



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 02:10 AM UTC

PDB ID : 6TBA / pdb_00006tba
EMDB ID : EMD-10443
Title : Virion of native gene transfer agent (GTA) particle
Authors : Bardy, P.; Fuzik, T.; Hrebik, D.; Pantucek, R.; Beatty, J.T.; Plevka, P.
Deposited on : 2019-11-01
Resolution : 4.54 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

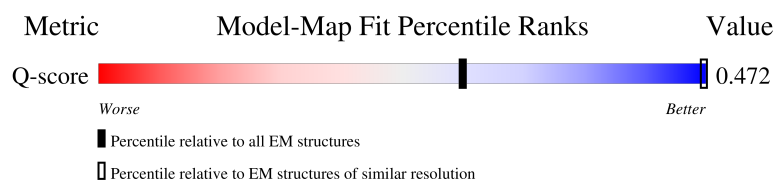
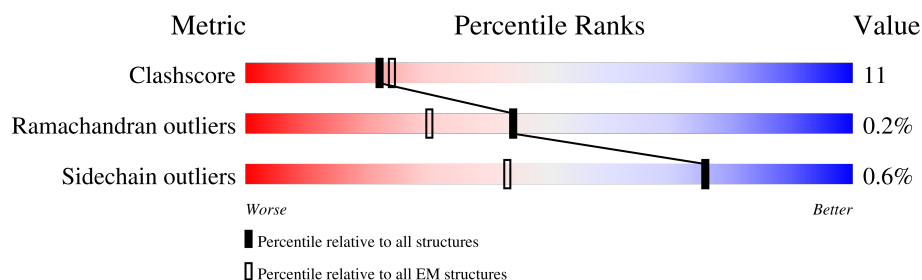
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.54 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.



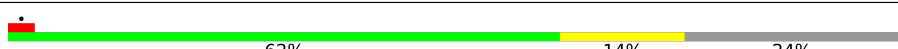
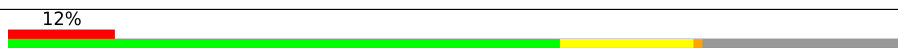
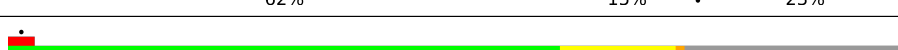
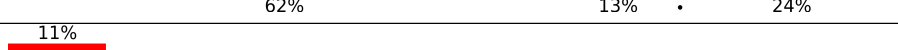
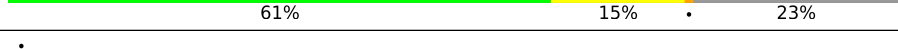
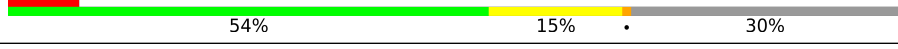
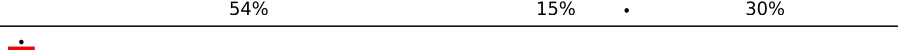
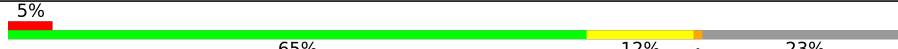
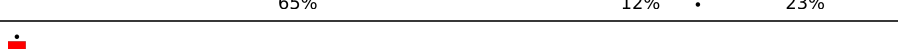
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	2475 (4.04 - 5.04)

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

Mol	Chain	Length	Quality of chain
1	A4	385	 13% 62% 14% 24%
1	A5	385	 13% 62% 15% 23%
1	A9	385	 13% 62% 13% 24%
1	AA	385	 13% 61% 15% 23%

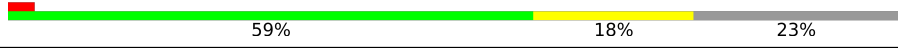
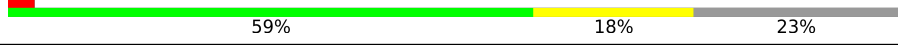
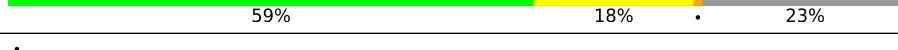
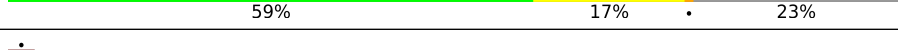
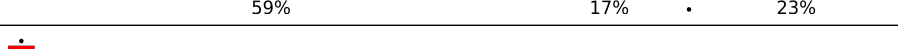
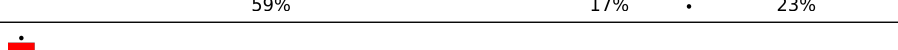
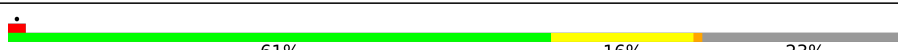
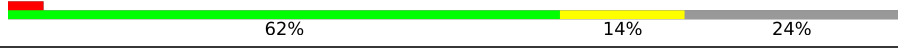
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Mol	Chain	Length	Quality of chain
1	AE	385	
1	AF	385	
1	AJ	385	
1	AK	385	
1	AO	385	
1	AP	385	
1	B4	385	
1	B5	385	
1	B9	385	
1	BA	385	
1	BE	385	
1	BF	385	
1	BJ	385	
1	BK	385	
1	BO	385	
1	BP	385	
1	C4	385	
1	C5	385	
1	C9	385	
1	CA	385	
1	CE	385	
1	CF	385	
1	CJ	385	
1	CK	385	
1	CO	385	

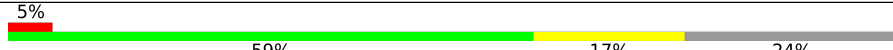
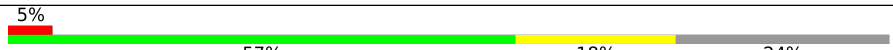
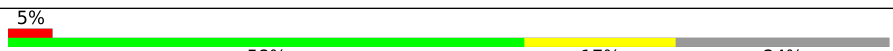
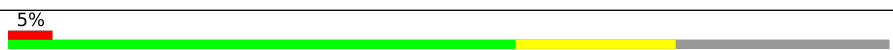
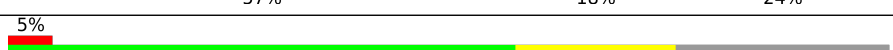
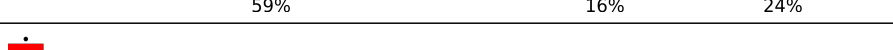
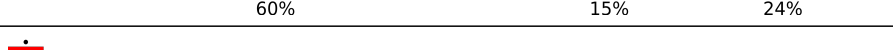
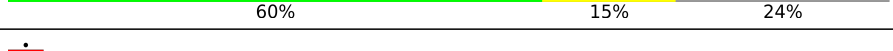
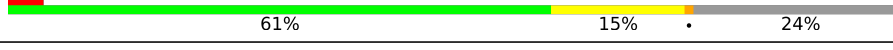
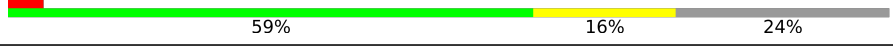
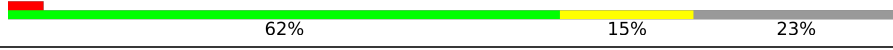
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Mol	Chain	Length	Quality of chain
1	CP	385	
1	D4	385	
1	D9	385	
1	DE	385	
1	DJ	385	
1	DO	385	
1	E4	385	
1	E9	385	
1	EE	385	
1	EJ	385	
1	EO	385	
1	F4	385	
1	F9	385	
1	FE	385	
1	FJ	385	
1	FO	385	
1	G4	385	
1	G9	385	
1	GE	385	
1	GJ	385	
1	GO	385	
1	H4	385	
1	H9	385	
1	HE	385	
1	HJ	385	

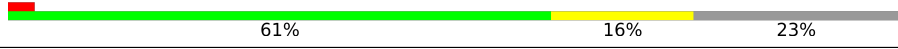
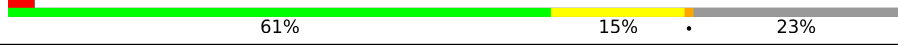
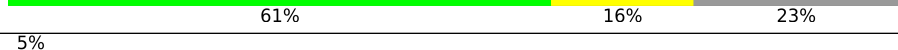
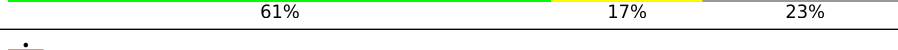
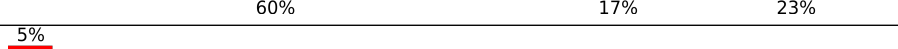
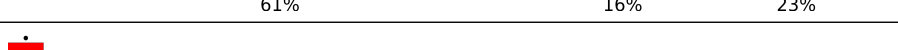
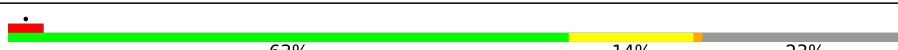
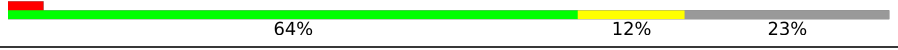
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Mol	Chain	Length	Quality of chain
1	HO	385	
1	I4	385	
1	I9	385	
1	IE	385	
1	IJ	385	
1	IO	385	
1	J4	385	
1	J9	385	
1	JE	385	
1	JJ	385	
1	JO	385	
1	K4	385	
1	K9	385	
1	KE	385	
1	KJ	385	
1	KO	385	
1	L4	385	
1	L9	385	
1	LE	385	
1	LJ	385	
1	LO	385	
1	M4	385	
1	M9	385	
1	ME	385	
1	MJ	385	

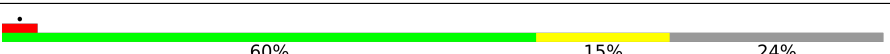
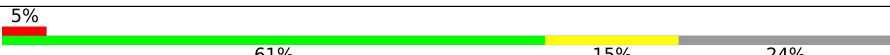
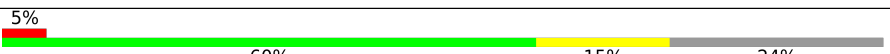
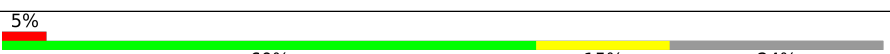
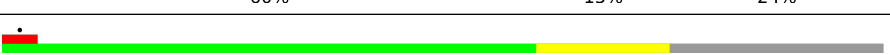
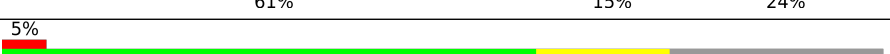
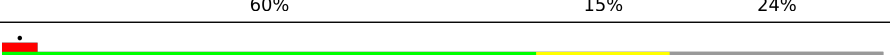
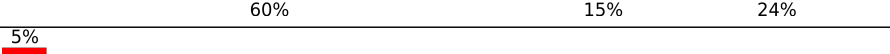
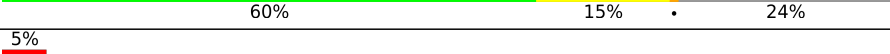
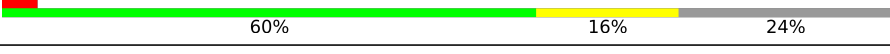
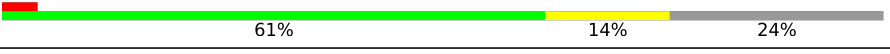
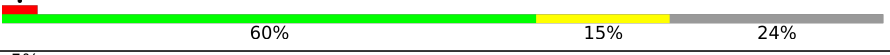
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Mol	Chain	Length	Quality of chain
1	MO	385	
1	N4	385	
1	N9	385	
1	NE	385	
1	NJ	385	
1	NO	385	
1	O4	385	
1	O9	385	
1	OE	385	
1	OJ	385	
1	OO	385	
1	P4	385	
1	P9	385	
1	PE	385	
1	PJ	385	
1	PO	385	
1	Q4	385	
1	Q9	385	
1	QE	385	
1	QJ	385	
1	QO	385	
1	R4	385	
1	R9	385	
1	RE	385	
1	RJ	385	

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Mol	Chain	Length	Quality of chain
1	RO	385	
1	S4	385	
1	S9	385	
1	SE	385	
1	SJ	385	
1	SO	385	
1	T4	385	
1	T9	385	
1	TE	385	
1	TJ	385	
1	TO	385	
1	U4	385	
1	U9	385	
1	UE	385	
1	UJ	385	
1	UO	385	
1	V4	385	
1	V9	385	
1	VE	385	
1	VJ	385	
1	VO	385	
1	W4	385	
1	W9	385	
1	WE	385	
1	WJ	385	

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Mol	Chain	Length	Quality of chain
1	WO	385	
1	X4	385	
1	X9	385	
1	XE	385	
1	XJ	385	
1	XO	385	
1	Y4	385	
1	Y9	385	
1	YE	385	
1	YJ	385	
1	YO	385	
1	Z4	385	
1	Z9	385	
1	ZE	385	
1	ZJ	385	
1	ZO	385	
2	A1	84	
2	A2	84	
2	A3	84	
2	A6	84	
2	A7	84	
2	A8	84	
2	AB	84	
2	AC	84	
2	AD	84	

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Mol	Chain	Length	Quality of chain
2	AG	84	7% 65% 35%
2	AH	84	17% 64% 36%
2	AI	84	29% 69% 31%
2	AL	84	7% 67% 33%
2	AM	84	18% 65% 35%
2	AN	84	23% 69% 31%
2	B2	84	17% 65% 35%
2	B3	84	19% 65% 35%
2	B7	84	19% 68% 32%
2	B8	84	21% 65% 35%
2	BC	84	18% 67% 33%
2	BD	84	20% 65% 35%
2	BH	84	17% 67% 33%
2	BI	84	21% 65% 35%
2	BM	84	19% 67% 33%
2	BN	84	21% 65% 35%
2	C2	84	24% 68% 32%
2	C3	84	21% 68% 32%
2	C7	84	21% 69% 31%
2	C8	84	26% 68% 32%
2	CC	84	20% 67% 33%
2	CD	84	24% 68% 32%
2	CH	84	20% 67% 33%
2	CI	84	21% 68% 32%
2	CM	84	21% 68% 32%

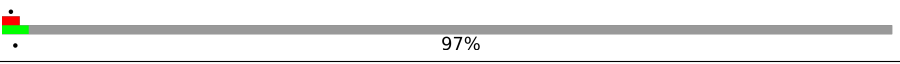
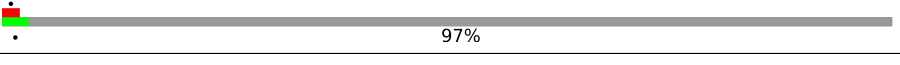
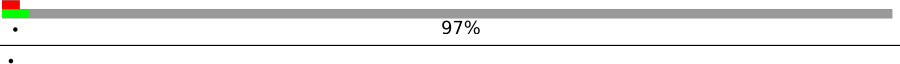
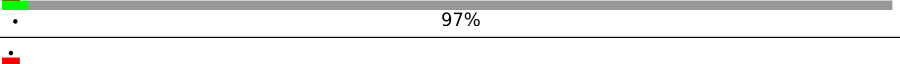
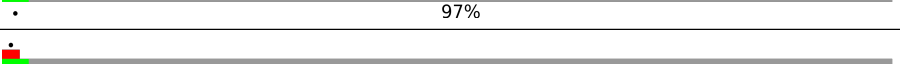
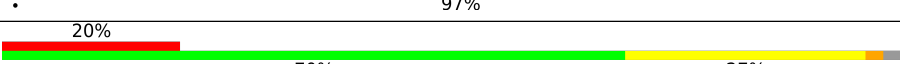
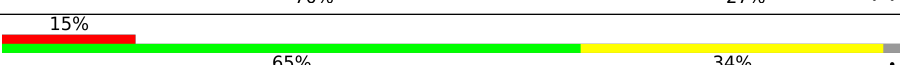
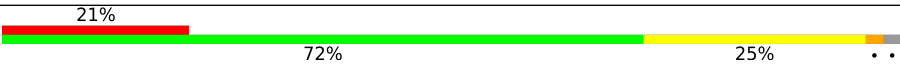
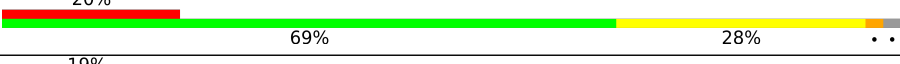
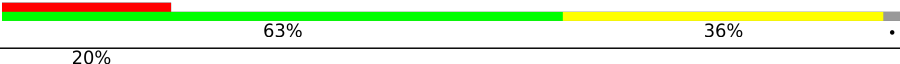
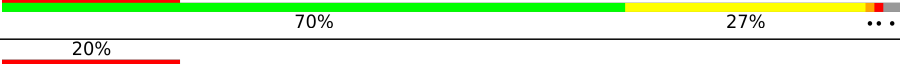
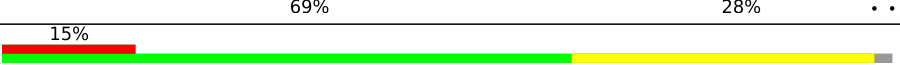
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Mol	Chain	Length	Quality of chain
2	CN	84	
2	D2	84	
2	D3	84	
2	D7	84	
2	D8	84	
2	DC	84	
2	DD	84	
2	DH	84	
2	DI	84	
2	DM	84	
2	DN	84	
2	E2	84	
2	E3	84	
2	E7	84	
2	E8	84	
2	EC	84	
2	ED	84	
2	EH	84	
2	EI	84	
2	EM	84	
2	EN	84	
3	F2	325	
3	F3	325	
3	F7	325	
3	F8	325	

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Mol	Chain	Length	Quality of chain
3	FC	325	 97%
3	FD	325	 97%
3	FH	325	 97%
3	FI	325	 97%
3	FM	325	 97%
3	FN	325	 97%
4	2A	197	 20% 70% 27% ..
4	2B	197	 15% 65% 34% .
4	2C	197	 21% 72% 25% ..
4	2D	197	 17% 65% 34% .
4	2E	197	 20% 69% 28% ..
4	2F	197	 19% 63% 36% .
4	2G	197	 20% 70% 27% ...
4	2H	197	 20% 64% 35% .
4	2I	197	 20% 69% 28% ..
4	2J	197	 15% 64% 34% .
4	2K	197	 18% 71% 26% ..
4	2L	197	 16% 65% 34% .
5	1A	396	 15% 73% 17% . 9%
5	1B	396	 17% 73% 18% 9%
5	1C	396	 18% 73% 17% . 9%
5	1D	396	 18% 72% 18% 9%
5	1E	396	 20% 72% 18% . 9%
5	1F	396	 20% 71% 19% 9%
5	1G	396	 19% 72% 18% . 9%

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Mol	Chain	Length	Quality of chain
5	1H	396	
5	1I	396	
5	1J	396	
5	1K	396	
5	1L	396	
6	4A	135	
6	4B	135	
6	4C	135	
6	4D	135	
6	4E	135	
6	4F	135	
7	3A	112	
7	3B	112	
7	3C	112	
7	3D	112	
7	3E	112	
7	3F	112	
8	50	137	
8	51	137	
8	52	137	
8	53	137	
8	5A	137	
8	5B	137	
8	5C	137	
8	5D	137	

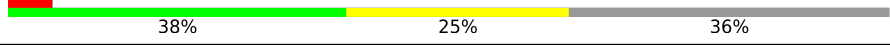
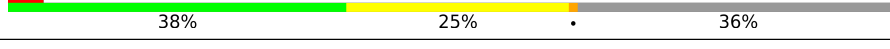
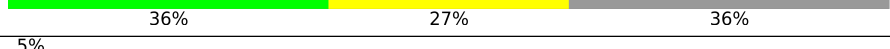
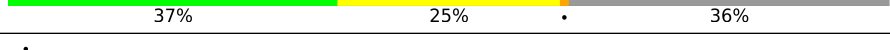
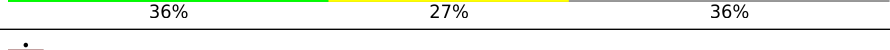
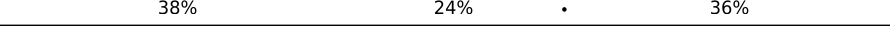
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Mol	Chain	Length	Quality of chain
8	5E	137	
8	5F	137	
8	5G	137	
8	5H	137	
8	5I	137	
8	5J	137	
8	5K	137	
8	5L	137	
8	5M	137	
8	5N	137	
8	5O	137	
8	5P	137	
8	5Q	137	
8	5R	137	
8	5S	137	
8	5T	137	
8	5U	137	
8	5V	137	
8	5W	137	
8	5X	137	
8	5Y	137	
8	5Z	137	
9	7A	296	
9	7B	296	
9	7C	296	

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Mol	Chain	Length	Quality of chain
10	8A	1304	
10	8B	1304	
10	8C	1304	
11	6A	210	
11	6B	210	
11	6C	210	
11	6D	210	
11	6E	210	
11	6F	210	

2 Entry composition

There are 12 unique types of molecules in this entry. The entry contains 465916 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 Phage major capsid protein, HK97 family.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	C5	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	X4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	Y4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	Z4	297	Total	C	N	O	S	0	0
			2207	1399	377	425	6		
1	A5	297	Total	C	N	O	S	0	0
			2199	1394	377	422	6		
1	B5	271	Total	C	N	O	S	0	0
			2009	1278	342	383	6		
1	N4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	R4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	M4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	Q4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	O4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	P4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	W4	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	U4	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	T4	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	S4	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	K4	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	J4	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	V4	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	L4	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	H4	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	I4	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	A4	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	D4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	E4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	F4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	G4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	B4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	C4	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	CP	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	XO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	YO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	ZO	297	Total	C	N	O	S	0	0
			2207	1399	377	425	6		
1	AP	297	Total	C	N	O	S	0	0
			2201	1396	377	422	6		
1	BP	271	Total	C	N	O	S	0	0
			2009	1280	342	381	6		
1	NO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	RO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	MO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	QO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	OO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	PO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	WO	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	UO	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	TO	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	SO	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	KO	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	JO	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	VO	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	LO	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	HO	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	IO	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	AO	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	DO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	EO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	FO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	GO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	BO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	CO	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	CK	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	XJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	YJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	ZJ	297	Total	C	N	O	S	0	0
			2207	1399	377	425	6		
1	AK	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	BK	271	Total	C	N	O	S	0	0
			2009	1278	342	383	6		
1	NJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	RJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	MJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	QJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	OJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	PJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	WJ	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	UJ	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	TJ	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	SJ	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	KJ	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	JJ	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	VJ	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	LJ	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	HJ	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	IJ	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AJ	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	DJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	EJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	FJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	GJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	BJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	CJ	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	CF	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	XE	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	YE	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	ZE	297	Total	C	N	O	S	0	0
			2207	1399	377	425	6		
1	AF	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	BF	271	Total	C	N	O	S	0	0
			2015	1283	344	382	6		
1	NE	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	RE	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	ME	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	QE	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	OE	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	PE	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	WE	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	UE	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	TE	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	SE	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	KE	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	JE	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	VE	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	LE	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	HE	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	IE	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	AE	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	DE	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	EE	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	FE	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	GE	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	BE	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	CE	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	CA	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	X9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	Y9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	Z9	297	Total	C	N	O	S	0	0
			2207	1399	377	425	6		
1	AA	297	Total	C	N	O	S	0	0
			2205	1398	377	424	6		
1	BA	271	Total	C	N	O	S	0	0
			2014	1281	344	383	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	N9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	R9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	M9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	Q9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	O9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	P9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	W9	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	U9	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	T9	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	S9	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	K9	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	J9	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	V9	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	L9	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	H9	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	I9	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	A9	291	Total	C	N	O	S	0	0
			2173	1379	371	417	6		
1	D9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	E9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	F9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	G9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	B9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		
1	C9	297	Total	C	N	O	S	0	0
			2209	1400	377	426	6		

- Molecule 2 is a protein called Uncharacterized protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	E3	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	D3	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	A3	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	C3	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	B3	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	A1	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	E2	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	D2	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	A2	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	C2	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	B2	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	EN	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	DN	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	AN	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	CN	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	BN	84	Total	C	N	O	S	0	0
			640	403	115	121	1		
2	AL	84	Total	C	N	O	S	0	0
			640	403	115	121	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	EM	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	DM	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	AM	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	CM	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	BM	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	EI	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	DI	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	AI	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	CI	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	BI	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	AG	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	EH	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	DH	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	AH	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	CH	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	BH	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	ED	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	DD	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	AD	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	CD	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	BD	84	Total 640	C 403	N 115	O 121	S 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	AB	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	EC	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	DC	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	AC	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	CC	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	BC	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	E8	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	D8	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	A8	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	C8	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	B8	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	A6	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	E7	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	D7	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	A7	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	C7	84	Total 640	C 403	N 115	O 121	S 1	0	0
2	B7	84	Total 640	C 403	N 115	O 121	S 1	0	0

- Molecule 3 is a protein called Uncharacterized protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	F3	10	Total 62	C 42	N 10	O 10	0	0
3	F2	10	Total 62	C 42	N 10	O 10	0	0

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Mol	Chain	Residues	Atoms				AltConf	Trace
3	FN	10	Total	C	N	O	0	0
			62	42	10	10		
3	FM	10	Total	C	N	O	0	0
			62	42	10	10		
3	FI	10	Total	C	N	O	0	0
			62	42	10	10		
3	FH	10	Total	C	N	O	0	0
			62	42	10	10		
3	FD	10	Total	C	N	O	0	0
			62	42	10	10		
3	FC	10	Total	C	N	O	0	0
			62	42	10	10		
3	F8	10	Total	C	N	O	0	0
			62	42	10	10		
3	F7	10	Total	C	N	O	0	0
			62	42	10	10		

- Molecule 4 is a protein called Uncharacterized protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	2A	194	Total	C	N	O	S	0	0
			1450	931	259	253	7		
4	2B	194	Total	C	N	O	S	0	0
			1453	933	259	253	8		
4	2K	194	Total	C	N	O	S	0	0
			1448	929	259	253	7		
4	2L	194	Total	C	N	O	S	0	0
			1456	936	259	253	8		
4	2I	194	Total	C	N	O	S	0	0
			1450	931	259	253	7		
4	2J	194	Total	C	N	O	S	0	0
			1456	936	259	253	8		
4	2G	194	Total	C	N	O	S	0	0
			1447	929	259	253	6		
4	2H	194	Total	C	N	O	S	0	0
			1453	934	259	253	7		
4	2E	194	Total	C	N	O	S	0	0
			1450	931	259	253	7		
4	2F	194	Total	C	N	O	S	0	0
			1456	936	259	253	8		
4	2C	194	Total	C	N	O	S	0	0
			1450	931	259	253	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	2D	194	Total	C	N	O	S	0	0
			1456	936	259	253	8		

- Molecule 5 is a protein called Portal protein Rcc01684.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	1A	360	Total	C	N	O	S	0	0
			2714	1729	483	490	12		
5	1B	360	Total	C	N	O	S	0	0
			2723	1734	486	490	13		
5	1K	360	Total	C	N	O	S	0	0
			2717	1731	483	490	13		
5	1L	360	Total	C	N	O	S	0	0
			2717	1731	483	490	13		
5	1I	360	Total	C	N	O	S	0	0
			2717	1731	483	490	13		
5	1J	360	Total	C	N	O	S	0	0
			2717	1731	483	490	13		
5	1G	360	Total	C	N	O	S	0	0
			2723	1734	486	490	13		
5	1H	360	Total	C	N	O	S	0	0
			2717	1731	483	490	13		
5	1E	360	Total	C	N	O	S	0	0
			2717	1731	483	490	13		
5	1F	360	Total	C	N	O	S	0	0
			2717	1731	483	490	13		
5	1C	360	Total	C	N	O	S	0	0
			2711	1728	480	490	13		
5	1D	360	Total	C	N	O	S	0	0
			2720	1732	486	490	12		

- Molecule 6 is a protein called Uncharacterized protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	4A	134	Total	C	N	O	S	0	0
			968	613	174	180	1		
6	4F	134	Total	C	N	O	S	0	0
			968	613	174	180	1		
6	4E	134	Total	C	N	O	S	0	0
			968	613	174	180	1		
6	4D	134	Total	C	N	O	S	0	0
			968	613	174	180	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	4C	134	Total	C	N	O	S	0	0
			968	613	174	180	1		
6	4B	134	Total	C	N	O	S	0	0
			968	613	174	180	1		

- Molecule 7 is a protein called Uncharacterized protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	3A	110	Total	C	N	O	S	0	0
			859	536	171	151	1		
7	3F	110	Total	C	N	O	S	0	0
			859	536	171	151	1		
7	3E	110	Total	C	N	O	S	0	0
			859	536	171	151	1		
7	3D	110	Total	C	N	O	S	0	0
			859	536	171	151	1		
7	3C	110	Total	C	N	O	S	0	0
			859	536	171	151	1		
7	3B	110	Total	C	N	O	S	0	0
			859	536	171	151	1		

- Molecule 8 is a protein called Phage major tail protein, TP901-1 family.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	5A	130	Total	C	N	O	S	0	0
			972	612	163	195	2		
8	5S	130	Total	C	N	O	S	0	0
			972	612	163	195	2		
8	5G	130	Total	C	N	O	S	0	0
			972	612	163	195	2		
8	5M	130	Total	C	N	O	S	0	0
			972	612	163	195	2		
8	5F	130	Total	C	N	O	S	0	0
			972	612	163	195	2		
8	5X	130	Total	C	N	O	S	0	0
			972	612	163	195	2		
8	5L	130	Total	C	N	O	S	0	0
			972	612	163	195	2		
8	5R	130	Total	C	N	O	S	0	0
			972	612	163	195	2		
8	5E	130	Total	C	N	O	S	0	0
			972	612	163	195	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	5W	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5K	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5Q	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5D	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5V	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5J	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5P	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5C	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5U	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5I	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5O	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5B	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5T	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5H	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5N	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5Y	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	5Z	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	52	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	53	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	50	130	Total 972	C 612	N 163	O 195	S 2	0	0
8	51	130	Total 972	C 612	N 163	O 195	S 2	0	0

- Molecule 9 is a protein called Uncharacterized protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	7A	292	Total	C	N	O	S	0	0
			2179	1369	395	408	7		
9	7C	292	Total	C	N	O	S	0	0
			2179	1369	395	408	7		
9	7B	292	Total	C	N	O	S	0	0
			2179	1369	395	408	7		

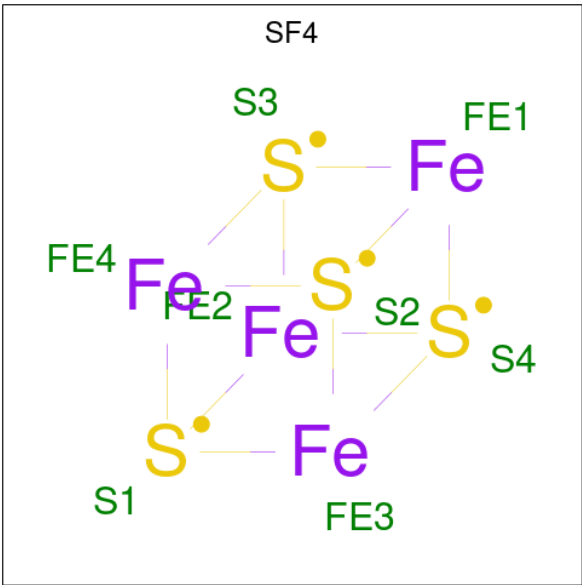
- Molecule 10 is a protein called Uncharacterized protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	8A	439	Total	C	N	O	S	0	0
			3246	2028	590	621	7		
10	8C	439	Total	C	N	O	S	0	0
			3246	2028	590	621	7		
10	8B	439	Total	C	N	O	S	0	0
			3246	2028	590	621	7		

- Molecule 11 is a protein called Uncharacterized protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
11	6B	134	Total	C	N	O	0	0
			1056	665	198	193		
11	6A	134	Total	C	N	O	0	0
			1056	665	198	193		
11	6F	134	Total	C	N	O	0	0
			1056	665	198	193		
11	6E	134	Total	C	N	O	0	0
			1056	665	198	193		
11	6D	134	Total	C	N	O	0	0
			1056	665	198	193		
11	6C	134	Total	C	N	O	0	0
			1056	665	198	193		

- Molecule 12 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe₄S₄).

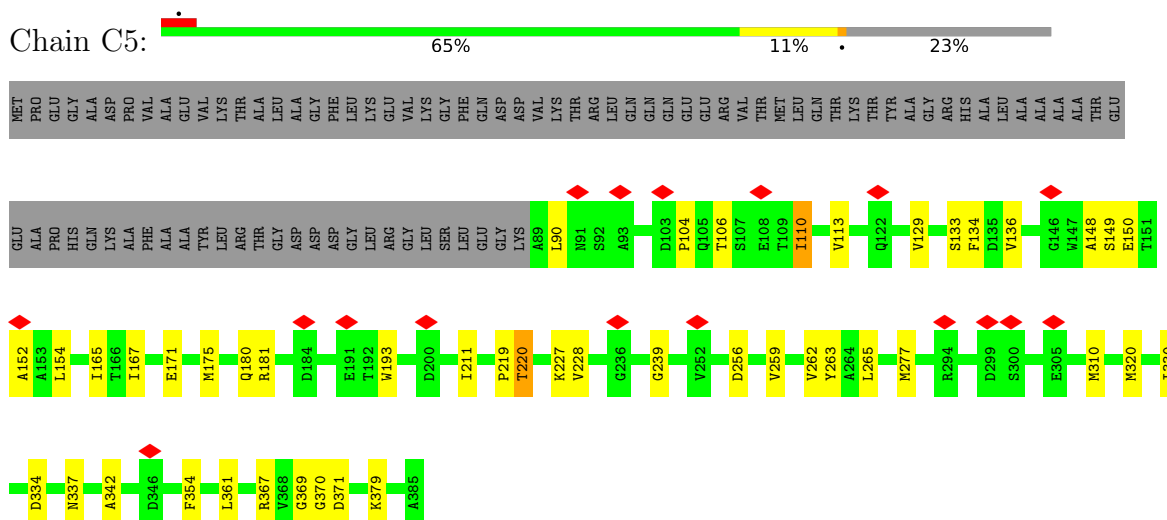


Mol	Chain	Residues	Atoms			AltConf
12	7A	1	Total	Fe	S	0
			8	4	4	
12	7C	1	Total	Fe	S	0
			8	4	4	
12	7B	1	Total	Fe	S	0
			8	4	4	

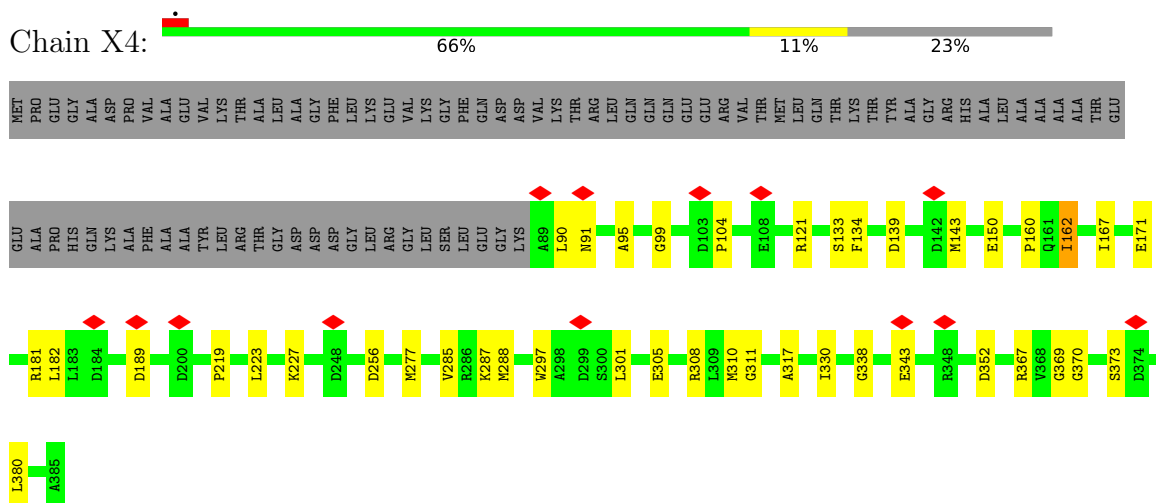
3 Residue-property plots

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

- Molecule 1: Phage major capsid protein, HK97 family

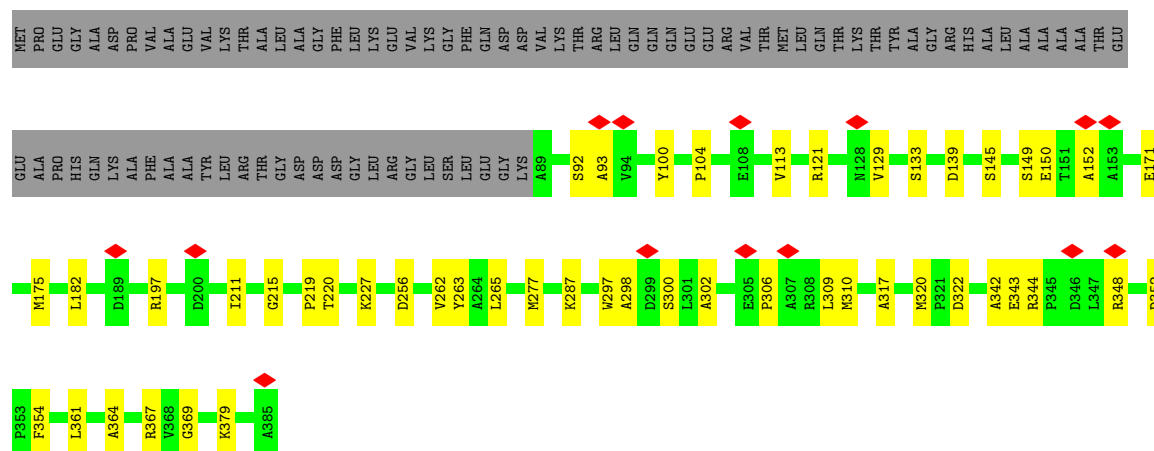


- Molecule 1: Phage major capsid protein, HK97 family



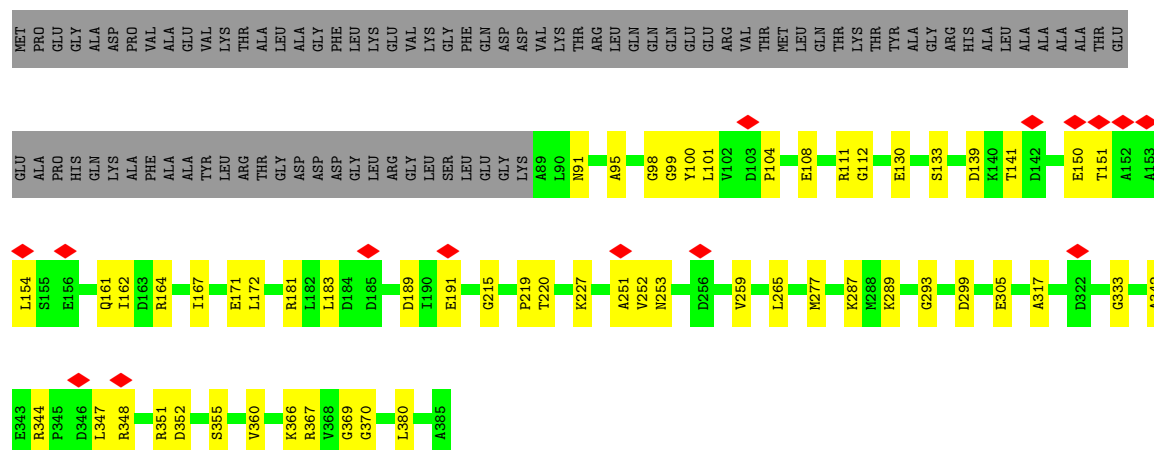
- Molecule 1: Phage major capsid protein, HK97 family





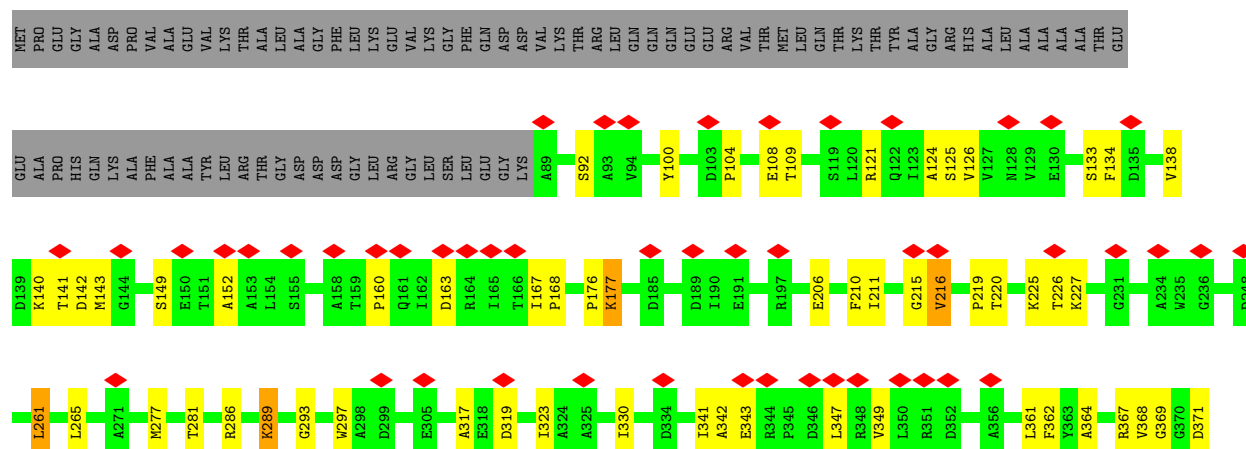
- Molecule 1: Phage major capsid protein, HK97 family

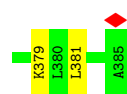
Chain Z4: 62% 15% 23%



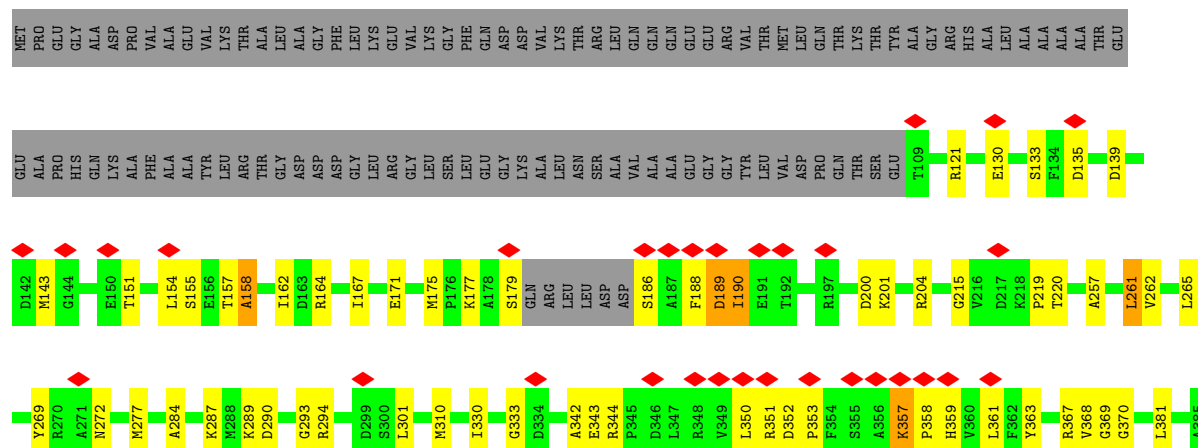
- Molecule 1: Phage major capsid protein, HK97 family

Chain A5: 13% 62% 15% 23%

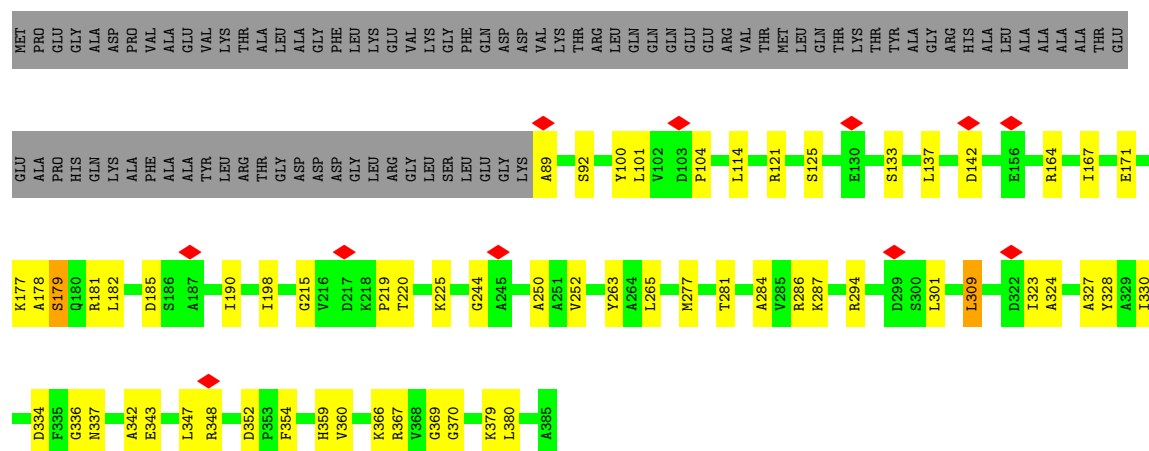




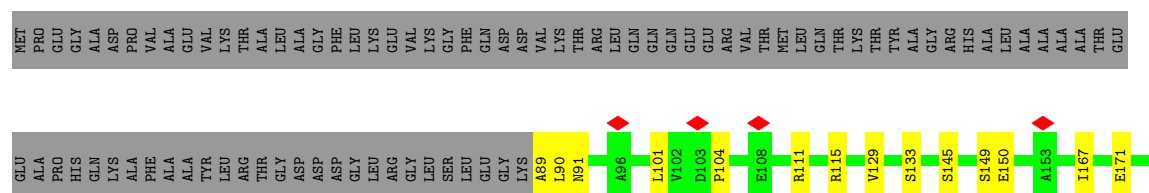
- Molecule 1: Phage major capsid protein, HK97 family

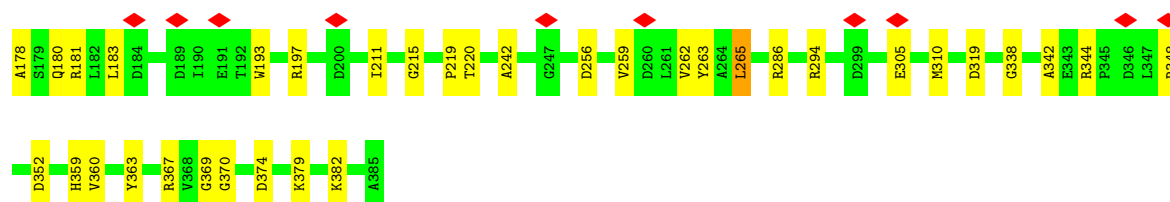


- Molecule 1: Phage major capsid protein, HK97 family



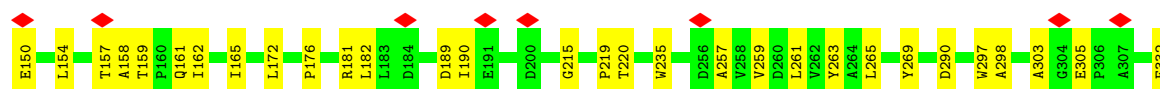
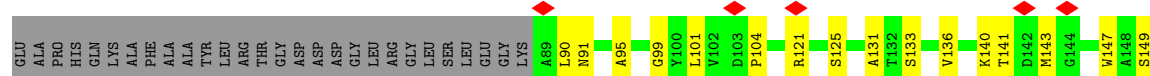
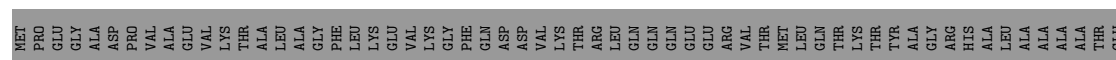
- Molecule 1: Phage major capsid protein, HK97 family





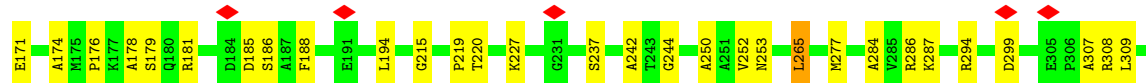
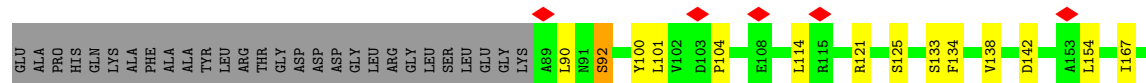
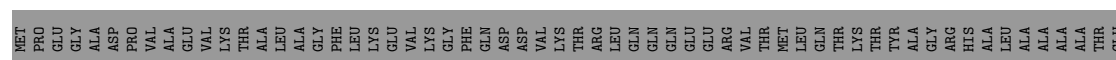
- Molecule 1: Phage major capsid protein, HK97 family

Chain M4: 62% 15% 23%



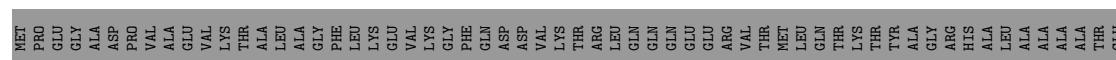
- Molecule 1: Phage major capsid protein, HK97 family

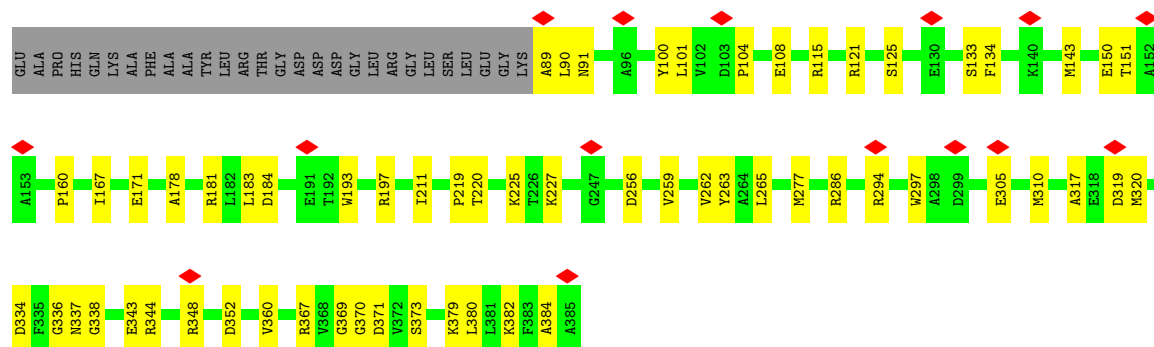
Chain Q4: 60% 16% 23%



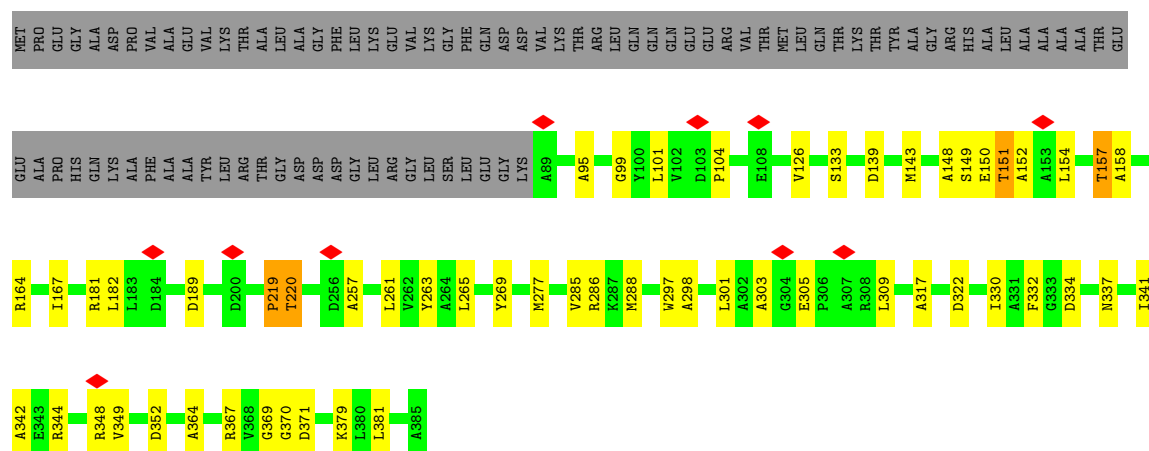
- Molecule 1: Phage major capsid protein, HK97 family

Chain O4: 61% 16% 23%

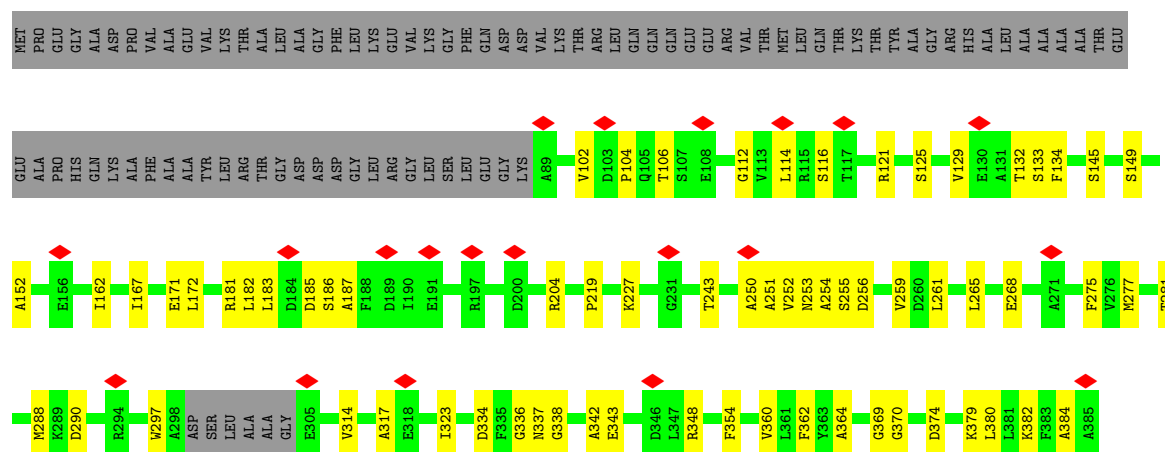




- Molecule 1: Phage major capsid protein, HK97 family

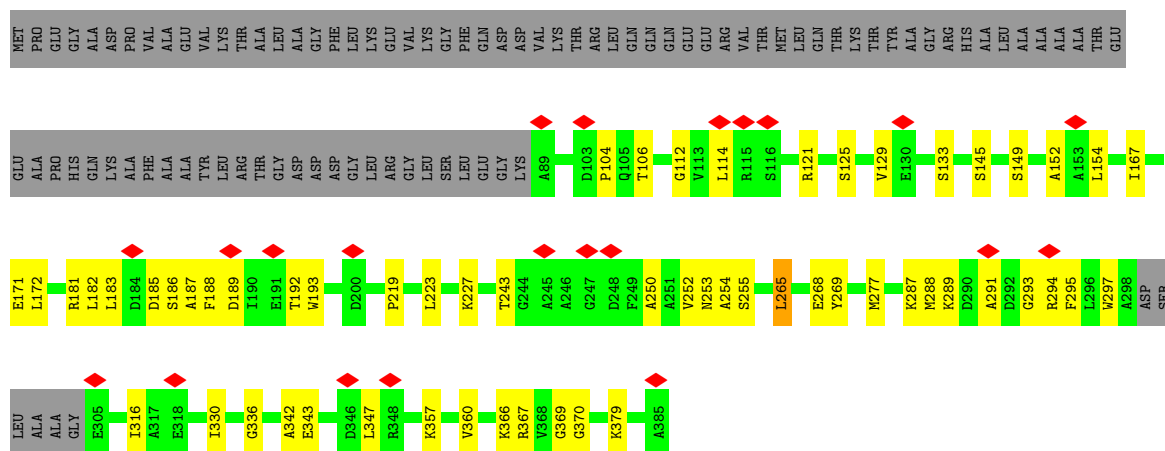


- Molecule 1: Phage major capsid protein, HK97 family

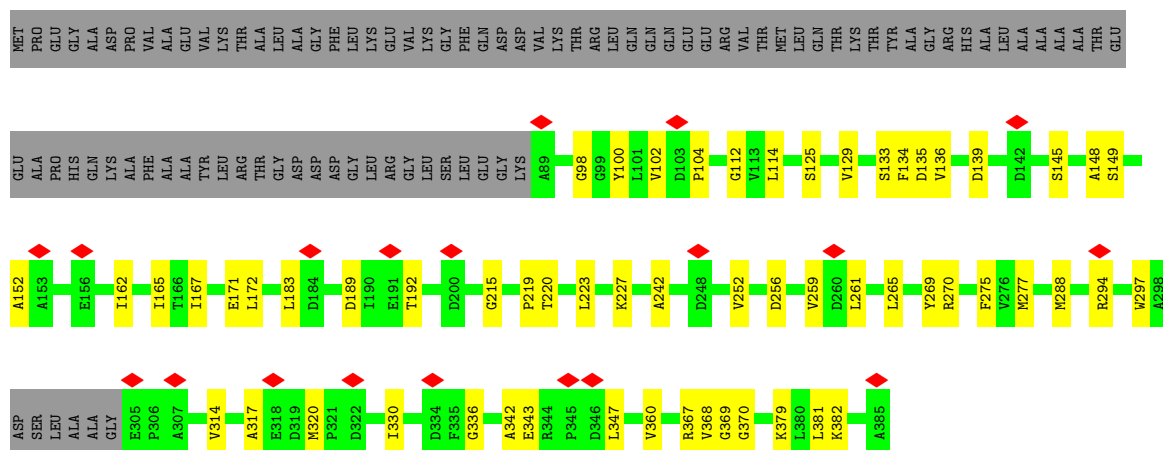


- Molecule 1: Phage major capsid protein, HK97 family

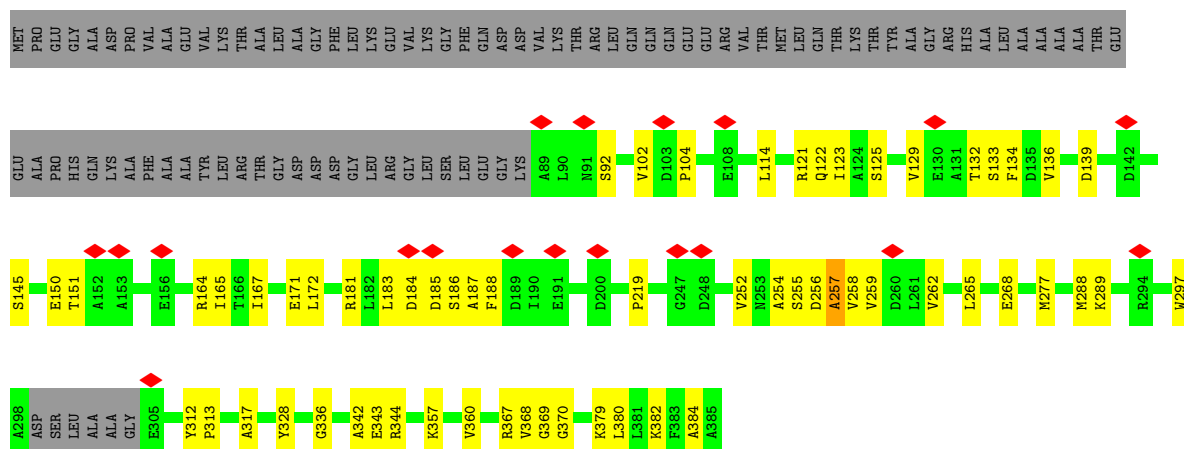




- Molecule 1: Phage major capsid protein, HK97 family

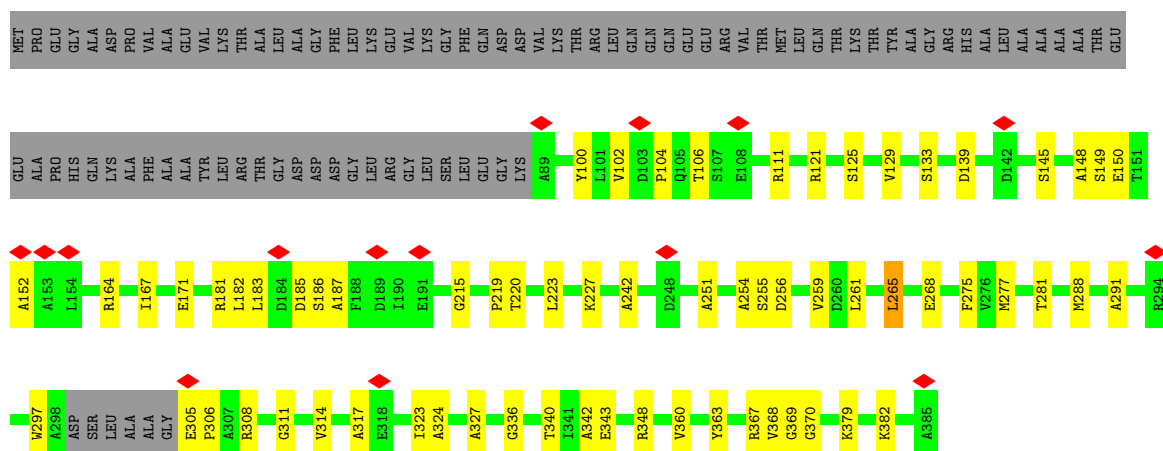


- Molecule 1: Phage major capsid protein, HK97 family



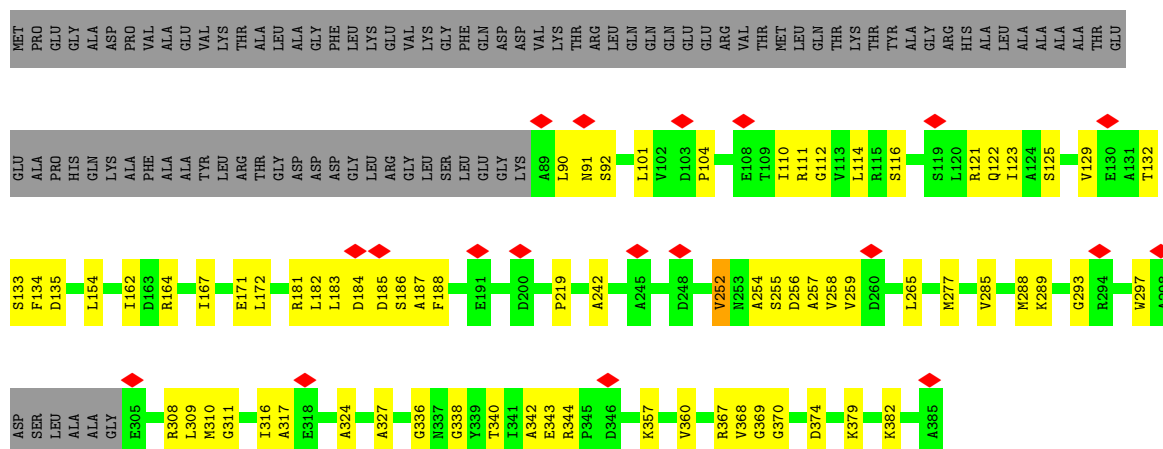
- Molecule 1: Phage major capsid protein, HK97 family

Chain K4: 



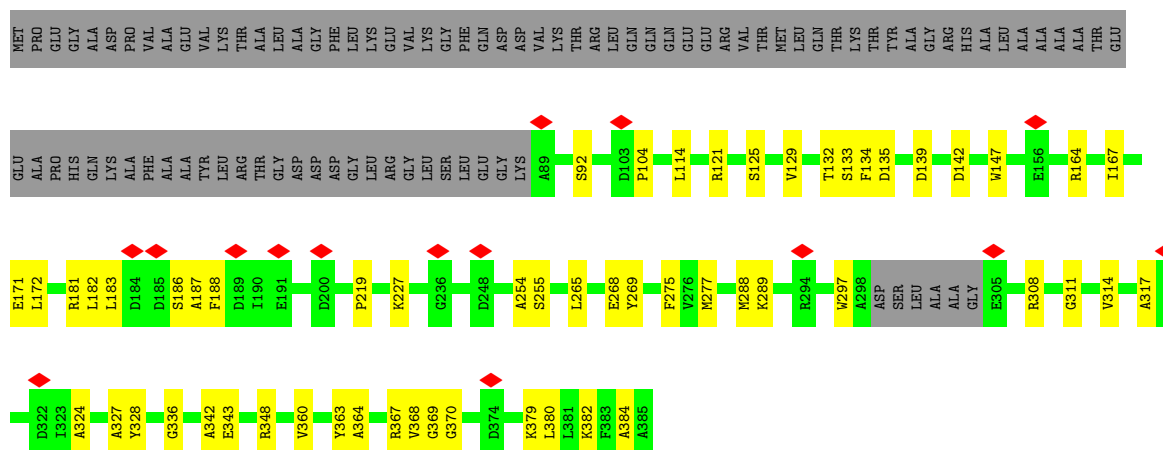
- Molecule 1: Phage major capsid protein, HK97 family

Chain J4: 



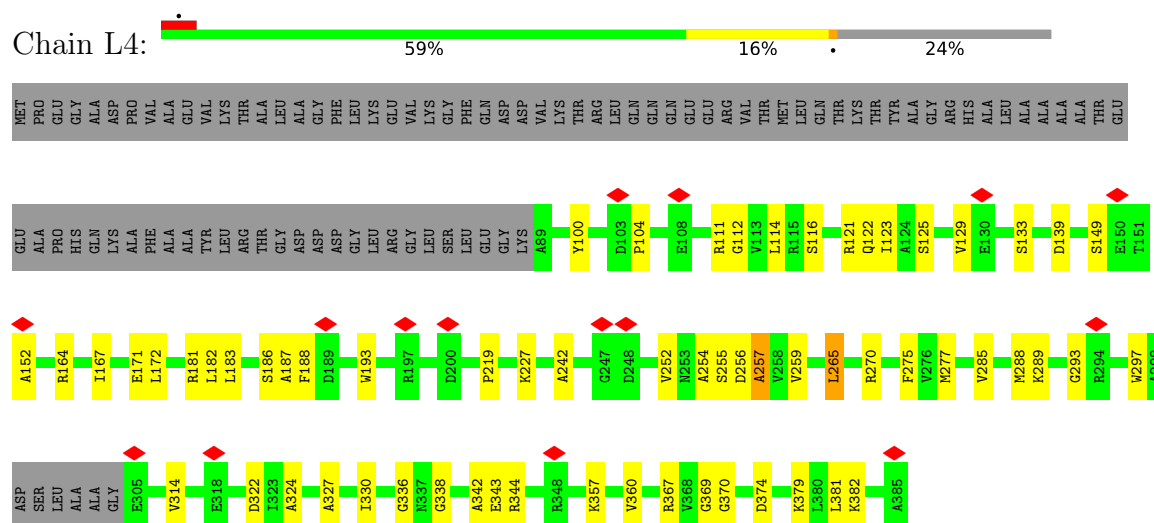
- Molecule 1: Phage major capsid protein, HK97 family

Chain V4: 



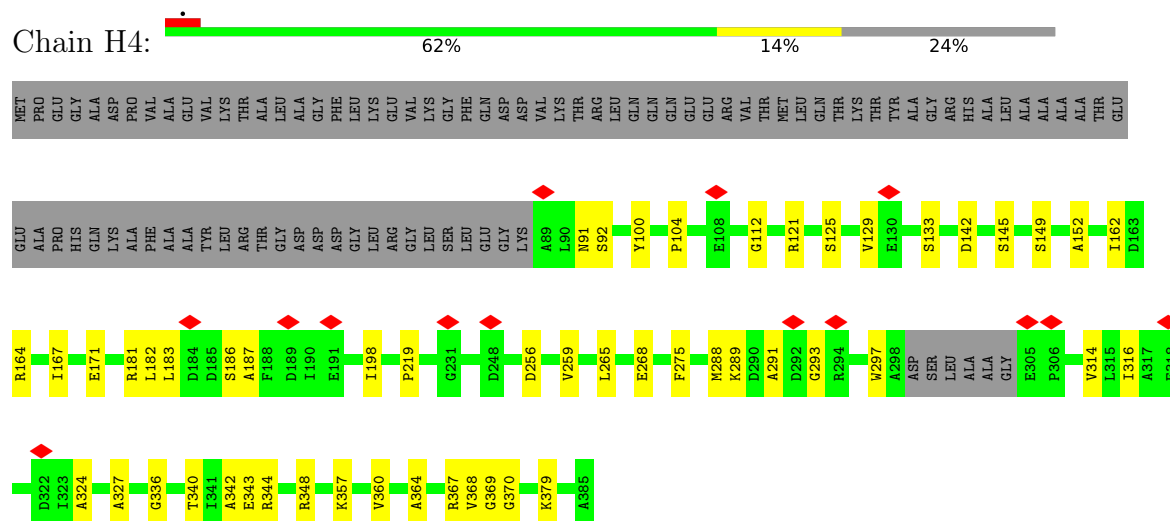
- Molecule 1: Phage major capsid protein, HK97 family

Chain L4:



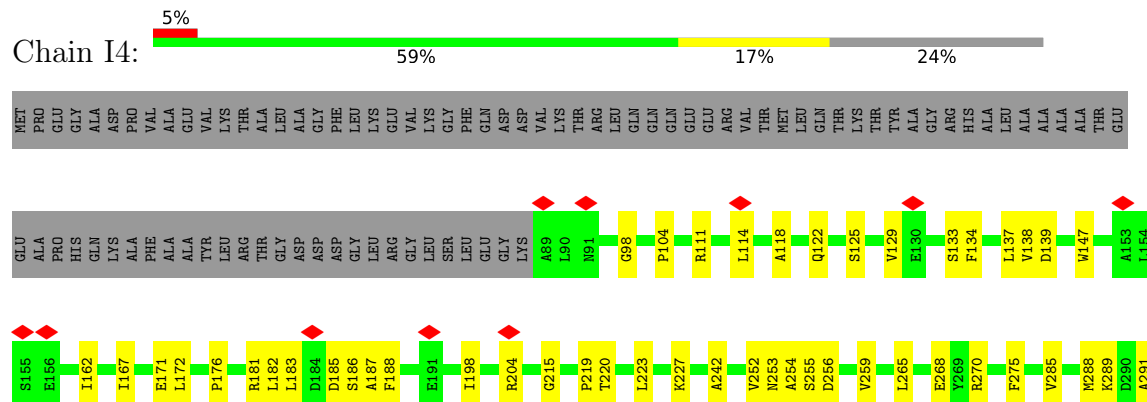
- Molecule 1: Phage major capsid protein, HK97 family

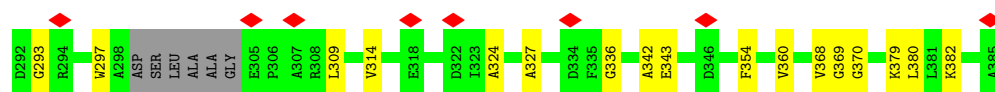
Chain H4:



- Molecule 1: Phage major capsid protein, HK97 family

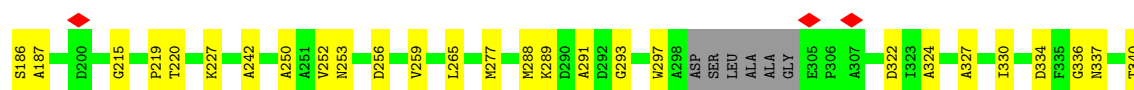
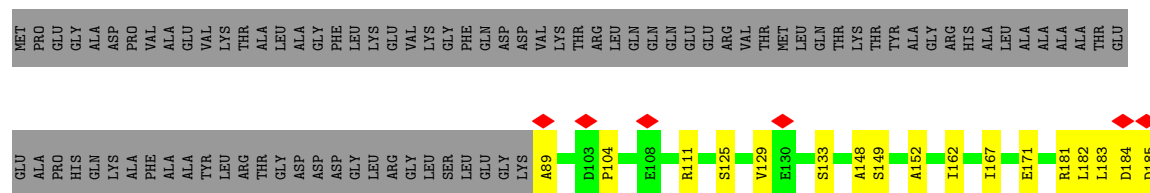
Chain I4:





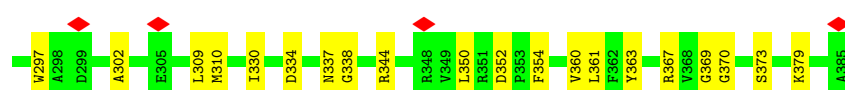
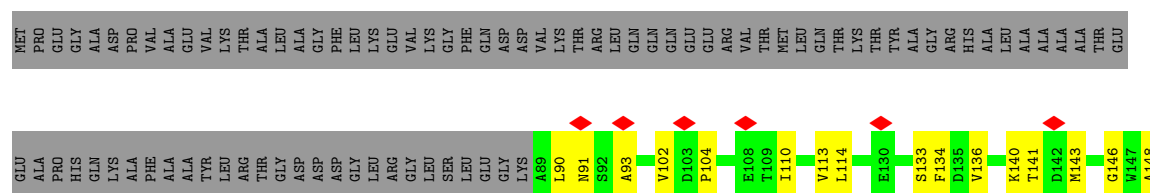
- Molecule 1: Phage major capsid protein, HK97 family

Chain A4: 62% 14% 24%



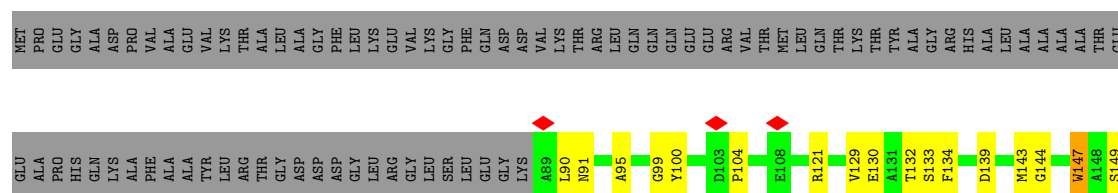
- Molecule 1: Phage major capsid protein, HK97 family

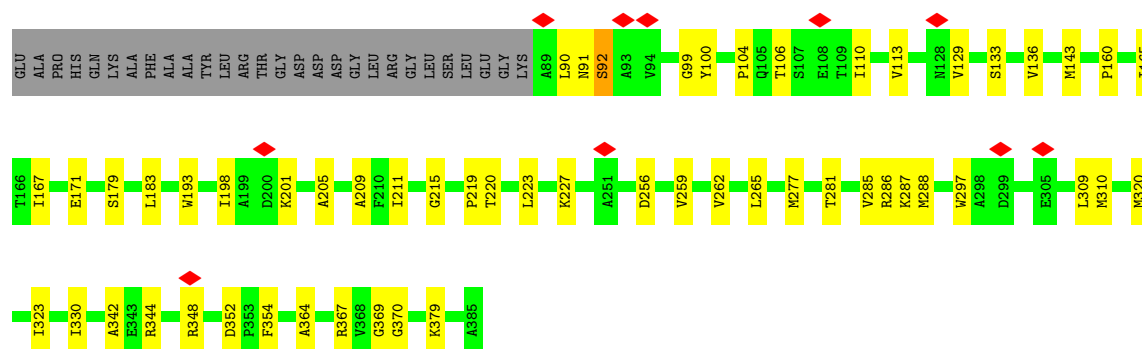
Chain D4: 59% 18% 23%



- Molecule 1: Phage major capsid protein, HK97 family

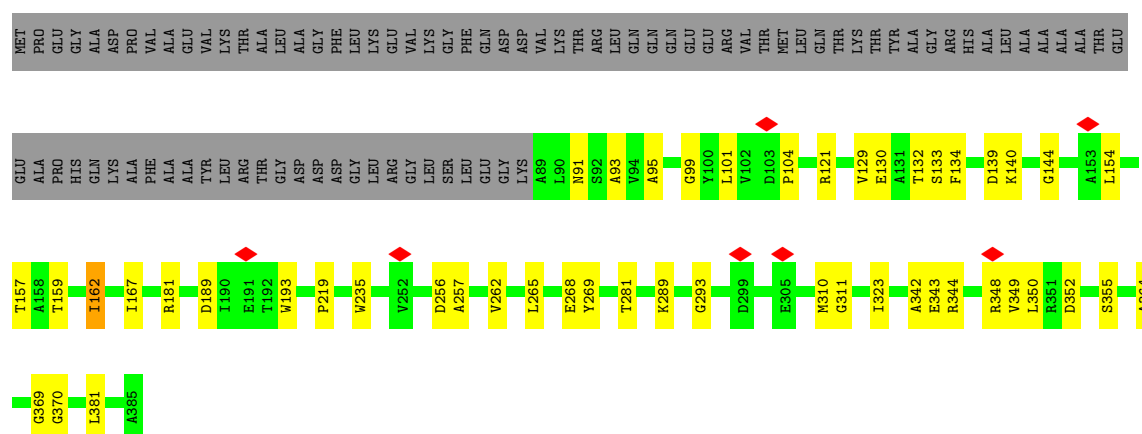
Chain E4: 59% 18% 23%





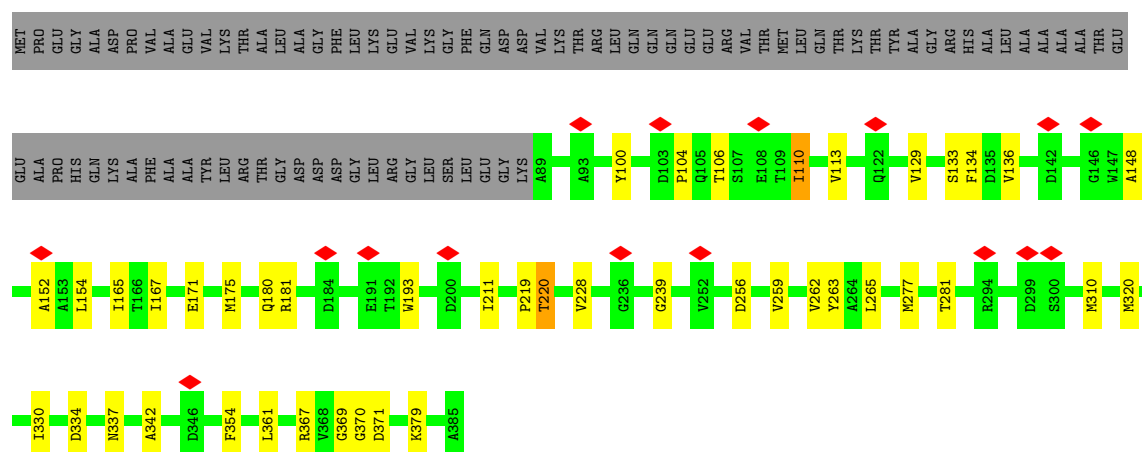
- Molecule 1: Phage major capsid protein, HK97 family

Chain C4: 64% 12% 23%



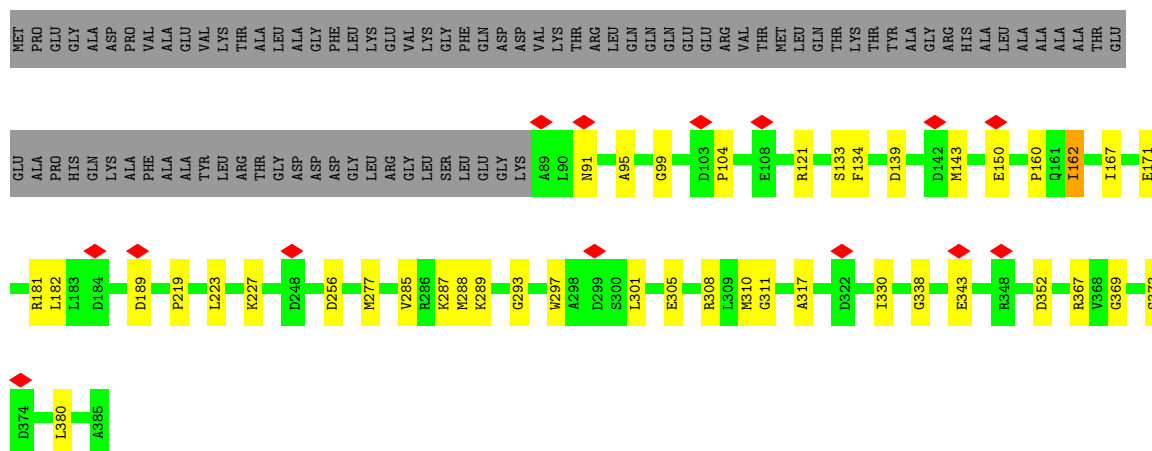
- Molecule 1: Phage major capsid protein, HK97 family

Chain CP: 65% 11% 23%



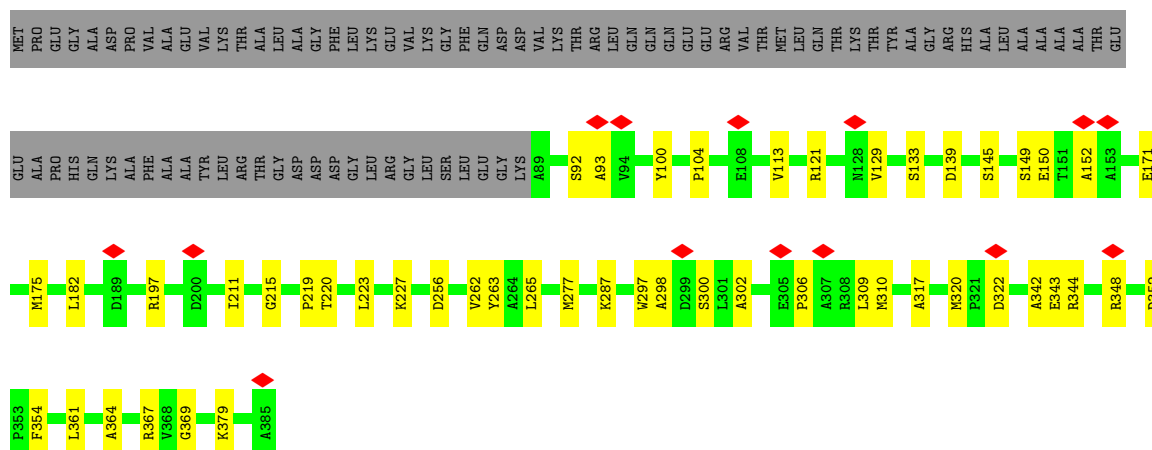
- Molecule 1: Phage major capsid protein, HK97 family

Chain XO: 66% 11% 23%



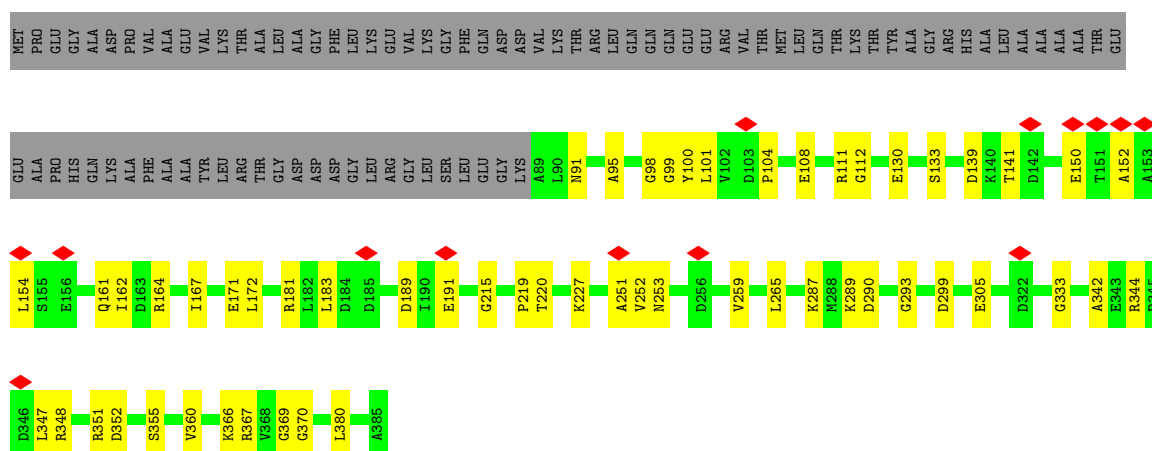
- Molecule 1: Phage major capsid protein, HK97 family

Chain YO: 64% 13% 23%

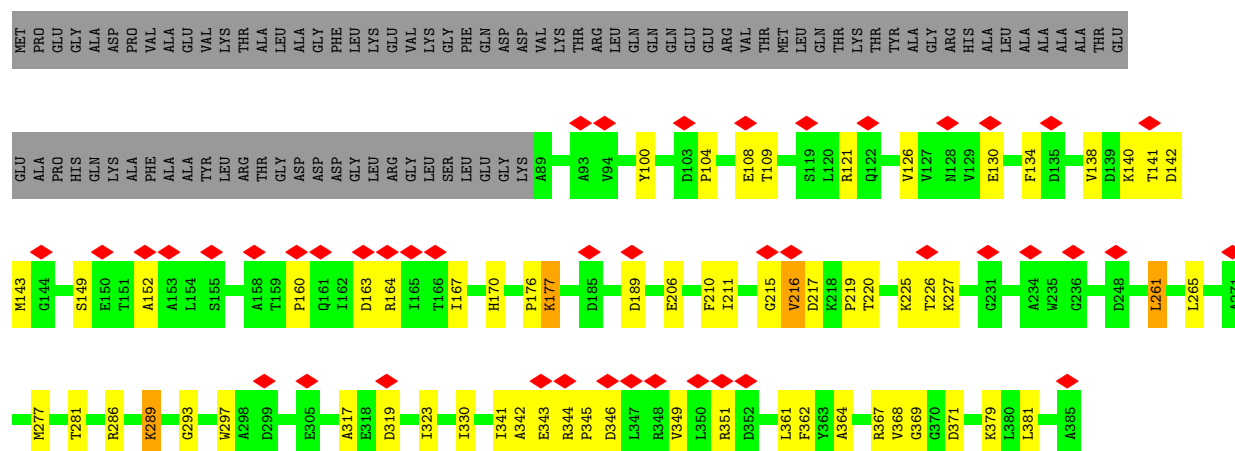


- Molecule 1: Phage major capsid protein, HK97 family

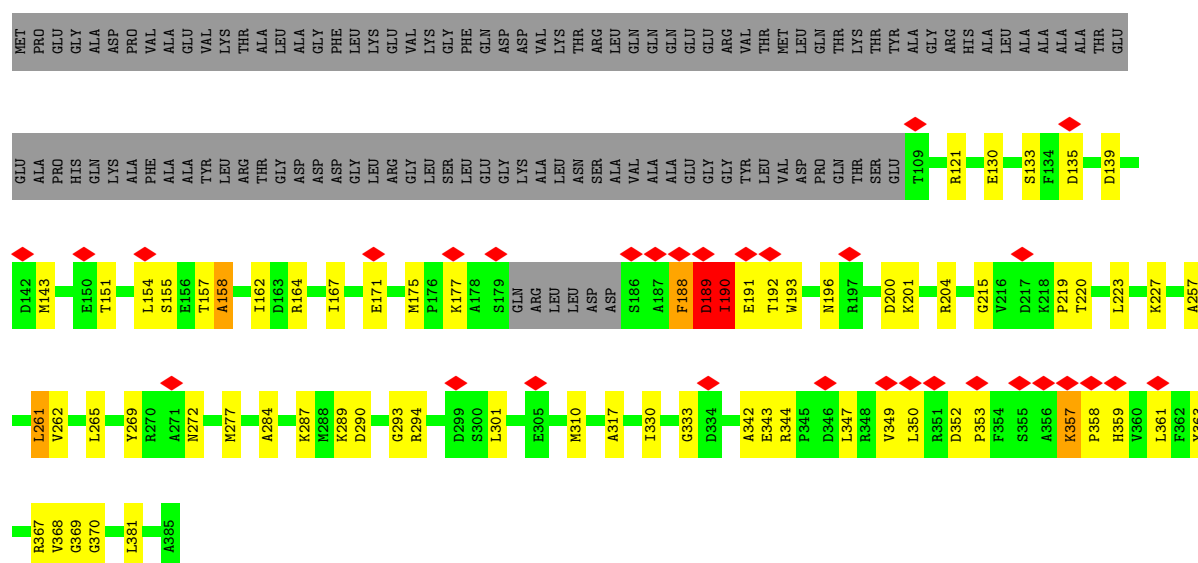
Chain ZO: 63% 15% 23%



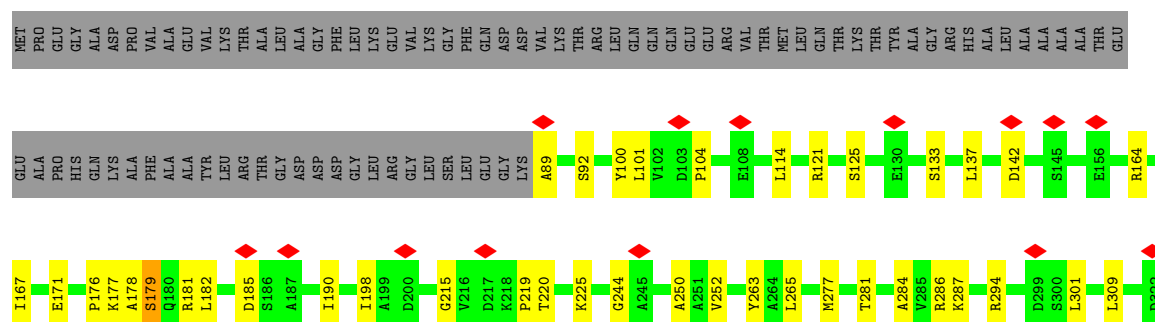
- Molecule 1: Phage major capsid protein, HK97 family

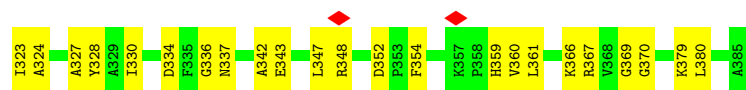


- Molecule 1: Phage major capsid protein, HK97 family

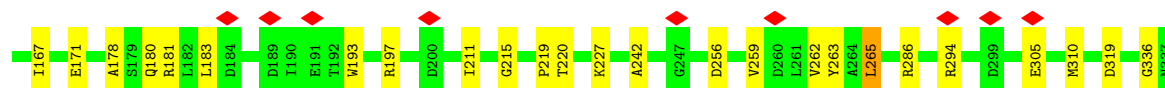
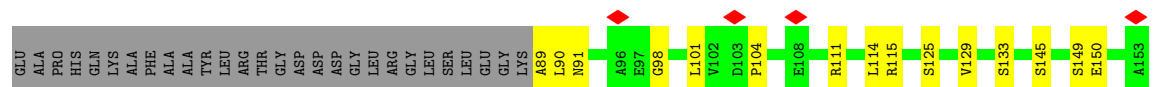
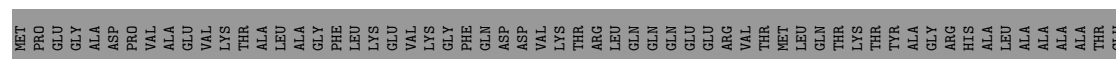


- Molecule 1: Phage major capsid protein, HK97 family

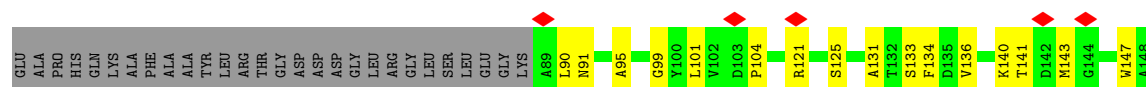
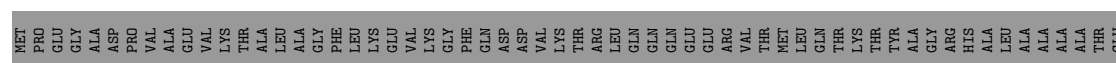




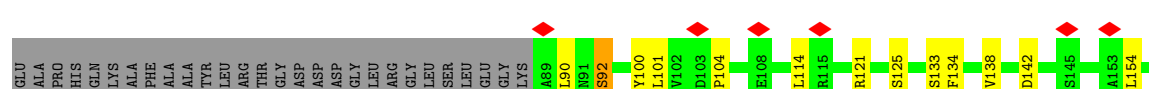
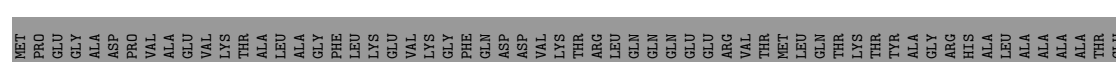
- Molecule 1: Phage major capsid protein, HK97 family

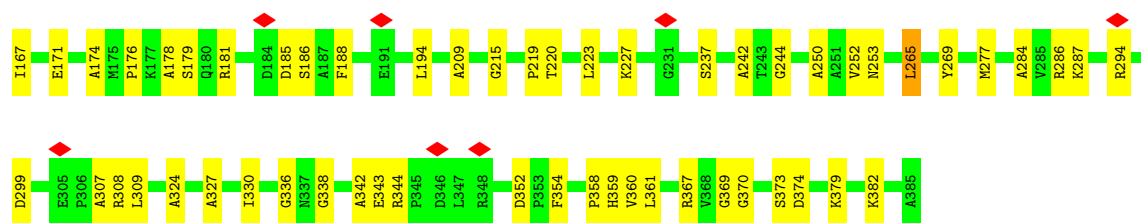


- Molecule 1: Phage major capsid protein, HK97 family



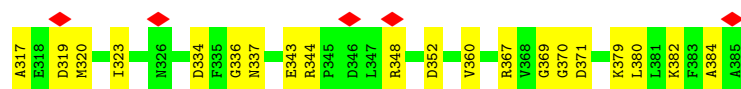
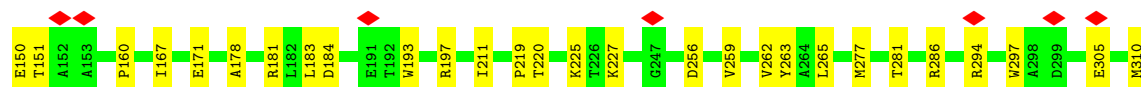
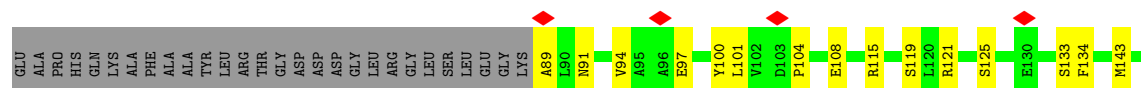
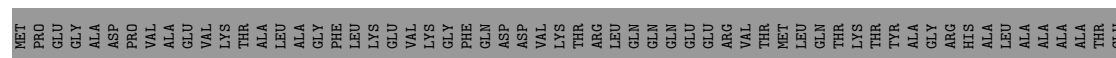
- Molecule 1: Phage major capsid protein, HK97 family





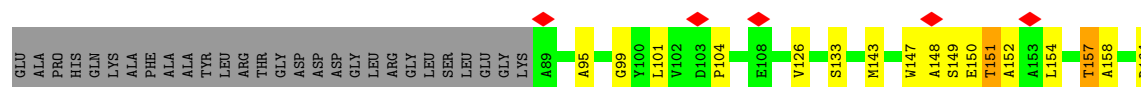
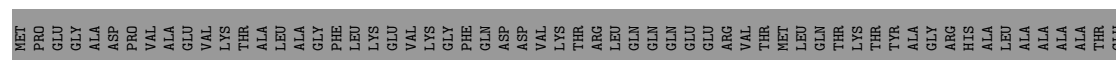
- Molecule 1: Phage major capsid protein, HK97 family

Chain OO: 61% 16% 23%



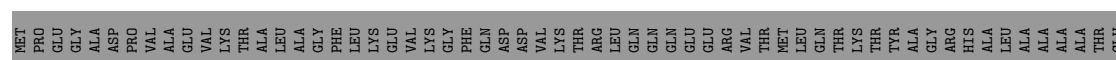
- Molecule 1: Phage major capsid protein, HK97 family

Chain PO: 63% 14% 23%

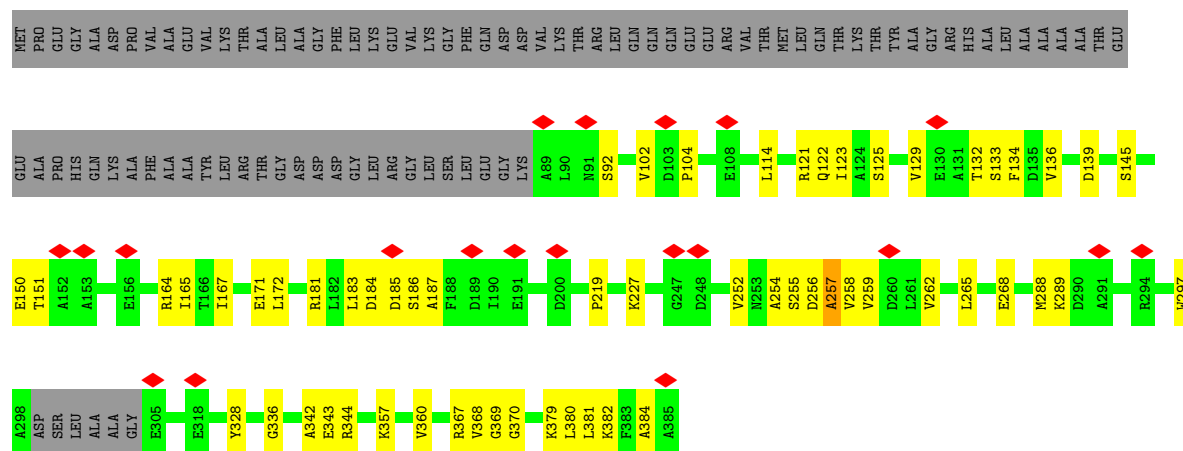


- Molecule 1: Phage major capsid protein, HK97 family

Chain WO: 5% 58% 24%

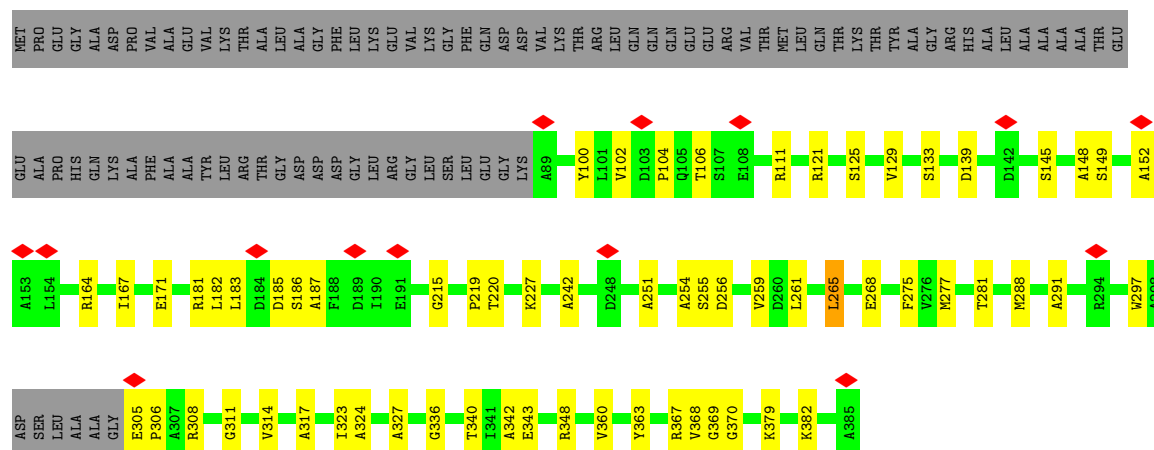






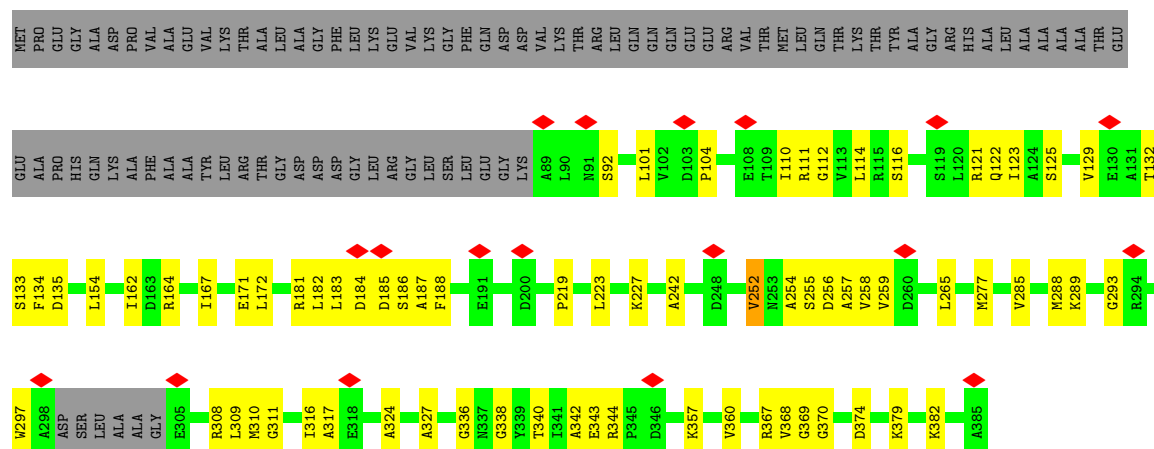
- Molecule 1: Phage major capsid protein, HK97 family

Chain KO: 59% 16% 24%



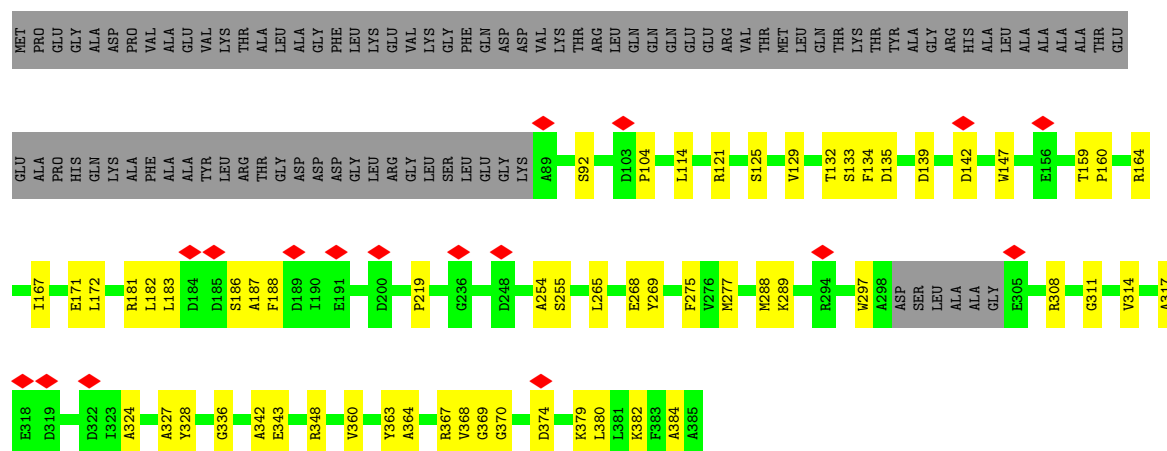
- Molecule 1: Phage major capsid protein, HK97 family

Chain JO: 5% 57% 18% 24%



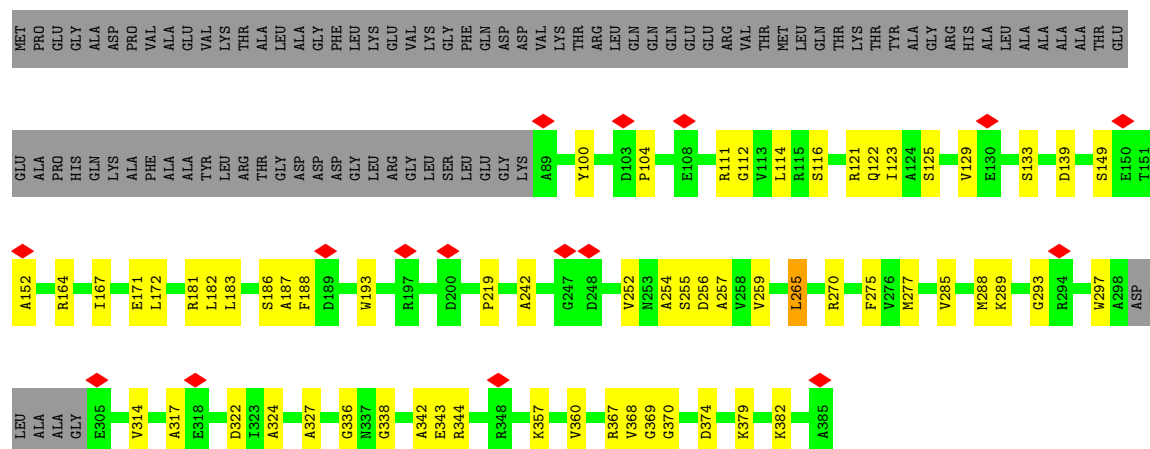
- Molecule 1: Phage major capsid protein, HK97 family

Chain VO: 



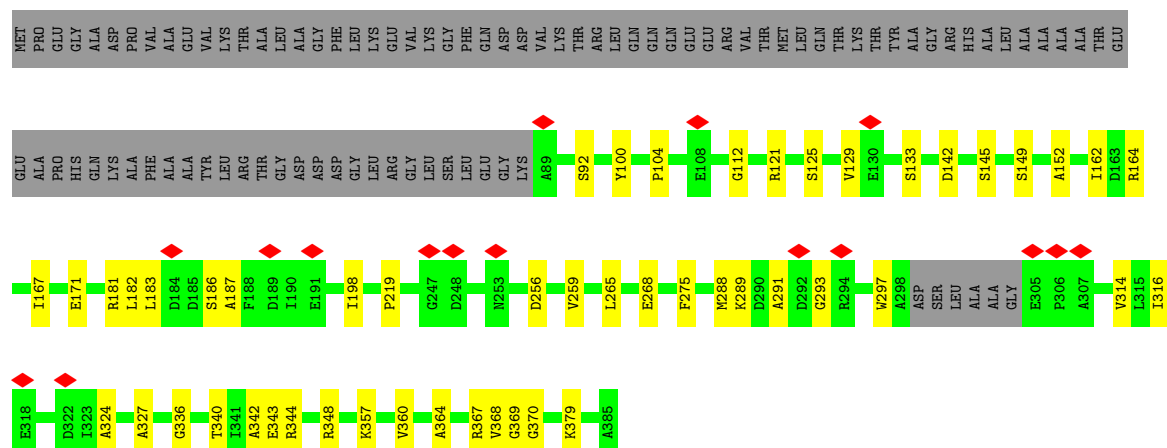
- Molecule 1: Phage major capsid protein, HK97 family

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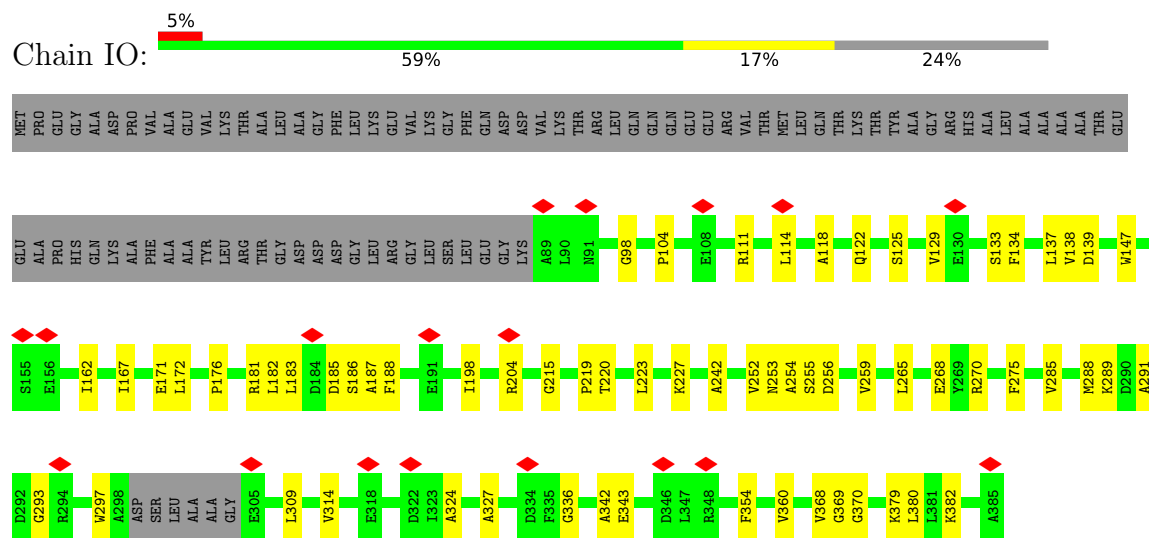


- Molecule 1: Phage major capsid protein, HK97 family

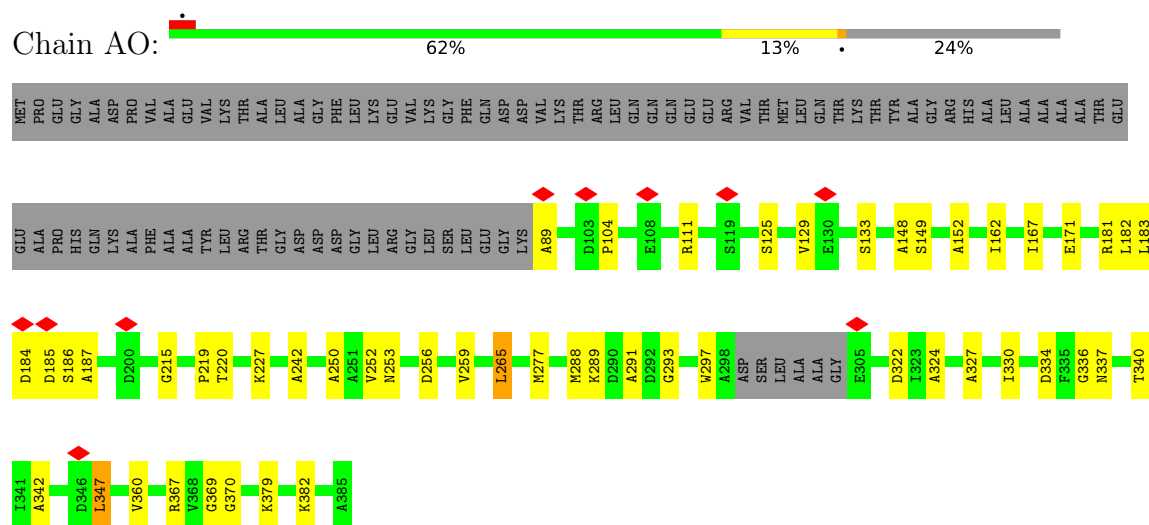
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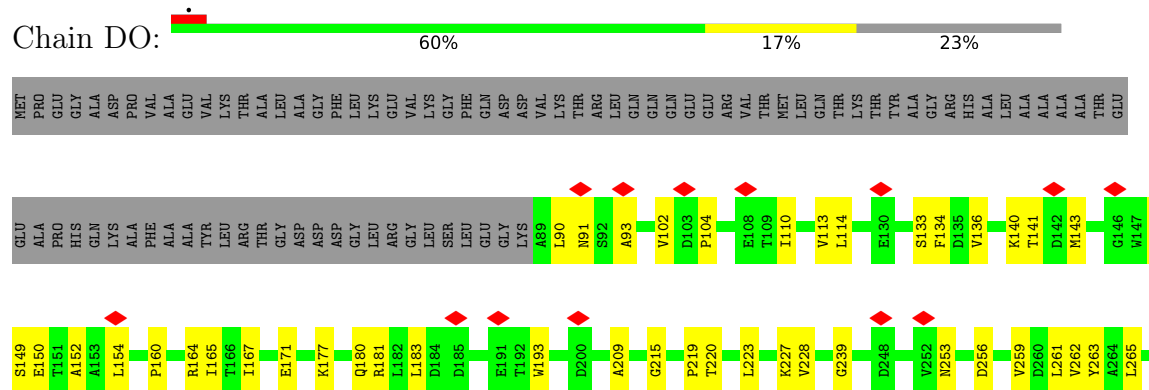
- Molecule 1: Phage major capsid protein, HK97 family

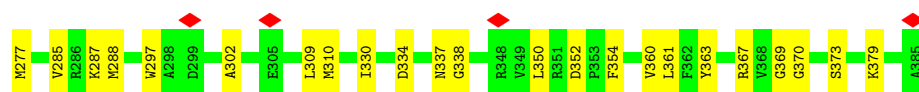


- Molecule 1: Phage major capsid protein, HK97 family



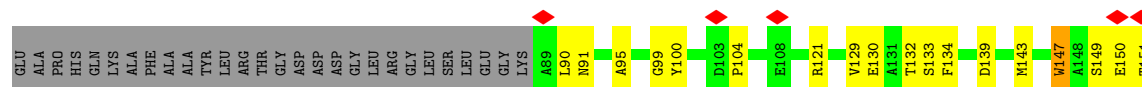
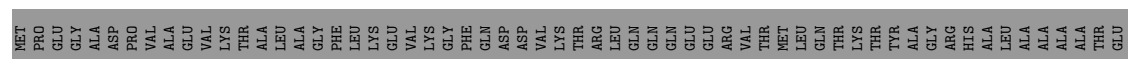
- Molecule 1: Phage major capsid protein, HK97 family





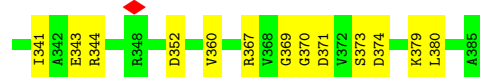
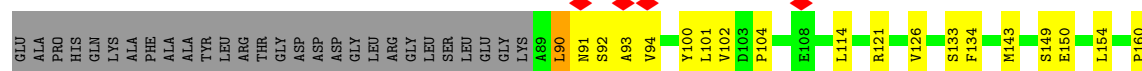
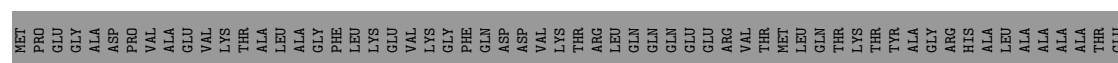
- Molecule 1: Phage major capsid protein, HK97 family

Chain EO: 59% 17% 23%



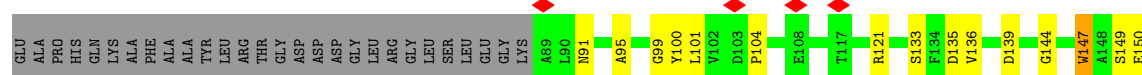
- Molecule 1: Phage major capsid protein, HK97 family

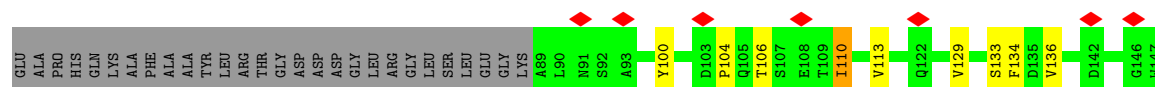
Chain FO: 61% 16% 23%

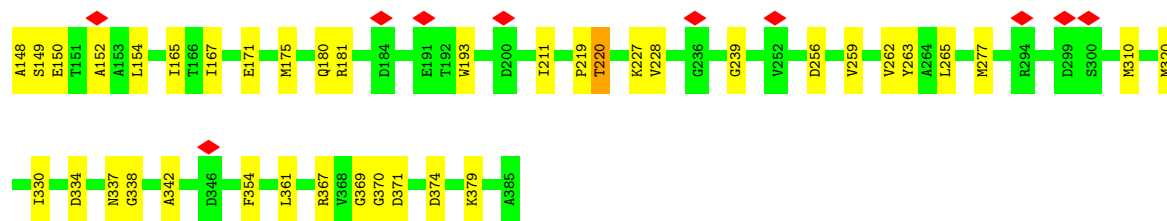


- Molecule 1: Phage major capsid protein, HK97 family

Chain GO: 63% 14% 23%

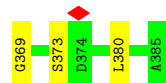
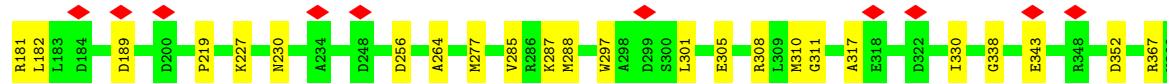
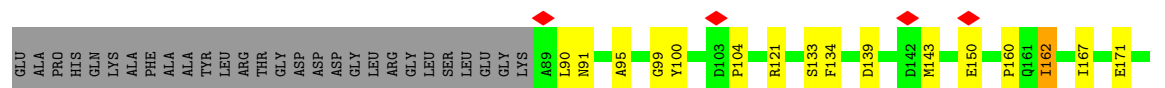
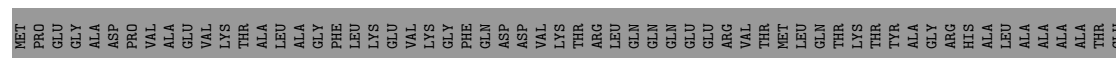






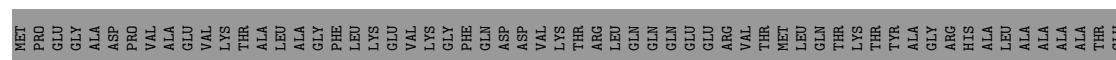
- Molecule 1: Phage major capsid protein, HK97 family

Chain XJ: 66% 11% 23%



- Molecule 1: Phage major capsid protein, HK97 family

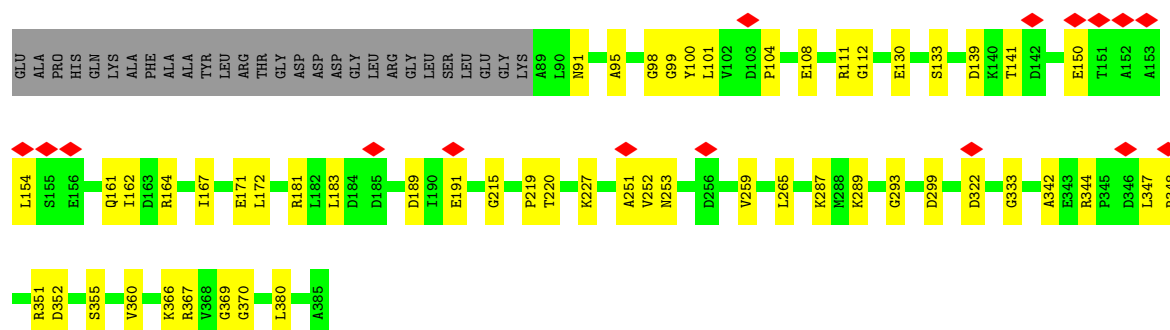
Chain YJ: 64% 13% 23%



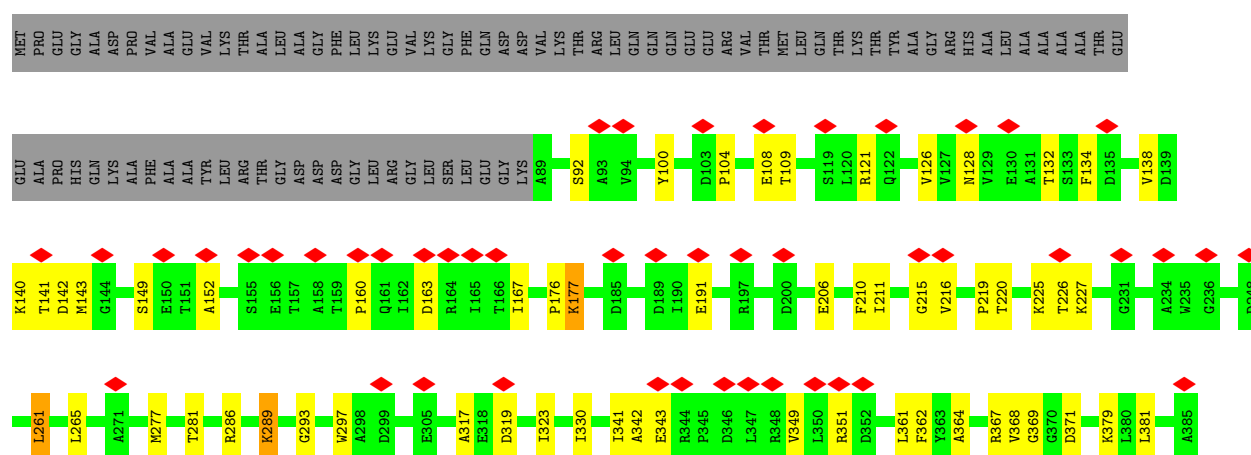
- Molecule 1: Phage major capsid protein, HK97 family

Chain ZJ: 63% 14% 23%

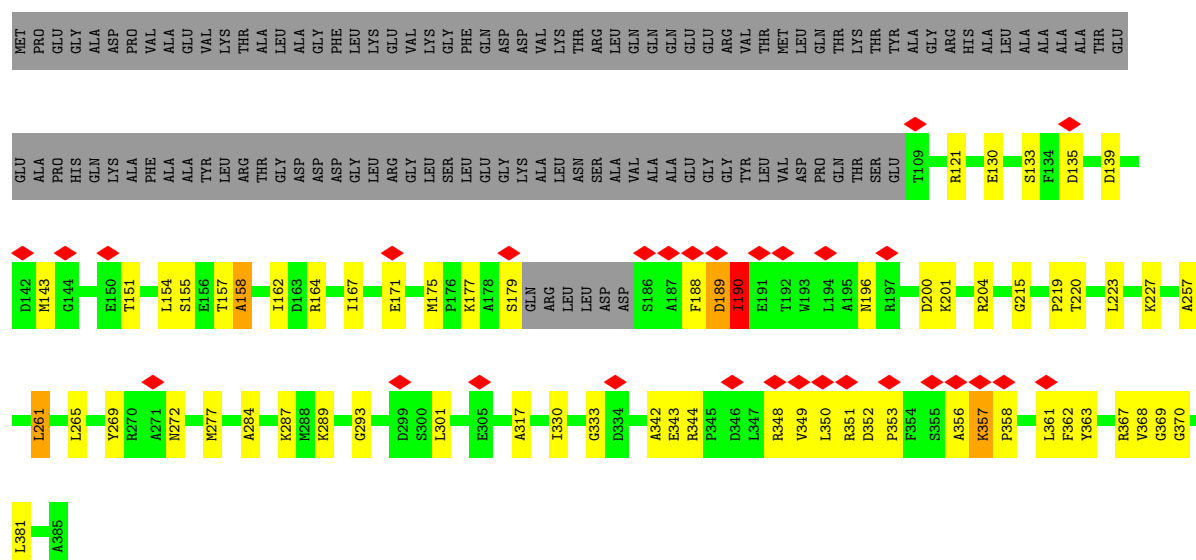




- Molecule 1: Phage major capsid protein, HK97 family

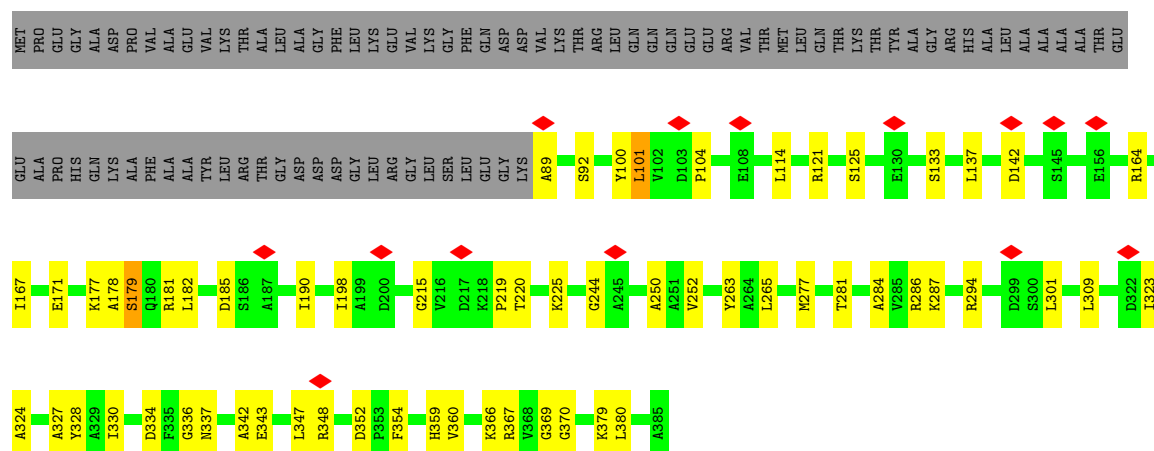


- Molecule 1: Phage major capsid protein, HK97 family



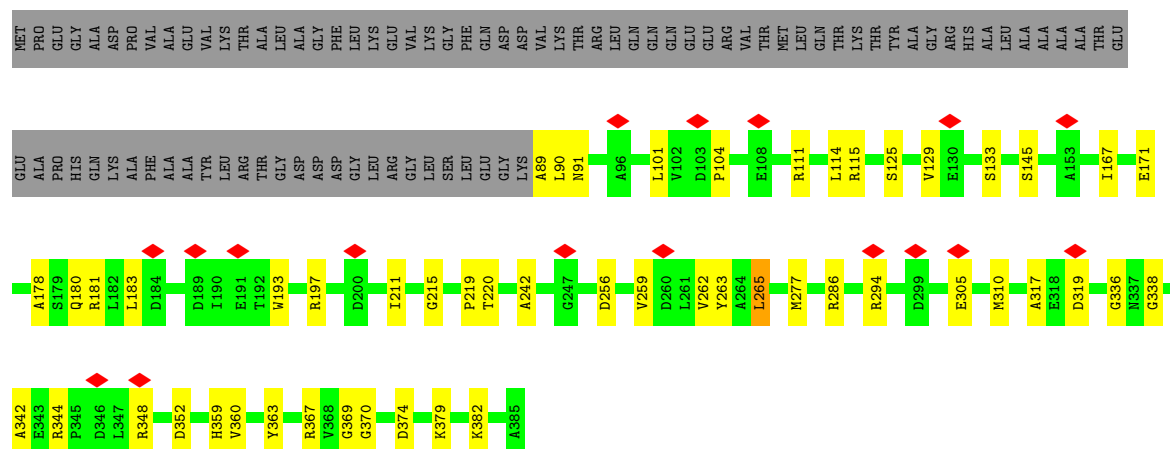
- Molecule 1: Phage major capsid protein, HK97 family

Chain NJ:  61% 15% 23%



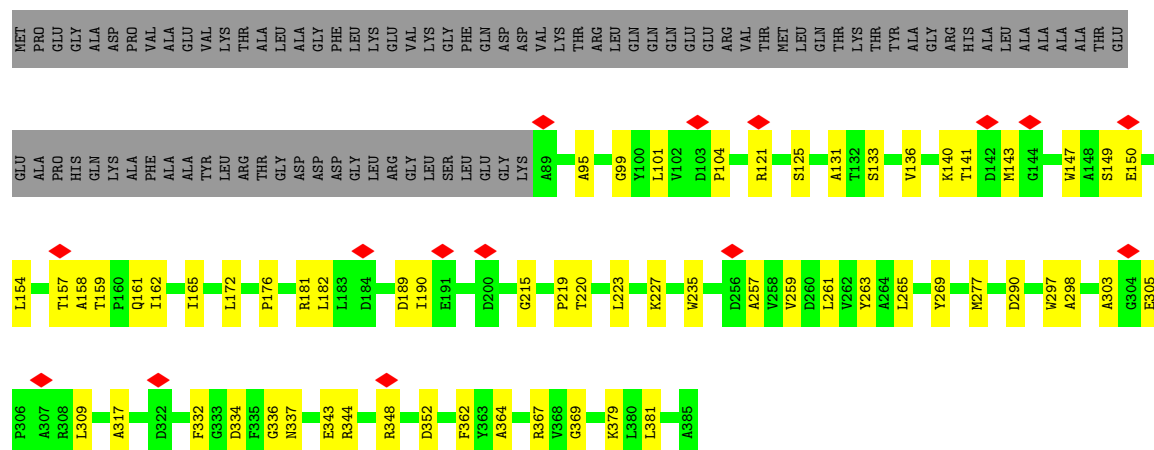
• Molecule 1: Phage major capsid protein, HK97 family

Chain RJ:  64% 13% 23%

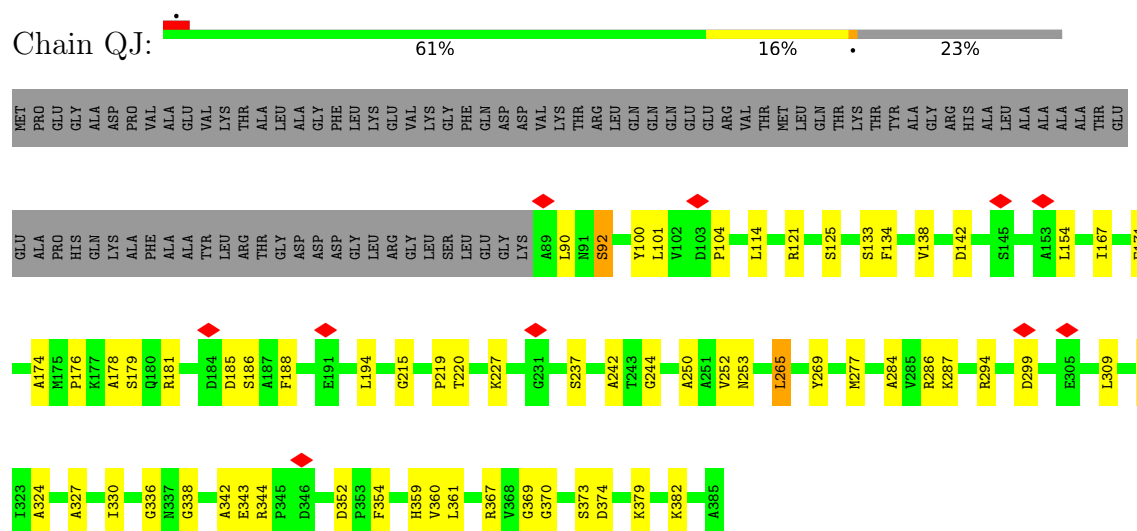


• Molecule 1: Phage major capsid protein, HK97 family

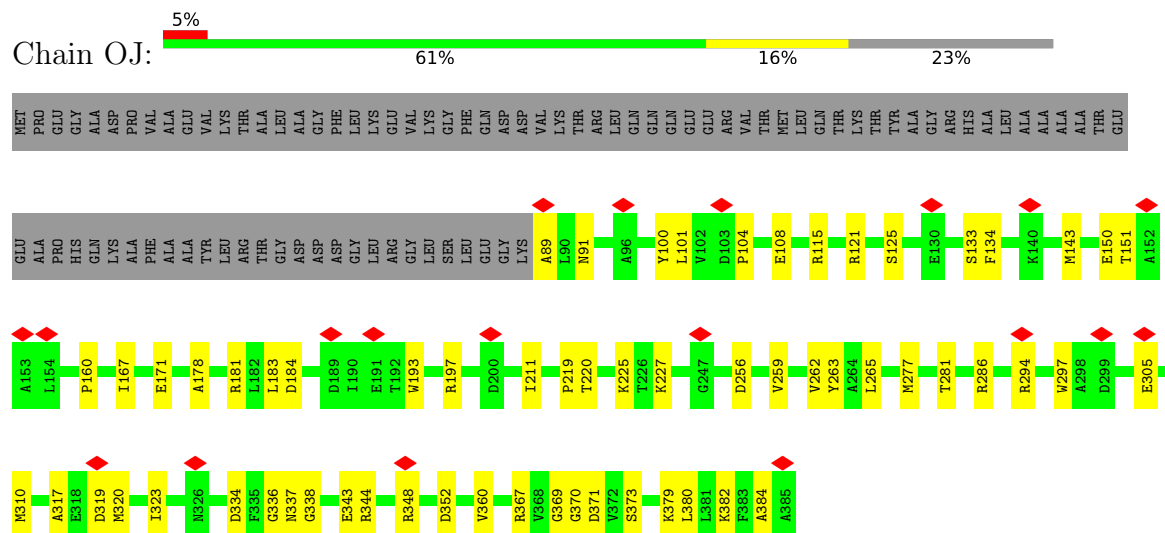
Chain MJ:  61% 16% 23%



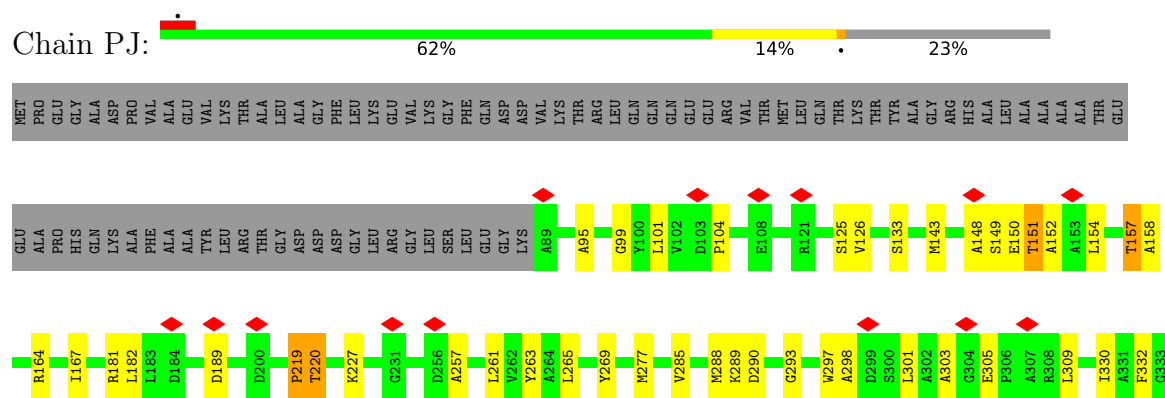
- Molecule 1: Phage major capsid protein, HK97 family

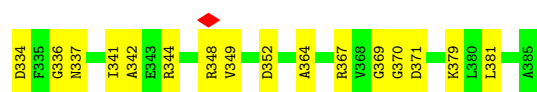


- Molecule 1: Phage major capsid protein, HK97 family

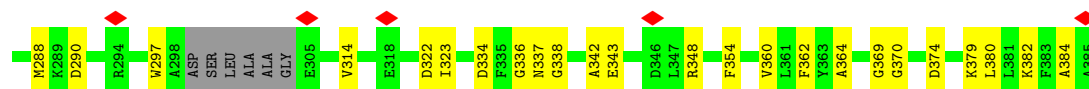
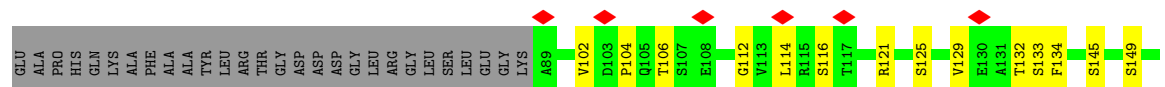
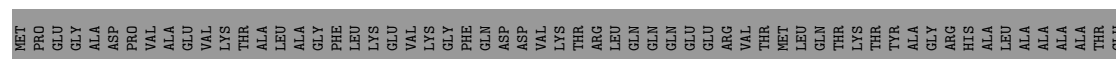


- Molecule 1: Phage major capsid protein, HK97 family

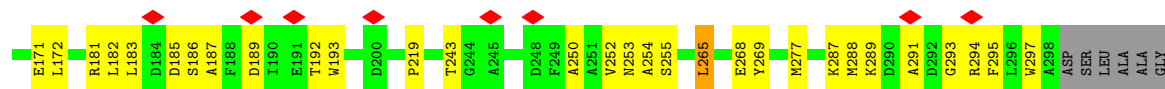
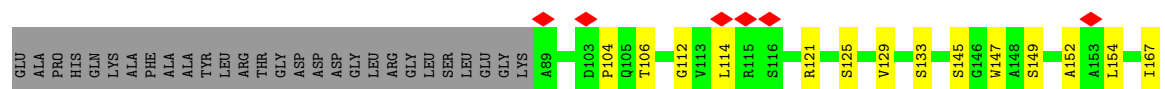
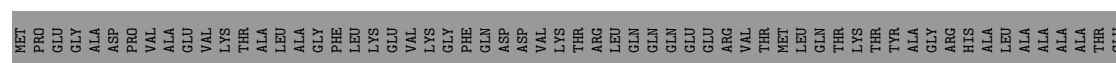




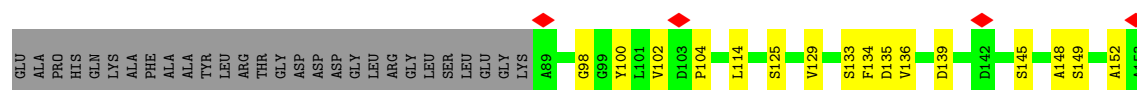
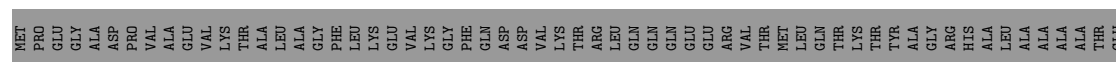
- Molecule 1: Phage major capsid protein, HK97 family

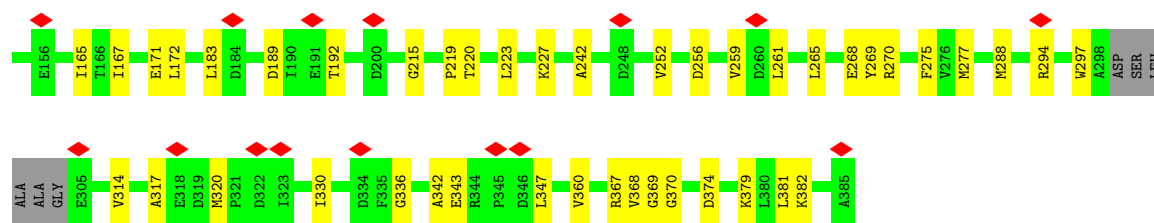


- Molecule 1: Phage major capsid protein, HK97 family

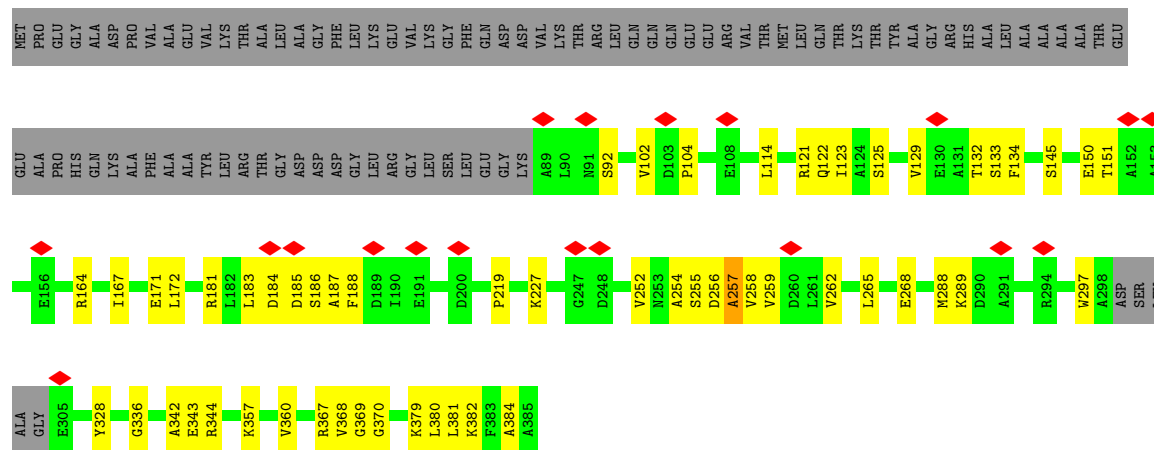


- Molecule 1: Phage major capsid protein, HK97 family

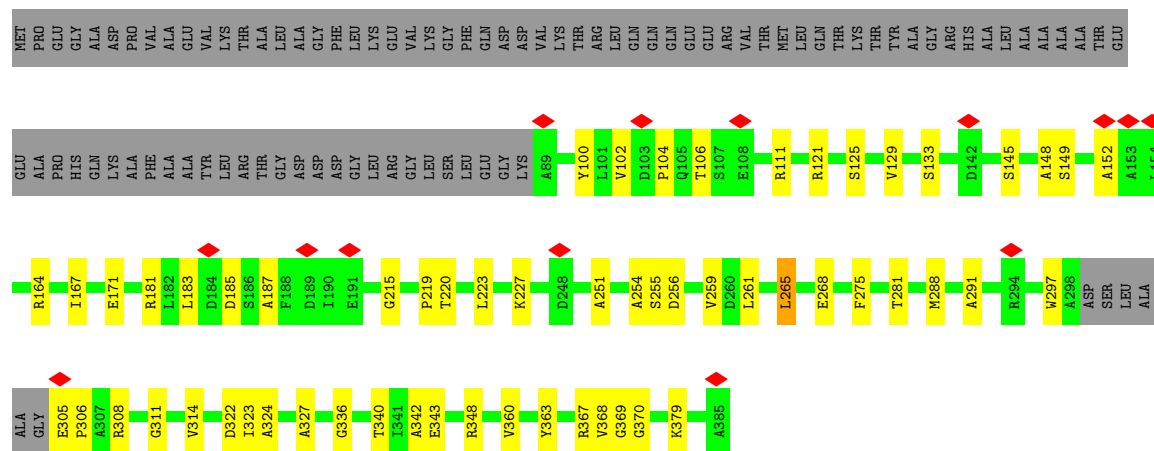




- Molecule 1: Phage major capsid protein, HK97 family

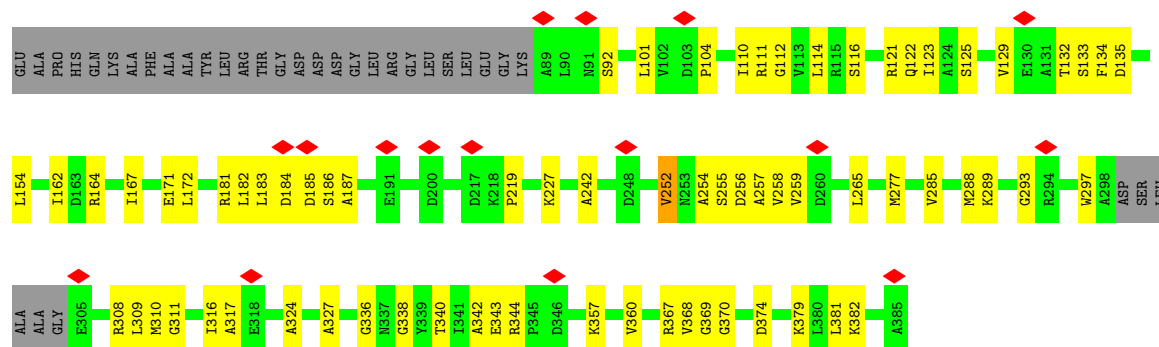


- Molecule 1: Phage major capsid protein, HK97 family



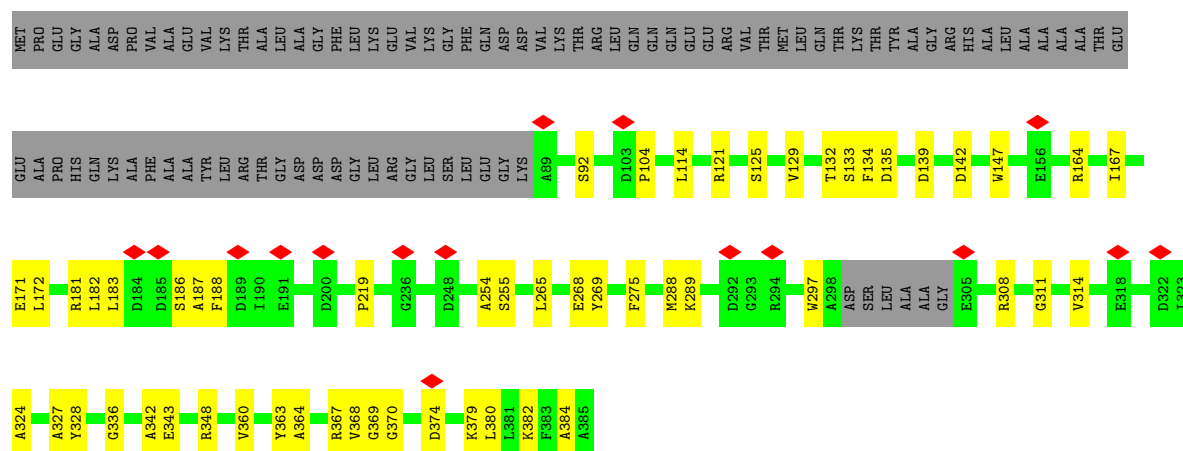
- Molecule 1: Phage major capsid protein, HK97 family





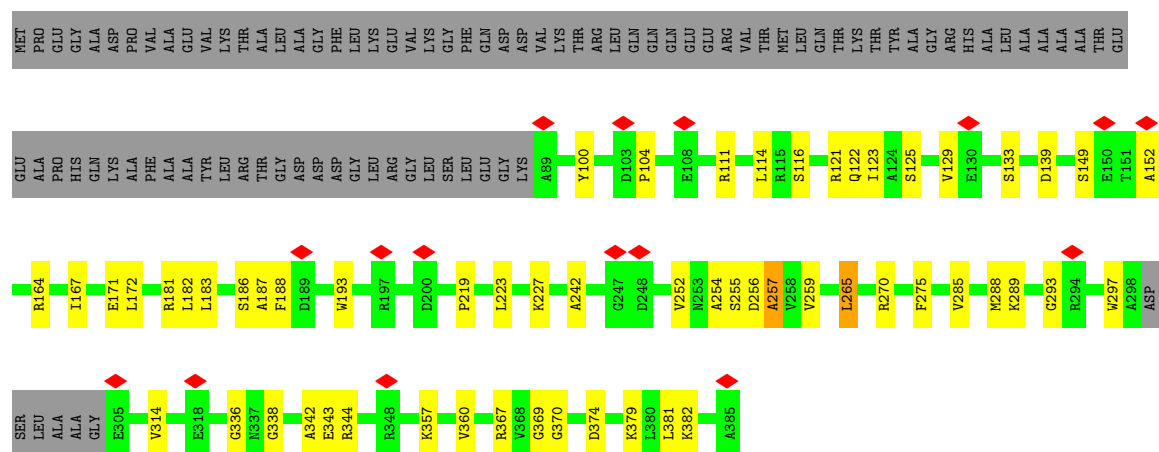
- Molecule 1: Phage major capsid protein, HK97 family

Chain VJ: 61% 14% 24%



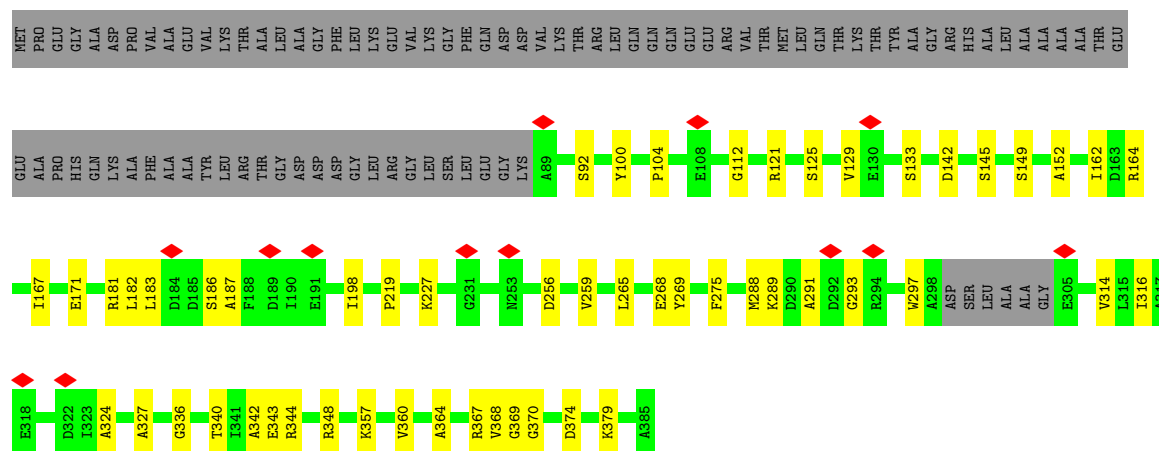
- Molecule 1: Phage major capsid protein, HK97 family

Chain LJ: 61% 15% 24%

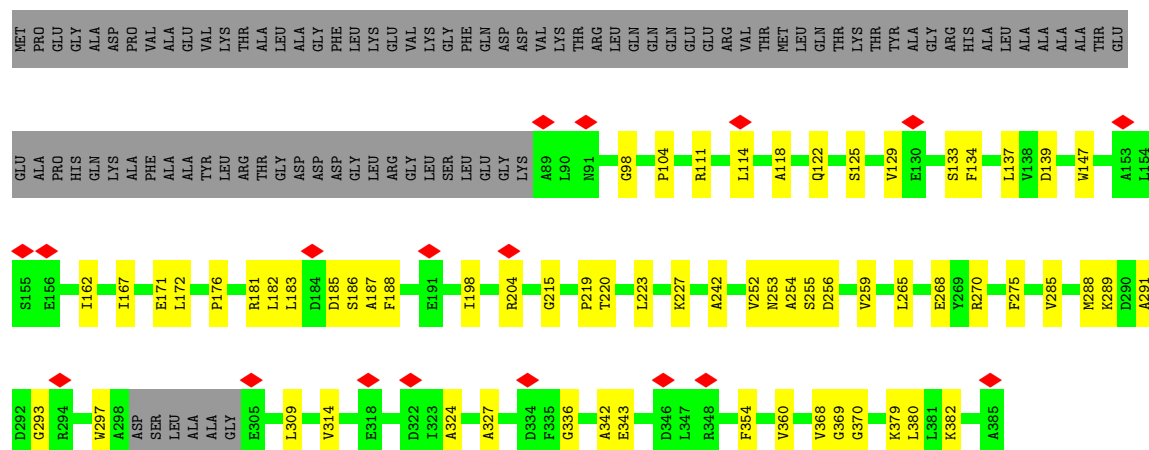


- Molecule 1: Phage major capsid protein, HK97 family

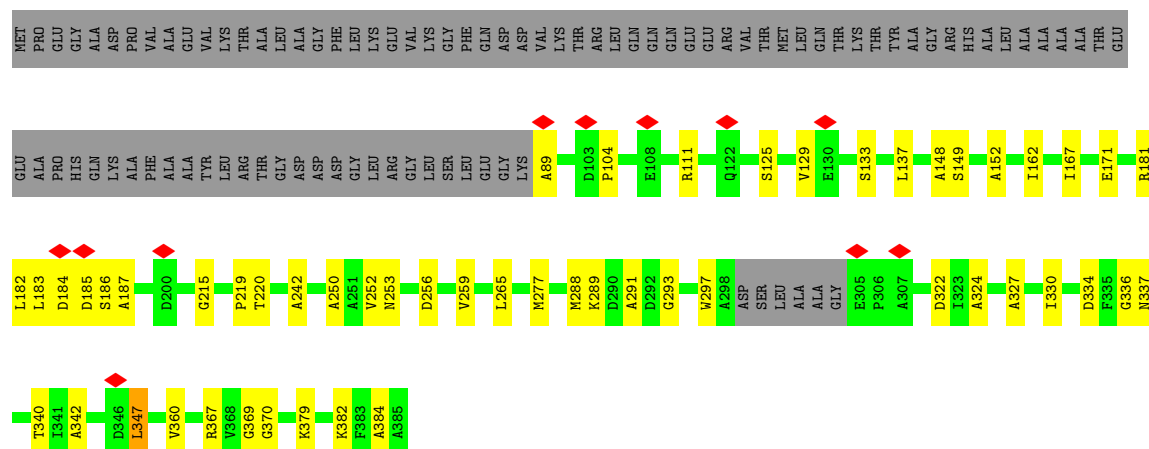
Chain HJ: 62% 14% 24%



- Molecule 1: Phage major capsid protein, HK97 family

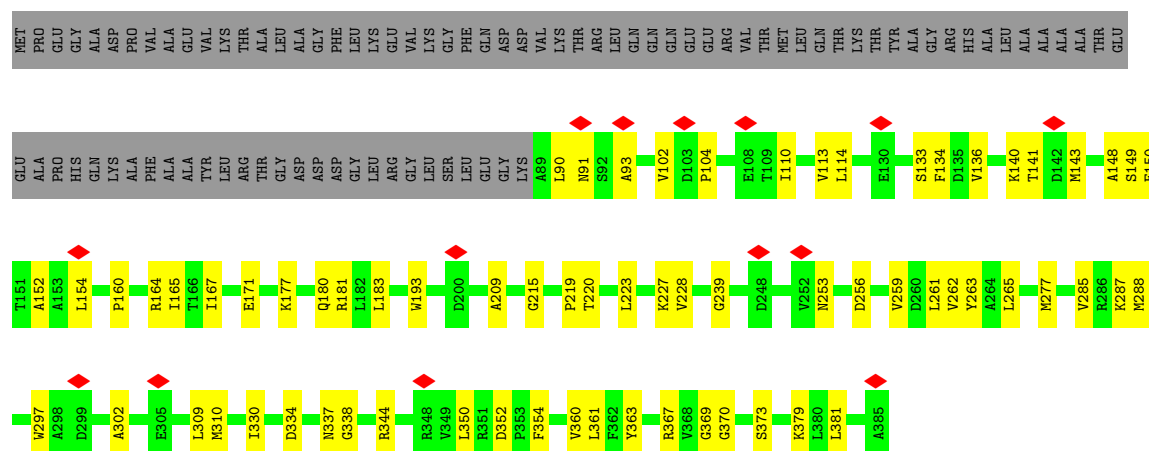


- Molecule 1: Phage major capsid protein, HK97 family



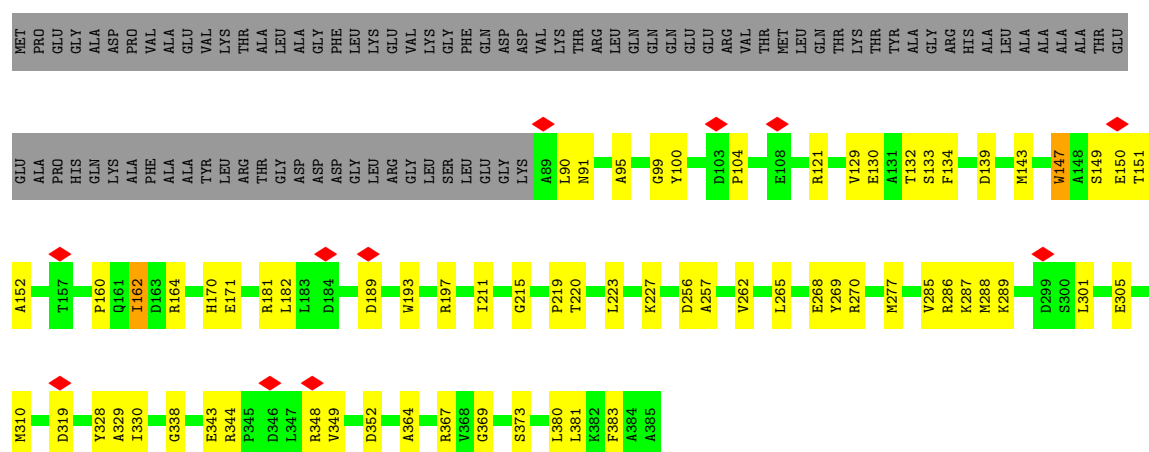
- Molecule 1: Phage major capsid protein, HK97 family

Chain DJ:  59% 18% 23%



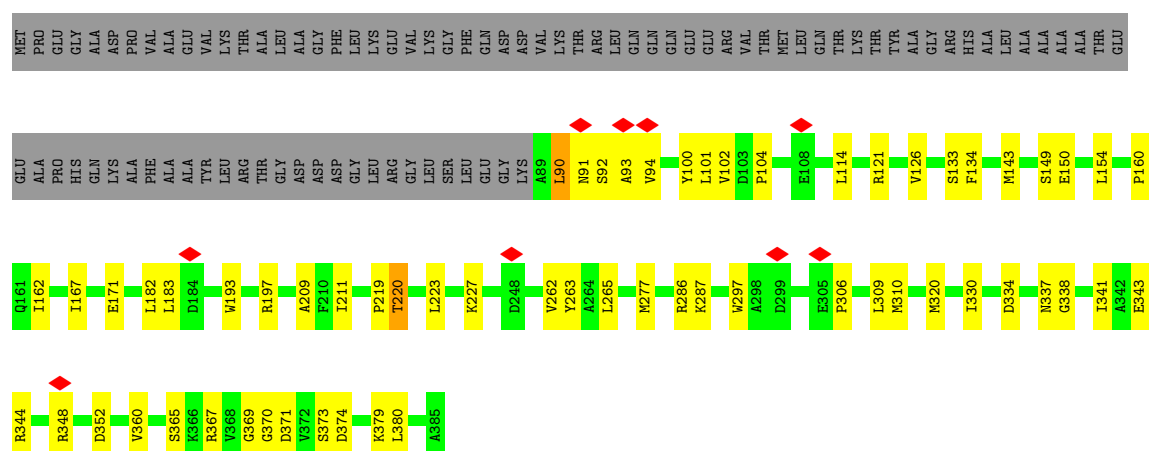
- Molecule 1: Phage major capsid protein, HK97 family

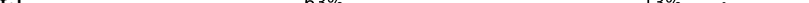
Chain EJ:  59% 17% 23%

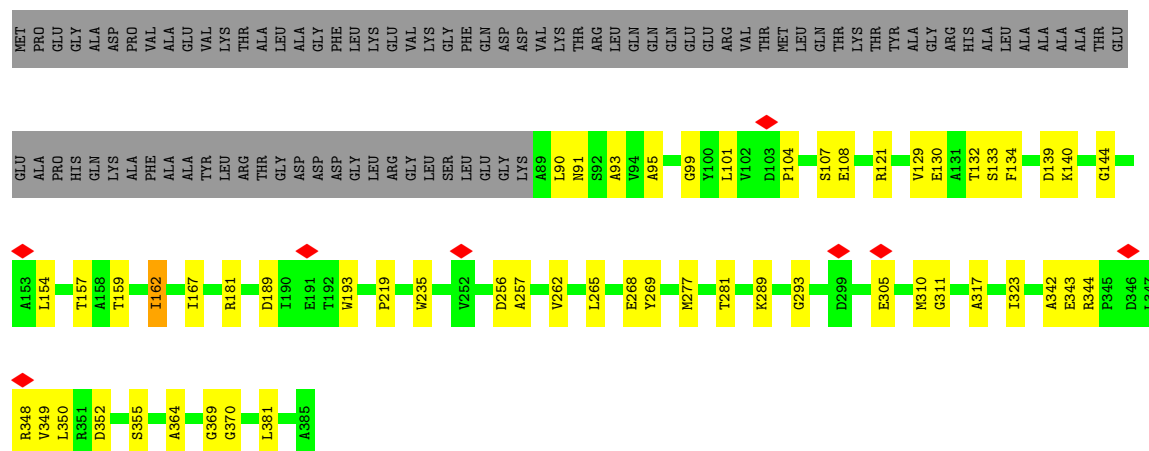


- Molecule 1: Phage major capsid protein, HK97 family

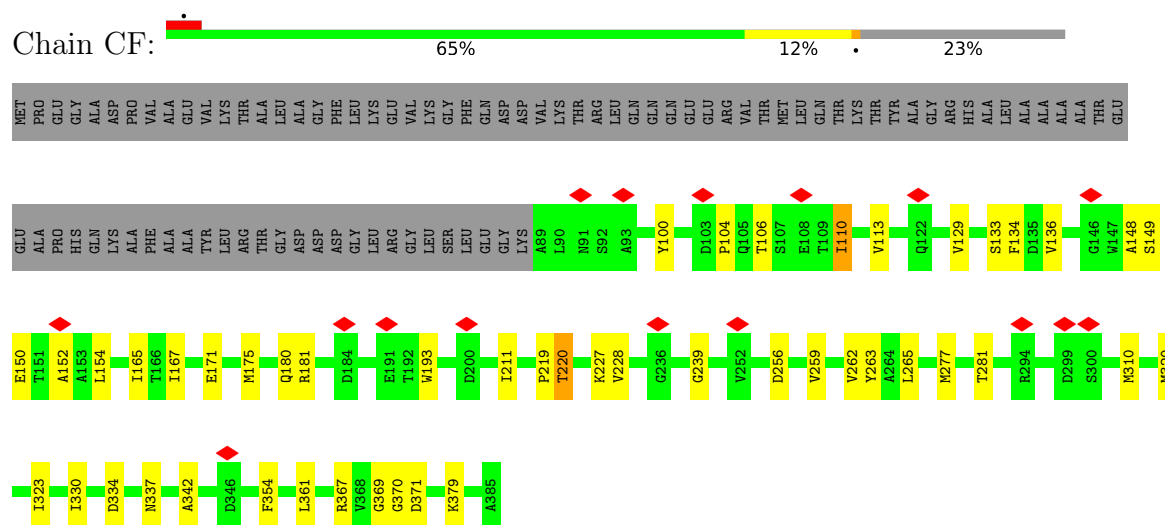
Chain FJ:  61% 16% 23%



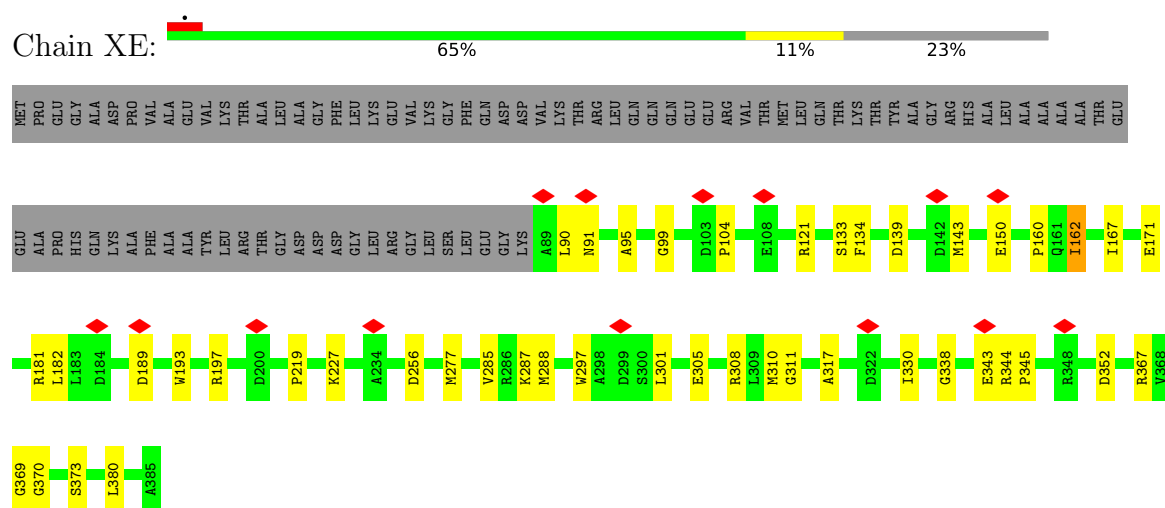
- Chain GJ:  63% 13% 23%



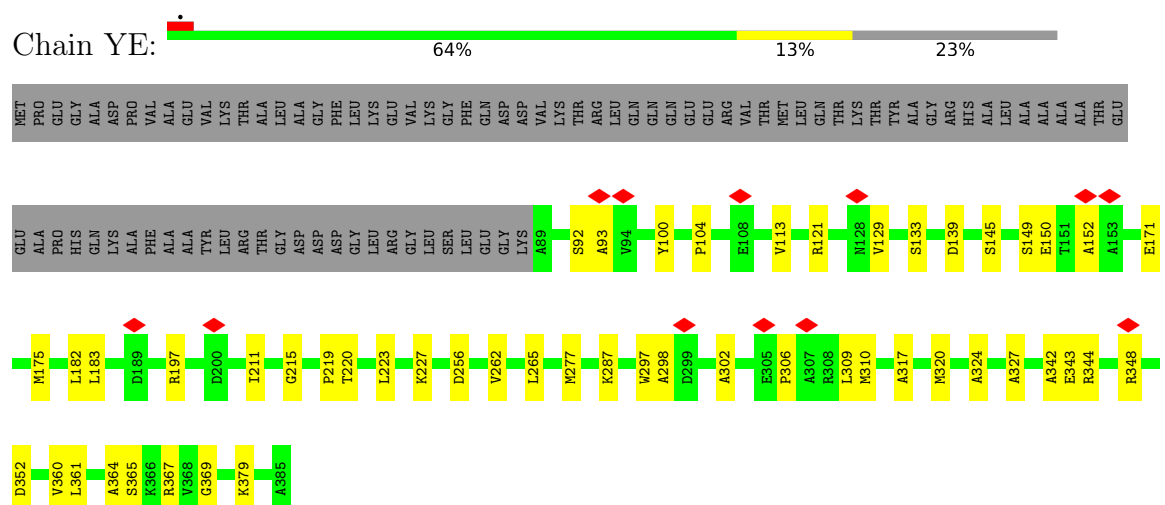
- Molecule 1: Phage major capsid protein, HK97 family



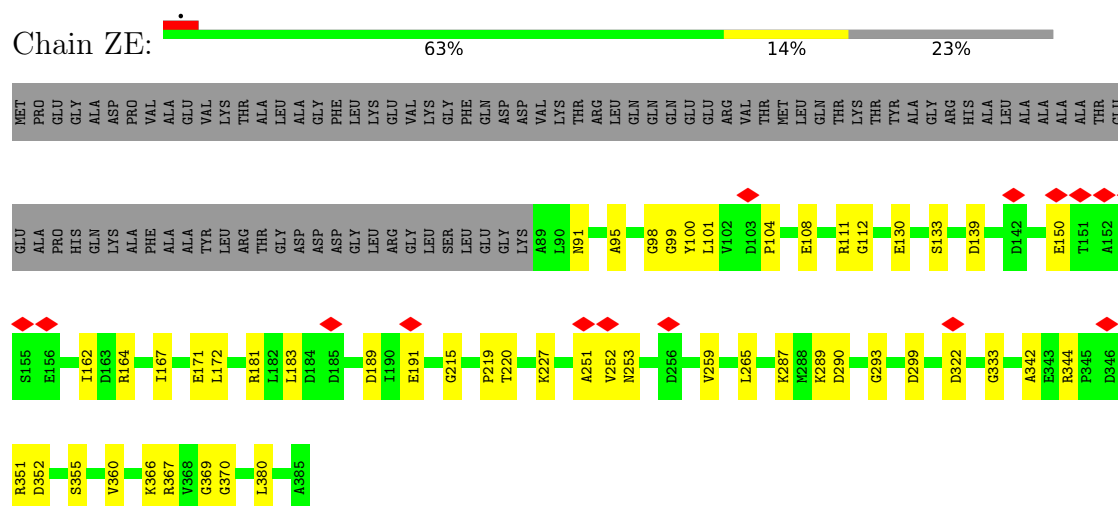
- Molecule 1: Phage major capsid protein, HK97 family



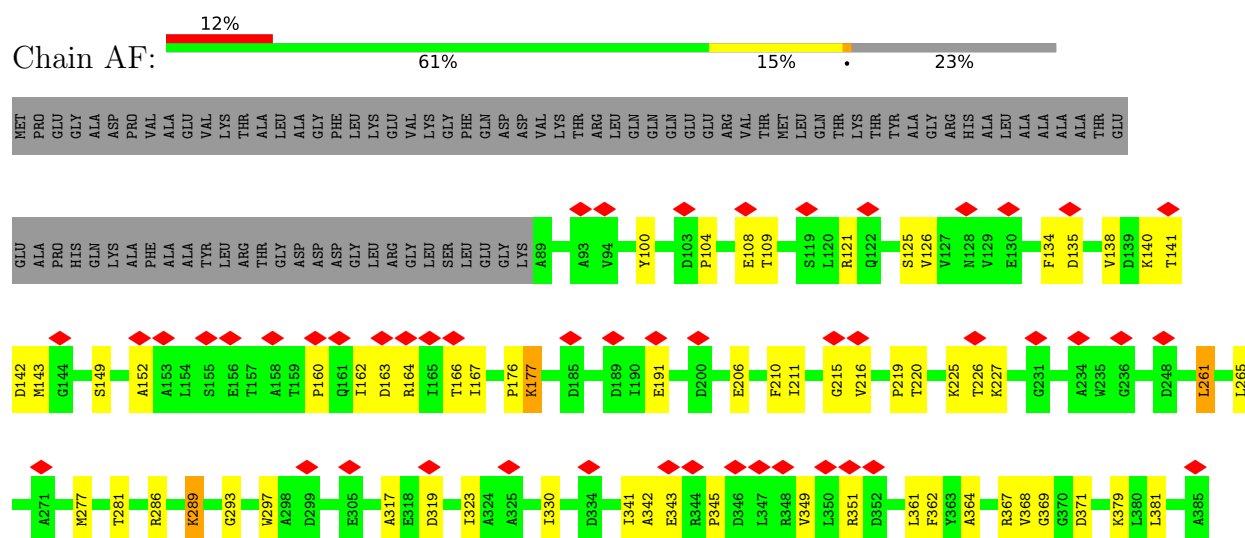
- Molecule 1: Phage major capsid protein, HK97 family



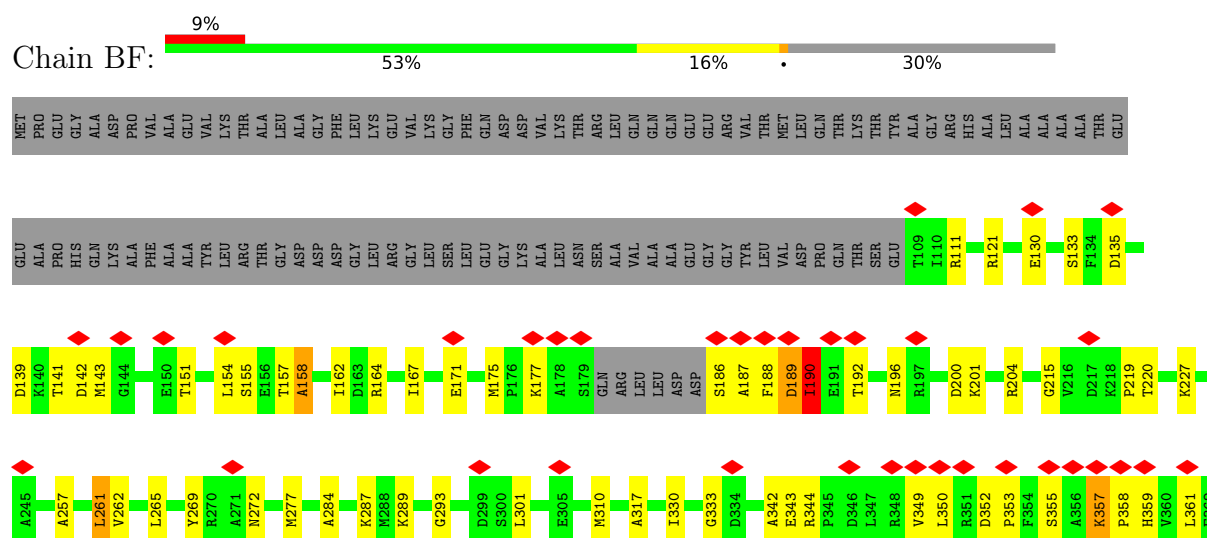
- Molecule 1: Phage major capsid protein, HK97 family

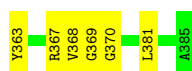


- Molecule 1: Phage major capsid protein, HK97 family



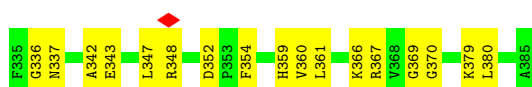
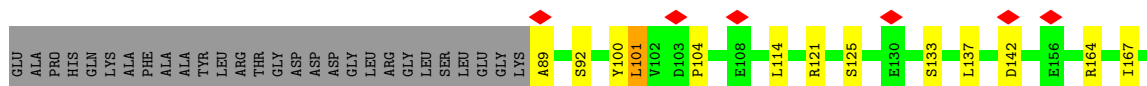
- Molecule 1: Phage major capsid protein, HK97 family





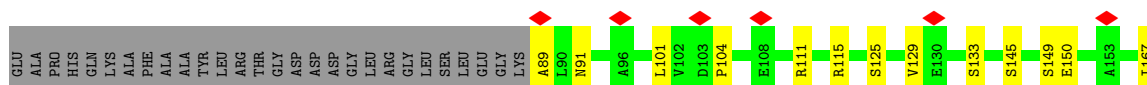
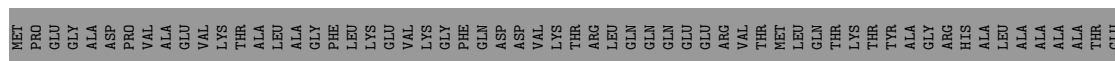
- Molecule 1: Phage major capsid protein, HK97 family

Chain NE: 61% 15% 23%



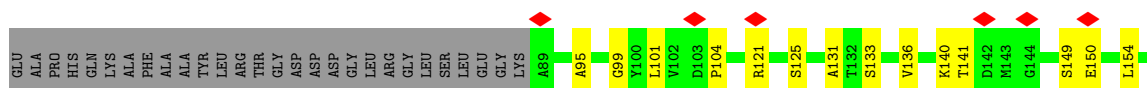
- Molecule 1: Phage major capsid protein, HK97 family

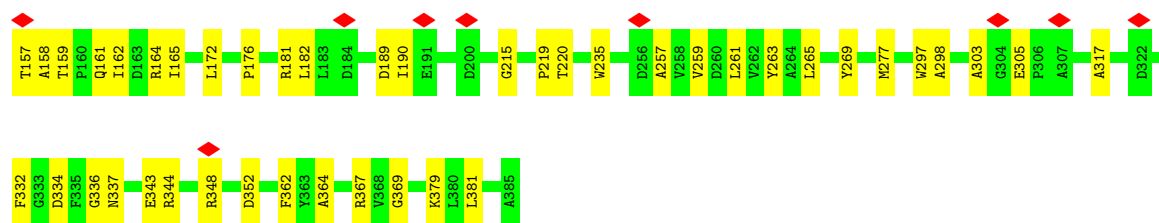
Chain RE: 63% 14% 23%



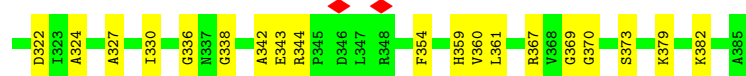
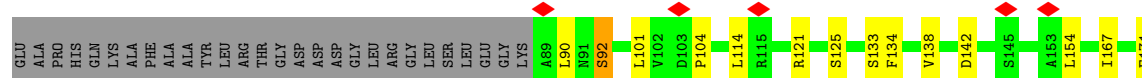
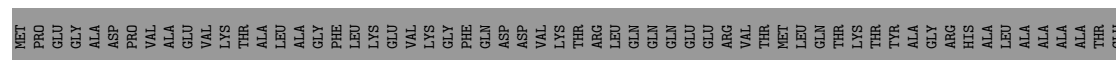
- Molecule 1: Phage major capsid protein, HK97 family

Chain ME: 62% 15% 23%

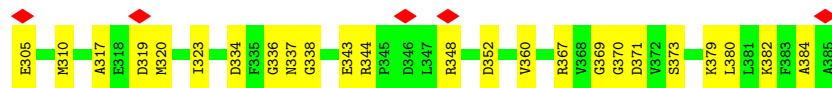
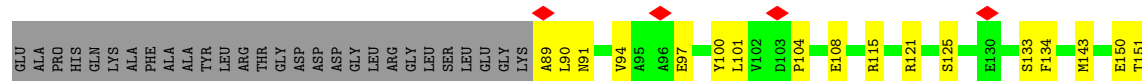
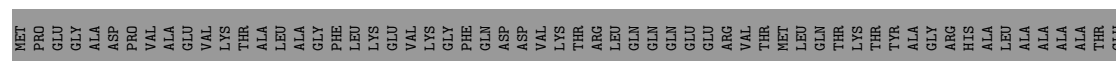




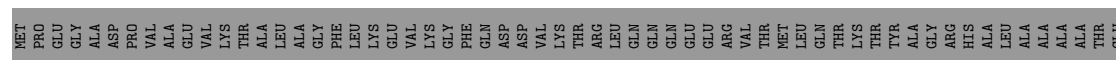
- Molecule 1: Phage major capsid protein, HK97 family

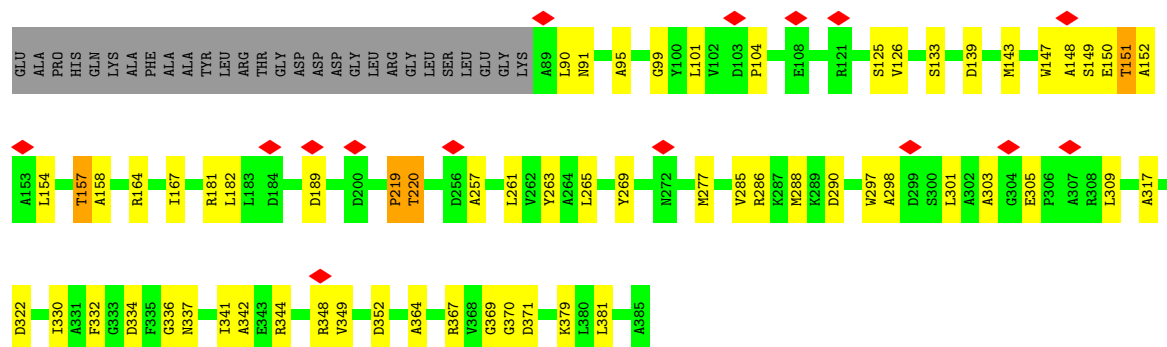


- Molecule 1: Phage major capsid protein, HK97 family

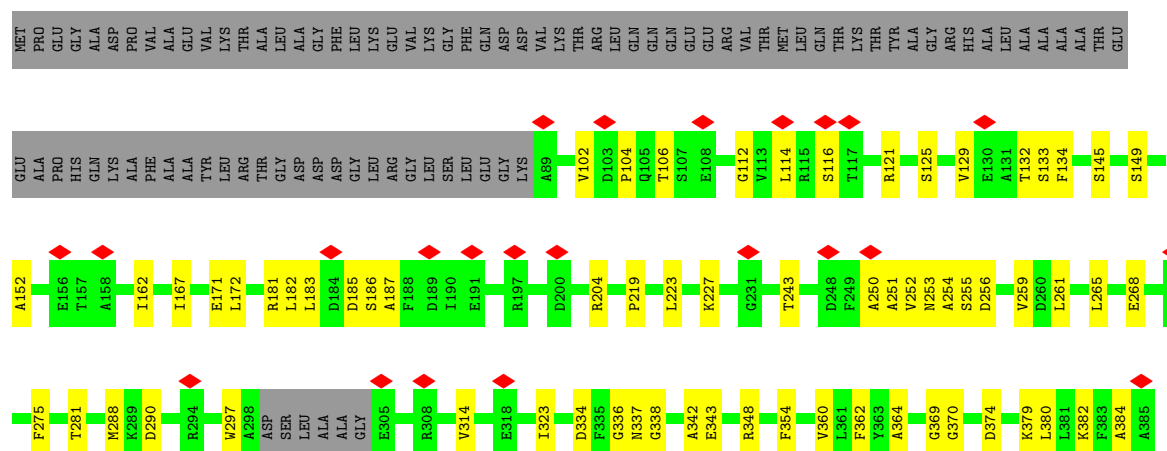


- Molecule 1: Phage major capsid protein, HK97 family

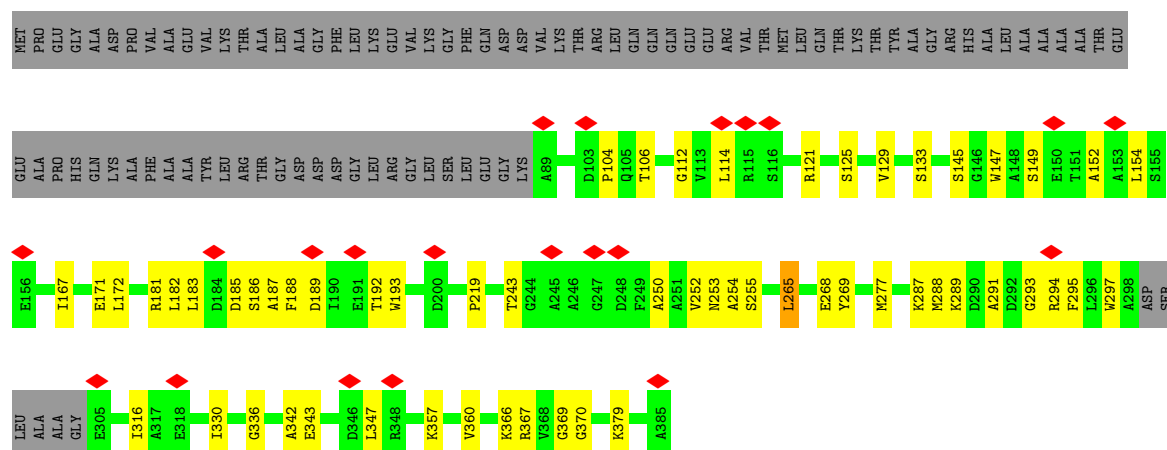




- Molecule 1: Phage major capsid protein, HK97 family

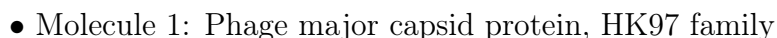


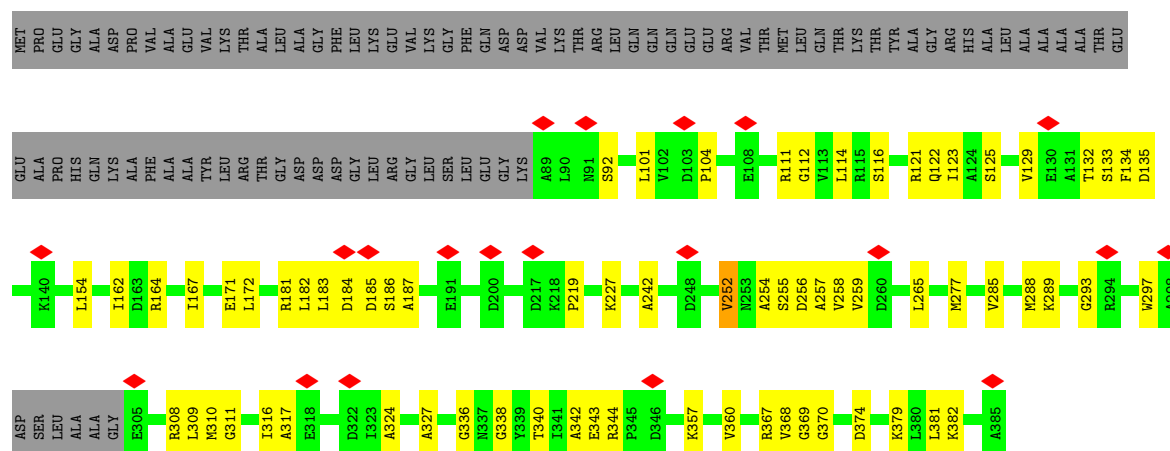
- Molecule 1: Phage major capsid protein, HK97 family



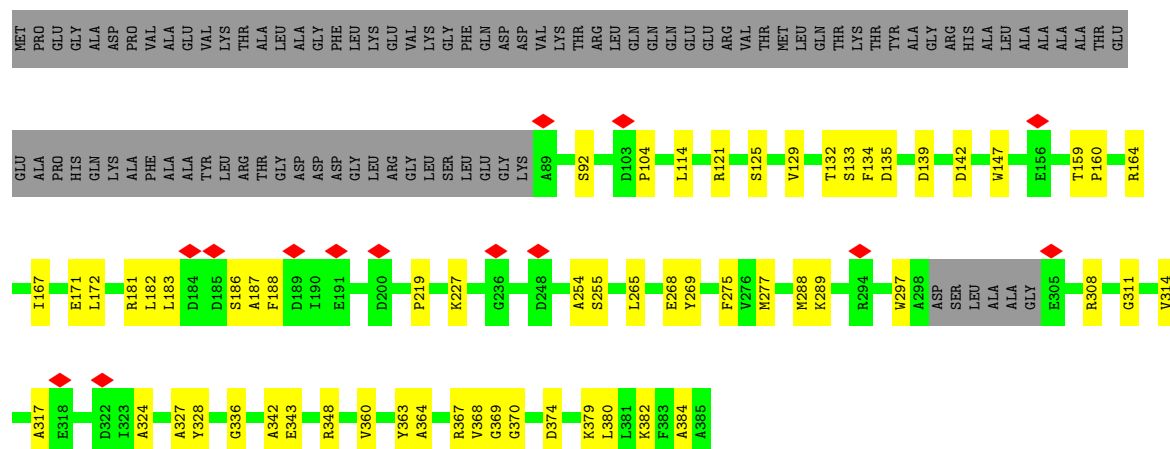
- Molecule 1: Phage major capsid protein, HK97 family



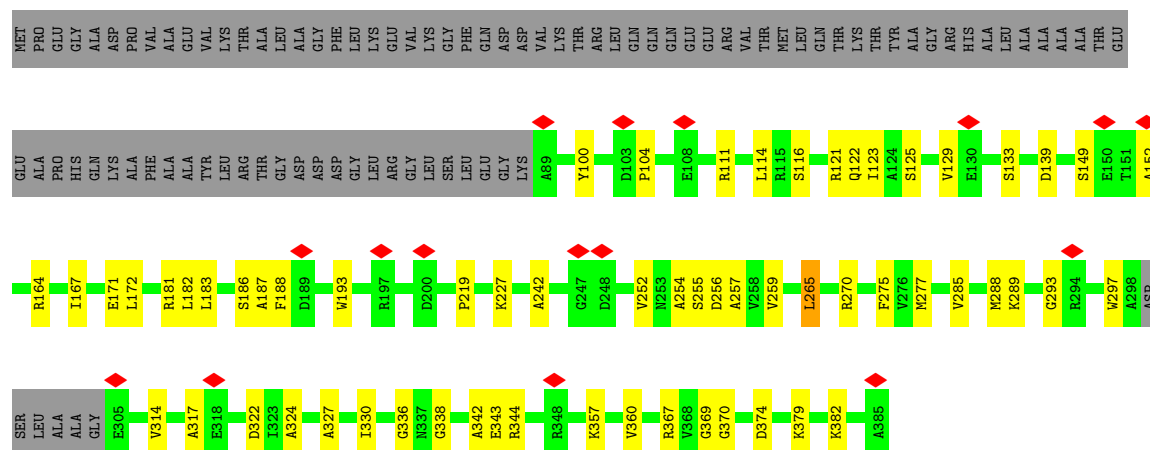




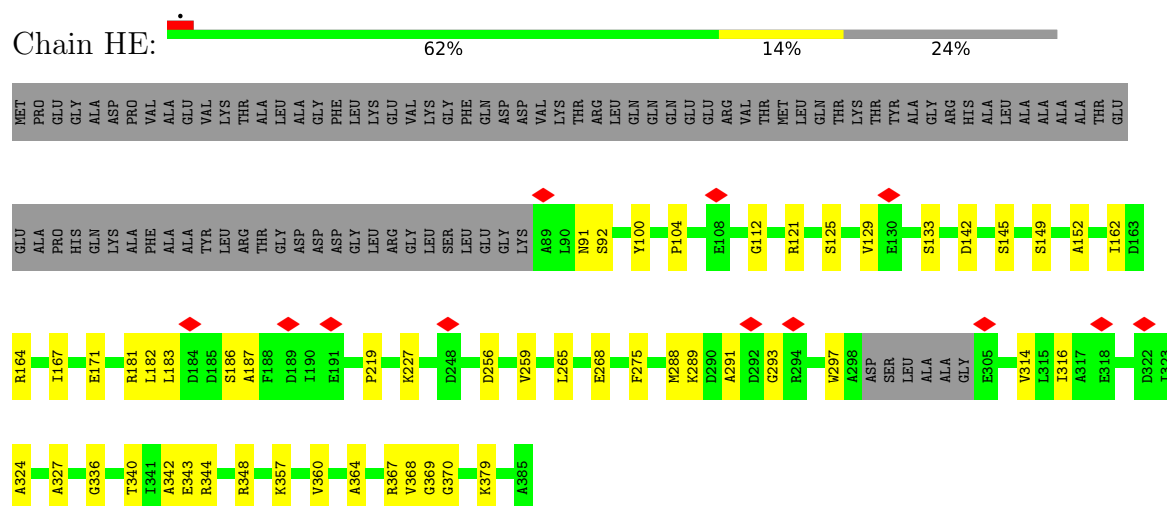
- Molecule 1: Phage major capsid protein, HK97 family



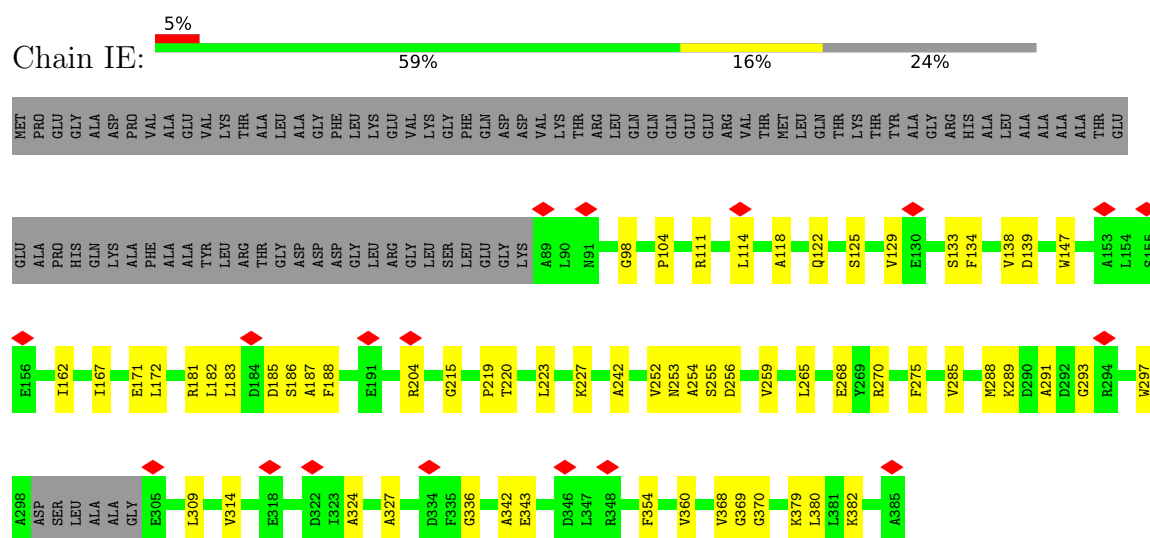
- Molecule 1: Phage major capsid protein, HK97 family



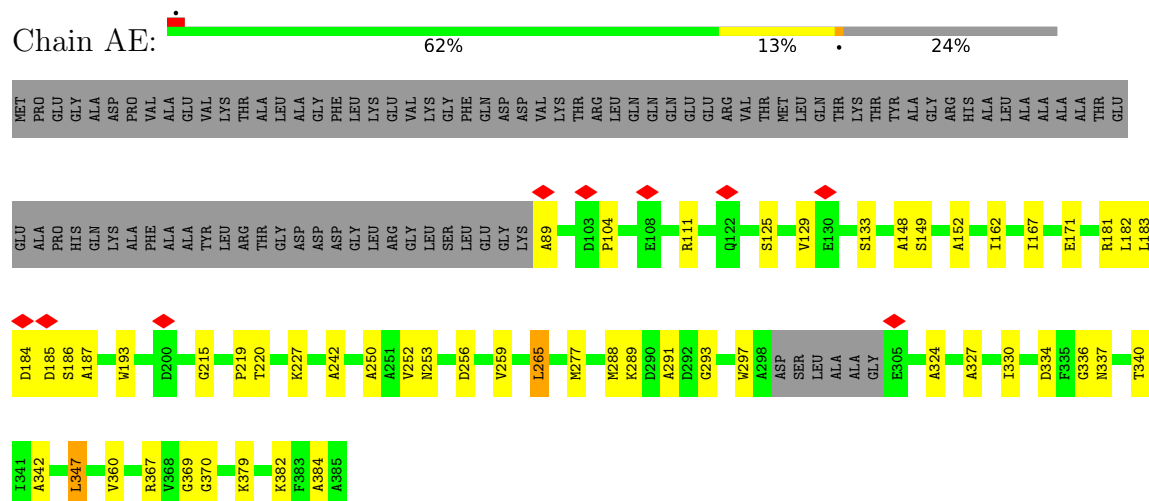
- Molecule 1: Phage major capsid protein, HK97 family



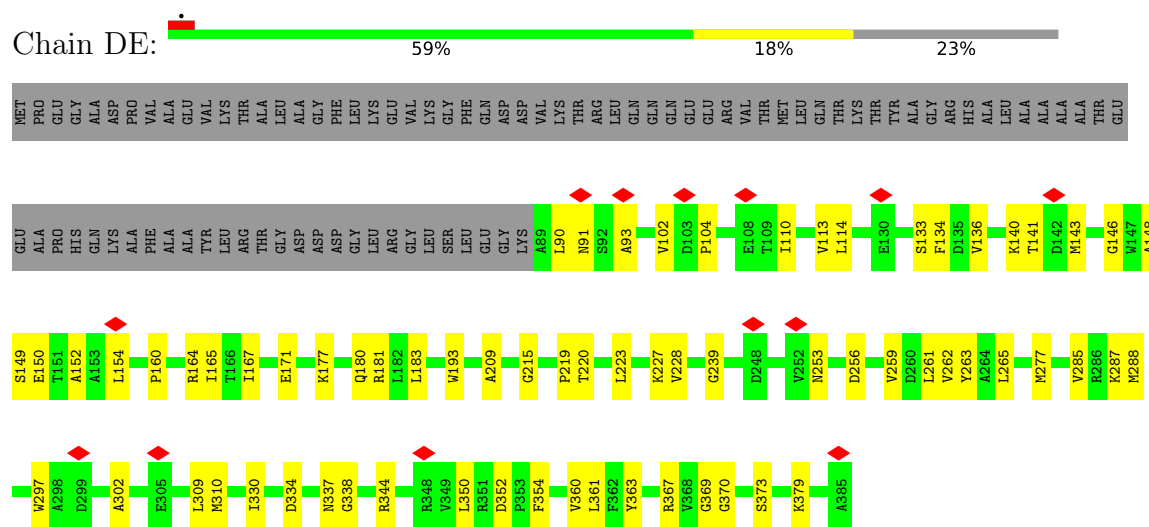
- Molecule 1: Phage major capsid protein, HK97 family



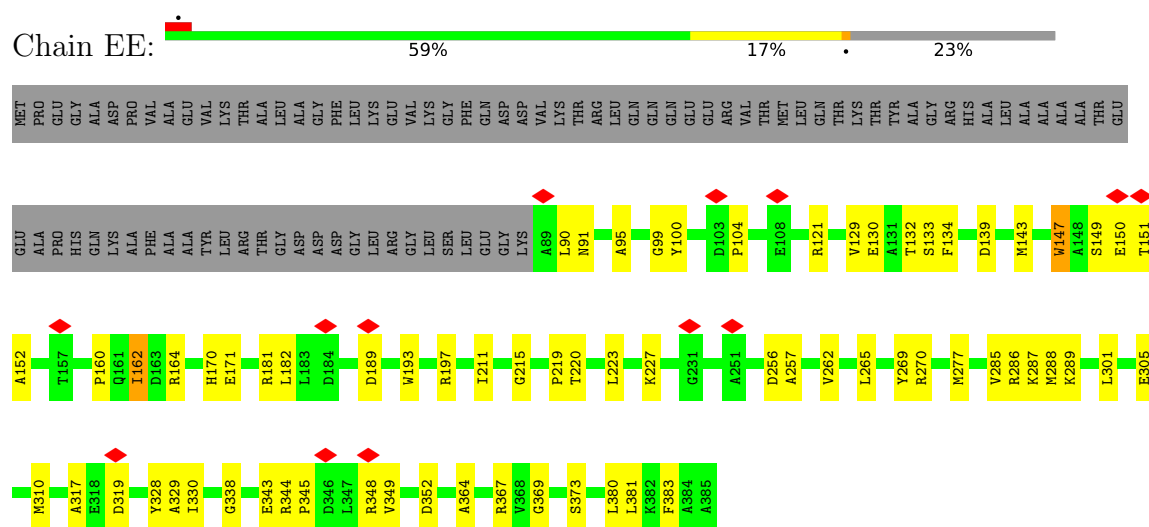
- Molecule 1: Phage major capsid protein, HK97 family



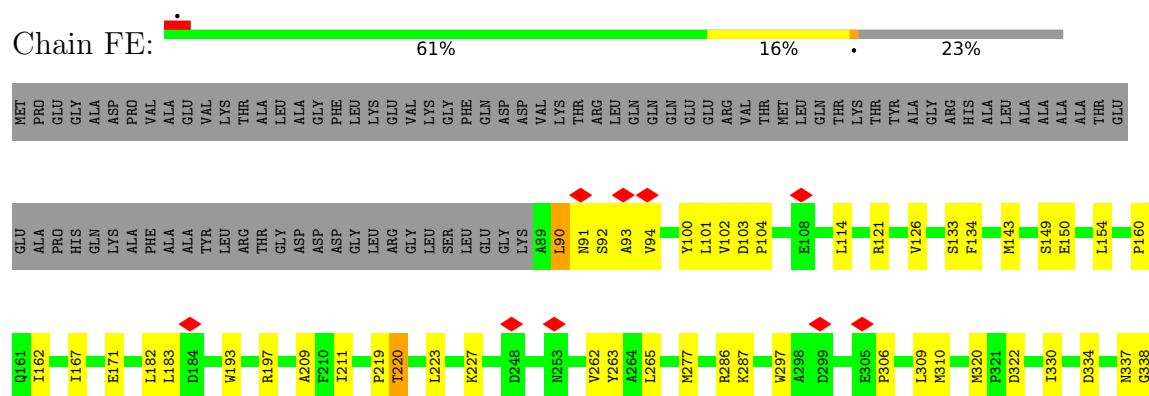
- Molecule 1: Phage major capsid protein, HK97 family

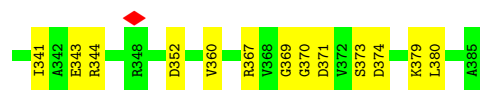


- Molecule 1: Phage major capsid protein, HK97 family



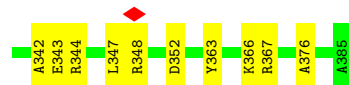
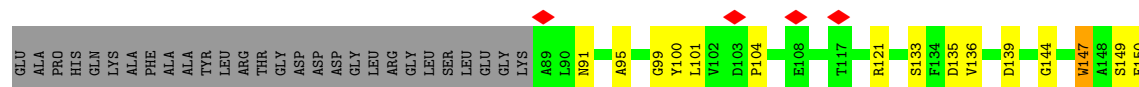
- Molecule 1: Phage major capsid protein, HK97 family





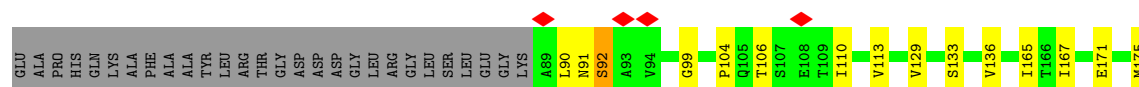
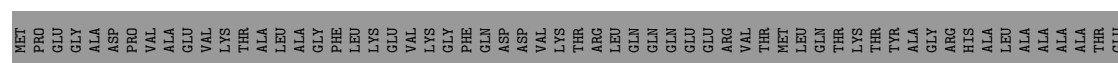
- Molecule 1: Phage major capsid protein, HK97 family

Chain GE: 63% 14% 23%



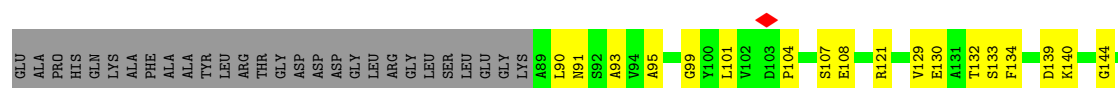
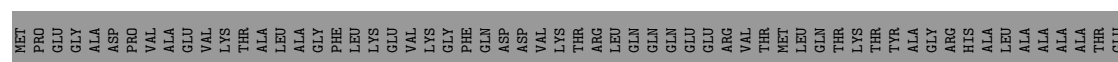
- Molecule 1: Phage major capsid protein, HK97 family

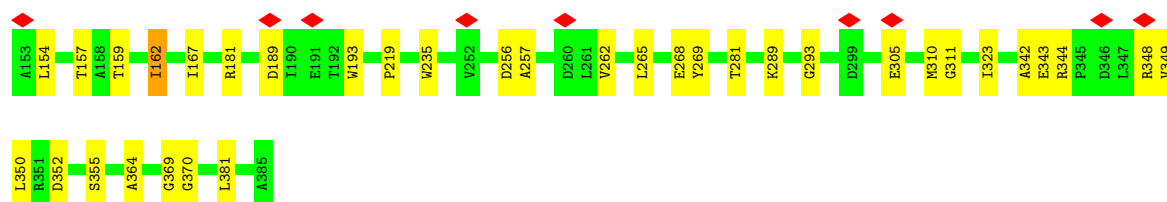
Chain BE: 63% 14% 23%



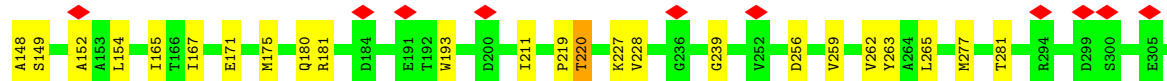
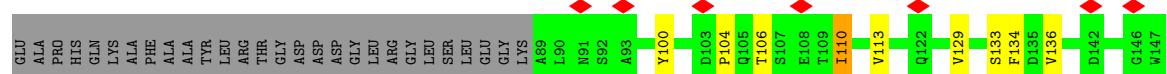
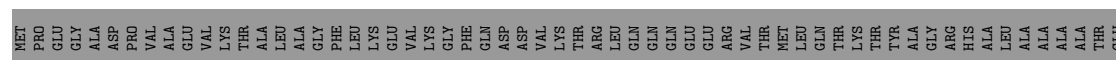
- Molecule 1: Phage major capsid protein, HK97 family

Chain CE: 63% 14% 23%

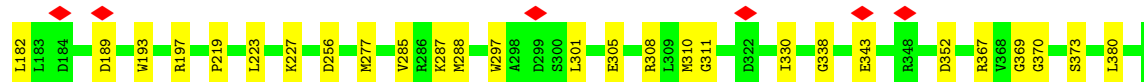
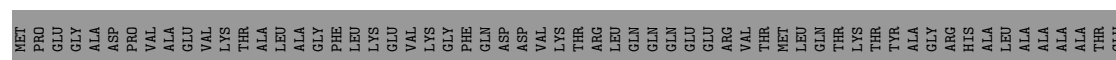




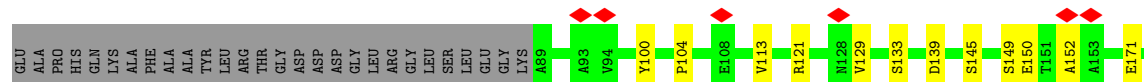
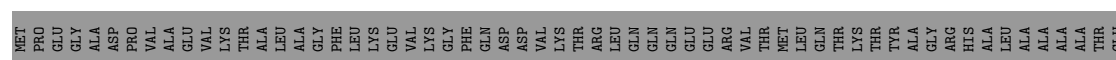
- Molecule 1: Phage major capsid protein, HK97 family



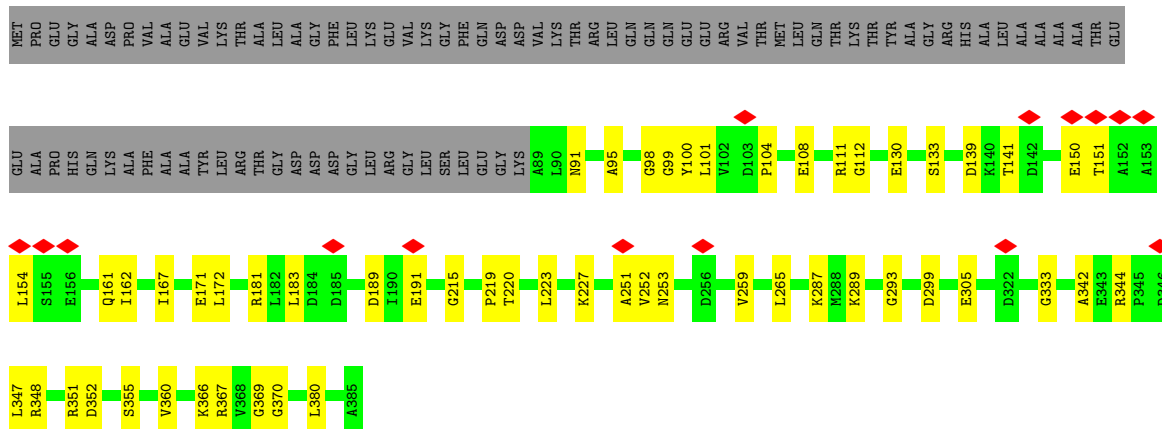
- Molecule 1: Phage major capsid protein, HK97 family



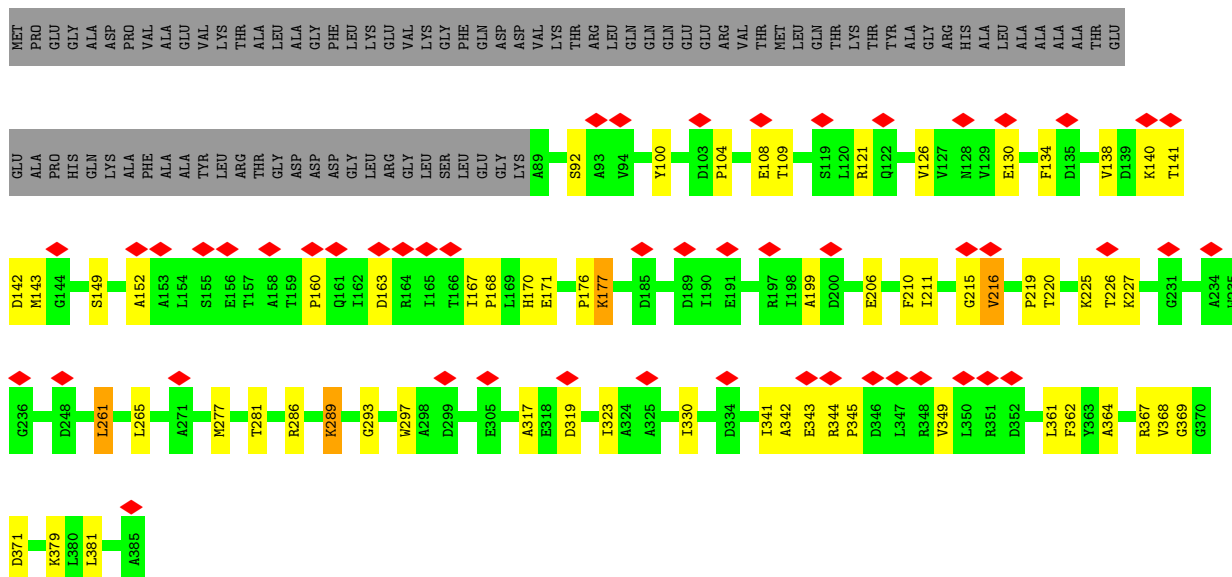
- Molecule 1: Phage major capsid protein, HK97 family



- Molecule 1: Phage major capsid protein, HK97 family

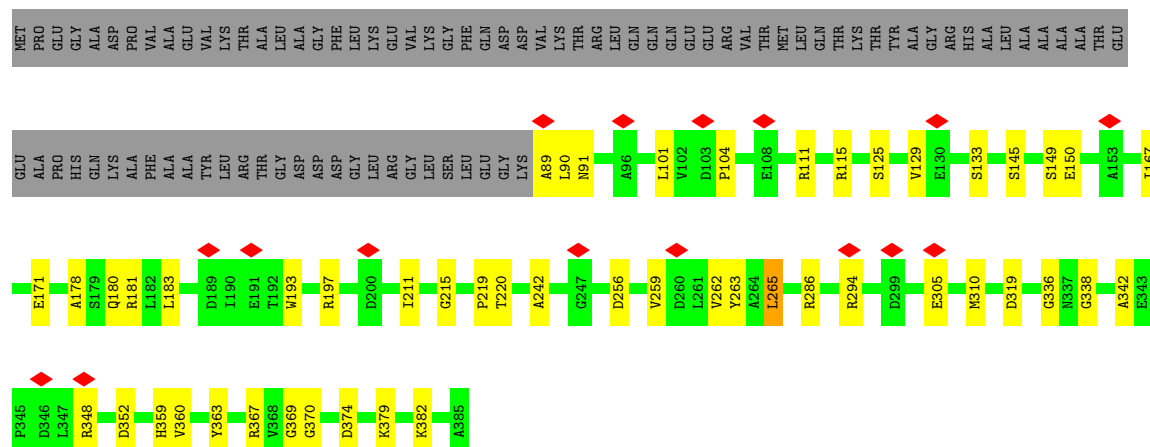


- Molecule 1: Phage major capsid protein, HK97 family

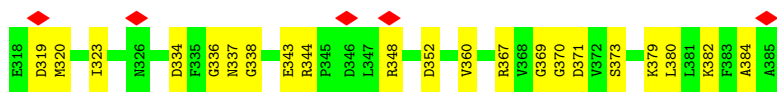


- Molecule 1: Phage major capsid protein, HK97 family



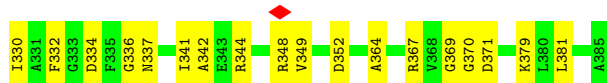
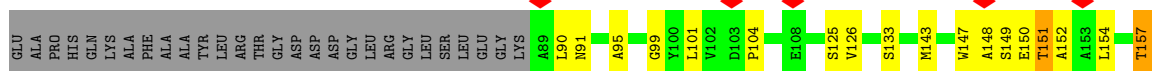
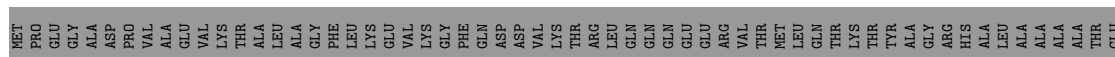


- | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| A152 | A153 | L154 | P160 | T167 | E171 | A178 | R181 | L182 | L183 | D184 | E191 | T192 | W193 | R197 | I211 | P219 | T220 | K225 | T236 | K227 | G247 | D256 | V259 | V262 | V263 | A264 | L265 | N277 | T281 | R286 | R294 | W297 | A298 | D299 | E305 | M310 | A317 | | | | | | | | | |
| GLU | ALA | PRO | GLY | HIS | GLN | LYS | PRO | PHE | ALA | ALA | ALA | TYR | LEU | LYS | THR | ARG | THR | GLY | LEU | GLY | ASP | ASP | GLY | LEU | LEU | GLN | GLY | GLY | LYS | THR | LYS | THR | TYR | ALA | GLY | ARG | HIS | ALA | LEU | ALA | ALA | ALA | ALA | ALA | THR | GLU |



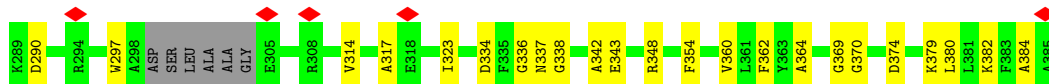
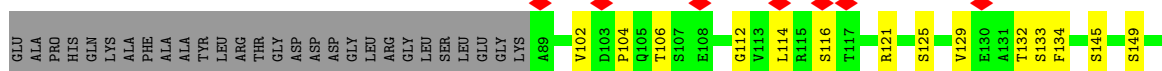
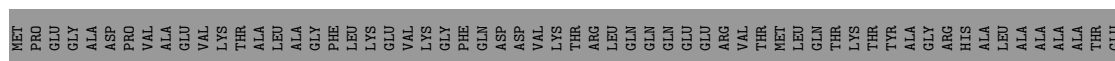
- Molecule 1: Phage major capsid protein, HK97 family

Chain P9: 61% 15% 23%



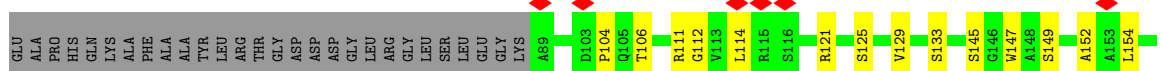
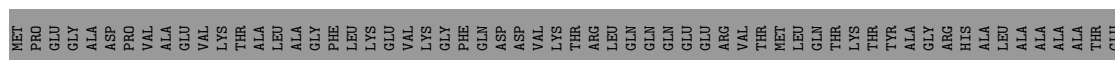
- Molecule 1: Phage major capsid protein, HK97 family

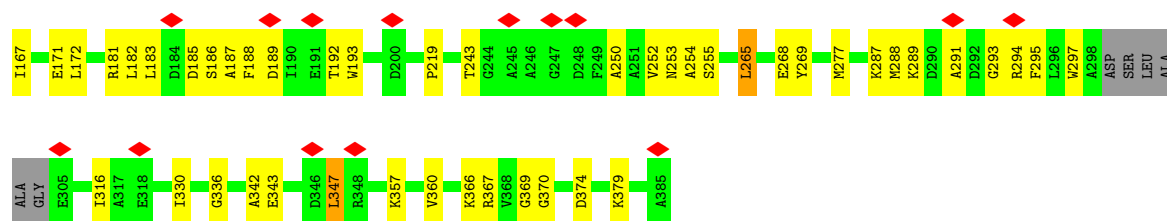
Chain W9: 5% 58% 17% 24%



- Molecule 1: Phage major capsid protein, HK97 family

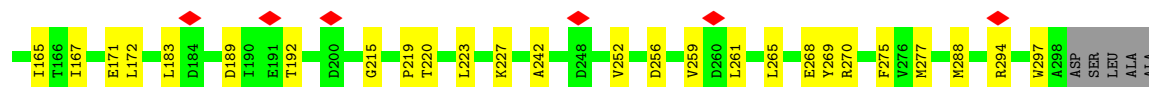
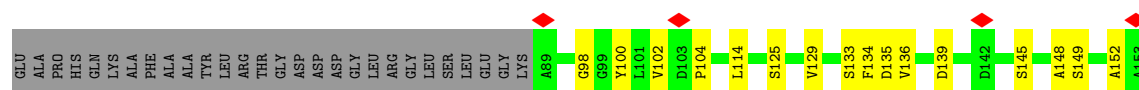
Chain U9: 5% 60% 15% 24%





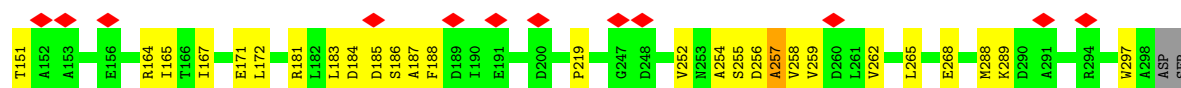
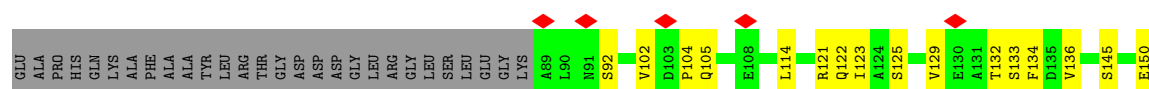
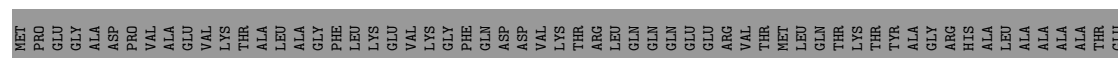
- Molecule 1: Phage major capsid protein, HK97 family

Chain T9: 60% 15% 24%



- Molecule 1: Phage major capsid protein, HK97 family

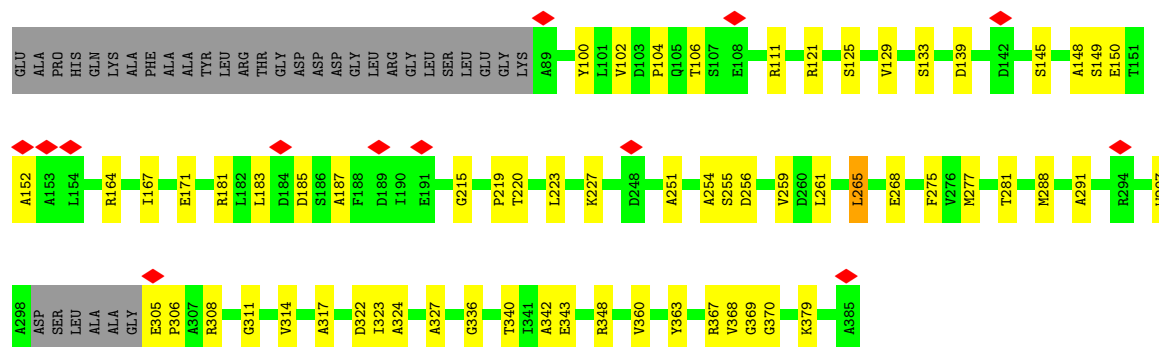
Chain S9: 5% 61% 15% 24%



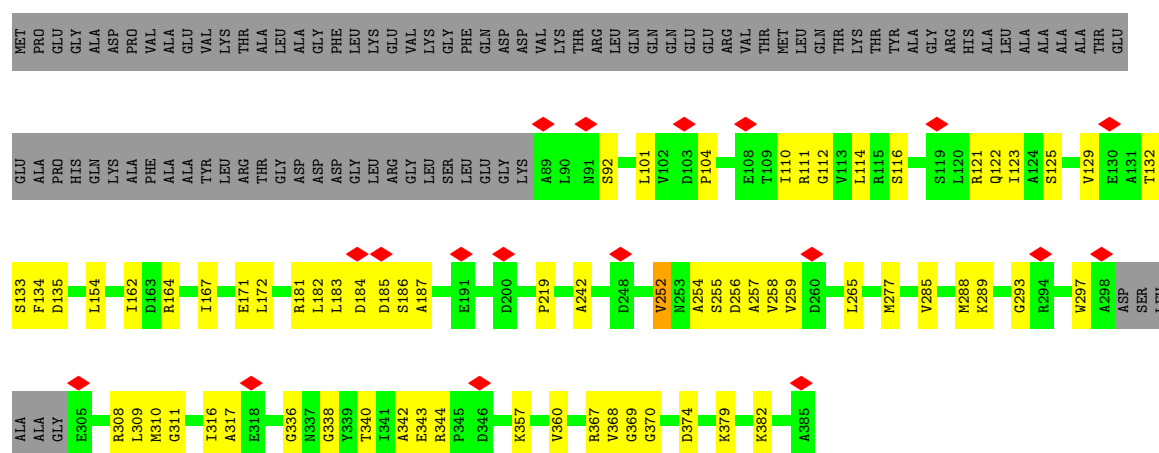
- Molecule 1: Phage major capsid protein, HK97 family

Chain K9: 59% 16% 24%

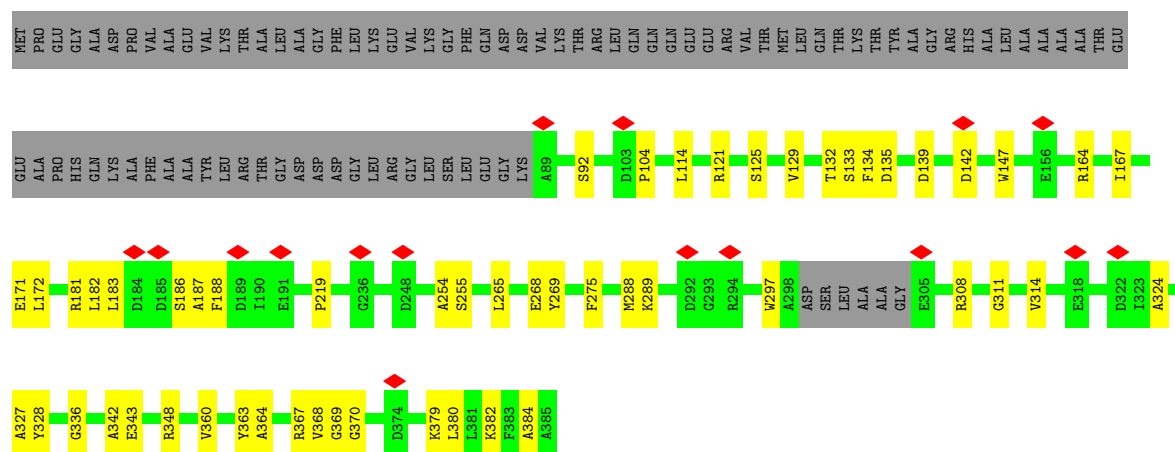




- Molecule 1: Phage major capsid protein, HK97 family

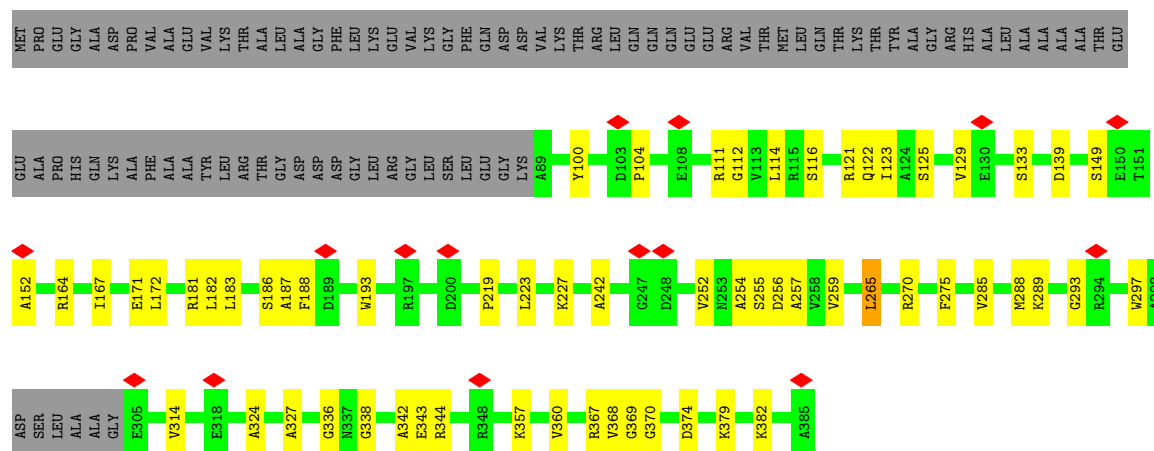


- Molecule 1: Phage major capsid protein, HK97 family

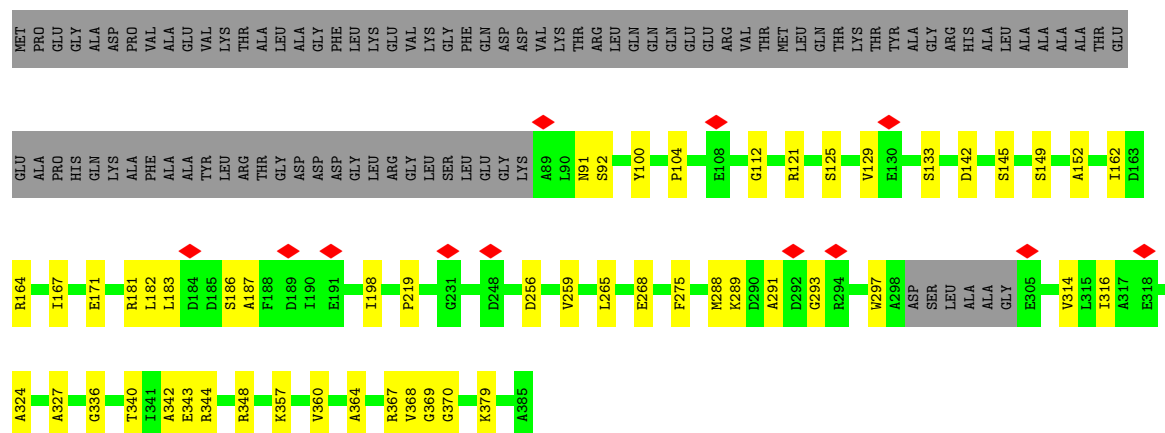


- Molecule 1: Phage major capsid protein, HK97 family

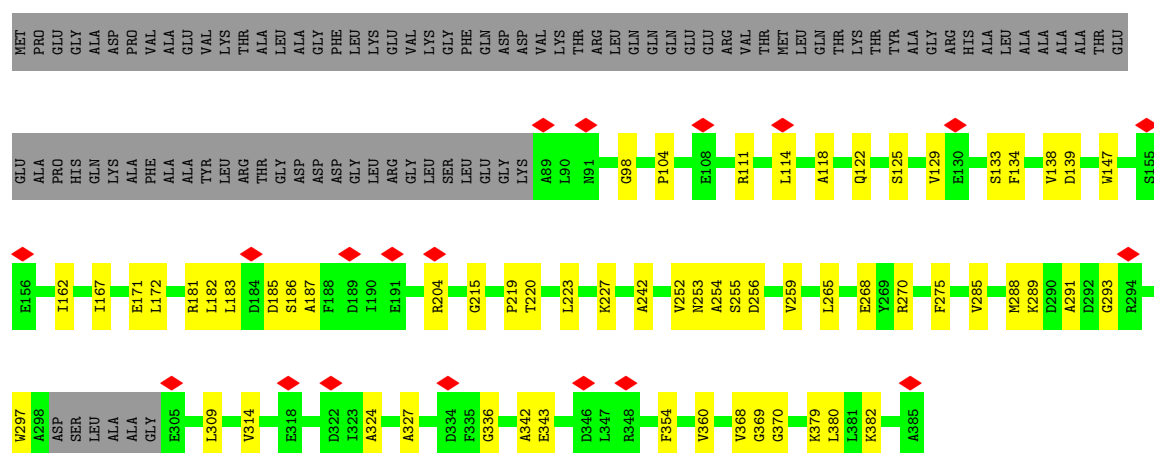




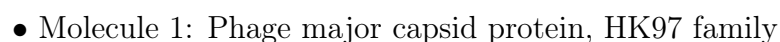
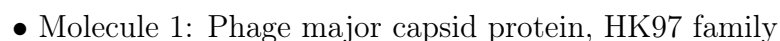
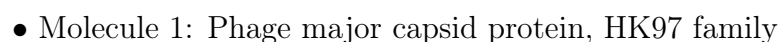
- Molecule 1: Phage major capsid protein, HK97 family

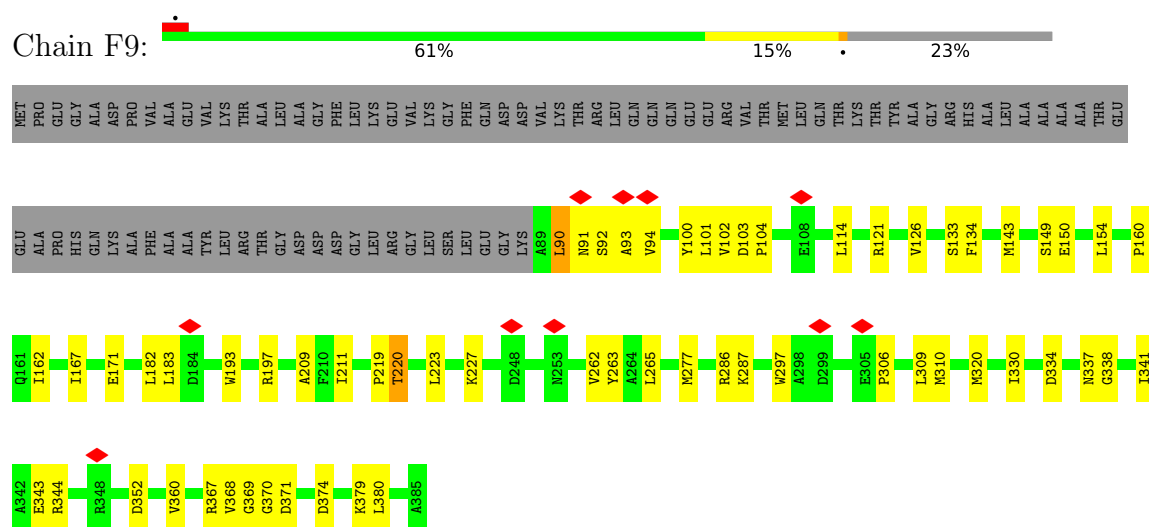


- Molecule 1: Phage major capsid protein, HK97 family

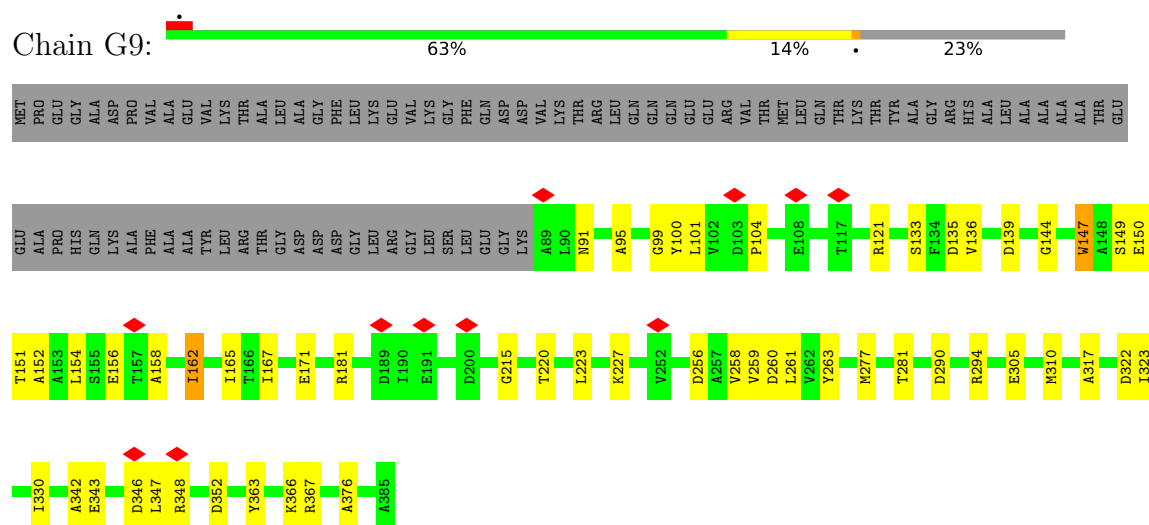


- Molecule 1: Phage major capsid protein, HK97 family

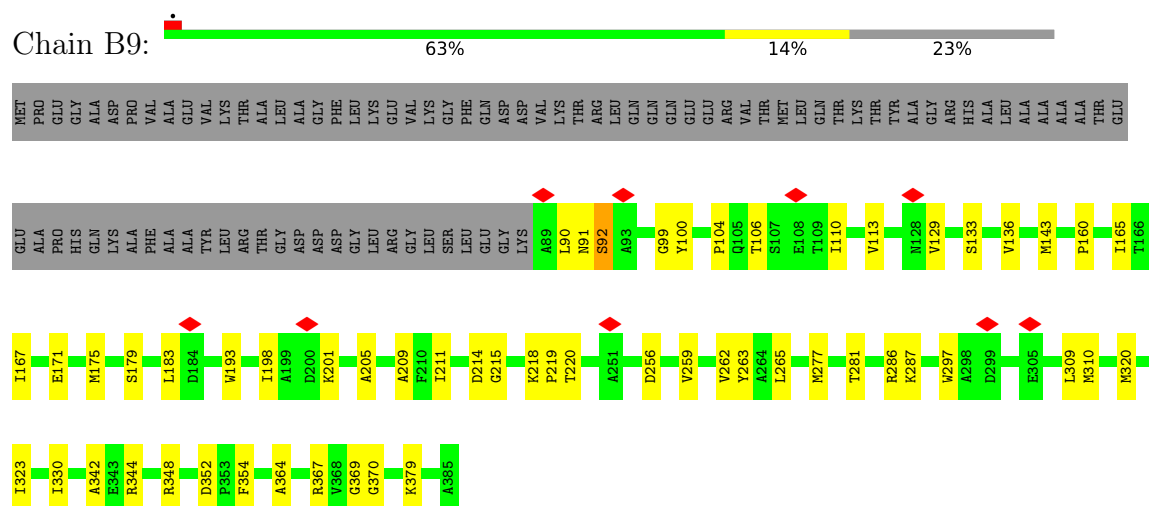




- Molecule 1: Phage major capsid protein, HK97 family

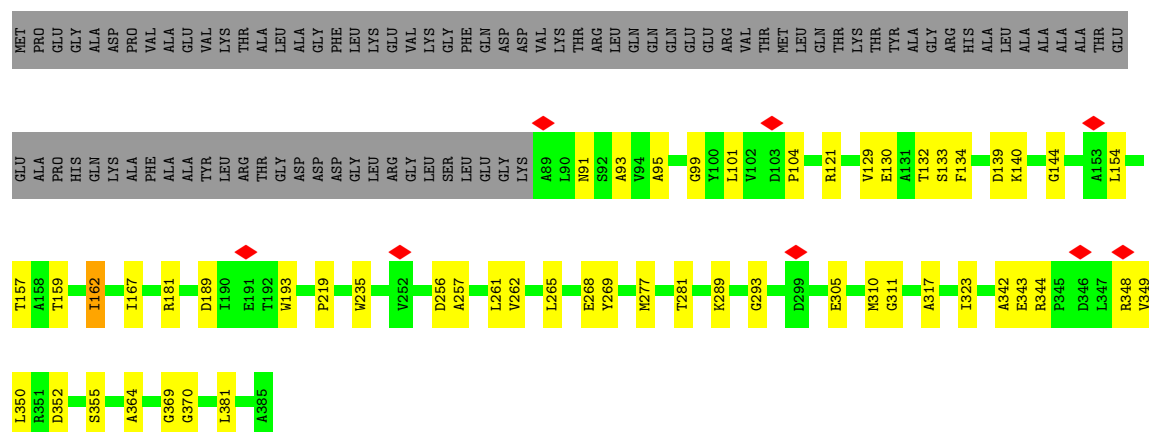


- Molecule 1: Phage major capsid protein, HK97 family



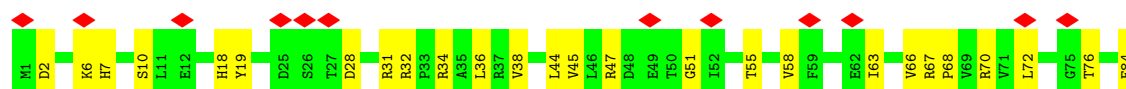
- Molecule 1: Phage major capsid protein, HK97 family

Chain C9:  63% 14% 23%



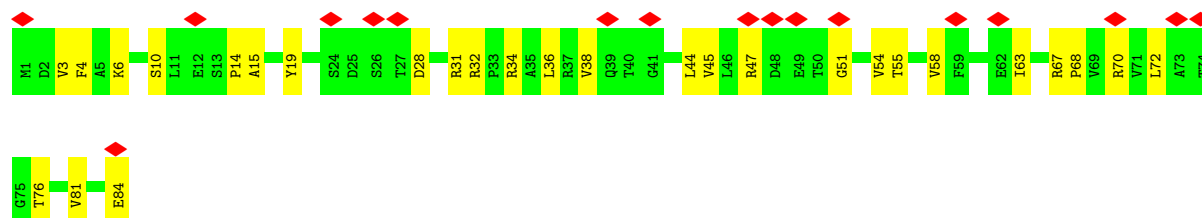
• Molecule 2: Uncharacterized protein

Chain E3:  14% 69% 31%



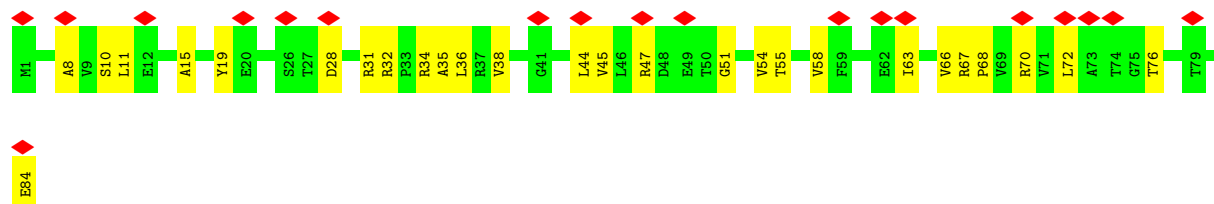
• Molecule 2: Uncharacterized protein

Chain D3:  20% 67% 33%



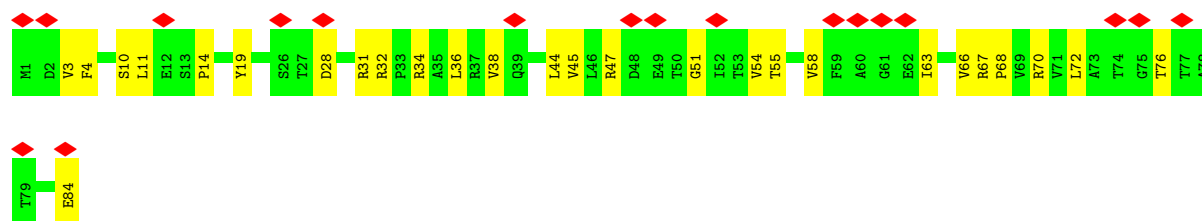
• Molecule 2: Uncharacterized protein

Chain A3:  23% 68% 32%

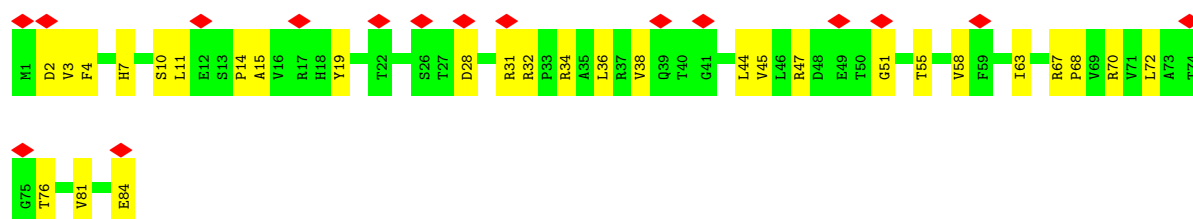


• Molecule 2: Uncharacterized protein

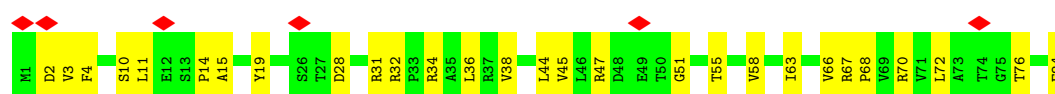
Chain C3:  21% 68% 32%



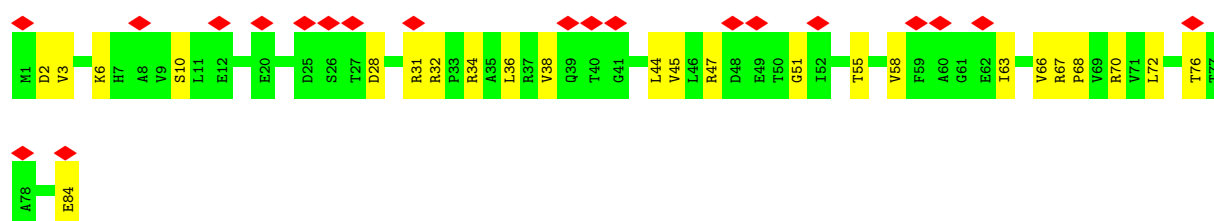
- Molecule 2: Uncharacterized protein



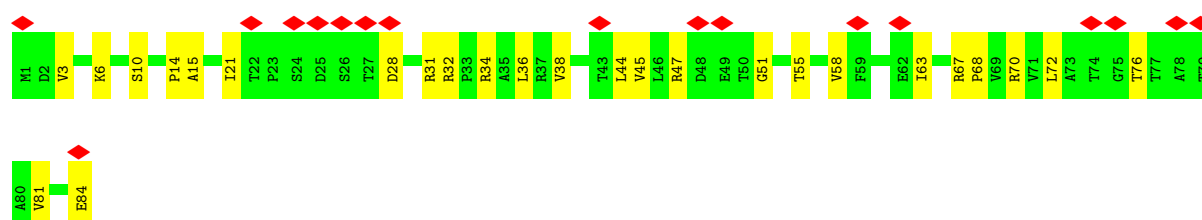
- Molecule 2: Uncharacterized protein



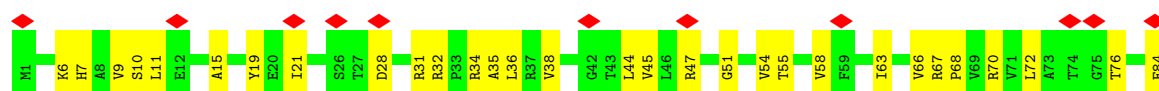
- Molecule 2: Uncharacterized protein



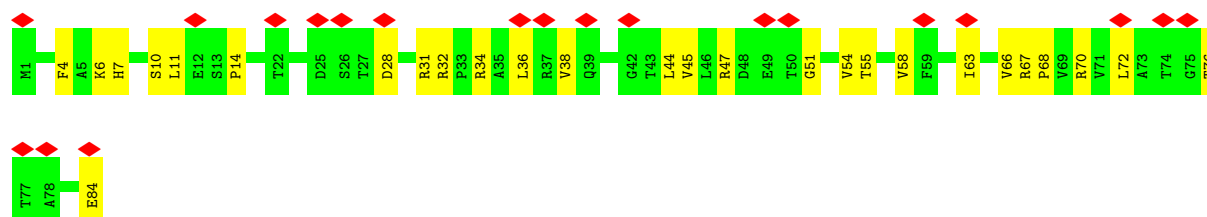
- Molecule 2: Uncharacterized protein



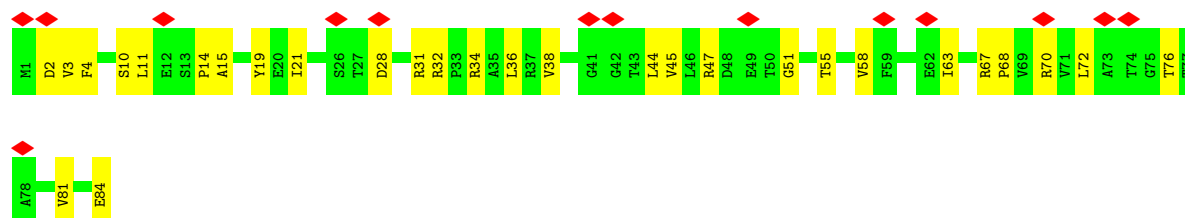
- Molecule 2: Uncharacterized protein



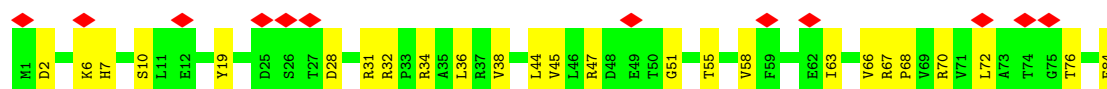
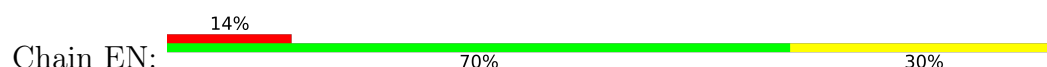
- Molecule 2: Uncharacterized protein



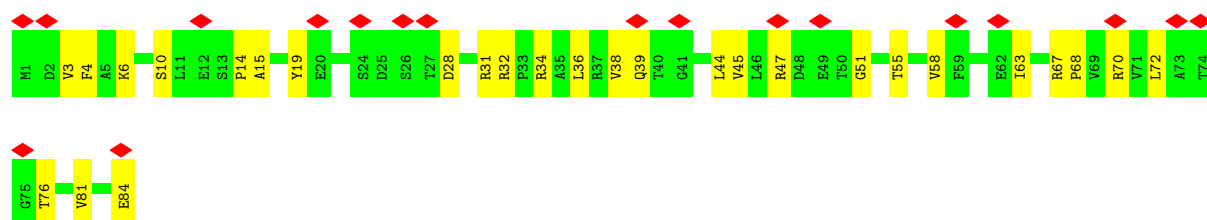
- Molecule 2: Uncharacterized protein



- Molecule 2: Uncharacterized protein

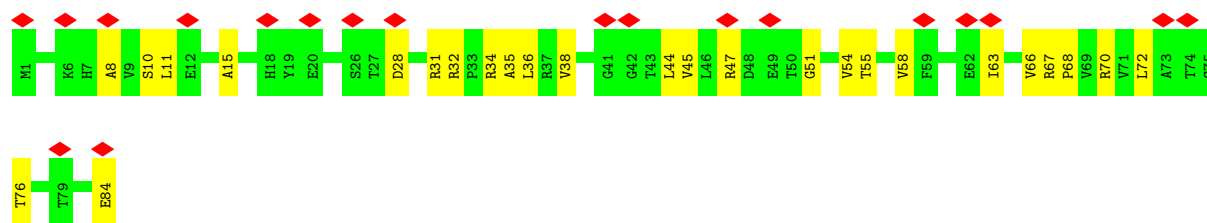


- Molecule 2: Uncharacterized protein

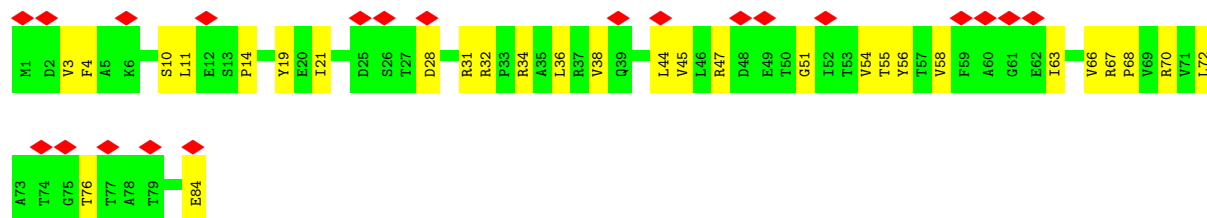


- Molecule 2: Uncharacterized protein

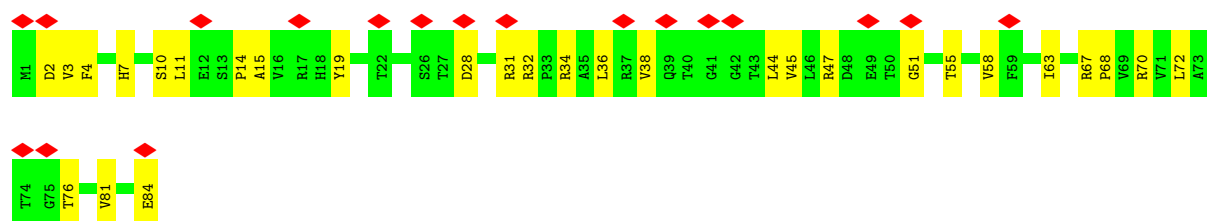




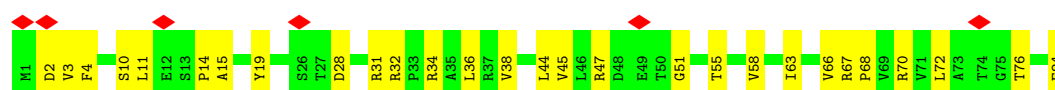
- Molecule 2: Uncharacterized protein



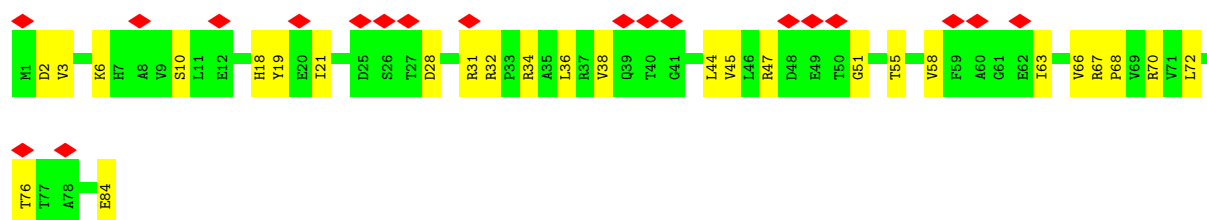
- Molecule 2: Uncharacterized protein



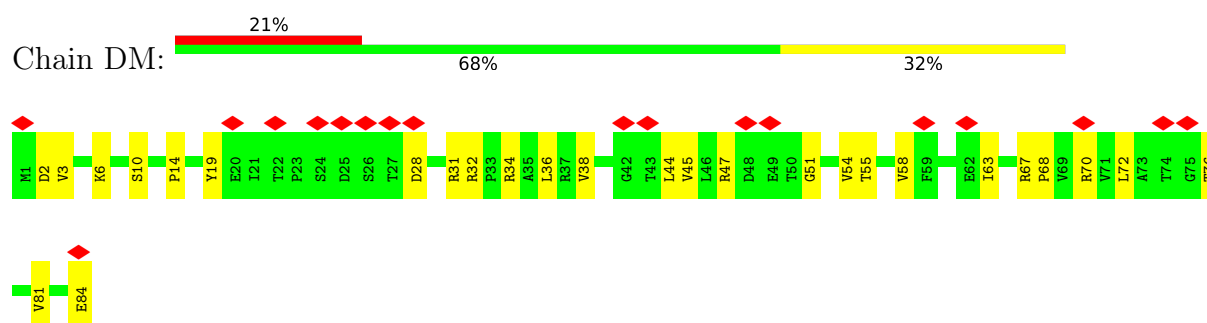
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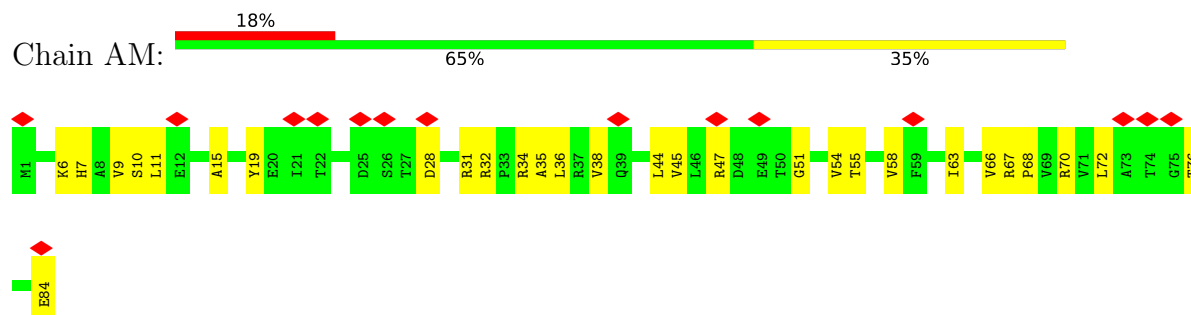
- Molecule 2: Uncharacterized protein



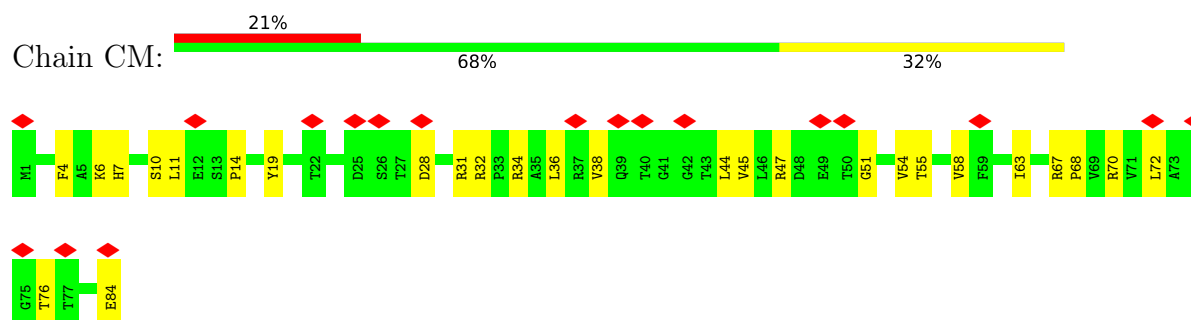
- Molecule 2: Uncharacterized protein



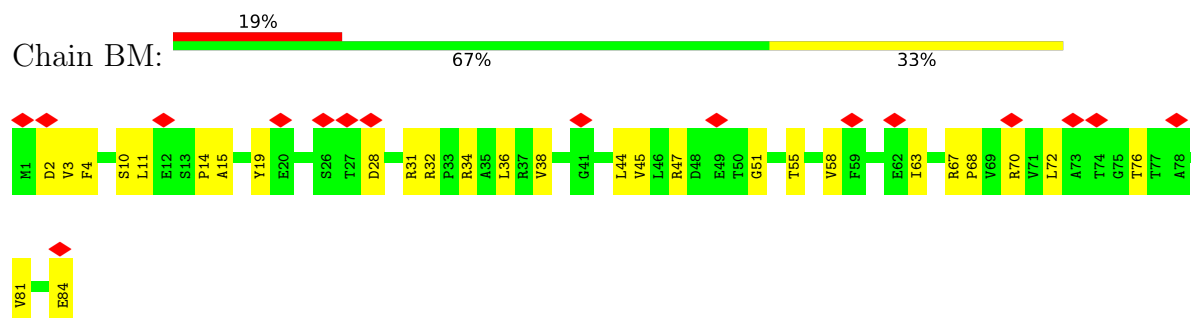
- Molecule 2: Uncharacterized protein



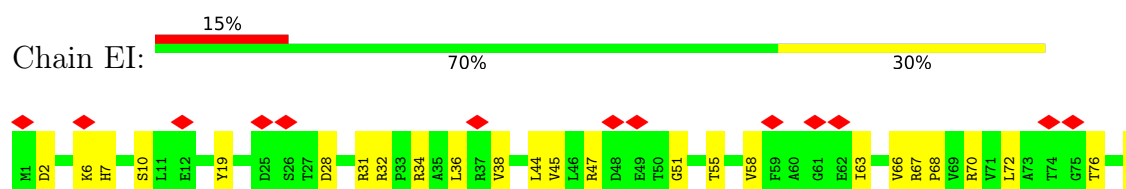
- Molecule 2: Uncharacterized protein



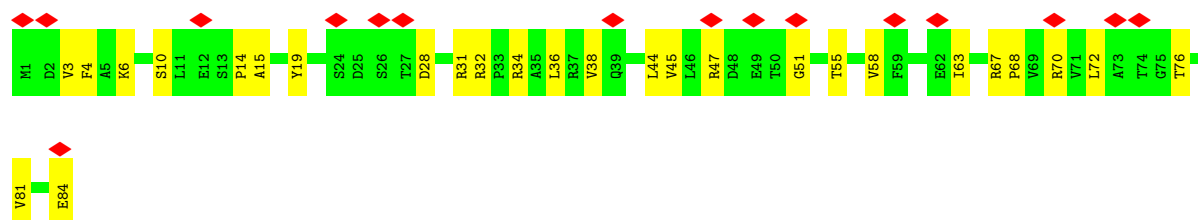
- Molecule 2: Uncharacterized protein



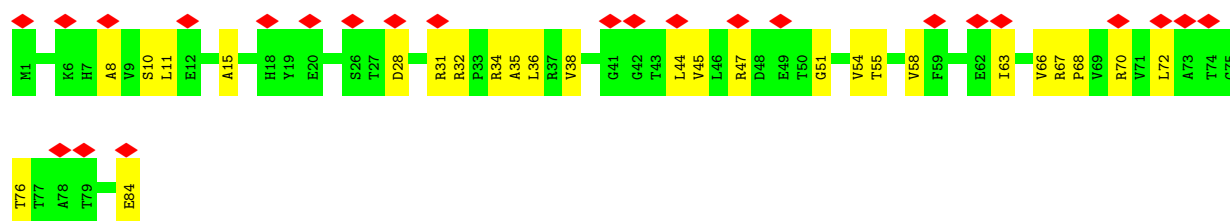
- Molecule 2: Uncharacterized protein



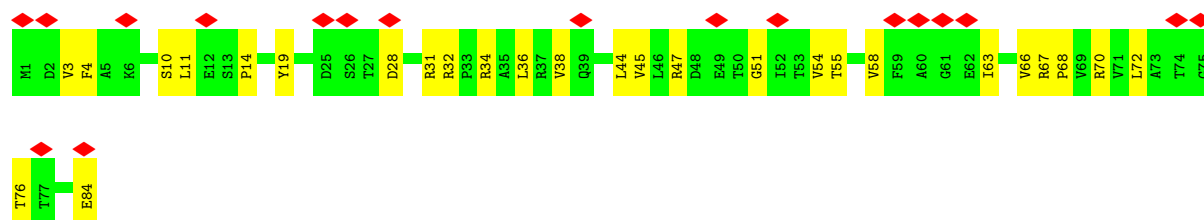
- Molecule 2: Uncharacterized protein



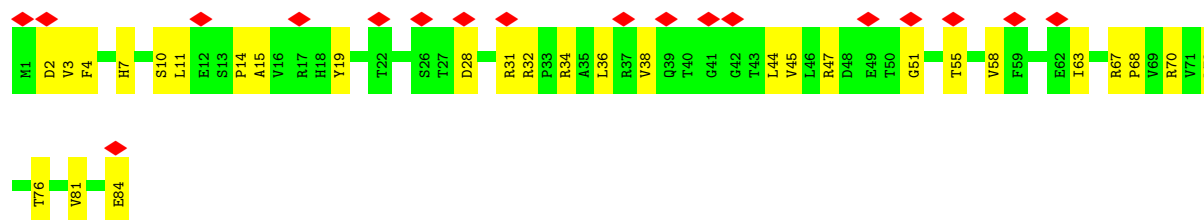
- Molecule 2: Uncharacterized protein



- Molecule 2: Uncharacterized protein



- Molecule 2: Uncharacterized protein

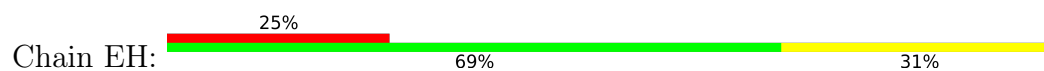


- Molecule 2: Uncharacterized protein

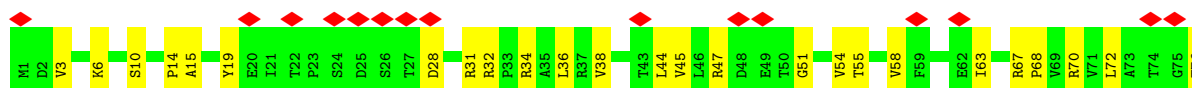




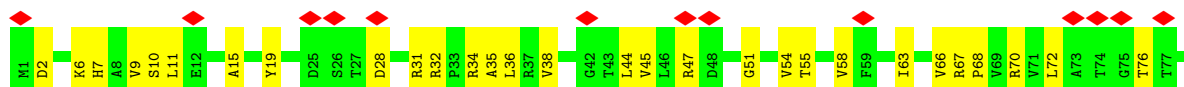
- Molecule 2: Uncharacterized protein



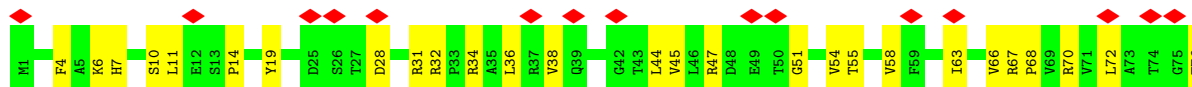
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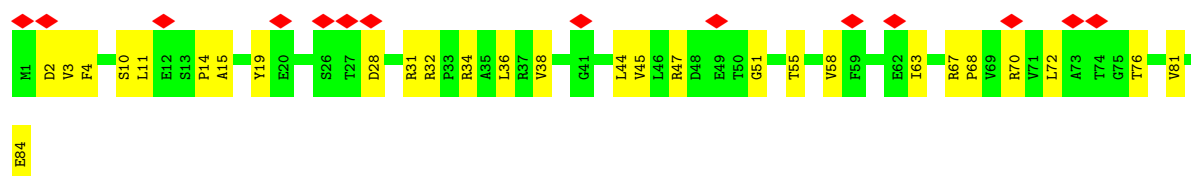
- Molecule 2: Uncharacterized protein



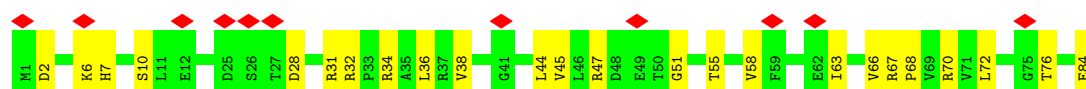
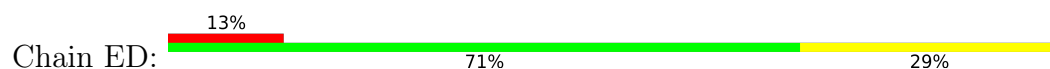
- Molecule 2: Uncharacterized protein



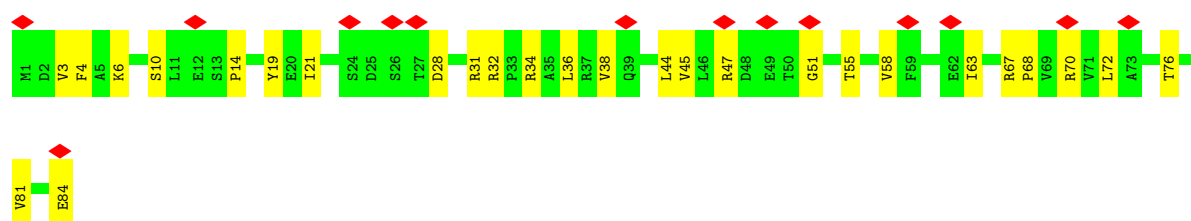
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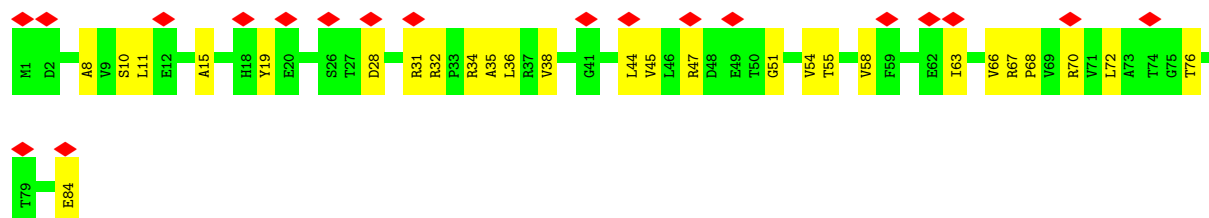
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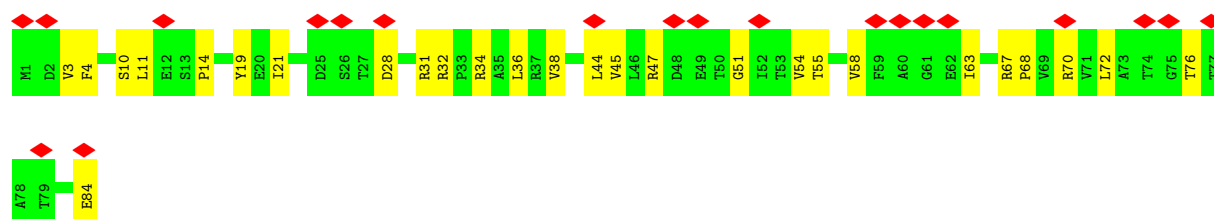
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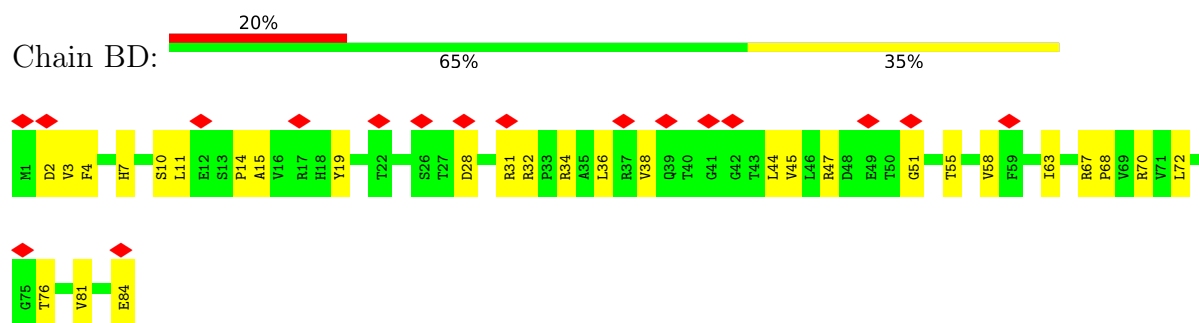
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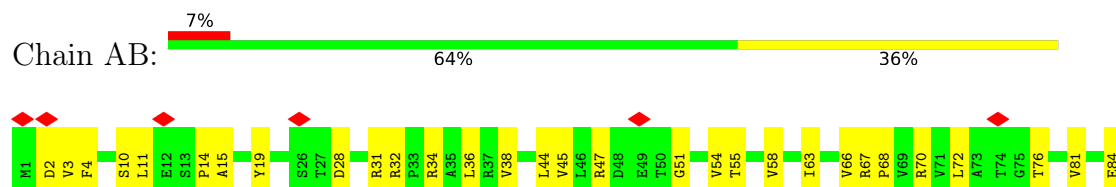
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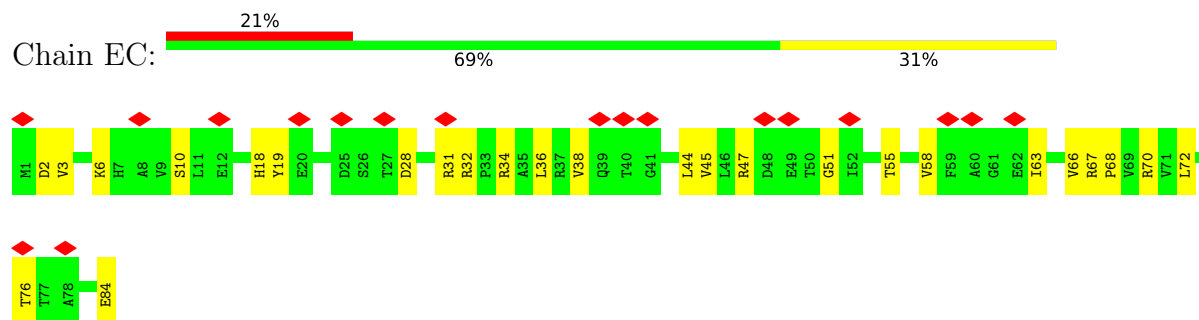
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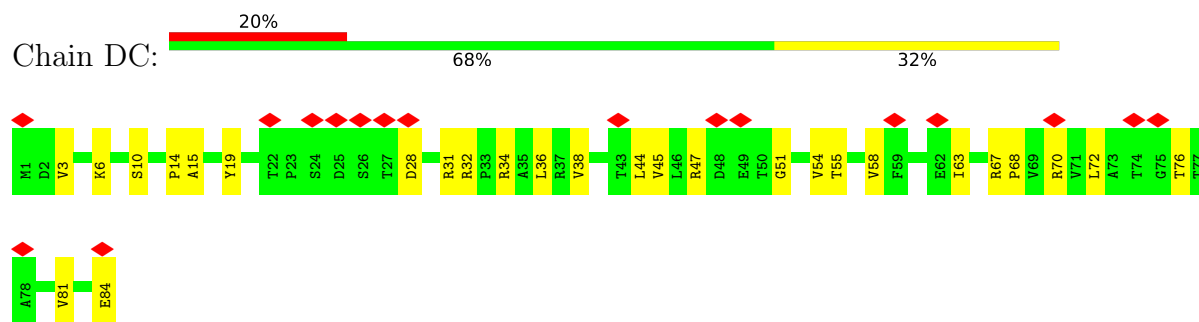
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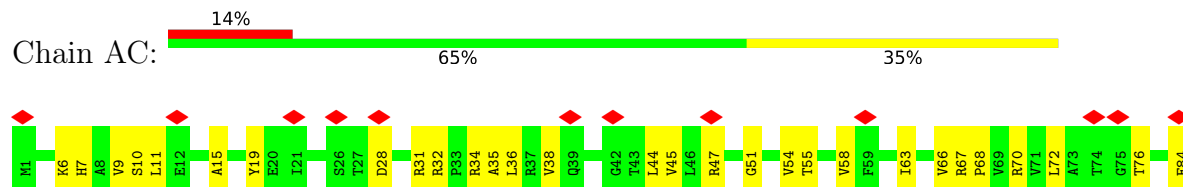
- Molecule 2: Uncharacterized protein



- Molecule 2: Uncharacterized protein

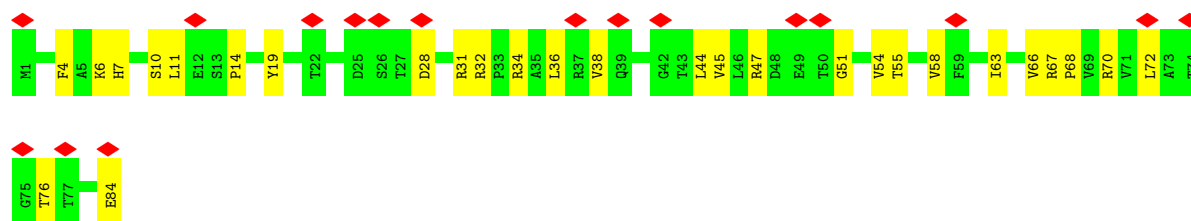


- Molecule 2: Uncharacterized protein

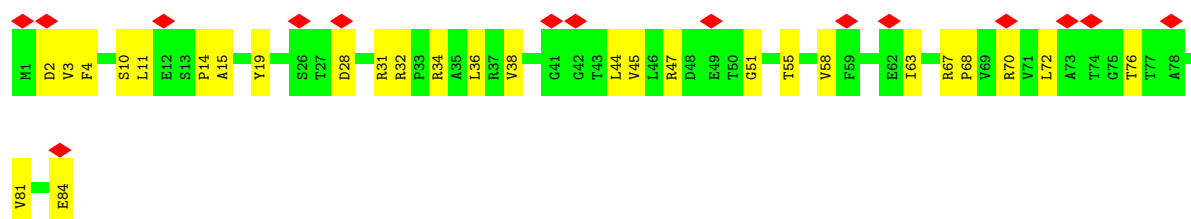


- Molecule 2: Uncharacterized protein

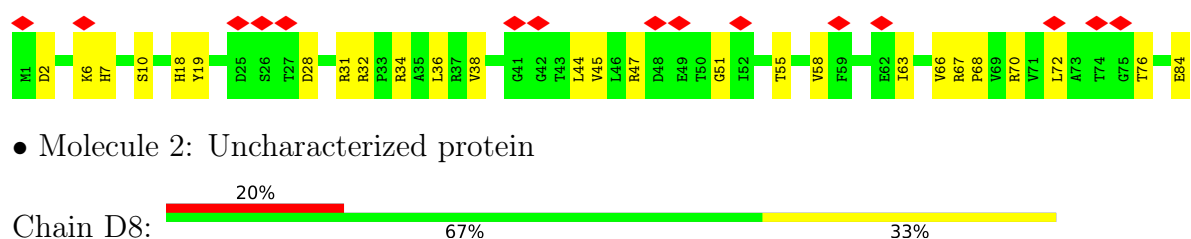




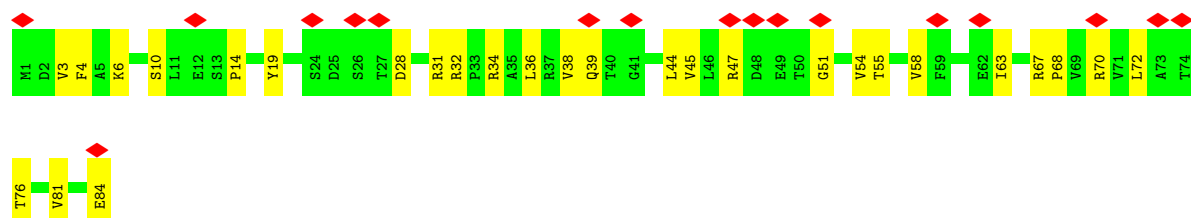
- Molecule 2: Uncharacterized protein



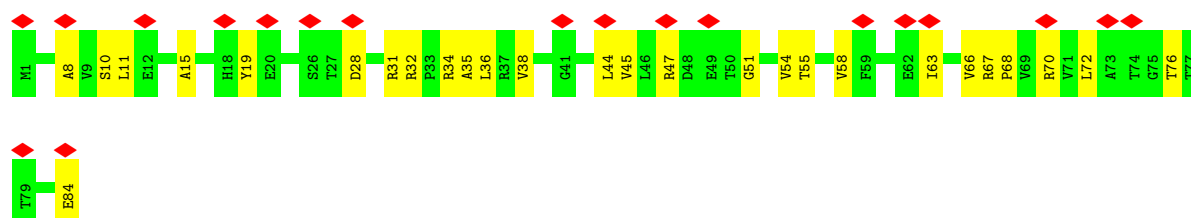
- Molecule 2: Uncharacterized protein



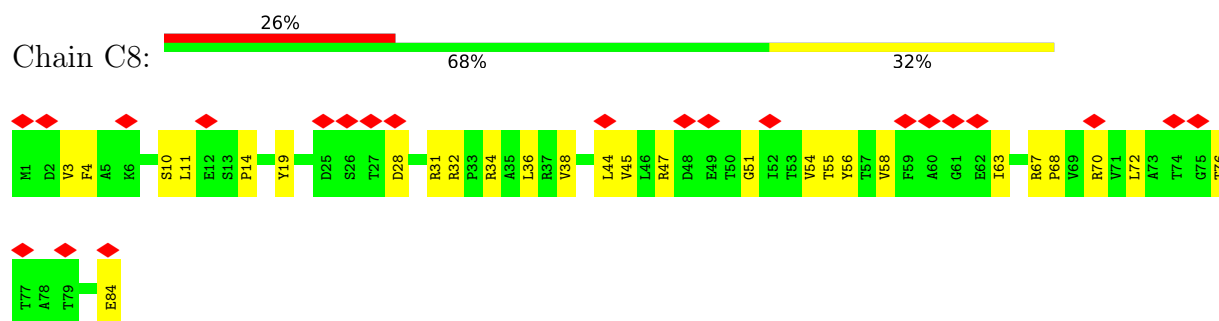
- Molecule 2: Uncharacterized protein



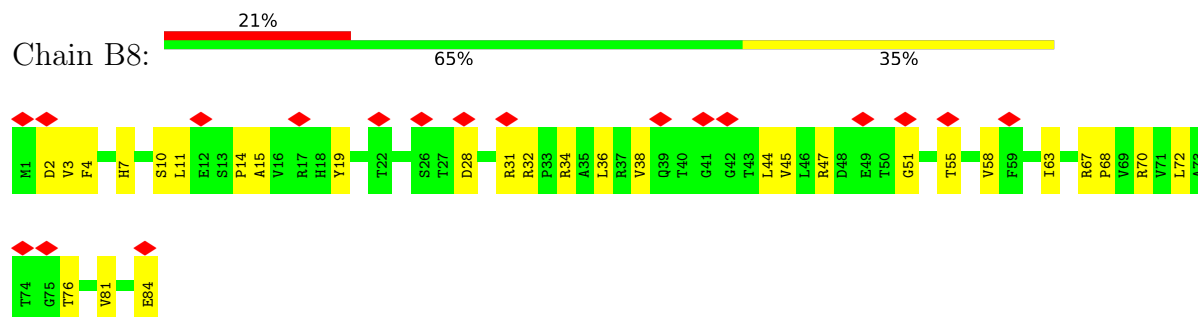
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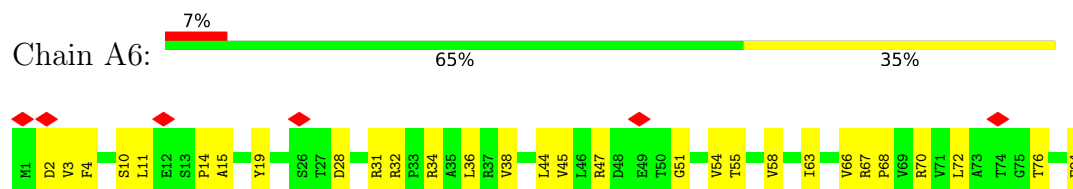
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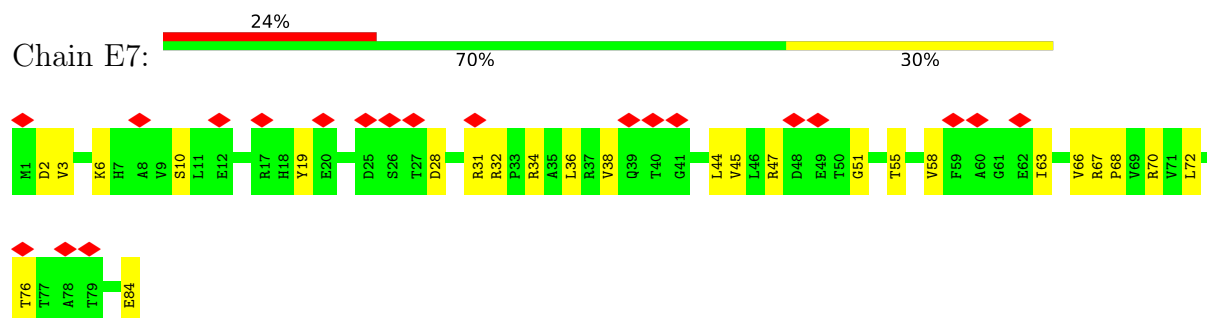
- Molecule 2: Uncharacterized protein



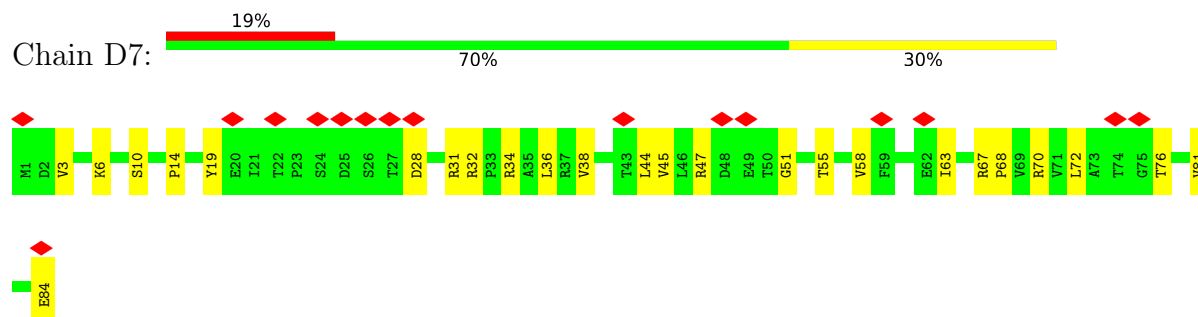
- Molecule 2: Uncharacterized protein

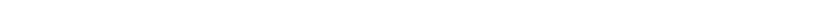


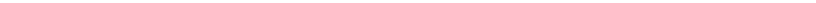
- Molecule 2: Uncharacterized protein

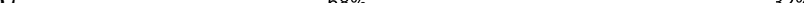


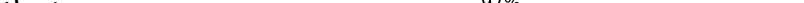
- Molecule 2: Uncharacterized protein



Chain A7: 

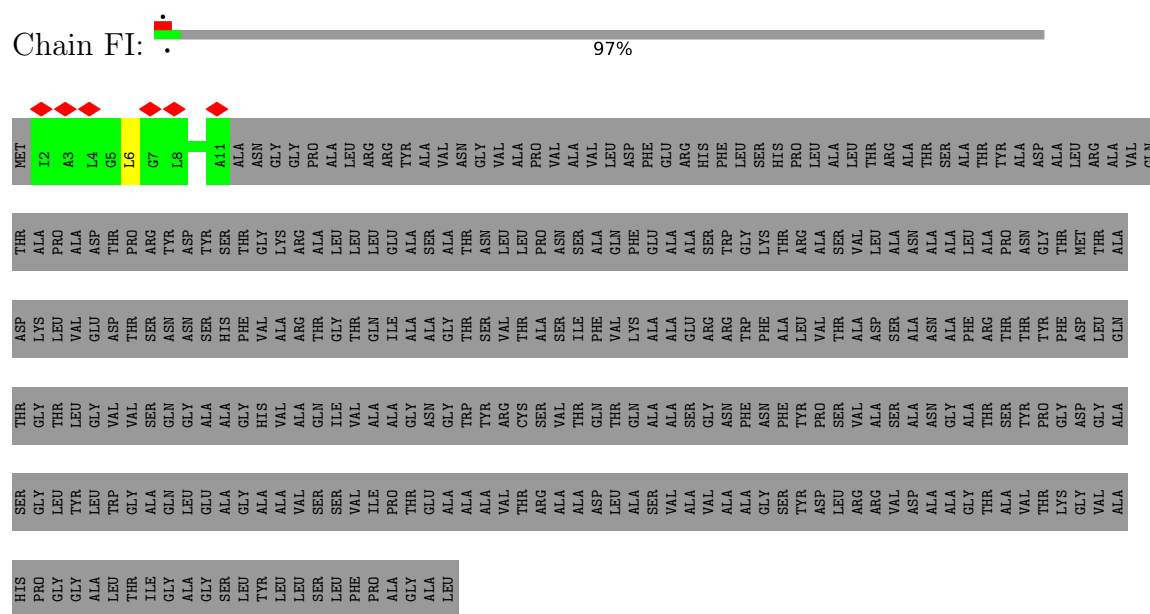
Chain C7:  21% 69% 31%

Chain B7: 

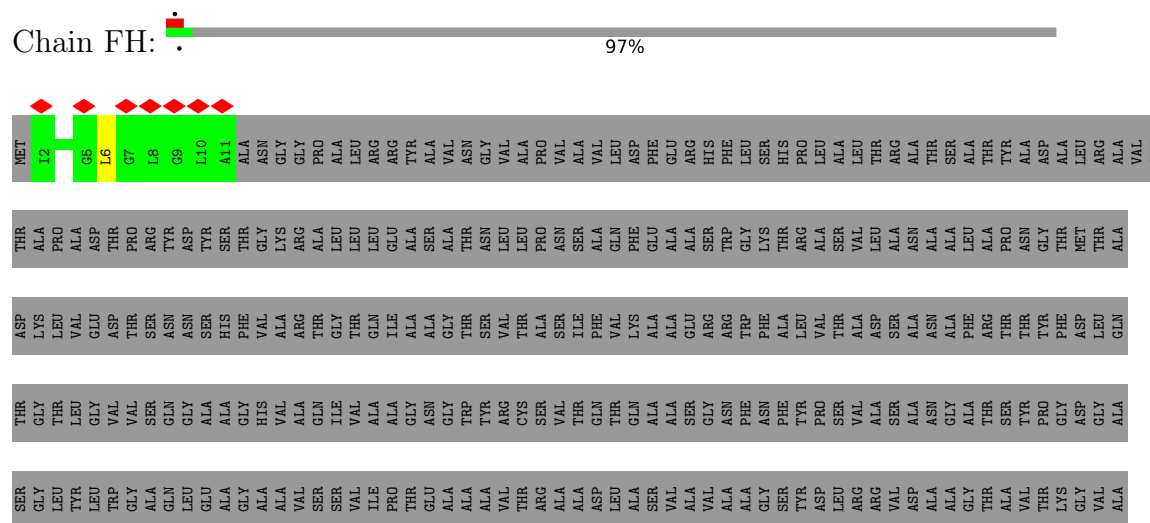
Chain F3: 

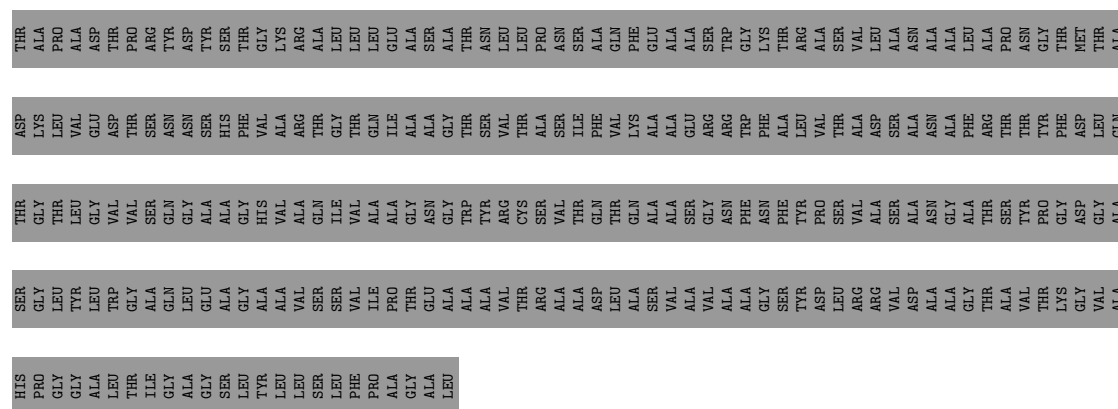


- Molecule 3: Uncharacterized protein

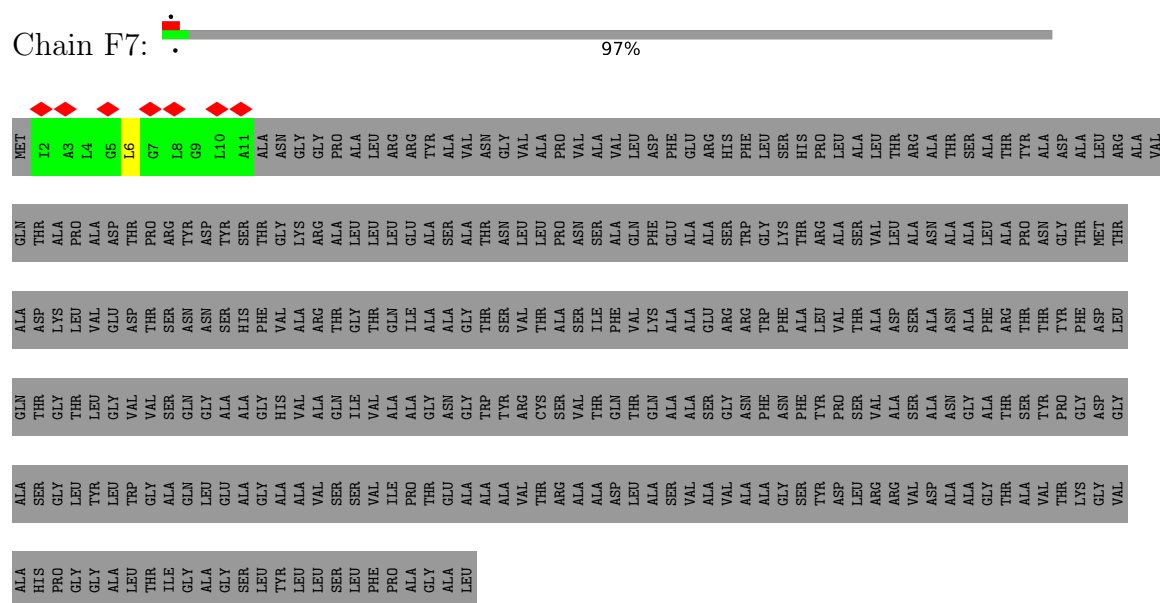


- Molecule 3: Uncharacterized protein

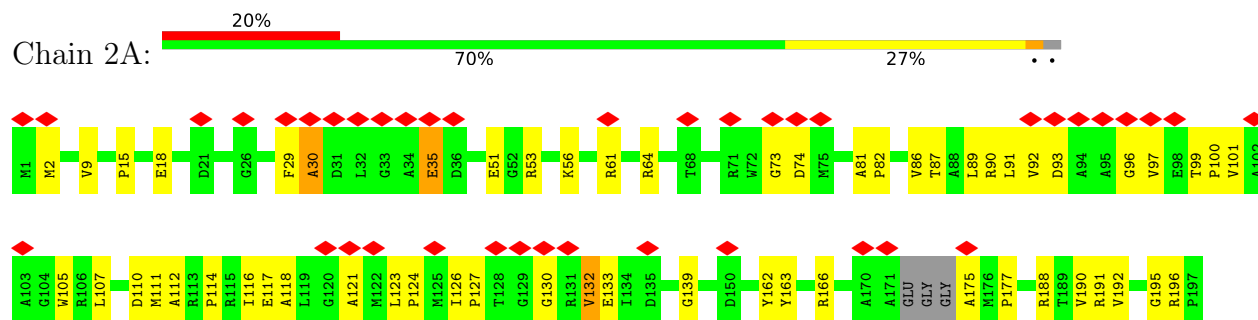




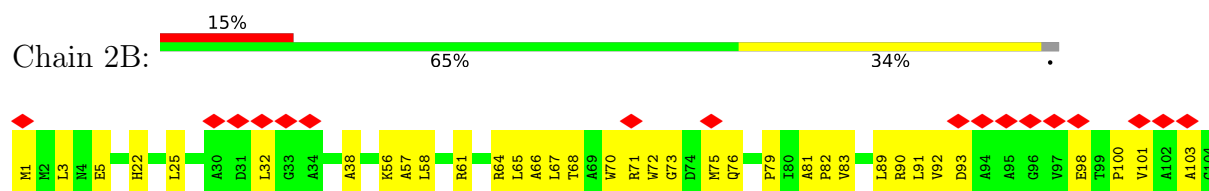
- Molecule 3: Uncharacterized protein

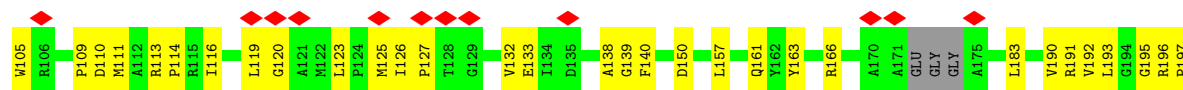


- Molecule 4: Uncharacterized protein

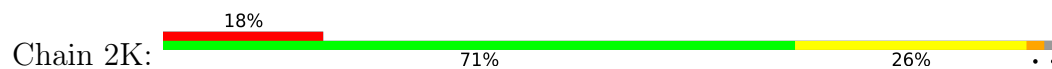


- Molecule 4: Uncharacterized protein

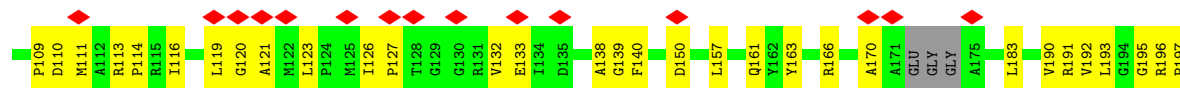
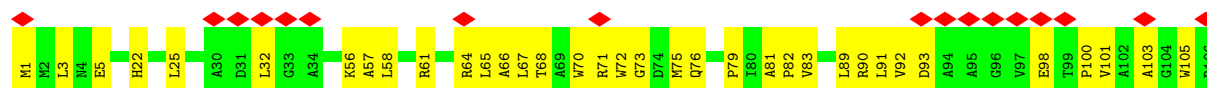




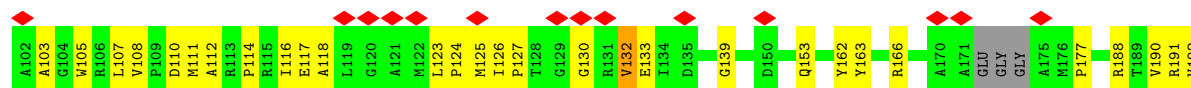
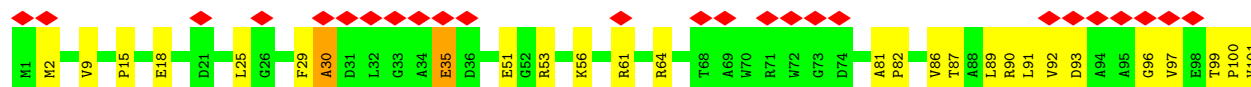
• Molecule 4: Uncharacterized protein



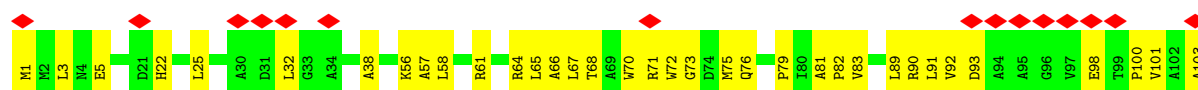
• Molecule 4: Uncharacterized protein

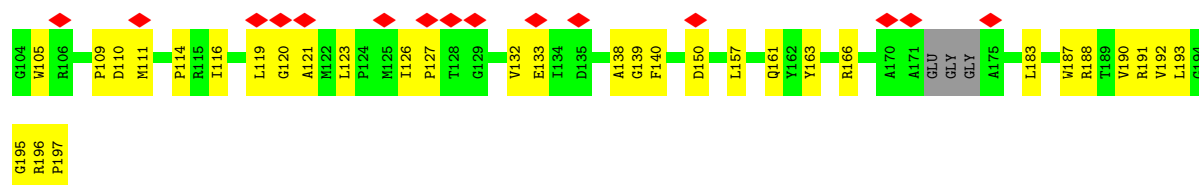


• Molecule 4: Uncharacterized protein

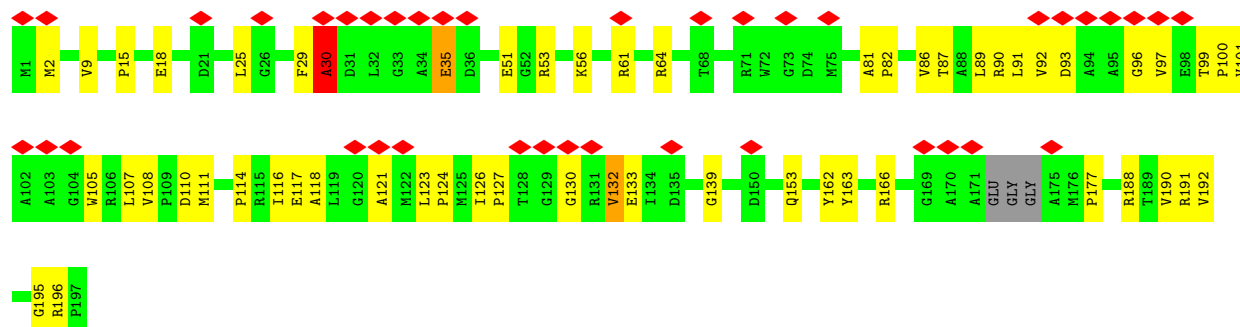


• Molecule 4: Uncharacterized protein

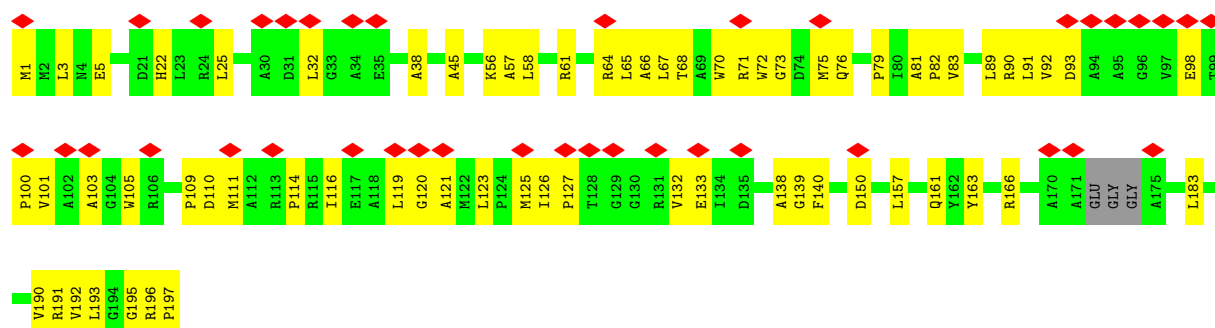




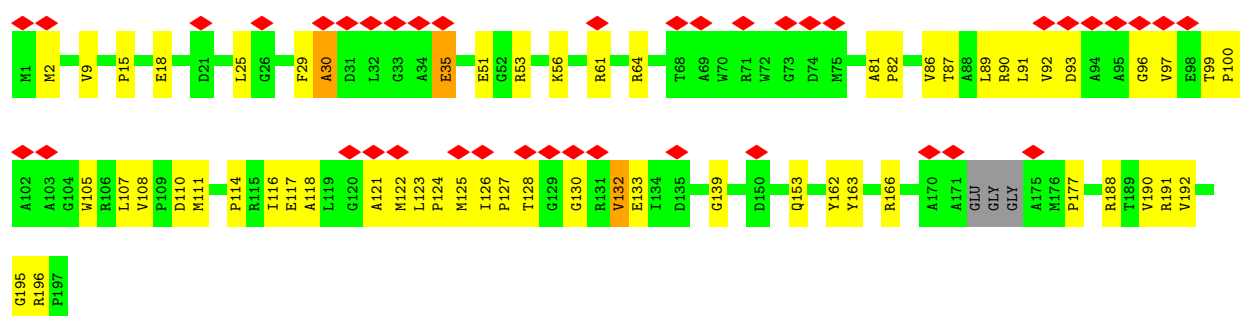
• Molecule 4: Uncharacterized protein



• Molecule 4: Uncharacterized protein



• Molecule 4: Uncharacterized protein



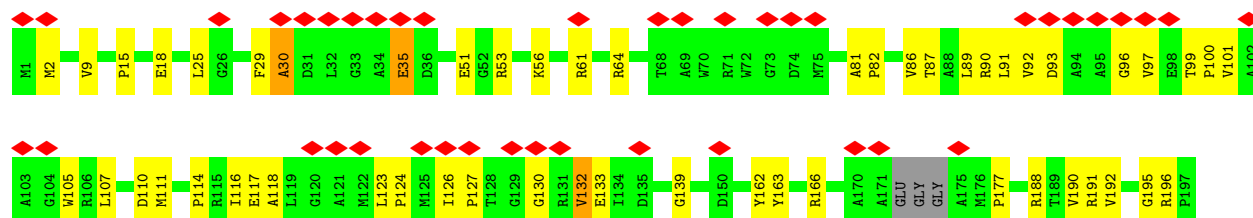
• Molecule 4: Uncharacterized protein

Chain 2F: 



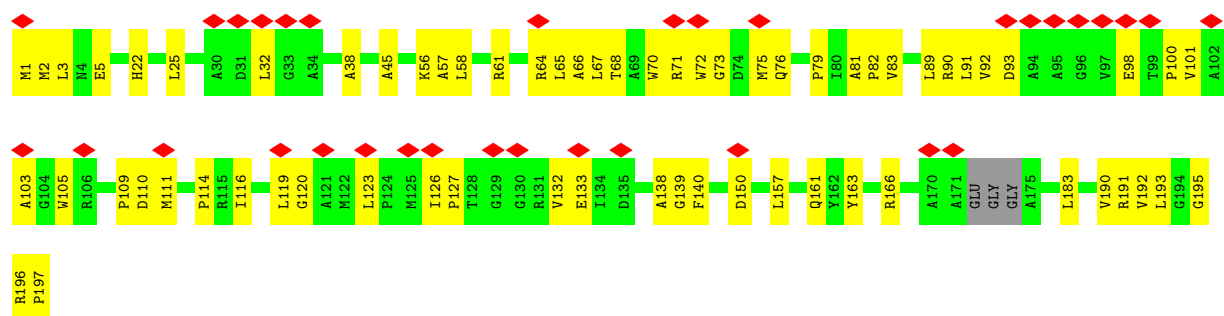
• Molecule 4: Uncharacterized protein

Chain 2C: 



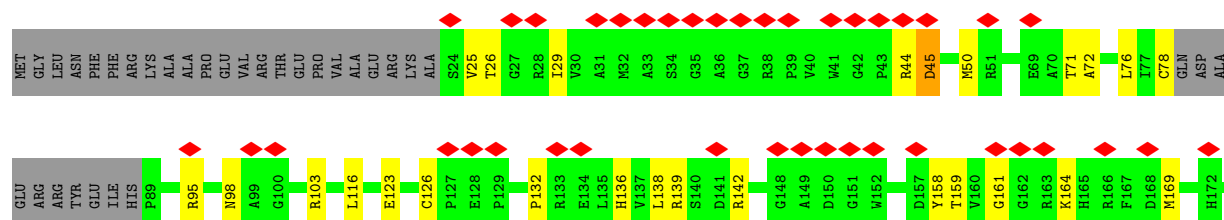
• Molecule 4: Uncharacterized protein

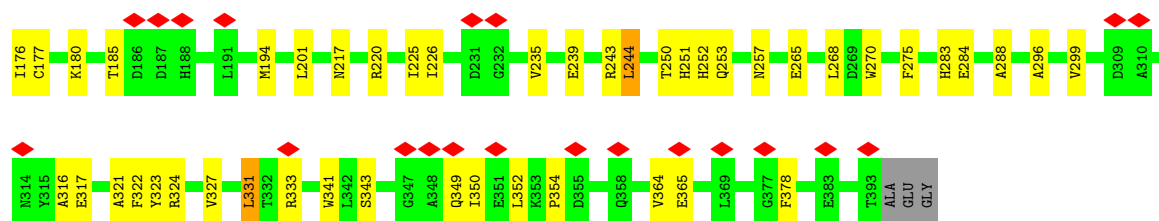
Chain 2D: 



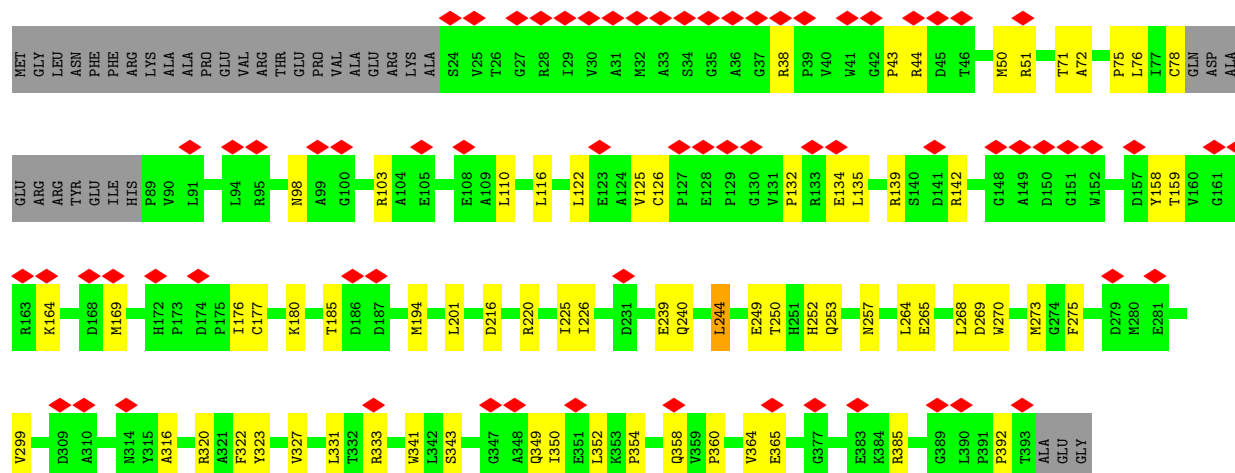
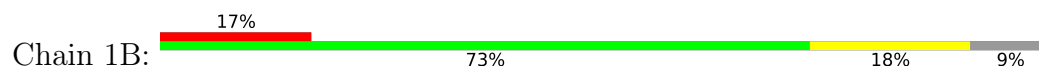
• Molecule 5: Portal protein Rcc01684

Chain 1A: 

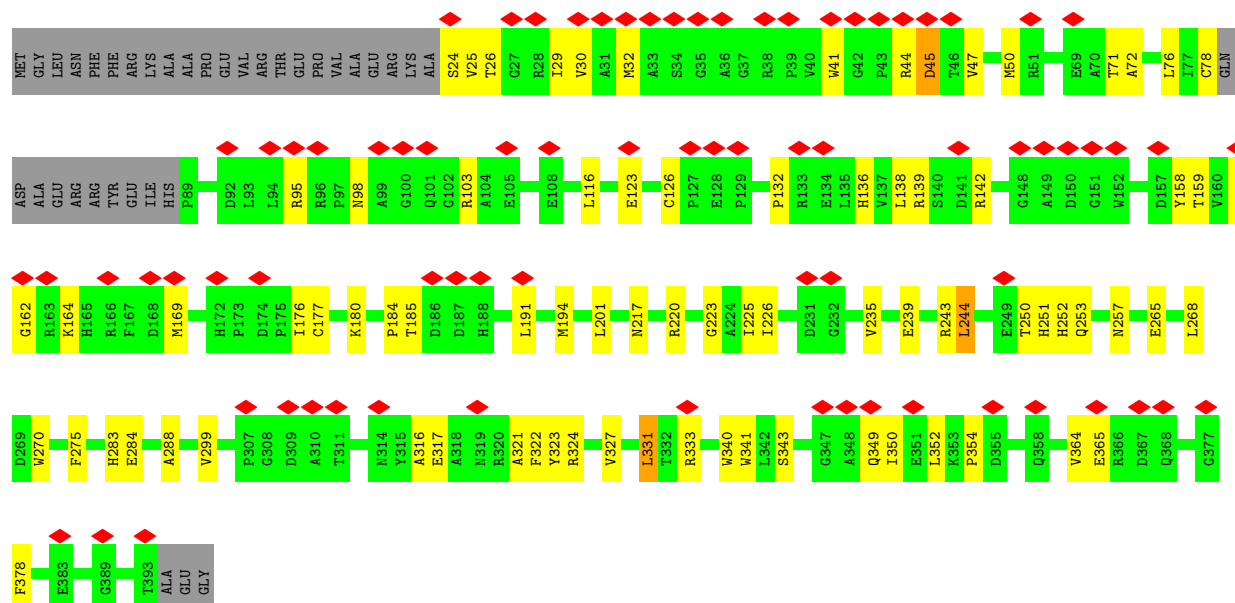
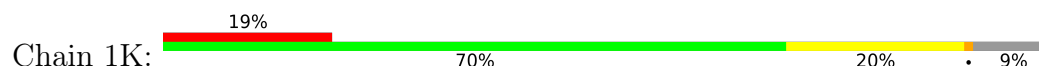




• Molecule 5: Portal protein Rcc01684

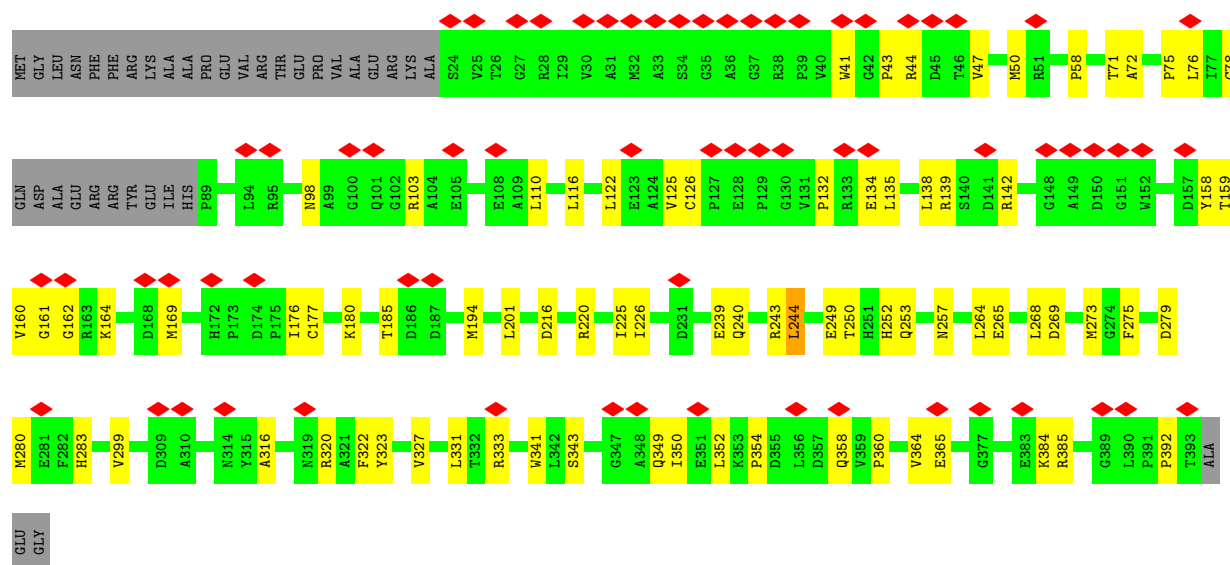


• Molecule 5: Portal protein Rcc01684



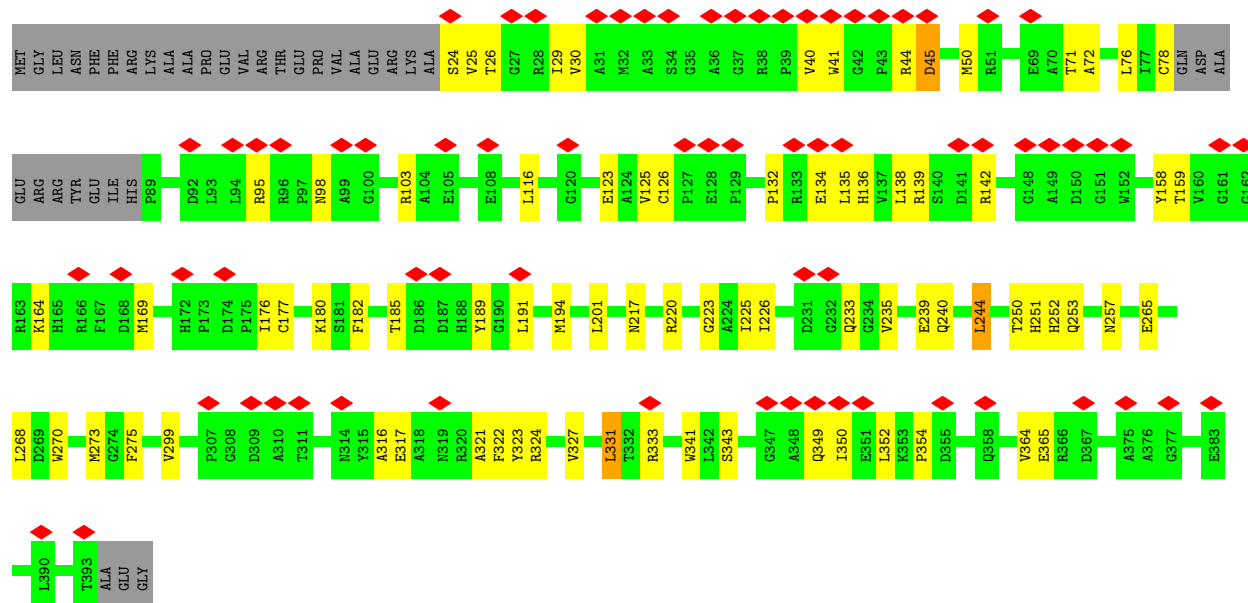
• Molecule 5: Portal protein Rcc01684

Chain 1L: 



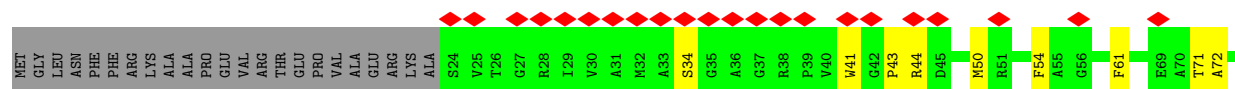
• Molecule 5: Portal protein Rcc01684

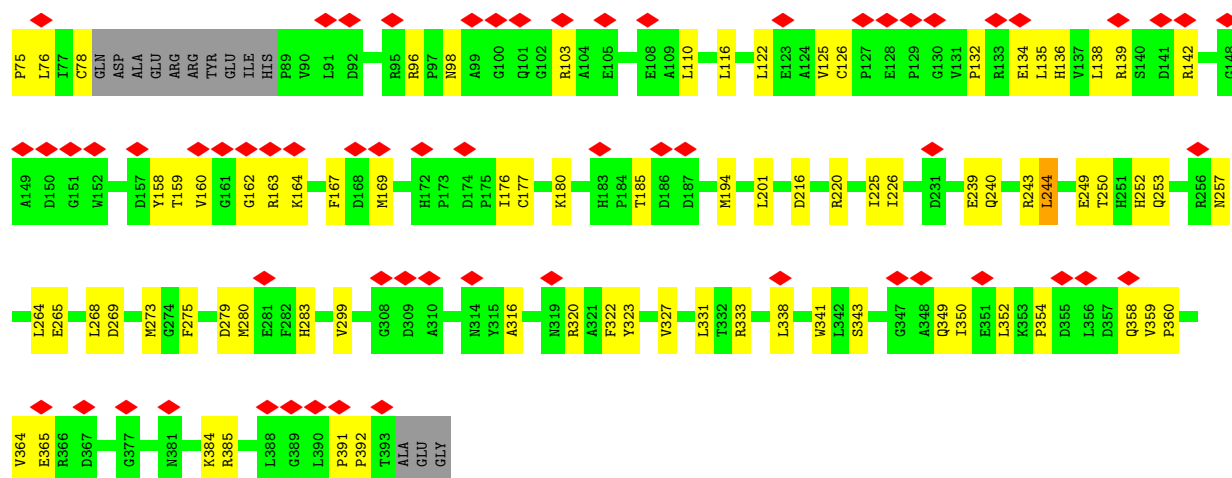
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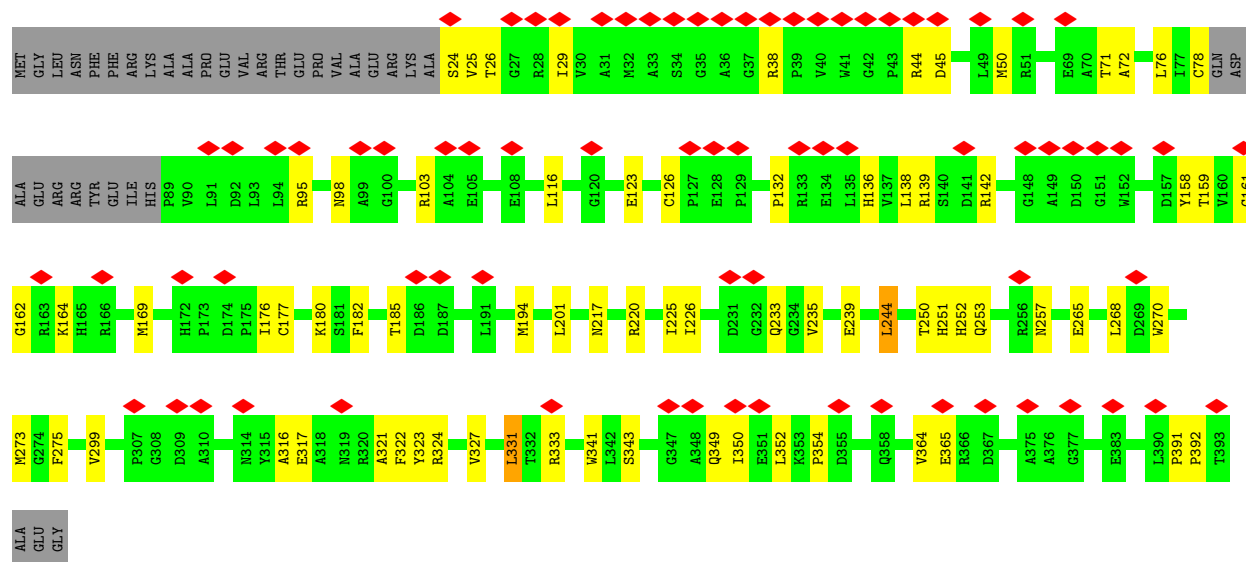
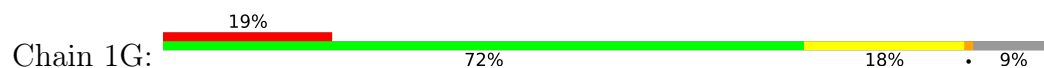
• Molecule 5: Portal protein Rcc01684

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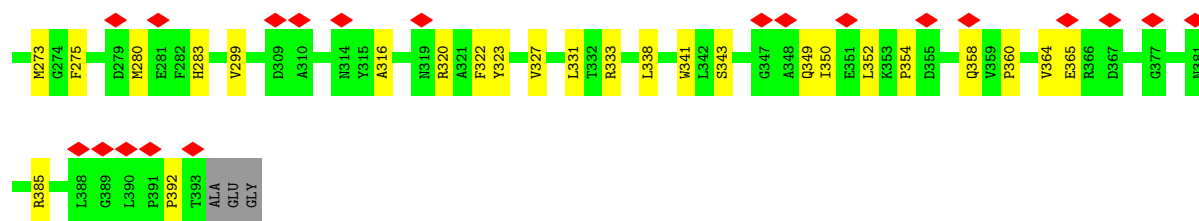


• Molecule 5: Portal protein Rcc01684

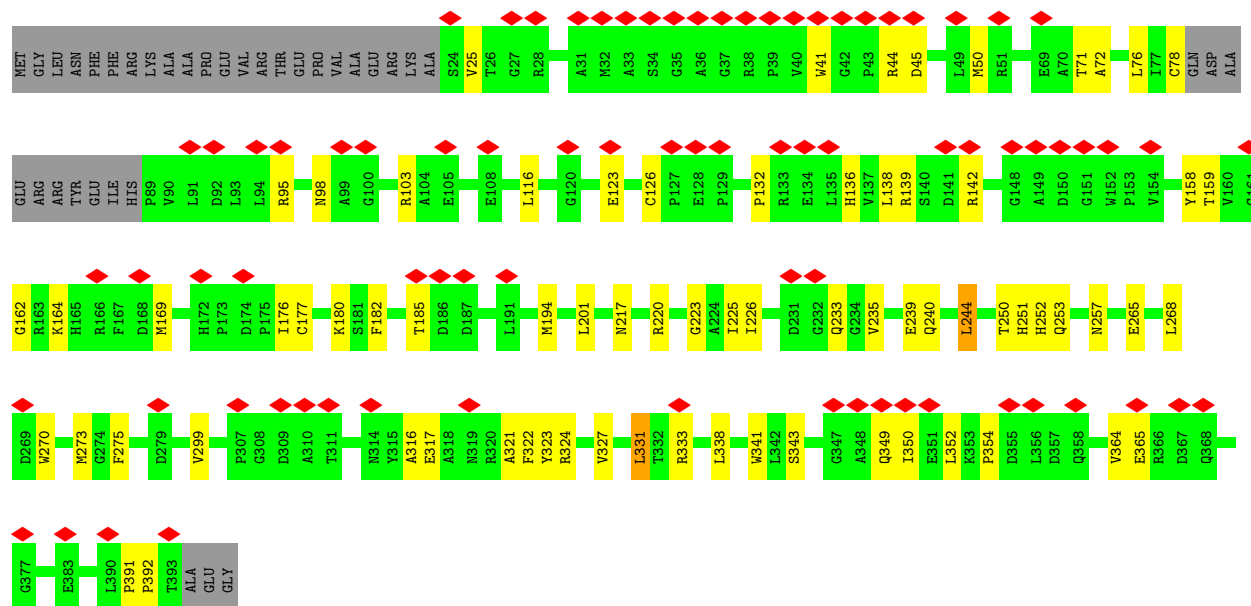
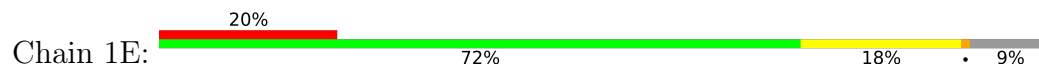


• Molecule 5: Portal protein Rcc01684

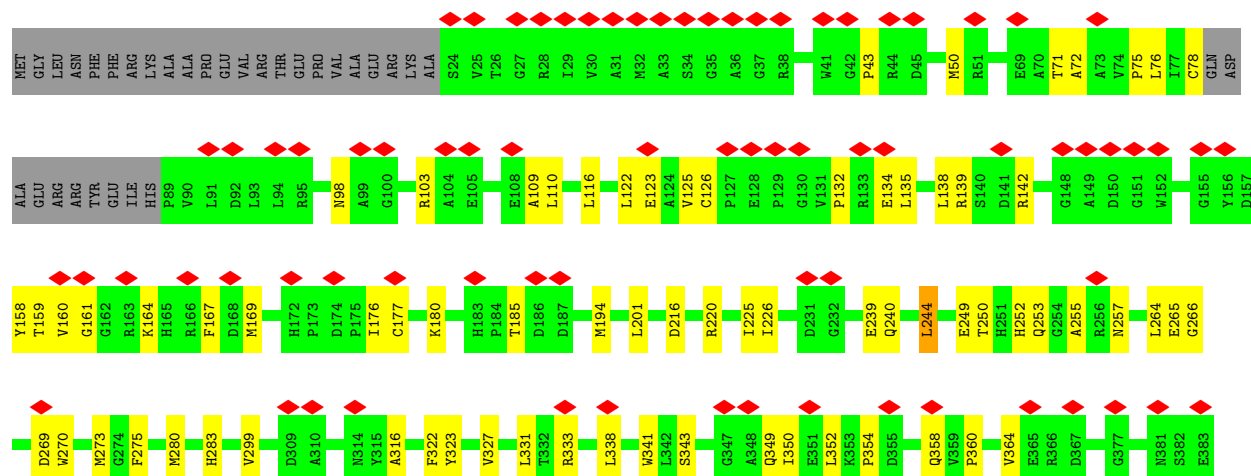
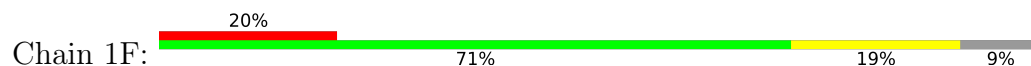


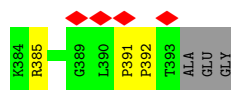


• Molecule 5: Portal protein Rcc01684

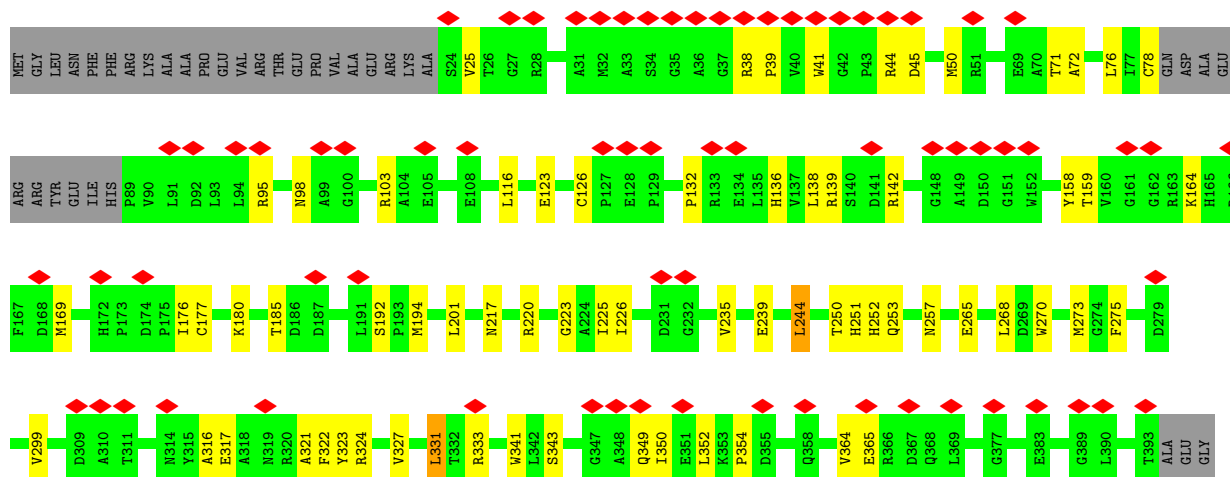
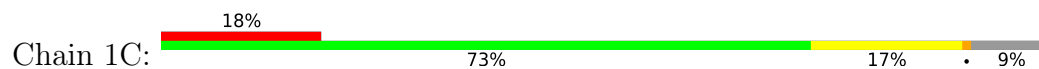


• Molecule 5: Portal protein Rcc01684

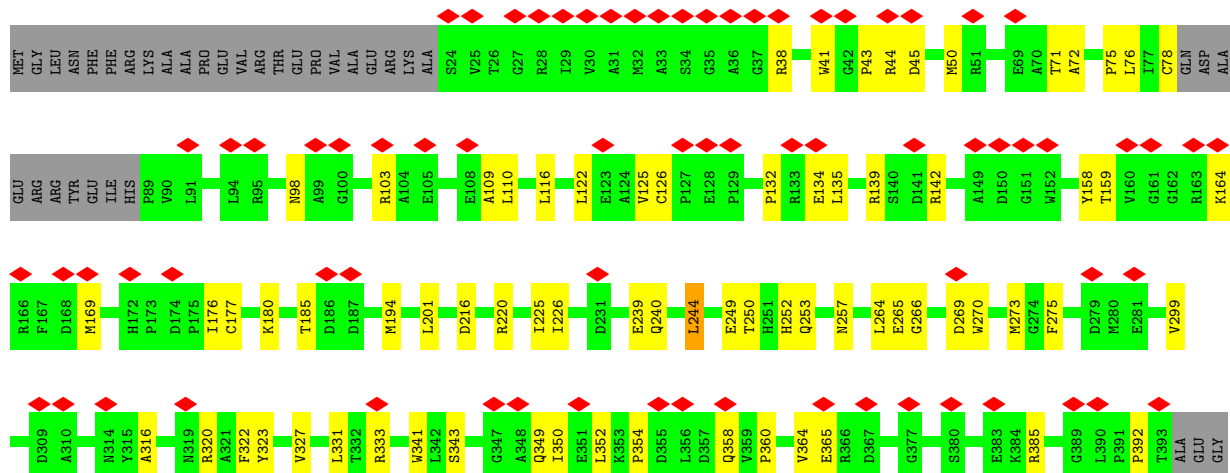
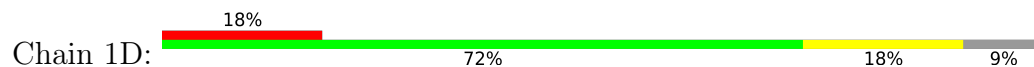




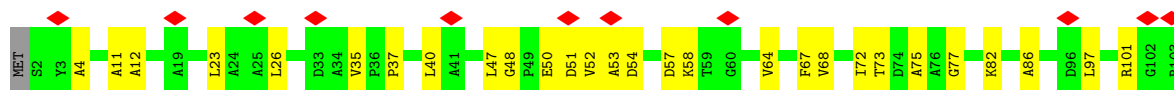
• Molecule 5: Portal protein Rcc01684

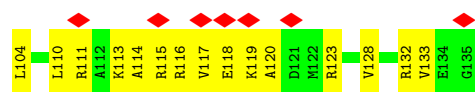


• Molecule 5: Portal protein Rcc01684

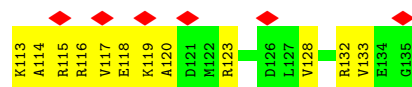
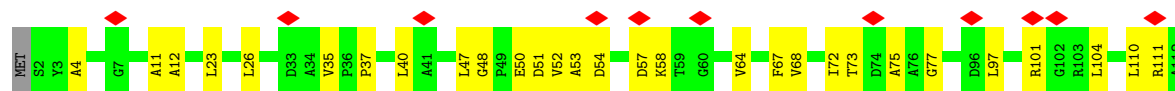


• Molecule 6: Uncharacterized protein

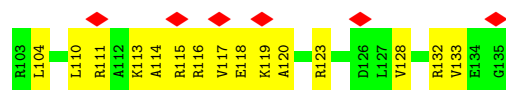
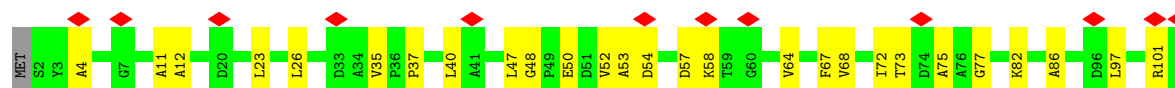




- Molecule 6: Uncharacterized protein



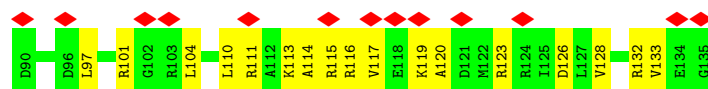
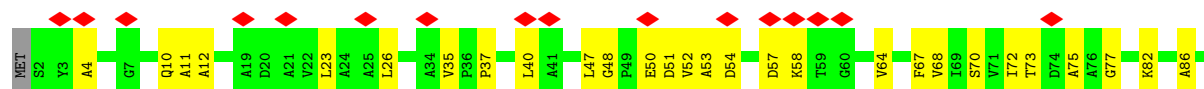
- Molecule 6: Uncharacterized protein



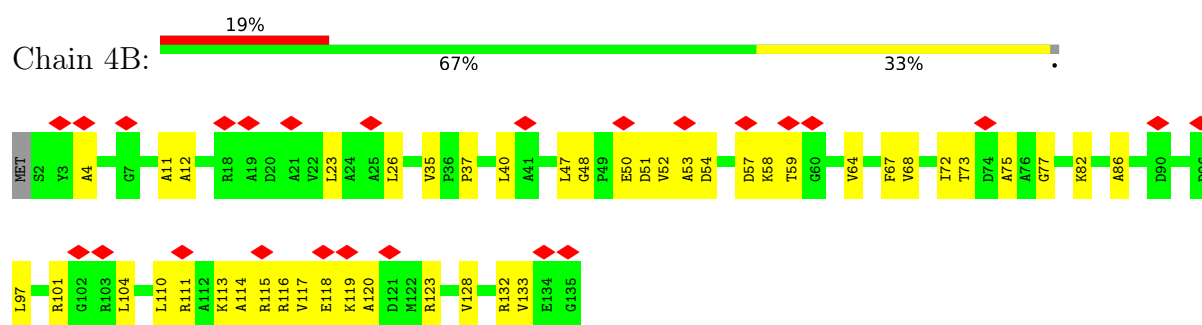
- Molecule 6: Uncharacterized protein



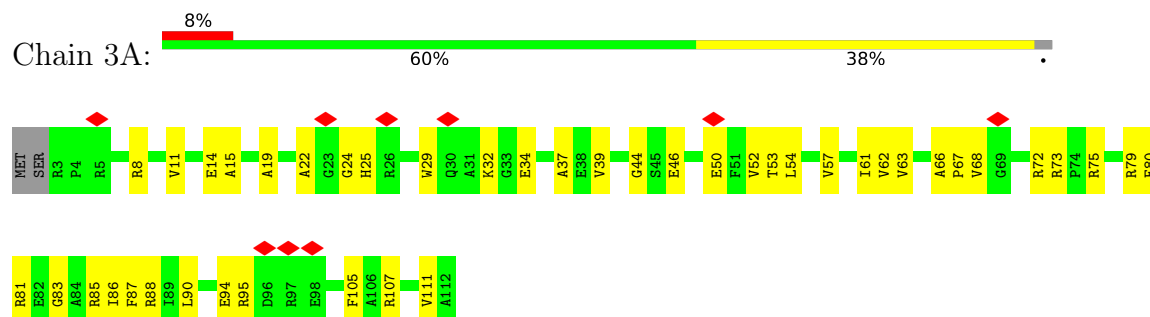
- Molecule 6: Uncharacterized protein



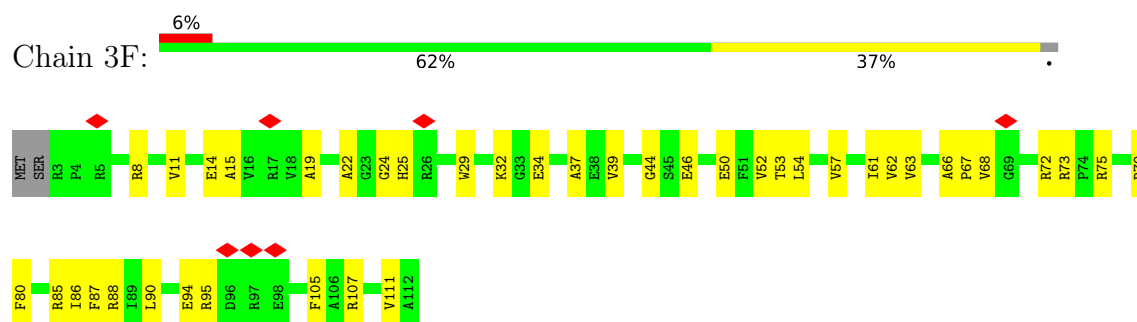
- Molecule 6: Uncharacterized protein



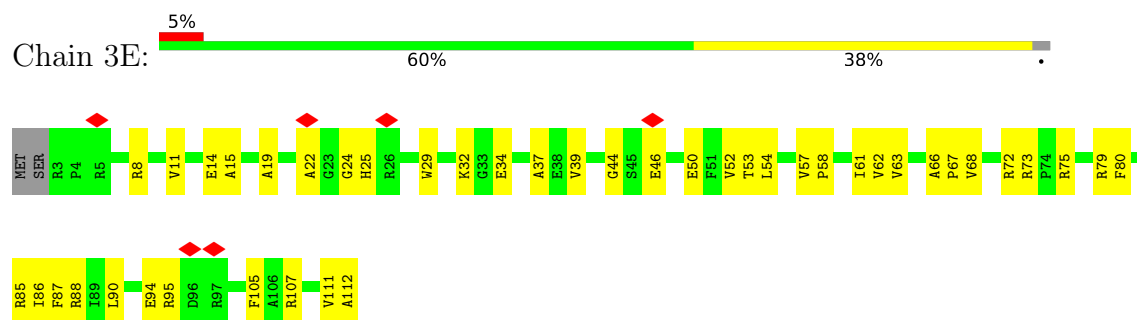
- Molecule 7: Uncharacterized protein



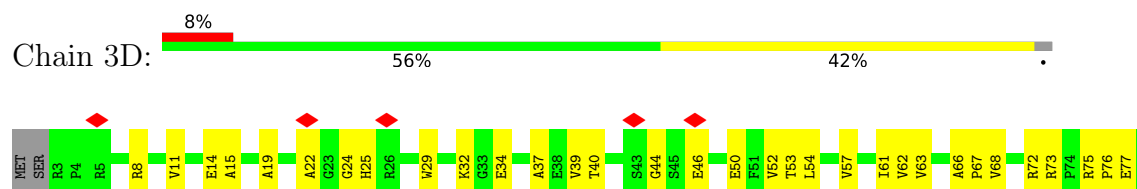
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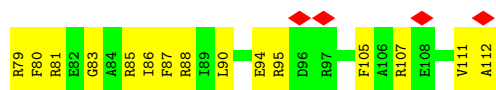


- Molecule 7: Uncharacterized protein

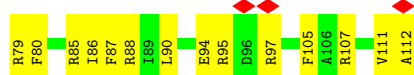


- Molecule 7: Uncharacterized protein

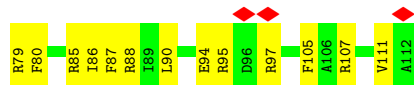




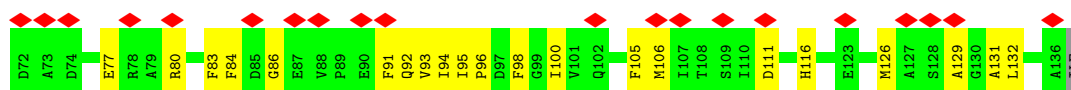
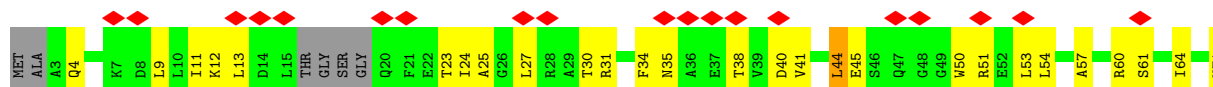
- Molecule 7: Uncharacterized protein



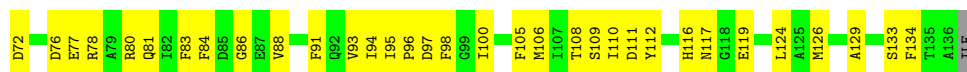
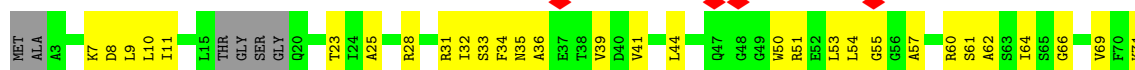
- Molecule 7: Uncharacterized protein



- Molecule 8: Phage major tail protein, TP901-1 family

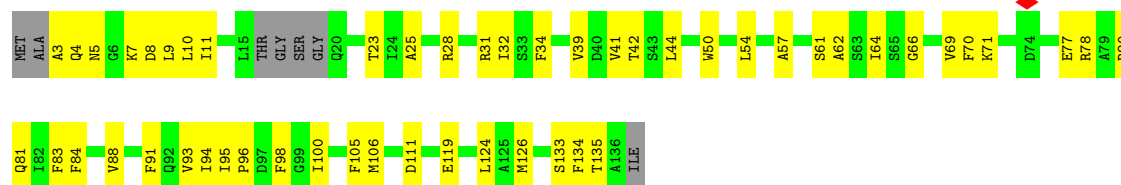


- Molecule 8: Phage major tail protein, TP901-1 family



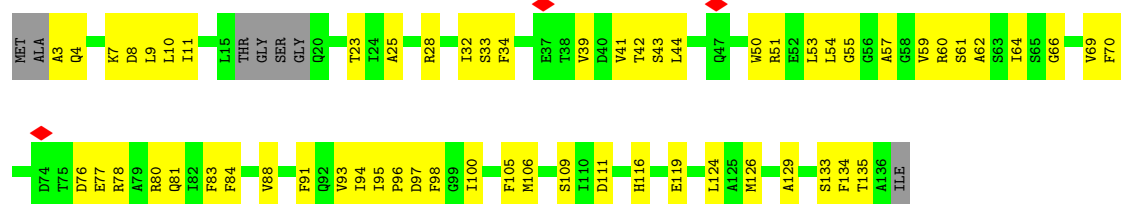
- Molecule 8: Phage major tail protein, TP901-1 family

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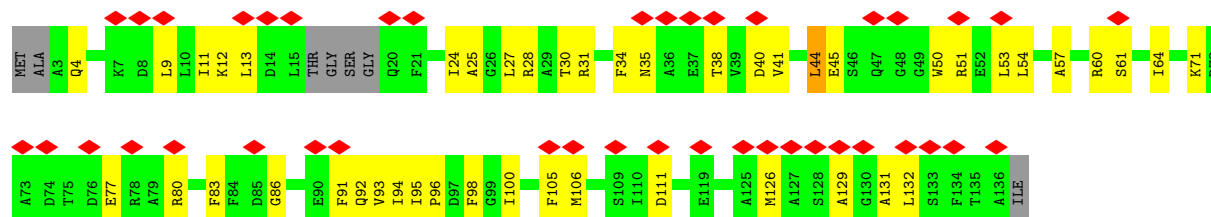
- Molecule 8: Phage major tail protein, TP901-1 family

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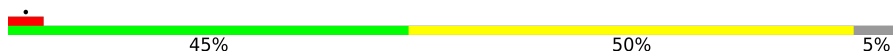


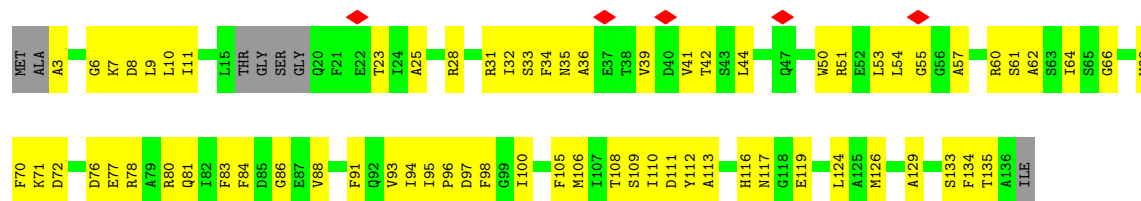
- Molecule 8: Phage major tail protein, TP901-1 family

Chain 5F: 



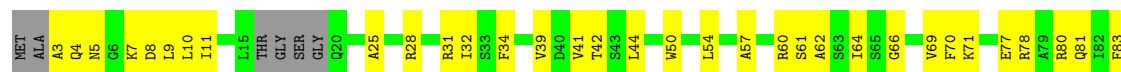
- Molecule 8: Phage major tail protein, TP901-1 family

Chain 5X: 



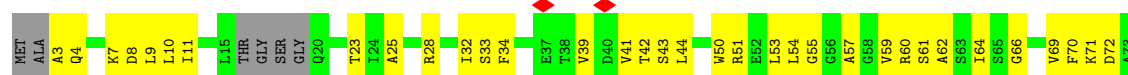
- Molecule 8: Phage major tail protein, TP901-1 family

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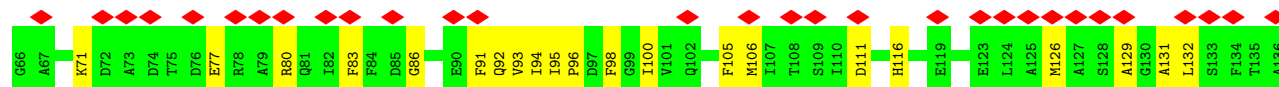
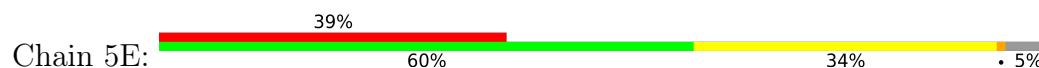




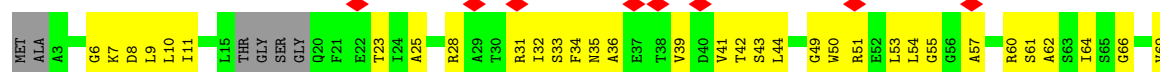
- Molecule 8: Phage major tail protein, TP901-1 family



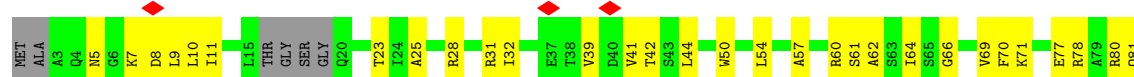
- Molecule 8: Phage major tail protein, TP901-1 family



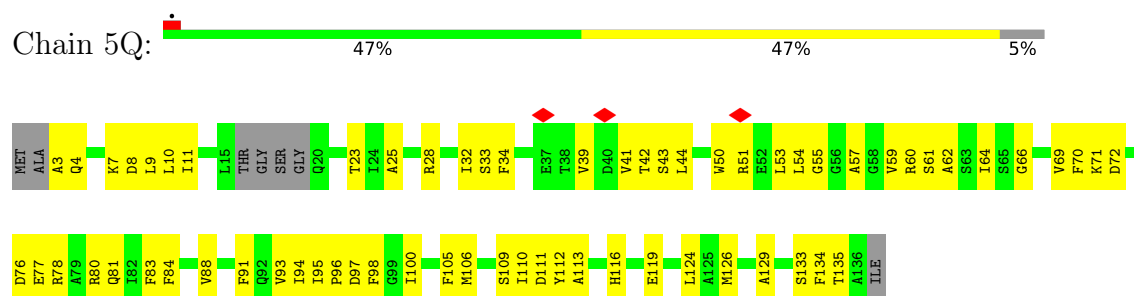
- Molecule 8: Phage major tail protein, TP901-1 family



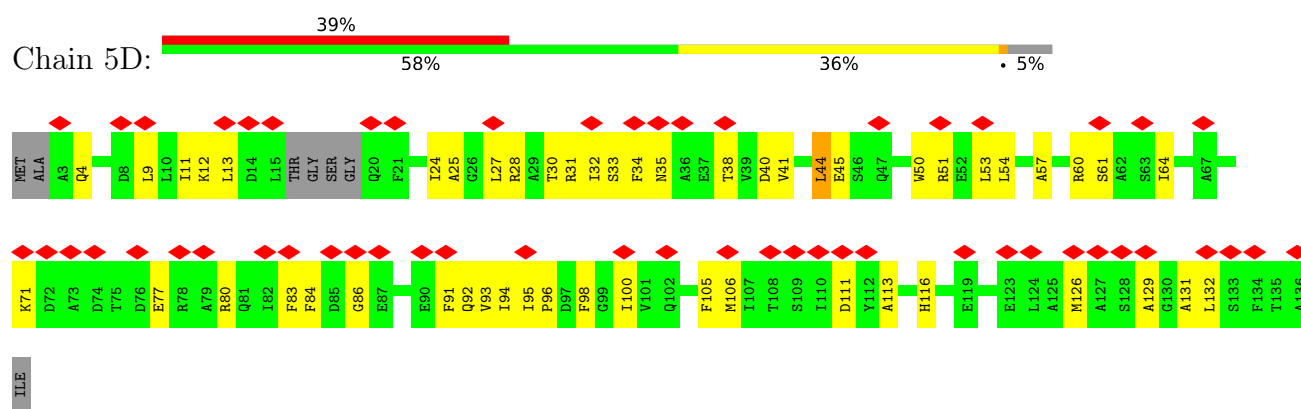
- Molecule 8: Phage major tail protein, TP901-1 family



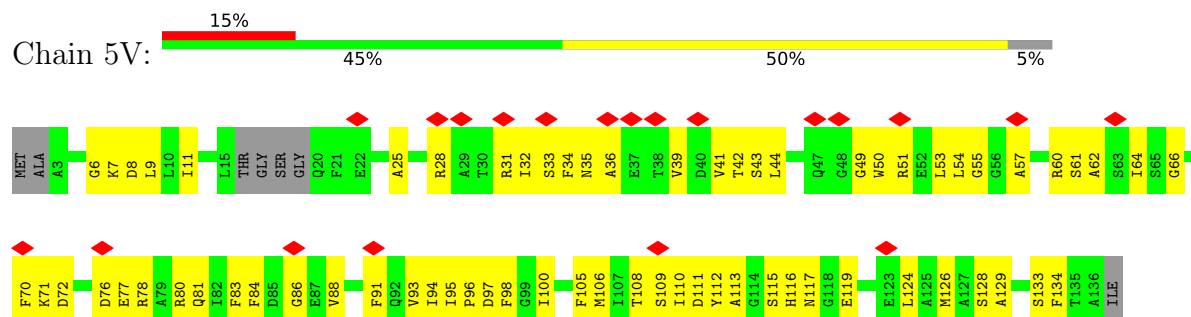
- Molecule 8: Phage major tail protein, TP901-1 family



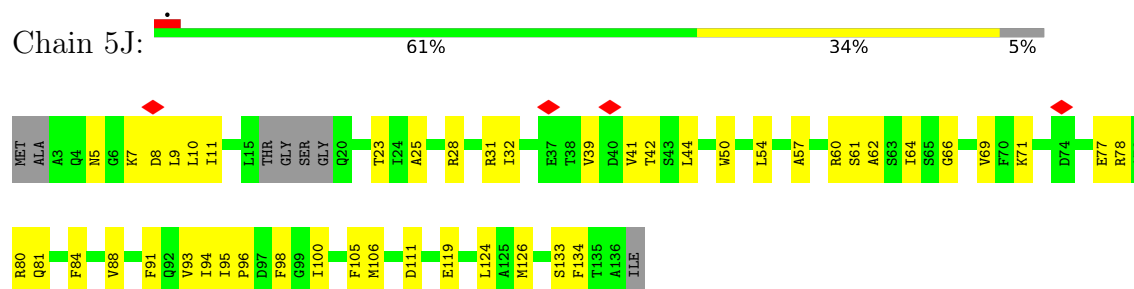
- Molecule 8: Phage major tail protein, TP901-1 family



- Molecule 8: Phage major tail protein, TP901-1 family

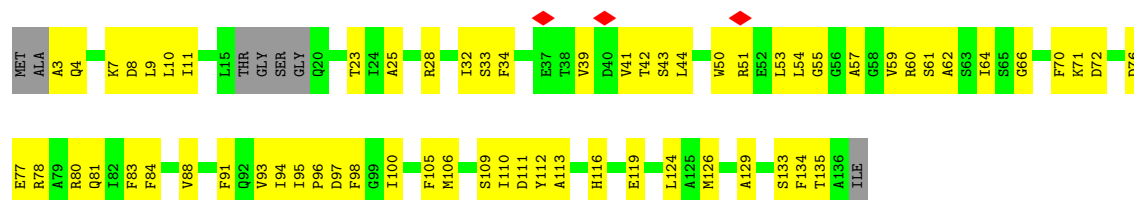


- Molecule 8: Phage major tail protein, TP901-1 family

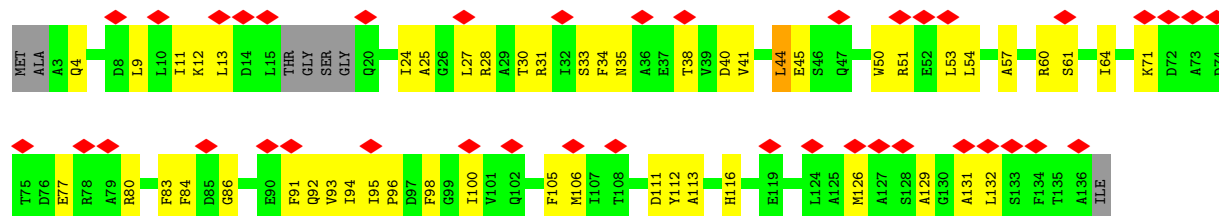


- Molecule 8: Phage major tail protein, TP901-1 family

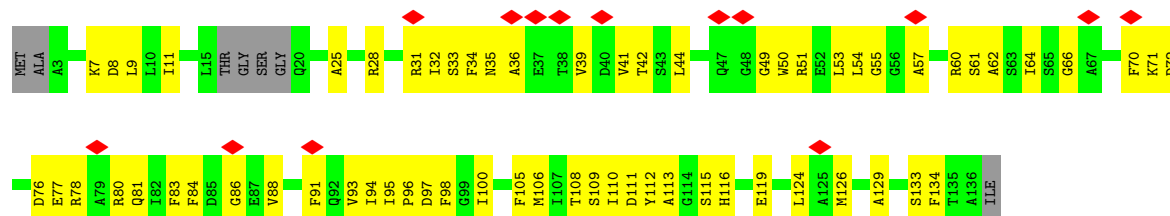




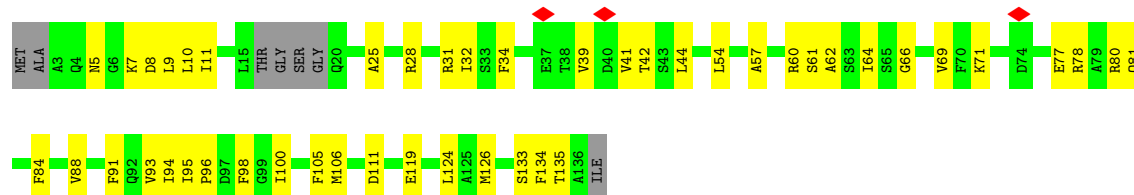
• Molecule 8: Phage major tail protein, TP901-1 family



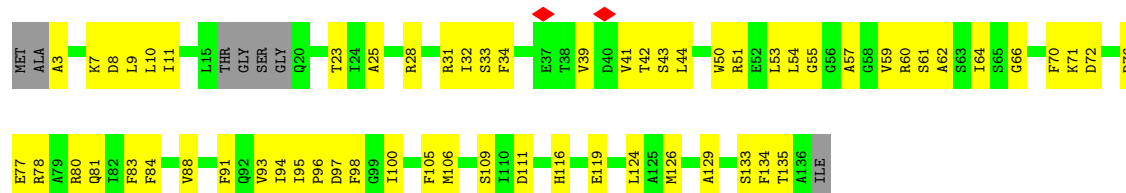
• Molecule 8: Phage major tail protein, TP901-1 family



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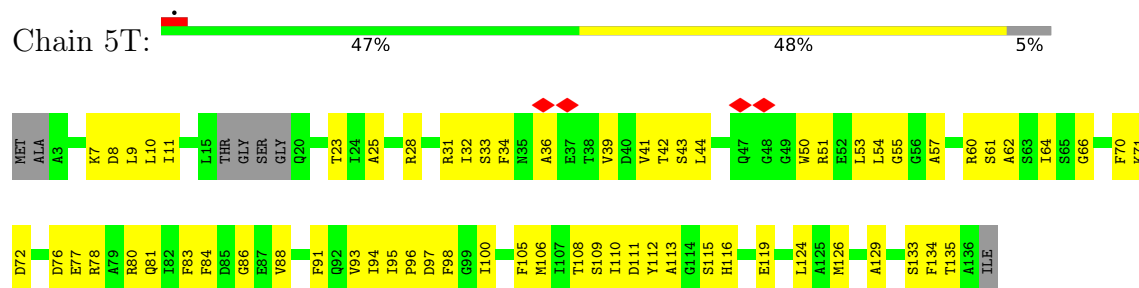
• Molecule 8: Phage major tail protein, TP901-1 family



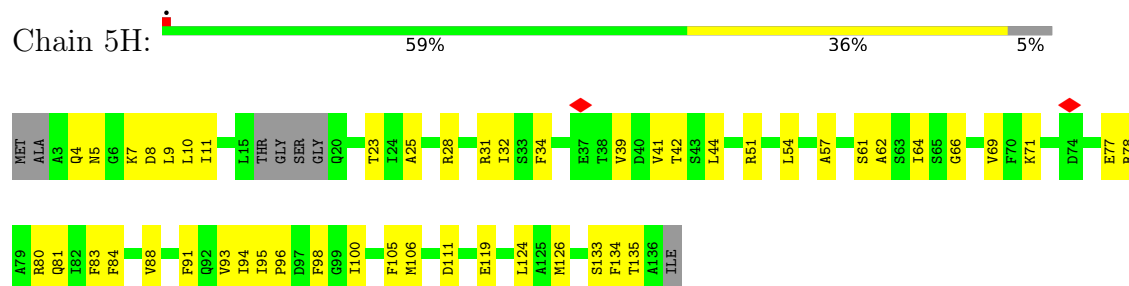
- Molecule 8: Phage major tail protein, TP901-1 family



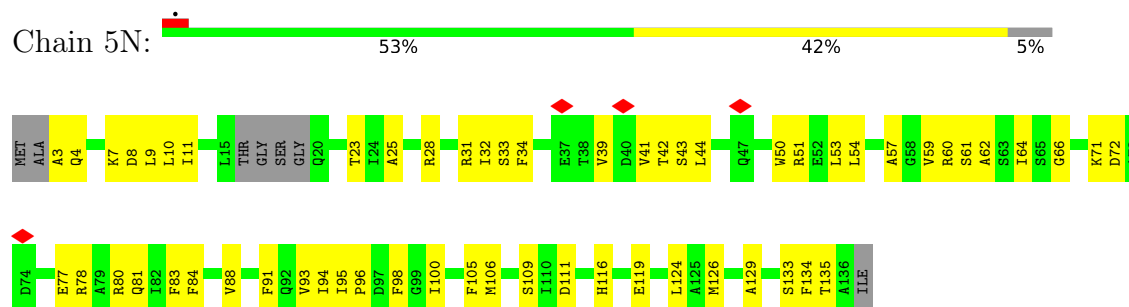
- Molecule 8: Phage major tail protein, TP901-1 family



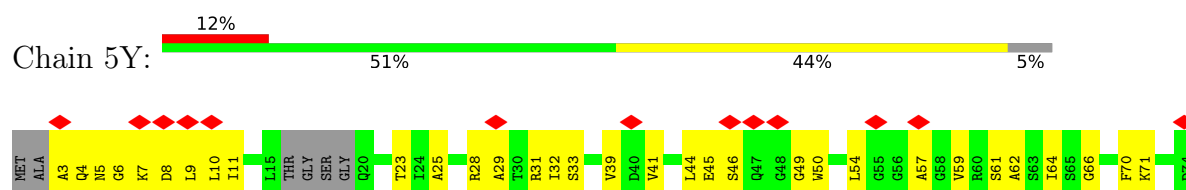
- Molecule 8: Phage major tail protein, TP901-1 family



- Molecule 8: Phage major tail protein, TP901-1 family

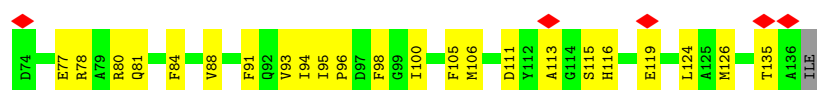
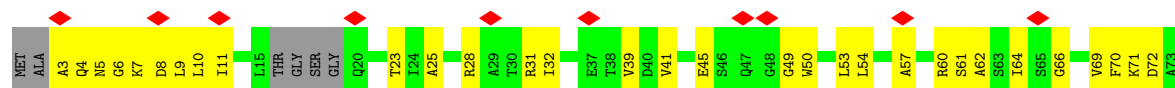


- Molecule 8: Phage major tail protein, TP901-1 family

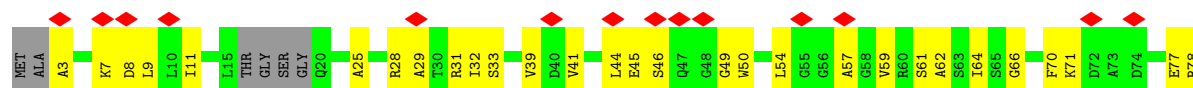




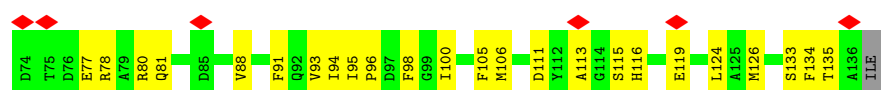
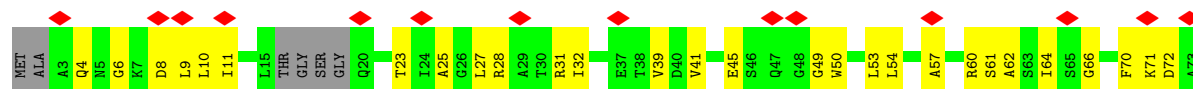
- Molecule 8: Phage major tail protein, TP901-1 family



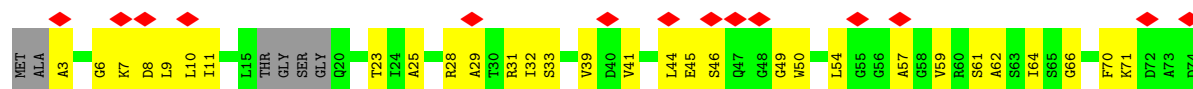
- Molecule 8: Phage major tail protein, TP901-1 family



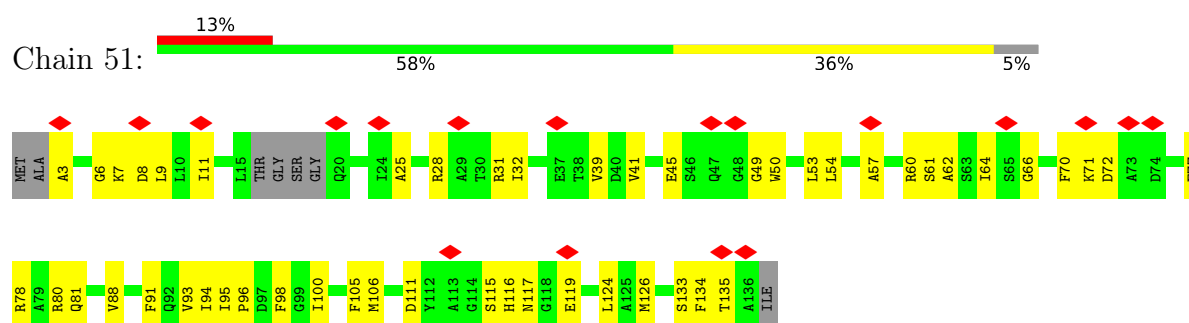
- Molecule 8: Phage major tail protein, TP901-1 family



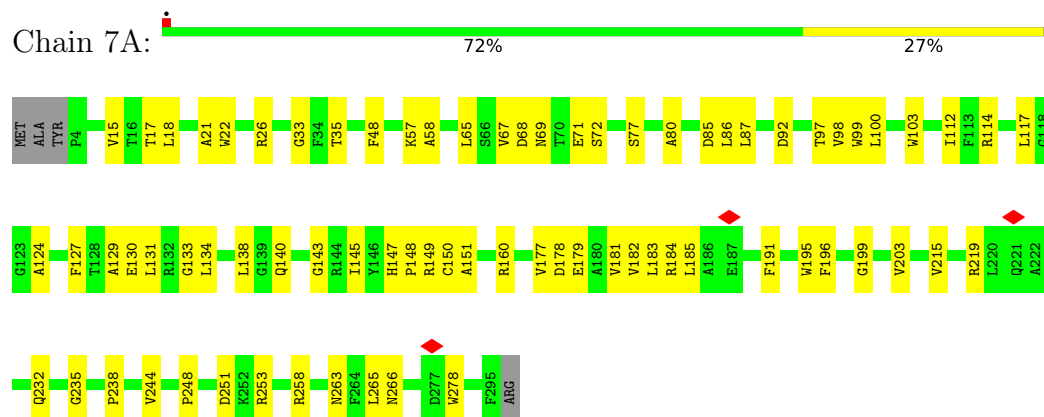
- Molecule 8: Phage major tail protein, TP901-1 family



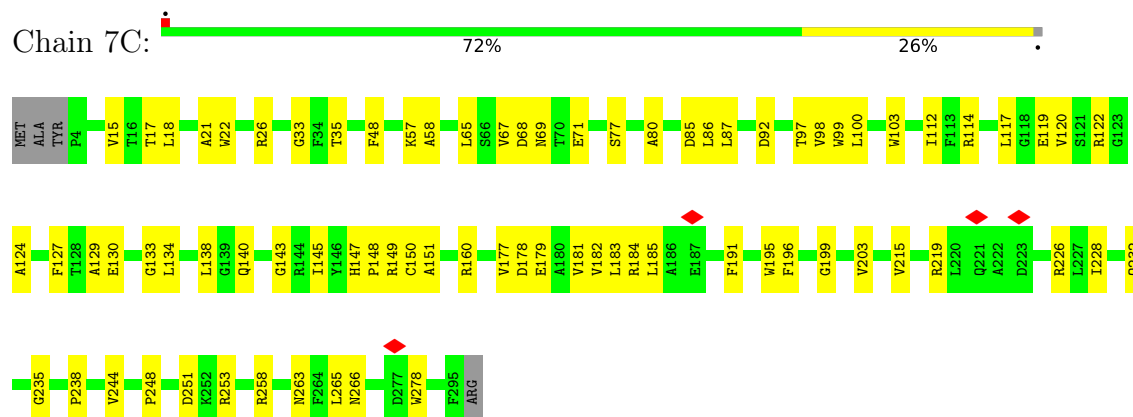
- Molecule 8: Phage major tail protein, TP901-1 family



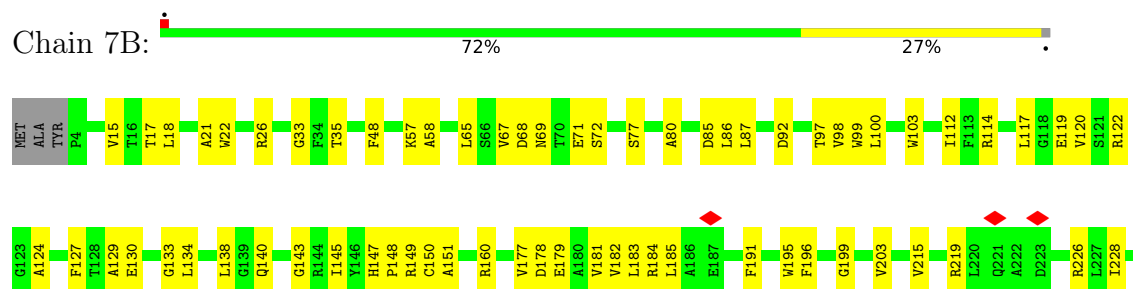
• Molecule 9: Uncharacterized protein

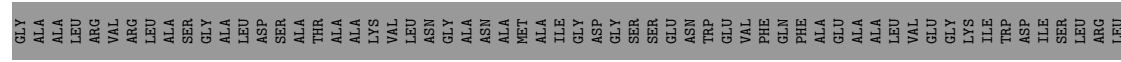


• Molecule 9: Uncharacterized protein



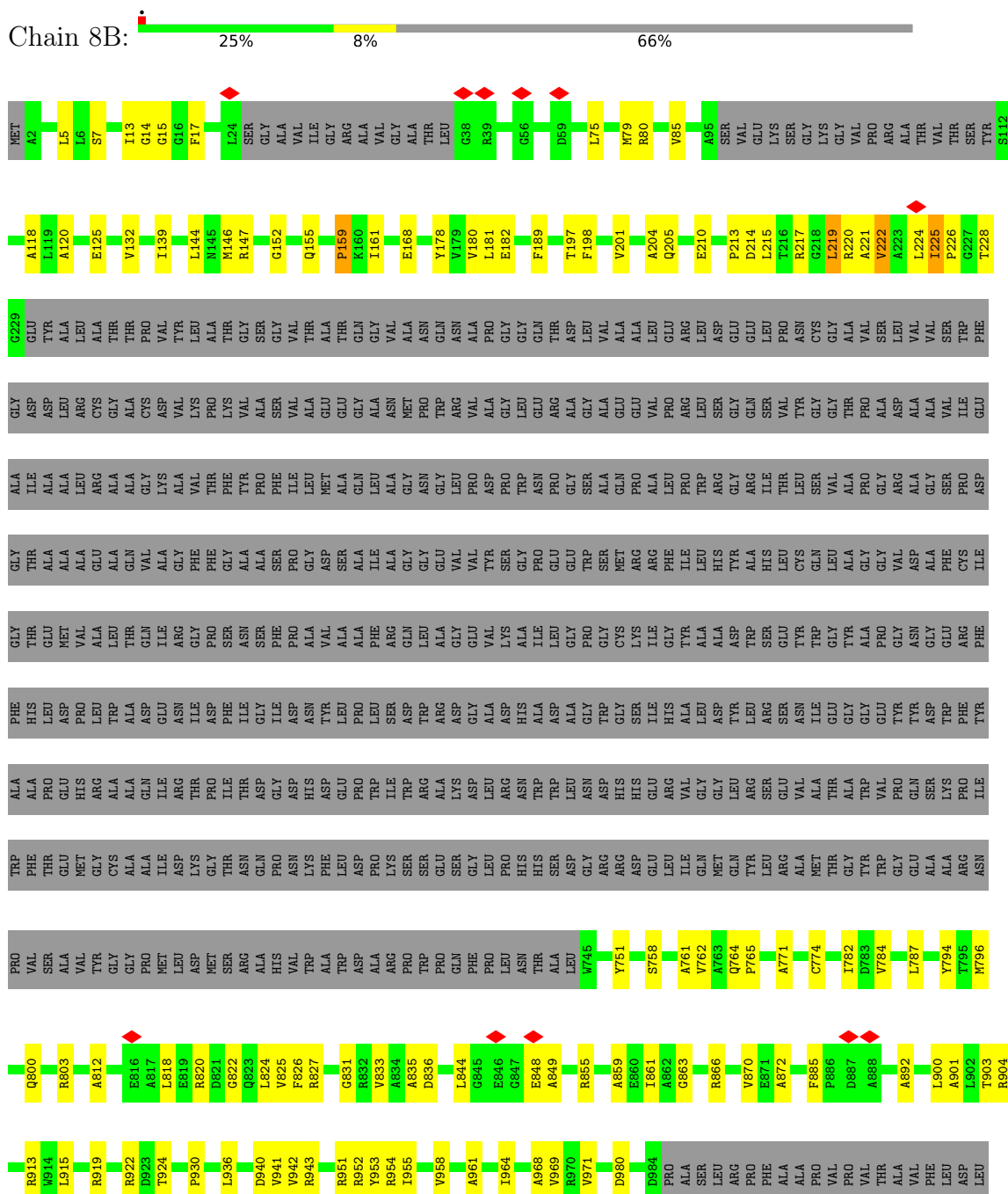
• Molecule 9: Uncharacterized protein





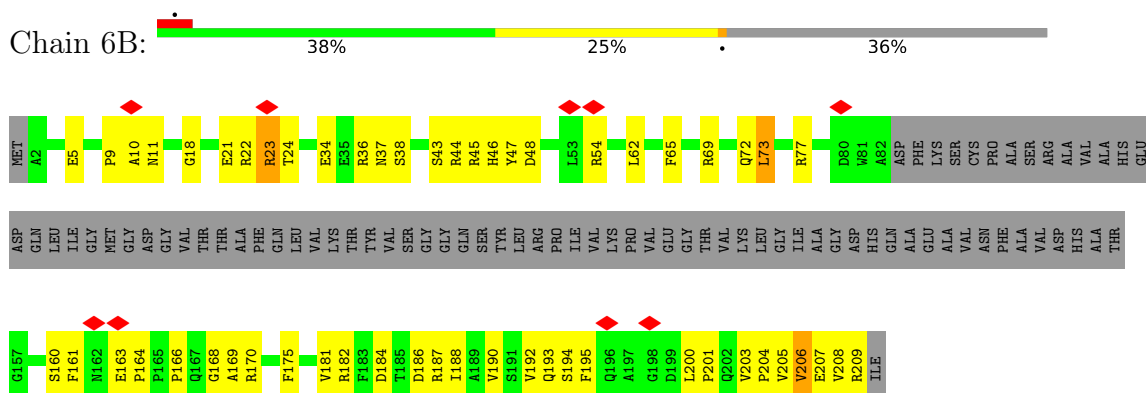


- Molecule 10: Uncharacterized protein

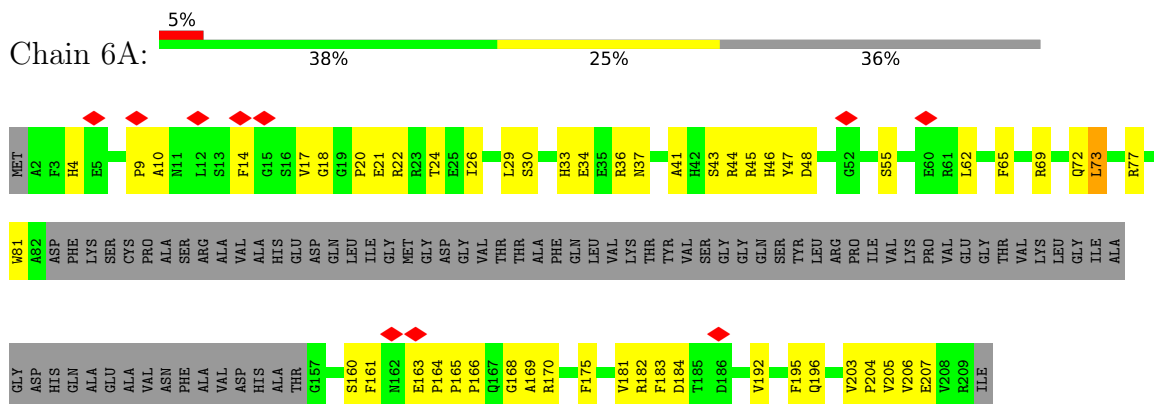




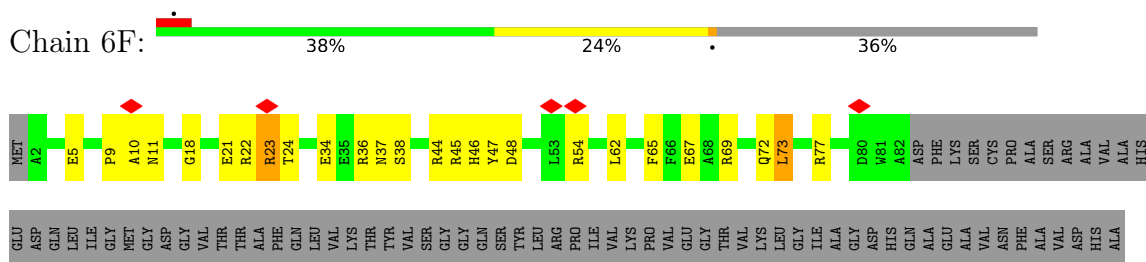
- Molecule 11: Uncharacterized protein



- Molecule 11: Uncharacterized protein

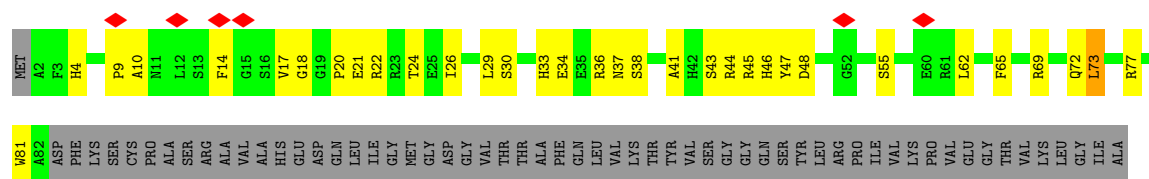
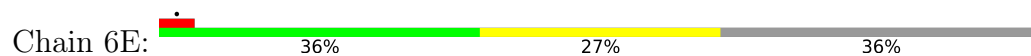


- Molecule 11: Uncharacterized protein

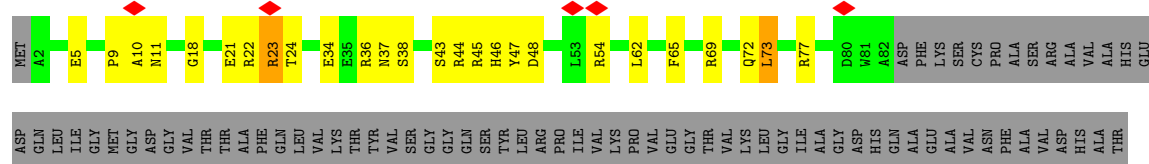




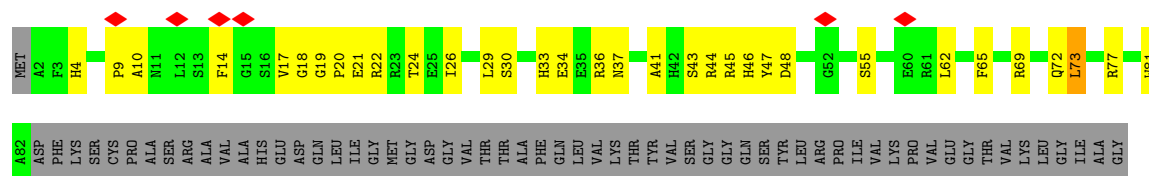
• Molecule 11: Uncharacterized protein



• Molecule 11: Uncharacterized protein



• Molecule 11: Uncharacterized protein



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	27724	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	42.75	Depositor
Minimum defocus (nm)	-1000	Depositor
Maximum defocus (nm)	-3000	Depositor
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	37.206	Depositor
Minimum map value	0.000	Depositor
Average map value	0.034	Depositor
Map value standard deviation	0.417	Depositor
Recommended contour level	4.5	Depositor
Map size (Å)	1020.48, 1020.48, 1020.48	wwPDB
Map dimensions	960, 960, 960	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.063, 1.063, 1.063	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: SF4

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	A4	0.41	0/2216	0.67	0/3012
1	A5	0.32	0/2243	0.66	2/3051 (0.1%)
1	A9	0.41	0/2216	0.67	0/3012
1	AA	0.32	0/2249	0.66	2/3059 (0.1%)
1	AE	0.41	0/2216	0.67	0/3012
1	AF	0.32	0/2253	0.65	2/3064 (0.1%)
1	AJ	0.41	0/2216	0.67	0/3012
1	AK	0.32	0/2253	0.65	2/3064 (0.1%)
1	AO	0.41	0/2216	0.67	0/3012
1	AP	0.32	0/2245	0.66	2/3054 (0.1%)
1	B4	0.38	0/2253	0.68	0/3064
1	B5	0.44	0/2049	0.75	7/2785 (0.3%)
1	B9	0.38	0/2253	0.68	0/3064
1	BA	0.44	0/2055	0.75	7/2793 (0.3%)
1	BE	0.38	0/2253	0.68	0/3064
1	BF	0.44	0/2056	0.75	7/2793 (0.3%)
1	BJ	0.38	0/2253	0.68	0/3064
1	BK	0.44	0/2049	0.75	7/2785 (0.3%)
1	BO	0.38	0/2253	0.68	0/3064
1	BP	0.44	0/2050	0.75	7/2786 (0.3%)
1	C4	0.38	0/2253	0.65	0/3064
1	C5	0.35	0/2253	0.68	1/3064 (0.0%)
1	C9	0.38	0/2253	0.65	0/3064
1	CA	0.35	0/2253	0.68	1/3064 (0.0%)
1	CE	0.38	0/2253	0.65	0/3064
1	CF	0.35	0/2253	0.68	1/3064 (0.0%)
1	CJ	0.38	0/2253	0.65	0/3064
1	CK	0.35	0/2253	0.68	1/3064 (0.0%)
1	CO	0.38	0/2253	0.65	0/3064
1	CP	0.35	0/2253	0.68	1/3064 (0.0%)
1	D4	0.39	0/2253	0.70	0/3064
1	D9	0.39	0/2253	0.70	0/3064

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	DE	0.39	0/2253	0.70	0/3064
1	DJ	0.39	0/2253	0.70	0/3064
1	DO	0.39	0/2253	0.70	0/3064
1	E4	0.39	0/2253	0.68	0/3064
1	E9	0.39	0/2253	0.68	0/3064
1	EE	0.39	0/2253	0.68	0/3064
1	EJ	0.39	0/2253	0.68	0/3064
1	EO	0.39	0/2253	0.68	0/3064
1	F4	0.39	0/2253	0.69	1/3064 (0.0%)
1	F9	0.39	0/2253	0.69	1/3064 (0.0%)
1	FE	0.40	0/2253	0.69	1/3064 (0.0%)
1	FJ	0.39	0/2253	0.69	1/3064 (0.0%)
1	FO	0.39	0/2253	0.69	1/3064 (0.0%)
1	G4	0.40	0/2253	0.70	2/3064 (0.1%)
1	G9	0.40	0/2253	0.70	2/3064 (0.1%)
1	GE	0.40	0/2253	0.70	2/3064 (0.1%)
1	GJ	0.40	0/2253	0.70	2/3064 (0.1%)
1	GO	0.40	0/2253	0.70	2/3064 (0.1%)
1	H4	0.39	0/2216	0.66	0/3012
1	H9	0.39	0/2216	0.66	0/3012
1	HE	0.39	0/2216	0.66	0/3012
1	HJ	0.39	0/2216	0.66	0/3012
1	HO	0.39	0/2216	0.66	0/3012
1	I4	0.38	0/2216	0.67	0/3012
1	I9	0.38	0/2216	0.67	0/3012
1	IE	0.38	0/2216	0.67	0/3012
1	IJ	0.38	0/2216	0.67	0/3012
1	IO	0.38	0/2216	0.67	0/3012
1	J4	0.39	0/2216	0.67	0/3012
1	J9	0.39	0/2216	0.67	0/3012
1	JE	0.40	0/2216	0.67	0/3012
1	JJ	0.39	0/2216	0.67	0/3012
1	JO	0.40	0/2216	0.67	0/3012
1	K4	0.42	1/2216 (0.0%)	0.67	0/3012
1	K9	0.42	1/2216 (0.0%)	0.67	0/3012
1	KE	0.42	1/2216 (0.0%)	0.67	0/3012
1	KJ	0.42	1/2216 (0.0%)	0.67	0/3012
1	KO	0.42	1/2216 (0.0%)	0.67	0/3012
1	L4	0.40	0/2216	0.69	1/3012 (0.0%)
1	L9	0.41	0/2216	0.69	1/3012 (0.0%)
1	LE	0.41	0/2216	0.69	1/3012 (0.0%)
1	LJ	0.40	0/2216	0.69	1/3012 (0.0%)
1	LO	0.41	0/2216	0.69	1/3012 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	M4	0.37	0/2253	0.72	0/3064
1	M9	0.37	0/2253	0.72	0/3064
1	ME	0.37	0/2253	0.72	0/3064
1	MJ	0.37	0/2253	0.72	0/3064
1	MO	0.37	0/2253	0.72	0/3064
1	N4	0.39	0/2253	0.73	3/3064 (0.1%)
1	N9	0.39	0/2253	0.74	3/3064 (0.1%)
1	NE	0.39	0/2253	0.73	1/3064 (0.0%)
1	NJ	0.39	0/2253	0.74	3/3064 (0.1%)
1	NO	0.39	0/2253	0.74	3/3064 (0.1%)
1	O4	0.37	0/2253	0.72	0/3064
1	O9	0.38	0/2253	0.72	0/3064
1	OE	0.38	0/2253	0.72	0/3064
1	OJ	0.37	0/2253	0.72	0/3064
1	OO	0.37	0/2253	0.72	0/3064
1	P4	0.38	0/2253	0.77	4/3064 (0.1%)
1	P9	0.38	0/2253	0.77	4/3064 (0.1%)
1	PE	0.38	0/2253	0.77	4/3064 (0.1%)
1	PJ	0.38	0/2253	0.77	4/3064 (0.1%)
1	PO	0.38	0/2253	0.77	4/3064 (0.1%)
1	Q4	0.37	0/2253	0.74	3/3064 (0.1%)
1	Q9	0.37	0/2253	0.74	3/3064 (0.1%)
1	QE	0.37	0/2253	0.74	3/3064 (0.1%)
1	QJ	0.37	0/2253	0.74	3/3064 (0.1%)
1	QO	0.37	0/2253	0.74	3/3064 (0.1%)
1	R4	0.37	0/2253	0.71	0/3064
1	R9	0.37	0/2253	0.71	0/3064
1	RE	0.37	0/2253	0.71	0/3064
1	RJ	0.37	0/2253	0.71	0/3064
1	RO	0.37	0/2253	0.71	0/3064
1	S4	0.40	0/2216	0.74	3/3012 (0.1%)
1	S9	0.41	0/2216	0.74	3/3012 (0.1%)
1	SE	0.41	0/2216	0.74	3/3012 (0.1%)
1	SJ	0.41	0/2216	0.74	3/3012 (0.1%)
1	SO	0.41	0/2216	0.74	3/3012 (0.1%)
1	T4	0.37	0/2216	0.65	0/3012
1	T9	0.37	0/2216	0.65	0/3012
1	TE	0.37	0/2216	0.65	0/3012
1	TJ	0.37	0/2216	0.65	0/3012
1	TO	0.37	0/2216	0.65	0/3012
1	U4	0.40	0/2216	0.67	1/3012 (0.0%)
1	U9	0.40	0/2216	0.67	1/3012 (0.0%)
1	UE	0.40	0/2216	0.67	1/3012 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	UJ	0.40	0/2216	0.67	1/3012 (0.0%)
1	UO	0.40	0/2216	0.67	1/3012 (0.0%)
1	V4	0.39	0/2216	0.69	0/3012
1	V9	0.39	0/2216	0.69	0/3012
1	VE	0.39	0/2216	0.69	0/3012
1	VJ	0.39	0/2216	0.69	0/3012
1	VO	0.39	0/2216	0.69	0/3012
1	W4	0.39	0/2216	0.71	2/3012 (0.1%)
1	W9	0.39	0/2216	0.71	2/3012 (0.1%)
1	WE	0.39	0/2216	0.71	2/3012 (0.1%)
1	WJ	0.39	0/2216	0.71	2/3012 (0.1%)
1	WO	0.39	0/2216	0.71	2/3012 (0.1%)
1	X4	0.35	0/2253	0.65	0/3064
1	X9	0.35	0/2253	0.65	0/3064
1	XE	0.35	0/2253	0.65	0/3064
1	XJ	0.35	0/2253	0.65	0/3064
1	XO	0.35	0/2253	0.65	0/3064
1	Y4	0.35	0/2253	0.63	0/3064
1	Y9	0.36	0/2253	0.63	0/3064
1	YE	0.36	0/2253	0.63	0/3064
1	YJ	0.36	0/2253	0.63	0/3064
1	YO	0.36	0/2253	0.63	0/3064
1	Z4	0.37	0/2251	0.67	0/3061
1	Z9	0.37	0/2251	0.67	0/3061
1	ZE	0.37	0/2251	0.67	0/3061
1	ZJ	0.37	0/2251	0.67	0/3061
1	ZO	0.37	0/2251	0.67	0/3061
2	A1	0.40	0/652	0.65	2/892 (0.2%)
2	A2	0.40	0/652	0.65	2/892 (0.2%)
2	A3	0.39	0/652	0.65	2/892 (0.2%)
2	A6	0.40	0/652	0.65	2/892 (0.2%)
2	A7	0.40	0/652	0.65	2/892 (0.2%)
2	A8	0.40	0/652	0.65	2/892 (0.2%)
2	AB	0.40	0/652	0.65	2/892 (0.2%)
2	AC	0.40	0/652	0.65	2/892 (0.2%)
2	AD	0.40	0/652	0.65	2/892 (0.2%)
2	AG	0.40	0/652	0.65	2/892 (0.2%)
2	AH	0.40	0/652	0.65	2/892 (0.2%)
2	AI	0.40	0/652	0.65	2/892 (0.2%)
2	AL	0.40	0/652	0.65	2/892 (0.2%)
2	AM	0.39	0/652	0.65	2/892 (0.2%)
2	AN	0.40	0/652	0.65	2/892 (0.2%)
2	B2	0.40	0/652	0.65	2/892 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	B3	0.40	0/652	0.65	2/892 (0.2%)
2	B7	0.39	0/652	0.65	2/892 (0.2%)
2	B8	0.40	0/652	0.65	2/892 (0.2%)
2	BC	0.40	0/652	0.65	2/892 (0.2%)
2	BD	0.40	0/652	0.65	2/892 (0.2%)
2	BH	0.40	0/652	0.65	2/892 (0.2%)
2	BI	0.40	0/652	0.65	2/892 (0.2%)
2	BM	0.39	0/652	0.65	2/892 (0.2%)
2	BN	0.40	0/652	0.65	2/892 (0.2%)
2	C2	0.40	0/652	0.65	2/892 (0.2%)
2	C3	0.40	0/652	0.65	2/892 (0.2%)
2	C7	0.40	0/652	0.65	2/892 (0.2%)
2	C8	0.40	0/652	0.65	2/892 (0.2%)
2	CC	0.40	0/652	0.65	2/892 (0.2%)
2	CD	0.40	0/652	0.65	2/892 (0.2%)
2	CH	0.40	0/652	0.65	2/892 (0.2%)
2	CI	0.40	0/652	0.65	2/892 (0.2%)
2	CM	0.40	0/652	0.65	2/892 (0.2%)
2	CN	0.40	0/652	0.65	2/892 (0.2%)
2	D2	0.39	0/652	0.65	2/892 (0.2%)
2	D3	0.40	0/652	0.65	2/892 (0.2%)
2	D7	0.40	0/652	0.65	2/892 (0.2%)
2	D8	0.40	0/652	0.65	2/892 (0.2%)
2	DC	0.40	0/652	0.65	2/892 (0.2%)
2	DD	0.40	0/652	0.65	2/892 (0.2%)
2	DH	0.39	0/652	0.65	2/892 (0.2%)
2	DI	0.40	0/652	0.65	2/892 (0.2%)
2	DM	0.39	0/652	0.65	2/892 (0.2%)
2	DN	0.40	0/652	0.65	2/892 (0.2%)
2	E2	0.39	0/652	0.65	2/892 (0.2%)
2	E3	0.40	0/652	0.65	2/892 (0.2%)
2	E7	0.39	0/652	0.65	2/892 (0.2%)
2	E8	0.40	0/652	0.65	2/892 (0.2%)
2	EC	0.40	0/652	0.65	2/892 (0.2%)
2	ED	0.40	0/652	0.65	2/892 (0.2%)
2	EH	0.40	0/652	0.65	2/892 (0.2%)
2	EI	0.40	0/652	0.65	2/892 (0.2%)
2	EM	0.40	0/652	0.65	2/892 (0.2%)
2	EN	0.40	0/652	0.65	2/892 (0.2%)
3	F2	0.42	0/61	1.07	0/81
3	F3	0.43	0/61	1.06	0/81
3	F7	0.42	0/61	1.07	0/81
3	F8	0.43	0/61	1.06	0/81

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	FC	0.43	0/61	1.07	0/81
3	FD	0.42	0/61	1.07	0/81
3	FH	0.42	0/61	1.07	0/81
3	FI	0.43	0/61	1.07	0/81
3	FM	0.43	0/61	1.07	0/81
3	FN	0.43	0/61	1.07	0/81
4	2A	0.59	1/1482 (0.1%)	0.95	5/2021 (0.2%)
4	2B	0.52	0/1485	0.77	1/2024 (0.0%)
4	2C	0.59	1/1482 (0.1%)	0.95	5/2021 (0.2%)
4	2D	0.52	0/1488	0.77	1/2028 (0.0%)
4	2E	0.59	1/1482 (0.1%)	0.95	5/2021 (0.2%)
4	2F	0.52	0/1488	0.77	1/2028 (0.0%)
4	2G	0.59	1/1479 (0.1%)	0.95	6/2018 (0.3%)
4	2H	0.53	0/1485	0.77	1/2025 (0.0%)
4	2I	0.59	1/1482 (0.1%)	0.95	5/2021 (0.2%)
4	2J	0.52	0/1488	0.77	1/2028 (0.0%)
4	2K	0.59	1/1479 (0.1%)	0.95	5/2016 (0.2%)
4	2L	0.52	0/1488	0.77	1/2028 (0.0%)
5	1A	0.49	0/2785	0.68	1/3794 (0.0%)
5	1B	0.49	0/2794	0.68	1/3804 (0.0%)
5	1C	0.49	0/2782	0.67	1/3790 (0.0%)
5	1D	0.49	0/2791	0.68	1/3801 (0.0%)
5	1E	0.49	0/2788	0.67	1/3797 (0.0%)
5	1F	0.49	0/2788	0.68	1/3797 (0.0%)
5	1G	0.49	0/2794	0.68	1/3804 (0.0%)
5	1H	0.49	0/2788	0.68	1/3797 (0.0%)
5	1I	0.49	0/2788	0.67	1/3797 (0.0%)
5	1J	0.49	0/2788	0.68	1/3797 (0.0%)
5	1K	0.49	0/2788	0.68	1/3797 (0.0%)
5	1L	0.49	0/2788	0.68	1/3797 (0.0%)
6	4A	0.50	0/982	0.80	1/1337 (0.1%)
6	4B	0.50	0/982	0.80	1/1337 (0.1%)
6	4C	0.50	0/982	0.80	1/1337 (0.1%)
6	4D	0.50	0/982	0.80	1/1337 (0.1%)
6	4E	0.50	0/982	0.80	1/1337 (0.1%)
6	4F	0.50	0/982	0.80	1/1337 (0.1%)
7	3A	0.51	0/875	0.77	0/1182
7	3B	0.51	0/875	0.77	0/1182
7	3C	0.51	0/875	0.77	0/1182
7	3D	0.51	0/875	0.77	0/1182
7	3E	0.51	0/875	0.77	0/1182
7	3F	0.51	0/875	0.77	0/1182
8	50	0.38	0/987	0.75	0/1332

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
8	5I	0.39	0/987	0.75	0/1332
8	5J	0.38	0/987	0.75	0/1332
8	5K	0.39	0/987	0.74	0/1332
8	5A	0.46	0/987	0.82	0/1332
8	5B	0.46	0/987	0.82	0/1332
8	5C	0.46	0/987	0.82	0/1332
8	5D	0.46	0/987	0.82	0/1332
8	5E	0.46	0/987	0.82	0/1332
8	5F	0.47	0/987	0.82	0/1332
8	5G	0.38	0/987	0.74	0/1332
8	5H	0.38	0/987	0.75	0/1332
8	5I	0.38	0/987	0.75	0/1332
8	5J	0.38	0/987	0.74	0/1332
8	5K	0.38	0/987	0.74	0/1332
8	5L	0.38	0/987	0.75	0/1332
8	5M	0.38	0/987	0.75	0/1332
8	5N	0.38	0/987	0.75	0/1332
8	5O	0.38	0/987	0.75	0/1332
8	5P	0.38	0/987	0.74	0/1332
8	5Q	0.38	0/987	0.75	0/1332
8	5R	0.38	0/987	0.75	0/1332
8	5S	0.38	0/987	0.75	0/1332
8	5T	0.38	0/987	0.75	0/1332
8	5U	0.38	0/987	0.75	0/1332
8	5V	0.38	0/987	0.75	0/1332
8	5W	0.38	0/987	0.75	0/1332
8	5X	0.38	0/987	0.75	0/1332
8	5Y	0.38	0/987	0.75	0/1332
8	5Z	0.39	0/987	0.75	0/1332
9	7A	0.51	0/2222	0.83	0/3010
9	7B	0.51	0/2222	0.83	0/3010
9	7C	0.52	0/2222	0.82	0/3010
10	8A	0.52	0/3292	0.79	4/4459 (0.1%)
10	8B	0.52	0/3292	0.79	4/4459 (0.1%)
10	8C	0.52	0/3292	0.79	4/4459 (0.1%)
11	6A	0.27	0/1085	0.58	0/1472
11	6B	0.28	0/1085	0.58	0/1472
11	6C	0.28	0/1085	0.57	0/1472
11	6D	0.28	0/1085	0.59	0/1472
11	6E	0.28	0/1085	0.57	0/1472
11	6F	0.28	0/1085	0.59	0/1472
All	All	0.41	11/475156 (0.0%)	0.71	325/646033 (0.1%)

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K9	251	ALA	C-N	-8.73	1.21	1.33
1	KE	251	ALA	C-N	-8.72	1.21	1.33
1	KJ	251	ALA	C-N	-8.71	1.21	1.33
1	K4	251	ALA	C-N	-8.71	1.21	1.33
1	KO	251	ALA	C-N	-8.66	1.21	1.33
4	2C	114	PRO	N-CD	-5.90	1.39	1.47
4	2I	114	PRO	N-CD	-5.90	1.39	1.47
4	2A	114	PRO	N-CD	-5.86	1.39	1.47
4	2E	114	PRO	N-CD	-5.86	1.39	1.47
4	2G	114	PRO	N-CD	-5.85	1.39	1.47
4	2K	114	PRO	N-CD	-5.82	1.39	1.47

All (325) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	QE	181	ARG	N-CA-C	-9.23	103.12	114.75
1	QJ	181	ARG	N-CA-C	-9.22	103.13	114.75
1	QO	181	ARG	N-CA-C	-9.21	103.14	114.75
1	Q4	181	ARG	N-CA-C	-9.21	103.15	114.75
1	Q9	181	ARG	N-CA-C	-9.20	103.15	114.75
4	2I	132	VAL	N-CA-C	-9.03	100.21	110.05
4	2C	132	VAL	N-CA-C	-9.02	100.22	110.05
4	2K	132	VAL	N-CA-C	-9.01	100.23	110.05
4	2A	132	VAL	N-CA-C	-9.00	100.25	110.05
4	2G	132	VAL	N-CA-C	-8.99	100.25	110.05
4	2E	132	VAL	N-CA-C	-8.98	100.26	110.05
1	P4	151	THR	N-CA-C	8.76	121.85	107.23
1	PO	151	THR	N-CA-C	8.75	121.85	107.23
1	PJ	151	THR	N-CA-C	8.74	121.83	107.23
1	PE	151	THR	N-CA-C	8.74	121.83	107.23
1	P9	151	THR	N-CA-C	8.74	121.82	107.23
1	SO	257	ALA	N-CA-C	-8.44	102.16	111.36
1	SE	257	ALA	N-CA-C	-8.41	102.19	111.36
1	SJ	257	ALA	N-CA-C	-8.41	102.20	111.36
1	S4	257	ALA	N-CA-C	-8.40	102.20	111.36
1	S9	257	ALA	N-CA-C	-8.40	102.20	111.36
4	2L	73	GLY	N-CA-C	7.88	122.44	112.83
4	2F	73	GLY	N-CA-C	7.88	122.44	112.83
4	2H	73	GLY	N-CA-C	7.87	122.43	112.83
4	2B	73	GLY	N-CA-C	7.86	122.42	112.83
4	2J	73	GLY	N-CA-C	7.86	122.42	112.83
4	2D	73	GLY	N-CA-C	7.84	122.40	112.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	WO	251	ALA	N-CA-C	7.61	119.22	111.07
1	WJ	251	ALA	N-CA-C	7.61	119.21	111.07
1	W4	251	ALA	N-CA-C	7.60	119.20	111.07
1	WE	251	ALA	N-CA-C	7.59	119.19	111.07
1	W9	251	ALA	N-CA-C	7.59	119.19	111.07
1	BP	357	LYS	CA-C-N	7.31	126.58	118.97
1	BP	357	LYS	C-N-CA	7.31	126.58	118.97
1	LJ	257	ALA	N-CA-C	-7.31	103.46	112.38
1	B5	357	LYS	CA-C-N	7.30	126.56	118.97
1	B5	357	LYS	C-N-CA	7.30	126.56	118.97
1	L4	257	ALA	N-CA-C	-7.29	103.48	112.38
1	BK	357	LYS	CA-C-N	7.29	126.55	118.97
1	BK	357	LYS	C-N-CA	7.29	126.55	118.97
1	L9	257	ALA	N-CA-C	-7.29	103.48	112.38
1	LE	257	ALA	N-CA-C	-7.29	103.49	112.38
1	BA	357	LYS	CA-C-N	7.29	126.55	118.97
1	BA	357	LYS	C-N-CA	7.29	126.55	118.97
1	LO	257	ALA	N-CA-C	-7.28	103.49	112.38
1	BF	357	LYS	CA-C-N	7.26	126.52	118.97
1	BF	357	LYS	C-N-CA	7.26	126.52	118.97
1	F9	220	THR	N-CA-C	7.13	119.88	108.41
1	FO	220	THR	N-CA-C	7.12	119.87	108.41
1	FE	220	THR	N-CA-C	7.12	119.86	108.41
1	F4	220	THR	N-CA-C	7.10	119.85	108.41
1	FJ	220	THR	N-CA-C	7.08	119.81	108.41
1	BK	190	ILE	N-CA-C	7.01	117.77	110.62
1	BF	190	ILE	N-CA-C	7.00	117.77	110.62
1	B5	190	ILE	N-CA-C	7.00	117.76	110.62
1	BA	190	ILE	N-CA-C	7.00	117.76	110.62
1	BP	190	ILE	N-CA-C	6.97	117.73	110.62
4	2E	116	ILE	N-CA-C	-6.97	106.11	111.62
4	2C	116	ILE	N-CA-C	-6.96	106.12	111.62
1	SJ	129	VAL	N-CA-C	6.95	119.21	107.18
4	2G	116	ILE	N-CA-C	-6.95	106.13	111.62
4	2I	116	ILE	N-CA-C	-6.95	106.13	111.62
1	S9	129	VAL	N-CA-C	6.94	119.19	107.18
4	2A	116	ILE	N-CA-C	-6.94	106.14	111.62
1	S4	129	VAL	N-CA-C	6.93	119.18	107.18
1	SE	129	VAL	N-CA-C	6.93	119.18	107.18
1	SO	129	VAL	N-CA-C	6.93	119.17	107.18
4	2K	116	ILE	N-CA-C	-6.91	106.16	111.62
1	UO	252	VAL	N-CA-C	6.67	117.42	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	UE	252	VAL	N-CA-C	6.65	117.40	110.62
1	U4	252	VAL	N-CA-C	6.64	117.40	110.62
1	U9	252	VAL	N-CA-C	6.63	117.38	110.62
1	UJ	252	VAL	N-CA-C	6.62	117.38	110.62
1	GE	260	ASP	N-CA-C	6.54	119.41	111.82
1	GO	260	ASP	N-CA-C	6.54	119.41	111.82
1	GJ	260	ASP	N-CA-C	6.54	119.41	111.82
1	G4	260	ASP	N-CA-C	6.54	119.41	111.82
1	G9	260	ASP	N-CA-C	6.54	119.40	111.82
1	AK	216	VAL	CA-C-N	6.30	133.57	121.54
1	AK	216	VAL	C-N-CA	6.30	133.57	121.54
1	AA	216	VAL	CA-C-N	6.29	133.56	121.54
1	AA	216	VAL	C-N-CA	6.29	133.56	121.54
1	AP	216	VAL	CA-C-N	6.29	133.56	121.54
1	AP	216	VAL	C-N-CA	6.29	133.56	121.54
4	2I	29	PHE	CA-C-N	6.29	133.55	121.54
4	2I	29	PHE	C-N-CA	6.29	133.55	121.54
4	2C	29	PHE	CA-C-N	6.29	133.55	121.54
4	2C	29	PHE	C-N-CA	6.29	133.55	121.54
1	A5	216	VAL	CA-C-N	6.29	133.54	121.54
1	A5	216	VAL	C-N-CA	6.29	133.54	121.54
1	W4	129	VAL	N-CA-C	6.29	117.14	107.78
4	2K	29	PHE	CA-C-N	6.28	133.54	121.54
4	2K	29	PHE	C-N-CA	6.28	133.54	121.54
1	AF	216	VAL	CA-C-N	6.28	133.54	121.54
1	AF	216	VAL	C-N-CA	6.28	133.54	121.54
1	WJ	129	VAL	N-CA-C	6.28	117.13	107.78
4	2A	29	PHE	CA-C-N	6.28	133.53	121.54
4	2A	29	PHE	C-N-CA	6.28	133.53	121.54
1	WE	129	VAL	N-CA-C	6.27	117.13	107.78
1	WO	129	VAL	N-CA-C	6.27	117.12	107.78
1	W9	129	VAL	N-CA-C	6.27	117.12	107.78
4	2G	29	PHE	CA-C-N	6.27	133.51	121.54
4	2G	29	PHE	C-N-CA	6.27	133.51	121.54
4	2E	29	PHE	CA-C-N	6.25	133.48	121.54
4	2E	29	PHE	C-N-CA	6.25	133.48	121.54
1	BA	188	PHE	N-CA-C	6.22	123.42	114.39
1	BK	188	PHE	N-CA-C	6.22	123.41	114.39
1	B5	188	PHE	N-CA-C	6.21	123.39	114.39
1	BP	188	PHE	N-CA-C	6.19	123.37	114.39
1	BF	188	PHE	N-CA-C	6.18	123.35	114.39
1	PJ	158	ALA	N-CA-C	-6.11	99.54	107.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P4	158	ALA	N-CA-C	-6.09	99.56	107.73
1	PO	158	ALA	N-CA-C	-6.09	99.56	107.73
1	PE	158	ALA	N-CA-C	-6.09	99.57	107.73
1	P9	158	ALA	N-CA-C	-6.08	99.58	107.73
1	BK	333	GLY	N-CA-C	5.99	119.24	110.38
1	BA	333	GLY	N-CA-C	5.96	119.20	110.38
1	B5	333	GLY	N-CA-C	5.94	119.18	110.38
1	BF	333	GLY	N-CA-C	5.94	119.17	110.38
1	BP	333	GLY	N-CA-C	5.93	119.16	110.38
1	S9	129	VAL	N-CA-CB	-5.90	104.67	112.34
1	SJ	129	VAL	N-CA-CB	-5.89	104.68	112.34
1	SE	129	VAL	N-CA-CB	-5.89	104.68	112.34
1	S4	129	VAL	N-CA-CB	-5.88	104.69	112.34
1	SO	129	VAL	N-CA-CB	-5.88	104.69	112.34
4	2G	87	THR	N-CA-C	-5.84	104.83	111.14
4	2I	87	THR	N-CA-C	-5.84	104.83	111.14
4	2E	87	THR	N-CA-C	-5.84	104.83	111.14
4	2A	87	THR	N-CA-C	-5.83	104.84	111.14
4	2C	87	THR	N-CA-C	-5.82	104.86	111.14
10	8B	225	ILE	CA-C-N	5.81	125.50	119.05
10	8B	225	ILE	C-N-CA	5.81	125.50	119.05
4	2K	87	THR	N-CA-C	-5.81	104.87	111.14
10	8C	225	ILE	CA-C-N	5.79	125.47	119.05
10	8C	225	ILE	C-N-CA	5.79	125.47	119.05
10	8A	225	ILE	CA-C-N	5.78	125.46	119.05
10	8A	225	ILE	C-N-CA	5.78	125.46	119.05
6	4E	48	GLY	N-CA-C	5.74	124.05	112.34
6	4C	48	GLY	N-CA-C	5.73	124.02	112.34
6	4F	48	GLY	N-CA-C	5.72	124.01	112.34
6	4D	48	GLY	N-CA-C	5.72	124.01	112.34
6	4B	48	GLY	N-CA-C	5.71	124.00	112.34
6	4A	48	GLY	N-CA-C	5.71	123.99	112.34
5	1H	43	PRO	CB-CA-C	5.67	116.56	111.40
5	1D	43	PRO	CB-CA-C	5.63	116.52	111.40
5	1B	43	PRO	CB-CA-C	5.62	116.51	111.40
5	1F	43	PRO	CB-CA-C	5.61	116.51	111.40
5	1J	43	PRO	CB-CA-C	5.61	116.51	111.40
5	1L	43	PRO	CB-CA-C	5.60	116.50	111.40
5	1I	45	ASP	N-CA-C	5.58	119.95	113.20
5	1A	45	ASP	N-CA-C	5.54	119.90	113.20
5	1C	45	ASP	N-CA-C	5.53	119.90	113.20
5	1E	45	ASP	N-CA-C	5.52	119.88	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1G	45	ASP	N-CA-C	5.50	119.86	113.20
5	1K	45	ASP	N-CA-C	5.50	119.85	113.20
1	BF	352	ASP	CA-C-N	5.45	126.66	119.84
1	BF	352	ASP	C-N-CA	5.45	126.66	119.84
1	QO	90	LEU	CA-C-N	5.44	130.54	122.82
1	QO	90	LEU	C-N-CA	5.44	130.54	122.82
1	NO	252	VAL	N-CA-C	-5.43	107.56	112.12
1	B5	352	ASP	CA-C-N	5.41	126.61	119.84
1	B5	352	ASP	C-N-CA	5.41	126.61	119.84
1	CA	220	THR	N-CA-C	5.41	117.06	108.67
1	N4	252	VAL	N-CA-C	-5.41	107.58	112.12
1	Q4	90	LEU	CA-C-N	5.41	130.50	122.82
1	Q4	90	LEU	C-N-CA	5.41	130.50	122.82
1	BP	352	ASP	CA-C-N	5.41	126.60	119.84
1	BP	352	ASP	C-N-CA	5.41	126.60	119.84
1	NJ	252	VAL	N-CA-C	-5.40	107.58	112.12
1	BK	352	ASP	CA-C-N	5.40	126.59	119.84
1	BK	352	ASP	C-N-CA	5.40	126.59	119.84
1	QE	90	LEU	CA-C-N	5.40	130.49	122.82
1	QE	90	LEU	C-N-CA	5.40	130.49	122.82
1	NE	252	VAL	N-CA-C	-5.40	107.59	112.12
1	C5	220	THR	N-CA-C	5.40	117.03	108.67
1	CK	220	THR	N-CA-C	5.40	117.03	108.67
1	CP	220	THR	N-CA-C	5.39	117.03	108.67
1	QJ	90	LEU	CA-C-N	5.39	130.48	122.82
1	QJ	90	LEU	C-N-CA	5.39	130.48	122.82
1	Q9	90	LEU	CA-C-N	5.39	130.48	122.82
1	Q9	90	LEU	C-N-CA	5.39	130.48	122.82
1	N9	252	VAL	N-CA-C	-5.39	107.59	112.12
1	BA	352	ASP	CA-C-N	5.39	126.57	119.84
1	BA	352	ASP	C-N-CA	5.39	126.57	119.84
1	CF	220	THR	N-CA-C	5.38	117.02	108.67
2	AI	63	ILE	CA-C-N	-5.28	113.89	122.65
2	AI	63	ILE	C-N-CA	-5.28	113.89	122.65
2	D8	63	ILE	CA-C-N	-5.27	113.90	122.65
2	D8	63	ILE	C-N-CA	-5.27	113.90	122.65
2	AD	63	ILE	CA-C-N	-5.27	113.90	122.65
2	AD	63	ILE	C-N-CA	-5.27	113.90	122.65
2	DN	63	ILE	CA-C-N	-5.26	113.92	122.65
2	DN	63	ILE	C-N-CA	-5.26	113.92	122.65
2	AB	63	ILE	CA-C-N	-5.26	113.92	122.65
2	AB	63	ILE	C-N-CA	-5.26	113.92	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B7	63	ILE	CA-C-N	-5.26	113.92	122.65
2	B7	63	ILE	C-N-CA	-5.26	113.92	122.65
2	BH	63	ILE	CA-C-N	-5.26	113.92	122.65
2	BH	63	ILE	C-N-CA	-5.26	113.92	122.65
2	DI	63	ILE	CA-C-N	-5.25	113.93	122.65
2	DI	63	ILE	C-N-CA	-5.25	113.93	122.65
2	D3	63	ILE	CA-C-N	-5.25	113.93	122.65
2	D3	63	ILE	C-N-CA	-5.25	113.93	122.65
2	BC	63	ILE	CA-C-N	-5.25	113.93	122.65
2	BC	63	ILE	C-N-CA	-5.25	113.93	122.65
2	A3	63	ILE	CA-C-N	-5.25	113.94	122.65
2	A3	63	ILE	C-N-CA	-5.25	113.94	122.65
2	DD	63	ILE	CA-C-N	-5.24	113.94	122.65
2	DD	63	ILE	C-N-CA	-5.24	113.94	122.65
2	D7	63	ILE	CA-C-N	-5.24	113.95	122.65
2	D7	63	ILE	C-N-CA	-5.24	113.95	122.65
2	B2	63	ILE	CA-C-N	-5.24	113.95	122.65
2	B2	63	ILE	C-N-CA	-5.24	113.95	122.65
2	A8	63	ILE	CA-C-N	-5.24	113.95	122.65
2	A8	63	ILE	C-N-CA	-5.24	113.95	122.65
2	BN	63	ILE	CA-C-N	-5.24	113.96	122.65
2	BN	63	ILE	C-N-CA	-5.24	113.96	122.65
2	A1	63	ILE	CA-C-N	-5.23	113.96	122.65
2	A1	63	ILE	C-N-CA	-5.23	113.96	122.65
2	DM	63	ILE	CA-C-N	-5.23	113.97	122.65
2	DM	63	ILE	C-N-CA	-5.23	113.97	122.65
2	AM	63	ILE	CA-C-N	-5.23	113.97	122.65
2	AM	63	ILE	C-N-CA	-5.23	113.97	122.65
2	E7	63	ILE	CA-C-N	-5.23	113.97	122.65
2	E7	63	ILE	C-N-CA	-5.23	113.97	122.65
2	AN	63	ILE	CA-C-N	-5.23	113.97	122.65
2	AN	63	ILE	C-N-CA	-5.23	113.97	122.65
2	A6	63	ILE	CA-C-N	-5.23	113.97	122.65
2	A6	63	ILE	C-N-CA	-5.23	113.97	122.65
2	B3	63	ILE	CA-C-N	-5.23	113.97	122.65
2	B3	63	ILE	C-N-CA	-5.23	113.97	122.65
2	D2	63	ILE	CA-C-N	-5.23	113.97	122.65
2	D2	63	ILE	C-N-CA	-5.23	113.97	122.65
2	EN	63	ILE	CA-C-N	-5.22	113.98	122.65
2	EN	63	ILE	C-N-CA	-5.22	113.98	122.65
2	BD	63	ILE	CA-C-N	-5.22	113.98	122.65
2	BD	63	ILE	C-N-CA	-5.22	113.98	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B8	63	ILE	CA-C-N	-5.22	113.98	122.65
2	B8	63	ILE	C-N-CA	-5.22	113.98	122.65
2	BM	63	ILE	CA-C-N	-5.22	113.98	122.65
2	BM	63	ILE	C-N-CA	-5.22	113.98	122.65
2	BI	63	ILE	CA-C-N	-5.22	113.98	122.65
2	BI	63	ILE	C-N-CA	-5.22	113.98	122.65
2	AL	63	ILE	CA-C-N	-5.22	113.99	122.65
2	AL	63	ILE	C-N-CA	-5.22	113.99	122.65
2	E8	63	ILE	CA-C-N	-5.22	113.99	122.65
2	E8	63	ILE	C-N-CA	-5.22	113.99	122.65
2	DH	63	ILE	CA-C-N	-5.22	113.99	122.65
2	DH	63	ILE	C-N-CA	-5.22	113.99	122.65
2	AG	63	ILE	CA-C-N	-5.21	114.00	122.65
2	AG	63	ILE	C-N-CA	-5.21	114.00	122.65
2	EH	63	ILE	CA-C-N	-5.21	113.99	122.65
2	EH	63	ILE	C-N-CA	-5.21	113.99	122.65
2	DC	63	ILE	CA-C-N	-5.21	114.00	122.65
2	DC	63	ILE	C-N-CA	-5.21	114.00	122.65
2	EC	63	ILE	CA-C-N	-5.21	114.00	122.65
2	EC	63	ILE	C-N-CA	-5.21	114.00	122.65
2	A7	63	ILE	CA-C-N	-5.21	114.00	122.65
2	A7	63	ILE	C-N-CA	-5.21	114.00	122.65
2	A2	63	ILE	CA-C-N	-5.21	114.00	122.65
2	A2	63	ILE	C-N-CA	-5.21	114.00	122.65
2	AC	63	ILE	CA-C-N	-5.21	114.00	122.65
2	AC	63	ILE	C-N-CA	-5.21	114.00	122.65
2	E2	63	ILE	CA-C-N	-5.21	114.01	122.65
2	E2	63	ILE	C-N-CA	-5.21	114.01	122.65
2	ED	63	ILE	CA-C-N	-5.21	114.01	122.65
2	ED	63	ILE	C-N-CA	-5.21	114.01	122.65
2	CC	63	ILE	CA-C-N	-5.21	114.01	122.65
2	CC	63	ILE	C-N-CA	-5.21	114.01	122.65
2	AH	63	ILE	CA-C-N	-5.20	114.02	122.65
2	AH	63	ILE	C-N-CA	-5.20	114.02	122.65
2	EM	63	ILE	CA-C-N	-5.20	114.02	122.65
2	EM	63	ILE	C-N-CA	-5.20	114.02	122.65
2	EI	63	ILE	CA-C-N	-5.20	114.02	122.65
2	EI	63	ILE	C-N-CA	-5.20	114.02	122.65
2	E3	63	ILE	CA-C-N	-5.20	114.02	122.65
2	E3	63	ILE	C-N-CA	-5.20	114.02	122.65
2	C7	63	ILE	CA-C-N	-5.20	114.02	122.65
2	C7	63	ILE	C-N-CA	-5.20	114.02	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	CH	63	ILE	CA-C-N	-5.20	114.03	122.65
2	CH	63	ILE	C-N-CA	-5.20	114.03	122.65
2	C2	63	ILE	CA-C-N	-5.19	114.03	122.65
2	C2	63	ILE	C-N-CA	-5.19	114.03	122.65
2	CM	63	ILE	CA-C-N	-5.18	114.05	122.65
2	CM	63	ILE	C-N-CA	-5.18	114.05	122.65
10	8C	159	PRO	CA-C-N	5.17	131.42	121.54
10	8C	159	PRO	C-N-CA	5.17	131.42	121.54
10	8B	159	PRO	CA-C-N	5.17	131.41	121.54
10	8B	159	PRO	C-N-CA	5.17	131.41	121.54
2	CD	63	ILE	CA-C-N	-5.16	114.08	122.65
2	CD	63	ILE	C-N-CA	-5.16	114.08	122.65
1	G9	258	VAL	N-CA-C	-5.16	106.11	111.58
10	8A	159	PRO	CA-C-N	5.16	131.39	121.54
10	8A	159	PRO	C-N-CA	5.16	131.39	121.54
2	CN	63	ILE	CA-C-N	-5.15	114.11	122.65
2	CN	63	ILE	C-N-CA	-5.15	114.11	122.65
2	C3	63	ILE	CA-C-N	-5.14	114.11	122.65
2	C3	63	ILE	C-N-CA	-5.14	114.11	122.65
2	CI	63	ILE	CA-C-N	-5.14	114.11	122.65
2	CI	63	ILE	C-N-CA	-5.14	114.11	122.65
2	C8	63	ILE	CA-C-N	-5.14	114.11	122.65
2	C8	63	ILE	C-N-CA	-5.14	114.11	122.65
1	G4	258	VAL	N-CA-C	-5.13	106.14	111.58
1	GJ	258	VAL	N-CA-C	-5.13	106.14	111.58
1	GO	258	VAL	N-CA-C	-5.13	106.14	111.58
1	PE	220	THR	N-CA-C	5.12	117.08	109.25
1	GE	258	VAL	N-CA-C	-5.12	106.16	111.58
1	PO	220	THR	N-CA-C	5.10	117.06	109.25
1	P4	220	THR	N-CA-C	5.10	117.05	109.25
1	PJ	220	THR	N-CA-C	5.10	117.05	109.25
1	P9	220	THR	N-CA-C	5.08	117.02	109.25
1	P4	219	PRO	N-CA-C	5.04	119.23	111.21
1	PE	219	PRO	N-CA-C	5.04	119.23	111.21
1	PJ	219	PRO	N-CA-C	5.04	119.22	111.21
1	P9	219	PRO	N-CA-C	5.03	119.20	111.21
1	PO	219	PRO	N-CA-C	5.02	119.19	111.21
1	N9	225	LYS	CA-C-N	5.02	129.54	122.46
1	N9	225	LYS	C-N-CA	5.02	129.54	122.46
1	N4	225	LYS	CA-C-N	5.01	129.53	122.46
1	N4	225	LYS	C-N-CA	5.01	129.53	122.46
4	2G	30	ALA	N-CA-C	-5.01	100.12	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	NO	225	LYS	CA-C-N	5.01	129.52	122.46
1	NO	225	LYS	C-N-CA	5.01	129.52	122.46
1	NJ	225	LYS	CA-C-N	5.01	129.52	122.46
1	NJ	225	LYS	C-N-CA	5.01	129.52	122.46

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A4	2173	0	2142	39	0
1	A5	2199	0	2160	77	0
1	A9	2173	0	2142	38	0
1	AA	2205	0	2172	68	0
1	AE	2173	0	2142	40	0
1	AF	2209	0	2176	56	0
1	AJ	2173	0	2142	42	0
1	AK	2209	0	2176	70	0
1	AO	2173	0	2142	40	0
1	AP	2201	0	2168	93	0
1	B4	2209	0	2176	40	0
1	B5	2009	0	1979	71	0
1	B9	2209	0	2176	42	0
1	BA	2014	0	1984	64	0
1	BE	2209	0	2176	41	0
1	BF	2015	0	1991	71	0
1	BJ	2209	0	2176	38	0
1	BK	2009	0	1977	80	0
1	BO	2209	0	2176	36	0
1	BP	2009	0	1982	74	0
1	C4	2209	0	2176	37	0
1	C5	2209	0	2176	37	0
1	C9	2209	0	2176	42	0
1	CA	2209	0	2176	36	0
1	CE	2209	0	2176	43	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	CF	2209	0	2176	37	0
1	CJ	2209	0	2176	43	0
1	CK	2209	0	2176	39	0
1	CO	2209	0	2176	40	0
1	CP	2209	0	2176	37	0
1	D4	2209	0	2176	52	0
1	D9	2209	0	2176	52	0
1	DE	2209	0	2176	52	0
1	DJ	2209	0	2176	52	0
1	DO	2209	0	2176	50	0
1	E4	2209	0	2176	61	0
1	E9	2209	0	2176	59	0
1	EE	2209	0	2176	59	0
1	EJ	2209	0	2176	58	0
1	EO	2209	0	2176	58	0
1	F4	2209	0	2176	58	0
1	F9	2209	0	2176	60	0
1	FE	2209	0	2176	59	0
1	FJ	2209	0	2176	59	0
1	FO	2209	0	2176	59	0
1	G4	2209	0	2176	44	0
1	G9	2209	0	2176	45	0
1	GE	2209	0	2176	46	0
1	GJ	2209	0	2176	43	0
1	GO	2209	0	2176	46	0
1	H4	2173	0	2142	37	0
1	H9	2173	0	2142	37	0
1	HE	2173	0	2142	38	0
1	HJ	2173	0	2142	38	0
1	HO	2173	0	2142	36	0
1	I4	2173	0	2142	55	0
1	I9	2173	0	2142	52	0
1	IE	2173	0	2142	54	0
1	IJ	2173	0	2142	54	0
1	IO	2173	0	2142	56	0
1	J4	2173	0	2142	58	0
1	J9	2173	0	2142	54	0
1	JE	2173	0	2142	56	0
1	JJ	2173	0	2142	57	0
1	JO	2173	0	2142	59	0
1	K4	2173	0	2142	49	0
1	K9	2173	0	2142	50	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	KE	2173	0	2142	47	0
1	KJ	2173	0	2142	46	0
1	KO	2173	0	2142	48	0
1	L4	2173	0	2142	53	0
1	L9	2173	0	2142	51	0
1	LE	2173	0	2142	52	0
1	LJ	2173	0	2142	49	0
1	LO	2173	0	2142	52	0
1	M4	2209	0	2176	44	0
1	M9	2209	0	2176	42	0
1	ME	2209	0	2176	41	0
1	MJ	2209	0	2176	48	0
1	MO	2209	0	2176	49	0
1	N4	2209	0	2176	46	0
1	N9	2209	0	2176	46	0
1	NE	2209	0	2176	46	0
1	NJ	2209	0	2176	47	0
1	NO	2209	0	2176	47	0
1	O4	2209	0	2176	46	0
1	O9	2209	0	2176	47	0
1	OE	2209	0	2176	48	0
1	OJ	2209	0	2176	46	0
1	OO	2209	0	2176	47	0
1	P4	2209	0	2176	43	0
1	P9	2209	0	2176	46	0
1	PE	2209	0	2176	47	0
1	PJ	2209	0	2176	43	0
1	PO	2209	0	2176	43	0
1	Q4	2209	0	2176	47	0
1	Q9	2209	0	2176	48	0
1	QE	2209	0	2176	46	0
1	QJ	2209	0	2176	47	0
1	QO	2209	0	2176	50	0
1	R4	2209	0	2176	37	0
1	R9	2209	0	2176	38	0
1	RE	2209	0	2176	39	0
1	RJ	2209	0	2176	39	0
1	RO	2209	0	2176	41	0
1	S4	2173	0	2142	48	0
1	S9	2173	0	2142	47	0
1	SE	2173	0	2142	49	0
1	SJ	2173	0	2142	48	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	SO	2173	0	2142	49	0
1	T4	2173	0	2142	44	0
1	T9	2173	0	2142	46	0
1	TE	2173	0	2142	44	0
1	TJ	2173	0	2142	43	0
1	TO	2173	0	2142	43	0
1	U4	2173	0	2142	45	0
1	U9	2173	0	2142	48	0
1	UE	2173	0	2142	44	0
1	UJ	2173	0	2142	41	0
1	UO	2173	0	2142	46	0
1	V4	2173	0	2142	46	0
1	V9	2173	0	2142	44	0
1	VE	2173	0	2142	48	0
1	VJ	2173	0	2142	44	0
1	VO	2173	0	2142	47	0
1	W4	2173	0	2142	50	0
1	W9	2173	0	2142	49	0
1	WE	2173	0	2142	48	0
1	WJ	2173	0	2142	51	0
1	WO	2173	0	2142	49	0
1	X4	2209	0	2176	36	0
1	X9	2209	0	2176	34	0
1	XE	2209	0	2176	36	0
1	XJ	2209	0	2176	35	0
1	XO	2209	0	2176	33	0
1	Y4	2209	0	2176	38	0
1	Y9	2209	0	2176	40	0
1	YE	2209	0	2176	36	0
1	YJ	2209	0	2176	38	0
1	YO	2209	0	2176	38	0
1	Z4	2207	0	2171	49	0
1	Z9	2207	0	2171	46	0
1	ZE	2207	0	2171	42	0
1	ZJ	2207	0	2171	44	0
1	ZO	2207	0	2171	51	0
2	A1	640	0	653	27	0
2	A2	640	0	653	24	0
2	A3	640	0	653	20	0
2	A6	640	0	653	27	0
2	A7	640	0	653	23	0
2	A8	640	0	653	20	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	AB	640	0	653	29	0
2	AC	640	0	653	23	0
2	AD	640	0	653	20	0
2	AG	640	0	653	28	0
2	AH	640	0	653	24	0
2	AI	640	0	653	19	0
2	AL	640	0	653	27	0
2	AM	640	0	653	23	0
2	AN	640	0	653	19	0
2	B2	640	0	653	24	0
2	B3	640	0	653	23	0
2	B7	640	0	653	23	0
2	B8	640	0	653	23	0
2	BC	640	0	653	23	0
2	BD	640	0	653	23	0
2	BH	640	0	653	24	0
2	BI	640	0	653	23	0
2	BM	640	0	653	23	0
2	BN	640	0	653	23	0
2	C2	640	0	653	19	0
2	C3	640	0	653	20	0
2	C7	640	0	653	17	0
2	C8	640	0	653	20	0
2	CC	640	0	653	19	0
2	CD	640	0	653	20	0
2	CH	640	0	653	19	0
2	CI	640	0	653	20	0
2	CM	640	0	653	18	0
2	CN	640	0	653	22	0
2	D2	640	0	653	20	0
2	D3	640	0	653	23	0
2	D7	640	0	653	19	0
2	D8	640	0	653	23	0
2	DC	640	0	653	21	0
2	DD	640	0	653	22	0
2	DH	640	0	653	22	0
2	DI	640	0	653	22	0
2	DM	640	0	653	21	0
2	DN	640	0	653	23	0
2	E2	640	0	653	17	0
2	E3	640	0	653	17	0
2	E7	640	0	653	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	E8	640	0	653	17	0
2	EC	640	0	653	20	0
2	ED	640	0	653	15	0
2	EH	640	0	653	19	0
2	EI	640	0	653	17	0
2	EM	640	0	653	20	0
2	EN	640	0	653	17	0
3	F2	62	0	73	1	0
3	F3	62	0	73	1	0
3	F7	62	0	73	1	0
3	F8	62	0	73	1	0
3	FC	62	0	73	1	0
3	FD	62	0	73	1	0
3	FH	62	0	73	1	0
3	FI	62	0	73	1	0
3	FM	62	0	73	1	0
3	FN	62	0	73	1	0
4	2A	1450	0	1474	73	0
4	2B	1453	0	1481	77	0
4	2C	1450	0	1474	51	0
4	2D	1456	0	1490	71	0
4	2E	1450	0	1474	65	0
4	2F	1456	0	1490	78	0
4	2G	1447	0	1467	58	0
4	2H	1453	0	1483	73	0
4	2I	1450	0	1474	71	0
4	2J	1456	0	1490	69	0
4	2K	1448	0	1468	57	0
4	2L	1456	0	1490	90	0
5	1A	2714	0	2688	53	0
5	1B	2723	0	2706	59	0
5	1C	2711	0	2684	48	0
5	1D	2720	0	2695	63	0
5	1E	2717	0	2695	67	0
5	1F	2717	0	2695	59	0
5	1G	2723	0	2706	69	0
5	1H	2717	0	2695	76	0
5	1I	2717	0	2695	76	0
5	1J	2717	0	2695	96	0
5	1K	2717	0	2695	98	0
5	1L	2717	0	2694	75	0
6	4A	968	0	987	46	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	4B	968	0	987	52	0
6	4C	968	0	987	53	0
6	4D	968	0	987	50	0
6	4E	968	0	987	46	0
6	4F	968	0	987	45	0
7	3A	859	0	861	40	0
7	3B	859	0	861	46	0
7	3C	859	0	861	50	0
7	3D	859	0	861	47	0
7	3E	859	0	861	43	0
7	3F	859	0	861	39	0
8	50	972	0	938	132	0
8	51	972	0	938	101	0
8	52	972	0	938	63	0
8	53	972	0	938	62	0
8	5A	972	0	938	94	0
8	5B	972	0	938	103	0
8	5C	972	0	938	112	0
8	5D	972	0	938	103	0
8	5E	972	0	938	93	0
8	5F	972	0	938	86	0
8	5G	972	0	938	50	0
8	5H	972	0	938	44	0
8	5I	972	0	938	42	0
8	5J	972	0	938	45	0
8	5K	972	0	938	56	0
8	5L	972	0	938	58	0
8	5M	972	0	938	101	0
8	5N	972	0	938	87	0
8	5O	972	0	938	89	0
8	5P	972	0	938	106	0
8	5Q	972	0	938	124	0
8	5R	972	0	938	119	0
8	5S	972	0	938	126	0
8	5T	972	0	938	150	0
8	5U	972	0	938	183	0
8	5V	972	0	938	233	0
8	5W	972	0	938	248	0
8	5X	972	0	938	178	0
8	5Y	972	0	938	83	0
8	5Z	972	0	938	113	0
9	7A	2179	0	2125	71	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	7B	2179	0	2125	68	0
9	7C	2179	0	2125	67	0
10	8A	3246	0	3223	98	0
10	8B	3246	0	3223	99	0
10	8C	3246	0	3223	98	0
11	6A	1056	0	1000	69	0
11	6B	1056	0	1000	70	0
11	6C	1056	0	1000	71	0
11	6D	1056	0	1000	68	0
11	6E	1056	0	1000	72	0
11	6F	1056	0	1000	68	0
12	7A	8	0	0	0	0
12	7B	8	0	0	0	0
12	7C	8	0	0	0	0
All	All	465916	0	460645	10633	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 11.

All (10633) 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)
8:5V:42:THR:HG23	8:5Z:116:HIS:CE1	1.14	1.65
1:Z4:151:THR:CB	4:2K:127:PRO:CA	1.75	1.61
1:AP:126:VAL:HG23	5:1K:161:GLY:C	1.27	1.60
1:BA:192:THR:HG23	5:1E:41:TRP:CD1	1.11	1.58
1:BA:192:THR:CG2	5:1E:41:TRP:CD1	1.80	1.55
1:B5:358:PRO:CD	4:2A:73:GLY:HA3	1.33	1.52
8:5W:50:TRP:HZ2	8:5U:84:PHE:CD1	1.31	1.48
1:Z4:151:THR:CB	4:2K:127:PRO:HA	1.31	1.48
1:B5:359:HIS:CA	4:2A:121:ALA:HB1	1.40	1.47
1:AP:126:VAL:CG2	5:1K:161:GLY:C	1.89	1.45
1:AP:126:VAL:CG2	5:1K:162:GLY:N	1.76	1.45
8:5V:42:THR:CG2	8:5Z:116:HIS:HE1	1.29	1.44
1:AP:126:VAL:HG21	5:1K:162:GLY:CA	1.45	1.44
1:AA:130:GLU:CD	5:1D:44:ARG:HG2	1.19	1.43
1:BK:351:ARG:HB3	5:1J:44:ARG:NH2	1.14	1.42
8:5V:44:LEU:CG	8:50:7:LYS:HA	1.43	1.42
1:BK:179:SER:HB2	4:2H:121:ALA:CB	1.52	1.39
8:5W:50:TRP:CZ2	8:5U:84:PHE:CD1	2.08	1.39
8:5X:50:TRP:HZ2	8:5V:84:PHE:CD1	1.41	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5V:44:LEU:CD2	8:50:7:LYS:O	1.69	1.38
1:Z4:151:THR:CB	4:2K:127:PRO:N	1.79	1.38
8:5M:42:THR:HG23	8:5W:116:HIS:CE1	1.58	1.37
8:5V:50:TRP:HZ2	8:5T:84:PHE:CD1	1.40	1.36
1:B5:358:PRO:HG3	4:2A:73:GLY:C	1.48	1.35
1:AK:128:ASN:CB	5:1I:41:TRP:HD1	1.38	1.35
1:AK:128:ASN:HB2	5:1I:41:TRP:CD1	1.60	1.34
1:AA:130:GLU:OE1	5:1D:44:ARG:CG	1.74	1.34
1:BK:351:ARG:HH22	5:1J:41:TRP:CG	1.27	1.33
8:5R:42:THR:HG23	8:5V:116:HIS:CE1	1.60	1.33
8:5X:50:TRP:CZ2	8:5V:84:PHE:CD1	2.15	1.32
1:BK:351:ARG:CB	5:1J:44:ARG:HH22	1.43	1.32
8:5V:44:LEU:CD1	8:50:7:LYS:HA	1.57	1.32
8:5V:50:TRP:CZ2	8:5T:84:PHE:CD1	2.16	1.32
1:AF:162:ILE:O	4:2E:125:MET:HE1	1.29	1.31
1:BK:179:SER:CB	4:2H:121:ALA:HB1	1.59	1.30
8:5W:44:LEU:N	8:50:116:HIS:HB2	1.44	1.30
1:BF:187:ALA:CA	5:1G:44:ARG:HD2	1.62	1.28
8:5U:44:LEU:HD11	8:5Z:7:LYS:C	1.58	1.28
1:BK:362:PHE:CE1	5:1J:44:ARG:NH1	2.02	1.27
1:BK:179:SER:CB	4:2H:121:ALA:CB	2.09	1.27
1:B5:359:HIS:CA	4:2A:121:ALA:CB	2.04	1.27
8:5W:44:LEU:HD21	8:5I:7:LYS:O	1.32	1.26
1:B5:359:HIS:CB	4:2A:121:ALA:CA	2.11	1.26
8:5Q:42:THR:HG23	8:5U:116:HIS:CE1	1.69	1.25
8:5U:44:LEU:HD11	8:5Z:7:LYS:O	1.34	1.25
1:BK:362:PHE:HE1	5:1J:44:ARG:NH1	1.34	1.24
1:BA:347:LEU:O	5:1E:162:GLY:HA3	1.31	1.24
1:AK:128:ASN:CB	5:1I:41:TRP:CD1	2.15	1.24
1:AP:170:HIS:ND1	4:2I:125:MET:HE1	1.54	1.23
8:5U:44:LEU:HD21	8:5Z:7:LYS:O	1.33	1.22
1:BK:351:ARG:NH2	5:1J:41:TRP:CD2	2.03	1.22
8:5X:116:HIS:CE1	8:5N:42:THR:HG23	1.75	1.22
1:B5:358:PRO:CG	4:2A:73:GLY:HA3	1.70	1.21
1:A5:216:VAL:CA	4:2L:119:LEU:HD13	1.71	1.21
1:BF:187:ALA:HA	5:1G:44:ARG:CD	1.69	1.20
1:AA:130:GLU:OE1	5:1D:44:ARG:HG2	1.05	1.19
8:5R:44:LEU:HD21	8:5W:7:LYS:O	1.42	1.19
8:5W:44:LEU:CG	8:5I:7:LYS:HA	1.71	1.19
8:5V:44:LEU:HD21	8:50:7:LYS:C	1.65	1.19
1:AF:345:PRO:HB2	5:1F:161:GLY:HA2	1.19	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z4:151:THR:CB	4:2K:126:ILE:C	2.15	1.18
1:B5:358:PRO:HD3	4:2A:73:GLY:CA	1.72	1.18
8:5U:44:LEU:CD2	8:5Z:7:LYS:O	1.90	1.18
1:A5:168:PRO:HG3	4:2L:120:GLY:O	1.44	1.17
8:5S:50:TRP:CZ2	8:5W:84:PHE:CD1	2.31	1.17
8:5W:53:LEU:HB2	8:5V:129:ALA:HA	1.25	1.17
1:A5:168:PRO:HA	4:2L:121:ALA:CB	1.74	1.17
1:B5:358:PRO:CD	4:2A:73:GLY:CA	2.21	1.17
1:AP:216:VAL:HG11	4:2I:127:PRO:HG3	1.19	1.17
8:5U:44:LEU:CD1	8:5Z:7:LYS:O	1.93	1.17
8:5S:50:TRP:HZ2	8:5W:84:PHE:CD1	1.61	1.16
8:5P:42:THR:HG23	8:5T:116:HIS:CE1	1.78	1.16
1:BP:347:LEU:HD23	5:1L:162:GLY:HA3	1.23	1.16
8:5Q:44:LEU:HD21	8:5V:7:LYS:O	1.44	1.16
8:5V:42:THR:CG2	8:5Z:116:HIS:CE1	2.11	1.16
1:BA:192:THR:CG2	5:1E:41:TRP:HD1	1.34	1.15
8:5V:44:LEU:HG	8:50:7:LYS:CA	1.77	1.15
8:5W:51:ARG:NH1	8:5V:61:SER:OG	1.79	1.15
8:5V:44:LEU:CG	8:50:7:LYS:CA	2.24	1.15
8:5S:84:PHE:CD1	8:5U:50:TRP:HZ2	1.65	1.14
8:5T:54:LEU:HD12	8:5Z:3:ALA:HB1	1.28	1.14
8:5S:84:PHE:CD1	8:5U:50:TRP:CZ2	2.36	1.14
8:5W:44:LEU:HB2	8:50:116:HIS:HA	1.17	1.14
8:5W:41:VAL:HA	8:51:28:ARG:HH12	1.07	1.13
8:5S:116:HIS:CE1	8:5O:42:THR:HG23	1.82	1.13
8:5M:42:THR:CG2	8:5W:116:HIS:CE1	2.31	1.13
8:5V:44:LEU:HG	8:50:7:LYS:HA	1.13	1.12
1:AF:125:SER:HB2	5:1G:38:ARG:HH22	1.12	1.12
1:A4:252:VAL:HG11	2:A6:3:VAL:CG1	1.80	1.11
8:5W:44:LEU:CB	8:50:116:HIS:HA	1.79	1.11
1:AP:351:ARG:NH2	5:1J:163:ARG:HH22	1.50	1.10
2:AB:3:VAL:CG1	1:A9:252:VAL:HG11	1.80	1.10
1:AA:130:GLU:CD	5:1D:44:ARG:CG	2.08	1.10
8:5W:41:VAL:HG13	8:51:28:ARG:HH11	1.15	1.10
8:5U:44:LEU:CG	8:5Z:7:LYS:O	1.99	1.10
2:AL:3:VAL:CG1	1:AJ:252:VAL:HG11	1.80	1.09
8:5X:53:LEU:HB2	8:5W:129:ALA:HA	1.34	1.09
8:5U:44:LEU:O	8:5Z:7:LYS:NZ	1.86	1.09
2:A1:3:VAL:CG1	1:AO:252:VAL:HG11	1.82	1.09
1:BA:192:THR:HG21	5:1E:41:TRP:CD1	1.87	1.09
1:AP:126:VAL:HG21	5:1K:162:GLY:HA3	1.33	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:351:ARG:CB	5:1J:44:ARG:NH2	2.05	1.07
2:AG:3:VAL:CG1	1:AE:252:VAL:HG11	1.81	1.07
8:5W:44:LEU:HD21	8:51:7:LYS:C	1.78	1.07
8:5V:44:LEU:O	8:50:7:LYS:NZ	1.85	1.07
1:B5:359:HIS:CB	4:2A:121:ALA:HB2	1.65	1.07
8:5W:41:VAL:HG13	8:51:28:ARG:NH1	1.67	1.07
1:AP:130:GLU:OE2	5:1K:47:VAL:CG1	2.02	1.07
1:AP:216:VAL:CG1	4:2I:127:PRO:HG3	1.83	1.07
8:5M:44:LEU:HD21	8:5X:7:LYS:O	1.53	1.07
1:BK:348:ARG:NH2	5:1J:162:GLY:O	1.88	1.06
8:5W:50:TRP:CH2	8:5U:84:PHE:CE1	2.43	1.06
8:5W:44:LEU:HD11	8:51:6:GLY:O	1.54	1.06
1:A5:125:SER:HA	5:1B:38:ARG:NH1	1.70	1.06
8:5X:51:ARG:NH1	8:5W:61:SER:OG	1.88	1.06
8:5R:42:THR:CG2	8:5V:116:HIS:CE1	2.38	1.06
8:5R:134:PHE:HB2	8:5Q:84:PHE:HE2	1.21	1.06
8:5V:50:TRP:CH2	8:5T:84:PHE:CE1	2.43	1.06
8:5V:53:LEU:HB2	8:5U:129:ALA:HA	1.33	1.06
8:5Q:134:PHE:HB2	8:5P:84:PHE:HE2	1.20	1.05
1:B5:358:PRO:HG3	4:2A:73:GLY:CA	1.84	1.05
1:AK:128:ASN:ND2	5:1I:41:TRP:H	1.54	1.05
8:5Q:44:LEU:CD1	8:5V:7:LYS:HA	1.86	1.05
8:5V:51:ARG:NH1	8:5U:61:SER:OG	1.89	1.05
8:5P:44:LEU:HD21	8:5U:7:LYS:O	1.57	1.05
8:5W:41:VAL:HG22	8:51:119:GLU:OE2	1.57	1.04
8:5X:44:LEU:CA	8:51:116:HIS:HB2	1.87	1.03
8:5X:84:PHE:CD1	8:5T:50:TRP:CZ2	2.46	1.03
8:5U:53:LEU:HB2	8:5T:129:ALA:HA	1.38	1.03
1:A5:216:VAL:HA	4:2L:119:LEU:CD1	1.87	1.03
8:5X:84:PHE:CD1	8:5T:50:TRP:HZ2	1.75	1.03
8:5W:50:TRP:CZ2	8:5U:84:PHE:CE1	2.46	1.03
8:5W:42:THR:HG23	8:50:116:HIS:CE1	1.92	1.03
8:5W:42:THR:O	8:50:116:HIS:CE1	2.11	1.03
6:4C:58:LYS:HZ2	8:5B:27:LEU:HD12	1.23	1.03
8:5M:134:PHE:HB2	8:5R:84:PHE:HE2	1.24	1.03
8:5U:44:LEU:CD1	8:5Z:7:LYS:C	2.32	1.02
1:A5:168:PRO:HG3	4:2L:120:GLY:C	1.83	1.02
6:4A:58:LYS:HZ2	8:5F:27:LEU:HD12	1.18	1.02
8:5Q:44:LEU:HD11	8:5V:7:LYS:HA	1.36	1.02
8:5V:43:SER:C	8:5Z:116:HIS:HB2	1.85	1.02
1:A5:125:SER:HA	5:1B:38:ARG:HH11	1.22	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5V:50:TRP:CZ2	8:5T:84:PHE:CE1	2.47	1.01
1:AP:126:VAL:CG2	5:1K:162:GLY:CA	2.29	1.01
8:5W:33:SER:HA	8:5V:111:ASP:HB3	1.37	1.01
8:5W:44:LEU:HG	8:51:7:LYS:HA	1.38	1.01
1:A5:216:VAL:HA	4:2L:119:LEU:HD13	1.04	1.01
1:AP:126:VAL:HG22	5:1K:162:GLY:N	1.73	1.01
6:4E:58:LYS:HZ2	8:5D:27:LEU:HD12	1.26	1.01
1:BP:347:LEU:CD2	5:1L:162:GLY:HA3	1.90	1.00
8:5W:42:THR:O	8:50:116:HIS:ND1	1.93	1.00
1:AP:346:ASP:CB	5:1K:41:TRP:CD1	2.45	1.00
8:5V:44:LEU:CD1	8:50:7:LYS:CA	2.37	1.00
8:5U:44:LEU:HD22	8:5Z:10:LEU:HD21	1.41	1.00
8:5X:116:HIS:CE1	8:5N:42:THR:CG2	2.45	1.00
8:5W:97:ASP:HB3	8:5V:72:ASP:HB2	1.40	1.00
8:5U:51:ARG:NH1	8:5T:61:SER:OG	1.95	0.99
8:5V:44:LEU:HD11	8:50:7:LYS:CA	1.92	0.99
1:AF:125:SER:CB	5:1G:38:ARG:HH22	1.75	0.99
8:5X:50:TRP:CH2	8:5V:84:PHE:CE1	2.51	0.99
8:5P:44:LEU:HD11	8:5U:7:LYS:HA	1.39	0.99
1:AP:126:VAL:HG21	5:1K:162:GLY:N	1.53	0.99
1:AK:128:ASN:HB3	5:1I:41:TRP:CD1	1.96	0.99
8:5C:31:ARG:NH1	8:5B:111:ASP:OD2	1.94	0.99
8:5O:44:LEU:HD11	8:5T:7:LYS:HA	1.44	0.99
1:BP:347:LEU:HD23	5:1L:162:GLY:CA	1.92	0.98
8:5X:44:LEU:HA	8:51:116:HIS:HB2	1.42	0.98
4:2B:5:GLU:CD	4:2B:61:ARG:HE	1.71	0.98
4:2D:5:GLU:CD	4:2D:61:ARG:HE	1.71	0.98
1:AP:170:HIS:ND1	4:2I:125:MET:CE	2.26	0.98
8:5X:97:ASP:HB3	8:5W:72:ASP:HB2	1.42	0.98
1:AA:170:HIS:HE1	4:2B:125:MET:HG2	1.27	0.98
8:5A:111:ASP:OD2	8:5B:31:ARG:NH1	1.97	0.98
4:2J:5:GLU:CD	4:2J:61:ARG:HE	1.71	0.98
8:5D:31:ARG:NH1	8:5C:111:ASP:OD2	1.97	0.98
8:5A:27:LEU:HD12	6:4B:58:LYS:HZ2	1.29	0.98
4:2L:5:GLU:CD	4:2L:61:ARG:HE	1.71	0.98
1:B5:358:PRO:CG	4:2A:73:GLY:CA	2.37	0.98
8:5S:7:LYS:O	8:5N:44:LEU:HD21	1.64	0.98
1:BA:347:LEU:O	5:1E:162:GLY:CA	2.12	0.97
4:2F:5:GLU:CD	4:2F:61:ARG:HE	1.71	0.97
8:5O:44:LEU:HD21	8:5T:7:LYS:O	1.65	0.97
8:5R:44:LEU:CD1	8:5W:7:LYS:HA	1.95	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4D:58:LYS:HZ2	8:5C:27:LEU:HD12	1.30	0.97
1:BA:192:THR:HG21	5:1E:41:TRP:HD1	1.22	0.97
4:2H:5:GLU:CD	4:2H:61:ARG:HE	1.71	0.97
1:K9:305:GLU:HB2	1:K9:306:PRO:HD3	1.47	0.96
1:A5:168:PRO:HA	4:2L:121:ALA:HB3	1.45	0.96
1:KE:305:GLU:HB2	1:KE:306:PRO:HD3	1.47	0.96
8:5W:44:LEU:HB2	8:50:116:HIS:CA	1.95	0.96
1:BK:351:ARG:NH2	5:1J:41:TRP:CG	1.81	0.96
8:5P:44:LEU:CD1	8:5U:7:LYS:HA	1.95	0.96
1:BK:179:SER:HB3	4:2H:121:ALA:HB3	1.46	0.96
8:5W:44:LEU:CA	8:50:116:HIS:HB2	1.96	0.96
1:BK:179:SER:HB3	4:2H:121:ALA:CB	1.93	0.96
8:5U:42:THR:HG23	8:5Y:116:HIS:CE1	2.00	0.96
1:B5:186:SER:OG	5:1B:51:ARG:NH2	1.98	0.96
8:5Q:42:THR:CG2	8:5U:116:HIS:CE1	2.49	0.96
8:5S:84:PHE:CE1	8:5U:50:TRP:CH2	2.53	0.95
1:BK:351:ARG:CA	5:1J:44:ARG:HH22	1.79	0.95
8:5W:44:LEU:HD12	8:50:115:SER:O	1.64	0.95
1:AP:164:ARG:HB3	4:2J:121:ALA:HB2	1.46	0.95
1:AP:126:VAL:HG23	5:1K:161:GLY:O	1.66	0.95
1:KJ:305:GLU:HB2	1:KJ:306:PRO:HD3	1.47	0.95
6:4F:58:LYS:HZ2	8:5E:27:LEU:HD12	1.27	0.95
1:BA:192:THR:HG23	5:1E:41:TRP:CG	2.01	0.95
8:5S:51:ARG:NH1	8:5X:61:SER:OG	1.99	0.95
8:5X:33:SER:HA	8:5W:111:ASP:HB3	1.47	0.95
1:BF:177:LYS:NZ	4:2E:128:THR:HG21	1.82	0.95
1:AF:162:ILE:O	4:2E:125:MET:CE	2.13	0.94
8:5U:54:LEU:CD1	8:50:3:ALA:HB1	1.97	0.94
1:AP:130:GLU:OE2	5:1K:47:VAL:HG13	1.64	0.94
8:5V:44:LEU:HD21	8:50:7:LYS:O	0.77	0.94
1:K4:305:GLU:HB2	1:K4:306:PRO:HD3	1.47	0.94
8:5W:34:PHE:HD2	8:5V:110:ILE:HG13	1.32	0.94
8:5V:33:SER:HA	8:5U:111:ASP:HB3	1.48	0.94
1:A5:134:PHE:HZ	5:1B:44:ARG:NH1	1.66	0.94
8:5S:53:LEU:HB2	8:5X:129:ALA:HA	1.46	0.94
8:5S:129:ALA:HA	8:5T:53:LEU:HB2	1.49	0.94
8:5R:44:LEU:HD11	8:5W:7:LYS:HA	1.47	0.94
8:5W:34:PHE:N	8:5V:110:ILE:O	2.01	0.94
8:5W:36:ALA:N	8:5V:108:THR:O	2.01	0.94
8:5V:44:LEU:HD11	8:50:7:LYS:C	1.93	0.94
11:6B:69:ARG:HH12	11:6C:163:GLU:HG2	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:192:THR:HG22	5:1G:161:GLY:O	1.66	0.94
1:KO:305:GLU:HB2	1:KO:306:PRO:HD3	1.47	0.93
5:1E:217:ASN:OD1	4:2D:196:ARG:NH2	2.00	0.93
1:BA:192:THR:HG23	5:1E:41:TRP:NE1	1.82	0.93
1:A5:168:PRO:HA	4:2L:121:ALA:HB2	1.45	0.93
5:1G:217:ASN:OD1	4:2F:196:ARG:NH2	2.02	0.93
1:AK:128:ASN:HD22	5:1I:41:TRP:H	0.93	0.93
8:5M:84:PHE:HE2	8:5N:134:PHE:HB2	1.34	0.93
8:5W:57:ALA:O	8:5I:117:ASN:O	1.87	0.93
8:5P:134:PHE:HB2	8:5O:84:PHE:HE2	1.32	0.93
8:5V:44:LEU:HD11	8:50:7:LYS:HA	1.49	0.92
1:BF:186:SER:O	5:1G:44:ARG:NH2	2.02	0.92
8:5W:44:LEU:N	8:50:116:HIS:CB	2.31	0.92
1:BP:349:VAL:HG11	5:1L:161:GLY:HA2	1.49	0.92
8:5X:50:TRP:CZ2	8:5V:84:PHE:CE1	2.58	0.92
1:B5:358:PRO:CG	4:2A:73:GLY:C	2.42	0.92
7:3F:52:VAL:HG13	7:3F:111:VAL:HG23	1.52	0.92
2:A1:3:VAL:HG13	1:AO:252:VAL:HG11	1.51	0.91
8:5X:34:PHE:HD2	8:5W:110:ILE:HG13	1.32	0.91
1:A4:252:VAL:HG11	2:A6:3:VAL:HG13	1.50	0.91
7:3A:52:VAL:HG13	7:3A:111:VAL:HG23	1.52	0.91
2:AL:3:VAL:HG13	1:AJ:252:VAL:HG11	1.50	0.91
8:5S:61:SER:OG	8:5T:51:ARG:NH1	2.04	0.91
8:5Q:44:LEU:CG	8:5V:7:LYS:HA	2.00	0.91
11:6E:163:GLU:HG2	11:6D:69:ARG:HH12	1.32	0.91
8:5W:50:TRP:CZ2	8:5U:84:PHE:HD1	1.86	0.91
1:AP:346:ASP:HA	5:1K:41:TRP:NE1	1.85	0.91
2:AB:3:VAL:HG13	1:A9:252:VAL:HG11	1.49	0.91
1:A5:216:VAL:CB	4:2L:119:LEU:HD13	2.01	0.91
2:AG:3:VAL:HG13	1:AE:252:VAL:HG11	1.51	0.90
8:5S:50:TRP:CH2	8:5W:84:PHE:CE1	2.59	0.90
4:2K:91:LEU:HD13	4:2K:132:VAL:HG23	1.54	0.90
8:5W:50:TRP:CH2	8:5U:84:PHE:CD1	2.58	0.90
8:5F:31:ARG:NH1	8:5E:111:ASP:OD2	2.04	0.90
8:5X:34:PHE:N	8:5W:110:ILE:O	2.04	0.90
1:AP:346:ASP:HB3	5:1K:41:TRP:CD1	2.06	0.90
11:6A:163:GLU:HG2	11:6F:69:ARG:HH12	1.33	0.90
8:5X:50:TRP:CH2	8:5V:84:PHE:CD1	2.60	0.90
1:B5:358:PRO:HD3	4:2A:73:GLY:HA3	0.91	0.89
4:2I:91:LEU:HD13	4:2I:132:VAL:HG23	1.54	0.89
1:ZO:152:ALA:CB	4:2I:103:ALA:HB3	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5A:27:LEU:HD12	6:4B:58:LYS:NZ	1.88	0.89
8:5W:42:THR:HG23	8:50:116:HIS:HE1	1.32	0.89
8:5S:116:HIS:CE1	8:5O:42:THR:CG2	2.55	0.89
7:3B:52:VAL:HG13	7:3B:111:VAL:HG23	1.52	0.89
7:3E:52:VAL:HG13	7:3E:111:VAL:HG23	1.52	0.89
8:5V:36:ALA:N	8:5U:108:THR:O	2.06	0.89
2:AL:3:VAL:HG11	1:AJ:252:VAL:HG11	1.53	0.89
8:5R:42:THR:CG2	8:5V:116:HIS:HE1	1.86	0.89
4:2A:91:LEU:HD13	4:2A:132:VAL:HG23	1.54	0.89
7:3C:52:VAL:HG13	7:3C:111:VAL:HG23	1.52	0.89
1:AK:128:ASN:HD22	5:1I:41:TRP:N	1.71	0.89
1:BK:351:ARG:HH22	5:1J:41:TRP:CB	1.86	0.89
8:5O:44:LEU:CD1	8:5T:7:LYS:HA	2.02	0.89
8:5E:31:ARG:NH1	8:5D:111:ASP:OD2	2.06	0.89
8:5U:36:ALA:N	8:5T:108:THR:O	2.05	0.89
1:AP:345:PRO:O	5:1K:41:TRP:CE2	2.26	0.88
1:BF:196:ASN:CB	5:1G:162:GLY:HA3	2.03	0.88
2:AB:3:VAL:HG11	1:A9:252:VAL:HG11	1.53	0.88
8:5M:42:THR:CG2	8:5W:116:HIS:HE1	1.85	0.88
7:3D:52:VAL:HG13	7:3D:111:VAL:HG23	1.52	0.88
2:A1:3:VAL:HG11	1:AO:252:VAL:HG11	1.54	0.88
1:BA:189:ASP:OD1	5:1E:44:ARG:HG3	1.73	0.88
8:5P:42:THR:CG2	8:5T:116:HIS:CE1	2.56	0.88
8:5U:33:SER:HA	8:5T:111:ASP:HB3	1.55	0.88
1:A5:216:VAL:CA	4:2L:119:LEU:CD1	2.50	0.88
1:A4:252:VAL:HG11	2:A6:3:VAL:HG11	1.52	0.88
8:5X:36:ALA:N	8:5W:108:THR:O	2.06	0.88
1:AK:128:ASN:HB3	5:1I:41:TRP:HB2	1.54	0.88
8:5X:50:TRP:CZ2	8:5V:84:PHE:HD1	1.92	0.88
8:5E:44:LEU:HD21	8:5J:7:LYS:HA	1.53	0.88
8:5T:54:LEU:CD1	8:5Z:3:ALA:HB1	2.03	0.88
8:5V:44:LEU:N	8:5Z:116:HIS:HB2	1.88	0.88
8:5V:97:ASP:HB3	8:5U:72:ASP:HB2	1.53	0.88
8:5A:31:ARG:NH1	8:5F:111:ASP:OD2	2.06	0.87
8:5M:44:LEU:HD11	8:5X:7:LYS:HA	1.56	0.87
8:5K:44:LEU:HD11	8:5P:7:LYS:HA	1.56	0.87
8:5V:44:LEU:HG	8:50:7:LYS:CB	2.04	0.87
8:5W:43:SER:C	8:50:116:HIS:HB2	1.98	0.87
8:5W:44:LEU:CD2	8:51:7:LYS:HA	2.03	0.87
8:5W:44:LEU:HA	8:50:116:HIS:O	1.75	0.87
8:5W:51:ARG:NH2	8:5V:61:SER:HB2	1.88	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2E:91:LEU:HD13	4:2E:132:VAL:HG23	1.54	0.87
8:5C:50:TRP:CD1	8:5B:132:LEU:H	1.92	0.87
1:B5:359:HIS:N	4:2A:121:ALA:HB1	1.88	0.87
8:5V:44:LEU:O	8:50:7:LYS:CE	2.22	0.87
2:AG:3:VAL:HG11	1:AE:252:VAL:HG11	1.54	0.87
1:Z4:151:THR:CB	4:2K:126:ILE:O	2.23	0.87
1:AA:345:PRO:O	5:1D:41:TRP:CD1	2.28	0.87
1:AK:191:GLU:OE2	5:1H:164:LYS:HD3	1.73	0.86
8:5W:34:PHE:CD2	8:5V:110:ILE:HG13	2.09	0.86
8:5R:134:PHE:HB2	8:5Q:84:PHE:CE2	2.08	0.86
8:5W:44:LEU:HD21	8:51:7:LYS:CA	2.04	0.86
8:5W:44:LEU:CD2	8:51:7:LYS:O	2.21	0.86
8:5V:34:PHE:N	8:5U:110:ILE:O	2.08	0.86
4:2C:91:LEU:HD13	4:2C:132:VAL:HG23	1.54	0.86
1:BA:192:THR:CG2	5:1E:41:TRP:CG	2.59	0.86
8:5X:44:LEU:HD12	8:51:116:HIS:HA	1.57	0.86
8:5S:84:PHE:CE1	8:5U:50:TRP:CZ2	2.63	0.86
8:5W:34:PHE:O	8:5V:109:SER:HB2	1.76	0.86
8:5U:34:PHE:N	8:5T:110:ILE:O	2.09	0.86
8:5Q:134:PHE:HB2	8:5P:84:PHE:CE2	2.10	0.85
1:B5:359:HIS:CB	4:2A:121:ALA:CB	0.86	0.85
1:AK:132:THR:OG1	4:2G:121:ALA:HB3	1.75	0.85
1:AA:170:HIS:CE1	4:2B:125:MET:HG2	2.10	0.85
8:5S:33:SER:HA	8:5X:111:ASP:HB3	1.56	0.85
4:2G:91:LEU:HD13	4:2G:132:VAL:HG23	1.54	0.85
8:5O:134:PHE:HB2	8:5N:84:PHE:HE2	1.39	0.85
8:5S:7:LYS:HA	8:5N:44:LEU:HD11	1.58	0.85
8:5W:53:LEU:HB2	8:5V:129:ALA:CA	2.06	0.85
4:2A:89:LEU:O	4:2A:89:LEU:HD23	1.77	0.85
8:5R:44:LEU:CG	8:5W:7:LYS:HA	2.07	0.85
4:2G:89:LEU:HD23	4:2G:89:LEU:O	1.77	0.85
8:5V:50:TRP:HH2	8:5T:84:PHE:CE1	1.93	0.85
4:2E:89:LEU:HD23	4:2E:89:LEU:O	1.77	0.85
6:4A:58:LYS:NZ	8:5F:27:LEU:HD12	1.90	0.84
7:3B:52:VAL:CG1	7:3B:111:VAL:HG23	2.07	0.84
7:3A:52:VAL:CG1	7:3A:111:VAL:HG23	2.07	0.84
1:CP:175:MET:HE2	1:BP:155:SER:HA	1.60	0.84
8:5M:42:THR:O	8:5W:116:HIS:CG	2.31	0.84
5:1I:217:ASN:OD1	4:2H:196:ARG:NH2	2.09	0.84
8:5V:44:LEU:HB2	8:5Z:116:HIS:HA	1.56	0.84
4:2C:89:LEU:O	4:2C:89:LEU:HD23	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L4:252:VAL:HG11	2:B2:3:VAL:HG13	1.60	0.84
1:AK:128:ASN:HB2	5:1I:41:TRP:HD1	0.68	0.84
8:5M:134:PHE:HB2	8:5R:84:PHE:CE2	2.12	0.84
4:2K:89:LEU:O	4:2K:89:LEU:HD23	1.77	0.84
8:5R:42:THR:O	8:5V:116:HIS:CG	2.30	0.84
1:LO:252:VAL:HG11	2:BM:3:VAL:HG13	1.59	0.84
8:5M:41:VAL:HA	8:5X:28:ARG:HH12	1.42	0.84
4:2B:196:ARG:NH2	5:1C:217:ASN:OD1	2.09	0.84
8:5Q:42:THR:HG23	8:5U:116:HIS:HE1	1.43	0.84
1:BF:177:LYS:HB2	1:BF:359:HIS:HB3	1.59	0.84
1:CA:175:MET:HE2	1:BA:155:SER:HA	1.60	0.84
8:5S:97:ASP:HB3	8:5X:72:ASP:HB2	1.58	0.84
1:C5:175:MET:HE2	1:B5:155:SER:HA	1.60	0.84
4:2I:89:LEU:O	4:2I:89:LEU:HD23	1.77	0.84
1:CK:175:MET:HE2	1:BK:155:SER:HA	1.60	0.83
8:5X:34:PHE:CD2	8:5W:110:ILE:HG13	2.13	0.83
8:5V:41:VAL:HA	8:50:28:ARG:HH12	1.43	0.83
1:AF:166:THR:HG21	4:2E:121:ALA:H	1.43	0.83
1:BF:357:LYS:HE2	1:BF:357:LYS:HA	1.61	0.83
1:BA:357:LYS:HA	1:BA:357:LYS:HE2	1.60	0.83
7:3E:52:VAL:CG1	7:3E:111:VAL:HG23	2.07	0.83
8:52:49:GLY:HA2	11:6D:195:PHE:CZ	2.13	0.83
8:5M:44:LEU:CD1	8:5X:7:LYS:HA	2.07	0.83
8:5V:50:TRP:CH2	8:5T:84:PHE:CD1	2.63	0.83
8:5S:84:PHE:CE1	8:5U:50:TRP:HH2	1.95	0.83
8:5X:84:PHE:CE1	8:5T:50:TRP:CH2	2.66	0.83
8:5W:33:SER:HA	8:5V:111:ASP:CB	2.09	0.83
8:5D:50:TRP:CD1	8:5C:132:LEU:H	1.95	0.83
1:B5:357:LYS:HE2	1:B5:357:LYS:HA	1.60	0.83
1:CF:175:MET:HE2	1:BF:155:SER:HA	1.60	0.83
8:5X:51:ARG:NH2	8:5W:61:SER:HB2	1.92	0.83
7:3C:52:VAL:CG1	7:3C:111:VAL:HG23	2.07	0.83
1:LJ:252:VAL:HG11	2:BH:3:VAL:HG13	1.59	0.83
8:5S:50:TRP:CH2	8:5W:84:PHE:CD1	2.66	0.83
8:5F:44:LEU:HD21	8:5K:7:LYS:HA	1.58	0.83
8:5V:34:PHE:HD2	8:5U:110:ILE:HG13	1.43	0.83
8:5C:53:LEU:HD23	8:5B:129:ALA:HA	1.59	0.83
1:N4:182:LEU:HB2	1:F4:92:SER:HB2	1.61	0.83
7:3D:52:VAL:CG1	7:3D:111:VAL:HG23	2.07	0.83
1:N9:182:LEU:HB2	1:F9:92:SER:HB2	1.61	0.83
7:3F:52:VAL:CG1	7:3F:111:VAL:HG23	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:3B:53:THR:HG23	7:3B:53:THR:O	1.79	0.83
8:5D:60:ARG:NH2	8:5C:83:PHE:O	2.11	0.82
1:A5:216:VAL:CB	4:2L:119:LEU:HD22	2.08	0.82
1:AP:126:VAL:HG23	5:1K:161:GLY:CA	2.10	0.82
1:BP:177:LYS:HB2	1:BP:359:HIS:HB3	1.59	0.82
1:EE:150:GLU:HG3	1:GE:91:ASN:HB2	1.61	0.82
1:L9:252:VAL:HG11	2:B7:3:VAL:HG13	1.60	0.82
8:5W:41:VAL:HA	8:51:28:ARG:NH1	1.93	0.82
8:5R:41:VAL:HA	8:5W:28:ARG:HH12	1.44	0.82
8:5U:44:LEU:CD1	8:5Z:7:LYS:HA	2.10	0.82
8:5Z:72:ASP:HB2	8:50:97:ASP:HB3	1.61	0.82
1:LE:252:VAL:HG11	2:BC:3:VAL:HG13	1.60	0.82
1:E9:150:GLU:HG3	1:G9:91:ASN:HB2	1.61	0.82
7:3D:53:THR:O	7:3D:53:THR:HG23	1.79	0.82
1:G9:149:SER:HB3	1:G9:152:ALA:HB2	1.62	0.82
1:BP:357:LYS:HE2	1:BP:357:LYS:HA	1.60	0.82
1:QO:174:ALA:HA	1:PO:157:THR:HG21	1.62	0.82
1:BK:357:LYS:HE2	1:BK:357:LYS:HA	1.60	0.82
11:6B:195:PHE:CZ	8:50:49:GLY:HA2	2.14	0.82
10:8C:219:LEU:HD11	10:8C:222:VAL:HB	1.62	0.82
10:8B:219:LEU:HD11	10:8B:222:VAL:HB	1.62	0.82
1:MJ:348:ARG:O	1:MJ:364:ALA:HA	1.80	0.81
1:AF:125:SER:HB2	5:1G:38:ARG:NH2	1.92	0.81
8:5R:50:TRP:CE3	8:5Q:60:ARG:HG3	2.15	0.81
7:3C:53:THR:HG23	7:3C:53:THR:O	1.79	0.81
1:A5:124:ALA:O	5:1B:38:ARG:NH1	2.13	0.81
1:G4:149:SER:HB3	1:G4:152:ALA:HB2	1.62	0.81
1:ZJ:251:ALA:O	1:ZJ:252:VAL:HG22	1.81	0.81
1:AK:132:THR:OG1	4:2G:121:ALA:CB	2.27	0.81
1:QJ:174:ALA:HA	1:PJ:157:THR:HG21	1.62	0.81
1:EJ:150:GLU:HG3	1:GJ:91:ASN:HB2	1.61	0.81
8:5S:34:PHE:HD2	8:5X:110:ILE:HG13	1.44	0.81
8:5S:111:ASP:HB3	8:5T:33:SER:HA	1.62	0.81
7:3F:53:THR:HG23	7:3F:53:THR:O	1.79	0.81
6:4C:58:LYS:NZ	8:5B:27:LEU:HD12	1.94	0.81
8:5C:60:ARG:NH2	8:5B:83:PHE:O	2.13	0.81
8:5B:95:ILE:HB	8:5B:98:PHE:HB2	1.62	0.81
1:EO:150:GLU:HG3	1:GO:91:ASN:HB2	1.61	0.81
1:M9:348:ARG:O	1:M9:364:ALA:HA	1.80	0.81
8:5J:44:LEU:HD11	8:5O:7:LYS:HA	1.63	0.81
1:A5:126:VAL:H	5:1B:38:ARG:NH1	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NE:182:LEU:HB2	1:FE:92:SER:HB2	1.61	0.81
1:ME:348:ARG:O	1:ME:364:ALA:HA	1.80	0.81
1:GE:149:SER:HB3	1:GE:152:ALA:HB2	1.62	0.81
8:5W:44:LEU:CD1	8:51:7:LYS:HA	2.11	0.81
8:5C:95:ILE:HB	8:5C:98:PHE:HB2	1.62	0.81
1:NO:182:LEU:HB2	1:FO:92:SER:HB2	1.61	0.81
1:Z9:251:ALA:O	1:Z9:252:VAL:HG22	1.81	0.81
8:5U:54:LEU:HG	8:50:3:ALA:CB	2.11	0.81
1:AP:345:PRO:O	5:1K:41:TRP:CZ2	2.34	0.81
1:QE:174:ALA:HA	1:PE:157:THR:HG21	1.62	0.81
1:Q4:174:ALA:HA	1:P4:157:THR:HG21	1.62	0.81
1:GO:149:SER:HB3	1:GO:152:ALA:HB2	1.62	0.81
10:8A:219:LEU:HD11	10:8A:222:VAL:HB	1.62	0.81
1:MO:348:ARG:O	1:MO:364:ALA:HA	1.80	0.81
7:3A:53:THR:O	7:3A:53:THR:HG23	1.79	0.81
8:5Q:50:TRP:CE3	8:5P:60:ARG:HG3	2.15	0.81
1:ZE:251:ALA:O	1:ZE:252:VAL:HG22	1.81	0.80
8:5V:57:ALA:O	8:50:117:ASN:O	2.00	0.80
1:GJ:149:SER:HB3	1:GJ:152:ALA:HB2	1.62	0.80
1:Q9:174:ALA:HA	1:P9:157:THR:HG21	1.62	0.80
1:Z4:251:ALA:O	1:Z4:252:VAL:HG22	1.81	0.80
1:AK:349:VAL:CG1	5:1H:162:GLY:N	2.43	0.80
8:5X:53:LEU:HB2	8:5W:129:ALA:CA	2.10	0.80
8:5Q:44:LEU:HD11	8:5V:7:LYS:CA	2.10	0.80
8:5F:95:ILE:HB	8:5F:98:PHE:HB2	1.62	0.80
6:4E:47:LEU:HD12	6:4E:47:LEU:O	1.81	0.80
8:5E:95:ILE:HB	8:5E:98:PHE:HB2	1.62	0.80
8:5Q:44:LEU:N	8:5U:116:HIS:HB2	1.96	0.80
8:5D:95:ILE:HB	8:5D:98:PHE:HB2	1.62	0.80
8:5W:50:TRP:HH2	8:5U:84:PHE:CE1	1.97	0.80
8:5Y:49:GLY:HA2	11:6F:195:PHE:CZ	2.16	0.80
1:E4:150:GLU:HG3	1:G4:91:ASN:HB2	1.61	0.80
1:A5:134:PHE:CZ	5:1B:44:ARG:NH1	2.50	0.80
8:5A:132:LEU:H	8:5B:50:TRP:CD1	2.00	0.80
7:3E:53:THR:HG23	7:3E:53:THR:O	1.79	0.80
6:4D:58:LYS:NZ	8:5C:27:LEU:HD12	1.95	0.80
6:4C:47:LEU:HD12	6:4C:47:LEU:O	1.81	0.80
8:5U:51:ARG:NH2	8:5T:61:SER:HB2	1.96	0.80
8:5U:97:ASP:HB3	8:5T:72:ASP:HB2	1.62	0.80
1:ZO:251:ALA:O	1:ZO:252:VAL:HG22	1.81	0.80
1:AP:177:LYS:HG3	1:AP:361:LEU:HD13	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5D:44:LEU:HD21	8:5I:7:LYS:HA	1.63	0.80
1:M4:348:ARG:O	1:M4:364:ALA:HA	1.80	0.80
1:AP:126:VAL:CG2	5:1K:161:GLY:O	2.28	0.80
6:4D:47:LEU:HD12	6:4D:47:LEU:O	1.81	0.80
9:7B:178:ASP:HB3	9:7B:182:VAL:HG23	1.63	0.80
1:NJ:182:LEU:HB2	1:FJ:92:SER:HB2	1.61	0.80
8:5L:44:LEU:HD11	8:5Q:7:LYS:HA	1.64	0.79
8:5D:53:LEU:HD23	8:5C:129:ALA:HA	1.63	0.79
8:5U:34:PHE:HD2	8:5T:110:ILE:HG13	1.47	0.79
9:7C:65:LEU:HD13	10:8C:803:ARG:HB2	1.63	0.79
1:I4:171:GLU:HG2	1:MO:181:ARG:HH21	1.48	0.79
8:5V:51:ARG:NH2	8:5U:61:SER:HB2	1.97	0.79
8:5U:53:LEU:HB2	8:5T:129:ALA:CA	2.11	0.79
1:AF:177:LYS:HG3	1:AF:361:LEU:HD13	1.64	0.79
1:IE:171:GLU:HG2	1:M9:181:ARG:HH21	1.47	0.79
6:4A:47:LEU:HD12	6:4A:47:LEU:O	1.81	0.79
8:5S:36:ALA:N	8:5X:108:THR:O	2.15	0.79
8:5A:95:ILE:HB	8:5A:98:PHE:HB2	1.62	0.79
1:AK:128:ASN:HB3	5:1I:41:TRP:CG	2.17	0.79
8:5V:53:LEU:HB2	8:5U:129:ALA:CA	2.12	0.79
1:M4:181:ARG:HH21	1:I9:171:GLU:HG2	1.48	0.79
1:AP:344:ARG:NH2	5:1K:44:ARG:HD2	1.97	0.79
8:5X:34:PHE:O	8:5W:109:SER:HB2	1.83	0.79
6:4B:47:LEU:HD12	6:4B:47:LEU:O	1.81	0.79
1:B5:359:HIS:CB	4:2A:121:ALA:HB3	0.85	0.79
1:IO:171:GLU:HG2	1:MJ:181:ARG:HH21	1.47	0.79
8:5S:7:LYS:HA	8:5N:44:LEU:CD1	2.13	0.79
6:4F:47:LEU:HD12	6:4F:47:LEU:O	1.81	0.79
6:4E:58:LYS:NZ	8:5D:27:LEU:HD12	1.98	0.79
8:5U:41:VAL:HG13	8:5Z:69:VAL:HG11	1.63	0.79
1:B5:359:HIS:CB	4:2A:121:ALA:HB1	0.85	0.79
9:7B:65:LEU:HD13	10:8B:803:ARG:HB2	1.63	0.79
4:2L:71:ARG:O	4:2L:72:TRP:HD1	1.65	0.79
1:B5:357:LYS:N	1:B5:358:PRO:HD2	1.98	0.79
1:IJ:171:GLU:HG2	1:ME:181:ARG:HH21	1.47	0.79
8:5L:42:THR:HG23	8:5P:116:HIS:CE1	2.18	0.79
8:5R:44:LEU:N	8:5V:116:HIS:HB2	1.98	0.79
8:5W:41:VAL:CA	8:5I:28:ARG:HH12	1.91	0.78
8:52:97:ASP:HB3	8:5I:72:ASP:HB2	1.65	0.78
4:2J:71:ARG:O	4:2J:72:TRP:HD1	1.65	0.78
7:3D:85:ARG:HD2	7:3C:68:VAL:HG11	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:357:LYS:N	1:BK:358:PRO:HD2	1.98	0.78
8:5G:42:THR:HG23	8:5Q:116:HIS:CE1	2.19	0.78
6:4F:58:LYS:NZ	8:5E:27:LEU:HD12	1.97	0.78
4:2D:71:ARG:O	4:2D:72:TRP:HD1	1.65	0.78
1:AK:177:LYS:HG3	1:AK:361:LEU:HD13	1.64	0.78
8:5Q:42:THR:CG2	8:5U:116:HIS:HE1	1.94	0.78
4:2F:71:ARG:O	4:2F:72:TRP:HD1	1.65	0.78
9:7C:178:ASP:HB3	9:7C:182:VAL:HG23	1.63	0.78
1:A5:177:LYS:HG3	1:A5:361:LEU:HD13	1.64	0.78
1:L4:256:ASP:HA	1:L4:259:VAL:HG12	1.65	0.78
1:AP:289:LYS:HB2	1:AP:289:LYS:HZ2	1.49	0.78
8:5V:50:TRP:CZ2	8:5T:84:PHE:HD1	2.00	0.78
8:5B:27:LEU:O	8:5B:27:LEU:HD13	1.84	0.78
9:7A:178:ASP:HB3	9:7A:182:VAL:HG23	1.63	0.78
1:BA:357:LYS:N	1:BA:358:PRO:HD2	1.98	0.78
8:5X:50:TRP:HH2	8:5V:84:PHE:CE1	2.01	0.78
8:5R:43:SER:C	8:5V:116:HIS:HB2	2.08	0.78
1:AP:346:ASP:HB2	5:1K:41:TRP:CD1	2.17	0.78
8:5S:28:ARG:HH12	8:5N:41:VAL:HA	1.49	0.78
8:5S:108:THR:O	8:5T:36:ALA:N	2.16	0.78
4:2B:71:ARG:O	4:2B:72:TRP:HD1	1.65	0.78
8:5Q:41:VAL:HA	8:5V:28:ARG:HH12	1.47	0.78
4:2G:117:GLU:OE1	4:2G:117:GLU:O	2.02	0.78
8:5R:134:PHE:CD1	8:5Q:80:ARG:HD3	2.19	0.78
4:2J:92:VAL:HG22	4:2J:98:GLU:HG2	1.66	0.78
8:5Y:97:ASP:HB3	8:53:72:ASP:HB2	1.64	0.78
1:L9:256:ASP:HA	1:L9:259:VAL:HG12	1.65	0.77
4:2A:117:GLU:O	4:2A:117:GLU:OE1	2.02	0.77
9:7A:65:LEU:HD13	10:8A:803:ARG:HB2	1.63	0.77
1:A5:125:SER:CA	5:1B:38:ARG:NH1	2.48	0.77
5:1K:217:ASN:OD1	4:2J:196:ARG:NH2	2.18	0.77
4:2E:117:GLU:OE1	4:2E:117:GLU:O	2.02	0.77
1:BK:362:PHE:CZ	5:1J:44:ARG:NH1	2.52	0.77
1:BF:357:LYS:N	1:BF:358:PRO:HD2	1.98	0.77
1:LE:256:ASP:HA	1:LE:259:VAL:HG12	1.65	0.77
8:5A:27:LEU:HD13	8:5A:27:LEU:O	1.84	0.77
8:5E:27:LEU:O	8:5E:27:LEU:HD13	1.84	0.77
8:5P:44:LEU:CG	8:5U:7:LYS:HA	2.14	0.77
1:BP:357:LYS:N	1:BP:358:PRO:HD2	1.98	0.77
1:LO:256:ASP:HA	1:LO:259:VAL:HG12	1.65	0.77
1:AA:177:LYS:HG3	1:AA:361:LEU:HD13	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2B:92:VAL:HG22	4:2B:98:GLU:HG2	1.66	0.77
8:5R:42:THR:O	8:5V:116:HIS:ND1	2.17	0.77
1:TO:252:VAL:HG11	2:DN:3:VAL:CG1	2.15	0.77
1:T9:252:VAL:HG11	2:D8:3:VAL:CG1	2.15	0.77
8:5F:27:LEU:O	8:5F:27:LEU:HD13	1.84	0.77
1:BP:192:THR:HG21	5:1L:41:TRP:CE3	2.19	0.77
8:5C:38:THR:HG22	8:5B:106:MET:SD	2.25	0.77
4:2C:117:GLU:OE1	4:2C:117:GLU:O	2.02	0.77
4:2L:92:VAL:HG22	4:2L:98:GLU:HG2	1.66	0.77
4:2H:71:ARG:O	4:2H:72:TRP:HD1	1.65	0.77
4:2K:86:VAL:CG2	4:2K:107:LEU:HD12	2.15	0.77
8:5E:94:ILE:HG12	8:5E:100:ILE:HG22	1.67	0.77
8:5V:50:TRP:CH2	8:5T:84:PHE:HE1	2.01	0.77
8:5V:50:TRP:HH2	8:5T:84:PHE:HE1	1.28	0.77
4:2F:92:VAL:HG22	4:2F:98:GLU:HG2	1.66	0.77
4:2A:86:VAL:CG2	4:2A:107:LEU:HD12	2.15	0.76
8:5S:51:ARG:NH2	8:5X:61:SER:HB2	2.00	0.76
8:5D:27:LEU:O	8:5D:27:LEU:HD13	1.84	0.76
1:BF:192:THR:CG2	5:1G:161:GLY:O	2.32	0.76
8:5W:50:TRP:HH2	8:5U:84:PHE:HE1	1.32	0.76
4:2E:86:VAL:CG2	4:2E:107:LEU:HD12	2.16	0.76
8:5C:50:TRP:CE2	8:5B:132:LEU:HB2	2.20	0.76
11:6B:163:GLU:HG2	11:6A:69:ARG:HH12	1.50	0.76
8:5L:44:LEU:HD21	8:5Q:7:LYS:O	1.86	0.76
8:5D:94:ILE:HG12	8:5D:100:ILE:HG22	1.67	0.76
10:8A:784:VAL:HG13	10:8A:787:LEU:HD12	1.67	0.76
9:7B:134:LEU:CD2	10:8B:824:LEU:HB2	2.16	0.76
1:T4:252:VAL:HG11	2:D3:3:VAL:CG1	2.15	0.76
8:5Q:42:THR:O	8:5U:116:HIS:CG	2.38	0.76
8:5V:33:SER:HA	8:5U:111:ASP:CB	2.16	0.76
8:5C:27:LEU:O	8:5C:27:LEU:HD13	1.84	0.76
1:LJ:256:ASP:HA	1:LJ:259:VAL:HG12	1.65	0.76
8:5S:50:TRP:CZ2	8:5W:84:PHE:CE1	2.73	0.76
4:2K:117:GLU:OE1	4:2K:117:GLU:O	2.02	0.76
4:2I:86:VAL:CG2	4:2I:107:LEU:HD12	2.15	0.76
8:5U:44:LEU:HG	8:5Z:7:LYS:CA	2.16	0.76
1:TJ:252:VAL:HG11	2:DI:3:VAL:CG1	2.15	0.76
4:2B:161:GLN:HE22	4:2C:177:PRO:HD2	1.51	0.76
4:2H:92:VAL:HG22	4:2H:98:GLU:HG2	1.66	0.76
4:2D:92:VAL:HG22	4:2D:98:GLU:HG2	1.66	0.76
1:TE:252:VAL:HG11	2:DD:3:VAL:CG1	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:3A:44:GLY:HA3	7:3A:57:VAL:HG12	1.68	0.76
8:5F:94:ILE:HG12	8:5F:100:ILE:HG22	1.67	0.76
8:5C:94:ILE:HG12	8:5C:100:ILE:HG22	1.67	0.76
8:5I:44:LEU:HD11	8:5N:7:LYS:HA	1.68	0.76
1:AK:128:ASN:HB3	5:1I:41:TRP:CB	2.16	0.76
4:2I:117:GLU:OE1	4:2I:117:GLU:O	2.02	0.76
1:BF:177:LYS:HZ3	4:2E:128:THR:HG21	1.50	0.76
7:3F:44:GLY:HA3	7:3F:57:VAL:HG12	1.68	0.76
8:5W:44:LEU:CD1	8:5I:6:GLY:O	2.31	0.76
4:2G:86:VAL:CG2	4:2G:107:LEU:HD12	2.16	0.76
7:3B:44:GLY:HA3	7:3B:57:VAL:HG12	1.68	0.76
8:5S:50:TRP:HH2	8:5W:84:PHE:CE1	2.02	0.75
8:5E:50:TRP:CD1	8:5D:132:LEU:H	2.03	0.75
8:5U:44:LEU:CD1	8:5Z:7:LYS:CA	2.64	0.75
4:2C:86:VAL:CG2	4:2C:107:LEU:HD12	2.15	0.75
1:B5:359:HIS:CB	4:2A:121:ALA:C	2.59	0.75
1:Z9:151:THR:CB	4:2B:119:LEU:CB	2.65	0.75
7:3E:44:GLY:HA3	7:3E:57:VAL:HG12	1.68	0.75
8:5W:33:SER:CA	8:5V:111:ASP:HB3	2.17	0.75
10:8B:784:VAL:HG13	10:8B:787:LEU:HD12	1.67	0.75
1:P4:348:ARG:O	1:P4:364:ALA:HA	1.87	0.75
1:BP:189:ASP:OD2	5:1L:44:ARG:HA	1.85	0.75
1:BF:187:ALA:HA	5:1G:44:ARG:HD2	0.80	0.75
8:5X:44:LEU:N	8:5I:116:HIS:HB2	2.00	0.75
8:5Q:42:THR:O	8:5U:116:HIS:ND1	2.18	0.75
9:7C:134:LEU:CD2	10:8C:824:LEU:HB2	2.16	0.75
8:5Q:44:LEU:HB2	8:5U:116:HIS:HA	1.67	0.75
9:7A:134:LEU:CD2	10:8A:824:LEU:HB2	2.16	0.75
11:6F:163:GLU:HG2	11:6E:69:ARG:HH12	1.50	0.75
8:5A:106:MET:SD	8:5B:38:THR:HG22	2.26	0.75
8:5V:34:PHE:CD2	8:5U:110:ILE:HG13	2.21	0.75
11:6D:163:GLU:HG2	11:6C:69:ARG:HH12	1.50	0.75
6:4F:40:LEU:HD22	7:3F:54:LEU:HD21	1.69	0.75
8:5T:44:LEU:HD11	8:5Y:7:LYS:O	1.87	0.75
10:8C:784:VAL:HG13	10:8C:787:LEU:HD12	1.67	0.75
8:5S:110:ILE:HG13	8:5T:34:PHE:HD2	1.51	0.75
1:AK:349:VAL:CG1	5:1H:162:GLY:CA	2.65	0.75
1:P9:348:ARG:O	1:P9:364:ALA:HA	1.87	0.74
8:5S:72:ASP:HB2	8:5T:97:ASP:HB3	1.67	0.74
6:4B:40:LEU:HD22	7:3B:54:LEU:HD21	1.69	0.74
8:5V:44:LEU:HA	8:5Z:116:HIS:O	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5V:54:LEU:HG	8:51:3:ALA:HB1	1.67	0.74
11:6E:181:VAL:HA	11:6E:207:GLU:HA	1.70	0.74
8:5L:134:PHE:HB2	8:5K:84:PHE:HE2	1.52	0.74
8:5B:94:ILE:HG12	8:5B:100:ILE:HG22	1.67	0.74
1:PO:348:ARG:O	1:PO:364:ALA:HA	1.87	0.74
1:PE:348:ARG:O	1:PE:364:ALA:HA	1.87	0.74
8:5S:61:SER:HB2	8:5T:51:ARG:NH2	2.03	0.74
6:4C:40:LEU:HD22	7:3C:54:LEU:HD21	1.69	0.74
11:6A:181:VAL:HA	11:6A:207:GLU:HA	1.70	0.74
7:3D:44:GLY:HA3	7:3D:57:VAL:HG12	1.68	0.74
8:5A:94:ILE:HG12	8:5A:100:ILE:HG22	1.67	0.74
8:5S:84:PHE:HE1	8:5U:50:TRP:HH2	1.35	0.74
8:5P:41:VAL:HA	8:5U:28:ARG:HH12	1.52	0.74
8:5U:54:LEU:CG	8:50:3:ALA:HB1	2.18	0.74
8:5U:54:LEU:HD12	8:50:3:ALA:HB1	1.69	0.74
1:BF:177:LYS:HZ1	4:2E:128:THR:HG21	1.49	0.74
4:2A:177:PRO:HD2	4:2L:161:GLN:HE22	1.52	0.74
5:1A:217:ASN:OD1	4:2L:196:ARG:NH2	2.21	0.74
4:2B:5:GLU:CD	4:2B:61:ARG:NE	2.46	0.74
8:5F:27:LEU:HD21	8:5F:30:THR:HB	1.70	0.74
7:3C:44:GLY:HA3	7:3C:57:VAL:HG12	1.68	0.74
8:5C:44:LEU:HD21	8:5H:7:LYS:HA	1.70	0.74
8:5C:50:TRP:CB	8:5B:131:ALA:HA	2.17	0.74
1:A5:216:VAL:CB	4:2L:119:LEU:CD1	2.66	0.74
1:BK:179:SER:HB2	4:2H:121:ALA:HB1	0.76	0.74
8:5A:129:ALA:HA	8:5B:53:LEU:HD23	1.69	0.73
6:4E:40:LEU:HD22	7:3E:54:LEU:HD21	1.69	0.73
4:2F:5:GLU:CD	4:2F:61:ARG:NE	2.46	0.73
1:AA:168:PRO:HB3	4:2B:125:MET:HG3	1.69	0.73
8:5E:27:LEU:HD21	8:5E:30:THR:HB	1.70	0.73
8:5D:50:TRP:CE2	8:5C:132:LEU:HB2	2.23	0.73
8:5V:44:LEU:CD1	8:50:6:GLY:O	2.36	0.73
8:5X:33:SER:HA	8:5W:111:ASP:CB	2.18	0.73
8:5C:27:LEU:HD21	8:5C:30:THR:HB	1.70	0.73
6:4A:40:LEU:HD22	7:3A:54:LEU:HD21	1.69	0.73
8:5Q:43:SER:C	8:5U:116:HIS:HB2	2.13	0.73
8:5S:34:PHE:N	8:5X:110:ILE:O	2.15	0.73
8:5P:134:PHE:HB2	8:5O:84:PHE:CE2	2.22	0.73
7:3C:85:ARG:HD2	7:3B:68:VAL:HG11	1.70	0.73
8:5B:27:LEU:HD21	8:5B:30:THR:HB	1.69	0.73
8:5A:44:LEU:HD21	8:5L:7:LYS:HA	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5S:84:PHE:CD1	8:5U:50:TRP:CH2	2.74	0.73
8:5L:41:VAL:HA	8:5Q:28:ARG:HH12	1.52	0.73
8:5D:38:THR:HG22	8:5C:106:MET:SD	2.29	0.73
1:PJ:348:ARG:O	1:PJ:364:ALA:HA	1.87	0.73
8:5M:50:TRP:CE3	8:5R:60:ARG:HG3	2.23	0.73
8:5K:42:THR:HG23	8:5O:116:HIS:CE1	2.24	0.73
1:B5:357:LYS:HE2	1:B5:357:LYS:CA	2.18	0.73
1:AA:345:PRO:O	5:1D:41:TRP:HD1	1.71	0.73
8:5A:27:LEU:HD21	8:5A:30:THR:HB	1.69	0.73
8:5E:60:ARG:NH2	8:5D:83:PHE:O	2.21	0.73
8:5Q:44:LEU:O	8:5V:7:LYS:HE2	1.88	0.73
4:2H:89:LEU:HD21	4:2H:116:ILE:HD11	1.71	0.73
6:4D:40:LEU:HD22	7:3D:54:LEU:HD21	1.69	0.73
4:2F:89:LEU:HD21	4:2F:116:ILE:HD11	1.71	0.73
1:BA:357:LYS:HE2	1:BA:357:LYS:CA	2.18	0.72
4:2F:65:LEU:CD2	4:2F:67:LEU:HD23	2.19	0.72
4:2D:5:GLU:CD	4:2D:61:ARG:NE	2.46	0.72
8:5M:43:SER:C	8:5W:116:HIS:HB2	2.14	0.72
8:5R:44:LEU:HD11	8:5W:7:LYS:CA	2.19	0.72
4:2J:5:GLU:CD	4:2J:61:ARG:NE	2.46	0.72
4:2J:65:LEU:CD2	4:2J:67:LEU:HD23	2.20	0.72
8:5V:34:PHE:O	8:5U:109:SER:HB2	1.89	0.72
8:5V:44:LEU:HD11	8:50:6:GLY:O	1.89	0.72
4:2D:89:LEU:HD21	4:2D:116:ILE:HD11	1.71	0.72
1:AF:125:SER:CB	5:1G:38:ARG:NH2	2.51	0.72
1:AA:170:HIS:CE1	4:2B:125:MET:CG	2.71	0.72
4:2B:89:LEU:HD21	4:2B:116:ILE:HD11	1.71	0.72
8:5W:41:VAL:CG1	8:51:28:ARG:NH1	2.48	0.72
8:5D:27:LEU:HD21	8:5D:30:THR:HB	1.70	0.72
11:6A:9:PRO:HG2	11:6A:62:LEU:HD23	1.71	0.72
1:TE:252:VAL:HG11	2:DD:3:VAL:HG13	1.72	0.72
10:8B:5:LEU:HG	10:8B:7:SER:H	1.55	0.72
4:2H:65:LEU:CD2	4:2H:67:LEU:HD23	2.20	0.72
4:2F:65:LEU:HD21	4:2F:67:LEU:HD23	1.71	0.72
4:2D:65:LEU:HD21	4:2D:67:LEU:HD23	1.72	0.72
1:BF:357:LYS:HE2	1:BF:357:LYS:CA	2.19	0.72
4:2L:65:LEU:CD2	4:2L:67:LEU:HD23	2.20	0.72
10:8C:774:CYS:HB2	10:8C:782:ILE:HD12	1.72	0.72
1:AK:349:VAL:HG11	5:1H:162:GLY:CA	2.20	0.72
8:5A:50:TRP:CD1	8:5F:132:LEU:H	2.08	0.72
8:5X:44:LEU:CD1	8:51:116:HIS:HA	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5A:131:ALA:HA	8:5B:50:TRP:CB	2.20	0.72
8:5W:44:LEU:CD2	8:51:7:LYS:CA	2.66	0.72
8:5C:41:VAL:HG21	8:5C:54:LEU:HB2	1.72	0.72
11:6C:181:VAL:HA	11:6C:207:GLU:HA	1.70	0.72
1:BP:357:LYS:HE2	1:BP:357:LYS:CA	2.18	0.72
1:BO:90:LEU:HD13	1:BO:91:ASN:HB2	1.72	0.72
1:BK:351:ARG:NH2	5:1J:41:TRP:CB	2.45	0.72
8:5G:42:THR:CG2	8:5Q:116:HIS:CE1	2.72	0.72
8:5E:41:VAL:HG21	8:5E:54:LEU:HB2	1.72	0.72
4:2H:70:TRP:CD1	4:2H:126:ILE:HD11	2.25	0.72
4:2D:65:LEU:CD2	4:2D:67:LEU:HD23	2.20	0.72
9:7A:134:LEU:HD23	10:8A:824:LEU:HB2	1.72	0.72
10:8A:774:CYS:HB2	10:8A:782:ILE:HD12	1.72	0.72
7:3A:94:GLU:OE1	7:3B:8:ARG:NH2	2.21	0.71
8:5W:42:THR:CG2	8:50:116:HIS:HE1	2.03	0.71
1:BK:357:LYS:HE2	1:BK:357:LYS:CA	2.19	0.71
1:BJ:90:LEU:HD13	1:BJ:91:ASN:HB2	1.72	0.71
4:2B:65:LEU:HD21	4:2B:67:LEU:HD23	1.72	0.71
8:5G:41:VAL:HA	8:5R:28:ARG:HH12	1.55	0.71
4:2K:177:PRO:HD2	4:2J:161:GLN:HE22	1.55	0.71
4:2L:89:LEU:HD21	4:2L:116:ILE:HD11	1.71	0.71
4:2J:89:LEU:HD21	4:2J:116:ILE:HD11	1.71	0.71
8:5V:44:LEU:O	8:50:7:LYS:HE2	1.89	0.71
4:2J:70:TRP:CD1	4:2J:126:ILE:HD11	2.25	0.71
8:5Q:134:PHE:CD1	8:5P:80:ARG:HD3	2.25	0.71
1:A5:126:VAL:N	5:1B:38:ARG:HH12	1.88	0.71
1:TJ:252:VAL:HG11	2:DI:3:VAL:HG13	1.72	0.71
4:2B:65:LEU:CD2	4:2B:67:LEU:HD23	2.20	0.71
8:5S:110:ILE:O	8:5T:34:PHE:N	2.18	0.71
8:5M:84:PHE:CE2	8:5N:134:PHE:HB2	2.22	0.71
4:2L:70:TRP:CD1	4:2L:126:ILE:HD11	2.25	0.71
8:5X:84:PHE:CE1	8:5T:50:TRP:CZ2	2.78	0.71
8:5P:42:THR:CG2	8:5T:116:HIS:HE1	2.04	0.71
4:2F:70:TRP:CD1	4:2F:126:ILE:HD11	2.25	0.71
1:AJ:185:ASP:OD2	1:BE:367:ARG:NH1	2.24	0.71
4:2J:65:LEU:HD21	4:2J:67:LEU:HD23	1.72	0.71
8:5U:33:SER:HA	8:5T:111:ASP:CB	2.20	0.71
6:4A:58:LYS:NZ	8:5F:27:LEU:CD1	2.53	0.71
11:6C:9:PRO:HG2	11:6C:62:LEU:HD23	1.71	0.71
1:T9:252:VAL:HG11	2:D8:3:VAL:HG13	1.72	0.71
1:B5:358:PRO:HG3	4:2A:74:ASP:N	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:349:VAL:HG11	5:1H:162:GLY:HA3	1.71	0.71
8:5S:34:PHE:O	8:5X:109:SER:HB2	1.91	0.71
4:2H:5:GLU:CD	4:2H:61:ARG:NE	2.46	0.71
1:TO:252:VAL:HG11	2:DN:3:VAL:HG13	1.72	0.71
8:5X:84:PHE:CE1	8:5T:50:TRP:HH2	2.06	0.71
8:5E:44:LEU:CD2	8:5J:7:LYS:HA	2.21	0.71
1:B9:90:LEU:HD13	1:B9:91:ASN:HB2	1.72	0.71
4:2B:70:TRP:CD1	4:2B:126:ILE:HD11	2.25	0.71
8:5A:83:PHE:O	8:5B:60:ARG:NH2	2.24	0.71
8:5M:44:LEU:CG	8:5X:7:LYS:HA	2.21	0.71
8:5X:44:LEU:CG	8:51:116:HIS:HA	2.20	0.71
1:CF:220:THR:HB	1:CF:371:ASP:HB3	1.73	0.70
8:5K:134:PHE:HB2	8:5J:84:PHE:HE2	1.56	0.70
8:52:114:GLY:HA3	8:53:9:LEU:HD21	1.73	0.70
1:CP:220:THR:HB	1:CP:371:ASP:HB3	1.73	0.70
1:T4:252:VAL:HG11	2:D3:3:VAL:HG13	1.72	0.70
1:BP:349:VAL:CG1	5:1L:161:GLY:HA2	2.19	0.70
1:CK:220:THR:HB	1:CK:371:ASP:HB3	1.73	0.70
1:CA:220:THR:HB	1:CA:371:ASP:HB3	1.73	0.70
4:2L:5:GLU:CD	4:2L:61:ARG:NE	2.46	0.70
6:4D:40:LEU:HB2	7:3D:111:VAL:HB	1.73	0.70
4:2D:70:TRP:CD1	4:2D:126:ILE:HD11	2.25	0.70
9:7B:67:VAL:HB	9:7B:133:GLY:H	1.56	0.70
1:B4:90:LEU:HD13	1:B4:91:ASN:HB2	1.72	0.70
8:5K:44:LEU:HD21	8:5P:7:LYS:O	1.91	0.70
4:2H:65:LEU:HD21	4:2H:67:LEU:HD23	1.72	0.70
1:AO:185:ASP:OD2	1:BJ:367:ARG:NH1	2.24	0.70
4:2L:65:LEU:HD21	4:2L:67:LEU:HD23	1.71	0.70
8:5K:41:VAL:HA	8:5P:28:ARG:HH12	1.57	0.70
9:7C:134:LEU:HD23	10:8C:824:LEU:HB2	1.72	0.70
8:5S:53:LEU:HB2	8:5X:129:ALA:CA	2.20	0.70
8:5B:41:VAL:HG21	8:5B:54:LEU:HB2	1.72	0.70
9:7C:67:VAL:HB	9:7C:133:GLY:H	1.56	0.70
1:BP:192:THR:HG21	5:1L:41:TRP:CD2	2.27	0.70
1:BE:90:LEU:HD13	1:BE:91:ASN:HB2	1.72	0.70
1:AA:130:GLU:OE2	5:1D:45:ASP:HA	1.92	0.70
1:AA:289:LYS:HZ2	1:AA:289:LYS:HB2	1.57	0.70
8:5S:129:ALA:CA	8:5T:53:LEU:HB2	2.21	0.70
8:5P:44:LEU:HD11	8:5U:7:LYS:CA	2.18	0.70
11:6A:21:GLU:HG2	11:6F:187:ARG:HB3	1.73	0.70
1:GJ:150:GLU:HG3	1:CJ:91:ASN:HB2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:189:ASP:CG	5:1E:44:ARG:HG3	2.17	0.70
8:5F:41:VAL:HG21	8:5F:54:LEU:HB2	1.72	0.70
8:5W:55:GLY:HA2	8:5V:106:MET:HE2	1.74	0.70
8:5D:41:VAL:HG21	8:5D:54:LEU:HB2	1.72	0.70
8:5U:34:PHE:CD2	8:5T:110:ILE:HG13	2.27	0.70
8:5T:54:LEU:HG	8:5Z:3:ALA:HB3	1.71	0.70
11:6E:9:PRO:HG2	11:6E:62:LEU:HD23	1.71	0.70
1:A4:185:ASP:OD2	1:BO:367:ARG:NH1	2.25	0.70
1:G4:150:GLU:HG3	1:C4:91:ASN:HB2	1.73	0.70
1:AE:185:ASP:OD2	1:B9:367:ARG:NH1	2.24	0.70
8:5A:83:PHE:CE2	8:5B:34:PHE:HB3	2.27	0.70
6:4F:40:LEU:HB2	7:3F:111:VAL:HB	1.73	0.70
6:4C:40:LEU:HB2	7:3C:111:VAL:HB	1.73	0.70
9:7B:150:CYS:SG	9:7B:151:ALA:N	2.64	0.70
8:5F:41:VAL:HA	8:5K:28:ARG:NH1	2.07	0.70
8:5U:42:THR:HG23	8:5Y:116:HIS:ND1	2.06	0.70
8:5U:44:LEU:HD12	8:5Z:7:LYS:HA	1.73	0.70
8:5Y:114:GLY:HA3	8:5Z:9:LEU:HD21	1.73	0.70
9:7C:150:CYS:SG	9:7C:151:ALA:N	2.64	0.70
10:8C:5:LEU:HG	10:8C:7:SER:H	1.55	0.70
10:8B:774:CYS:HB2	10:8B:782:ILE:HD12	1.72	0.70
8:5E:53:LEU:HD23	8:5D:129:ALA:HA	1.74	0.69
8:5Q:51:ARG:NH1	8:5P:61:SER:OG	2.25	0.69
8:5P:50:TRP:CE3	8:5O:60:ARG:HG3	2.26	0.69
6:4B:40:LEU:HB2	7:3B:111:VAL:HB	1.73	0.69
9:7A:150:CYS:SG	9:7A:151:ALA:N	2.64	0.69
11:6E:21:GLU:HG2	11:6D:187:ARG:HB3	1.74	0.69
1:AP:346:ASP:HB3	5:1K:41:TRP:CG	2.28	0.69
1:C5:220:THR:HB	1:C5:371:ASP:HB3	1.73	0.69
6:4A:40:LEU:HB2	7:3A:111:VAL:HB	1.73	0.69
8:5A:41:VAL:HG21	8:5A:54:LEU:HB2	1.72	0.69
8:5S:34:PHE:CD2	8:5X:110:ILE:HG13	2.26	0.69
8:5R:44:LEU:HB2	8:5V:116:HIS:HA	1.73	0.69
8:5W:50:TRP:CH2	8:5U:84:PHE:HE1	2.00	0.69
8:5F:44:LEU:CD2	8:5K:7:LYS:HA	2.21	0.69
8:5X:116:HIS:HE1	8:5N:42:THR:CG2	2.02	0.69
10:8A:5:LEU:HG	10:8A:7:SER:H	1.55	0.69
8:50:114:GLY:HA3	8:51:9:LEU:HD21	1.73	0.69
1:A5:168:PRO:CG	4:2L:120:GLY:C	2.65	0.69
1:EE:348:ARG:O	1:EE:364:ALA:HA	1.93	0.69
8:5G:134:PHE:HB2	8:5L:84:PHE:HE2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2K:86:VAL:HG23	4:2K:107:LEU:CD1	2.23	0.69
7:3F:8:ARG:NH2	7:3E:94:GLU:OE1	2.25	0.69
8:5B:51:ARG:HE	8:5B:53:LEU:HD21	1.58	0.69
1:EO:348:ARG:O	1:EO:364:ALA:HA	1.93	0.69
8:5A:51:ARG:HE	8:5A:53:LEU:HD21	1.58	0.69
8:5F:51:ARG:HE	8:5F:53:LEU:HD21	1.58	0.69
1:MO:157:THR:HG23	1:MO:158:ALA:H	1.58	0.69
1:BK:196:ASN:OD1	5:1J:34:SER:O	2.11	0.69
1:JJ:256:ASP:HA	1:JJ:259:VAL:HG12	1.75	0.69
1:AA:170:HIS:HE1	4:2B:125:MET:CG	2.04	0.69
1:E9:348:ARG:O	1:E9:364:ALA:HA	1.93	0.69
4:2A:86:VAL:HG23	4:2A:107:LEU:CD1	2.23	0.69
8:5X:50:TRP:HH2	8:5V:84:PHE:HE1	1.41	0.69
6:4E:40:LEU:HB2	7:3E:111:VAL:HB	1.73	0.69
8:5E:51:ARG:HE	8:5E:53:LEU:HD21	1.58	0.69
8:5Q:44:LEU:HD21	8:5V:7:LYS:C	2.17	0.69
8:5C:51:ARG:HE	8:5C:53:LEU:HD21	1.58	0.69
8:5U:31:ARG:NH1	8:5T:111:ASP:OD2	2.26	0.69
9:7A:67:VAL:HB	9:7A:133:GLY:H	1.56	0.69
11:6A:184:ASP:OD2	11:6A:206:VAL:HG13	1.93	0.69
11:6E:184:ASP:OD2	11:6E:206:VAL:HG13	1.93	0.69
9:7B:134:LEU:HD23	10:8B:824:LEU:HB2	1.72	0.69
8:50:106:MET:HE3	8:51:53:LEU:HB3	1.75	0.69
1:ZO:152:ALA:HB1	4:2I:103:ALA:HB3	1.75	0.69
1:GO:150:GLU:HG3	1:CO:91:ASN:HB2	1.73	0.69
8:5U:44:LEU:HG	8:5Z:7:LYS:CB	2.23	0.69
11:6C:184:ASP:OD2	11:6C:206:VAL:HG13	1.93	0.69
1:ZO:152:ALA:HA	4:2I:103:ALA:HB1	1.75	0.69
1:JO:256:ASP:HA	1:JO:259:VAL:HG12	1.75	0.69
1:GE:150:GLU:HG3	1:CE:91:ASN:HB2	1.73	0.69
1:G9:150:GLU:HG3	1:C9:91:ASN:HB2	1.73	0.69
7:3A:8:ARG:NH2	7:3F:94:GLU:OE1	2.25	0.69
8:5M:41:VAL:HA	8:5X:28:ARG:NH1	2.08	0.69
8:5F:25:ALA:HB1	8:5F:71:LYS:HE3	1.75	0.69
4:2J:3:LEU:HD22	4:2J:79:PRO:CG	2.23	0.69
8:5P:44:LEU:N	8:5T:116:HIS:HB2	2.07	0.69
8:52:106:MET:HE3	8:53:53:LEU:HB3	1.75	0.69
1:U4:181:ARG:HG3	1:QO:367:ARG:HH22	1.58	0.68
1:JO:252:VAL:HG11	2:EM:3:VAL:CG1	2.23	0.68
1:AF:289:LYS:NZ	1:AF:289:LYS:HB2	2.08	0.68
1:BF:355:SER:O	4:2F:122:MET:HG2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UE:181:ARG:HG3	1:Q9:367:ARG:HH22	1.58	0.68
1:JE:252:VAL:HG11	2:EC:3:VAL:HG13	1.75	0.68
1:JE:256:ASP:HA	1:JE:259:VAL:HG12	1.75	0.68
1:J9:252:VAL:HG11	2:E7:3:VAL:CG1	2.23	0.68
8:5A:41:VAL:HA	8:5L:28:ARG:NH1	2.08	0.68
8:5A:132:LEU:HB2	8:5B:50:TRP:CE2	2.28	0.68
8:5X:44:LEU:HB2	8:51:116:HIS:CB	2.23	0.68
8:5W:44:LEU:CA	8:50:116:HIS:CB	2.69	0.68
4:2G:192:VAL:O	5:1F:252:HIS:NE2	2.26	0.68
8:5U:44:LEU:HG	8:5Z:7:LYS:HB3	1.75	0.68
1:J4:256:ASP:HA	1:J4:259:VAL:HG12	1.75	0.68
1:BP:193:TRP:HB2	5:1L:44:ARG:HH12	1.58	0.68
4:2B:3:LEU:HD22	4:2B:79:PRO:CG	2.23	0.68
8:5A:25:ALA:HB1	8:5A:71:LYS:HE3	1.75	0.68
8:5A:27:LEU:CD1	6:4B:58:LYS:NZ	2.56	0.68
8:5W:44:LEU:CB	8:50:116:HIS:CA	2.62	0.68
8:5W:51:ARG:CZ	8:5V:61:SER:HB2	2.22	0.68
8:5D:51:ARG:HE	8:5D:53:LEU:HD21	1.58	0.68
8:5B:25:ALA:HB1	8:5B:71:LYS:HE3	1.75	0.68
1:B4:367:ARG:NH1	1:A9:185:ASP:OD2	2.26	0.68
1:JJ:252:VAL:HG11	2:EH:3:VAL:CG1	2.23	0.68
8:5G:44:LEU:HD11	8:5R:7:LYS:HA	1.75	0.68
4:2G:86:VAL:HG23	4:2G:107:LEU:HD12	1.76	0.68
1:UJ:181:ARG:HG3	1:QE:367:ARG:HH22	1.59	0.68
1:M9:157:THR:HG23	1:M9:158:ALA:H	1.58	0.68
7:3A:67:PRO:HB3	4:2C:30:ALA:HA	1.76	0.68
8:5M:134:PHE:CD1	8:5R:80:ARG:HD3	2.28	0.68
4:2H:3:LEU:HD22	4:2H:79:PRO:CG	2.23	0.68
4:2D:3:LEU:HD22	4:2D:79:PRO:CG	2.23	0.68
1:J4:252:VAL:HG11	2:E2:3:VAL:CG1	2.23	0.68
1:AK:289:LYS:HB2	1:AK:289:LYS:NZ	2.08	0.68
1:J9:256:ASP:HA	1:J9:259:VAL:HG12	1.75	0.68
8:5M:42:THR:HG21	8:5W:116:HIS:HE1	1.59	0.68
8:5W:50:TRP:HZ2	8:5U:84:PHE:CG	2.06	0.68
4:2F:3:LEU:HD22	4:2F:79:PRO:CG	2.23	0.68
8:5Y:106:MET:HE3	8:5Z:53:LEU:HB3	1.75	0.68
1:UO:181:ARG:HG3	1:QJ:367:ARG:HH22	1.58	0.68
4:2I:86:VAL:HG23	4:2I:107:LEU:CD1	2.23	0.68
8:5E:25:ALA:HB1	8:5E:71:LYS:HE3	1.76	0.68
8:5V:44:LEU:CD2	8:50:7:LYS:CA	2.71	0.68
11:6B:187:ARG:HB3	11:6C:21:GLU:HG2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:6B:192:VAL:HG21	8:50:44:LEU:HD11	1.75	0.68
1:JO:252:VAL:HG11	2:EM:3:VAL:HG13	1.75	0.68
8:5L:42:THR:CG2	8:5P:116:HIS:CE1	2.76	0.68
5:1G:185:THR:O	5:1F:139:ARG:NH2	2.26	0.68
1:JE:252:VAL:HG11	2:EC:3:VAL:CG1	2.23	0.68
1:AA:289:LYS:HB2	1:AA:289:LYS:NZ	2.08	0.68
8:5G:41:VAL:HA	8:5R:28:ARG:NH1	2.08	0.68
8:5Q:44:LEU:O	8:5V:7:LYS:NZ	2.26	0.68
1:EJ:348:ARG:O	1:EJ:364:ALA:HA	1.93	0.68
4:2L:3:LEU:HD22	4:2L:79:PRO:CG	2.24	0.68
8:5F:50:TRP:CD1	8:5E:132:LEU:H	2.12	0.68
8:5D:35:ASN:O	8:5C:83:PHE:HZ	1.76	0.68
8:5C:25:ALA:HB1	8:5C:71:LYS:HE3	1.75	0.68
11:6F:9:PRO:HG2	11:6F:62:LEU:HD23	1.76	0.68
11:6F:181:VAL:HA	11:6F:207:GLU:HA	1.76	0.68
1:J4:252:VAL:HG11	2:E2:3:VAL:HG13	1.75	0.68
1:E4:348:ARG:O	1:E4:364:ALA:HA	1.93	0.68
1:UO:291:ALA:O	2:CN:10:SER:HB2	1.94	0.68
1:UE:291:ALA:O	2:CD:10:SER:HB2	1.94	0.68
1:J9:252:VAL:HG11	2:E7:3:VAL:HG13	1.75	0.68
8:5W:97:ASP:H	8:5V:70:PHE:HE2	1.42	0.68
9:7C:100:LEU:O	9:7C:100:LEU:HD23	1.94	0.68
1:A5:216:VAL:CB	4:2L:119:LEU:CD2	2.72	0.67
1:A5:289:LYS:HB2	1:A5:289:LYS:NZ	2.08	0.67
1:UJ:291:ALA:O	2:CI:10:SER:HB2	1.94	0.67
8:5M:42:THR:O	8:5W:116:HIS:ND1	2.27	0.67
4:2E:86:VAL:HG23	4:2E:107:LEU:HD12	1.76	0.67
10:8B:214:ASP:CG	10:8B:765:PRO:HG3	2.19	0.67
1:AP:126:VAL:CG2	5:1K:162:GLY:HA3	2.12	0.67
8:5A:41:VAL:HG13	8:5L:69:VAL:HG21	1.76	0.67
8:5A:131:ALA:HA	8:5B:50:TRP:CG	2.29	0.67
8:5X:31:ARG:NH1	8:5W:111:ASP:OD2	2.28	0.67
8:5W:42:THR:O	8:50:116:HIS:CG	2.47	0.67
4:2C:86:VAL:HG23	4:2C:107:LEU:CD1	2.23	0.67
10:8C:859:ALA:O	9:7B:140:GLN:NE2	2.28	0.67
1:U4:291:ALA:O	2:C3:10:SER:HB2	1.94	0.67
1:AK:128:ASN:H	5:1I:41:TRP:CD1	2.13	0.67
1:JJ:252:VAL:HG11	2:EH:3:VAL:HG13	1.75	0.67
1:ME:157:THR:HG23	1:ME:158:ALA:H	1.58	0.67
4:2G:86:VAL:HG23	4:2G:107:LEU:CD1	2.23	0.67
8:5D:50:TRP:CB	8:5C:131:ALA:HA	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2E:86:VAL:HG23	4:2E:107:LEU:CD1	2.23	0.67
8:5O:44:LEU:HD11	8:5T:7:LYS:CA	2.23	0.67
10:8A:214:ASP:CG	10:8A:765:PRO:HG3	2.19	0.67
1:CO:348:ARG:O	1:CO:364:ALA:HA	1.95	0.67
1:F9:101:LEU:HD12	1:F9:101:LEU:N	2.09	0.67
8:5D:25:ALA:HB1	8:5D:71:LYS:HE3	1.75	0.67
8:5O:41:VAL:HA	8:5T:28:ARG:HH12	1.58	0.67
1:AP:289:LYS:HB2	1:AP:289:LYS:NZ	2.08	0.67
4:2I:86:VAL:HG23	4:2I:107:LEU:HD12	1.76	0.67
4:2C:90:ARG:HA	4:2C:100:PRO:HA	1.77	0.67
1:FJ:101:LEU:HD12	1:FJ:101:LEU:N	2.09	0.67
4:2K:90:ARG:HA	4:2K:100:PRO:HA	1.77	0.67
4:2E:90:ARG:HA	4:2E:100:PRO:HA	1.77	0.67
1:CE:348:ARG:O	1:CE:364:ALA:HA	1.94	0.67
8:5S:111:ASP:OD2	8:5T:31:ARG:NH1	2.26	0.67
8:5X:116:HIS:CG	8:5N:42:THR:O	2.48	0.67
8:5R:51:ARG:NH1	8:5Q:61:SER:OG	2.28	0.67
8:5O:134:PHE:HB2	8:5N:84:PHE:CE2	2.28	0.67
11:6D:181:VAL:HA	11:6D:207:GLU:HA	1.76	0.67
1:M4:157:THR:HG23	1:M4:158:ALA:H	1.58	0.67
1:F4:101:LEU:HD12	1:F4:101:LEU:N	2.09	0.67
1:BK:351:ARG:C	5:1J:44:ARG:HH22	2.02	0.67
1:N9:367:ARG:HH22	1:L9:181:ARG:HG3	1.60	0.67
1:C9:348:ARG:O	1:C9:364:ALA:HA	1.94	0.67
4:2G:90:ARG:HA	4:2G:100:PRO:HA	1.77	0.67
9:7A:100:LEU:HD23	9:7A:100:LEU:O	1.94	0.67
9:7C:195:TRP:HD1	9:7C:196:PHE:HD1	1.43	0.67
9:7B:100:LEU:O	9:7B:100:LEU:HD23	1.94	0.67
10:8B:774:CYS:SG	10:8B:782:ILE:HD12	2.35	0.67
1:N4:367:ARG:HH22	1:L4:181:ARG:HG3	1.60	0.67
1:BK:351:ARG:HB3	5:1J:44:ARG:CZ	2.15	0.67
1:BK:351:ARG:HB3	5:1J:44:ARG:HH22	0.84	0.67
1:NE:367:ARG:HH22	1:LE:181:ARG:HG3	1.60	0.67
4:2I:90:ARG:HA	4:2I:100:PRO:HA	1.77	0.67
7:3E:85:ARG:HD2	7:3D:68:VAL:HG11	1.77	0.67
1:A5:168:PRO:CA	4:2L:121:ALA:HB3	2.21	0.67
1:NO:367:ARG:HH22	1:LO:181:ARG:HG3	1.60	0.67
1:BF:177:LYS:HB2	1:BF:359:HIS:CB	2.25	0.67
1:RE:91:ASN:HB2	1:PE:150:GLU:OE1	1.95	0.67
8:5K:44:LEU:CD1	8:5P:7:LYS:HA	2.24	0.67
1:Q4:367:ARG:HH22	1:U9:181:ARG:HG3	1.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RO:91:ASN:HB2	1:PO:150:GLU:OE1	1.95	0.66
1:WO:252:VAL:HG11	2:BN:3:VAL:CG1	2.25	0.66
1:E9:149:SER:HB3	1:E9:152:ALA:HB2	1.78	0.66
10:8C:214:ASP:CG	10:8C:765:PRO:HG3	2.19	0.66
1:MJ:157:THR:HG23	1:MJ:158:ALA:H	1.58	0.66
1:U9:291:ALA:O	2:C8:10:SER:HB2	1.94	0.66
4:2A:90:ARG:HA	4:2A:100:PRO:HA	1.77	0.66
8:5X:84:PHE:CD1	8:5T:50:TRP:CH2	2.81	0.66
8:5R:44:LEU:HG	8:5W:7:LYS:HA	1.77	0.66
8:5Q:55:GLY:HA2	8:5P:106:MET:HE2	1.78	0.66
1:IJ:252:VAL:HG11	2:DH:3:VAL:HG13	1.77	0.66
1:FE:101:LEU:N	1:FE:101:LEU:HD12	2.09	0.66
8:5W:32:ILE:HG23	8:5V:112:TYR:H	1.59	0.66
8:5U:42:THR:CG2	8:5Y:116:HIS:CE1	2.77	0.66
10:8A:919:ARG:HH12	9:7C:232:GLN:HE22	1.43	0.66
11:6B:9:PRO:HG2	11:6B:62:LEU:HD23	1.76	0.66
11:6A:195:PHE:CE1	8:5Z:49:GLY:HA2	2.30	0.66
1:EO:149:SER:HB3	1:EO:152:ALA:HB2	1.78	0.66
4:2A:86:VAL:HG23	4:2A:107:LEU:HD12	1.76	0.66
4:2K:86:VAL:HG23	4:2K:107:LEU:HD12	1.76	0.66
11:6E:195:PHE:CE1	8:53:49:GLY:HA2	2.30	0.66
4:2E:195:GLY:HA2	5:1E:253:GLN:HE22	1.61	0.66
8:5U:54:LEU:HG	8:50:3:ALA:HB1	1.74	0.66
11:6F:21:GLU:HG2	11:6F:44:ARG:HB2	1.77	0.66
11:6D:9:PRO:HG2	11:6D:62:LEU:HD23	1.76	0.66
1:C4:348:ARG:O	1:C4:364:ALA:HA	1.94	0.66
4:2A:195:GLY:HA2	5:1A:253:GLN:HE22	1.61	0.66
8:5Q:50:TRP:CD2	8:5P:60:ARG:HG3	2.31	0.66
11:6C:195:PHE:CE1	8:51:49:GLY:HA2	2.30	0.66
1:W4:252:VAL:HG11	2:B3:3:VAL:CG1	2.25	0.66
1:IO:252:VAL:HG11	2:DM:3:VAL:HG13	1.77	0.66
5:1I:185:THR:O	5:1H:139:ARG:NH2	2.29	0.66
8:5V:43:SER:CA	8:5Z:116:HIS:HB2	2.26	0.66
1:R4:91:ASN:HB2	1:P4:150:GLU:OE1	1.95	0.66
1:FO:101:LEU:HD12	1:FO:101:LEU:N	2.09	0.66
1:WJ:252:VAL:HG11	2:BI:3:VAL:CG1	2.25	0.66
1:RE:104:PRO:HB3	1:QE:133:SER:HB2	1.78	0.66
1:WE:252:VAL:HG11	2:BD:3:VAL:CG1	2.26	0.66
1:IE:252:VAL:HG11	2:DC:3:VAL:HG13	1.77	0.66
8:5L:41:VAL:HA	8:5Q:28:ARG:NH1	2.09	0.66
4:2C:86:VAL:HG23	4:2C:107:LEU:HD12	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:8A:774:CYS:SG	10:8A:782:ILE:HD12	2.35	0.66
8:5Y:44:LEU:HD11	11:6F:192:VAL:HG21	1.76	0.66
8:52:44:LEU:HD11	11:6D:192:VAL:HG21	1.76	0.66
1:BP:177:LYS:HB2	1:BP:359:HIS:CB	2.25	0.66
1:RJ:91:ASN:HB2	1:PJ:150:GLU:OE1	1.95	0.66
8:5G:44:LEU:HD21	8:5R:7:LYS:O	1.96	0.66
4:2K:30:ALA:HA	7:3E:67:PRO:HB3	1.77	0.66
8:5P:44:LEU:O	8:5U:7:LYS:HE2	1.96	0.66
8:5T:54:LEU:HD11	8:5Z:4:GLN:N	2.10	0.66
9:7A:140:GLN:NE2	10:8B:859:ALA:O	2.28	0.66
8:5Y:70:PHE:HE1	8:5Z:98:PHE:CZ	2.14	0.66
10:8C:774:CYS:SG	10:8C:782:ILE:HD12	2.35	0.66
11:6E:184:ASP:HB2	11:6E:204:PRO:HG2	1.78	0.66
1:RO:104:PRO:HB3	1:QO:133:SER:HB2	1.78	0.66
1:LE:289:LYS:HD2	2:AC:7:HIS:CE1	2.31	0.66
1:W9:252:VAL:HG11	2:B8:3:VAL:CG1	2.25	0.66
8:5P:44:LEU:HB2	8:5T:116:HIS:HA	1.78	0.66
7:3C:8:ARG:NH2	7:3B:94:GLU:OE1	2.29	0.66
9:7A:100:LEU:HB2	9:7A:112:ILE:HD11	1.78	0.66
8:52:70:PHE:HE1	8:53:98:PHE:CZ	2.14	0.66
1:R4:104:PRO:HB3	1:Q4:133:SER:HB2	1.78	0.65
1:JO:185:ASP:OD1	1:RJ:344:ARG:NH1	2.29	0.65
1:LO:289:LYS:HD2	2:AM:7:HIS:CE1	2.31	0.65
1:SE:252:VAL:HG11	2:CD:3:VAL:HG13	1.79	0.65
1:R9:91:ASN:HB2	1:P9:150:GLU:OE1	1.95	0.65
8:5X:33:SER:CA	8:5W:111:ASP:HB3	2.24	0.65
11:6B:21:GLU:HG2	11:6B:44:ARG:HB2	1.77	0.65
1:AK:141:THR:HG22	1:AK:142:ASP:N	2.11	0.65
1:AA:141:THR:HG22	1:AA:142:ASP:N	2.11	0.65
8:5G:69:VAL:HG21	8:5B:41:VAL:HG13	1.78	0.65
8:5R:41:VAL:HA	8:5W:28:ARG:NH1	2.12	0.65
4:2I:195:GLY:HA2	5:1I:253:GLN:HE22	1.61	0.65
4:2C:195:GLY:HA2	5:1C:253:GLN:HE22	1.61	0.65
11:6B:181:VAL:HA	11:6B:207:GLU:HA	1.76	0.65
9:7B:100:LEU:HB2	9:7B:112:ILE:HD11	1.78	0.65
1:EJ:149:SER:HB3	1:EJ:152:ALA:HB2	1.78	0.65
1:CJ:348:ARG:O	1:CJ:364:ALA:HA	1.94	0.65
8:5G:7:LYS:HA	8:5B:44:LEU:HD21	1.79	0.65
8:5R:44:LEU:O	8:5W:7:LYS:NZ	2.29	0.65
8:5W:44:LEU:O	8:5I:7:LYS:HE2	1.95	0.65
10:8A:774:CYS:CB	10:8A:782:ILE:HD12	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I4:254:ALA:O	1:I4:255:SER:OG	2.13	0.65
1:KO:305:GLU:HB2	1:KO:306:PRO:CD	2.26	0.65
1:S9:252:VAL:HG11	2:C8:3:VAL:HG13	1.78	0.65
8:5A:131:ALA:HA	8:5B:50:TRP:CD1	2.31	0.65
1:A5:126:VAL:N	5:1B:38:ARG:NH1	2.42	0.65
1:J4:185:ASP:OD1	1:RO:344:ARG:NH1	2.29	0.65
1:BP:347:LEU:HB3	5:1L:162:GLY:H	1.60	0.65
1:K9:305:GLU:HB2	1:K9:306:PRO:CD	2.26	0.65
8:5S:31:ARG:NH1	8:5X:111:ASP:OD2	2.29	0.65
8:5V:55:GLY:HA2	8:5U:106:MET:HE2	1.79	0.65
9:7A:235:GLY:O	10:8B:951:ARG:NH1	2.29	0.65
1:L4:289:LYS:HD2	2:A2:7:HIS:CE1	2.31	0.65
1:I4:252:VAL:HG11	2:D2:3:VAL:HG13	1.77	0.65
1:WE:254:ALA:O	1:WE:255:SER:OG	2.14	0.65
1:UO:253:ASN:OD1	1:UO:253:ASN:O	2.15	0.65
1:RJ:104:PRO:HB3	1:QJ:133:SER:HB2	1.78	0.65
1:IE:256:ASP:HA	1:IE:259:VAL:HG12	1.79	0.65
1:I9:252:VAL:HG11	2:D7:3:VAL:HG13	1.77	0.65
1:I9:288:MET:HE3	1:I9:297:TRP:HE1	1.62	0.65
4:2K:195:GLY:HA2	5:1K:253:GLN:HE22	1.61	0.65
6:4F:58:LYS:NZ	8:5E:27:LEU:CD1	2.59	0.65
8:5Q:44:LEU:O	8:5V:7:LYS:CE	2.45	0.65
8:5Q:44:LEU:CB	8:5U:116:HIS:HA	2.26	0.65
10:8C:951:ARG:NH1	9:7B:235:GLY:O	2.30	0.65
1:A5:124:ALA:O	5:1B:38:ARG:CZ	2.45	0.65
1:E4:149:SER:HB3	1:E4:152:ALA:HB2	1.78	0.65
1:BP:192:THR:CG2	5:1L:41:TRP:CE3	2.80	0.65
1:WO:254:ALA:O	1:WO:255:SER:OG	2.14	0.65
1:JJ:185:ASP:OD1	1:RE:344:ARG:NH1	2.29	0.65
8:5M:44:LEU:N	8:5W:116:HIS:HB2	2.11	0.65
8:5R:134:PHE:CE2	8:5Q:80:ARG:NE	2.64	0.65
8:5W:28:ARG:NH1	8:5W:119:GLU:OE2	2.30	0.65
4:2H:119:LEU:HD12	4:2H:120:GLY:N	2.12	0.65
8:5D:27:LEU:HD11	8:5D:30:THR:CG2	2.27	0.65
10:8C:774:CYS:CB	10:8C:782:ILE:HD12	2.26	0.65
1:C5:175:MET:CE	1:B5:155:SER:HA	2.27	0.65
1:U4:253:ASN:O	1:U4:253:ASN:OD1	2.15	0.65
1:IJ:256:ASP:HA	1:IJ:259:VAL:HG12	1.79	0.65
1:IE:254:ALA:O	1:IE:255:SER:OG	2.13	0.65
1:CA:175:MET:CE	1:BA:155:SER:HA	2.27	0.65
8:5A:34:PHE:HB3	8:5F:83:PHE:CE2	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5S:116:HIS:HE1	8:5O:42:THR:CG2	2.09	0.65
8:5G:28:ARG:NH1	8:5G:119:GLU:OE2	2.30	0.65
8:5Q:44:LEU:HG	8:5V:7:LYS:HA	1.76	0.65
8:5J:28:ARG:NH1	8:5J:119:GLU:OE2	2.30	0.65
8:5P:28:ARG:NH1	8:5P:119:GLU:OE2	2.30	0.65
8:5U:44:LEU:CG	8:5Z:7:LYS:CA	2.75	0.65
8:5T:28:ARG:NH1	8:5T:119:GLU:OE2	2.30	0.65
8:5Y:28:ARG:NH1	8:5Y:119:GLU:OE2	2.30	0.65
8:52:106:MET:CE	8:53:53:LEU:HB3	2.27	0.65
10:8B:774:CYS:CB	10:8B:782:ILE:HD12	2.26	0.65
1:A5:141:THR:HG22	1:A5:142:ASP:N	2.11	0.65
1:AP:141:THR:HG22	1:AP:142:ASP:N	2.11	0.65
1:L9:289:LYS:HD2	2:A7:7:HIS:CE1	2.31	0.65
4:2A:191:ARG:NH1	5:1L:265:GLU:OE2	2.29	0.65
8:5S:28:ARG:NH1	8:5S:119:GLU:OE2	2.30	0.65
4:2G:30:ALA:HA	7:3C:67:PRO:HB3	1.78	0.65
8:5P:42:THR:O	8:5T:116:HIS:CG	2.50	0.65
8:5Y:106:MET:CE	8:5Z:53:LEU:HB3	2.27	0.65
9:7B:195:TRP:HD1	9:7B:196:PHE:HD1	1.43	0.65
11:6C:184:ASP:HB2	11:6C:204:PRO:HG2	1.78	0.65
1:SJ:252:VAL:HG11	2:CI:3:VAL:HG13	1.79	0.64
1:LJ:289:LYS:HD2	2:AH:7:HIS:CE1	2.31	0.64
1:EE:149:SER:HB3	1:EE:152:ALA:HB2	1.78	0.64
4:2J:119:LEU:HD12	4:2J:120:GLY:N	2.12	0.64
4:2G:195:GLY:HA2	5:1G:253:GLN:HE22	1.61	0.64
8:5C:27:LEU:HD11	8:5C:30:THR:CG2	2.27	0.64
8:5O:28:ARG:NH1	8:5O:119:GLU:OE2	2.30	0.64
8:5B:27:LEU:HD11	8:5B:30:THR:CG2	2.27	0.64
11:6A:34:GLU:HG2	11:6F:208:VAL:HG11	1.79	0.64
11:6D:21:GLU:HG2	11:6D:44:ARG:HB2	1.77	0.64
8:50:70:PHE:HE1	8:51:98:PHE:CZ	2.14	0.64
1:I4:256:ASP:HA	1:I4:259:VAL:HG12	1.79	0.64
1:IE:288:MET:HE3	1:IE:297:TRP:HE1	1.62	0.64
8:5X:28:ARG:NH1	8:5X:119:GLU:OE2	2.30	0.64
6:4E:58:LYS:NZ	8:5D:27:LEU:CD1	2.61	0.64
8:5U:44:LEU:CG	8:5Z:7:LYS:C	2.67	0.64
10:8C:919:ARG:HH12	9:7B:232:GLN:HE22	1.45	0.64
8:50:106:MET:CE	8:51:53:LEU:HB3	2.27	0.64
1:S4:252:VAL:HG11	2:C3:3:VAL:HG13	1.78	0.64
1:ZO:150:GLU:HG2	1:ZO:154:LEU:HD23	1.80	0.64
1:QO:171:GLU:HG3	1:PO:148:ALA:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UJ:253:ASN:OD1	1:UJ:253:ASN:O	2.15	0.64
1:D9:133:SER:HB2	1:E9:104:PRO:HB3	1.80	0.64
7:3A:62:VAL:HG21	7:3A:95:ARG:HH11	1.62	0.64
8:5R:28:ARG:NH1	8:5R:119:GLU:OE2	2.30	0.64
8:5E:50:TRP:CE2	8:5D:132:LEU:HB2	2.33	0.64
8:5J:42:THR:HG23	8:5N:116:HIS:CE1	2.32	0.64
8:5C:35:ASN:O	8:5B:83:PHE:HZ	1.78	0.64
8:5N:28:ARG:NH1	8:5N:119:GLU:OE2	2.30	0.64
9:7A:195:TRP:HD1	9:7A:196:PHE:HD1	1.43	0.64
1:DO:133:SER:HB2	1:EO:104:PRO:HB3	1.80	0.64
1:AF:141:THR:HG22	1:AF:142:ASP:N	2.11	0.64
1:JE:185:ASP:OD1	1:R9:344:ARG:NH1	2.29	0.64
1:Z9:150:GLU:HG2	1:Z9:154:LEU:HD23	1.80	0.64
1:R9:115:ARG:HH12	1:Q9:142:ASP:HB3	1.63	0.64
8:5A:27:LEU:HD11	8:5A:30:THR:CG2	2.27	0.64
8:5A:38:THR:HG22	8:5F:106:MET:SD	2.37	0.64
8:5S:110:ILE:HG13	8:5T:34:PHE:CD2	2.33	0.64
7:3F:62:VAL:HG21	7:3F:95:ARG:HH11	1.62	0.64
8:5Q:28:ARG:NH1	8:5Q:119:GLU:OE2	2.30	0.64
4:2E:192:VAL:O	5:1D:252:HIS:NE2	2.29	0.64
7:3C:62:VAL:HG21	7:3C:95:ARG:HH11	1.62	0.64
8:5Z:28:ARG:NH1	8:5Z:119:GLU:OE2	2.30	0.64
8:52:28:ARG:NH1	8:52:119:GLU:OE2	2.30	0.64
8:53:28:ARG:NH1	8:53:119:GLU:OE2	2.30	0.64
1:Z4:150:GLU:HG2	1:Z4:154:LEU:HD23	1.80	0.64
1:R4:344:ARG:NH1	1:J9:185:ASP:OD1	2.29	0.64
1:CP:175:MET:CE	1:BP:155:SER:HA	2.27	0.64
1:RO:115:ARG:HH12	1:QO:142:ASP:HB3	1.63	0.64
8:5L:28:ARG:NH1	8:5L:119:GLU:OE2	2.30	0.64
8:5I:28:ARG:NH1	8:5I:119:GLU:OE2	2.30	0.64
11:6F:34:GLU:OE2	11:6E:182:ARG:NH2	2.31	0.64
1:R4:115:ARG:HH12	1:Q4:142:ASP:HB3	1.63	0.64
1:Q4:171:GLU:HG3	1:P4:148:ALA:HB3	1.80	0.64
1:D4:133:SER:HB2	1:E4:104:PRO:HB3	1.80	0.64
1:NJ:367:ARG:HH22	1:LJ:181:ARG:HG3	1.60	0.64
1:RJ:115:ARG:HH12	1:QJ:142:ASP:HB3	1.63	0.64
1:KJ:167:ILE:HD12	1:KJ:370:GLY:HA2	1.80	0.64
1:RE:215:GLY:HA2	1:RE:220:THR:HG22	1.80	0.64
8:5M:28:ARG:NH1	8:5M:119:GLU:OE2	2.30	0.64
8:5U:44:LEU:CG	8:5Z:7:LYS:HA	2.27	0.64
8:5H:28:ARG:NH1	8:5H:119:GLU:OE2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I4:288:MET:HE3	1:I4:297:TRP:HE1	1.62	0.64
1:KO:167:ILE:HD12	1:KO:370:GLY:HA2	1.80	0.64
1:ZJ:150:GLU:HG2	1:ZJ:154:LEU:HD23	1.80	0.64
1:RJ:215:GLY:HA2	1:RJ:220:THR:HG22	1.80	0.64
1:CF:175:MET:CE	1:BF:155:SER:HA	2.27	0.64
1:ZE:150:GLU:HG2	1:ZE:154:LEU:HD23	1.80	0.64
1:QE:171:GLU:HG3	1:PE:148:ALA:HB3	1.80	0.64
1:AA:130:GLU:OE1	5:1D:44:ARG:HG3	1.91	0.64
1:I9:254:ALA:O	1:I9:255:SER:OG	2.13	0.64
8:5S:54:LEU:HD11	8:5Y:4:GLN:C	2.22	0.64
8:5X:98:PHE:HZ	8:5W:76:ASP:C	2.06	0.64
4:2F:119:LEU:HD12	4:2F:120:GLY:N	2.12	0.64
11:6A:184:ASP:HB2	11:6A:204:PRO:HG2	1.78	0.64
1:V4:181:ARG:HG3	1:CP:367:ARG:HH12	1.63	0.64
7:3D:62:VAL:HG21	7:3D:95:ARG:HH11	1.62	0.64
1:K4:167:ILE:HD12	1:K4:370:GLY:HA2	1.80	0.64
1:AP:164:ARG:CB	4:2J:121:ALA:HB2	2.25	0.64
1:SO:252:VAL:HG11	2:CN:3:VAL:HG13	1.79	0.64
1:AK:349:VAL:HG11	5:1H:162:GLY:N	2.12	0.64
8:5X:50:TRP:HZ2	8:5V:84:PHE:CG	2.10	0.64
8:5V:28:ARG:NH1	8:5V:119:GLU:OE2	2.30	0.64
4:2D:119:LEU:HD12	4:2D:120:GLY:N	2.12	0.64
1:Z4:139:ASP:HA	1:Z4:162:ILE:HA	1.80	0.64
1:A4:252:VAL:CG1	2:A6:3:VAL:HG13	2.27	0.64
1:IO:256:ASP:HA	1:IO:259:VAL:HG12	1.79	0.64
1:DJ:133:SER:HB2	1:EJ:104:PRO:HB3	1.80	0.64
1:CE:352:ASP:HB3	1:B9:354:PHE:HD1	1.63	0.64
8:5C:34:PHE:HB3	8:5B:83:PHE:CE2	2.33	0.64
8:5U:28:ARG:NH1	8:5U:119:GLU:OE2	2.30	0.64
10:8A:951:ARG:NH1	9:7C:235:GLY:O	2.32	0.64
9:7B:18:LEU:O	11:6C:37:ASN:ND2	2.24	0.64
1:BK:362:PHE:HE1	5:1J:44:ARG:HH12	0.69	0.63
1:KE:305:GLU:HB2	1:KE:306:PRO:CD	2.26	0.63
8:5A:53:LEU:HD23	8:5F:129:ALA:HA	1.79	0.63
7:3E:62:VAL:HG21	7:3E:95:ARG:HH11	1.62	0.63
8:5E:27:LEU:HD11	8:5E:30:THR:CG2	2.27	0.63
7:3B:62:VAL:HG21	7:3B:95:ARG:HH11	1.62	0.63
8:50:28:ARG:NH1	8:50:119:GLU:OE2	2.30	0.63
8:51:28:ARG:NH1	8:51:119:GLU:OE2	2.30	0.63
1:IJ:288:MET:HE3	1:IJ:297:TRP:HE1	1.62	0.63
1:DE:133:SER:HB2	1:EE:104:PRO:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R9:104:PRO:HB3	1:Q9:133:SER:HB2	1.78	0.63
1:Q9:171:GLU:HG3	1:P9:148:ALA:HB3	1.80	0.63
8:5F:34:PHE:HB3	8:5E:83:PHE:CE2	2.33	0.63
8:5F:38:THR:HG22	8:5E:106:MET:SD	2.38	0.63
8:5K:28:ARG:NH1	8:5K:119:GLU:OE2	2.30	0.63
8:5Q:44:LEU:HG	8:5V:7:LYS:HG2	1.79	0.63
5:1F:249:GLU:HG3	4:2F:196:ARG:HG2	1.81	0.63
8:5C:50:TRP:CG	8:5B:131:ALA:HA	2.33	0.63
8:5O:44:LEU:CG	8:5T:7:LYS:HA	2.27	0.63
8:5O:51:ARG:NH1	8:5N:61:SER:OG	2.31	0.63
10:8A:859:ALA:O	9:7C:140:GLN:NE2	2.30	0.63
1:Z4:219:PRO:HG3	1:Z4:369:GLY:HA2	1.80	0.63
1:IO:288:MET:HE3	1:IO:297:TRP:HE1	1.62	0.63
1:CK:175:MET:CE	1:BK:155:SER:HA	2.27	0.63
1:YE:367:ARG:HH22	1:WE:181:ARG:HG3	1.64	0.63
5:1B:50:MET:HG2	5:1B:116:LEU:HD12	1.81	0.63
8:5S:33:SER:HA	8:5X:111:ASP:CB	2.28	0.63
8:5M:7:LYS:HA	8:5H:44:LEU:HD11	1.79	0.63
8:5F:27:LEU:HD11	8:5F:30:THR:CG2	2.27	0.63
8:5X:44:LEU:CB	8:5I:116:HIS:HA	2.28	0.63
7:3D:88:ARG:HH21	7:3D:107:ARG:HG3	1.63	0.63
5:1D:50:MET:HG2	5:1D:116:LEU:HD12	1.81	0.63
9:7A:18:LEU:O	11:6A:37:ASN:ND2	2.24	0.63
11:6B:10:ALA:C	8:5Z:45:GLU:OE2	2.42	0.63
11:6D:10:ALA:C	8:5I:45:GLU:OE2	2.41	0.63
11:6D:34:GLU:OE2	11:6C:182:ARG:NH2	2.31	0.63
1:Y4:150:GLU:HB2	1:CP:181:ARG:HH21	1.63	0.63
1:S4:150:GLU:HG3	1:S4:151:THR:HG23	1.81	0.63
1:U9:253:ASN:OD1	1:U9:253:ASN:O	2.15	0.63
4:2B:70:TRP:NE1	4:2B:126:ILE:HD11	2.14	0.63
5:1L:50:MET:HG2	5:1L:116:LEU:HD12	1.81	0.63
4:2L:119:LEU:HD12	4:2L:120:GLY:N	2.12	0.63
5:1I:324:ARG:HH22	5:1H:360:PRO:HB2	1.63	0.63
7:3D:8:ARG:NH2	7:3C:94:GLU:OE1	2.31	0.63
9:7C:18:LEU:O	11:6E:37:ASN:ND2	2.24	0.63
9:7C:100:LEU:HB2	9:7C:112:ILE:HD11	1.78	0.63
1:YJ:367:ARG:HH22	1:WJ:181:ARG:HG3	1.64	0.63
1:SE:150:GLU:HG3	1:SE:151:THR:HG23	1.81	0.63
8:5M:60:ARG:HG3	8:5N:50:TRP:CE3	2.33	0.63
5:1K:185:THR:O	5:1J:139:ARG:NH2	2.32	0.63
8:5P:51:ARG:NH1	8:5O:61:SER:OG	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:6B:34:GLU:OE2	11:6A:182:ARG:NH2	2.31	0.63
8:52:106:MET:HE3	8:53:53:LEU:CB	2.29	0.63
1:ZJ:139:ASP:HA	1:ZJ:162:ILE:HA	1.80	0.63
1:CJ:352:ASP:HB3	1:BE:354:PHE:HD1	1.64	0.63
1:KE:167:ILE:HD12	1:KE:370:GLY:HA2	1.80	0.63
7:3B:88:ARG:HH21	7:3B:107:ARG:HG3	1.63	0.63
1:BP:190:ILE:C	5:1L:44:ARG:NH2	2.56	0.63
1:QJ:286:ARG:NH1	1:PJ:263:TYR:OH	2.32	0.63
5:1H:249:GLU:HG3	4:2H:196:ARG:HG2	1.80	0.63
8:5P:42:THR:O	8:5T:116:HIS:ND1	2.31	0.63
8:5C:50:TRP:CZ2	8:5B:132:LEU:HB2	2.34	0.63
8:5Y:106:MET:HE3	8:5Z:53:LEU:CG	2.29	0.63
1:B4:354:PHE:HD1	1:C9:352:ASP:HB3	1.64	0.63
1:BP:193:TRP:CB	5:1L:44:ARG:HH12	2.12	0.63
1:YE:150:GLU:HB2	1:CA:181:ARG:HH21	1.64	0.63
1:ZE:139:ASP:HA	1:ZE:162:ILE:HA	1.81	0.63
1:UE:253:ASN:O	1:UE:253:ASN:OD1	2.15	0.63
1:TE:275:PHE:HB2	1:TE:314:VAL:HG22	1.81	0.63
1:Q9:286:ARG:NH1	1:P9:263:TYR:OH	2.32	0.63
5:1L:249:GLU:HG3	4:2L:196:ARG:HG2	1.80	0.63
8:5F:60:ARG:NH2	8:5E:83:PHE:O	2.31	0.63
8:5L:44:LEU:CD1	8:5Q:7:LYS:HA	2.28	0.63
7:3E:88:ARG:HH21	7:3E:107:ARG:HG3	1.63	0.63
8:5V:44:LEU:HD22	8:50:10:LEU:HD21	1.80	0.63
4:2E:177:PRO:HD2	4:2D:161:GLN:HE22	1.62	0.63
5:1D:249:GLU:HG3	4:2D:196:ARG:HG2	1.81	0.63
11:6C:10:ALA:C	8:50:45:GLU:OE2	2.42	0.63
1:Y4:367:ARG:HH22	1:W4:181:ARG:HG3	1.64	0.63
1:R4:215:GLY:HA2	1:R4:220:THR:HG22	1.80	0.63
1:QO:286:ARG:NH1	1:PO:263:TYR:OH	2.32	0.63
1:VO:181:ARG:HG3	1:CK:367:ARG:HH12	1.64	0.63
1:CO:352:ASP:HB3	1:BJ:354:PHE:HD1	1.63	0.63
1:Y9:367:ARG:HH22	1:W9:181:ARG:HG3	1.64	0.63
5:1K:50:MET:HG2	5:1K:116:LEU:HD12	1.81	0.63
5:1K:324:ARG:HH22	5:1J:360:PRO:HB2	1.63	0.63
5:1J:50:MET:HG2	5:1J:116:LEU:HD12	1.81	0.63
8:5Q:34:PHE:O	8:5P:109:SER:HB2	1.99	0.63
4:2H:3:LEU:HD22	4:2H:79:PRO:HG3	1.81	0.63
9:7A:196:PHE:HB3	9:7A:248:PRO:HA	1.81	0.63
9:7B:196:PHE:HB3	9:7B:248:PRO:HA	1.81	0.63
8:50:106:MET:HE3	8:51:53:LEU:CB	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:121:ARG:O	5:1B:38:ARG:NH2	2.32	0.62
1:YO:150:GLU:HB2	1:CK:181:ARG:HH21	1.64	0.62
1:ZO:139:ASP:HA	1:ZO:162:ILE:HA	1.80	0.62
1:ZJ:219:PRO:HG3	1:ZJ:369:GLY:HA2	1.80	0.62
1:QJ:171:GLU:HG3	1:PJ:148:ALA:HB3	1.80	0.62
4:2J:3:LEU:HD22	4:2J:79:PRO:HG3	1.81	0.62
4:2F:3:LEU:HD22	4:2F:79:PRO:HG3	1.81	0.62
7:3C:88:ARG:HH21	7:3C:107:ARG:HG3	1.63	0.62
9:7A:232:GLN:HE22	10:8B:919:ARG:HH12	1.46	0.62
1:CK:219:PRO:HG3	1:CK:369:GLY:HA2	1.81	0.62
1:YJ:150:GLU:HB2	1:CF:181:ARG:HH21	1.64	0.62
1:TJ:275:PHE:HB2	1:TJ:314:VAL:HG22	1.81	0.62
1:BF:196:ASN:CB	5:1G:162:GLY:CA	2.77	0.62
1:R9:215:GLY:HA2	1:R9:220:THR:HG22	1.80	0.62
8:5A:132:LEU:HB2	8:5B:50:TRP:CZ2	2.35	0.62
4:2L:70:TRP:NE1	4:2L:126:ILE:HD11	2.14	0.62
5:1H:50:MET:HG2	5:1H:116:LEU:HD12	1.81	0.62
6:4D:58:LYS:NZ	8:5C:27:LEU:CD1	2.62	0.62
4:2E:30:ALA:HA	7:3B:67:PRO:HB3	1.80	0.62
4:2D:70:TRP:NE1	4:2D:126:ILE:HD11	2.14	0.62
1:CP:219:PRO:HG3	1:CP:369:GLY:HA2	1.81	0.62
1:NO:182:LEU:HB2	1:FO:92:SER:CB	2.29	0.62
1:CA:219:PRO:HG3	1:CA:369:GLY:HA2	1.81	0.62
1:K9:167:ILE:HD12	1:K9:370:GLY:HA2	1.80	0.62
8:5R:44:LEU:CB	8:5V:116:HIS:HA	2.28	0.62
8:5K:9:LEU:HB3	8:5K:96:PRO:HD3	1.81	0.62
4:2H:68:THR:O	4:2H:126:ILE:HD13	1.99	0.62
5:1E:50:MET:HG2	5:1E:116:LEU:HD12	1.81	0.62
5:1F:50:MET:HG2	5:1F:116:LEU:HD12	1.81	0.62
8:5Y:106:MET:HE3	8:5Z:53:LEU:CB	2.29	0.62
8:50:9:LEU:HB3	8:50:96:PRO:HD3	1.81	0.62
1:AK:219:PRO:HG3	1:AK:368:VAL:O	2.00	0.62
1:NJ:182:LEU:HB2	1:FJ:92:SER:CB	2.29	0.62
1:ZE:219:PRO:HG3	1:ZE:369:GLY:HA2	1.80	0.62
1:AA:219:PRO:HG3	1:AA:368:VAL:O	2.00	0.62
1:T9:275:PHE:HB2	1:T9:314:VAL:HG22	1.81	0.62
1:I9:256:ASP:HA	1:I9:259:VAL:HG12	1.79	0.62
5:1A:50:MET:HG2	5:1A:116:LEU:HD12	1.81	0.62
8:5A:60:ARG:NH2	8:5F:83:PHE:O	2.32	0.62
8:5S:28:ARG:NH1	8:5N:41:VAL:HA	2.13	0.62
1:J4:184:ASP:OD2	1:RO:348:ARG:NH2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:265:LEU:HD23	1:AO:379:LYS:HG2	1.82	0.62
1:AJ:265:LEU:HD23	1:AJ:379:LYS:HG2	1.82	0.62
1:NE:133:SER:HB2	1:OE:104:PRO:HB3	1.82	0.62
1:QE:286:ARG:NH1	1:PE:263:TYR:OH	2.32	0.62
1:Z9:139:ASP:HA	1:Z9:162:ILE:HA	1.80	0.62
4:2B:92:VAL:HG12	4:2B:93:ASP:N	2.14	0.62
4:2L:3:LEU:HD22	4:2L:79:PRO:HG3	1.81	0.62
8:5X:97:ASP:HB3	8:5W:72:ASP:CB	2.24	0.62
5:1G:50:MET:HG2	5:1G:116:LEU:HD12	1.81	0.62
4:2F:193:LEU:HD21	4:2F:197:PRO:O	2.00	0.62
8:5U:34:PHE:O	8:5T:109:SER:HB2	1.98	0.62
4:2D:3:LEU:HD22	4:2D:79:PRO:HG3	1.81	0.62
8:51:9:LEU:HB3	8:51:96:PRO:HD3	1.81	0.62
1:C5:367:ARG:HH12	1:V9:181:ARG:HG3	1.64	0.62
1:T4:275:PHE:HB2	1:T4:314:VAL:HG22	1.81	0.62
1:SO:150:GLU:HG3	1:SO:151:THR:HG23	1.81	0.62
1:AK:149:SER:HB3	1:AK:152:ALA:HB2	1.81	0.62
1:A9:265:LEU:HD23	1:A9:379:LYS:HG2	1.82	0.62
4:2B:25:LEU:HD23	7:3A:72:ARG:HH22	1.65	0.62
4:2B:64:ARG:HD3	4:2B:133:GLU:OE1	2.00	0.62
4:2B:68:THR:O	4:2B:126:ILE:HD13	1.99	0.62
8:5R:9:LEU:HB3	8:5R:96:PRO:HD3	1.82	0.62
5:1I:50:MET:HG2	5:1I:116:LEU:HD12	1.81	0.62
8:5Q:9:LEU:HB3	8:5Q:96:PRO:HD3	1.82	0.62
5:1C:265:GLU:OE2	4:2D:191:ARG:NH1	2.33	0.62
4:2D:64:ARG:HD3	4:2D:133:GLU:OE1	2.00	0.62
10:8C:784:VAL:O	10:8C:784:VAL:HG12	2.00	0.62
11:6F:10:ALA:C	8:53:45:GLU:OE2	2.42	0.62
11:6E:34:GLU:HG2	11:6D:208:VAL:HG11	1.82	0.62
8:51:39:VAL:HG21	8:51:57:ALA:HB3	1.82	0.62
1:RO:215:GLY:HA2	1:RO:220:THR:HG22	1.80	0.62
1:AF:149:SER:HB3	1:AF:152:ALA:HB2	1.81	0.62
5:1B:249:GLU:HG3	4:2B:196:ARG:HG2	1.81	0.62
4:2B:163:TYR:O	4:2B:166:ARG:NH1	2.33	0.62
8:5S:41:VAL:HG11	8:5Y:3:ALA:CB	2.30	0.62
4:2K:9:VAL:HG13	4:2K:61:ARG:HD3	1.82	0.62
4:2L:68:THR:O	4:2L:126:ILE:HD13	1.99	0.62
4:2I:9:VAL:HG13	4:2I:61:ARG:HD3	1.82	0.62
4:2J:70:TRP:NE1	4:2J:126:ILE:HD11	2.14	0.62
8:5W:44:LEU:HD11	8:51:7:LYS:HA	1.80	0.62
8:5U:9:LEU:HB3	8:5U:96:PRO:HD3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1C:50:MET:HG2	5:1C:116:LEU:HD12	1.82	0.62
4:2D:68:THR:O	4:2D:126:ILE:HD13	1.99	0.62
8:5T:57:ALA:HA	8:5Z:5:ASN:CG	2.25	0.62
11:6B:208:VAL:HG11	11:6C:34:GLU:HG2	1.82	0.62
11:6A:10:ALA:C	8:5Y:45:GLU:OE2	2.42	0.62
11:6E:10:ALA:C	8:52:45:GLU:OE2	2.42	0.62
1:A5:219:PRO:HG3	1:A5:368:VAL:O	2.00	0.62
1:U9:145:SER:HB3	1:V9:172:LEU:HD11	1.82	0.62
5:1B:180:LYS:O	5:1B:333:ARG:NH2	2.33	0.62
4:2B:3:LEU:HD22	4:2B:79:PRO:HG3	1.81	0.62
8:5F:53:LEU:HD23	8:5E:129:ALA:HA	1.80	0.62
8:5X:9:LEU:HB3	8:5X:96:PRO:HD3	1.82	0.62
8:5R:51:ARG:HB2	8:5Q:59:VAL:HG22	1.81	0.62
5:1J:249:GLU:HG3	4:2J:196:ARG:HG2	1.81	0.62
4:2J:68:THR:O	4:2J:126:ILE:HD13	1.99	0.62
4:2H:70:TRP:NE1	4:2H:126:ILE:HD11	2.14	0.62
4:2H:193:LEU:HD21	4:2H:197:PRO:O	2.00	0.62
8:5D:28:ARG:O	8:5C:116:HIS:N	2.33	0.62
5:1F:180:LYS:O	5:1F:333:ARG:NH2	2.33	0.62
4:2F:64:ARG:HD3	4:2F:133:GLU:OE1	2.00	0.62
4:2F:68:THR:O	4:2F:126:ILE:HD13	1.99	0.62
4:2F:70:TRP:NE1	4:2F:126:ILE:HD11	2.14	0.62
8:5U:39:VAL:HG21	8:5U:57:ALA:HB3	1.82	0.62
4:2D:193:LEU:HD21	4:2D:197:PRO:O	2.00	0.62
8:5T:39:VAL:HG21	8:5T:57:ALA:HB3	1.82	0.62
9:7A:178:ASP:HB3	9:7A:182:VAL:CG2	2.29	0.62
11:6B:184:ASP:HB2	11:6B:204:PRO:HG2	1.82	0.62
8:50:39:VAL:HG21	8:50:57:ALA:HB3	1.82	0.62
1:A5:149:SER:HB3	1:A5:152:ALA:HB2	1.81	0.62
1:Q4:286:ARG:NH1	1:P4:263:TYR:OH	2.32	0.62
1:S4:256:ASP:HA	1:S4:259:VAL:HG12	1.82	0.62
1:L4:265:LEU:HD23	1:L4:379:LYS:HG2	1.82	0.62
1:A4:265:LEU:HD23	1:A4:379:LYS:HG2	1.82	0.62
1:G4:147:TRP:HZ2	1:B4:209:ALA:HB2	1.65	0.62
1:AP:170:HIS:CE1	4:2I:125:MET:CE	2.82	0.62
1:TO:219:PRO:HG3	1:TO:369:GLY:HA2	1.82	0.62
1:KJ:265:LEU:HD23	1:KJ:379:LYS:HG2	1.82	0.62
1:AE:265:LEU:HD23	1:AE:379:LYS:HG2	1.82	0.62
8:5L:9:LEU:HB3	8:5L:96:PRO:HD3	1.81	0.62
8:5R:116:HIS:CE1	8:5H:42:THR:HG23	2.35	0.62
5:1I:265:GLU:OE2	4:2J:191:ARG:NH1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5W:34:PHE:O	8:5V:109:SER:CB	2.48	0.62
4:2G:177:PRO:HD2	4:2F:161:GLN:HE22	1.64	0.62
4:2H:64:ARG:HD3	4:2H:133:GLU:OE1	2.00	0.62
8:5U:54:LEU:HG	8:50:3:ALA:HB3	1.79	0.62
4:2D:163:TYR:O	4:2D:166:ARG:NH1	2.33	0.62
8:5H:9:LEU:HB3	8:5H:96:PRO:HD3	1.81	0.62
8:5Z:39:VAL:HG21	8:5Z:57:ALA:HB3	1.82	0.62
9:7B:178:ASP:HB3	9:7B:182:VAL:CG2	2.29	0.62
9:7B:258:ARG:NH1	10:8B:168:GLU:O	2.33	0.62
1:TO:275:PHE:HB2	1:TO:314:VAL:HG22	1.81	0.62
1:LO:265:LEU:HD23	1:LO:379:LYS:HG2	1.82	0.62
1:Z9:219:PRO:HG3	1:Z9:369:GLY:HA2	1.80	0.62
4:2L:92:VAL:HG12	4:2L:93:ASP:N	2.14	0.62
4:2D:92:VAL:HG12	4:2D:93:ASP:N	2.14	0.62
1:P4:219:PRO:HG3	1:P4:369:GLY:HA2	1.82	0.61
1:G4:139:ASP:HA	1:G4:162:ILE:HA	1.82	0.61
1:AP:126:VAL:HG21	5:1K:162:GLY:HA2	1.68	0.61
1:AP:164:ARG:HB3	4:2J:121:ALA:CB	2.27	0.61
1:UJ:145:SER:HB3	1:VJ:172:LEU:HD11	1.82	0.61
1:LJ:149:SER:HB2	1:LJ:152:ALA:HB2	1.82	0.61
2:AG:3:VAL:HG13	1:AE:252:VAL:CG1	2.28	0.61
1:TE:219:PRO:HG3	1:TE:369:GLY:HA2	1.82	0.61
1:KE:102:VAL:HB	1:JE:132:THR:HG21	1.82	0.61
1:T9:219:PRO:HG3	1:T9:369:GLY:HA2	1.82	0.61
1:L9:265:LEU:HD23	1:L9:379:LYS:HG2	1.82	0.61
1:G9:147:TRP:HZ2	1:B9:209:ALA:HB2	1.65	0.61
8:5M:28:ARG:HH12	8:5H:41:VAL:HA	1.65	0.61
5:1L:180:LYS:O	5:1L:333:ARG:NH2	2.33	0.61
4:2I:177:PRO:HD2	4:2H:161:GLN:HE22	1.64	0.61
7:3E:8:ARG:NH2	7:3D:94:GLU:OE1	2.33	0.61
4:2H:89:LEU:HD21	4:2H:116:ILE:CD1	2.30	0.61
8:5N:39:VAL:HG21	8:5N:57:ALA:HB3	1.82	0.61
11:6F:184:ASP:HB2	11:6F:204:PRO:HG2	1.82	0.61
8:52:9:LEU:HB3	8:52:96:PRO:HD3	1.81	0.61
10:8B:132:VAL:HG22	10:8B:198:PHE:CD1	2.35	0.61
1:Z4:133:SER:HB2	1:A5:104:PRO:HB3	1.82	0.61
1:ZO:133:SER:HB2	1:AP:104:PRO:HB3	1.82	0.61
1:SO:256:ASP:HA	1:SO:259:VAL:HG12	1.82	0.61
1:ZJ:167:ILE:HD12	1:ZJ:370:GLY:HA2	1.83	0.61
1:SJ:150:GLU:HG3	1:SJ:151:THR:HG23	1.81	0.61
1:KJ:102:VAL:HB	1:JJ:132:THR:HG21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NE:182:LEU:HB2	1:FE:92:SER:CB	2.29	0.61
1:RE:115:ARG:HH12	1:QE:142:ASP:HB3	1.63	0.61
1:LE:149:SER:HB2	1:LE:152:ALA:HB2	1.82	0.61
1:GE:139:ASP:HA	1:GE:162:ILE:HA	1.82	0.61
1:Z9:133:SER:HB2	1:AA:104:PRO:HB3	1.82	0.61
1:K9:305:GLU:CB	1:K9:306:PRO:HD3	2.28	0.61
4:2A:30:ALA:HA	7:3F:67:PRO:HB3	1.82	0.61
7:3A:88:ARG:HH21	7:3A:107:ARG:HG3	1.63	0.61
8:5G:39:VAL:HG21	8:5G:57:ALA:HB3	1.82	0.61
4:2L:25:LEU:HD23	7:3F:72:ARG:HH22	1.65	0.61
4:2L:64:ARG:HD3	4:2L:133:GLU:OE1	2.00	0.61
4:2J:64:ARG:HD3	4:2J:133:GLU:OE1	2.00	0.61
8:5O:9:LEU:HB3	8:5O:96:PRO:HD3	1.82	0.61
5:1D:180:LYS:O	5:1D:333:ARG:NH2	2.33	0.61
4:2D:25:LEU:HD23	7:3B:72:ARG:HH22	1.65	0.61
8:5H:39:VAL:HG21	8:5H:57:ALA:HB3	1.82	0.61
8:5Z:9:LEU:HB3	8:5Z:96:PRO:HD3	1.81	0.61
10:8C:132:VAL:HG22	10:8C:198:PHE:CD1	2.35	0.61
11:6F:184:ASP:N	11:6F:204:PRO:O	2.30	0.61
8:52:106:MET:HE3	8:53:53:LEU:CG	2.29	0.61
8:50:106:MET:HE3	8:51:53:LEU:CG	2.29	0.61
1:C5:219:PRO:HG3	1:C5:369:GLY:HA2	1.81	0.61
1:A5:168:PRO:CA	4:2L:121:ALA:CB	2.64	0.61
1:YO:367:ARG:HH22	1:WO:181:ARG:HG3	1.64	0.61
1:ZO:219:PRO:HG3	1:ZO:369:GLY:HA2	1.80	0.61
1:AP:149:SER:HB3	1:AP:152:ALA:HB2	1.81	0.61
1:NO:286:ARG:NH1	1:MO:263:TYR:OH	2.34	0.61
1:NJ:286:ARG:NH1	1:MJ:263:TYR:OH	2.34	0.61
1:KJ:305:GLU:HB2	1:KJ:306:PRO:CD	2.26	0.61
1:VJ:181:ARG:HG3	1:CF:367:ARG:HH12	1.64	0.61
1:VE:254:ALA:O	1:VE:255:SER:OG	2.15	0.61
1:W9:256:ASP:HA	1:W9:259:VAL:HG12	1.83	0.61
1:S9:150:GLU:HG3	1:S9:151:THR:HG23	1.81	0.61
7:3A:68:VAL:HG11	7:3B:85:ARG:HD2	1.80	0.61
7:3F:88:ARG:HH21	7:3F:107:ARG:HG3	1.63	0.61
8:5R:34:PHE:O	8:5Q:109:SER:HB2	2.00	0.61
5:1J:180:LYS:O	5:1J:333:ARG:NH2	2.33	0.61
4:2H:163:TYR:O	4:2H:166:ARG:NH1	2.33	0.61
8:5V:41:VAL:HG22	8:50:119:GLU:OE2	2.01	0.61
8:5V:44:LEU:HD21	8:50:7:LYS:CA	2.30	0.61
8:5P:134:PHE:CD1	8:5O:80:ARG:HD3	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5N:9:LEU:HB3	8:5N:96:PRO:HD3	1.81	0.61
9:7C:258:ARG:NH1	10:8C:168:GLU:O	2.33	0.61
10:8B:784:VAL:O	10:8B:784:VAL:HG12	2.00	0.61
11:6C:10:ALA:HB1	8:50:45:GLU:OE2	2.01	0.61
1:C5:181:ARG:HH21	1:Y9:150:GLU:HB2	1.65	0.61
1:B5:350:LEU:HB2	1:B5:363:TYR:HB3	1.82	0.61
1:N4:133:SER:HB2	1:O4:104:PRO:HB3	1.82	0.61
1:N4:286:ARG:NH1	1:M4:263:TYR:OH	2.34	0.61
1:L4:149:SER:HB2	1:L4:152:ALA:HB2	1.83	0.61
1:RO:219:PRO:HG3	1:RO:369:GLY:HA2	1.83	0.61
1:WO:256:ASP:HA	1:WO:259:VAL:HG12	1.83	0.61
1:ZJ:251:ALA:O	1:ZJ:252:VAL:CG2	2.49	0.61
1:PJ:219:PRO:HG3	1:PJ:369:GLY:HA2	1.82	0.61
1:CF:219:PRO:HG3	1:CF:369:GLY:HA2	1.81	0.61
1:BF:350:LEU:HB2	1:BF:363:TYR:HB3	1.82	0.61
1:VE:181:ARG:HG3	1:CA:367:ARG:HH12	1.64	0.61
1:AA:199:ALA:CB	5:1D:38:ARG:NH2	2.64	0.61
1:L9:149:SER:HB2	1:L9:152:ALA:HB2	1.83	0.61
1:G9:139:ASP:HA	1:G9:162:ILE:HA	1.82	0.61
4:2B:89:LEU:HD21	4:2B:116:ILE:CD1	2.31	0.61
8:5Q:134:PHE:CE2	8:5P:80:ARG:NE	2.68	0.61
5:1H:180:LYS:O	5:1H:333:ARG:NH2	2.33	0.61
8:5D:13:LEU:HD13	8:5D:24:ILE:CG2	2.31	0.61
8:5J:9:LEU:HB3	8:5J:96:PRO:HD3	1.81	0.61
4:2F:92:VAL:HG12	4:2F:93:ASP:N	2.14	0.61
4:2D:89:LEU:HD21	4:2D:116:ILE:CD1	2.31	0.61
8:5T:9:LEU:HB3	8:5T:96:PRO:HD3	1.81	0.61
8:5Y:116:HIS:HD2	8:5Z:28:ARG:O	1.84	0.61
11:6E:10:ALA:HB1	8:52:45:GLU:OE2	2.01	0.61
1:R4:219:PRO:HG3	1:R4:369:GLY:HA2	1.83	0.61
1:BP:188:PHE:O	5:1L:44:ARG:NH1	2.34	0.61
1:RJ:178:ALA:HB3	1:RJ:360:VAL:HB	1.82	0.61
1:TJ:219:PRO:HG3	1:TJ:369:GLY:HA2	1.82	0.61
1:AF:219:PRO:HG3	1:AF:368:VAL:O	2.00	0.61
1:NE:286:ARG:NH1	1:ME:263:TYR:OH	2.34	0.61
1:LE:256:ASP:CA	1:LE:259:VAL:HG12	2.31	0.61
1:LE:265:LEU:HD23	1:LE:379:LYS:HG2	1.82	0.61
1:GE:147:TRP:HZ2	1:BE:209:ALA:HB2	1.65	0.61
8:5M:39:VAL:HG21	8:5M:57:ALA:HB3	1.82	0.61
4:2J:193:LEU:HD21	4:2J:197:PRO:O	2.00	0.61
8:5E:13:LEU:HD13	8:5E:24:ILE:CG2	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5W:9:LEU:HB3	8:5W:96:PRO:HD3	1.82	0.61
8:5Q:33:SER:HA	8:5P:111:ASP:HB3	1.83	0.61
5:1G:265:GLU:OE2	4:2H:191:ARG:NH1	2.33	0.61
8:5D:44:LEU:CD2	8:5I:7:LYS:HA	2.31	0.61
8:5V:39:VAL:HG21	8:5V:57:ALA:HB3	1.82	0.61
8:5V:44:LEU:CD1	8:50:7:LYS:C	2.68	0.61
6:4C:58:LYS:NZ	8:5B:27:LEU:CD1	2.63	0.61
8:5B:13:LEU:HD13	8:5B:24:ILE:CG2	2.31	0.61
8:52:39:VAL:HG21	8:52:57:ALA:HB3	1.82	0.61
1:SE:254:ALA:O	1:SE:255:SER:OG	2.18	0.61
1:KE:265:LEU:HD23	1:KE:379:LYS:HG2	1.82	0.61
1:Z9:251:ALA:O	1:Z9:252:VAL:CG2	2.49	0.61
1:BA:350:LEU:HB2	1:BA:363:TYR:HB3	1.82	0.61
1:S9:256:ASP:HA	1:S9:259:VAL:HG12	1.82	0.61
8:5S:39:VAL:HG21	8:5S:57:ALA:HB3	1.82	0.61
8:5S:109:SER:HB2	8:5T:34:PHE:O	1.99	0.61
8:5E:38:THR:HG22	8:5D:106:MET:SD	2.40	0.61
8:5E:41:VAL:HA	8:5J:28:ARG:NH1	2.16	0.61
4:2H:92:VAL:HG12	4:2H:93:ASP:N	2.14	0.61
8:5O:39:VAL:HG21	8:5O:57:ALA:HB3	1.82	0.61
8:5Y:39:VAL:HG21	8:5Y:57:ALA:HB3	1.82	0.61
11:6D:184:ASP:HB2	11:6D:204:PRO:HG2	1.82	0.61
1:N4:182:LEU:HB2	1:F4:92:SER:CB	2.29	0.61
1:K4:102:VAL:HB	1:J4:132:THR:HG21	1.82	0.61
1:NO:133:SER:HB2	1:OO:104:PRO:HB3	1.82	0.61
1:LO:149:SER:HB2	1:LO:152:ALA:HB2	1.83	0.61
1:GO:147:TRP:HZ2	1:BO:209:ALA:HB2	1.65	0.61
1:QJ:178:ALA:HB3	1:QJ:360:VAL:HB	1.83	0.61
1:UJ:104:PRO:HB3	1:TJ:133:SER:HB2	1.83	0.61
1:GJ:147:TRP:HZ2	1:BJ:209:ALA:HB2	1.65	0.61
1:RE:219:PRO:HG3	1:RE:369:GLY:HA2	1.83	0.61
8:5A:13:LEU:HD13	8:5A:24:ILE:CG2	2.31	0.61
8:5S:9:LEU:HB3	8:5S:96:PRO:HD3	1.82	0.61
4:2L:193:LEU:HD21	4:2L:197:PRO:O	2.00	0.61
4:2G:111:MET:SD	5:1F:239:GLU:OE2	2.59	0.61
4:2H:25:LEU:HD23	7:3D:72:ARG:HH22	1.65	0.61
6:4D:50:GLU:OE2	6:4C:82:LYS:NZ	2.33	0.61
8:5V:9:LEU:HB3	8:5V:96:PRO:HD3	1.82	0.61
4:2F:25:LEU:HD23	7:3C:72:ARG:HH22	1.65	0.61
8:5I:9:LEU:HB3	8:5I:96:PRO:HD3	1.82	0.61
8:5I:39:VAL:HG21	8:5I:57:ALA:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W4:256:ASP:HA	1:W4:259:VAL:HG12	1.83	0.61
1:T4:219:PRO:HG3	1:T4:369:GLY:HA2	1.82	0.61
1:K4:305:GLU:HB2	1:K4:306:PRO:CD	2.26	0.61
1:QO:178:ALA:HB3	1:QO:360:VAL:HB	1.83	0.61
1:BK:351:ARG:NH2	5:1J:41:TRP:CE2	2.69	0.61
1:PE:219:PRO:HG3	1:PE:369:GLY:HA2	1.82	0.61
1:AA:149:SER:HB3	1:AA:152:ALA:HB2	1.81	0.61
1:P9:219:PRO:HG3	1:P9:369:GLY:HA2	1.82	0.61
1:W9:254:ALA:O	1:W9:255:SER:OG	2.14	0.61
1:L9:219:PRO:HG3	1:L9:369:GLY:HA2	1.83	0.61
4:2A:9:VAL:HG13	4:2A:61:ARG:HD3	1.82	0.61
4:2B:193:LEU:HD21	4:2B:197:PRO:O	2.00	0.61
8:5G:84:PHE:HE2	8:5H:134:PHE:HB2	1.66	0.61
8:5X:39:VAL:HG21	8:5X:57:ALA:HB3	1.82	0.61
4:2G:117:GLU:O	4:2G:117:GLU:CD	2.44	0.61
8:5D:34:PHE:HB3	8:5C:83:PHE:CE2	2.35	0.61
8:5V:44:LEU:N	8:5Z:116:HIS:CB	2.63	0.61
8:5P:43:SER:C	8:5T:116:HIS:HB2	2.26	0.61
4:2F:163:TYR:O	4:2F:166:ARG:NH1	2.33	0.61
8:5C:50:TRP:CD1	8:5B:131:ALA:HA	2.36	0.61
9:7A:258:ARG:NH1	10:8A:168:GLU:O	2.33	0.61
8:53:9:LEU:HB3	8:53:96:PRO:HD3	1.82	0.61
1:Q4:178:ALA:HB3	1:Q4:360:VAL:HB	1.83	0.61
1:W4:254:ALA:O	1:W4:255:SER:OG	2.14	0.61
1:C4:352:ASP:HB3	1:BO:354:PHE:HD1	1.65	0.61
1:SJ:256:ASP:HA	1:SJ:259:VAL:HG12	1.82	0.61
1:WE:256:ASP:HA	1:WE:259:VAL:HG12	1.83	0.61
1:W9:219:PRO:HG3	1:W9:369:GLY:HA2	1.82	0.61
8:5M:28:ARG:NH1	8:5H:41:VAL:HA	2.16	0.61
8:5X:44:LEU:CA	8:5I:116:HIS:CB	2.72	0.61
4:2J:89:LEU:HD21	4:2J:116:ILE:CD1	2.31	0.61
11:6B:184:ASP:N	11:6B:204:PRO:O	2.30	0.61
8:5Y:9:LEU:HB3	8:5Y:96:PRO:HD3	1.81	0.61
1:J4:357:LYS:NZ	1:RO:352:ASP:OD2	2.34	0.61
1:L4:219:PRO:HG3	1:L4:369:GLY:HA2	1.83	0.61
1:H4:167:ILE:HD12	1:H4:370:GLY:HA2	1.83	0.61
1:AP:219:PRO:HG3	1:AP:368:VAL:O	2.00	0.61
1:QE:178:ALA:HB3	1:QE:360:VAL:HB	1.83	0.61
8:5A:25:ALA:O	6:4B:57:ASP:OD2	2.19	0.61
8:5S:7:LYS:HA	8:5N:44:LEU:CG	2.31	0.61
4:2K:117:GLU:O	4:2K:117:GLU:CD	2.44	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5F:13:LEU:HD13	8:5F:24:ILE:CG2	2.31	0.61
8:5X:32:ILE:HG23	8:5W:112:TYR:H	1.65	0.61
8:5L:39:VAL:HG21	8:5L:57:ALA:HB3	1.82	0.61
8:5W:32:ILE:O	8:5V:111:ASP:HB2	2.00	0.61
4:2G:9:VAL:HG13	4:2G:61:ARG:HD3	1.82	0.61
8:5J:95:ILE:HB	8:5J:98:PHE:HB2	1.83	0.61
8:5P:95:ILE:HB	8:5P:98:PHE:HB2	1.83	0.61
8:5C:50:TRP:HB2	8:5B:131:ALA:HA	1.83	0.61
10:8A:132:VAL:HG22	10:8A:198:PHE:CD1	2.35	0.61
8:5Y:95:ILE:HB	8:5Y:98:PHE:HB2	1.83	0.61
8:5Z:95:ILE:HB	8:5Z:98:PHE:HB2	1.83	0.61
8:53:39:VAL:HG21	8:53:57:ALA:HB3	1.82	0.61
1:A5:168:PRO:HG3	4:2L:120:GLY:CA	2.31	0.60
1:AP:351:ARG:NH2	5:1J:163:ARG:NH2	2.35	0.60
1:BP:350:LEU:HB2	1:BP:363:TYR:HB3	1.82	0.60
1:RO:178:ALA:HB3	1:RO:360:VAL:HB	1.82	0.60
1:YJ:133:SER:HB2	1:ZJ:104:PRO:HB3	1.83	0.60
1:AK:289:LYS:HB2	1:AK:289:LYS:HZ2	1.65	0.60
1:WJ:219:PRO:HG3	1:WJ:369:GLY:HA2	1.82	0.60
1:JJ:184:ASP:OD2	1:RE:348:ARG:NH2	2.32	0.60
1:LJ:265:LEU:HD23	1:LJ:379:LYS:HG2	1.82	0.60
1:ZE:133:SER:HB2	1:AF:104:PRO:HB3	1.82	0.60
1:R9:178:ALA:HB3	1:R9:360:VAL:HB	1.82	0.60
1:Q9:178:ALA:HB3	1:Q9:360:VAL:HB	1.83	0.60
1:U9:133:SER:HB2	1:V9:104:PRO:HB3	1.83	0.60
8:5M:9:LEU:HB3	8:5M:96:PRO:HD3	1.82	0.60
8:5M:95:ILE:HB	8:5M:98:PHE:HB2	1.83	0.60
5:1K:180:LYS:O	5:1K:333:ARG:NH2	2.34	0.60
5:1K:265:GLU:OE2	4:2L:191:ARG:NH1	2.33	0.60
8:5R:44:LEU:HD21	8:5W:7:LYS:C	2.24	0.60
4:2I:117:GLU:O	4:2I:117:GLU:CD	2.44	0.60
8:5Q:39:VAL:HG21	8:5Q:57:ALA:HB3	1.82	0.60
5:1E:180:LYS:O	5:1E:333:ARG:NH2	2.34	0.60
8:5C:13:LEU:HD13	8:5C:24:ILE:CG2	2.31	0.60
8:5T:41:VAL:HG21	8:5Z:3:ALA:HB1	1.82	0.60
8:5T:44:LEU:HD13	8:5Y:10:LEU:HD21	1.83	0.60
10:8C:955:ILE:HA	10:8C:968:ALA:HA	1.83	0.60
8:53:95:ILE:HB	8:53:98:PHE:HB2	1.83	0.60
1:Q4:284:ALA:HA	1:Q4:287:LYS:HD3	1.84	0.60
1:L4:252:VAL:HG11	2:B2:3:VAL:CG1	2.31	0.60
1:ZO:152:ALA:HA	4:2I:103:ALA:CB	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KO:265:LEU:HD23	1:KO:379:LYS:HG2	1.82	0.60
1:NJ:133:SER:HB2	1:OJ:104:PRO:HB3	1.82	0.60
1:BF:187:ALA:C	5:1G:44:ARG:HD2	2.25	0.60
1:OE:352:ASP:OD2	1:SE:357:LYS:NZ	2.35	0.60
1:UE:145:SER:HB3	1:VE:172:LEU:HD11	1.82	0.60
5:1A:265:GLU:OE2	4:2B:191:ARG:NH1	2.33	0.60
8:5S:50:TRP:CZ2	8:5W:84:PHE:HD1	2.11	0.60
8:5G:9:LEU:HB3	8:5G:96:PRO:HD3	1.81	0.60
8:5G:95:ILE:HB	8:5G:98:PHE:HB2	1.84	0.60
8:5M:80:ARG:HD3	8:5N:134:PHE:CD1	2.36	0.60
5:1K:159:THR:HG22	5:1K:164:LYS:HG2	1.83	0.60
4:2I:30:ALA:HA	7:3D:67:PRO:HB3	1.82	0.60
5:1I:180:LYS:O	5:1I:333:ARG:NH2	2.34	0.60
4:2J:92:VAL:HG12	4:2J:93:ASP:N	2.14	0.60
8:5W:39:VAL:HG21	8:5W:57:ALA:HB3	1.82	0.60
5:1G:180:LYS:O	5:1G:333:ARG:NH2	2.34	0.60
8:5V:41:VAL:HA	8:50:28:ARG:NH1	2.15	0.60
8:5P:44:LEU:HG	8:5U:7:LYS:HG2	1.83	0.60
5:1E:159:THR:HG22	5:1E:164:LYS:HG2	1.83	0.60
8:5C:50:TRP:CE3	8:5B:132:LEU:HD13	2.35	0.60
5:1C:180:LYS:O	5:1C:333:ARG:NH2	2.34	0.60
5:1D:253:GLN:HE22	4:2D:195:GLY:HA2	1.66	0.60
8:5N:95:ILE:HB	8:5N:98:PHE:HB2	1.83	0.60
10:8A:784:VAL:O	10:8A:784:VAL:HG12	2.00	0.60
10:8A:955:ILE:HA	10:8A:968:ALA:HA	1.83	0.60
1:PO:219:PRO:HG3	1:PO:369:GLY:HA2	1.82	0.60
1:LO:252:VAL:HG11	2:BM:3:VAL:CG1	2.31	0.60
1:GO:139:ASP:HA	1:GO:162:ILE:HA	1.82	0.60
1:WJ:256:ASP:HA	1:WJ:259:VAL:HG12	1.83	0.60
1:LJ:256:ASP:CA	1:LJ:259:VAL:HG12	2.31	0.60
1:QE:284:ALA:HA	1:QE:287:LYS:HD3	1.84	0.60
1:Y9:133:SER:HB2	1:Z9:104:PRO:HB3	1.83	0.60
1:N9:133:SER:HB2	1:O9:104:PRO:HB3	1.82	0.60
8:5S:95:ILE:HB	8:5S:98:PHE:HB2	1.84	0.60
8:5S:111:ASP:CB	8:5T:33:SER:HA	2.31	0.60
8:5J:44:LEU:HD21	8:5O:7:LYS:O	2.02	0.60
8:5P:9:LEU:HB3	8:5P:96:PRO:HD3	1.82	0.60
4:2C:9:VAL:HG13	4:2C:61:ARG:HD3	1.82	0.60
4:2C:117:GLU:O	4:2C:117:GLU:CD	2.44	0.60
8:5T:95:ILE:HB	8:5T:98:PHE:HB2	1.84	0.60
11:6A:81:TRP:CD2	8:5Y:44:LEU:HD22	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:52:116:HIS:HD2	8:53:28:ARG:O	1.84	0.60
1:Y4:133:SER:HB2	1:Z4:104:PRO:HB3	1.83	0.60
1:N4:179:SER:HB2	1:D4:150:GLU:OE2	2.01	0.60
1:O4:344:ARG:NH1	1:S4:185:ASP:OD1	2.34	0.60
1:U4:145:SER:HB3	1:V4:172:LEU:HD11	1.82	0.60
1:YO:133:SER:HB2	1:ZO:104:PRO:HB3	1.83	0.60
1:BP:188:PHE:O	5:1L:44:ARG:CZ	2.43	0.60
1:OO:219:PRO:HG3	1:OO:369:GLY:HA2	1.83	0.60
1:OO:344:ARG:NH1	1:SO:185:ASP:OD1	2.34	0.60
1:LO:219:PRO:HG3	1:LO:369:GLY:HA2	1.83	0.60
1:ZJ:133:SER:HB2	1:AK:104:PRO:HB3	1.82	0.60
1:BK:350:LEU:HB2	1:BK:363:TYR:HB3	1.82	0.60
1:NJ:179:SER:HB2	1:DJ:150:GLU:OE2	2.01	0.60
1:R9:219:PRO:HG3	1:R9:369:GLY:HA2	1.83	0.60
1:O9:219:PRO:HG3	1:O9:369:GLY:HA2	1.83	0.60
4:2L:5:GLU:OE2	4:2L:61:ARG:NH1	2.35	0.60
5:1I:159:THR:HG22	5:1I:164:LYS:HG2	1.83	0.60
4:2J:163:TYR:O	4:2J:166:ARG:NH1	2.33	0.60
8:5W:44:LEU:HG	8:5I:7:LYS:CA	2.22	0.60
8:5K:39:VAL:HG21	8:5K:57:ALA:HB3	1.82	0.60
4:2H:5:GLU:OE2	4:2H:61:ARG:NH1	2.34	0.60
4:2F:5:GLU:OE2	4:2F:61:ARG:NH1	2.35	0.60
9:7C:178:ASP:HB3	9:7C:182:VAL:CG2	2.29	0.60
9:7C:196:PHE:HB3	9:7C:248:PRO:HA	1.81	0.60
8:52:95:ILE:HB	8:52:98:PHE:HB2	1.83	0.60
1:R4:133:SER:HB2	1:M4:104:PRO:HB3	1.84	0.60
1:WJ:133:SER:HB2	1:SJ:104:PRO:HB3	1.82	0.60
1:RE:178:ALA:HB3	1:RE:360:VAL:HB	1.82	0.60
1:Z9:167:ILE:HD12	1:Z9:370:GLY:HA2	1.83	0.60
4:2A:117:GLU:O	4:2A:117:GLU:CD	2.44	0.60
4:2I:111:MET:SD	5:1H:239:GLU:OE2	2.58	0.60
8:5W:44:LEU:CG	8:50:116:HIS:HA	2.31	0.60
8:5W:95:ILE:HB	8:5W:98:PHE:HB2	1.84	0.60
5:1C:139:ARG:NH2	5:1D:185:THR:O	2.34	0.60
1:Z4:251:ALA:O	1:Z4:252:VAL:CG2	2.49	0.60
1:A5:168:PRO:CA	4:2L:121:ALA:HB2	2.26	0.60
1:KO:102:VAL:HB	1:JO:132:THR:HG21	1.82	0.60
1:IO:252:VAL:HG12	1:IO:253:ASN:HD22	1.67	0.60
1:EO:132:THR:CG2	1:FO:102:VAL:HG22	2.32	0.60
1:BK:200:ASP:OD2	1:BK:204:ARG:NH1	2.35	0.60
1:RJ:219:PRO:HG3	1:RJ:369:GLY:HA2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GJ:139:ASP:HA	1:GJ:162:ILE:HA	1.82	0.60
1:ZE:251:ALA:O	1:ZE:252:VAL:CG2	2.49	0.60
1:WE:133:SER:HB2	1:SE:104:PRO:HB3	1.82	0.60
1:WE:219:PRO:HG3	1:WE:369:GLY:HA2	1.82	0.60
1:UE:133:SER:HB2	1:VE:104:PRO:HB3	1.83	0.60
1:SE:256:ASP:HA	1:SE:259:VAL:HG12	1.82	0.60
1:K9:265:LEU:HD23	1:K9:379:LYS:HG2	1.82	0.60
5:1A:159:THR:HG22	5:1A:164:LYS:HG2	1.83	0.60
4:2B:5:GLU:OE2	4:2B:61:ARG:NH1	2.35	0.60
4:2K:90:ARG:NH2	4:2K:133:GLU:OE2	2.30	0.60
4:2L:89:LEU:HD21	4:2L:116:ILE:CD1	2.31	0.60
4:2J:25:LEU:HD23	7:3E:72:ARG:HH22	1.65	0.60
6:4E:37:PRO:HA	7:3E:111:VAL:HG13	1.84	0.60
8:5W:51:ARG:CZ	8:5V:61:SER:CB	2.78	0.60
8:5Q:95:ILE:HB	8:5Q:98:PHE:HB2	1.83	0.60
5:1G:159:THR:HG22	5:1G:164:LYS:HG2	1.83	0.60
6:4D:37:PRO:HA	7:3D:111:VAL:HG13	1.84	0.60
8:5V:44:LEU:HG	8:50:7:LYS:CG	2.32	0.60
8:5P:39:VAL:HG21	8:5P:57:ALA:HB3	1.82	0.60
5:1E:139:ARG:NH2	5:1F:185:THR:O	2.34	0.60
4:2F:89:LEU:HD21	4:2F:116:ILE:CD1	2.31	0.60
8:5I:95:ILE:HB	8:5I:98:PHE:HB2	1.84	0.60
8:5O:95:ILE:HB	8:5O:98:PHE:HB2	1.83	0.60
4:2C:90:ARG:NH2	4:2C:133:GLU:OE2	2.30	0.60
5:1C:159:THR:HG22	5:1C:164:LYS:HG2	1.84	0.60
11:6E:81:TRP:CD2	8:52:44:LEU:HD22	2.37	0.60
1:E4:132:THR:CG2	1:F4:102:VAL:HG22	2.31	0.60
1:VO:219:PRO:HG3	1:VO:369:GLY:HA2	1.84	0.60
1:IJ:252:VAL:HG12	1:IJ:253:ASN:HD22	1.67	0.60
1:UE:104:PRO:HB3	1:TE:133:SER:HB2	1.83	0.60
1:N9:179:SER:HB2	1:D9:150:GLU:OE2	2.01	0.60
1:O9:344:ARG:NH1	1:S9:185:ASP:OD1	2.34	0.60
1:U9:104:PRO:HB3	1:T9:133:SER:HB2	1.83	0.60
1:K9:102:VAL:HB	1:J9:132:THR:HG21	1.82	0.60
4:2A:196:ARG:NH2	5:1B:216:ASP:OD2	2.35	0.60
8:5X:51:ARG:CZ	8:5W:61:SER:HB2	2.31	0.60
8:5X:84:PHE:HE1	8:5T:50:TRP:HH2	1.49	0.60
8:5X:95:ILE:HB	8:5X:98:PHE:HB2	1.84	0.60
8:5L:95:ILE:HB	8:5L:98:PHE:HB2	1.84	0.60
5:1J:159:THR:HG22	5:1J:164:LYS:HG2	1.84	0.60
8:5V:95:ILE:HB	8:5V:98:PHE:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1F:126:CYS:HB3	5:1F:132:PRO:HB3	1.84	0.60
7:3C:46:GLU:HG2	7:3B:90:LEU:HD22	1.84	0.60
8:5H:95:ILE:HB	8:5H:98:PHE:HB2	1.83	0.60
1:W4:219:PRO:HG3	1:W4:369:GLY:HA2	1.82	0.60
1:V4:219:PRO:HG3	1:V4:369:GLY:HA2	1.84	0.60
1:V4:254:ALA:O	1:V4:255:SER:OG	2.15	0.60
1:NO:179:SER:HB2	1:DO:150:GLU:OE2	2.01	0.60
1:JO:357:LYS:NZ	1:RJ:352:ASP:OD2	2.34	0.60
1:QJ:284:ALA:HA	1:QJ:287:LYS:HD3	1.84	0.60
1:UJ:133:SER:HB2	1:VJ:104:PRO:HB3	1.83	0.60
1:ZE:167:ILE:HD12	1:ZE:370:GLY:HA2	1.83	0.60
1:EE:132:THR:CG2	1:FE:102:VAL:HG22	2.31	0.60
1:BA:200:ASP:OD2	1:BA:204:ARG:NH1	2.35	0.60
1:K9:219:PRO:HG3	1:K9:369:GLY:HA2	1.84	0.60
1:D9:223:LEU:O	1:D9:227:LYS:NZ	2.32	0.60
8:5A:94:ILE:CG1	8:5A:100:ILE:HG22	2.32	0.60
8:5R:95:ILE:HB	8:5R:98:PHE:HB2	1.84	0.60
5:1I:139:ARG:NH2	5:1J:185:THR:O	2.34	0.60
8:5W:9:LEU:HD21	8:5V:113:ALA:O	2.01	0.60
8:5K:95:ILE:HB	8:5K:98:PHE:HB2	1.83	0.60
5:1D:78:CYS:HB2	5:1D:350:ILE:HD11	1.84	0.60
11:6D:184:ASP:N	11:6D:204:PRO:O	2.30	0.60
1:K4:265:LEU:HD23	1:K4:379:LYS:HG2	1.82	0.60
1:OO:178:ALA:HB3	1:OO:360:VAL:HB	1.84	0.60
1:JO:167:ILE:HD12	1:JO:370:GLY:HA2	1.84	0.60
1:LO:256:ASP:CA	1:LO:259:VAL:HG12	2.31	0.60
1:VJ:254:ALA:O	1:VJ:255:SER:OG	2.15	0.60
1:HJ:167:ILE:HD12	1:HJ:370:GLY:HA2	1.83	0.60
1:EJ:132:THR:CG2	1:FJ:102:VAL:HG22	2.31	0.60
1:N9:286:ARG:NH1	1:M9:263:TYR:OH	2.34	0.60
1:R9:133:SER:HB2	1:M9:104:PRO:HB3	1.84	0.60
1:O9:352:ASP:OD2	1:S9:357:LYS:NZ	2.35	0.60
1:E9:132:THR:CG2	1:F9:102:VAL:HG22	2.31	0.60
5:1B:253:GLN:HE22	4:2B:195:GLY:HA2	1.66	0.60
8:5A:50:TRP:CD1	8:5F:131:ALA:HA	2.37	0.60
4:2K:196:ARG:NH2	5:1L:216:ASP:OD2	2.35	0.60
5:1L:126:CYS:HB3	5:1L:132:PRO:HB3	1.84	0.60
8:5E:94:ILE:CG1	8:5E:100:ILE:HG22	2.32	0.60
4:2E:117:GLU:O	4:2E:117:GLU:CD	2.44	0.60
8:5C:28:ARG:O	8:5B:116:HIS:N	2.35	0.60
1:W4:133:SER:HB2	1:S4:104:PRO:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BP:200:ASP:OD2	1:BP:204:ARG:NH1	2.35	0.60
1:OO:352:ASP:OD2	1:SO:357:LYS:NZ	2.35	0.60
1:OJ:344:ARG:NH1	1:SJ:185:ASP:OD1	2.34	0.60
1:YE:133:SER:HB2	1:ZE:104:PRO:HB3	1.83	0.60
1:AF:166:THR:CG2	4:2E:121:ALA:H	2.15	0.60
1:W9:133:SER:HB2	1:S9:104:PRO:HB3	1.82	0.60
5:1A:180:LYS:O	5:1A:333:ARG:NH2	2.34	0.60
8:5S:50:TRP:HH2	8:5W:84:PHE:HE1	1.47	0.60
8:5M:42:THR:HG23	8:5W:116:HIS:NE2	2.13	0.60
5:1L:253:GLN:HE22	4:2L:195:GLY:HA2	1.66	0.60
8:5V:41:VAL:HG13	8:50:28:ARG:NH1	2.17	0.60
6:4B:37:PRO:HA	7:3B:111:VAL:HG13	1.84	0.60
10:8B:955:ILE:HA	10:8B:968:ALA:HA	1.83	0.60
8:50:95:ILE:HB	8:50:98:PHE:HB2	1.83	0.60
8:51:95:ILE:HB	8:51:98:PHE:HB2	1.83	0.60
1:Z4:167:ILE:HD12	1:Z4:370:GLY:HA2	1.83	0.59
1:U4:133:SER:HB2	1:V4:104:PRO:HB3	1.83	0.59
1:K4:305:GLU:CB	1:K4:306:PRO:HD3	2.28	0.59
1:J4:167:ILE:HD12	1:J4:370:GLY:HA2	1.84	0.59
1:A4:133:SER:HB2	1:A9:104:PRO:HB3	1.83	0.59
1:D4:223:LEU:O	1:D4:227:LYS:NZ	2.32	0.59
1:BP:192:THR:CG2	5:1L:41:TRP:CD2	2.85	0.59
1:HO:167:ILE:HD12	1:HO:370:GLY:HA2	1.84	0.59
1:AO:104:PRO:HB3	1:AJ:133:SER:HB2	1.83	0.59
1:OJ:367:ARG:HH22	1:SJ:181:ARG:HG3	1.67	0.59
1:WJ:252:VAL:HG11	2:BI:3:VAL:HG11	1.84	0.59
1:VJ:219:PRO:HG3	1:VJ:369:GLY:HA2	1.84	0.59
1:LE:219:PRO:HG3	1:LE:369:GLY:HA2	1.83	0.59
8:5M:116:HIS:CE1	8:5I:42:THR:HG23	2.37	0.59
8:5R:3:ALA:HA	8:5Q:71:LYS:HG2	1.83	0.59
8:5R:39:VAL:HG21	8:5R:57:ALA:HB3	1.82	0.59
4:2J:91:LEU:HD11	4:2J:127:PRO:HD2	1.84	0.59
11:6C:81:TRP:CD2	8:50:44:LEU:HD22	2.36	0.59
1:K4:219:PRO:HG3	1:K4:369:GLY:HA2	1.84	0.59
1:AP:216:VAL:CG1	4:2I:127:PRO:CG	2.73	0.59
1:UO:145:SER:HB3	1:VO:172:LEU:HD11	1.82	0.59
1:JJ:357:LYS:NZ	1:RE:352:ASP:OD2	2.35	0.59
1:A9:167:ILE:HD12	1:A9:370:GLY:HA2	1.85	0.59
6:4A:37:PRO:HA	7:3A:111:VAL:HG13	1.84	0.59
6:4D:37:PRO:HA	7:3D:111:VAL:CG1	2.32	0.59
8:5J:39:VAL:HG21	8:5J:57:ALA:HB3	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2E:9:VAL:HG13	4:2E:61:ARG:HD3	1.82	0.59
10:8A:784:VAL:HG22	10:8A:826:PHE:HB2	1.84	0.59
10:8A:954:ARG:HE	10:8A:971:VAL:HG21	1.67	0.59
11:6A:10:ALA:HB1	8:5Y:45:GLU:OE2	2.01	0.59
1:Y4:344:ARG:HE	1:Y4:367:ARG:HD3	1.68	0.59
1:R4:352:ASP:OD2	1:J9:357:LYS:NZ	2.35	0.59
1:H4:288:MET:HE3	1:H4:297:TRP:HE1	1.68	0.59
2:A1:3:VAL:HG13	1:AO:252:VAL:CG1	2.28	0.59
1:ZO:152:ALA:HB2	4:2I:103:ALA:HB3	1.82	0.59
1:WO:133:SER:HB2	1:SO:104:PRO:HB3	1.82	0.59
1:WO:219:PRO:HG3	1:WO:369:GLY:HA2	1.82	0.59
1:EO:147:TRP:CZ2	1:FO:209:ALA:HB2	2.38	0.59
1:NE:179:SER:HB2	1:DE:150:GLU:OE2	2.01	0.59
1:OE:219:PRO:HG3	1:OE:369:GLY:HA2	1.83	0.59
1:OE:344:ARG:NH1	1:SE:185:ASP:OD1	2.34	0.59
1:HE:167:ILE:HD12	1:HE:370:GLY:HA2	1.83	0.59
1:H9:167:ILE:HD12	1:H9:370:GLY:HA2	1.83	0.59
1:E9:147:TRP:CZ2	1:F9:209:ALA:HB2	2.37	0.59
5:1B:78:CYS:HB2	5:1B:350:ILE:HD11	1.84	0.59
4:2B:91:LEU:HD11	4:2B:127:PRO:HD2	1.84	0.59
4:2I:192:VAL:O	5:1H:252:HIS:NE2	2.30	0.59
4:2H:91:LEU:HD11	4:2H:127:PRO:HD2	1.84	0.59
8:5V:33:SER:CA	8:5U:111:ASP:HB3	2.26	0.59
8:5V:44:LEU:CB	8:5Z:116:HIS:HA	2.28	0.59
5:1F:76:LEU:HD13	5:1F:352:LEU:HD21	1.84	0.59
6:4C:37:PRO:HA	7:3C:111:VAL:CG1	2.32	0.59
8:5U:95:ILE:HB	8:5U:98:PHE:HB2	1.84	0.59
8:5B:94:ILE:CG1	8:5B:100:ILE:HG22	2.32	0.59
11:6A:21:GLU:HG2	11:6F:187:ARG:CB	2.31	0.59
1:Z4:352:ASP:HB3	1:CP:354:PHE:HD1	1.68	0.59
1:O4:219:PRO:HG3	1:O4:369:GLY:HA2	1.83	0.59
1:O4:352:ASP:OD2	1:S4:357:LYS:NZ	2.35	0.59
1:OJ:352:ASP:OD2	1:SJ:357:LYS:NZ	2.35	0.59
1:WE:252:VAL:HG11	2:BD:3:VAL:HG11	1.85	0.59
1:EE:147:TRP:CZ2	1:FE:209:ALA:HB2	2.38	0.59
8:5A:44:LEU:CD2	8:5L:7:LYS:HA	2.33	0.59
6:4F:37:PRO:HA	7:3F:111:VAL:CG1	2.32	0.59
8:5F:41:VAL:HG13	8:5K:69:VAL:HG21	1.84	0.59
4:2D:90:ARG:HA	4:2D:100:PRO:HA	1.85	0.59
4:2D:91:LEU:HD11	4:2D:127:PRO:HD2	1.84	0.59
11:6F:48:ASP:HA	11:6F:204:PRO:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:289:LYS:HB2	1:A5:289:LYS:HZ2	1.66	0.59
1:P4:349:VAL:O	1:P4:349:VAL:HG13	2.03	0.59
1:U4:104:PRO:HB3	1:T4:133:SER:HB2	1.83	0.59
1:CP:262:VAL:HG21	1:CP:310:MET:HG2	1.85	0.59
1:ZO:167:ILE:HD12	1:ZO:370:GLY:HA2	1.83	0.59
1:JO:184:ASP:OD2	1:RJ:348:ARG:NH2	2.32	0.59
1:LO:254:ALA:O	1:LO:255:SER:OG	2.21	0.59
1:JJ:167:ILE:HD12	1:JJ:370:GLY:HA2	1.84	0.59
1:LJ:219:PRO:HG3	1:LJ:369:GLY:HA2	1.83	0.59
1:BF:200:ASP:OD2	1:BF:204:ARG:NH1	2.35	0.59
1:RE:133:SER:HB2	1:ME:104:PRO:HB3	1.84	0.59
1:SE:252:VAL:HG11	2:CD:3:VAL:CG1	2.32	0.59
1:VE:219:PRO:HG3	1:VE:369:GLY:HA2	1.84	0.59
2:AB:3:VAL:HG13	1:A9:252:VAL:CG1	2.26	0.59
1:X9:133:SER:HB2	1:Y9:104:PRO:HB3	1.84	0.59
1:T9:252:VAL:HG11	2:D8:3:VAL:HG11	1.84	0.59
6:4A:57:ASP:OD2	8:5F:25:ALA:O	2.20	0.59
8:5A:50:TRP:CE2	8:5F:132:LEU:HB2	2.37	0.59
8:5G:28:ARG:NH1	8:5B:41:VAL:HA	2.18	0.59
5:1K:139:ARG:NH2	5:1L:185:THR:O	2.35	0.59
5:1L:159:THR:HG22	5:1L:164:LYS:HG2	1.84	0.59
4:2L:163:TYR:O	4:2L:166:ARG:NH1	2.33	0.59
4:2C:196:ARG:NH2	5:1D:216:ASP:OD2	2.35	0.59
9:7B:251:ASP:OD2	9:7B:253:ARG:NH1	2.34	0.59
1:R4:348:ARG:NH2	1:J9:184:ASP:OD2	2.33	0.59
1:S4:252:VAL:HG11	2:C3:3:VAL:CG1	2.32	0.59
1:G4:133:SER:HB2	1:B4:104:PRO:HB3	1.85	0.59
1:XO:133:SER:HB2	1:YO:104:PRO:HB3	1.84	0.59
1:UO:133:SER:HB2	1:VO:104:PRO:HB3	1.83	0.59
1:BK:349:VAL:HG21	5:1J:41:TRP:CZ2	2.38	0.59
1:RJ:262:VAL:HG21	1:RJ:310:MET:HG2	1.84	0.59
1:OJ:219:PRO:HG3	1:OJ:369:GLY:HA2	1.83	0.59
1:UJ:149:SER:HB2	1:UJ:152:ALA:HB2	1.84	0.59
1:UE:149:SER:HB2	1:UE:152:ALA:HB2	1.85	0.59
1:KE:219:PRO:HG3	1:KE:369:GLY:HA2	1.84	0.59
1:Q9:284:ALA:HA	1:Q9:287:LYS:HD3	1.84	0.59
1:S9:254:ALA:O	1:S9:255:SER:OG	2.18	0.59
1:L9:256:ASP:CA	1:L9:259:VAL:HG12	2.31	0.59
1:I9:252:VAL:HG12	1:I9:253:ASN:HD22	1.67	0.59
5:1A:139:ARG:NH2	5:1B:185:THR:O	2.34	0.59
5:1A:324:ARG:HH22	5:1L:360:PRO:HB2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1B:126:CYS:HB3	5:1B:132:PRO:HB3	1.84	0.59
8:5S:134:PHE:HB2	8:5X:84:PHE:HE2	1.68	0.59
4:2J:5:GLU:OE2	4:2J:61:ARG:NH1	2.35	0.59
8:5Q:44:LEU:CD2	8:5V:7:LYS:O	2.36	0.59
5:1H:126:CYS:HB3	5:1H:132:PRO:HB3	1.84	0.59
5:1H:159:THR:HG22	5:1H:164:LYS:HG2	1.84	0.59
5:1F:253:GLN:HE22	4:2F:195:GLY:HA2	1.66	0.59
8:5O:50:TRP:CE3	8:5N:60:ARG:HG3	2.37	0.59
4:2D:5:GLU:OE2	4:2D:61:ARG:NH1	2.35	0.59
8:5Y:33:SER:HA	8:53:111:ASP:HB3	1.83	0.59
1:R4:178:ALA:HB3	1:R4:360:VAL:HB	1.82	0.59
1:M4:219:PRO:HG3	1:M4:369:GLY:HA2	1.85	0.59
1:EJ:147:TRP:CZ2	1:FJ:209:ALA:HB2	2.37	0.59
1:JE:357:LYS:NZ	1:R9:352:ASP:OD2	2.35	0.59
1:AE:104:PRO:HB3	1:A9:133:SER:HB2	1.83	0.59
1:Y9:344:ARG:HE	1:Y9:367:ARG:HD3	1.68	0.59
1:V9:219:PRO:HG3	1:V9:369:GLY:HA2	1.84	0.59
4:2B:90:ARG:HA	4:2B:100:PRO:HA	1.85	0.59
6:4F:37:PRO:HA	7:3F:111:VAL:HG13	1.84	0.59
8:5K:41:VAL:HA	8:5P:28:ARG:NH1	2.17	0.59
4:2H:90:ARG:HA	4:2H:100:PRO:HA	1.85	0.59
8:5D:94:ILE:CG1	8:5D:100:ILE:HG22	2.32	0.59
5:1F:159:THR:HG22	5:1F:164:LYS:HG2	1.84	0.59
4:2F:90:ARG:HA	4:2F:100:PRO:HA	1.85	0.59
5:1D:159:THR:HG22	5:1D:164:LYS:HG2	1.84	0.59
6:4B:37:PRO:HA	7:3B:111:VAL:CG1	2.32	0.59
1:X4:139:ASP:HA	1:X4:162:ILE:HA	1.85	0.59
1:B5:200:ASP:OD2	1:B5:204:ARG:NH1	2.35	0.59
1:R4:262:VAL:HG21	1:R4:310:MET:HG2	1.84	0.59
1:O4:367:ARG:HH22	1:S4:181:ARG:HG3	1.67	0.59
1:S4:254:ALA:O	1:S4:255:SER:OG	2.18	0.59
1:MO:219:PRO:HG3	1:MO:369:GLY:HA2	1.85	0.59
1:TJ:252:VAL:HG11	2:DI:3:VAL:HG11	1.84	0.59
1:N9:182:LEU:HB2	1:F9:92:SER:CB	2.29	0.59
8:5A:50:TRP:CB	8:5F:131:ALA:HA	2.33	0.59
4:2L:90:ARG:HA	4:2L:100:PRO:HA	1.85	0.59
4:2L:91:LEU:HD11	4:2L:127:PRO:HD2	1.84	0.59
8:5R:44:LEU:O	8:5W:7:LYS:HE2	2.03	0.59
5:1J:253:GLN:HE22	4:2J:195:GLY:HA2	1.66	0.59
4:2J:90:ARG:HA	4:2J:100:PRO:HA	1.85	0.59
6:4E:37:PRO:HA	7:3E:111:VAL:CG1	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1G:139:ARG:NH2	5:1H:185:THR:O	2.34	0.59
5:1E:265:GLU:OE2	4:2F:191:ARG:NH1	2.33	0.59
1:A4:104:PRO:HB3	1:AO:133:SER:HB2	1.84	0.59
1:AP:346:ASP:HA	5:1K:41:TRP:HE1	1.62	0.59
1:RO:133:SER:HB2	1:MO:104:PRO:HB3	1.84	0.59
1:QO:284:ALA:HA	1:QO:287:LYS:HD3	1.84	0.59
1:SJ:252:VAL:HG11	2:CI:3:VAL:CG1	2.32	0.59
1:TE:252:VAL:HG11	2:DD:3:VAL:HG11	1.84	0.59
1:AE:167:ILE:HD12	1:AE:370:GLY:HA2	1.85	0.59
1:R9:262:VAL:HG21	1:R9:310:MET:HG2	1.84	0.59
1:M9:219:PRO:HG3	1:M9:369:GLY:HA2	1.85	0.59
1:G9:133:SER:HB2	1:B9:104:PRO:HB3	1.85	0.59
5:1K:29:ILE:HG22	5:1J:160:VAL:CG1	2.32	0.59
7:3F:85:ARG:HD2	7:3E:68:VAL:HG11	1.84	0.59
5:1J:76:LEU:HD13	5:1J:352:LEU:HD21	1.84	0.59
8:5V:50:TRP:HZ2	8:5T:84:PHE:CG	2.11	0.59
8:5Z:111:ASP:HB3	8:50:33:SER:HA	1.84	0.59
8:50:116:HIS:HD2	8:51:28:ARG:O	1.84	0.59
1:P4:182:LEU:HB2	1:S4:92:SER:HB2	1.85	0.59
1:L4:256:ASP:CA	1:L4:259:VAL:HG12	2.31	0.59
1:OO:367:ARG:HH22	1:SO:181:ARG:HG3	1.67	0.59
1:UO:104:PRO:HB3	1:TO:133:SER:HB2	1.83	0.59
1:HO:275:PHE:HB2	1:HO:314:VAL:HG22	1.85	0.59
1:CK:262:VAL:HG21	1:CK:310:MET:HG2	1.85	0.59
1:XJ:133:SER:HB2	1:YJ:104:PRO:HB3	1.84	0.59
1:MJ:261:LEU:HD22	1:MJ:332:PHE:HB3	1.85	0.59
1:TJ:288:MET:HE3	1:TJ:297:TRP:HE1	1.68	0.59
1:AJ:104:PRO:HB3	1:AE:133:SER:HB2	1.84	0.59
1:AF:345:PRO:O	5:1F:161:GLY:O	2.21	0.59
1:RE:145:SER:HB3	1:ME:172:LEU:HD11	1.85	0.59
1:RE:262:VAL:HG21	1:RE:310:MET:HG2	1.84	0.59
1:PE:349:VAL:HG13	1:PE:349:VAL:O	2.03	0.59
7:3A:53:THR:OG1	6:4F:119:LYS:HG3	2.02	0.59
8:5M:44:LEU:HD11	8:5X:7:LYS:CA	2.31	0.59
8:5X:50:TRP:CH2	8:5V:84:PHE:HE1	2.11	0.59
4:2I:196:ARG:NH2	5:1J:216:ASP:OD2	2.35	0.59
8:5K:42:THR:CG2	8:5O:116:HIS:CE1	2.85	0.59
6:4C:37:PRO:HA	7:3C:111:VAL:HG13	1.84	0.59
1:I4:252:VAL:HG12	1:I4:253:ASN:HD22	1.67	0.58
1:C4:219:PRO:HG3	1:C4:369:GLY:HA2	1.85	0.58
1:YO:344:ARG:HE	1:YO:367:ARG:HD3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HO:288:MET:HE3	1:HO:297:TRP:HE1	1.68	0.58
1:CO:219:PRO:HG3	1:CO:369:GLY:HA2	1.85	0.58
1:RJ:133:SER:HB2	1:MJ:104:PRO:HB3	1.84	0.58
1:EE:149:SER:HB3	1:EE:152:ALA:CB	2.33	0.58
1:O9:178:ALA:HB3	1:O9:360:VAL:HB	1.84	0.58
1:P9:182:LEU:HB2	1:S9:92:SER:HB2	1.85	0.58
1:S9:252:VAL:HG11	2:C8:3:VAL:CG1	2.32	0.58
6:4A:37:PRO:HA	7:3A:111:VAL:CG1	2.32	0.58
8:5F:94:ILE:CG1	8:5F:100:ILE:HG22	2.32	0.58
4:2I:163:TYR:O	4:2I:166:ARG:NH1	2.36	0.58
5:1J:78:CYS:HB2	5:1J:350:ILE:HD11	1.84	0.58
7:3D:46:GLU:HG2	7:3C:90:LEU:HD22	1.85	0.58
5:1D:76:LEU:HD13	5:1D:352:LEU:HD21	1.84	0.58
11:6F:164:PRO:HB2	11:6F:166:PRO:HD2	1.85	0.58
1:C5:262:VAL:HG21	1:C5:310:MET:HG2	1.85	0.58
1:H4:275:PHE:HB2	1:H4:314:VAL:HG22	1.85	0.58
1:RO:265:LEU:HD23	1:RO:379:LYS:HG2	1.86	0.58
1:RJ:145:SER:HB3	1:MJ:172:LEU:HD11	1.85	0.58
1:MJ:219:PRO:HG3	1:MJ:369:GLY:HA2	1.85	0.58
1:OJ:178:ALA:HB3	1:OJ:360:VAL:HB	1.84	0.58
1:KJ:219:PRO:HG3	1:KJ:369:GLY:HA2	1.84	0.58
1:AJ:167:ILE:HD12	1:AJ:370:GLY:HA2	1.85	0.58
1:ME:261:LEU:HD22	1:ME:332:PHE:HB3	1.85	0.58
1:TE:288:MET:HE3	1:TE:297:TRP:HE1	1.68	0.58
1:X9:121:ARG:NH1	1:X9:343:GLU:OE1	2.36	0.58
1:J9:167:ILE:HD12	1:J9:370:GLY:HA2	1.84	0.58
8:5R:116:HIS:CE1	8:5H:42:THR:CG2	2.86	0.58
5:1H:253:GLN:HE22	4:2H:195:GLY:HA2	1.66	0.58
8:5P:44:LEU:O	8:5U:7:LYS:NZ	2.37	0.58
5:1E:185:THR:O	5:1D:139:ARG:NH2	2.34	0.58
5:1D:126:CYS:HB3	5:1D:132:PRO:HB3	1.84	0.58
10:8C:954:ARG:HE	10:8C:971:VAL:HG21	1.67	0.58
11:6D:164:PRO:HB2	11:6D:166:PRO:HD2	1.85	0.58
1:C5:354:PHE:HD1	1:Z9:352:ASP:HB3	1.69	0.58
1:X4:133:SER:HB2	1:Y4:104:PRO:HB3	1.84	0.58
1:O4:178:ALA:HB3	1:O4:360:VAL:HB	1.84	0.58
1:RO:262:VAL:HG21	1:RO:310:MET:HG2	1.84	0.58
1:CJ:219:PRO:HG3	1:CJ:369:GLY:HA2	1.85	0.58
2:BI:31:ARG:NH1	2:BI:84:GLU:OE1	2.37	0.58
2:EH:31:ARG:NH1	2:EH:84:GLU:OE1	2.37	0.58
1:R9:145:SER:HB3	1:M9:172:LEU:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R9:265:LEU:HD23	1:R9:379:LYS:HG2	1.86	0.58
1:Q9:171:GLU:CG	1:P9:148:ALA:HB3	2.34	0.58
1:O9:367:ARG:HH22	1:S9:181:ARG:HG3	1.67	0.58
1:H9:288:MET:HE3	1:H9:297:TRP:HE1	1.68	0.58
4:2L:119:LEU:HD12	4:2L:119:LEU:C	2.28	0.58
8:5W:35:ASN:C	8:5V:108:THR:O	2.46	0.58
10:8C:848:GLU:HG3	10:8C:848:GLU:O	2.04	0.58
10:8B:954:ARG:HE	10:8B:971:VAL:HG21	1.67	0.58
2:D3:31:ARG:NH1	2:D3:84:GLU:OE1	2.37	0.58
2:A3:31:ARG:NH1	2:A3:84:GLU:OE1	2.37	0.58
2:BN:31:ARG:NH1	2:BN:84:GLU:OE1	2.37	0.58
2:CM:31:ARG:NH1	2:CM:84:GLU:OE1	2.37	0.58
2:BM:31:ARG:NH1	2:BM:84:GLU:OE1	2.37	0.58
1:ME:219:PRO:HG3	1:ME:369:GLY:HA2	1.85	0.58
1:X9:150:GLU:HG3	1:Z9:91:ASN:HB2	1.86	0.58
1:W9:252:VAL:HG11	2:B8:3:VAL:HG11	1.85	0.58
1:A9:256:ASP:HA	1:A9:259:VAL:HG12	1.86	0.58
1:E9:149:SER:HB3	1:E9:152:ALA:CB	2.33	0.58
2:A6:31:ARG:NH1	2:A6:84:GLU:OE1	2.37	0.58
2:E7:31:ARG:NH1	2:E7:84:GLU:OE1	2.37	0.58
5:1B:76:LEU:HD13	5:1B:352:LEU:HD21	1.84	0.58
5:1J:126:CYS:HB3	5:1J:132:PRO:HB3	1.84	0.58
8:5E:35:ASN:O	8:5D:83:PHE:HZ	1.87	0.58
8:5Q:50:TRP:HA	8:5P:60:ARG:HG2	1.86	0.58
6:4C:111:ARG:CZ	6:4C:111:ARG:HB2	2.33	0.58
11:6B:187:ARG:CB	11:6C:21:GLU:HG2	2.33	0.58
9:7C:251:ASP:OD2	9:7C:253:ARG:NH1	2.34	0.58
11:6C:164:PRO:HB2	11:6C:166:PRO:HD2	1.85	0.58
1:R4:145:SER:HB3	1:M4:172:LEU:HD11	1.85	0.58
2:D2:31:ARG:NH1	2:D2:84:GLU:OE1	2.37	0.58
1:ZO:352:ASP:HB3	1:CK:354:PHE:HD1	1.69	0.58
1:KO:219:PRO:HG3	1:KO:369:GLY:HA2	1.84	0.58
1:AO:167:ILE:HD12	1:AO:370:GLY:HA2	1.85	0.58
1:EO:149:SER:HB3	1:EO:152:ALA:CB	2.34	0.58
2:AM:31:ARG:NH1	2:AM:84:GLU:OE1	2.37	0.58
1:KJ:305:GLU:CB	1:KJ:306:PRO:HD3	2.28	0.58
2:EI:31:ARG:NH1	2:EI:84:GLU:OE1	2.37	0.58
2:DI:31:ARG:NH1	2:DI:84:GLU:OE1	2.37	0.58
2:DH:31:ARG:NH1	2:DH:84:GLU:OE1	2.37	0.58
1:JE:184:ASP:OD2	1:R9:348:ARG:NH2	2.33	0.58
2:DD:28:ASP:OD1	2:DD:70:ARG:NH1	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B9:265:LEU:HD23	1:B9:379:LYS:HG2	1.86	0.58
2:D8:31:ARG:NH1	2:D8:84:GLU:OE1	2.37	0.58
2:A7:31:ARG:NH1	2:A7:84:GLU:OE1	2.37	0.58
2:B7:31:ARG:NH1	2:B7:84:GLU:OE1	2.37	0.58
4:2H:71:ARG:O	4:2H:72:TRP:CD1	2.54	0.58
8:5J:41:VAL:HA	8:5O:28:ARG:HH12	1.67	0.58
4:2F:91:LEU:HD11	4:2F:127:PRO:HD2	1.84	0.58
6:4B:111:ARG:HB2	6:4B:111:ARG:CZ	2.34	0.58
7:3B:39:VAL:HG22	7:3B:61:ILE:HG12	1.86	0.58
1:M4:261:LEU:HD22	1:M4:332:PHE:HB3	1.85	0.58
1:T4:288:MET:HE3	1:T4:297:TRP:HE1	1.68	0.58
1:E4:147:TRP:CZ2	1:F4:209:ALA:HB2	2.37	0.58
2:E2:31:ARG:NH1	2:E2:84:GLU:OE1	2.37	0.58
1:MO:261:LEU:HD22	1:MO:332:PHE:HB3	1.85	0.58
1:TO:288:MET:HE3	1:TO:297:TRP:HE1	1.68	0.58
1:JO:254:ALA:O	1:JO:255:SER:OG	2.21	0.58
1:CO:130:GLU:O	1:CO:344:ARG:NH1	2.37	0.58
2:AN:31:ARG:NH1	2:AN:84:GLU:OE1	2.37	0.58
2:EM:31:ARG:NH1	2:EM:84:GLU:OE1	2.37	0.58
1:XJ:121:ARG:NH1	1:XJ:343:GLU:OE1	2.36	0.58
1:RJ:265:LEU:HD23	1:RJ:379:LYS:HG2	1.85	0.58
1:GJ:133:SER:HB2	1:BJ:104:PRO:HB3	1.85	0.58
1:CJ:130:GLU:O	1:CJ:344:ARG:NH1	2.37	0.58
1:CF:134:PHE:HB3	1:CF:167:ILE:HB	1.86	0.58
1:PE:182:LEU:HB2	1:SE:92:SER:HB2	1.85	0.58
1:JE:254:ALA:O	1:JE:255:SER:OG	2.21	0.58
1:IE:167:ILE:HD12	1:IE:370:GLY:HA2	1.85	0.58
1:IE:252:VAL:HG12	1:IE:253:ASN:HD22	1.67	0.58
1:DE:265:LEU:HD23	1:DE:379:LYS:HG2	1.86	0.58
2:CD:31:ARG:NH1	2:CD:84:GLU:OE1	2.37	0.58
2:DC:31:ARG:NH1	2:DC:84:GLU:OE1	2.37	0.58
1:P9:349:VAL:O	1:P9:349:VAL:HG13	2.03	0.58
4:2A:163:TYR:O	4:2A:166:ARG:NH1	2.36	0.58
4:2B:71:ARG:O	4:2B:72:TRP:CD1	2.54	0.58
4:2J:119:LEU:HD12	4:2J:119:LEU:C	2.28	0.58
4:2E:90:ARG:NH2	4:2E:133:GLU:OE2	2.30	0.58
10:8A:771:ALA:HA	10:8A:782:ILE:HD13	1.86	0.58
10:8C:784:VAL:HG22	10:8C:826:PHE:HB2	1.84	0.58
10:8B:848:GLU:O	10:8B:848:GLU:HG3	2.03	0.58
1:T4:252:VAL:HG11	2:D3:3:VAL:HG11	1.84	0.58
1:J4:254:ALA:O	1:J4:255:SER:OG	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:28:ASP:OD1	2:C3:70:ARG:NH1	2.37	0.58
2:B3:31:ARG:NH1	2:B3:84:GLU:OE1	2.37	0.58
2:A1:31:ARG:NH1	2:A1:84:GLU:OE1	2.37	0.58
1:RO:145:SER:HB3	1:MO:172:LEU:HD11	1.85	0.58
2:DN:28:ASP:OD1	2:DN:70:ARG:NH1	2.37	0.58
1:XJ:139:ASP:HA	1:XJ:162:ILE:HA	1.85	0.58
1:ZJ:352:ASP:HB3	1:CF:354:PHE:HD1	1.69	0.58
1:MJ:159:THR:HG21	1:FJ:90:LEU:H	1.69	0.58
2:EI:28:ASP:OD1	2:EI:70:ARG:NH1	2.37	0.58
2:CI:28:ASP:OD1	2:CI:70:ARG:NH1	2.37	0.58
2:AH:31:ARG:NH1	2:AH:84:GLU:OE1	2.37	0.58
1:RE:265:LEU:HD23	1:RE:379:LYS:HG2	1.86	0.58
1:JE:167:ILE:HD12	1:JE:370:GLY:HA2	1.84	0.58
1:U9:149:SER:HB2	1:U9:152:ALA:HB2	1.85	0.58
2:B8:31:ARG:NH1	2:B8:84:GLU:OE1	2.37	0.58
2:A6:28:ASP:OD1	2:A6:70:ARG:NH1	2.37	0.58
5:1L:76:LEU:HD13	5:1L:352:LEU:HD21	1.84	0.58
8:5Q:97:ASP:HB3	8:5P:72:ASP:HB2	1.85	0.58
8:5J:44:LEU:CD1	8:5O:7:LYS:HA	2.33	0.58
4:2E:196:ARG:NH2	5:1F:216:ASP:OD2	2.35	0.58
1:R4:265:LEU:HD23	1:R4:379:LYS:HG2	1.86	0.58
2:E3:31:ARG:NH1	2:E3:84:GLU:OE1	2.37	0.58
2:D3:28:ASP:OD1	2:D3:70:ARG:NH1	2.37	0.58
2:C3:31:ARG:NH1	2:C3:84:GLU:OE1	2.37	0.58
1:UO:149:SER:HB2	1:UO:152:ALA:HB2	1.85	0.58
2:AL:28:ASP:OD1	2:AL:70:ARG:NH1	2.37	0.58
2:AM:28:ASP:OD1	2:AM:70:ARG:NH1	2.37	0.58
1:HJ:288:MET:HE3	1:HJ:297:TRP:HE1	1.68	0.58
2:EH:28:ASP:OD1	2:EH:70:ARG:NH1	2.37	0.58
1:XE:133:SER:HB2	1:YE:104:PRO:HB3	1.84	0.58
1:ZE:352:ASP:HB3	1:CA:354:PHE:HD1	1.69	0.58
1:UE:289:LYS:HD3	1:UE:293:GLY:HA2	1.86	0.58
1:HE:288:MET:HE3	1:HE:297:TRP:HE1	1.68	0.58
1:M9:261:LEU:HD22	1:M9:332:PHE:HB3	1.85	0.58
2:B7:28:ASP:OD1	2:B7:70:ARG:NH1	2.37	0.58
8:5M:51:ARG:NH1	8:5R:61:SER:OG	2.36	0.58
8:5L:50:TRP:CE3	8:5K:60:ARG:HG3	2.39	0.58
8:5R:97:ASP:HB3	8:5Q:72:ASP:HB2	1.86	0.58
8:5R:98:PHE:HZ	8:5Q:76:ASP:O	1.86	0.58
5:1I:24:SER:OG	5:1H:125:VAL:HG21	2.04	0.58
8:5Q:51:ARG:HB2	8:5P:59:VAL:HG22	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1H:78:CYS:HB2	5:1H:350:ILE:HD11	1.84	0.58
8:5D:28:ARG:HA	8:5C:116:HIS:HB3	1.86	0.58
8:5V:31:ARG:NH1	8:5U:111:ASP:OD2	2.36	0.58
4:2D:119:LEU:HD12	4:2D:119:LEU:C	2.28	0.58
8:5T:41:VAL:HG11	8:5Z:3:ALA:HB2	1.84	0.58
11:6D:181:VAL:HB	11:6D:205:VAL:HB	1.86	0.58
1:J4:288:MET:HE3	1:J4:297:TRP:HE1	1.69	0.58
2:A2:31:ARG:NH1	2:A2:84:GLU:OE1	2.37	0.58
2:C2:31:ARG:NH1	2:C2:84:GLU:OE1	2.37	0.58
2:CM:28:ASP:OD1	2:CM:70:ARG:NH1	2.37	0.58
1:NJ:219:PRO:HG3	1:NJ:369:GLY:HA2	1.86	0.58
1:DJ:223:LEU:O	1:DJ:227:LYS:NZ	2.32	0.58
1:OE:178:ALA:HB3	1:OE:360:VAL:HB	1.84	0.58
1:JE:288:MET:HE3	1:JE:297:TRP:HE1	1.69	0.58
1:HE:275:PHE:HB2	1:HE:314:VAL:HG22	1.85	0.58
2:AB:28:ASP:OD1	2:AB:70:ARG:NH1	2.37	0.58
2:EC:28:ASP:OD1	2:EC:70:ARG:NH1	2.37	0.58
1:CA:262:VAL:HG21	1:CA:310:MET:HG2	1.85	0.58
1:T9:288:MET:HE3	1:T9:297:TRP:HE1	1.68	0.58
2:D8:28:ASP:OD1	2:D8:70:ARG:NH1	2.37	0.58
8:5R:134:PHE:CE2	8:5Q:80:ARG:CZ	2.86	0.58
8:5E:50:TRP:HH2	8:5C:84:PHE:CE1	2.21	0.58
4:2G:163:TYR:O	4:2G:166:ARG:NH1	2.36	0.58
8:5D:50:TRP:CD1	8:5C:131:ALA:HA	2.39	0.58
10:8C:771:ALA:HA	10:8C:782:ILE:HD13	1.86	0.58
11:6E:21:GLU:HG2	11:6D:187:ARG:CB	2.33	0.58
11:6D:48:ASP:HA	11:6D:204:PRO:HA	1.85	0.58
2:A3:28:ASP:OD1	2:A3:70:ARG:NH1	2.37	0.58
1:XO:121:ARG:NH1	1:XO:343:GLU:OE1	2.36	0.58
1:PO:349:VAL:O	1:PO:349:VAL:HG13	2.03	0.58
1:SO:252:VAL:HG11	2:CN:3:VAL:CG1	2.32	0.58
1:GO:133:SER:HB2	1:BO:104:PRO:HB3	1.85	0.58
1:BO:265:LEU:HD23	1:BO:379:LYS:HG2	1.86	0.58
1:OJ:171:GLU:HG2	1:SJ:181:ARG:HH21	1.69	0.58
1:JJ:288:MET:HE3	1:JJ:297:TRP:HE1	1.69	0.58
2:AI:28:ASP:OD1	2:AI:70:ARG:NH1	2.37	0.58
2:DH:28:ASP:OD1	2:DH:70:ARG:NH1	2.37	0.58
2:CH:31:ARG:NH1	2:CH:84:GLU:OE1	2.37	0.58
1:XE:139:ASP:HA	1:XE:162:ILE:HA	1.85	0.58
1:BF:177:LYS:HZ3	4:2E:128:THR:CG2	2.16	0.58
1:NE:219:PRO:HG3	1:NE:369:GLY:HA2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ED:31:ARG:NH1	2:ED:84:GLU:OE1	2.37	0.58
2:AB:31:ARG:NH1	2:AB:84:GLU:OE1	2.37	0.58
2:EC:31:ARG:NH1	2:EC:84:GLU:OE1	2.37	0.58
1:L9:252:VAL:HG11	2:B7:3:VAL:CG1	2.31	0.58
2:B8:28:ASP:OD1	2:B8:70:ARG:NH1	2.37	0.58
2:E7:28:ASP:OD1	2:E7:70:ARG:NH1	2.37	0.58
2:A7:28:ASP:OD1	2:A7:70:ARG:NH1	2.37	0.58
5:1B:139:ARG:NH2	5:1C:185:THR:O	2.36	0.58
7:3A:39:VAL:HG22	7:3A:61:ILE:HG12	1.86	0.58
5:1L:78:CYS:HB2	5:1L:350:ILE:HD11	1.84	0.58
8:5X:34:PHE:O	8:5W:109:SER:CB	2.51	0.58
5:1H:76:LEU:HD13	5:1H:352:LEU:HD21	1.84	0.58
8:5J:134:PHE:HB2	8:5I:84:PHE:HE2	1.69	0.58
5:1F:78:CYS:HB2	5:1F:350:ILE:HD11	1.84	0.58
4:2F:119:LEU:HD12	4:2F:119:LEU:C	2.28	0.58
10:8C:820:ARG:NH2	10:8C:940:ASP:OD1	2.37	0.58
11:6D:18:GLY:HA3	11:6D:47:TYR:HA	1.86	0.58
1:Q4:171:GLU:CG	1:P4:148:ALA:HB3	2.34	0.57
1:TO:252:VAL:HG11	2:DN:3:VAL:HG11	1.84	0.57
1:SO:219:PRO:HG3	1:SO:369:GLY:HA2	1.86	0.57
1:JO:288:MET:HE3	1:JO:297:TRP:HE1	1.69	0.57
2:DM:31:ARG:NH1	2:DM:84:GLU:OE1	2.37	0.57
2:DI:28:ASP:OD1	2:DI:70:ARG:NH1	2.37	0.57
1:CE:219:PRO:HG3	1:CE:369:GLY:HA2	1.85	0.57
2:DD:31:ARG:NH1	2:DD:84:GLU:OE1	2.37	0.57
2:DC:28:ASP:OD1	2:DC:70:ARG:NH1	2.37	0.57
1:I9:167:ILE:HD12	1:I9:370:GLY:HA2	1.85	0.57
2:A8:28:ASP:OD1	2:A8:70:ARG:NH1	2.37	0.57
2:D7:31:ARG:NH1	2:D7:84:GLU:OE1	2.37	0.57
5:1B:159:THR:HG22	5:1B:164:LYS:HG2	1.84	0.57
4:2K:97:VAL:HG12	4:2K:99:THR:HG23	1.86	0.57
7:3F:53:THR:OG1	6:4E:119:LYS:HG3	2.03	0.57
8:5R:34:PHE:HB3	8:5Q:83:PHE:CZ	2.39	0.57
4:2G:196:ARG:NH2	5:1H:216:ASP:OD2	2.35	0.57
4:2H:119:LEU:HD12	4:2H:119:LEU:C	2.29	0.57
6:4D:132:ARG:NH1	6:4D:133:VAL:O	2.37	0.57
8:5U:44:LEU:CD2	8:5Z:10:LEU:HD21	2.26	0.57
8:5O:134:PHE:CD1	8:5N:80:ARG:HD3	2.39	0.57
6:4B:132:ARG:NH1	6:4B:133:VAL:O	2.37	0.57
11:6B:48:ASP:HA	11:6B:204:PRO:HA	1.85	0.57
11:6E:164:PRO:HB2	11:6E:166:PRO:HD2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:8B:820:ARG:NH2	10:8B:940:ASP:OD1	2.37	0.57
1:PO:182:LEU:HB2	1:SO:92:SER:HB2	1.85	0.57
1:WO:252:VAL:HG11	2:BN:3:VAL:HG11	1.84	0.57
1:UJ:289:LYS:HD3	1:UJ:293:GLY:HA2	1.86	0.57
1:DJ:265:LEU:HD23	1:DJ:379:LYS:HG2	1.86	0.57
2:AG:28:ASP:OD1	2:AG:70:ARG:NH1	2.37	0.57
2:AC:28:ASP:OD1	2:AC:70:ARG:NH1	2.37	0.57
2:BC:28:ASP:OD1	2:BC:70:ARG:NH1	2.37	0.57
1:X9:139:ASP:HA	1:X9:162:ILE:HA	1.85	0.57
1:N9:219:PRO:HG3	1:N9:369:GLY:HA2	1.86	0.57
1:V9:254:ALA:O	1:V9:255:SER:OG	2.15	0.57
1:C9:130:GLU:O	1:C9:344:ARG:NH1	2.37	0.57
2:E8:28:ASP:OD1	2:E8:70:ARG:NH1	2.37	0.57
2:C7:28:ASP:OD1	2:C7:70:ARG:NH1	2.37	0.57
4:2K:111:MET:SD	5:1J:239:GLU:OE2	2.61	0.57
8:5X:97:ASP:H	8:5W:70:PHE:HE2	1.52	0.57
4:2I:97:VAL:HG12	4:2I:99:THR:HG23	1.86	0.57
8:5Q:134:PHE:CG	8:5P:80:ARG:HD3	2.40	0.57
7:3C:39:VAL:HG22	7:3C:61:ILE:HG12	1.86	0.57
11:6B:164:PRO:HB2	11:6B:166:PRO:HD2	1.85	0.57
11:6A:195:PHE:CZ	8:5Z:49:GLY:HA2	2.39	0.57
8:52:33:SER:HA	8:51:111:ASP:HB3	1.86	0.57
10:8B:784:VAL:HG22	10:8B:826:PHE:HB2	1.84	0.57
11:6C:195:PHE:CZ	8:51:49:GLY:HA2	2.39	0.57
1:M4:159:THR:HG21	1:F4:90:LEU:H	1.69	0.57
1:O4:171:GLU:HG2	1:S4:181:ARG:HH21	1.69	0.57
1:A4:167:ILE:HD12	1:A4:370:GLY:HA2	1.85	0.57
1:E4:149:SER:HB3	1:E4:152:ALA:CB	2.33	0.57
2:E2:28:ASP:OD1	2:E2:70:ARG:NH1	2.37	0.57
2:B2:28:ASP:OD1	2:B2:70:ARG:NH1	2.37	0.57
1:ZO:251:ALA:O	1:ZO:252:VAL:CG2	2.49	0.57
1:MO:159:THR:HG21	1:FO:90:LEU:H	1.69	0.57
1:QO:171:GLU:CG	1:PO:148:ALA:HB3	2.34	0.57
2:DN:31:ARG:NH1	2:DN:84:GLU:OE1	2.37	0.57
2:AN:28:ASP:OD1	2:AN:70:ARG:NH1	2.37	0.57
1:UJ:254:ALA:O	1:UJ:255:SER:HB3	2.05	0.57
1:EJ:149:SER:HB3	1:EJ:152:ALA:CB	2.34	0.57
2:CI:31:ARG:NH1	2:CI:84:GLU:OE1	2.37	0.57
2:CH:28:ASP:OD1	2:CH:70:ARG:NH1	2.37	0.57
1:YE:344:ARG:HE	1:YE:367:ARG:HD3	1.68	0.57
1:ME:159:THR:HG21	1:FE:90:LEU:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QE:171:GLU:CG	1:PE:148:ALA:HB3	2.34	0.57
1:OE:367:ARG:HH22	1:SE:181:ARG:HG3	1.67	0.57
1:SE:125:SER:OG	1:SE:336:GLY:O	2.22	0.57
1:AE:256:ASP:HA	1:AE:259:VAL:HG12	1.86	0.57
1:CE:130:GLU:O	1:CE:344:ARG:NH1	2.37	0.57
2:AD:31:ARG:NH1	2:AD:84:GLU:OE1	2.37	0.57
2:BD:28:ASP:OD1	2:BD:70:ARG:NH1	2.37	0.57
1:CA:134:PHE:HB3	1:CA:167:ILE:HB	1.86	0.57
1:M9:159:THR:HG21	1:F9:90:LEU:H	1.69	0.57
1:J9:288:MET:HE3	1:J9:297:TRP:HE1	1.69	0.57
2:E8:31:ARG:NH1	2:E8:84:GLU:OE1	2.37	0.57
2:A8:31:ARG:NH1	2:A8:84:GLU:OE1	2.37	0.57
2:D7:28:ASP:OD1	2:D7:70:ARG:NH1	2.37	0.57
8:5S:116:HIS:CG	8:5O:42:THR:O	2.57	0.57
4:2K:163:TYR:O	4:2K:166:ARG:NH1	2.36	0.57
10:8C:139:ILE:HD12	10:8C:144:LEU:HD21	1.86	0.57
11:6F:46:HIS:HA	11:6F:206:VAL:HA	1.86	0.57
10:8B:139:ILE:HD12	10:8B:144:LEU:HD21	1.86	0.57
1:O4:184:ASP:OD2	1:K4:348:ARG:NH2	2.38	0.57
1:I4:167:ILE:HD12	1:I4:370:GLY:HA2	1.85	0.57
1:D4:265:LEU:HD23	1:D4:379:LYS:HG2	1.86	0.57
1:F4:102:VAL:HG13	1:F4:102:VAL:O	2.05	0.57
1:UO:254:ALA:O	1:UO:255:SER:HB3	2.05	0.57
1:AO:219:PRO:HG3	1:AO:369:GLY:HA2	1.87	0.57
2:CN:31:ARG:NH1	2:CN:84:GLU:OE1	2.37	0.57
1:EJ:219:PRO:HG3	1:EJ:369:GLY:HA2	1.87	0.57
1:CF:262:VAL:HG21	1:CF:310:MET:HG2	1.85	0.57
1:GE:133:SER:HB2	1:BE:104:PRO:HB3	1.85	0.57
2:ED:28:ASP:OD1	2:ED:70:ARG:NH1	2.37	0.57
2:CD:28:ASP:OD1	2:CD:70:ARG:NH1	2.37	0.57
2:CC:28:ASP:OD1	2:CC:70:ARG:NH1	2.37	0.57
2:CC:31:ARG:NH1	2:CC:84:GLU:OE1	2.37	0.57
1:BA:154:LEU:HD13	1:BA:154:LEU:O	2.05	0.57
2:C8:31:ARG:NH1	2:C8:84:GLU:OE1	2.37	0.57
4:2K:51:GLU:CD	4:2K:61:ARG:HH12	2.12	0.57
6:4F:111:ARG:CZ	6:4F:111:ARG:HB2	2.34	0.57
8:5X:116:HIS:HB2	8:5N:43:SER:C	2.29	0.57
8:5W:44:LEU:CA	8:5O:116:HIS:CA	2.81	0.57
8:5W:98:PHE:HZ	8:5V:76:ASP:C	2.12	0.57
4:2C:97:VAL:HG12	4:2C:99:THR:HG23	1.86	0.57
11:6B:18:GLY:HA3	11:6B:47:TYR:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:150:GLU:HG3	1:Z4:91:ASN:HB2	1.86	0.57
1:N4:244:GLY:HA3	1:N4:250:ALA:HB2	1.87	0.57
1:W4:334:ASP:OD2	1:W4:337:ASN:ND2	2.38	0.57
1:A4:219:PRO:HG3	1:A4:369:GLY:HA2	1.87	0.57
2:C2:28:ASP:OD1	2:C2:70:ARG:NH1	2.37	0.57
1:NO:219:PRO:HG3	1:NO:369:GLY:HA2	1.86	0.57
1:UO:289:LYS:HD3	1:UO:293:GLY:HA2	1.86	0.57
1:SO:254:ALA:O	1:SO:255:SER:OG	2.18	0.57
1:IO:254:ALA:O	1:IO:255:SER:OG	2.13	0.57
2:EN:28:ASP:OD1	2:EN:70:ARG:NH1	2.37	0.57
2:EM:28:ASP:OD1	2:EM:70:ARG:NH1	2.37	0.57
1:CK:134:PHE:HB3	1:CK:167:ILE:HB	1.86	0.57
1:QJ:171:GLU:CG	1:PJ:148:ALA:HB3	2.34	0.57
1:IJ:167:ILE:HD12	1:IJ:370:GLY:HA2	1.85	0.57
1:AJ:219:PRO:HG3	1:AJ:369:GLY:HA2	1.87	0.57
2:BH:28:ASP:OD1	2:BH:70:ARG:NH1	2.37	0.57
1:NE:244:GLY:HA3	1:NE:250:ALA:HB2	1.87	0.57
2:BD:31:ARG:NH1	2:BD:84:GLU:OE1	2.37	0.57
2:BC:31:ARG:NH1	2:BC:84:GLU:OE1	2.37	0.57
1:S9:125:SER:OG	1:S9:336:GLY:O	2.22	0.57
1:H9:275:PHE:HB2	1:H9:314:VAL:HG22	1.85	0.57
4:2A:86:VAL:HB	4:2A:105:TRP:CH2	2.39	0.57
6:4E:111:ARG:HB2	6:4E:111:ARG:CZ	2.34	0.57
8:5W:51:ARG:NH2	8:5V:61:SER:CB	2.65	0.57
4:2G:90:ARG:NH2	4:2G:133:GLU:OE2	2.30	0.57
6:4D:111:ARG:CZ	6:4D:111:ARG:HB2	2.34	0.57
8:5P:55:GLY:HA2	8:5O:106:MET:HE2	1.85	0.57
11:6B:195:PHE:CE1	8:5O:49:GLY:HA2	2.39	0.57
1:B5:154:LEU:O	1:B5:154:LEU:HD13	2.05	0.57
1:R4:286:ARG:HH12	1:R4:305:GLU:HA	1.69	0.57
1:W4:252:VAL:HG11	2:B3:3:VAL:HG11	1.85	0.57
1:E4:219:PRO:HG3	1:E4:369:GLY:HA2	1.87	0.57
1:B4:265:LEU:HD23	1:B4:379:LYS:HG2	1.86	0.57
2:A1:28:ASP:OD1	2:A1:70:ARG:NH1	2.37	0.57
1:XO:139:ASP:HA	1:XO:162:ILE:HA	1.85	0.57
1:IO:167:ILE:HD12	1:IO:370:GLY:HA2	1.85	0.57
1:EO:219:PRO:HG3	1:EO:369:GLY:HA2	1.87	0.57
2:EN:31:ARG:NH1	2:EN:84:GLU:OE1	2.37	0.57
2:AL:3:VAL:HG13	1:AJ:252:VAL:CG1	2.27	0.57
1:BK:257:ALA:HB1	1:BK:381:LEU:HD11	1.87	0.57
1:NJ:244:GLY:HA3	1:NJ:250:ALA:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RJ:286:ARG:HH12	1:RJ:305:GLU:HA	1.69	0.57
1:FJ:102:VAL:HG13	1:FJ:102:VAL:O	2.05	0.57
2:BH:31:ARG:NH1	2:BH:84:GLU:OE1	2.37	0.57
1:XE:121:ARG:NH1	1:XE:343:GLU:OE1	2.36	0.57
1:NE:177:LYS:HB2	1:FE:90:LEU:HD23	1.87	0.57
1:WE:334:ASP:OD2	1:WE:337:ASN:ND2	2.38	0.57
1:FE:102:VAL:HG13	1:FE:102:VAL:O	2.05	0.57
1:N9:177:LYS:HB2	1:F9:90:LEU:HD23	1.87	0.57
1:N9:244:GLY:HA3	1:N9:250:ALA:HB2	1.87	0.57
1:A9:219:PRO:HG3	1:A9:369:GLY:HA2	1.87	0.57
8:5W:32:ILE:O	8:5V:111:ASP:CB	2.53	0.57
6:4D:4:ALA:HA	6:4C:86:ALA:HB1	1.87	0.57
8:5V:51:ARG:CZ	8:5U:61:SER:HB2	2.34	0.57
6:4C:132:ARG:NH1	6:4C:133:VAL:O	2.37	0.57
11:6B:168:GLY:O	11:6B:170:ARG:NH2	2.38	0.57
11:6D:168:GLY:O	11:6D:170:ARG:NH2	2.38	0.57
1:N4:219:PRO:HG3	1:N4:369:GLY:HA2	1.86	0.57
1:D4:181:ARG:HH21	1:FO:150:GLU:HB2	1.70	0.57
2:D2:28:ASP:OD1	2:D2:70:ARG:NH1	2.37	0.57
2:B2:31:ARG:NH1	2:B2:84:GLU:OE1	2.37	0.57
1:OO:184:ASP:OD2	1:KO:348:ARG:NH2	2.38	0.57
1:MJ:176:PRO:HG2	1:MJ:362:PHE:HB2	1.86	0.57
2:AH:28:ASP:OD1	2:AH:70:ARG:NH1	2.37	0.57
1:BF:154:LEU:O	1:BF:154:LEU:HD13	2.05	0.57
1:LE:252:VAL:HG11	2:BC:3:VAL:CG1	2.31	0.57
1:EE:219:PRO:HG3	1:EE:369:GLY:HA2	1.87	0.57
2:AD:28:ASP:OD1	2:AD:70:ARG:NH1	2.37	0.57
1:W9:334:ASP:OD2	1:W9:337:ASN:ND2	2.38	0.57
6:4F:132:ARG:NH1	6:4F:133:VAL:O	2.37	0.57
8:5X:134:PHE:CD1	8:5W:80:ARG:HD3	2.39	0.57
8:5Q:44:LEU:HD12	8:5U:115:SER:O	2.05	0.57
4:2G:25:LEU:HD12	4:2F:38:ALA:HB2	1.86	0.57
8:5D:50:TRP:CG	8:5C:131:ALA:HA	2.40	0.57
4:2E:51:GLU:CD	4:2E:61:ARG:HH12	2.12	0.57
4:2E:97:VAL:HG12	4:2E:99:THR:HG23	1.86	0.57
4:2F:101:VAL:HB	4:2F:103:ALA:HB2	1.87	0.57
8:5C:94:ILE:CG1	8:5C:100:ILE:HG22	2.32	0.57
11:6A:164:PRO:HB2	11:6A:166:PRO:HD2	1.85	0.57
9:7C:114:ARG:HD3	10:8C:822:GLY:HA3	1.87	0.57
11:6F:168:GLY:O	11:6F:170:ARG:NH2	2.38	0.57
1:CP:134:PHE:HB3	1:CP:167:ILE:HB	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NO:244:GLY:HA3	1:NO:250:ALA:HB2	1.87	0.57
1:AO:181:ARG:HH21	1:BJ:171:GLU:HG2	1.70	0.57
1:AO:256:ASP:HA	1:AO:259:VAL:HG12	1.85	0.57
2:AL:31:ARG:NH1	2:AL:84:GLU:OE1	2.37	0.57
1:NJ:177:LYS:HB2	1:FJ:90:LEU:HD23	1.87	0.57
1:PJ:182:LEU:HB2	1:SJ:92:SER:HB2	1.85	0.57
1:PJ:349:VAL:O	1:PJ:349:VAL:HG13	2.03	0.57
1:HJ:275:PHE:HB2	1:HJ:314:VAL:HG22	1.85	0.57
2:BI:28:ASP:OD1	2:BI:70:ARG:NH1	2.37	0.57
2:AG:31:ARG:NH1	2:AG:84:GLU:OE1	2.37	0.57
1:HE:219:PRO:HG3	1:HE:369:GLY:HA2	1.87	0.57
1:AE:111:ARG:NH1	1:A9:340:THR:OG1	2.36	0.57
1:DE:223:LEU:O	1:DE:227:LYS:NZ	2.32	0.57
2:AC:31:ARG:NH1	2:AC:84:GLU:OE1	2.37	0.57
1:AA:261:LEU:HD13	1:AA:381:LEU:HD12	1.87	0.57
1:C9:219:PRO:HG3	1:C9:369:GLY:HA2	1.85	0.57
6:4A:132:ARG:NH1	6:4A:133:VAL:O	2.37	0.57
8:5S:77:GLU:OE2	8:5S:80:ARG:NH1	2.38	0.57
4:2K:86:VAL:HB	4:2K:105:TRP:CH2	2.39	0.57
8:5L:77:GLU:OE2	8:5L:80:ARG:NH1	2.38	0.57
8:5W:77:GLU:OE2	8:5W:80:ARG:NH1	2.38	0.57
8:5D:50:TRP:CE3	8:5C:132:LEU:HD13	2.39	0.57
8:5V:77:GLU:OE2	8:5V:80:ARG:NH1	2.38	0.57
8:5P:50:TRP:CD2	8:5O:60:ARG:HG3	2.39	0.57
8:5C:44:LEU:HD13	8:5C:44:LEU:C	2.30	0.57
8:5I:31:ARG:NH1	8:5H:111:ASP:OD2	2.38	0.57
4:2C:86:VAL:HB	4:2C:105:TRP:CH2	2.39	0.57
4:2C:163:TYR:O	4:2C:166:ARG:NH1	2.36	0.57
8:5B:77:GLU:OE2	8:5B:80:ARG:NH1	2.38	0.57
9:7A:114:ARG:HD3	10:8A:822:GLY:HA3	1.87	0.57
1:C5:134:PHE:HB3	1:C5:167:ILE:HB	1.86	0.57
1:S4:219:PRO:HG3	1:S4:369:GLY:HA2	1.86	0.57
1:C4:130:GLU:O	1:C4:344:ARG:NH1	2.37	0.57
2:A2:28:ASP:OD1	2:A2:70:ARG:NH1	2.37	0.57
1:ME:176:PRO:HG2	1:ME:362:PHE:HB2	1.86	0.57
1:CA:104:PRO:HB3	1:BA:133:SER:HB2	1.87	0.57
1:J9:254:ALA:O	1:J9:255:SER:OG	2.21	0.57
1:J9:308:ARG:NH2	1:J9:311:GLY:O	2.38	0.57
8:5X:77:GLU:OE2	8:5X:80:ARG:NH1	2.38	0.57
8:5R:77:GLU:OE2	8:5R:80:ARG:NH1	2.38	0.57
8:5E:44:LEU:HD13	8:5E:44:LEU:C	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5E:77:GLU:OE2	8:5E:80:ARG:NH1	2.38	0.57
8:5W:32:ILE:CG2	8:5V:112:TYR:HB2	2.34	0.57
4:2G:51:GLU:CD	4:2G:61:ARG:HH12	2.12	0.57
8:5J:77:GLU:OE2	8:5J:80:ARG:NH1	2.38	0.57
8:5P:77:GLU:OE2	8:5P:80:ARG:NH1	2.38	0.57
4:2E:86:VAL:HB	4:2E:105:TRP:CH2	2.39	0.57
10:8A:848:GLU:HG3	10:8A:848:GLU:O	2.04	0.57
8:5Y:77:GLU:OE2	8:5Y:80:ARG:NH1	2.38	0.57
11:6F:18:GLY:HA3	11:6F:47:TYR:HA	1.86	0.57
11:6E:195:PHE:CZ	8:53:49:GLY:HA2	2.39	0.57
1:M4:176:PRO:HG2	1:M4:362:PHE:HB2	1.86	0.57
1:U4:289:LYS:HD3	1:U4:293:GLY:HA2	1.86	0.57
2:E3:28:ASP:OD1	2:E3:70:ARG:NH1	2.37	0.57
2:B3:28:ASP:OD1	2:B3:70:ARG:NH1	2.37	0.57
1:XO:150:GLU:HG3	1:ZO:91:ASN:HB2	1.86	0.57
1:QO:244:GLY:HA3	1:QO:250:ALA:HB2	1.87	0.57
1:FO:102:VAL:O	1:FO:102:VAL:HG13	2.05	0.57
2:CN:28:ASP:OD1	2:CN:70:ARG:NH1	2.37	0.57
2:BM:28:ASP:OD1	2:BM:70:ARG:NH1	2.37	0.57
1:YJ:344:ARG:HE	1:YJ:367:ARG:HD3	1.68	0.57
1:BK:154:LEU:O	1:BK:154:LEU:HD13	2.05	0.57
1:DJ:181:ARG:HH21	1:FE:150:GLU:HB2	1.70	0.57
1:XE:150:GLU:HG3	1:ZE:91:ASN:HB2	1.86	0.57
1:BF:257:ALA:HB1	1:BF:381:LEU:HD11	1.87	0.57
1:UE:254:ALA:O	1:UE:255:SER:HB3	2.05	0.57
1:CE:265:LEU:HD21	1:CE:269:TYR:HB2	1.87	0.57
1:U9:289:LYS:HD3	1:U9:293:GLY:HA2	1.86	0.57
1:S9:219:PRO:HG3	1:S9:369:GLY:HA2	1.86	0.57
1:F9:102:VAL:HG13	1:F9:102:VAL:O	2.05	0.57
4:2A:51:GLU:CD	4:2A:61:ARG:HH12	2.12	0.57
8:5A:77:GLU:OE2	8:5A:80:ARG:NH1	2.38	0.57
8:5M:77:GLU:OE2	8:5M:80:ARG:NH1	2.38	0.57
4:2K:191:ARG:NH1	5:1J:265:GLU:OE2	2.37	0.57
8:5R:134:PHE:CG	8:5Q:80:ARG:HD3	2.40	0.57
4:2I:86:VAL:HB	4:2I:105:TRP:CH2	2.39	0.57
8:5K:77:GLU:OE2	8:5K:80:ARG:NH1	2.38	0.57
8:5Q:77:GLU:OE2	8:5Q:80:ARG:NH1	2.38	0.57
4:2G:97:VAL:HG12	4:2G:99:THR:HG23	1.86	0.57
5:1G:324:ARG:HH22	5:1F:360:PRO:HB2	1.69	0.57
8:5D:44:LEU:C	8:5D:44:LEU:HD13	2.30	0.57
8:5D:111:ASP:N	8:5D:111:ASP:OD1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2E:163:TYR:O	4:2E:166:ARG:NH1	2.36	0.57
10:8A:120:ALA:HA	10:8A:178:TYR:HA	1.87	0.57
11:6A:34:GLU:CD	11:6F:208:VAL:HG21	2.30	0.57
8:53:77:GLU:OE2	8:53:80:ARG:NH1	2.38	0.57
8:50:77:GLU:OE2	8:50:80:ARG:NH1	2.38	0.57
1:AP:217:ASP:HA	4:2I:125:MET:CE	2.34	0.56
1:BP:257:ALA:HB1	1:BP:381:LEU:HD11	1.87	0.56
1:OO:171:GLU:HG2	1:SO:181:ARG:HH21	1.69	0.56
1:WO:102:VAL:HB	1:VO:132:THR:HG21	1.87	0.56
1:WO:334:ASP:OD2	1:WO:337:ASN:ND2	2.38	0.56
1:DO:265:LEU:HD23	1:DO:379:LYS:HG2	1.86	0.56
1:EO:150:GLU:HA	1:EO:150:GLU:OE1	2.05	0.56
2:BN:28:ASP:OD1	2:BN:70:ARG:NH1	2.37	0.56
2:DM:28:ASP:OD1	2:DM:70:ARG:NH1	2.37	0.56
1:HJ:219:PRO:HG3	1:HJ:369:GLY:HA2	1.87	0.56
1:IJ:254:ALA:O	1:IJ:255:SER:OG	2.13	0.56
2:AI:31:ARG:NH1	2:AI:84:GLU:OE1	2.37	0.56
1:AE:219:PRO:HG3	1:AE:369:GLY:HA2	1.87	0.56
1:D9:265:LEU:HD23	1:D9:379:LYS:HG2	1.86	0.56
2:C7:31:ARG:NH1	2:C7:84:GLU:OE1	2.37	0.56
8:5M:134:PHE:CE2	8:5R:80:ARG:NE	2.73	0.56
4:2I:51:GLU:CD	4:2I:61:ARG:HH12	2.12	0.56
4:2I:90:ARG:NH2	4:2I:133:GLU:OE2	2.30	0.56
4:2J:71:ARG:O	4:2J:72:TRP:CD1	2.54	0.56
8:5W:134:PHE:HB2	8:5V:84:PHE:HE2	1.70	0.56
8:5Q:41:VAL:HA	8:5V:28:ARG:NH1	2.18	0.56
7:3D:53:THR:O	7:3D:53:THR:CG2	2.53	0.56
8:5D:77:GLU:OE2	8:5D:80:ARG:NH1	2.38	0.56
11:6B:181:VAL:HB	11:6B:205:VAL:HB	1.86	0.56
11:6F:23:ARG:HH11	11:6F:23:ARG:HA	1.70	0.56
11:6E:34:GLU:OE2	11:6D:182:ARG:NH1	2.39	0.56
8:52:77:GLU:OE2	8:52:80:ARG:NH1	2.38	0.56
8:50:131:ALA:HA	8:51:50:TRP:CD1	2.40	0.56
1:U4:149:SER:HB2	1:U4:152:ALA:HB2	1.85	0.56
1:S4:125:SER:OG	1:S4:336:GLY:O	2.22	0.56
1:J4:308:ARG:NH2	1:J4:311:GLY:O	2.38	0.56
1:BP:167:ILE:HD12	1:BP:370:GLY:HA2	1.87	0.56
1:AK:191:GLU:OE1	1:AK:351:ARG:NH2	2.38	0.56
1:BK:167:ILE:HD12	1:BK:370:GLY:HA2	1.87	0.56
1:SJ:125:SER:OG	1:SJ:336:GLY:O	2.22	0.56
1:AF:191:GLU:OE1	1:AF:351:ARG:NH2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:261:LEU:HD13	1:AF:381:LEU:HD12	1.87	0.56
1:RE:286:ARG:HH12	1:RE:305:GLU:HA	1.69	0.56
1:UE:265:LEU:HD23	1:UE:379:LYS:HG2	1.87	0.56
1:SE:219:PRO:HG3	1:SE:369:GLY:HA2	1.86	0.56
1:DE:181:ARG:HH21	1:F9:150:GLU:HB2	1.71	0.56
1:FE:220:THR:HB	1:FE:371:ASP:HB3	1.87	0.56
1:O9:184:ASP:OD2	1:K9:348:ARG:NH2	2.38	0.56
1:H9:219:PRO:HG3	1:H9:369:GLY:HA2	1.87	0.56
1:E9:150:GLU:OE1	1:E9:150:GLU:HA	2.05	0.56
2:C8:28:ASP:OD1	2:C8:70:ARG:NH1	2.37	0.56
5:1B:239:GLU:HA	4:2B:1:MET:HE1	1.87	0.56
8:5R:50:TRP:CD2	8:5Q:60:ARG:HG3	2.39	0.56
5:1J:72:ALA:O	5:1J:103:ARG:NH2	2.38	0.56
7:3E:39:VAL:HG22	7:3E:61:ILE:HG12	1.86	0.56
8:5I:77:GLU:OE2	8:5I:80:ARG:NH1	2.38	0.56
4:2D:101:VAL:HB	4:2D:103:ALA:HB2	1.87	0.56
8:51:77:GLU:OE2	8:51:80:ARG:NH1	2.38	0.56
1:B5:167:ILE:HD12	1:B5:370:GLY:HA2	1.87	0.56
1:B5:257:ALA:HB1	1:B5:381:LEU:HD11	1.87	0.56
1:N4:177:LYS:HB2	1:F4:90:LEU:HD23	1.87	0.56
1:Q4:244:GLY:HA3	1:Q4:250:ALA:HB2	1.88	0.56
1:O4:256:ASP:HA	1:O4:259:VAL:HG12	1.87	0.56
1:V4:181:ARG:HG3	1:CP:367:ARG:HH22	1.70	0.56
1:A4:256:ASP:HA	1:A4:259:VAL:HG12	1.85	0.56
1:F4:150:GLU:HB2	1:D9:181:ARG:HH21	1.70	0.56
1:RO:286:ARG:HH12	1:RO:305:GLU:HA	1.69	0.56
1:HO:219:PRO:HG3	1:HO:369:GLY:HA2	1.87	0.56
1:XJ:150:GLU:HG3	1:ZJ:91:ASN:HB2	1.86	0.56
1:YJ:262:VAL:HG21	1:YJ:310:MET:HG2	1.88	0.56
1:BK:167:ILE:HG21	1:BK:342:ALA:HB3	1.88	0.56
1:QJ:244:GLY:HA3	1:QJ:250:ALA:HB2	1.88	0.56
1:WJ:102:VAL:HB	1:VJ:132:THR:HG21	1.87	0.56
1:HJ:265:LEU:HD23	1:HJ:379:LYS:HG2	1.88	0.56
1:GJ:223:LEU:O	1:GJ:227:LYS:NZ	2.33	0.56
1:CJ:265:LEU:HD21	1:CJ:269:TYR:HB2	1.87	0.56
1:BF:167:ILE:HG21	1:BF:342:ALA:HB3	1.88	0.56
1:EE:150:GLU:OE1	1:EE:150:GLU:HA	2.05	0.56
1:BE:265:LEU:HD23	1:BE:379:LYS:HG2	1.86	0.56
1:O9:171:GLU:HG2	1:S9:181:ARG:HH21	1.69	0.56
1:U9:254:ALA:O	1:U9:255:SER:HB3	2.05	0.56
1:E9:219:PRO:HG3	1:E9:369:GLY:HA2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2A:92:VAL:HG13	4:2A:96:GLY:HA2	1.88	0.56
4:2A:97:VAL:HG12	4:2A:99:THR:HG23	1.86	0.56
7:3A:53:THR:O	7:3A:53:THR:CG2	2.53	0.56
4:2L:101:VAL:HB	4:2L:103:ALA:HB2	1.87	0.56
4:2I:92:VAL:HG13	4:2I:96:GLY:HA2	1.87	0.56
6:4E:132:ARG:NH1	6:4E:133:VAL:O	2.37	0.56
8:5W:31:ARG:NH1	8:5V:111:ASP:OD2	2.39	0.56
8:5W:55:GLY:HA3	8:5V:88:VAL:HG13	1.86	0.56
4:2G:92:VAL:HG13	4:2G:96:GLY:HA2	1.88	0.56
7:3D:39:VAL:HG22	7:3D:61:ILE:HG12	1.86	0.56
8:5D:50:TRP:HH2	8:5B:84:PHE:CE1	2.23	0.56
6:4C:4:ALA:HA	6:4B:86:ALA:HB1	1.88	0.56
8:5C:60:ARG:NH1	8:5B:86:GLY:HA3	2.21	0.56
8:5C:77:GLU:OE2	8:5C:80:ARG:NH1	2.38	0.56
8:5U:77:GLU:OE2	8:5U:80:ARG:NH1	2.38	0.56
4:2C:51:GLU:CD	4:2C:61:ARG:HH12	2.12	0.56
4:2C:92:VAL:HG13	4:2C:96:GLY:HA2	1.88	0.56
5:1D:239:GLU:HA	4:2D:1:MET:HE1	1.87	0.56
8:5B:44:LEU:HD13	8:5B:44:LEU:C	2.30	0.56
8:5T:54:LEU:HG	8:5Z:3:ALA:CB	2.34	0.56
8:5N:77:GLU:OE2	8:5N:80:ARG:NH1	2.38	0.56
9:7A:97:THR:HG22	9:7A:114:ARG:HG2	1.87	0.56
9:7A:143:GLY:O	10:8B:866:ARG:NH2	2.36	0.56
10:8A:139:ILE:HD12	10:8A:144:LEU:HD21	1.86	0.56
10:8A:820:ARG:NH2	10:8A:940:ASP:OD1	2.37	0.56
9:7B:114:ARG:HD3	10:8B:822:GLY:HA3	1.87	0.56
10:8B:125:GLU:HG2	10:8B:152:GLY:HA2	1.87	0.56
10:8B:771:ALA:HA	10:8B:782:ILE:HD13	1.86	0.56
11:6D:46:HIS:HA	11:6D:206:VAL:HA	1.87	0.56
1:A5:261:LEU:HD13	1:A5:381:LEU:HD12	1.87	0.56
1:H4:181:ARG:HG3	1:D4:367:ARG:HH22	1.71	0.56
1:H4:265:LEU:HD23	1:H4:379:LYS:HG2	1.88	0.56
1:NO:177:LYS:HB2	1:FO:90:LEU:HD23	1.87	0.56
1:FO:220:THR:HB	1:FO:371:ASP:HB3	1.87	0.56
1:AK:289:LYS:HD2	1:AK:293:GLY:O	2.06	0.56
1:OJ:184:ASP:OD2	1:KJ:348:ARG:NH2	2.38	0.56
1:JJ:288:MET:HA	2:DH:6:LYS:HB3	1.88	0.56
1:AJ:256:ASP:HA	1:AJ:259:VAL:HG12	1.85	0.56
1:CF:104:PRO:HB3	1:BF:133:SER:HB2	1.87	0.56
1:CF:334:ASP:OD2	1:CF:337:ASN:ND2	2.38	0.56
1:N9:142:ASP:HB3	1:O9:115:ARG:HH12	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M9:176:PRO:HG2	1:M9:362:PHE:HB2	1.86	0.56
1:P9:261:LEU:HD22	1:P9:332:PHE:HB3	1.88	0.56
1:U9:265:LEU:HD23	1:U9:379:LYS:HG2	1.87	0.56
6:4A:111:ARG:CZ	6:4A:111:ARG:HB2	2.34	0.56
8:5A:50:TRP:CG	8:5F:131:ALA:HA	2.40	0.56
8:5G:77:GLU:OE2	8:5G:80:ARG:NH1	2.38	0.56
5:1L:72:ALA:O	5:1L:103:ARG:NH2	2.38	0.56
8:5X:44:LEU:HB2	8:51:116:HIS:HA	1.86	0.56
8:5W:44:LEU:HA	8:50:116:HIS:HB2	1.84	0.56
4:2G:86:VAL:HB	4:2G:105:TRP:CH2	2.39	0.56
8:5C:44:LEU:CD2	8:5H:7:LYS:HA	2.36	0.56
8:5C:50:TRP:CD1	8:5B:132:LEU:N	2.70	0.56
8:5O:77:GLU:OE2	8:5O:80:ARG:NH1	2.38	0.56
8:5H:77:GLU:OE2	8:5H:80:ARG:NH1	2.38	0.56
11:6B:46:HIS:HA	11:6B:206:VAL:HA	1.86	0.56
1:C5:256:ASP:HA	1:C5:259:VAL:HG12	1.88	0.56
1:Y4:171:GLU:OE1	1:Y4:348:ARG:NH1	2.39	0.56
1:AP:289:LYS:HD2	1:AP:293:GLY:O	2.06	0.56
1:BP:154:LEU:O	1:BP:154:LEU:HD13	2.05	0.56
1:RO:338:GLY:HA2	1:RO:374:ASP:HB3	1.87	0.56
1:DO:181:ARG:HH21	1:FJ:150:GLU:HB2	1.71	0.56
1:EO:133:SER:HB2	1:FO:104:PRO:HB3	1.88	0.56
1:NE:142:ASP:HB3	1:OE:115:ARG:HH12	1.71	0.56
1:AE:181:ARG:HH21	1:B9:171:GLU:HG2	1.71	0.56
1:DE:136:VAL:HG22	1:DE:165:ILE:HB	1.88	0.56
1:DE:215:GLY:HA2	1:DE:220:THR:HG22	1.88	0.56
1:W9:102:VAL:HB	1:V9:132:THR:HG21	1.87	0.56
1:U9:219:PRO:HG3	1:U9:369:GLY:HA2	1.88	0.56
5:1B:72:ALA:O	5:1B:103:ARG:NH2	2.38	0.56
7:3F:39:VAL:HG22	7:3F:61:ILE:HG12	1.86	0.56
5:1J:239:GLU:HA	4:2J:1:MET:HE1	1.87	0.56
5:1D:72:ALA:O	5:1D:103:ARG:NH2	2.38	0.56
8:5T:77:GLU:OE2	8:5T:80:ARG:NH1	2.38	0.56
9:7A:251:ASP:OD2	9:7A:253:ARG:NH1	2.34	0.56
10:8A:796:MET:HE3	10:8A:800:GLN:HB3	1.88	0.56
8:5Y:131:ALA:HA	8:5Z:50:TRP:CD1	2.40	0.56
8:52:49:GLY:HA2	11:6D:195:PHE:CE1	2.41	0.56
9:7B:97:THR:HG22	9:7B:114:ARG:HG2	1.87	0.56
11:6D:23:ARG:HA	11:6D:23:ARG:HH11	1.70	0.56
1:C5:104:PRO:HB3	1:B5:133:SER:HB2	1.87	0.56
1:J4:288:MET:HA	2:D2:6:LYS:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H4:219:PRO:HG3	1:H4:369:GLY:HA2	1.87	0.56
1:D4:136:VAL:HG22	1:D4:165:ILE:HB	1.88	0.56
1:CP:256:ASP:HA	1:CP:259:VAL:HG12	1.88	0.56
1:CP:334:ASP:OD2	1:CP:337:ASN:ND2	2.38	0.56
1:RJ:167:ILE:HD12	1:RJ:370:GLY:HA2	1.88	0.56
1:OJ:334:ASP:OD2	1:OJ:337:ASN:ND2	2.39	0.56
1:PJ:261:LEU:HD22	1:PJ:332:PHE:HB3	1.88	0.56
1:SJ:254:ALA:O	1:SJ:255:SER:OG	2.18	0.56
1:DJ:215:GLY:HA2	1:DJ:220:THR:HG22	1.88	0.56
1:OE:171:GLU:HG2	1:SE:181:ARG:HH21	1.69	0.56
5:1A:185:THR:O	5:1L:139:ARG:NH2	2.37	0.56
8:5X:134:PHE:CD2	8:5W:80:ARG:CZ	2.89	0.56
8:5R:33:SER:HA	8:5Q:111:ASP:HB3	1.87	0.56
5:1I:76:LEU:HD13	5:1I:352:LEU:HD21	1.88	0.56
8:5W:53:LEU:CB	8:5V:129:ALA:HA	2.17	0.56
8:5V:44:LEU:HD12	8:50:6:GLY:O	2.05	0.56
11:6B:23:ARG:HA	11:6B:23:ARG:HH11	1.70	0.56
8:52:131:ALA:HA	8:53:50:TRP:CD1	2.40	0.56
1:O4:334:ASP:OD2	1:O4:337:ASN:ND2	2.39	0.56
1:OO:256:ASP:HA	1:OO:259:VAL:HG12	1.87	0.56
1:UO:193:TRP:HZ3	1:RJ:89:ALA:HB2	1.71	0.56
1:DO:136:VAL:HG22	1:DO:165:ILE:HB	1.88	0.56
1:FJ:220:THR:HB	1:FJ:371:ASP:HB3	1.87	0.56
1:TE:167:ILE:HD12	1:TE:370:GLY:HA2	1.88	0.56
1:SE:164:ARG:NH1	1:KE:100:TYR:O	2.39	0.56
1:JE:308:ARG:NH2	1:JE:311:GLY:O	2.38	0.56
1:AA:289:LYS:HD2	1:AA:293:GLY:O	2.06	0.56
1:BA:167:ILE:HG21	1:BA:342:ALA:HB3	1.88	0.56
1:S9:164:ARG:NH1	1:K9:100:TYR:O	2.39	0.56
1:H9:181:ARG:HG3	1:D9:367:ARG:HH22	1.71	0.56
1:D9:136:VAL:HG22	1:D9:165:ILE:HB	1.88	0.56
8:5M:7:LYS:O	8:5H:44:LEU:HD21	2.06	0.56
8:5M:34:PHE:HB3	8:5R:83:PHE:CZ	2.41	0.56
8:5D:50:TRP:CZ2	8:5C:132:LEU:HB2	2.40	0.56
4:2E:92:VAL:HG13	4:2E:96:GLY:HA2	1.87	0.56
8:5U:33:SER:CA	8:5T:111:ASP:HB3	2.31	0.56
11:6A:26:ILE:HD13	11:6A:36:ARG:HB3	1.88	0.56
11:6A:34:GLU:OE2	11:6F:208:VAL:HG21	2.06	0.56
1:X4:310:MET:H	1:Y4:302:ALA:HA	1.71	0.56
1:Q4:265:LEU:HD23	1:Q4:379:LYS:HG2	1.88	0.56
1:W4:102:VAL:HB	1:V4:132:THR:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U4:219:PRO:HG3	1:U4:369:GLY:HA2	1.88	0.56
1:SO:125:SER:OG	1:SO:336:GLY:O	2.22	0.56
1:HO:265:LEU:HD23	1:HO:379:LYS:HG2	1.88	0.56
1:BO:219:PRO:HG3	1:BO:369:GLY:HA2	1.88	0.56
1:RJ:338:GLY:HA2	1:RJ:374:ASP:HB3	1.88	0.56
1:QJ:265:LEU:HD23	1:QJ:379:LYS:HG2	1.88	0.56
1:TJ:102:VAL:HB	1:SJ:132:THR:HG21	1.88	0.56
1:SJ:219:PRO:HG3	1:SJ:369:GLY:HA2	1.86	0.56
1:YE:262:VAL:HG21	1:YE:310:MET:HG2	1.88	0.56
1:OE:184:ASP:OD2	1:KE:348:ARG:NH2	2.38	0.56
1:WE:102:VAL:HB	1:VE:132:THR:HG21	1.87	0.56
1:VE:181:ARG:HG3	1:CA:367:ARG:HH22	1.70	0.56
1:HE:265:LEU:HD23	1:HE:379:LYS:HG2	1.88	0.56
1:R9:286:ARG:HH12	1:R9:305:GLU:HA	1.69	0.56
1:O9:256:ASP:HA	1:O9:259:VAL:HG12	1.87	0.56
1:H9:265:LEU:HD23	1:H9:379:LYS:HG2	1.88	0.56
4:2B:101:VAL:HB	4:2B:103:ALA:HB2	1.87	0.56
4:2K:35:GLU:OE1	4:2K:35:GLU:N	2.39	0.56
4:2K:92:VAL:HG13	4:2K:96:GLY:HA2	1.87	0.56
8:5F:77:GLU:OE2	8:5F:80:ARG:NH1	2.38	0.56
8:5E:111:ASP:OD1	8:5E:111:ASP:N	2.38	0.56
8:5K:111:ASP:OD1	8:5K:111:ASP:N	2.39	0.56
5:1G:126:CYS:HB3	5:1G:132:PRO:HB3	1.88	0.56
5:1F:72:ALA:O	5:1F:103:ARG:NH2	2.38	0.56
11:6A:34:GLU:OE2	11:6F:182:ARG:NH1	2.39	0.56
11:6F:181:VAL:HB	11:6F:205:VAL:HB	1.86	0.56
1:C5:167:ILE:HD12	1:C5:370:GLY:HA2	1.88	0.56
1:A5:289:LYS:HD2	1:A5:293:GLY:O	2.06	0.56
1:S4:164:ARG:NH1	1:K4:100:TYR:O	2.39	0.56
1:D4:215:GLY:HA2	1:D4:220:THR:HG22	1.88	0.56
1:YO:262:VAL:HG21	1:YO:310:MET:HG2	1.88	0.56
1:MO:176:PRO:HG2	1:MO:362:PHE:HB2	1.86	0.56
1:OO:334:ASP:OD2	1:OO:337:ASN:ND2	2.39	0.56
1:PO:261:LEU:HD22	1:PO:332:PHE:HB3	1.88	0.56
1:DO:215:GLY:HA2	1:DO:220:THR:HG22	1.88	0.56
1:WJ:334:ASP:OD2	1:WJ:337:ASN:ND2	2.38	0.56
1:LJ:252:VAL:HG11	2:BH:3:VAL:CG1	2.31	0.56
1:DJ:136:VAL:HG22	1:DJ:165:ILE:HB	1.88	0.56
1:FJ:265:LEU:HD23	1:FJ:379:LYS:HG2	1.88	0.56
1:BF:167:ILE:HD12	1:BF:370:GLY:HA2	1.87	0.56
1:UE:219:PRO:HG3	1:UE:369:GLY:HA2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:256:ASP:HA	1:CA:259:VAL:HG12	1.88	0.56
1:BA:257:ALA:HB1	1:BA:381:LEU:HD11	1.87	0.56
1:W9:112:GLY:HA2	1:V9:139:ASP:H	1.71	0.56
5:1B:265:GLU:OE2	4:2C:191:ARG:NH1	2.38	0.56
8:5M:3:ALA:HA	8:5R:71:LYS:HG2	1.88	0.56
8:5F:44:LEU:C	8:5F:44:LEU:HD13	2.30	0.56
8:5F:50:TRP:CE2	8:5E:132:LEU:HB2	2.41	0.56
8:5X:111:ASP:OD1	8:5X:111:ASP:N	2.39	0.56
8:5Q:111:ASP:N	8:5Q:111:ASP:OD1	2.39	0.56
8:5T:44:LEU:CD1	8:5Y:10:LEU:HD21	2.36	0.56
8:5Z:77:GLU:OE2	8:5Z:80:ARG:NH1	2.38	0.56
10:8B:120:ALA:HA	10:8B:178:TYR:HA	1.87	0.56
1:X4:121:ARG:NH1	1:X4:343:GLU:OE1	2.36	0.56
1:E4:150:GLU:OE1	1:E4:150:GLU:HA	2.05	0.56
1:B4:219:PRO:HG3	1:B4:369:GLY:HA2	1.87	0.56
1:OO:262:VAL:HG21	1:OO:310:MET:HG2	1.88	0.56
1:SO:164:ARG:NH1	1:KO:100:TYR:O	2.39	0.56
1:HO:181:ARG:HG3	1:DO:367:ARG:HH22	1.71	0.56
1:BK:351:ARG:C	5:1J:44:ARG:NH2	2.63	0.56
1:WJ:254:ALA:O	1:WJ:255:SER:OG	2.14	0.56
1:UJ:167:ILE:HD12	1:UJ:370:GLY:HA2	1.88	0.56
1:BJ:219:PRO:HG3	1:BJ:369:GLY:HA2	1.88	0.56
1:BJ:265:LEU:HD23	1:BJ:379:LYS:HG2	1.86	0.56
1:YE:171:GLU:OE1	1:YE:348:ARG:NH1	2.39	0.56
1:QE:244:GLY:HA3	1:QE:250:ALA:HB2	1.87	0.56
1:PE:261:LEU:HD22	1:PE:332:PHE:HB3	1.88	0.56
1:BA:167:ILE:HD12	1:BA:370:GLY:HA2	1.87	0.56
1:BA:189:ASP:HB2	5:1E:44:ARG:HB2	1.87	0.56
1:D9:215:GLY:HA2	1:D9:220:THR:HG22	1.88	0.56
5:1K:76:LEU:HD13	5:1K:352:LEU:HD21	1.88	0.56
8:5E:34:PHE:HB3	8:5D:83:PHE:CE2	2.40	0.56
5:1H:72:ALA:O	5:1H:103:ARG:NH2	2.38	0.56
8:5V:97:ASP:H	8:5U:70:PHE:HE2	1.55	0.56
8:50:116:HIS:CD2	8:51:28:ARG:O	2.60	0.56
1:A5:215:GLY:HA2	1:A5:220:THR:HB	1.88	0.55
1:P4:261:LEU:HD22	1:P4:332:PHE:HB3	1.88	0.55
1:F4:162:ILE:HD12	1:I9:98:GLY:HA2	1.88	0.55
1:AP:344:ARG:NH2	5:1K:44:ARG:CD	2.68	0.55
1:TO:102:VAL:HB	1:SO:132:THR:HG21	1.88	0.55
1:JO:308:ARG:NH2	1:JO:311:GLY:O	2.38	0.55
1:VO:181:ARG:HG3	1:CK:367:ARG:HH22	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:256:ASP:HA	1:CK:259:VAL:HG12	1.88	0.55
1:XJ:310:MET:H	1:YJ:302:ALA:HA	1.71	0.55
1:YJ:171:GLU:OE1	1:YJ:348:ARG:NH1	2.39	0.55
1:AK:128:ASN:CB	5:1I:41:TRP:HB2	2.31	0.55
1:WJ:112:GLY:HA2	1:VJ:139:ASP:H	1.71	0.55
1:RE:167:ILE:HD12	1:RE:370:GLY:HA2	1.88	0.55
1:RE:338:GLY:HA2	1:RE:374:ASP:HB3	1.87	0.55
1:CA:334:ASP:OD2	1:CA:337:ASN:ND2	2.38	0.55
1:X9:310:MET:H	1:Y9:302:ALA:HA	1.71	0.55
1:Q9:244:GLY:HA3	1:Q9:250:ALA:HB2	1.88	0.55
1:U9:111:ARG:HH12	1:T9:340:THR:HG1	1.49	0.55
1:T9:167:ILE:HD12	1:T9:370:GLY:HA2	1.88	0.55
1:B9:219:PRO:HG3	1:B9:369:GLY:HA2	1.87	0.55
5:1A:76:LEU:HD13	5:1A:352:LEU:HD21	1.88	0.55
8:5A:44:LEU:C	8:5A:44:LEU:HD13	2.30	0.55
8:5X:32:ILE:O	8:5W:111:ASP:CA	2.55	0.55
8:5X:53:LEU:CB	8:5W:129:ALA:HA	2.23	0.55
4:2H:101:VAL:HB	4:2H:103:ALA:HB2	1.87	0.55
6:4C:50:GLU:OE2	6:4B:82:LYS:NZ	2.35	0.55
8:5U:44:LEU:HD13	8:5Z:10:LEU:CD2	2.36	0.55
8:5T:54:LEU:CD1	8:5Z:3:ALA:CB	2.81	0.55
8:5Y:111:ASP:OD1	8:5Y:111:ASP:N	2.39	0.55
8:52:116:HIS:CD2	8:53:28:ARG:O	2.59	0.55
1:C5:367:ARG:HH22	1:V9:181:ARG:HG3	1.71	0.55
1:T4:172:LEU:HD11	1:S4:145:SER:HB3	1.89	0.55
1:BP:167:ILE:HG21	1:BP:342:ALA:HB3	1.87	0.55
1:UJ:193:TRP:HZ3	1:RE:89:ALA:HB2	1.72	0.55
1:TJ:167:ILE:HD12	1:TJ:370:GLY:HA2	1.88	0.55
1:SJ:265:LEU:HD23	1:SJ:379:LYS:HG2	1.88	0.55
1:AJ:181:ARG:HH21	1:BE:171:GLU:HG2	1.70	0.55
1:OE:256:ASP:HA	1:OE:259:VAL:HG12	1.87	0.55
1:OE:334:ASP:OD2	1:OE:337:ASN:ND2	2.39	0.55
1:K9:133:SER:HB2	1:L9:104:PRO:HB3	1.88	0.55
5:1A:126:CYS:HB3	5:1A:132:PRO:HB3	1.88	0.55
6:4A:52:VAL:HG12	6:4A:54:ASP:H	1.72	0.55
6:4F:52:VAL:HG12	6:4F:54:ASP:H	1.72	0.55
6:4E:52:VAL:HG12	6:4E:54:ASP:H	1.72	0.55
4:2G:35:GLU:N	4:2G:35:GLU:OE1	2.39	0.55
5:1G:76:LEU:HD13	5:1G:352:LEU:HD21	1.88	0.55
8:5V:44:LEU:CG	8:50:7:LYS:C	2.78	0.55
10:8A:818:LEU:HD22	10:8A:820:ARG:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5Y:106:MET:HE3	8:5Z:53:LEU:HG	1.88	0.55
10:8C:120:ALA:HA	10:8C:178:TYR:HA	1.87	0.55
10:8C:796:MET:HE3	10:8C:800:GLN:HB3	1.88	0.55
9:7B:26:ARG:NH2	9:7B:85:ASP:OD2	2.39	0.55
8:50:106:MET:HE3	8:51:53:LEU:HG	1.88	0.55
1:U4:254:ALA:O	1:U4:255:SER:HB3	2.05	0.55
1:E4:133:SER:HB2	1:F4:104:PRO:HB3	1.88	0.55
1:AP:215:GLY:HA2	1:AP:220:THR:HB	1.88	0.55
1:UO:167:ILE:HD12	1:UO:370:GLY:HA2	1.88	0.55
1:TO:167:ILE:HD12	1:TO:370:GLY:HA2	1.88	0.55
1:IO:223:LEU:O	1:IO:227:LYS:NZ	2.31	0.55
1:CK:334:ASP:OD2	1:CK:337:ASN:ND2	2.38	0.55
1:OJ:256:ASP:HA	1:OJ:259:VAL:HG12	1.87	0.55
1:OJ:262:VAL:HG21	1:OJ:310:MET:HG2	1.88	0.55
1:EJ:133:SER:HB2	1:FJ:104:PRO:HB3	1.88	0.55
1:VE:308:ARG:NH2	1:VE:311:GLY:O	2.37	0.55
1:IE:181:ARG:HH21	1:F9:171:GLU:HG2	1.72	0.55
1:Y9:171:GLU:OE1	1:Y9:348:ARG:NH1	2.39	0.55
1:S9:344:ARG:NH1	1:K9:185:ASP:OD1	2.39	0.55
4:2A:91:LEU:HD21	4:2A:127:PRO:HD3	1.89	0.55
8:5X:134:PHE:HB2	8:5W:84:PHE:HE2	1.72	0.55
5:1I:126:CYS:HB3	5:1I:132:PRO:HB3	1.88	0.55
5:1H:239:GLU:HA	4:2H:1:MET:HE1	1.87	0.55
4:2E:111:MET:SD	5:1D:239:GLU:OE2	2.65	0.55
9:7A:26:ARG:NH2	9:7A:85:ASP:OD2	2.40	0.55
11:6E:168:GLY:O	11:6E:170:ARG:NH2	2.40	0.55
1:B5:167:ILE:HG21	1:B5:342:ALA:HB3	1.88	0.55
1:B5:175:MET:HE2	1:B5:361:LEU:HD21	1.89	0.55
1:N4:142:ASP:HB3	1:O4:115:ARG:HH12	1.71	0.55
1:O4:181:ARG:HH21	1:K4:171:GLU:HG2	1.72	0.55
1:U4:265:LEU:HD23	1:U4:379:LYS:HG2	1.87	0.55
1:F4:220:THR:HB	1:F4:371:ASP:HB3	1.87	0.55
1:XO:310:MET:H	1:YO:302:ALA:HA	1.71	0.55
1:AP:130:GLU:OE2	5:1K:47:VAL:HG12	2.03	0.55
1:AP:261:LEU:HD13	1:AP:381:LEU:HD12	1.87	0.55
1:OO:181:ARG:HH21	1:KO:171:GLU:HG2	1.72	0.55
1:SO:265:LEU:HD23	1:SO:379:LYS:HG2	1.88	0.55
1:FO:92:SER:O	1:FO:94:VAL:N	2.40	0.55
1:KJ:288:MET:HE3	1:KJ:297:TRP:HE1	1.72	0.55
1:JJ:308:ARG:NH2	1:JJ:311:GLY:O	2.38	0.55
1:CF:256:ASP:HA	1:CF:259:VAL:HG12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VE:288:MET:HA	2:ED:6:LYS:HB3	1.88	0.55
1:FE:92:SER:O	1:FE:94:VAL:N	2.40	0.55
1:CA:167:ILE:HD12	1:CA:370:GLY:HA2	1.88	0.55
1:T9:102:VAL:HB	1:S9:132:THR:HG21	1.88	0.55
1:J9:183:LEU:HD22	1:J9:360:VAL:HG21	1.89	0.55
1:L9:254:ALA:O	1:L9:255:SER:OG	2.21	0.55
1:C9:265:LEU:HD21	1:C9:269:TYR:HB2	1.87	0.55
8:5S:111:ASP:OD1	8:5S:111:ASP:N	2.39	0.55
5:1L:239:GLU:HA	4:2L:1:MET:HE1	1.87	0.55
6:4F:53:ALA:HB3	6:4F:64:VAL:HB	1.89	0.55
8:5X:116:HIS:HE1	8:5N:42:THR:HG21	1.70	0.55
8:5R:111:ASP:N	8:5R:111:ASP:OD1	2.39	0.55
4:2I:35:GLU:OE1	4:2I:35:GLU:N	2.39	0.55
8:5E:41:VAL:HG13	8:5J:69:VAL:HG21	1.89	0.55
8:5V:44:LEU:HD12	8:5Z:115:SER:O	2.06	0.55
10:8A:125:GLU:HG2	10:8A:152:GLY:HA2	1.87	0.55
9:7C:97:THR:HG22	9:7C:114:ARG:HG2	1.87	0.55
8:50:111:ASP:N	8:50:111:ASP:OD1	2.39	0.55
1:W4:252:VAL:HG12	1:W4:253:ASN:HD22	1.72	0.55
1:S4:344:ARG:NH1	1:K4:185:ASP:OD1	2.39	0.55
1:B4:90:LEU:HD13	1:B4:90:LEU:C	2.32	0.55
1:UO:265:LEU:HD23	1:UO:379:LYS:HG2	1.87	0.55
1:KO:133:SER:HB2	1:LO:104:PRO:HB3	1.88	0.55
1:BO:133:SER:HB2	1:CO:104:PRO:HB3	1.88	0.55
1:CK:104:PRO:HB3	1:BK:133:SER:HB2	1.87	0.55
1:UJ:181:ARG:HH21	1:QE:171:GLU:HG2	1.72	0.55
1:HJ:181:ARG:HG3	1:DJ:367:ARG:HH22	1.71	0.55
1:FE:265:LEU:HD23	1:FE:379:LYS:HG2	1.88	0.55
1:O9:181:ARG:HH21	1:K9:171:GLU:HG2	1.72	0.55
1:F9:92:SER:O	1:F9:94:VAL:N	2.40	0.55
8:5X:32:ILE:CG2	8:5W:112:TYR:HB2	2.37	0.55
8:5R:42:THR:HG21	8:5V:116:HIS:HE1	1.69	0.55
4:2J:101:VAL:HB	4:2J:103:ALA:HB2	1.87	0.55
4:2G:91:LEU:HD21	4:2G:127:PRO:HD3	1.89	0.55
8:5I:44:LEU:HD21	8:5N:7:LYS:O	2.07	0.55
8:5I:134:PHE:HB2	8:5H:84:PHE:HE2	1.71	0.55
4:2C:91:LEU:HD21	4:2C:127:PRO:HD3	1.89	0.55
5:1C:126:CYS:HB3	5:1C:132:PRO:HB3	1.88	0.55
6:4B:53:ALA:HB3	6:4B:64:VAL:HB	1.89	0.55
8:5Z:111:ASP:N	8:5Z:111:ASP:OD1	2.39	0.55
1:Y4:262:VAL:HG21	1:Y4:310:MET:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:179:SER:HA	4:2A:121:ALA:HB2	1.89	0.55
1:C4:265:LEU:HD21	1:C4:269:TYR:HB2	1.87	0.55
1:BP:175:MET:HE2	1:BP:361:LEU:HD21	1.89	0.55
1:WO:265:LEU:HD23	1:WO:379:LYS:HG2	1.89	0.55
1:NJ:142:ASP:HB3	1:OJ:115:ARG:HH12	1.71	0.55
1:UJ:265:LEU:HD23	1:UJ:379:LYS:HG2	1.87	0.55
1:AF:289:LYS:HD2	1:AF:293:GLY:O	2.06	0.55
1:KE:308:ARG:NH2	1:KE:311:GLY:O	2.39	0.55
1:FE:334:ASP:OD2	1:FE:337:ASN:ND2	2.40	0.55
1:F9:223:LEU:O	1:F9:227:LYS:NZ	2.33	0.55
4:2A:35:GLU:H	4:2A:35:GLU:CD	2.13	0.55
8:5A:111:ASP:N	8:5A:111:ASP:OD1	2.38	0.55
8:5M:61:SER:OG	8:5N:51:ARG:NH1	2.39	0.55
4:2L:32:LEU:O	4:2L:32:LEU:HD23	2.07	0.55
8:5X:116:HIS:HB2	8:5N:44:LEU:N	2.21	0.55
8:5L:111:ASP:N	8:5L:111:ASP:OD1	2.39	0.55
8:5R:3:ALA:N	8:5Q:71:LYS:HG2	2.21	0.55
6:4E:40:LEU:CD2	7:3E:54:LEU:HD21	2.37	0.55
8:5V:55:GLY:HA3	8:5U:88:VAL:HG13	1.89	0.55
7:3C:53:THR:O	7:3C:53:THR:CG2	2.53	0.55
8:5U:44:LEU:HG	8:5Z:7:LYS:HA	1.83	0.55
10:8C:866:ARG:NH2	9:7B:143:GLY:O	2.36	0.55
1:J4:183:LEU:HD22	1:J4:360:VAL:HG21	1.89	0.55
1:B4:171:GLU:HG2	1:A9:181:ARG:HH21	1.71	0.55
1:WO:112:GLY:HA2	1:VO:139:ASP:H	1.71	0.55
1:WO:288:MET:HE3	1:WO:297:TRP:HE1	1.72	0.55
1:TO:149:SER:HB2	1:TO:152:ALA:HB2	1.89	0.55
1:CO:265:LEU:HD21	1:CO:269:TYR:HB2	1.87	0.55
1:YJ:211:ILE:HG21	1:YJ:320:MET:HG2	1.89	0.55
1:AK:261:LEU:HD13	1:AK:381:LEU:HD12	1.87	0.55
1:OJ:181:ARG:HH21	1:KJ:171:GLU:HG2	1.72	0.55
1:TJ:256:ASP:HA	1:TJ:259:VAL:HG12	1.89	0.55
1:JJ:256:ASP:CA	1:JJ:259:VAL:HG12	2.37	0.55
1:SE:265:LEU:HD23	1:SE:379:LYS:HG2	1.88	0.55
1:KE:133:SER:HB2	1:LE:104:PRO:HB3	1.88	0.55
1:JE:183:LEU:HD22	1:JE:360:VAL:HG21	1.89	0.55
1:AE:291:ALA:O	2:A6:10:SER:HB2	2.07	0.55
1:R9:338:GLY:HA2	1:R9:374:ASP:HB3	1.87	0.55
1:J9:288:MET:HA	2:D7:6:LYS:HB3	1.88	0.55
1:F9:220:THR:HB	1:F9:371:ASP:HB3	1.87	0.55
1:B9:133:SER:HB2	1:C9:104:PRO:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5F:111:ASP:N	8:5F:111:ASP:OD1	2.38	0.55
6:4D:52:VAL:HG12	6:4D:54:ASP:H	1.72	0.55
4:2E:91:LEU:HD12	4:2E:132:VAL:HA	1.89	0.55
8:5O:44:LEU:O	8:5T:7:LYS:NZ	2.40	0.55
4:2C:91:LEU:HD12	4:2C:132:VAL:HA	1.89	0.55
10:8C:125:GLU:HG2	10:8C:152:GLY:HA2	1.87	0.55
10:8B:796:MET:HE3	10:8B:800:GLN:HB3	1.88	0.55
11:6C:26:ILE:HD13	11:6C:36:ARG:HB3	1.88	0.55
1:C5:334:ASP:OD2	1:C5:337:ASN:ND2	2.38	0.55
1:YO:171:GLU:OE1	1:YO:348:ARG:NH1	2.39	0.55
1:NO:142:ASP:HB3	1:OO:115:ARG:HH12	1.71	0.55
1:UO:181:ARG:HH21	1:QJ:171:GLU:HG2	1.71	0.55
1:IO:265:LEU:HD23	1:IO:379:LYS:HG2	1.89	0.55
1:AO:111:ARG:NH1	1:AJ:340:THR:OG1	2.37	0.55
1:KJ:133:SER:HB2	1:LJ:104:PRO:HB3	1.88	0.55
1:IJ:265:LEU:HD23	1:IJ:379:LYS:HG2	1.89	0.55
1:UE:167:ILE:HD12	1:UE:370:GLY:HA2	1.88	0.55
1:HE:181:ARG:HG3	1:DE:367:ARG:HH22	1.71	0.55
1:BE:90:LEU:HD13	1:BE:90:LEU:C	2.32	0.55
1:BE:133:SER:HB2	1:CE:104:PRO:HB3	1.88	0.55
1:P9:149:SER:C	1:P9:151:THR:N	2.65	0.55
1:W9:265:LEU:HD23	1:W9:379:LYS:HG2	1.89	0.55
1:W9:288:MET:HE3	1:W9:297:TRP:HE1	1.72	0.55
1:T9:134:PHE:HB3	1:T9:167:ILE:HB	1.89	0.55
1:K9:308:ARG:NH2	1:K9:311:GLY:O	2.39	0.55
1:I9:183:LEU:HD22	1:I9:360:VAL:HG21	1.89	0.55
4:2B:32:LEU:HD23	4:2B:32:LEU:O	2.07	0.55
8:5S:41:VAL:HG11	8:5Y:3:ALA:HB1	1.88	0.55
4:2G:91:LEU:HD12	4:2G:132:VAL:HA	1.89	0.55
4:2E:25:LEU:HD12	4:2D:38:ALA:HB2	1.89	0.55
4:2E:35:GLU:OE1	4:2E:35:GLU:N	2.39	0.55
6:4B:40:LEU:CD2	7:3B:54:LEU:HD21	2.37	0.55
9:7C:26:ARG:NH2	9:7C:85:ASP:OD2	2.40	0.55
11:6C:168:GLY:O	11:6C:170:ARG:NH2	2.40	0.55
1:W4:288:MET:HE3	1:W4:297:TRP:HE1	1.72	0.55
1:J4:256:ASP:CA	1:J4:259:VAL:HG12	2.37	0.55
1:A4:111:ARG:NH1	1:AO:340:THR:OG1	2.37	0.55
1:YO:211:ILE:HG21	1:YO:320:MET:HG2	1.89	0.55
1:PO:149:SER:C	1:PO:151:THR:N	2.65	0.55
1:WO:252:VAL:HG12	1:WO:253:ASN:HD22	1.72	0.55
1:JO:344:ARG:HE	1:JO:367:ARG:HD3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IJ:219:PRO:HG3	1:IJ:369:GLY:HA2	1.89	0.55
1:AJ:111:ARG:NH1	1:AE:340:THR:OG1	2.37	0.55
1:EJ:150:GLU:OE1	1:EJ:150:GLU:HA	2.05	0.55
1:EJ:277:MET:HG2	1:EJ:330:ILE:HG12	1.89	0.55
1:OE:181:ARG:HH21	1:KE:171:GLU:HG2	1.72	0.55
1:KE:288:MET:HE3	1:KE:297:TRP:HE1	1.72	0.55
1:Y9:262:VAL:HG21	1:Y9:310:MET:HG2	1.88	0.55
1:AA:199:ALA:HB2	5:1D:38:ARG:NH2	2.21	0.55
1:O9:262:VAL:HG21	1:O9:310:MET:HG2	1.88	0.55
1:O9:334:ASP:OD2	1:O9:337:ASN:ND2	2.39	0.55
1:S9:367:ARG:HH22	1:K9:181:ARG:HG3	1.71	0.55
6:4A:53:ALA:HB3	6:4A:64:VAL:HB	1.89	0.55
8:5S:50:TRP:HZ2	8:5W:84:PHE:CG	2.19	0.55
8:5M:4:GLN:HG3	8:5R:70:PHE:CD2	2.42	0.55
4:2I:91:LEU:HD12	4:2I:132:VAL:HA	1.89	0.55
5:1J:142:ARG:NH2	5:1J:158:TYR:OH	2.40	0.55
8:5E:50:TRP:CB	8:5D:131:ALA:HA	2.37	0.55
8:5W:95:ILE:HG22	8:5V:70:PHE:CE2	2.41	0.55
8:5D:60:ARG:NH1	8:5C:86:GLY:HA3	2.22	0.55
6:4C:53:ALA:HB3	6:4C:64:VAL:HB	1.89	0.55
8:5T:111:ASP:N	8:5T:111:ASP:OD1	2.39	0.55
8:5H:94:ILE:HG12	8:5H:100:ILE:HG22	1.89	0.55
11:6B:36:ARG:HE	11:6A:73:LEU:HA	1.72	0.55
11:6A:168:GLY:O	11:6A:170:ARG:NH2	2.40	0.55
8:5Y:94:ILE:HG12	8:5Y:100:ILE:HG22	1.89	0.55
11:6E:26:ILE:HD13	11:6E:36:ARG:HB3	1.88	0.55
8:52:94:ILE:HG12	8:52:100:ILE:HG22	1.89	0.55
8:53:94:ILE:HG12	8:53:100:ILE:HG22	1.89	0.55
1:R4:338:GLY:HA2	1:R4:374:ASP:HB3	1.88	0.55
1:T4:167:ILE:HD12	1:T4:370:GLY:HA2	1.88	0.55
1:JO:288:MET:HA	2:DM:6:LYS:HB3	1.88	0.55
1:IJ:252:VAL:HG11	2:DH:3:VAL:CG1	2.37	0.55
1:FJ:334:ASP:OD2	1:FJ:337:ASN:ND2	2.40	0.55
1:XE:310:MET:H	1:YE:302:ALA:HA	1.71	0.55
1:NE:284:ALA:HA	1:NE:287:LYS:HD3	1.89	0.55
1:Q9:265:LEU:HD23	1:Q9:379:LYS:HG2	1.88	0.55
1:V9:288:MET:HA	2:E8:6:LYS:HB3	1.88	0.55
8:5A:4:GLN:HG3	8:5A:96:PRO:HB2	1.89	0.55
8:5S:94:ILE:HG12	8:5S:100:ILE:HG22	1.89	0.55
8:5G:111:ASP:N	8:5G:111:ASP:OD1	2.39	0.55
8:5M:51:ARG:HB2	8:5R:59:VAL:HG22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5F:4:GLN:HG3	8:5F:96:PRO:HB2	1.89	0.55
8:5X:35:ASN:C	8:5W:108:THR:O	2.50	0.55
8:5E:4:GLN:HG3	8:5E:96:PRO:HB2	1.89	0.55
8:5U:94:ILE:HG12	8:5U:100:ILE:HG22	1.89	0.55
8:5O:94:ILE:HG12	8:5O:100:ILE:HG22	1.89	0.55
4:2C:35:GLU:H	4:2C:35:GLU:CD	2.13	0.55
4:2D:32:LEU:O	4:2D:32:LEU:HD23	2.07	0.55
8:5N:94:ILE:HG12	8:5N:100:ILE:HG22	1.89	0.55
8:5Y:116:HIS:CD2	8:5Z:28:ARG:O	2.60	0.55
8:5I:111:ASP:OD1	8:5I:111:ASP:N	2.39	0.55
1:N4:284:ALA:HA	1:N4:287:LYS:HD3	1.89	0.54
1:U4:167:ILE:HD12	1:U4:370:GLY:HA2	1.88	0.54
1:CP:104:PRO:HB3	1:BP:133:SER:HB2	1.87	0.54
1:CP:167:ILE:HD12	1:CP:370:GLY:HA2	1.88	0.54
1:NO:334:ASP:OD2	1:NO:337:ASN:ND2	2.40	0.54
1:UO:219:PRO:HG3	1:UO:369:GLY:HA2	1.88	0.54
1:JO:219:PRO:HG3	1:JO:369:GLY:HA2	1.89	0.54
1:NJ:334:ASP:OD2	1:NJ:337:ASN:ND2	2.40	0.54
1:UJ:219:PRO:HG3	1:UJ:369:GLY:HA2	1.88	0.54
1:JJ:344:ARG:HE	1:JJ:367:ARG:HD3	1.72	0.54
1:VJ:181:ARG:HG3	1:CF:367:ARG:HH22	1.71	0.54
1:LJ:125:SER:OG	1:LJ:336:GLY:O	2.25	0.54
1:FJ:92:SER:O	1:FJ:94:VAL:N	2.40	0.54
1:BJ:90:LEU:HD13	1:BJ:90:LEU:C	2.32	0.54
1:TE:256:ASP:HA	1:TE:259:VAL:HG12	1.89	0.54
1:JE:288:MET:HA	2:DC:6:LYS:HB3	1.88	0.54
1:JE:344:ARG:HE	1:JE:367:ARG:HD3	1.72	0.54
1:EE:133:SER:HB2	1:FE:104:PRO:HB3	1.88	0.54
1:BE:219:PRO:HG3	1:BE:369:GLY:HA2	1.87	0.54
1:W9:252:VAL:HG12	1:W9:253:ASN:HD22	1.72	0.54
8:5A:132:LEU:HD13	8:5B:50:TRP:CE3	2.41	0.54
8:5S:34:PHE:HB3	8:5X:83:PHE:CZ	2.42	0.54
8:5G:94:ILE:HG12	8:5G:100:ILE:HG22	1.89	0.54
8:5M:111:ASP:OD1	8:5M:111:ASP:N	2.39	0.54
6:4F:40:LEU:CD2	7:3F:54:LEU:HD21	2.37	0.54
8:5X:34:PHE:HB3	8:5W:83:PHE:CZ	2.42	0.54
8:5X:44:LEU:CB	8:5I:116:HIS:CB	2.85	0.54
8:5L:94:ILE:HG12	8:5L:100:ILE:HG22	1.89	0.54
6:4E:53:ALA:HB3	6:4E:64:VAL:HB	1.89	0.54
5:1F:142:ARG:NH2	5:1F:158:TYR:OH	2.40	0.54
4:2D:71:ARG:O	4:2D:72:TRP:CD1	2.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4B:52:VAL:HG12	6:4B:54:ASP:H	1.72	0.54
8:5T:94:ILE:HG12	8:5T:100:ILE:HG22	1.89	0.54
11:6F:193:GLN:OE1	11:6F:193:GLN:HA	2.07	0.54
11:6D:184:ASP:OD2	11:6D:206:VAL:HG13	2.07	0.54
1:N4:182:LEU:C	1:N4:182:LEU:HD13	2.32	0.54
1:N4:334:ASP:OD2	1:N4:337:ASN:ND2	2.40	0.54
1:T4:102:VAL:HB	1:S4:132:THR:HG21	1.88	0.54
1:T4:134:PHE:HB3	1:T4:167:ILE:HB	1.89	0.54
1:J4:344:ARG:HE	1:J4:367:ARG:HD3	1.72	0.54
1:A4:181:ARG:HH21	1:BO:171:GLU:HG2	1.71	0.54
1:D4:219:PRO:HG3	1:D4:369:GLY:HA2	1.90	0.54
1:F4:265:LEU:HD23	1:F4:379:LYS:HG2	1.88	0.54
1:F4:334:ASP:OD2	1:F4:337:ASN:ND2	2.40	0.54
1:B4:133:SER:HB2	1:C4:104:PRO:HB3	1.88	0.54
1:BP:347:LEU:HD23	5:1L:162:GLY:N	2.22	0.54
1:QO:265:LEU:HD23	1:QO:379:LYS:HG2	1.88	0.54
1:TO:172:LEU:HD11	1:SO:145:SER:HB3	1.89	0.54
1:IO:181:ARG:HH21	1:FJ:171:GLU:HG2	1.71	0.54
1:AK:215:GLY:HA2	1:AK:220:THR:HB	1.88	0.54
1:WJ:252:VAL:HG12	1:WJ:253:ASN:HD22	1.72	0.54
1:TJ:172:LEU:HD11	1:SJ:145:SER:HB3	1.89	0.54
1:IJ:181:ARG:HH21	1:FE:171:GLU:HG2	1.72	0.54
1:QE:265:LEU:HD23	1:QE:379:LYS:HG2	1.88	0.54
1:OE:262:VAL:HG21	1:OE:310:MET:HG2	1.88	0.54
1:UE:193:TRP:HZ3	1:R9:89:ALA:HB2	1.72	0.54
1:AA:215:GLY:HA2	1:AA:220:THR:HB	1.88	0.54
8:5A:83:PHE:HZ	8:5B:35:ASN:O	1.90	0.54
8:5G:10:LEU:HD21	8:5B:44:LEU:HG	1.90	0.54
8:5M:44:LEU:HG	8:5X:7:LYS:HA	1.87	0.54
4:2K:91:LEU:HD12	4:2K:132:VAL:HA	1.89	0.54
6:4F:73:THR:HG22	6:4F:75:ALA:H	1.73	0.54
8:5X:32:ILE:O	8:5W:111:ASP:CB	2.55	0.54
4:2I:25:LEU:HD12	4:2H:38:ALA:HB2	1.88	0.54
8:5W:94:ILE:HG12	8:5W:100:ILE:HG22	1.89	0.54
8:5W:111:ASP:N	8:5W:111:ASP:OD1	2.39	0.54
8:5W:134:PHE:CD2	8:5V:80:ARG:CZ	2.91	0.54
4:2G:108:VAL:HG13	4:2F:68:THR:HG21	1.88	0.54
8:5V:94:ILE:HG12	8:5V:100:ILE:HG22	1.89	0.54
8:5P:94:ILE:HG12	8:5P:100:ILE:HG22	1.89	0.54
5:1E:126:CYS:HB3	5:1E:132:PRO:HB3	1.88	0.54
6:4C:52:VAL:HG12	6:4C:54:ASP:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5I:94:ILE:HG12	8:5I:100:ILE:HG22	1.89	0.54
4:2C:15:PRO:HB2	4:2C:18:GLU:HB3	1.89	0.54
6:4B:77:GLY:HA3	7:3B:24:GLY:HA3	1.90	0.54
8:5N:111:ASP:OD1	8:5N:111:ASP:N	2.39	0.54
11:6B:193:GLN:OE1	11:6B:193:GLN:HA	2.07	0.54
8:53:111:ASP:N	8:53:111:ASP:OD1	2.39	0.54
1:T4:149:SER:HB2	1:T4:152:ALA:HB2	1.89	0.54
1:S4:265:LEU:HD23	1:S4:379:LYS:HG2	1.88	0.54
1:S4:367:ARG:HH22	1:K4:181:ARG:HG3	1.71	0.54
1:K4:254:ALA:O	1:K4:255:SER:HB3	2.08	0.54
1:J4:219:PRO:HG3	1:J4:369:GLY:HA2	1.89	0.54
1:I4:98:GLY:HA2	1:FO:162:ILE:HD12	1.89	0.54
1:F4:133:SER:HB2	1:G4:104:PRO:HB3	1.89	0.54
1:JO:256:ASP:CA	1:JO:259:VAL:HG12	2.37	0.54
1:IO:219:PRO:HG3	1:IO:369:GLY:HA2	1.89	0.54
1:DO:219:PRO:HG3	1:DO:369:GLY:HA2	1.90	0.54
1:FO:334:ASP:OD2	1:FO:337:ASN:ND2	2.40	0.54
1:CK:167:ILE:HD12	1:CK:370:GLY:HA2	1.88	0.54
1:BK:175:MET:HE2	1:BK:361:LEU:HD21	1.89	0.54
1:NJ:182:LEU:HD13	1:NJ:182:LEU:C	2.32	0.54
1:SJ:164:ARG:NH1	1:KJ:100:TYR:O	2.39	0.54
1:YE:211:ILE:HG21	1:YE:320:MET:HG2	1.89	0.54
1:WE:265:LEU:HD23	1:WE:379:LYS:HG2	1.89	0.54
1:UE:181:ARG:HH21	1:Q9:171:GLU:HG2	1.72	0.54
1:Y9:256:ASP:HB2	1:Z9:287:LYS:HE2	1.90	0.54
1:J9:256:ASP:CA	1:J9:259:VAL:HG12	2.37	0.54
1:F9:133:SER:HB2	1:G9:104:PRO:HB3	1.89	0.54
8:5M:83:PHE:CZ	8:5N:34:PHE:HB3	2.41	0.54
8:5M:94:ILE:HG12	8:5M:100:ILE:HG22	1.89	0.54
4:2K:35:GLU:H	4:2K:35:GLU:CD	2.13	0.54
6:4F:57:ASP:OD2	8:5E:25:ALA:O	2.25	0.54
4:2G:15:PRO:HB2	4:2G:18:GLU:HB3	1.89	0.54
4:2G:153:GLN:HE21	4:2F:45:ALA:CB	2.21	0.54
5:1H:125:VAL:HB	5:1H:134:GLU:HB2	1.90	0.54
8:5J:94:ILE:HG12	8:5J:100:ILE:HG22	1.89	0.54
8:5P:44:LEU:O	8:5U:7:LYS:CE	2.54	0.54
8:5C:111:ASP:N	8:5C:111:ASP:OD1	2.38	0.54
5:1C:76:LEU:HD13	5:1C:352:LEU:HD21	1.88	0.54
8:5H:111:ASP:OD1	8:5H:111:ASP:N	2.39	0.54
10:8C:818:LEU:HD22	10:8C:820:ARG:HG3	1.88	0.54
11:6D:36:ARG:HE	11:6C:73:LEU:HA	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R4:89:ALA:HB2	1:U9:193:TRP:HZ3	1.72	0.54
1:DO:223:LEU:O	1:DO:227:LYS:NZ	2.32	0.54
1:FO:219:PRO:HG3	1:FO:369:GLY:HA2	1.89	0.54
1:SJ:367:ARG:HH22	1:KJ:181:ARG:HG3	1.71	0.54
1:JJ:219:PRO:HG3	1:JJ:369:GLY:HA2	1.89	0.54
1:AJ:334:ASP:OD2	1:AJ:337:ASN:ND2	2.40	0.54
1:DJ:219:PRO:HG3	1:DJ:369:GLY:HA2	1.90	0.54
1:CF:167:ILE:HD12	1:CF:370:GLY:HA2	1.88	0.54
1:PE:149:SER:C	1:PE:151:THR:N	2.65	0.54
1:TE:102:VAL:HB	1:SE:132:THR:HG21	1.88	0.54
1:EE:223:LEU:O	1:EE:227:LYS:NZ	2.33	0.54
1:EE:277:MET:HG2	1:EE:330:ILE:HG12	1.89	0.54
5:1K:126:CYS:HB3	5:1K:132:PRO:HB3	1.88	0.54
8:5X:94:ILE:HG12	8:5X:100:ILE:HG22	1.89	0.54
8:5R:94:ILE:HG12	8:5R:100:ILE:HG22	1.89	0.54
4:2I:91:LEU:HD21	4:2I:127:PRO:HD3	1.89	0.54
8:5W:51:ARG:CZ	8:5V:61:SER:OG	2.52	0.54
8:5D:4:GLN:HG3	8:5D:96:PRO:HB2	1.89	0.54
5:1E:76:LEU:HD13	5:1E:352:LEU:HD21	1.88	0.54
6:4C:104:LEU:HA	6:4C:133:VAL:HA	1.90	0.54
8:5B:4:GLN:HG3	8:5B:96:PRO:HB2	1.89	0.54
11:6F:184:ASP:OD2	11:6F:206:VAL:HG13	2.07	0.54
11:6D:193:GLN:HA	11:6D:193:GLN:OE1	2.07	0.54
1:W4:112:GLY:HA2	1:V4:139:ASP:H	1.71	0.54
1:V4:288:MET:HA	2:E3:6:LYS:HB3	1.88	0.54
1:F4:92:SER:O	1:F4:94:VAL:N	2.40	0.54
1:AP:344:ARG:HH22	5:1K:44:ARG:HD2	1.72	0.54
1:QO:219:PRO:HG3	1:QO:369:GLY:HA2	1.90	0.54
1:KO:288:MET:HE3	1:KO:297:TRP:HE1	1.72	0.54
1:KO:305:GLU:CB	1:KO:306:PRO:HD3	2.28	0.54
1:IO:125:SER:OG	1:IO:336:GLY:O	2.26	0.54
1:FO:265:LEU:HD23	1:FO:379:LYS:HG2	1.88	0.54
1:YJ:256:ASP:HB2	1:ZJ:287:LYS:HE2	1.90	0.54
1:TJ:149:SER:HB2	1:TJ:152:ALA:HB2	1.89	0.54
1:KJ:148:ALA:O	1:EJ:181:ARG:NH2	2.41	0.54
1:IJ:183:LEU:HD22	1:IJ:360:VAL:HG21	1.89	0.54
1:FJ:133:SER:HB2	1:GJ:104:PRO:HB3	1.89	0.54
1:FJ:219:PRO:HG3	1:FJ:369:GLY:HA2	1.89	0.54
1:YE:219:PRO:HG3	1:YE:369:GLY:HA2	1.90	0.54
1:YE:256:ASP:HB2	1:ZE:287:LYS:HE2	1.90	0.54
1:QE:219:PRO:HG3	1:QE:369:GLY:HA2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UE:357:LYS:NZ	1:Q9:352:ASP:OD2	2.38	0.54
1:IE:223:LEU:O	1:IE:227:LYS:NZ	2.31	0.54
1:AE:334:ASP:OD2	1:AE:337:ASN:ND2	2.40	0.54
1:BA:175:MET:HE2	1:BA:361:LEU:HD21	1.89	0.54
1:T9:172:LEU:HD11	1:S9:145:SER:HB3	1.89	0.54
1:K9:288:MET:HE3	1:K9:297:TRP:HE1	1.72	0.54
1:E9:133:SER:HB2	1:F9:104:PRO:HB3	1.88	0.54
8:5A:44:LEU:HG	8:5L:10:LEU:HD21	1.90	0.54
4:2J:32:LEU:HD23	4:2J:32:LEU:O	2.07	0.54
4:2E:91:LEU:HD21	4:2E:127:PRO:HD3	1.89	0.54
8:5T:44:LEU:HD13	8:5Y:10:LEU:CD2	2.37	0.54
10:8A:836:ASP:HA	10:8A:943:ARG:HB3	1.89	0.54
11:6B:184:ASP:OD2	11:6B:206:VAL:HG13	2.07	0.54
8:5Z:71:LYS:HG2	8:50:3:ALA:HA	1.89	0.54
8:5Z:94:ILE:HG12	8:5Z:100:ILE:HG22	1.89	0.54
1:Z4:130:GLU:OE1	1:Z4:344:ARG:NH2	2.41	0.54
1:O4:262:VAL:HG21	1:O4:310:MET:HG2	1.88	0.54
1:I4:252:VAL:HG11	2:D2:3:VAL:CG1	2.37	0.54
2:A1:32:ARG:NH2	2:A1:67:ARG:O	2.41	0.54
1:RO:167:ILE:HD12	1:RO:370:GLY:HA2	1.88	0.54
1:TO:256:ASP:HA	1:TO:259:VAL:HG12	1.89	0.54
1:JO:181:ARG:HG3	1:RJ:367:ARG:HH12	1.72	0.54
1:QJ:219:PRO:HG3	1:QJ:369:GLY:HA2	1.90	0.54
1:WJ:265:LEU:HD23	1:WJ:379:LYS:HG2	1.89	0.54
1:WJ:288:MET:HE3	1:WJ:297:TRP:HE1	1.72	0.54
1:BJ:133:SER:HB2	1:CJ:104:PRO:HB3	1.88	0.54
2:BD:32:ARG:NH2	2:BD:67:ARG:O	2.41	0.54
1:BA:189:ASP:HA	5:1E:44:ARG:HD3	1.88	0.54
1:I9:125:SER:OG	1:I9:336:GLY:O	2.26	0.54
1:F9:334:ASP:OD2	1:F9:337:ASN:ND2	2.40	0.54
5:1A:72:ALA:O	5:1A:103:ARG:NH2	2.41	0.54
6:4A:73:THR:HG22	6:4A:75:ALA:H	1.73	0.54
4:2K:15:PRO:HB2	4:2K:18:GLU:HB3	1.89	0.54
5:1J:125:VAL:HB	5:1J:134:GLU:HB2	1.90	0.54
6:4E:73:THR:HG22	6:4E:75:ALA:H	1.73	0.54
8:5K:94:ILE:HG12	8:5K:100:ILE:HG22	1.89	0.54
8:5J:111:ASP:N	8:5J:111:ASP:OD1	2.39	0.54
6:4C:77:GLY:HA3	7:3C:24:GLY:HA3	1.90	0.54
8:5U:51:ARG:NH2	8:5T:61:SER:CB	2.70	0.54
8:5U:111:ASP:N	8:5U:111:ASP:OD1	2.39	0.54
11:6F:36:ARG:HE	11:6E:73:LEU:HA	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:6F:161:PHE:HD2	11:6F:168:GLY:HA3	1.73	0.54
8:52:106:MET:HE3	8:53:53:LEU:HG	1.88	0.54
10:8B:818:LEU:HD22	10:8B:820:ARG:HG3	1.88	0.54
1:Y4:211:ILE:HG21	1:Y4:320:MET:HG2	1.89	0.54
1:Q4:219:PRO:HG3	1:Q4:369:GLY:HA2	1.90	0.54
1:U4:193:TRP:HZ3	1:RO:89:ALA:HB2	1.71	0.54
1:K4:308:ARG:NH2	1:K4:311:GLY:O	2.39	0.54
1:L4:125:SER:OG	1:L4:336:GLY:O	2.25	0.54
1:I4:125:SER:OG	1:I4:336:GLY:O	2.26	0.54
1:F4:171:GLU:HG2	1:I9:181:ARG:HH21	1.72	0.54
1:JO:181:ARG:HG3	1:RJ:367:ARG:HH22	1.72	0.54
1:VO:308:ARG:NH2	1:VO:311:GLY:O	2.38	0.54
1:IO:98:GLY:HA2	1:FJ:162:ILE:HD12	1.89	0.54
1:BO:90:LEU:HD13	1:BO:90:LEU:C	2.32	0.54
2:BN:32:ARG:NH2	2:BN:67:ARG:O	2.41	0.54
1:WJ:125:SER:OG	1:WJ:336:GLY:O	2.26	0.54
1:KJ:308:ARG:NH2	1:KJ:311:GLY:O	2.39	0.54
1:YE:100:TYR:O	1:PE:164:ARG:NH1	2.41	0.54
1:AF:215:GLY:HA2	1:AF:220:THR:HB	1.88	0.54
1:WE:125:SER:OG	1:WE:336:GLY:O	2.26	0.54
1:WE:252:VAL:HG12	1:WE:253:ASN:HD22	1.72	0.54
1:WE:288:MET:HE3	1:WE:297:TRP:HE1	1.72	0.54
1:IE:183:LEU:HD22	1:IE:360:VAL:HG21	1.89	0.54
1:FE:133:SER:HB2	1:GE:104:PRO:HB3	1.89	0.54
1:X9:308:ARG:NH1	1:X9:311:GLY:O	2.41	0.54
1:Y9:100:TYR:O	1:P9:164:ARG:NH1	2.41	0.54
1:N9:182:LEU:HD13	1:N9:182:LEU:C	2.32	0.54
1:Q9:219:PRO:HG3	1:Q9:369:GLY:HA2	1.90	0.54
1:S9:265:LEU:HD23	1:S9:379:LYS:HG2	1.88	0.54
1:K9:148:ALA:O	1:E9:181:ARG:NH2	2.41	0.54
4:2A:91:LEU:HD12	4:2A:132:VAL:HA	1.89	0.54
8:5X:32:ILE:O	8:5W:111:ASP:HB2	2.08	0.54
8:5R:134:PHE:CD2	8:5Q:80:ARG:CZ	2.90	0.54
8:5W:44:LEU:O	8:5I:7:LYS:CE	2.55	0.54
6:4D:104:LEU:HA	6:4D:133:VAL:HA	1.90	0.54
8:5P:44:LEU:CB	8:5T:116:HIS:HA	2.37	0.54
4:2E:35:GLU:CD	4:2E:35:GLU:H	2.13	0.54
5:1F:239:GLU:HA	4:2F:1:MET:HE1	1.87	0.54
8:5U:55:GLY:HA3	8:5T:88:VAL:HG13	1.89	0.54
6:4B:116:ARG:HE	6:4B:123:ARG:HH21	1.56	0.54
10:8C:215:LEU:HD22	10:8C:761:ALA:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:8C:836:ASP:HA	10:8C:943:ARG:HB3	1.89	0.54
8:51:94:ILE:HG12	8:51:100:ILE:HG22	1.89	0.54
1:X4:308:ARG:NH1	1:X4:311:GLY:O	2.41	0.54
1:Y4:100:TYR:O	1:P4:164:ARG:NH1	2.41	0.54
1:Y4:256:ASP:HB2	1:Z4:287:LYS:HE2	1.90	0.54
1:R4:193:TRP:HE1	1:R4:197:ARG:HE	1.56	0.54
1:K4:133:SER:HB2	1:L4:104:PRO:HB3	1.88	0.54
1:H4:340:THR:OG1	1:I4:111:ARG:NH1	2.39	0.54
1:E4:277:MET:HG2	1:E4:330:ILE:HG12	1.89	0.54
2:A3:32:ARG:NH2	2:A3:67:ARG:O	2.41	0.54
1:ZO:130:GLU:OE1	1:ZO:344:ARG:NH2	2.41	0.54
1:NO:284:ALA:HA	1:NO:287:LYS:HD3	1.89	0.54
1:TO:215:GLY:HA2	1:TO:220:THR:HG22	1.90	0.54
1:VO:288:MET:HA	2:EN:6:LYS:HB3	1.88	0.54
1:LO:125:SER:OG	1:LO:336:GLY:O	2.25	0.54
1:IO:183:LEU:HD22	1:IO:360:VAL:HG21	1.89	0.54
1:WJ:252:VAL:HG11	2:BI:3:VAL:HG13	1.90	0.54
1:JJ:183:LEU:HD22	1:JJ:360:VAL:HG21	1.89	0.54
1:ZE:130:GLU:OE1	1:ZE:344:ARG:NH2	2.41	0.54
1:NE:334:ASP:OD2	1:NE:337:ASN:ND2	2.40	0.54
1:WE:112:GLY:HA2	1:VE:139:ASP:H	1.71	0.54
1:WE:252:VAL:HG11	2:BD:3:VAL:HG13	1.90	0.54
1:TE:172:LEU:HD11	1:SE:145:SER:HB3	1.89	0.54
1:KE:148:ALA:O	1:EE:181:ARG:NH2	2.41	0.54
1:IE:219:PRO:HG3	1:IE:369:GLY:HA2	1.89	0.54
1:FE:219:PRO:HG3	1:FE:369:GLY:HA2	1.89	0.54
1:N9:334:ASP:OD2	1:N9:337:ASN:ND2	2.40	0.54
1:R9:193:TRP:HE1	1:R9:197:ARG:HE	1.56	0.54
1:U9:167:ILE:HD12	1:U9:370:GLY:HA2	1.88	0.54
1:V9:183:LEU:HD22	1:V9:360:VAL:HG21	1.90	0.54
1:D9:219:PRO:HG3	1:D9:369:GLY:HA2	1.90	0.54
1:F9:265:LEU:HD23	1:F9:379:LYS:HG2	1.88	0.54
8:5S:116:HIS:HB2	8:5O:44:LEU:N	2.23	0.54
8:5R:55:GLY:HA2	8:5Q:106:MET:HE2	1.90	0.54
6:4E:104:LEU:HA	6:4E:133:VAL:HA	1.90	0.54
8:5Q:94:ILE:HG12	8:5Q:100:ILE:HG22	1.89	0.54
8:5V:44:LEU:HG	8:5O:7:LYS:HG2	1.90	0.54
8:5P:44:LEU:HD21	8:5U:7:LYS:C	2.30	0.54
8:5C:4:GLN:HG3	8:5C:96:PRO:HB2	1.89	0.54
8:5I:41:VAL:HA	8:5N:28:ARG:HH12	1.72	0.54
8:5I:44:LEU:CD1	8:5N:7:LYS:HA	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1D:142:ARG:NH2	5:1D:158:TYR:OH	2.40	0.54
8:5B:111:ASP:OD1	8:5B:111:ASP:N	2.38	0.54
10:8B:835:ALA:HB2	10:8B:936:LEU:HD11	1.90	0.54
10:8B:836:ASP:HA	10:8B:943:ARG:HB3	1.89	0.54
1:R4:167:ILE:HD12	1:R4:370:GLY:HA2	1.88	0.54
1:W4:252:VAL:HG11	2:B3:3:VAL:HG13	1.90	0.54
1:K4:148:ALA:O	1:E4:181:ARG:NH2	2.41	0.54
1:K4:288:MET:HE3	1:K4:297:TRP:HE1	1.72	0.54
1:I4:265:LEU:HD23	1:I4:379:LYS:HG2	1.89	0.54
2:E3:32:ARG:NH2	2:E3:67:ARG:O	2.41	0.54
1:WO:149:SER:HB2	1:WO:152:ALA:HB2	1.90	0.54
1:SO:367:ARG:HH22	1:KO:181:ARG:HG3	1.71	0.54
1:KO:148:ALA:O	1:EO:181:ARG:NH2	2.41	0.54
1:JO:183:LEU:HD22	1:JO:360:VAL:HG21	1.89	0.54
1:IO:252:VAL:HG11	2:DM:3:VAL:CG1	2.38	0.54
1:AK:191:GLU:OE2	5:1H:164:LYS:CD	2.53	0.54
1:NJ:284:ALA:HA	1:NJ:287:LYS:HD3	1.89	0.54
1:TJ:134:PHE:HB3	1:TJ:167:ILE:HB	1.89	0.54
1:VJ:288:MET:HA	2:EI:6:LYS:HB3	1.88	0.54
1:NE:182:LEU:C	1:NE:182:LEU:HD13	2.32	0.54
1:PE:344:ARG:HE	1:PE:367:ARG:HD3	1.73	0.54
1:TE:134:PHE:HB3	1:TE:167:ILE:HB	1.89	0.54
1:IE:265:LEU:HD23	1:IE:379:LYS:HG2	1.89	0.54
1:BE:215:GLY:HA2	1:BE:220:THR:HG22	1.90	0.54
1:V9:308:ARG:NH2	1:V9:311:GLY:O	2.38	0.54
1:I9:219:PRO:HG3	1:I9:369:GLY:HA2	1.89	0.54
1:I9:252:VAL:HG11	2:D7:3:VAL:CG1	2.37	0.54
1:B9:90:LEU:HD13	1:B9:90:LEU:C	2.32	0.54
2:D7:32:ARG:NH2	2:D7:67:ARG:O	2.41	0.54
5:1K:72:ALA:O	5:1K:103:ARG:NH2	2.41	0.54
8:5R:44:LEU:HD12	8:5V:115:SER:O	2.08	0.54
8:5E:28:ARG:O	8:5D:116:HIS:N	2.41	0.54
8:5W:44:LEU:HB2	8:50:116:HIS:CB	2.38	0.54
8:5W:51:ARG:NH1	8:5V:61:SER:CB	2.70	0.54
5:1G:331:LEU:HD12	5:1G:354:PRO:HB3	1.90	0.54
8:5V:111:ASP:OD1	8:5V:111:ASP:N	2.39	0.54
6:4C:40:LEU:CD2	7:3C:54:LEU:HD21	2.37	0.54
11:6E:34:GLU:OE2	11:6D:208:VAL:HG21	2.07	0.54
8:50:94:ILE:HG12	8:50:100:ILE:HG22	1.89	0.54
1:B5:359:HIS:HA	4:2A:121:ALA:CB	2.27	0.54
1:J4:181:ARG:HG3	1:RO:367:ARG:HH12	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V4:183:LEU:HD22	1:V4:360:VAL:HG21	1.90	0.54
1:FO:133:SER:HB2	1:GO:104:PRO:HB3	1.89	0.54
1:BO:215:GLY:HA2	1:BO:220:THR:HG22	1.90	0.54
1:BK:348:ARG:NH1	5:1J:164:LYS:CD	2.71	0.54
2:CH:32:ARG:NH2	2:CH:67:ARG:O	2.41	0.54
1:RE:193:TRP:HE1	1:RE:197:ARG:HE	1.56	0.54
1:G9:223:LEU:O	1:G9:227:LYS:NZ	2.33	0.54
2:E8:32:ARG:NH2	2:E8:67:ARG:O	2.41	0.54
4:2A:82:PRO:O	4:2A:139:GLY:N	2.41	0.54
6:4F:104:LEU:HA	6:4F:133:VAL:HA	1.90	0.54
5:1I:331:LEU:HD12	5:1I:354:PRO:HB3	1.90	0.54
5:1H:142:ARG:NH2	5:1H:158:TYR:OH	2.40	0.54
4:2H:32:LEU:HD23	4:2H:32:LEU:O	2.07	0.54
6:4D:53:ALA:HB3	6:4D:64:VAL:HB	1.89	0.54
5:1E:72:ALA:O	5:1E:103:ARG:NH2	2.41	0.54
6:4B:104:LEU:HA	6:4B:133:VAL:HA	1.90	0.54
8:5B:41:VAL:O	8:5B:41:VAL:HG12	2.08	0.54
10:8A:215:LEU:HD22	10:8A:761:ALA:O	2.08	0.54
11:6B:161:PHE:HD2	11:6B:168:GLY:HA3	1.73	0.54
11:6B:208:VAL:HG21	11:6C:34:GLU:CD	2.33	0.54
9:7C:97:THR:OG1	9:7C:99:TRP:NE1	2.41	0.54
1:T4:223:LEU:O	1:T4:227:LYS:NZ	2.31	0.53
1:F4:223:LEU:O	1:F4:227:LYS:NZ	2.33	0.53
1:XO:308:ARG:NH1	1:XO:311:GLY:O	2.41	0.53
1:TO:134:PHE:HB3	1:TO:167:ILE:HB	1.89	0.53
1:KO:308:ARG:NH2	1:KO:311:GLY:O	2.39	0.53
1:EJ:215:GLY:HA2	1:EJ:220:THR:HG22	1.90	0.53
1:IE:98:GLY:HA2	1:F9:162:ILE:HD12	1.89	0.53
1:IE:252:VAL:HG11	2:DC:3:VAL:CG1	2.37	0.53
1:Z9:130:GLU:OE1	1:Z9:344:ARG:NH2	2.41	0.53
1:F9:219:PRO:HG3	1:F9:369:GLY:HA2	1.89	0.53
1:B9:167:ILE:HD12	1:B9:370:GLY:HA2	1.91	0.53
6:4A:116:ARG:HE	6:4A:123:ARG:HH21	1.56	0.53
5:1L:125:VAL:HB	5:1L:134:GLU:HB2	1.89	0.53
5:1L:142:ARG:NH2	5:1L:158:TYR:OH	2.40	0.53
8:5F:44:LEU:HD21	8:5K:7:LYS:CA	2.36	0.53
8:5Q:53:LEU:HB2	8:5P:129:ALA:HA	1.89	0.53
5:1G:273:MET:HE2	5:1F:270:TRP:HD1	1.72	0.53
8:5D:41:VAL:HG13	8:5I:69:VAL:HG21	1.90	0.53
8:5P:111:ASP:OD1	8:5P:111:ASP:N	2.39	0.53
5:1E:331:LEU:HD12	5:1E:354:PRO:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1F:125:VAL:HB	5:1F:134:GLU:HB2	1.90	0.53
8:5C:35:ASN:O	8:5B:83:PHE:CZ	2.61	0.53
11:6B:182:ARG:NH1	11:6C:34:GLU:OE2	2.40	0.53
1:Z4:348:ARG:HH22	1:CP:180:GLN:HG2	1.72	0.53
1:R4:367:ARG:HH12	1:J9:181:ARG:HG3	1.73	0.53
1:H4:142:ASP:OD2	1:I4:204:ARG:NH2	2.41	0.53
1:G4:147:TRP:CZ2	1:B4:209:ALA:HB2	2.44	0.53
1:PO:344:ARG:HE	1:PO:367:ARG:HD3	1.73	0.53
1:IJ:125:SER:OG	1:IJ:336:GLY:O	2.26	0.53
1:DJ:183:LEU:HD13	1:DJ:360:VAL:HG21	1.91	0.53
1:OE:263:TYR:OH	1:PE:305:GLU:OE1	2.26	0.53
1:SE:167:ILE:HD12	1:SE:370:GLY:HA2	1.90	0.53
1:JE:219:PRO:HG3	1:JE:369:GLY:HA2	1.89	0.53
1:JE:256:ASP:CA	1:JE:259:VAL:HG12	2.37	0.53
1:HE:142:ASP:OD2	1:IE:204:ARG:NH2	2.41	0.53
1:EE:150:GLU:HG3	1:GE:91:ASN:CB	2.35	0.53
1:GE:147:TRP:CZ2	1:BE:209:ALA:HB2	2.44	0.53
1:Y9:211:ILE:HG21	1:Y9:320:MET:HG2	1.89	0.53
1:T9:149:SER:HB2	1:T9:152:ALA:HB2	1.89	0.53
1:T9:256:ASP:HA	1:T9:259:VAL:HG12	1.89	0.53
1:J9:265:LEU:HD23	1:J9:379:LYS:HG2	1.91	0.53
1:L9:133:SER:HB2	1:H9:104:PRO:HB3	1.90	0.53
1:L9:289:LYS:HD3	1:L9:293:GLY:HA2	1.90	0.53
1:I9:223:LEU:O	1:I9:227:LYS:NZ	2.31	0.53
1:E9:277:MET:HG2	1:E9:330:ILE:HG12	1.89	0.53
2:A6:32:ARG:NH2	2:A6:67:ARG:O	2.41	0.53
8:5X:44:LEU:HB2	8:51:116:HIS:CA	2.38	0.53
8:5X:55:GLY:HA2	8:5W:106:MET:HE2	1.90	0.53
4:2I:15:PRO:HB2	4:2I:18:GLU:HB3	1.89	0.53
6:4D:73:THR:HG22	6:4D:75:ALA:H	1.73	0.53
7:3D:66:ALA:HB3	7:3D:73:ARG:HG2	1.91	0.53
8:5D:50:TRP:HB2	8:5C:131:ALA:HA	1.88	0.53
9:7A:97:THR:OG1	9:7A:99:TRP:NE1	2.41	0.53
1:Z4:259:VAL:HG23	1:A5:286:ARG:HD2	1.90	0.53
1:Z4:355:SER:OG	1:CP:354:PHE:O	2.25	0.53
1:A5:347:LEU:HB3	5:1A:161:GLY:O	2.08	0.53
1:N4:354:PHE:HD1	1:E4:352:ASP:HB3	1.74	0.53
1:Q4:252:VAL:O	1:Q4:253:ASN:OD1	2.27	0.53
1:J4:265:LEU:HD23	1:J4:379:LYS:HG2	1.91	0.53
1:L4:182:LEU:O	1:L4:186:SER:CB	2.57	0.53
1:I4:183:LEU:HD22	1:I4:360:VAL:HG21	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:291:ALA:O	2:AL:10:SER:HB2	2.09	0.53
1:AP:351:ARG:HH21	5:1J:163:ARG:HH22	1.51	0.53
1:OO:133:SER:HB2	1:PO:104:PRO:HB3	1.90	0.53
1:WO:125:SER:OG	1:WO:336:GLY:O	2.26	0.53
1:JO:265:LEU:HD23	1:JO:379:LYS:HG2	1.91	0.53
1:LO:133:SER:HB2	1:HO:104:PRO:HB3	1.90	0.53
1:NJ:354:PHE:HD1	1:EJ:352:ASP:HB3	1.74	0.53
1:BJ:167:ILE:HD12	1:BJ:370:GLY:HA2	1.91	0.53
2:AG:32:ARG:NH2	2:AG:67:ARG:O	2.41	0.53
1:XE:308:ARG:NH1	1:XE:311:GLY:O	2.41	0.53
1:ZE:259:VAL:HG23	1:AF:286:ARG:HD2	1.90	0.53
1:AF:141:THR:CG2	1:AF:142:ASP:N	2.71	0.53
1:TE:149:SER:HB2	1:TE:152:ALA:HB2	1.89	0.53
1:N9:284:ALA:HA	1:N9:287:LYS:HD3	1.89	0.53
1:O9:125:SER:OG	1:O9:336:GLY:O	2.26	0.53
1:L9:182:LEU:O	1:L9:186:SER:CB	2.57	0.53
5:1A:29:ILE:HG22	5:1L:160:VAL:CG1	2.37	0.53
8:5F:44:LEU:HG	8:5K:10:LEU:HD21	1.90	0.53
4:2I:35:GLU:H	4:2I:35:GLU:CD	2.13	0.53
4:2I:93:ASP:HA	4:2I:130:GLY:HA3	1.91	0.53
5:1G:72:ALA:O	5:1G:103:ARG:NH2	2.41	0.53
5:1F:169:MET:HE1	5:1F:176:ILE:H	1.73	0.53
8:5C:41:VAL:O	8:5C:41:VAL:HG12	2.09	0.53
4:2C:93:ASP:HA	4:2C:130:GLY:HA3	1.91	0.53
5:1C:72:ALA:O	5:1C:103:ARG:NH2	2.41	0.53
9:7C:122:ARG:HA	9:7C:127:PHE:HA	1.91	0.53
1:Q4:352:ASP:OD2	1:U9:357:LYS:NZ	2.38	0.53
1:P4:149:SER:C	1:P4:151:THR:N	2.65	0.53
1:W4:116:SER:HA	1:V4:268:GLU:HB2	1.90	0.53
1:J4:181:ARG:HG3	1:RO:367:ARG:HH22	1.73	0.53
1:I4:219:PRO:HG3	1:I4:369:GLY:HA2	1.89	0.53
1:F4:219:PRO:HG3	1:F4:369:GLY:HA2	1.89	0.53
1:YO:219:PRO:HG3	1:YO:369:GLY:HA2	1.90	0.53
1:NO:182:LEU:HD13	1:NO:182:LEU:C	2.32	0.53
1:NO:354:PHE:HD1	1:EO:352:ASP:HB3	1.74	0.53
1:LO:289:LYS:HD3	1:LO:293:GLY:HA2	1.90	0.53
2:CM:32:ARG:NH2	2:CM:67:ARG:O	2.41	0.53
1:TJ:215:GLY:HA2	1:TJ:220:THR:HG22	1.90	0.53
1:LJ:133:SER:HB2	1:HJ:104:PRO:HB3	1.90	0.53
1:BF:175:MET:HE2	1:BF:361:LEU:HD21	1.89	0.53
1:JE:265:LEU:HD23	1:JE:379:LYS:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IE:125:SER:OG	1:IE:336:GLY:O	2.26	0.53
1:DE:219:PRO:HG3	1:DE:369:GLY:HA2	1.90	0.53
1:W9:125:SER:OG	1:W9:336:GLY:O	2.26	0.53
1:J9:219:PRO:HG3	1:J9:369:GLY:HA2	1.89	0.53
1:J9:344:ARG:HE	1:J9:367:ARG:HD3	1.72	0.53
1:A9:125:SER:OG	1:A9:336:GLY:O	2.27	0.53
1:G9:121:ARG:NH2	1:G9:343:GLU:OE1	2.40	0.53
1:B9:215:GLY:HA2	1:B9:220:THR:HG22	1.90	0.53
4:2A:190:VAL:HG13	5:1L:268:LEU:HD11	1.89	0.53
5:1B:142:ARG:NH2	5:1B:158:TYR:OH	2.40	0.53
6:4A:104:LEU:HA	6:4A:133:VAL:HA	1.90	0.53
7:3E:46:GLU:HG2	7:3D:90:LEU:HD22	1.89	0.53
7:3E:66:ALA:HB3	7:3E:73:ARG:HG2	1.91	0.53
8:5W:35:ASN:HA	8:5V:109:SER:HB3	1.90	0.53
8:5W:134:PHE:CD1	8:5V:80:ARG:HD3	2.44	0.53
8:5K:50:TRP:CE3	8:5J:60:ARG:HG3	2.43	0.53
4:2G:35:GLU:CD	4:2G:35:GLU:H	2.13	0.53
6:4B:73:THR:HG22	6:4B:75:ALA:H	1.73	0.53
10:8B:215:LEU:HD22	10:8B:761:ALA:O	2.08	0.53
11:6D:161:PHE:HD2	11:6D:168:GLY:HA3	1.73	0.53
1:E4:147:TRP:HZ2	1:F4:209:ALA:HB2	1.73	0.53
1:B4:129:VAL:HG11	1:B4:342:ALA:HB1	1.90	0.53
1:YO:256:ASP:HB2	1:ZO:287:LYS:HE2	1.90	0.53
1:BP:357:LYS:N	1:BP:358:PRO:CD	2.71	0.53
1:WO:104:PRO:HB3	1:VO:133:SER:HB2	1.91	0.53
1:ZJ:98:GLY:HA2	1:ZJ:101:LEU:HD23	1.91	0.53
1:AK:330:ILE:HB	1:AK:381:LEU:HD13	1.91	0.53
1:RJ:294:ARG:HH21	1:QJ:294:ARG:HD3	1.74	0.53
1:WJ:149:SER:HB2	1:WJ:152:ALA:HB2	1.90	0.53
1:LJ:289:LYS:HD3	1:LJ:293:GLY:HA2	1.90	0.53
1:GJ:121:ARG:NH2	1:GJ:343:GLU:OE1	2.40	0.53
2:DH:32:ARG:NH2	2:DH:67:ARG:O	2.41	0.53
1:QE:252:VAL:O	1:QE:253:ASN:OD1	2.27	0.53
1:WE:167:ILE:HD12	1:WE:370:GLY:HA2	1.91	0.53
1:SE:367:ARG:HH22	1:KE:181:ARG:HG3	1.72	0.53
1:LE:133:SER:HB2	1:HE:104:PRO:HB3	1.90	0.53
1:LE:183:LEU:HD22	1:LE:360:VAL:HG21	1.91	0.53
1:BE:167:ILE:HD12	1:BE:370:GLY:HA2	1.91	0.53
1:Q9:125:SER:OG	1:Q9:336:GLY:O	2.26	0.53
1:O9:263:TYR:OH	1:P9:305:GLU:OE1	2.26	0.53
1:W9:167:ILE:HD12	1:W9:370:GLY:HA2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I9:265:LEU:HD23	1:I9:379:LYS:HG2	1.89	0.53
2:A8:32:ARG:NH2	2:A8:67:ARG:O	2.41	0.53
4:2A:15:PRO:HB2	4:2A:18:GLU:HB3	1.89	0.53
8:5M:34:PHE:O	8:5R:109:SER:HB2	2.08	0.53
5:1L:169:MET:HE1	5:1L:176:ILE:H	1.73	0.53
8:5F:41:VAL:O	8:5F:41:VAL:HG12	2.08	0.53
8:5R:44:LEU:O	8:5W:7:LYS:CE	2.56	0.53
6:4E:77:GLY:HA3	7:3E:24:GLY:HA3	1.90	0.53
8:5W:44:LEU:HA	8:50:116:HIS:CA	2.38	0.53
7:3D:80:PHE:HB2	7:3D:87:PHE:HB2	1.91	0.53
8:5P:33:SER:HA	8:5O:111:ASP:HB3	1.91	0.53
6:4C:73:THR:HG22	6:4C:75:ALA:H	1.73	0.53
8:5C:41:VAL:HG13	8:5H:69:VAL:HG21	1.90	0.53
8:5O:44:LEU:O	8:5T:7:LYS:HE2	2.09	0.53
4:2C:82:PRO:O	4:2C:139:GLY:N	2.41	0.53
7:3B:80:PHE:HB2	7:3B:87:PHE:HB2	1.91	0.53
9:7A:145:ILE:HD12	10:8B:866:ARG:HG2	1.91	0.53
9:7C:147:HIS:NE2	9:7C:150:CYS:O	2.40	0.53
11:6C:77:ARG:HH22	11:6C:175:PHE:H	1.57	0.53
1:A5:330:ILE:HB	1:A5:381:LEU:HD13	1.91	0.53
1:U4:181:ARG:HH21	1:QO:171:GLU:HG2	1.71	0.53
1:T4:256:ASP:HA	1:T4:259:VAL:HG12	1.89	0.53
1:L4:133:SER:HB2	1:H4:104:PRO:HB3	1.90	0.53
1:A4:340:THR:OG1	1:A9:111:ARG:NH1	2.37	0.53
1:ZO:355:SER:OG	1:CK:354:PHE:O	2.26	0.53
1:AP:167:ILE:HG21	1:AP:342:ALA:HB3	1.91	0.53
1:XJ:308:ARG:NH1	1:XJ:311:GLY:O	2.41	0.53
1:YJ:219:PRO:HG3	1:YJ:369:GLY:HA2	1.90	0.53
1:SJ:167:ILE:HD12	1:SJ:370:GLY:HA2	1.90	0.53
1:JJ:254:ALA:O	1:JJ:255:SER:OG	2.21	0.53
1:DJ:102:VAL:O	1:DJ:102:VAL:HG22	2.09	0.53
1:NE:125:SER:OG	1:NE:336:GLY:O	2.25	0.53
1:TE:136:VAL:HG23	1:TE:165:ILE:HB	1.91	0.53
1:LE:289:LYS:HD3	1:LE:293:GLY:HA2	1.90	0.53
1:DE:354:PHE:HD1	1:G9:352:ASP:HB3	1.74	0.53
2:ED:32:ARG:NH2	2:ED:67:ARG:O	2.41	0.53
2:AB:32:ARG:NH2	2:AB:67:ARG:O	2.41	0.53
1:R9:167:ILE:HD12	1:R9:370:GLY:HA2	1.88	0.53
1:R9:263:TYR:OH	1:M9:305:GLU:OE1	2.27	0.53
1:Q9:252:VAL:O	1:Q9:253:ASN:OD1	2.27	0.53
1:S9:167:ILE:HD12	1:S9:370:GLY:HA2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D9:183:LEU:HD13	1:D9:360:VAL:HG21	1.91	0.53
5:1B:125:VAL:HB	5:1B:134:GLU:HB2	1.89	0.53
8:5S:7:LYS:CA	8:5N:44:LEU:HD11	2.35	0.53
5:1K:331:LEU:HD12	5:1K:354:PRO:HB3	1.90	0.53
6:4F:116:ARG:HE	6:4F:123:ARG:HH21	1.56	0.53
5:1I:72:ALA:O	5:1I:103:ARG:NH2	2.41	0.53
8:5W:44:LEU:HA	8:5O:116:HIS:C	2.33	0.53
4:2E:15:PRO:HB2	4:2E:18:GLU:HB3	1.89	0.53
8:5C:28:ARG:HA	8:5B:116:HIS:HB3	1.89	0.53
8:5O:111:ASP:N	8:5O:111:ASP:OD1	2.39	0.53
11:6B:208:VAL:HG21	11:6C:34:GLU:OE2	2.08	0.53
8:5Z:60:ARG:HG3	8:5O:50:TRP:CE3	2.44	0.53
1:Q4:171:GLU:HG2	1:U9:181:ARG:HH21	1.72	0.53
1:W4:125:SER:OG	1:W4:336:GLY:O	2.26	0.53
1:T4:136:VAL:HG23	1:T4:165:ILE:HB	1.91	0.53
1:F4:367:ARG:HH22	1:I9:181:ARG:HG3	1.74	0.53
1:B4:167:ILE:HD12	1:B4:370:GLY:HA2	1.91	0.53
1:RO:193:TRP:HE1	1:RO:197:ARG:HE	1.56	0.53
1:QO:252:VAL:O	1:QO:253:ASN:OD1	2.27	0.53
1:WO:116:SER:HA	1:VO:268:GLU:HB2	1.90	0.53
1:BO:167:ILE:HD12	1:BO:370:GLY:HA2	1.91	0.53
1:CO:167:ILE:HD12	1:CO:370:GLY:HA2	1.91	0.53
1:ZJ:130:GLU:OE1	1:ZJ:344:ARG:NH2	2.41	0.53
1:RJ:263:TYR:OH	1:MJ:305:GLU:OE1	2.27	0.53
1:LJ:183:LEU:HD22	1:LJ:360:VAL:HG21	1.91	0.53
1:NE:354:PHE:HD1	1:EE:352:ASP:HB3	1.74	0.53
1:RE:294:ARG:HH21	1:QE:294:ARG:HD3	1.74	0.53
1:TE:215:GLY:HA2	1:TE:220:THR:HG22	1.90	0.53
1:JE:181:ARG:HG3	1:R9:367:ARG:HH12	1.73	0.53
1:Z9:259:VAL:HG23	1:AA:286:ARG:HD2	1.90	0.53
1:BA:219:PRO:HG3	1:BA:369:GLY:HA2	1.91	0.53
1:O9:133:SER:HB2	1:P9:104:PRO:HB3	1.90	0.53
1:D9:102:VAL:O	1:D9:102:VAL:HG22	2.09	0.53
2:D8:32:ARG:NH2	2:D8:67:ARG:O	2.41	0.53
5:1B:169:MET:HE1	5:1B:176:ILE:H	1.73	0.53
6:4A:77:GLY:HA3	7:3A:24:GLY:HA3	1.90	0.53
8:5R:4:GLN:HG3	8:5Q:70:PHE:CD2	2.44	0.53
8:5W:35:ASN:HA	8:5V:109:SER:CB	2.39	0.53
8:5V:32:ILE:HG23	8:5U:112:TYR:H	1.72	0.53
4:2E:93:ASP:HA	4:2E:130:GLY:HA3	1.91	0.53
6:4C:104:LEU:C	6:4C:104:LEU:HD12	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4C:116:ARG:HE	6:4C:123:ARG:HH21	1.56	0.53
8:5I:111:ASP:N	8:5I:111:ASP:OD1	2.39	0.53
10:8C:835:ALA:HB2	10:8C:936:LEU:HD11	1.90	0.53
10:8C:904:ARG:HH22	9:7B:148:PRO:HB2	1.74	0.53
11:6E:34:GLU:CD	11:6D:208:VAL:HG21	2.32	0.53
1:W4:104:PRO:HB3	1:V4:133:SER:HB2	1.91	0.53
1:W4:265:LEU:HD23	1:W4:379:LYS:HG2	1.89	0.53
1:T4:215:GLY:HA2	1:T4:220:THR:HG22	1.90	0.53
1:S4:167:ILE:HD12	1:S4:370:GLY:HA2	1.90	0.53
1:EO:215:GLY:HA2	1:EO:220:THR:HG22	1.90	0.53
1:QJ:185:ASP:N	1:QJ:185:ASP:OD1	2.42	0.53
1:QJ:252:VAL:O	1:QJ:253:ASN:OD1	2.27	0.53
1:UJ:106:THR:HA	1:TJ:135:ASP:HB2	1.91	0.53
1:VJ:125:SER:OG	1:VJ:336:GLY:O	2.25	0.53
1:BJ:129:VAL:HG11	1:BJ:342:ALA:HB1	1.90	0.53
1:CJ:257:ALA:HB1	1:CJ:381:LEU:HD11	1.91	0.53
2:EI:32:ARG:NH2	2:EI:67:ARG:O	2.41	0.53
1:XE:91:ASN:HD22	1:BF:151:THR:HB	1.74	0.53
1:BE:129:VAL:HG11	1:BE:342:ALA:HB1	1.90	0.53
2:CC:32:ARG:NH2	2:CC:67:ARG:O	2.41	0.53
1:AA:130:GLU:OE1	5:1D:44:ARG:CD	2.43	0.53
1:W9:252:VAL:HG11	2:B8:3:VAL:HG13	1.90	0.53
1:T9:136:VAL:HG23	1:T9:165:ILE:HB	1.91	0.53
1:V9:167:ILE:HD12	1:V9:370:GLY:HA2	1.90	0.53
8:5M:44:LEU:HB2	8:5W:116:HIS:HA	1.90	0.53
4:2K:93:ASP:HA	4:2K:130:GLY:HA3	1.91	0.53
5:1J:169:MET:HE1	5:1J:176:ILE:H	1.73	0.53
8:5E:41:VAL:O	8:5E:41:VAL:HG12	2.09	0.53
8:5W:42:THR:CG2	8:50:116:HIS:CE1	2.78	0.53
4:2G:93:ASP:HA	4:2G:130:GLY:HA3	1.91	0.53
8:5D:41:VAL:O	8:5D:41:VAL:HG12	2.09	0.53
7:3C:66:ALA:HB3	7:3C:73:ARG:HG2	1.91	0.53
5:1C:331:LEU:HD12	5:1C:354:PRO:HB3	1.90	0.53
9:7A:17:THR:OG1	9:7A:103:TRP:NE1	2.42	0.53
10:8A:924:THR:HG22	10:8A:969:VAL:HG23	1.91	0.53
11:6A:77:ARG:HH22	11:6A:175:PHE:H	1.57	0.53
1:P4:344:ARG:HE	1:P4:367:ARG:HD3	1.73	0.53
1:A4:125:SER:OG	1:A4:336:GLY:O	2.27	0.53
1:D4:102:VAL:O	1:D4:102:VAL:HG22	2.09	0.53
1:D4:183:LEU:HD13	1:D4:360:VAL:HG21	1.91	0.53
1:AP:330:ILE:HB	1:AP:381:LEU:HD13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OO:263:TYR:OH	1:PO:305:GLU:OE1	2.26	0.53
1:VO:167:ILE:HD12	1:VO:370:GLY:HA2	1.90	0.53
1:IO:181:ARG:HG3	1:FJ:367:ARG:HH22	1.74	0.53
1:DO:102:VAL:O	1:DO:102:VAL:HG22	2.09	0.53
1:AK:167:ILE:HG21	1:AK:342:ALA:HB3	1.91	0.53
1:PJ:344:ARG:HE	1:PJ:367:ARG:HD3	1.73	0.53
1:JJ:104:PRO:HB3	1:IJ:133:SER:HB2	1.90	0.53
1:JJ:125:SER:OG	1:JJ:336:GLY:O	2.26	0.53
1:LJ:182:LEU:O	1:LJ:186:SER:CB	2.57	0.53
1:AJ:89:ALA:HB2	1:CE:193:TRP:HZ3	1.74	0.53
1:ZE:98:GLY:HA2	1:ZE:101:LEU:HD23	1.91	0.53
1:ZE:355:SER:OG	1:CA:354:PHE:O	2.27	0.53
1:KE:305:GLU:CB	1:KE:306:PRO:HD3	2.28	0.53
1:VE:183:LEU:HD22	1:VE:360:VAL:HG21	1.90	0.53
1:L9:125:SER:OG	1:L9:336:GLY:O	2.25	0.53
1:B9:129:VAL:HG11	1:B9:342:ALA:HB1	1.90	0.53
4:2A:93:ASP:HA	4:2A:130:GLY:HA3	1.91	0.53
8:5A:41:VAL:HG22	8:5L:119:GLU:HG2	1.91	0.53
5:1K:24:SER:OG	5:1J:125:VAL:HG21	2.09	0.53
4:2L:71:ARG:O	4:2L:72:TRP:CD1	2.54	0.53
8:5X:51:ARG:HH12	8:5W:61:SER:HG	1.55	0.53
6:4E:116:ARG:HE	6:4E:123:ARG:HH21	1.56	0.53
6:4D:77:GLY:HA3	7:3D:24:GLY:HA3	1.90	0.53
4:2F:32:LEU:O	4:2F:32:LEU:HD23	2.07	0.53
7:3B:53:THR:O	7:3B:53:THR:CG2	2.53	0.53
9:7A:122:ARG:HA	9:7A:127:PHE:HA	1.91	0.53
10:8A:866:ARG:NH2	9:7C:143:GLY:O	2.38	0.53
1:A5:141:THR:CG2	1:A5:142:ASP:N	2.71	0.53
2:B3:32:ARG:NH2	2:B3:67:ARG:O	2.41	0.53
1:YO:100:TYR:O	1:PO:164:ARG:NH1	2.41	0.53
1:TO:136:VAL:HG23	1:TO:165:ILE:HB	1.91	0.53
1:SO:167:ILE:HD12	1:SO:370:GLY:HA2	1.90	0.53
1:DO:183:LEU:HD13	1:DO:360:VAL:HG21	1.91	0.53
1:EO:277:MET:HG2	1:EO:330:ILE:HG12	1.89	0.53
1:OJ:263:TYR:OH	1:PJ:305:GLU:OE1	2.26	0.53
1:JJ:259:VAL:HG23	1:JJ:310:MET:HE1	1.92	0.53
1:JJ:265:LEU:HD23	1:JJ:379:LYS:HG2	1.91	0.53
1:VJ:183:LEU:HD22	1:VJ:360:VAL:HG21	1.90	0.53
1:HJ:142:ASP:OD2	1:IJ:204:ARG:NH2	2.41	0.53
1:EJ:147:TRP:HZ2	1:FJ:209:ALA:HB2	1.73	0.53
2:AH:32:ARG:NH2	2:AH:67:ARG:O	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:254:ALA:O	1:KE:255:SER:HB3	2.08	0.53
1:VE:167:ILE:HD12	1:VE:370:GLY:HA2	1.90	0.53
1:LE:125:SER:OG	1:LE:336:GLY:O	2.25	0.53
1:AE:125:SER:OG	1:AE:336:GLY:O	2.27	0.53
1:EE:215:GLY:HA2	1:EE:220:THR:HG22	1.90	0.53
1:CA:263:TYR:OH	1:X9:305:GLU:OE1	2.25	0.53
1:W9:149:SER:HB2	1:W9:152:ALA:HB2	1.90	0.53
1:J9:259:VAL:HG23	1:J9:310:MET:HE1	1.91	0.53
1:L9:183:LEU:HD22	1:L9:360:VAL:HG21	1.91	0.53
1:H9:142:ASP:OD2	1:I9:204:ARG:NH2	2.41	0.53
8:5M:4:GLN:HG3	8:5R:70:PHE:CE2	2.44	0.53
7:3F:66:ALA:HB3	7:3F:73:ARG:HG2	1.91	0.53
9:7A:77:SER:H	9:7A:80:ALA:HB3	1.74	0.53
10:8A:835:ALA:HB2	10:8A:936:LEU:HD11	1.90	0.53
9:7C:77:SER:H	9:7C:80:ALA:HB3	1.74	0.53
10:8C:118:ALA:HA	10:8C:180:VAL:HA	1.91	0.53
11:6F:206:VAL:O	11:6F:207:GLU:HG3	2.09	0.53
9:7B:97:THR:OG1	9:7B:99:TRP:NE1	2.41	0.53
1:R4:263:TYR:OH	1:M4:305:GLU:OE1	2.27	0.52
1:O4:263:TYR:OH	1:P4:305:GLU:OE1	2.26	0.52
1:I4:181:ARG:HH21	1:FO:171:GLU:HG2	1.73	0.52
1:B4:215:GLY:HA2	1:B4:220:THR:HG22	1.90	0.52
1:ZO:98:GLY:HA2	1:ZO:101:LEU:HD23	1.91	0.52
1:AP:141:THR:CG2	1:AP:142:ASP:N	2.71	0.52
1:RO:263:TYR:OH	1:MO:305:GLU:OE1	2.27	0.52
1:WO:252:VAL:HG11	2:BN:3:VAL:HG13	1.90	0.52
1:VO:183:LEU:HD22	1:VO:360:VAL:HG21	1.90	0.52
1:LO:182:LEU:O	1:LO:186:SER:CB	2.57	0.52
1:HO:142:ASP:OD2	1:IO:204:ARG:NH2	2.41	0.52
1:YJ:100:TYR:O	1:PJ:164:ARG:NH1	2.41	0.52
1:YJ:129:VAL:HG11	1:YJ:342:ALA:HB1	1.91	0.52
1:RJ:193:TRP:HE1	1:RJ:197:ARG:HE	1.56	0.52
1:FJ:262:VAL:HG21	1:FJ:310:MET:HG2	1.91	0.52
1:CJ:167:ILE:HD12	1:CJ:370:GLY:HA2	1.91	0.52
1:PE:181:ARG:HH21	1:WE:171:GLU:HG2	1.74	0.52
1:WE:149:SER:HB2	1:WE:152:ALA:HB2	1.90	0.52
1:JE:104:PRO:HB3	1:IE:133:SER:HB2	1.90	0.52
1:LE:254:ALA:O	1:LE:255:SER:OG	2.21	0.52
2:AC:32:ARG:NH2	2:AC:67:ARG:O	2.41	0.52
1:X9:91:ASN:HD22	1:BA:151:THR:HB	1.74	0.52
1:Z9:98:GLY:HA2	1:Z9:101:LEU:HD23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J9:104:PRO:HB3	1:I9:133:SER:HB2	1.90	0.52
1:I9:291:ALA:O	2:B7:10:SER:HB2	2.10	0.52
1:E9:147:TRP:HZ2	1:F9:209:ALA:HB2	1.73	0.52
1:G9:147:TRP:CZ2	1:B9:209:ALA:HB2	2.44	0.52
6:4F:77:GLY:HA3	7:3F:24:GLY:HA3	1.90	0.52
8:5X:9:LEU:HD21	8:5W:113:ALA:O	2.09	0.52
5:1E:273:MET:HE2	5:1D:270:TRP:HD1	1.74	0.52
5:1D:169:MET:HE1	5:1D:176:ILE:H	1.73	0.52
6:4B:104:LEU:C	6:4B:104:LEU:HD12	2.34	0.52
10:8C:951:ARG:HG3	9:7B:87:LEU:HD21	1.91	0.52
9:7B:17:THR:OG1	9:7B:103:TRP:NE1	2.42	0.52
1:A5:167:ILE:HG21	1:A5:342:ALA:HB3	1.91	0.52
1:J4:104:PRO:HB3	1:I4:133:SER:HB2	1.90	0.52
1:H4:125:SER:OG	1:H4:336:GLY:O	2.28	0.52
1:F4:262:VAL:HG21	1:F4:310:MET:HG2	1.91	0.52
2:B2:32:ARG:NH2	2:B2:67:ARG:O	2.41	0.52
1:MO:334:ASP:OD2	1:MO:337:ASN:ND2	2.43	0.52
1:KO:254:ALA:O	1:KO:255:SER:HB3	2.08	0.52
2:BM:32:ARG:NH2	2:BM:67:ARG:O	2.41	0.52
1:PJ:149:SER:C	1:PJ:151:THR:N	2.65	0.52
1:TJ:223:LEU:O	1:TJ:227:LYS:NZ	2.31	0.52
1:KJ:254:ALA:O	1:KJ:255:SER:HB3	2.08	0.52
1:JJ:181:ARG:HG3	1:RE:367:ARG:HH22	1.73	0.52
1:AJ:149:SER:HB2	1:AJ:152:ALA:HB2	1.92	0.52
1:EJ:150:GLU:HG3	1:GJ:91:ASN:CB	2.35	0.52
1:OE:125:SER:OG	1:OE:336:GLY:O	2.26	0.52
1:JE:181:ARG:HG3	1:R9:367:ARG:HH22	1.74	0.52
1:LE:182:LEU:O	1:LE:186:SER:CB	2.57	0.52
1:DE:183:LEU:HD13	1:DE:360:VAL:HG21	1.91	0.52
1:Y9:219:PRO:HG3	1:Y9:369:GLY:HA2	1.90	0.52
1:AA:330:ILE:HB	1:AA:381:LEU:HD13	1.91	0.52
1:K9:254:ALA:O	1:K9:255:SER:HB3	2.08	0.52
2:E7:32:ARG:NH2	2:E7:67:ARG:O	2.41	0.52
8:5A:41:VAL:O	8:5A:41:VAL:HG12	2.09	0.52
6:4E:11:ALA:HA	7:3D:22:ALA:HA	1.91	0.52
8:5C:50:TRP:NE1	8:5B:132:LEU:H	2.07	0.52
9:7C:17:THR:OG1	9:7C:103:TRP:NE1	2.42	0.52
1:C5:354:PHE:O	1:Z9:355:SER:OG	2.27	0.52
1:X4:91:ASN:HD22	1:B5:151:THR:HB	1.74	0.52
1:Y4:219:PRO:HG3	1:Y4:369:GLY:HA2	1.90	0.52
1:W4:149:SER:HB2	1:W4:152:ALA:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V4:167:ILE:HD12	1:V4:370:GLY:HA2	1.90	0.52
1:E4:215:GLY:HA2	1:E4:220:THR:HG22	1.90	0.52
1:YO:129:VAL:HG11	1:YO:342:ALA:HB1	1.92	0.52
1:HO:125:SER:OG	1:HO:336:GLY:O	2.28	0.52
1:GO:139:ASP:OD1	1:GO:139:ASP:N	2.43	0.52
1:BO:129:VAL:HG11	1:BO:342:ALA:HB1	1.90	0.52
2:DM:32:ARG:NH2	2:DM:67:ARG:O	2.41	0.52
1:WJ:167:ILE:HD12	1:WJ:370:GLY:HA2	1.91	0.52
1:TJ:136:VAL:HG23	1:TJ:165:ILE:HB	1.91	0.52
1:AJ:291:ALA:O	2:AB:10:SER:HB2	2.09	0.52
1:BJ:215:GLY:HA2	1:BJ:220:THR:HG22	1.90	0.52
1:CJ:139:ASP:HA	1:CJ:162:ILE:HA	1.92	0.52
2:BH:32:ARG:NH2	2:BH:67:ARG:O	2.41	0.52
1:QE:185:ASP:OD1	1:QE:185:ASP:N	2.42	0.52
1:AE:149:SER:HB2	1:AE:152:ALA:HB2	1.92	0.52
1:N9:354:PHE:HD1	1:E9:352:ASP:HB3	1.74	0.52
1:M9:334:ASP:OD2	1:M9:337:ASN:ND2	2.43	0.52
1:W9:243:THR:O	1:W9:250:ALA:HB2	2.10	0.52
1:E9:215:GLY:HA2	1:E9:220:THR:HG22	1.90	0.52
6:4A:104:LEU:C	6:4A:104:LEU:HD12	2.34	0.52
8:5M:71:LYS:HG2	8:5N:3:ALA:HA	1.92	0.52
8:5E:13:LEU:HD13	8:5E:24:ILE:HG23	1.91	0.52
8:5W:49:GLY:O	8:5V:60:ARG:HG2	2.10	0.52
6:4D:104:LEU:C	6:4D:104:LEU:HD12	2.34	0.52
6:4D:116:ARG:HE	6:4D:123:ARG:HH21	1.56	0.52
11:6B:206:VAL:O	11:6B:207:GLU:HG3	2.09	0.52
11:6A:18:GLY:HA3	11:6A:47:TYR:HA	1.92	0.52
9:7B:122:ARG:HA	9:7B:127:PHE:HA	1.91	0.52
9:7B:134:LEU:HD21	10:8B:824:LEU:HB2	1.91	0.52
10:8B:220:ARG:O	10:8B:220:ARG:HG3	2.10	0.52
1:Y4:129:VAL:HG11	1:Y4:342:ALA:HB1	1.92	0.52
1:P4:95:ALA:HA	1:P4:99:GLY:HA3	1.92	0.52
1:W4:167:ILE:HD12	1:W4:370:GLY:HA2	1.91	0.52
1:G4:259:VAL:HG22	1:G4:310:MET:CE	2.40	0.52
2:D3:32:ARG:NH2	2:D3:67:ARG:O	2.41	0.52
1:ZO:259:VAL:HG23	1:AP:286:ARG:HD2	1.90	0.52
1:UO:171:GLU:HG2	1:XJ:181:ARG:HH21	1.74	0.52
1:JO:125:SER:OG	1:JO:336:GLY:O	2.26	0.52
1:VO:125:SER:OG	1:VO:336:GLY:O	2.25	0.52
1:IO:291:ALA:O	2:BM:10:SER:HB2	2.10	0.52
1:ZJ:355:SER:OG	1:CF:354:PHE:O	2.26	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WJ:104:PRO:HB3	1:VJ:133:SER:HB2	1.91	0.52
1:JJ:181:ARG:HG3	1:RE:367:ARG:HH12	1.73	0.52
1:GJ:259:VAL:HG22	1:GJ:310:MET:CE	2.40	0.52
1:AF:289:LYS:HB2	1:AF:289:LYS:HZ2	1.72	0.52
1:AF:330:ILE:HB	1:AF:381:LEU:HD13	1.91	0.52
1:BF:121:ARG:NH1	1:BF:343:GLU:OE2	2.43	0.52
1:BF:219:PRO:HG3	1:BF:369:GLY:HA2	1.91	0.52
1:RE:263:TYR:OH	1:ME:305:GLU:OE1	2.27	0.52
1:HE:125:SER:OG	1:HE:336:GLY:O	2.28	0.52
1:GE:259:VAL:HG22	1:GE:310:MET:CE	2.40	0.52
1:CE:139:ASP:HA	1:CE:162:ILE:HA	1.92	0.52
1:CE:257:ALA:HB1	1:CE:381:LEU:HD11	1.91	0.52
2:DD:32:ARG:NH2	2:DD:67:ARG:O	2.41	0.52
1:BA:121:ARG:NH1	1:BA:343:GLU:OE2	2.43	0.52
1:W9:116:SER:HA	1:V9:268:GLU:HB2	1.90	0.52
1:F9:262:VAL:HG21	1:F9:310:MET:HG2	1.91	0.52
1:C9:139:ASP:HA	1:C9:162:ILE:HA	1.92	0.52
5:1A:331:LEU:HD12	5:1A:354:PRO:HB3	1.90	0.52
8:5S:98:PHE:HZ	8:5X:76:ASP:C	2.18	0.52
8:5M:116:HIS:CE1	8:5I:42:THR:CG2	2.93	0.52
8:5D:35:ASN:O	8:5C:83:PHE:CZ	2.60	0.52
8:5P:41:VAL:HA	8:5U:28:ARG:NH1	2.22	0.52
7:3C:80:PHE:HB2	7:3C:87:PHE:HB2	1.91	0.52
5:1D:125:VAL:HB	5:1D:134:GLU:HB2	1.90	0.52
7:3B:66:ALA:HB3	7:3B:73:ARG:HG2	1.91	0.52
11:6E:18:GLY:HA3	11:6E:47:TYR:HA	1.92	0.52
1:L4:289:LYS:HD3	1:L4:293:GLY:HA2	1.90	0.52
1:A4:334:ASP:OD2	1:A4:337:ASN:ND2	2.40	0.52
1:C4:167:ILE:HD12	1:C4:370:GLY:HA2	1.91	0.52
1:PO:95:ALA:HA	1:PO:99:GLY:HA3	1.92	0.52
1:WO:243:THR:O	1:WO:250:ALA:HB2	2.10	0.52
1:JO:104:PRO:HB3	1:IO:133:SER:HB2	1.90	0.52
1:JO:182:LEU:O	1:JO:186:SER:OG	2.28	0.52
1:AO:149:SER:HB2	1:AO:152:ALA:HB2	1.92	0.52
1:AO:291:ALA:O	2:AG:10:SER:HB2	2.09	0.52
1:AK:289:LYS:NZ	1:AK:289:LYS:CB	2.73	0.52
1:OJ:125:SER:OG	1:OJ:336:GLY:O	2.26	0.52
1:WJ:116:SER:HA	1:VJ:268:GLU:HB2	1.90	0.52
1:WE:104:PRO:HB3	1:VE:133:SER:HB2	1.91	0.52
1:JE:259:VAL:HG23	1:JE:310:MET:HE1	1.92	0.52
1:BA:357:LYS:N	1:BA:358:PRO:CD	2.71	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O9:150:GLU:HG3	1:O9:151:THR:HG23	1.91	0.52
1:P9:344:ARG:HE	1:P9:367:ARG:HD3	1.73	0.52
1:E9:150:GLU:HG3	1:G9:91:ASN:CB	2.35	0.52
7:3A:66:ALA:HB3	7:3A:73:ARG:HG2	1.91	0.52
8:5A:13:LEU:HD13	8:5A:24:ILE:HG23	1.91	0.52
8:5A:71:LYS:NZ	6:4B:57:ASP:OD2	2.32	0.52
8:5R:3:ALA:CA	8:5Q:71:LYS:HG2	2.39	0.52
5:1G:343:SER:HB2	5:1G:349:GLN:HA	1.92	0.52
5:1H:169:MET:HE1	5:1H:176:ILE:H	1.73	0.52
8:5B:13:LEU:HD13	8:5B:24:ILE:HG23	1.91	0.52
8:5T:54:LEU:HD12	8:5Z:3:ALA:CB	2.21	0.52
10:8A:833:VAL:HG11	10:8A:943:ARG:HB2	1.92	0.52
11:6E:77:ARG:HH22	11:6E:175:PHE:H	1.57	0.52
10:8B:118:ALA:HA	10:8B:180:VAL:HA	1.91	0.52
1:Z4:98:GLY:HA2	1:Z4:101:LEU:HD23	1.91	0.52
1:O4:133:SER:HB2	1:P4:104:PRO:HB3	1.90	0.52
1:O4:193:TRP:HE1	1:O4:197:ARG:HE	1.58	0.52
1:C4:139:ASP:HA	1:C4:162:ILE:HA	1.92	0.52
1:XO:91:ASN:HD22	1:BP:151:THR:HB	1.74	0.52
1:AO:125:SER:OG	1:AO:336:GLY:O	2.27	0.52
1:CO:139:ASP:HA	1:CO:162:ILE:HA	1.92	0.52
1:OE:133:SER:HB2	1:PE:104:PRO:HB3	1.90	0.52
1:DE:102:VAL:O	1:DE:102:VAL:HG22	2.09	0.52
1:P9:95:ALA:HA	1:P9:99:GLY:HA3	1.92	0.52
1:K9:125:SER:OG	1:K9:336:GLY:O	2.28	0.52
1:J9:125:SER:OG	1:J9:336:GLY:O	2.26	0.52
1:A9:215:GLY:HA2	1:A9:220:THR:HG22	1.92	0.52
1:C9:257:ALA:HB1	1:C9:381:LEU:HD11	1.91	0.52
5:1A:283:HIS:N	5:1L:279:ASP:OD1	2.37	0.52
6:4A:40:LEU:CD2	7:3A:54:LEU:HD21	2.37	0.52
8:5S:84:PHE:HE2	8:5T:134:PHE:HB2	1.74	0.52
5:1I:29:ILE:HG22	5:1H:160:VAL:CG1	2.39	0.52
8:5W:9:LEU:HD21	8:5V:113:ALA:C	2.35	0.52
8:5W:97:ASP:HB3	8:5V:72:ASP:CB	2.25	0.52
8:5V:54:LEU:HG	8:5I:3:ALA:CB	2.36	0.52
9:7A:87:LEU:HD21	10:8B:951:ARG:HG3	1.91	0.52
1:B5:219:PRO:HG3	1:B5:369:GLY:HA2	1.91	0.52
1:R4:294:ARG:HH21	1:Q4:294:ARG:HD3	1.74	0.52
1:K4:171:GLU:HA	1:K4:367:ARG:HA	1.92	0.52
1:J4:259:VAL:HG23	1:J4:310:MET:HE1	1.92	0.52
1:YO:298:ALA:HB2	1:YO:306:PRO:HD3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RO:294:ARG:HH21	1:QO:294:ARG:HD3	1.74	0.52
1:OO:125:SER:OG	1:OO:336:GLY:O	2.26	0.52
1:OO:193:TRP:HE1	1:OO:197:ARG:HE	1.58	0.52
1:WO:167:ILE:HD12	1:WO:370:GLY:HA2	1.91	0.52
1:AO:334:ASP:OD2	1:AO:337:ASN:ND2	2.40	0.52
1:ZJ:259:VAL:HG23	1:AK:286:ARG:HD2	1.90	0.52
1:OJ:133:SER:HB2	1:PJ:104:PRO:HB3	1.90	0.52
1:OJ:150:GLU:HG3	1:OJ:151:THR:HG23	1.91	0.52
1:PJ:181:ARG:HH21	1:WJ:171:GLU:HG2	1.75	0.52
1:ZE:348:ARG:HH22	1:CA:180:GLN:HG2	1.74	0.52
1:BF:192:THR:HG23	5:1G:161:GLY:N	2.25	0.52
1:OE:150:GLU:HG3	1:OE:151:THR:HG23	1.91	0.52
1:JE:125:SER:OG	1:JE:336:GLY:O	2.27	0.52
1:VE:125:SER:OG	1:VE:336:GLY:O	2.25	0.52
1:IE:291:ALA:O	2:BC:10:SER:HB2	2.10	0.52
1:Y9:139:ASP:H	1:Z9:112:GLY:HA2	1.75	0.52
1:R9:294:ARG:HH21	1:Q9:294:ARG:HD3	1.74	0.52
1:P9:167:ILE:HD12	1:P9:370:GLY:HA2	1.92	0.52
1:P9:181:ARG:HH21	1:W9:171:GLU:HG2	1.74	0.52
1:H9:125:SER:OG	1:H9:336:GLY:O	2.28	0.52
2:A6:19:TYR:OH	2:A6:31:ARG:O	2.23	0.52
8:5W:32:ILE:O	8:5V:111:ASP:CA	2.58	0.52
10:8A:215:LEU:HD13	10:8A:761:ALA:HA	1.92	0.52
11:6B:77:ARG:HH22	11:6B:175:PHE:H	1.58	0.52
10:8C:220:ARG:HG3	10:8C:220:ARG:O	2.10	0.52
8:52:111:ASP:OD1	8:52:111:ASP:N	2.39	0.52
10:8B:844:LEU:HB2	11:6C:30:SER:HB3	1.92	0.52
10:8B:924:THR:HG22	10:8B:969:VAL:HG23	1.91	0.52
11:6C:18:GLY:HA3	11:6C:47:TYR:HA	1.92	0.52
1:W4:243:THR:O	1:W4:250:ALA:HB2	2.10	0.52
1:J4:125:SER:OG	1:J4:336:GLY:O	2.26	0.52
1:L4:182:LEU:O	1:L4:186:SER:HB3	2.10	0.52
1:A4:215:GLY:HA2	1:A4:220:THR:HG22	1.92	0.52
1:C4:257:ALA:HB1	1:C4:381:LEU:HD11	1.91	0.52
2:A1:10:SER:HB2	1:A9:291:ALA:O	2.10	0.52
1:AP:351:ARG:HH22	5:1J:163:ARG:HH22	1.50	0.52
1:UO:106:THR:HA	1:TO:135:ASP:HB2	1.91	0.52
1:KO:171:GLU:HA	1:KO:367:ARG:HA	1.92	0.52
1:JO:259:VAL:HG23	1:JO:310:MET:HE1	1.92	0.52
1:DO:354:PHE:HD1	1:GJ:352:ASP:HB3	1.75	0.52
1:FO:262:VAL:HG21	1:FO:310:MET:HG2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AN:32:ARG:NH2	2:AN:67:ARG:O	2.41	0.52
1:XJ:91:ASN:HD22	1:BK:151:THR:HB	1.74	0.52
1:AK:141:THR:CG2	1:AK:142:ASP:N	2.71	0.52
1:BK:143:MET:O	1:BK:158:ALA:HB3	2.10	0.52
1:VJ:167:ILE:HD12	1:VJ:370:GLY:HA2	1.90	0.52
1:IJ:223:LEU:O	1:IJ:227:LYS:NZ	2.31	0.52
1:IJ:291:ALA:O	2:BH:10:SER:HB2	2.10	0.52
1:WE:116:SER:HA	1:VE:268:GLU:HB2	1.90	0.52
1:LE:182:LEU:O	1:LE:186:SER:HB3	2.10	0.52
1:AE:89:ALA:HB2	1:C9:193:TRP:HZ3	1.75	0.52
1:CE:159:THR:HG21	1:B9:90:LEU:H	1.75	0.52
1:AA:141:THR:CG2	1:AA:142:ASP:N	2.71	0.52
1:AA:167:ILE:HG21	1:AA:342:ALA:HB3	1.91	0.52
1:A9:334:ASP:OD2	1:A9:337:ASN:ND2	2.40	0.52
8:5S:33:SER:CA	8:5X:111:ASP:HB3	2.34	0.52
8:5M:3:ALA:N	8:5R:71:LYS:HG2	2.24	0.52
8:5F:44:LEU:HD13	8:5F:44:LEU:O	2.10	0.52
4:2I:64:ARG:HD3	4:2I:133:GLU:OE2	2.10	0.52
7:3E:80:PHE:HB2	7:3E:87:PHE:HB2	1.91	0.52
6:4D:40:LEU:CD2	7:3D:54:LEU:HD21	2.37	0.52
4:2E:64:ARG:HD3	4:2E:133:GLU:OE2	2.10	0.52
8:5C:44:LEU:HD13	8:5C:44:LEU:O	2.10	0.52
10:8C:924:THR:HG22	10:8C:969:VAL:HG23	1.91	0.52
11:6F:77:ARG:HH22	11:6F:175:PHE:H	1.58	0.52
9:7B:138:LEU:HB3	10:8B:803:ARG:HB3	1.92	0.52
1:Y4:139:ASP:H	1:Z4:112:GLY:HA2	1.75	0.52
1:R4:367:ARG:HH22	1:J9:181:ARG:HG3	1.74	0.52
1:M4:334:ASP:OD2	1:M4:337:ASN:ND2	2.43	0.52
1:O4:167:ILE:HD12	1:O4:370:GLY:HA2	1.92	0.52
1:F4:167:ILE:HD12	1:F4:370:GLY:HA2	1.92	0.52
1:OO:150:GLU:HG3	1:OO:151:THR:HG23	1.91	0.52
1:LO:183:LEU:HD22	1:LO:360:VAL:HG21	1.91	0.52
2:AM:32:ARG:NH2	2:AM:67:ARG:O	2.41	0.52
1:OJ:193:TRP:HE1	1:OJ:197:ARG:HE	1.58	0.52
1:IJ:98:GLY:HA2	1:FE:162:ILE:HD12	1.90	0.52
1:AF:167:ILE:HG21	1:AF:342:ALA:HB3	1.91	0.52
1:NE:89:ALA:HB2	1:FE:193:TRP:HZ3	1.75	0.52
1:WE:243:THR:O	1:WE:250:ALA:HB2	2.10	0.52
1:UE:171:GLU:HG2	1:X9:181:ARG:HH21	1.75	0.52
1:TE:104:PRO:HB3	1:SE:133:SER:HB2	1.92	0.52
1:JE:338:GLY:HA2	1:JE:374:ASP:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LE:139:ASP:H	1:HE:112:GLY:HA2	1.75	0.52
2:BC:32:ARG:NH2	2:BC:67:ARG:O	2.41	0.52
1:N9:185:ASP:O	1:F9:102:VAL:HG23	2.10	0.52
1:M9:125:SER:OG	1:M9:336:GLY:O	2.27	0.52
1:K9:171:GLU:HA	1:K9:367:ARG:HA	1.92	0.52
1:C9:134:PHE:HB3	1:C9:167:ILE:HB	1.92	0.52
7:3A:90:LEU:HD22	7:3B:46:GLU:HG2	1.91	0.52
8:5G:111:ASP:OD2	8:5H:31:ARG:NH1	2.42	0.52
6:4F:104:LEU:C	6:4F:104:LEU:HD12	2.34	0.52
7:3F:80:PHE:HB2	7:3F:87:PHE:HB2	1.91	0.52
9:7A:147:HIS:NE2	9:7A:150:CYS:O	2.40	0.52
9:7A:148:PRO:HB2	10:8B:904:ARG:HH22	1.73	0.52
8:5Y:49:GLY:HA2	11:6F:195:PHE:CE1	2.43	0.52
9:7C:138:LEU:HB3	10:8C:803:ARG:HB3	1.92	0.52
9:7B:77:SER:H	9:7B:80:ALA:HB3	1.74	0.52
10:8B:861:ILE:HG22	10:8B:922:ARG:HD3	1.92	0.52
1:X4:181:ARG:HH21	1:U9:171:GLU:HG2	1.75	0.52
1:OO:167:ILE:HD12	1:OO:370:GLY:HA2	1.92	0.52
1:PO:257:ALA:HB1	1:PO:381:LEU:HD11	1.92	0.52
1:HO:100:TYR:O	1:DO:164:ARG:NH1	2.43	0.52
1:EO:262:VAL:HG21	1:EO:310:MET:HG2	1.92	0.52
1:CO:134:PHE:HB3	1:CO:167:ILE:HB	1.92	0.52
1:BK:171:GLU:HA	1:BK:367:ARG:HA	1.92	0.52
1:WJ:243:THR:O	1:WJ:250:ALA:HB2	2.10	0.52
1:AJ:125:SER:OG	1:AJ:336:GLY:O	2.27	0.52
1:CJ:134:PHE:HB3	1:CJ:167:ILE:HB	1.92	0.52
1:IE:182:LEU:O	1:IE:186:SER:CB	2.58	0.52
1:CE:167:ILE:HD12	1:CE:370:GLY:HA2	1.91	0.52
1:P9:257:ALA:HB1	1:P9:381:LEU:HD11	1.92	0.52
1:T9:125:SER:OG	1:T9:336:GLY:O	2.28	0.52
1:T9:215:GLY:HA2	1:T9:220:THR:HG22	1.90	0.52
1:F9:167:ILE:HD12	1:F9:370:GLY:HA2	1.92	0.52
5:1A:250:THR:O	5:1A:257:ASN:ND2	2.43	0.52
8:5A:44:LEU:HD13	8:5A:44:LEU:O	2.10	0.52
6:4E:104:LEU:C	6:4E:104:LEU:HD12	2.34	0.52
8:5W:44:LEU:HD12	8:50:115:SER:C	2.34	0.52
4:2G:82:PRO:O	4:2G:139:GLY:N	2.42	0.52
8:5J:42:THR:CG2	8:5N:116:HIS:CE1	2.93	0.52
5:1E:343:SER:HB2	5:1E:349:GLN:HA	1.92	0.52
4:2F:71:ARG:O	4:2F:72:TRP:CD1	2.54	0.52
8:5U:32:ILE:CG2	8:5T:112:TYR:HB2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2C:64:ARG:HD3	4:2C:133:GLU:OE2	2.10	0.52
8:5B:44:LEU:HD13	8:5B:44:LEU:O	2.10	0.52
9:7A:219:ARG:NH2	10:8B:980:ASP:OD2	2.43	0.52
11:6A:24:THR:OG1	11:6F:72:GLN:HG2	2.10	0.52
11:6A:45:ARG:H	11:6A:207:GLU:HG2	1.75	0.52
1:A5:134:PHE:HZ	5:1B:44:ARG:HH12	1.53	0.51
1:B5:143:MET:O	1:B5:158:ALA:HB3	2.10	0.51
1:U4:106:THR:HA	1:T4:135:ASP:HB2	1.91	0.51
1:L4:139:ASP:H	1:H4:112:GLY:HA2	1.75	0.51
1:L4:254:ALA:O	1:L4:255:SER:OG	2.21	0.51
1:I4:291:ALA:O	2:B2:10:SER:HB2	2.10	0.51
1:G4:121:ARG:NH2	1:G4:343:GLU:OE1	2.40	0.51
1:G4:352:ASP:HB3	1:D9:354:PHE:HD1	1.75	0.51
1:BP:171:GLU:HA	1:BP:367:ARG:HA	1.92	0.51
1:NO:185:ASP:O	1:FO:102:VAL:HG23	2.10	0.51
1:RO:183:LEU:HD13	1:RO:360:VAL:HG21	1.92	0.51
1:XJ:139:ASP:N	1:XJ:139:ASP:OD1	2.43	0.51
1:YJ:298:ALA:HB2	1:YJ:306:PRO:HD3	1.92	0.51
1:DJ:354:PHE:HD1	1:GE:352:ASP:HB3	1.74	0.51
2:BI:32:ARG:NH2	2:BI:67:ARG:O	2.41	0.51
1:PE:95:ALA:HA	1:PE:99:GLY:HA3	1.92	0.51
1:PE:167:ILE:HD12	1:PE:370:GLY:HA2	1.92	0.51
1:WE:275:PHE:HB2	1:WE:314:VAL:HG22	1.92	0.51
1:KE:171:GLU:HA	1:KE:367:ARG:HA	1.92	0.51
1:EE:262:VAL:HG21	1:EE:310:MET:HG2	1.92	0.51
1:AA:121:ARG:NH2	1:AA:343:GLU:OE1	2.43	0.51
1:Q9:167:ILE:HG21	1:Q9:342:ALA:HB3	1.93	0.51
1:H9:100:TYR:O	1:D9:164:ARG:NH1	2.43	0.51
1:G9:139:ASP:OD1	1:G9:139:ASP:N	2.43	0.51
2:B7:32:ARG:NH2	2:B7:67:ARG:O	2.41	0.51
8:5X:32:ILE:O	8:5W:111:ASP:HA	2.10	0.51
4:2I:82:PRO:O	4:2I:139:GLY:N	2.41	0.51
5:1I:343:SER:HB2	5:1I:349:GLN:HA	1.92	0.51
8:5Q:9:LEU:HD21	8:5P:113:ALA:C	2.35	0.51
4:2G:2:MET:HE2	4:2H:109:PRO:HB2	1.93	0.51
4:2G:64:ARG:HD3	4:2G:133:GLU:OE2	2.10	0.51
8:5D:44:LEU:HD13	8:5D:44:LEU:O	2.10	0.51
8:5V:32:ILE:CG2	8:5U:112:TYR:HB2	2.39	0.51
8:5J:31:ARG:NH1	8:5I:111:ASP:OD2	2.43	0.51
10:8A:118:ALA:HA	10:8A:180:VAL:HA	1.91	0.51
10:8C:794:TYR:HD1	10:8C:900:LEU:HB3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:7B:65:LEU:CD1	10:8B:803:ARG:HB2	2.39	0.51
10:8B:146:MET:HB3	10:8B:181:LEU:HD23	1.93	0.51
1:A5:168:PRO:CG	4:2L:120:GLY:CA	2.88	0.51
1:Q4:167:ILE:HG21	1:Q4:342:ALA:HB3	1.93	0.51
1:U4:357:LYS:NZ	1:QO:352:ASP:OD2	2.38	0.51
1:BP:219:PRO:HG3	1:BP:369:GLY:HA2	1.91	0.51
1:QO:121:ARG:NH1	1:QO:343:GLU:OE2	2.44	0.51
1:TO:104:PRO:HB3	1:SO:133:SER:HB2	1.92	0.51
1:LO:344:ARG:HE	1:LO:367:ARG:HD3	1.76	0.51
1:BK:219:PRO:HG3	1:BK:369:GLY:HA2	1.91	0.51
1:EJ:132:THR:HB	1:FJ:102:VAL:CG2	2.41	0.51
1:XE:95:ALA:HA	1:XE:99:GLY:HA3	1.92	0.51
1:AA:199:ALA:HB1	5:1D:38:ARG:NH2	2.24	0.51
1:BA:143:MET:O	1:BA:158:ALA:HB3	2.10	0.51
1:BA:347:LEU:O	5:1E:162:GLY:C	2.52	0.51
1:W9:104:PRO:HB3	1:V9:133:SER:HB2	1.91	0.51
4:2A:35:GLU:OE1	4:2A:35:GLU:N	2.39	0.51
4:2A:64:ARG:HD3	4:2A:133:GLU:OE2	2.10	0.51
7:3A:80:PHE:HB2	7:3A:87:PHE:HB2	1.91	0.51
8:5G:44:LEU:CD1	8:5R:7:LYS:HA	2.40	0.51
4:2K:64:ARG:HD3	4:2K:133:GLU:OE2	2.10	0.51
8:5F:41:VAL:HA	8:5K:28:ARG:HH12	1.75	0.51
8:5F:50:TRP:CB	8:5E:131:ALA:HA	2.40	0.51
5:1I:44:ARG:HB3	5:1I:44:ARG:CZ	2.41	0.51
8:5D:13:LEU:HD13	8:5D:24:ILE:HG23	1.91	0.51
8:5D:41:VAL:HA	8:5I:28:ARG:NH1	2.25	0.51
8:5V:51:ARG:CZ	8:5U:61:SER:CB	2.89	0.51
8:5O:44:LEU:HG	8:5T:7:LYS:HG2	1.91	0.51
8:5T:54:LEU:HD11	8:5Z:4:GLN:C	2.34	0.51
10:8A:861:ILE:HG22	10:8A:922:ARG:HD3	1.93	0.51
11:6E:45:ARG:H	11:6E:207:GLU:HG2	1.75	0.51
11:6D:77:ARG:HH22	11:6D:175:PHE:H	1.58	0.51
1:X4:223:LEU:O	1:X4:227:LYS:NZ	2.34	0.51
1:Q4:121:ARG:NH1	1:Q4:343:GLU:OE2	2.44	0.51
1:O4:125:SER:OG	1:O4:336:GLY:O	2.26	0.51
1:H4:181:ARG:HH21	1:D4:171:GLU:HG2	1.75	0.51
1:A4:149:SER:HB2	1:A4:152:ALA:HB2	1.92	0.51
2:C3:32:ARG:NH2	2:C3:67:ARG:O	2.41	0.51
1:AP:346:ASP:CA	5:1K:41:TRP:NE1	2.68	0.51
1:QO:167:ILE:HG21	1:QO:342:ALA:HB3	1.92	0.51
1:HO:181:ARG:HH21	1:DO:171:GLU:HG2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MJ:334:ASP:OD2	1:MJ:337:ASN:ND2	2.43	0.51
1:UJ:125:SER:OG	1:UJ:336:GLY:O	2.28	0.51
1:TJ:125:SER:OG	1:TJ:336:GLY:O	2.28	0.51
2:CI:32:ARG:NH2	2:CI:67:ARG:O	2.41	0.51
1:AF:289:LYS:NZ	1:AF:289:LYS:CB	2.73	0.51
1:BF:357:LYS:N	1:BF:358:PRO:CD	2.71	0.51
1:RE:286:ARG:HH22	1:RE:305:GLU:H	1.59	0.51
1:UE:106:THR:HA	1:TE:135:ASP:HB2	1.91	0.51
1:L9:182:LEU:O	1:L9:186:SER:HB3	2.10	0.51
1:A9:149:SER:HB2	1:A9:152:ALA:HB2	1.92	0.51
2:C8:32:ARG:NH2	2:C8:67:ARG:O	2.41	0.51
8:5A:50:TRP:CZ2	8:5F:132:LEU:HB2	2.45	0.51
7:3E:53:THR:O	7:3E:53:THR:CG2	2.53	0.51
8:5V:49:GLY:O	8:5U:60:ARG:HG2	2.08	0.51
8:5J:41:VAL:HA	8:5O:28:ARG:NH1	2.24	0.51
4:2E:2:MET:HE2	4:2F:109:PRO:HB2	1.93	0.51
8:5O:53:LEU:HB2	8:5N:129:ALA:HA	1.91	0.51
4:2C:2:MET:HE2	4:2D:109:PRO:HB2	1.92	0.51
10:8A:146:MET:HB3	10:8A:181:LEU:HD23	1.93	0.51
11:6B:72:GLN:HG2	11:6C:24:THR:HG21	1.92	0.51
1:Y4:298:ALA:HB2	1:Y4:306:PRO:HD3	1.92	0.51
1:B5:121:ARG:NH1	1:B5:343:GLU:OE2	2.43	0.51
1:V4:348:ARG:O	1:V4:364:ALA:HA	2.11	0.51
1:L4:167:ILE:HD12	1:L4:370:GLY:HA2	1.93	0.51
1:BP:121:ARG:NH1	1:BP:343:GLU:OE2	2.43	0.51
1:PO:181:ARG:HH21	1:WO:171:GLU:HG2	1.75	0.51
1:LO:139:ASP:H	1:HO:112:GLY:HA2	1.75	0.51
1:AO:89:ALA:HB2	1:CJ:193:TRP:HZ3	1.75	0.51
1:AO:183:LEU:HD22	1:AO:360:VAL:HG21	1.93	0.51
1:GO:259:VAL:HG22	1:GO:310:MET:CE	2.40	0.51
1:XJ:227:LYS:HG2	1:XJ:380:LEU:HD22	1.93	0.51
1:ZJ:348:ARG:HH22	1:CF:180:GLN:HG2	1.74	0.51
1:BK:121:ARG:NH1	1:BK:343:GLU:OE2	2.43	0.51
1:PJ:95:ALA:HA	1:PJ:99:GLY:HA3	1.92	0.51
1:WJ:275:PHE:HB2	1:WJ:314:VAL:HG22	1.92	0.51
1:SJ:344:ARG:NH1	1:KJ:185:ASP:OD1	2.39	0.51
1:KJ:171:GLU:HA	1:KJ:367:ARG:HA	1.92	0.51
1:LJ:182:LEU:O	1:LJ:186:SER:HB3	2.10	0.51
1:HJ:125:SER:OG	1:HJ:336:GLY:O	2.28	0.51
1:EJ:262:VAL:HG21	1:EJ:310:MET:HG2	1.93	0.51
1:CF:256:ASP:HB2	1:XE:287:LYS:HE2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YE:129:VAL:HG11	1:YE:342:ALA:HB1	1.92	0.51
1:VE:275:PHE:HB2	1:VE:314:VAL:HG22	1.92	0.51
1:AE:183:LEU:HD22	1:AE:360:VAL:HG21	1.93	0.51
1:EE:132:THR:HB	1:FE:102:VAL:CG2	2.41	0.51
1:Y9:129:VAL:HG11	1:Y9:342:ALA:HB1	1.92	0.51
1:D9:148:ALA:HB2	1:D9:154:LEU:HD22	1.93	0.51
1:G9:259:VAL:HG22	1:G9:310:MET:CE	2.40	0.51
5:1A:44:ARG:HB3	5:1A:44:ARG:CZ	2.41	0.51
5:1A:252:HIS:NE2	4:2B:192:VAL:O	2.43	0.51
8:5A:132:LEU:H	8:5B:50:TRP:NE1	2.07	0.51
8:5S:83:PHE:CZ	8:5T:34:PHE:HB3	2.46	0.51
4:2I:2:MET:HE2	4:2J:109:PRO:HB2	1.92	0.51
6:4E:50:GLU:OE2	6:4D:82:LYS:NZ	2.34	0.51
8:5T:54:LEU:CG	8:5Z:3:ALA:CB	2.89	0.51
10:8C:215:LEU:HD13	10:8C:761:ALA:HA	1.92	0.51
10:8C:812:ALA:O	10:8C:913:ARG:NH1	2.44	0.51
1:B5:186:SER:CB	5:1B:51:ARG:NH2	2.73	0.51
1:Q4:185:ASP:N	1:Q4:185:ASP:OD1	2.42	0.51
1:P4:167:ILE:HD12	1:P4:370:GLY:HA2	1.92	0.51
1:U4:171:GLU:HG2	1:XO:181:ARG:HH21	1.75	0.51
1:L4:183:LEU:HD22	1:L4:360:VAL:HG21	1.91	0.51
1:I4:181:ARG:HG3	1:FO:367:ARG:HH22	1.74	0.51
1:XO:227:LYS:HG2	1:XO:380:LEU:HD22	1.93	0.51
1:LO:167:ILE:HD12	1:LO:370:GLY:HA2	1.93	0.51
2:EM:32:ARG:NH2	2:EM:67:ARG:O	2.41	0.51
1:UJ:121:ARG:NH1	1:UJ:343:GLU:OE2	2.44	0.51
1:CF:263:TYR:OH	1:XE:305:GLU:OE1	2.25	0.51
1:YE:298:ALA:HB2	1:YE:306:PRO:HD3	1.92	0.51
1:ME:334:ASP:OD2	1:ME:337:ASN:ND2	2.43	0.51
1:OE:167:ILE:HD12	1:OE:370:GLY:HA2	1.92	0.51
1:UE:121:ARG:NH1	1:UE:343:GLU:OE2	2.44	0.51
1:FE:167:ILE:HD12	1:FE:370:GLY:HA2	1.92	0.51
1:X9:139:ASP:N	1:X9:139:ASP:OD1	2.43	0.51
1:AA:211:ILE:HD12	1:AA:319:ASP:HB2	1.92	0.51
1:AA:289:LYS:NZ	1:AA:289:LYS:CB	2.73	0.51
1:R9:286:ARG:HH22	1:R9:305:GLU:H	1.59	0.51
2:E8:19:TYR:OH	2:E8:31:ARG:O	2.23	0.51
2:B8:32:ARG:NH2	2:B8:67:ARG:O	2.41	0.51
5:1K:44:ARG:CZ	5:1K:44:ARG:HB3	2.40	0.51
5:1K:250:THR:O	5:1K:257:ASN:ND2	2.43	0.51
8:5F:13:LEU:HD13	8:5F:24:ILE:HG23	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5R:44:LEU:HG	8:5W:7:LYS:HG2	1.92	0.51
5:1I:252:HIS:NE2	4:2J:192:VAL:O	2.43	0.51
8:5Q:55:GLY:HA2	8:5P:106:MET:CE	2.39	0.51
7:3C:85:ARG:NH1	7:3B:94:GLU:OE2	2.43	0.51
8:5C:13:LEU:HD13	8:5C:24:ILE:HG23	1.91	0.51
5:1C:142:ARG:NH2	5:1C:158:TYR:OH	2.44	0.51
9:7A:138:LEU:HB3	10:8A:803:ARG:HB3	1.92	0.51
10:8A:794:TYR:HD1	10:8A:900:LEU:HB3	1.75	0.51
8:5Y:50:TRP:CE3	8:53:60:ARG:HG3	2.45	0.51
10:8C:833:VAL:HG11	10:8C:943:ARG:HB2	1.92	0.51
9:7B:199:GLY:H	9:7B:215:VAL:HG12	1.76	0.51
10:8B:833:VAL:HG11	10:8B:943:ARG:HB2	1.92	0.51
1:N4:167:ILE:HD12	1:N4:370:GLY:HA2	1.92	0.51
1:P4:181:ARG:HH21	1:W4:171:GLU:HG2	1.74	0.51
1:H4:344:ARG:HE	1:H4:367:ARG:HD3	1.76	0.51
1:D4:228:VAL:O	1:D4:239:GLY:HA2	2.11	0.51
1:E4:132:THR:HB	1:F4:102:VAL:CG2	2.41	0.51
1:C4:95:ALA:HA	1:C4:99:GLY:HA3	1.93	0.51
1:C4:134:PHE:HB3	1:C4:167:ILE:HB	1.92	0.51
1:ZO:289:LYS:HD3	1:ZO:293:GLY:HA2	1.93	0.51
1:AP:289:LYS:NZ	1:AP:289:LYS:CB	2.73	0.51
1:BP:193:TRP:H	5:1L:44:ARG:HH22	1.59	0.51
1:MO:162:ILE:HD13	1:FO:100:TYR:HB2	1.92	0.51
1:VO:275:PHE:HB2	1:VO:314:VAL:HG22	1.92	0.51
1:HO:340:THR:OG1	1:IO:111:ARG:NH1	2.39	0.51
1:HO:344:ARG:HE	1:HO:367:ARG:HD3	1.76	0.51
1:EO:132:THR:HB	1:FO:102:VAL:CG2	2.41	0.51
2:DN:32:ARG:NH2	2:DN:67:ARG:O	2.41	0.51
1:YJ:348:ARG:HE	1:YJ:365:SER:HG	1.58	0.51
1:AK:349:VAL:HG13	5:1H:162:GLY:CA	2.40	0.51
1:NJ:89:ALA:HB2	1:FJ:193:TRP:HZ3	1.75	0.51
1:OJ:167:ILE:HD12	1:OJ:370:GLY:HA2	1.92	0.51
1:VJ:348:ARG:O	1:VJ:364:ALA:HA	2.11	0.51
1:LJ:139:ASP:H	1:HJ:112:GLY:HA2	1.75	0.51
1:LJ:254:ALA:O	1:LJ:255:SER:OG	2.21	0.51
1:IJ:182:LEU:O	1:IJ:186:SER:CB	2.58	0.51
1:YE:139:ASP:H	1:ZE:112:GLY:HA2	1.75	0.51
1:AE:215:GLY:HA2	1:AE:220:THR:HG22	1.92	0.51
2:DC:19:TYR:OH	2:DC:31:ARG:O	2.22	0.51
1:N9:121:ARG:NH2	1:N9:343:GLU:OE1	2.42	0.51
1:O9:193:TRP:HE1	1:O9:197:ARG:HE	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E9:132:THR:HB	1:F9:102:VAL:CG2	2.41	0.51
1:C9:167:ILE:HD12	1:C9:370:GLY:HA2	1.91	0.51
7:3A:14:GLU:OE1	7:3A:32:LYS:NZ	2.44	0.51
8:5A:27:LEU:CD1	6:4B:58:LYS:HZ1	2.24	0.51
8:5A:86:GLY:HA3	8:5B:60:ARG:NH1	2.25	0.51
8:5S:134:PHE:CD1	8:5X:80:ARG:HD3	2.46	0.51
8:5E:50:TRP:CD1	8:5D:131:ALA:HA	2.46	0.51
8:5Q:44:LEU:N	8:5U:116:HIS:CB	2.73	0.51
5:1G:24:SER:OG	5:1F:125:VAL:HG21	2.11	0.51
5:1G:26:THR:CG2	5:1F:167:PHE:HZ	2.24	0.51
10:8C:146:MET:HB3	10:8C:181:LEU:HD23	1.93	0.51
10:8C:861:ILE:HG22	10:8C:922:ARG:HD3	1.93	0.51
1:C5:180:GLN:HG2	1:Z9:348:ARG:HH22	1.74	0.51
1:X4:227:LYS:HG2	1:X4:380:LEU:HD22	1.93	0.51
1:A5:133:SER:OG	4:2L:121:ALA:HB1	2.10	0.51
1:R4:286:ARG:HH22	1:R4:305:GLU:H	1.59	0.51
1:Q4:125:SER:OG	1:Q4:336:GLY:O	2.26	0.51
1:J4:182:LEU:O	1:J4:186:SER:OG	2.28	0.51
1:L4:275:PHE:HB2	1:L4:314:VAL:HG22	1.93	0.51
1:L4:344:ARG:HE	1:L4:367:ARG:HD3	1.76	0.51
1:PO:167:ILE:HD12	1:PO:370:GLY:HA2	1.92	0.51
1:UO:121:ARG:NH1	1:UO:343:GLU:OE2	2.44	0.51
1:HO:133:SER:HB2	1:IO:104:PRO:HB3	1.93	0.51
1:IO:182:LEU:O	1:IO:186:SER:CB	2.58	0.51
1:CO:144:GLY:O	1:CO:157:THR:OG1	2.29	0.51
1:CK:256:ASP:HB2	1:XJ:287:LYS:HE2	1.93	0.51
1:XJ:95:ALA:HA	1:XJ:99:GLY:HA3	1.92	0.51
1:NJ:167:ILE:HD12	1:NJ:370:GLY:HA2	1.93	0.51
1:QJ:167:ILE:HG21	1:QJ:342:ALA:HB3	1.93	0.51
1:BF:130:GLU:OE1	1:BF:344:ARG:NH2	2.44	0.51
1:OE:193:TRP:HE1	1:OE:197:ARG:HE	1.58	0.51
1:UE:129:VAL:HG11	1:UE:342:ALA:HB1	1.93	0.51
1:LE:344:ARG:HE	1:LE:367:ARG:HD3	1.76	0.51
1:FE:262:VAL:HG21	1:FE:310:MET:HG2	1.91	0.51
1:AA:170:HIS:CE1	4:2B:125:MET:HG3	2.45	0.51
1:U9:106:THR:HA	1:T9:135:ASP:HB2	1.91	0.51
1:L9:139:ASP:H	1:H9:112:GLY:HA2	1.75	0.51
1:E9:262:VAL:HG21	1:E9:310:MET:HG2	1.92	0.51
5:1K:24:SER:HB2	5:1J:136:HIS:CD2	2.46	0.51
8:5X:51:ARG:CZ	8:5W:61:SER:CB	2.89	0.51
5:1I:142:ARG:NH2	5:1I:158:TYR:OH	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5E:44:LEU:HD13	8:5E:44:LEU:O	2.10	0.51
4:2G:89:LEU:O	4:2G:89:LEU:CD2	2.57	0.51
7:3D:85:ARG:NH1	7:3C:94:GLU:OE2	2.42	0.51
8:5V:95:ILE:HG22	8:5U:70:PHE:CE2	2.46	0.51
4:2C:35:GLU:OE1	4:2C:35:GLU:N	2.39	0.51
10:8A:220:ARG:HG3	10:8A:220:ARG:O	2.10	0.51
11:6A:24:THR:HG21	11:6F:72:GLN:HE21	1.76	0.51
9:7C:160:ARG:O	9:7C:263:ASN:ND2	2.44	0.51
9:7B:147:HIS:NE2	9:7B:150:CYS:O	2.40	0.51
11:6D:206:VAL:O	11:6D:207:GLU:HG3	2.09	0.51
11:6C:45:ARG:H	11:6C:207:GLU:HG2	1.75	0.51
1:B5:130:GLU:OE1	1:B5:344:ARG:NH2	2.44	0.51
1:T4:125:SER:OG	1:T4:336:GLY:O	2.28	0.51
1:E4:262:VAL:HG21	1:E4:310:MET:HG2	1.92	0.51
1:AO:215:GLY:HA2	1:AO:220:THR:HG22	1.92	0.51
1:ZJ:289:LYS:HD3	1:ZJ:293:GLY:HA2	1.93	0.51
1:NJ:125:SER:OG	1:NJ:336:GLY:O	2.25	0.51
1:QJ:121:ARG:NH1	1:QJ:343:GLU:OE2	2.44	0.51
1:PJ:257:ALA:HB1	1:PJ:381:LEU:HD11	1.92	0.51
1:TJ:104:PRO:HB3	1:SJ:133:SER:HB2	1.92	0.51
1:GJ:139:ASP:OD1	1:GJ:139:ASP:N	2.43	0.51
1:GJ:147:TRP:CZ2	1:BJ:209:ALA:HB2	2.44	0.51
2:AG:19:TYR:OH	2:AG:31:ARG:O	2.23	0.51
2:EH:32:ARG:NH2	2:EH:67:ARG:O	2.41	0.51
1:XE:227:LYS:HG2	1:XE:380:LEU:HD22	1.93	0.51
1:NE:185:ASP:O	1:FE:102:VAL:HG23	2.10	0.51
1:ME:189:ASP:OD1	1:ME:189:ASP:N	2.44	0.51
1:HE:181:ARG:HH21	1:DE:171:GLU:HG2	1.75	0.51
1:AE:182:LEU:O	1:AE:186:SER:OG	2.29	0.51
1:DE:228:VAL:O	1:DE:239:GLY:HA2	2.11	0.51
1:GE:95:ALA:HA	1:GE:99:GLY:HA3	1.92	0.51
1:X9:227:LYS:HG2	1:X9:380:LEU:HD22	1.93	0.51
1:J9:338:GLY:HA2	1:J9:374:ASP:HB3	1.92	0.51
1:L9:167:ILE:HD12	1:L9:370:GLY:HA2	1.93	0.51
1:L9:275:PHE:HB2	1:L9:314:VAL:HG22	1.93	0.51
1:H9:181:ARG:HH21	1:D9:171:GLU:HG2	1.75	0.51
1:H9:344:ARG:HE	1:H9:367:ARG:HD3	1.76	0.51
4:2A:89:LEU:HD22	4:2A:101:VAL:HG21	1.93	0.51
4:2A:111:MET:SD	5:1L:239:GLU:OE2	2.69	0.51
5:1B:239:GLU:OE2	4:2C:111:MET:SD	2.69	0.51
5:1K:142:ARG:NH2	5:1K:158:TYR:OH	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:3F:53:THR:O	7:3F:53:THR:CG2	2.53	0.51
4:2I:89:LEU:HD22	4:2I:101:VAL:HG21	1.93	0.51
5:1I:26:THR:CG2	5:1H:167:PHE:HZ	2.23	0.51
5:1G:44:ARG:CZ	5:1G:44:ARG:HB3	2.41	0.51
9:7A:65:LEU:HB2	10:8A:803:ARG:NH2	2.26	0.51
9:7A:160:ARG:O	9:7A:263:ASN:ND2	2.44	0.51
11:6A:46:HIS:ND1	11:6A:206:VAL:HG12	2.26	0.51
10:8C:866:ARG:HG2	9:7B:145:ILE:HD12	1.91	0.51
11:6C:184:ASP:N	11:6C:204:PRO:O	2.37	0.51
1:Z4:289:LYS:HD3	1:Z4:293:GLY:HA2	1.93	0.51
1:B5:171:GLU:HA	1:B5:367:ARG:HA	1.92	0.51
1:M4:125:SER:OG	1:M4:336:GLY:O	2.27	0.51
1:O4:150:GLU:HG3	1:O4:151:THR:HG23	1.91	0.51
1:P4:257:ALA:HB1	1:P4:381:LEU:HD11	1.92	0.51
1:H4:100:TYR:O	1:D4:164:ARG:NH1	2.43	0.51
1:CP:265:LEU:HD23	1:CP:379:LYS:HG2	1.93	0.51
1:BP:143:MET:O	1:BP:158:ALA:HB3	2.10	0.51
1:NO:352:ASP:OD2	1:LO:357:LYS:NZ	2.39	0.51
1:VO:348:ARG:O	1:VO:364:ALA:HA	2.11	0.51
1:GO:147:TRP:CZ2	1:BO:209:ALA:HB2	2.44	0.51
2:DM:19:TYR:OH	2:DM:31:ARG:O	2.22	0.51
1:BK:177:LYS:HA	1:BK:361:LEU:HA	1.93	0.51
1:NJ:185:ASP:O	1:FJ:102:VAL:HG23	2.10	0.51
1:MJ:162:ILE:HD13	1:FJ:100:TYR:HB2	1.92	0.51
1:UJ:171:GLU:HG2	1:XE:181:ARG:HH21	1.75	0.51
1:HJ:344:ARG:HE	1:HJ:367:ARG:HD3	1.76	0.51
1:GJ:95:ALA:HA	1:GJ:99:GLY:HA3	1.92	0.51
1:AF:211:ILE:HD12	1:AF:319:ASP:HB2	1.93	0.51
1:LE:275:PHE:HB2	1:LE:314:VAL:HG22	1.93	0.51
1:EE:130:GLU:O	1:EE:344:ARG:NH1	2.44	0.51
1:CE:121:ARG:NH2	1:CE:343:GLU:OE1	2.39	0.51
1:CE:134:PHE:HB3	1:CE:167:ILE:HB	1.92	0.51
2:AB:19:TYR:OH	2:AB:31:ARG:O	2.23	0.51
1:W9:275:PHE:HB2	1:W9:314:VAL:HG22	1.92	0.51
1:T9:104:PRO:HB3	1:S9:133:SER:HB2	1.92	0.51
1:V9:275:PHE:HB2	1:V9:314:VAL:HG22	1.92	0.51
5:1A:98:ASN:OD1	5:1A:98:ASN:N	2.43	0.51
8:5S:32:ILE:HG23	8:5X:112:TYR:H	1.75	0.51
5:1G:142:ARG:NH2	5:1G:158:TYR:OH	2.44	0.51
8:5P:53:LEU:HB2	8:5O:129:ALA:HA	1.92	0.51
5:1C:343:SER:HB2	5:1C:349:GLN:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:6A:24:THR:HG21	11:6F:72:GLN:HG2	1.93	0.51
9:7B:183:LEU:HD22	9:7B:228:ILE:HD11	1.93	0.51
11:6C:46:HIS:ND1	11:6C:206:VAL:HG12	2.26	0.51
1:C5:265:LEU:HD23	1:C5:379:LYS:HG2	1.93	0.51
1:Q4:227:LYS:HA	1:Q4:237:SER:HB2	1.93	0.51
1:U4:121:ARG:NH1	1:U4:343:GLU:OE2	2.44	0.51
1:K4:125:SER:OG	1:K4:336:GLY:O	2.28	0.51
1:G4:95:ALA:HA	1:G4:99:GLY:HA3	1.92	0.51
1:XO:95:ALA:HA	1:XO:99:GLY:HA3	1.92	0.51
2:EN:32:ARG:NH2	2:EN:67:ARG:O	2.41	0.51
1:BK:130:GLU:OE1	1:BK:344:ARG:NH2	2.44	0.51
1:IE:181:ARG:HG3	1:F9:367:ARG:HH22	1.75	0.51
1:L9:344:ARG:HE	1:L9:367:ARG:HD3	1.76	0.51
1:I9:182:LEU:O	1:I9:186:SER:CB	2.58	0.51
1:D9:228:VAL:O	1:D9:239:GLY:HA2	2.11	0.51
2:B8:19:TYR:OH	2:B8:31:ARG:O	2.23	0.51
4:2A:90:ARG:NH2	4:2A:133:GLU:OE2	2.30	0.51
5:1A:142:ARG:NH2	5:1A:158:TYR:OH	2.44	0.51
8:5M:44:LEU:HD22	8:5X:10:LEU:HD21	1.92	0.51
5:1K:98:ASN:OD1	5:1K:98:ASN:N	2.43	0.51
5:1K:252:HIS:NE2	4:2L:192:VAL:O	2.43	0.51
7:3E:14:GLU:OE1	7:3E:32:LYS:NZ	2.44	0.51
8:5V:134:PHE:HB2	8:5U:84:PHE:HE2	1.76	0.51
8:5O:33:SER:HA	8:5N:111:ASP:HB3	1.93	0.51
11:6F:46:HIS:ND1	11:6F:206:VAL:HG12	2.26	0.51
11:6E:163:GLU:HG2	11:6D:69:ARG:NH1	2.15	0.51
8:52:3:ALA:HA	8:51:71:LYS:HG2	1.93	0.51
8:52:50:TRP:CE3	8:51:60:ARG:HG3	2.46	0.51
1:N4:185:ASP:O	1:F4:102:VAL:HG23	2.10	0.50
1:H4:133:SER:HB2	1:I4:104:PRO:HB3	1.93	0.50
1:I4:182:LEU:O	1:I4:186:SER:CB	2.58	0.50
2:D2:32:ARG:NH2	2:D2:67:ARG:O	2.41	0.50
1:ZO:348:ARG:HH22	1:CK:180:GLN:HG2	1.74	0.50
1:BP:177:LYS:HA	1:BP:361:LEU:HA	1.93	0.50
1:KO:125:SER:OG	1:KO:336:GLY:O	2.28	0.50
1:IJ:134:PHE:HB3	1:IJ:167:ILE:HB	1.93	0.50
1:IJ:181:ARG:HG3	1:FE:367:ARG:HH22	1.75	0.50
1:AJ:184:ASP:OD2	1:BE:348:ARG:NH2	2.44	0.50
1:AJ:215:GLY:HA2	1:AJ:220:THR:HG22	1.92	0.50
1:DJ:263:TYR:OH	1:EJ:305:GLU:OE1	2.26	0.50
1:BF:143:MET:O	1:BF:158:ALA:HB3	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NE:294:ARG:HD3	1:OE:294:ARG:HH21	1.77	0.50
1:QE:167:ILE:HG21	1:QE:342:ALA:HB3	1.93	0.50
1:DE:350:LEU:O	1:DE:363:TYR:HB3	2.12	0.50
2:AD:32:ARG:NH2	2:AD:67:ARG:O	2.41	0.50
1:CA:256:ASP:HB2	1:X9:287:LYS:HE2	1.93	0.50
1:M9:189:ASP:N	1:M9:189:ASP:OD1	2.44	0.50
1:O9:167:ILE:HD12	1:O9:370:GLY:HA2	1.92	0.50
1:A9:182:LEU:O	1:A9:186:SER:OG	2.29	0.50
1:A9:288:MET:HE3	1:A9:297:TRP:HE1	1.76	0.50
4:2J:71:ARG:HG3	4:2J:72:TRP:CD1	2.47	0.50
4:2H:92:VAL:CG1	4:2H:93:ASP:N	2.74	0.50
6:4D:11:ALA:HA	7:3C:22:ALA:HA	1.93	0.50
4:2F:92:VAL:CG1	4:2F:93:ASP:N	2.74	0.50
9:7A:183:LEU:HD22	9:7A:228:ILE:HD11	1.93	0.50
9:7C:199:GLY:H	9:7C:215:VAL:HG12	1.76	0.50
11:6D:46:HIS:ND1	11:6D:206:VAL:HG12	2.26	0.50
1:A5:211:ILE:HD12	1:A5:319:ASP:HB2	1.93	0.50
1:W4:182:LEU:O	1:W4:186:SER:OG	2.29	0.50
1:D4:263:TYR:OH	1:E4:305:GLU:OE1	2.26	0.50
1:C4:144:GLY:O	1:C4:157:THR:OG1	2.29	0.50
1:NO:294:ARG:HD3	1:OO:294:ARG:HH21	1.77	0.50
1:UO:125:SER:OG	1:UO:336:GLY:O	2.29	0.50
1:TO:125:SER:OG	1:TO:336:GLY:O	2.28	0.50
1:BK:357:LYS:N	1:BK:358:PRO:CD	2.71	0.50
1:NJ:294:ARG:HD3	1:OJ:294:ARG:HH21	1.77	0.50
1:WJ:182:LEU:O	1:WJ:186:SER:OG	2.29	0.50
1:HJ:133:SER:HB2	1:IJ:104:PRO:HB3	1.93	0.50
1:HJ:181:ARG:HH21	1:DJ:171:GLU:HG2	1.75	0.50
1:CJ:129:VAL:HG21	1:CJ:134:PHE:HB2	1.93	0.50
1:ZE:289:LYS:HD3	1:ZE:293:GLY:HA2	1.93	0.50
1:PE:352:ASP:N	1:PE:352:ASP:OD1	2.45	0.50
1:KE:125:SER:OG	1:KE:336:GLY:O	2.28	0.50
1:HE:100:TYR:O	1:DE:164:ARG:NH1	2.43	0.50
1:HE:344:ARG:HE	1:HE:367:ARG:HD3	1.76	0.50
1:DE:113:VAL:HG22	1:CE:235:TRP:HZ3	1.77	0.50
1:DE:148:ALA:HB2	1:DE:154:LEU:HD22	1.93	0.50
1:GE:223:LEU:O	1:GE:227:LYS:NZ	2.33	0.50
2:CD:19:TYR:OH	2:CD:31:ARG:O	2.23	0.50
1:X9:95:ALA:HA	1:X9:99:GLY:HA3	1.92	0.50
1:Y9:348:ARG:HE	1:Y9:365:SER:HG	1.58	0.50
1:R9:256:ASP:HA	1:R9:259:VAL:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U9:121:ARG:NH1	1:U9:343:GLU:OE2	2.44	0.50
1:V9:348:ARG:O	1:V9:364:ALA:HA	2.11	0.50
1:E9:130:GLU:O	1:E9:344:ARG:NH1	2.44	0.50
2:D8:19:TYR:OH	2:D8:31:ARG:O	2.23	0.50
2:A7:32:ARG:NH2	2:A7:67:ARG:O	2.41	0.50
8:5A:35:ASN:HB2	8:5A:61:SER:HB3	1.93	0.50
4:2K:2:MET:HE2	4:2L:109:PRO:HB2	1.92	0.50
5:1K:343:SER:HB2	5:1K:349:GLN:HA	1.92	0.50
8:5R:53:LEU:HB2	8:5Q:129:ALA:HA	1.92	0.50
5:1I:250:THR:O	5:1I:257:ASN:ND2	2.44	0.50
5:1J:331:LEU:HD12	5:1J:354:PRO:HB3	1.94	0.50
4:2J:81:ALA:HA	4:2J:114:PRO:HG3	1.94	0.50
5:1G:233:GLN:HA	5:1F:266:GLY:HA3	1.92	0.50
5:1H:250:THR:O	5:1H:257:ASN:ND2	2.44	0.50
8:5P:34:PHE:O	8:5O:109:SER:HB2	2.11	0.50
4:2E:89:LEU:HD22	4:2E:101:VAL:HG21	1.93	0.50
5:1E:142:ARG:NH2	5:1E:158:TYR:OH	2.44	0.50
11:6B:45:ARG:HB2	11:6B:207:GLU:HG2	1.93	0.50
10:8B:812:ALA:O	10:8B:913:ARG:NH1	2.44	0.50
1:B5:177:LYS:HA	1:B5:361:LEU:HA	1.93	0.50
1:W4:275:PHE:HB2	1:W4:314:VAL:HG22	1.92	0.50
1:J4:338:GLY:HA2	1:J4:374:ASP:HB3	1.92	0.50
1:B4:136:VAL:HG22	1:B4:165:ILE:HB	1.93	0.50
1:XO:139:ASP:OD1	1:XO:139:ASP:N	2.43	0.50
1:YO:139:ASP:H	1:ZO:112:GLY:HA2	1.75	0.50
1:BP:130:GLU:OE1	1:BP:344:ARG:NH2	2.44	0.50
1:WO:338:GLY:HA2	1:WO:374:ASP:HB3	1.93	0.50
1:IO:289:LYS:HD3	1:IO:293:GLY:HA2	1.94	0.50
1:GO:223:LEU:O	1:GO:227:LYS:NZ	2.33	0.50
1:CO:95:ALA:HA	1:CO:99:GLY:HA3	1.93	0.50
1:CO:257:ALA:HB1	1:CO:381:LEU:HD11	1.91	0.50
1:RJ:183:LEU:HD13	1:RJ:360:VAL:HG21	1.92	0.50
1:MJ:189:ASP:OD1	1:MJ:189:ASP:N	2.44	0.50
1:WJ:338:GLY:HA2	1:WJ:374:ASP:HB3	1.93	0.50
1:GJ:151:THR:HG23	1:GJ:151:THR:O	2.12	0.50
1:CJ:144:GLY:O	1:CJ:157:THR:OG1	2.29	0.50
2:DI:32:ARG:NH2	2:DI:67:ARG:O	2.41	0.50
1:BF:177:LYS:HA	1:BF:361:LEU:HA	1.93	0.50
1:RE:183:LEU:HD13	1:RE:360:VAL:HG21	1.92	0.50
1:ME:162:ILE:HD13	1:FE:100:TYR:HB2	1.92	0.50
1:QE:227:LYS:HA	1:QE:237:SER:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:136:VAL:HG22	1:BE:165:ILE:HB	1.93	0.50
1:Z9:289:LYS:HD3	1:Z9:293:GLY:HA2	1.93	0.50
1:Z9:344:ARG:HE	1:Z9:367:ARG:HD3	1.77	0.50
1:Q9:121:ARG:NH1	1:Q9:343:GLU:OE2	2.44	0.50
1:I9:289:LYS:HD3	1:I9:293:GLY:HA2	1.94	0.50
1:D9:113:VAL:HG22	1:C9:235:TRP:HZ3	1.76	0.50
5:1A:343:SER:HB2	5:1A:349:GLN:HA	1.92	0.50
4:2B:71:ARG:HG3	4:2B:72:TRP:CD1	2.47	0.50
8:5M:134:PHE:CE2	8:5R:80:ARG:CZ	2.94	0.50
8:5F:35:ASN:HB2	8:5F:61:SER:HB3	1.93	0.50
8:5X:95:ILE:HG22	8:5W:70:PHE:CE2	2.46	0.50
4:2G:89:LEU:HD22	4:2G:101:VAL:HG21	1.93	0.50
4:2H:82:PRO:O	4:2H:139:GLY:N	2.45	0.50
5:1F:250:THR:O	5:1F:257:ASN:ND2	2.44	0.50
8:5B:35:ASN:HB2	8:5B:61:SER:HB3	1.93	0.50
10:8A:951:ARG:HG3	9:7C:87:LEU:HD21	1.93	0.50
9:7C:184:ARG:O	9:7C:185:LEU:HB3	2.12	0.50
9:7B:160:ARG:O	9:7B:263:ASN:ND2	2.44	0.50
1:N4:294:ARG:HD3	1:O4:294:ARG:HH21	1.77	0.50
1:R4:256:ASP:HA	1:R4:259:VAL:HG12	1.93	0.50
1:D4:354:PHE:HD1	1:GO:352:ASP:HB3	1.75	0.50
1:CP:256:ASP:HB2	1:XO:287:LYS:HE2	1.93	0.50
1:YO:223:LEU:O	1:YO:227:LYS:NZ	2.31	0.50
1:QO:242:ALA:HA	1:QO:382:LYS:O	2.12	0.50
1:RJ:286:ARG:HH22	1:RJ:305:GLU:H	1.59	0.50
1:QJ:227:LYS:HA	1:QJ:237:SER:HB2	1.93	0.50
1:KJ:125:SER:OG	1:KJ:336:GLY:O	2.28	0.50
1:LJ:171:GLU:HA	1:LJ:367:ARG:HA	1.94	0.50
1:HJ:100:TYR:O	1:DJ:164:ARG:NH1	2.43	0.50
1:AJ:183:LEU:HD22	1:AJ:360:VAL:HG21	1.93	0.50
2:DH:19:TYR:OH	2:DH:31:ARG:O	2.23	0.50
1:CF:277:MET:HG2	1:CF:330:ILE:HG12	1.94	0.50
1:QE:121:ARG:NH1	1:QE:343:GLU:OE2	2.44	0.50
1:QE:242:ALA:HA	1:QE:382:LYS:O	2.12	0.50
1:U9:125:SER:OG	1:U9:336:GLY:O	2.29	0.50
4:2A:2:MET:HE2	4:2B:109:PRO:HB2	1.93	0.50
8:5S:111:ASP:HB3	8:5T:33:SER:CA	2.39	0.50
4:2L:71:ARG:HG3	4:2L:72:TRP:CD1	2.47	0.50
5:1E:98:ASN:N	5:1E:98:ASN:OD1	2.43	0.50
5:1E:250:THR:O	5:1E:257:ASN:ND2	2.43	0.50
5:1F:331:LEU:HD12	5:1F:354:PRO:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5U:44:LEU:HD13	8:5Z:10:LEU:HD21	1.93	0.50
10:8A:812:ALA:O	10:8A:913:ARG:NH1	2.44	0.50
10:8A:818:LEU:HB3	10:8A:825:VAL:HG13	1.93	0.50
10:8A:866:ARG:HG2	9:7C:145:ILE:HD12	1.94	0.50
8:5Y:118:GLY:O	8:5Z:6:GLY:N	2.44	0.50
9:7C:65:LEU:HB2	10:8C:803:ARG:NH2	2.26	0.50
10:8C:844:LEU:HB2	11:6E:30:SER:HB3	1.92	0.50
9:7B:65:LEU:HB2	10:8B:803:ARG:NH2	2.26	0.50
10:8B:794:TYR:HD1	10:8B:900:LEU:HB3	1.75	0.50
11:6D:45:ARG:HB2	11:6D:207:GLU:HG2	1.93	0.50
1:Z4:344:ARG:HE	1:Z4:367:ARG:HD3	1.77	0.50
1:N4:164:ARG:NH1	1:L4:100:TYR:O	2.45	0.50
1:U4:129:VAL:HG11	1:U4:342:ALA:HB1	1.93	0.50
1:A4:183:LEU:HD22	1:A4:360:VAL:HG21	1.93	0.50
1:D4:350:LEU:O	1:D4:363:TYR:HB3	2.11	0.50
1:G4:376:ALA:HB3	1:B4:113:VAL:HG23	1.94	0.50
2:A2:32:ARG:NH2	2:A2:67:ARG:O	2.41	0.50
1:YO:182:LEU:HB2	1:QO:92:SER:HB3	1.94	0.50
1:NO:89:ALA:HB2	1:FO:193:TRP:HZ3	1.75	0.50
1:SO:183:LEU:HD22	1:SO:360:VAL:HG21	1.94	0.50
1:LO:182:LEU:O	1:LO:186:SER:HB3	2.10	0.50
1:DO:350:LEU:O	1:DO:363:TYR:HB3	2.11	0.50
1:CO:159:THR:HG21	1:BJ:90:LEU:H	1.76	0.50
1:AJ:182:LEU:O	1:AJ:186:SER:OG	2.29	0.50
1:DJ:228:VAL:O	1:DJ:239:GLY:HA2	2.11	0.50
1:FJ:167:ILE:HD12	1:FJ:370:GLY:HA2	1.92	0.50
1:BJ:344:ARG:HE	1:BJ:367:ARG:HD3	1.77	0.50
1:AF:125:SER:HB3	5:1G:38:ARG:NH2	2.25	0.50
1:PE:149:SER:C	1:PE:151:THR:H	2.20	0.50
1:VE:348:ARG:O	1:VE:364:ALA:HA	2.11	0.50
1:GE:121:ARG:NH2	1:GE:343:GLU:OE1	2.40	0.50
1:Y9:298:ALA:HB2	1:Y9:306:PRO:HD3	1.92	0.50
1:BA:130:GLU:OE1	1:BA:344:ARG:NH2	2.44	0.50
1:BA:171:GLU:HA	1:BA:367:ARG:HA	1.92	0.50
1:N9:167:ILE:HD12	1:N9:370:GLY:HA2	1.92	0.50
1:R9:183:LEU:HD13	1:R9:360:VAL:HG21	1.92	0.50
1:S9:183:LEU:HD22	1:S9:360:VAL:HG21	1.94	0.50
1:V9:382:LYS:HE2	1:V9:384:ALA:HB3	1.93	0.50
1:G9:95:ALA:HA	1:G9:99:GLY:HA3	1.92	0.50
1:G9:151:THR:HG23	1:G9:151:THR:O	2.12	0.50
1:C9:262:VAL:HG21	1:C9:310:MET:HG2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2J:82:PRO:O	4:2J:139:GLY:N	2.45	0.50
4:2G:190:VAL:HG12	5:1F:244:LEU:HD23	1.93	0.50
5:1H:331:LEU:HD12	5:1H:354:PRO:HB3	1.94	0.50
4:2E:82:PRO:O	4:2E:139:GLY:N	2.42	0.50
8:5O:55:GLY:HA2	8:5N:106:MET:HE2	1.94	0.50
5:1C:250:THR:O	5:1C:257:ASN:ND2	2.43	0.50
5:1C:252:HIS:NE2	4:2D:192:VAL:O	2.43	0.50
7:3B:14:GLU:OE1	7:3B:32:LYS:NZ	2.44	0.50
9:7C:134:LEU:HD21	10:8C:824:LEU:HB2	1.91	0.50
11:6E:24:THR:HG21	11:6D:72:GLN:HG2	1.94	0.50
1:M4:162:ILE:HD13	1:F4:100:TYR:HB2	1.92	0.50
1:A4:182:LEU:O	1:A4:186:SER:CB	2.60	0.50
1:B4:90:LEU:H	1:C9:159:THR:HG21	1.76	0.50
1:C4:193:TRP:HZ3	1:A9:89:ALA:HB2	1.76	0.50
1:ZO:191:GLU:OE2	1:ZO:351:ARG:NH1	2.45	0.50
1:NO:167:ILE:HD12	1:NO:370:GLY:HA2	1.93	0.50
1:UO:129:VAL:HG11	1:UO:342:ALA:HB1	1.93	0.50
1:DO:148:ALA:HB2	1:DO:154:LEU:HD22	1.93	0.50
1:DO:228:VAL:O	1:DO:239:GLY:HA2	2.11	0.50
1:EO:150:GLU:HG3	1:GO:91:ASN:CB	2.35	0.50
1:CK:277:MET:HG2	1:CK:330:ILE:HG12	1.94	0.50
1:MJ:157:THR:HG23	1:MJ:158:ALA:N	2.26	0.50
1:PJ:167:ILE:HD12	1:PJ:370:GLY:HA2	1.92	0.50
1:TJ:98:GLY:HA2	1:JJ:162:ILE:HD12	1.93	0.50
1:VJ:275:PHE:HB2	1:VJ:314:VAL:HG22	1.92	0.50
1:LJ:167:ILE:HD12	1:LJ:370:GLY:HA2	1.93	0.50
1:IJ:171:GLU:HG2	1:ME:181:ARG:NH2	2.23	0.50
1:BJ:136:VAL:HG22	1:BJ:165:ILE:HB	1.93	0.50
1:CJ:262:VAL:HG21	1:CJ:310:MET:HG2	1.94	0.50
1:NE:121:ARG:NH2	1:NE:343:GLU:OE1	2.42	0.50
1:PE:257:ALA:HB1	1:PE:381:LEU:HD11	1.92	0.50
1:UE:125:SER:OG	1:UE:336:GLY:O	2.28	0.50
1:TE:125:SER:OG	1:TE:336:GLY:O	2.28	0.50
1:LE:171:GLU:HA	1:LE:367:ARG:HA	1.94	0.50
1:CE:129:VAL:HG21	1:CE:134:PHE:HB2	1.93	0.50
1:CE:167:ILE:HG21	1:CE:342:ALA:HB3	1.94	0.50
1:Z9:191:GLU:OE2	1:Z9:351:ARG:NH1	2.45	0.50
1:AA:216:VAL:HG11	4:2B:91:LEU:CD2	2.41	0.50
1:N9:164:ARG:NH1	1:L9:100:TYR:O	2.45	0.50
1:V9:125:SER:OG	1:V9:336:GLY:O	2.25	0.50
1:H9:133:SER:HB2	1:I9:104:PRO:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1B:250:THR:O	5:1B:257:ASN:ND2	2.45	0.50
4:2B:92:VAL:CG1	4:2B:93:ASP:N	2.74	0.50
6:4A:119:LYS:HG3	7:3B:53:THR:OG1	2.10	0.50
8:5M:70:PHE:CE2	8:5N:4:GLN:HG3	2.47	0.50
8:5R:44:LEU:N	8:5V:116:HIS:CB	2.71	0.50
8:5R:134:PHE:CZ	8:5Q:80:ARG:NE	2.79	0.50
8:5E:35:ASN:HB2	8:5E:61:SER:HB3	1.93	0.50
8:5W:134:PHE:CG	8:5V:80:ARG:HD3	2.47	0.50
8:5Q:98:PHE:HZ	8:5P:76:ASP:O	1.94	0.50
5:1G:273:MET:HE2	5:1F:270:TRP:CD1	2.46	0.50
4:2C:89:LEU:HD22	4:2C:101:VAL:HG21	1.93	0.50
5:1D:331:LEU:HD12	5:1D:354:PRO:HB3	1.94	0.50
8:5T:57:ALA:HA	8:5Z:5:ASN:ND2	2.27	0.50
10:8A:904:ARG:HH22	9:7C:148:PRO:HB2	1.76	0.50
10:8A:980:ASP:OD2	9:7C:219:ARG:NH2	2.44	0.50
10:8B:215:LEU:HD13	10:8B:761:ALA:HA	1.92	0.50
1:N4:178:ALA:HB3	1:N4:360:VAL:HB	1.94	0.50
1:T4:104:PRO:HB3	1:S4:133:SER:HB2	1.92	0.50
1:S4:183:LEU:HD22	1:S4:360:VAL:HG21	1.94	0.50
1:V4:125:SER:OG	1:V4:336:GLY:O	2.25	0.50
1:I4:289:LYS:HD3	1:I4:293:GLY:HA2	1.94	0.50
1:A4:89:ALA:HB2	1:CO:193:TRP:HZ3	1.75	0.50
1:E4:150:GLU:HG3	1:G4:91:ASN:CB	2.35	0.50
1:CP:277:MET:HG2	1:CP:330:ILE:HG12	1.94	0.50
1:NO:164:ARG:NH1	1:LO:100:TYR:O	2.45	0.50
1:RO:286:ARG:HH22	1:RO:305:GLU:H	1.59	0.50
1:QO:227:LYS:HA	1:QO:237:SER:HB2	1.93	0.50
1:OO:143:MET:HG2	1:OO:160:PRO:HD3	1.94	0.50
1:FO:167:ILE:HD12	1:FO:370:GLY:HA2	1.92	0.50
1:CO:121:ARG:NH2	1:CO:343:GLU:OE1	2.39	0.50
2:CN:32:ARG:NH2	2:CN:67:ARG:O	2.41	0.50
1:AK:211:ILE:HD12	1:AK:319:ASP:HB2	1.93	0.50
1:NJ:171:GLU:HG2	1:LJ:181:ARG:HH21	1.76	0.50
1:NJ:181:ARG:HH22	1:EJ:170:HIS:HA	1.77	0.50
1:LJ:344:ARG:HE	1:LJ:367:ARG:HD3	1.76	0.50
1:AJ:182:LEU:O	1:AJ:186:SER:CB	2.60	0.50
1:CJ:167:ILE:HG21	1:CJ:342:ALA:HB3	1.94	0.50
2:AI:32:ARG:NH2	2:AI:67:ARG:O	2.41	0.50
1:WE:338:GLY:HA2	1:WE:374:ASP:HB3	1.93	0.50
1:SE:183:LEU:HD22	1:SE:360:VAL:HG21	1.94	0.50
1:N9:89:ALA:HB2	1:F9:193:TRP:HZ3	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P9:352:ASP:OD1	1:P9:352:ASP:N	2.45	0.50
1:W9:338:GLY:HA2	1:W9:374:ASP:HB3	1.93	0.50
1:C9:129:VAL:HG21	1:C9:134:PHE:HB2	1.93	0.50
5:1B:252:HIS:NE2	4:2C:192:VAL:O	2.42	0.50
6:4A:68:VAL:HG22	6:4A:128:VAL:HG22	1.94	0.50
5:1L:250:THR:O	5:1L:257:ASN:ND2	2.44	0.50
8:5X:34:PHE:CD2	8:5W:110:ILE:CG1	2.93	0.50
8:5L:11:ILE:HG22	8:5L:93:VAL:HG22	1.94	0.50
7:3E:85:ARG:NH1	7:3D:94:GLU:OE2	2.45	0.50
8:5K:11:ILE:HG22	8:5K:93:VAL:HG22	1.94	0.50
8:5Q:134:PHE:CE2	8:5P:80:ARG:CZ	2.94	0.50
8:5Q:134:PHE:CD2	8:5P:80:ARG:CZ	2.94	0.50
4:2H:71:ARG:HG3	4:2H:72:TRP:CD1	2.47	0.50
8:5J:11:ILE:HG22	8:5J:93:VAL:HG22	1.94	0.50
4:2E:86:VAL:HB	4:2E:105:TRP:HH2	1.77	0.50
8:5U:60:ARG:NH1	8:5T:86:GLY:HA3	2.27	0.50
11:6A:161:PHE:HD2	11:6A:168:GLY:HA3	1.77	0.50
11:6E:161:PHE:HD2	11:6E:168:GLY:HA3	1.77	0.50
1:R4:183:LEU:HD13	1:R4:360:VAL:HG21	1.92	0.50
1:Q4:242:ALA:HA	1:Q4:382:LYS:O	2.12	0.50
1:V4:382:LYS:HE2	1:V4:384:ALA:HB3	1.93	0.50
1:NO:178:ALA:HB3	1:NO:360:VAL:HB	1.94	0.50
1:WO:275:PHE:HB2	1:WO:314:VAL:HG22	1.92	0.50
1:JO:338:GLY:HA2	1:JO:374:ASP:HB3	1.92	0.50
1:VO:254:ALA:O	1:VO:255:SER:OG	2.15	0.50
1:AO:288:MET:HE3	1:AO:297:TRP:HE1	1.76	0.50
1:GO:95:ALA:HA	1:GO:99:GLY:HA3	1.92	0.50
1:GO:151:THR:HG23	1:GO:151:THR:O	2.12	0.50
1:CO:129:VAL:HG21	1:CO:134:PHE:HB2	1.93	0.50
1:RJ:256:ASP:HA	1:RJ:259:VAL:HG12	1.93	0.50
1:PJ:334:ASP:OD2	1:PJ:337:ASN:ND2	2.45	0.50
1:SJ:183:LEU:HD22	1:SJ:360:VAL:HG21	1.94	0.50
1:JJ:338:GLY:HA2	1:JJ:374:ASP:HB3	1.92	0.50
1:VJ:269:TYR:OH	1:VJ:374:ASP:OD2	2.28	0.50
1:IJ:289:LYS:HD3	1:IJ:293:GLY:HA2	1.94	0.50
1:CJ:159:THR:HG21	1:BE:90:LEU:H	1.77	0.50
1:CF:265:LEU:HD23	1:CF:379:LYS:HG2	1.93	0.50
1:PE:334:ASP:OD2	1:PE:337:ASN:ND2	2.45	0.50
1:VE:382:LYS:HE2	1:VE:384:ALA:HB3	1.93	0.50
1:LE:167:ILE:HD12	1:LE:370:GLY:HA2	1.93	0.50
2:EC:32:ARG:NH2	2:EC:67:ARG:O	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DC:32:ARG:NH2	2:DC:67:ARG:O	2.41	0.50
1:CA:277:MET:HG2	1:CA:330:ILE:HG12	1.94	0.50
1:BA:177:LYS:HA	1:BA:361:LEU:HA	1.93	0.50
1:Q9:242:ALA:HA	1:Q9:382:LYS:O	2.12	0.50
1:D9:334:ASP:OD2	1:D9:337:ASN:ND2	2.45	0.50
7:3A:85:ARG:HD2	7:3F:68:VAL:HG11	1.93	0.50
8:5S:51:ARG:CZ	8:5X:61:SER:HB2	2.41	0.50
8:5M:57:ALA:O	8:5X:117:ASN:O	2.30	0.50
4:2K:86:VAL:HB	4:2K:105:TRP:HH2	1.77	0.50
5:1L:331:LEU:HD12	5:1L:354:PRO:HB3	1.94	0.50
4:2L:81:ALA:HA	4:2L:114:PRO:HG3	1.94	0.50
8:5X:11:ILE:HG22	8:5X:93:VAL:HG22	1.94	0.50
8:5X:64:ILE:HB	8:5X:126:MET:HB2	1.94	0.50
8:5O:34:PHE:HB3	8:5N:83:PHE:CZ	2.47	0.50
9:7A:199:GLY:H	9:7A:215:VAL:HG12	1.76	0.50
10:8A:219:LEU:CD1	10:8A:222:VAL:HB	2.40	0.50
10:8A:848:GLU:O	10:8A:848:GLU:CG	2.60	0.50
10:8A:849:ALA:HB2	9:7C:124:ALA:HB2	1.94	0.50
9:7C:65:LEU:CD1	10:8C:803:ARG:HB2	2.39	0.50
8:52:118:GLY:O	8:53:6:GLY:N	2.44	0.50
1:X4:95:ALA:HA	1:X4:99:GLY:HA3	1.92	0.50
1:A5:289:LYS:NZ	1:A5:289:LYS:CB	2.73	0.50
1:N4:89:ALA:HB2	1:F4:193:TRP:HZ3	1.75	0.50
1:N4:171:GLU:HG2	1:L4:181:ARG:HH21	1.76	0.50
1:V4:308:ARG:NH2	1:V4:311:GLY:O	2.38	0.50
1:I4:242:ALA:HA	1:I4:382:LYS:O	2.12	0.50
2:E2:32:ARG:NH2	2:E2:67:ARG:O	2.41	0.50
1:NO:171:GLU:HG2	1:LO:181:ARG:HH21	1.76	0.50
1:VO:324:ALA:HB3	1:VO:327:ALA:HB2	1.94	0.50
1:UJ:129:VAL:HG11	1:UJ:342:ALA:HB1	1.93	0.50
1:DJ:148:ALA:HB2	1:DJ:154:LEU:HD22	1.93	0.50
1:DJ:350:LEU:O	1:DJ:363:TYR:HB3	2.12	0.50
1:NE:167:ILE:HG21	1:NE:342:ALA:HB3	1.94	0.50
1:ME:125:SER:OG	1:ME:336:GLY:O	2.27	0.50
1:QE:322:ASP:OD1	1:QE:322:ASP:N	2.45	0.50
1:AE:182:LEU:O	1:AE:186:SER:CB	2.60	0.50
1:GE:151:THR:HG23	1:GE:151:THR:O	2.12	0.50
1:CE:262:VAL:HG21	1:CE:310:MET:HG2	1.94	0.50
1:Y9:182:LEU:HB2	1:Q9:92:SER:HB3	1.94	0.50
1:BA:284:ALA:HA	1:BA:287:LYS:HD3	1.94	0.50
1:S9:258:VAL:O	1:S9:262:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I9:182:LEU:O	1:I9:186:SER:OG	2.27	0.50
2:C7:32:ARG:NH2	2:C7:67:ARG:O	2.41	0.50
5:1B:331:LEU:HD12	5:1B:354:PRO:HB3	1.93	0.50
8:5A:131:ALA:HA	8:5B:50:TRP:HB2	1.92	0.50
8:5M:44:LEU:CB	8:5W:116:HIS:HA	2.42	0.50
4:2K:82:PRO:O	4:2K:139:GLY:N	2.41	0.50
4:2K:89:LEU:HD22	4:2K:101:VAL:HG21	1.93	0.50
7:3F:46:GLU:HG2	7:3E:90:LEU:HD22	1.94	0.50
5:1J:250:THR:O	5:1J:257:ASN:ND2	2.45	0.50
8:5W:11:ILE:HG22	8:5W:93:VAL:HG22	1.94	0.50
8:5Q:44:LEU:HD21	8:5V:7:LYS:CA	2.42	0.50
5:1G:252:HIS:NE2	4:2H:192:VAL:O	2.43	0.50
4:2H:81:ALA:HA	4:2H:114:PRO:HG3	1.93	0.50
8:5V:43:SER:HA	8:5Z:116:HIS:HB2	1.94	0.50
6:4C:68:VAL:HG22	6:4C:128:VAL:HG22	1.94	0.50
8:5C:41:VAL:HA	8:5H:28:ARG:NH1	2.27	0.50
10:8A:147:ARG:NH2	10:8A:159:PRO:O	2.45	0.50
8:5Y:64:ILE:HB	8:5Y:126:MET:HB2	1.94	0.50
10:8C:980:ASP:OD2	9:7B:219:ARG:NH2	2.44	0.50
10:8B:147:ARG:NH2	10:8B:159:PRO:O	2.45	0.50
1:C5:256:ASP:HB2	1:X4:287:LYS:HE2	1.93	0.49
1:C5:277:MET:HG2	1:C5:330:ILE:HG12	1.94	0.49
1:A5:121:ARG:NH2	1:A5:343:GLU:OE1	2.43	0.49
1:N4:181:ARG:HH22	1:E4:170:HIS:HA	1.77	0.49
1:M4:141:THR:HG22	1:M4:161:GLN:HG2	1.95	0.49
1:V4:324:ALA:HB3	1:V4:327:ALA:HB2	1.94	0.49
1:L4:171:GLU:HA	1:L4:367:ARG:HA	1.94	0.49
1:I4:134:PHE:HB3	1:I4:167:ILE:HB	1.93	0.49
1:D4:148:ALA:HB2	1:D4:154:LEU:HD22	1.93	0.49
1:G4:139:ASP:OD1	1:G4:139:ASP:N	2.43	0.49
1:C4:262:VAL:HG21	1:C4:310:MET:HG2	1.94	0.49
1:ZO:344:ARG:HE	1:ZO:367:ARG:HD3	1.77	0.49
1:NO:181:ARG:HH22	1:EO:170:HIS:HA	1.77	0.49
1:DO:334:ASP:OD2	1:DO:337:ASN:ND2	2.45	0.49
1:BO:344:ARG:HE	1:BO:367:ARG:HD3	1.77	0.49
1:CK:133:SER:HB2	1:XJ:104:PRO:HB3	1.94	0.49
1:ZJ:191:GLU:OE2	1:ZJ:351:ARG:NH1	2.45	0.49
1:NJ:167:ILE:HG21	1:NJ:342:ALA:HB3	1.94	0.49
1:QJ:242:ALA:HA	1:QJ:382:LYS:O	2.12	0.49
1:JJ:121:ARG:NH1	1:JJ:343:GLU:OE2	2.45	0.49
1:LJ:275:PHE:HB2	1:LJ:314:VAL:HG22	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZE:344:ARG:HE	1:ZE:367:ARG:HD3	1.77	0.49
1:RE:256:ASP:HA	1:RE:259:VAL:HG12	1.93	0.49
1:IE:134:PHE:HB3	1:IE:167:ILE:HB	1.94	0.49
1:IE:242:ALA:HA	1:IE:382:LYS:O	2.12	0.49
1:FE:183:LEU:HD13	1:FE:360:VAL:HG21	1.94	0.49
1:BE:344:ARG:HE	1:BE:367:ARG:HD3	1.77	0.49
1:CE:95:ALA:HA	1:CE:99:GLY:HA3	1.93	0.49
1:M9:162:ILE:HD13	1:F9:100:TYR:HB2	1.92	0.49
1:T9:98:GLY:HA2	1:J9:162:ILE:HD12	1.93	0.49
1:J9:121:ARG:NH1	1:J9:343:GLU:OE2	2.45	0.49
1:B9:136:VAL:HG22	1:B9:165:ILE:HB	1.93	0.49
8:5M:64:ILE:HB	8:5M:126:MET:HB2	1.94	0.49
5:1L:98:ASN:OD1	5:1L:98:ASN:N	2.45	0.49
4:2L:92:VAL:CG1	4:2L:93:ASP:N	2.74	0.49
4:2I:86:VAL:HB	4:2I:105:TRP:HH2	1.77	0.49
6:4D:68:VAL:HG22	6:4D:128:VAL:HG22	1.94	0.49
7:3D:14:GLU:OE1	7:3D:32:LYS:NZ	2.44	0.49
4:2F:71:ARG:HG3	4:2F:72:TRP:CD1	2.47	0.49
4:2F:82:PRO:O	4:2F:139:GLY:N	2.45	0.49
8:5U:55:GLY:HA2	8:5T:106:MET:HE2	1.93	0.49
4:2D:92:VAL:CG1	4:2D:93:ASP:N	2.74	0.49
11:6B:46:HIS:ND1	11:6B:206:VAL:HG12	2.26	0.49
8:5Z:116:HIS:HB3	8:50:28:ARG:HA	1.94	0.49
10:8C:147:ARG:NH2	10:8C:159:PRO:O	2.45	0.49
11:6C:161:PHE:HD2	11:6C:168:GLY:HA3	1.77	0.49
1:S4:258:VAL:O	1:S4:262:VAL:HG23	2.12	0.49
1:K4:167:ILE:HG21	1:K4:342:ALA:HB3	1.94	0.49
1:K4:343:GLU:HB3	1:K4:368:VAL:HG23	1.95	0.49
1:A4:184:ASP:OD2	1:BO:348:ARG:NH2	2.44	0.49
1:D4:113:VAL:HG22	1:C4:235:TRP:HZ3	1.76	0.49
1:RO:256:ASP:HA	1:RO:259:VAL:HG12	1.93	0.49
1:SO:344:ARG:NH1	1:KO:185:ASP:OD1	2.39	0.49
1:LO:275:PHE:HB2	1:LO:314:VAL:HG22	1.93	0.49
1:IO:134:PHE:HB3	1:IO:167:ILE:HB	1.94	0.49
1:DO:113:VAL:HG22	1:CO:235:TRP:HZ3	1.76	0.49
1:BO:136:VAL:HG22	1:BO:165:ILE:HB	1.93	0.49
1:YJ:139:ASP:H	1:ZJ:112:GLY:HA2	1.75	0.49
1:AK:349:VAL:HG12	5:1H:162:GLY:N	2.26	0.49
1:VJ:382:LYS:HE2	1:VJ:384:ALA:HB3	1.93	0.49
1:NE:164:ARG:NH1	1:LE:100:TYR:O	2.45	0.49
1:NE:167:ILE:HD12	1:NE:370:GLY:HA2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OE:143:MET:HG2	1:OE:160:PRO:HD3	1.94	0.49
1:HE:133:SER:HB2	1:IE:104:PRO:HB3	1.93	0.49
2:CD:32:ARG:NH2	2:CD:67:ARG:O	2.41	0.49
1:AA:344:ARG:HA	5:1D:44:ARG:NH2	2.27	0.49
1:N9:179:SER:HA	1:N9:359:HIS:HA	1.94	0.49
5:1B:98:ASN:N	5:1B:98:ASN:OD1	2.45	0.49
8:5S:11:ILE:HG22	8:5S:93:VAL:HG22	1.94	0.49
8:5G:7:LYS:HA	8:5B:44:LEU:CD2	2.41	0.49
6:4F:68:VAL:HG22	6:4F:128:VAL:HG22	1.94	0.49
4:2J:92:VAL:CG1	4:2J:93:ASP:N	2.74	0.49
6:4E:68:VAL:HG22	6:4E:128:VAL:HG22	1.94	0.49
8:5E:28:ARG:HA	8:5D:116:HIS:HB3	1.94	0.49
8:5K:64:ILE:HB	8:5K:126:MET:HB2	1.94	0.49
8:5Q:11:ILE:HG22	8:5Q:93:VAL:HG22	1.94	0.49
8:5Q:64:ILE:HB	8:5Q:126:MET:HB2	1.94	0.49
8:5Q:98:PHE:HE2	8:5P:112:TYR:OH	1.94	0.49
5:1G:250:THR:O	5:1G:257:ASN:ND2	2.43	0.49
8:5V:51:ARG:NH2	8:5U:61:SER:CB	2.71	0.49
8:5U:51:ARG:CZ	8:5T:61:SER:OG	2.59	0.49
5:1D:250:THR:O	5:1D:257:ASN:ND2	2.44	0.49
8:5T:64:ILE:HB	8:5T:126:MET:HB2	1.94	0.49
8:5H:64:ILE:HB	8:5H:126:MET:HB2	1.94	0.49
11:6A:14:PHE:CE1	11:6F:194:SER:HA	2.47	0.49
9:7C:120:VAL:HA	9:7C:129:ALA:HA	1.95	0.49
1:Z4:191:GLU:OE2	1:Z4:351:ARG:NH1	2.45	0.49
1:U4:125:SER:OG	1:U4:336:GLY:O	2.29	0.49
1:F4:183:LEU:HD13	1:F4:360:VAL:HG21	1.94	0.49
1:C4:167:ILE:HG21	1:C4:342:ALA:HB3	1.94	0.49
1:BP:215:GLY:HA2	1:BP:220:THR:HG22	1.95	0.49
1:NO:125:SER:OG	1:NO:336:GLY:O	2.25	0.49
1:QO:185:ASP:N	1:QO:185:ASP:OD1	2.42	0.49
1:VO:382:LYS:HE2	1:VO:384:ALA:HB3	1.93	0.49
1:IO:242:ALA:HA	1:IO:382:LYS:O	2.12	0.49
1:AO:182:LEU:O	1:AO:186:SER:OG	2.29	0.49
1:NJ:164:ARG:NH1	1:LJ:100:TYR:O	2.45	0.49
1:OJ:265:LEU:HD23	1:OJ:379:LYS:HG2	1.95	0.49
1:VJ:308:ARG:NH2	1:VJ:311:GLY:O	2.38	0.49
1:VJ:324:ALA:HB3	1:VJ:327:ALA:HB2	1.94	0.49
1:IJ:242:ALA:HA	1:IJ:382:LYS:O	2.12	0.49
1:FJ:183:LEU:HD13	1:FJ:360:VAL:HG21	1.94	0.49
1:NE:171:GLU:HG2	1:LE:181:ARG:HH21	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NE:181:ARG:HH22	1:EE:170:HIS:HA	1.77	0.49
1:OE:286:ARG:HH12	1:OE:305:GLU:HA	1.77	0.49
1:IE:289:LYS:HD3	1:IE:293:GLY:HA2	1.94	0.49
1:AE:184:ASP:OD2	1:B9:348:ARG:NH2	2.45	0.49
1:FE:126:VAL:HA	1:FE:341:ILE:O	2.12	0.49
1:BE:256:ASP:HA	1:BE:259:VAL:HG12	1.94	0.49
1:CE:144:GLY:O	1:CE:157:THR:OG1	2.29	0.49
1:CA:265:LEU:HD23	1:CA:379:LYS:HG2	1.93	0.49
1:U9:129:VAL:HG11	1:U9:342:ALA:HB1	1.93	0.49
8:5S:44:LEU:HD13	8:53:27:LEU:HD22	1.94	0.49
4:2L:82:PRO:O	4:2L:139:GLY:N	2.45	0.49
8:5X:55:GLY:HA3	8:5W:88:VAL:HG13	1.94	0.49
8:5R:11:ILE:HG22	8:5R:93:VAL:HG22	1.94	0.49
8:5Q:3:ALA:HA	8:5P:71:LYS:HG2	1.94	0.49
6:4C:11:ALA:HA	7:3B:22:ALA:HA	1.94	0.49
8:5C:31:ARG:HG3	8:5B:113:ALA:HB2	1.95	0.49
4:2C:89:LEU:O	4:2C:89:LEU:CD2	2.57	0.49
5:1C:98:ASN:OD1	5:1C:98:ASN:N	2.43	0.49
4:2D:71:ARG:HG3	4:2D:72:TRP:CD1	2.47	0.49
10:8A:844:LEU:HB2	11:6A:30:SER:HB3	1.92	0.49
10:8C:125:GLU:O	10:8C:205:GLN:NE2	2.45	0.49
1:X4:143:MET:HG2	1:X4:160:PRO:HD3	1.95	0.49
1:A5:168:PRO:CG	4:2L:120:GLY:HA2	2.42	0.49
1:B5:357:LYS:N	1:B5:358:PRO:CD	2.71	0.49
1:T4:98:GLY:HA2	1:J4:162:ILE:HD12	1.93	0.49
1:V4:275:PHE:HB2	1:V4:314:VAL:HG22	1.92	0.49
1:A4:288:MET:HE3	1:A4:297:TRP:HE1	1.76	0.49
1:D4:334:ASP:OD2	1:D4:337:ASN:ND2	2.45	0.49
1:XO:143:MET:HG2	1:XO:160:PRO:HD3	1.95	0.49
1:AP:126:VAL:HG21	5:1K:161:GLY:C	1.96	0.49
1:TO:148:ALA:O	1:XJ:181:ARG:NH2	2.45	0.49
1:SO:258:VAL:O	1:SO:262:VAL:HG23	2.12	0.49
1:AO:182:LEU:O	1:AO:186:SER:CB	2.60	0.49
2:AM:19:TYR:OH	2:AM:31:ARG:O	2.23	0.49
1:YJ:182:LEU:HB2	1:QJ:92:SER:HB3	1.94	0.49
1:WJ:281:THR:HA	1:WJ:323:ILE:HD11	1.94	0.49
1:BJ:256:ASP:HA	1:BJ:259:VAL:HG12	1.94	0.49
1:CJ:95:ALA:HA	1:CJ:99:GLY:HA3	1.93	0.49
1:ZE:191:GLU:OE2	1:ZE:351:ARG:NH1	2.45	0.49
1:BF:171:GLU:HA	1:BF:367:ARG:HA	1.92	0.49
1:KE:268:GLU:HB2	1:LE:116:SER:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DE:334:ASP:OD2	1:DE:337:ASN:ND2	2.45	0.49
1:K9:268:GLU:HB2	1:L9:116:SER:HA	1.94	0.49
1:K9:343:GLU:HB3	1:K9:368:VAL:HG23	1.95	0.49
1:D9:350:LEU:O	1:D9:363:TYR:HB3	2.12	0.49
1:G9:376:ALA:HB3	1:B9:113:VAL:HG23	1.94	0.49
1:B9:344:ARG:HE	1:B9:367:ARG:HD3	1.77	0.49
1:C9:95:ALA:HA	1:C9:99:GLY:HA3	1.93	0.49
1:C9:144:GLY:O	1:C9:157:THR:OG1	2.29	0.49
8:5G:64:ILE:HB	8:5G:126:MET:HB2	1.94	0.49
8:5L:64:ILE:HB	8:5L:126:MET:HB2	1.94	0.49
5:1I:24:SER:HB2	5:1H:136:HIS:CD2	2.48	0.49
5:1E:44:ARG:HB3	5:1E:44:ARG:CZ	2.41	0.49
7:3C:14:GLU:OE1	7:3C:32:LYS:NZ	2.44	0.49
8:5U:51:ARG:CZ	8:5T:61:SER:HB2	2.43	0.49
5:1C:44:ARG:CZ	5:1C:44:ARG:HB3	2.40	0.49
4:2D:81:ALA:HA	4:2D:114:PRO:HG3	1.94	0.49
6:4B:68:VAL:HG22	6:4B:128:VAL:HG22	1.94	0.49
9:7A:120:VAL:HA	9:7A:129:ALA:HA	1.95	0.49
11:6B:69:ARG:NH1	11:6C:163:GLU:HG2	2.14	0.49
11:6E:24:THR:OG1	11:6D:72:GLN:HG2	2.12	0.49
11:6E:46:HIS:ND1	11:6E:206:VAL:HG12	2.26	0.49
8:52:114:GLY:CA	8:53:9:LEU:HD21	2.42	0.49
8:50:118:GLY:O	8:51:6:GLY:N	2.44	0.49
1:W4:281:THR:HA	1:W4:323:ILE:HD11	1.94	0.49
1:K4:268:GLU:HB2	1:L4:116:SER:HA	1.94	0.49
1:G4:151:THR:HG23	1:G4:151:THR:O	2.12	0.49
1:AP:211:ILE:HD12	1:AP:319:ASP:HB2	1.93	0.49
1:MO:189:ASP:N	1:MO:189:ASP:OD1	2.44	0.49
1:GO:376:ALA:HB3	1:BO:113:VAL:HG23	1.94	0.49
1:CO:262:VAL:HG21	1:CO:310:MET:HG2	1.94	0.49
1:NJ:121:ARG:NH2	1:NJ:343:GLU:OE1	2.42	0.49
1:MJ:141:THR:HG22	1:MJ:161:GLN:HG2	1.95	0.49
1:PJ:352:ASP:OD1	1:PJ:352:ASP:N	2.45	0.49
1:AJ:288:MET:HE3	1:AJ:297:TRP:HE1	1.76	0.49
1:GJ:376:ALA:HB3	1:BJ:113:VAL:HG23	1.94	0.49
2:BH:19:TYR:OH	2:BH:31:ARG:O	2.23	0.49
1:BF:284:ALA:HA	1:BF:287:LYS:HD3	1.94	0.49
1:M9:157:THR:HG23	1:M9:158:ALA:N	2.26	0.49
1:P9:334:ASP:OD2	1:P9:337:ASN:ND2	2.45	0.49
1:H9:357:LYS:NZ	1:D9:352:ASP:OD2	2.46	0.49
5:1A:71:THR:HB	5:1A:331:LEU:HD23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5G:50:TRP:CE3	8:5L:60:ARG:HG3	2.47	0.49
8:5X:98:PHE:CZ	8:5W:76:ASP:C	2.88	0.49
8:5L:34:PHE:HB3	8:5K:83:PHE:CZ	2.48	0.49
5:1I:71:THR:HB	5:1I:331:LEU:HD23	1.95	0.49
8:5P:11:ILE:HG22	8:5P:93:VAL:HG22	1.94	0.49
8:5P:64:ILE:HB	8:5P:126:MET:HB2	1.94	0.49
8:5O:41:VAL:HA	8:5T:28:ARG:NH1	2.25	0.49
8:5Y:11:ILE:HG22	8:5Y:93:VAL:HG22	1.94	0.49
9:7C:183:LEU:HD22	9:7C:228:ILE:HD11	1.93	0.49
8:53:11:ILE:HG22	8:53:93:VAL:HG22	1.94	0.49
8:50:64:ILE:HB	8:50:126:MET:HB2	1.94	0.49
1:Y4:182:LEU:HB2	1:Q4:92:SER:HB3	1.94	0.49
1:NO:167:ILE:HG21	1:NO:342:ALA:HB3	1.94	0.49
1:KO:275:PHE:HB2	1:KO:314:VAL:HG22	1.95	0.49
1:JO:121:ARG:NH1	1:JO:343:GLU:OE2	2.45	0.49
1:EO:147:TRP:HZ2	1:FO:209:ALA:HB2	1.73	0.49
1:CO:167:ILE:HG21	1:CO:342:ALA:HB3	1.94	0.49
1:BK:215:GLY:HA2	1:BK:220:THR:HG22	1.95	0.49
1:TJ:148:ALA:O	1:XE:181:ARG:NH2	2.46	0.49
1:SJ:258:VAL:O	1:SJ:262:VAL:HG23	2.12	0.49
1:EJ:223:LEU:O	1:EJ:227:LYS:NZ	2.33	0.49
1:FJ:126:VAL:HA	1:FJ:341:ILE:O	2.12	0.49
1:AF:134:PHE:HD2	1:AF:167:ILE:HD13	1.78	0.49
1:OE:134:PHE:HB3	1:OE:167:ILE:HB	1.95	0.49
1:WE:183:LEU:HD22	1:WE:360:VAL:HG21	1.95	0.49
1:TE:98:GLY:HA2	1:JE:162:ILE:HD12	1.93	0.49
1:KE:343:GLU:HB3	1:KE:368:VAL:HG23	1.95	0.49
1:JE:182:LEU:O	1:JE:186:SER:OG	2.28	0.49
1:VE:129:VAL:HG11	1:VE:342:ALA:HB1	1.95	0.49
1:AA:134:PHE:HD2	1:AA:167:ILE:HD13	1.78	0.49
1:I9:242:ALA:HA	1:I9:382:LYS:O	2.12	0.49
1:A9:183:LEU:HD22	1:A9:360:VAL:HG21	1.93	0.49
1:D9:262:VAL:HG21	1:D9:310:MET:HG2	1.94	0.49
1:C9:121:ARG:NH2	1:C9:343:GLU:OE1	2.39	0.49
5:1K:71:THR:HB	5:1K:331:LEU:HD23	1.95	0.49
6:4E:4:ALA:HA	6:4D:86:ALA:HB1	1.93	0.49
8:5W:50:TRP:HA	8:5V:60:ARG:CG	2.43	0.49
8:5D:35:ASN:HB2	8:5D:61:SER:HB3	1.93	0.49
8:5V:53:LEU:CB	8:5U:129:ALA:HA	2.24	0.49
11:6B:22:ARG:O	11:6B:24:THR:HG22	2.13	0.49
11:6A:22:ARG:N	11:6F:186:ASP:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:8C:818:LEU:HB3	10:8C:825:VAL:HG13	1.93	0.49
10:8C:848:GLU:O	10:8C:848:GLU:CG	2.60	0.49
9:7B:184:ARG:O	9:7B:185:LEU:HB3	2.12	0.49
1:B5:284:ALA:HA	1:B5:287:LYS:HD3	1.94	0.49
1:N4:167:ILE:HG21	1:N4:342:ALA:HB3	1.94	0.49
1:S4:256:ASP:OD1	1:S4:257:ALA:N	2.46	0.49
1:K4:275:PHE:HB2	1:K4:314:VAL:HG22	1.95	0.49
1:V4:265:LEU:HD23	1:V4:379:LYS:HG2	1.95	0.49
1:CP:263:TYR:OH	1:XO:305:GLU:OE1	2.25	0.49
1:MO:223:LEU:O	1:MO:227:LYS:NZ	2.35	0.49
1:PO:334:ASP:OD2	1:PO:337:ASN:ND2	2.45	0.49
1:PO:352:ASP:OD1	1:PO:352:ASP:N	2.45	0.49
1:UO:112:GLY:HA2	1:TO:139:ASP:H	1.77	0.49
1:UO:288:MET:HE3	1:UO:297:TRP:HE1	1.78	0.49
1:SO:256:ASP:OD1	1:SO:257:ALA:N	2.46	0.49
1:NJ:178:ALA:HB3	1:NJ:360:VAL:HB	1.94	0.49
1:QJ:186:SER:OG	1:QJ:188:PHE:O	2.31	0.49
1:EJ:130:GLU:O	1:EJ:344:ARG:NH1	2.44	0.49
1:BF:215:GLY:HA2	1:BF:220:THR:HG22	1.95	0.49
1:NE:179:SER:HA	1:NE:359:HIS:HA	1.95	0.49
1:UE:183:LEU:HD22	1:UE:360:VAL:HG21	1.95	0.49
1:VE:269:TYR:OH	1:VE:374:ASP:OD2	2.28	0.49
1:AE:288:MET:HE3	1:AE:297:TRP:HE1	1.76	0.49
1:EE:147:TRP:HZ2	1:FE:209:ALA:HB2	1.73	0.49
1:N9:181:ARG:HH22	1:E9:170:HIS:HA	1.77	0.49
1:P9:149:SER:C	1:P9:151:THR:H	2.19	0.49
1:W9:281:THR:HA	1:W9:323:ILE:HD11	1.94	0.49
1:K9:167:ILE:HG21	1:K9:342:ALA:HB3	1.94	0.49
5:1A:169:MET:HE1	5:1A:176:ILE:H	1.78	0.49
4:2B:82:PRO:O	4:2B:139:GLY:N	2.45	0.49
8:5F:50:TRP:CD1	8:5E:131:ALA:HA	2.48	0.49
8:5R:44:LEU:HD22	8:5W:10:LEU:HD21	1.94	0.49
4:2J:72:TRP:CZ3	4:2J:75:MET:SD	3.06	0.49
8:5W:55:GLY:HA3	8:5V:88:VAL:CG1	2.43	0.49
8:5V:42:THR:CB	8:5Z:116:HIS:CE1	2.94	0.49
8:5P:44:LEU:HG	8:5U:7:LYS:HA	1.89	0.49
8:5U:95:ILE:HG22	8:5T:70:PHE:CE2	2.48	0.49
8:5I:64:ILE:HB	8:5I:126:MET:HB2	1.94	0.49
10:8A:125:GLU:O	10:8A:205:GLN:NE2	2.45	0.49
8:53:64:ILE:HB	8:53:126:MET:HB2	1.94	0.49
8:51:11:ILE:HG22	8:51:93:VAL:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N4:121:ARG:NH2	1:N4:343:GLU:OE1	2.42	0.49
1:W4:338:GLY:HA2	1:W4:374:ASP:HB3	1.93	0.49
1:T4:148:ALA:O	1:XO:181:ARG:NH2	2.45	0.49
1:S4:288:MET:HE3	1:S4:297:TRP:HE1	1.78	0.49
1:K4:121:ARG:NH1	1:K4:343:GLU:OE2	2.46	0.49
1:AP:164:ARG:CB	4:2J:121:ALA:CB	2.89	0.49
1:TO:98:GLY:HA2	1:JO:162:ILE:HD12	1.93	0.49
1:KO:167:ILE:HG21	1:KO:342:ALA:HB3	1.94	0.49
1:EO:211:ILE:HD12	1:EO:319:ASP:HB2	1.95	0.49
1:PJ:149:SER:C	1:PJ:151:THR:H	2.19	0.49
1:PJ:220:THR:HB	1:PJ:371:ASP:HB3	1.95	0.49
1:DJ:113:VAL:HG22	1:CJ:235:TRP:HZ3	1.77	0.49
1:DJ:334:ASP:OD2	1:DJ:337:ASN:ND2	2.45	0.49
1:YE:348:ARG:HE	1:YE:365:SER:HG	1.58	0.49
1:BF:355:SER:O	4:2F:121:ALA:HB3	2.13	0.49
1:KE:111:ARG:NH1	1:JE:340:THR:OG1	2.43	0.49
1:DE:263:TYR:OH	1:EE:305:GLU:OE1	2.27	0.49
1:M9:141:THR:HG22	1:M9:161:GLN:HG2	1.95	0.49
1:Q9:185:ASP:N	1:Q9:185:ASP:OD1	2.42	0.49
1:U9:288:MET:HE3	1:U9:297:TRP:HE1	1.78	0.49
1:K9:121:ARG:NH1	1:K9:343:GLU:OE2	2.46	0.49
1:I9:134:PHE:HB3	1:I9:167:ILE:HB	1.94	0.49
1:A9:182:LEU:O	1:A9:186:SER:CB	2.60	0.49
8:5S:116:HIS:HB2	8:5O:43:SER:C	2.37	0.49
8:5M:11:ILE:HG22	8:5M:93:VAL:HG22	1.94	0.49
5:1I:98:ASN:OD1	5:1I:98:ASN:N	2.43	0.49
8:5J:64:ILE:HB	8:5J:126:MET:HB2	1.94	0.49
5:1E:324:ARG:HH22	5:1D:360:PRO:HB2	1.76	0.49
4:2D:82:PRO:O	4:2D:139:GLY:N	2.45	0.49
10:8C:219:LEU:CD1	10:8C:222:VAL:HB	2.40	0.49
8:52:11:ILE:HG22	8:52:93:VAL:HG22	1.94	0.49
1:B5:215:GLY:HA2	1:B5:220:THR:HG22	1.95	0.49
1:N4:179:SER:HA	1:N4:359:HIS:HA	1.94	0.49
1:M4:189:ASP:OD1	1:M4:189:ASP:N	2.44	0.49
1:P4:334:ASP:OD2	1:P4:337:ASN:ND2	2.45	0.49
1:T4:129:VAL:HG11	1:T4:342:ALA:HB1	1.95	0.49
1:J4:121:ARG:NH1	1:J4:343:GLU:OE2	2.45	0.49
1:V4:129:VAL:HG11	1:V4:342:ALA:HB1	1.95	0.49
1:H4:348:ARG:O	1:H4:364:ALA:HA	2.13	0.49
2:A1:19:TYR:OH	2:A1:31:ARG:O	2.23	0.49
1:WO:183:LEU:HD22	1:WO:360:VAL:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VO:129:VAL:HG11	1:VO:342:ALA:HB1	1.95	0.49
1:AO:184:ASP:OD2	1:BJ:348:ARG:NH2	2.45	0.49
1:FO:183:LEU:HD13	1:FO:360:VAL:HG21	1.94	0.49
2:CN:19:TYR:OH	2:CN:31:ARG:O	2.23	0.49
1:OJ:286:ARG:HH12	1:OJ:305:GLU:HA	1.77	0.49
1:KJ:343:GLU:HB3	1:KJ:368:VAL:HG23	1.95	0.49
1:VJ:129:VAL:HG11	1:VJ:342:ALA:HB1	1.95	0.49
1:LJ:242:ALA:HA	1:LJ:382:LYS:O	2.13	0.49
1:HJ:348:ARG:O	1:HJ:364:ALA:HA	2.13	0.49
1:IJ:182:LEU:O	1:IJ:186:SER:OG	2.27	0.49
1:CJ:121:ARG:NH2	1:CJ:343:GLU:OE1	2.39	0.49
1:VE:324:ALA:HB3	1:VE:327:ALA:HB2	1.94	0.49
1:HE:289:LYS:HD3	1:HE:293:GLY:HA2	1.95	0.49
1:EE:211:ILE:HD12	1:EE:319:ASP:HB2	1.95	0.49
1:N9:171:GLU:HG2	1:L9:181:ARG:HH21	1.76	0.49
1:Q9:227:LYS:HA	1:Q9:237:SER:HB2	1.93	0.49
1:U9:112:GLY:HA2	1:T9:139:ASP:H	1.77	0.49
1:U9:183:LEU:HD22	1:U9:360:VAL:HG21	1.95	0.49
1:F9:183:LEU:HD13	1:F9:360:VAL:HG21	1.94	0.49
4:2B:81:ALA:HA	4:2B:114:PRO:HG3	1.94	0.49
8:5A:27:LEU:HD11	8:5A:30:THR:HB	1.95	0.49
8:5Q:3:ALA:N	8:5P:71:LYS:HG2	2.27	0.49
4:2H:72:TRP:CZ3	4:2H:75:MET:SD	3.06	0.49
8:5C:35:ASN:HB2	8:5C:61:SER:HB3	1.93	0.49
8:5N:78:ARG:NH1	8:5N:81:GLN:OE1	2.46	0.49
8:5Z:64:ILE:HB	8:5Z:126:MET:HB2	1.94	0.49
9:7C:22:TRP:HB3	9:7C:98:VAL:HA	1.95	0.49
11:6F:45:ARG:HB2	11:6F:207:GLU:HG2	1.93	0.49
9:7B:86:LEU:HD11	9:7B:120:VAL:HG21	1.94	0.49
10:8B:818:LEU:HB3	10:8B:825:VAL:HG13	1.93	0.49
8:50:11:ILE:HG22	8:50:93:VAL:HG22	1.94	0.49
1:X4:139:ASP:N	1:X4:139:ASP:OD1	2.43	0.49
1:A5:134:PHE:HD2	1:A5:167:ILE:HD13	1.78	0.49
1:Q4:134:PHE:HB3	1:Q4:167:ILE:HB	1.95	0.49
1:P4:352:ASP:N	1:P4:352:ASP:OD1	2.45	0.49
1:W4:183:LEU:HD22	1:W4:360:VAL:HG21	1.95	0.49
1:D4:262:VAL:HG21	1:D4:310:MET:HG2	1.94	0.49
2:C2:32:ARG:NH2	2:C2:67:ARG:O	2.41	0.49
1:CP:133:SER:HB2	1:XO:104:PRO:HB3	1.94	0.49
1:KO:343:GLU:HB3	1:KO:368:VAL:HG23	1.95	0.49
1:LO:182:LEU:O	1:LO:186:SER:OG	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XJ:143:MET:HG2	1:XJ:160:PRO:HD3	1.95	0.49
1:ZJ:344:ARG:HE	1:ZJ:367:ARG:HD3	1.77	0.49
1:OJ:134:PHE:HB3	1:OJ:167:ILE:HB	1.95	0.49
1:KJ:275:PHE:HB2	1:KJ:314:VAL:HG22	1.95	0.49
1:CF:133:SER:HB2	1:XE:104:PRO:HB3	1.94	0.49
1:SE:256:ASP:OD1	1:SE:257:ALA:N	2.46	0.49
1:DE:262:VAL:HG21	1:DE:310:MET:HG2	1.94	0.49
1:N9:294:ARG:HD3	1:O9:294:ARG:HH21	1.77	0.49
1:T9:129:VAL:HG11	1:T9:342:ALA:HB1	1.95	0.49
1:S9:288:MET:HE3	1:S9:297:TRP:HE1	1.78	0.49
1:D9:104:PRO:HB3	1:C9:133:SER:HB2	1.95	0.49
1:B9:256:ASP:HA	1:B9:259:VAL:HG12	1.94	0.49
5:1K:169:MET:HE1	5:1K:176:ILE:H	1.78	0.49
6:4E:117:VAL:HG21	7:3E:50:GLU:OE1	2.13	0.49
4:2G:86:VAL:HG23	4:2G:107:LEU:HD13	1.95	0.49
6:4D:117:VAL:HG21	7:3D:50:GLU:OE1	2.13	0.49
8:5V:11:ILE:HG22	8:5V:93:VAL:HG22	1.94	0.49
8:5P:134:PHE:CE2	8:5O:80:ARG:NE	2.80	0.49
8:5I:11:ILE:HG22	8:5I:93:VAL:HG22	1.94	0.49
8:5O:78:ARG:NH1	8:5O:81:GLN:OE1	2.46	0.49
4:2C:86:VAL:HB	4:2C:105:TRP:HH2	1.77	0.49
8:5B:27:LEU:HD11	8:5B:30:THR:HB	1.95	0.49
9:7A:184:ARG:O	9:7A:185:LEU:HB3	2.12	0.49
11:6A:24:THR:CG2	11:6F:72:GLN:HG2	2.42	0.49
11:6E:24:THR:HG21	11:6D:72:GLN:HE21	1.78	0.49
1:Q4:171:GLU:OE2	1:P4:148:ALA:HB3	2.13	0.48
1:O4:143:MET:HG2	1:O4:160:PRO:HD3	1.94	0.48
1:AP:134:PHE:HD2	1:AP:167:ILE:HD13	1.78	0.48
1:MO:157:THR:HG23	1:MO:158:ALA:N	2.26	0.48
1:OO:134:PHE:HB3	1:OO:167:ILE:HB	1.95	0.48
1:PO:149:SER:C	1:PO:151:THR:H	2.19	0.48
1:TO:171:GLU:HG2	1:RJ:181:ARG:HH21	1.78	0.48
1:CK:265:LEU:HD23	1:CK:379:LYS:HG2	1.93	0.48
1:YJ:171:GLU:HG2	1:WJ:181:ARG:HH21	1.79	0.48
1:ZJ:259:VAL:CG2	1:AK:286:ARG:HD2	2.43	0.48
1:AK:134:PHE:HD2	1:AK:167:ILE:HD13	1.78	0.48
1:AK:277:MET:O	1:AK:317:ALA:N	2.46	0.48
1:NJ:179:SER:HA	1:NJ:359:HIS:HA	1.94	0.48
1:WJ:183:LEU:HD22	1:WJ:360:VAL:HG21	1.95	0.48
1:UJ:183:LEU:HD22	1:UJ:360:VAL:HG21	1.95	0.48
1:DJ:262:VAL:HG21	1:DJ:310:MET:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YE:182:LEU:HB2	1:QE:92:SER:HB3	1.94	0.48
1:ZE:259:VAL:CG2	1:AF:286:ARG:HD2	2.43	0.48
1:ME:157:THR:HG23	1:ME:158:ALA:N	2.26	0.48
1:TE:148:ALA:O	1:X9:181:ARG:NH2	2.46	0.48
1:SE:344:ARG:NH1	1:KE:185:ASP:OD1	2.39	0.48
1:KE:167:ILE:HG21	1:KE:342:ALA:HB3	1.94	0.48
1:JE:172:LEU:HD12	1:IE:147:TRP:H	1.78	0.48
1:HE:182:LEU:O	1:HE:186:SER:OG	2.30	0.48
1:O9:286:ARG:HH12	1:O9:305:GLU:HA	1.77	0.48
1:W9:183:LEU:HD22	1:W9:360:VAL:HG21	1.95	0.48
1:S9:256:ASP:OD1	1:S9:257:ALA:N	2.46	0.48
1:L9:171:GLU:HA	1:L9:367:ARG:HA	1.94	0.48
1:L9:242:ALA:HA	1:L9:382:LYS:O	2.13	0.48
1:E9:211:ILE:HD12	1:E9:319:ASP:HB2	1.95	0.48
1:F9:126:VAL:HA	1:F9:341:ILE:O	2.12	0.48
1:C9:167:ILE:HG21	1:C9:342:ALA:HB3	1.94	0.48
4:2A:86:VAL:HB	4:2A:105:TRP:HH2	1.77	0.48
4:2B:72:TRP:CZ3	4:2B:75:MET:SD	3.06	0.48
8:5S:84:PHE:CG	8:5U:50:TRP:HZ2	2.25	0.48
8:5M:78:ARG:NH1	8:5M:81:GLN:OE1	2.46	0.48
4:2L:67:LEU:C	4:2L:67:LEU:HD12	2.38	0.48
8:5F:27:LEU:HD11	8:5F:30:THR:HB	1.95	0.48
8:5R:64:ILE:HB	8:5R:126:MET:HB2	1.94	0.48
5:1J:385:ARG:HE	5:1J:392:PRO:HA	1.79	0.48
6:4D:57:ASP:OD2	8:5C:71:LYS:NZ	2.29	0.48
8:5J:66:GLY:O	8:5J:124:LEU:N	2.46	0.48
4:2F:72:TRP:CZ3	4:2F:75:MET:SD	3.06	0.48
4:2F:81:ALA:HA	4:2F:114:PRO:HG3	1.94	0.48
8:5U:64:ILE:HB	8:5U:126:MET:HB2	1.94	0.48
6:4B:117:VAL:HG21	7:3B:50:GLU:OE1	2.13	0.48
8:5T:54:LEU:CG	8:5Z:3:ALA:HB1	2.43	0.48
8:5H:78:ARG:NH1	8:5H:81:GLN:OE1	2.46	0.48
10:8C:849:ALA:HB2	9:7B:124:ALA:HB2	1.96	0.48
11:6D:65:PHE:HA	11:6D:69:ARG:HH21	1.78	0.48
11:6C:206:VAL:O	11:6C:207:GLU:HG3	2.13	0.48
1:U4:288:MET:HE3	1:U4:297:TRP:HE1	1.78	0.48
1:H4:357:LYS:NZ	1:D4:352:ASP:OD2	2.46	0.48
1:I4:223:LEU:O	1:I4:227:LYS:NZ	2.31	0.48
1:E4:193:TRP:HE1	1:E4:197:ARG:HH11	1.62	0.48
1:C4:159:THR:HG21	1:BO:90:LEU:H	1.77	0.48
1:JO:289:LYS:HD3	1:JO:293:GLY:HA2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LO:171:GLU:HA	1:LO:367:ARG:HA	1.94	0.48
1:LO:322:ASP:OD1	1:LO:322:ASP:N	2.46	0.48
1:HO:289:LYS:HD3	1:HO:293:GLY:HA2	1.95	0.48
1:FO:223:LEU:O	1:FO:227:LYS:NZ	2.33	0.48
1:AK:121:ARG:NH2	1:AK:343:GLU:OE1	2.43	0.48
1:HJ:289:LYS:HD3	1:HJ:293:GLY:HA2	1.95	0.48
1:QE:134:PHE:HB3	1:QE:167:ILE:HB	1.95	0.48
1:WE:281:THR:HA	1:WE:323:ILE:HD11	1.94	0.48
1:UE:112:GLY:HA2	1:TE:139:ASP:H	1.77	0.48
1:SE:258:VAL:O	1:SE:262:VAL:HG23	2.12	0.48
1:JE:121:ARG:NH1	1:JE:343:GLU:OE2	2.45	0.48
1:IE:182:LEU:O	1:IE:186:SER:OG	2.27	0.48
1:DE:104:PRO:HB3	1:CE:133:SER:HB2	1.95	0.48
1:EE:193:TRP:HE1	1:EE:197:ARG:HH11	1.62	0.48
1:N9:167:ILE:HG21	1:N9:342:ALA:HB3	1.94	0.48
1:R9:125:SER:OG	1:R9:336:GLY:O	2.27	0.48
1:O9:143:MET:HG2	1:O9:160:PRO:HD3	1.94	0.48
1:D9:302:ALA:O	1:C9:311:GLY:N	2.46	0.48
4:2L:72:TRP:CZ3	4:2L:75:MET:SD	3.06	0.48
4:2I:89:LEU:O	4:2I:89:LEU:CD2	2.56	0.48
4:2J:67:LEU:C	4:2J:67:LEU:HD12	2.38	0.48
8:5W:64:ILE:HB	8:5W:126:MET:HB2	1.94	0.48
5:1G:71:THR:HB	5:1G:331:LEU:HD23	1.95	0.48
5:1H:385:ARG:HE	5:1H:392:PRO:HA	1.78	0.48
4:2H:67:LEU:C	4:2H:67:LEU:HD12	2.39	0.48
7:3D:40:THR:OG1	7:3C:97:ARG:NH2	2.39	0.48
8:5D:12:LYS:HZ3	8:5D:94:ILE:HG13	1.78	0.48
8:5V:9:LEU:HD21	8:5U:113:ALA:O	2.13	0.48
5:1E:123:GLU:HB2	5:1E:138:LEU:HD11	1.96	0.48
6:4C:117:VAL:HG21	7:3C:50:GLU:OE1	2.13	0.48
8:5U:78:ARG:NH1	8:5U:81:GLN:OE1	2.46	0.48
8:5O:11:ILE:HG22	8:5O:93:VAL:HG22	1.94	0.48
8:5T:66:GLY:O	8:5T:124:LEU:N	2.47	0.48
11:6B:5:GLU:OE2	11:6C:164:PRO:HA	2.13	0.48
11:6B:65:PHE:HA	11:6B:69:ARG:HH21	1.78	0.48
11:6B:194:SER:HA	11:6C:14:PHE:CE1	2.48	0.48
8:5Y:78:ARG:NH1	8:5Y:81:GLN:OE1	2.46	0.48
8:5Z:78:ARG:NH1	8:5Z:81:GLN:OE1	2.46	0.48
9:7C:86:LEU:HD11	9:7C:120:VAL:HG21	1.94	0.48
1:X4:189:ASP:OD1	1:X4:189:ASP:N	2.47	0.48
1:B5:177:LYS:CB	4:2A:121:ALA:HB3	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U4:112:GLY:HA2	1:T4:139:ASP:H	1.77	0.48
1:J4:129:VAL:HG11	1:J4:342:ALA:HB1	1.95	0.48
1:B4:348:ARG:NH2	1:A9:184:ASP:OD2	2.46	0.48
1:C4:121:ARG:NH2	1:C4:343:GLU:OE1	2.39	0.48
1:MO:141:THR:HG22	1:MO:161:GLN:HG2	1.95	0.48
1:OO:265:LEU:HD23	1:OO:379:LYS:HG2	1.95	0.48
1:HO:348:ARG:O	1:HO:364:ALA:HA	2.13	0.48
1:OJ:143:MET:HG2	1:OJ:160:PRO:HD3	1.94	0.48
1:TJ:171:GLU:HG2	1:RE:181:ARG:HH21	1.78	0.48
1:KJ:268:GLU:HB2	1:LJ:116:SER:HA	1.94	0.48
1:JJ:172:LEU:HD12	1:IJ:147:TRP:H	1.78	0.48
1:JJ:277:MET:O	1:JJ:317:ALA:N	2.41	0.48
1:FJ:344:ARG:HE	1:FJ:367:ARG:HD3	1.78	0.48
1:QE:186:SER:OG	1:QE:188:PHE:O	2.31	0.48
1:VE:182:LEU:O	1:VE:186:SER:OG	2.31	0.48
1:EE:189:ASP:OD1	1:EE:189:ASP:N	2.47	0.48
1:X9:143:MET:HG2	1:X9:160:PRO:HD3	1.95	0.48
1:N9:178:ALA:HB3	1:N9:360:VAL:HB	1.94	0.48
8:5S:97:ASP:H	8:5X:70:PHE:HE2	1.61	0.48
4:2K:91:LEU:CD1	4:2K:132:VAL:HG23	2.36	0.48
4:2K:190:VAL:HG13	5:1J:268:LEU:HD11	1.96	0.48
5:1L:194:MET:HG3	5:1L:201:LEU:HD11	1.95	0.48
5:1L:385:ARG:HE	5:1L:392:PRO:HA	1.79	0.48
6:4F:35:VAL:HG21	7:3F:52:VAL:HG22	1.95	0.48
5:1I:194:MET:HG3	5:1I:201:LEU:HD11	1.95	0.48
8:5Q:50:TRP:HA	8:5P:60:ARG:CG	2.43	0.48
5:1G:299:VAL:HG12	5:1G:322:PHE:HE1	1.79	0.48
8:5D:31:ARG:HG3	8:5C:113:ALA:HB2	1.95	0.48
8:5D:50:TRP:NE1	8:5C:132:LEU:H	2.10	0.48
8:5V:32:ILE:O	8:5U:111:ASP:HB2	2.13	0.48
4:2E:86:VAL:HG23	4:2E:107:LEU:HD13	1.95	0.48
8:5I:41:VAL:HA	8:5N:28:ARG:NH1	2.27	0.48
5:1C:169:MET:HE1	5:1C:176:ILE:H	1.78	0.48
5:1D:98:ASN:N	5:1D:98:ASN:OD1	2.45	0.48
9:7A:22:TRP:HB3	9:7A:98:VAL:HA	1.95	0.48
9:7A:134:LEU:HD21	10:8A:824:LEU:HB2	1.91	0.48
11:6B:72:GLN:HG2	11:6C:24:THR:CG2	2.43	0.48
11:6E:22:ARG:N	11:6D:186:ASP:O	2.46	0.48
8:52:64:ILE:HB	8:52:126:MET:HB2	1.94	0.48
8:52:78:ARG:NH1	8:52:81:GLN:OE1	2.46	0.48
8:50:70:PHE:CE1	8:51:98:PHE:CZ	3.00	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:51:64:ILE:HB	8:51:126:MET:HB2	1.94	0.48
1:L4:182:LEU:O	1:L4:186:SER:OG	2.29	0.48
1:B4:344:ARG:HE	1:B4:367:ARG:HD3	1.77	0.48
1:CP:228:VAL:O	1:CP:239:GLY:HA2	2.14	0.48
1:SO:256:ASP:CA	1:SO:259:VAL:HG12	2.44	0.48
1:HO:357:LYS:NZ	1:DO:352:ASP:OD2	2.46	0.48
1:DO:262:VAL:HG21	1:DO:310:MET:HG2	1.94	0.48
1:FO:126:VAL:HA	1:FO:341:ILE:O	2.12	0.48
1:GO:171:GLU:HA	1:GO:367:ARG:HA	1.96	0.48
2:AL:32:ARG:NH2	2:AL:67:ARG:O	2.41	0.48
1:WJ:121:ARG:NH1	1:WJ:343:GLU:OE2	2.47	0.48
1:UJ:112:GLY:HA2	1:TJ:139:ASP:H	1.77	0.48
1:KJ:121:ARG:NH1	1:KJ:343:GLU:OE2	2.46	0.48
1:HJ:357:LYS:NZ	1:DJ:352:ASP:OD2	2.46	0.48
1:CF:228:VAL:O	1:CF:239:GLY:HA2	2.14	0.48
1:QE:171:GLU:OE2	1:PE:148:ALA:HB3	2.14	0.48
1:PE:189:ASP:OD1	1:PE:189:ASP:N	2.47	0.48
1:KE:121:ARG:NH1	1:KE:343:GLU:OE2	2.46	0.48
1:VE:265:LEU:HD23	1:VE:379:LYS:HG2	1.95	0.48
1:DE:302:ALA:O	1:CE:311:GLY:N	2.46	0.48
1:EE:121:ARG:NH2	1:EE:343:GLU:OE1	2.44	0.48
2:CD:4:PHE:HB2	2:BD:67:ARG:NH2	2.29	0.48
1:AA:277:MET:O	1:AA:317:ALA:N	2.46	0.48
1:K9:275:PHE:HB2	1:K9:314:VAL:HG22	1.95	0.48
1:V9:324:ALA:HB3	1:V9:327:ALA:HB2	1.94	0.48
1:L9:129:VAL:HG11	1:L9:342:ALA:HB1	1.95	0.48
1:E9:193:TRP:HE1	1:E9:197:ARG:HH11	1.62	0.48
1:F9:344:ARG:HE	1:F9:367:ARG:HD3	1.78	0.48
4:2A:126:ILE:HG13	4:2A:126:ILE:O	2.14	0.48
4:2B:68:THR:O	4:2B:126:ILE:HG21	2.14	0.48
8:5G:11:ILE:HG22	8:5G:93:VAL:HG22	1.94	0.48
8:5G:66:GLY:O	8:5G:124:LEU:N	2.46	0.48
8:5M:98:PHE:HZ	8:5R:76:ASP:O	1.96	0.48
5:1K:26:THR:HG21	5:1J:138:LEU:HD22	1.95	0.48
8:5F:44:LEU:HD11	8:5K:7:LYS:O	2.14	0.48
8:5X:95:ILE:HG22	8:5W:70:PHE:CZ	2.49	0.48
8:5R:42:THR:O	8:5V:116:HIS:CE1	2.66	0.48
5:1I:317:GLU:O	5:1I:321:ALA:N	2.44	0.48
5:1J:98:ASN:N	5:1J:98:ASN:OD1	2.45	0.48
7:3E:53:THR:OG1	6:4D:119:LYS:HG3	2.12	0.48
5:1G:123:GLU:HB2	5:1G:138:LEU:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5V:41:VAL:HG13	8:50:28:ARG:HH11	1.79	0.48
4:2F:67:LEU:C	4:2F:67:LEU:HD12	2.39	0.48
4:2D:72:TRP:CZ3	4:2D:75:MET:SD	3.06	0.48
8:5H:66:GLY:O	8:5H:124:LEU:N	2.46	0.48
8:5Z:11:ILE:HG22	8:5Z:93:VAL:HG22	1.94	0.48
10:8C:872:ALA:HB2	10:8C:901:ALA:HB1	1.96	0.48
9:7B:120:VAL:HA	9:7B:129:ALA:HA	1.95	0.48
10:8B:903:THR:OG1	10:8B:904:ARG:N	2.46	0.48
11:6D:22:ARG:O	11:6D:24:THR:HG22	2.13	0.48
8:50:78:ARG:NH1	8:50:81:GLN:OE1	2.46	0.48
8:51:78:ARG:NH1	8:51:81:GLN:OE1	2.46	0.48
1:C5:133:SER:HB2	1:X4:104:PRO:HB3	1.94	0.48
1:X4:181:ARG:NH2	1:T9:148:ALA:O	2.47	0.48
1:M4:157:THR:HG23	1:M4:158:ALA:N	2.26	0.48
1:C4:129:VAL:HG21	1:C4:134:PHE:HB2	1.93	0.48
1:ZO:167:ILE:HG21	1:ZO:342:ALA:HB3	1.95	0.48
1:QO:171:GLU:OE2	1:PO:148:ALA:HB3	2.13	0.48
1:WO:121:ARG:NH1	1:WO:343:GLU:OE2	2.47	0.48
1:SO:288:MET:HE3	1:SO:297:TRP:HE1	1.78	0.48
1:KO:268:GLU:HB2	1:LO:116:SER:HA	1.94	0.48
1:FO:263:TYR:OH	1:GO:305:GLU:OE1	2.26	0.48
1:TJ:129:VAL:HG11	1:TJ:342:ALA:HB1	1.95	0.48
1:DJ:104:PRO:HB3	1:CJ:133:SER:HB2	1.95	0.48
1:EJ:193:TRP:HE1	1:EJ:197:ARG:HH11	1.62	0.48
1:FJ:223:LEU:O	1:FJ:227:LYS:NZ	2.33	0.48
1:NE:178:ALA:HB3	1:NE:360:VAL:HB	1.94	0.48
1:QE:338:GLY:O	1:QE:373:SER:N	2.42	0.48
1:WE:121:ARG:NH1	1:WE:343:GLU:OE2	2.47	0.48
1:TE:277:MET:O	1:TE:317:ALA:N	2.46	0.48
1:JE:112:GLY:HA2	1:IE:139:ASP:H	1.78	0.48
1:IE:171:GLU:HG2	1:M9:181:ARG:NH2	2.23	0.48
1:GE:139:ASP:N	1:GE:139:ASP:OD1	2.43	0.48
1:GE:376:ALA:HB3	1:BE:113:VAL:HG23	1.94	0.48
2:EC:19:TYR:OH	2:EC:31:ARG:O	2.23	0.48
2:CC:4:PHE:HB2	2:BC:67:ARG:NH2	2.29	0.48
1:Y9:149:SER:HB3	1:Y9:152:ALA:HB2	1.95	0.48
1:Y9:171:GLU:HG2	1:W9:181:ARG:HH21	1.78	0.48
1:BA:215:GLY:HA2	1:BA:220:THR:HG22	1.95	0.48
1:Q9:171:GLU:OE2	1:P9:148:ALA:HB3	2.13	0.48
1:S9:256:ASP:CA	1:S9:259:VAL:HG12	2.44	0.48
1:J9:129:VAL:HG11	1:J9:342:ALA:HB1	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H9:348:ARG:O	1:H9:364:ALA:HA	2.13	0.48
2:C8:4:PHE:HB2	2:B8:67:ARG:NH2	2.29	0.48
2:E7:19:TYR:OH	2:E7:31:ARG:O	2.23	0.48
2:C7:4:PHE:HB2	2:B7:67:ARG:NH2	2.29	0.48
5:1I:299:VAL:HG12	5:1I:322:PHE:HE1	1.79	0.48
8:5E:44:LEU:HD21	8:5J:7:LYS:CA	2.34	0.48
8:5Q:44:LEU:CG	8:5V:7:LYS:CA	2.83	0.48
8:5Q:44:LEU:CA	8:5U:116:HIS:HB2	2.43	0.48
5:1G:98:ASN:N	5:1G:98:ASN:OD1	2.43	0.48
5:1G:169:MET:HE1	5:1G:176:ILE:H	1.78	0.48
5:1H:220:ARG:HE	5:1H:275:PHE:HB2	1.78	0.48
7:3D:112:ALA:HB2	7:3C:76:PRO:HB2	1.96	0.48
8:5V:66:GLY:O	8:5V:124:LEU:N	2.46	0.48
8:5P:97:ASP:HB3	8:5O:72:ASP:HB2	1.94	0.48
4:2E:153:GLN:HE21	4:2D:45:ALA:CB	2.26	0.48
5:1E:71:THR:HB	5:1E:331:LEU:HD23	1.95	0.48
5:1E:194:MET:HG3	5:1E:201:LEU:HD11	1.95	0.48
5:1E:273:MET:HE2	5:1D:270:TRP:CD1	2.48	0.48
5:1E:299:VAL:HG12	5:1E:322:PHE:HE1	1.79	0.48
8:5U:11:ILE:HG22	8:5U:93:VAL:HG22	1.94	0.48
5:1C:123:GLU:HB2	5:1C:138:LEU:HD11	1.95	0.48
8:5H:11:ILE:HG22	8:5H:93:VAL:HG22	1.94	0.48
8:5N:11:ILE:HG22	8:5N:93:VAL:HG22	1.94	0.48
11:6A:206:VAL:O	11:6A:207:GLU:HG3	2.13	0.48
8:52:70:PHE:CE1	8:53:98:PHE:CZ	3.00	0.48
8:53:78:ARG:NH1	8:53:81:GLN:OE1	2.46	0.48
1:Z4:259:VAL:CG2	1:A5:286:ARG:HD2	2.43	0.48
1:R4:181:ARG:HH21	1:T9:171:GLU:HG2	1.78	0.48
1:D4:302:ALA:O	1:C4:311:GLY:N	2.46	0.48
1:E4:130:GLU:O	1:E4:344:ARG:NH1	2.44	0.48
1:B4:256:ASP:HA	1:B4:259:VAL:HG12	1.94	0.48
2:E3:19:TYR:OH	2:E3:31:ARG:O	2.23	0.48
1:XO:189:ASP:N	1:XO:189:ASP:OD1	2.47	0.48
1:YO:171:GLU:HG2	1:WO:181:ARG:HH21	1.78	0.48
1:OO:286:ARG:HH12	1:OO:305:GLU:HA	1.77	0.48
1:WO:281:THR:HA	1:WO:323:ILE:HD11	1.94	0.48
1:TO:129:VAL:HG11	1:TO:342:ALA:HB1	1.95	0.48
1:EO:193:TRP:HE1	1:EO:197:ARG:HH11	1.62	0.48
1:ZJ:167:ILE:HG21	1:ZJ:342:ALA:HB3	1.95	0.48
1:AK:349:VAL:HG12	5:1H:161:GLY:C	2.38	0.48
1:BK:284:ALA:HA	1:BK:287:LYS:HD3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QJ:167:ILE:HD12	1:QJ:370:GLY:HA2	1.96	0.48
1:QJ:171:GLU:OE2	1:PJ:148:ALA:HB3	2.14	0.48
1:WJ:132:THR:HG21	1:SJ:102:VAL:HB	1.96	0.48
1:SE:121:ARG:NH1	1:SE:343:GLU:OE2	2.47	0.48
1:LE:242:ALA:HA	1:LE:382:LYS:O	2.13	0.48
1:O9:134:PHE:HB3	1:O9:167:ILE:HB	1.95	0.48
1:V9:129:VAL:HG11	1:V9:342:ALA:HB1	1.95	0.48
1:H9:92:SER:HB2	1:E9:182:LEU:HB2	1.96	0.48
1:E9:189:ASP:OD1	1:E9:189:ASP:N	2.47	0.48
1:G9:171:GLU:HA	1:G9:367:ARG:HA	1.96	0.48
4:2B:70:TRP:CZ3	4:2B:123:LEU:HD13	2.49	0.48
4:2K:192:VAL:O	5:1J:252:HIS:NE2	2.42	0.48
5:1K:194:MET:HG3	5:1K:201:LEU:HD11	1.95	0.48
5:1K:324:ARG:NH1	5:1K:365:GLU:OE1	2.47	0.48
6:4F:117:VAL:HG21	7:3F:50:GLU:OE1	2.13	0.48
5:1I:26:THR:HG23	5:1H:167:PHE:HZ	1.78	0.48
8:5Q:42:THR:O	8:5U:116:HIS:CE1	2.66	0.48
4:2H:101:VAL:HG23	4:2H:101:VAL:O	2.13	0.48
8:5P:78:ARG:NH1	8:5P:81:GLN:OE1	2.46	0.48
5:1E:252:HIS:NE2	4:2F:192:VAL:O	2.43	0.48
5:1E:324:ARG:NH1	5:1E:365:GLU:OE1	2.47	0.48
5:1F:220:ARG:HE	5:1F:275:PHE:HB2	1.79	0.48
6:4C:57:ASP:OD2	8:5B:25:ALA:O	2.31	0.48
8:5C:44:LEU:HG	8:5H:10:LEU:HD21	1.96	0.48
8:5U:53:LEU:CB	8:5T:129:ALA:HA	2.26	0.48
8:5U:66:GLY:O	8:5U:124:LEU:N	2.46	0.48
8:5I:66:GLY:O	8:5I:124:LEU:N	2.46	0.48
8:5O:64:ILE:HB	8:5O:126:MET:HB2	1.95	0.48
4:2C:86:VAL:HG23	4:2C:107:LEU:HD13	1.95	0.48
5:1C:71:THR:HB	5:1C:331:LEU:HD23	1.95	0.48
4:2D:70:TRP:CZ3	4:2D:123:LEU:HD13	2.49	0.48
10:8A:872:ALA:HB2	10:8A:901:ALA:HB1	1.96	0.48
11:6B:72:GLN:HG2	11:6C:24:THR:OG1	2.13	0.48
8:5Y:29:ALA:HA	8:53:115:SER:HA	1.96	0.48
11:6E:206:VAL:O	11:6E:207:GLU:HG3	2.13	0.48
10:8B:125:GLU:O	10:8B:205:GLN:NE2	2.45	0.48
1:P4:189:ASP:OD1	1:P4:189:ASP:N	2.47	0.48
1:W4:121:ARG:NH1	1:W4:343:GLU:OE2	2.47	0.48
1:J4:172:LEU:HD12	1:I4:147:TRP:H	1.78	0.48
1:D4:104:PRO:HB3	1:C4:133:SER:HB2	1.95	0.48
1:PO:220:THR:HB	1:PO:371:ASP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SO:121:ARG:NH1	1:SO:343:GLU:OE2	2.47	0.48
1:KO:121:ARG:NH1	1:KO:343:GLU:OE2	2.46	0.48
1:JO:172:LEU:HD12	1:IO:147:TRP:H	1.78	0.48
1:VO:265:LEU:HD23	1:VO:379:LYS:HG2	1.95	0.48
1:VO:269:TYR:OH	1:VO:374:ASP:OD2	2.28	0.48
1:GO:121:ARG:NH2	1:GO:343:GLU:OE1	2.40	0.48
1:UJ:288:MET:HE3	1:UJ:297:TRP:HE1	1.78	0.48
1:SJ:256:ASP:OD1	1:SJ:257:ALA:N	2.46	0.48
1:JJ:112:GLY:HA2	1:IJ:139:ASP:H	1.78	0.48
1:DJ:287:LYS:HE3	1:CJ:256:ASP:HB2	1.95	0.48
1:BF:111:ARG:HH22	5:1G:38:ARG:NH1	2.12	0.48
1:ME:141:THR:HG22	1:ME:161:GLN:HG2	1.95	0.48
1:ME:215:GLY:HA2	1:ME:220:THR:HG22	1.96	0.48
1:OE:265:LEU:HD23	1:OE:379:LYS:HG2	1.94	0.48
1:HE:340:THR:OG1	1:IE:111:ARG:NH1	2.39	0.48
1:FE:344:ARG:HE	1:FE:367:ARG:HD3	1.78	0.48
1:BE:201:LYS:HZ3	1:BE:205:ALA:HB2	1.78	0.48
1:O9:265:LEU:HD23	1:O9:379:LYS:HG2	1.94	0.48
1:V9:265:LEU:HD23	1:V9:379:LYS:HG2	1.95	0.48
1:L9:121:ARG:NH1	1:L9:343:GLU:OE2	2.47	0.48
1:E9:95:ALA:HA	1:E9:99:GLY:HA3	1.96	0.48
1:E9:121:ARG:NH2	1:E9:343:GLU:OE1	2.44	0.48
5:1A:324:ARG:NH1	5:1A:365:GLU:OE1	2.47	0.48
8:5S:78:ARG:NH1	8:5S:81:GLN:OE1	2.46	0.48
8:5M:70:PHE:CD2	8:5N:4:GLN:HG3	2.49	0.48
5:1L:220:ARG:HE	5:1L:275:PHE:HB2	1.78	0.48
6:4F:50:GLU:HA	6:4F:67:PHE:HA	1.95	0.48
4:2J:68:THR:O	4:2J:126:ILE:HG21	2.14	0.48
6:4E:50:GLU:HA	6:4E:67:PHE:HA	1.95	0.48
8:5D:12:LYS:NZ	8:5D:94:ILE:HG13	2.29	0.48
8:5V:78:ARG:NH1	8:5V:81:GLN:OE1	2.46	0.48
5:1F:194:MET:HG3	5:1F:201:LEU:HD11	1.95	0.48
6:4C:50:GLU:HA	6:4C:67:PHE:HA	1.95	0.48
5:1C:299:VAL:HG12	5:1C:322:PHE:HE1	1.79	0.48
8:5T:11:ILE:HG22	8:5T:93:VAL:HG22	1.94	0.48
8:5T:78:ARG:NH1	8:5T:81:GLN:OE1	2.46	0.48
8:5N:64:ILE:HB	8:5N:126:MET:HB2	1.94	0.48
9:7A:86:LEU:HD11	9:7A:120:VAL:HG21	1.94	0.48
8:5Z:66:GLY:O	8:5Z:124:LEU:N	2.47	0.48
11:6E:184:ASP:N	11:6E:204:PRO:O	2.37	0.48
8:52:66:GLY:O	8:52:124:LEU:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M4:162:ILE:HD12	1:F4:100:TYR:HD2	1.79	0.48
1:O4:265:LEU:HD23	1:O4:379:LYS:HG2	1.95	0.48
1:O4:286:ARG:HH12	1:O4:305:GLU:HA	1.77	0.48
1:P4:220:THR:HB	1:P4:371:ASP:HB3	1.95	0.48
1:W4:132:THR:HG21	1:S4:102:VAL:HB	1.96	0.48
1:U4:171:GLU:HA	1:U4:367:ARG:HA	1.96	0.48
1:T4:171:GLU:HG2	1:RO:181:ARG:HH21	1.79	0.48
1:L4:121:ARG:NH1	1:L4:343:GLU:OE2	2.47	0.48
1:D4:287:LYS:HE3	1:C4:256:ASP:HB2	1.95	0.48
1:E4:95:ALA:HA	1:E4:99:GLY:HA3	1.96	0.48
1:B4:262:VAL:HG21	1:B4:310:MET:HG2	1.96	0.48
1:B4:281:THR:HA	1:B4:323:ILE:HD11	1.96	0.48
1:NO:179:SER:HA	1:NO:359:HIS:HA	1.94	0.48
1:DO:90:LEU:HD13	1:DO:91:ASN:HB2	1.96	0.48
1:DO:302:ALA:O	1:CO:311:GLY:N	2.46	0.48
1:BO:256:ASP:HA	1:BO:259:VAL:HG12	1.94	0.48
1:AK:265:LEU:HD23	1:AK:379:LYS:HG2	1.95	0.48
1:LJ:121:ARG:NH1	1:LJ:343:GLU:OE2	2.47	0.48
1:EJ:211:ILE:HD12	1:EJ:319:ASP:HB2	1.95	0.48
2:DI:19:TYR:OH	2:DI:31:ARG:O	2.23	0.48
1:ME:162:ILE:HD12	1:FE:100:TYR:HD2	1.79	0.48
1:HE:340:THR:HG1	1:IE:111:ARG:HH12	1.58	0.48
1:HE:348:ARG:O	1:HE:364:ALA:HA	2.13	0.48
5:1B:194:MET:HG3	5:1B:201:LEU:HD11	1.95	0.48
6:4A:50:GLU:HA	6:4A:67:PHE:HA	1.95	0.48
8:5S:64:ILE:HB	8:5S:126:MET:HB2	1.94	0.48
8:5S:66:GLY:O	8:5S:124:LEU:N	2.46	0.48
8:5G:78:ARG:NH1	8:5G:81:GLN:OE1	2.46	0.48
8:5G:83:PHE:CZ	8:5H:34:PHE:HB3	2.48	0.48
8:5R:44:LEU:CD2	8:5W:7:LYS:O	2.36	0.48
5:1I:123:GLU:HB2	5:1I:138:LEU:HD11	1.95	0.48
4:2J:70:TRP:CZ3	4:2J:123:LEU:HD13	2.49	0.48
8:5E:27:LEU:HD11	8:5E:30:THR:HB	1.95	0.48
8:5V:35:ASN:C	8:5U:108:THR:O	2.57	0.48
8:5V:44:LEU:CA	8:5Z:116:HIS:HA	2.44	0.48
8:5O:3:ALA:HA	8:5N:71:LYS:HG2	1.96	0.48
10:8A:17:PHE:HB3	10:8C:13:ILE:HD11	1.96	0.48
11:6B:72:GLN:HE21	11:6C:24:THR:HG21	1.79	0.48
11:6A:184:ASP:N	11:6A:204:PRO:O	2.37	0.48
11:6E:24:THR:CG2	11:6D:72:GLN:HG2	2.44	0.48
8:50:66:GLY:O	8:50:124:LEU:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U4:183:LEU:HD22	1:U4:360:VAL:HG21	1.95	0.48
1:T4:277:MET:O	1:T4:317:ALA:N	2.46	0.48
1:L4:322:ASP:OD1	1:L4:322:ASP:N	2.46	0.48
1:A4:182:LEU:O	1:A4:186:SER:OG	2.29	0.48
1:F4:344:ARG:HE	1:F4:367:ARG:HD3	1.78	0.48
1:ZO:259:VAL:CG2	1:AP:286:ARG:HD2	2.43	0.48
1:QO:167:ILE:HD12	1:QO:370:GLY:HA2	1.96	0.48
1:PO:298:ALA:HB1	1:PO:303:ALA:HB1	1.96	0.48
1:LO:242:ALA:HA	1:LO:382:LYS:O	2.13	0.48
1:BO:262:VAL:HG21	1:BO:310:MET:HG2	1.96	0.48
1:CK:228:VAL:O	1:CK:239:GLY:HA2	2.14	0.48
1:ZJ:95:ALA:HA	1:ZJ:99:GLY:HA3	1.96	0.48
1:UJ:171:GLU:HA	1:UJ:367:ARG:HA	1.96	0.48
1:EJ:338:GLY:O	1:EJ:373:SER:N	2.41	0.48
1:XE:139:ASP:N	1:XE:139:ASP:OD1	2.43	0.48
1:XE:143:MET:HG2	1:XE:160:PRO:HD3	1.95	0.48
1:PE:220:THR:HB	1:PE:371:ASP:HB3	1.95	0.48
1:UE:289:LYS:HA	1:UE:295:PHE:HA	1.96	0.48
1:SE:288:MET:HE3	1:SE:297:TRP:HE1	1.78	0.48
1:JE:289:LYS:HD3	1:JE:293:GLY:HA2	1.95	0.48
1:VE:134:PHE:HB3	1:VE:167:ILE:HB	1.96	0.48
1:BE:281:THR:HA	1:BE:323:ILE:HD11	1.96	0.48
1:M9:162:ILE:HD12	1:F9:100:TYR:HD2	1.79	0.48
1:W9:132:THR:HG21	1:S9:102:VAL:HB	1.96	0.48
1:K9:111:ARG:NH1	1:J9:340:THR:OG1	2.43	0.48
1:J9:172:LEU:HD12	1:I9:147:TRP:H	1.78	0.48
1:H9:289:LYS:HD3	1:H9:293:GLY:HA2	1.95	0.48
1:H9:340:THR:OG1	1:I9:111:ARG:NH1	2.39	0.48
4:2B:67:LEU:C	4:2B:67:LEU:HD12	2.38	0.48
6:4A:117:VAL:HG21	7:3A:50:GLU:OE1	2.13	0.48
8:5S:34:PHE:O	8:5X:109:SER:CB	2.59	0.48
8:5S:55:GLY:HA2	8:5X:106:MET:HE2	1.96	0.48
8:5M:3:ALA:CA	8:5R:71:LYS:HG2	2.44	0.48
8:5M:50:TRP:CD2	8:5R:60:ARG:HG3	2.47	0.48
8:5X:44:LEU:HA	8:51:116:HIS:CB	2.28	0.48
8:5X:78:ARG:NH1	8:5X:81:GLN:OE1	2.46	0.48
5:1G:194:MET:HG3	5:1G:201:LEU:HD11	1.96	0.48
6:4D:35:VAL:HG21	7:3D:52:VAL:HG22	1.96	0.48
8:5V:64:ILE:HB	8:5V:126:MET:HB2	1.94	0.48
8:5C:33:SER:HA	8:5B:111:ASP:HA	1.96	0.48
5:1C:324:ARG:NH1	5:1C:365:GLU:OE1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1D:220:ARG:HE	5:1D:275:PHE:HB2	1.79	0.48
8:5Y:118:GLY:O	8:5Z:6:GLY:HA3	2.14	0.48
11:6F:22:ARG:O	11:6F:24:THR:HG22	2.13	0.48
1:Y4:171:GLU:HG2	1:W4:181:ARG:HH21	1.78	0.48
1:Z4:167:ILE:HG21	1:Z4:342:ALA:HB3	1.95	0.48
1:Q4:167:ILE:HD12	1:Q4:370:GLY:HA2	1.96	0.48
1:Q4:344:ARG:NH1	1:U9:185:ASP:OD1	2.47	0.48
1:P4:149:SER:C	1:P4:151:THR:H	2.19	0.48
1:V4:134:PHE:HB3	1:V4:167:ILE:HB	1.96	0.48
2:C3:4:PHE:HB2	2:B3:67:ARG:NH2	2.29	0.48
1:ZO:100:TYR:O	1:VO:164:ARG:NH1	2.47	0.48
1:QO:186:SER:OG	1:QO:188:PHE:O	2.31	0.48
1:UO:183:LEU:HD22	1:UO:360:VAL:HG21	1.95	0.48
2:EM:19:TYR:OH	2:EM:31:ARG:O	2.23	0.48
1:AK:128:ASN:N	5:1I:41:TRP:CD1	2.81	0.48
1:QJ:134:PHE:HB3	1:QJ:167:ILE:HB	1.95	0.48
1:PJ:298:ALA:HB1	1:PJ:303:ALA:HB1	1.95	0.48
1:ZE:100:TYR:O	1:VE:164:ARG:NH1	2.47	0.48
1:UE:288:MET:HE3	1:UE:297:TRP:HE1	1.78	0.48
1:Z9:259:VAL:CG2	1:AA:286:ARG:HD2	2.43	0.48
1:U9:289:LYS:HA	1:U9:295:PHE:HA	1.96	0.48
1:T9:223:LEU:O	1:T9:227:LYS:NZ	2.31	0.48
1:D9:90:LEU:HD13	1:D9:91:ASN:HB2	1.96	0.48
1:D9:263:TYR:OH	1:E9:305:GLU:OE1	2.26	0.48
5:1B:360:PRO:HB2	5:1C:324:ARG:HH22	1.77	0.48
8:5A:12:LYS:NZ	8:5A:94:ILE:HG13	2.29	0.48
5:1K:288:ALA:HB2	5:1J:283:HIS:HE1	1.79	0.48
5:1K:299:VAL:HG12	5:1K:322:PHE:HE1	1.79	0.48
4:2L:101:VAL:O	4:2L:101:VAL:HG23	2.13	0.48
7:3F:90:LEU:HB2	7:3F:105:PHE:HB2	1.96	0.48
8:5F:12:LYS:NZ	8:5F:94:ILE:HG13	2.29	0.48
8:5F:44:LEU:C	8:5F:44:LEU:CD1	2.87	0.48
8:5F:95:ILE:CB	8:5F:98:PHE:HB2	2.41	0.48
8:5X:6:GLY:CA	8:5W:119:GLU:C	2.87	0.48
8:5R:78:ARG:NH1	8:5R:81:GLN:OE1	2.46	0.48
7:3E:90:LEU:HB2	7:3E:105:PHE:HB2	1.96	0.48
8:5W:6:GLY:CA	8:5V:119:GLU:C	2.86	0.48
5:1G:324:ARG:NH1	5:1G:365:GLU:OE1	2.47	0.48
7:3D:90:LEU:HB2	7:3D:105:PHE:HB2	1.96	0.48
8:5D:44:LEU:C	8:5D:44:LEU:CD1	2.87	0.48
5:1F:385:ARG:HE	5:1F:392:PRO:HA	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2F:70:TRP:CZ3	4:2F:123:LEU:HD13	2.49	0.48
8:5Z:111:ASP:OD2	8:50:31:ARG:NH1	2.47	0.48
1:O4:134:PHE:HB3	1:O4:167:ILE:HB	1.95	0.47
1:T4:189:ASP:HB3	1:T4:192:THR:HG22	1.96	0.47
1:F4:126:VAL:HA	1:F4:341:ILE:O	2.12	0.47
1:BP:284:ALA:HA	1:BP:287:LYS:HD3	1.94	0.47
1:QO:134:PHE:HB3	1:QO:167:ILE:HB	1.95	0.47
1:PO:290:ASP:OD1	1:PO:290:ASP:N	2.43	0.47
1:SJ:288:MET:HE3	1:SJ:297:TRP:HE1	1.78	0.47
1:HJ:182:LEU:O	1:HJ:186:SER:OG	2.30	0.47
1:IJ:185:ASP:OD1	1:FE:344:ARG:NH1	2.47	0.47
1:EJ:189:ASP:OD1	1:EJ:189:ASP:N	2.47	0.47
2:CH:4:PHE:HB2	2:BH:67:ARG:NH2	2.29	0.47
1:TE:171:GLU:HG2	1:R9:181:ARG:HH21	1.79	0.47
1:CA:133:SER:HB2	1:X9:104:PRO:HB3	1.94	0.47
1:T9:265:LEU:HD23	1:T9:379:LYS:HG2	1.96	0.47
1:I9:182:LEU:O	1:I9:186:SER:HB3	2.14	0.47
5:1A:299:VAL:HG12	5:1A:322:PHE:HE1	1.79	0.47
5:1A:317:GLU:O	5:1A:321:ALA:N	2.44	0.47
5:1B:385:ARG:HE	5:1B:392:PRO:HA	1.79	0.47
6:4A:35:VAL:HG21	7:3A:52:VAL:HG22	1.96	0.47
7:3A:90:LEU:HB2	7:3A:105:PHE:HB2	1.96	0.47
8:5A:116:HIS:N	8:5B:28:ARG:O	2.47	0.47
8:5M:33:SER:HA	8:5R:111:ASP:HB3	1.96	0.47
4:2L:68:THR:O	4:2L:126:ILE:HG21	2.14	0.47
4:2L:70:TRP:CZ3	4:2L:123:LEU:HD13	2.49	0.47
8:5L:78:ARG:NH1	8:5L:81:GLN:OE1	2.46	0.47
4:2I:191:ARG:NH1	5:1H:265:GLU:OE2	2.46	0.47
5:1I:169:MET:HE1	5:1I:176:ILE:H	1.78	0.47
8:5E:12:LYS:NZ	8:5E:94:ILE:HG13	2.29	0.47
8:5K:78:ARG:NH1	8:5K:81:GLN:OE1	2.46	0.47
5:1H:98:ASN:ND2	5:1H:135:LEU:O	2.47	0.47
8:5J:78:ARG:NH1	8:5J:81:GLN:OE1	2.46	0.47
5:1F:98:ASN:ND2	5:1F:135:LEU:O	2.47	0.47
7:3C:90:LEU:HB2	7:3C:105:PHE:HB2	1.96	0.47
8:5C:44:LEU:C	8:5C:44:LEU:CD1	2.87	0.47
5:1D:98:ASN:ND2	5:1D:135:LEU:O	2.47	0.47
9:7C:15:VAL:HG12	11:6D:73:LEU:HD12	1.96	0.47
11:6F:194:SER:HB2	8:53:57:ALA:O	2.15	0.47
11:6E:164:PRO:HA	11:6D:5:GLU:OE2	2.13	0.47
8:52:28:ARG:HA	8:51:116:HIS:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:52:29:ALA:HA	8:51:115:SER:HA	1.96	0.47
1:U4:185:ASP:OD1	1:QO:344:ARG:NH1	2.47	0.47
1:S4:121:ARG:NH1	1:S4:343:GLU:OE2	2.47	0.47
1:I4:171:GLU:HG2	1:MO:181:ARG:NH2	2.24	0.47
1:I4:182:LEU:O	1:I4:186:SER:HB3	2.14	0.47
1:D4:90:LEU:HD13	1:D4:91:ASN:HB2	1.96	0.47
1:E4:189:ASP:OD1	1:E4:189:ASP:N	2.47	0.47
1:E4:211:ILE:HD12	1:E4:319:ASP:HB2	1.95	0.47
1:F4:344:ARG:NH1	1:I9:185:ASP:OD1	2.47	0.47
1:MO:125:SER:OG	1:MO:336:GLY:O	2.27	0.47
1:TO:189:ASP:HB3	1:TO:192:THR:HG22	1.96	0.47
1:EO:121:ARG:NH2	1:EO:343:GLU:OE1	2.44	0.47
1:FO:344:ARG:HE	1:FO:367:ARG:HD3	1.78	0.47
1:MJ:215:GLY:HA2	1:MJ:220:THR:HG22	1.96	0.47
1:SJ:121:ARG:NH1	1:SJ:343:GLU:OE2	2.47	0.47
1:AF:210:PHE:HZ	1:AF:368:VAL:HG21	1.79	0.47
1:WE:132:THR:HG21	1:SE:102:VAL:HB	1.96	0.47
1:TE:129:VAL:HG11	1:TE:342:ALA:HB1	1.95	0.47
1:LE:129:VAL:HG11	1:LE:342:ALA:HB1	1.95	0.47
2:AB:15:ALA:HB3	2:A6:66:VAL:HA	1.95	0.47
1:Z9:100:TYR:O	1:V9:164:ARG:NH1	2.47	0.47
1:W9:204:ARG:NH2	1:V9:142:ASP:OD2	2.48	0.47
1:S9:121:ARG:NH1	1:S9:343:GLU:OE2	2.47	0.47
1:V9:134:PHE:HB3	1:V9:167:ILE:HB	1.96	0.47
1:D9:287:LYS:HE3	1:C9:256:ASP:HB2	1.95	0.47
5:1A:123:GLU:HB2	5:1A:138:LEU:HD11	1.96	0.47
4:2I:86:VAL:CG2	4:2I:107:LEU:CD1	2.86	0.47
8:5Q:4:GLN:HG3	8:5P:70:PHE:CD2	2.50	0.47
4:2H:70:TRP:CZ3	4:2H:123:LEU:HD13	2.49	0.47
5:1C:194:MET:HG3	5:1C:201:LEU:HD11	1.95	0.47
10:8A:204:ALA:H	10:8A:764:GLN:HG2	1.79	0.47
11:6A:163:GLU:HG2	11:6F:69:ARG:NH1	2.16	0.47
8:5Z:115:SER:HA	8:50:29:ALA:HA	1.94	0.47
10:8C:831:GLY:O	10:8C:952:ARG:NH1	2.48	0.47
8:50:118:GLY:O	8:51:6:GLY:HA3	2.14	0.47
1:Q4:186:SER:OG	1:Q4:188:PHE:O	2.31	0.47
1:O4:89:ALA:HB2	1:L4:193:TRP:HZ3	1.80	0.47
1:G4:171:GLU:HA	1:G4:367:ARG:HA	1.96	0.47
1:AP:121:ARG:NH2	1:AP:343:GLU:OE1	2.43	0.47
1:NO:324:ALA:HB3	1:NO:327:ALA:HB2	1.96	0.47
1:WO:182:LEU:O	1:WO:186:SER:CB	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VO:134:PHE:HB3	1:VO:167:ILE:HB	1.96	0.47
1:IO:185:ASP:OD1	1:FJ:344:ARG:NH1	2.46	0.47
1:ZJ:100:TYR:O	1:VJ:164:ARG:NH1	2.47	0.47
1:LJ:129:VAL:HG11	1:LJ:342:ALA:HB1	1.95	0.47
1:DJ:302:ALA:O	1:CJ:311:GLY:N	2.46	0.47
1:TE:265:LEU:HD23	1:TE:379:LYS:HG2	1.97	0.47
1:KE:223:LEU:O	1:KE:227:LYS:NZ	2.32	0.47
1:KE:275:PHE:HB2	1:KE:314:VAL:HG22	1.95	0.47
1:IE:185:ASP:OD1	1:F9:344:ARG:NH1	2.47	0.47
1:BE:262:VAL:HG21	1:BE:310:MET:HG2	1.96	0.47
1:CA:228:VAL:O	1:CA:239:GLY:HA2	2.14	0.47
1:P9:298:ALA:HB1	1:P9:303:ALA:HB1	1.96	0.47
1:J9:112:GLY:HA2	1:I9:139:ASP:H	1.78	0.47
1:L9:252:VAL:HA	2:A7:9:VAL:HB	1.96	0.47
4:2A:56:LYS:HD3	4:2A:81:ALA:HB3	1.96	0.47
4:2B:101:VAL:HG23	4:2B:101:VAL:O	2.13	0.47
7:3A:46:GLU:HG2	7:3F:90:LEU:HD22	1.96	0.47
8:5A:41:VAL:HA	8:5L:28:ARG:HH12	1.79	0.47
5:1K:123:GLU:HB2	5:1K:138:LEU:HD11	1.95	0.47
8:5X:116:HIS:NE2	8:5N:42:THR:HG23	2.24	0.47
8:5X:116:HIS:ND1	8:5N:42:THR:O	2.46	0.47
8:5W:78:ARG:NH1	8:5W:81:GLN:OE1	2.46	0.47
8:5Q:66:GLY:O	8:5Q:124:LEU:N	2.46	0.47
8:5D:4:GLN:CG	8:5D:96:PRO:HB2	2.45	0.47
6:4C:50:GLU:CD	6:4B:82:LYS:HZ2	2.20	0.47
8:5O:34:PHE:O	8:5N:109:SER:HB2	2.14	0.47
5:1C:98:ASN:HD22	5:1C:136:HIS:CE1	2.33	0.47
4:2D:56:LYS:HD3	4:2D:81:ALA:HB3	1.97	0.47
6:4B:12:ALA:HB1	6:4B:97:LEU:HD13	1.96	0.47
7:3B:90:LEU:HB2	7:3B:105:PHE:HB2	1.96	0.47
8:5B:4:GLN:CG	8:5B:96:PRO:HB2	2.45	0.47
9:7A:65:LEU:CD1	10:8A:803:ARG:HB2	2.38	0.47
8:5Y:97:ASP:H	8:53:70:PHE:HE2	1.62	0.47
10:8B:214:ASP:O	10:8B:215:LEU:C	2.58	0.47
8:51:66:GLY:O	8:51:124:LEU:N	2.47	0.47
1:Z4:100:TYR:O	1:V4:164:ARG:NH1	2.47	0.47
1:W4:182:LEU:O	1:W4:186:SER:CB	2.63	0.47
1:H4:149:SER:HB2	1:H4:152:ALA:HB2	1.96	0.47
1:YO:149:SER:HB3	1:YO:152:ALA:HB2	1.96	0.47
1:JO:112:GLY:HA2	1:IO:139:ASP:H	1.78	0.47
1:JO:129:VAL:HG11	1:JO:342:ALA:HB1	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JO:181:ARG:HH21	1:RJ:171:GLU:HG2	1.79	0.47
2:AL:15:ALA:HB3	2:AG:66:VAL:HA	1.97	0.47
2:CM:19:TYR:OH	2:CM:31:ARG:O	2.23	0.47
1:UJ:185:ASP:OD1	1:QE:344:ARG:NH1	2.47	0.47
1:KJ:167:ILE:HG21	1:KJ:342:ALA:HB3	1.94	0.47
1:YE:171:GLU:HG2	1:WE:181:ARG:HH21	1.78	0.47
1:ZE:167:ILE:HG21	1:ZE:342:ALA:HB3	1.95	0.47
1:OE:220:THR:HG22	1:OE:225:LYS:HD3	1.96	0.47
1:PE:298:ALA:HB1	1:PE:303:ALA:HB1	1.96	0.47
1:EE:95:ALA:HA	1:EE:99:GLY:HA3	1.96	0.47
1:GE:171:GLU:HA	1:GE:367:ARG:HA	1.96	0.47
1:N9:324:ALA:HB3	1:N9:327:ALA:HB2	1.96	0.47
1:Q9:167:ILE:HD12	1:Q9:370:GLY:HA2	1.96	0.47
1:I9:275:PHE:HB2	1:I9:314:VAL:HG22	1.97	0.47
5:1A:194:MET:HG3	5:1A:201:LEU:HD11	1.95	0.47
5:1B:98:ASN:ND2	5:1B:135:LEU:O	2.47	0.47
5:1B:220:ARG:HE	5:1B:275:PHE:HB2	1.78	0.47
8:5X:60:ARG:NH1	8:5W:86:GLY:HA3	2.28	0.47
4:2J:71:ARG:C	4:2J:72:TRP:CD1	2.93	0.47
8:5E:50:TRP:CH2	8:5C:84:PHE:CD1	3.02	0.47
4:2G:56:LYS:HD3	4:2G:81:ALA:HB3	1.96	0.47
4:2H:57:ALA:HB3	4:2H:139:GLY:HA2	1.97	0.47
6:4D:50:GLU:HA	6:4D:67:PHE:HA	1.95	0.47
4:2E:56:LYS:HD3	4:2E:81:ALA:HB3	1.96	0.47
5:1E:169:MET:HE1	5:1E:176:ILE:H	1.78	0.47
4:2F:56:LYS:HD3	4:2F:81:ALA:HB3	1.97	0.47
6:4C:110:LEU:HB3	6:4C:111:ARG:NH1	2.30	0.47
8:5C:27:LEU:HD11	8:5C:30:THR:HB	1.95	0.47
8:5B:27:LEU:O	8:5B:27:LEU:CD1	2.61	0.47
9:7A:124:ALA:HB2	10:8B:849:ALA:HB2	1.96	0.47
10:8A:930:PRO:HG3	11:6A:29:LEU:HD12	1.96	0.47
11:6B:186:ASP:O	11:6C:22:ARG:N	2.48	0.47
8:52:118:GLY:O	8:53:6:GLY:HA3	2.14	0.47
11:6D:194:SER:HB2	8:51:57:ALA:O	2.15	0.47
1:C5:228:VAL:O	1:C5:239:GLY:HA2	2.14	0.47
1:A5:265:LEU:HD23	1:A5:379:LYS:HG2	1.95	0.47
1:O4:227:LYS:HB2	1:O4:227:LYS:HE2	1.77	0.47
1:I4:275:PHE:HB2	1:I4:314:VAL:HG22	1.97	0.47
1:ZO:95:ALA:HA	1:ZO:99:GLY:HA3	1.96	0.47
1:MO:162:ILE:HD12	1:FO:100:TYR:HD2	1.79	0.47
1:HO:291:ALA:O	2:AM:10:SER:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IO:182:LEU:O	1:IO:186:SER:HB3	2.14	0.47
2:CN:4:PHE:HB2	2:BN:67:ARG:NH2	2.29	0.47
1:YJ:149:SER:HB3	1:YJ:152:ALA:HB2	1.96	0.47
1:TJ:265:LEU:HD23	1:TJ:379:LYS:HG2	1.96	0.47
1:JJ:129:VAL:HG11	1:JJ:342:ALA:HB1	1.95	0.47
1:VJ:134:PHE:HB3	1:VJ:167:ILE:HB	1.96	0.47
1:GJ:171:GLU:HA	1:GJ:367:ARG:HA	1.96	0.47
2:CI:4:PHE:HB2	2:BI:67:ARG:NH2	2.29	0.47
1:ZE:227:LYS:HG2	1:ZE:380:LEU:HD22	1.97	0.47
1:KE:215:GLY:HA2	1:KE:220:THR:HG22	1.96	0.47
1:IE:182:LEU:O	1:IE:186:SER:HB3	2.14	0.47
1:M9:215:GLY:HA2	1:M9:220:THR:HG22	1.96	0.47
1:Q9:134:PHE:HB3	1:Q9:167:ILE:HB	1.95	0.47
1:O9:277:MET:O	1:O9:317:ALA:N	2.45	0.47
1:H9:149:SER:HB2	1:H9:152:ALA:HB2	1.96	0.47
5:1A:98:ASN:HD22	5:1A:136:HIS:CE1	2.33	0.47
4:2B:56:LYS:HD3	4:2B:81:ALA:HB3	1.97	0.47
8:5A:4:GLN:CG	8:5A:96:PRO:HB2	2.45	0.47
8:5F:41:VAL:HG22	8:5K:119:GLU:HG2	1.96	0.47
8:5X:51:ARG:NH2	8:5W:61:SER:CB	2.71	0.47
4:2I:126:ILE:HG13	4:2I:126:ILE:O	2.14	0.47
5:1I:324:ARG:NH1	5:1I:365:GLU:OE1	2.47	0.47
5:1J:220:ARG:HE	5:1J:275:PHE:HB2	1.78	0.47
4:2J:56:LYS:HD3	4:2J:81:ALA:HB3	1.97	0.47
4:2J:57:ALA:HB3	4:2J:139:GLY:HA2	1.97	0.47
6:4E:35:VAL:HG21	7:3E:52:VAL:HG22	1.95	0.47
8:5Q:78:ARG:NH1	8:5Q:81:GLN:OE1	2.46	0.47
8:5V:98:PHE:HZ	8:5U:76:ASP:C	2.22	0.47
5:1E:98:ASN:HD22	5:1E:136:HIS:CE1	2.33	0.47
8:5C:12:LYS:NZ	8:5C:94:ILE:HG13	2.29	0.47
8:5I:78:ARG:NH1	8:5I:81:GLN:OE1	2.46	0.47
4:2D:68:THR:O	4:2D:126:ILE:HG21	2.14	0.47
6:4B:50:GLU:HA	6:4B:67:PHE:HA	1.95	0.47
8:5B:12:LYS:NZ	8:5B:94:ILE:HG13	2.29	0.47
8:5T:42:THR:HG23	8:53:116:HIS:CE1	2.49	0.47
9:7A:15:VAL:HG12	11:6F:73:LEU:HD12	1.97	0.47
10:8A:75:LEU:HD12	10:8A:79:MET:HB3	1.96	0.47
9:7C:103:TRP:CH2	11:6E:41:ALA:HB2	2.50	0.47
10:8C:903:THR:OG1	10:8C:904:ARG:N	2.46	0.47
1:Z4:189:ASP:OD1	1:Z4:189:ASP:N	2.47	0.47
1:N4:125:SER:OG	1:N4:336:GLY:O	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N4:324:ALA:HB3	1:N4:327:ALA:HB2	1.96	0.47
1:J4:112:GLY:HA2	1:I4:139:ASP:H	1.78	0.47
2:C2:4:PHE:HB2	2:B2:67:ARG:NH2	2.29	0.47
1:AP:265:LEU:HD23	1:AP:379:LYS:HG2	1.95	0.47
1:DO:104:PRO:HB3	1:CO:133:SER:HB2	1.95	0.47
1:EO:95:ALA:HA	1:EO:99:GLY:HA3	1.96	0.47
1:EO:130:GLU:O	1:EO:344:ARG:NH1	2.44	0.47
2:AL:3:VAL:O	1:AJ:253:ASN:ND2	2.47	0.47
1:BK:348:ARG:HH12	5:1J:164:LYS:HG3	1.79	0.47
1:NJ:324:ALA:HB3	1:NJ:327:ALA:HB2	1.96	0.47
1:OJ:89:ALA:HB2	1:LJ:193:TRP:HZ3	1.80	0.47
1:KJ:215:GLY:HA2	1:KJ:220:THR:HG22	1.96	0.47
1:JJ:181:ARG:HH21	1:RE:171:GLU:HG2	1.80	0.47
1:LJ:252:VAL:HA	2:AH:9:VAL:HB	1.96	0.47
1:HJ:291:ALA:O	2:AH:10:SER:HB2	2.14	0.47
1:IJ:182:LEU:O	1:IJ:186:SER:HB3	2.14	0.47
1:XE:189:ASP:OD1	1:XE:189:ASP:N	2.47	0.47
1:ME:298:ALA:HB1	1:ME:303:ALA:HB1	1.97	0.47
1:QE:167:ILE:HD12	1:QE:370:GLY:HA2	1.96	0.47
1:UE:185:ASP:OD1	1:Q9:344:ARG:NH1	2.47	0.47
1:SE:256:ASP:CA	1:SE:259:VAL:HG12	2.44	0.47
1:JE:129:VAL:HG11	1:JE:342:ALA:HB1	1.95	0.47
1:HE:291:ALA:O	2:AC:10:SER:HB2	2.14	0.47
2:AB:3:VAL:O	1:A9:253:ASN:ND2	2.47	0.47
1:Z9:167:ILE:HG21	1:Z9:342:ALA:HB3	1.95	0.47
1:N9:104:PRO:HA	1:M9:131:ALA:HB1	1.97	0.47
1:Q9:186:SER:OG	1:Q9:188:PHE:O	2.31	0.47
1:O9:220:THR:HG22	1:O9:225:LYS:HD3	1.96	0.47
1:W9:121:ARG:NH1	1:W9:343:GLU:OE2	2.47	0.47
1:W9:182:LEU:O	1:W9:186:SER:CB	2.63	0.47
1:U9:294:ARG:HH12	1:T9:294:ARG:HE	1.62	0.47
1:J9:289:LYS:HD3	1:J9:293:GLY:HA2	1.95	0.47
1:B9:281:THR:HA	1:B9:323:ILE:HD11	1.96	0.47
6:4A:110:LEU:HB3	6:4A:111:ARG:NH1	2.30	0.47
8:5A:44:LEU:C	8:5A:44:LEU:CD1	2.87	0.47
8:5M:44:LEU:O	8:5X:7:LYS:NZ	2.42	0.47
4:2K:126:ILE:O	4:2K:126:ILE:HG13	2.14	0.47
5:1L:343:SER:HB2	5:1L:349:GLN:HA	1.96	0.47
6:4F:12:ALA:HB1	6:4F:97:LEU:HD13	1.96	0.47
8:5R:50:TRP:HA	8:5Q:60:ARG:HG2	1.95	0.47
8:5E:50:TRP:CE3	8:5D:132:LEU:HD13	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2H:56:LYS:HD3	4:2H:81:ALA:HB3	1.97	0.47
4:2H:71:ARG:C	4:2H:72:TRP:CD1	2.93	0.47
6:4D:110:LEU:HB3	6:4D:111:ARG:NH1	2.30	0.47
5:1F:343:SER:HB2	5:1F:349:GLN:HA	1.96	0.47
4:2F:71:ARG:C	4:2F:72:TRP:CD1	2.93	0.47
8:5C:4:GLN:CG	8:5C:96:PRO:HB2	2.45	0.47
5:1D:385:ARG:HE	5:1D:392:PRO:HA	1.79	0.47
4:2D:67:LEU:C	4:2D:67:LEU:HD12	2.38	0.47
4:2D:71:ARG:C	4:2D:72:TRP:CD1	2.93	0.47
8:5B:44:LEU:C	8:5B:44:LEU:CD1	2.87	0.47
8:5Y:3:ALA:HA	8:53:71:LYS:HG2	1.95	0.47
8:5Y:28:ARG:HA	8:53:116:HIS:HB3	1.95	0.47
10:8C:885:PHE:HB2	10:8C:915:LEU:HD11	1.97	0.47
9:7B:22:TRP:HB3	9:7B:98:VAL:HA	1.95	0.47
10:8B:75:LEU:HD12	10:8B:79:MET:HB3	1.96	0.47
10:8B:930:PRO:HG3	11:6C:29:LEU:HD12	1.96	0.47
1:Z4:95:ALA:HA	1:Z4:99:GLY:HA3	1.96	0.47
1:R4:111:ARG:HG3	1:Q4:138:VAL:HG12	1.97	0.47
1:Q4:322:ASP:OD1	1:Q4:322:ASP:N	2.45	0.47
1:W4:204:ARG:NH2	1:V4:142:ASP:OD2	2.48	0.47
1:U4:294:ARG:HH12	1:T4:294:ARG:HE	1.62	0.47
1:T4:265:LEU:HD23	1:T4:379:LYS:HG2	1.96	0.47
1:K4:215:GLY:HA2	1:K4:220:THR:HG22	1.96	0.47
1:J4:252:VAL:HG11	2:E2:3:VAL:HG11	1.96	0.47
1:J4:289:LYS:HD3	1:J4:293:GLY:HA2	1.95	0.47
1:L4:242:ALA:HA	1:L4:382:LYS:O	2.13	0.47
1:I4:185:ASP:OD1	1:FO:344:ARG:NH1	2.47	0.47
1:A4:253:ASN:ND2	2:A6:3:VAL:O	2.47	0.47
1:A4:289:LYS:HD3	1:A4:293:GLY:HA2	1.97	0.47
1:NO:121:ARG:NH2	1:NO:343:GLU:OE1	2.42	0.47
1:RO:111:ARG:HG3	1:QO:138:VAL:HG12	1.97	0.47
1:WO:204:ARG:NH2	1:VO:142:ASP:OD2	2.48	0.47
1:UO:185:ASP:OD1	1:QJ:344:ARG:NH1	2.47	0.47
1:UO:294:ARG:HH12	1:TO:294:ARG:HE	1.62	0.47
1:TO:265:LEU:HD23	1:TO:379:LYS:HG2	1.96	0.47
1:LO:121:ARG:NH1	1:LO:343:GLU:OE2	2.47	0.47
1:LO:252:VAL:HA	2:AM:9:VAL:HB	1.96	0.47
1:AO:111:ARG:HH12	1:AJ:340:THR:HG1	1.58	0.47
1:DO:180:GLN:HG2	1:GJ:348:ARG:HH22	1.80	0.47
1:DO:263:TYR:OH	1:EO:305:GLU:OE1	2.26	0.47
1:ZJ:108:GLU:OE2	1:ZJ:111:ARG:NH1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:210:PHE:HZ	1:AK:368:VAL:HG21	1.79	0.47
1:BK:157:THR:O	1:BK:158:ALA:HB2	2.15	0.47
1:BK:351:ARG:O	5:1J:44:ARG:NH2	2.48	0.47
1:NJ:352:ASP:OD2	1:LJ:357:LYS:NZ	2.39	0.47
1:OJ:277:MET:O	1:OJ:317:ALA:N	2.45	0.47
1:PJ:189:ASP:OD1	1:PJ:189:ASP:N	2.47	0.47
1:WJ:182:LEU:O	1:WJ:186:SER:CB	2.62	0.47
1:JJ:122:GLN:HG2	1:JJ:123:ILE:HG23	1.97	0.47
1:HJ:92:SER:HB2	1:EJ:182:LEU:HB2	1.96	0.47
1:IJ:275:PHE:HB2	1:IJ:314:VAL:HG22	1.97	0.47
1:DJ:90:LEU:HD13	1:DJ:91:ASN:HB2	1.96	0.47
1:EJ:121:ARG:NH2	1:EJ:343:GLU:OE1	2.44	0.47
1:BJ:281:THR:HA	1:BJ:323:ILE:HD11	1.96	0.47
1:CJ:139:ASP:N	1:CJ:139:ASP:OD1	2.48	0.47
1:XE:171:GLU:HA	1:XE:367:ARG:HA	1.97	0.47
1:BF:192:THR:HG23	5:1G:161:GLY:CA	2.44	0.47
1:NE:265:LEU:HD23	1:NE:379:LYS:HG2	1.97	0.47
1:UE:182:LEU:O	1:UE:186:SER:OG	2.33	0.47
1:IE:275:PHE:HB2	1:IE:314:VAL:HG22	1.97	0.47
1:EE:256:ASP:HB2	1:FE:287:LYS:HE3	1.97	0.47
2:BC:19:TYR:OH	2:BC:31:ARG:O	2.23	0.47
1:X9:171:GLU:HA	1:X9:367:ARG:HA	1.97	0.47
1:Z9:227:LYS:HG2	1:Z9:380:LEU:HD22	1.97	0.47
1:AA:210:PHE:HZ	1:AA:368:VAL:HG21	1.79	0.47
1:M9:298:ALA:HB1	1:M9:303:ALA:HB1	1.97	0.47
1:E9:256:ASP:HB2	1:F9:287:LYS:HE3	1.97	0.47
1:E9:338:GLY:O	1:E9:373:SER:N	2.41	0.47
1:C9:289:LYS:HD3	1:C9:293:GLY:HA2	1.97	0.47
4:2A:91:LEU:CD1	4:2A:132:VAL:HG23	2.36	0.47
4:2A:112:ALA:HB1	5:1L:243:ARG:HB2	1.96	0.47
5:1A:378:PHE:CG	5:1L:384:LYS:HD2	2.50	0.47
8:5G:119:GLU:HG2	8:5B:41:VAL:HG22	1.95	0.47
4:2K:188:ARG:O	5:1J:240:GLN:NE2	2.48	0.47
5:1K:225:ILE:HD13	5:1K:244:LEU:HD11	1.97	0.47
6:4F:110:LEU:HB3	6:4F:111:ARG:HH12	1.80	0.47
8:5L:134:PHE:CD1	8:5K:80:ARG:HD3	2.50	0.47
8:5R:4:GLN:HG3	8:5Q:70:PHE:CE2	2.49	0.47
8:5R:57:ALA:O	8:5W:117:ASN:O	2.33	0.47
8:5R:61:SER:OG	8:5R:62:ALA:N	2.48	0.47
4:2I:56:LYS:HD3	4:2I:81:ALA:HB3	1.96	0.47
5:1I:324:ARG:NH2	5:1H:360:PRO:HB2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1J:194:MET:HG3	5:1J:201:LEU:HD11	1.96	0.47
8:5E:4:GLN:CG	8:5E:96:PRO:HB2	2.45	0.47
8:5W:88:VAL:HG12	8:5W:106:MET:HB3	1.97	0.47
8:5W:134:PHE:CD2	8:5V:80:ARG:NE	2.83	0.47
5:1H:194:MET:HG3	5:1H:201:LEU:HD11	1.96	0.47
6:4D:10:GLN:HG2	7:3C:22:ALA:HB1	1.97	0.47
8:5D:27:LEU:HD11	8:5D:30:THR:HB	1.95	0.47
8:5J:61:SER:OG	8:5J:62:ALA:N	2.48	0.47
4:2E:105:TRP:HA	4:2E:118:ALA:HA	1.97	0.47
4:2F:68:THR:O	4:2F:126:ILE:HG21	2.14	0.47
6:4C:12:ALA:HB1	6:4C:97:LEU:HD13	1.96	0.47
6:4C:35:VAL:HG21	7:3C:52:VAL:HG22	1.95	0.47
8:5C:95:ILE:CB	8:5C:98:PHE:HB2	2.40	0.47
8:5I:61:SER:OG	8:5I:62:ALA:N	2.48	0.47
8:5O:61:SER:OG	8:5O:62:ALA:N	2.48	0.47
4:2C:89:LEU:HD22	4:2C:101:VAL:CG2	2.45	0.47
5:1D:194:MET:HG3	5:1D:201:LEU:HD11	1.96	0.47
4:2D:76:GLN:HB3	4:2D:116:ILE:HG22	1.97	0.47
4:2D:101:VAL:O	4:2D:101:VAL:HG23	2.13	0.47
9:7A:195:TRP:HD1	9:7A:196:PHE:CD1	2.30	0.47
9:7A:265:LEU:HB3	10:8A:155:GLN:CD	2.40	0.47
10:8A:13:ILE:HD11	10:8B:17:PHE:HB3	1.97	0.47
11:6A:29:LEU:HB3	11:6A:33:HIS:O	2.15	0.47
8:5Y:61:SER:OG	8:5Y:62:ALA:N	2.48	0.47
9:7C:265:LEU:HB3	10:8C:155:GLN:CD	2.40	0.47
11:6F:65:PHE:HA	11:6F:69:ARG:HH21	1.78	0.47
10:8B:784:VAL:CG1	10:8B:787:LEU:HD12	2.42	0.47
10:8B:831:GLY:O	10:8B:952:ARG:NH1	2.48	0.47
10:8B:885:PHE:HB2	10:8B:915:LEU:HD11	1.97	0.47
1:Y4:149:SER:HB3	1:Y4:152:ALA:HB2	1.95	0.47
1:N4:104:PRO:HA	1:M4:131:ALA:HB1	1.97	0.47
1:P4:297:TRP:CE2	1:P4:309:LEU:HD23	2.49	0.47
1:I4:129:VAL:HG11	1:I4:342:ALA:HB1	1.97	0.47
1:E4:257:ALA:HB1	1:E4:381:LEU:HD11	1.97	0.47
1:F4:121:ARG:NH1	1:F4:343:GLU:OE2	2.48	0.47
1:BP:196:ASN:ND2	5:1L:41:TRP:CE2	2.81	0.47
1:NO:265:LEU:HD23	1:NO:379:LYS:HG2	1.97	0.47
1:OO:183:LEU:HD13	1:OO:360:VAL:HG21	1.97	0.47
1:WO:167:ILE:HG21	1:WO:342:ALA:HB3	1.97	0.47
1:LO:129:VAL:HG11	1:LO:342:ALA:HB1	1.95	0.47
1:LO:338:GLY:HA2	1:LO:374:ASP:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HO:92:SER:HB2	1:EO:182:LEU:HB2	1.96	0.47
1:AO:324:ALA:HB3	1:AO:327:ALA:HB2	1.97	0.47
1:BO:277:MET:HG2	1:BO:330:ILE:HG12	1.97	0.47
1:AK:349:VAL:CG1	5:1H:161:GLY:C	2.88	0.47
1:TJ:189:ASP:HB3	1:TJ:192:THR:HG22	1.96	0.47
1:SJ:256:ASP:CA	1:SJ:259:VAL:HG12	2.44	0.47
1:GJ:167:ILE:HG21	1:GJ:342:ALA:HB3	1.97	0.47
1:BJ:277:MET:HG2	1:BJ:330:ILE:HG12	1.97	0.47
1:CJ:189:ASP:OD1	1:CJ:189:ASP:N	2.48	0.47
1:CJ:289:LYS:HD3	1:CJ:293:GLY:HA2	1.97	0.47
2:AI:35:ALA:HB2	3:FI:6:LEU:HD13	1.97	0.47
1:ZE:95:ALA:HA	1:ZE:99:GLY:HA3	1.96	0.47
1:WE:204:ARG:NH2	1:VE:142:ASP:OD2	2.48	0.47
1:UE:171:GLU:HA	1:UE:367:ARG:HA	1.96	0.47
1:HE:256:ASP:HA	1:HE:259:VAL:HG12	1.97	0.47
1:DE:90:LEU:HD13	1:DE:91:ASN:HB2	1.96	0.47
1:EE:257:ALA:HB1	1:EE:381:LEU:HD11	1.97	0.47
1:O9:183:LEU:HD13	1:O9:360:VAL:HG21	1.97	0.47
1:T9:189:ASP:HB3	1:T9:192:THR:HG22	1.96	0.47
1:A9:289:LYS:HD3	1:A9:293:GLY:HA2	1.97	0.47
1:F9:121:ARG:NH1	1:F9:343:GLU:OE2	2.48	0.47
8:5S:61:SER:OG	8:5S:62:ALA:N	2.48	0.47
4:2L:56:LYS:HD3	4:2L:81:ALA:HB3	1.97	0.47
8:5X:33:SER:CB	8:5W:111:ASP:HB3	2.45	0.47
6:4E:12:ALA:HB1	6:4E:97:LEU:HD13	1.96	0.47
8:5E:44:LEU:C	8:5E:44:LEU:CD1	2.87	0.47
8:5W:44:LEU:HD11	8:51:7:LYS:CA	2.43	0.47
8:5D:28:ARG:HB3	8:5C:116:HIS:CD2	2.50	0.47
5:1F:98:ASN:OD1	5:1F:98:ASN:N	2.45	0.47
4:2F:57:ALA:HB3	4:2F:139:GLY:HA2	1.97	0.47
8:5C:28:ARG:HB3	8:5B:116:HIS:CD2	2.50	0.47
5:1D:343:SER:HB2	5:1D:349:GLN:HA	1.96	0.47
6:4B:82:LYS:O	6:4B:86:ALA:N	2.46	0.47
9:7A:117:LEU:O	9:7A:117:LEU:HD23	2.15	0.47
11:6A:164:PRO:HA	11:6F:5:GLU:OE2	2.13	0.47
9:7C:117:LEU:O	9:7C:117:LEU:HD23	2.15	0.47
11:6E:81:TRP:CE2	8:52:44:LEU:HD22	2.50	0.47
11:6C:81:TRP:CE2	8:50:44:LEU:HD22	2.50	0.47
8:50:114:GLY:CA	8:51:9:LEU:HD21	2.42	0.47
1:A5:277:MET:O	1:A5:317:ALA:N	2.46	0.47
1:H4:92:SER:HB2	1:E4:182:LEU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H4:289:LYS:HD3	1:H4:293:GLY:HA2	1.95	0.47
1:E4:139:ASP:HA	1:E4:162:ILE:HA	1.97	0.47
1:C4:121:ARG:NH1	1:C4:343:GLU:OE2	2.48	0.47
1:XO:171:GLU:HA	1:XO:367:ARG:HA	1.97	0.47
1:AP:346:ASP:HA	5:1K:41:TRP:CD1	2.50	0.47
1:IO:171:GLU:HG2	1:MJ:181:ARG:NH2	2.23	0.47
1:EO:257:ALA:HB1	1:EO:381:LEU:HD11	1.97	0.47
2:CM:4:PHE:HB2	2:BM:67:ARG:NH2	2.29	0.47
1:MJ:125:SER:OG	1:MJ:336:GLY:O	2.27	0.47
1:MJ:162:ILE:HD12	1:FJ:100:TYR:HD2	1.79	0.47
1:QJ:338:GLY:O	1:QJ:373:SER:N	2.43	0.47
1:TJ:183:LEU:HD22	1:TJ:360:VAL:HG21	1.97	0.47
1:JJ:289:LYS:HD3	1:JJ:293:GLY:HA2	1.95	0.47
1:VJ:328:TYR:HB3	1:VJ:380:LEU:HD23	1.97	0.47
1:CJ:121:ARG:NH1	1:CJ:343:GLU:OE2	2.48	0.47
1:YE:149:SER:HB3	1:YE:152:ALA:HB2	1.96	0.47
1:BF:157:THR:O	1:BF:158:ALA:HB2	2.15	0.47
1:ME:149:SER:O	1:ME:150:GLU:C	2.58	0.47
1:WE:182:LEU:O	1:WE:186:SER:CB	2.63	0.47
1:UE:243:THR:O	1:UE:250:ALA:HB2	2.15	0.47
1:UE:294:ARG:HH12	1:TE:294:ARG:HE	1.62	0.47
1:JE:122:GLN:HG2	1:JE:123:ILE:HG23	1.97	0.47
1:LE:121:ARG:NH1	1:LE:343:GLU:OE2	2.47	0.47
1:DE:287:LYS:HE3	1:CE:256:ASP:HB2	1.95	0.47
1:FE:121:ARG:NH1	1:FE:343:GLU:OE2	2.48	0.47
1:Z9:189:ASP:N	1:Z9:189:ASP:OD1	2.47	0.47
1:BA:151:THR:HG23	1:BA:151:THR:O	2.15	0.47
1:U9:171:GLU:HA	1:U9:367:ARG:HA	1.96	0.47
1:I9:129:VAL:HG11	1:I9:342:ALA:HB1	1.97	0.47
1:A9:162:ILE:HD13	1:C9:101:LEU:HD21	1.97	0.47
1:D9:338:GLY:O	1:D9:373:SER:N	2.48	0.47
1:B9:262:VAL:HG21	1:B9:310:MET:HG2	1.96	0.47
2:A7:35:ALA:HB2	3:F7:6:LEU:HD13	1.97	0.47
4:2B:76:GLN:HB3	4:2B:116:ILE:HG22	1.97	0.47
8:5S:9:LEU:HD21	8:5X:113:ALA:O	2.15	0.47
5:1K:98:ASN:HD22	5:1K:136:HIS:CE1	2.33	0.47
5:1L:98:ASN:ND2	5:1L:135:LEU:O	2.47	0.47
4:2L:71:ARG:C	4:2L:72:TRP:CD1	2.93	0.47
8:5F:4:GLN:CG	8:5F:96:PRO:HB2	2.45	0.47
8:5F:35:ASN:O	8:5E:83:PHE:HZ	1.96	0.47
4:2I:86:VAL:HG23	4:2I:107:LEU:HD13	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1J:98:ASN:ND2	5:1J:135:LEU:O	2.47	0.47
8:5W:34:PHE:CD2	8:5V:110:ILE:CG1	2.91	0.47
8:5W:61:SER:OG	8:5W:62:ALA:N	2.48	0.47
8:5Q:88:VAL:HG12	8:5Q:106:MET:HB3	1.97	0.47
5:1H:98:ASN:N	5:1H:98:ASN:OD1	2.45	0.47
6:4D:12:ALA:HB1	6:4D:97:LEU:HD13	1.96	0.47
8:5D:50:TRP:CD1	8:5C:132:LEU:N	2.74	0.47
8:5J:88:VAL:HG12	8:5J:106:MET:HB3	1.97	0.47
8:5P:3:ALA:HA	8:5O:71:LYS:HG2	1.97	0.47
4:2E:126:ILE:O	4:2E:126:ILE:HG13	2.14	0.47
4:2C:56:LYS:HD3	4:2C:81:ALA:HB3	1.96	0.47
6:4B:35:VAL:HG21	7:3B:52:VAL:HG22	1.95	0.47
6:4B:110:LEU:HB3	6:4B:111:ARG:NH1	2.30	0.47
6:4B:110:LEU:HB3	6:4B:111:ARG:HH12	1.80	0.47
9:7A:103:TRP:CH2	11:6A:41:ALA:HB2	2.50	0.47
10:8A:831:GLY:O	10:8A:952:ARG:NH1	2.48	0.47
11:6E:14:PHE:CE1	11:6D:194:SER:HA	2.49	0.47
8:50:61:SER:OG	8:50:62:ALA:N	2.48	0.47
1:B5:157:THR:O	1:B5:158:ALA:HB2	2.15	0.47
1:M4:215:GLY:HA2	1:M4:220:THR:HG22	1.96	0.47
1:P4:298:ALA:HB1	1:P4:303:ALA:HB1	1.96	0.47
1:U4:289:LYS:HA	1:U4:295:PHE:HA	1.96	0.47
1:S4:256:ASP:CA	1:S4:259:VAL:HG12	2.44	0.47
1:K4:111:ARG:NH1	1:J4:340:THR:OG1	2.43	0.47
1:J4:277:MET:O	1:J4:317:ALA:N	2.41	0.47
1:L4:167:ILE:HG21	1:L4:342:ALA:HB3	1.97	0.47
1:A4:162:ILE:HD13	1:C4:101:LEU:HD21	1.97	0.47
1:IO:275:PHE:HB2	1:IO:314:VAL:HG22	1.97	0.47
1:AO:289:LYS:HD3	1:AO:293:GLY:HA2	1.97	0.47
1:EO:139:ASP:HA	1:EO:162:ILE:HA	1.97	0.47
1:CO:90:LEU:HB3	1:CO:91:ASN:H	1.63	0.47
2:AN:35:ALA:HB2	3:FN:6:LEU:HD13	1.97	0.47
1:JJ:285:VAL:HG11	1:JJ:309:LEU:HD11	1.98	0.47
1:VJ:182:LEU:O	1:VJ:186:SER:OG	2.31	0.47
1:VJ:265:LEU:HD23	1:VJ:379:LYS:HG2	1.95	0.47
2:AG:15:ALA:HB3	2:AB:66:VAL:HA	1.97	0.47
1:NE:104:PRO:HA	1:ME:131:ALA:HB1	1.97	0.47
1:HE:92:SER:HB2	1:EE:182:LEU:HB2	1.96	0.47
1:HE:149:SER:HB2	1:HE:152:ALA:HB2	1.96	0.47
1:AE:324:ALA:HB3	1:AE:327:ALA:HB2	1.97	0.47
2:AD:35:ALA:HB2	3:FD:6:LEU:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:168:PRO:CB	4:2B:125:MET:HG3	2.43	0.47
1:AA:265:LEU:HD23	1:AA:379:LYS:HG2	1.95	0.47
1:P9:220:THR:HB	1:P9:371:ASP:HB3	1.95	0.47
1:W9:167:ILE:HG21	1:W9:342:ALA:HB3	1.97	0.47
1:J9:343:GLU:HB3	1:J9:368:VAL:HG23	1.97	0.47
1:D9:90:LEU:HD13	1:D9:90:LEU:C	2.41	0.47
4:2A:89:LEU:HD22	4:2A:101:VAL:CG2	2.45	0.47
5:1A:225:ILE:HD13	5:1A:244:LEU:HD11	1.97	0.47
4:2B:71:ARG:C	4:2B:72:TRP:CD1	2.93	0.47
8:5G:4:GLN:HG3	8:5L:70:PHE:CE2	2.50	0.47
7:3F:14:GLU:OE1	7:3F:32:LYS:NZ	2.44	0.47
8:5L:61:SER:OG	8:5L:62:ALA:N	2.48	0.47
8:5L:66:GLY:O	8:5L:124:LEU:N	2.46	0.47
8:5R:9:LEU:HD21	8:5Q:113:ALA:C	2.39	0.47
4:2J:76:GLN:HB3	4:2J:116:ILE:HG22	1.97	0.47
8:5W:97:ASP:CB	8:5V:72:ASP:HB2	2.29	0.47
8:5K:88:VAL:HG12	8:5K:106:MET:HB3	1.97	0.47
4:2G:105:TRP:HA	4:2G:118:ALA:HA	1.97	0.47
5:1G:98:ASN:HD22	5:1G:136:HIS:CE1	2.33	0.47
4:2H:68:THR:O	4:2H:126:ILE:HG21	2.14	0.47
4:2H:76:GLN:HB3	4:2H:116:ILE:HG22	1.97	0.47
7:3D:112:ALA:CB	7:3C:76:PRO:HB2	2.45	0.47
8:5P:88:VAL:HG12	8:5P:106:MET:HB3	1.97	0.47
8:5Z:88:VAL:HG12	8:5Z:106:MET:HB3	1.97	0.47
10:8C:17:PHE:HB3	10:8B:13:ILE:HD11	1.97	0.47
10:8C:75:LEU:HD12	10:8C:79:MET:HB3	1.96	0.47
9:7B:119:GLU:O	9:7B:130:GLU:N	2.45	0.47
10:8B:204:ALA:H	10:8B:764:GLN:HG2	1.79	0.47
10:8B:872:ALA:HB2	10:8B:901:ALA:HB1	1.96	0.47
8:51:61:SER:OG	8:51:62:ALA:N	2.48	0.47
1:M4:181:ARG:NH2	1:I9:171:GLU:HG2	2.24	0.46
1:O4:220:THR:HG22	1:O4:225:LYS:HD3	1.96	0.46
1:L4:252:VAL:HA	2:A2:9:VAL:HB	1.96	0.46
1:E4:256:ASP:HB2	1:F4:287:LYS:HE3	1.97	0.46
1:XO:143:MET:HE3	1:YO:197:ARG:HB2	1.97	0.46
1:ZO:183:LEU:HD22	1:ZO:360:VAL:HG21	1.97	0.46
1:WO:132:THR:HG21	1:SO:102:VAL:HB	1.96	0.46
1:DO:287:LYS:HE3	1:CO:256:ASP:HB2	1.95	0.46
1:CO:121:ARG:NH1	1:CO:343:GLU:OE2	2.48	0.46
1:XJ:143:MET:HE3	1:YJ:197:ARG:HB2	1.97	0.46
1:ZJ:227:LYS:HG2	1:ZJ:380:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:356:ALA:HB2	4:2H:125:MET:CE	2.45	0.46
1:NJ:265:LEU:HD23	1:NJ:379:LYS:HG2	1.97	0.46
1:MJ:149:SER:O	1:MJ:150:GLU:C	2.58	0.46
1:WJ:348:ARG:O	1:WJ:364:ALA:HA	2.15	0.46
1:HJ:256:ASP:HA	1:HJ:259:VAL:HG12	1.97	0.46
1:YE:145:SER:HB3	1:ZE:172:LEU:HD11	1.98	0.46
1:PE:297:TRP:CE2	1:PE:309:LEU:HD23	2.49	0.46
1:WE:167:ILE:HG21	1:WE:342:ALA:HB3	1.97	0.46
1:VE:121:ARG:NH1	1:VE:343:GLU:OE2	2.48	0.46
1:AE:289:LYS:HD3	1:AE:293:GLY:HA2	1.97	0.46
1:GE:135:ASP:HB2	1:BE:106:THR:HG22	1.98	0.46
1:GE:149:SER:C	1:GE:151:THR:N	2.73	0.46
1:CA:211:ILE:HG21	1:CA:320:MET:HG2	1.97	0.46
1:R9:111:ARG:HG3	1:Q9:138:VAL:HG12	1.97	0.46
1:O9:89:ALA:HB2	1:L9:193:TRP:HZ3	1.80	0.46
1:P9:297:TRP:CE2	1:P9:309:LEU:HD23	2.49	0.46
1:W9:348:ARG:O	1:W9:364:ALA:HA	2.15	0.46
1:U9:243:THR:O	1:U9:250:ALA:HB2	2.15	0.46
1:A9:324:ALA:HB3	1:A9:327:ALA:HB2	1.97	0.46
1:E9:257:ALA:HB1	1:E9:381:LEU:HD11	1.97	0.46
5:1B:240:GLN:NE2	4:2C:188:ARG:O	2.48	0.46
5:1B:343:SER:HB2	5:1B:349:GLN:HA	1.96	0.46
8:5S:10:LEU:HD21	8:5N:44:LEU:HD22	1.97	0.46
4:2L:57:ALA:HB3	4:2L:139:GLY:HA2	1.97	0.46
8:5X:88:VAL:HG12	8:5X:106:MET:HB3	1.97	0.46
8:5E:31:ARG:HG3	8:5D:113:ALA:HB2	1.96	0.46
8:5W:33:SER:CB	8:5V:111:ASP:HB3	2.45	0.46
8:5W:95:ILE:HG22	8:5V:70:PHE:CZ	2.50	0.46
4:2G:126:ILE:O	4:2G:126:ILE:HG13	2.14	0.46
6:4D:110:LEU:HB3	6:4D:111:ARG:HH12	1.80	0.46
8:5V:54:LEU:CG	8:51:3:ALA:HB1	2.40	0.46
8:5P:66:GLY:O	8:5P:124:LEU:N	2.46	0.46
5:1E:225:ILE:HD13	5:1E:244:LEU:HD11	1.97	0.46
4:2C:126:ILE:HG13	4:2C:126:ILE:O	2.14	0.46
6:4B:57:ASP:OD1	6:4B:58:LYS:N	2.49	0.46
8:5N:66:GLY:O	8:5N:124:LEU:N	2.46	0.46
11:6B:194:SER:HB2	8:5Z:57:ALA:O	2.14	0.46
8:5Y:83:PHE:O	8:5Z:60:ARG:NH2	2.48	0.46
8:52:83:PHE:O	8:53:60:ARG:NH2	2.48	0.46
8:50:83:PHE:O	8:51:60:ARG:NH2	2.48	0.46
1:O4:367:ARG:HH12	1:S4:181:ARG:HG3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P4:167:ILE:HG21	1:P4:342:ALA:HB3	1.98	0.46
1:H4:291:ALA:O	2:A2:10:SER:HB2	2.14	0.46
2:A1:15:ALA:HB3	2:AL:66:VAL:HA	1.97	0.46
1:ZO:108:GLU:OE2	1:ZO:111:ARG:NH1	2.48	0.46
1:PO:189:ASP:N	1:PO:189:ASP:OD1	2.47	0.46
1:PO:297:TRP:CE2	1:PO:309:LEU:HD23	2.49	0.46
1:UO:289:LYS:HA	1:UO:295:PHE:HA	1.96	0.46
1:GO:149:SER:C	1:GO:151:THR:N	2.73	0.46
1:BO:281:THR:HA	1:BO:323:ILE:HD11	1.96	0.46
1:CO:139:ASP:N	1:CO:139:ASP:OD1	2.48	0.46
1:ZJ:183:LEU:HD22	1:ZJ:360:VAL:HG21	1.97	0.46
1:MJ:298:ALA:HB1	1:MJ:303:ALA:HB1	1.97	0.46
1:PJ:265:LEU:HA	1:PJ:379:LYS:HG3	1.98	0.46
1:WJ:167:ILE:HG21	1:WJ:342:ALA:HB3	1.97	0.46
1:SJ:256:ASP:OD1	1:SJ:256:ASP:C	2.59	0.46
1:VJ:289:LYS:HD2	2:EI:7:HIS:CE1	2.50	0.46
1:HJ:149:SER:HB2	1:HJ:152:ALA:HB2	1.96	0.46
1:DJ:180:GLN:HG2	1:GE:348:ARG:HH22	1.80	0.46
1:EJ:95:ALA:HA	1:EJ:99:GLY:HA3	1.96	0.46
1:FJ:211:ILE:HG21	1:FJ:320:MET:HG2	1.97	0.46
1:GJ:144:GLY:H	1:GJ:158:ALA:HB3	1.80	0.46
2:EI:19:TYR:OH	2:EI:31:ARG:O	2.23	0.46
2:AG:2:ASP:HB3	2:AB:32:ARG:HG2	1.97	0.46
1:GE:167:ILE:HG21	1:GE:342:ALA:HB3	1.97	0.46
1:CE:90:LEU:HB3	1:CE:91:ASN:H	1.63	0.46
1:V9:182:LEU:O	1:V9:186:SER:OG	2.31	0.46
1:V9:328:TYR:HB3	1:V9:380:LEU:HD23	1.97	0.46
1:H9:291:ALA:O	2:A7:10:SER:HB2	2.14	0.46
1:E9:139:ASP:HA	1:E9:162:ILE:HA	1.97	0.46
1:E9:223:LEU:O	1:E9:227:LYS:NZ	2.33	0.46
1:G9:144:GLY:H	1:G9:158:ALA:HB3	1.80	0.46
5:1A:288:ALA:HB2	5:1L:283:HIS:HE1	1.80	0.46
6:4A:110:LEU:HB3	6:4A:111:ARG:HH12	1.80	0.46
6:4A:111:ARG:HG3	6:4A:111:ARG:HH11	1.81	0.46
8:5S:32:ILE:O	8:5X:111:ASP:CB	2.64	0.46
6:4F:111:ARG:HH11	6:4F:111:ARG:HG3	1.81	0.46
5:1J:343:SER:HB2	5:1J:349:GLN:HA	1.96	0.46
6:4E:111:ARG:HH11	6:4E:111:ARG:HG3	1.81	0.46
5:1G:317:GLU:O	5:1G:321:ALA:N	2.44	0.46
8:5V:34:PHE:O	8:5U:109:SER:CB	2.62	0.46
8:5U:32:ILE:HG23	8:5T:112:TYR:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5O:31:ARG:NH1	8:5N:111:ASP:OD2	2.48	0.46
5:1C:225:ILE:HD13	5:1C:244:LEU:HD11	1.97	0.46
8:5N:61:SER:OG	8:5N:62:ALA:N	2.48	0.46
10:8A:214:ASP:O	10:8A:215:LEU:C	2.58	0.46
10:8C:215:LEU:HG	10:8C:219:LEU:HD23	1.97	0.46
11:6E:196:GLN:HB2	8:52:57:ALA:HB2	1.97	0.46
1:Z4:183:LEU:HD22	1:Z4:360:VAL:HG21	1.97	0.46
1:M4:298:ALA:HB1	1:M4:303:ALA:HB1	1.97	0.46
1:O4:220:THR:CG2	1:O4:225:LYS:HD3	2.46	0.46
1:T4:183:LEU:HD22	1:T4:360:VAL:HG21	1.97	0.46
1:J4:285:VAL:HG11	1:J4:309:LEU:HD11	1.98	0.46
1:L4:129:VAL:HG11	1:L4:342:ALA:HB1	1.95	0.46
1:B4:277:MET:HG2	1:B4:330:ILE:HG12	1.97	0.46
1:C4:189:ASP:OD1	1:C4:189:ASP:N	2.48	0.46
1:CP:211:ILE:HG21	1:CP:320:MET:HG2	1.97	0.46
1:AP:210:PHE:HZ	1:AP:368:VAL:HG21	1.79	0.46
1:KO:215:GLY:HA2	1:KO:220:THR:HG22	1.96	0.46
1:JO:343:GLU:HB3	1:JO:368:VAL:HG23	1.97	0.46
1:HO:149:SER:HB2	1:HO:152:ALA:HB2	1.96	0.46
1:IO:129:VAL:HG11	1:IO:342:ALA:HB1	1.97	0.46
1:GO:135:ASP:HB2	1:BO:106:THR:HG22	1.98	0.46
1:GO:144:GLY:H	1:GO:158:ALA:HB3	1.80	0.46
1:CK:211:ILE:HG21	1:CK:320:MET:HG2	1.97	0.46
1:XJ:171:GLU:HA	1:XJ:367:ARG:HA	1.97	0.46
1:XJ:338:GLY:O	1:XJ:373:SER:N	2.49	0.46
1:YJ:215:GLY:HA2	1:YJ:220:THR:HG22	1.97	0.46
1:UJ:243:THR:O	1:UJ:250:ALA:HB2	2.15	0.46
1:SJ:382:LYS:HE2	1:SJ:384:ALA:HB2	1.98	0.46
1:JJ:252:VAL:HG11	2:EH:3:VAL:HG11	1.96	0.46
1:EJ:257:ALA:HB1	1:EJ:381:LEU:HD11	1.97	0.46
1:BJ:263:TYR:OH	1:CJ:305:GLU:OE1	2.28	0.46
1:ZE:139:ASP:OD1	1:ZE:139:ASP:N	2.45	0.46
1:OE:220:THR:CG2	1:OE:225:LYS:HD3	2.46	0.46
1:BE:277:MET:HG2	1:BE:330:ILE:HG12	1.97	0.46
2:AB:2:ASP:HB3	2:A6:32:ARG:HG2	1.97	0.46
1:BA:157:THR:O	1:BA:158:ALA:HB2	2.15	0.46
1:O9:220:THR:CG2	1:O9:225:LYS:HD3	2.46	0.46
1:C9:189:ASP:OD1	1:C9:189:ASP:N	2.48	0.46
8:5A:131:ALA:CA	8:5B:50:TRP:CD1	2.98	0.46
8:5G:34:PHE:HB3	8:5L:83:PHE:CZ	2.50	0.46
8:5M:44:LEU:O	8:5X:7:LYS:HE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2K:56:LYS:HD3	4:2K:81:ALA:HB3	1.96	0.46
8:5X:44:LEU:CB	8:51:116:HIS:HB2	2.43	0.46
6:4E:110:LEU:HB3	6:4E:111:ARG:NH1	2.30	0.46
8:5W:53:LEU:HG	8:5V:128:SER:O	2.15	0.46
8:5V:51:ARG:CZ	8:5U:61:SER:OG	2.56	0.46
4:2F:101:VAL:HG23	4:2F:101:VAL:O	2.13	0.46
7:3C:112:ALA:HB2	7:3B:76:PRO:HB2	1.97	0.46
8:5O:66:GLY:O	8:5O:124:LEU:N	2.46	0.46
8:5Z:61:SER:OG	8:5Z:62:ALA:N	2.48	0.46
8:5Z:70:PHE:HE2	8:5O:97:ASP:H	1.63	0.46
10:8C:204:ALA:H	10:8C:764:GLN:HG2	1.79	0.46
11:6E:46:HIS:HA	11:6E:206:VAL:HA	1.97	0.46
9:7B:117:LEU:HD23	9:7B:117:LEU:O	2.15	0.46
10:8B:215:LEU:HG	10:8B:219:LEU:HD23	1.97	0.46
10:8B:848:GLU:O	10:8B:848:GLU:CG	2.60	0.46
11:6C:65:PHE:HA	11:6C:69:ARG:HH21	1.81	0.46
8:51:88:VAL:HG12	8:51:106:MET:HB3	1.97	0.46
1:Y4:145:SER:HB3	1:Z4:172:LEU:HD11	1.98	0.46
1:A5:210:PHE:HZ	1:A5:368:VAL:HG21	1.79	0.46
1:M4:257:ALA:HB1	1:M4:381:LEU:HD11	1.97	0.46
1:W4:167:ILE:HG21	1:W4:342:ALA:HB3	1.97	0.46
2:A2:32:ARG:HG2	2:B2:2:ASP:HB3	1.97	0.46
1:YO:145:SER:HB3	1:ZO:172:LEU:HD11	1.98	0.46
1:AP:216:VAL:HG12	4:2I:127:PRO:HG3	1.89	0.46
1:BP:157:THR:O	1:BP:158:ALA:HB2	2.15	0.46
1:BP:223:LEU:O	1:BP:227:LYS:NZ	2.33	0.46
1:MO:215:GLY:HA2	1:MO:220:THR:HG22	1.96	0.46
1:SO:256:ASP:OD1	1:SO:256:ASP:C	2.59	0.46
1:YJ:344:ARG:NH1	1:WJ:185:ASP:OD1	2.49	0.46
1:PJ:167:ILE:HG21	1:PJ:342:ALA:HB3	1.98	0.46
1:PJ:297:TRP:CE2	1:PJ:309:LEU:HD23	2.49	0.46
1:WJ:204:ARG:NH2	1:VJ:142:ASP:OD2	2.48	0.46
1:AF:265:LEU:HD23	1:AF:379:LYS:HG2	1.95	0.46
1:QE:125:SER:OG	1:QE:336:GLY:O	2.26	0.46
1:OE:89:ALA:HB2	1:LE:193:TRP:HZ3	1.80	0.46
1:WE:348:ARG:O	1:WE:364:ALA:HA	2.15	0.46
1:EE:338:GLY:O	1:EE:373:SER:N	2.41	0.46
1:BE:171:GLU:HA	1:BE:367:ARG:HA	1.98	0.46
1:CE:121:ARG:NH1	1:CE:343:GLU:OE2	2.48	0.46
1:CE:139:ASP:OD1	1:CE:139:ASP:N	2.48	0.46
1:CE:189:ASP:N	1:CE:189:ASP:OD1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X9:256:ASP:HB2	1:Y9:287:LYS:HE3	1.98	0.46
1:Z9:95:ALA:HA	1:Z9:99:GLY:HA3	1.96	0.46
1:G9:149:SER:C	1:G9:151:THR:N	2.73	0.46
8:5A:41:VAL:CG2	8:5A:54:LEU:HB2	2.44	0.46
8:5G:42:THR:HG21	8:5Q:116:HIS:CE1	2.48	0.46
4:2K:89:LEU:HD22	4:2K:101:VAL:CG2	2.45	0.46
8:5R:88:VAL:HG12	8:5R:106:MET:HB3	1.97	0.46
5:1I:98:ASN:HD22	5:1I:136:HIS:CE1	2.33	0.46
5:1I:225:ILE:HD13	5:1I:244:LEU:HD11	1.97	0.46
8:5W:98:PHE:CZ	8:5V:76:ASP:C	2.91	0.46
4:2G:89:LEU:HD22	4:2G:101:VAL:CG2	2.45	0.46
4:2E:89:LEU:HD22	4:2E:101:VAL:CG2	2.45	0.46
4:2E:190:VAL:HG12	5:1D:244:LEU:HD23	1.97	0.46
4:2E:191:ARG:NH1	5:1D:265:GLU:OE2	2.48	0.46
8:5H:61:SER:OG	8:5H:62:ALA:N	2.48	0.46
11:6A:46:HIS:HA	11:6A:206:VAL:HA	1.97	0.46
8:5Y:114:GLY:CA	8:5Z:9:LEU:HD21	2.42	0.46
11:6F:21:GLU:CG	11:6F:44:ARG:HB2	2.45	0.46
9:7B:57:LYS:HD2	9:7B:71:GLU:HB2	1.98	0.46
1:M4:101:LEU:HD21	1:I9:162:ILE:HD13	1.97	0.46
1:O4:100:TYR:O	1:K4:164:ARG:NH1	2.49	0.46
1:K4:183:LEU:HD22	1:K4:360:VAL:HG21	1.98	0.46
1:V4:289:LYS:HD2	2:E3:7:HIS:CE1	2.50	0.46
1:V4:328:TYR:HB3	1:V4:380:LEU:HD23	1.97	0.46
1:L4:338:GLY:HA2	1:L4:374:ASP:HB3	1.97	0.46
2:A3:32:ARG:HG2	2:B3:2:ASP:HB3	1.97	0.46
1:YO:352:ASP:HB3	1:WO:354:PHE:HD1	1.81	0.46
1:AP:277:MET:O	1:AP:317:ALA:N	2.46	0.46
1:AP:346:ASP:CA	5:1K:41:TRP:CD1	2.98	0.46
1:MO:257:ALA:HB1	1:MO:381:LEU:HD11	1.97	0.46
1:UO:171:GLU:HA	1:UO:367:ARG:HA	1.96	0.46
1:VO:121:ARG:NH1	1:VO:343:GLU:OE2	2.48	0.46
1:HO:129:VAL:HG11	1:HO:342:ALA:HB1	1.98	0.46
2:BM:19:TYR:OH	2:BM:31:ARG:O	2.23	0.46
1:YJ:145:SER:HB3	1:ZJ:172:LEU:HD11	1.98	0.46
1:LJ:182:LEU:O	1:LJ:186:SER:OG	2.29	0.46
1:AJ:162:ILE:HD13	1:CJ:101:LEU:HD21	1.97	0.46
1:AJ:289:LYS:HD3	1:AJ:293:GLY:HA2	1.97	0.46
1:DJ:277:MET:HG2	1:DJ:330:ILE:HG12	1.98	0.46
1:EJ:256:ASP:HB2	1:FJ:287:LYS:HE3	1.97	0.46
1:GJ:135:ASP:HB2	1:BJ:106:THR:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XE:256:ASP:HB2	1:YE:287:LYS:HE3	1.98	0.46
1:BF:154:LEU:O	1:BF:154:LEU:CD1	2.64	0.46
1:LE:252:VAL:HA	2:AC:9:VAL:HB	1.96	0.46
1:HE:268:GLU:HG2	1:IE:114:LEU:HG	1.98	0.46
1:DE:338:GLY:O	1:DE:373:SER:N	2.48	0.46
1:K9:215:GLY:HA2	1:K9:220:THR:HG22	1.96	0.46
2:E8:44:LEU:HA	2:E8:76:THR:HA	1.98	0.46
2:A8:32:ARG:HG2	2:B8:2:ASP:HB3	1.97	0.46
8:5S:116:HIS:ND1	8:5O:42:THR:O	2.47	0.46
8:5M:134:PHE:CG	8:5R:80:ARG:HD3	2.50	0.46
8:5X:34:PHE:O	8:5W:109:SER:CA	2.64	0.46
8:5X:134:PHE:CG	8:5W:80:ARG:HD3	2.51	0.46
4:2J:101:VAL:HG23	4:2J:101:VAL:O	2.13	0.46
8:5E:50:TRP:CZ2	8:5D:132:LEU:HB2	2.51	0.46
8:5Q:61:SER:OG	8:5Q:62:ALA:N	2.48	0.46
4:2G:86:VAL:HB	4:2G:105:TRP:HH2	1.77	0.46
5:1H:343:SER:HB2	5:1H:349:GLN:HA	1.96	0.46
6:4C:57:ASP:OD1	6:4C:58:LYS:N	2.49	0.46
8:5U:61:SER:OG	8:5U:62:ALA:N	2.48	0.46
9:7C:58:ALA:HA	10:8C:961:ALA:HB2	1.98	0.46
9:7C:177:VAL:HG21	9:7C:238:PRO:O	2.16	0.46
11:6E:65:PHE:HA	11:6E:69:ARG:HH21	1.81	0.46
9:7B:103:TRP:CH2	11:6C:41:ALA:HB2	2.50	0.46
1:A5:125:SER:CA	5:1B:38:ARG:HH12	2.28	0.46
1:R4:352:ASP:OD1	1:R4:352:ASP:N	2.49	0.46
1:U4:243:THR:O	1:U4:250:ALA:HB2	2.15	0.46
1:K4:281:THR:HA	1:K4:323:ILE:HD11	1.98	0.46
1:ZO:189:ASP:OD1	1:ZO:189:ASP:N	2.47	0.46
1:BP:154:LEU:O	1:BP:154:LEU:CD1	2.64	0.46
1:TO:183:LEU:HD22	1:TO:360:VAL:HG21	1.97	0.46
1:HO:268:GLU:HG2	1:IO:114:LEU:HG	1.98	0.46
1:DO:256:ASP:HA	1:DO:259:VAL:HG12	1.97	0.46
1:BK:351:ARG:HH22	5:1J:41:TRP:HB3	1.75	0.46
1:NJ:101:LEU:H	1:NJ:101:LEU:HG	1.64	0.46
1:OJ:220:THR:CG2	1:OJ:225:LYS:HD3	2.46	0.46
1:OJ:220:THR:HG22	1:OJ:225:LYS:HD3	1.96	0.46
1:UJ:289:LYS:HA	1:UJ:295:PHE:HA	1.96	0.46
1:DJ:90:LEU:HD13	1:DJ:90:LEU:C	2.40	0.46
1:BJ:262:VAL:HG21	1:BJ:310:MET:HG2	1.96	0.46
2:AH:32:ARG:HG2	2:BH:2:ASP:HB3	1.97	0.46
2:CH:19:TYR:OH	2:CH:31:ARG:O	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:XE:143:MET:HE3	1:YE:197:ARG:HB2	1.97	0.46
1:XE:338:GLY:O	1:XE:373:SER:N	2.49	0.46
1:AF:176:PRO:HG2	1:AF:362:PHE:HB2	1.98	0.46
1:RE:111:ARG:HG3	1:QE:138:VAL:HG12	1.97	0.46
1:HE:129:VAL:HG11	1:HE:342:ALA:HB1	1.98	0.46
1:AE:162:ILE:HD13	1:CE:101:LEU:HD21	1.97	0.46
1:EE:139:ASP:HA	1:EE:162:ILE:HA	1.97	0.46
2:AC:35:ALA:HB2	3:FC:6:LEU:HD13	1.97	0.46
1:Y9:145:SER:HB3	1:Z9:172:LEU:HD11	1.98	0.46
1:N9:265:LEU:HD23	1:N9:379:LYS:HG2	1.97	0.46
1:M9:257:ALA:HB1	1:M9:381:LEU:HD11	1.97	0.46
1:T9:183:LEU:HD22	1:T9:360:VAL:HG21	1.97	0.46
1:J9:182:LEU:O	1:J9:186:SER:OG	2.28	0.46
1:L9:338:GLY:HA2	1:L9:374:ASP:HB3	1.97	0.46
1:H9:256:ASP:HA	1:H9:259:VAL:HG12	1.97	0.46
1:F9:149:SER:OG	1:F9:150:GLU:N	2.49	0.46
1:B9:277:MET:HG2	1:B9:330:ILE:HG12	1.97	0.46
1:C9:121:ARG:NH1	1:C9:343:GLU:OE2	2.48	0.46
2:A8:35:ALA:HB2	3:F8:6:LEU:HD13	1.97	0.46
5:1B:225:ILE:HD13	5:1B:244:LEU:HD11	1.98	0.46
4:2B:57:ALA:HB3	4:2B:139:GLY:HA2	1.97	0.46
8:5M:80:ARG:NE	8:5N:134:PHE:CE2	2.83	0.46
5:1K:324:ARG:NH2	5:1J:360:PRO:HB2	2.31	0.46
6:4F:110:LEU:HB3	6:4F:111:ARG:NH1	2.30	0.46
8:5L:3:ALA:HA	8:5K:71:LYS:HG2	1.98	0.46
8:5R:66:GLY:O	8:5R:124:LEU:N	2.46	0.46
4:2I:89:LEU:HD22	4:2I:101:VAL:CG2	2.45	0.46
6:4E:57:ASP:OD1	6:4E:58:LYS:N	2.49	0.46
8:5D:27:LEU:O	8:5D:27:LEU:CD1	2.61	0.46
5:1E:233:GLN:HA	5:1D:266:GLY:HA3	1.96	0.46
4:2F:126:ILE:HG12	4:2F:132:VAL:HG21	1.98	0.46
10:8C:930:PRO:HG3	11:6E:29:LEU:HD12	1.96	0.46
11:6E:29:LEU:HB3	11:6E:33:HIS:O	2.15	0.46
8:53:88:VAL:HG12	8:53:106:MET:HB3	1.97	0.46
11:6C:181:VAL:HB	11:6C:205:VAL:HB	1.98	0.46
1:B5:151:THR:O	1:B5:151:THR:HG23	2.15	0.46
1:N4:265:LEU:HD23	1:N4:379:LYS:HG2	1.97	0.46
1:W4:348:ARG:O	1:W4:364:ALA:HA	2.15	0.46
1:J4:343:GLU:HB3	1:J4:368:VAL:HG23	1.97	0.46
2:B3:19:TYR:OH	2:B3:31:ARG:O	2.23	0.46
1:ZO:265:LEU:HD11	1:ZO:333:GLY:HA2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NO:104:PRO:HA	1:MO:131:ALA:HB1	1.97	0.46
1:OO:89:ALA:HB2	1:LO:193:TRP:HZ3	1.80	0.46
1:OO:220:THR:HG22	1:OO:225:LYS:HD3	1.96	0.46
1:PO:265:LEU:HA	1:PO:379:LYS:HG3	1.98	0.46
1:UO:243:THR:O	1:UO:250:ALA:HB2	2.15	0.46
1:SO:382:LYS:HE2	1:SO:384:ALA:HB2	1.98	0.46
1:HO:182:LEU:O	1:HO:186:SER:OG	2.30	0.46
1:HO:256:ASP:HA	1:HO:259:VAL:HG12	1.97	0.46
1:DO:90:LEU:HD13	1:DO:90:LEU:C	2.40	0.46
1:FO:227:LYS:HE2	1:FO:227:LYS:HB2	1.80	0.46
2:EN:19:TYR:OH	2:EN:31:ARG:O	2.23	0.46
1:ZJ:265:LEU:HD11	1:ZJ:333:GLY:HA2	1.98	0.46
1:AK:176:PRO:HG2	1:AK:362:PHE:HB2	1.98	0.46
1:BK:154:LEU:O	1:BK:154:LEU:CD1	2.64	0.46
1:OJ:367:ARG:HH12	1:SJ:181:ARG:HG3	1.81	0.46
1:DJ:310:MET:HE1	1:EJ:301:LEU:HD22	1.98	0.46
1:EJ:139:ASP:HA	1:EJ:162:ILE:HA	1.97	0.46
2:EI:44:LEU:HA	2:EI:76:THR:HA	1.98	0.46
1:OE:183:LEU:HD13	1:OE:360:VAL:HG21	1.97	0.46
1:VE:171:GLU:HA	1:VE:367:ARG:HA	1.97	0.46
1:HE:183:LEU:HD22	1:HE:360:VAL:HG21	1.98	0.46
1:DE:90:LEU:HD13	1:DE:90:LEU:C	2.40	0.46
1:FE:134:PHE:HB3	1:FE:167:ILE:HB	1.98	0.46
2:AD:44:LEU:HA	2:AD:76:THR:HA	1.98	0.46
2:BD:19:TYR:OH	2:BD:31:ARG:O	2.23	0.46
1:M9:121:ARG:NH2	1:M9:343:GLU:OE1	2.49	0.46
1:F9:211:ILE:HG21	1:F9:320:MET:HG2	1.97	0.46
1:G9:135:ASP:HB2	1:B9:106:THR:HG22	1.97	0.46
2:C7:44:LEU:HA	2:C7:76:THR:HA	1.98	0.46
6:4A:57:ASP:OD1	6:4A:58:LYS:N	2.49	0.46
8:5G:88:VAL:HG12	8:5G:106:MET:HB3	1.97	0.46
8:5M:41:VAL:HG13	8:5X:69:VAL:HG11	1.97	0.46
5:1K:26:THR:HG21	5:1J:138:LEU:CD2	2.46	0.46
8:5X:44:LEU:HB2	8:51:116:HIS:HB3	1.95	0.46
8:5X:66:GLY:O	8:5X:124:LEU:N	2.46	0.46
8:5R:98:PHE:HE2	8:5Q:112:TYR:OH	1.99	0.46
5:1G:225:ILE:HD13	5:1G:244:LEU:HD11	1.97	0.46
8:5V:88:VAL:HG12	8:5V:106:MET:HB3	1.97	0.46
6:4C:110:LEU:HB3	6:4C:111:ARG:HH12	1.80	0.46
8:5C:40:ASP:HA	8:5C:53:LEU:HD13	1.98	0.46
10:8A:820:ARG:HH12	10:8A:827:ARG:HE	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:8A:833:VAL:HA	10:8A:941:VAL:HG13	1.98	0.46
8:5Y:66:GLY:O	8:5Y:124:LEU:N	2.47	0.46
10:8C:228:THR:O	10:8C:228:THR:HG22	2.16	0.46
10:8C:835:ALA:HB3	10:8C:942:VAL:HA	1.98	0.46
8:50:88:VAL:HG12	8:50:106:MET:HB3	1.97	0.46
1:T4:100:TYR:O	1:J4:164:ARG:NH1	2.49	0.46
1:J4:181:ARG:HH21	1:RO:171:GLU:HG2	1.80	0.46
1:A4:324:ALA:HB3	1:A4:327:ALA:HB2	1.97	0.46
1:F4:149:SER:OG	1:F4:150:GLU:N	2.49	0.46
1:F4:211:ILE:HG21	1:F4:320:MET:HG2	1.97	0.46
2:D2:44:LEU:HA	2:D2:76:THR:HA	1.98	0.46
1:YO:215:GLY:HA2	1:YO:220:THR:HG22	1.97	0.46
1:AP:143:MET:O	1:BP:201:LYS:NZ	2.49	0.46
1:AP:189:ASP:OD1	5:1K:32:MET:HE3	2.16	0.46
1:QO:338:GLY:O	1:QO:373:SER:N	2.42	0.46
1:OO:220:THR:CG2	1:OO:225:LYS:HD3	2.46	0.46
1:OO:367:ARG:HH12	1:SO:181:ARG:HG3	1.81	0.46
1:KO:183:LEU:HD22	1:KO:360:VAL:HG21	1.97	0.46
1:KO:281:THR:HA	1:KO:323:ILE:HD11	1.98	0.46
1:VO:289:LYS:HD2	2:EN:7:HIS:CE1	2.50	0.46
1:VO:328:TYR:HB3	1:VO:380:LEU:HD23	1.97	0.46
1:FO:121:ARG:NH1	1:FO:343:GLU:OE2	2.48	0.46
1:FO:211:ILE:HG21	1:FO:320:MET:HG2	1.97	0.46
1:FO:286:ARG:HH12	1:FO:306:PRO:HD2	1.81	0.46
1:BK:151:THR:O	1:BK:151:THR:HG23	2.15	0.46
1:NJ:104:PRO:HA	1:MJ:131:ALA:HB1	1.97	0.46
1:UJ:294:ARG:HH12	1:TJ:294:ARG:HE	1.62	0.46
1:TJ:277:MET:O	1:TJ:317:ALA:N	2.46	0.46
1:JJ:182:LEU:O	1:JJ:186:SER:OG	2.28	0.46
1:HJ:129:VAL:HG11	1:HJ:342:ALA:HB1	1.98	0.46
1:HJ:268:GLU:HG2	1:IJ:114:LEU:HG	1.98	0.46
1:HJ:324:ALA:HB3	1:HJ:327:ALA:HB2	1.98	0.46
1:AJ:322:ASP:N	1:AJ:322:ASP:OD1	2.47	0.46
1:BJ:211:ILE:HG21	1:BJ:320:MET:HG2	1.98	0.46
2:CI:44:LEU:HA	2:CI:76:THR:HA	1.98	0.46
2:BI:44:LEU:HA	2:BI:76:THR:HA	1.98	0.46
2:AH:35:ALA:HB2	3:FH:6:LEU:HD13	1.97	0.46
1:CF:211:ILE:HG21	1:CF:320:MET:HG2	1.97	0.46
1:OE:277:MET:O	1:OE:317:ALA:N	2.45	0.46
1:JE:343:GLU:HB3	1:JE:368:VAL:HG23	1.97	0.46
1:DE:277:MET:HG2	1:DE:330:ILE:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:352:ASP:OD1	1:BE:352:ASP:N	2.49	0.46
1:R9:352:ASP:OD1	1:R9:352:ASP:N	2.49	0.46
1:M9:149:SER:O	1:M9:150:GLU:C	2.58	0.46
1:K9:281:THR:HA	1:K9:323:ILE:HD11	1.98	0.46
1:V9:288:MET:HE3	1:V9:297:TRP:HE1	1.81	0.46
1:H9:268:GLU:HG2	1:I9:114:LEU:HG	1.98	0.46
1:G9:277:MET:O	1:G9:317:ALA:N	2.45	0.46
1:B9:171:GLU:HA	1:B9:367:ARG:HA	1.98	0.46
2:C8:44:LEU:HA	2:C8:76:THR:HA	1.98	0.46
4:2A:86:VAL:CG2	4:2A:107:LEU:CD1	2.86	0.46
6:4A:12:ALA:HB1	6:4A:97:LEU:HD13	1.96	0.46
8:5M:88:VAL:HG12	8:5M:106:MET:HB3	1.97	0.46
5:1K:26:THR:HG23	5:1J:167:PHE:HZ	1.80	0.46
8:5R:44:LEU:HD11	8:5W:7:LYS:C	2.40	0.46
8:5R:97:ASP:CG	8:5Q:72:ASP:OD2	2.59	0.46
7:3E:37:ALA:HB2	7:3E:63:VAL:HG12	1.98	0.46
8:5E:50:TRP:CG	8:5D:131:ALA:HA	2.51	0.46
8:5K:50:TRP:CD2	8:5J:60:ARG:HG3	2.50	0.46
8:5D:40:ASP:HA	8:5D:53:LEU:HD13	1.98	0.46
8:5U:53:LEU:HB2	8:5T:129:ALA:CB	2.45	0.46
8:5U:55:GLY:CA	8:5T:88:VAL:HG13	2.46	0.46
8:5I:88:VAL:HG12	8:5I:106:MET:HB3	1.97	0.46
11:6A:24:THR:HG21	11:6F:72:GLN:CG	2.46	0.46
11:6A:196:GLN:HB2	8:5Y:57:ALA:HB2	1.97	0.46
8:5Y:70:PHE:CE1	8:5Z:98:PHE:CZ	3.00	0.46
9:7B:177:VAL:HG21	9:7B:238:PRO:O	2.15	0.46
1:X4:338:GLY:O	1:X4:373:SER:N	2.49	0.46
1:Z4:347:LEU:HB3	1:Z4:366:LYS:HB2	1.97	0.46
1:M4:95:ALA:HA	1:M4:99:GLY:HA3	1.98	0.46
1:M4:121:ARG:NH2	1:M4:343:GLU:OE1	2.49	0.46
1:V4:121:ARG:NH1	1:V4:343:GLU:OE2	2.48	0.46
1:V4:171:GLU:HA	1:V4:367:ARG:HA	1.97	0.46
1:I4:162:ILE:HD13	1:MO:101:LEU:HD21	1.98	0.46
1:D4:90:LEU:HD13	1:D4:90:LEU:C	2.40	0.46
1:D4:110:ILE:HD11	1:D4:193:TRP:CE2	2.51	0.46
1:B4:110:ILE:HD11	1:B4:193:TRP:CE2	2.51	0.46
1:C4:281:THR:HG23	1:C4:323:ILE:HD11	1.98	0.46
2:A1:3:VAL:O	1:AO:253:ASN:ND2	2.48	0.46
2:E2:44:LEU:HA	2:E2:76:THR:HA	1.98	0.46
2:B2:44:LEU:HA	2:B2:76:THR:HA	1.98	0.46
1:XO:338:GLY:O	1:XO:373:SER:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:177:LYS:HG3	1:AP:361:LEU:CD1	2.42	0.46
1:BP:151:THR:HG23	1:BP:151:THR:O	2.15	0.46
1:IO:162:ILE:HD13	1:MJ:101:LEU:HD21	1.97	0.46
1:EO:338:GLY:O	1:EO:373:SER:N	2.41	0.46
1:FO:101:LEU:N	1:FO:101:LEU:CD1	2.79	0.46
1:BO:110:ILE:HD11	1:BO:193:TRP:CE2	2.51	0.46
1:LJ:338:GLY:HA2	1:LJ:374:ASP:HB3	1.97	0.46
1:EJ:265:LEU:HD22	1:EJ:270:ARG:HG3	1.98	0.46
1:FJ:121:ARG:NH1	1:FJ:343:GLU:OE2	2.48	0.46
1:CJ:281:THR:HG23	1:CJ:323:ILE:HD11	1.98	0.46
2:BI:10:SER:O	2:BI:34:ARG:NH2	2.49	0.46
2:CH:10:SER:O	2:CH:34:ARG:NH2	2.49	0.46
1:ZE:108:GLU:OE2	1:ZE:111:ARG:NH1	2.48	0.46
1:ZE:181:ARG:HH21	1:VE:171:GLU:HG2	1.81	0.46
1:ME:257:ALA:HB1	1:ME:381:LEU:HD11	1.97	0.46
1:OE:367:ARG:HH12	1:SE:181:ARG:HG3	1.81	0.46
1:PE:167:ILE:HG21	1:PE:342:ALA:HB3	1.98	0.46
1:PE:265:LEU:HA	1:PE:379:LYS:HG3	1.98	0.46
1:JE:181:ARG:HH21	1:R9:171:GLU:HG2	1.80	0.46
1:IE:129:VAL:HG11	1:IE:342:ALA:HB1	1.97	0.46
1:DE:180:GLN:HG2	1:G9:348:ARG:HH22	1.80	0.46
1:DE:256:ASP:HA	1:DE:259:VAL:HG12	1.97	0.46
1:GE:144:GLY:H	1:GE:158:ALA:HB3	1.80	0.46
1:CE:289:LYS:HD3	1:CE:293:GLY:HA2	1.97	0.46
2:EC:44:LEU:HA	2:EC:76:THR:HA	1.98	0.46
1:Y9:344:ARG:NH1	1:W9:185:ASP:OD1	2.49	0.46
1:O9:367:ARG:HH12	1:S9:181:ARG:HG3	1.81	0.46
1:K9:183:LEU:HD22	1:K9:360:VAL:HG21	1.98	0.46
1:J9:122:GLN:HG2	1:J9:123:ILE:HG23	1.97	0.46
1:D9:110:ILE:HD11	1:D9:193:TRP:CE2	2.51	0.46
1:D9:256:ASP:HA	1:D9:259:VAL:HG12	1.97	0.46
8:5S:9:LEU:HD21	8:5X:113:ALA:C	2.41	0.46
4:2K:105:TRP:HA	4:2K:118:ALA:HA	1.97	0.46
5:1K:283:HIS:N	5:1J:279:ASP:OD1	2.41	0.46
8:5X:98:PHE:HZ	8:5W:76:ASP:O	1.99	0.46
4:2J:66:ALA:HA	4:2J:133:GLU:HA	1.98	0.46
8:5Q:44:LEU:HD11	8:5V:7:LYS:C	2.41	0.46
4:2H:5:GLU:OE2	4:2H:61:ARG:NE	2.49	0.46
8:5P:44:LEU:CA	8:5T:116:HIS:HB2	2.46	0.46
8:5U:49:GLY:O	8:5T:60:ARG:HG2	2.15	0.46
4:2C:105:TRP:HA	4:2C:118:ALA:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5Y:33:SER:HA	8:53:111:ASP:CB	2.45	0.46
11:6E:10:ALA:CB	8:52:45:GLU:OE2	2.64	0.46
11:6E:181:VAL:HB	11:6E:205:VAL:HB	1.98	0.46
8:52:88:VAL:HG12	8:52:106:MET:HB3	1.97	0.46
1:Z4:181:ARG:HH21	1:V4:171:GLU:HG2	1.81	0.46
1:Z4:227:LYS:HG2	1:Z4:380:LEU:HD22	1.97	0.46
1:N4:347:LEU:HD12	1:N4:366:LYS:HD2	1.98	0.46
1:M4:344:ARG:HE	1:M4:367:ARG:HD3	1.81	0.46
1:O4:183:LEU:HD13	1:O4:360:VAL:HG21	1.97	0.46
1:K4:340:THR:OG1	1:L4:111:ARG:NH1	2.46	0.46
1:L4:288:MET:HA	2:A2:6:LYS:HB3	1.98	0.46
1:E4:90:LEU:HB3	1:E4:91:ASN:H	1.62	0.46
1:G4:149:SER:C	1:G4:151:THR:N	2.73	0.46
2:A3:35:ALA:HB2	3:F3:6:LEU:HD13	1.97	0.46
2:C2:44:LEU:HA	2:C2:76:THR:HA	1.98	0.46
1:YO:344:ARG:NH1	1:WO:185:ASP:OD1	2.49	0.46
1:ZO:347:LEU:HB3	1:ZO:366:LYS:HB2	1.97	0.46
1:MO:95:ALA:HA	1:MO:99:GLY:HA3	1.98	0.46
1:MO:298:ALA:HB1	1:MO:303:ALA:HB1	1.97	0.46
1:MO:344:ARG:HE	1:MO:367:ARG:HD3	1.81	0.46
1:OO:100:TYR:O	1:KO:164:ARG:NH1	2.49	0.46
1:DO:310:MET:HE1	1:EO:301:LEU:HD22	1.98	0.46
1:DO:338:GLY:O	1:DO:373:SER:N	2.48	0.46
1:BO:211:ILE:HG21	1:BO:320:MET:HG2	1.98	0.46
2:AN:10:SER:O	2:AN:34:ARG:NH2	2.50	0.46
2:BN:10:SER:O	2:BN:34:ARG:NH2	2.49	0.46
1:CK:263:TYR:OH	1:XJ:305:GLU:OE1	2.25	0.46
1:NJ:215:GLY:HA2	1:NJ:220:THR:HG22	1.98	0.46
1:MJ:257:ALA:HB1	1:MJ:381:LEU:HD11	1.97	0.46
1:LJ:167:ILE:HG21	1:LJ:342:ALA:HB3	1.97	0.46
1:HJ:340:THR:OG1	1:IJ:111:ARG:NH1	2.39	0.46
1:AJ:324:ALA:HB3	1:AJ:327:ALA:HB2	1.97	0.46
1:EJ:143:MET:HG2	1:EJ:160:PRO:HD3	1.98	0.46
1:FJ:149:SER:OG	1:FJ:150:GLU:N	2.49	0.46
1:FJ:286:ARG:HH12	1:FJ:306:PRO:HD2	1.81	0.46
2:AI:44:LEU:HA	2:AI:76:THR:HA	1.98	0.46
1:ZE:183:LEU:HD22	1:ZE:360:VAL:HG21	1.97	0.46
1:AF:277:MET:O	1:AF:317:ALA:N	2.46	0.46
1:BF:151:THR:O	1:BF:151:THR:HG23	2.15	0.46
1:NE:324:ALA:HB3	1:NE:327:ALA:HB2	1.96	0.46
1:TE:189:ASP:HB3	1:TE:192:THR:HG22	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:252:VAL:HG11	2:EC:3:VAL:HG11	1.96	0.46
1:VE:289:LYS:HD2	2:ED:7:HIS:CE1	2.50	0.46
2:CC:44:LEU:HA	2:CC:76:THR:HA	1.98	0.46
2:BC:10:SER:O	2:BC:34:ARG:NH2	2.49	0.46
1:Z9:108:GLU:OE2	1:Z9:111:ARG:NH1	2.48	0.46
1:Z9:265:LEU:HD11	1:Z9:333:GLY:HA2	1.98	0.46
1:N9:181:ARG:NH2	1:E9:170:HIS:HA	2.31	0.46
1:N9:347:LEU:HD12	1:N9:366:LYS:HD2	1.98	0.46
1:P9:167:ILE:HG21	1:P9:342:ALA:HB3	1.98	0.46
1:B9:211:ILE:HG21	1:B9:320:MET:HG2	1.98	0.46
2:C8:10:SER:O	2:C8:34:ARG:NH2	2.49	0.46
8:5S:54:LEU:HD11	8:5Y:5:ASN:N	2.30	0.46
6:4F:57:ASP:OD1	6:4F:58:LYS:N	2.49	0.46
6:4E:57:ASP:OD2	8:5D:25:ALA:O	2.34	0.46
8:5E:41:VAL:CG2	8:5E:54:LEU:HB2	2.44	0.46
4:2H:66:ALA:HA	4:2H:133:GLU:HA	1.98	0.46
6:4D:57:ASP:OD2	8:5C:25:ALA:O	2.33	0.46
6:4D:111:ARG:HG3	6:4D:111:ARG:HH11	1.81	0.46
4:2F:66:ALA:HA	4:2F:133:GLU:HA	1.98	0.46
4:2F:76:GLN:HB3	4:2F:116:ILE:HG22	1.97	0.46
8:5C:9:LEU:HA	8:5C:94:ILE:O	2.17	0.46
8:5C:12:LYS:HZ3	8:5C:94:ILE:HG13	1.81	0.46
4:2D:57:ALA:HB3	4:2D:139:GLY:HA2	1.97	0.46
8:5T:88:VAL:HG12	8:5T:106:MET:HB3	1.97	0.46
11:6A:81:TRP:CE2	8:5Y:44:LEU:HD22	2.50	0.46
9:7C:179:GLU:C	9:7C:181:VAL:H	2.24	0.46
9:7B:179:GLU:C	9:7B:181:VAL:H	2.24	0.46
9:7B:195:TRP:HD1	9:7B:196:PHE:CD1	2.30	0.46
10:8B:833:VAL:HA	10:8B:941:VAL:HG13	1.98	0.46
1:B5:154:LEU:O	1:B5:154:LEU:CD1	2.64	0.45
1:L4:270:ARG:HH12	1:H4:316:ILE:HG21	1.82	0.45
1:D4:310:MET:HE1	1:E4:301:LEU:HD22	1.98	0.45
1:F4:227:LYS:HE2	1:F4:227:LYS:HB2	1.80	0.45
1:G4:135:ASP:HB2	1:B4:106:THR:HG22	1.97	0.45
2:D3:10:SER:O	2:D3:34:ARG:NH2	2.50	0.45
2:A1:2:ASP:HB3	2:AL:32:ARG:HG2	1.97	0.45
2:D2:10:SER:O	2:D2:34:ARG:NH2	2.49	0.45
1:YO:263:TYR:OH	1:ZO:305:GLU:OE1	2.28	0.45
1:WO:348:ARG:O	1:WO:364:ALA:HA	2.15	0.45
1:UO:357:LYS:NZ	1:QJ:352:ASP:OD2	2.38	0.45
1:JO:223:LEU:O	1:JO:227:LYS:NZ	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LO:288:MET:HA	2:AM:6:LYS:HB3	1.98	0.45
1:AO:129:VAL:HG11	1:AO:342:ALA:HB1	1.99	0.45
1:DO:277:MET:HG2	1:DO:330:ILE:HG12	1.98	0.45
1:DO:310:MET:SD	1:EO:286:ARG:NH1	2.89	0.45
1:FO:134:PHE:HB3	1:FO:167:ILE:HB	1.98	0.45
2:AL:2:ASP:HB3	2:AG:32:ARG:HG2	1.98	0.45
2:AL:19:TYR:OH	2:AL:31:ARG:O	2.23	0.45
2:EM:44:LEU:HA	2:EM:76:THR:HA	1.98	0.45
1:ZJ:189:ASP:N	1:ZJ:189:ASP:OD1	2.47	0.45
1:VJ:121:ARG:NH1	1:VJ:343:GLU:OE2	2.48	0.45
1:DJ:256:ASP:HA	1:DJ:259:VAL:HG12	1.97	0.45
2:AI:32:ARG:HG2	2:BI:2:ASP:HB3	1.97	0.45
2:BH:10:SER:O	2:BH:34:ARG:NH2	2.49	0.45
1:YE:223:LEU:O	1:YE:227:LYS:NZ	2.31	0.45
1:ME:121:ARG:NH2	1:ME:343:GLU:OE1	2.49	0.45
1:OE:100:TYR:O	1:KE:164:ARG:NH1	2.49	0.45
1:PE:101:LEU:HD21	1:WE:162:ILE:HD13	1.98	0.45
1:TE:100:TYR:O	1:JE:164:ARG:NH1	2.49	0.45
1:SE:256:ASP:OD1	1:SE:256:ASP:C	2.59	0.45
1:LE:167:ILE:HG21	1:LE:342:ALA:HB3	1.97	0.45
1:LE:288:MET:HA	2:AC:6:LYS:HB3	1.98	0.45
1:LE:338:GLY:HA2	1:LE:374:ASP:HB3	1.97	0.45
1:HE:324:ALA:HB3	1:HE:327:ALA:HB2	1.98	0.45
1:X9:143:MET:HE3	1:Y9:197:ARG:HB2	1.97	0.45
1:X9:338:GLY:O	1:X9:373:SER:N	2.49	0.45
1:Z9:183:LEU:HD22	1:Z9:360:VAL:HG21	1.97	0.45
1:BA:154:LEU:O	1:BA:154:LEU:CD1	2.64	0.45
1:M9:95:ALA:HA	1:M9:99:GLY:HA3	1.98	0.45
1:S9:256:ASP:OD1	1:S9:256:ASP:C	2.59	0.45
1:J9:277:MET:O	1:J9:317:ALA:N	2.41	0.45
1:V9:121:ARG:NH1	1:V9:343:GLU:OE2	2.48	0.45
1:A9:250:ALA:HB3	1:A9:253:ASN:O	2.17	0.45
2:A8:19:TYR:OH	2:A8:31:ARG:O	2.23	0.45
2:D7:10:SER:O	2:D7:34:ARG:NH2	2.50	0.45
2:C7:47:ARG:NH2	2:C7:51:GLY:O	2.50	0.45
8:5S:88:VAL:HG12	8:5S:106:MET:HB3	1.97	0.45
4:2K:89:LEU:O	4:2K:89:LEU:CD2	2.56	0.45
5:1L:225:ILE:HD13	5:1L:244:LEU:HD11	1.98	0.45
8:5F:50:TRP:HH2	8:5D:84:PHE:CE1	2.33	0.45
8:5X:97:ASP:CB	8:5W:72:ASP:HB2	2.30	0.45
8:5L:88:VAL:HG12	8:5L:106:MET:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1I:273:MET:HE2	5:1H:270:TRP:HD1	1.80	0.45
8:5E:12:LYS:HZ3	8:5E:94:ILE:HG13	1.81	0.45
8:5D:33:SER:HA	8:5C:111:ASP:HA	1.96	0.45
6:4B:111:ARG:HH11	6:4B:111:ARG:HG3	1.81	0.45
8:5B:11:ILE:HG22	8:5B:93:VAL:HB	1.98	0.45
9:7A:177:VAL:HG21	9:7A:238:PRO:O	2.16	0.45
11:6A:36:ARG:HE	11:6F:73:LEU:HA	1.81	0.45
11:6A:181:VAL:HB	11:6A:205:VAL:HB	1.98	0.45
9:7C:103:TRP:CZ2	11:6E:41:ALA:HB2	2.52	0.45
9:7C:119:GLU:O	9:7C:130:GLU:N	2.45	0.45
10:8C:214:ASP:O	10:8C:215:LEU:C	2.58	0.45
8:52:61:SER:OG	8:52:62:ALA:N	2.48	0.45
1:X4:162:ILE:H	1:X4:162:ILE:HG13	1.57	0.45
1:Y4:215:GLY:HA2	1:Y4:220:THR:HG22	1.97	0.45
1:M4:149:SER:O	1:M4:150:GLU:C	2.58	0.45
1:M4:190:ILE:HD11	1:J9:101:LEU:HD22	1.99	0.45
1:P4:101:LEU:HD21	1:W4:162:ILE:HD13	1.98	0.45
1:V4:182:LEU:O	1:V4:186:SER:OG	2.31	0.45
1:C4:289:LYS:HD3	1:C4:293:GLY:HA2	1.97	0.45
2:E3:10:SER:O	2:E3:34:ARG:NH2	2.49	0.45
2:C3:44:LEU:HA	2:C3:76:THR:HA	1.98	0.45
2:A2:35:ALA:HB2	3:F2:6:LEU:HD13	1.97	0.45
2:C2:10:SER:O	2:C2:34:ARG:NH2	2.49	0.45
1:ZO:227:LYS:HG2	1:ZO:380:LEU:HD22	1.97	0.45
1:AP:130:GLU:CD	5:1K:47:VAL:CG1	2.84	0.45
1:MO:149:SER:O	1:MO:150:GLU:C	2.58	0.45
1:TO:171:GLU:HA	1:TO:367:ARG:HA	1.98	0.45
1:TO:277:MET:O	1:TO:317:ALA:N	2.46	0.45
1:LO:171:GLU:HG2	1:EO:181:ARG:HH21	1.81	0.45
1:LO:270:ARG:HH12	1:HO:316:ILE:HG21	1.82	0.45
1:AO:162:ILE:HD13	1:CO:101:LEU:HD21	1.97	0.45
1:DO:110:ILE:HD11	1:DO:193:TRP:CE2	2.51	0.45
1:EO:143:MET:HG2	1:EO:160:PRO:HD3	1.98	0.45
1:EO:189:ASP:N	1:EO:189:ASP:OD1	2.47	0.45
1:GO:167:ILE:HG21	1:GO:342:ALA:HB3	1.97	0.45
1:GO:215:GLY:HA2	1:GO:220:THR:HG22	1.98	0.45
2:AN:44:LEU:HA	2:AN:76:THR:HA	1.98	0.45
2:BN:47:ARG:NH2	2:BN:51:GLY:O	2.50	0.45
2:AL:47:ARG:NH2	2:AL:51:GLY:O	2.50	0.45
2:AM:47:ARG:NH2	2:AM:51:GLY:O	2.50	0.45
1:RJ:111:ARG:HG3	1:QJ:138:VAL:HG12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PJ:125:SER:OG	1:PJ:336:GLY:O	2.32	0.45
1:KJ:288:MET:HA	2:EH:6:LYS:HB3	1.98	0.45
1:LJ:223:LEU:O	1:LJ:227:LYS:NZ	2.34	0.45
2:AI:47:ARG:NH2	2:AI:51:GLY:O	2.50	0.45
2:CI:47:ARG:NH2	2:CI:51:GLY:O	2.50	0.45
2:AG:3:VAL:O	1:AE:253:ASN:ND2	2.48	0.45
1:CF:175:MET:HE3	1:CF:361:LEU:HD11	1.98	0.45
1:VE:328:TYR:HB3	1:VE:380:LEU:HD23	1.97	0.45
1:AE:250:ALA:HB3	1:AE:253:ASN:O	2.16	0.45
1:DE:310:MET:HE1	1:EE:301:LEU:HD22	1.98	0.45
2:DD:47:ARG:NH2	2:DD:51:GLY:O	2.50	0.45
2:AC:10:SER:O	2:AC:34:ARG:NH2	2.50	0.45
2:AC:47:ARG:NH2	2:AC:51:GLY:O	2.50	0.45
1:R9:242:ALA:HA	1:R9:382:LYS:O	2.17	0.45
1:P9:101:LEU:HD21	1:W9:162:ILE:HD13	1.98	0.45
1:K9:288:MET:HA	2:E7:6:LYS:HB3	1.98	0.45
1:K9:305:GLU:CB	1:K9:306:PRO:CD	2.92	0.45
1:L9:288:MET:HA	2:A7:6:LYS:HB3	1.98	0.45
1:D9:277:MET:HG2	1:D9:330:ILE:HG12	1.98	0.45
2:A8:10:SER:O	2:A8:34:ARG:NH2	2.50	0.45
2:C7:10:SER:O	2:C7:34:ARG:NH2	2.49	0.45
2:B7:47:ARG:NH2	2:B7:51:GLY:O	2.50	0.45
4:2A:89:LEU:O	4:2A:89:LEU:CD2	2.57	0.45
8:5G:41:VAL:HG13	8:5R:69:VAL:HG11	1.99	0.45
8:5G:134:PHE:HB2	8:5L:84:PHE:CE2	2.44	0.45
8:5M:7:LYS:HA	8:5H:44:LEU:CD1	2.46	0.45
8:5M:61:SER:OG	8:5M:62:ALA:N	2.48	0.45
8:5F:28:ARG:O	8:5E:116:HIS:N	2.49	0.45
8:5L:31:ARG:NH1	8:5K:111:ASP:OD2	2.49	0.45
8:5L:41:VAL:HG13	8:5Q:69:VAL:HG11	1.98	0.45
5:1I:233:GLN:HA	5:1H:266:GLY:HA3	1.97	0.45
7:3E:112:ALA:HB2	7:3D:76:PRO:HB2	1.99	0.45
8:5K:61:SER:OG	8:5K:62:ALA:N	2.48	0.45
5:1H:323:TYR:HA	5:1H:327:VAL:HB	1.98	0.45
4:2H:126:ILE:HG12	4:2H:132:VAL:HG21	1.98	0.45
8:5C:41:VAL:CG2	8:5C:54:LEU:HB2	2.44	0.45
8:5U:88:VAL:HG12	8:5U:106:MET:HB3	1.97	0.45
5:1D:110:LEU:HD11	5:1D:122:LEU:HD11	1.98	0.45
4:2D:126:ILE:HG12	4:2D:132:VAL:HG21	1.98	0.45
8:5T:54:LEU:HD11	8:5Z:4:GLN:CA	2.46	0.45
9:7B:265:LEU:HB3	10:8B:155:GLN:CD	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:6C:29:LEU:HB3	11:6C:33:HIS:O	2.15	0.45
11:6C:196:GLN:HB2	8:50:57:ALA:HB2	1.97	0.45
1:C5:211:ILE:HG21	1:C5:320:MET:HG2	1.97	0.45
1:X4:134:PHE:HB3	1:X4:167:ILE:HB	1.98	0.45
1:Z4:108:GLU:OE2	1:Z4:111:ARG:NH1	2.48	0.45
1:N4:181:ARG:NH2	1:E4:170:HIS:HA	2.31	0.45
1:K4:223:LEU:O	1:K4:227:LYS:NZ	2.32	0.45
1:K4:288:MET:HA	2:E2:6:LYS:HB3	1.98	0.45
1:H4:129:VAL:HG11	1:H4:342:ALA:HB1	1.98	0.45
1:H4:256:ASP:HA	1:H4:259:VAL:HG12	1.97	0.45
1:H4:268:GLU:HG2	1:I4:114:LEU:HG	1.98	0.45
1:A4:250:ALA:HB3	1:A4:253:ASN:O	2.16	0.45
1:F4:263:TYR:OH	1:G4:305:GLU:OE1	2.26	0.45
2:E2:2:ASP:HB3	2:D2:32:ARG:HG2	1.99	0.45
2:E2:47:ARG:NH2	2:E2:51:GLY:O	2.50	0.45
2:B2:10:SER:O	2:B2:34:ARG:NH2	2.49	0.45
1:OO:277:MET:O	1:OO:317:ALA:N	2.45	0.45
1:EO:277:MET:O	1:EO:317:ALA:N	2.44	0.45
1:CO:289:LYS:HD3	1:CO:293:GLY:HA2	1.97	0.45
2:EN:10:SER:O	2:EN:34:ARG:NH2	2.50	0.45
2:AM:35:ALA:HB2	3:FM:6:LEU:HD13	1.97	0.45
2:CM:10:SER:O	2:CM:34:ARG:NH2	2.49	0.45
1:RJ:242:ALA:HA	1:RJ:382:LYS:O	2.17	0.45
1:IJ:129:VAL:HG11	1:IJ:342:ALA:HB1	1.97	0.45
1:GJ:149:SER:C	1:GJ:151:THR:N	2.73	0.45
1:BJ:352:ASP:OD1	1:BJ:352:ASP:N	2.49	0.45
1:CJ:352:ASP:OD2	1:CJ:355:SER:OG	2.33	0.45
2:BI:47:ARG:NH2	2:BI:51:GLY:O	2.50	0.45
2:EH:10:SER:O	2:EH:34:ARG:NH2	2.50	0.45
2:EH:44:LEU:HA	2:EH:76:THR:HA	1.98	0.45
2:BH:44:LEU:HA	2:BH:76:THR:HA	1.98	0.45
1:QE:176:PRO:O	1:QE:361:LEU:HA	2.17	0.45
1:OE:223:LEU:O	1:OE:227:LYS:NZ	2.32	0.45
1:KE:104:PRO:HB3	1:JE:133:SER:HB2	1.98	0.45
1:FE:149:SER:OG	1:FE:150:GLU:N	2.49	0.45
1:FE:167:ILE:HG23	1:FE:370:GLY:HA2	1.98	0.45
2:AD:47:ARG:NH2	2:AD:51:GLY:O	2.50	0.45
2:CC:47:ARG:NH2	2:CC:51:GLY:O	2.50	0.45
2:BC:44:LEU:HA	2:BC:76:THR:HA	1.98	0.45
2:BC:47:ARG:NH2	2:BC:51:GLY:O	2.50	0.45
1:X9:134:PHE:HB3	1:X9:167:ILE:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:171:GLU:OE2	4:2B:120:GLY:O	2.34	0.45
1:K9:227:LYS:HE2	1:K9:227:LYS:HB2	1.78	0.45
1:V9:171:GLU:HA	1:V9:367:ARG:HA	1.97	0.45
1:H9:182:LEU:O	1:H9:186:SER:OG	2.30	0.45
1:G9:150:GLU:HG3	1:C9:91:ASN:CB	2.45	0.45
2:B8:47:ARG:NH2	2:B8:51:GLY:O	2.50	0.45
2:E7:47:ARG:NH2	2:E7:51:GLY:O	2.50	0.45
8:5S:57:ALA:HB2	8:5Y:5:ASN:CG	2.41	0.45
8:5S:61:SER:HG	8:5T:51:ARG:HH12	1.58	0.45
4:2L:76:GLN:HB3	4:2L:116:ILE:HG22	1.97	0.45
4:2I:105:TRP:HA	4:2I:118:ALA:HA	1.97	0.45
8:5D:11:ILE:HG22	8:5D:93:VAL:HB	1.98	0.45
8:5P:44:LEU:HD12	8:5T:115:SER:O	2.16	0.45
4:2E:89:LEU:O	4:2E:89:LEU:CD2	2.57	0.45
8:5U:98:PHE:HZ	8:5T:76:ASP:C	2.25	0.45
5:1C:317:GLU:O	5:1C:321:ALA:N	2.44	0.45
5:1D:323:TYR:HA	5:1D:327:VAL:HB	1.98	0.45
8:5B:9:LEU:HA	8:5B:94:ILE:O	2.16	0.45
9:7A:179:GLU:C	9:7A:181:VAL:H	2.24	0.45
10:8A:215:LEU:HG	10:8A:219:LEU:HD23	1.97	0.45
11:6B:181:VAL:HG12	11:6B:207:GLU:HB3	1.98	0.45
8:5Y:88:VAL:HG12	8:5Y:106:MET:HB3	1.97	0.45
11:6F:181:VAL:HG12	11:6F:207:GLU:HB3	1.98	0.45
9:7B:21:ALA:HA	9:7B:35:THR:HA	1.98	0.45
11:6C:181:VAL:HG12	11:6C:207:GLU:HB3	1.98	0.45
1:X4:143:MET:HE3	1:Y4:197:ARG:HB2	1.97	0.45
1:X4:256:ASP:HB2	1:Y4:287:LYS:HE3	1.98	0.45
1:Z4:215:GLY:HA2	1:Z4:220:THR:HG22	1.99	0.45
1:Z4:265:LEU:HD11	1:Z4:333:GLY:HA2	1.98	0.45
1:S4:382:LYS:HE2	1:S4:384:ALA:HB2	1.98	0.45
1:K4:104:PRO:HB3	1:J4:133:SER:HB2	1.99	0.45
1:J4:256:ASP:OD1	1:J4:257:ALA:N	2.50	0.45
2:E3:44:LEU:HA	2:E3:76:THR:HA	1.98	0.45
2:A3:10:SER:O	2:A3:34:ARG:NH2	2.50	0.45
2:B2:19:TYR:OH	2:B2:31:ARG:O	2.23	0.45
2:B2:47:ARG:NH2	2:B2:51:GLY:O	2.50	0.45
1:CP:175:MET:HE3	1:CP:361:LEU:HD11	1.98	0.45
1:RO:211:ILE:HD12	1:RO:319:ASP:HB2	1.99	0.45
1:MO:121:ARG:NH2	1:MO:343:GLU:OE1	2.49	0.45
1:PO:167:ILE:HG21	1:PO:342:ALA:HB3	1.97	0.45
1:EO:256:ASP:HB2	1:FO:287:LYS:HE3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DN:44:LEU:HA	2:DN:76:THR:HA	1.98	0.45
2:CN:47:ARG:NH2	2:CN:51:GLY:O	2.50	0.45
2:AM:32:ARG:HG2	2:BM:2:ASP:HB3	1.97	0.45
1:ZJ:347:LEU:HB3	1:ZJ:366:LYS:HB2	1.97	0.45
1:MJ:121:ARG:NH2	1:MJ:343:GLU:OE1	2.49	0.45
1:OJ:211:ILE:HG21	1:OJ:320:MET:HG2	1.98	0.45
1:LJ:288:MET:HA	2:AH:6:LYS:HB3	1.98	0.45
1:BJ:171:GLU:HA	1:BJ:367:ARG:HA	1.98	0.45
2:DI:10:SER:O	2:DI:34:ARG:NH2	2.50	0.45
2:AG:47:ARG:NH2	2:AG:51:GLY:O	2.50	0.45
2:AH:10:SER:O	2:AH:34:ARG:NH2	2.50	0.45
2:CH:44:LEU:HA	2:CH:76:THR:HA	1.98	0.45
1:YE:344:ARG:NH1	1:WE:185:ASP:OD1	2.49	0.45
1:ZE:347:LEU:HB3	1:ZE:366:LYS:HB2	1.97	0.45
1:RE:242:ALA:HA	1:RE:382:LYS:O	2.16	0.45
1:OE:90:LEU:HB3	1:OE:91:ASN:H	1.58	0.45
1:VE:288:MET:HE3	1:VE:297:TRP:HE1	1.81	0.45
2:AB:10:SER:O	2:AB:34:ARG:NH2	2.49	0.45
2:AB:47:ARG:NH2	2:AB:51:GLY:O	2.50	0.45
1:Y9:297:TRP:CE2	1:Y9:309:LEU:HD23	2.52	0.45
1:Z9:181:ARG:HH21	1:V9:171:GLU:HG2	1.81	0.45
1:Z9:347:LEU:HB3	1:Z9:366:LYS:HB2	1.97	0.45
1:AA:176:PRO:HG2	1:AA:362:PHE:HB2	1.98	0.45
1:N9:137:LEU:HD21	1:N9:164:ARG:HE	1.81	0.45
1:N9:215:GLY:HA2	1:N9:220:THR:HG22	1.98	0.45
1:L9:171:GLU:HG2	1:E9:181:ARG:HH21	1.81	0.45
1:H9:129:VAL:HG11	1:H9:342:ALA:HB1	1.98	0.45
1:F9:134:PHE:HB3	1:F9:167:ILE:HB	1.98	0.45
2:D8:10:SER:O	2:D8:34:ARG:NH2	2.50	0.45
2:D7:47:ARG:NH2	2:D7:51:GLY:O	2.50	0.45
2:A7:44:LEU:HA	2:A7:76:THR:HA	1.98	0.45
8:5S:7:LYS:HA	8:5N:44:LEU:HG	1.98	0.45
8:5S:32:ILE:O	8:5X:111:ASP:HB2	2.15	0.45
8:5G:61:SER:OG	8:5G:62:ALA:N	2.48	0.45
8:5G:119:GLU:OE2	8:5B:40:ASP:O	2.34	0.45
8:5M:66:GLY:O	8:5M:124:LEU:N	2.46	0.45
5:1K:26:THR:CG2	5:1J:167:PHE:HZ	2.29	0.45
5:1K:78:CYS:HB2	5:1K:350:ILE:HD11	1.99	0.45
8:5X:9:LEU:HD21	8:5W:113:ALA:C	2.42	0.45
8:5R:44:LEU:CA	8:5V:116:HIS:HB2	2.46	0.45
5:1I:26:THR:HG21	5:1H:138:LEU:CD2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4E:110:LEU:HB3	6:4E:111:ARG:HH12	1.80	0.45
8:5E:40:ASP:HA	8:5E:53:LEU:HD13	1.98	0.45
8:5K:66:GLY:O	8:5K:124:LEU:N	2.46	0.45
5:1G:182:PHE:CE1	5:1F:109:ALA:HA	2.51	0.45
6:4D:57:ASP:OD1	6:4D:58:LYS:N	2.49	0.45
8:5D:41:VAL:CG2	8:5D:54:LEU:HB2	2.44	0.45
4:2E:91:LEU:CD1	4:2E:132:VAL:HG23	2.36	0.45
5:1E:78:CYS:HB2	5:1E:350:ILE:HD11	1.99	0.45
8:5O:88:VAL:HG12	8:5O:106:MET:HB3	1.97	0.45
11:6A:65:PHE:HA	11:6A:69:ARG:HH21	1.81	0.45
10:8B:14:GLY:HA2	10:8B:15:GLY:HA2	1.61	0.45
1:C5:175:MET:HE3	1:C5:361:LEU:HD11	1.98	0.45
1:N4:137:LEU:HD21	1:N4:164:ARG:HE	1.81	0.45
1:Q4:338:GLY:O	1:Q4:373:SER:N	2.42	0.45
1:O4:348:ARG:NH2	1:S4:184:ASP:OD2	2.50	0.45
1:J4:122:GLN:HG2	1:J4:123:ILE:HG23	1.97	0.45
1:A4:129:VAL:HG11	1:A4:342:ALA:HB1	1.99	0.45
1:D4:310:MET:SD	1:E4:286:ARG:NH1	2.89	0.45
1:F4:338:GLY:HA2	1:F4:374:ASP:HB3	1.99	0.45
1:G4:136:VAL:HG22	1:G4:165:ILE:HB	1.99	0.45
2:E3:47:ARG:NH2	2:E3:51:GLY:O	2.50	0.45
2:A1:44:LEU:HA	2:A1:76:THR:HA	1.98	0.45
2:D2:47:ARG:NH2	2:D2:51:GLY:O	2.50	0.45
2:A2:10:SER:O	2:A2:34:ARG:NH2	2.50	0.45
1:YO:297:TRP:CE2	1:YO:309:LEU:HD23	2.51	0.45
1:RO:125:SER:OG	1:RO:336:GLY:O	2.27	0.45
1:QO:176:PRO:O	1:QO:361:LEU:HA	2.17	0.45
1:KO:288:MET:HA	2:EM:6:LYS:HB3	1.98	0.45
1:JO:122:GLN:HG2	1:JO:123:ILE:HG23	1.97	0.45
1:JO:256:ASP:OD1	1:JO:257:ALA:N	2.50	0.45
1:JO:285:VAL:HG11	1:JO:309:LEU:HD11	1.98	0.45
1:HO:164:ARG:NH1	1:GJ:100:TYR:O	2.50	0.45
1:GO:136:VAL:HG22	1:GO:165:ILE:HB	1.99	0.45
1:BO:352:ASP:OD1	1:BO:352:ASP:N	2.49	0.45
2:DN:47:ARG:NH2	2:DN:51:GLY:O	2.50	0.45
2:BN:44:LEU:HA	2:BN:76:THR:HA	1.98	0.45
1:ZJ:215:GLY:HA2	1:ZJ:220:THR:HG22	1.99	0.45
1:AK:128:ASN:ND2	5:1I:41:TRP:N	2.39	0.45
1:RJ:125:SER:OG	1:RJ:336:GLY:O	2.27	0.45
1:MJ:95:ALA:HA	1:MJ:99:GLY:HA3	1.98	0.45
1:OJ:100:TYR:O	1:KJ:164:ARG:NH1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HJ:183:LEU:HD22	1:HJ:360:VAL:HG21	1.98	0.45
2:EI:2:ASP:HB3	2:DI:32:ARG:HG2	1.99	0.45
2:EI:47:ARG:NH2	2:EI:51:GLY:O	2.50	0.45
2:DH:47:ARG:NH2	2:DH:51:GLY:O	2.50	0.45
1:CF:136:VAL:HG22	1:CF:165:ILE:HB	1.98	0.45
1:AF:121:ARG:NH2	1:AF:343:GLU:OE1	2.43	0.45
1:RE:352:ASP:OD1	1:RE:352:ASP:N	2.49	0.45
1:TE:183:LEU:HD22	1:TE:360:VAL:HG21	1.97	0.45
1:SE:289:LYS:HD2	2:BD:7:HIS:CE1	2.52	0.45
1:KE:281:THR:HA	1:KE:323:ILE:HD11	1.98	0.45
1:JE:256:ASP:OD1	1:JE:257:ALA:N	2.50	0.45
1:HE:357:LYS:NZ	1:DE:352:ASP:OD2	2.46	0.45
1:DE:110:ILE:HD11	1:DE:193:TRP:CE2	2.51	0.45
2:BD:47:ARG:NH2	2:BD:51:GLY:O	2.50	0.45
2:DC:47:ARG:NH2	2:DC:51:GLY:O	2.50	0.45
2:AC:19:TYR:OH	2:AC:31:ARG:O	2.22	0.45
2:AC:32:ARG:HG2	2:BC:2:ASP:HB3	1.97	0.45
1:CA:129:VAL:HG11	1:CA:342:ALA:HB1	1.99	0.45
1:Y9:215:GLY:HA2	1:Y9:220:THR:HG22	1.97	0.45
1:Q9:176:PRO:O	1:Q9:361:LEU:HA	2.17	0.45
1:J9:285:VAL:HG11	1:J9:309:LEU:HD11	1.98	0.45
1:F9:167:ILE:HG23	1:F9:370:GLY:HA2	1.98	0.45
5:1B:110:LEU:HD11	5:1B:122:LEU:HD11	1.99	0.45
5:1B:270:TRP:HD1	5:1C:273:MET:HE2	1.81	0.45
8:5S:32:ILE:O	8:5X:111:ASP:CA	2.65	0.45
4:2K:86:VAL:HG23	4:2K:107:LEU:HD13	1.95	0.45
5:1K:32:MET:HG3	5:1J:163:ARG:NE	2.31	0.45
7:3F:37:ALA:HB2	7:3F:63:VAL:HG12	1.98	0.45
8:5F:40:ASP:HA	8:5F:53:LEU:HD13	1.98	0.45
8:5X:61:SER:OG	8:5X:62:ALA:N	2.48	0.45
6:4E:82:LYS:O	6:4E:86:ALA:N	2.46	0.45
8:5W:57:ALA:HB1	8:51:117:ASN:O	2.17	0.45
8:5P:51:ARG:HB2	8:5O:59:VAL:HG22	1.98	0.45
4:2E:108:VAL:HG13	4:2D:68:THR:HG21	1.99	0.45
9:7A:58:ALA:HA	10:8A:961:ALA:HB2	1.98	0.45
9:7A:103:TRP:CZ2	11:6A:41:ALA:HB2	2.52	0.45
10:8A:835:ALA:HB3	10:8A:942:VAL:HA	1.98	0.45
8:52:114:GLY:HA3	8:53:9:LEU:CD2	2.45	0.45
1:O4:277:MET:O	1:O4:317:ALA:N	2.45	0.45
1:H4:324:ALA:HB3	1:H4:327:ALA:HB2	1.98	0.45
1:E4:162:ILE:H	1:E4:162:ILE:HG13	1.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G4:144:GLY:H	1:G4:158:ALA:HB3	1.80	0.45
1:XO:256:ASP:HB2	1:YO:287:LYS:HE3	1.98	0.45
1:ZO:171:GLU:HA	1:ZO:367:ARG:HA	1.99	0.45
1:ZO:181:ARG:HH21	1:VO:171:GLU:HG2	1.81	0.45
1:VO:288:MET:HE3	1:VO:297:TRP:HE1	1.81	0.45
1:EO:162:ILE:H	1:EO:162:ILE:HG13	1.56	0.45
1:FO:126:VAL:HG12	1:FO:341:ILE:HB	1.99	0.45
2:AL:44:LEU:HA	2:AL:76:THR:HA	1.98	0.45
2:DM:10:SER:O	2:DM:34:ARG:NH2	2.50	0.45
2:AM:10:SER:O	2:AM:34:ARG:NH2	2.49	0.45
2:BM:10:SER:O	2:BM:34:ARG:NH2	2.49	0.45
1:OJ:183:LEU:HD13	1:OJ:360:VAL:HG21	1.97	0.45
1:LJ:270:ARG:HH12	1:HJ:316:ILE:HG21	1.82	0.45
1:BJ:110:ILE:HD11	1:BJ:193:TRP:CE2	2.51	0.45
2:EI:10:SER:O	2:EI:34:ARG:NH2	2.50	0.45
2:EI:66:VAL:HA	2:AI:15:ALA:HB3	1.99	0.45
2:AI:10:SER:O	2:AI:34:ARG:NH2	2.50	0.45
1:ZE:171:GLU:HA	1:ZE:367:ARG:HA	1.99	0.45
1:RE:211:ILE:HD12	1:RE:319:ASP:HB2	1.99	0.45
1:ME:95:ALA:HA	1:ME:99:GLY:HA3	1.98	0.45
1:KE:183:LEU:HD22	1:KE:360:VAL:HG21	1.98	0.45
2:EC:10:SER:O	2:EC:34:ARG:NH2	2.50	0.45
2:CC:10:SER:O	2:CC:34:ARG:NH2	2.49	0.45
1:N9:104:PRO:HB3	1:M9:133:SER:HB2	1.99	0.45
1:Q9:324:ALA:HB3	1:Q9:327:ALA:HB2	1.98	0.45
1:U9:269:TYR:OH	1:U9:374:ASP:OD2	2.27	0.45
1:T9:171:GLU:HA	1:T9:367:ARG:HA	1.98	0.45
1:S9:289:LYS:HD2	2:B8:7:HIS:CE1	2.52	0.45
1:L9:167:ILE:HG21	1:L9:342:ALA:HB3	1.97	0.45
1:L9:270:ARG:HH12	1:H9:316:ILE:HG21	1.82	0.45
1:B9:110:ILE:HD11	1:B9:193:TRP:CE2	2.51	0.45
2:D8:47:ARG:NH2	2:D8:51:GLY:O	2.50	0.45
2:E7:44:LEU:HA	2:E7:76:THR:HA	1.98	0.45
4:2A:105:TRP:HA	4:2A:118:ALA:HA	1.97	0.45
5:1A:78:CYS:HB2	5:1A:350:ILE:HD11	1.99	0.45
8:5A:57:ALA:HB1	8:5G:5:ASN:OD1	2.17	0.45
8:5S:76:ASP:C	8:5T:98:PHE:HZ	2.25	0.45
5:1I:323:TYR:HA	5:1I:327:VAL:HB	1.99	0.45
6:4E:72:ILE:HG21	7:3E:50:GLU:HG3	1.99	0.45
8:5E:9:LEU:HB3	8:5E:96:PRO:HD3	1.99	0.45
8:5W:32:ILE:N	8:5V:112:TYR:O	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1G:26:THR:HG23	5:1F:167:PHE:HZ	1.81	0.45
7:3D:37:ALA:HB2	7:3D:63:VAL:HG12	1.98	0.45
8:5D:9:LEU:HA	8:5D:94:ILE:O	2.16	0.45
5:1F:299:VAL:HG12	5:1F:322:PHE:HE1	1.82	0.45
8:5N:88:VAL:HG12	8:5N:106:MET:HB3	1.97	0.45
9:7C:21:ALA:HA	9:7C:35:THR:HA	1.98	0.45
11:6E:181:VAL:HG12	11:6E:207:GLU:HB3	1.98	0.45
10:8B:213:PRO:HB3	10:8B:217:ARG:NE	2.32	0.45
11:6C:10:ALA:CB	8:50:45:GLU:OE2	2.64	0.45
8:50:113:ALA:HB2	8:51:31:ARG:HG3	1.99	0.45
1:X4:171:GLU:HA	1:X4:367:ARG:HA	1.97	0.45
1:Y4:352:ASP:HB3	1:W4:354:PHE:HD1	1.81	0.45
1:R4:242:ALA:HA	1:R4:382:LYS:O	2.17	0.45
1:O4:90:LEU:HB3	1:O4:91:ASN:H	1.58	0.45
1:O4:121:ARG:NH2	1:O4:343:GLU:OE1	2.41	0.45
1:O4:211:ILE:HG21	1:O4:320:MET:HG2	1.98	0.45
1:A4:182:LEU:O	1:A4:186:SER:HB3	2.17	0.45
1:E4:277:MET:O	1:E4:317:ALA:N	2.44	0.45
1:F4:134:PHE:HB3	1:F4:167:ILE:HB	1.98	0.45
1:B4:211:ILE:HG21	1:B4:320:MET:HG2	1.98	0.45
2:C3:19:TYR:OH	2:C3:31:ARG:O	2.23	0.45
2:B3:47:ARG:NH2	2:B3:51:GLY:O	2.50	0.45
2:A1:10:SER:O	2:A1:34:ARG:NH2	2.49	0.45
2:A1:47:ARG:NH2	2:A1:51:GLY:O	2.50	0.45
2:E2:66:VAL:HA	2:A2:15:ALA:HB3	1.99	0.45
2:A2:44:LEU:HA	2:A2:76:THR:HA	1.98	0.45
1:AP:176:PRO:HG2	1:AP:362:PHE:HB2	1.98	0.45
1:AP:217:ASP:HA	4:2I:125:MET:HE3	1.99	0.45
1:BP:191:GLU:OE1	5:1L:47:VAL:HG11	2.17	0.45
1:UO:172:LEU:HD11	1:TO:145:SER:HB3	1.99	0.45
1:KO:104:PRO:HB3	1:JO:133:SER:HB2	1.99	0.45
2:EN:44:LEU:HA	2:EN:76:THR:HA	1.98	0.45
2:DM:47:ARG:NH2	2:DM:51:GLY:O	2.50	0.45
1:CK:175:MET:HE3	1:CK:361:LEU:HD11	1.99	0.45
1:XJ:256:ASP:HB2	1:YJ:287:LYS:HE3	1.98	0.45
1:YJ:223:LEU:O	1:YJ:227:LYS:NZ	2.31	0.45
1:YJ:352:ASP:HB3	1:WJ:354:PHE:HD1	1.81	0.45
1:NJ:104:PRO:HB3	1:MJ:133:SER:HB2	1.99	0.45
1:MJ:344:ARG:HE	1:MJ:367:ARG:HD3	1.81	0.45
1:TJ:100:TYR:O	1:JJ:164:ARG:NH1	2.49	0.45
1:TJ:171:GLU:HA	1:TJ:367:ARG:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KJ:104:PRO:HB3	1:JJ:133:SER:HB2	1.99	0.45
1:KJ:281:THR:HA	1:KJ:323:ILE:HD11	1.98	0.45
1:JJ:343:GLU:HB3	1:JJ:368:VAL:HG23	1.97	0.45
1:AJ:250:ALA:HB3	1:AJ:253:ASN:O	2.16	0.45
1:DJ:110:ILE:HD11	1:DJ:193:TRP:CE2	2.51	0.45
2:BH:47:ARG:NH2	2:BH:51:GLY:O	2.50	0.45
1:YE:297:TRP:CE2	1:YE:309:LEU:HD23	2.51	0.45
1:NE:104:PRO:HB3	1:ME:133:SER:HB2	1.99	0.45
1:NE:347:LEU:HD12	1:NE:366:LYS:HD2	1.98	0.45
1:TE:223:LEU:O	1:TE:227:LYS:NZ	2.31	0.45
1:SE:382:LYS:HE2	1:SE:384:ALA:HB2	1.98	0.45
1:KE:256:ASP:HA	1:KE:259:VAL:HG12	1.99	0.45
1:AE:129:VAL:HG11	1:AE:342:ALA:HB1	1.99	0.45
1:AE:182:LEU:O	1:AE:186:SER:HB3	2.17	0.45
1:DE:143:MET:HG2	1:DE:160:PRO:HD3	1.99	0.45
2:ED:10:SER:O	2:ED:34:ARG:NH2	2.50	0.45
2:AD:32:ARG:HG2	2:BD:2:ASP:HB3	1.97	0.45
2:CD:44:LEU:HA	2:CD:76:THR:HA	1.98	0.45
2:DC:44:LEU:HA	2:DC:76:THR:HA	1.98	0.45
1:BA:272:ASN:N	1:BA:272:ASN:OD1	2.50	0.45
1:O9:100:TYR:O	1:K9:164:ARG:NH1	2.49	0.45
1:T9:277:MET:O	1:T9:317:ALA:N	2.46	0.45
1:A9:182:LEU:O	1:A9:186:SER:HB3	2.17	0.45
1:G9:136:VAL:HG22	1:G9:165:ILE:HB	1.99	0.45
2:A8:44:LEU:HA	2:A8:76:THR:HA	1.98	0.45
2:A7:10:SER:O	2:A7:34:ARG:NH2	2.49	0.45
2:B7:44:LEU:HA	2:B7:76:THR:HA	1.98	0.45
5:1B:323:TYR:HA	5:1B:327:VAL:HB	1.98	0.45
8:5A:12:LYS:HZ3	8:5A:94:ILE:HG13	1.82	0.45
8:5G:31:ARG:NH1	8:5L:111:ASP:OD2	2.50	0.45
8:5X:34:PHE:O	8:5W:109:SER:HA	2.17	0.45
4:2I:190:VAL:HG12	5:1H:244:LEU:HD23	1.97	0.45
7:3E:112:ALA:CB	7:3D:76:PRO:HB2	2.47	0.45
7:3C:37:ALA:HB2	7:3C:63:VAL:HG12	1.98	0.45
8:5C:53:LEU:HG	8:5B:106:MET:HE3	1.99	0.45
8:5O:44:LEU:O	8:5T:7:LYS:CE	2.65	0.45
8:5B:94:ILE:HA	8:5B:100:ILE:HA	1.99	0.45
8:5H:88:VAL:HG12	8:5H:106:MET:HB3	1.97	0.45
10:8A:14:GLY:HA2	10:8A:15:GLY:HA2	1.61	0.45
10:8A:228:THR:O	10:8A:228:THR:HG22	2.16	0.45
11:6A:33:HIS:HB3	11:6F:209:ARG:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:7B:58:ALA:HA	10:8B:961:ALA:HB2	1.98	0.45
11:6D:181:VAL:HG12	11:6D:207:GLU:HB3	1.98	0.45
1:P4:265:LEU:HA	1:P4:379:LYS:HG3	1.98	0.45
1:S4:256:ASP:OD1	1:S4:256:ASP:C	2.59	0.45
1:K4:256:ASP:HA	1:K4:259:VAL:HG12	1.99	0.45
1:V4:288:MET:HE3	1:V4:297:TRP:HE1	1.81	0.45
1:D4:277:MET:HG2	1:D4:330:ILE:HG12	1.98	0.45
1:F4:126:VAL:HG12	1:F4:341:ILE:HB	1.99	0.45
2:D3:44:LEU:HA	2:D3:76:THR:HA	1.98	0.45
2:D3:47:ARG:NH2	2:D3:51:GLY:O	2.50	0.45
2:C3:10:SER:O	2:C3:34:ARG:NH2	2.49	0.45
1:ZO:139:ASP:HB3	1:ZO:162:ILE:HG22	1.99	0.45
1:NO:104:PRO:HB3	1:MO:133:SER:HB2	1.99	0.45
1:NO:215:GLY:HA2	1:NO:220:THR:HG22	1.98	0.45
1:QO:324:ALA:HB3	1:QO:327:ALA:HB2	1.98	0.45
1:OO:211:ILE:HG21	1:OO:320:MET:HG2	1.98	0.45
1:VO:171:GLU:HA	1:VO:367:ARG:HA	1.97	0.45
1:AO:250:ALA:HB3	1:AO:253:ASN:O	2.16	0.45
1:FO:167:ILE:HG23	1:FO:370:GLY:HA2	1.98	0.45
2:EN:47:ARG:NH2	2:EN:51:GLY:O	2.50	0.45
2:EN:66:VAL:HA	2:AN:15:ALA:HB3	1.99	0.45
2:CN:10:SER:O	2:CN:34:ARG:NH2	2.49	0.45
2:EM:47:ARG:NH2	2:EM:51:GLY:O	2.50	0.45
2:BM:47:ARG:NH2	2:BM:51:GLY:O	2.50	0.45
1:CK:136:VAL:HG22	1:CK:165:ILE:HB	1.98	0.45
1:XJ:134:PHE:HB3	1:XJ:167:ILE:HB	1.98	0.45
1:ZJ:181:ARG:HH21	1:VJ:171:GLU:HG2	1.81	0.45
1:JJ:256:ASP:OD1	1:JJ:257:ALA:N	2.50	0.45
1:VJ:288:MET:HE3	1:VJ:297:TRP:HE1	1.81	0.45
1:DJ:310:MET:SD	1:EJ:286:ARG:NH1	2.89	0.45
1:FJ:134:PHE:HB3	1:FJ:167:ILE:HB	1.98	0.45
2:AH:19:TYR:OH	2:AH:31:ARG:O	2.23	0.45
1:NE:215:GLY:HA2	1:NE:220:THR:HG22	1.98	0.45
1:ME:136:VAL:HG23	1:ME:165:ILE:HB	1.99	0.45
1:QE:324:ALA:HB3	1:QE:327:ALA:HB2	1.98	0.45
1:JE:285:VAL:HG11	1:JE:309:LEU:HD11	1.98	0.45
1:LE:182:LEU:O	1:LE:186:SER:OG	2.29	0.45
1:FE:338:GLY:HA2	1:FE:374:ASP:HB3	1.99	0.45
1:GE:215:GLY:HA2	1:GE:220:THR:HG22	1.98	0.45
2:CD:47:ARG:NH2	2:CD:51:GLY:O	2.50	0.45
1:M9:344:ARG:HE	1:M9:367:ARG:HD3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T9:100:TYR:O	1:J9:164:ARG:NH1	2.49	0.45
1:V9:289:LYS:HD2	2:E8:7:HIS:CE1	2.50	0.45
1:L9:288:MET:HE3	1:L9:297:TRP:HE1	1.82	0.45
1:D9:310:MET:SD	1:E9:286:ARG:NH1	2.89	0.45
1:G9:167:ILE:HG21	1:G9:342:ALA:HB3	1.97	0.45
2:E8:2:ASP:HB3	2:D8:32:ARG:HG2	1.99	0.45
2:A7:32:ARG:HG2	2:B7:2:ASP:HB3	1.97	0.45
4:2B:58:LEU:HA	4:2B:140:PHE:HD2	1.82	0.45
8:5A:50:TRP:CE3	8:5F:132:LEU:HD13	2.51	0.45
8:5A:77:GLU:HA	8:5B:98:PHE:CZ	2.52	0.45
5:1L:110:LEU:HD11	5:1L:122:LEU:HD11	1.98	0.45
8:5X:44:LEU:HD12	8:51:116:HIS:CA	2.38	0.45
8:5R:32:ILE:HD11	8:5R:62:ALA:HB1	1.99	0.45
5:1I:26:THR:HG21	5:1H:138:LEU:HD22	1.98	0.45
8:5W:32:ILE:HD11	8:5W:62:ALA:HB1	1.99	0.45
8:5W:44:LEU:HD12	8:50:116:HIS:HA	1.98	0.45
6:4D:37:PRO:HB2	7:3C:77:GLU:HG2	1.98	0.45
8:5V:61:SER:OG	8:5V:62:ALA:N	2.48	0.45
4:2F:58:LEU:HA	4:2F:140:PHE:HD2	1.82	0.45
4:2F:83:VAL:HG12	4:2F:138:ALA:HB2	1.99	0.45
5:1D:225:ILE:HD13	5:1D:244:LEU:HD11	1.98	0.45
4:2D:66:ALA:HA	4:2D:133:GLU:HA	1.98	0.45
6:4B:72:ILE:HG21	7:3B:50:GLU:HG3	1.99	0.45
9:7A:21:ALA:HA	9:7A:35:THR:HA	1.98	0.45
11:6B:11:ASN:ND2	11:6B:54:ARG:HG2	2.32	0.45
10:8B:835:ALA:HB3	10:8B:942:VAL:HA	1.98	0.45
11:6C:46:HIS:HA	11:6C:206:VAL:HA	1.97	0.45
1:Y4:297:TRP:CE2	1:Y4:309:LEU:HD23	2.51	0.45
1:Y4:322:ASP:N	1:Y4:322:ASP:OD1	2.49	0.45
1:Z4:139:ASP:HB3	1:Z4:162:ILE:HG22	1.99	0.45
1:A5:281:THR:HG23	1:A5:323:ILE:HD11	1.99	0.45
1:N4:352:ASP:OD2	1:L4:357:LYS:NZ	2.39	0.45
1:D4:256:ASP:HA	1:D4:259:VAL:HG12	1.97	0.45
1:E4:143:MET:HG2	1:E4:160:PRO:HD3	1.98	0.45
2:A3:44:LEU:HA	2:A3:76:THR:HA	1.98	0.45
2:B3:10:SER:O	2:B3:34:ARG:NH2	2.49	0.45
1:YO:121:ARG:NH1	1:YO:343:GLU:OE2	2.50	0.45
1:TO:100:TYR:O	1:JO:164:ARG:NH1	2.49	0.45
1:SO:289:LYS:HD2	2:BN:7:HIS:CE1	2.52	0.45
1:KO:256:ASP:HA	1:KO:259:VAL:HG12	1.99	0.45
1:FO:149:SER:OG	1:FO:150:GLU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DN:10:SER:O	2:DN:34:ARG:NH2	2.50	0.45
2:AN:32:ARG:HG2	2:BN:2:ASP:HB3	1.97	0.45
2:CN:44:LEU:HA	2:CN:76:THR:HA	1.98	0.45
2:EM:10:SER:O	2:EM:34:ARG:NH2	2.50	0.45
2:CM:44:LEU:HA	2:CM:76:THR:HA	1.98	0.45
1:ZJ:139:ASP:HB3	1:ZJ:162:ILE:HG22	1.99	0.45
1:ZJ:150:GLU:HA	1:ZJ:154:LEU:HB3	1.99	0.45
1:AK:177:LYS:HG3	1:AK:361:LEU:CD1	2.42	0.45
1:NJ:181:ARG:NH2	1:EJ:170:HIS:HA	2.31	0.45
1:RJ:90:LEU:HB3	1:RJ:91:ASN:H	1.65	0.45
1:QJ:176:PRO:O	1:QJ:361:LEU:HA	2.17	0.45
1:PJ:101:LEU:HD21	1:WJ:162:ILE:HD13	1.98	0.45
1:KJ:183:LEU:HD22	1:KJ:360:VAL:HG21	1.98	0.45
1:LJ:288:MET:HE3	1:LJ:297:TRP:HE1	1.82	0.45
1:IJ:162:ILE:HD13	1:ME:101:LEU:HD21	1.98	0.45
2:AG:10:SER:O	2:AG:34:ARG:NH2	2.49	0.45
2:EH:47:ARG:NH2	2:EH:51:GLY:O	2.50	0.45
1:NE:137:LEU:HD21	1:NE:164:ARG:HE	1.81	0.45
1:LE:171:GLU:HG2	1:EE:181:ARG:HH21	1.81	0.45
1:LE:288:MET:HE3	1:LE:297:TRP:HE1	1.82	0.45
1:IE:162:ILE:HD13	1:M9:101:LEU:HD21	1.97	0.45
1:GE:322:ASP:N	1:GE:322:ASP:OD1	2.50	0.45
1:BE:110:ILE:HD11	1:BE:193:TRP:CE2	2.51	0.45
2:ED:2:ASP:HB3	2:DD:32:ARG:HG2	1.99	0.45
2:BD:10:SER:O	2:BD:34:ARG:NH2	2.49	0.45
1:X9:285:VAL:HG13	1:X9:288:MET:HE2	1.99	0.45
1:M9:136:VAL:HG23	1:M9:165:ILE:HB	1.99	0.45
1:S9:382:LYS:HE2	1:S9:384:ALA:HB2	1.98	0.45
1:K9:256:ASP:HA	1:K9:259:VAL:HG12	1.99	0.45
1:J9:256:ASP:OD1	1:J9:257:ALA:N	2.50	0.45
1:E9:143:MET:HG2	1:E9:160:PRO:HD3	1.98	0.45
1:F9:338:GLY:HA2	1:F9:374:ASP:HB3	1.99	0.45
1:B9:352:ASP:OD1	1:B9:352:ASP:N	2.49	0.45
1:C9:139:ASP:OD1	1:C9:139:ASP:N	2.48	0.45
2:E8:10:SER:O	2:E8:34:ARG:NH2	2.50	0.45
2:C8:47:ARG:NH2	2:C8:51:GLY:O	2.50	0.45
2:A6:44:LEU:HA	2:A6:76:THR:HA	1.98	0.45
2:E7:66:VAL:HA	2:A7:15:ALA:HB3	1.99	0.45
2:B7:10:SER:O	2:B7:34:ARG:NH2	2.49	0.45
5:1A:284:GLU:HG3	5:1L:280:MET:HE3	1.98	0.45
8:5A:35:ASN:O	8:5F:83:PHE:HZ	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5S:134:PHE:CD2	8:5X:80:ARG:CZ	3.00	0.45
8:5M:9:LEU:HD21	8:5R:113:ALA:C	2.41	0.45
8:5M:59:VAL:HG22	8:5N:51:ARG:HB2	1.98	0.45
5:1L:323:TYR:HA	5:1L:327:VAL:HB	1.98	0.45
4:2L:66:ALA:HA	4:2L:133:GLU:HA	1.98	0.45
8:5X:32:ILE:HD11	8:5X:62:ALA:HB1	1.99	0.45
8:5R:34:PHE:HD2	8:5Q:110:ILE:HG13	1.81	0.45
8:5E:11:ILE:HG22	8:5E:93:VAL:HB	1.98	0.45
6:4C:82:LYS:O	6:4C:86:ALA:N	2.46	0.45
8:5C:27:LEU:O	8:5C:27:LEU:CD1	2.61	0.45
4:2D:83:VAL:HG12	4:2D:138:ALA:HB2	1.99	0.45
8:5T:61:SER:OG	8:5T:62:ALA:N	2.48	0.45
11:6B:72:GLN:CG	11:6C:24:THR:HG21	2.46	0.45
9:7C:57:LYS:HD2	9:7C:71:GLU:HB2	1.98	0.45
10:8B:820:ARG:HH12	10:8B:827:ARG:HE	1.64	0.45
1:X4:285:VAL:HG13	1:X4:288:MET:HE2	1.99	0.45
1:Y4:121:ARG:NH1	1:Y4:343:GLU:OE2	2.50	0.45
1:Y4:344:ARG:NH1	1:W4:185:ASP:OD1	2.49	0.45
1:N4:104:PRO:HB3	1:M4:133:SER:HB2	1.99	0.45
1:S4:289:LYS:HD2	2:B3:7:HIS:CE1	2.52	0.45
1:F4:297:TRP:CE2	1:F4:309:LEU:HD23	2.52	0.45
1:G4:215:GLY:HA2	1:G4:220:THR:HG22	1.98	0.45
1:G4:348:ARG:HH22	1:D9:180:GLN:HG2	1.81	0.45
2:A1:32:ARG:HG2	2:A6:2:ASP:HB3	1.98	0.45
2:A1:66:VAL:HA	2:A6:15:ALA:HB3	1.98	0.45
2:C2:47:ARG:NH2	2:C2:51:GLY:O	2.50	0.45
1:XO:219:PRO:HG3	1:XO:369:GLY:HA2	1.99	0.45
1:ZO:150:GLU:HA	1:ZO:154:LEU:HB3	1.99	0.45
1:NO:137:LEU:HD21	1:NO:164:ARG:HE	1.81	0.45
1:UO:181:ARG:HG3	1:QJ:367:ARG:NH2	2.31	0.45
1:TO:223:LEU:O	1:TO:227:LYS:NZ	2.31	0.45
1:KO:149:SER:HB2	1:KO:152:ALA:HB2	1.99	0.45
1:EO:132:THR:HG21	1:FO:102:VAL:HG22	1.99	0.45
1:EO:265:LEU:HD22	1:EO:270:ARG:HG3	1.98	0.45
1:EO:329:ALA:HB3	1:EO:383:PHE:HE2	1.82	0.45
1:CO:281:THR:HG23	1:CO:323:ILE:HD11	1.98	0.45
2:EM:66:VAL:HA	2:AM:15:ALA:HB3	1.99	0.45
2:AM:44:LEU:HA	2:AM:76:THR:HA	1.98	0.45
2:CM:47:ARG:NH2	2:CM:51:GLY:O	2.50	0.45
1:YJ:121:ARG:NH1	1:YJ:343:GLU:OE2	2.50	0.45
1:ZJ:139:ASP:OD1	1:ZJ:139:ASP:N	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NJ:137:LEU:HD21	1:NJ:164:ARG:HE	1.81	0.45
1:MJ:136:VAL:HG23	1:MJ:165:ILE:HB	1.99	0.45
1:MJ:290:ASP:OD1	1:MJ:290:ASP:N	2.49	0.45
1:HJ:164:ARG:NH1	1:GE:100:TYR:O	2.50	0.45
1:GJ:136:VAL:HG22	1:GJ:165:ILE:HB	1.99	0.45
1:GJ:322:ASP:N	1:GJ:322:ASP:OD1	2.50	0.45
2:BI:19:TYR:OH	2:BI:31:ARG:O	2.23	0.45
2:AH:47:ARG:NH2	2:AH:51:GLY:O	2.50	0.45
1:YE:215:GLY:HA2	1:YE:220:THR:HG22	1.97	0.45
1:ZE:215:GLY:HA2	1:ZE:220:THR:HG22	1.99	0.45
1:ZE:265:LEU:HD11	1:ZE:333:GLY:HA2	1.98	0.45
1:BF:177:LYS:HD2	1:BF:359:HIS:CG	2.52	0.45
1:KE:288:MET:HA	2:EC:6:LYS:HB3	1.98	0.45
1:IE:354:PHE:HD1	1:F9:352:ASP:HB3	1.82	0.45
1:EE:143:MET:HG2	1:EE:160:PRO:HD3	1.98	0.45
1:FE:286:ARG:HH12	1:FE:306:PRO:HD2	1.81	0.45
1:CE:281:THR:HG23	1:CE:323:ILE:HD11	1.98	0.45
2:DD:10:SER:O	2:DD:34:ARG:NH2	2.50	0.45
2:AD:10:SER:O	2:AD:34:ARG:NH2	2.50	0.45
2:EC:2:ASP:HB3	2:DC:32:ARG:HG2	1.99	0.45
2:EC:47:ARG:NH2	2:EC:51:GLY:O	2.50	0.45
1:Q9:322:ASP:OD1	1:Q9:322:ASP:N	2.45	0.45
1:O9:348:ARG:NH2	1:S9:184:ASP:OD2	2.50	0.45
1:D9:310:MET:HE1	1:E9:301:LEU:HD22	1.98	0.45
1:F9:297:TRP:CE2	1:F9:309:LEU:HD23	2.52	0.45
1:G9:215:GLY:HA2	1:G9:220:THR:HG22	1.98	0.45
2:A8:47:ARG:NH2	2:A8:51:GLY:O	2.50	0.45
2:A6:10:SER:O	2:A6:34:ARG:NH2	2.49	0.45
2:E7:2:ASP:HB3	2:D7:32:ARG:HG2	1.99	0.45
4:2A:86:VAL:HG23	4:2A:107:LEU:HD13	1.95	0.45
5:1A:323:TYR:HA	5:1A:327:VAL:HB	1.99	0.45
4:2B:83:VAL:HG12	4:2B:138:ALA:HB2	1.99	0.45
4:2B:103:ALA:HB3	4:2B:105:TRP:HD1	1.82	0.45
7:3A:54:LEU:HD23	7:3A:111:VAL:HA	1.99	0.45
8:5A:9:LEU:HA	8:5A:94:ILE:O	2.17	0.45
8:5A:11:ILE:HG22	8:5A:93:VAL:HB	1.98	0.45
8:5S:97:ASP:HB3	8:5X:72:ASP:CB	2.40	0.45
8:5S:116:HIS:HA	8:5O:44:LEU:HB2	1.99	0.45
8:5F:9:LEU:HB3	8:5F:96:PRO:HD3	1.99	0.45
8:5F:11:ILE:HG22	8:5F:93:VAL:HB	1.99	0.45
8:5F:12:LYS:HG2	8:5F:92:GLN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5F:50:TRP:CG	8:5E:131:ALA:HA	2.51	0.45
4:2I:153:GLN:HE21	4:2H:45:ALA:CB	2.30	0.45
8:5Q:25:ALA:HB1	8:5Q:71:LYS:HE3	1.99	0.45
8:5Q:57:ALA:O	8:5V:117:ASN:O	2.35	0.45
4:2G:188:ARG:O	5:1F:240:GLN:NE2	2.49	0.45
5:1H:225:ILE:HD13	5:1H:244:LEU:HD11	1.98	0.45
4:2H:83:VAL:HG12	4:2H:138:ALA:HB2	1.99	0.45
8:5P:25:ALA:HB1	8:5P:71:LYS:HE3	1.99	0.45
7:3B:37:ALA:HB2	7:3B:63:VAL:HG12	1.98	0.45
7:3B:54:LEU:HD23	7:3B:111:VAL:HA	1.99	0.45
8:5B:57:ALA:HB1	8:5H:5:ASN:OD1	2.17	0.45
8:52:25:ALA:HB1	8:52:71:LYS:HE3	1.99	0.45
8:53:61:SER:OG	8:53:62:ALA:N	2.48	0.45
8:51:32:ILE:HD11	8:51:62:ALA:HB1	1.99	0.45
1:X4:219:PRO:HG3	1:X4:369:GLY:HA2	1.99	0.44
1:A5:176:PRO:HG2	1:A5:362:PHE:HB2	1.98	0.44
1:B5:272:ASN:OD1	1:B5:272:ASN:N	2.50	0.44
1:R4:171:GLU:HG2	1:J9:181:ARG:HH21	1.81	0.44
1:R4:211:ILE:HD12	1:R4:319:ASP:HB2	1.99	0.44
1:I4:227:LYS:HG2	1:I4:380:LEU:HD22	2.00	0.44
1:D4:143:MET:HG2	1:D4:160:PRO:HD3	1.99	0.44
1:D4:352:ASP:OD1	1:D4:352:ASP:N	2.50	0.44
1:E4:151:THR:HB	1:G4:91:ASN:HD22	1.82	0.44
1:F4:277:MET:HG2	1:F4:330:ILE:HG12	1.99	0.44
2:E3:2:ASP:HB3	2:D3:32:ARG:HG2	1.99	0.44
2:A3:47:ARG:NH2	2:A3:51:GLY:O	2.50	0.44
2:C3:47:ARG:NH2	2:C3:51:GLY:O	2.50	0.44
2:B3:44:LEU:HA	2:B3:76:THR:HA	1.98	0.44
2:E2:10:SER:O	2:E2:34:ARG:NH2	2.50	0.44
1:NO:347:LEU:HD12	1:NO:366:LYS:HD2	1.98	0.44
1:KO:111:ARG:NH1	1:JO:340:THR:OG1	2.43	0.44
1:LO:164:ARG:NH1	1:EO:100:TYR:O	2.51	0.44
1:LO:167:ILE:HG21	1:LO:342:ALA:HB3	1.97	0.44
1:LO:252:VAL:HG13	2:BM:4:PHE:CE1	2.52	0.44
1:HO:324:ALA:HB3	1:HO:327:ALA:HB2	1.98	0.44
1:IO:227:LYS:HG2	1:IO:380:LEU:HD22	1.99	0.44
1:FO:338:GLY:HA2	1:FO:374:ASP:HB3	1.99	0.44
2:AL:10:SER:O	2:AL:34:ARG:NH2	2.49	0.44
1:AK:138:VAL:HG23	1:AK:163:ASP:HB3	1.99	0.44
1:VJ:171:GLU:HA	1:VJ:367:ARG:HA	1.97	0.44
1:LJ:252:VAL:HG13	2:BH:4:PHE:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:129:VAL:HG11	1:AJ:342:ALA:HB1	1.99	0.44
1:EJ:151:THR:HB	1:GJ:91:ASN:HD22	1.83	0.44
1:FJ:101:LEU:N	1:FJ:101:LEU:CD1	2.79	0.44
2:AG:72:LEU:O	2:AG:76:THR:OG1	2.32	0.44
2:EH:2:ASP:HB3	2:DH:32:ARG:HG2	1.99	0.44
1:YE:92:SER:OG	1:YE:93:ALA:N	2.49	0.44
1:OE:227:LYS:HE2	1:OE:227:LYS:HB2	1.77	0.44
1:FE:211:ILE:HG21	1:FE:320:MET:HG2	1.97	0.44
1:BE:211:ILE:HG21	1:BE:320:MET:HG2	1.98	0.44
2:DC:10:SER:O	2:DC:34:ARG:NH2	2.49	0.44
1:X9:189:ASP:OD1	1:X9:189:ASP:N	2.47	0.44
1:Y9:352:ASP:HB3	1:W9:354:PHE:HD1	1.81	0.44
1:AA:281:THR:HG23	1:AA:323:ILE:HD11	1.99	0.44
1:BA:357:LYS:CA	1:BA:357:LYS:CE	2.92	0.44
1:N9:125:SER:OG	1:N9:336:GLY:O	2.25	0.44
1:M9:140:LYS:HG3	1:M9:235:TRP:CD1	2.52	0.44
1:O9:382:LYS:HE2	1:O9:384:ALA:HB2	2.00	0.44
1:P9:265:LEU:HA	1:P9:379:LYS:HG3	1.98	0.44
1:F9:286:ARG:HH12	1:F9:306:PRO:HD2	1.81	0.44
2:E8:47:ARG:NH2	2:E8:51:GLY:O	2.50	0.44
7:3A:94:GLU:OE2	7:3B:85:ARG:NH1	2.50	0.44
8:5A:40:ASP:HA	8:5A:53:LEU:HD13	1.98	0.44
8:5A:132:LEU:N	8:5B:50:TRP:CD1	2.77	0.44
5:1K:32:MET:HG3	5:1J:163:ARG:HE	1.81	0.44
6:4F:111:ARG:NH1	6:4F:111:ARG:H	2.16	0.44
8:5F:60:ARG:NH1	8:5E:86:GLY:HA3	2.33	0.44
8:5L:134:PHE:HB2	8:5K:84:PHE:CE2	2.40	0.44
8:5R:25:ALA:HB1	8:5R:71:LYS:HE3	1.99	0.44
8:5E:95:ILE:CB	8:5E:98:PHE:HB2	2.40	0.44
4:2G:111:MET:HG3	4:2F:2:MET:SD	2.57	0.44
5:1G:78:CYS:HB2	5:1G:350:ILE:HD11	1.99	0.44
5:1G:323:TYR:HA	5:1G:327:VAL:HB	1.99	0.44
5:1H:110:LEU:HD11	5:1H:122:LEU:HD11	1.98	0.44
6:4D:113:LYS:HG3	6:4D:114:ALA:N	2.32	0.44
8:5J:32:ILE:HD11	8:5J:62:ALA:HB1	1.99	0.44
6:4C:111:ARG:HH11	6:4C:111:ARG:HG3	1.81	0.44
6:4C:113:LYS:HG3	6:4C:114:ALA:N	2.33	0.44
4:2C:86:VAL:CG2	4:2C:107:LEU:CD1	2.86	0.44
6:4B:111:ARG:NH1	6:4B:111:ARG:H	2.16	0.44
9:7A:119:GLU:O	9:7A:130:GLU:N	2.45	0.44
10:8A:885:PHE:HB2	10:8A:915:LEU:HD11	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:6B:73:LEU:HD12	9:7B:15:VAL:HG12	1.98	0.44
10:8C:132:VAL:HG22	10:8C:198:PHE:HD1	1.82	0.44
9:7B:103:TRP:CZ2	11:6C:41:ALA:HB2	2.52	0.44
1:L4:164:ARG:NH1	1:E4:100:TYR:O	2.51	0.44
1:F4:286:ARG:HH12	1:F4:306:PRO:HD2	1.81	0.44
1:G4:167:ILE:HG21	1:G4:342:ALA:HB3	1.97	0.44
2:B3:32:ARG:HE	2:B3:67:ARG:HG2	1.83	0.44
2:E2:32:ARG:HE	2:E2:67:ARG:HG2	1.83	0.44
2:A2:47:ARG:NH2	2:A2:51:GLY:O	2.50	0.44
2:B2:32:ARG:HE	2:B2:67:ARG:HG2	1.83	0.44
1:NO:181:ARG:NH2	1:EO:170:HIS:HA	2.31	0.44
1:RO:242:ALA:HA	1:RO:382:LYS:O	2.17	0.44
1:LO:288:MET:HE3	1:LO:297:TRP:HE1	1.82	0.44
1:HO:162:ILE:HD13	1:GJ:101:LEU:HD21	2.00	0.44
1:AO:322:ASP:OD1	1:AO:322:ASP:N	2.47	0.44
1:EO:151:THR:HB	1:GO:91:ASN:HD22	1.83	0.44
2:EN:2:ASP:HB3	2:DN:32:ARG:HG2	1.99	0.44
2:AN:47:ARG:NH2	2:AN:51:GLY:O	2.50	0.44
2:BM:44:LEU:HA	2:BM:76:THR:HA	1.98	0.44
1:CK:129:VAL:HG11	1:CK:342:ALA:HB1	1.98	0.44
1:XJ:219:PRO:HG3	1:XJ:369:GLY:HA2	2.00	0.44
1:RJ:352:ASP:OD1	1:RJ:352:ASP:N	2.49	0.44
1:RJ:363:TYR:HE1	1:QJ:154:LEU:HD11	1.83	0.44
1:QJ:322:ASP:N	1:QJ:322:ASP:OD1	2.45	0.44
1:KJ:149:SER:HB2	1:KJ:152:ALA:HB2	1.99	0.44
1:DJ:338:GLY:O	1:DJ:373:SER:N	2.48	0.44
1:GJ:150:GLU:HG3	1:CJ:91:ASN:CB	2.45	0.44
2:CI:10:SER:O	2:CI:34:ARG:NH2	2.49	0.44
1:RE:363:TYR:HE1	1:QE:154:LEU:HD11	1.83	0.44
1:UE:347:LEU:HD23	1:UE:366:LYS:HB3	1.99	0.44
1:LE:270:ARG:HH12	1:HE:316:ILE:HG21	1.82	0.44
1:HE:121:ARG:NH1	1:HE:343:GLU:OE2	2.50	0.44
1:DE:310:MET:SD	1:EE:286:ARG:NH1	2.89	0.44
1:EE:151:THR:HB	1:GE:91:ASN:HD22	1.83	0.44
2:CD:10:SER:O	2:CD:34:ARG:NH2	2.49	0.44
2:BD:44:LEU:HA	2:BD:76:THR:HA	1.98	0.44
2:AB:44:LEU:HA	2:AB:76:THR:HA	1.98	0.44
2:AC:32:ARG:HE	2:AC:67:ARG:HG2	1.82	0.44
1:Z9:139:ASP:HB3	1:Z9:162:ILE:HG22	1.99	0.44
1:K9:104:PRO:HB3	1:J9:133:SER:HB2	1.99	0.44
1:H9:183:LEU:HD22	1:H9:360:VAL:HG21	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A9:129:VAL:HG11	1:A9:342:ALA:HB1	1.99	0.44
1:E9:329:ALA:HB3	1:E9:383:PHE:HE2	1.82	0.44
2:A6:32:ARG:HE	2:A6:67:ARG:HG2	1.83	0.44
2:D7:44:LEU:HA	2:D7:76:THR:HA	1.98	0.44
4:2B:126:ILE:HG12	4:2B:132:VAL:HG21	1.98	0.44
8:5A:95:ILE:CB	8:5A:98:PHE:HB2	2.40	0.44
8:5M:109:SER:HB2	8:5N:34:PHE:O	2.16	0.44
5:1K:44:ARG:HG2	5:1K:44:ARG:HH21	1.83	0.44
8:5F:57:ALA:HB1	8:5L:5:ASN:OD1	2.17	0.44
8:5F:94:ILE:HA	8:5F:100:ILE:HA	1.99	0.44
8:5X:41:VAL:HG21	8:5X:54:LEU:HD12	2.00	0.44
8:5X:42:THR:HG23	8:51:116:HIS:CE1	2.51	0.44
5:1J:323:TYR:HA	5:1J:327:VAL:HB	1.98	0.44
8:5V:35:ASN:HA	8:5U:109:SER:CB	2.47	0.44
4:2C:91:LEU:CD1	4:2C:132:VAL:HG23	2.36	0.44
9:7A:57:LYS:HD2	9:7A:71:GLU:HB2	1.98	0.44
10:8A:161:ILE:HG12	10:8A:182:GLU:HG2	1.99	0.44
11:6B:45:ARG:H	11:6B:207:GLU:CG	2.31	0.44
10:8C:833:VAL:HA	10:8C:941:VAL:HG13	1.98	0.44
11:6F:11:ASN:ND2	11:6F:54:ARG:HG2	2.32	0.44
8:53:25:ALA:HB1	8:53:71:LYS:HE3	1.99	0.44
10:8B:228:THR:HG22	10:8B:228:THR:O	2.16	0.44
11:6D:11:ASN:ND2	11:6D:54:ARG:HG2	2.32	0.44
11:6D:45:ARG:H	11:6D:207:GLU:CG	2.31	0.44
8:50:32:ILE:HD11	8:50:62:ALA:HB1	1.99	0.44
1:Z4:171:GLU:HA	1:Z4:367:ARG:HA	1.99	0.44
1:A5:143:MET:O	1:B5:201:LYS:NZ	2.49	0.44
1:Q4:324:ALA:HB3	1:Q4:327:ALA:HB2	1.98	0.44
1:T4:171:GLU:HA	1:T4:367:ARG:HA	1.98	0.44
1:D4:180:GLN:HG2	1:GO:348:ARG:HH22	1.81	0.44
1:E4:121:ARG:NH2	1:E4:343:GLU:OE1	2.44	0.44
1:F4:167:ILE:HG23	1:F4:370:GLY:HA2	1.98	0.44
1:CP:136:VAL:HG22	1:CP:165:ILE:HB	1.98	0.44
1:RO:363:TYR:HE1	1:QO:154:LEU:HD11	1.83	0.44
1:UO:268:GLU:HG2	1:VO:114:LEU:HG	1.99	0.44
1:AO:182:LEU:O	1:AO:186:SER:HB3	2.17	0.44
2:DM:44:LEU:HA	2:DM:76:THR:HA	1.98	0.44
2:BM:32:ARG:HE	2:BM:67:ARG:HG2	1.83	0.44
1:XJ:285:VAL:HG13	1:XJ:288:MET:HE2	1.99	0.44
1:AK:349:VAL:CG1	5:1H:162:GLY:HA3	2.37	0.44
1:SJ:289:LYS:HD2	2:BI:7:HIS:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EJ:285:VAL:HG13	1:EJ:288:MET:HE2	1.99	0.44
1:FJ:167:ILE:HG23	1:FJ:370:GLY:HA2	1.98	0.44
1:GJ:215:GLY:HA2	1:GJ:220:THR:HG22	1.98	0.44
2:AG:44:LEU:HA	2:AG:76:THR:HA	1.98	0.44
2:DH:10:SER:O	2:DH:34:ARG:NH2	2.49	0.44
1:AF:281:THR:HG23	1:AF:323:ILE:HD11	1.99	0.44
1:ME:140:LYS:HG3	1:ME:235:TRP:CD1	2.52	0.44
1:PE:290:ASP:OD1	1:PE:290:ASP:N	2.43	0.44
1:WE:172:LEU:HD12	1:VE:147:TRP:H	1.83	0.44
2:DD:32:ARG:HE	2:DD:67:ARG:HG2	1.83	0.44
2:AB:32:ARG:HE	2:AB:67:ARG:HG2	1.82	0.44
1:CA:175:MET:HE3	1:CA:361:LEU:HD11	1.99	0.44
1:O9:211:ILE:HG21	1:O9:320:MET:HG2	1.98	0.44
1:U9:347:LEU:HD23	1:U9:366:LYS:HB3	1.99	0.44
1:J9:171:GLU:HA	1:J9:367:ARG:HA	2.00	0.44
1:E9:285:VAL:HG13	1:E9:288:MET:HE2	1.99	0.44
2:C8:32:ARG:HE	2:C8:67:ARG:HG2	1.83	0.44
2:B8:10:SER:O	2:B8:34:ARG:NH2	2.49	0.44
2:B8:44:LEU:HA	2:B8:76:THR:HA	1.98	0.44
2:A6:47:ARG:NH2	2:A6:51:GLY:O	2.50	0.44
2:A7:32:ARG:HE	2:A7:67:ARG:HG2	1.82	0.44
2:A7:47:ARG:NH2	2:A7:51:GLY:O	2.50	0.44
6:4A:111:ARG:NH1	6:4A:111:ARG:H	2.16	0.44
8:5A:12:LYS:HG2	8:5A:92:GLN:O	2.17	0.44
4:2L:5:GLU:OE2	4:2L:61:ARG:NE	2.49	0.44
4:2L:76:GLN:HB3	4:2L:116:ILE:CG2	2.48	0.44
4:2L:103:ALA:HB3	4:2L:105:TRP:HD1	1.82	0.44
7:3E:79:ARG:HD2	7:3E:86:ILE:HB	2.00	0.44
8:5W:8:ASP:HB2	8:5W:96:PRO:HG3	2.00	0.44
8:5W:41:VAL:HG21	8:5W:54:LEU:HD12	2.00	0.44
8:5Q:32:ILE:HD11	8:5Q:62:ALA:HB1	1.99	0.44
8:5P:34:PHE:HB3	8:5O:83:PHE:CZ	2.52	0.44
8:5P:61:SER:OG	8:5P:62:ALA:N	2.48	0.44
5:1F:323:TYR:HA	5:1F:327:VAL:HB	1.98	0.44
7:3C:54:LEU:HD23	7:3C:111:VAL:HA	2.00	0.44
7:3C:112:ALA:CB	7:3B:76:PRO:HB2	2.47	0.44
8:5C:11:ILE:HG22	8:5C:93:VAL:HB	1.98	0.44
8:5U:51:ARG:CZ	8:5T:61:SER:CB	2.95	0.44
8:5I:8:ASP:HB2	8:5I:96:PRO:HG3	1.99	0.44
8:5I:25:ALA:HB1	8:5I:71:LYS:HE3	1.99	0.44
5:1D:299:VAL:HG12	5:1D:322:PHE:HE1	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2D:5:GLU:OE2	4:2D:61:ARG:NE	2.49	0.44
4:2D:58:LEU:HA	4:2D:140:PHE:HD2	1.82	0.44
4:2D:76:GLN:HB3	4:2D:116:ILE:CG2	2.48	0.44
8:5B:40:ASP:HA	8:5B:53:LEU:HD13	1.98	0.44
10:8C:80:ARG:HH21	10:8C:197:THR:HG21	1.82	0.44
10:8C:820:ARG:HH12	10:8C:827:ARG:HE	1.64	0.44
11:6E:48:ASP:HA	11:6E:204:PRO:HA	2.00	0.44
8:52:31:ARG:NH1	8:51:111:ASP:OD2	2.50	0.44
8:52:113:ALA:HB2	8:53:31:ARG:HG3	1.99	0.44
8:53:41:VAL:HG21	8:53:54:LEU:HD12	2.00	0.44
9:7B:69:ASN:OD1	9:7B:69:ASN:N	2.50	0.44
1:Q4:176:PRO:O	1:Q4:361:LEU:HA	2.17	0.44
1:H4:121:ARG:NH1	1:H4:343:GLU:OE2	2.50	0.44
1:H4:164:ARG:NH1	1:GO:100:TYR:O	2.51	0.44
1:B4:171:GLU:HA	1:B4:367:ARG:HA	1.98	0.44
1:CP:129:VAL:HG11	1:CP:342:ALA:HB1	1.98	0.44
1:CP:310:MET:HE1	1:XO:301:LEU:HD22	1.99	0.44
1:MO:136:VAL:HG23	1:MO:165:ILE:HB	1.99	0.44
1:PO:101:LEU:HD21	1:WO:162:ILE:HD13	1.98	0.44
1:DO:134:PHE:HB3	1:DO:167:ILE:HB	2.00	0.44
2:EM:2:ASP:HB3	2:DM:32:ARG:HG2	1.99	0.44
2:EM:32:ARG:HE	2:EM:67:ARG:HG2	1.83	0.44
2:DM:32:ARG:HE	2:DM:67:ARG:HG2	1.83	0.44
1:NJ:347:LEU:HD12	1:NJ:366:LYS:HD2	1.98	0.44
1:RJ:211:ILE:HD12	1:RJ:319:ASP:HB2	1.99	0.44
1:MJ:352:ASP:OD1	1:MJ:352:ASP:N	2.51	0.44
1:PJ:290:ASP:OD1	1:PJ:290:ASP:N	2.43	0.44
1:UJ:172:LEU:HD11	1:TJ:145:SER:HB3	1.99	0.44
1:KJ:256:ASP:HA	1:KJ:259:VAL:HG12	1.99	0.44
1:LJ:164:ARG:NH1	1:EJ:100:TYR:O	2.51	0.44
1:IJ:227:LYS:HG2	1:IJ:380:LEU:HD22	2.00	0.44
1:DJ:143:MET:HG2	1:DJ:160:PRO:HD3	1.99	0.44
2:DI:32:ARG:HE	2:DI:67:ARG:HG2	1.83	0.44
2:EH:32:ARG:HE	2:EH:67:ARG:HG2	1.83	0.44
1:NE:181:ARG:NH2	1:EE:170:HIS:HA	2.31	0.44
1:OE:338:GLY:O	1:OE:373:SER:N	2.49	0.44
1:JE:101:LEU:HD22	1:M9:190:ILE:HD11	1.99	0.44
1:EE:265:LEU:HD22	1:EE:270:ARG:HG3	1.98	0.44
1:FE:227:LYS:HE2	1:FE:227:LYS:HB2	1.80	0.44
1:FE:297:TRP:CE2	1:FE:309:LEU:HD23	2.52	0.44
2:ED:44:LEU:HA	2:ED:76:THR:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:32:ARG:HE	2:AD:67:ARG:HG2	1.83	0.44
2:AC:44:LEU:HA	2:AC:76:THR:HA	1.98	0.44
1:BA:357:LYS:HE2	1:BA:357:LYS:N	2.33	0.44
1:R9:363:TYR:HE1	1:Q9:154:LEU:HD11	1.82	0.44
1:Q9:277:MET:HG2	1:Q9:330:ILE:HG12	2.00	0.44
1:K9:340:THR:OG1	1:L9:111:ARG:NH1	2.46	0.44
1:H9:324:ALA:HB3	1:H9:327:ALA:HB2	1.98	0.44
1:E9:129:VAL:HG21	1:E9:134:PHE:HB2	2.00	0.44
2:C7:32:ARG:HE	2:C7:67:ARG:HG2	1.83	0.44
4:2B:76:GLN:HB3	4:2B:116:ILE:CG2	2.48	0.44
8:5A:92:GLN:HE21	8:5A:94:ILE:HD11	1.83	0.44
8:5M:32:ILE:HD11	8:5M:62:ALA:HB1	1.99	0.44
8:5M:41:VAL:HG22	8:5X:119:GLU:OE2	2.18	0.44
4:2K:86:VAL:CG2	4:2K:107:LEU:CD1	2.86	0.44
7:3F:79:ARG:HD2	7:3F:86:ILE:HB	2.00	0.44
8:5X:25:ALA:HB1	8:5X:71:LYS:HE3	1.99	0.44
8:5R:41:VAL:HG13	8:5W:69:VAL:HG11	1.99	0.44
5:1I:78:CYS:HB2	5:1I:350:ILE:HD11	1.99	0.44
5:1J:299:VAL:HG12	5:1J:322:PHE:HE1	1.82	0.44
4:2J:126:ILE:HG12	4:2J:132:VAL:HG21	1.98	0.44
8:5E:41:VAL:HA	8:5J:28:ARG:HH12	1.81	0.44
8:5E:50:TRP:HH2	8:5C:84:PHE:CD1	2.36	0.44
8:5K:41:VAL:HG21	8:5K:54:LEU:HD12	2.00	0.44
8:5Q:34:PHE:HB3	8:5P:83:PHE:CZ	2.52	0.44
8:5Q:41:VAL:HG21	8:5Q:54:LEU:HD12	2.00	0.44
4:2G:91:LEU:CD1	4:2G:132:VAL:HG23	2.36	0.44
5:1G:44:ARG:HH21	5:1G:44:ARG:HG2	1.83	0.44
5:1H:71:THR:HB	5:1H:331:LEU:HD23	2.00	0.44
4:2H:103:ALA:HB3	4:2H:105:TRP:HD1	1.82	0.44
6:4D:72:ILE:HG21	7:3D:50:GLU:HG3	1.99	0.44
8:5V:25:ALA:HB1	8:5V:71:LYS:HE3	1.99	0.44
8:5J:25:ALA:HB1	8:5J:71:LYS:HE3	1.99	0.44
8:5P:8:ASP:HB2	8:5P:96:PRO:HG3	2.00	0.44
8:5P:50:TRP:HA	8:5O:60:ARG:HG2	1.99	0.44
8:5U:8:ASP:HB2	8:5U:96:PRO:HG3	2.00	0.44
8:5O:25:ALA:HB1	8:5O:71:LYS:HE3	1.99	0.44
4:2D:103:ALA:HB3	4:2D:105:TRP:HD1	1.82	0.44
10:8A:80:ARG:HH21	10:8A:197:THR:HG21	1.82	0.44
10:8A:213:PRO:HB3	10:8A:217:ARG:NE	2.32	0.44
11:6A:181:VAL:HG12	11:6A:207:GLU:HB3	1.98	0.44
8:5Y:32:ILE:HD11	8:5Y:62:ALA:HB1	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5Y:113:ALA:HB2	8:5Z:31:ARG:HG3	1.99	0.44
11:6E:165:PRO:HD2	11:6D:5:GLU:HG2	1.99	0.44
8:52:41:VAL:HG21	8:52:54:LEU:HD12	2.00	0.44
1:M4:136:VAL:HG23	1:M4:165:ILE:HB	1.99	0.44
1:Q4:277:MET:HG2	1:Q4:330:ILE:HG12	2.00	0.44
1:U4:172:LEU:HD11	1:T4:145:SER:HB3	1.99	0.44
1:J4:101:LEU:HD22	1:MO:190:ILE:HD11	1.99	0.44
1:I4:343:GLU:HB3	1:I4:368:VAL:HG23	2.00	0.44
1:E4:329:ALA:HB3	1:E4:383:PHE:HE2	1.82	0.44
1:G4:277:MET:O	1:G4:317:ALA:N	2.45	0.44
2:E3:32:ARG:HE	2:E3:67:ARG:HG2	1.83	0.44
2:D2:32:ARG:HE	2:D2:67:ARG:HG2	1.83	0.44
1:XO:134:PHE:HB3	1:XO:167:ILE:HB	1.98	0.44
1:AP:297:TRP:HB2	1:BP:301:LEU:HD12	2.00	0.44
1:UO:347:LEU:HD23	1:UO:366:LYS:HB3	1.99	0.44
1:SO:343:GLU:HB3	1:SO:368:VAL:HG23	2.00	0.44
1:DO:143:MET:HG2	1:DO:160:PRO:HD3	1.99	0.44
1:GO:322:ASP:N	1:GO:322:ASP:OD1	2.50	0.44
1:BO:201:LYS:HZ3	1:BO:205:ALA:HB2	1.81	0.44
1:BK:223:LEU:O	1:BK:227:LYS:NZ	2.33	0.44
1:QJ:104:PRO:HB3	1:PJ:133:SER:HB2	2.00	0.44
1:OJ:382:LYS:HE2	1:OJ:384:ALA:HB2	1.99	0.44
1:UJ:181:ARG:HG3	1:QE:367:ARG:NH2	2.31	0.44
1:SJ:167:ILE:HG21	1:SJ:342:ALA:HB3	2.00	0.44
1:FJ:126:VAL:HG12	1:FJ:341:ILE:HB	1.99	0.44
1:FJ:297:TRP:CE2	1:FJ:309:LEU:HD23	2.52	0.44
2:EI:32:ARG:HE	2:EI:67:ARG:HG2	1.83	0.44
1:AF:138:VAL:HG23	1:AF:163:ASP:HB3	1.99	0.44
1:ME:344:ARG:HE	1:ME:367:ARG:HD3	1.82	0.44
1:QE:277:MET:HG2	1:QE:330:ILE:HG12	2.00	0.44
1:OE:211:ILE:HG21	1:OE:320:MET:HG2	1.98	0.44
1:UE:172:LEU:HD11	1:TE:145:SER:HB3	1.99	0.44
1:UE:316:ILE:HG21	1:TE:270:ARG:HH12	1.83	0.44
1:KE:340:THR:OG1	1:LE:111:ARG:NH1	2.46	0.44
1:IE:343:GLU:HB3	1:IE:368:VAL:HG23	2.00	0.44
1:EE:129:VAL:HG21	1:EE:134:PHE:HB2	2.00	0.44
1:EE:329:ALA:HB3	1:EE:383:PHE:HE2	1.82	0.44
1:GE:347:LEU:HB3	1:GE:366:LYS:HB2	2.00	0.44
2:ED:32:ARG:HE	2:ED:67:ARG:HG2	1.83	0.44
2:ED:47:ARG:NH2	2:ED:51:GLY:O	2.50	0.44
1:CA:136:VAL:HG22	1:CA:165:ILE:HB	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q9:179:SER:HA	1:Q9:359:HIS:HA	2.00	0.44
1:L9:164:ARG:NH1	1:E9:100:TYR:O	2.51	0.44
1:L9:182:LEU:O	1:L9:186:SER:OG	2.29	0.44
1:I9:255:SER:HB2	1:I9:297:TRP:CZ2	2.53	0.44
1:D9:177:LYS:HA	1:D9:361:LEU:HA	2.00	0.44
1:E9:227:LYS:HG2	1:E9:380:LEU:HD22	2.00	0.44
1:G9:347:LEU:HB3	1:G9:366:LYS:HB2	2.00	0.44
2:E8:32:ARG:HE	2:E8:67:ARG:HG2	1.83	0.44
2:A8:66:VAL:HA	2:B8:15:ALA:HB3	2.00	0.44
5:1A:26:THR:HG21	5:1L:138:LEU:HD22	1.98	0.44
4:2L:126:ILE:HG12	4:2L:132:VAL:HG21	1.98	0.44
7:3F:14:GLU:OE2	7:3F:75:ARG:NH1	2.51	0.44
8:5X:41:VAL:HA	8:52:28:ARG:HH12	1.82	0.44
8:5L:32:ILE:HD11	8:5L:62:ALA:HB1	1.99	0.44
5:1J:225:ILE:HD13	5:1J:244:LEU:HD11	1.98	0.44
8:5E:9:LEU:HA	8:5E:94:ILE:O	2.16	0.44
8:5E:12:LYS:HG2	8:5E:92:GLN:O	2.17	0.44
8:5W:44:LEU:O	8:51:7:LYS:HG2	2.16	0.44
8:5D:28:ARG:HB3	8:5C:116:HIS:HD2	1.83	0.44
8:5U:35:ASN:C	8:5T:108:THR:O	2.60	0.44
5:1C:78:CYS:HB2	5:1C:350:ILE:HD11	1.99	0.44
11:6B:195:PHE:HZ	8:50:46:SER:HB2	1.83	0.44
8:52:97:ASP:H	8:51:70:PHE:HE2	1.66	0.44
1:C5:136:VAL:HG22	1:C5:165:ILE:HB	1.98	0.44
1:B5:357:LYS:HE2	1:B5:357:LYS:N	2.33	0.44
1:M4:182:LEU:HB2	1:J9:92:SER:HB2	1.99	0.44
1:U4:268:GLU:HG2	1:V4:114:LEU:HG	1.99	0.44
1:L4:252:VAL:HG13	2:B2:4:PHE:CE1	2.52	0.44
1:E4:265:LEU:HD22	1:E4:270:ARG:HG3	1.98	0.44
1:ZO:215:GLY:HA2	1:ZO:220:THR:HG22	1.99	0.44
1:SO:167:ILE:HG21	1:SO:342:ALA:HB3	2.00	0.44
1:JO:277:MET:O	1:JO:317:ALA:N	2.41	0.44
1:VO:182:LEU:O	1:VO:186:SER:OG	2.31	0.44
1:HO:121:ARG:NH1	1:HO:343:GLU:OE2	2.50	0.44
1:FO:297:TRP:CE2	1:FO:309:LEU:HD23	2.52	0.44
1:YJ:297:TRP:CE2	1:YJ:309:LEU:HD23	2.51	0.44
1:BK:139:ASP:HA	1:BK:162:ILE:HA	2.00	0.44
1:BK:357:LYS:HE2	1:BK:357:LYS:N	2.33	0.44
1:NJ:301:LEU:HD12	1:MJ:297:TRP:HB2	1.99	0.44
1:HJ:343:GLU:HB3	1:HJ:368:VAL:HG23	1.99	0.44
1:IJ:256:ASP:OD1	1:IJ:256:ASP:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DJ:134:PHE:HB3	1:DJ:167:ILE:HB	2.00	0.44
1:DJ:167:ILE:HD12	1:DJ:370:GLY:HA2	2.00	0.44
1:EJ:129:VAL:HG21	1:EJ:134:PHE:HB2	2.00	0.44
1:EJ:227:LYS:HG2	1:EJ:380:LEU:HD22	2.00	0.44
1:FJ:338:GLY:HA2	1:FJ:374:ASP:HB3	1.99	0.44
2:AI:32:ARG:HE	2:AI:67:ARG:HG2	1.83	0.44
2:EH:66:VAL:HA	2:AH:15:ALA:HB3	1.99	0.44
2:DH:44:LEU:HA	2:DH:76:THR:HA	1.98	0.44
2:BH:72:LEU:O	2:BH:76:THR:OG1	2.32	0.44
1:XE:219:PRO:HG3	1:XE:369:GLY:HA2	1.99	0.44
1:XE:285:VAL:HG13	1:XE:288:MET:HE2	1.99	0.44
1:ZE:150:GLU:HA	1:ZE:154:LEU:HB3	1.99	0.44
1:ZE:189:ASP:OD1	1:ZE:189:ASP:N	2.47	0.44
1:AF:164:ARG:O	4:2E:122:MET:CB	2.65	0.44
1:GE:136:VAL:HG22	1:GE:165:ILE:HB	1.99	0.44
2:AD:11:LEU:HD23	2:BD:14:PRO:HD2	2.00	0.44
1:X9:219:PRO:HG3	1:X9:369:GLY:HA2	1.99	0.44
1:Z9:150:GLU:HA	1:Z9:154:LEU:HB3	1.99	0.44
1:Z9:171:GLU:HA	1:Z9:367:ARG:HA	1.99	0.44
1:R9:211:ILE:HD12	1:R9:319:ASP:HB2	1.99	0.44
1:U9:182:LEU:O	1:U9:186:SER:CB	2.66	0.44
1:H9:343:GLU:HB3	1:H9:368:VAL:HG23	1.99	0.44
2:D8:44:LEU:HA	2:D8:76:THR:HA	1.98	0.44
2:A8:11:LEU:HD23	2:B8:14:PRO:HD2	2.00	0.44
2:A8:67:ARG:NH2	2:B8:4:PHE:HB2	2.33	0.44
2:E7:10:SER:O	2:E7:34:ARG:NH2	2.50	0.44
2:E7:32:ARG:HE	2:E7:67:ARG:HG2	1.83	0.44
5:1B:71:THR:HB	5:1B:331:LEU:HD23	2.00	0.44
4:2B:66:ALA:HA	4:2B:133:GLU:HA	1.98	0.44
6:4A:72:ILE:HG21	7:3A:50:GLU:HG3	1.99	0.44
6:4A:86:ALA:HB1	6:4B:4:ALA:HA	2.00	0.44
8:5A:50:TRP:NE1	8:5F:132:LEU:H	2.15	0.44
8:5M:80:ARG:CZ	8:5N:134:PHE:CE2	3.01	0.44
5:1K:177:CYS:HB2	5:1K:341:TRP:CD2	2.53	0.44
5:1L:71:THR:HB	5:1L:331:LEU:HD23	2.00	0.44
8:5F:9:LEU:HA	8:5F:94:ILE:O	2.17	0.44
6:4E:111:ARG:NH1	6:4E:111:ARG:H	2.15	0.44
6:4E:113:LYS:HZ3	6:4E:115:ARG:HB3	1.83	0.44
7:3E:54:LEU:HD23	7:3E:111:VAL:HA	1.99	0.44
5:1H:299:VAL:HG12	5:1H:322:PHE:HE1	1.82	0.44
7:3D:79:ARG:HD2	7:3D:86:ILE:HB	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5D:9:LEU:HB3	8:5D:96:PRO:HD3	1.99	0.44
5:1F:110:LEU:HD11	5:1F:122:LEU:HD11	1.99	0.44
8:5U:32:ILE:HD11	8:5U:62:ALA:HB1	1.99	0.44
8:5B:12:LYS:HZ3	8:5B:94:ILE:HG13	1.83	0.44
8:5T:43:SER:CB	8:5Y:71:LYS:NZ	2.81	0.44
9:7A:92:ASP:CG	10:8B:855:ARG:HH11	2.25	0.44
10:8C:213:PRO:HB3	10:8C:217:ARG:NE	2.32	0.44
10:8C:855:ARG:HH11	9:7B:92:ASP:CG	2.26	0.44
1:C5:263:TYR:OH	1:X4:305:GLU:OE1	2.25	0.44
1:Y4:265:LEU:HD23	1:Y4:379:LYS:HG2	2.00	0.44
1:A5:297:TRP:HB2	1:B5:301:LEU:HD12	2.00	0.44
1:B5:139:ASP:HA	1:B5:162:ILE:HA	2.00	0.44
1:L4:288:MET:HE3	1:L4:297:TRP:HE1	1.82	0.44
1:D4:114:LEU:HB3	1:C4:268:GLU:HG2	1.99	0.44
1:E4:285:VAL:HG13	1:E4:288:MET:HE2	1.99	0.44
1:G4:101:LEU:HD21	1:H9:162:ILE:HD13	1.99	0.44
2:A3:32:ARG:HE	2:A3:67:ARG:HG2	1.83	0.44
1:AP:126:VAL:HG22	5:1K:162:GLY:H	1.72	0.44
1:QO:277:MET:HG2	1:QO:330:ILE:HG12	2.00	0.44
1:JO:92:SER:HB2	1:MJ:182:LEU:HB2	1.99	0.44
1:JO:242:ALA:HA	1:JO:382:LYS:O	2.18	0.44
1:IO:324:ALA:HB3	1:IO:327:ALA:HB2	2.00	0.44
1:BO:171:GLU:HA	1:BO:367:ARG:HA	1.98	0.44
2:BN:32:ARG:HE	2:BN:67:ARG:HG2	1.83	0.44
2:AM:32:ARG:HE	2:AM:67:ARG:HG2	1.82	0.44
1:AK:297:TRP:HB2	1:BK:301:LEU:HD12	2.00	0.44
1:MJ:140:LYS:HG3	1:MJ:235:TRP:CD1	2.52	0.44
1:QJ:324:ALA:HB3	1:QJ:327:ALA:HB2	1.98	0.44
1:JJ:134:PHE:HB3	1:JJ:167:ILE:HB	2.00	0.44
2:CI:14:PRO:HD2	2:BI:11:LEU:HD23	2.00	0.44
2:AG:32:ARG:HE	2:AG:67:ARG:HG2	1.83	0.44
2:AH:44:LEU:HA	2:AH:76:THR:HA	1.98	0.44
2:AH:67:ARG:NH2	2:BH:4:PHE:HB2	2.33	0.44
2:CH:47:ARG:NH2	2:CH:51:GLY:O	2.50	0.44
1:YE:121:ARG:NH1	1:YE:343:GLU:OE2	2.50	0.44
1:YE:352:ASP:HB3	1:WE:354:PHE:HD1	1.81	0.44
1:BF:357:LYS:HE2	1:BF:357:LYS:N	2.33	0.44
1:UE:182:LEU:O	1:UE:186:SER:CB	2.66	0.44
1:KE:145:SER:HB3	1:LE:172:LEU:HD11	2.00	0.44
1:LE:164:ARG:NH1	1:EE:100:TYR:O	2.51	0.44
1:IE:227:LYS:HG2	1:IE:380:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DE:114:LEU:HB3	1:CE:268:GLU:HG2	1.99	0.44
2:ED:66:VAL:HA	2:AD:15:ALA:HB3	1.99	0.44
2:EC:66:VAL:HA	2:AC:15:ALA:HB3	1.99	0.44
1:K9:223:LEU:O	1:K9:227:LYS:NZ	2.32	0.44
1:D9:143:MET:HG2	1:D9:160:PRO:HD3	1.99	0.44
1:E9:265:LEU:HD22	1:E9:270:ARG:HG3	1.98	0.44
4:2B:92:VAL:HG12	4:2B:93:ASP:O	2.18	0.44
6:4A:113:LYS:HG3	6:4A:114:ALA:N	2.33	0.44
7:3A:37:ALA:HB2	7:3A:63:VAL:HG12	1.98	0.44
7:3A:79:ARG:HD2	7:3A:86:ILE:HB	2.00	0.44
8:5A:94:ILE:HA	8:5A:100:ILE:HA	1.99	0.44
8:5S:106:MET:HE2	8:5T:55:GLY:HA2	2.00	0.44
8:5M:25:ALA:HB1	8:5M:71:LYS:HE3	1.99	0.44
5:1L:299:VAL:HG12	5:1L:322:PHE:HE1	1.82	0.44
7:3F:54:LEU:HD23	7:3F:111:VAL:HA	2.00	0.44
4:2J:103:ALA:HB3	4:2J:105:TRP:HD1	1.82	0.44
6:4E:113:LYS:HG3	6:4E:114:ALA:N	2.33	0.44
6:4D:113:LYS:HZ3	6:4D:115:ARG:HB3	1.83	0.44
7:3D:54:LEU:HD23	7:3D:111:VAL:HA	1.99	0.44
8:5D:44:LEU:HD21	8:5I:7:LYS:CA	2.42	0.44
8:5D:44:LEU:HG	8:5I:10:LEU:HD21	2.00	0.44
8:5P:134:PHE:CG	8:5O:80:ARG:HD3	2.53	0.44
5:1E:177:CYS:HB2	5:1E:341:TRP:CD2	2.53	0.44
5:1F:71:THR:HB	5:1F:331:LEU:HD23	2.00	0.44
5:1F:225:ILE:HD13	5:1F:244:LEU:HD11	1.98	0.44
5:1C:177:CYS:HB2	5:1C:341:TRP:CD2	2.53	0.44
8:5B:41:VAL:CG2	8:5B:54:LEU:HB2	2.44	0.44
10:8C:784:VAL:CG1	10:8C:787:LEU:HD12	2.42	0.44
11:6F:45:ARG:H	11:6F:207:GLU:CG	2.31	0.44
1:Z4:150:GLU:HA	1:Z4:154:LEU:HB3	1.99	0.44
1:N4:215:GLY:HA2	1:N4:220:THR:HG22	1.98	0.44
1:W4:227:LYS:HE2	1:W4:227:LYS:HB2	1.88	0.44
1:J4:92:SER:HB2	1:MO:182:LEU:HB2	1.99	0.44
1:H4:343:GLU:HB3	1:H4:368:VAL:HG23	1.99	0.44
1:E4:132:THR:HG21	1:F4:102:VAL:HG22	1.99	0.44
2:A3:11:LEU:HD23	2:B3:14:PRO:HD2	2.00	0.44
2:A3:19:TYR:OH	2:A3:31:ARG:O	2.23	0.44
2:A3:67:ARG:NH2	2:B3:4:PHE:HB2	2.33	0.44
2:A2:11:LEU:HD23	2:B2:14:PRO:HD2	2.00	0.44
2:A2:19:TYR:OH	2:A2:31:ARG:O	2.23	0.44
1:YO:92:SER:OG	1:YO:93:ALA:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MO:277:MET:O	1:MO:317:ALA:N	2.49	0.44
1:TO:114:LEU:HG	1:SO:268:GLU:HG2	2.00	0.44
1:IO:254:ALA:C	1:IO:255:SER:HG	2.16	0.44
1:IO:255:SER:HB2	1:IO:297:TRP:CZ2	2.53	0.44
2:AM:67:ARG:NH2	2:BM:4:PHE:HB2	2.33	0.44
1:ZJ:171:GLU:HA	1:ZJ:367:ARG:HA	1.99	0.44
1:AK:143:MET:O	1:BK:201:LYS:NZ	2.49	0.44
1:BK:272:ASN:OD1	1:BK:272:ASN:N	2.50	0.44
1:PJ:126:VAL:HA	1:PJ:341:ILE:O	2.18	0.44
1:JJ:92:SER:HB2	1:ME:182:LEU:HB2	2.00	0.44
2:DI:44:LEU:HA	2:DI:76:THR:HA	1.98	0.44
2:DI:47:ARG:NH2	2:DI:51:GLY:O	2.50	0.44
1:ZE:139:ASP:HB3	1:ZE:162:ILE:HG22	1.99	0.44
1:SE:167:ILE:HG21	1:SE:342:ALA:HB3	2.00	0.44
1:DE:167:ILE:HD12	1:DE:370:GLY:HA2	2.00	0.44
1:EE:285:VAL:HG13	1:EE:288:MET:HE2	1.99	0.44
1:FE:126:VAL:HG12	1:FE:341:ILE:HB	1.99	0.44
1:FE:223:LEU:O	1:FE:227:LYS:NZ	2.33	0.44
2:CD:32:ARG:HE	2:CD:67:ARG:HG2	1.83	0.44
2:EC:32:ARG:HE	2:EC:67:ARG:HG2	1.83	0.44
1:M9:157:THR:CG2	1:M9:158:ALA:H	2.30	0.44
1:S9:328:TYR:HB3	1:S9:380:LEU:HD23	2.00	0.44
1:S9:343:GLU:HB3	1:S9:368:VAL:HG23	2.00	0.44
1:E9:162:ILE:H	1:E9:162:ILE:HG13	1.56	0.44
8:5S:116:HIS:HE1	8:5O:42:THR:HG21	1.82	0.44
4:2K:25:LEU:HD12	4:2J:38:ALA:HB2	1.99	0.44
5:1K:323:TYR:HA	5:1K:327:VAL:HB	1.99	0.44
4:2L:58:LEU:HA	4:2L:140:PHE:HD2	1.82	0.44
4:2L:83:VAL:HG12	4:2L:138:ALA:HB2	1.99	0.44
8:5L:4:GLN:HG3	8:5K:70:PHE:CE2	2.53	0.44
8:5R:41:VAL:HG21	8:5R:54:LEU:HD12	2.00	0.44
5:1I:177:CYS:HB2	5:1I:341:TRP:CD2	2.53	0.44
5:1J:71:THR:HB	5:1J:331:LEU:HD23	2.00	0.44
8:5W:55:GLY:CA	8:5V:88:VAL:CG1	2.96	0.44
8:5K:32:ILE:HD11	8:5K:62:ALA:HB1	1.99	0.44
8:5J:8:ASP:HB2	8:5J:96:PRO:HG3	2.00	0.44
8:5J:41:VAL:HG21	8:5J:54:LEU:HD12	2.00	0.44
4:2E:86:VAL:CG2	4:2E:107:LEU:CD1	2.86	0.44
5:1E:225:ILE:HD11	5:1E:268:LEU:HD22	2.00	0.44
5:1E:323:TYR:HA	5:1E:327:VAL:HB	1.99	0.44
6:4C:10:GLN:HG2	7:3B:22:ALA:HB1	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:3C:14:GLU:OE2	7:3C:75:ARG:NH1	2.51	0.44
8:5U:31:ARG:HG3	8:5T:113:ALA:HB2	1.98	0.44
4:2D:92:VAL:HG12	4:2D:93:ASP:O	2.18	0.44
6:4B:113:LYS:HG3	6:4B:114:ALA:N	2.32	0.44
8:5B:92:GLN:HE21	8:5B:94:ILE:HD11	1.83	0.44
8:5H:32:ILE:HD11	8:5H:62:ALA:HB1	1.99	0.44
11:6A:165:PRO:HD2	11:6F:5:GLU:HG2	2.00	0.44
1:X4:352:ASP:HB3	1:Q4:354:PHE:CD1	2.53	0.44
1:A5:177:LYS:HG3	1:A5:361:LEU:CD1	2.42	0.44
1:R4:363:TYR:HE1	1:Q4:154:LEU:HD11	1.83	0.44
1:M4:140:LYS:HG3	1:M4:235:TRP:CD1	2.52	0.44
1:J4:242:ALA:HA	1:J4:382:LYS:O	2.18	0.44
1:L4:171:GLU:HG2	1:E4:181:ARG:HH21	1.82	0.44
1:I4:255:SER:HB2	1:I4:297:TRP:CZ2	2.53	0.44
1:F4:352:ASP:HB3	1:I9:354:PHE:HD1	1.83	0.44
1:AP:281:THR:HG23	1:AP:323:ILE:HD11	1.99	0.44
1:BP:188:PHE:HB2	5:1L:44:ARG:HH11	1.83	0.44
1:NO:301:LEU:HD12	1:MO:297:TRP:HB2	1.99	0.44
1:MO:140:LYS:HG3	1:MO:235:TRP:CD1	2.52	0.44
1:JO:252:VAL:HG11	2:EM:3:VAL:HG11	1.96	0.44
1:HO:183:LEU:HD22	1:HO:360:VAL:HG21	1.98	0.44
1:EO:227:LYS:HG2	1:EO:380:LEU:HD22	2.00	0.44
1:EO:285:VAL:HG13	1:EO:288:MET:HE2	1.99	0.44
1:FO:277:MET:HG2	1:FO:330:ILE:HG12	1.99	0.44
2:CN:14:PRO:HD2	2:BN:11:LEU:HD23	2.00	0.44
1:NJ:263:TYR:OH	1:OJ:286:ARG:NH1	2.51	0.44
1:TJ:252:VAL:HG13	2:DI:4:PHE:CZ	2.53	0.44
1:SJ:328:TYR:HB3	1:SJ:380:LEU:HD23	2.00	0.44
1:AJ:182:LEU:O	1:AJ:186:SER:HB3	2.17	0.44
1:DJ:177:LYS:HA	1:DJ:361:LEU:HA	2.00	0.44
2:BH:32:ARG:HE	2:BH:67:ARG:HG2	1.83	0.44
1:BF:272:ASN:OD1	1:BF:272:ASN:N	2.50	0.44
1:UE:288:MET:HA	2:DD:6:LYS:HB3	2.00	0.44
1:TE:171:GLU:HA	1:TE:367:ARG:HA	1.98	0.44
1:KE:305:GLU:CB	1:KE:306:PRO:CD	2.92	0.44
1:EE:227:LYS:HG2	1:EE:380:LEU:HD22	2.00	0.44
1:CE:350:LEU:HD11	1:B9:354:PHE:CE1	2.53	0.44
2:BD:32:ARG:HE	2:BD:67:ARG:HG2	1.83	0.44
2:CC:19:TYR:OH	2:CC:31:ARG:O	2.23	0.44
1:Y9:265:LEU:HD23	1:Y9:379:LYS:HG2	2.00	0.44
1:Z9:215:GLY:HA2	1:Z9:220:THR:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N9:328:TYR:HB3	1:N9:380:LEU:HD23	2.00	0.44
1:P9:126:VAL:HA	1:P9:341:ILE:O	2.18	0.44
1:T9:114:LEU:HG	1:S9:268:GLU:HG2	2.00	0.44
1:K9:149:SER:HB2	1:K9:152:ALA:HB2	1.99	0.44
1:J9:242:ALA:HA	1:J9:382:LYS:O	2.18	0.44
1:I9:227:LYS:HG2	1:I9:380:LEU:HD22	2.00	0.44
1:F9:277:MET:HG2	1:F9:330:ILE:HG12	1.99	0.44
2:A8:32:ARG:HE	2:A8:67:ARG:HG2	1.83	0.44
7:3A:19:ALA:HA	7:3A:25:HIS:HA	2.00	0.44
8:5G:32:ILE:HD11	8:5G:62:ALA:HB1	1.99	0.44
8:5M:134:PHE:CZ	8:5R:80:ARG:NE	2.86	0.44
8:5X:54:LEU:HD11	8:53:4:GLN:C	2.43	0.44
8:5E:41:VAL:HG22	8:5J:119:GLU:HG2	1.98	0.44
8:5E:94:ILE:HA	8:5E:100:ILE:HA	1.99	0.44
8:5D:57:ALA:HB1	8:5J:5:ASN:OD1	2.17	0.44
8:5U:41:VAL:HG21	8:5U:54:LEU:HD12	2.00	0.44
7:3B:14:GLU:OE2	7:3B:75:ARG:NH1	2.51	0.44
8:5T:41:VAL:HG11	8:5Z:3:ALA:CB	2.47	0.44
8:5N:25:ALA:HB1	8:5N:71:LYS:HE3	1.99	0.44
9:7A:226:ARG:HD3	9:7A:226:ARG:HA	1.86	0.44
11:6A:10:ALA:CB	8:5Y:45:GLU:OE2	2.64	0.44
8:5Y:25:ALA:HB1	8:5Y:71:LYS:HE3	1.99	0.44
10:8C:161:ILE:HG12	10:8C:182:GLU:HG2	1.99	0.44
11:6E:24:THR:HG21	11:6D:72:GLN:CG	2.48	0.44
10:8B:80:ARG:HH21	10:8B:197:THR:HG21	1.82	0.44
8:51:8:ASP:HB2	8:51:96:PRO:HG3	2.00	0.44
1:P4:277:MET:O	1:P4:317:ALA:N	2.47	0.43
1:U4:347:LEU:HD23	1:U4:366:LYS:HB3	1.99	0.43
1:T4:114:LEU:HG	1:S4:268:GLU:HG2	2.00	0.43
1:K4:106:THR:HA	1:J4:135:ASP:HB2	2.00	0.43
1:K4:149:SER:HB2	1:K4:152:ALA:HB2	1.99	0.43
1:J4:116:SER:HA	1:I4:268:GLU:HB2	2.00	0.43
1:D4:338:GLY:O	1:D4:373:SER:N	2.48	0.43
2:C2:32:ARG:HE	2:C2:67:ARG:HG2	1.83	0.43
1:AP:108:GLU:HG3	1:AP:109:THR:HG23	2.00	0.43
1:BP:177:LYS:HD2	1:BP:359:HIS:CG	2.52	0.43
1:JO:134:PHE:HB3	1:JO:167:ILE:HB	2.00	0.43
1:FO:338:GLY:O	1:FO:373:SER:N	2.49	0.43
2:CM:32:ARG:HE	2:CM:67:ARG:HG2	1.83	0.43
1:HJ:227:LYS:HE2	1:HJ:227:LYS:HB2	1.84	0.43
1:IJ:324:ALA:HB3	1:IJ:327:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EJ:265:LEU:HD21	1:EJ:269:TYR:HB2	2.00	0.43
1:FJ:143:MET:HG2	1:FJ:160:PRO:HD3	2.00	0.43
2:CI:19:TYR:OH	2:CI:31:ARG:O	2.23	0.43
2:EH:19:TYR:OH	2:EH:31:ARG:O	2.23	0.43
1:XE:134:PHE:HB3	1:XE:167:ILE:HB	1.98	0.43
1:XE:352:ASP:HB3	1:QE:354:PHE:CD1	2.53	0.43
1:AF:297:TRP:HB2	1:BF:301:LEU:HD12	2.00	0.43
1:BF:139:ASP:HA	1:BF:162:ILE:HA	2.00	0.43
1:OE:382:LYS:HE2	1:OE:384:ALA:HB2	1.99	0.43
1:UE:268:GLU:HG2	1:VE:114:LEU:HG	1.99	0.43
1:SE:343:GLU:HB3	1:SE:368:VAL:HG23	2.00	0.43
1:LE:285:VAL:HA	1:LE:288:MET:HE2	2.00	0.43
1:HE:162:ILE:HD13	1:G9:101:LEU:HD21	2.00	0.43
1:CE:352:ASP:OD2	1:CE:355:SER:OG	2.33	0.43
2:CD:14:PRO:HD2	2:BD:11:LEU:HD23	2.00	0.43
2:DC:32:ARG:HE	2:DC:67:ARG:HG2	1.83	0.43
1:X9:352:ASP:HB3	1:Q9:354:PHE:CD1	2.53	0.43
1:Y9:322:ASP:OD1	1:Y9:322:ASP:N	2.49	0.43
1:AA:130:GLU:OE2	5:1D:45:ASP:CA	2.65	0.43
1:P9:277:MET:HG2	1:P9:330:ILE:HG12	2.00	0.43
1:E9:90:LEU:HB3	1:E9:91:ASN:H	1.62	0.43
1:E9:171:GLU:HA	1:E9:367:ARG:HA	2.00	0.43
1:F9:126:VAL:HG12	1:F9:341:ILE:HB	1.99	0.43
1:C9:281:THR:HG23	1:C9:323:ILE:HD11	1.98	0.43
2:C8:14:PRO:HD2	2:B8:11:LEU:HD23	2.00	0.43
5:1A:177:CYS:HB2	5:1A:341:TRP:CD2	2.53	0.43
8:5S:25:ALA:HB1	8:5S:71:LYS:HE3	1.99	0.43
8:5G:70:PHE:CE2	8:5H:4:GLN:HG3	2.53	0.43
8:5L:50:TRP:CD2	8:5K:60:ARG:HG3	2.53	0.43
4:2I:108:VAL:HG13	4:2H:68:THR:HG21	1.99	0.43
5:1I:182:PHE:CE1	5:1H:109:ALA:HA	2.53	0.43
5:1I:225:ILE:HD11	5:1I:268:LEU:HD22	2.00	0.43
5:1I:239:GLU:OE2	4:2J:111:MET:SD	2.76	0.43
4:2J:76:GLN:HB3	4:2J:116:ILE:CG2	2.48	0.43
8:5Q:34:PHE:HD2	8:5P:110:ILE:HG13	1.83	0.43
4:2H:92:VAL:HG12	4:2H:93:ASP:O	2.18	0.43
7:3D:14:GLU:OE2	7:3D:75:ARG:NH1	2.51	0.43
4:2F:103:ALA:HB3	4:2F:105:TRP:HD1	1.82	0.43
6:4C:111:ARG:NH1	6:4C:111:ARG:H	2.16	0.43
6:4C:113:LYS:HZ3	6:4C:115:ARG:HB3	1.83	0.43
7:3C:79:ARG:HD2	7:3C:86:ILE:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5C:28:ARG:HB3	8:5B:116:HIS:HD2	1.82	0.43
8:5I:32:ILE:HD11	8:5I:62:ALA:HB1	1.99	0.43
8:5I:34:PHE:HB3	8:5H:83:PHE:CZ	2.53	0.43
8:5B:12:LYS:HG2	8:5B:92:GLN:O	2.17	0.43
8:5Y:31:ARG:NH1	8:53:111:ASP:OD2	2.51	0.43
11:6F:37:ASN:OD1	11:6F:38:SER:N	2.51	0.43
8:53:32:ILE:HD11	8:53:62:ALA:HB1	1.99	0.43
1:Z4:162:ILE:H	1:Z4:162:ILE:HG13	1.71	0.43
1:N4:277:MET:HG2	1:N4:330:ILE:HG12	2.00	0.43
1:U4:181:ARG:HG3	1:QO:367:ARG:NH2	2.30	0.43
1:U4:227:LYS:HE2	1:U4:227:LYS:HB2	1.87	0.43
1:U4:288:MET:HA	2:D3:6:LYS:HB3	2.00	0.43
1:S4:167:ILE:HG21	1:S4:342:ALA:HB3	2.00	0.43
1:E4:227:LYS:HG2	1:E4:380:LEU:HD22	2.00	0.43
2:C3:32:ARG:HE	2:C3:67:ARG:HG2	1.83	0.43
2:A2:32:ARG:HE	2:A2:67:ARG:HG2	1.82	0.43
1:AP:349:VAL:HG23	1:AP:364:ALA:HB2	2.00	0.43
1:NO:263:TYR:OH	1:OO:286:ARG:NH1	2.51	0.43
1:QO:104:PRO:HB3	1:PO:133:SER:HB2	2.00	0.43
1:UO:182:LEU:O	1:UO:186:SER:CB	2.66	0.43
1:EO:129:VAL:HG21	1:EO:134:PHE:HB2	2.00	0.43
1:EO:265:LEU:HD21	1:EO:269:TYR:HB2	1.99	0.43
2:AN:32:ARG:HE	2:AN:67:ARG:HG2	1.83	0.43
2:CN:32:ARG:HE	2:CN:67:ARG:HG2	1.83	0.43
1:XJ:352:ASP:HB3	1:QJ:354:PHE:CD1	2.53	0.43
1:OJ:121:ARG:NH2	1:OJ:343:GLU:OE1	2.41	0.43
1:OJ:348:ARG:NH2	1:SJ:184:ASP:OD2	2.50	0.43
1:PJ:277:MET:HG2	1:PJ:330:ILE:HG12	2.00	0.43
1:LJ:171:GLU:HG2	1:EJ:181:ARG:HH21	1.82	0.43
1:IJ:354:PHE:HD1	1:FE:352:ASP:HB3	1.83	0.43
2:AI:66:VAL:HA	2:BI:15:ALA:HB3	2.00	0.43
1:CF:310:MET:HE1	1:XE:301:LEU:HD22	1.99	0.43
1:XE:162:ILE:H	1:XE:162:ILE:HG13	1.57	0.43
1:YE:277:MET:O	1:YE:317:ALA:N	2.50	0.43
1:BF:277:MET:O	1:BF:317:ALA:N	2.48	0.43
1:BF:357:LYS:CA	1:BF:357:LYS:CE	2.92	0.43
1:NE:328:TYR:HB3	1:NE:380:LEU:HD23	2.00	0.43
1:NE:352:ASP:OD2	1:LE:357:LYS:NZ	2.39	0.43
1:QE:104:PRO:HB3	1:PE:133:SER:HB2	2.00	0.43
1:QE:179:SER:HA	1:QE:359:HIS:HA	2.00	0.43
1:PE:277:MET:HG2	1:PE:330:ILE:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TE:252:VAL:HG13	2:DD:4:PHE:CZ	2.53	0.43
1:JE:92:SER:HB2	1:M9:182:LEU:HB2	1.99	0.43
1:LE:252:VAL:HG13	2:BC:4:PHE:CE1	2.52	0.43
1:HE:164:ARG:NH1	1:G9:100:TYR:O	2.50	0.43
1:IE:255:SER:HB2	1:IE:297:TRP:CZ2	2.53	0.43
1:DE:134:PHE:HB3	1:DE:167:ILE:HB	2.00	0.43
1:EE:132:THR:HG21	1:FE:102:VAL:HG22	1.99	0.43
1:EE:265:LEU:HD21	1:EE:269:TYR:HB2	2.00	0.43
2:AD:66:VAL:HA	2:BD:15:ALA:HB3	2.00	0.43
1:AA:297:TRP:HB2	1:BA:301:LEU:HD12	2.00	0.43
1:W9:145:SER:HB3	1:S9:172:LEU:HD11	2.00	0.43
1:U9:268:GLU:HG2	1:V9:114:LEU:HG	1.99	0.43
1:K9:106:THR:HA	1:J9:135:ASP:HB2	2.00	0.43
1:H9:121:ARG:NH1	1:H9:343:GLU:OE2	2.50	0.43
1:D9:134:PHE:HB3	1:D9:167:ILE:HB	2.00	0.43
1:F9:263:TYR:OH	1:G9:305:GLU:OE1	2.26	0.43
1:B9:201:LYS:HZ3	1:B9:205:ALA:HB2	1.82	0.43
2:A7:11:LEU:HD23	2:B7:14:PRO:HD2	2.00	0.43
4:2A:188:ARG:O	5:1L:240:GLN:NE2	2.51	0.43
5:1B:299:VAL:HG12	5:1B:322:PHE:HE1	1.82	0.43
6:4A:113:LYS:HZ3	6:4A:115:ARG:HB3	1.83	0.43
8:5S:32:ILE:HD11	8:5S:62:ALA:HB1	1.99	0.43
4:2K:112:ALA:HB1	5:1J:243:ARG:HB2	2.00	0.43
7:3E:14:GLU:OE2	7:3E:75:ARG:NH1	2.51	0.43
8:5E:60:ARG:NH1	8:5D:86:GLY:HA3	2.33	0.43
8:5W:25:ALA:HB1	8:5W:71:LYS:HE3	1.99	0.43
8:5W:66:GLY:O	8:5W:124:LEU:N	2.47	0.43
8:5K:8:ASP:HB2	8:5K:96:PRO:HG3	1.99	0.43
4:2G:110:ASP:OD1	4:2F:1:MET:O	2.35	0.43
6:4D:4:ALA:HB1	6:4D:101:ARG:HH11	1.83	0.43
8:5V:32:ILE:HD11	8:5V:62:ALA:HB1	1.99	0.43
5:1E:44:ARG:HG2	5:1E:44:ARG:HH21	1.82	0.43
5:1E:317:GLU:O	5:1E:321:ALA:N	2.44	0.43
4:2F:76:GLN:HB3	4:2F:116:ILE:CG2	2.48	0.43
6:4C:23:LEU:HA	6:4C:26:LEU:HB3	2.00	0.43
8:5O:32:ILE:HD11	8:5O:62:ALA:HB1	1.99	0.43
5:1C:323:TYR:HA	5:1C:327:VAL:HB	1.99	0.43
8:5T:32:ILE:HD11	8:5T:62:ALA:HB1	1.99	0.43
8:5N:32:ILE:HD11	8:5N:62:ALA:HB1	1.99	0.43
8:52:8:ASP:HB2	8:52:96:PRO:HG3	2.00	0.43
8:51:25:ALA:HB1	8:51:71:LYS:HE3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:349:VAL:HG23	1:A5:364:ALA:HB2	2.01	0.43
1:U4:182:LEU:O	1:U4:186:SER:CB	2.66	0.43
1:K4:182:LEU:O	1:K4:186:SER:OG	2.31	0.43
1:J4:134:PHE:HB3	1:J4:167:ILE:HB	2.00	0.43
1:J4:171:GLU:HA	1:J4:367:ARG:HA	2.00	0.43
1:L4:186:SER:O	1:L4:188:PHE:N	2.52	0.43
1:H4:183:LEU:HD22	1:H4:360:VAL:HG21	1.98	0.43
1:D4:256:ASP:HB2	1:E4:287:LYS:HE2	2.00	0.43
1:G4:100:TYR:O	1:H9:164:ARG:NH1	2.51	0.43
1:G4:347:LEU:HB3	1:G4:366:LYS:HB2	2.00	0.43
2:D3:32:ARG:HE	2:D3:67:ARG:HG2	1.83	0.43
2:A1:32:ARG:HE	2:A1:67:ARG:HG2	1.82	0.43
1:XO:285:VAL:HG13	1:XO:288:MET:HE2	1.99	0.43
1:BP:139:ASP:HA	1:BP:162:ILE:HA	2.00	0.43
1:BP:357:LYS:HE2	1:BP:357:LYS:N	2.33	0.43
1:RO:227:LYS:HE2	1:RO:227:LYS:HB2	1.82	0.43
1:UO:182:LEU:O	1:UO:186:SER:OG	2.33	0.43
1:UO:223:LEU:O	1:UO:227:LYS:NZ	2.35	0.43
1:KO:227:LYS:HE2	1:KO:227:LYS:HB2	1.78	0.43
1:LO:122:GLN:HG2	1:LO:123:ILE:HG23	2.01	0.43
2:AN:66:VAL:HA	2:BN:15:ALA:HB3	2.00	0.43
1:YJ:92:SER:OG	1:YJ:93:ALA:N	2.49	0.43
1:AK:108:GLU:HG3	1:AK:109:THR:HG23	2.00	0.43
1:AK:349:VAL:HG23	1:AK:364:ALA:HB2	2.01	0.43
1:QJ:125:SER:OG	1:QJ:336:GLY:O	2.26	0.43
1:WJ:172:LEU:HD12	1:VJ:147:TRP:H	1.83	0.43
1:UJ:182:LEU:O	1:UJ:186:SER:CB	2.66	0.43
1:TJ:114:LEU:HG	1:SJ:268:GLU:HG2	2.00	0.43
1:TJ:227:LYS:HE2	1:TJ:227:LYS:HB2	1.81	0.43
1:JJ:256:ASP:OD1	1:JJ:256:ASP:C	2.62	0.43
1:LJ:122:GLN:HG2	1:LJ:123:ILE:HG23	2.01	0.43
1:FJ:277:MET:HG2	1:FJ:330:ILE:HG12	1.99	0.43
2:CI:32:ARG:HE	2:CI:67:ARG:HG2	1.83	0.43
2:AH:32:ARG:HE	2:AH:67:ARG:HG2	1.82	0.43
1:UE:181:ARG:HG3	1:Q9:367:ARG:NH2	2.31	0.43
1:TE:114:LEU:HG	1:SE:268:GLU:HG2	2.00	0.43
1:IE:215:GLY:HA2	1:IE:220:THR:HG22	2.00	0.43
1:FE:143:MET:HG2	1:FE:160:PRO:HD3	2.00	0.43
2:DD:44:LEU:HA	2:DD:76:THR:HA	1.98	0.43
2:AD:67:ARG:NH2	2:BD:4:PHE:HB2	2.33	0.43
2:AC:66:VAL:HA	2:BC:15:ALA:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:126:VAL:HG12	1:AA:341:ILE:HB	2.01	0.43
1:N9:301:LEU:HD12	1:M9:297:TRP:HB2	1.99	0.43
1:U9:288:MET:HA	2:D8:6:LYS:HB3	2.00	0.43
1:U9:316:ILE:HG21	1:T9:270:ARG:HH12	1.83	0.43
1:J9:252:VAL:HG11	2:E7:3:VAL:HG11	1.96	0.43
1:D9:256:ASP:HB2	1:E9:287:LYS:HE2	2.00	0.43
2:B8:32:ARG:HE	2:B8:67:ARG:HG2	1.83	0.43
5:1A:44:ARG:HG2	5:1A:44:ARG:HH21	1.82	0.43
8:5S:32:ILE:O	8:5X:111:ASP:HA	2.18	0.43
8:5M:55:GLY:HA2	8:5R:106:MET:HE2	1.99	0.43
6:4F:72:ILE:HG21	7:3F:50:GLU:HG3	1.99	0.43
6:4F:113:LYS:HG3	6:4F:114:ALA:N	2.33	0.43
6:4F:113:LYS:HZ3	6:4F:115:ARG:HB3	1.83	0.43
5:1J:110:LEU:HD11	5:1J:122:LEU:HD11	1.98	0.43
4:2J:58:LEU:HA	4:2J:140:PHE:HD2	1.82	0.43
4:2J:83:VAL:HG12	4:2J:138:ALA:HB2	1.99	0.43
8:5E:50:TRP:CH2	8:5C:84:PHE:CE1	3.05	0.43
8:5E:57:ALA:HB1	8:5K:5:ASN:OD1	2.17	0.43
8:5K:25:ALA:HB1	8:5K:71:LYS:HE3	1.99	0.43
8:5P:41:VAL:HG21	8:5P:54:LEU:HD12	2.00	0.43
4:2F:92:VAL:HG12	4:2F:93:ASP:O	2.18	0.43
6:4C:37:PRO:HB2	7:3B:77:GLU:HG2	2.00	0.43
6:4C:72:ILE:HG21	7:3C:50:GLU:HG3	1.99	0.43
8:5C:9:LEU:HB3	8:5C:96:PRO:HD3	1.99	0.43
8:5C:12:LYS:HG2	8:5C:92:GLN:O	2.17	0.43
8:5U:33:SER:CB	8:5T:111:ASP:HB3	2.48	0.43
7:3B:79:ARG:HD2	7:3B:86:ILE:HB	2.00	0.43
8:5H:8:ASP:HB2	8:5H:96:PRO:HG3	2.00	0.43
8:5H:41:VAL:HG21	8:5H:54:LEU:HD12	2.00	0.43
8:5N:41:VAL:HG21	8:5N:54:LEU:HD12	2.00	0.43
10:8A:863:GLY:H	10:8A:892:ALA:HB3	1.83	0.43
8:52:46:SER:HB2	11:6D:195:PHE:HZ	1.83	0.43
11:6D:37:ASN:OD1	11:6D:38:SER:N	2.51	0.43
11:6D:77:ARG:HH22	11:6D:175:PHE:N	2.17	0.43
11:6D:157:GLY:O	11:6D:172:THR:OG1	2.32	0.43
1:C5:310:MET:HE1	1:X4:301:LEU:HD22	1.99	0.43
1:N4:263:TYR:OH	1:O4:286:ARG:NH1	2.51	0.43
1:Q4:179:SER:HA	1:Q4:359:HIS:HA	2.00	0.43
1:K4:145:SER:HB3	1:L4:172:LEU:HD11	2.00	0.43
1:L4:122:GLN:HG2	1:L4:123:ILE:HG23	2.01	0.43
1:L4:285:VAL:HA	1:L4:288:MET:HE2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D4:177:LYS:HA	1:D4:361:LEU:HA	2.00	0.43
1:E4:129:VAL:HG21	1:E4:134:PHE:HB2	2.00	0.43
2:C2:72:LEU:O	2:C2:76:THR:OG1	2.32	0.43
1:NO:328:TYR:HB3	1:NO:380:LEU:HD23	2.00	0.43
1:MO:352:ASP:N	1:MO:352:ASP:OD1	2.51	0.43
1:OO:382:LYS:HE2	1:OO:384:ALA:HB2	1.99	0.43
1:UO:288:MET:HA	2:DN:6:LYS:HB3	2.00	0.43
1:KO:277:MET:O	1:KO:317:ALA:N	2.49	0.43
1:KO:291:ALA:O	2:DM:10:SER:HB2	2.19	0.43
1:JO:256:ASP:OD1	1:JO:256:ASP:C	2.62	0.43
1:VO:343:GLU:HB3	1:VO:368:VAL:HG23	2.01	0.43
1:GO:347:LEU:HB3	1:GO:366:LYS:HB2	2.00	0.43
2:AM:66:VAL:HA	2:BM:15:ALA:HB3	2.00	0.43
1:YJ:277:MET:O	1:YJ:317:ALA:N	2.50	0.43
1:QJ:277:MET:HG2	1:QJ:330:ILE:HG12	1.99	0.43
1:UJ:347:LEU:HD23	1:UJ:366:LYS:HB3	1.99	0.43
1:SJ:343:GLU:HB3	1:SJ:368:VAL:HG23	2.00	0.43
1:HJ:121:ARG:NH1	1:HJ:343:GLU:OE2	2.50	0.43
1:IJ:255:SER:HB2	1:IJ:297:TRP:CZ2	2.53	0.43
1:IJ:289:LYS:HD2	2:CH:7:HIS:CE1	2.54	0.43
1:DJ:102:VAL:HG22	1:CJ:132:THR:HB	2.01	0.43
2:CH:32:ARG:HE	2:CH:67:ARG:HG2	1.83	0.43
1:AF:108:GLU:HG3	1:AF:109:THR:HG23	2.00	0.43
1:NE:301:LEU:HD12	1:ME:297:TRP:HB2	2.00	0.43
1:OE:348:ARG:NH2	1:SE:184:ASP:OD2	2.50	0.43
1:KE:149:SER:HB2	1:KE:152:ALA:HB2	1.99	0.43
1:FE:277:MET:HG2	1:FE:330:ILE:HG12	1.99	0.43
1:Y9:277:MET:O	1:Y9:317:ALA:N	2.50	0.43
1:I9:289:LYS:HD2	2:C7:7:HIS:CE1	2.54	0.43
1:A9:322:ASP:OD1	1:A9:322:ASP:N	2.47	0.43
1:F9:227:LYS:HE2	1:F9:227:LYS:HB2	1.80	0.43
2:E8:66:VAL:HA	2:A8:15:ALA:HB3	1.99	0.43
2:A7:67:ARG:NH2	2:B7:4:PHE:HB2	2.33	0.43
8:5S:86:GLY:HA3	8:5T:60:ARG:NH1	2.33	0.43
8:5M:8:ASP:HB2	8:5M:96:PRO:HG3	2.00	0.43
5:1K:317:GLU:O	5:1K:321:ALA:N	2.44	0.43
6:4F:11:ALA:HA	7:3E:22:ALA:HA	2.00	0.43
8:5F:92:GLN:HE21	8:5F:94:ILE:HD11	1.83	0.43
8:5L:8:ASP:HB2	8:5L:96:PRO:HG3	2.00	0.43
4:2J:5:GLU:OE2	4:2J:61:ARG:NE	2.49	0.43
8:5E:50:TRP:HB2	8:5D:131:ALA:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5W:36:ALA:HB3	8:5V:108:THR:HA	2.01	0.43
4:2E:188:ARG:O	5:1D:240:GLN:NE2	2.51	0.43
5:1E:220:ARG:HE	5:1E:275:PHE:HB2	1.83	0.43
8:5C:57:ALA:HB1	8:5I:5:ASN:OD1	2.17	0.43
8:5O:8:ASP:HB2	8:5O:96:PRO:HG3	2.00	0.43
8:5O:41:VAL:HG21	8:5O:54:LEU:HD12	2.00	0.43
8:5B:9:LEU:HB3	8:5B:96:PRO:HD3	1.99	0.43
8:5T:41:VAL:HG21	8:5T:54:LEU:HD12	2.00	0.43
8:5H:25:ALA:HB1	8:5H:71:LYS:HE3	1.99	0.43
10:8A:784:VAL:CG1	10:8A:787:LEU:HD12	2.42	0.43
11:6B:5:GLU:HG2	11:6C:165:PRO:HD2	2.00	0.43
8:5Z:32:ILE:HD11	8:5Z:62:ALA:HB1	1.99	0.43
8:5Z:111:ASP:CB	8:50:33:SER:HA	2.47	0.43
11:6E:36:ARG:HE	11:6D:73:LEU:HA	1.83	0.43
10:8B:782:ILE:HG23	10:8B:782:ILE:O	2.18	0.43
10:8B:863:GLY:H	10:8B:892:ALA:HB3	1.83	0.43
11:6C:77:ARG:HH22	11:6C:175:PHE:N	2.16	0.43
8:50:25:ALA:HB1	8:50:71:LYS:HE3	1.99	0.43
1:C5:129:VAL:HG11	1:C5:342:ALA:HB1	1.98	0.43
1:O4:263:TYR:OH	1:P4:286:ARG:NH2	2.47	0.43
1:P4:126:VAL:HA	1:P4:341:ILE:O	2.18	0.43
1:V4:92:SER:HB2	1:XO:182:LEU:HB2	2.00	0.43
1:G4:223:LEU:O	1:G4:227:LYS:NZ	2.33	0.43
2:D3:36:LEU:HD11	2:D3:68:PRO:HG2	2.01	0.43
2:A3:36:LEU:HD11	2:A3:68:PRO:HG2	2.01	0.43
2:C3:14:PRO:HD2	2:B3:11:LEU:HD23	2.00	0.43
1:BP:290:ASP:OD1	1:BP:294:ARG:N	2.49	0.43
1:QO:344:ARG:HE	1:QO:367:ARG:HD3	1.84	0.43
1:OO:227:LYS:HE2	1:OO:227:LYS:HB2	1.77	0.43
1:OO:297:TRP:HB2	1:PO:301:LEU:HD12	2.00	0.43
1:PO:277:MET:HG2	1:PO:330:ILE:HG12	2.00	0.43
1:IO:354:PHE:HD1	1:FJ:352:ASP:HB3	1.82	0.43
2:AL:32:ARG:HE	2:AL:67:ARG:HG2	1.82	0.43
1:MJ:223:LEU:O	1:MJ:227:LYS:NZ	2.35	0.43
1:QJ:179:SER:HA	1:QJ:359:HIS:HA	2.00	0.43
1:OJ:227:LYS:HG2	1:OJ:380:LEU:HD22	2.01	0.43
1:WJ:145:SER:HB3	1:SJ:172:LEU:HD11	2.00	0.43
1:UJ:268:GLU:HG2	1:VJ:114:LEU:HG	1.99	0.43
1:UJ:316:ILE:HG21	1:TJ:270:ARG:HH12	1.83	0.43
1:KJ:324:ALA:HB3	1:KJ:327:ALA:HB2	2.01	0.43
1:JJ:242:ALA:HA	1:JJ:382:LYS:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HJ:269:TYR:OH	1:HJ:374:ASP:OD2	2.34	0.43
1:DJ:114:LEU:HB3	1:CJ:268:GLU:HG2	1.99	0.43
1:EJ:329:ALA:HB3	1:EJ:383:PHE:HE2	1.82	0.43
1:GJ:347:LEU:HB3	1:GJ:366:LYS:HB2	2.00	0.43
2:BI:32:ARG:HE	2:BI:67:ARG:HG2	1.83	0.43
1:PE:125:SER:OG	1:PE:336:GLY:O	2.32	0.43
1:PE:126:VAL:HA	1:PE:341:ILE:O	2.18	0.43
1:WE:223:LEU:O	1:WE:227:LYS:NZ	2.37	0.43
1:JE:256:ASP:OD1	1:JE:256:ASP:C	2.62	0.43
1:VE:343:GLU:HB3	1:VE:368:VAL:HG23	2.01	0.43
1:EE:328:TYR:HB3	1:EE:380:LEU:HD23	2.00	0.43
2:DD:36:LEU:HD11	2:DD:68:PRO:HG2	2.01	0.43
2:CC:32:ARG:HE	2:CC:67:ARG:HG2	1.83	0.43
1:CA:310:MET:HE1	1:X9:301:LEU:HD22	1.99	0.43
1:AA:349:VAL:HG23	1:AA:364:ALA:HB2	2.01	0.43
1:N9:263:TYR:OH	1:O9:286:ARG:NH1	2.51	0.43
1:P9:277:MET:O	1:P9:317:ALA:N	2.47	0.43
1:W9:172:LEU:HD12	1:V9:147:TRP:H	1.83	0.43
1:W9:382:LYS:HE2	1:W9:384:ALA:HB2	2.00	0.43
1:L9:285:VAL:HA	1:L9:288:MET:HE2	2.00	0.43
1:D9:114:LEU:HB3	1:C9:268:GLU:HG2	1.99	0.43
1:E9:328:TYR:HB3	1:E9:380:LEU:HD23	2.00	0.43
2:A6:36:LEU:HD11	2:A6:68:PRO:HG2	2.01	0.43
2:D7:36:LEU:HD11	2:D7:68:PRO:HG2	2.01	0.43
2:B7:32:ARG:HE	2:B7:67:ARG:HG2	1.83	0.43
4:2A:110:ASP:OD1	4:2A:111:MET:N	2.52	0.43
8:5A:40:ASP:O	8:5L:119:GLU:OE2	2.36	0.43
8:5M:111:ASP:OD2	8:5N:31:ARG:NH1	2.51	0.43
4:2K:93:ASP:OD1	4:2K:96:GLY:N	2.50	0.43
4:2I:188:ARG:O	5:1H:240:GLN:NE2	2.51	0.43
5:1I:251:HIS:HB3	4:2J:193:LEU:HD13	2.01	0.43
4:2J:92:VAL:HG12	4:2J:93:ASP:O	2.18	0.43
7:3E:19:ALA:HA	7:3E:25:HIS:HA	2.00	0.43
8:5W:50:TRP:HA	8:5V:60:ARG:HG3	2.01	0.43
4:2G:92:VAL:CG1	4:2G:96:GLY:HA2	2.49	0.43
5:1G:177:CYS:HB2	5:1G:341:TRP:CD2	2.53	0.43
8:5D:53:LEU:HG	8:5C:106:MET:HE3	2.00	0.43
8:5V:9:LEU:HD21	8:5U:113:ALA:C	2.43	0.43
8:5V:41:VAL:HG21	8:5V:54:LEU:HD12	2.00	0.43
8:5P:32:ILE:HD11	8:5P:62:ALA:HB1	1.99	0.43
7:3C:53:THR:OG1	6:4B:119:LYS:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5U:60:ARG:NH2	8:5T:83:PHE:O	2.51	0.43
8:5U:134:PHE:HB2	8:5T:84:PHE:HE2	1.84	0.43
5:1C:220:ARG:HE	5:1C:275:PHE:HB2	1.83	0.43
5:1C:225:ILE:HD11	5:1C:268:LEU:HD22	2.00	0.43
6:4B:113:LYS:HZ3	6:4B:115:ARG:HB3	1.83	0.43
11:6A:48:ASP:HA	11:6A:204:PRO:HA	2.00	0.43
11:6E:77:ARG:HH22	11:6E:175:PHE:N	2.16	0.43
8:52:32:ILE:HD11	8:52:62:ALA:HB1	1.99	0.43
8:53:66:GLY:O	8:53:124:LEU:N	2.47	0.43
11:6C:192:VAL:O	11:6C:192:VAL:HG13	2.18	0.43
1:A5:108:GLU:HG3	1:A5:109:THR:HG23	2.00	0.43
1:A5:138:VAL:HG23	1:A5:163:ASP:HB3	2.00	0.43
1:B5:261:LEU:HD13	1:B5:381:LEU:HB2	2.01	0.43
1:Q4:294:ARG:HH21	1:Q4:299:ASP:HB2	1.84	0.43
1:W4:172:LEU:HD12	1:V4:147:TRP:H	1.83	0.43
1:D4:102:VAL:HG22	1:C4:132:THR:HB	2.01	0.43
2:E3:66:VAL:HA	2:A3:15:ALA:HB3	1.99	0.43
2:A2:67:ARG:NH2	2:B2:4:PHE:HB2	2.33	0.43
1:UO:316:ILE:HG21	1:TO:270:ARG:HH12	1.83	0.43
1:TO:242:ALA:HA	1:TO:382:LYS:O	2.19	0.43
1:HO:343:GLU:HB3	1:HO:368:VAL:HG23	1.99	0.43
1:IO:289:LYS:HD2	2:CM:7:HIS:CE1	2.54	0.43
1:FO:143:MET:HG2	1:FO:160:PRO:HD3	2.00	0.43
1:FO:227:LYS:HG2	1:FO:380:LEU:HD22	2.00	0.43
1:XJ:189:ASP:OD1	1:XJ:189:ASP:N	2.47	0.43
1:AK:225:LYS:HZ1	1:AK:371:ASP:HB2	1.84	0.43
1:WJ:290:ASP:HA	2:AI:8:ALA:HB3	2.01	0.43
1:UJ:288:MET:HA	2:DI:6:LYS:HB3	2.00	0.43
1:TJ:242:ALA:HA	1:TJ:382:LYS:O	2.19	0.43
1:KJ:111:ARG:NH1	1:JJ:340:THR:OG1	2.43	0.43
1:IJ:343:GLU:HB3	1:IJ:368:VAL:HG23	2.00	0.43
1:GJ:150:GLU:HB3	1:CJ:93:ALA:HB2	2.01	0.43
2:AI:11:LEU:HD23	2:BI:14:PRO:HD2	2.00	0.43
2:AH:36:LEU:HD11	2:AH:68:PRO:HG2	2.01	0.43
1:AF:349:VAL:HG23	1:AF:364:ALA:HB2	2.01	0.43
1:OE:227:LYS:HG2	1:OE:380:LEU:HD22	2.01	0.43
1:KE:106:THR:HA	1:JE:135:ASP:HB2	2.00	0.43
1:JE:134:PHE:HB3	1:JE:167:ILE:HB	2.00	0.43
1:LE:227:LYS:HE2	1:LE:227:LYS:HB2	1.87	0.43
1:CE:181:ARG:NH2	1:A9:148:ALA:O	2.51	0.43
2:BD:36:LEU:HD11	2:BD:68:PRO:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BD:45:VAL:HG12	2:BD:55:THR:HG22	2.01	0.43
2:AB:36:LEU:HD11	2:AB:68:PRO:HG2	2.01	0.43
1:I9:324:ALA:HB3	1:I9:327:ALA:HB2	2.00	0.43
1:C9:352:ASP:OD2	1:C9:355:SER:OG	2.33	0.43
2:A7:19:TYR:OH	2:A7:31:ARG:O	2.23	0.43
8:5A:9:LEU:HB3	8:5A:96:PRO:HD3	1.99	0.43
8:5A:84:PHE:CE1	8:5C:50:TRP:HH2	2.36	0.43
8:5S:61:SER:HB2	8:5T:51:ARG:CZ	2.48	0.43
8:5G:8:ASP:HB2	8:5G:96:PRO:HG3	2.00	0.43
5:1L:75:PRO:HG2	5:1L:358:GLN:HE22	1.83	0.43
7:3F:19:ALA:HA	7:3F:25:HIS:HA	2.00	0.43
8:5L:41:VAL:HG21	8:5L:54:LEU:HD12	2.00	0.43
4:2I:92:VAL:CG1	4:2I:96:GLY:HA2	2.49	0.43
6:4E:37:PRO:HB2	7:3D:77:GLU:HG2	2.00	0.43
4:2G:110:ASP:OD1	4:2G:111:MET:N	2.52	0.43
5:1G:220:ARG:HE	5:1G:275:PHE:HB2	1.83	0.43
7:3D:19:ALA:HA	7:3D:25:HIS:HA	2.00	0.43
8:5D:95:ILE:CB	8:5D:98:PHE:HB2	2.40	0.43
5:1E:239:GLU:OE2	4:2F:111:MET:SD	2.76	0.43
6:4C:70:SER:OG	6:4C:126:ASP:OD1	2.36	0.43
8:5U:25:ALA:HB1	8:5U:71:LYS:HE3	1.99	0.43
8:5T:43:SER:HB3	8:5Y:71:LYS:NZ	2.33	0.43
8:5Z:8:ASP:HB2	8:5Z:96:PRO:HG3	2.00	0.43
10:8C:782:ILE:O	10:8C:782:ILE:HG23	2.19	0.43
11:6E:157:GLY:O	11:6E:172:THR:OG1	2.35	0.43
8:53:8:ASP:HB2	8:53:96:PRO:HG3	2.00	0.43
9:7B:278:TRP:HZ3	10:8B:85:VAL:HG21	1.83	0.43
10:8B:161:ILE:HG12	10:8B:182:GLU:HG2	1.99	0.43
8:50:114:GLY:HA3	8:51:9:LEU:CD2	2.45	0.43
1:Y4:277:MET:O	1:Y4:317:ALA:N	2.50	0.43
1:N4:281:THR:HA	1:N4:323:ILE:HD11	2.01	0.43
1:O4:211:ILE:HD12	1:O4:319:ASP:HB2	2.01	0.43
1:I4:289:LYS:HD2	2:C2:7:HIS:CE1	2.54	0.43
1:E4:171:GLU:HA	1:E4:367:ARG:HA	2.00	0.43
1:E4:265:LEU:HD21	1:E4:269:TYR:HB2	1.99	0.43
1:B4:223:LEU:O	1:B4:227:LYS:NZ	2.34	0.43
2:A2:66:VAL:HA	2:B2:15:ALA:HB3	2.00	0.43
1:YO:265:LEU:HD23	1:YO:379:LYS:HG2	2.00	0.43
1:AP:138:VAL:HG23	1:AP:163:ASP:HB3	2.00	0.43
1:AP:170:HIS:CE1	4:2I:125:MET:HE3	2.53	0.43
1:OO:227:LYS:HG2	1:OO:380:LEU:HD22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WO:172:LEU:HD12	1:VO:147:TRP:H	1.83	0.43
1:DO:114:LEU:HB3	1:CO:268:GLU:HG2	1.99	0.43
1:DO:352:ASP:N	1:DO:352:ASP:OD1	2.50	0.43
2:EN:72:LEU:O	2:EN:76:THR:OG1	2.32	0.43
2:CM:36:LEU:HD11	2:CM:68:PRO:HG2	2.01	0.43
1:XJ:90:LEU:HB3	1:XJ:91:ASN:H	1.63	0.43
1:NJ:328:TYR:HB3	1:NJ:380:LEU:HD23	2.00	0.43
1:MJ:157:THR:CG2	1:MJ:158:ALA:H	2.30	0.43
1:MJ:162:ILE:H	1:MJ:162:ILE:HG13	1.63	0.43
2:CI:36:LEU:HD11	2:CI:68:PRO:HG2	2.01	0.43
2:AG:4:PHE:HB2	2:AB:67:ARG:NH2	2.34	0.43
2:BH:45:VAL:HG12	2:BH:55:THR:HG22	2.01	0.43
1:AF:135:ASP:OD2	4:2E:121:ALA:HB3	2.18	0.43
1:NE:263:TYR:OH	1:OE:286:ARG:NH1	2.51	0.43
1:WE:145:SER:HB3	1:SE:172:LEU:HD11	2.00	0.43
1:HE:343:GLU:HB3	1:HE:368:VAL:HG23	1.99	0.43
1:DE:352:ASP:OD1	1:DE:352:ASP:N	2.50	0.43
2:DD:19:TYR:OH	2:DD:31:ARG:O	2.23	0.43
2:AD:19:TYR:OH	2:AD:31:ARG:O	2.23	0.43
2:AC:36:LEU:HD11	2:AC:68:PRO:HG2	2.01	0.43
2:BC:32:ARG:HE	2:BC:67:ARG:HG2	1.83	0.43
1:X9:223:LEU:O	1:X9:227:LYS:NZ	2.34	0.43
1:O9:211:ILE:HD12	1:O9:319:ASP:HB2	2.01	0.43
1:D9:102:VAL:HG22	1:C9:132:THR:HB	2.01	0.43
1:E9:132:THR:HG21	1:F9:102:VAL:HG22	1.99	0.43
2:E8:45:VAL:HG12	2:E8:55:THR:HG22	2.01	0.43
2:B8:45:VAL:HG12	2:B8:55:THR:HG22	2.01	0.43
2:E7:36:LEU:HD11	2:E7:68:PRO:HG2	2.01	0.43
2:D7:32:ARG:HE	2:D7:67:ARG:HG2	1.83	0.43
4:2B:5:GLU:OE2	4:2B:61:ARG:NE	2.49	0.43
8:5S:32:ILE:CG2	8:5X:112:TYR:HB2	2.48	0.43
8:5S:35:ASN:C	8:5X:108:THR:O	2.62	0.43
8:5S:80:ARG:HD3	8:5T:134:PHE:CD1	2.54	0.43
8:5S:112:TYR:H	8:5T:32:ILE:HG23	1.83	0.43
8:5S:117:ASN:O	8:5N:57:ALA:O	2.37	0.43
8:5M:71:LYS:HG2	8:5N:3:ALA:N	2.33	0.43
4:2K:110:ASP:OD1	4:2K:111:MET:N	2.52	0.43
7:3F:15:ALA:HB2	7:3F:29:TRP:CD2	2.54	0.43
8:5F:41:VAL:CG2	8:5F:54:LEU:HB2	2.44	0.43
8:5F:94:ILE:CD1	8:5F:100:ILE:HG22	2.49	0.43
6:4E:4:ALA:HB1	6:4E:101:ARG:HH11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5E:92:GLN:HE21	8:5E:94:ILE:HD11	1.83	0.43
8:5E:94:ILE:CD1	8:5E:100:ILE:HG22	2.49	0.43
5:1G:239:GLU:OE2	4:2H:111:MET:SD	2.76	0.43
6:4D:111:ARG:NH1	6:4D:111:ARG:H	2.16	0.43
8:5D:12:LYS:HG2	8:5D:92:GLN:O	2.17	0.43
8:5V:32:ILE:O	8:5U:111:ASP:CB	2.66	0.43
8:5C:50:TRP:CD1	8:5B:131:ALA:CA	3.02	0.43
8:5C:92:GLN:HE21	8:5C:94:ILE:HD11	1.83	0.43
8:5C:94:ILE:HA	8:5C:100:ILE:HA	1.99	0.43
5:1C:239:GLU:OE2	4:2D:111:MET:SD	2.76	0.43
11:6A:77:ARG:HH22	11:6A:175:PHE:N	2.16	0.43
8:5Y:46:SER:HB2	11:6F:195:PHE:HZ	1.84	0.43
8:5Z:41:VAL:HG21	8:5Z:54:LEU:HD12	2.00	0.43
11:6E:192:VAL:O	11:6E:192:VAL:HG13	2.18	0.43
1:P4:277:MET:HG2	1:P4:330:ILE:HG12	2.00	0.43
1:U4:182:LEU:O	1:U4:186:SER:OG	2.33	0.43
1:U4:316:ILE:HG21	1:T4:270:ARG:HH12	1.83	0.43
1:T4:242:ALA:HA	1:T4:382:LYS:O	2.19	0.43
1:D4:167:ILE:HD12	1:D4:370:GLY:HA2	2.00	0.43
1:D4:253:ASN:HD21	1:E4:289:LYS:HD2	1.84	0.43
2:E3:45:VAL:HG12	2:E3:55:THR:HG22	2.01	0.43
2:D3:19:TYR:OH	2:D3:31:ARG:O	2.23	0.43
2:A1:4:PHE:HB2	2:AL:67:ARG:NH2	2.34	0.43
2:A1:36:LEU:HD11	2:A1:68:PRO:HG2	2.01	0.43
2:A2:54:VAL:HG21	2:B2:81:VAL:HG21	2.01	0.43
1:XO:352:ASP:HB3	1:QO:354:PHE:CD1	2.53	0.43
1:AP:100:TYR:O	1:BK:164:ARG:NH1	2.52	0.43
1:BP:265:LEU:HD21	1:BP:269:TYR:HB2	2.01	0.43
1:NO:277:MET:HG2	1:NO:330:ILE:HG12	2.00	0.43
1:KO:324:ALA:HB3	1:KO:327:ALA:HB2	2.01	0.43
1:IO:215:GLY:HA2	1:IO:220:THR:HG22	2.00	0.43
1:IO:256:ASP:OD1	1:IO:256:ASP:N	2.51	0.43
2:DN:32:ARG:HE	2:DN:67:ARG:HG2	1.83	0.43
2:AN:67:ARG:NH2	2:BN:4:PHE:HB2	2.33	0.43
1:AK:281:THR:HG23	1:AK:323:ILE:HD11	1.99	0.43
1:BK:265:LEU:HD21	1:BK:269:TYR:HB2	2.01	0.43
1:WJ:134:PHE:HB3	1:WJ:167:ILE:HB	2.01	0.43
1:JJ:116:SER:HA	1:IJ:268:GLU:HB2	2.00	0.43
1:JJ:171:GLU:HA	1:JJ:367:ARG:HA	2.00	0.43
1:LJ:285:VAL:HA	1:LJ:288:MET:HE2	2.00	0.43
1:HJ:162:ILE:HD13	1:GE:101:LEU:HD21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DJ:352:ASP:OD1	1:DJ:352:ASP:N	2.50	0.43
1:EJ:90:LEU:HB3	1:EJ:91:ASN:H	1.62	0.43
1:FJ:263:TYR:OH	1:GJ:305:GLU:OE1	2.26	0.43
2:DI:45:VAL:HG12	2:DI:55:THR:HG22	2.01	0.43
2:AI:54:VAL:HG21	2:BI:81:VAL:HG21	2.01	0.43
2:AI:67:ARG:NH2	2:BI:4:PHE:HB2	2.33	0.43
2:DH:45:VAL:HG12	2:DH:55:THR:HG22	2.01	0.43
1:CF:129:VAL:HG11	1:CF:342:ALA:HB1	1.99	0.43
1:YE:265:LEU:HD23	1:YE:379:LYS:HG2	2.00	0.43
1:AF:126:VAL:HG12	1:AF:341:ILE:HB	2.01	0.43
1:QE:294:ARG:HH21	1:QE:299:ASP:HB2	1.84	0.43
1:KE:363:TYR:HE1	1:JE:154:LEU:HD22	1.84	0.43
1:JE:171:GLU:HA	1:JE:367:ARG:HA	2.00	0.43
1:JE:242:ALA:HA	1:JE:382:LYS:O	2.18	0.43
1:LE:186:SER:O	1:LE:188:PHE:N	2.52	0.43
1:DE:177:LYS:HA	1:DE:361:LEU:HA	2.00	0.43
2:AD:54:VAL:HG21	2:BD:81:VAL:HG21	2.01	0.43
2:DC:45:VAL:HG12	2:DC:55:THR:HG22	2.01	0.43
1:U9:111:ARG:NH1	1:T9:340:THR:OG1	2.35	0.43
1:L9:252:VAL:HG13	2:B7:4:PHE:CE1	2.52	0.43
2:A8:36:LEU:HD11	2:A8:68:PRO:HG2	2.01	0.43
2:D7:19:TYR:OH	2:D7:31:ARG:O	2.23	0.43
5:1A:239:GLU:OE2	4:2B:111:MET:SD	2.76	0.43
6:4A:82:LYS:NZ	6:4B:50:GLU:OE2	2.47	0.43
8:5S:41:VAL:HG21	8:5S:54:LEU:HD12	2.00	0.43
5:1K:184:PRO:HD3	5:1J:54:PHE:HE2	1.84	0.43
5:1K:225:ILE:HD11	5:1K:268:LEU:HD22	2.00	0.43
8:5X:134:PHE:CD2	8:5W:80:ARG:NE	2.87	0.43
8:5R:8:ASP:HB2	8:5R:96:PRO:HG3	2.00	0.43
5:1I:220:ARG:HE	5:1I:275:PHE:HB2	1.83	0.43
5:1G:251:HIS:HB3	4:2H:193:LEU:HD13	2.01	0.43
8:5D:94:ILE:HA	8:5D:100:ILE:HA	1.99	0.43
8:5V:8:ASP:HB2	8:5V:96:PRO:HG3	2.00	0.43
8:5V:35:ASN:HA	8:5U:109:SER:HB3	2.01	0.43
4:2E:92:VAL:CG1	4:2E:96:GLY:HA2	2.49	0.43
8:5O:134:PHE:CE2	8:5N:80:ARG:NE	2.87	0.43
5:1D:71:THR:HB	5:1D:331:LEU:HD23	2.00	0.43
5:1D:75:PRO:HG2	5:1D:358:GLN:HE22	1.83	0.43
8:5B:94:ILE:CD1	8:5B:100:ILE:HG22	2.49	0.43
8:5N:8:ASP:HB2	8:5N:96:PRO:HG3	2.00	0.43
9:7A:69:ASN:OD1	9:7A:69:ASN:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:6B:37:ASN:OD1	11:6B:38:SER:N	2.51	0.43
11:6B:77:ARG:HH22	11:6B:175:PHE:N	2.17	0.43
11:6B:186:ASP:OD1	11:6B:186:ASP:N	2.52	0.43
11:6B:192:VAL:HG13	11:6B:192:VAL:O	2.19	0.43
1:Y4:348:ARG:O	1:Y4:364:ALA:HA	2.19	0.43
1:Q4:104:PRO:HB3	1:P4:133:SER:HB2	2.00	0.43
2:B2:36:LEU:HD11	2:B2:68:PRO:HG2	2.01	0.43
1:XO:223:LEU:O	1:XO:227:LYS:NZ	2.34	0.43
1:YO:300:SER:OG	1:YO:302:ALA:O	2.36	0.43
1:ZO:299:ASP:OD1	1:ZO:299:ASP:N	2.52	0.43
1:MO:265:LEU:HA	1:MO:379:LYS:HG3	2.01	0.43
1:OO:348:ARG:NH2	1:SO:184:ASP:OD2	2.50	0.43
1:JO:116:SER:HA	1:IO:268:GLU:HB2	2.00	0.43
1:JO:171:GLU:HA	1:JO:367:ARG:HA	2.00	0.43
1:DO:167:ILE:HD12	1:DO:370:GLY:HA2	2.00	0.43
2:EN:32:ARG:HE	2:EN:67:ARG:HG2	1.83	0.43
2:EN:36:LEU:HD11	2:EN:68:PRO:HG2	2.01	0.43
2:DN:81:VAL:HG21	2:CN:54:VAL:HG21	2.01	0.43
2:CM:14:PRO:HD2	2:BM:11:LEU:HD23	2.00	0.43
1:WJ:106:THR:HA	1:VJ:135:ASP:HB2	2.01	0.43
1:KJ:291:ALA:O	2:DH:10:SER:HB2	2.19	0.43
1:JJ:101:LEU:HD22	1:ME:190:ILE:HD11	2.00	0.43
1:EJ:171:GLU:HA	1:EJ:367:ARG:HA	2.00	0.43
1:XE:90:LEU:HB3	1:XE:91:ASN:H	1.63	0.43
1:ME:352:ASP:N	1:ME:352:ASP:OD1	2.51	0.43
1:WE:134:PHE:HB3	1:WE:167:ILE:HB	2.01	0.43
1:WE:382:LYS:HE2	1:WE:384:ALA:HB2	2.00	0.43
1:IE:289:LYS:HD2	2:CC:7:HIS:CE1	2.54	0.43
1:IE:324:ALA:HB3	1:IE:327:ALA:HB2	2.00	0.43
2:ED:45:VAL:HG12	2:ED:55:THR:HG22	2.01	0.43
2:DC:36:LEU:HD11	2:DC:68:PRO:HG2	2.01	0.43
2:AC:11:LEU:HD23	2:BC:14:PRO:HD2	2.00	0.43
2:AC:45:VAL:HG12	2:AC:55:THR:HG22	2.01	0.43
1:Y9:263:TYR:OH	1:Z9:305:GLU:OE1	2.28	0.43
1:AA:138:VAL:HG23	1:AA:163:ASP:HB3	1.99	0.43
1:AA:143:MET:O	1:BA:201:LYS:NZ	2.49	0.43
1:AA:219:PRO:CG	1:AA:368:VAL:O	2.66	0.43
1:N9:277:MET:HG2	1:N9:330:ILE:HG12	2.00	0.43
2:D8:36:LEU:HD11	2:D8:68:PRO:HG2	2.01	0.43
2:A6:45:VAL:HG12	2:A6:55:THR:HG22	2.01	0.43
2:D7:81:VAL:HG21	2:C7:54:VAL:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C7:14:PRO:HD2	2:B7:11:LEU:HD23	2.00	0.43
4:2L:92:VAL:HG12	4:2L:93:ASP:O	2.18	0.43
8:5F:27:LEU:O	8:5F:27:LEU:CD1	2.61	0.43
8:5X:8:ASP:HB2	8:5X:96:PRO:HG3	2.00	0.43
4:2I:110:ASP:OD1	4:2I:111:MET:N	2.52	0.43
5:1I:44:ARG:HG2	5:1I:44:ARG:HH21	1.82	0.43
8:5Q:3:ALA:CA	8:5P:71:LYS:HG2	2.49	0.43
8:5Q:8:ASP:HB2	8:5Q:96:PRO:HG3	2.00	0.43
4:2H:58:LEU:HA	4:2H:140:PHE:HD2	1.82	0.43
8:5D:92:GLN:HE21	8:5D:94:ILE:HD11	1.83	0.43
4:2E:110:ASP:OD1	4:2E:111:MET:N	2.52	0.43
4:2F:5:GLU:OE2	4:2F:61:ARG:NE	2.49	0.43
8:5I:41:VAL:HG21	8:5I:54:LEU:HD12	2.00	0.43
8:5O:97:ASP:HB3	8:5N:72:ASP:HB2	2.00	0.43
5:1C:44:ARG:HG2	5:1C:44:ARG:HH21	1.82	0.43
6:4B:4:ALA:HB1	6:4B:101:ARG:HH11	1.83	0.43
7:3B:15:ALA:HB2	7:3B:29:TRP:CD2	2.54	0.43
8:5T:43:SER:HB3	8:5Y:71:LYS:HZ3	1.83	0.43
11:6A:17:VAL:HA	11:6F:190:VAL:O	2.18	0.43
8:5Y:41:VAL:HG21	8:5Y:54:LEU:HD12	2.00	0.43
8:5Z:25:ALA:HB1	8:5Z:71:LYS:HE3	1.99	0.43
8:5Z:71:LYS:HG2	8:5O:3:ALA:CA	2.49	0.43
11:6C:48:ASP:HA	11:6C:204:PRO:HA	2.00	0.43
1:C5:110:ILE:HD11	1:C5:193:TRP:CE2	2.54	0.43
1:N4:328:TYR:HB3	1:N4:380:LEU:HD23	2.00	0.43
1:R4:167:ILE:HG21	1:R4:342:ALA:HB3	2.01	0.43
1:Q4:344:ARG:HE	1:Q4:367:ARG:HD3	1.84	0.43
1:V4:181:ARG:HH21	1:CP:171:GLU:HG2	1.84	0.43
1:H4:162:ILE:HD13	1:GO:101:LEU:HD21	2.00	0.43
2:A2:45:VAL:HG12	2:A2:55:THR:HG22	2.01	0.43
1:ZO:251:ALA:C	1:ZO:252:VAL:HG22	2.44	0.43
1:ZO:290:ASP:OD1	1:ZO:290:ASP:N	2.45	0.43
1:JO:101:LEU:HD22	1:MJ:190:ILE:HD11	2.00	0.43
1:IO:343:GLU:HB3	1:IO:368:VAL:HG23	2.00	0.43
1:GO:277:MET:HG2	1:GO:330:ILE:HG12	2.01	0.43
2:AN:11:LEU:HD23	2:BN:14:PRO:HD2	2.00	0.43
2:AM:36:LEU:HD11	2:AM:68:PRO:HG2	2.01	0.43
2:BM:45:VAL:HG12	2:BM:55:THR:HG22	2.01	0.43
1:YJ:175:MET:HE3	1:YJ:361:LEU:HD11	2.01	0.43
1:AK:206:GLU:OE1	1:AK:368:VAL:HG11	2.19	0.43
1:QJ:344:ARG:HE	1:QJ:367:ARG:HD3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:171:GLU:HA	1:AJ:367:ARG:HA	2.01	0.43
1:DJ:149:SER:HB3	1:DJ:152:ALA:HB2	2.01	0.43
1:DJ:256:ASP:HB2	1:EJ:287:LYS:HE2	2.00	0.43
2:DH:81:VAL:HG21	2:CH:54:VAL:HG21	2.01	0.43
1:YE:348:ARG:O	1:YE:364:ALA:HA	2.19	0.43
1:TE:269:TYR:OH	1:TE:374:ASP:OD2	2.30	0.43
1:VE:277:MET:O	1:VE:317:ALA:N	2.50	0.43
1:DE:140:LYS:HG3	1:DE:141:THR:HG23	2.01	0.43
2:DD:45:VAL:HG12	2:DD:55:THR:HG22	2.01	0.43
2:EC:45:VAL:HG12	2:EC:55:THR:HG22	2.01	0.43
2:BC:45:VAL:HG12	2:BC:55:THR:HG22	2.01	0.43
1:Z9:251:ALA:C	1:Z9:252:VAL:HG22	2.44	0.43
1:AA:134:PHE:HB3	1:AA:167:ILE:HB	2.01	0.43
1:O9:297:TRP:HB2	1:P9:301:LEU:HD12	2.00	0.43
1:U9:172:LEU:HD11	1:T9:145:SER:HB3	1.99	0.43
1:T9:242:ALA:HA	1:T9:382:LYS:O	2.19	0.43
1:S9:367:ARG:NH2	1:K9:181:ARG:HG3	2.34	0.43
1:J9:116:SER:HA	1:I9:268:GLU:HB2	2.00	0.43
1:L9:122:GLN:HG2	1:L9:123:ILE:HG23	2.01	0.43
1:L9:186:SER:O	1:L9:188:PHE:N	2.52	0.43
1:D9:167:ILE:HD12	1:D9:370:GLY:HA2	2.00	0.43
1:E9:151:THR:HB	1:G9:91:ASN:HD22	1.83	0.43
1:F9:143:MET:HG2	1:F9:160:PRO:HD3	2.01	0.43
1:F9:227:LYS:HG2	1:F9:380:LEU:HD22	2.01	0.43
2:D8:45:VAL:HG12	2:D8:55:THR:HG22	2.01	0.43
2:D7:45:VAL:HG12	2:D7:55:THR:HG22	2.01	0.43
2:A7:36:LEU:HD11	2:A7:68:PRO:HG2	2.01	0.43
4:2B:150:ASP:HB2	4:2B:183:LEU:HD22	2.01	0.43
6:4A:11:ALA:HA	7:3F:22:ALA:HA	2.01	0.43
6:4A:23:LEU:HA	6:4A:26:LEU:HB3	2.00	0.43
8:5G:41:VAL:HG21	8:5G:54:LEU:HD12	2.00	0.43
5:1K:378:PHE:CG	5:1J:384:LYS:HD2	2.53	0.43
8:5L:25:ALA:HB1	8:5L:71:LYS:HE3	1.99	0.43
4:2I:190:VAL:HG13	5:1H:268:LEU:HD11	2.01	0.43
8:5E:44:LEU:HG	8:5J:10:LEU:HD21	2.00	0.43
8:5W:31:ARG:HG3	8:5V:113:ALA:HB2	2.01	0.43
5:1G:225:ILE:HD11	5:1G:268:LEU:HD22	2.00	0.43
8:5D:94:ILE:CD1	8:5D:100:ILE:HG22	2.49	0.43
4:2C:92:VAL:CG1	4:2C:96:GLY:HA2	2.49	0.43
8:5B:64:ILE:HB	8:5B:126:MET:HB2	2.01	0.43
8:5T:8:ASP:HB2	8:5T:96:PRO:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:7A:278:TRP:HZ3	10:8A:85:VAL:HG21	1.83	0.43
10:8A:159:PRO:HB2	10:8A:161:ILE:HG22	2.01	0.43
11:6B:190:VAL:O	11:6C:17:VAL:HA	2.17	0.43
8:5Y:8:ASP:HB2	8:5Y:96:PRO:HG3	2.00	0.43
9:7C:226:ARG:HA	9:7C:226:ARG:HD3	1.86	0.43
10:8C:210:GLU:HA	10:8C:217:ARG:HH22	1.84	0.43
8:52:70:PHE:CE1	8:53:98:PHE:CE2	3.07	0.43
11:6C:20:PRO:HA	11:6C:44:ARG:O	2.19	0.43
8:50:116:HIS:HB3	8:51:28:ARG:HA	2.01	0.43
1:C5:227:LYS:HE2	1:C5:227:LYS:HB2	1.86	0.42
1:X4:182:LEU:HB2	1:V9:92:SER:HB2	2.00	0.42
1:A5:100:TYR:O	1:BP:164:ARG:NH1	2.52	0.42
1:B5:162:ILE:H	1:B5:162:ILE:HG13	1.71	0.42
1:B5:265:LEU:HD21	1:B5:269:TYR:HB2	2.01	0.42
1:N4:301:LEU:HD12	1:M4:297:TRP:HB2	1.99	0.42
1:M4:265:LEU:HA	1:M4:379:LYS:HG3	2.01	0.42
1:P4:149:SER:HB3	1:P4:152:ALA:HB2	2.01	0.42
1:V4:343:GLU:HB3	1:V4:368:VAL:HG23	2.01	0.42
1:I4:227:LYS:HB2	1:I4:227:LYS:HE2	1.86	0.42
1:I4:324:ALA:HB3	1:I4:327:ALA:HB2	2.00	0.42
1:XO:277:MET:O	1:XO:317:ALA:N	2.50	0.42
1:YO:277:MET:O	1:YO:317:ALA:N	2.50	0.42
1:BP:190:ILE:HD12	1:BP:190:ILE:HA	1.78	0.42
1:BP:272:ASN:OD1	1:BP:272:ASN:N	2.50	0.42
1:RO:167:ILE:HG21	1:RO:342:ALA:HB3	2.01	0.42
1:QO:125:SER:OG	1:QO:336:GLY:O	2.26	0.42
1:TO:252:VAL:HG13	2:DN:4:PHE:CZ	2.53	0.42
1:SO:328:TYR:HB3	1:SO:380:LEU:HD23	2.00	0.42
1:SO:367:ARG:NH2	1:KO:181:ARG:HG3	2.34	0.42
1:KO:106:THR:HA	1:JO:135:ASP:HB2	2.00	0.42
1:KO:145:SER:HB3	1:LO:172:LEU:HD11	2.00	0.42
2:AN:36:LEU:HD11	2:AN:68:PRO:HG2	2.01	0.42
1:CK:310:MET:HE1	1:XJ:301:LEU:HD22	1.99	0.42
1:YJ:322:ASP:OD1	1:YJ:322:ASP:N	2.49	0.42
1:AK:126:VAL:HG12	1:AK:341:ILE:HB	2.01	0.42
1:WJ:227:LYS:HG2	1:WJ:380:LEU:HD22	2.01	0.42
1:KJ:363:TYR:HE1	1:JJ:154:LEU:HD22	1.84	0.42
1:LJ:186:SER:O	1:LJ:188:PHE:N	2.52	0.42
1:IJ:215:GLY:HA2	1:IJ:220:THR:HG22	2.00	0.42
2:BI:45:VAL:HG12	2:BI:55:THR:HG22	2.01	0.42
2:CH:36:LEU:HD11	2:CH:68:PRO:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:154:LEU:HD13	1:BF:154:LEU:C	2.44	0.42
1:BF:265:LEU:HD21	1:BF:269:TYR:HB2	2.01	0.42
1:QE:307:ALA:O	1:QE:308:ARG:NE	2.46	0.42
1:WE:106:THR:HA	1:VE:135:ASP:HB2	2.01	0.42
1:SE:151:THR:HG22	1:R9:359:HIS:CE1	2.54	0.42
1:SE:367:ARG:NH2	1:KE:181:ARG:HG3	2.34	0.42
1:KE:324:ALA:HB3	1:KE:327:ALA:HB2	2.01	0.42
1:VE:92:SER:HB2	1:X9:182:LEU:HB2	2.00	0.42
1:LE:122:GLN:HG2	1:LE:123:ILE:HG23	2.01	0.42
1:EE:143:MET:HE3	1:FE:197:ARG:HB2	2.01	0.42
1:FE:171:GLU:HA	1:FE:367:ARG:HA	2.01	0.42
1:BE:198:ILE:HG21	1:BE:364:ALA:HB3	2.01	0.42
2:DC:81:VAL:HG21	2:CC:54:VAL:HG21	2.01	0.42
1:CA:110:ILE:HD11	1:CA:193:TRP:CE2	2.54	0.42
1:CA:148:ALA:HB2	1:CA:154:LEU:HD22	2.01	0.42
1:Y9:121:ARG:NH1	1:Y9:343:GLU:OE2	2.50	0.42
1:AA:206:GLU:OE1	1:AA:368:VAL:HG11	2.19	0.42
1:BA:261:LEU:HD13	1:BA:381:LEU:HB2	2.01	0.42
1:O9:263:TYR:OH	1:P9:286:ARG:NH2	2.47	0.42
1:P9:189:ASP:OD1	1:P9:189:ASP:N	2.47	0.42
1:T9:252:VAL:HG13	2:D8:4:PHE:CZ	2.53	0.42
1:T9:343:GLU:HB3	1:T9:368:VAL:HG23	2.01	0.42
5:1K:220:ARG:HE	5:1K:275:PHE:HB2	1.83	0.42
5:1K:251:HIS:HB3	4:2L:193:LEU:HD13	2.01	0.42
4:2L:110:ASP:OD1	4:2L:111:MET:N	2.52	0.42
8:5X:35:ASN:HA	8:5W:109:SER:HB3	2.01	0.42
5:1H:75:PRO:HG2	5:1H:358:GLN:HE22	1.83	0.42
4:2H:76:GLN:HB3	4:2H:116:ILE:CG2	2.48	0.42
8:5V:134:PHE:CD1	8:5U:80:ARG:HD3	2.54	0.42
8:5P:55:GLY:HA2	8:5O:106:MET:CE	2.48	0.42
6:4C:4:ALA:HB1	6:4C:101:ARG:HH11	1.83	0.42
8:5C:64:ILE:HB	8:5C:126:MET:HB2	2.01	0.42
4:2C:110:ASP:OD1	4:2C:111:MET:N	2.52	0.42
4:2D:110:ASP:OD1	4:2D:111:MET:N	2.52	0.42
6:4B:51:ASP:N	6:4B:51:ASP:OD1	2.52	0.42
11:6B:22:ARG:NH2	11:6B:170:ARG:HH11	2.17	0.42
8:5Y:70:PHE:CE1	8:5Z:98:PHE:CE2	3.07	0.42
9:7C:69:ASN:OD1	9:7C:69:ASN:N	2.50	0.42
11:6E:20:PRO:HA	11:6E:44:ARG:O	2.19	0.42
11:6C:77:ARG:NE	11:6C:178:ASP:OD2	2.51	0.42
8:50:41:VAL:HG21	8:50:54:LEU:HD12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:90:LEU:HB3	1:X4:91:ASN:H	1.63	0.42
1:Y4:175:MET:HE3	1:Y4:361:LEU:HD11	2.01	0.42
1:N4:92:SER:HB3	1:F4:182:LEU:HB2	2.02	0.42
1:O4:297:TRP:HB2	1:P4:301:LEU:HD12	2.00	0.42
1:T4:343:GLU:HB3	1:T4:368:VAL:HG23	2.01	0.42
1:S4:328:TYR:HB3	1:S4:380:LEU:HD23	2.00	0.42
1:K4:324:ALA:HB3	1:K4:327:ALA:HB2	2.01	0.42
1:I4:215:GLY:HA2	1:I4:220:THR:HG22	2.00	0.42
1:A4:227:LYS:HE2	1:A4:227:LYS:HB2	1.89	0.42
1:D4:134:PHE:HB3	1:D4:167:ILE:HB	2.00	0.42
1:G4:150:GLU:HB3	1:C4:93:ALA:HB2	2.00	0.42
1:B4:352:ASP:OD1	1:B4:352:ASP:N	2.49	0.42
2:B3:45:VAL:HG12	2:B3:55:THR:HG22	2.01	0.42
2:A1:45:VAL:HG12	2:A1:55:THR:HG22	2.01	0.42
2:A1:47:ARG:HE	2:A1:72:LEU:HD11	1.85	0.42
2:E2:36:LEU:HD11	2:E2:68:PRO:HG2	2.01	0.42
1:ZO:139:ASP:OD1	1:ZO:139:ASP:N	2.45	0.42
1:MO:227:LYS:HE2	1:MO:227:LYS:HB2	1.87	0.42
1:OO:211:ILE:HD12	1:OO:319:ASP:HB2	2.01	0.42
1:KO:363:TYR:HE1	1:JO:154:LEU:HD22	1.84	0.42
2:DN:36:LEU:HD11	2:DN:68:PRO:HG2	2.01	0.42
2:CN:47:ARG:HE	2:CN:72:LEU:HD11	1.84	0.42
2:BN:36:LEU:HD11	2:BN:68:PRO:HG2	2.01	0.42
2:AM:54:VAL:HG21	2:BM:81:VAL:HG21	2.01	0.42
2:CM:38:VAL:HG21	2:CM:58:VAL:HG21	2.02	0.42
1:RJ:286:ARG:NH2	1:RJ:305:GLU:H	2.17	0.42
1:QJ:114:LEU:HB2	1:PJ:269:TYR:CZ	2.54	0.42
1:VJ:92:SER:HB2	1:XE:182:LEU:HB2	2.00	0.42
1:EJ:132:THR:HG21	1:FJ:102:VAL:HG22	1.99	0.42
1:GJ:277:MET:O	1:GJ:317:ALA:N	2.45	0.42
1:CJ:162:ILE:H	1:CJ:162:ILE:HG13	1.61	0.42
2:DI:36:LEU:HD11	2:DI:68:PRO:HG2	2.01	0.42
2:AI:47:ARG:HE	2:AI:72:LEU:HD11	1.84	0.42
2:CH:14:PRO:HD2	2:BH:11:LEU:HD23	2.00	0.42
1:BF:192:THR:HG23	5:1G:161:GLY:H	1.83	0.42
1:QE:114:LEU:HB2	1:PE:269:TYR:CZ	2.54	0.42
1:OE:211:ILE:HD12	1:OE:319:ASP:HB2	2.01	0.42
1:PE:149:SER:HB3	1:PE:152:ALA:HB2	2.01	0.42
1:UE:189:ASP:HB3	1:UE:192:THR:HG22	2.01	0.42
1:TE:242:ALA:HA	1:TE:382:LYS:O	2.19	0.42
1:SE:277:MET:O	1:SE:317:ALA:N	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:277:MET:O	1:JE:317:ALA:N	2.41	0.42
1:DE:256:ASP:HB2	1:EE:287:LYS:HE2	2.00	0.42
1:GE:281:THR:HG23	1:GE:323:ILE:HD11	2.02	0.42
2:CD:47:ARG:HE	2:CD:72:LEU:HD11	1.84	0.42
2:AB:47:ARG:HE	2:AB:72:LEU:HD11	1.85	0.42
2:AC:47:ARG:HE	2:AC:72:LEU:HD11	1.84	0.42
2:AC:67:ARG:NH2	2:BC:4:PHE:HB2	2.33	0.42
1:Y9:150:GLU:OE1	1:AA:92:SER:OG	2.36	0.42
1:AA:108:GLU:HG3	1:AA:109:THR:HG23	2.00	0.42
1:BA:139:ASP:HA	1:BA:162:ILE:HA	2.00	0.42
1:BA:154:LEU:HD13	1:BA:154:LEU:C	2.44	0.42
1:N9:281:THR:HA	1:N9:323:ILE:HD11	2.01	0.42
1:R9:167:ILE:HG21	1:R9:342:ALA:HB3	2.01	0.42
1:Q9:344:ARG:HE	1:Q9:367:ARG:HD3	1.84	0.42
1:S9:167:ILE:HG21	1:S9:342:ALA:HB3	2.00	0.42
1:J9:134:PHE:HB3	1:J9:167:ILE:HB	2.00	0.42
1:I9:343:GLU:HB3	1:I9:368:VAL:HG23	2.00	0.42
1:D9:253:ASN:HD21	1:E9:289:LYS:HD2	1.84	0.42
1:E9:277:MET:O	1:E9:317:ALA:N	2.44	0.42
1:F9:101:LEU:N	1:F9:101:LEU:CD1	2.79	0.42
1:G9:150:GLU:HB3	1:C9:93:ALA:HB2	2.00	0.42
2:C8:38:VAL:HG21	2:C8:58:VAL:HG21	2.02	0.42
2:B8:47:ARG:HE	2:B8:72:LEU:HD11	1.85	0.42
2:A7:38:VAL:HG21	2:A7:58:VAL:HG21	2.02	0.42
2:A7:45:VAL:HG12	2:A7:55:THR:HG22	2.01	0.42
6:4A:82:LYS:O	6:4A:86:ALA:N	2.46	0.42
7:3A:14:GLU:OE2	7:3A:75:ARG:NH1	2.51	0.42
8:5S:8:ASP:HB2	8:5S:96:PRO:HG3	2.00	0.42
4:2K:162:TYR:HE1	4:2L:157:LEU:HD11	1.84	0.42
6:4F:23:LEU:HA	6:4F:26:LEU:HB3	2.00	0.42
8:5X:44:LEU:CB	8:51:116:HIS:CA	2.94	0.42
4:2I:112:ALA:HB1	5:1H:243:ARG:HB2	2.01	0.42
5:1I:270:TRP:HD1	5:1J:273:MET:HE2	1.85	0.42
5:1J:391:PRO:HA	5:1J:392:PRO:HD3	1.91	0.42
4:2J:110:ASP:OD1	4:2J:111:MET:N	2.52	0.42
6:4E:23:LEU:HA	6:4E:26:LEU:HB3	2.00	0.42
7:3E:15:ALA:HB2	7:3E:29:TRP:CD2	2.54	0.42
8:5E:35:ASN:O	8:5D:83:PHE:CZ	2.71	0.42
4:2G:162:TYR:HE1	4:2H:157:LEU:HD11	1.84	0.42
6:4D:23:LEU:HA	6:4D:26:LEU:HB3	2.00	0.42
5:1F:75:PRO:HG2	5:1F:358:GLN:HE22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5C:98:PHE:CZ	8:5B:77:GLU:HA	2.54	0.42
8:5U:34:PHE:HB3	8:5T:83:PHE:CZ	2.55	0.42
11:6B:73:LEU:HA	11:6C:36:ARG:HE	1.84	0.42
11:6D:192:VAL:O	11:6D:192:VAL:HG13	2.19	0.42
1:A5:134:PHE:HB3	1:A5:167:ILE:HB	2.01	0.42
1:W4:227:LYS:HG2	1:W4:380:LEU:HD22	2.01	0.42
1:W4:382:LYS:HE2	1:W4:384:ALA:HB2	2.00	0.42
1:S4:277:MET:O	1:S4:317:ALA:N	2.49	0.42
1:J4:256:ASP:OD1	1:J4:256:ASP:C	2.62	0.42
1:H4:182:LEU:O	1:H4:186:SER:CB	2.68	0.42
1:I4:288:MET:HA	2:C2:6:LYS:HB3	2.01	0.42
1:F4:101:LEU:N	1:F4:101:LEU:CD1	2.79	0.42
2:A3:66:VAL:HA	2:B3:15:ALA:HB3	2.00	0.42
2:D2:38:VAL:HG21	2:D2:58:VAL:HG21	2.02	0.42
2:D2:81:VAL:HG21	2:C2:54:VAL:HG21	2.01	0.42
2:A2:36:LEU:HD11	2:A2:68:PRO:HG2	2.01	0.42
2:C2:45:VAL:HG12	2:C2:55:THR:HG22	2.01	0.42
1:AP:225:LYS:HZ1	1:AP:371:ASP:HB2	1.83	0.42
1:BP:154:LEU:HD13	1:BP:154:LEU:C	2.44	0.42
1:RO:352:ASP:N	1:RO:352:ASP:OD1	2.49	0.42
1:PO:126:VAL:HA	1:PO:341:ILE:O	2.18	0.42
1:WO:145:SER:HB3	1:SO:172:LEU:HD11	2.00	0.42
1:EO:171:GLU:HA	1:EO:367:ARG:HA	2.00	0.42
2:EN:45:VAL:HG12	2:EN:55:THR:HG22	2.01	0.42
2:CN:36:LEU:HD11	2:CN:68:PRO:HG2	2.01	0.42
2:BN:47:ARG:HE	2:BN:72:LEU:HD11	1.85	0.42
2:DM:81:VAL:HG21	2:CM:54:VAL:HG21	2.01	0.42
2:AM:47:ARG:HE	2:AM:72:LEU:HD11	1.84	0.42
2:CM:47:ARG:HE	2:CM:72:LEU:HD11	1.84	0.42
2:BM:36:LEU:HD11	2:BM:68:PRO:HG2	2.01	0.42
1:BK:261:LEU:HD13	1:BK:381:LEU:HB2	2.01	0.42
1:SJ:227:LYS:HE2	1:SJ:227:LYS:HB2	1.87	0.42
1:SJ:367:ARG:NH2	1:KJ:181:ARG:HG3	2.34	0.42
1:VJ:343:GLU:HB3	1:VJ:368:VAL:HG23	2.01	0.42
1:LJ:256:ASP:C	1:LJ:256:ASP:OD1	2.63	0.42
1:FJ:227:LYS:HG2	1:FJ:380:LEU:HD22	2.00	0.42
1:BJ:198:ILE:HG21	1:BJ:364:ALA:HB3	2.02	0.42
2:AG:38:VAL:HG21	2:AG:58:VAL:HG21	2.02	0.42
2:EH:38:VAL:HG21	2:EH:58:VAL:HG21	2.02	0.42
1:CF:148:ALA:HB2	1:CF:154:LEU:HD22	2.01	0.42
1:CF:227:LYS:HE2	1:CF:227:LYS:HB2	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PE:277:MET:O	1:PE:317:ALA:N	2.47	0.42
1:SE:328:TYR:HB3	1:SE:380:LEU:HD23	2.00	0.42
1:LE:256:ASP:C	1:LE:256:ASP:OD1	2.63	0.42
2:DD:38:VAL:HG21	2:DD:58:VAL:HG21	2.02	0.42
2:EC:47:ARG:HE	2:EC:72:LEU:HD11	1.84	0.42
2:CC:14:PRO:HD2	2:BC:11:LEU:HD23	2.00	0.42
1:Z9:253:ASN:ND2	1:AA:289:LYS:HE3	2.34	0.42
1:Q9:104:PRO:HB3	1:P9:133:SER:HB2	2.00	0.42
1:Q9:294:ARG:HH21	1:Q9:299:ASP:HB2	1.84	0.42
1:O9:121:ARG:NH2	1:O9:343:GLU:OE1	2.41	0.42
1:S9:134:PHE:HB3	1:S9:167:ILE:HB	2.02	0.42
1:H9:182:LEU:O	1:H9:186:SER:CB	2.68	0.42
1:I9:288:MET:HA	2:C7:6:LYS:HB3	2.01	0.42
1:B9:263:TYR:OH	1:C9:305:GLU:OE1	2.28	0.42
2:A8:54:VAL:HG21	2:B8:81:VAL:HG21	2.01	0.42
2:E7:47:ARG:HE	2:E7:72:LEU:HD11	1.85	0.42
2:C7:47:ARG:HE	2:C7:72:LEU:HD11	1.85	0.42
2:B7:47:ARG:HE	2:B7:72:LEU:HD11	1.85	0.42
8:5G:25:ALA:HB1	8:5G:71:LYS:HE3	1.99	0.42
5:1K:30:VAL:HA	5:1J:160:VAL:HG11	2.01	0.42
5:1K:95:ARG:HA	5:1K:103:ARG:HB2	2.01	0.42
5:1K:239:GLU:OE2	4:2L:111:MET:SD	2.77	0.42
5:1K:340:TRP:CZ3	5:1J:96:ARG:HD3	2.54	0.42
6:4F:4:ALA:HA	6:4E:86:ALA:HB1	2.01	0.42
4:2I:53:ARG:HD3	5:1I:235:VAL:HG22	2.01	0.42
4:2I:123:LEU:HG	4:2I:124:PRO:HD2	2.02	0.42
8:5W:34:PHE:HB2	8:5V:110:ILE:H	1.84	0.42
8:5P:134:PHE:CE2	8:5O:80:ARG:CZ	3.02	0.42
6:4C:51:ASP:N	6:4C:51:ASP:OD1	2.52	0.42
7:3C:15:ALA:HB2	7:3C:29:TRP:CD2	2.54	0.42
8:5C:94:ILE:CD1	8:5C:100:ILE:HG22	2.49	0.42
4:2C:93:ASP:OD1	4:2C:96:GLY:N	2.50	0.42
8:5T:25:ALA:HB1	8:5T:71:LYS:HE3	1.99	0.42
10:8A:220:ARG:O	10:8A:220:ARG:CG	2.67	0.42
10:8A:855:ARG:HH11	9:7C:92:ASP:CG	2.28	0.42
11:6B:209:ARG:HB2	11:6C:33:HIS:HB3	2.01	0.42
11:6A:55:SER:HA	8:5Y:54:LEU:HD11	2.01	0.42
11:6A:192:VAL:O	11:6A:192:VAL:HG13	2.18	0.42
8:5Y:31:ARG:HG3	8:53:113:ALA:HB2	2.01	0.42
10:8B:132:VAL:HG22	10:8B:198:PHE:HD1	1.81	0.42
1:Z4:164:ARG:NH1	1:CP:100:TYR:O	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:154:LEU:HD13	1:B5:154:LEU:C	2.44	0.42
1:B5:357:LYS:CA	1:B5:357:LYS:CE	2.92	0.42
1:Q4:114:LEU:HB2	1:P4:269:TYR:CZ	2.54	0.42
1:O4:227:LYS:HG2	1:O4:380:LEU:HD22	2.01	0.42
1:O4:382:LYS:HE2	1:O4:384:ALA:HB2	1.99	0.42
1:T4:252:VAL:HG13	2:D3:4:PHE:CZ	2.53	0.42
1:S4:343:GLU:HB3	1:S4:368:VAL:HG23	2.00	0.42
1:D4:285:VAL:HG13	1:D4:288:MET:HE2	2.02	0.42
1:E4:143:MET:HE3	1:F4:197:ARG:HB2	2.01	0.42
1:F4:143:MET:HG2	1:F4:160:PRO:HD3	2.00	0.42
1:F4:227:LYS:HG2	1:F4:380:LEU:HD22	2.00	0.42
2:D3:14:PRO:HD2	2:C3:11:LEU:HD23	2.02	0.42
2:D3:81:VAL:HG21	2:C3:54:VAL:HG21	2.01	0.42
2:C3:47:ARG:HE	2:C3:72:LEU:HD11	1.85	0.42
2:B3:38:VAL:HG21	2:B3:58:VAL:HG21	2.02	0.42
1:ZO:162:ILE:H	1:ZO:162:ILE:HG13	1.71	0.42
1:AP:134:PHE:HB3	1:AP:167:ILE:HB	2.01	0.42
1:AP:219:PRO:CG	1:AP:368:VAL:O	2.66	0.42
1:QO:114:LEU:HB2	1:PO:269:TYR:CZ	2.54	0.42
1:QO:179:SER:HA	1:QO:359:HIS:HA	2.00	0.42
1:WO:106:THR:HA	1:VO:135:ASP:HB2	2.01	0.42
1:WO:134:PHE:HB3	1:WO:167:ILE:HB	2.01	0.42
1:WO:290:ASP:HA	2:AN:8:ALA:HB3	2.01	0.42
1:JO:316:ILE:HG21	1:IO:270:ARG:HH12	1.85	0.42
1:HO:182:LEU:O	1:HO:186:SER:CB	2.68	0.42
1:IO:288:MET:HA	2:CM:6:LYS:HB3	2.01	0.42
1:DO:113:VAL:CG2	1:CO:235:TRP:CZ3	3.03	0.42
1:EO:328:TYR:HB3	1:EO:380:LEU:HD23	2.00	0.42
2:AN:45:VAL:HG12	2:AN:55:THR:HG22	2.01	0.42
2:AM:11:LEU:HD23	2:BM:14:PRO:HD2	2.00	0.42
1:YJ:265:LEU:HD23	1:YJ:379:LYS:HG2	2.00	0.42
1:BK:154:LEU:HD13	1:BK:154:LEU:C	2.44	0.42
1:TJ:261:LEU:HD13	1:TJ:381:LEU:HB2	2.02	0.42
1:EJ:328:TYR:HB3	1:EJ:380:LEU:HD23	2.00	0.42
1:GJ:277:MET:HG2	1:GJ:330:ILE:HG12	2.01	0.42
2:EI:36:LEU:HD11	2:EI:68:PRO:HG2	2.01	0.42
2:EI:47:ARG:HE	2:EI:72:LEU:HD11	1.84	0.42
2:BI:47:ARG:HE	2:BI:72:LEU:HD11	1.85	0.42
2:AG:14:PRO:HD2	2:AB:11:LEU:HD23	2.01	0.42
2:AG:36:LEU:HD11	2:AG:68:PRO:HG2	2.01	0.42
2:DH:38:VAL:HG21	2:DH:58:VAL:HG21	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AH:54:VAL:HG21	2:BH:81:VAL:HG21	2.01	0.42
2:AH:66:VAL:HA	2:BH:15:ALA:HB3	2.00	0.42
1:CF:171:GLU:HA	1:CF:367:ARG:HA	2.01	0.42
1:AF:206:GLU:OE1	1:AF:368:VAL:HG11	2.19	0.42
1:NE:277:MET:HG2	1:NE:330:ILE:HG12	2.00	0.42
1:RE:286:ARG:NH2	1:RE:305:GLU:H	2.18	0.42
1:OE:220:THR:HB	1:OE:371:ASP:HB3	2.02	0.42
1:WE:290:ASP:HA	2:AD:8:ALA:HB3	2.01	0.42
1:KE:227:LYS:HE2	1:KE:227:LYS:HB2	1.78	0.42
1:JE:116:SER:HA	1:IE:268:GLU:HB2	2.00	0.42
1:AE:171:GLU:HA	1:AE:367:ARG:HA	2.01	0.42
1:EE:90:LEU:HB3	1:EE:91:ASN:H	1.62	0.42
2:CD:38:VAL:HG21	2:CD:58:VAL:HG21	2.02	0.42
2:BD:47:ARG:HE	2:BD:72:LEU:HD11	1.85	0.42
2:DC:47:ARG:HE	2:DC:72:LEU:HD11	1.85	0.42
2:AC:38:VAL:HG21	2:AC:58:VAL:HG21	2.02	0.42
1:AA:345:PRO:HB2	5:1D:41:TRP:NE1	2.34	0.42
1:BA:192:THR:HG21	5:1E:41:TRP:HB2	2.02	0.42
1:O9:220:THR:HB	1:O9:371:ASP:HB3	2.02	0.42
1:T9:227:LYS:HE2	1:T9:227:LYS:HB2	1.81	0.42
1:K9:145:SER:HB3	1:L9:172:LEU:HD11	2.00	0.42
1:K9:291:ALA:O	2:D7:10:SER:HB2	2.19	0.42
1:E9:265:LEU:HD21	1:E9:269:TYR:HB2	1.99	0.42
2:C8:47:ARG:HE	2:C8:72:LEU:HD11	1.84	0.42
4:2A:123:LEU:HG	4:2A:124:PRO:HD2	2.02	0.42
4:2A:162:TYR:HE1	4:2B:157:LEU:HD11	1.84	0.42
4:2B:38:ALA:HB2	4:2C:25:LEU:HD12	2.01	0.42
8:5S:7:LYS:NZ	8:5N:44:LEU:O	2.47	0.42
8:5S:91:PHE:CD2	8:5S:105:PHE:HB2	2.55	0.42
8:5M:41:VAL:HG21	8:5M:54:LEU:HD12	2.00	0.42
6:4F:50:GLU:OE2	6:4E:82:LYS:NZ	2.44	0.42
8:5F:94:ILE:HG12	8:5F:100:ILE:CG2	2.45	0.42
4:2I:162:TYR:HE1	4:2J:157:LEU:HD11	1.84	0.42
8:5E:44:LEU:HD11	8:5J:7:LYS:O	2.19	0.42
8:5W:34:PHE:O	8:5V:109:SER:CA	2.67	0.42
8:5W:49:GLY:HA2	8:5I:7:LYS:HE3	2.01	0.42
8:5W:55:GLY:CA	8:5V:88:VAL:HG13	2.47	0.42
5:1G:95:ARG:HA	5:1G:103:ARG:HB2	2.02	0.42
8:5D:50:TRP:CH2	8:5B:84:PHE:CD1	3.07	0.42
4:2F:3:LEU:HD22	4:2F:79:PRO:HG2	2.01	0.42
8:5U:44:LEU:HD13	8:5Z:10:LEU:HD23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2C:123:LEU:HG	4:2C:124:PRO:HD2	2.02	0.42
4:2C:162:TYR:HE1	4:2D:157:LEU:HD11	1.84	0.42
5:1C:270:TRP:HD1	5:1D:273:MET:HE2	1.85	0.42
4:2D:3:LEU:HD22	4:2D:79:PRO:HG2	2.01	0.42
6:4B:23:LEU:HA	6:4B:26:LEU:HB3	2.00	0.42
9:7A:68:ASP:H	9:7A:133:GLY:HA3	1.84	0.42
10:8A:903:THR:OG1	10:8A:904:ARG:N	2.46	0.42
11:6A:22:ARG:NH2	11:6A:170:ARG:HH11	2.17	0.42
11:6E:17:VAL:HA	11:6D:190:VAL:O	2.20	0.42
11:6E:55:SER:HA	8:52:54:LEU:HD11	2.01	0.42
10:8B:159:PRO:HB2	10:8B:161:ILE:HG22	2.01	0.42
10:8B:219:LEU:CD1	10:8B:222:VAL:HB	2.40	0.42
11:6D:21:GLU:CG	11:6D:44:ARG:HB2	2.45	0.42
8:50:8:ASP:HB2	8:50:96:PRO:HG3	2.00	0.42
1:C5:171:GLU:HA	1:C5:367:ARG:HA	2.01	0.42
1:A5:219:PRO:CG	1:A5:368:VAL:O	2.66	0.42
1:M4:157:THR:CG2	1:M4:158:ALA:H	2.30	0.42
1:Q4:367:ARG:NH2	1:U9:181:ARG:HG3	2.31	0.42
1:W4:145:SER:HB3	1:S4:172:LEU:HD11	2.00	0.42
1:W4:277:MET:O	1:W4:317:ALA:N	2.51	0.42
1:K4:277:MET:O	1:K4:317:ALA:N	2.49	0.42
1:J4:316:ILE:HG21	1:I4:270:ARG:HH12	1.85	0.42
1:A4:277:MET:HG2	1:A4:330:ILE:HG12	2.02	0.42
1:D4:93:ALA:HB2	1:D4:102:VAL:HG11	2.02	0.42
2:C3:38:VAL:HG21	2:C3:58:VAL:HG21	2.02	0.42
2:B3:47:ARG:HE	2:B3:72:LEU:HD11	1.85	0.42
2:C2:14:PRO:HD2	2:B2:11:LEU:HD23	2.00	0.42
1:CP:171:GLU:HA	1:CP:367:ARG:HA	2.01	0.42
1:NO:281:THR:HA	1:NO:323:ILE:HD11	2.01	0.42
1:LO:256:ASP:OD1	1:LO:256:ASP:C	2.63	0.42
1:LO:285:VAL:HA	1:LO:288:MET:HE2	2.00	0.42
1:DO:140:LYS:HG3	1:DO:141:THR:HG23	2.01	0.42
1:GO:281:THR:HG23	1:GO:323:ILE:HD11	2.02	0.42
2:DN:14:PRO:HD2	2:CN:11:LEU:HD23	2.02	0.42
2:AN:38:VAL:HG21	2:AN:58:VAL:HG21	2.02	0.42
2:AN:47:ARG:HE	2:AN:72:LEU:HD11	1.84	0.42
2:DM:36:LEU:HD11	2:DM:68:PRO:HG2	2.01	0.42
2:DM:45:VAL:HG12	2:DM:55:THR:HG22	2.01	0.42
2:CM:45:VAL:HG12	2:CM:55:THR:HG22	2.01	0.42
2:BM:47:ARG:HE	2:BM:72:LEU:HD11	1.85	0.42
1:CK:149:SER:HB3	1:CK:152:ALA:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YJ:348:ARG:O	1:YJ:364:ALA:HA	2.19	0.42
1:ZJ:162:ILE:H	1:ZJ:162:ILE:HG13	1.70	0.42
1:RJ:277:MET:O	1:RJ:317:ALA:N	2.46	0.42
1:OJ:297:TRP:HB2	1:PJ:301:LEU:HD12	2.00	0.42
1:WJ:114:LEU:HB3	1:VJ:269:TYR:CE1	2.55	0.42
1:WJ:382:LYS:HE2	1:WJ:384:ALA:HB2	2.00	0.42
1:KJ:145:SER:HB3	1:LJ:172:LEU:HD11	2.00	0.42
1:JJ:227:LYS:HE2	1:JJ:227:LYS:HB2	1.87	0.42
1:CJ:181:ARG:NH2	1:AE:148:ALA:O	2.53	0.42
2:EI:38:VAL:HG21	2:EI:58:VAL:HG21	2.02	0.42
2:DI:47:ARG:HE	2:DI:72:LEU:HD11	1.85	0.42
2:DI:81:VAL:HG21	2:CI:54:VAL:HG21	2.01	0.42
2:AI:36:LEU:HD11	2:AI:68:PRO:HG2	2.01	0.42
2:CI:47:ARG:HE	2:CI:72:LEU:HD11	1.85	0.42
2:DH:32:ARG:HE	2:DH:67:ARG:HG2	1.83	0.42
2:AH:11:LEU:HD23	2:BH:14:PRO:HD2	2.00	0.42
2:AH:38:VAL:HG21	2:AH:58:VAL:HG21	2.02	0.42
2:AH:45:VAL:HG12	2:AH:55:THR:HG22	2.01	0.42
2:AH:47:ARG:HE	2:AH:72:LEU:HD11	1.85	0.42
1:YE:175:MET:HE3	1:YE:361:LEU:HD11	2.01	0.42
1:BF:261:LEU:HD13	1:BF:381:LEU:HB2	2.01	0.42
1:TE:261:LEU:HD13	1:TE:381:LEU:HB2	2.02	0.42
1:DE:93:ALA:HB2	1:DE:102:VAL:HG11	2.02	0.42
1:GE:150:GLU:HG3	1:CE:91:ASN:CB	2.45	0.42
1:CA:149:SER:HB3	1:CA:152:ALA:HB2	2.02	0.42
1:Z9:139:ASP:N	1:Z9:139:ASP:OD1	2.45	0.42
1:P9:162:ILE:H	1:P9:162:ILE:HG13	1.76	0.42
1:W9:277:MET:O	1:W9:317:ALA:N	2.51	0.42
1:J9:114:LEU:HG	1:I9:268:GLU:HG2	2.02	0.42
1:D9:93:ALA:HB2	1:D9:102:VAL:HG11	2.01	0.42
2:D8:14:PRO:HD2	2:C8:11:LEU:HD23	2.02	0.42
2:B7:36:LEU:HD11	2:B7:68:PRO:HG2	2.01	0.42
5:1A:95:ARG:HA	5:1A:103:ARG:HB2	2.02	0.42
5:1A:220:ARG:HE	5:1A:275:PHE:HB2	1.83	0.42
5:1B:75:PRO:HG2	5:1B:358:GLN:HE22	1.83	0.42
4:2B:3:LEU:HD22	4:2B:79:PRO:HG2	2.01	0.42
8:5A:64:ILE:HB	8:5A:126:MET:HB2	2.01	0.42
8:5A:94:ILE:CD1	8:5A:100:ILE:HG22	2.49	0.42
8:5X:91:PHE:CD2	8:5X:105:PHE:HB2	2.55	0.42
5:1I:95:ARG:HA	5:1I:103:ARG:HB2	2.02	0.42
8:5V:31:ARG:HG3	8:5U:113:ALA:HB2	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5V:91:PHE:CD2	8:5V:105:PHE:HB2	2.55	0.42
8:5J:133:SER:OG	8:5J:134:PHE:N	2.53	0.42
4:2F:110:ASP:OD1	4:2F:111:MET:N	2.52	0.42
8:5U:97:ASP:H	8:5T:70:PHE:HE2	1.67	0.42
11:6A:20:PRO:HA	11:6A:44:ARG:O	2.19	0.42
9:7C:263:ASN:HD21	9:7C:266:ASN:HD22	1.68	0.42
10:8C:224:LEU:CD2	10:8C:224:LEU:O	2.68	0.42
10:8C:866:ARG:NH1	9:7B:145:ILE:HD11	2.35	0.42
10:8C:941:VAL:HA	10:8C:954:ARG:HA	2.01	0.42
11:6F:22:ARG:NH2	11:6F:170:ARG:HH11	2.17	0.42
11:6F:200:LEU:HA	11:6F:201:PRO:HD3	1.84	0.42
10:8B:224:LEU:CD2	10:8B:224:LEU:O	2.68	0.42
10:8B:787:LEU:HD23	10:8B:787:LEU:HA	1.74	0.42
10:8B:953:TYR:HB3	10:8B:968:ALA:HB1	2.02	0.42
1:Z4:277:MET:O	1:Z4:317:ALA:N	2.49	0.42
1:R4:359:HIS:CE1	1:S9:151:THR:HG22	2.54	0.42
1:W4:106:THR:HA	1:V4:135:ASP:HB2	2.01	0.42
1:U4:154:LEU:HD23	1:V4:363:TYR:HE1	1.85	0.42
1:S4:134:PHE:HB3	1:S4:167:ILE:HB	2.02	0.42
1:K4:129:VAL:HG11	1:K4:342:ALA:HB1	2.02	0.42
1:K4:363:TYR:HE1	1:J4:154:LEU:HD22	1.84	0.42
1:J4:90:LEU:HB3	1:J4:91:ASN:H	1.62	0.42
1:I4:354:PHE:HD1	1:FO:352:ASP:HB3	1.84	0.42
1:E4:328:TYR:HB3	1:E4:380:LEU:HD23	2.00	0.42
1:F4:338:GLY:O	1:F4:373:SER:N	2.49	0.42
1:G4:91:ASN:OD1	1:G4:91:ASN:N	2.53	0.42
1:B4:354:PHE:CE1	1:C9:350:LEU:HD11	2.54	0.42
2:C3:45:VAL:HG12	2:C3:55:THR:HG22	2.01	0.42
2:B2:45:VAL:HG12	2:B2:55:THR:HG22	2.01	0.42
1:XO:277:MET:HG2	1:XO:330:ILE:HG12	2.02	0.42
1:YO:348:ARG:O	1:YO:364:ALA:HA	2.19	0.42
1:RO:286:ARG:NH2	1:RO:305:GLU:H	2.18	0.42
1:PO:149:SER:HB3	1:PO:152:ALA:HB2	2.01	0.42
1:TO:261:LEU:HD13	1:TO:381:LEU:HB2	2.02	0.42
1:KO:340:THR:OG1	1:LO:111:ARG:NH1	2.46	0.42
1:LO:186:SER:O	1:LO:188:PHE:N	2.52	0.42
1:DO:256:ASP:HB2	1:EO:287:LYS:HE2	2.00	0.42
1:CO:352:ASP:OD2	1:CO:355:SER:OG	2.33	0.42
2:DN:45:VAL:HG12	2:DN:55:THR:HG22	2.01	0.42
2:EM:45:VAL:HG12	2:EM:55:THR:HG22	2.01	0.42
1:MJ:277:MET:O	1:MJ:317:ALA:N	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SJ:151:THR:HG22	1:RE:359:HIS:CE1	2.55	0.42
1:JJ:114:LEU:HG	1:IJ:268:GLU:HG2	2.02	0.42
1:IJ:288:MET:HA	2:CH:6:LYS:HB3	2.01	0.42
1:EJ:143:MET:HE3	1:FJ:197:ARG:HB2	2.01	0.42
2:EI:45:VAL:HG12	2:EI:55:THR:HG22	2.01	0.42
2:CI:38:VAL:HG21	2:CI:58:VAL:HG21	2.02	0.42
2:BI:38:VAL:HG21	2:BI:58:VAL:HG21	2.02	0.42
2:AG:47:ARG:HE	2:AG:72:LEU:HD11	1.85	0.42
1:XE:277:MET:O	1:XE:317:ALA:N	2.50	0.42
1:AF:100:TYR:O	1:BA:164:ARG:NH1	2.53	0.42
1:AF:219:PRO:CG	1:AF:368:VAL:O	2.66	0.42
1:JE:316:ILE:HG21	1:IE:270:ARG:HH12	1.85	0.42
1:DE:102:VAL:HG22	1:CE:132:THR:HB	2.01	0.42
1:EE:171:GLU:HA	1:EE:367:ARG:HA	2.00	0.42
1:FE:322:ASP:OD1	1:FE:322:ASP:N	2.53	0.42
2:DD:47:ARG:HE	2:DD:72:LEU:HD11	1.85	0.42
2:EC:36:LEU:HD11	2:EC:68:PRO:HG2	2.01	0.42
2:EC:38:VAL:HG21	2:EC:58:VAL:HG21	2.02	0.42
1:X9:162:ILE:H	1:X9:162:ILE:HG13	1.57	0.42
1:O9:227:LYS:HG2	1:O9:380:LEU:HD22	2.01	0.42
1:O9:338:GLY:O	1:O9:373:SER:N	2.49	0.42
1:U9:189:ASP:HB3	1:U9:192:THR:HG22	2.01	0.42
1:K9:363:TYR:HE1	1:J9:154:LEU:HD22	1.84	0.42
1:A9:277:MET:HG2	1:A9:330:ILE:HG12	2.02	0.42
1:B9:198:ILE:HG21	1:B9:364:ALA:HB3	2.01	0.42
2:A8:47:ARG:HE	2:A8:72:LEU:HD11	1.84	0.42
2:E7:38:VAL:HG21	2:E7:58:VAL:HG21	2.02	0.42
2:C7:38:VAL:HG21	2:C7:58:VAL:HG21	2.02	0.42
2:B7:38:VAL:HG21	2:B7:58:VAL:HG21	2.02	0.42
4:2A:92:VAL:CG1	4:2A:96:GLY:HA2	2.49	0.42
4:2A:192:VAL:O	5:1L:252:HIS:NE2	2.48	0.42
5:1A:225:ILE:HD11	5:1A:268:LEU:HD22	2.00	0.42
8:5S:60:ARG:NH1	8:5X:86:GLY:HA3	2.35	0.42
8:5M:111:ASP:HB3	8:5N:33:SER:HA	2.01	0.42
4:2K:123:LEU:HG	4:2K:124:PRO:HD2	2.02	0.42
5:1J:75:PRO:HG2	5:1J:358:GLN:HE22	1.83	0.42
8:5W:34:PHE:HB3	8:5V:83:PHE:CZ	2.55	0.42
4:2G:86:VAL:CG2	4:2G:107:LEU:CD1	2.86	0.42
4:2H:110:ASP:OD1	4:2H:111:MET:N	2.52	0.42
8:5P:98:PHE:HZ	8:5O:76:ASP:O	2.03	0.42
7:3C:57:VAL:HA	7:3C:58:PRO:HD3	1.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5I:91:PHE:CD2	8:5I:105:PHE:HB2	2.55	0.42
8:5T:91:PHE:CD2	8:5T:105:PHE:HB2	2.55	0.42
9:7A:131:LEU:HD13	9:7A:131:LEU:HA	1.87	0.42
10:8A:201:VAL:HG13	10:8A:762:VAL:HG13	2.02	0.42
10:8A:782:ILE:HG23	10:8A:782:ILE:O	2.19	0.42
11:6A:10:ALA:O	8:5Y:45:GLU:OE2	2.37	0.42
9:7C:33:GLY:HA3	9:7C:48:PHE:HA	2.02	0.42
9:7C:203:VAL:HB	9:7C:244:VAL:HG12	2.02	0.42
10:8C:201:VAL:HG13	10:8C:762:VAL:HG13	2.02	0.42
11:6F:24:THR:OG1	11:6E:72:GLN:HG2	2.20	0.42
1:Y4:263:TYR:OH	1:Z4:305:GLU:OE1	2.28	0.42
1:A5:206:GLU:OE1	1:A5:368:VAL:HG11	2.19	0.42
1:K4:291:ALA:O	2:D2:10:SER:HB2	2.19	0.42
1:J4:255:SER:O	1:J4:258:VAL:HG12	2.20	0.42
1:A4:148:ALA:O	1:C9:181:ARG:NH2	2.53	0.42
1:A4:322:ASP:N	1:A4:322:ASP:OD1	2.47	0.42
1:D4:149:SER:HB3	1:D4:152:ALA:HB2	2.01	0.42
1:C4:350:LEU:HD11	1:BO:354:PHE:CE1	2.55	0.42
2:D3:45:VAL:HG12	2:D3:55:THR:HG22	2.01	0.42
2:A3:38:VAL:HG21	2:A3:58:VAL:HG21	2.02	0.42
2:D2:47:ARG:HE	2:D2:72:LEU:HD11	1.85	0.42
1:BP:189:ASP:HB3	5:1L:44:ARG:HB2	0.49	0.42
1:BP:261:LEU:HD13	1:BP:381:LEU:HB2	2.01	0.42
1:RO:90:LEU:HB3	1:RO:91:ASN:H	1.65	0.42
1:OO:220:THR:HB	1:OO:371:ASP:HB3	2.02	0.42
1:WO:114:LEU:HB3	1:VO:269:TYR:CE1	2.55	0.42
1:DO:93:ALA:HB2	1:DO:102:VAL:HG11	2.02	0.42
1:GO:91:ASN:OD1	1:GO:91:ASN:N	2.53	0.42
1:GO:150:GLU:HB3	1:CO:93:ALA:HB2	2.00	0.42
1:BO:198:ILE:HG21	1:BO:364:ALA:HB3	2.02	0.42
2:AN:54:VAL:HG21	2:BN:81:VAL:HG21	2.01	0.42
2:AL:38:VAL:HG21	2:AL:58:VAL:HG21	2.02	0.42
2:EM:47:ARG:HE	2:EM:72:LEU:HD11	1.85	0.42
1:CK:227:LYS:HE2	1:CK:227:LYS:HB2	1.86	0.42
1:XJ:277:MET:O	1:XJ:317:ALA:N	2.50	0.42
1:BK:277:MET:O	1:BK:317:ALA:N	2.48	0.42
1:MJ:227:LYS:HE2	1:MJ:227:LYS:HB2	1.87	0.42
1:MJ:265:LEU:HA	1:MJ:379:LYS:HG3	2.01	0.42
1:PJ:149:SER:HB3	1:PJ:152:ALA:HB2	2.01	0.42
1:KJ:340:THR:OG1	1:LJ:111:ARG:NH1	2.46	0.42
1:DJ:93:ALA:HB2	1:DJ:102:VAL:HG11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DI:38:VAL:HG21	2:DI:58:VAL:HG21	2.02	0.42
2:AI:45:VAL:HG12	2:AI:55:THR:HG22	2.01	0.42
2:DH:14:PRO:HD2	2:CH:11:LEU:HD23	2.02	0.42
2:DH:36:LEU:HD11	2:DH:68:PRO:HG2	2.01	0.42
1:ZE:253:ASN:ND2	1:AF:289:LYS:HE3	2.34	0.42
1:RE:125:SER:OG	1:RE:336:GLY:O	2.27	0.42
1:ME:265:LEU:HA	1:ME:379:LYS:HG3	2.01	0.42
1:ME:277:MET:O	1:ME:317:ALA:N	2.49	0.42
1:PE:90:LEU:HB3	1:PE:91:ASN:H	1.70	0.42
1:JE:114:LEU:HG	1:IE:268:GLU:HG2	2.02	0.42
1:JE:227:LYS:HE2	1:JE:227:LYS:HB2	1.87	0.42
1:LE:322:ASP:N	1:LE:322:ASP:OD1	2.46	0.42
1:DE:113:VAL:CG2	1:CE:235:TRP:CZ3	3.03	0.42
2:DD:14:PRO:HD2	2:CD:11:LEU:HD23	2.02	0.42
2:CD:36:LEU:HD11	2:CD:68:PRO:HG2	2.01	0.42
2:AB:4:PHE:HB2	2:A6:67:ARG:NH2	2.35	0.42
2:AB:45:VAL:HG12	2:AB:55:THR:HG22	2.01	0.42
1:Y9:300:SER:OG	1:Y9:302:ALA:O	2.36	0.42
1:BA:227:LYS:HE2	1:BA:227:LYS:HB2	1.92	0.42
1:W9:134:PHE:HB3	1:W9:167:ILE:HB	2.01	0.42
1:U9:154:LEU:HD23	1:V9:363:TYR:HE1	1.85	0.42
1:K9:129:VAL:HG11	1:K9:342:ALA:HB1	2.02	0.42
1:K9:324:ALA:HB3	1:K9:327:ALA:HB2	2.01	0.42
1:J9:256:ASP:OD1	1:J9:256:ASP:C	2.62	0.42
1:A9:171:GLU:HA	1:A9:367:ARG:HA	2.01	0.42
2:D8:38:VAL:HG21	2:D8:58:VAL:HG21	2.02	0.42
2:D8:47:ARG:HE	2:D8:72:LEU:HD11	1.85	0.42
2:A8:45:VAL:HG12	2:A8:55:THR:HG22	2.01	0.42
2:B8:36:LEU:HD11	2:B8:68:PRO:HG2	2.01	0.42
2:D7:47:ARG:HE	2:D7:72:LEU:HD11	1.85	0.42
2:B7:45:VAL:HG12	2:B7:55:THR:HG22	2.01	0.42
5:1A:270:TRP:HD1	5:1B:273:MET:HE2	1.85	0.42
4:2B:110:ASP:OD1	4:2B:111:MET:N	2.52	0.42
8:5R:91:PHE:CD2	8:5R:105:PHE:HB2	2.55	0.42
8:5W:133:SER:OG	8:5W:134:PHE:N	2.53	0.42
4:2G:123:LEU:HG	4:2G:124:PRO:HD2	2.02	0.42
5:1G:29:ILE:HG22	5:1F:160:VAL:CG1	2.49	0.42
6:4D:104:LEU:HB3	6:4D:133:VAL:HG12	2.02	0.42
5:1E:251:HIS:HB3	4:2F:193:LEU:HD13	2.01	0.42
8:5O:91:PHE:CD2	8:5O:105:PHE:HB2	2.55	0.42
4:2C:53:ARG:HD3	5:1C:235:VAL:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2D:150:ASP:HB2	4:2D:183:LEU:HD22	2.01	0.42
9:7A:145:ILE:HD11	10:8B:866:ARG:NH1	2.34	0.42
9:7A:203:VAL:HB	9:7A:244:VAL:HG12	2.02	0.42
10:8A:132:VAL:HG22	10:8A:198:PHE:HD1	1.81	0.42
10:8A:210:GLU:HA	10:8A:217:ARG:HH22	1.84	0.42
10:8A:224:LEU:CD2	10:8A:224:LEU:O	2.68	0.42
8:5Y:91:PHE:CD2	8:5Y:105:PHE:HB2	2.55	0.42
9:7C:278:TRP:HZ3	10:8C:85:VAL:HG21	1.83	0.42
10:8C:958:VAL:HG13	10:8C:964:ILE:HG23	2.02	0.42
11:6F:192:VAL:O	11:6F:192:VAL:HG13	2.19	0.42
11:6E:10:ALA:O	8:52:45:GLU:OE2	2.37	0.42
8:52:133:SER:OG	8:52:134:PHE:N	2.53	0.42
9:7B:226:ARG:HA	9:7B:226:ARG:HD3	1.86	0.42
11:6D:22:ARG:NH2	11:6D:170:ARG:HH11	2.17	0.42
8:51:91:PHE:CD2	8:51:105:PHE:HB2	2.55	0.42
1:Z4:151:THR:CB	4:2K:127:PRO:CB	2.80	0.42
1:A5:126:VAL:HG12	1:A5:341:ILE:HB	2.01	0.42
1:O4:220:THR:HB	1:O4:371:ASP:HB3	2.02	0.42
1:W4:134:PHE:HB3	1:W4:167:ILE:HB	2.01	0.42
1:U4:277:MET:HG2	1:U4:330:ILE:HG12	2.02	0.42
1:K4:227:LYS:HE2	1:K4:227:LYS:HB2	1.78	0.42
1:A4:171:GLU:HA	1:A4:367:ARG:HA	2.01	0.42
1:D4:113:VAL:CG2	1:C4:235:TRP:CZ3	3.03	0.42
1:D4:297:TRP:CE2	1:D4:309:LEU:HD23	2.55	0.42
1:G4:281:THR:HG23	1:G4:323:ILE:HD11	2.01	0.42
2:E3:36:LEU:HD11	2:E3:68:PRO:HG2	2.01	0.42
2:C3:36:LEU:HD11	2:C3:68:PRO:HG2	2.01	0.42
2:E2:47:ARG:HE	2:E2:72:LEU:HD11	1.85	0.42
2:D2:36:LEU:HD11	2:D2:68:PRO:HG2	2.01	0.42
2:A2:47:ARG:HE	2:A2:72:LEU:HD11	1.84	0.42
2:C2:36:LEU:HD11	2:C2:68:PRO:HG2	2.01	0.42
1:CP:106:THR:HG22	1:BP:135:ASP:HB2	2.02	0.42
1:NO:100:TYR:O	1:EO:164:ARG:NH1	2.53	0.42
1:OO:121:ARG:NH2	1:OO:343:GLU:OE1	2.41	0.42
1:SO:151:THR:HG22	1:RJ:359:HIS:CE1	2.55	0.42
1:AO:171:GLU:HA	1:AO:367:ARG:HA	2.01	0.42
1:DO:102:VAL:HG22	1:CO:132:THR:HB	2.01	0.42
1:DO:177:LYS:HA	1:DO:361:LEU:HA	2.00	0.42
1:FO:322:ASP:OD1	1:FO:322:ASP:N	2.53	0.42
1:CO:350:LEU:HD11	1:BJ:354:PHE:CE1	2.55	0.42
2:AL:47:ARG:HE	2:AL:72:LEU:HD11	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AM:45:VAL:HG12	2:AM:55:THR:HG22	2.01	0.42
1:AK:219:PRO:CG	1:AK:368:VAL:O	2.66	0.42
1:RJ:167:ILE:HG21	1:RJ:342:ALA:HB3	2.01	0.42
1:QJ:294:ARG:HH21	1:QJ:299:ASP:HB2	1.84	0.42
1:OJ:220:THR:HB	1:OJ:371:ASP:HB3	2.02	0.42
1:UJ:154:LEU:HD23	1:VJ:363:TYR:HE1	1.85	0.42
1:TJ:343:GLU:HB3	1:TJ:368:VAL:HG23	2.01	0.42
1:KJ:106:THR:HA	1:JJ:135:ASP:HB2	2.00	0.42
1:JJ:255:SER:O	1:JJ:258:VAL:HG12	2.20	0.42
1:HJ:182:LEU:O	1:HJ:186:SER:CB	2.68	0.42
1:DJ:113:VAL:CG2	1:CJ:235:TRP:CZ3	3.03	0.42
1:DJ:140:LYS:HG3	1:DJ:141:THR:HG23	2.01	0.42
1:DJ:253:ASN:HD21	1:EJ:289:LYS:HD2	1.84	0.42
1:DJ:297:TRP:CE2	1:DJ:309:LEU:HD23	2.55	0.42
1:GJ:227:LYS:HB2	1:GJ:227:LYS:HE2	1.87	0.42
2:BI:36:LEU:HD11	2:BI:68:PRO:HG2	2.01	0.42
2:EH:47:ARG:HE	2:EH:72:LEU:HD11	1.84	0.42
1:RE:167:ILE:HG21	1:RE:342:ALA:HB3	2.01	0.42
1:RE:277:MET:O	1:RE:317:ALA:N	2.46	0.42
1:GE:150:GLU:HB3	1:CE:93:ALA:HB2	2.00	0.42
2:DC:14:PRO:HD2	2:CC:11:LEU:HD23	2.02	0.42
1:Y9:348:ARG:O	1:Y9:364:ALA:HA	2.19	0.42
1:Z9:299:ASP:N	1:Z9:299:ASP:OD1	2.52	0.42
1:N9:92:SER:HB3	1:F9:182:LEU:HB2	2.02	0.42
1:U9:277:MET:HG2	1:U9:330:ILE:HG12	2.02	0.42
1:V9:343:GLU:HB3	1:V9:368:VAL:HG23	2.01	0.42
2:D8:32:ARG:HE	2:D8:67:ARG:HG2	1.83	0.42
6:4A:4:ALA:HB1	6:4A:101:ARG:HH11	1.83	0.42
8:5A:27:LEU:O	8:5A:27:LEU:CD1	2.61	0.42
8:5A:116:HIS:HB3	8:5B:28:ARG:HA	2.01	0.42
7:3F:85:ARG:NH1	7:3E:94:GLU:OE2	2.50	0.42
8:5K:91:PHE:CD2	8:5K:105:PHE:HB2	2.55	0.42
6:4D:51:ASP:N	6:4D:51:ASP:OD1	2.52	0.42
7:3D:11:VAL:HG22	7:3D:34:GLU:HG2	2.02	0.42
8:5P:133:SER:OG	8:5P:134:PHE:N	2.53	0.42
9:7A:17:THR:OG1	9:7A:17:THR:O	2.33	0.42
10:8A:958:VAL:HG13	10:8A:964:ILE:HG23	2.02	0.42
8:5Z:91:PHE:CD2	8:5Z:105:PHE:HB2	2.55	0.42
10:8C:936:LEU:HA	10:8C:936:LEU:HD13	1.86	0.42
11:6E:33:HIS:HB3	11:6D:209:ARG:HB2	2.01	0.42
8:51:41:VAL:HG21	8:51:54:LEU:HD12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:227:LYS:HE2	1:X4:227:LYS:HB2	1.91	0.42
1:B5:290:ASP:OD1	1:B5:294:ARG:N	2.49	0.42
1:M4:290:ASP:OD1	1:M4:290:ASP:N	2.49	0.42
1:U4:189:ASP:HB3	1:U4:192:THR:HG22	2.01	0.42
1:S4:151:THR:HG22	1:RO:359:HIS:CE1	2.54	0.42
1:E4:139:ASP:OD1	1:E4:139:ASP:N	2.52	0.42
1:E4:144:GLY:O	1:E4:157:THR:OG1	2.37	0.42
2:E3:47:ARG:HE	2:E3:72:LEU:HD11	1.84	0.42
2:A3:47:ARG:HE	2:A3:72:LEU:HD11	1.84	0.42
2:A3:54:VAL:HG21	2:B3:81:VAL:HG21	2.01	0.42
2:D2:45:VAL:HG12	2:D2:55:THR:HG22	2.01	0.42
2:B2:38:VAL:HG21	2:B2:58:VAL:HG21	2.02	0.42
1:CP:110:ILE:HD11	1:CP:193:TRP:CE2	2.54	0.42
1:ZO:253:ASN:ND2	1:AP:289:LYS:HE3	2.34	0.42
1:AP:346:ASP:HB2	5:1K:41:TRP:HD1	1.77	0.42
1:NO:142:ASP:HB3	1:OO:115:ARG:NH1	2.35	0.42
1:SO:134:PHE:HB3	1:SO:167:ILE:HB	2.02	0.42
1:JO:110:ILE:HD12	1:MJ:101:LEU:HD11	2.02	0.42
1:JO:255:SER:O	1:JO:258:VAL:HG12	2.20	0.42
1:VO:92:SER:HB2	1:XJ:182:LEU:HB2	2.01	0.42
1:VO:181:ARG:HH21	1:CK:171:GLU:HG2	1.85	0.42
1:EO:143:MET:HE3	1:FO:197:ARG:HB2	2.01	0.42
1:GO:277:MET:O	1:GO:317:ALA:N	2.45	0.42
1:BO:143:MET:HG2	1:BO:160:PRO:HD3	2.02	0.42
2:DN:47:ARG:HE	2:DN:72:LEU:HD11	1.85	0.42
2:BN:45:VAL:HG12	2:BN:55:THR:HG22	2.01	0.42
2:AL:14:PRO:HD2	2:AG:11:LEU:HD23	2.02	0.42
2:EM:36:LEU:HD11	2:EM:68:PRO:HG2	2.01	0.42
2:EM:38:VAL:HG21	2:EM:58:VAL:HG21	2.02	0.42
1:XJ:277:MET:HG2	1:XJ:330:ILE:HG12	2.02	0.42
1:BK:289:LYS:HB2	1:BK:293:GLY:HA2	2.02	0.42
1:TJ:269:TYR:OH	1:TJ:374:ASP:OD2	2.30	0.42
1:IJ:285:VAL:HG11	1:IJ:309:LEU:HD11	2.02	0.42
1:FJ:348:ARG:HE	1:FJ:365:SER:HG	1.67	0.42
2:EH:36:LEU:HD11	2:EH:68:PRO:HG2	2.01	0.42
2:CH:47:ARG:HE	2:CH:72:LEU:HD11	1.85	0.42
1:CF:149:SER:HB3	1:CF:152:ALA:HB2	2.02	0.42
1:AF:134:PHE:HB3	1:AF:167:ILE:HB	2.02	0.42
1:BF:190:ILE:HD12	1:BF:190:ILE:HA	1.78	0.42
1:NE:92:SER:HB3	1:FE:182:LEU:HB2	2.01	0.42
1:OE:297:TRP:HB2	1:PE:301:LEU:HD12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WE:227:LYS:HG2	1:WE:380:LEU:HD22	2.01	0.42
1:TE:227:LYS:HB2	1:TE:227:LYS:HE2	1.81	0.42
1:TE:343:GLU:HB3	1:TE:368:VAL:HG23	2.01	0.42
1:SE:322:ASP:OD1	1:SE:322:ASP:N	2.49	0.42
1:VE:227:LYS:HE2	1:VE:227:LYS:HB2	1.89	0.42
1:HE:182:LEU:O	1:HE:186:SER:CB	2.68	0.42
1:IE:118:ALA:HA	1:IE:122:GLN:HE22	1.85	0.42
1:IE:288:MET:HA	2:CC:6:LYS:HB3	2.01	0.42
1:EE:227:LYS:HE2	1:EE:227:LYS:HB2	1.88	0.42
1:FE:227:LYS:HG2	1:FE:380:LEU:HD22	2.00	0.42
2:ED:38:VAL:HG21	2:ED:58:VAL:HG21	2.02	0.42
2:AD:47:ARG:HE	2:AD:72:LEU:HD11	1.85	0.42
2:CD:45:VAL:HG12	2:CD:55:THR:HG22	2.01	0.42
2:CC:45:VAL:HG12	2:CC:55:THR:HG22	2.01	0.42
2:CC:47:ARG:HE	2:CC:72:LEU:HD11	1.85	0.42
1:Z9:223:LEU:O	1:Z9:227:LYS:NZ	2.39	0.42
1:AA:177:LYS:HG3	1:AA:361:LEU:CD1	2.42	0.42
1:BA:277:MET:O	1:BA:317:ALA:N	2.47	0.42
1:N9:352:ASP:OD2	1:L9:357:LYS:NZ	2.39	0.42
1:M9:265:LEU:HA	1:M9:379:LYS:HG3	2.01	0.42
1:S9:171:GLU:HG2	1:K9:181:ARG:HH21	1.85	0.42
1:I9:215:GLY:HA2	1:I9:220:THR:HG22	2.00	0.42
1:G9:277:MET:HG2	1:G9:330:ILE:HG12	2.01	0.42
7:3A:15:ALA:HB2	7:3A:29:TRP:CD2	2.54	0.42
8:5A:34:PHE:HB3	8:5F:83:PHE:CZ	2.55	0.42
4:2K:53:ARG:HD3	5:1K:235:VAL:HG22	2.01	0.42
5:1K:284:GLU:HG3	5:1J:280:MET:HE3	2.02	0.42
4:2L:150:ASP:HB2	4:2L:183:LEU:HD22	2.01	0.42
7:3F:11:VAL:HG22	7:3F:34:GLU:HG2	2.02	0.42
8:5X:55:GLY:CA	8:5W:88:VAL:HG13	2.50	0.42
5:1I:30:VAL:HA	5:1H:160:VAL:HG11	2.02	0.42
5:1J:359:VAL:HA	5:1J:360:PRO:HD3	1.88	0.42
8:5Q:133:SER:OG	8:5Q:134:PHE:N	2.53	0.42
4:2G:25:LEU:HD12	4:2F:38:ALA:CB	2.49	0.42
5:1G:270:TRP:HD1	5:1H:273:MET:HE2	1.85	0.42
7:3D:15:ALA:HB2	7:3D:29:TRP:CD2	2.54	0.42
4:2E:123:LEU:HG	4:2E:124:PRO:HD2	2.02	0.42
5:1E:95:ARG:HA	5:1E:103:ARG:HB2	2.02	0.42
5:1E:270:TRP:HD1	5:1F:273:MET:HE2	1.84	0.42
8:5C:50:TRP:CH2	8:5B:132:LEU:HD22	2.53	0.42
6:4B:116:ARG:HD3	6:4B:120:ALA:HB1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:3B:19:ALA:HA	7:3B:25:HIS:HA	2.00	0.42
8:5H:91:PHE:CD2	8:5H:105:PHE:HB2	2.55	0.42
10:8A:941:VAL:HA	10:8A:954:ARG:HA	2.01	0.42
11:6B:21:GLU:CG	11:6B:44:ARG:HB2	2.45	0.42
8:53:91:PHE:CD2	8:53:105:PHE:HB2	2.55	0.42
11:6C:10:ALA:O	8:50:45:GLU:OE2	2.37	0.42
8:50:70:PHE:CE1	8:51:98:PHE:CE2	3.07	0.42
8:50:91:PHE:CD2	8:50:105:PHE:HB2	2.55	0.42
1:C5:148:ALA:HB2	1:C5:154:LEU:HD22	2.01	0.42
1:A5:225:LYS:HZ1	1:A5:371:ASP:HB2	1.85	0.42
2:D3:38:VAL:HG21	2:D3:58:VAL:HG21	2.02	0.42
2:B3:36:LEU:HD11	2:B3:68:PRO:HG2	2.01	0.42
2:E2:38:VAL:HG21	2:E2:58:VAL:HG21	2.02	0.42
2:A2:38:VAL:HG21	2:A2:58:VAL:HG21	2.02	0.42
1:YO:175:MET:HE3	1:YO:361:LEU:HD11	2.01	0.42
1:ZO:164:ARG:NH1	1:CK:100:TYR:O	2.53	0.42
1:AP:143:MET:HB3	1:AP:160:PRO:HD3	2.02	0.42
1:BP:175:MET:HG2	1:BP:361:LEU:HD11	2.02	0.42
1:QO:294:ARG:HH21	1:QO:299:ASP:HB2	1.84	0.42
1:VO:167:ILE:HG21	1:VO:342:ALA:HB3	2.02	0.42
1:VO:186:SER:O	1:VO:188:PHE:N	2.53	0.42
1:AO:277:MET:HG2	1:AO:330:ILE:HG12	2.02	0.42
1:DO:297:TRP:CE2	1:DO:309:LEU:HD23	2.55	0.42
2:EN:47:ARG:HE	2:EN:72:LEU:HD11	1.84	0.42
1:AK:100:TYR:O	1:BF:164:ARG:NH1	2.52	0.42
1:JJ:316:ILE:HG21	1:IJ:270:ARG:HH12	1.85	0.42
1:VJ:186:SER:O	1:VJ:188:PHE:N	2.53	0.42
2:DI:14:PRO:HD2	2:CI:11:LEU:HD23	2.02	0.42
2:CI:45:VAL:HG12	2:CI:55:THR:HG22	2.01	0.42
2:DH:72:LEU:O	2:DH:76:THR:OG1	2.32	0.42
1:XE:277:MET:HG2	1:XE:330:ILE:HG12	2.02	0.42
1:QE:344:ARG:HE	1:QE:367:ARG:HD3	1.84	0.42
1:KE:129:VAL:HG11	1:KE:342:ALA:HB1	2.02	0.42
1:KE:291:ALA:O	2:DC:10:SER:HB2	2.19	0.42
1:GE:227:LYS:HB2	1:GE:227:LYS:HE2	1.87	0.42
1:BE:92:SER:O	1:BE:99:GLY:HA3	2.20	0.42
1:BE:227:LYS:HE2	1:BE:227:LYS:HB2	1.84	0.42
2:CC:36:LEU:HD11	2:CC:68:PRO:HG2	2.01	0.42
1:BA:265:LEU:HD21	1:BA:269:TYR:HB2	2.01	0.42
1:BA:289:LYS:HB2	1:BA:293:GLY:HA2	2.01	0.42
1:M9:352:ASP:OD1	1:M9:352:ASP:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W9:227:LYS:HG2	1:W9:380:LEU:HD22	2.01	0.42
1:V9:186:SER:O	1:V9:188:PHE:N	2.53	0.42
1:G9:346:ASP:OD1	1:G9:346:ASP:N	2.52	0.42
2:A7:66:VAL:HA	2:B7:15:ALA:HB3	2.00	0.42
2:C7:45:VAL:HG12	2:C7:55:THR:HG22	2.01	0.42
5:1A:251:HIS:HB3	4:2B:193:LEU:HD13	2.01	0.42
8:5S:69:VAL:HG11	8:5N:41:VAL:HG13	2.01	0.42
6:4F:4:ALA:HB1	6:4F:101:ARG:HH11	1.83	0.42
8:5F:50:TRP:CZ2	8:5E:132:LEU:HB2	2.55	0.42
8:5X:51:ARG:CZ	8:5W:61:SER:OG	2.62	0.42
8:5L:91:PHE:CD2	8:5L:105:PHE:HB2	2.55	0.42
8:5E:64:ILE:HB	8:5E:126:MET:HB2	2.01	0.42
8:5Q:44:LEU:HG	8:5V:7:LYS:CG	2.48	0.42
4:2G:53:ARG:HD3	5:1G:235:VAL:HG22	2.01	0.42
8:5V:133:SER:OG	8:5V:134:PHE:N	2.53	0.42
8:5P:91:PHE:CD2	8:5P:105:PHE:HB2	2.55	0.42
4:2E:162:TYR:HE1	4:2F:157:LEU:HD11	1.84	0.42
5:1E:316:ALA:HB1	5:1E:364:VAL:HG11	2.02	0.42
6:4C:104:LEU:HB3	6:4C:133:VAL:HG12	2.02	0.42
6:4C:116:ARG:HD3	6:4C:120:ALA:HB1	2.02	0.42
7:3C:19:ALA:HA	7:3C:25:HIS:HA	2.00	0.42
7:3C:40:THR:OG1	7:3B:97:ARG:NH2	2.44	0.42
8:5U:44:LEU:HG	8:5Z:7:LYS:O	2.09	0.42
8:5U:91:PHE:CD2	8:5U:105:PHE:HB2	2.55	0.42
8:5Y:116:HIS:HB3	8:5Z:28:ARG:HA	2.01	0.42
9:7C:68:ASP:H	9:7C:133:GLY:HA3	1.84	0.42
11:6F:77:ARG:HH22	11:6F:175:PHE:N	2.17	0.42
11:6E:20:PRO:O	11:6D:187:ARG:HA	2.19	0.42
11:6E:72:GLN:HA	11:6E:183:PHE:CZ	2.55	0.42
10:8B:210:GLU:HA	10:8B:217:ARG:HH22	1.84	0.42
1:C5:149:SER:HB3	1:C5:152:ALA:HB2	2.02	0.41
1:X4:277:MET:HG2	1:X4:330:ILE:HG12	2.02	0.41
1:Z4:253:ASN:ND2	1:A5:289:LYS:HE3	2.34	0.41
1:B5:343:GLU:HB3	1:B5:368:VAL:HG23	2.02	0.41
1:W4:290:ASP:HA	2:A3:8:ALA:HB3	2.01	0.41
1:T4:227:LYS:HE2	1:T4:227:LYS:HB2	1.81	0.41
1:V4:167:ILE:HG21	1:V4:342:ALA:HB3	2.02	0.41
1:D4:140:LYS:HG3	1:D4:141:THR:HG23	2.01	0.41
1:E4:269:TYR:OH	1:E4:374:ASP:OD2	2.34	0.41
1:G4:189:ASP:OD1	1:G4:189:ASP:N	2.53	0.41
2:D2:21:ILE:H	2:D2:21:ILE:HG13	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OO:119:SER:O	1:OO:119:SER:OG	2.38	0.41
1:TO:330:ILE:HD12	1:TO:381:LEU:HD23	2.02	0.41
1:KO:129:VAL:HG11	1:KO:342:ALA:HB1	2.02	0.41
1:KO:182:LEU:O	1:KO:186:SER:OG	2.31	0.41
1:EO:139:ASP:OD1	1:EO:139:ASP:N	2.52	0.41
1:FO:171:GLU:HA	1:FO:367:ARG:HA	2.02	0.41
1:GO:150:GLU:HG3	1:CO:91:ASN:CB	2.45	0.41
1:CO:189:ASP:OD1	1:CO:189:ASP:N	2.48	0.41
2:EN:38:VAL:HG21	2:EN:58:VAL:HG21	2.02	0.41
2:DN:38:VAL:HG21	2:DN:58:VAL:HG21	2.02	0.41
2:CN:45:VAL:HG12	2:CN:55:THR:HG22	2.01	0.41
2:AL:2:ASP:OD1	2:AL:2:ASP:N	2.51	0.41
1:CK:110:ILE:HD11	1:CK:193:TRP:CE2	2.54	0.41
1:ZJ:253:ASN:ND2	1:AK:289:LYS:HE3	2.34	0.41
1:AK:143:MET:HB3	1:AK:160:PRO:HD3	2.02	0.41
1:NJ:92:SER:HB3	1:FJ:182:LEU:HB2	2.01	0.41
1:NJ:281:THR:HA	1:NJ:323:ILE:HD11	2.01	0.41
1:MJ:150:GLU:OE1	1:OJ:91:ASN:HB2	2.20	0.41
1:OJ:338:GLY:O	1:OJ:373:SER:N	2.49	0.41
1:AJ:277:MET:HG2	1:AJ:330:ILE:HG12	2.02	0.41
1:EJ:162:ILE:H	1:EJ:162:ILE:HG13	1.56	0.41
1:FJ:338:GLY:O	1:FJ:373:SER:N	2.49	0.41
2:EI:2:ASP:OD1	2:EI:2:ASP:N	2.51	0.41
2:AI:38:VAL:HG21	2:AI:58:VAL:HG21	2.02	0.41
1:IE:354:PHE:CD1	1:F9:352:ASP:HB3	2.55	0.41
1:AE:193:TRP:CH2	1:A9:162:ILE:HD11	2.55	0.41
1:DE:253:ASN:HD21	1:EE:289:LYS:HD2	1.84	0.41
1:BE:263:TYR:OH	1:CE:305:GLU:OE1	2.28	0.41
2:AB:38:VAL:HG21	2:AB:58:VAL:HG21	2.02	0.41
1:X9:227:LYS:HE2	1:X9:227:LYS:HB2	1.91	0.41
1:Y9:227:LYS:HB2	1:Y9:227:LYS:HE2	1.85	0.41
1:AA:219:PRO:HG3	1:AA:369:GLY:HA2	2.02	0.41
1:Q9:215:GLY:HA2	1:Q9:220:THR:HG22	2.02	0.41
1:P9:90:LEU:HB3	1:P9:91:ASN:H	1.70	0.41
1:I9:118:ALA:HA	1:I9:122:GLN:HE22	1.85	0.41
2:D7:38:VAL:HG21	2:D7:58:VAL:HG21	2.02	0.41
2:C7:36:LEU:HD11	2:C7:68:PRO:HG2	2.01	0.41
5:1B:270:TRP:CD1	5:1C:273:MET:HE2	2.55	0.41
7:3A:11:VAL:HG22	7:3A:34:GLU:HG2	2.02	0.41
8:5G:10:LEU:HD13	8:5G:23:THR:HG21	2.03	0.41
8:5F:98:PHE:CZ	8:5E:77:GLU:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5E:27:LEU:O	8:5E:27:LEU:CD1	2.61	0.41
4:2H:150:ASP:HB2	4:2H:183:LEU:HD22	2.01	0.41
8:5V:134:PHE:CD2	8:5U:80:ARG:CZ	3.03	0.41
5:1F:316:ALA:HB1	5:1F:364:VAL:HG11	2.02	0.41
5:1F:338:LEU:HD23	5:1F:338:LEU:HA	1.87	0.41
7:3C:11:VAL:HG22	7:3C:34:GLU:HG2	2.02	0.41
8:5O:44:LEU:HG	8:5T:7:LYS:HA	2.00	0.41
5:1C:316:ALA:HB1	5:1C:364:VAL:HG11	2.02	0.41
5:1D:264:LEU:HD13	5:1D:269:ASP:HA	2.02	0.41
5:1D:316:ALA:HB1	5:1D:364:VAL:HG11	2.02	0.41
8:5Z:10:LEU:HD13	8:5Z:23:THR:HG21	2.02	0.41
8:5Z:113:ALA:O	8:5O:9:LEU:HD21	2.20	0.41
8:53:10:LEU:HD13	8:53:23:THR:HG21	2.02	0.41
10:8B:941:VAL:HA	10:8B:954:ARG:HA	2.01	0.41
11:6D:186:ASP:N	11:6D:186:ASP:OD1	2.52	0.41
1:A5:143:MET:HB3	1:A5:160:PRO:HD3	2.02	0.41
1:M4:352:ASP:OD1	1:M4:352:ASP:N	2.51	0.41
1:P4:285:VAL:HA	1:P4:288:MET:HE2	2.02	0.41
1:W4:114:LEU:HB3	1:V4:269:TYR:HE1	1.85	0.41
1:T4:261:LEU:HD13	1:T4:381:LEU:HB2	2.02	0.41
1:V4:181:ARG:HG3	1:CP:367:ARG:NH1	2.33	0.41
1:E4:223:LEU:O	1:E4:227:LYS:NZ	2.33	0.41
1:G4:322:ASP:OD1	1:G4:322:ASP:N	2.50	0.41
1:B4:198:ILE:HG21	1:B4:364:ALA:HB3	2.01	0.41
1:B4:201:LYS:HZ3	1:B4:205:ALA:HB2	1.83	0.41
2:A3:45:VAL:HG12	2:A3:55:THR:HG22	2.01	0.41
2:D2:14:PRO:HD2	2:C2:11:LEU:HD23	2.02	0.41
2:C2:47:ARG:HE	2:C2:72:LEU:HD11	1.85	0.41
1:CP:149:SER:HB3	1:CP:152:ALA:HB2	2.02	0.41
1:WO:227:LYS:HG2	1:WO:380:LEU:HD22	2.01	0.41
1:TO:343:GLU:HB3	1:TO:368:VAL:HG23	2.01	0.41
1:SO:227:LYS:HB2	1:SO:227:LYS:HE2	1.87	0.41
1:IO:285:VAL:HG11	1:IO:309:LEU:HD11	2.02	0.41
1:DO:149:SER:HB3	1:DO:152:ALA:HB2	2.01	0.41
2:AL:36:LEU:HD11	2:AL:68:PRO:HG2	2.01	0.41
1:AK:134:PHE:HB3	1:AK:167:ILE:HB	2.01	0.41
1:BK:349:VAL:HG21	5:1J:41:TRP:HZ2	1.82	0.41
1:NJ:100:TYR:O	1:EJ:164:ARG:NH1	2.53	0.41
1:NJ:114:LEU:HB2	1:MJ:269:TYR:CZ	2.56	0.41
1:NJ:277:MET:HG2	1:NJ:330:ILE:HG12	2.00	0.41
1:OJ:281:THR:HG23	1:OJ:323:ILE:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WJ:114:LEU:HB3	1:VJ:269:TYR:HE1	1.85	0.41
1:WJ:227:LYS:HE2	1:WJ:227:LYS:HB2	1.88	0.41
1:KJ:322:ASP:OD1	1:KJ:322:ASP:N	2.53	0.41
1:DJ:285:VAL:HG13	1:DJ:288:MET:HE2	2.02	0.41
1:FJ:171:GLU:HA	1:FJ:367:ARG:HA	2.02	0.41
1:GJ:281:THR:HG23	1:GJ:323:ILE:HD11	2.02	0.41
1:BJ:143:MET:HG2	1:BJ:160:PRO:HD3	2.02	0.41
1:ZE:299:ASP:OD1	1:ZE:299:ASP:N	2.52	0.41
1:BF:277:MET:HG2	1:BF:330:ILE:HG12	2.03	0.41
1:NE:281:THR:HA	1:NE:323:ILE:HD11	2.01	0.41
1:UE:287:LYS:O	2:DD:6:LYS:HB3	2.20	0.41
1:TE:330:ILE:HD12	1:TE:381:LEU:HD23	2.02	0.41
1:KE:268:GLU:HG2	1:LE:114:LEU:HG	2.02	0.41
1:IE:227:LYS:HE2	1:IE:227:LYS:HB2	1.86	0.41
1:AE:277:MET:HG2	1:AE:330:ILE:HG12	2.02	0.41
1:EE:269:TYR:CZ	1:FE:114:LEU:HB2	2.56	0.41
1:FE:101:LEU:N	1:FE:101:LEU:CD1	2.79	0.41
1:BE:223:LEU:O	1:BE:227:LYS:NZ	2.34	0.41
1:CE:162:ILE:H	1:CE:162:ILE:HG13	1.61	0.41
2:ED:36:LEU:HD11	2:ED:68:PRO:HG2	2.01	0.41
2:AD:36:LEU:HD11	2:AD:68:PRO:HG2	2.01	0.41
2:BD:38:VAL:HG21	2:BD:58:VAL:HG21	2.02	0.41
2:BC:36:LEU:HD11	2:BC:68:PRO:HG2	2.01	0.41
2:BC:38:VAL:HG21	2:BC:58:VAL:HG21	2.02	0.41
1:X9:297:TRP:CD1	1:Y9:302:ALA:HB2	2.56	0.41
1:R9:286:ARG:NH2	1:R9:305:GLU:H	2.18	0.41
1:Q9:114:LEU:HB2	1:P9:269:TYR:CZ	2.54	0.41
1:P9:322:ASP:OD1	1:P9:322:ASP:N	2.53	0.41
1:W9:106:THR:HA	1:V9:135:ASP:HB2	2.01	0.41
1:W9:114:LEU:HB3	1:V9:269:TYR:CE1	2.55	0.41
1:U9:287:LYS:O	2:D8:6:LYS:HB3	2.20	0.41
1:T9:261:LEU:HD13	1:T9:381:LEU:HB2	2.02	0.41
1:V9:167:ILE:HG21	1:V9:342:ALA:HB3	2.02	0.41
1:L9:256:ASP:C	1:L9:256:ASP:OD1	2.63	0.41
1:D9:113:VAL:CG2	1:C9:235:TRP:CZ3	3.03	0.41
1:D9:352:ASP:N	1:D9:352:ASP:OD1	2.50	0.41
1:B9:143:MET:HG2	1:B9:160:PRO:HD3	2.02	0.41
2:C8:45:VAL:HG12	2:C8:55:THR:HG22	2.01	0.41
2:A7:54:VAL:HG21	2:B7:81:VAL:HG21	2.01	0.41
4:2A:53:ARG:HD3	5:1A:235:VAL:HG22	2.01	0.41
5:1B:316:ALA:HB1	5:1B:364:VAL:HG11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:5S:112:TYR:HB2	8:5T:32:ILE:CG2	2.50	0.41
8:5M:97:ASP:HB3	8:5R:72:ASP:HB2	2.01	0.41
6:4F:51:ASP:N	6:4F:51:ASP:OD1	2.52	0.41
8:5F:34:PHE:HB3	8:5E:83:PHE:CZ	2.55	0.41
8:5F:41:VAL:HG13	8:5K:69:VAL:HG11	2.01	0.41
8:5X:35:ASN:HA	8:5W:109:SER:CB	2.51	0.41
4:2I:93:ASP:OD1	4:2I:96:GLY:N	2.50	0.41
7:3E:11:VAL:HG22	7:3E:34:GLU:HG2	2.02	0.41
8:5W:32:ILE:O	8:5V:111:ASP:HA	2.18	0.41
8:5K:10:LEU:HD13	8:5K:23:THR:HG21	2.03	0.41
8:5Q:41:VAL:HG22	8:5V:119:GLU:OE2	2.20	0.41
5:1G:316:ALA:HB1	5:1G:364:VAL:HG11	2.02	0.41
8:5V:55:GLY:HA3	8:5U:88:VAL:CG1	2.50	0.41
5:1E:391:PRO:HA	5:1E:392:PRO:HD3	1.87	0.41
5:1F:391:PRO:HA	5:1F:392:PRO:HD3	1.91	0.41
5:1D:177:CYS:HB2	5:1D:341:TRP:CD2	2.56	0.41
9:7A:191:PHE:HB2	9:7A:226:ARG:HH22	1.85	0.41
11:6B:24:THR:OG1	11:6A:72:GLN:HG2	2.20	0.41
11:6A:160:SER:HA	11:6A:169:ALA:H	1.85	0.41
11:6F:160:SER:HA	11:6F:169:ALA:H	1.85	0.41
11:6E:20:PRO:HB3	11:6E:43:SER:HB3	2.02	0.41
8:52:91:PHE:CD2	8:52:105:PHE:HB2	2.55	0.41
9:7B:203:VAL:HB	9:7B:244:VAL:HG12	2.02	0.41
11:6C:55:SER:HA	8:50:54:LEU:HD11	2.01	0.41
1:A5:219:PRO:HG3	1:A5:369:GLY:HA2	2.02	0.41
1:R4:90:LEU:HB3	1:R4:91:ASN:H	1.65	0.41
1:I4:285:VAL:HG11	1:I4:309:LEU:HD11	2.02	0.41
2:D3:47:ARG:HE	2:D3:72:LEU:HD11	1.85	0.41
2:C2:38:VAL:HG21	2:C2:58:VAL:HG21	2.02	0.41
2:B2:47:ARG:HE	2:B2:72:LEU:HD11	1.85	0.41
1:AP:206:GLU:OE1	1:AP:368:VAL:HG11	2.19	0.41
1:MO:150:GLU:OE1	1:OO:91:ASN:HB2	2.20	0.41
1:EO:227:LYS:HB2	1:EO:227:LYS:HE2	1.88	0.41
2:DN:19:TYR:OH	2:DN:31:ARG:O	2.23	0.41
2:CN:21:ILE:H	2:CN:21:ILE:HG13	1.79	0.41
2:BN:38:VAL:HG21	2:BN:58:VAL:HG21	2.02	0.41
2:AL:45:VAL:HG12	2:AL:55:THR:HG22	2.01	0.41
1:XJ:297:TRP:CD1	1:YJ:302:ALA:HB2	2.56	0.41
1:PJ:227:LYS:HE2	1:PJ:227:LYS:HB2	1.88	0.41
1:PJ:285:VAL:HA	1:PJ:288:MET:HE2	2.03	0.41
1:UJ:287:LYS:O	2:DI:6:LYS:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SJ:122:GLN:HG2	1:SJ:123:ILE:HG23	2.02	0.41
1:SJ:171:GLU:HG2	1:KJ:181:ARG:HH21	1.85	0.41
1:KJ:129:VAL:HG11	1:KJ:342:ALA:HB1	2.02	0.41
1:VJ:167:ILE:HG21	1:VJ:342:ALA:HB3	2.02	0.41
1:EJ:139:ASP:N	1:EJ:139:ASP:OD1	2.52	0.41
2:AG:45:VAL:HG12	2:AG:55:THR:HG22	2.01	0.41
2:DH:47:ARG:HE	2:DH:72:LEU:HD11	1.85	0.41
2:CH:38:VAL:HG21	2:CH:58:VAL:HG21	2.02	0.41
2:BH:36:LEU:HD11	2:BH:68:PRO:HG2	2.01	0.41
1:NE:167:ILE:HG23	1:NE:370:GLY:HA2	2.03	0.41
1:SE:134:PHE:HB3	1:SE:167:ILE:HB	2.01	0.41
1:VE:181:ARG:HH21	1:CA:171:GLU:HG2	1.85	0.41
1:LE:277:MET:O	1:LE:317:ALA:N	2.52	0.41
2:AD:38:VAL:HG21	2:AD:58:VAL:HG21	2.02	0.41
2:AD:45:VAL:HG12	2:AD:55:THR:HG22	2.01	0.41
1:X9:277:MET:HG2	1:X9:330:ILE:HG12	2.02	0.41
1:BA:192:THR:HG21	5:1E:41:TRP:CG	2.42	0.41
1:BA:343:GLU:HB3	1:BA:368:VAL:HG23	2.02	0.41
1:N9:100:TYR:O	1:E9:164:ARG:NH1	2.53	0.41
1:P9:149:SER:HB3	1:P9:152:ALA:HB2	2.01	0.41
1:W9:290:ASP:HA	2:A8:8:ALA:HB3	2.01	0.41
1:T9:330:ILE:HD12	1:T9:381:LEU:HD23	2.02	0.41
1:K9:268:GLU:HG2	1:L9:114:LEU:HG	2.02	0.41
1:E9:143:MET:HE3	1:F9:197:ARG:HB2	2.01	0.41
2:E8:36:LEU:HD11	2:E8:68:PRO:HG2	2.01	0.41
2:E8:47:ARG:HE	2:E8:72:LEU:HD11	1.84	0.41
7:3A:22:ALA:HA	6:4B:11:ALA:HA	2.03	0.41
8:5M:44:LEU:HD21	8:5X:7:LYS:C	2.37	0.41
8:5M:69:VAL:HG11	8:5H:41:VAL:HG13	2.02	0.41
8:5M:134:PHE:CD2	8:5R:80:ARG:CZ	3.03	0.41
5:1K:191:LEU:HD23	5:1J:61:PHE:CE1	2.56	0.41
8:5X:3:ALA:HA	8:5W:71:LYS:HG2	2.02	0.41
8:5R:10:LEU:HD13	8:5R:23:THR:HG21	2.03	0.41
8:5R:41:VAL:HG22	8:5W:119:GLU:OE2	2.20	0.41
5:1J:177:CYS:HB2	5:1J:341:TRP:CD2	2.56	0.41
8:5Q:91:PHE:CD2	8:5Q:105:PHE:HB2	2.55	0.41
5:1G:391:PRO:HA	5:1G:392:PRO:HD3	1.87	0.41
6:4D:97:LEU:HG	6:4D:104:LEU:HD21	2.02	0.41
8:5V:97:ASP:HB3	8:5U:72:ASP:CB	2.37	0.41
8:5J:50:TRP:CE3	8:5I:60:ARG:HG3	2.55	0.41
4:2E:111:MET:HG3	4:2D:2:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1F:177:CYS:HB2	5:1F:341:TRP:CD2	2.56	0.41
5:1C:95:ARG:HA	5:1C:103:ARG:HB2	2.02	0.41
8:5H:133:SER:OG	8:5H:134:PHE:N	2.53	0.41
9:7A:33:GLY:HA3	9:7A:48:PHE:HA	2.02	0.41
9:7A:263:ASN:HD21	9:7A:266:ASN:HD22	1.68	0.41
10:8C:14:GLY:HA2	10:8C:15:GLY:HA2	1.61	0.41
10:8C:863:GLY:H	10:8C:892:ALA:HB3	1.83	0.41
9:7B:147:HIS:CD2	9:7B:149:ARG:HB2	2.56	0.41
9:7B:191:PHE:HB2	9:7B:226:ARG:HH22	1.85	0.41
10:8B:225:ILE:HA	10:8B:226:PRO:HD3	1.91	0.41
8:51:133:SER:OG	8:51:134:PHE:N	2.53	0.41
1:B5:130:GLU:O	1:B5:344:ARG:NH1	2.48	0.41
1:R4:286:ARG:NH2	1:R4:305:GLU:H	2.18	0.41
1:Q4:215:GLY:HA2	1:Q4:220:THR:HG22	2.02	0.41
1:H4:182:LEU:O	1:H4:186:SER:OG	2.30	0.41
1:F4:171:GLU:HA	1:F4:367:ARG:HA	2.02	0.41
1:G4:277:MET:HG2	1:G4:330:ILE:HG12	2.01	0.41
2:E2:45:VAL:HG12	2:E2:55:THR:HG22	2.01	0.41
1:BP:277:MET:O	1:BP:317:ALA:N	2.48	0.41
1:BP:289:LYS:HB2	1:BP:293:GLY:HA2	2.02	0.41
1:QO:223:LEU:O	1:QO:227:LYS:NZ	2.37	0.41
1:SO:171:GLU:HG2	1:KO:181:ARG:HH21	1.85	0.41
1:JO:227:LYS:HE2	1:JO:227:LYS:HB2	1.87	0.41
1:AO:227:LYS:HB2	1:AO:227:LYS:HE2	1.89	0.41
1:EO:269:TYR:CZ	1:FO:114:LEU:HB2	2.56	0.41
1:CO:181:ARG:NH2	1:AJ:148:ALA:O	2.53	0.41
2:CN:38:VAL:HG21	2:CN:58:VAL:HG21	2.02	0.41
2:DM:38:VAL:HG21	2:DM:58:VAL:HG21	2.02	0.41
1:XJ:227:LYS:HE2	1:XJ:227:LYS:HB2	1.91	0.41
1:YJ:300:SER:OG	1:YJ:302:ALA:O	2.36	0.41
1:ZJ:251:ALA:C	1:ZJ:252:VAL:HG22	2.44	0.41
1:AK:219:PRO:HG3	1:AK:369:GLY:HA2	2.02	0.41
1:OJ:211:ILE:HD12	1:OJ:319:ASP:HB2	2.01	0.41
1:UJ:189:ASP:HB3	1:UJ:192:THR:HG22	2.01	0.41
1:AJ:242:ALA:HA	1:AJ:382:LYS:O	2.21	0.41
1:EJ:269:TYR:CZ	1:FJ:114:LEU:HB2	2.56	0.41
1:AF:162:ILE:O	4:2E:125:MET:SD	2.78	0.41
1:ME:150:GLU:OE1	1:OE:91:ASN:HB2	2.20	0.41
1:QE:215:GLY:HA2	1:QE:220:THR:HG22	2.02	0.41
1:TE:223:LEU:HD21	1:TE:320:MET:HE3	2.02	0.41
1:EE:139:ASP:N	1:EE:139:ASP:OD1	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DD:81:VAL:HG21	2:CD:54:VAL:HG21	2.01	0.41
2:AC:54:VAL:HG21	2:BC:81:VAL:HG21	2.01	0.41
1:Z9:141:THR:HG22	1:Z9:161:GLN:HG2	2.03	0.41
1:AA:225:LYS:HZ1	1:AA:371:ASP:HB2	1.85	0.41
1:M9:277:MET:O	1:M9:317:ALA:N	2.49	0.41
1:P9:125:SER:OG	1:P9:336:GLY:O	2.32	0.41
1:J9:255:SER:O	1:J9:258:VAL:HG12	2.20	0.41
1:D9:149:SER:HB3	1:D9:152:ALA:HB2	2.01	0.41
2:A7:47:ARG:HE	2:A7:72:LEU:HD11	1.84	0.41
8:5A:83:PHE:CZ	8:5B:34:PHE:HB3	2.55	0.41
8:5A:91:PHE:CD2	8:5A:105:PHE:HB2	2.56	0.41
8:5S:10:LEU:HD13	8:5S:23:THR:HG21	2.03	0.41
8:5G:3:ALA:HA	8:5L:71:LYS:HG2	2.02	0.41
8:5G:91:PHE:CD2	8:5G:105:PHE:HB2	2.55	0.41
8:5M:91:PHE:CD2	8:5M:105:PHE:HB2	2.55	0.41
8:5M:98:PHE:HE2	8:5R:112:TYR:OH	2.04	0.41
8:5M:119:GLU:HG2	8:5H:41:VAL:HG22	2.01	0.41
5:1L:177:CYS:HB2	5:1L:341:TRP:CD2	2.56	0.41
5:1I:273:MET:HE2	5:1H:270:TRP:CD1	2.55	0.41
8:5W:60:ARG:NH1	8:5V:86:GLY:HA3	2.35	0.41
8:5Q:44:LEU:HD11	8:5V:6:GLY:O	2.21	0.41
5:1H:210:TRP:CE3	5:1F:255:ALA:HA	2.55	0.41
5:1H:338:LEU:HA	5:1H:338:LEU:HD23	1.87	0.41
7:3D:53:THR:OG1	6:4C:119:LYS:HG3	2.20	0.41
8:5V:60:ARG:NH1	8:5U:86:GLY:HA3	2.35	0.41
5:1F:264:LEU:HD13	5:1F:269:ASP:HA	2.02	0.41
4:2F:150:ASP:HB2	4:2F:183:LEU:HD22	2.01	0.41
8:5U:133:SER:OG	8:5U:134:PHE:N	2.53	0.41
8:5I:133:SER:OG	8:5I:134:PHE:N	2.53	0.41
7:3B:11:VAL:HG22	7:3B:34:GLU:HG2	2.02	0.41
8:5B:91:PHE:CD2	8:5B:105:PHE:HB2	2.56	0.41
8:5Y:9:LEU:HD21	8:53:113:ALA:O	2.19	0.41
8:5Z:119:GLU:C	8:50:6:GLY:CA	2.93	0.41
9:7C:145:ILE:HG21	9:7C:145:ILE:HD13	1.81	0.41
10:8C:79:MET:HE1	10:8C:870:VAL:HG11	2.02	0.41
11:6E:22:ARG:NH2	11:6E:170:ARG:HH11	2.17	0.41
10:8B:201:VAL:HG13	10:8B:762:VAL:HG13	2.02	0.41
10:8B:220:ARG:O	10:8B:220:ARG:CG	2.67	0.41
10:8B:958:VAL:HG13	10:8B:964:ILE:HG23	2.02	0.41
11:6D:24:THR:OG1	11:6C:72:GLN:HG2	2.20	0.41
8:50:100:ILE:H	8:50:135:THR:HG22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:164:ARG:NH1	1:AA:100:TYR:O	2.54	0.41
1:B5:289:LYS:HB2	1:B5:293:GLY:HA2	2.02	0.41
1:N4:114:LEU:HB2	1:M4:269:TYR:CZ	2.56	0.41
1:J4:114:LEU:HG	1:I4:268:GLU:HG2	2.02	0.41
1:A4:289:LYS:HE3	1:A4:289:LYS:HB3	1.91	0.41
1:E4:268:GLU:HG3	1:F4:114:LEU:HD23	2.03	0.41
1:C4:181:ARG:NH2	1:AO:148:ALA:O	2.53	0.41
2:E3:38:VAL:HG21	2:E3:58:VAL:HG21	2.02	0.41
1:XO:297:TRP:CD1	1:YO:302:ALA:HB2	2.56	0.41
1:AP:126:VAL:HG12	1:AP:341:ILE:HB	2.01	0.41
1:AP:143:MET:HB3	1:AP:143:MET:HE3	1.99	0.41
1:MO:157:THR:CG2	1:MO:158:ALA:H	2.30	0.41
1:QO:215:GLY:HA2	1:QO:220:THR:HG22	2.02	0.41
1:OO:263:TYR:OH	1:PO:286:ARG:NH2	2.47	0.41
1:WO:268:GLU:HG2	1:SO:114:LEU:HG	2.03	0.41
1:JO:111:ARG:N	1:IO:137:LEU:O	2.53	0.41
1:JO:114:LEU:HG	1:IO:268:GLU:HG2	2.02	0.41
1:AO:242:ALA:HA	1:AO:382:LYS:O	2.21	0.41
1:BK:227:LYS:HE2	1:BK:227:LYS:HB2	1.92	0.41
2:CH:45:VAL:HG12	2:CH:55:THR:HG22	2.01	0.41
1:CF:106:THR:HG22	1:BF:135:ASP:HB2	2.02	0.41
1:CF:110:ILE:HD11	1:CF:193:TRP:CE2	2.54	0.41
1:XE:297:TRP:CD1	1:YE:302:ALA:HB2	2.56	0.41
1:BF:344:ARG:HE	1:BF:367:ARG:HD3	1.86	0.41
1:VE:167:ILE:HG21	1:VE:342:ALA:HB3	2.02	0.41
1:DE:285:VAL:HG13	1:DE:288:MET:HE2	2.01	0.41
1:EE:277:MET:O	1:EE:317:ALA:N	2.44	0.41
1:GE:277:MET:HG2	1:GE:330:ILE:HG12	2.01	0.41
2:ED:47:ARG:HE	2:ED:72:LEU:HD11	1.84	0.41
1:CA:171:GLU:HA	1:CA:367:ARG:HA	2.01	0.41
1:AA:143:MET:HB3	1:AA:160:PRO:HD3	2.02	0.41
1:BA:175:MET:HG2	1:BA:361:LEU:HD11	2.02	0.41
1:N9:167:ILE:HG23	1:N9:370:GLY:HA2	2.03	0.41
1:Q9:338:GLY:O	1:Q9:373:SER:N	2.42	0.41
1:T9:223:LEU:HD21	1:T9:320:MET:HE3	2.02	0.41
1:J9:316:ILE:HG21	1:I9:270:ARG:HH12	1.85	0.41
1:E9:268:GLU:HG3	1:F9:114:LEU:HD23	2.03	0.41
1:E9:269:TYR:CZ	1:F9:114:LEU:HB2	2.56	0.41
1:F9:101:LEU:HD12	1:F9:101:LEU:H	1.82	0.41
1:G9:256:ASP:HB2	1:B9:287:LYS:HE3	2.03	0.41
2:D8:81:VAL:HG21	2:C8:54:VAL:HG21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:36:LEU:HD11	2:C8:68:PRO:HG2	2.01	0.41
4:2A:166:ARG:HD2	4:2B:22:HIS:CE1	2.56	0.41
5:1B:177:CYS:HB2	5:1B:341:TRP:CD2	2.56	0.41
6:4A:113:LYS:HG3	6:4A:114:ALA:H	1.86	0.41
8:5F:64:ILE:HB	8:5F:126:MET:HB2	2.01	0.41
8:5L:133:SER:OG	8:5L:134:PHE:N	2.53	0.41
8:5E:28:ARG:HB3	8:5D:116:HIS:CD2	2.56	0.41
8:5W:10:LEU:HD13	8:5W:23:THR:HG21	2.03	0.41
8:5K:44:LEU:HA	8:5O:116:HIS:HB2	2.03	0.41
8:5K:133:SER:OG	8:5K:134:PHE:N	2.53	0.41
8:5D:41:VAL:HG22	8:5I:119:GLU:HG2	2.02	0.41
8:5J:91:PHE:CD2	8:5J:105:PHE:HB2	2.55	0.41
8:5C:91:PHE:CD2	8:5C:105:PHE:HB2	2.56	0.41
4:2D:81:ALA:HB1	4:2D:111:MET:O	2.21	0.41
9:7A:98:VAL:HG23	9:7A:112:ILE:HB	2.03	0.41
11:6A:20:PRO:O	11:6F:187:ARG:HA	2.21	0.41
8:5Y:9:LEU:HD21	8:53:113:ALA:C	2.45	0.41
10:8C:224:LEU:O	10:8C:224:LEU:HD22	2.21	0.41
10:8C:885:PHE:HA	10:8C:886:PRO:HD3	1.92	0.41
8:52:33:SER:HA	8:51:111:ASP:CB	2.49	0.41
8:51:100:ILE:H	8:51:135:THR:HG22	1.86	0.41
1:Q4:307:ALA:O	1:Q4:308:ARG:NE	2.46	0.41
1:O4:352:ASP:OD1	1:O4:352:ASP:N	2.54	0.41
1:V4:277:MET:O	1:V4:317:ALA:N	2.50	0.41
1:L4:256:ASP:OD1	1:L4:256:ASP:C	2.63	0.41
1:L4:324:ALA:HB3	1:L4:327:ALA:HB2	2.03	0.41
1:E4:269:TYR:CZ	1:F4:114:LEU:HB2	2.56	0.41
1:G4:263:TYR:OH	1:B4:286:ARG:NH1	2.53	0.41
2:A1:38:VAL:HG21	2:A1:58:VAL:HG21	2.02	0.41
1:PO:223:LEU:O	1:PO:227:LYS:NZ	2.38	0.41
1:LO:277:MET:O	1:LO:317:ALA:N	2.52	0.41
1:DO:209:ALA:HB1	1:DO:219:PRO:HD2	2.03	0.41
1:DO:253:ASN:HD21	1:EO:289:LYS:HD2	1.84	0.41
1:GO:263:TYR:OH	1:BO:286:ARG:NH1	2.53	0.41
2:AM:38:VAL:HG21	2:AM:58:VAL:HG21	2.02	0.41
1:ZJ:141:THR:HG22	1:ZJ:161:GLN:HG2	2.03	0.41
1:BK:277:MET:HG2	1:BK:330:ILE:HG12	2.03	0.41
1:NJ:142:ASP:HB3	1:OJ:115:ARG:NH1	2.35	0.41
1:QJ:215:GLY:HA2	1:QJ:220:THR:HG22	2.02	0.41
1:HJ:145:SER:HB3	1:IJ:172:LEU:HD11	2.02	0.41
1:CJ:107:SER:OG	1:CJ:108:GLU:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CJ:350:LEU:HD11	1:BE:354:PHE:CE1	2.55	0.41
2:AH:2:ASP:OD1	2:AH:2:ASP:N	2.51	0.41
1:AF:143:MET:O	1:BF:201:LYS:NZ	2.49	0.41
1:AF:219:PRO:HG3	1:AF:369:GLY:HA2	2.02	0.41
1:NE:114:LEU:HB2	1:ME:269:TYR:CZ	2.56	0.41
1:PE:285:VAL:HA	1:PE:288:MET:HE2	2.02	0.41
1:DE:149:SER:HB3	1:DE:152:ALA:HB2	2.01	0.41
1:DE:297:TRP:CE2	1:DE:309:LEU:HD23	2.55	0.41
1:CE:107:SER:OG	1:CE:108:GLU:N	2.54	0.41
1:X9:167:ILE:HD12	1:X9:370:GLY:HA2	2.02	0.41
1:Y9:175:MET:HE3	1:Y9:361:LEU:HD11	2.01	0.41
1:N9:114:LEU:HB2	1:M9:269:TYR:CZ	2.56	0.41
1:M9:150:GLU:OE1	1:O9:91:ASN:HB2	2.20	0.41
1:L9:223:LEU:O	1:L9:227:LYS:NZ	2.34	0.41
1:G9:91:ASN:OD1	1:G9:91:ASN:N	2.53	0.41
2:B8:38:VAL:HG21	2:B8:58:VAL:HG21	2.02	0.41
4:2A:175:ALA:HB3	4:2L:170:ALA:HB1	2.02	0.41
5:1B:268:LEU:HD11	4:2C:190:VAL:HG13	2.03	0.41
8:5A:60:ARG:NH1	8:5F:86:GLY:HA3	2.35	0.41
8:5S:57:ALA:CB	8:5Y:5:ASN:OD1	2.68	0.41
8:5S:133:SER:OG	8:5S:134:PHE:N	2.53	0.41
8:5M:53:LEU:HB2	8:5R:129:ALA:HA	2.01	0.41
8:5M:76:ASP:O	8:5N:98:PHE:HZ	2.03	0.41
5:1K:251:HIS:CB	4:2L:193:LEU:HD13	2.51	0.41
4:2L:3:LEU:HD22	4:2L:79:PRO:HG2	2.01	0.41
6:4F:113:LYS:HG3	6:4F:114:ALA:H	1.86	0.41
8:5X:116:HIS:HB2	8:5N:44:LEU:HA	2.02	0.41
8:5R:100:ILE:H	8:5R:135:THR:HG22	1.86	0.41
5:1J:280:MET:HA	5:1J:283:HIS:HB2	2.03	0.41
8:5W:50:TRP:CZ3	8:5U:83:PHE:HE2	2.38	0.41
8:5K:31:ARG:NH1	8:5J:111:ASP:OD2	2.52	0.41
5:1G:268:LEU:HD11	4:2H:190:VAL:HG13	2.03	0.41
5:1H:316:ALA:HB1	5:1H:364:VAL:HG11	2.02	0.41
6:4D:111:ARG:HH11	6:4D:111:ARG:CG	2.34	0.41
8:5D:32:ILE:HG23	8:5C:112:TYR:HB2	2.03	0.41
8:5D:64:ILE:HB	8:5D:126:MET:HB2	2.01	0.41
8:5V:33:SER:CB	8:5U:111:ASP:HB3	2.50	0.41
4:2E:166:ARG:HD2	4:2F:22:HIS:CE1	2.56	0.41
5:1E:268:LEU:HD11	4:2F:190:VAL:HG13	2.03	0.41
8:5O:100:ILE:H	8:5O:135:THR:HG22	1.86	0.41
5:1C:251:HIS:HB3	4:2D:193:LEU:HD13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4B:111:ARG:HH11	6:4B:111:ARG:CG	2.34	0.41
8:5N:100:ILE:H	8:5N:135:THR:HG22	1.86	0.41
8:5N:133:SER:OG	8:5N:134:PHE:N	2.53	0.41
10:8A:953:TYR:HB3	10:8A:968:ALA:HB1	2.02	0.41
11:6B:200:LEU:HA	11:6B:201:PRO:HD3	1.84	0.41
8:5Z:100:ILE:H	8:5Z:135:THR:HG22	1.86	0.41
11:6C:22:ARG:NH2	11:6C:170:ARG:HH11	2.17	0.41
1:X4:277:MET:O	1:X4:317:ALA:N	2.50	0.41
1:X4:297:TRP:CD1	1:Y4:302:ALA:HB2	2.56	0.41
1:Y4:150:GLU:OE1	1:A5:92:SER:OG	2.36	0.41
1:B5:262:VAL:HG21	1:B5:310:MET:HG2	2.03	0.41
1:N4:100:TYR:O	1:E4:164:ARG:NH1	2.53	0.41
1:M4:147:TRP:H	1:M4:147:TRP:HE3	1.68	0.41
1:M4:150:GLU:OE1	1:O4:91:ASN:HB2	2.20	0.41
1:Q4:338:GLY:HA2	1:Q4:374:ASP:HB3	2.03	0.41
1:W4:114:LEU:HB3	1:V4:269:TYR:CE1	2.55	0.41
1:U4:287:LYS:O	2:D3:6:LYS:HB3	2.20	0.41
1:S4:312:TYR:HA	1:S4:313:PRO:HD3	1.96	0.41
1:XO:162:ILE:HD13	1:QO:100:TYR:HB2	2.03	0.41
1:UO:287:LYS:O	2:DN:6:LYS:HB3	2.20	0.41
2:BN:19:TYR:OH	2:BN:31:ARG:O	2.22	0.41
2:DM:14:PRO:HD2	2:CM:11:LEU:HD23	2.02	0.41
1:CK:148:ALA:HB2	1:CK:154:LEU:HD22	2.01	0.41
1:CK:171:GLU:HA	1:CK:367:ARG:HA	2.01	0.41
1:XJ:162:ILE:HD13	1:QJ:100:TYR:HB2	2.03	0.41
1:ZJ:322:ASP:N	1:ZJ:322:ASP:OD1	2.53	0.41
1:NJ:167:ILE:HG23	1:NJ:370:GLY:HA2	2.03	0.41
1:QJ:338:GLY:HA2	1:QJ:374:ASP:HB3	2.03	0.41
1:UJ:277:MET:HG2	1:UJ:330:ILE:HG12	2.02	0.41
1:SJ:134:PHE:HB3	1:SJ:167:ILE:HB	2.01	0.41
1:JJ:111:ARG:N	1:IJ:137:LEU:O	2.53	0.41
1:VJ:181:ARG:HH21	1:CF:171:GLU:HG2	1.85	0.41
1:GJ:256:ASP:HB2	1:BJ:287:LYS:HE3	2.03	0.41
1:AF:177:LYS:HG3	1:AF:361:LEU:CD1	2.42	0.41
1:NE:101:LEU:H	1:NE:101:LEU:HG	1.64	0.41
1:OE:281:THR:HG23	1:OE:323:ILE:HD11	2.02	0.41
1:HE:171:GLU:HG2	1:G9:181:ARG:HH21	1.85	0.41
1:AE:347:LEU:HD22	1:AE:347:LEU:HA	1.88	0.41
1:GE:91:ASN:OD1	1:GE:91:ASN:N	2.53	0.41
1:GE:256:ASP:HB2	1:BE:287:LYS:HE3	2.03	0.41
1:GE:263:TYR:OH	1:BE:286:ARG:NH1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:179:SER:O	1:BE:183:LEU:HB2	2.21	0.41
2:DC:15:ALA:HB3	2:CC:66:VAL:HA	2.03	0.41
1:N9:142:ASP:HB3	1:O9:115:ARG:NH1	2.35	0.41
1:O9:94:VAL:HG23	1:O9:97:GLU:HB2	2.03	0.41
1:P9:285:VAL:HA	1:P9:288:MET:HE2	2.02	0.41
1:H9:198:ILE:HG21	1:H9:364:ALA:HB3	2.03	0.41
1:B9:214:ASP:OD1	1:B9:218:LYS:NZ	2.42	0.41
2:C8:19:TYR:OH	2:C8:31:ARG:O	2.23	0.41
2:E7:45:VAL:HG12	2:E7:55:THR:HG22	2.01	0.41
2:D7:14:PRO:HD2	2:C7:11:LEU:HD23	2.02	0.41
8:5S:88:VAL:HG13	8:5T:55:GLY:HA3	2.03	0.41
4:2K:92:VAL:CG1	4:2K:96:GLY:HA2	2.49	0.41
8:5X:10:LEU:HD13	8:5X:23:THR:HG21	2.02	0.41
8:5X:116:HIS:HA	8:5N:44:LEU:HB2	2.02	0.41
8:5L:44:LEU:HA	8:5P:116:HIS:HB2	2.02	0.41
8:5R:133:SER:OG	8:5R:134:PHE:N	2.53	0.41
5:1I:268:LEU:HD11	4:2J:190:VAL:HG13	2.03	0.41
4:2J:150:ASP:HB2	4:2J:183:LEU:HD22	2.01	0.41
8:5W:32:ILE:HG22	8:5V:112:TYR:O	2.21	0.41
8:5W:91:PHE:CD2	8:5W:105:PHE:HB2	2.55	0.41
4:2H:56:LYS:HE2	4:2H:187:TRP:HE3	1.86	0.41
5:1E:251:HIS:CB	4:2F:193:LEU:HD13	2.51	0.41
8:5C:57:ALA:HB2	8:5I:5:ASN:CG	2.46	0.41
8:5N:10:LEU:HD13	8:5N:23:THR:HG21	2.03	0.41
10:8A:849:ALA:CB	9:7C:124:ALA:HB2	2.50	0.41
11:6B:187:ARG:HA	11:6C:20:PRO:O	2.20	0.41
8:5Y:114:GLY:HA3	8:5Z:9:LEU:CD2	2.45	0.41
8:5Y:133:SER:OG	8:5Y:134:PHE:N	2.53	0.41
10:8C:159:PRO:HB2	10:8C:161:ILE:HG22	2.01	0.41
10:8C:787:LEU:HD23	10:8C:787:LEU:HA	1.74	0.41
10:8C:849:ALA:CB	9:7B:124:ALA:HB2	2.50	0.41
1:B5:175:MET:HG2	1:B5:361:LEU:HD11	2.02	0.41
1:Q4:194:LEU:HD22	1:P4:143:MET:HE1	2.03	0.41
1:E4:227:LYS:HB2	1:E4:227:LYS:HE2	1.88	0.41
1:G4:162:ILE:H	1:G4:162:ILE:HG13	1.50	0.41
1:G4:181:ARG:HH21	1:H9:171:GLU:HG2	1.86	0.41
1:G4:211:ILE:HD12	1:G4:319:ASP:HB2	2.02	0.41
1:C4:140:LYS:HG3	1:C4:235:TRP:CD1	2.56	0.41
2:A1:14:PRO:HD2	2:AL:11:LEU:HD23	2.02	0.41
1:NO:114:LEU:HB2	1:MO:269:TYR:CZ	2.56	0.41
1:MO:147:TRP:HE3	1:MO:147:TRP:H	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OO:94:VAL:HG23	1:OO:97:GLU:HB2	2.03	0.41
1:WO:382:LYS:HE2	1:WO:384:ALA:HB2	2.01	0.41
1:UO:154:LEU:HD23	1:VO:363:TYR:HE1	1.85	0.41
1:UO:277:MET:HG2	1:UO:330:ILE:HG12	2.02	0.41
1:SO:122:GLN:HG2	1:SO:123:ILE:HG23	2.02	0.41
1:SO:257:ALA:HB1	1:SO:381:LEU:HD11	2.03	0.41
1:HO:145:SER:HB3	1:IO:172:LEU:HD11	2.02	0.41
1:DO:285:VAL:HG13	1:DO:288:MET:HE2	2.01	0.41
1:GO:227:LYS:HG2	1:GO:380:LEU:HD22	2.03	0.41
2:EM:21:ILE:H	2:EM:21:ILE:HG13	1.79	0.41
2:DM:47:ARG:HE	2:DM:72:LEU:HD11	1.85	0.41
1:WJ:268:GLU:HG2	1:SJ:114:LEU:HG	2.03	0.41
1:JJ:324:ALA:HB3	1:JJ:327:ALA:HB2	2.03	0.41
1:JJ:381:LEU:HD12	1:JJ:381:LEU:HA	1.94	0.41
1:AJ:347:LEU:HD22	1:AJ:347:LEU:HA	1.88	0.41
1:BJ:92:SER:O	1:BJ:99:GLY:HA3	2.20	0.41
2:AG:81:VAL:HG21	2:AB:54:VAL:HG21	2.03	0.41
1:AF:143:MET:HB3	1:AF:160:PRO:HD3	2.02	0.41
1:AF:225:LYS:HZ1	1:AF:371:ASP:HB2	1.85	0.41
1:BF:262:VAL:HG21	1:BF:310:MET:HG2	2.03	0.41
1:PE:322:ASP:OD1	1:PE:322:ASP:N	2.53	0.41
1:WE:183:LEU:HD21	1:WE:362:PHE:HZ	1.86	0.41
1:GE:156:GLU:HG3	1:BE:175:MET:HE3	2.03	0.41
1:GE:211:ILE:HD12	1:GE:319:ASP:HB2	2.03	0.41
2:BC:47:ARG:HE	2:BC:72:LEU:HD11	1.85	0.41
1:R9:149:SER:OG	1:R9:150:GLU:N	2.53	0.41
1:Q9:338:GLY:HA2	1:Q9:374:ASP:HB3	2.03	0.41
1:U9:147:TRP:CD2	1:V9:172:LEU:HD13	2.56	0.41
1:S9:122:GLN:HG2	1:S9:123:ILE:HG23	2.02	0.41
1:D9:297:TRP:CE2	1:D9:309:LEU:HD23	2.55	0.41
1:D9:344:ARG:HE	1:D9:367:ARG:HD3	1.85	0.41
1:G9:281:THR:HG23	1:G9:323:ILE:HD11	2.01	0.41
2:A8:38:VAL:HG21	2:A8:58:VAL:HG21	2.02	0.41
2:A6:38:VAL:HG21	2:A6:58:VAL:HG21	2.02	0.41
5:1B:320:ARG:HH21	5:1B:365:GLU:HG3	1.86	0.41
4:2B:81:ALA:HB1	4:2B:111:MET:O	2.21	0.41
6:4A:97:LEU:HG	6:4A:104:LEU:HD21	2.02	0.41
6:4A:111:ARG:HH11	6:4A:111:ARG:CG	2.34	0.41
6:4A:118:GLU:C	6:4A:120:ALA:H	2.29	0.41
8:5A:57:ALA:HB2	8:5G:5:ASN:CG	2.46	0.41
4:2K:166:ARG:HD2	4:2L:22:HIS:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1L:280:MET:HA	5:1L:283:HIS:HB2	2.03	0.41
6:4F:104:LEU:HB3	6:4F:133:VAL:HG12	2.02	0.41
8:5F:91:PHE:CD2	8:5F:105:PHE:HB2	2.56	0.41
4:2I:166:ARG:HD2	4:2J:22:HIS:CE1	2.56	0.41
5:1I:240:GLN:NE2	4:2J:188:ARG:O	2.54	0.41
5:1J:338:LEU:HA	5:1J:338:LEU:HD23	1.87	0.41
8:5D:57:ALA:HB2	8:5J:5:ASN:CG	2.46	0.41
8:5D:98:PHE:CZ	8:5C:77:GLU:HA	2.55	0.41
8:5P:10:LEU:HD13	8:5P:23:THR:HG21	2.03	0.41
8:5P:42:THR:HG21	8:5T:116:HIS:HE1	1.85	0.41
8:5P:100:ILE:H	8:5P:135:THR:HG22	1.86	0.41
4:2E:53:ARG:HD3	5:1E:235:VAL:HG22	2.01	0.41
5:1F:280:MET:HA	5:1F:283:HIS:HB2	2.03	0.41
8:5C:94:ILE:HG12	8:5C:100:ILE:CG2	2.45	0.41
5:1C:251:HIS:CB	4:2D:193:LEU:HD13	2.51	0.41
5:1C:268:LEU:HD11	4:2D:190:VAL:HG13	2.03	0.41
6:4B:113:LYS:HG3	6:4B:114:ALA:H	1.86	0.41
8:5T:10:LEU:HD13	8:5T:23:THR:HG21	2.03	0.41
8:5N:91:PHE:CD2	8:5N:105:PHE:HB2	2.55	0.41
9:7A:124:ALA:HB2	10:8B:849:ALA:CB	2.51	0.41
11:6B:45:ARG:H	11:6B:207:GLU:HG2	1.86	0.41
11:6B:195:PHE:HD2	11:6B:195:PHE:H	1.69	0.41
11:6A:170:ARG:CZ	11:6F:67:GLU:OE2	2.69	0.41
8:5Y:44:LEU:CD1	11:6F:192:VAL:HG21	2.48	0.41
9:7C:147:HIS:CD2	9:7C:149:ARG:HB2	2.56	0.41
8:52:116:HIS:HB3	8:53:28:ARG:HA	2.01	0.41
10:8B:125:GLU:N	10:8B:205:GLN:HE22	2.19	0.41
11:6D:45:ARG:H	11:6D:207:GLU:HG2	1.86	0.41
11:6C:4:HIS:CD2	11:6C:77:ARG:HD2	2.56	0.41
1:C5:171:GLU:HG2	1:V9:181:ARG:HH21	1.86	0.41
1:Y4:300:SER:OG	1:Y4:302:ALA:O	2.36	0.41
1:N4:167:ILE:HG23	1:N4:370:GLY:HA2	2.03	0.41
1:N4:198:ILE:HG13	1:M4:143:MET:HE3	2.03	0.41
1:O4:338:GLY:O	1:O4:373:SER:N	2.49	0.41
1:P4:322:ASP:OD1	1:P4:322:ASP:N	2.53	0.41
1:U4:223:LEU:O	1:U4:227:LYS:NZ	2.35	0.41
1:U4:269:TYR:CE1	1:V4:114:LEU:HB3	2.56	0.41
1:K4:139:ASP:H	1:L4:112:GLY:HA2	1.86	0.41
1:J4:111:ARG:N	1:I4:137:LEU:O	2.53	0.41
1:V4:186:SER:O	1:V4:188:PHE:N	2.53	0.41
1:H4:145:SER:HB3	1:I4:172:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I4:118:ALA:HA	1:I4:122:GLN:HE22	1.85	0.41
1:I4:186:SER:O	1:I4:188:PHE:N	2.54	0.41
1:B4:92:SER:O	1:B4:99:GLY:HA3	2.20	0.41
1:B4:143:MET:HG2	1:B4:160:PRO:HD3	2.02	0.41
2:A2:21:ILE:H	2:A2:21:ILE:HG13	1.79	0.41
1:CP:148:ALA:HB2	1:CP:154:LEU:HD22	2.01	0.41
1:YO:322:ASP:OD1	1:YO:322:ASP:N	2.49	0.41
1:YO:354:PHE:CD1	1:PO:352:ASP:HB3	2.56	0.41
1:AP:219:PRO:HG3	1:AP:369:GLY:HA2	2.02	0.41
1:BP:130:GLU:O	1:BP:344:ARG:NH1	2.48	0.41
1:NO:198:ILE:HG13	1:MO:143:MET:HE3	2.03	0.41
1:QO:194:LEU:HD22	1:PO:143:MET:HE1	2.03	0.41
1:PO:101:LEU:HB3	1:SO:186:SER:HB2	2.03	0.41
1:WO:227:LYS:HE2	1:WO:227:LYS:HB2	1.88	0.41
1:UO:114:LEU:HG	1:TO:268:GLU:HG2	2.03	0.41
1:UO:147:TRP:CD2	1:VO:172:LEU:HD13	2.56	0.41
1:UO:269:TYR:CE1	1:VO:114:LEU:HB3	2.56	0.41
1:JO:324:ALA:HB3	1:JO:327:ALA:HB2	2.03	0.41
1:VO:277:MET:O	1:VO:317:ALA:N	2.50	0.41
1:HO:198:ILE:HG21	1:HO:364:ALA:HB3	2.03	0.41
1:IO:118:ALA:HA	1:IO:122:GLN:HE22	1.85	0.41
1:IO:354:PHE:CD1	1:FJ:352:ASP:HB3	2.56	0.41
1:EO:90:LEU:HB3	1:EO:91:ASN:H	1.62	0.41
1:GO:189:ASP:OD1	1:GO:189:ASP:N	2.53	0.41
1:BO:92:SER:O	1:BO:99:GLY:HA3	2.20	0.41
2:DN:15:ALA:HB3	2:CN:66:VAL:HA	2.03	0.41
1:CK:106:THR:HG22	1:BK:135:ASP:HB2	2.02	0.41
1:YJ:150:GLU:OE1	1:AK:92:SER:OG	2.36	0.41
1:ZJ:164:ARG:NH1	1:CF:100:TYR:O	2.54	0.41
1:BK:130:GLU:O	1:BK:344:ARG:NH1	2.48	0.41
1:BK:190:ILE:HA	1:BK:190:ILE:HD12	1.78	0.41
1:BK:349:VAL:CG2	5:1J:41:TRP:CZ2	3.03	0.41
1:PJ:101:LEU:HB3	1:SJ:186:SER:HB2	2.03	0.41
1:WJ:183:LEU:HD21	1:WJ:362:PHE:HZ	1.86	0.41
1:TJ:223:LEU:HD21	1:TJ:320:MET:HE3	2.02	0.41
1:KJ:223:LEU:O	1:KJ:227:LYS:NZ	2.32	0.41
1:JJ:110:ILE:HD12	1:ME:101:LEU:HD11	2.03	0.41
1:AJ:181:ARG:NH2	1:BE:171:GLU:HG2	2.35	0.41
1:AJ:382:LYS:HE2	1:AJ:384:ALA:HB2	2.03	0.41
1:BJ:297:TRP:CE2	1:BJ:309:LEU:HD23	2.56	0.41
1:CJ:277:MET:O	1:CJ:317:ALA:N	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EH:45:VAL:HG12	2:EH:55:THR:HG22	2.01	0.41
2:DH:15:ALA:HB3	2:CH:66:VAL:HA	2.03	0.41
1:XE:167:ILE:HD12	1:XE:370:GLY:HA2	2.03	0.41
1:ZE:164:ARG:NH1	1:CA:100:TYR:O	2.54	0.41
1:BF:289:LYS:HB2	1:BF:293:GLY:HA2	2.02	0.41
1:RE:149:SER:OG	1:RE:150:GLU:N	2.53	0.41
1:QE:299:ASP:OD1	1:QE:299:ASP:N	2.54	0.41
1:OE:121:ARG:NH2	1:OE:343:GLU:OE1	2.41	0.41
1:WE:114:LEU:HB3	1:VE:269:TYR:CE1	2.55	0.41
1:UE:147:TRP:CD2	1:VE:172:LEU:HD13	2.56	0.41
1:UE:154:LEU:HD23	1:VE:363:TYR:HE1	1.85	0.41
1:JE:255:SER:O	1:JE:258:VAL:HG12	2.20	0.41
1:VE:186:SER:O	1:VE:188:PHE:N	2.53	0.41
1:AE:227:LYS:HE2	1:AE:227:LYS:HB2	1.89	0.41
1:AE:382:LYS:HE2	1:AE:384:ALA:HB2	2.03	0.41
1:DE:146:GLY:HA3	1:DE:154:LEU:HD21	2.03	0.41
1:FE:263:TYR:OH	1:GE:305:GLU:OE1	2.26	0.41
1:CE:162:ILE:HD13	1:B9:100:TYR:HB2	2.02	0.41
2:DD:21:ILE:H	2:DD:21:ILE:HG13	1.79	0.41
2:AB:14:PRO:HD2	2:A6:11:LEU:HD23	2.03	0.41
1:CA:106:THR:HG22	1:BA:135:ASP:HB2	2.02	0.41
1:Q9:194:LEU:HD22	1:P9:143:MET:HE1	2.03	0.41
1:W9:183:LEU:HD21	1:W9:362:PHE:HZ	1.86	0.41
1:U9:269:TYR:CE1	1:V9:114:LEU:HB3	2.56	0.41
1:S9:186:SER:O	1:S9:188:PHE:N	2.54	0.41
1:L9:343:GLU:HB3	1:L9:368:VAL:HG23	2.03	0.41
1:H9:145:SER:HB3	1:I9:172:LEU:HD11	2.02	0.41
1:D9:140:LYS:HG3	1:D9:141:THR:HG23	2.01	0.41
1:E9:130:GLU:OE1	1:E9:344:ARG:NH2	2.54	0.41
1:F9:171:GLU:HA	1:F9:367:ARG:HA	2.02	0.41
1:G9:156:GLU:HG3	1:B9:175:MET:HE3	2.03	0.41
1:G9:290:ASP:OD1	1:G9:294:ARG:N	2.53	0.41
1:B9:92:SER:O	1:B9:99:GLY:HA3	2.20	0.41
1:C9:140:LYS:HG3	1:C9:235:TRP:CD1	2.56	0.41
1:C9:277:MET:O	1:C9:317:ALA:N	2.48	0.41
2:A6:47:ARG:HE	2:A6:72:LEU:HD11	1.85	0.41
5:1A:26:THR:HG21	5:1L:138:LEU:CD2	2.51	0.41
5:1A:251:HIS:CB	4:2B:193:LEU:HD13	2.51	0.41
5:1A:296:ALA:HB2	5:1L:58:PRO:HB3	2.02	0.41
5:1A:316:ALA:HB1	5:1A:364:VAL:HG11	2.02	0.41
5:1B:264:LEU:HD13	5:1B:269:ASP:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2B:89:LEU:HD13	4:2B:105:TRP:CZ2	2.56	0.41
6:4A:104:LEU:HB3	6:4A:133:VAL:HG12	2.02	0.41
6:4A:116:ARG:HD3	6:4A:120:ALA:HB1	2.02	0.41
8:5A:23:THR:OG1	6:4B:59:THR:HG21	2.21	0.41
8:5S:7:LYS:HE2	8:5N:44:LEU:O	2.20	0.41
8:5S:51:ARG:CZ	8:5X:61:SER:CB	2.99	0.41
8:5M:71:LYS:HG2	8:5N:3:ALA:CA	2.51	0.41
5:1K:268:LEU:HD11	4:2L:190:VAL:HG13	2.03	0.41
5:1K:270:TRP:HD1	5:1L:273:MET:HE2	1.85	0.41
4:2L:89:LEU:HD13	4:2L:105:TRP:CZ2	2.56	0.41
6:4F:97:LEU:HG	6:4F:104:LEU:HD21	2.02	0.41
6:4F:118:GLU:C	6:4F:120:ALA:H	2.29	0.41
8:5X:32:ILE:N	8:5W:112:TYR:O	2.54	0.41
4:2I:91:LEU:CD1	4:2I:132:VAL:HG23	2.36	0.41
5:1J:316:ALA:HB1	5:1J:364:VAL:HG11	2.02	0.41
4:2J:56:LYS:HE2	4:2J:187:TRP:HE3	1.86	0.41
8:5E:57:ALA:HB2	8:5K:5:ASN:CG	2.46	0.41
8:5W:44:LEU:CB	8:50:116:HIS:CB	2.98	0.41
8:5W:44:LEU:CD1	8:50:116:HIS:HA	2.50	0.41
4:2G:166:ARG:HD2	4:2H:22:HIS:CE1	2.56	0.41
5:1G:324:ARG:NH2	5:1F:360:PRO:HB2	2.34	0.41
5:1H:264:LEU:HD13	5:1H:269:ASP:HA	2.02	0.41
5:1H:280:MET:HA	5:1H:283:HIS:HB2	2.03	0.41
6:4D:4:ALA:HA	6:4C:86:ALA:CB	2.49	0.41
8:5D:50:TRP:CH2	8:5C:132:LEU:HD22	2.55	0.41
8:5V:55:GLY:CA	8:5U:88:VAL:HG13	2.49	0.41
4:2E:93:ASP:OD1	4:2E:96:GLY:N	2.50	0.41
5:1F:299:VAL:HG12	5:1F:322:PHE:CE1	2.56	0.41
6:4C:111:ARG:HH11	6:4C:111:ARG:CG	2.34	0.41
8:5O:10:LEU:HD13	8:5O:23:THR:HG21	2.03	0.41
5:1D:320:ARG:HH21	5:1D:365:GLU:HG3	1.86	0.41
4:2D:89:LEU:HD13	4:2D:105:TRP:CZ2	2.56	0.41
8:5H:10:LEU:HD13	8:5H:23:THR:HG21	2.03	0.41
9:7A:145:ILE:HD13	9:7A:145:ILE:HG21	1.81	0.41
9:7A:147:HIS:CD2	9:7A:149:ARG:HB2	2.56	0.41
10:8A:125:GLU:N	10:8A:205:GLN:HE22	2.19	0.41
11:6A:20:PRO:HB3	11:6A:43:SER:HB3	2.02	0.41
11:6A:72:GLN:HA	11:6A:183:PHE:CZ	2.55	0.41
10:8C:953:TYR:HB3	10:8C:968:ALA:HB1	2.02	0.41
11:6F:163:GLU:HG2	11:6E:69:ARG:NH1	2.28	0.41
11:6F:195:PHE:HD2	11:6F:195:PHE:H	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:52:100:ILE:H	8:52:135:THR:HG22	1.86	0.41
9:7B:33:GLY:HA3	9:7B:48:PHE:HA	2.02	0.41
9:7B:68:ASP:H	9:7B:133:GLY:HA3	1.84	0.41
9:7B:145:ILE:HG21	9:7B:145:ILE:HD13	1.81	0.41
10:8B:79:MET:HE1	10:8B:870:VAL:HG11	2.02	0.41
10:8B:751:TYR:OH	10:8B:758:SER:O	2.34	0.41
1:X4:162:ILE:HD13	1:Q4:100:TYR:HB2	2.03	0.41
1:Y4:227:LYS:HB2	1:Y4:227:LYS:HE2	1.85	0.41
1:A5:125:SER:C	5:1B:38:ARG:HH12	2.28	0.41
1:W4:183:LEU:HD21	1:W4:362:PHE:HZ	1.86	0.41
1:G4:259:VAL:HG22	1:G4:310:MET:HE1	2.03	0.41
1:B4:179:SER:O	1:B4:183:LEU:HB2	2.21	0.41
2:A1:2:ASP:OD1	2:A1:2:ASP:N	2.51	0.41
2:A1:67:ARG:NH2	2:A6:4:PHE:HB2	2.35	0.41
2:D2:15:ALA:HB3	2:C2:66:VAL:HA	2.03	0.41
1:BP:347:LEU:HD22	5:1L:162:GLY:HA3	1.90	0.41
1:MO:297:TRP:CE2	1:MO:309:LEU:HD23	2.56	0.41
1:UO:164:ARG:NH1	1:XJ:100:TYR:O	2.54	0.41
1:GO:211:ILE:HD12	1:GO:319:ASP:HB2	2.03	0.41
1:GO:352:ASP:OD1	1:GO:352:ASP:N	2.54	0.41
1:MJ:297:TRP:CE2	1:MJ:309:LEU:HD23	2.56	0.41
1:OJ:352:ASP:N	1:OJ:352:ASP:OD1	2.54	0.41
2:DI:15:ALA:HB3	2:CI:66:VAL:HA	2.03	0.41
2:BH:38:VAL:HG21	2:BH:58:VAL:HG21	2.02	0.41
2:BH:47:ARG:HE	2:BH:72:LEU:HD11	1.85	0.41
1:XE:193:TRP:HE1	1:XE:197:ARG:HH11	1.69	0.41
1:OE:263:TYR:OH	1:PE:286:ARG:NH2	2.47	0.41
1:WE:182:LEU:O	1:WE:186:SER:HB3	2.21	0.41
1:UE:269:TYR:CE1	1:VE:114:LEU:HB3	2.56	0.41
1:JE:381:LEU:HD12	1:JE:381:LEU:HA	1.94	0.41
1:IE:285:VAL:HG11	1:IE:309:LEU:HD11	2.02	0.41
1:BE:297:TRP:CE2	1:BE:309:LEU:HD23	2.56	0.41
1:CE:140:LYS:HG3	1:CE:235:TRP:CD1	2.56	0.41
2:CC:38:VAL:HG21	2:CC:58:VAL:HG21	2.02	0.41
1:CA:227:LYS:HE2	1:CA:227:LYS:HB2	1.86	0.41
1:Y9:354:PHE:CD1	1:P9:352:ASP:HB3	2.56	0.41
1:Z9:227:LYS:HB2	1:Z9:227:LYS:HE2	1.91	0.41
1:AA:130:GLU:OE2	5:1D:44:ARG:C	2.64	0.41
1:BA:262:VAL:HG21	1:BA:310:MET:HG2	2.03	0.41
1:BA:344:ARG:HE	1:BA:367:ARG:HD3	1.86	0.41
1:N9:176:PRO:O	1:N9:361:LEU:HA	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W9:114:LEU:HB3	1:V9:269:TYR:HE1	1.85	0.41
1:W9:182:LEU:O	1:W9:186:SER:HB3	2.21	0.41
1:W9:268:GLU:HG2	1:S9:114:LEU:HG	2.03	0.41
1:U9:182:LEU:O	1:U9:186:SER:OG	2.33	0.41
1:F9:343:GLU:HB3	1:F9:368:VAL:HG23	2.03	0.41
1:B9:90:LEU:HD22	1:B9:91:ASN:N	2.36	0.41
2:E8:38:VAL:HG21	2:E8:58:VAL:HG21	2.02	0.41
8:5M:10:LEU:HD13	8:5M:23:THR:HG21	2.03	0.41
8:5X:100:ILE:H	8:5X:135:THR:HG22	1.86	0.41
8:5X:133:SER:OG	8:5X:134:PHE:N	2.53	0.41
5:1J:264:LEU:HD13	5:1J:269:ASP:HA	2.02	0.41
6:4E:97:LEU:HG	6:4E:104:LEU:HD21	2.02	0.41
8:5E:33:SER:HA	8:5D:111:ASP:HA	2.02	0.41
8:5K:44:LEU:CG	8:5P:7:LYS:HA	2.50	0.41
8:5Q:134:PHE:CZ	8:5P:80:ARG:NE	2.88	0.41
8:5D:27:LEU:HD11	8:5D:30:THR:CB	2.51	0.41
8:5J:10:LEU:HD13	8:5J:23:THR:HG21	2.03	0.41
4:2F:93:ASP:HA	4:2F:127:PRO:HG3	2.03	0.41
8:5U:32:ILE:O	8:5T:112:TYR:N	2.54	0.41
8:5U:34:PHE:O	8:5T:109:SER:CB	2.69	0.41
5:1C:38:ARG:HA	5:1C:39:PRO:HD3	1.94	0.41
5:1D:299:VAL:HG12	5:1D:322:PHE:CE1	2.56	0.41
8:5H:51:ARG:HH21	8:5H:51:ARG:HD3	1.77	0.41
8:5H:100:ILE:H	8:5H:135:THR:HG22	1.86	0.41
10:8A:115:LEU:HD23	10:8A:115:LEU:HA	1.92	0.41
10:8A:867:LEU:HD23	10:8A:867:LEU:HA	1.90	0.41
11:6A:4:HIS:CD2	11:6A:77:ARG:HD2	2.56	0.41
8:5Y:10:LEU:HD13	8:5Y:23:THR:HG21	2.03	0.41
8:5Y:100:ILE:H	8:5Y:135:THR:HG22	1.86	0.41
11:6D:200:LEU:HA	11:6D:201:PRO:HD3	1.84	0.41
11:6C:160:SER:HA	11:6C:169:ALA:H	1.85	0.41
11:6C:200:LEU:HA	11:6C:201:PRO:HD3	1.84	0.41
8:50:10:LEU:HD13	8:50:23:THR:HG21	2.03	0.41
1:C5:106:THR:HG22	1:B5:135:ASP:HB2	2.02	0.40
1:Y4:92:SER:OG	1:Y4:93:ALA:N	2.49	0.40
1:R4:149:SER:OG	1:R4:150:GLU:N	2.53	0.40
1:T4:112:GLY:HA2	1:S4:139:ASP:H	1.86	0.40
1:T4:162:ILE:HD12	1:RO:98:GLY:HA2	2.03	0.40
1:T4:330:ILE:HD12	1:T4:381:LEU:HD23	2.02	0.40
1:K4:268:GLU:HG2	1:L4:114:LEU:HG	2.02	0.40
1:L4:277:MET:HG2	1:L4:330:ILE:HG12	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:242:ALA:HA	1:A4:382:LYS:O	2.21	0.40
1:D4:146:GLY:HA3	1:D4:154:LEU:HD21	2.03	0.40
1:D4:344:ARG:HE	1:D4:367:ARG:HD3	1.85	0.40
1:F4:352:ASP:HB3	1:I9:354:PHE:CD1	2.56	0.40
1:G4:256:ASP:HB2	1:B4:287:LYS:HE3	2.03	0.40
1:B4:297:TRP:CE2	1:B4:309:LEU:HD23	2.56	0.40
1:ZO:152:ALA:CB	4:2I:103:ALA:CB	2.88	0.40
1:NO:92:SER:HB3	1:FO:182:LEU:HB2	2.02	0.40
1:QO:307:ALA:O	1:QO:308:ARG:NE	2.46	0.40
1:QO:358:PRO:HG2	1:QO:359:HIS:CD2	2.57	0.40
1:OO:281:THR:HG23	1:OO:323:ILE:HD11	2.02	0.40
1:JO:186:SER:O	1:JO:188:PHE:N	2.54	0.40
1:VO:159:THR:HG22	1:VO:160:PRO:HD2	2.03	0.40
1:IO:176:PRO:HG3	1:IO:198:ILE:HD11	2.03	0.40
1:IO:227:LYS:HE2	1:IO:227:LYS:HB2	1.86	0.40
2:EM:18:HIS:CD2	2:DM:54:VAL:HG22	2.57	0.40
1:TJ:330:ILE:HD12	1:TJ:381:LEU:HD23	2.02	0.40
1:SJ:257:ALA:HB1	1:SJ:381:LEU:HD11	2.03	0.40
1:HJ:198:ILE:HG21	1:HJ:364:ALA:HB3	2.03	0.40
1:IJ:186:SER:O	1:IJ:188:PHE:N	2.54	0.40
1:IJ:354:PHE:CD1	1:FE:352:ASP:HB3	2.56	0.40
1:DJ:344:ARG:HE	1:DJ:367:ARG:HD3	1.85	0.40
1:BJ:179:SER:O	1:BJ:183:LEU:HB2	2.21	0.40
1:BF:227:LYS:HE2	1:BF:227:LYS:HB2	1.92	0.40
1:LE:277:MET:HG2	1:LE:330:ILE:HG12	2.04	0.40
1:DE:209:ALA:HB1	1:DE:219:PRO:HD2	2.03	0.40
2:DC:38:VAL:HG21	2:DC:58:VAL:HG21	2.02	0.40
1:Y9:183:LEU:HD13	1:Y9:360:VAL:HG21	2.04	0.40
1:Q9:358:PRO:HG2	1:Q9:359:HIS:CD2	2.57	0.40
1:T9:167:ILE:HG21	1:T9:342:ALA:HB3	2.03	0.40
1:K9:322:ASP:N	1:K9:322:ASP:OD1	2.53	0.40
1:L9:324:ALA:HB3	1:L9:327:ALA:HB2	2.03	0.40
1:D9:146:GLY:HA3	1:D9:154:LEU:HD21	2.03	0.40
1:E9:139:ASP:N	1:E9:139:ASP:OD1	2.52	0.40
8:5G:133:SER:OG	8:5G:134:PHE:N	2.53	0.40
5:1K:44:ARG:HH12	5:1K:45:ASP:HB3	1.87	0.40
5:1K:223:GLY:HA3	5:1K:270:TRP:CZ2	2.56	0.40
5:1L:316:ALA:HB1	5:1L:364:VAL:HG11	2.02	0.40
4:2L:81:ALA:HB1	4:2L:111:MET:O	2.21	0.40
5:1I:40:VAL:O	5:1I:189:TYR:OH	2.36	0.40
5:1I:135:LEU:HD23	5:1I:135:LEU:HA	1.93	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1I:223:GLY:HA3	5:1I:270:TRP:CZ2	2.56	0.40
6:4E:118:GLU:C	6:4E:120:ALA:H	2.29	0.40
8:5W:100:ILE:H	8:5W:135:THR:HG22	1.86	0.40
8:5Q:100:ILE:H	8:5Q:135:THR:HG22	1.86	0.40
5:1H:320:ARG:HH21	5:1H:365:GLU:HG3	1.86	0.40
7:3D:81:ARG:NH2	7:3D:83:GLY:O	2.47	0.40
8:5D:91:PHE:CD2	8:5D:105:PHE:HB2	2.56	0.40
8:5O:50:TRP:CD2	8:5N:60:ARG:HG3	2.56	0.40
8:5O:51:ARG:HB2	8:5N:59:VAL:HG22	2.02	0.40
5:1C:116:LEU:O	5:1C:192:SER:OG	2.37	0.40
4:2D:93:ASP:HA	4:2D:127:PRO:HG3	2.04	0.40
7:3B:57:VAL:HA	7:3B:58:PRO:HD3	1.81	0.40
8:5B:95:ILE:CB	8:5B:98:PHE:HB2	2.40	0.40
8:5T:133:SER:OG	8:5T:134:PHE:N	2.53	0.40
10:8A:79:MET:HE1	10:8A:870:VAL:HG11	2.02	0.40
11:6B:194:SER:OG	8:5Z:57:ALA:HB1	2.21	0.40
11:6E:186:ASP:N	11:6E:186:ASP:OD1	2.53	0.40
8:52:59:VAL:HG23	8:53:49:GLY:O	2.21	0.40
8:53:133:SER:OG	8:53:134:PHE:N	2.53	0.40
11:6C:72:GLN:HA	11:6C:183:PHE:CZ	2.55	0.40
8:50:133:SER:OG	8:50:134:PHE:N	2.53	0.40
1:Y4:354:PHE:CD1	1:P4:352:ASP:HB3	2.56	0.40
1:Z4:299:ASP:OD1	1:Z4:299:ASP:N	2.52	0.40
1:B5:277:MET:HG2	1:B5:330:ILE:HG12	2.03	0.40
1:B5:344:ARG:HE	1:B5:367:ARG:HD3	1.85	0.40
1:B5:351:ARG:NH2	5:1C:41:TRP:HB2	2.37	0.40
1:W4:182:LEU:O	1:W4:186:SER:HB3	2.21	0.40
1:U4:114:LEU:HB3	1:T4:269:TYR:HE1	1.87	0.40
1:J4:110:ILE:HD12	1:MO:101:LEU:HD11	2.03	0.40
1:J4:111:ARG:HB2	1:I4:138:VAL:HG12	2.04	0.40
1:J4:324:ALA:HB3	1:J4:327:ALA:HB2	2.03	0.40
1:H4:198:ILE:HG21	1:H4:364:ALA:HB3	2.03	0.40
1:F4:343:GLU:HB3	1:F4:368:VAL:HG23	2.03	0.40
2:E3:18:HIS:CD2	2:D3:54:VAL:HG22	2.57	0.40
2:D3:15:ALA:HB3	2:C3:66:VAL:HA	2.03	0.40
1:BP:344:ARG:HE	1:BP:367:ARG:HD3	1.85	0.40
1:UO:189:ASP:HB3	1:UO:192:THR:HG22	2.02	0.40
1:LO:343:GLU:HB3	1:LO:368:VAL:HG23	2.03	0.40
1:EO:344:ARG:HA	1:EO:345:PRO:HD3	1.93	0.40
2:DN:39:GLN:HE22	2:CN:56:TYR:HA	1.87	0.40
2:BM:38:VAL:HG21	2:BM:58:VAL:HG21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZJ:299:ASP:OD1	1:ZJ:299:ASP:N	2.52	0.40
1:WJ:182:LEU:O	1:WJ:186:SER:HB3	2.21	0.40
1:WJ:322:ASP:OD1	1:WJ:322:ASP:N	2.54	0.40
1:UJ:114:LEU:HG	1:TJ:268:GLU:HG2	2.03	0.40
1:KJ:305:GLU:CB	1:KJ:306:PRO:CD	2.92	0.40
1:HJ:171:GLU:HG2	1:GE:181:ARG:HH21	1.86	0.40
1:AJ:137:LEU:HD23	1:AJ:137:LEU:HA	1.90	0.40
1:DJ:209:ALA:HB1	1:DJ:219:PRO:HD2	2.03	0.40
1:DJ:330:ILE:HD12	1:DJ:381:LEU:HD23	2.03	0.40
1:EJ:130:GLU:OE1	1:EJ:344:ARG:NH2	2.54	0.40
1:GJ:211:ILE:HD12	1:GJ:319:ASP:HB2	2.03	0.40
1:CF:149:SER:OG	1:CF:150:GLU:N	2.55	0.40
1:YE:183:LEU:HD13	1:YE:360:VAL:HG21	2.03	0.40
1:ZE:322:ASP:N	1:ZE:322:ASP:OD1	2.53	0.40
1:AF:143:MET:SD	1:AF:143:MET:N	2.93	0.40
1:BF:175:MET:HE2	1:BF:361:LEU:CD2	2.51	0.40
1:BF:175:MET:HG2	1:BF:361:LEU:HD11	2.02	0.40
1:QE:209:ALA:HB2	1:PE:147:TRP:CZ2	2.57	0.40
1:UE:114:LEU:HB3	1:TE:269:TYR:HE1	1.87	0.40
1:TE:167:ILE:HG21	1:TE:342:ALA:HB3	2.03	0.40
1:SE:171:GLU:HG2	1:KE:181:ARG:HH21	1.85	0.40
1:SE:227:LYS:HB2	1:SE:227:LYS:HE2	1.87	0.40
1:KE:150:GLU:HG2	1:HE:91:ASN:HB2	2.04	0.40
1:AE:242:ALA:HA	1:AE:382:LYS:O	2.21	0.40
1:GE:277:MET:O	1:GE:317:ALA:N	2.45	0.40
1:X9:193:TRP:HE1	1:X9:197:ARG:HH11	1.69	0.40
1:BA:214:ASP:OD1	1:BA:218:LYS:NZ	2.45	0.40
1:O9:281:THR:HG23	1:O9:323:ILE:HD11	2.02	0.40
1:W9:134:PHE:HA	1:S9:105:GLN:O	2.22	0.40
1:U9:114:LEU:HB3	1:T9:269:TYR:HE1	1.87	0.40
1:K9:150:GLU:HG2	1:H9:91:ASN:HB2	2.04	0.40
1:D9:90:LEU:HD13	1:D9:91:ASN:N	2.36	0.40
1:F9:154:LEU:HD23	1:G9:363:TYR:HE1	1.87	0.40
1:G9:263:TYR:OH	1:B9:286:ARG:NH1	2.53	0.40
2:E8:18:HIS:CD2	2:D8:54:VAL:HG22	2.57	0.40
2:B7:2:ASP:OD1	2:B7:2:ASP:N	2.51	0.40
8:5A:44:LEU:HG	8:5L:10:LEU:CD2	2.51	0.40
8:5G:100:ILE:H	8:5G:135:THR:HG22	1.86	0.40
8:5M:129:ALA:HA	8:5N:53:LEU:HB2	2.02	0.40
5:1L:177:CYS:HB2	5:1L:341:TRP:CG	2.57	0.40
5:1L:264:LEU:HD13	5:1L:269:ASP:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4F:116:ARG:HD3	6:4F:120:ALA:HB1	2.02	0.40
8:5X:51:ARG:NH1	8:5W:61:SER:CB	2.78	0.40
5:1I:191:LEU:HD23	5:1H:61:PHE:HE1	1.85	0.40
8:5E:91:PHE:CD2	8:5E:105:PHE:HB2	2.56	0.40
8:5K:108:THR:H	8:5K:108:THR:HG23	1.65	0.40
4:2G:93:ASP:OD1	4:2G:96:GLY:N	2.50	0.40
6:4D:82:LYS:O	6:4D:86:ALA:N	2.46	0.40
6:4D:116:ARG:HD3	6:4D:120:ALA:HB1	2.02	0.40
8:5P:134:PHE:CD2	8:5O:80:ARG:CZ	3.05	0.40
5:1E:240:GLN:NE2	4:2F:188:ARG:O	2.54	0.40
5:1E:338:LEU:HD23	5:1E:338:LEU:HA	1.91	0.40
5:1F:138:LEU:HD23	5:1F:138:LEU:HA	1.90	0.40
6:4B:97:LEU:HG	6:4B:104:LEU:HD21	2.02	0.40
8:5B:27:LEU:HD11	8:5B:30:THR:CB	2.51	0.40
11:6B:188:ILE:HG13	11:6C:19:GLY:HA3	2.03	0.40
8:5Y:59:VAL:HG23	8:5Z:49:GLY:O	2.21	0.40
11:6E:4:HIS:CD2	11:6E:77:ARG:HD2	2.56	0.40
9:7B:263:ASN:HD21	9:7B:266:ASN:HD22	1.68	0.40
11:6D:160:SER:HA	11:6D:169:ALA:H	1.85	0.40
8:50:59:VAL:HG23	8:51:49:GLY:O	2.21	0.40
1:C5:90:LEU:HA	1:AA:177:LYS:O	2.20	0.40
1:C5:149:SER:OG	1:C5:150:GLU:N	2.55	0.40
1:X4:167:ILE:HD12	1:X4:370:GLY:HA2	2.02	0.40
1:A5:141:THR:CG2	1:A5:142:ASP:H	2.35	0.40
1:U4:186:SER:O	1:U4:188:PHE:N	2.55	0.40
1:K4:150:GLU:HG2	1:H4:91:ASN:HB2	2.04	0.40
1:V4:227:LYS:HE2	1:V4:227:LYS:HB2	1.89	0.40
1:L4:227:LYS:HE2	1:L4:227:LYS:HB2	1.87	0.40
1:I4:176:PRO:HG3	1:I4:198:ILE:HD11	2.03	0.40
1:I4:182:LEU:O	1:I4:186:SER:OG	2.27	0.40
1:C4:352:ASP:OD2	1:C4:355:SER:OG	2.33	0.40
1:CP:281:THR:HG23	1:CP:323:ILE:HD11	2.03	0.40
1:ZO:141:THR:HG22	1:ZO:161:GLN:HG2	2.03	0.40
1:BP:175:MET:HE2	1:BP:361:LEU:CD2	2.51	0.40
1:NO:167:ILE:HG23	1:NO:370:GLY:HA2	2.03	0.40
1:NO:176:PRO:O	1:NO:361:LEU:HA	2.21	0.40
1:RO:114:LEU:HB2	1:QO:269:TYR:CZ	2.57	0.40
1:RO:149:SER:OG	1:RO:150:GLU:N	2.53	0.40
1:MO:90:LEU:HB3	1:MO:91:ASN:H	1.75	0.40
1:WO:114:LEU:HB3	1:VO:269:TYR:HE1	1.85	0.40
1:TO:112:GLY:HA2	1:SO:139:ASP:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TO:223:LEU:HD21	1:TO:320:MET:HE3	2.03	0.40
1:LO:324:ALA:HB3	1:LO:327:ALA:HB2	2.03	0.40
1:BO:90:LEU:HD22	1:BO:91:ASN:N	2.36	0.40
1:CO:140:LYS:HG3	1:CO:235:TRP:CD1	2.56	0.40
2:AL:4:PHE:HB2	2:AG:67:ARG:NH2	2.35	0.40
2:DM:2:ASP:OD1	2:DM:2:ASP:N	2.51	0.40
1:CK:149:SER:OG	1:CK:150:GLU:N	2.55	0.40
1:CK:167:ILE:HG23	1:CK:370:GLY:HA2	2.04	0.40
1:XJ:230:ASN:HD22	1:XJ:264:ALA:HB1	1.86	0.40
1:BK:343:GLU:HB3	1:BK:368:VAL:HG23	2.02	0.40
1:MJ:147:TRP:HE3	1:MJ:147:TRP:H	1.68	0.40
1:QJ:194:LEU:HD22	1:PJ:143:MET:HE1	2.03	0.40
1:OJ:227:LYS:HB2	1:OJ:227:LYS:HE2	1.77	0.40
1:KJ:268:GLU:HG2	1:LJ:114:LEU:HG	2.02	0.40
1:LJ:257:ALA:HB1	1:LJ:381:LEU:HD11	2.04	0.40
1:IJ:118:ALA:HA	1:IJ:122:GLN:HE22	1.85	0.40
1:FJ:101:LEU:HD12	1:FJ:101:LEU:H	1.82	0.40
1:BJ:90:LEU:HD22	1:BJ:91:ASN:N	2.36	0.40
1:ZE:290:ASP:N	1:ZE:290:ASP:OD1	2.45	0.40
1:BF:349:VAL:CG2	5:1H:34:SER:O	2.69	0.40
1:PE:101:LEU:HB3	1:SE:186:SER:HB2	2.03	0.40
1:WE:114:LEU:HB3	1:VE:269:TYR:HE1	1.86	0.40
1:SE:122:GLN:HG2	1:SE:123:ILE:HG23	2.02	0.40
1:JE:324:ALA:HB3	1:JE:327:ALA:HB2	2.03	0.40
1:VE:159:THR:HG22	1:VE:160:PRO:HD2	2.03	0.40
1:HE:145:SER:HB3	1:IE:172:LEU:HD11	2.02	0.40
1:EE:344:ARG:HA	1:EE:345:PRO:HD3	1.93	0.40
1:FE:338:GLY:O	1:FE:373:SER:N	2.49	0.40
2:AB:70:ARG:HH11	2:AB:70:ARG:HD3	1.79	0.40
1:CA:281:THR:HG23	1:CA:323:ILE:HD11	2.03	0.40
1:Y9:324:ALA:HB3	1:Y9:327:ALA:HB2	2.04	0.40
1:Z9:162:ILE:H	1:Z9:162:ILE:HG13	1.71	0.40
1:BA:290:ASP:OD1	1:BA:294:ARG:N	2.49	0.40
1:Q9:209:ALA:HB2	1:P9:147:TRP:CZ2	2.57	0.40
1:Q9:343:GLU:HB3	1:Q9:368:VAL:HG23	2.04	0.40
1:U9:114:LEU:HG	1:T9:268:GLU:HG2	2.03	0.40
1:S9:136:VAL:HG23	1:S9:165:ILE:HB	2.04	0.40
1:K9:139:ASP:H	1:L9:112:GLY:HA2	1.86	0.40
1:A9:242:ALA:HA	1:A9:382:LYS:O	2.21	0.40
1:C9:261:LEU:HD13	1:C9:381:LEU:HB2	2.03	0.40
5:1A:268:LEU:HD11	4:2B:190:VAL:HG13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2B:76:GLN:O	4:2B:116:ILE:HG22	2.22	0.40
8:5M:100:ILE:H	8:5M:135:THR:HG22	1.86	0.40
8:5M:133:SER:OG	8:5M:134:PHE:N	2.53	0.40
5:1L:320:ARG:HH21	5:1L:365:GLU:HG3	1.86	0.40
6:4F:111:ARG:HH11	6:4F:111:ARG:CG	2.34	0.40
8:5F:57:ALA:HB2	8:5L:5:ASN:CG	2.46	0.40
8:5L:44:LEU:CG	8:5Q:7:LYS:HA	2.51	0.40
5:1J:320:ARG:HH21	5:1J:365:GLU:HG3	1.86	0.40
6:4E:116:ARG:HD3	6:4E:120:ALA:HB1	2.02	0.40
4:2G:191:ARG:NH1	5:1F:265:GLU:OE2	2.53	0.40
5:1H:177:CYS:HB2	5:1H:341:TRP:CD2	2.56	0.40
5:1H:299:VAL:HG12	5:1H:322:PHE:CE1	2.56	0.40
8:5D:91:PHE:HB2	8:5D:105:PHE:CD2	2.57	0.40
8:5V:50:TRP:HA	8:5U:60:ARG:CG	2.51	0.40
5:1E:182:PHE:CE1	5:1D:109:ALA:HA	2.55	0.40
5:1E:223:GLY:HA3	5:1E:270:TRP:CZ2	2.56	0.40
5:1F:177:CYS:HB2	5:1F:341:TRP:CG	2.57	0.40
4:2F:81:ALA:HB1	4:2F:111:MET:O	2.21	0.40
7:3C:52:VAL:HG11	7:3C:111:VAL:HG23	2.00	0.40
8:5C:27:LEU:HD11	8:5C:30:THR:CB	2.51	0.40
8:5C:91:PHE:HB2	8:5C:105:PHE:CD2	2.57	0.40
8:5U:32:ILE:O	8:5T:111:ASP:HB2	2.21	0.40
8:5I:100:ILE:H	8:5I:135:THR:HG22	1.86	0.40
4:2C:166:ARG:HD2	4:2D:22:HIS:CE1	2.56	0.40
8:5B:91:PHE:HB2	8:5B:105:PHE:CD2	2.57	0.40
9:7A:72:SER:O	9:7A:72:SER:OG	2.35	0.40
10:8A:866:ARG:NH1	9:7C:145:ILE:HD11	2.36	0.40
11:6B:47:TYR:O	11:6B:205:VAL:N	2.40	0.40
11:6B:160:SER:HA	11:6B:169:ALA:H	1.85	0.40
11:6F:194:SER:OG	8:53:57:ALA:HB1	2.21	0.40
11:6E:160:SER:HA	11:6E:169:ALA:H	1.85	0.40
8:53:100:ILE:H	8:53:135:THR:HG22	1.86	0.40
1:Z4:141:THR:HG22	1:Z4:161:GLN:HG2	2.03	0.40
1:N4:309:LEU:HD22	1:N4:309:LEU:HA	1.96	0.40
1:M4:90:LEU:HB3	1:M4:91:ASN:H	1.75	0.40
1:W4:268:GLU:HG2	1:S4:114:LEU:HG	2.03	0.40
1:T4:223:LEU:HD21	1:T4:320:MET:HE3	2.02	0.40
1:S4:122:GLN:HG2	1:S4:123:ILE:HG23	2.02	0.40
1:S4:171:GLU:HG2	1:K4:181:ARG:HH21	1.85	0.40
1:S4:186:SER:O	1:S4:188:PHE:N	2.54	0.40
1:J4:186:SER:O	1:J4:188:PHE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L4:257:ALA:HB1	1:L4:381:LEU:HD11	2.04	0.40
1:H4:171:GLU:HG2	1:GO:181:ARG:HH21	1.86	0.40
1:I4:354:PHE:CD1	1:FO:352:ASP:HB3	2.57	0.40
1:D4:90:LEU:HD13	1:D4:91:ASN:N	2.36	0.40
1:E4:130:GLU:OE1	1:E4:344:ARG:NH2	2.54	0.40
1:G4:150:GLU:HG3	1:C4:91:ASN:CB	2.45	0.40
2:B2:21:ILE:H	2:B2:21:ILE:HG13	1.79	0.40
1:XO:289:LYS:HD3	1:XO:293:GLY:HA2	2.03	0.40
1:YO:150:GLU:HB2	1:CK:181:ARG:NH2	2.34	0.40
1:QO:338:GLY:HA2	1:QO:374:ASP:HB3	2.03	0.40
1:UO:114:LEU:HB3	1:TO:269:TYR:HE1	1.87	0.40
1:KO:139:ASP:H	1:LO:112:GLY:HA2	1.86	0.40
1:JO:111:ARG:HB2	1:IO:138:VAL:HG12	2.03	0.40
1:IO:186:SER:O	1:IO:188:PHE:N	2.54	0.40
1:FO:154:LEU:HD23	1:GO:363:TYR:HE1	1.87	0.40
1:FO:256:ASP:HB2	1:GO:287:LYS:HE2	2.04	0.40
1:BK:344:ARG:HE	1:BK:367:ARG:HD3	1.86	0.40
1:NJ:198:ILE:HG13	1:MJ:143:MET:HE3	2.03	0.40
1:PJ:289:LYS:HD3	1:PJ:293:GLY:HA2	2.03	0.40
1:EJ:268:GLU:HG3	1:FJ:114:LEU:HD23	2.03	0.40
1:FJ:154:LEU:HD23	1:GJ:363:TYR:HE1	1.87	0.40
1:GJ:156:GLU:HG3	1:BJ:175:MET:HE3	2.03	0.40
1:CJ:90:LEU:HB3	1:CJ:91:ASN:H	1.63	0.40
1:CJ:140:LYS:HG3	1:CJ:235:TRP:CD1	2.56	0.40
1:CF:281:THR:HG23	1:CF:323:ILE:HD11	2.03	0.40
1:XE:344:ARG:HA	1:XE:345:PRO:HD3	1.90	0.40
1:BF:141:THR:OG1	1:BF:142:ASP:N	2.54	0.40
1:NE:100:TYR:O	1:EE:164:ARG:NH1	2.53	0.40
1:NE:176:PRO:O	1:NE:361:LEU:HA	2.21	0.40
1:ME:164:ARG:NH1	1:FE:103:ASP:OD2	2.55	0.40
1:QE:194:LEU:HD22	1:PE:143:MET:HE1	2.03	0.40
1:OE:94:VAL:HG23	1:OE:97:GLU:HB2	2.03	0.40
1:PE:139:ASP:OD1	1:PE:139:ASP:N	2.55	0.40
1:UE:186:SER:O	1:UE:188:PHE:N	2.55	0.40
1:UE:277:MET:HG2	1:UE:330:ILE:HG12	2.02	0.40
1:JE:111:ARG:HB2	1:IE:138:VAL:HG12	2.03	0.40
1:LE:324:ALA:HB3	1:LE:327:ALA:HB2	2.03	0.40
1:IE:186:SER:O	1:IE:188:PHE:N	2.54	0.40
1:EE:162:ILE:H	1:EE:162:ILE:HG13	1.56	0.40
1:BA:175:MET:HE2	1:BA:361:LEU:CD2	2.51	0.40
1:R9:90:LEU:HB3	1:R9:91:ASN:H	1.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M9:164:ARG:NH1	1:F9:103:ASP:OD2	2.55	0.40
1:U9:186:SER:O	1:U9:188:PHE:N	2.55	0.40
1:I9:285:VAL:HA	1:I9:288:MET:HE2	2.04	0.40
1:I9:285:VAL:HG11	1:I9:309:LEU:HD11	2.02	0.40
1:D9:285:VAL:HG13	1:D9:288:MET:HE2	2.01	0.40
1:G9:322:ASP:OD1	1:G9:322:ASP:N	2.50	0.40
5:1A:44:ARG:HH12	5:1A:45:ASP:HB3	1.87	0.40
8:5A:41:VAL:HG13	8:5L:69:VAL:HG11	2.03	0.40
8:5F:28:ARG:HA	8:5E:116:HIS:HB3	2.03	0.40
8:5R:44:LEU:CA	8:5V:116:HIS:HA	2.51	0.40
8:5R:62:ALA:HB3	8:5R:128:SER:HB3	2.03	0.40
5:1I:316:ALA:HB1	5:1I:364:VAL:HG11	2.02	0.40
8:5Q:10:LEU:HD13	8:5Q:23:THR:HG21	2.03	0.40
5:1H:123:GLU:HB2	5:1H:138:LEU:HD11	2.04	0.40
8:5P:4:GLN:HG3	8:5O:70:PHE:CD2	2.57	0.40
5:1F:123:GLU:HB2	5:1F:138:LEU:HD11	2.04	0.40
6:4C:57:ASP:OD2	8:5B:71:LYS:NZ	2.27	0.40
8:5O:51:ARG:HH21	8:5O:51:ARG:HD3	1.77	0.40
8:5O:133:SER:OG	8:5O:134:PHE:N	2.53	0.40
5:1C:223:GLY:HA3	5:1C:270:TRP:CZ2	2.56	0.40
5:1D:177:CYS:HB2	5:1D:341:TRP:CG	2.57	0.40
8:5T:100:ILE:H	8:5T:135:THR:HG22	1.86	0.40
11:6B:22:ARG:NE	11:6B:43:SER:OG	2.42	0.40
9:7C:98:VAL:HG23	9:7C:112:ILE:HB	2.03	0.40
9:7C:191:PHE:HB2	9:7C:226:ARG:HH22	1.85	0.40
10:8C:75:LEU:O	10:8C:202:ARG:HD2	2.21	0.40
11:6D:22:ARG:NE	11:6D:43:SER:OG	2.41	0.40
11:6D:195:PHE:HD2	11:6D:195:PHE:H	1.69	0.40
11:6C:20:PRO:HB3	11:6C:43:SER:HB3	2.02	0.40
1:C5:167:ILE:HG23	1:C5:370:GLY:HA2	2.04	0.40
1:M4:101:LEU:HD11	1:J9:110:ILE:HD12	2.03	0.40
1:P4:139:ASP:OD1	1:P4:139:ASP:N	2.55	0.40
1:S4:136:VAL:HG23	1:S4:165:ILE:HB	2.04	0.40
1:K4:242:ALA:HA	1:K4:382:LYS:O	2.22	0.40
1:B4:100:TYR:HB2	1:C9:162:ILE:HD13	2.03	0.40
1:B4:285:VAL:HG13	1:B4:288:MET:HE2	2.04	0.40
2:A1:11:LEU:HD23	2:A6:14:PRO:HD2	2.02	0.40
1:CP:167:ILE:HG23	1:CP:370:GLY:HA2	2.04	0.40
1:BP:262:VAL:HG21	1:BP:310:MET:HG2	2.03	0.40
1:BP:277:MET:HG2	1:BP:330:ILE:HG12	2.03	0.40
1:BP:343:GLU:HB3	1:BP:368:VAL:HG23	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MO:134:PHE:HB3	1:MO:167:ILE:HB	2.04	0.40
1:MO:167:ILE:HD12	1:MO:370:GLY:HA2	2.03	0.40
1:QO:209:ALA:HB2	1:PO:147:TRP:CZ2	2.57	0.40
1:WO:182:LEU:O	1:WO:186:SER:OG	2.29	0.40
1:WO:285:VAL:HA	1:WO:288:MET:HE2	2.03	0.40
1:WO:322:ASP:OD1	1:WO:322:ASP:N	2.54	0.40
1:SO:136:VAL:HG23	1:SO:165:ILE:HB	2.04	0.40
1:KO:242:ALA:HA	1:KO:382:LYS:O	2.22	0.40
1:KO:268:GLU:HG2	1:LO:114:LEU:HG	2.02	0.40
1:HO:171:GLU:HG2	1:GJ:181:ARG:HH21	1.86	0.40
1:AO:347:LEU:HD22	1:AO:347:LEU:HA	1.88	0.40
1:GO:256:ASP:HB2	1:BO:287:LYS:HE3	2.03	0.40
1:CO:107:SER:OG	1:CO:108:GLU:N	2.54	0.40
1:CK:338:GLY:HA2	1:CK:374:ASP:HB3	2.04	0.40
1:YJ:214:ASP:OD1	1:YJ:218:LYS:NZ	2.43	0.40
1:BK:357:LYS:CA	1:BK:357:LYS:CE	2.92	0.40
1:RJ:114:LEU:HB2	1:QJ:269:TYR:CZ	2.57	0.40
1:WJ:285:VAL:HA	1:WJ:288:MET:HE2	2.03	0.40
1:UJ:147:TRP:CD2	1:VJ:172:LEU:HD13	2.56	0.40
1:UJ:269:TYR:OH	1:UJ:374:ASP:OD2	2.27	0.40
1:SJ:186:SER:O	1:SJ:188:PHE:N	2.54	0.40
1:IJ:176:PRO:HG3	1:IJ:198:ILE:HD11	2.03	0.40
1:GJ:91:ASN:OD1	1:GJ:91:ASN:N	2.53	0.40
2:EH:18:HIS:CD2	2:DH:54:VAL:HG22	2.57	0.40
1:XE:227:LYS:HE2	1:XE:227:LYS:HB2	1.91	0.40
1:YE:324:ALA:HB3	1:YE:327:ALA:HB2	2.04	0.40
1:AF:210:PHE:CZ	1:AF:368:VAL:HG21	2.56	0.40
1:BF:343:GLU:HB3	1:BF:368:VAL:HG23	2.02	0.40
1:RE:227:LYS:HG2	1:RE:380:LEU:HD22	2.04	0.40
1:WE:268:GLU:HG2	1:SE:114:LEU:HG	2.03	0.40
1:SE:257:ALA:HB1	1:SE:381:LEU:HD11	2.03	0.40
1:HE:227:LYS:HB2	1:HE:227:LYS:HE2	1.84	0.40
1:DE:344:ARG:HE	1:DE:367:ARG:HD3	1.85	0.40
1:FE:154:LEU:HD23	1:GE:363:TYR:HE1	1.87	0.40
1:GE:162:ILE:H	1:GE:162:ILE:HG13	1.50	0.40
1:GE:344:ARG:HE	1:GE:367:ARG:HD3	1.87	0.40
2:CD:21:ILE:H	2:CD:21:ILE:HG13	1.79	0.40
2:AB:81:VAL:HG21	2:A6:54:VAL:HG21	2.02	0.40
2:EC:18:HIS:CD2	2:DC:54:VAL:HG22	2.57	0.40
2:EC:72:LEU:O	2:EC:76:THR:OG1	2.32	0.40
1:AA:141:THR:CG2	1:AA:142:ASP:H	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:210:PHE:CZ	1:AA:368:VAL:HG21	2.56	0.40
1:M9:147:TRP:H	1:M9:147:TRP:HE3	1.68	0.40
1:O9:352:ASP:N	1:O9:352:ASP:OD1	2.54	0.40
1:K9:277:MET:O	1:K9:317:ALA:N	2.49	0.40
1:J9:111:ARG:HB2	1:I9:138:VAL:HG12	2.04	0.40
1:G9:259:VAL:HG22	1:G9:310:MET:HE1	2.03	0.40
1:B9:179:SER:O	1:B9:183:LEU:HB2	2.21	0.40
1:B9:297:TRP:CE2	1:B9:309:LEU:HD23	2.56	0.40
2:D8:39:GLN:HE22	2:C8:56:TYR:HA	1.87	0.40
5:1A:243:ARG:HD3	4:2B:113:ARG:HG2	2.04	0.40
6:4A:51:ASP:OD1	6:4A:51:ASP:N	2.52	0.40
7:3A:81:ARG:NH2	7:3A:83:GLY:O	2.47	0.40
5:1K:243:ARG:HD3	4:2L:113:ARG:HG2	2.04	0.40
5:1K:316:ALA:HB1	5:1K:364:VAL:HG11	2.02	0.40
4:2L:76:GLN:O	4:2L:116:ILE:HG22	2.22	0.40
8:5X:44:LEU:HD11	8:52:7:LYS:HA	2.03	0.40
8:5L:62:ALA:HB3	8:5L:128:SER:HB3	2.03	0.40
5:1I:44:ARG:HH12	5:1I:45:ASP:HB3	1.87	0.40
5:1I:125:VAL:HB	5:1I:134:GLU:HB2	2.04	0.40
5:1J:177:CYS:HB2	5:1J:341:TRP:CG	2.57	0.40
6:4E:113:LYS:HG3	6:4E:114:ALA:H	1.86	0.40
7:3E:57:VAL:HA	7:3E:58:PRO:HD3	1.81	0.40
8:5K:62:ALA:HB3	8:5K:128:SER:HB3	2.03	0.40
5:1H:38:ARG:HA	5:1H:39:PRO:HD3	1.97	0.40
4:2F:56:LYS:HE2	4:2F:187:TRP:HE3	1.86	0.40
4:2F:89:LEU:HD13	4:2F:105:TRP:CZ2	2.56	0.40
4:2F:92:VAL:CG1	4:2F:93:ASP:H	2.35	0.40
6:4C:4:ALA:HA	6:4B:86:ALA:CB	2.51	0.40
6:4C:97:LEU:HG	6:4C:104:LEU:HD21	2.02	0.40
6:4B:118:GLU:C	6:4B:120:ALA:H	2.29	0.40
10:8A:787:LEU:HD23	10:8A:787:LEU:HA	1.74	0.40
8:5Y:6:GLY:CA	8:53:119:GLU:C	2.95	0.40
8:5Z:84:PHE:HE2	8:50:134:PHE:HB2	1.87	0.40
11:6E:37:ASN:OD1	11:6E:38:SER:N	2.55	0.40
9:7B:72:SER:O	9:7B:72:SER:OG	2.35	0.40
10:8B:215:LEU:O	10:8B:217:ARG:N	2.55	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	A4	287/385 (74%)	258 (90%)	28 (10%)	1 (0%)	36	71
1	A5	295/385 (77%)	273 (92%)	21 (7%)	1 (0%)	36	71
1	A9	287/385 (74%)	258 (90%)	28 (10%)	1 (0%)	36	71
1	AA	295/385 (77%)	273 (92%)	21 (7%)	1 (0%)	36	71
1	AE	287/385 (74%)	258 (90%)	28 (10%)	1 (0%)	36	71
1	AF	295/385 (77%)	273 (92%)	21 (7%)	1 (0%)	36	71
1	AJ	287/385 (74%)	258 (90%)	28 (10%)	1 (0%)	36	71
1	AK	295/385 (77%)	273 (92%)	21 (7%)	1 (0%)	36	71
1	AO	287/385 (74%)	258 (90%)	28 (10%)	1 (0%)	36	71
1	AP	295/385 (77%)	273 (92%)	21 (7%)	1 (0%)	36	71
1	B4	295/385 (77%)	264 (90%)	30 (10%)	1 (0%)	36	71
1	B5	267/385 (69%)	242 (91%)	22 (8%)	3 (1%)	11	45
1	B9	295/385 (77%)	264 (90%)	30 (10%)	1 (0%)	36	71
1	BA	267/385 (69%)	242 (91%)	22 (8%)	3 (1%)	11	45
1	BE	295/385 (77%)	264 (90%)	30 (10%)	1 (0%)	36	71
1	BF	267/385 (69%)	242 (91%)	22 (8%)	3 (1%)	11	45
1	BJ	295/385 (77%)	264 (90%)	30 (10%)	1 (0%)	36	71
1	BK	267/385 (69%)	242 (91%)	22 (8%)	3 (1%)	11	45
1	BO	295/385 (77%)	264 (90%)	30 (10%)	1 (0%)	36	71
1	BP	267/385 (69%)	242 (91%)	22 (8%)	3 (1%)	11	45
1	C4	295/385 (77%)	266 (90%)	29 (10%)	0	100	100
1	C5	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	C9	295/385 (77%)	266 (90%)	29 (10%)	0	100	100
1	CA	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	CE	295/385 (77%)	266 (90%)	29 (10%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	CF	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	CJ	295/385 (77%)	266 (90%)	29 (10%)	0	100	100
1	CK	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	CO	295/385 (77%)	266 (90%)	29 (10%)	0	100	100
1	CP	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	D4	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	D9	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	DE	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	DJ	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	DO	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	E4	295/385 (77%)	258 (88%)	36 (12%)	1 (0%)	36	71
1	E9	295/385 (77%)	258 (88%)	36 (12%)	1 (0%)	36	71
1	EE	295/385 (77%)	258 (88%)	36 (12%)	1 (0%)	36	71
1	EJ	295/385 (77%)	258 (88%)	36 (12%)	1 (0%)	36	71
1	EO	295/385 (77%)	258 (88%)	36 (12%)	1 (0%)	36	71
1	F4	295/385 (77%)	264 (90%)	29 (10%)	2 (1%)	18	55
1	F9	295/385 (77%)	264 (90%)	29 (10%)	2 (1%)	18	55
1	FE	295/385 (77%)	264 (90%)	29 (10%)	2 (1%)	18	55
1	FJ	295/385 (77%)	264 (90%)	29 (10%)	2 (1%)	18	55
1	FO	295/385 (77%)	264 (90%)	29 (10%)	2 (1%)	18	55
1	G4	295/385 (77%)	263 (89%)	31 (10%)	1 (0%)	36	71
1	G9	295/385 (77%)	263 (89%)	31 (10%)	1 (0%)	36	71
1	GE	295/385 (77%)	263 (89%)	31 (10%)	1 (0%)	36	71
1	GJ	295/385 (77%)	263 (89%)	31 (10%)	1 (0%)	36	71
1	GO	295/385 (77%)	263 (89%)	31 (10%)	1 (0%)	36	71
1	H4	287/385 (74%)	252 (88%)	34 (12%)	1 (0%)	36	71
1	H9	287/385 (74%)	252 (88%)	34 (12%)	1 (0%)	36	71
1	HE	287/385 (74%)	253 (88%)	33 (12%)	1 (0%)	36	71
1	HJ	287/385 (74%)	252 (88%)	34 (12%)	1 (0%)	36	71
1	HO	287/385 (74%)	252 (88%)	34 (12%)	1 (0%)	36	71
1	I4	287/385 (74%)	251 (88%)	35 (12%)	1 (0%)	36	71

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	I9	287/385 (74%)	250 (87%)	36 (12%)	1 (0%)	36	71
1	IE	287/385 (74%)	250 (87%)	36 (12%)	1 (0%)	36	71
1	IJ	287/385 (74%)	251 (88%)	35 (12%)	1 (0%)	36	71
1	IO	287/385 (74%)	250 (87%)	36 (12%)	1 (0%)	36	71
1	J4	287/385 (74%)	256 (89%)	29 (10%)	2 (1%)	18	55
1	J9	287/385 (74%)	256 (89%)	29 (10%)	2 (1%)	18	55
1	JE	287/385 (74%)	256 (89%)	29 (10%)	2 (1%)	18	55
1	JJ	287/385 (74%)	256 (89%)	29 (10%)	2 (1%)	18	55
1	JO	287/385 (74%)	256 (89%)	29 (10%)	2 (1%)	18	55
1	K4	287/385 (74%)	246 (86%)	40 (14%)	1 (0%)	36	71
1	K9	287/385 (74%)	247 (86%)	39 (14%)	1 (0%)	36	71
1	KE	287/385 (74%)	246 (86%)	40 (14%)	1 (0%)	36	71
1	KJ	287/385 (74%)	247 (86%)	39 (14%)	1 (0%)	36	71
1	KO	287/385 (74%)	247 (86%)	39 (14%)	1 (0%)	36	71
1	L4	287/385 (74%)	255 (89%)	31 (11%)	1 (0%)	36	71
1	L9	287/385 (74%)	255 (89%)	31 (11%)	1 (0%)	36	71
1	LE	287/385 (74%)	255 (89%)	31 (11%)	1 (0%)	36	71
1	LJ	287/385 (74%)	255 (89%)	31 (11%)	1 (0%)	36	71
1	LO	287/385 (74%)	255 (89%)	31 (11%)	1 (0%)	36	71
1	M4	295/385 (77%)	254 (86%)	41 (14%)	0	100	100
1	M9	295/385 (77%)	254 (86%)	41 (14%)	0	100	100
1	ME	295/385 (77%)	254 (86%)	41 (14%)	0	100	100
1	MJ	295/385 (77%)	254 (86%)	41 (14%)	0	100	100
1	MO	295/385 (77%)	253 (86%)	42 (14%)	0	100	100
1	N4	295/385 (77%)	264 (90%)	30 (10%)	1 (0%)	36	71
1	N9	295/385 (77%)	264 (90%)	30 (10%)	1 (0%)	36	71
1	NE	295/385 (77%)	264 (90%)	30 (10%)	1 (0%)	36	71
1	NJ	295/385 (77%)	264 (90%)	30 (10%)	1 (0%)	36	71
1	NO	295/385 (77%)	264 (90%)	30 (10%)	1 (0%)	36	71
1	O4	295/385 (77%)	257 (87%)	37 (12%)	1 (0%)	36	71
1	O9	295/385 (77%)	258 (88%)	36 (12%)	1 (0%)	36	71

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	OE	295/385 (77%)	257 (87%)	37 (12%)	1 (0%)	36	71
1	OJ	295/385 (77%)	258 (88%)	36 (12%)	1 (0%)	36	71
1	OO	295/385 (77%)	257 (87%)	37 (12%)	1 (0%)	36	71
1	P4	295/385 (77%)	256 (87%)	38 (13%)	1 (0%)	36	71
1	P9	295/385 (77%)	256 (87%)	38 (13%)	1 (0%)	36	71
1	PE	295/385 (77%)	256 (87%)	38 (13%)	1 (0%)	36	71
1	PJ	295/385 (77%)	256 (87%)	38 (13%)	1 (0%)	36	71
1	PO	295/385 (77%)	256 (87%)	38 (13%)	1 (0%)	36	71
1	Q4	295/385 (77%)	260 (88%)	34 (12%)	1 (0%)	36	71
1	Q9	295/385 (77%)	260 (88%)	34 (12%)	1 (0%)	36	71
1	QE	295/385 (77%)	260 (88%)	34 (12%)	1 (0%)	36	71
1	QJ	295/385 (77%)	259 (88%)	35 (12%)	1 (0%)	36	71
1	QO	295/385 (77%)	259 (88%)	35 (12%)	1 (0%)	36	71
1	R4	295/385 (77%)	261 (88%)	33 (11%)	1 (0%)	36	71
1	R9	295/385 (77%)	261 (88%)	33 (11%)	1 (0%)	36	71
1	RE	295/385 (77%)	261 (88%)	33 (11%)	1 (0%)	36	71
1	RJ	295/385 (77%)	261 (88%)	33 (11%)	1 (0%)	36	71
1	RO	295/385 (77%)	261 (88%)	33 (11%)	1 (0%)	36	71
1	S4	287/385 (74%)	257 (90%)	29 (10%)	1 (0%)	36	71
1	S9	287/385 (74%)	257 (90%)	29 (10%)	1 (0%)	36	71
1	SE	287/385 (74%)	257 (90%)	29 (10%)	1 (0%)	36	71
1	SJ	287/385 (74%)	257 (90%)	29 (10%)	1 (0%)	36	71
1	SO	287/385 (74%)	257 (90%)	29 (10%)	1 (0%)	36	71
1	T4	287/385 (74%)	255 (89%)	32 (11%)	0	100	100
1	T9	287/385 (74%)	255 (89%)	32 (11%)	0	100	100
1	TE	287/385 (74%)	256 (89%)	31 (11%)	0	100	100
1	TJ	287/385 (74%)	255 (89%)	32 (11%)	0	100	100
1	TO	287/385 (74%)	255 (89%)	32 (11%)	0	100	100
1	U4	287/385 (74%)	253 (88%)	33 (12%)	1 (0%)	36	71
1	U9	287/385 (74%)	253 (88%)	33 (12%)	1 (0%)	36	71
1	UE	287/385 (74%)	253 (88%)	33 (12%)	1 (0%)	36	71

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	UJ	287/385 (74%)	253 (88%)	33 (12%)	1 (0%)	36	71
1	UO	287/385 (74%)	253 (88%)	33 (12%)	1 (0%)	36	71
1	V4	287/385 (74%)	258 (90%)	28 (10%)	1 (0%)	36	71
1	V9	287/385 (74%)	258 (90%)	28 (10%)	1 (0%)	36	71
1	VE	287/385 (74%)	258 (90%)	28 (10%)	1 (0%)	36	71
1	VJ	287/385 (74%)	258 (90%)	28 (10%)	1 (0%)	36	71
1	VO	287/385 (74%)	258 (90%)	28 (10%)	1 (0%)	36	71
1	W4	287/385 (74%)	251 (88%)	35 (12%)	1 (0%)	36	71
1	W9	287/385 (74%)	251 (88%)	35 (12%)	1 (0%)	36	71
1	WE	287/385 (74%)	252 (88%)	34 (12%)	1 (0%)	36	71
1	WJ	287/385 (74%)	251 (88%)	35 (12%)	1 (0%)	36	71
1	WO	287/385 (74%)	251 (88%)	35 (12%)	1 (0%)	36	71
1	X4	295/385 (77%)	259 (88%)	36 (12%)	0	100	100
1	X9	295/385 (77%)	259 (88%)	36 (12%)	0	100	100
1	XE	295/385 (77%)	259 (88%)	36 (12%)	0	100	100
1	XJ	295/385 (77%)	259 (88%)	36 (12%)	0	100	100
1	XO	295/385 (77%)	259 (88%)	36 (12%)	0	100	100
1	Y4	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	Y9	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	YE	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	YJ	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	YO	295/385 (77%)	264 (90%)	31 (10%)	0	100	100
1	Z4	295/385 (77%)	269 (91%)	26 (9%)	0	100	100
1	Z9	295/385 (77%)	269 (91%)	26 (9%)	0	100	100
1	ZE	295/385 (77%)	269 (91%)	26 (9%)	0	100	100
1	ZJ	295/385 (77%)	269 (91%)	26 (9%)	0	100	100
1	ZO	295/385 (77%)	269 (91%)	26 (9%)	0	100	100
2	A1	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	A2	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	A3	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	A6	82/84 (98%)	77 (94%)	5 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	A7	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	A8	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	AB	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	AC	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	AD	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	AG	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	AH	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	AI	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	AL	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	AM	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	AN	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	B2	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	B3	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	B7	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	B8	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	BC	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	BD	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	BH	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	BI	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	BM	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	BN	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	C2	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	C3	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	C7	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	C8	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	CC	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	CD	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	CH	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	CI	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	CM	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	CN	82/84 (98%)	77 (94%)	5 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	D2	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	D3	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	D7	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	D8	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	DC	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	DD	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	DH	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	DI	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	DM	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	DN	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	E2	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	E3	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	E7	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	E8	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	EC	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	ED	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	EH	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	EI	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	EM	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
2	EN	82/84 (98%)	77 (94%)	5 (6%)	0	100	100
3	F2	8/325 (2%)	5 (62%)	3 (38%)	0	100	100
3	F3	8/325 (2%)	5 (62%)	3 (38%)	0	100	100
3	F7	8/325 (2%)	5 (62%)	3 (38%)	0	100	100
3	F8	8/325 (2%)	5 (62%)	3 (38%)	0	100	100
3	FC	8/325 (2%)	5 (62%)	3 (38%)	0	100	100
3	FD	8/325 (2%)	5 (62%)	3 (38%)	0	100	100
3	FH	8/325 (2%)	5 (62%)	3 (38%)	0	100	100
3	FI	8/325 (2%)	5 (62%)	3 (38%)	0	100	100
3	FM	8/325 (2%)	5 (62%)	3 (38%)	0	100	100
3	FN	8/325 (2%)	5 (62%)	3 (38%)	0	100	100
4	2A	190/197 (96%)	161 (85%)	28 (15%)	1 (0%)	24	63

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	2B	190/197 (96%)	164 (86%)	26 (14%)	0	100	100
4	2C	190/197 (96%)	161 (85%)	28 (15%)	1 (0%)	24	63
4	2D	190/197 (96%)	164 (86%)	26 (14%)	0	100	100
4	2E	190/197 (96%)	161 (85%)	28 (15%)	1 (0%)	24	63
4	2F	190/197 (96%)	164 (86%)	26 (14%)	0	100	100
4	2G	190/197 (96%)	161 (85%)	28 (15%)	1 (0%)	24	63
4	2H	190/197 (96%)	164 (86%)	26 (14%)	0	100	100
4	2I	190/197 (96%)	161 (85%)	28 (15%)	1 (0%)	24	63
4	2J	190/197 (96%)	164 (86%)	26 (14%)	0	100	100
4	2K	190/197 (96%)	161 (85%)	28 (15%)	1 (0%)	24	63
4	2L	190/197 (96%)	164 (86%)	26 (14%)	0	100	100
5	1A	356/396 (90%)	328 (92%)	28 (8%)	0	100	100
5	1B	356/396 (90%)	328 (92%)	28 (8%)	0	100	100
5	1C	356/396 (90%)	328 (92%)	28 (8%)	0	100	100
5	1D	356/396 (90%)	328 (92%)	28 (8%)	0	100	100
5	1E	356/396 (90%)	328 (92%)	28 (8%)	0	100	100
5	1F	356/396 (90%)	328 (92%)	28 (8%)	0	100	100
5	1G	356/396 (90%)	328 (92%)	28 (8%)	0	100	100
5	1H	356/396 (90%)	328 (92%)	28 (8%)	0	100	100
5	1I	356/396 (90%)	328 (92%)	28 (8%)	0	100	100
5	1J	356/396 (90%)	328 (92%)	28 (8%)	0	100	100
5	1K	356/396 (90%)	328 (92%)	28 (8%)	0	100	100
5	1L	356/396 (90%)	328 (92%)	28 (8%)	0	100	100
6	4A	132/135 (98%)	118 (89%)	14 (11%)	0	100	100
6	4B	132/135 (98%)	118 (89%)	14 (11%)	0	100	100
6	4C	132/135 (98%)	118 (89%)	14 (11%)	0	100	100
6	4D	132/135 (98%)	118 (89%)	14 (11%)	0	100	100
6	4E	132/135 (98%)	118 (89%)	14 (11%)	0	100	100
6	4F	132/135 (98%)	118 (89%)	14 (11%)	0	100	100
7	3A	108/112 (96%)	98 (91%)	10 (9%)	0	100	100
7	3B	108/112 (96%)	98 (91%)	10 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	3C	108/112 (96%)	98 (91%)	10 (9%)	0	100	100
7	3D	108/112 (96%)	98 (91%)	10 (9%)	0	100	100
7	3E	108/112 (96%)	98 (91%)	10 (9%)	0	100	100
7	3F	108/112 (96%)	98 (91%)	10 (9%)	0	100	100
8	50	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	51	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	52	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	53	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5A	126/137 (92%)	115 (91%)	11 (9%)	0	100	100
8	5B	126/137 (92%)	115 (91%)	11 (9%)	0	100	100
8	5C	126/137 (92%)	115 (91%)	11 (9%)	0	100	100
8	5D	126/137 (92%)	115 (91%)	11 (9%)	0	100	100
8	5E	126/137 (92%)	115 (91%)	11 (9%)	0	100	100
8	5F	126/137 (92%)	115 (91%)	11 (9%)	0	100	100
8	5G	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5H	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5I	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5J	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5K	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5L	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5M	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5N	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5O	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5P	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5Q	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5R	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5S	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5T	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5U	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5V	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5W	126/137 (92%)	111 (88%)	15 (12%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	5X	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5Y	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
8	5Z	126/137 (92%)	111 (88%)	15 (12%)	0	100	100
9	7A	290/296 (98%)	254 (88%)	36 (12%)	0	100	100
9	7B	290/296 (98%)	255 (88%)	35 (12%)	0	100	100
9	7C	290/296 (98%)	254 (88%)	36 (12%)	0	100	100
10	8A	431/1304 (33%)	375 (87%)	55 (13%)	1 (0%)	43	77
10	8B	431/1304 (33%)	375 (87%)	55 (13%)	1 (0%)	43	77
10	8C	431/1304 (33%)	375 (87%)	55 (13%)	1 (0%)	43	77
11	6A	130/210 (62%)	101 (78%)	29 (22%)	0	100	100
11	6B	130/210 (62%)	102 (78%)	27 (21%)	1 (1%)	16	53
11	6C	130/210 (62%)	101 (78%)	29 (22%)	0	100	100
11	6D	130/210 (62%)	102 (78%)	27 (21%)	1 (1%)	16	53
11	6E	130/210 (62%)	101 (78%)	29 (22%)	0	100	100
11	6F	130/210 (62%)	102 (78%)	27 (21%)	1 (1%)	16	53
All	All	61500/82463 (75%)	54790 (89%)	6573 (11%)	137 (0%)	44	77

All (137) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	E4	147	TRP
1	F4	93	ALA
1	G4	147	TRP
1	EO	147	TRP
1	FO	93	ALA
1	GO	147	TRP
1	EJ	147	TRP
1	FJ	93	ALA
1	GJ	147	TRP
1	EE	147	TRP
1	FE	93	ALA
1	GE	147	TRP
1	E9	147	TRP
1	F9	93	ALA
1	G9	147	TRP
1	N4	179	SER
1	W4	187	ALA

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Mol	Chain	Res	Type
1	U4	187	ALA
1	S4	187	ALA
1	K4	187	ALA
1	J4	187	ALA
1	J4	252	VAL
1	V4	187	ALA
1	L4	187	ALA
1	H4	187	ALA
1	I4	187	ALA
1	A4	187	ALA
1	NO	179	SER
1	WO	187	ALA
1	UO	187	ALA
1	SO	187	ALA
1	KO	187	ALA
1	JO	187	ALA
1	VO	187	ALA
1	LO	187	ALA
1	HO	187	ALA
1	IO	187	ALA
1	AO	187	ALA
1	NJ	179	SER
1	WJ	187	ALA
1	UJ	187	ALA
1	SJ	187	ALA
1	KJ	187	ALA
1	JJ	187	ALA
1	JJ	252	VAL
1	VJ	187	ALA
1	LJ	187	ALA
1	HJ	187	ALA
1	IJ	187	ALA
1	AJ	187	ALA
1	NE	179	SER
1	WE	187	ALA
1	UE	187	ALA
1	SE	187	ALA
1	KE	187	ALA
1	JE	187	ALA
1	JE	252	VAL
1	VE	187	ALA
1	LE	187	ALA

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Mol	Chain	Res	Type
1	HE	187	ALA
1	IE	187	ALA
1	AE	187	ALA
1	N9	179	SER
1	W9	187	ALA
1	U9	187	ALA
1	S9	187	ALA
1	K9	187	ALA
1	J9	187	ALA
1	J9	252	VAL
1	V9	187	ALA
1	L9	187	ALA
1	H9	187	ALA
1	I9	187	ALA
1	A9	187	ALA
1	B5	158	ALA
1	B5	189	ASP
1	P4	157	THR
1	BP	158	ALA
1	BP	189	ASP
1	PO	157	THR
1	JO	252	VAL
1	BK	158	ALA
1	BK	189	ASP
1	PJ	157	THR
1	BF	158	ALA
1	BF	189	ASP
1	PE	157	THR
1	BA	158	ALA
1	BA	189	ASP
1	P9	157	THR
4	2A	30	ALA
4	2K	30	ALA
4	2I	30	ALA
4	2G	30	ALA
4	2E	30	ALA
4	2C	30	ALA
10	8A	221	ALA
10	8C	221	ALA
10	8B	221	ALA
1	A5	226	THR
1	B4	92	SER

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Mol	Chain	Res	Type
1	AP	226	THR
1	BO	92	SER
1	AK	226	THR
1	BJ	92	SER
1	AF	226	THR
1	BE	92	SER
1	AA	226	THR
1	B9	92	SER
1	O4	108	GLU
1	F4	91	ASN
1	OO	108	GLU
1	FO	91	ASN
1	OJ	108	GLU
1	FJ	91	ASN
1	OE	108	GLU
1	FE	91	ASN
1	O9	108	GLU
1	F9	91	ASN
1	R4	180	GLN
1	Q4	92	SER
1	RO	180	GLN
1	QO	92	SER
1	RJ	180	GLN
1	QJ	92	SER
1	RE	180	GLN
1	QE	92	SER
1	R9	180	GLN
1	Q9	92	SER
1	B5	353	PRO
1	BP	353	PRO
1	BK	353	PRO
1	BF	353	PRO
1	BA	353	PRO
11	6B	206	VAL
11	6F	206	VAL
11	6D	206	VAL

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A4	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	A5	215/284 (76%)	209 (97%)	6 (3%)	38	59
1	A9	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	AA	217/284 (76%)	211 (97%)	6 (3%)	38	59
1	AE	215/284 (76%)	213 (99%)	2 (1%)	70	76
1	AF	218/284 (77%)	212 (97%)	6 (3%)	38	59
1	AJ	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	AK	218/284 (77%)	212 (97%)	6 (3%)	38	59
1	AO	215/284 (76%)	213 (99%)	2 (1%)	70	76
1	AP	216/284 (76%)	210 (97%)	6 (3%)	38	59
1	B4	218/284 (77%)	218 (100%)	0	100	100
1	B5	196/284 (69%)	193 (98%)	3 (2%)	57	70
1	B9	218/284 (77%)	218 (100%)	0	100	100
1	BA	197/284 (69%)	194 (98%)	3 (2%)	57	70
1	BE	218/284 (77%)	218 (100%)	0	100	100
1	BF	197/284 (69%)	194 (98%)	3 (2%)	57	70
1	BJ	218/284 (77%)	218 (100%)	0	100	100
1	BK	196/284 (69%)	193 (98%)	3 (2%)	57	70
1	BO	218/284 (77%)	218 (100%)	0	100	100
1	BP	196/284 (69%)	193 (98%)	3 (2%)	57	70
1	C4	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	C5	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	C9	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	CA	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	CE	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	CF	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	CJ	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	CK	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	CO	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	CP	218/284 (77%)	216 (99%)	2 (1%)	70	76

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D4	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	D9	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	DE	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	DJ	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	DO	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	E4	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	E9	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	EE	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	EJ	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	EO	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	F4	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	F9	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	FE	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	FJ	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	FO	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	G4	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	G9	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	GE	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	GJ	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	GO	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	H4	215/284 (76%)	215 (100%)	0	100	100
1	H9	215/284 (76%)	215 (100%)	0	100	100
1	HE	215/284 (76%)	215 (100%)	0	100	100
1	HJ	215/284 (76%)	215 (100%)	0	100	100
1	HO	215/284 (76%)	215 (100%)	0	100	100
1	I4	215/284 (76%)	215 (100%)	0	100	100
1	I9	215/284 (76%)	215 (100%)	0	100	100
1	IE	215/284 (76%)	215 (100%)	0	100	100
1	IJ	215/284 (76%)	215 (100%)	0	100	100
1	IO	215/284 (76%)	215 (100%)	0	100	100
1	J4	215/284 (76%)	215 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	J9	215/284 (76%)	215 (100%)	0	100	100
1	JE	215/284 (76%)	215 (100%)	0	100	100
1	JJ	215/284 (76%)	215 (100%)	0	100	100
1	JO	215/284 (76%)	215 (100%)	0	100	100
1	K4	215/284 (76%)	213 (99%)	2 (1%)	70	76
1	K9	215/284 (76%)	213 (99%)	2 (1%)	70	76
1	KE	215/284 (76%)	213 (99%)	2 (1%)	70	76
1	KJ	215/284 (76%)	213 (99%)	2 (1%)	70	76
1	KO	215/284 (76%)	213 (99%)	2 (1%)	70	76
1	L4	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	L9	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	LE	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	LJ	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	LO	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	M4	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	M9	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	ME	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	MJ	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	MO	218/284 (77%)	216 (99%)	2 (1%)	70	76
1	N4	218/284 (77%)	214 (98%)	4 (2%)	51	66
1	N9	218/284 (77%)	214 (98%)	4 (2%)	51	66
1	NE	218/284 (77%)	214 (98%)	4 (2%)	51	66
1	NJ	218/284 (77%)	214 (98%)	4 (2%)	51	66
1	NO	218/284 (77%)	214 (98%)	4 (2%)	51	66
1	O4	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	O9	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	OE	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	OJ	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	OO	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	P4	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	P9	218/284 (77%)	217 (100%)	1 (0%)	81	81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	PE	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	PJ	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	PO	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	Q4	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	Q9	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	QE	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	QJ	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	QO	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	R4	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	R9	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	RE	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	RJ	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	RO	218/284 (77%)	215 (99%)	3 (1%)	59	71
1	S4	215/284 (76%)	215 (100%)	0	100	100
1	S9	215/284 (76%)	215 (100%)	0	100	100
1	SE	215/284 (76%)	215 (100%)	0	100	100
1	SJ	215/284 (76%)	215 (100%)	0	100	100
1	SO	215/284 (76%)	215 (100%)	0	100	100
1	T4	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	T9	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	TE	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	TJ	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	TO	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	U4	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	U9	215/284 (76%)	213 (99%)	2 (1%)	70	76
1	UE	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	UJ	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	UO	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	V4	215/284 (76%)	215 (100%)	0	100	100
1	V9	215/284 (76%)	215 (100%)	0	100	100
1	VE	215/284 (76%)	215 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	VJ	215/284 (76%)	215 (100%)	0	100	100
1	VO	215/284 (76%)	215 (100%)	0	100	100
1	W4	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	W9	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	WE	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	WJ	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	WO	215/284 (76%)	214 (100%)	1 (0%)	81	81
1	X4	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	X9	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	XE	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	XJ	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	XO	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	Y4	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	Y9	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	YE	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	YJ	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	YO	218/284 (77%)	217 (100%)	1 (0%)	81	81
1	Z4	217/284 (76%)	217 (100%)	0	100	100
1	Z9	217/284 (76%)	217 (100%)	0	100	100
1	ZE	217/284 (76%)	217 (100%)	0	100	100
1	ZJ	217/284 (76%)	217 (100%)	0	100	100
1	ZO	217/284 (76%)	217 (100%)	0	100	100
2	A1	69/69 (100%)	69 (100%)	0	100	100
2	A2	69/69 (100%)	69 (100%)	0	100	100
2	A3	69/69 (100%)	69 (100%)	0	100	100
2	A6	69/69 (100%)	69 (100%)	0	100	100
2	A7	69/69 (100%)	69 (100%)	0	100	100
2	A8	69/69 (100%)	69 (100%)	0	100	100
2	AB	69/69 (100%)	69 (100%)	0	100	100
2	AC	69/69 (100%)	69 (100%)	0	100	100
2	AD	69/69 (100%)	69 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AG	69/69 (100%)	69 (100%)	0	100	100
2	AH	69/69 (100%)	69 (100%)	0	100	100
2	AI	69/69 (100%)	69 (100%)	0	100	100
2	AL	69/69 (100%)	69 (100%)	0	100	100
2	AM	69/69 (100%)	69 (100%)	0	100	100
2	AN	69/69 (100%)	69 (100%)	0	100	100
2	B2	69/69 (100%)	69 (100%)	0	100	100
2	B3	69/69 (100%)	69 (100%)	0	100	100
2	B7	69/69 (100%)	69 (100%)	0	100	100
2	B8	69/69 (100%)	69 (100%)	0	100	100
2	BC	69/69 (100%)	69 (100%)	0	100	100
2	BD	69/69 (100%)	69 (100%)	0	100	100
2	BH	69/69 (100%)	69 (100%)	0	100	100
2	BI	69/69 (100%)	69 (100%)	0	100	100
2	BM	69/69 (100%)	69 (100%)	0	100	100
2	BN	69/69 (100%)	69 (100%)	0	100	100
2	C2	69/69 (100%)	69 (100%)	0	100	100
2	C3	69/69 (100%)	69 (100%)	0	100	100
2	C7	69/69 (100%)	69 (100%)	0	100	100
2	C8	69/69 (100%)	69 (100%)	0	100	100
2	CC	69/69 (100%)	69 (100%)	0	100	100
2	CD	69/69 (100%)	69 (100%)	0	100	100
2	CH	69/69 (100%)	69 (100%)	0	100	100
2	CI	69/69 (100%)	69 (100%)	0	100	100
2	CM	69/69 (100%)	69 (100%)	0	100	100
2	CN	69/69 (100%)	69 (100%)	0	100	100
2	D2	69/69 (100%)	69 (100%)	0	100	100
2	D3	69/69 (100%)	69 (100%)	0	100	100
2	D7	69/69 (100%)	69 (100%)	0	100	100
2	D8	69/69 (100%)	69 (100%)	0	100	100
2	DC	69/69 (100%)	69 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	DD	69/69 (100%)	69 (100%)	0	100	100
2	DH	69/69 (100%)	69 (100%)	0	100	100
2	DI	69/69 (100%)	69 (100%)	0	100	100
2	DM	69/69 (100%)	69 (100%)	0	100	100
2	DN	69/69 (100%)	69 (100%)	0	100	100
2	E2	69/69 (100%)	69 (100%)	0	100	100
2	E3	69/69 (100%)	69 (100%)	0	100	100
2	E7	69/69 (100%)	69 (100%)	0	100	100
2	E8	69/69 (100%)	69 (100%)	0	100	100
2	EC	69/69 (100%)	69 (100%)	0	100	100
2	ED	69/69 (100%)	69 (100%)	0	100	100
2	EH	69/69 (100%)	69 (100%)	0	100	100
2	EI	69/69 (100%)	69 (100%)	0	100	100
2	EM	69/69 (100%)	69 (100%)	0	100	100
2	EN	69/69 (100%)	69 (100%)	0	100	100
3	F2	5/224 (2%)	5 (100%)	0	100	100
3	F3	5/224 (2%)	5 (100%)	0	100	100
3	F7	5/224 (2%)	5 (100%)	0	100	100
3	F8	5/224 (2%)	5 (100%)	0	100	100
3	FC	5/224 (2%)	5 (100%)	0	100	100
3	FD	5/224 (2%)	5 (100%)	0	100	100
3	FH	5/224 (2%)	5 (100%)	0	100	100
3	FI	5/224 (2%)	5 (100%)	0	100	100
3	FM	5/224 (2%)	5 (100%)	0	100	100
3	FN	5/224 (2%)	5 (100%)	0	100	100
4	2A	138/141 (98%)	137 (99%)	1 (1%)	76	79
4	2B	139/141 (99%)	139 (100%)	0	100	100
4	2C	138/141 (98%)	137 (99%)	1 (1%)	76	79
4	2D	140/141 (99%)	140 (100%)	0	100	100
4	2E	138/141 (98%)	137 (99%)	1 (1%)	76	79
4	2F	140/141 (99%)	140 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	2G	137/141 (97%)	136 (99%)	1 (1%)	76	79
4	2H	139/141 (99%)	139 (100%)	0	100	100
4	2I	138/141 (98%)	137 (99%)	1 (1%)	76	79
4	2J	140/141 (99%)	140 (100%)	0	100	100
4	2K	137/141 (97%)	136 (99%)	1 (1%)	76	79
4	2L	140/141 (99%)	140 (100%)	0	100	100
5	1A	272/302 (90%)	268 (98%)	4 (2%)	57	70
5	1B	274/302 (91%)	272 (99%)	2 (1%)	76	79
5	1C	272/302 (90%)	268 (98%)	4 (2%)	57	70
5	1D	273/302 (90%)	271 (99%)	2 (1%)	76	79
5	1E	273/302 (90%)	269 (98%)	4 (2%)	57	70
5	1F	273/302 (90%)	271 (99%)	2 (1%)	76	79
5	1G	274/302 (91%)	270 (98%)	4 (2%)	57	70
5	1H	273/302 (90%)	271 (99%)	2 (1%)	76	79
5	1I	273/302 (90%)	269 (98%)	4 (2%)	57	70
5	1J	273/302 (90%)	271 (99%)	2 (1%)	76	79
5	1K	273/302 (90%)	269 (98%)	4 (2%)	57	70
5	1L	273/302 (90%)	271 (99%)	2 (1%)	76	79
6	4A	91/92 (99%)	91 (100%)	0	100	100
6	4B	91/92 (99%)	91 (100%)	0	100	100
6	4C	91/92 (99%)	91 (100%)	0	100	100
6	4D	91/92 (99%)	91 (100%)	0	100	100
6	4E	91/92 (99%)	91 (100%)	0	100	100
6	4F	91/92 (99%)	91 (100%)	0	100	100
7	3A	83/85 (98%)	83 (100%)	0	100	100
7	3B	83/85 (98%)	83 (100%)	0	100	100
7	3C	83/85 (98%)	83 (100%)	0	100	100
7	3D	83/85 (98%)	83 (100%)	0	100	100
7	3E	83/85 (98%)	83 (100%)	0	100	100
7	3F	83/85 (98%)	83 (100%)	0	100	100
8	50	99/103 (96%)	99 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	51	99/103 (96%)	99 (100%)	0	100	100
8	52	99/103 (96%)	99 (100%)	0	100	100
8	53	99/103 (96%)	99 (100%)	0	100	100
8	5A	99/103 (96%)	97 (98%)	2 (2%)	48	65
8	5B	99/103 (96%)	97 (98%)	2 (2%)	48	65
8	5C	99/103 (96%)	97 (98%)	2 (2%)	48	65
8	5D	99/103 (96%)	97 (98%)	2 (2%)	48	65
8	5E	99/103 (96%)	97 (98%)	2 (2%)	48	65
8	5F	99/103 (96%)	97 (98%)	2 (2%)	48	65
8	5G	99/103 (96%)	99 (100%)	0	100	100
8	5H	99/103 (96%)	99 (100%)	0	100	100
8	5I	99/103 (96%)	99 (100%)	0	100	100
8	5J	99/103 (96%)	99 (100%)	0	100	100
8	5K	99/103 (96%)	99 (100%)	0	100	100
8	5L	99/103 (96%)	99 (100%)	0	100	100
8	5M	99/103 (96%)	99 (100%)	0	100	100
8	5N	99/103 (96%)	99 (100%)	0	100	100
8	5O	99/103 (96%)	99 (100%)	0	100	100
8	5P	99/103 (96%)	99 (100%)	0	100	100
8	5Q	99/103 (96%)	99 (100%)	0	100	100
8	5R	99/103 (96%)	99 (100%)	0	100	100
8	5S	99/103 (96%)	99 (100%)	0	100	100
8	5T	99/103 (96%)	99 (100%)	0	100	100
8	5U	99/103 (96%)	99 (100%)	0	100	100
8	5V	99/103 (96%)	99 (100%)	0	100	100
8	5W	99/103 (96%)	99 (100%)	0	100	100
8	5X	99/103 (96%)	99 (100%)	0	100	100
8	5Y	99/103 (96%)	99 (100%)	0	100	100
8	5Z	99/103 (96%)	99 (100%)	0	100	100
9	7A	212/218 (97%)	212 (100%)	0	100	100
9	7B	212/218 (97%)	212 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	7C	212/218 (97%)	212 (100%)	0	100	100
10	8A	310/952 (33%)	307 (99%)	3 (1%)	68	76
10	8B	310/952 (33%)	307 (99%)	3 (1%)	68	76
10	8C	310/952 (33%)	307 (99%)	3 (1%)	68	76
11	6A	109/169 (64%)	107 (98%)	2 (2%)	51	66
11	6B	109/169 (64%)	106 (97%)	3 (3%)	38	59
11	6C	109/169 (64%)	107 (98%)	2 (2%)	51	66
11	6D	109/169 (64%)	106 (97%)	3 (3%)	38	59
11	6E	109/169 (64%)	107 (98%)	2 (2%)	51	66
11	6F	109/169 (64%)	106 (97%)	3 (3%)	38	59
All	All	46345/61207 (76%)	46044 (99%)	301 (1%)	76	80

All (301) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C5	110	ILE
1	C5	113	VAL
1	X4	162	ILE
1	Y4	113	VAL
1	A5	140	LYS
1	A5	177	LYS
1	A5	227	LYS
1	A5	261	LEU
1	A5	289	LYS
1	A5	367	ARG
1	B5	189	ASP
1	B5	190	ILE
1	B5	261	LEU
1	N4	101	LEU
1	N4	190	ILE
1	N4	309	LEU
1	N4	348	ARG
1	R4	101	LEU
1	R4	129	VAL
1	R4	265	LEU
1	M4	154	LEU
1	M4	259	VAL
1	Q4	101	LEU

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Mol	Chain	Res	Type
1	Q4	265	LEU
1	Q4	309	LEU
1	O4	101	LEU
1	P4	154	LEU
1	W4	261	LEU
1	U4	265	LEU
1	T4	347	LEU
1	K4	261	LEU
1	K4	265	LEU
1	L4	265	LEU
1	A4	347	LEU
1	D4	261	LEU
1	E4	162	ILE
1	E4	349	VAL
1	F4	90	LEU
1	G4	154	LEU
1	G4	162	ILE
1	G4	261	LEU
1	C4	154	LEU
1	C4	162	ILE
1	C4	349	VAL
1	CP	110	ILE
1	CP	113	VAL
1	XO	162	ILE
1	YO	113	VAL
1	AP	140	LYS
1	AP	177	LYS
1	AP	227	LYS
1	AP	261	LEU
1	AP	289	LYS
1	AP	367	ARG
1	BP	189	ASP
1	BP	190	ILE
1	BP	261	LEU
1	NO	101	LEU
1	NO	190	ILE
1	NO	309	LEU
1	NO	348	ARG
1	RO	101	LEU
1	RO	129	VAL
1	RO	265	LEU
1	MO	154	LEU

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Mol	Chain	Res	Type
1	MO	259	VAL
1	QO	101	LEU
1	QO	265	LEU
1	QO	309	LEU
1	OO	101	LEU
1	PO	154	LEU
1	WO	261	LEU
1	UO	265	LEU
1	TO	347	LEU
1	KO	261	LEU
1	KO	265	LEU
1	LO	265	LEU
1	AO	265	LEU
1	AO	347	LEU
1	DO	261	LEU
1	EO	162	ILE
1	EO	349	VAL
1	FO	90	LEU
1	GO	154	LEU
1	GO	162	ILE
1	GO	261	LEU
1	CO	154	LEU
1	CO	162	ILE
1	CO	349	VAL
1	CK	110	ILE
1	CK	113	VAL
1	XJ	162	ILE
1	YJ	113	VAL
1	AK	140	LYS
1	AK	177	LYS
1	AK	227	LYS
1	AK	261	LEU
1	AK	289	LYS
1	AK	367	ARG
1	BK	189	ASP
1	BK	190	ILE
1	BK	261	LEU
1	NJ	101	LEU
1	NJ	190	ILE
1	NJ	309	LEU
1	NJ	348	ARG
1	RJ	101	LEU

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Mol	Chain	Res	Type
1	RJ	129	VAL
1	RJ	265	LEU
1	MJ	154	LEU
1	MJ	259	VAL
1	QJ	101	LEU
1	QJ	265	LEU
1	QJ	309	LEU
1	OJ	101	LEU
1	PJ	154	LEU
1	WJ	261	LEU
1	UJ	265	LEU
1	TJ	347	LEU
1	KJ	261	LEU
1	KJ	265	LEU
1	LJ	265	LEU
1	AJ	347	LEU
1	DJ	261	LEU
1	EJ	162	ILE
1	EJ	349	VAL
1	FJ	90	LEU
1	GJ	154	LEU
1	GJ	162	ILE
1	GJ	261	LEU
1	CJ	154	LEU
1	CJ	162	ILE
1	CJ	349	VAL
1	CF	110	ILE
1	CF	113	VAL
1	XE	162	ILE
1	YE	113	VAL
1	AF	140	LYS
1	AF	177	LYS
1	AF	227	LYS
1	AF	261	LEU
1	AF	289	LYS
1	AF	367	ARG
1	BF	189	ASP
1	BF	190	ILE
1	BF	261	LEU
1	NE	101	LEU
1	NE	190	ILE
1	NE	309	LEU

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Mol	Chain	Res	Type
1	NE	348	ARG
1	RE	101	LEU
1	RE	129	VAL
1	RE	265	LEU
1	ME	154	LEU
1	ME	259	VAL
1	QE	101	LEU
1	QE	265	LEU
1	QE	309	LEU
1	OE	101	LEU
1	PE	154	LEU
1	WE	261	LEU
1	UE	265	LEU
1	TE	347	LEU
1	KE	261	LEU
1	KE	265	LEU
1	LE	265	LEU
1	AE	265	LEU
1	AE	347	LEU
1	DE	261	LEU
1	EE	162	ILE
1	EE	349	VAL
1	FE	90	LEU
1	GE	154	LEU
1	GE	162	ILE
1	GE	261	LEU
1	CE	154	LEU
1	CE	162	ILE
1	CE	349	VAL
1	CA	110	ILE
1	CA	113	VAL
1	X9	162	ILE
1	Y9	113	VAL
1	AA	140	LYS
1	AA	177	LYS
1	AA	227	LYS
1	AA	261	LEU
1	AA	289	LYS
1	AA	367	ARG
1	BA	189	ASP
1	BA	190	ILE
1	BA	261	LEU

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Mol	Chain	Res	Type
1	N9	101	LEU
1	N9	190	ILE
1	N9	309	LEU
1	N9	348	ARG
1	R9	101	LEU
1	R9	129	VAL
1	R9	265	LEU
1	M9	154	LEU
1	M9	259	VAL
1	Q9	101	LEU
1	Q9	265	LEU
1	Q9	309	LEU
1	O9	101	LEU
1	P9	154	LEU
1	W9	261	LEU
1	U9	265	LEU
1	U9	347	LEU
1	T9	347	LEU
1	K9	261	LEU
1	K9	265	LEU
1	L9	265	LEU
1	A9	347	LEU
1	D9	261	LEU
1	E9	162	ILE
1	E9	349	VAL
1	F9	90	LEU
1	G9	154	LEU
1	G9	162	ILE
1	G9	261	LEU
1	C9	154	LEU
1	C9	162	ILE
1	C9	349	VAL
4	2A	35	GLU
5	1A	25	VAL
5	1A	226	ILE
5	1A	244	LEU
5	1A	331	LEU
5	1B	226	ILE
5	1B	244	LEU
8	5A	44	LEU
8	5A	45	GLU
4	2K	35	GLU

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Mol	Chain	Res	Type
5	1K	25	VAL
5	1K	226	ILE
5	1K	244	LEU
5	1K	331	LEU
5	1L	226	ILE
5	1L	244	LEU
8	5F	44	LEU
8	5F	45	GLU
4	2I	35	GLU
5	1I	25	VAL
5	1I	226	ILE
5	1I	244	LEU
5	1I	331	LEU
5	1J	226	ILE
5	1J	244	LEU
8	5E	44	LEU
8	5E	45	GLU
4	2G	35	GLU
5	1G	25	VAL
5	1G	226	ILE
5	1G	244	LEU
5	1G	331	LEU
5	1H	226	ILE
5	1H	244	LEU
8	5D	44	LEU
8	5D	45	GLU
4	2E	35	GLU
5	1E	25	VAL
5	1E	226	ILE
5	1E	244	LEU
5	1E	331	LEU
5	1F	226	ILE
5	1F	244	LEU
8	5C	44	LEU
8	5C	45	GLU
4	2C	35	GLU
5	1C	25	VAL
5	1C	226	ILE
5	1C	244	LEU
5	1C	331	LEU
5	1D	226	ILE
5	1D	244	LEU

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Mol	Chain	Res	Type
8	5B	44	LEU
8	5B	45	GLU
10	8A	189	PHE
10	8A	219	LEU
10	8A	222	VAL
11	6B	23	ARG
11	6B	73	LEU
11	6B	203	VAL
11	6A	73	LEU
11	6A	203	VAL
10	8C	189	PHE
10	8C	219	LEU
10	8C	222	VAL
11	6F	23	ARG
11	6F	73	LEU
11	6F	203	VAL
11	6E	73	LEU
11	6E	203	VAL
10	8B	189	PHE
10	8B	219	LEU
10	8B	222	VAL
11	6D	23	ARG
11	6D	73	LEU
11	6D	203	VAL
11	6C	73	LEU
11	6C	203	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (439) such sidechains are listed below:

Mol	Chain	Res	Type
1	C5	180	GLN
1	C5	359	HIS
1	X4	91	ASN
1	X4	359	HIS
1	Y4	128	ASN
1	Y4	180	GLN
1	Z4	180	GLN
1	Z4	359	HIS
1	A5	180	GLN
1	B5	196	ASN
1	N4	253	ASN
1	R4	180	GLN

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Mol	Chain	Res	Type
1	R4	359	HIS
1	M4	180	GLN
1	M4	359	HIS
1	Q4	337	ASN
1	O4	180	GLN
1	O4	326	ASN
1	P4	180	GLN
1	W4	326	ASN
1	W4	359	HIS
1	U4	326	ASN
1	U4	359	HIS
1	T4	326	ASN
1	S4	326	ASN
1	J4	326	ASN
1	L4	326	ASN
1	H4	326	ASN
1	I4	326	ASN
1	A4	359	HIS
1	D4	180	GLN
1	D4	359	HIS
1	E4	180	GLN
1	E4	359	HIS
1	F4	128	ASN
1	F4	180	GLN
1	G4	180	GLN
1	B4	359	HIS
1	C4	180	GLN
1	C4	337	ASN
2	E3	7	HIS
2	E3	39	GLN
2	D3	39	GLN
2	A3	7	HIS
2	A3	39	GLN
2	C3	7	HIS
2	C3	39	GLN
2	B3	7	HIS
2	B3	39	GLN
2	A1	39	GLN
2	E2	7	HIS
2	E2	39	GLN
2	D2	7	HIS
2	D2	39	GLN

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Mol	Chain	Res	Type
2	A2	7	HIS
2	A2	39	GLN
2	C2	7	HIS
2	C2	39	GLN
2	B2	7	HIS
2	B2	39	GLN
1	CP	180	GLN
1	CP	359	HIS
1	XO	91	ASN
1	XO	359	HIS
1	YO	128	ASN
1	YO	180	GLN
1	ZO	180	GLN
1	ZO	359	HIS
1	AP	105	GLN
1	AP	180	GLN
1	RO	180	GLN
1	RO	359	HIS
1	MO	180	GLN
1	MO	359	HIS
1	OO	180	GLN
1	OO	326	ASN
1	PO	180	GLN
1	WO	326	ASN
1	WO	359	HIS
1	UO	326	ASN
1	UO	359	HIS
1	TO	326	ASN
1	SO	326	ASN
1	JO	326	ASN
1	VO	359	HIS
1	LO	326	ASN
1	HO	326	ASN
1	IO	326	ASN
1	AO	326	ASN
1	DO	180	GLN
1	DO	253	ASN
1	DO	359	HIS
1	EO	180	GLN
1	EO	359	HIS
1	FO	128	ASN
1	FO	180	GLN

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Mol	Chain	Res	Type
1	GO	180	GLN
1	BO	128	ASN
1	BO	180	GLN
1	BO	359	HIS
1	CO	180	GLN
2	EN	7	HIS
2	EN	39	GLN
2	DN	39	GLN
2	AN	7	HIS
2	AN	39	GLN
2	CN	7	HIS
2	CN	39	GLN
2	BN	7	HIS
2	BN	39	GLN
2	AL	39	GLN
2	EM	7	HIS
2	EM	39	GLN
2	DM	7	HIS
2	DM	39	GLN
2	AM	7	HIS
2	AM	39	GLN
2	CM	7	HIS
2	CM	39	GLN
2	BM	7	HIS
2	BM	39	GLN
1	CK	180	GLN
1	CK	359	HIS
1	XJ	91	ASN
1	XJ	359	HIS
1	YJ	128	ASN
1	YJ	180	GLN
1	ZJ	180	GLN
1	ZJ	359	HIS
1	AK	128	ASN
1	AK	180	GLN
1	BK	196	ASN
1	NJ	253	ASN
1	RJ	180	GLN
1	RJ	359	HIS
1	MJ	180	GLN
1	MJ	359	HIS
1	QJ	337	ASN

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Mol	Chain	Res	Type
1	OJ	180	GLN
1	OJ	326	ASN
1	PJ	180	GLN
1	WJ	326	ASN
1	WJ	359	HIS
1	UJ	326	ASN
1	UJ	359	HIS
1	TJ	326	ASN
1	SJ	326	ASN
1	JJ	326	ASN
1	LJ	326	ASN
1	HJ	326	ASN
1	IJ	326	ASN
1	AJ	326	ASN
1	DJ	180	GLN
1	DJ	359	HIS
1	EJ	359	HIS
1	FJ	128	ASN
1	FJ	180	GLN
1	GJ	180	GLN
1	BJ	128	ASN
1	BJ	359	HIS
1	CJ	180	GLN
2	EI	7	HIS
2	EI	39	GLN
2	DI	39	GLN
2	AI	7	HIS
2	AI	39	GLN
2	CI	7	HIS
2	CI	39	GLN
2	BI	7	HIS
2	BI	39	GLN
2	AG	39	GLN
2	EH	7	HIS
2	EH	39	GLN
2	DH	7	HIS
2	DH	39	GLN
2	AH	7	HIS
2	AH	39	GLN
2	CH	7	HIS
2	CH	39	GLN
2	BH	7	HIS

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Mol	Chain	Res	Type
2	BH	39	GLN
1	CF	180	GLN
1	CF	359	HIS
1	XE	91	ASN
1	XE	359	HIS
1	YE	128	ASN
1	YE	180	GLN
1	YE	359	HIS
1	ZE	180	GLN
1	ZE	359	HIS
1	AF	180	GLN
1	NE	253	ASN
1	RE	180	GLN
1	RE	359	HIS
1	ME	180	GLN
1	ME	359	HIS
1	QE	337	ASN
1	OE	180	GLN
1	OE	326	ASN
1	PE	180	GLN
1	WE	326	ASN
1	WE	359	HIS
1	UE	326	ASN
1	UE	359	HIS
1	TE	326	ASN
1	SE	326	ASN
1	JE	326	ASN
1	VE	359	HIS
1	LE	326	ASN
1	HE	326	ASN
1	IE	326	ASN
1	AE	326	ASN
1	DE	180	GLN
1	DE	253	ASN
1	DE	359	HIS
1	EE	180	GLN
1	EE	359	HIS
1	FE	128	ASN
1	FE	180	GLN
1	GE	180	GLN
1	BE	128	ASN
1	BE	359	HIS

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Mol	Chain	Res	Type
1	CE	180	GLN
2	ED	7	HIS
2	ED	39	GLN
2	DD	39	GLN
2	AD	7	HIS
2	AD	39	GLN
2	CD	7	HIS
2	CD	39	GLN
2	BD	7	HIS
2	BD	39	GLN
2	AB	39	GLN
2	EC	7	HIS
2	EC	39	GLN
2	DC	7	HIS
2	DC	39	GLN
2	AC	7	HIS
2	AC	39	GLN
2	CC	7	HIS
2	CC	39	GLN
2	BC	7	HIS
2	BC	39	GLN
1	CA	180	GLN
1	CA	359	HIS
1	X9	91	ASN
1	X9	359	HIS
1	Y9	128	ASN
1	Y9	180	GLN
1	Y9	359	HIS
1	Z9	180	GLN
1	Z9	359	HIS
1	AA	170	HIS
1	AA	180	GLN
1	R9	180	GLN
1	M9	180	GLN
1	M9	359	HIS
1	Q9	337	ASN
1	O9	180	GLN
1	O9	326	ASN
1	P9	180	GLN
1	W9	326	ASN
1	W9	359	HIS
1	U9	326	ASN

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Mol	Chain	Res	Type
1	U9	359	HIS
1	T9	326	ASN
1	S9	326	ASN
1	J9	326	ASN
1	L9	326	ASN
1	H9	326	ASN
1	I9	326	ASN
1	A9	326	ASN
1	D9	180	GLN
1	D9	253	ASN
1	D9	359	HIS
1	E9	180	GLN
1	E9	359	HIS
1	F9	128	ASN
1	F9	180	GLN
1	G9	180	GLN
1	B9	180	GLN
1	B9	359	HIS
1	C9	180	GLN
2	E8	7	HIS
2	E8	39	GLN
2	D8	39	GLN
2	A8	7	HIS
2	A8	39	GLN
2	C8	7	HIS
2	C8	39	GLN
2	B8	7	HIS
2	B8	39	GLN
2	A6	39	GLN
2	E7	7	HIS
2	E7	39	GLN
2	D7	7	HIS
2	D7	39	GLN
2	A7	7	HIS
2	A7	39	GLN
2	C7	7	HIS
2	C7	39	GLN
2	B7	7	HIS
2	B7	39	GLN
4	2A	76	GLN
4	2A	153	GLN
5	1A	204	HIS

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Mol	Chain	Res	Type
5	1A	319	ASN
5	1A	358	GLN
5	1B	204	HIS
5	1B	253	GLN
5	1B	283	HIS
4	2B	153	GLN
4	2B	161	GLN
7	3A	25	HIS
7	3A	100	HIS
8	5A	4	GLN
8	5A	35	ASN
8	5A	102	GLN
8	5A	116	HIS
8	5S	116	HIS
8	5G	35	ASN
8	5G	102	GLN
8	5M	102	GLN
8	5M	116	HIS
4	2K	76	GLN
4	2K	153	GLN
5	1K	204	HIS
5	1K	319	ASN
5	1K	358	GLN
5	1L	253	GLN
5	1L	283	HIS
4	2L	153	GLN
4	2L	161	GLN
7	3F	25	HIS
8	5X	116	HIS
8	5L	35	ASN
8	5R	116	HIS
4	2I	76	GLN
4	2I	153	GLN
5	1I	204	HIS
5	1I	319	ASN
5	1J	253	GLN
5	1J	283	HIS
4	2J	153	GLN
4	2J	161	GLN
7	3E	25	HIS
8	5E	116	HIS
8	5W	116	HIS

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Mol	Chain	Res	Type
8	5K	35	ASN
4	2G	76	GLN
4	2G	153	GLN
5	1G	204	HIS
5	1G	319	ASN
5	1G	358	GLN
5	1H	204	HIS
5	1H	253	GLN
5	1H	283	HIS
4	2H	153	GLN
4	2H	161	GLN
7	3D	25	HIS
8	5D	116	HIS
8	5J	35	ASN
8	5J	102	GLN
8	5P	102	GLN
4	2E	76	GLN
4	2E	153	GLN
5	1E	204	HIS
5	1E	319	ASN
5	1E	358	GLN
5	1F	204	HIS
5	1F	253	GLN
5	1F	283	HIS
4	2F	153	GLN
4	2F	161	GLN
7	3C	25	HIS
7	3C	100	HIS
8	5C	4	GLN
8	5C	116	HIS
8	5U	116	HIS
8	5I	35	ASN
8	5O	116	HIS
4	2C	76	GLN
4	2C	153	GLN
5	1C	204	HIS
5	1C	319	ASN
5	1C	358	GLN
5	1D	204	HIS
5	1D	253	GLN
5	1D	283	HIS
4	2D	153	GLN

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Mol	Chain	Res	Type
4	2D	161	GLN
6	4B	65	HIS
7	3B	25	HIS
7	3B	100	HIS
8	5B	4	GLN
8	5B	116	HIS
8	5T	102	GLN
8	5T	116	HIS
8	5H	35	ASN
8	5N	102	GLN
8	5N	116	HIS
9	7A	140	GLN
9	7A	232	GLN
9	7A	263	ASN
9	7A	266	ASN
10	8A	205	GLN
10	8A	764	GLN
11	6B	72	GLN
11	6B	196	GLN
11	6A	72	GLN
8	5Y	35	ASN
8	5Y	102	GLN
8	5Y	116	HIS
9	7C	140	GLN
9	7C	232	GLN
9	7C	263	ASN
9	7C	266	ASN
10	8C	205	GLN
11	6F	72	GLN
11	6F	196	GLN
11	6E	72	GLN
8	52	35	ASN
8	52	102	GLN
8	52	116	HIS
8	53	116	HIS
9	7B	140	GLN
9	7B	232	GLN
9	7B	263	ASN
9	7B	266	ASN
10	8B	205	GLN
10	8B	764	GLN
11	6D	72	GLN

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Mol	Chain	Res	Type
11	6D	196	GLN
11	6C	72	GLN
8	50	35	ASN
8	50	102	GLN
8	50	116	HIS
8	51	102	GLN
8	51	116	HIS

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 ⓘ

3 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
12	SF4	7C	301	-	0,12,12	-	-	-		
12	SF4	7A	301	-	0,12,12	-	-	-		
12	SF4	7B	301	-	0,12,12	-	-	-		

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns.

'-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	SF4	7C	301	-	-	-	0/6/5/5
12	SF4	7A	301	-	-	-	0/6/5/5
12	SF4	7B	301	-	-	-	0/6/5/5

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

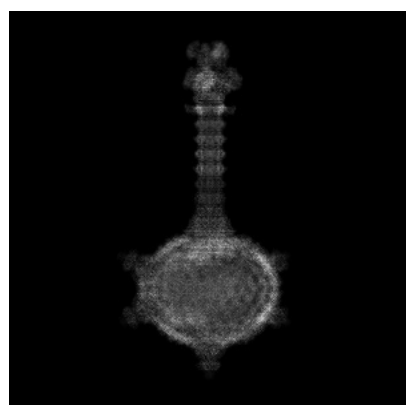
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-10443. These allow visual inspection of the internal detail of the map and identification of artifacts.

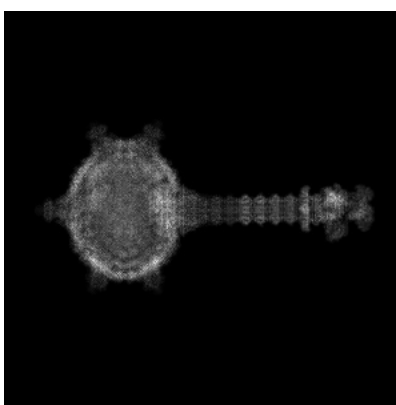
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

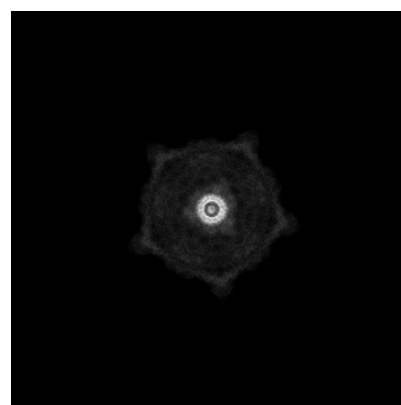
6.1.1 Primary map



X



Y

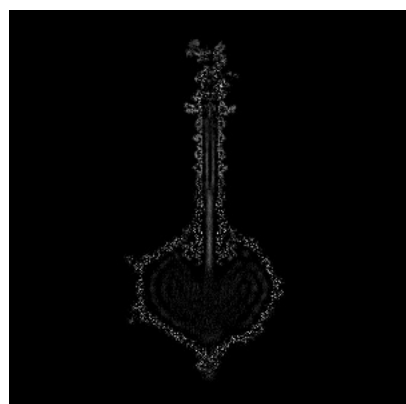


Z

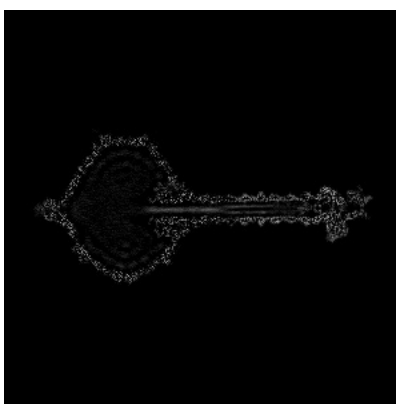
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

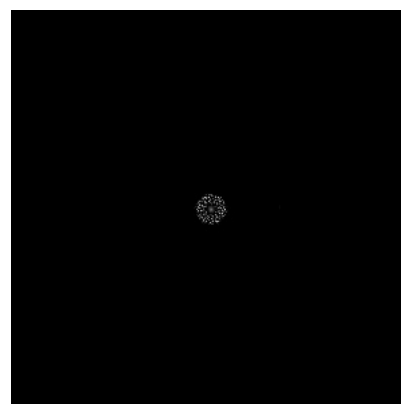
6.2.1 Primary map



X Index: 480



Y Index: 480

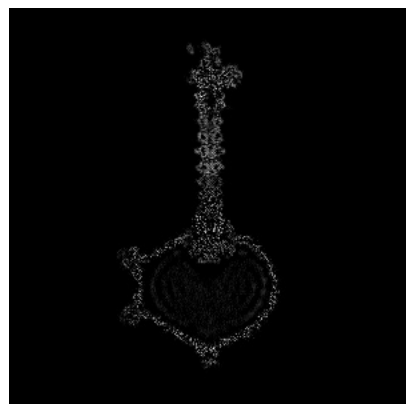


Z Index: 480

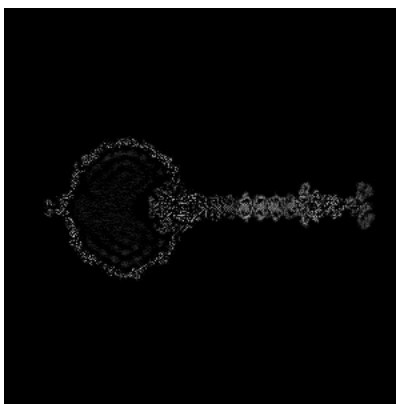
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

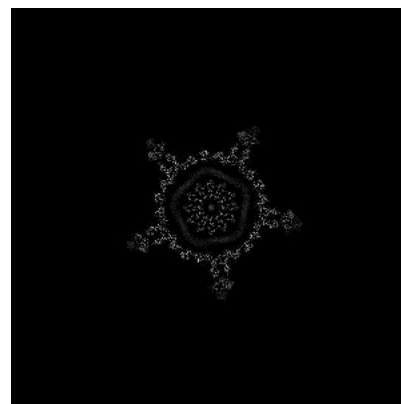
6.3.1 Primary map



X Index: 501



Y Index: 503

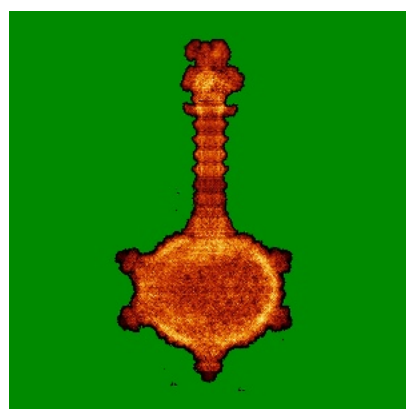


Z Index: 371

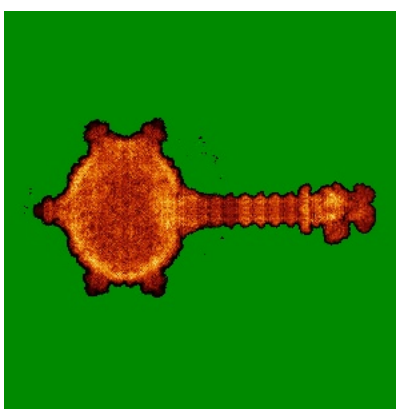
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

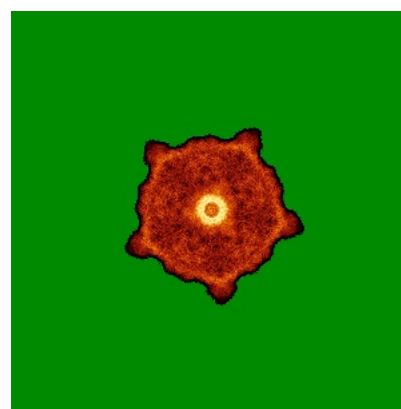
6.4.1 Primary map



X



Y

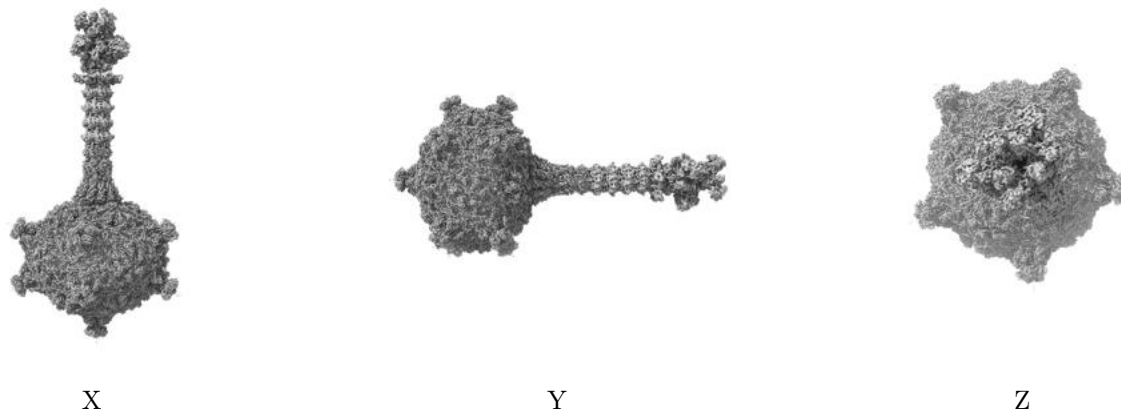


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 4.5. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

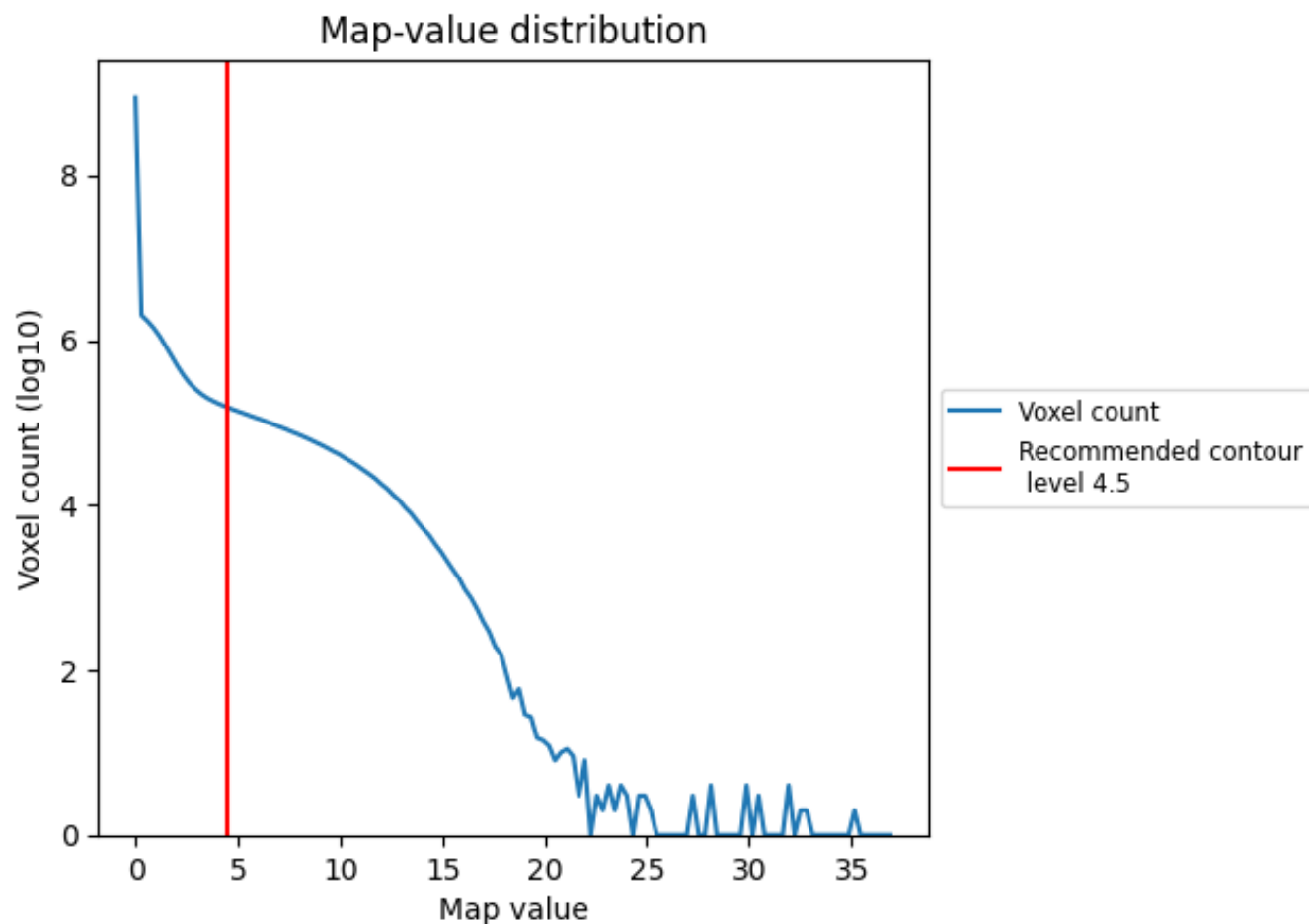
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

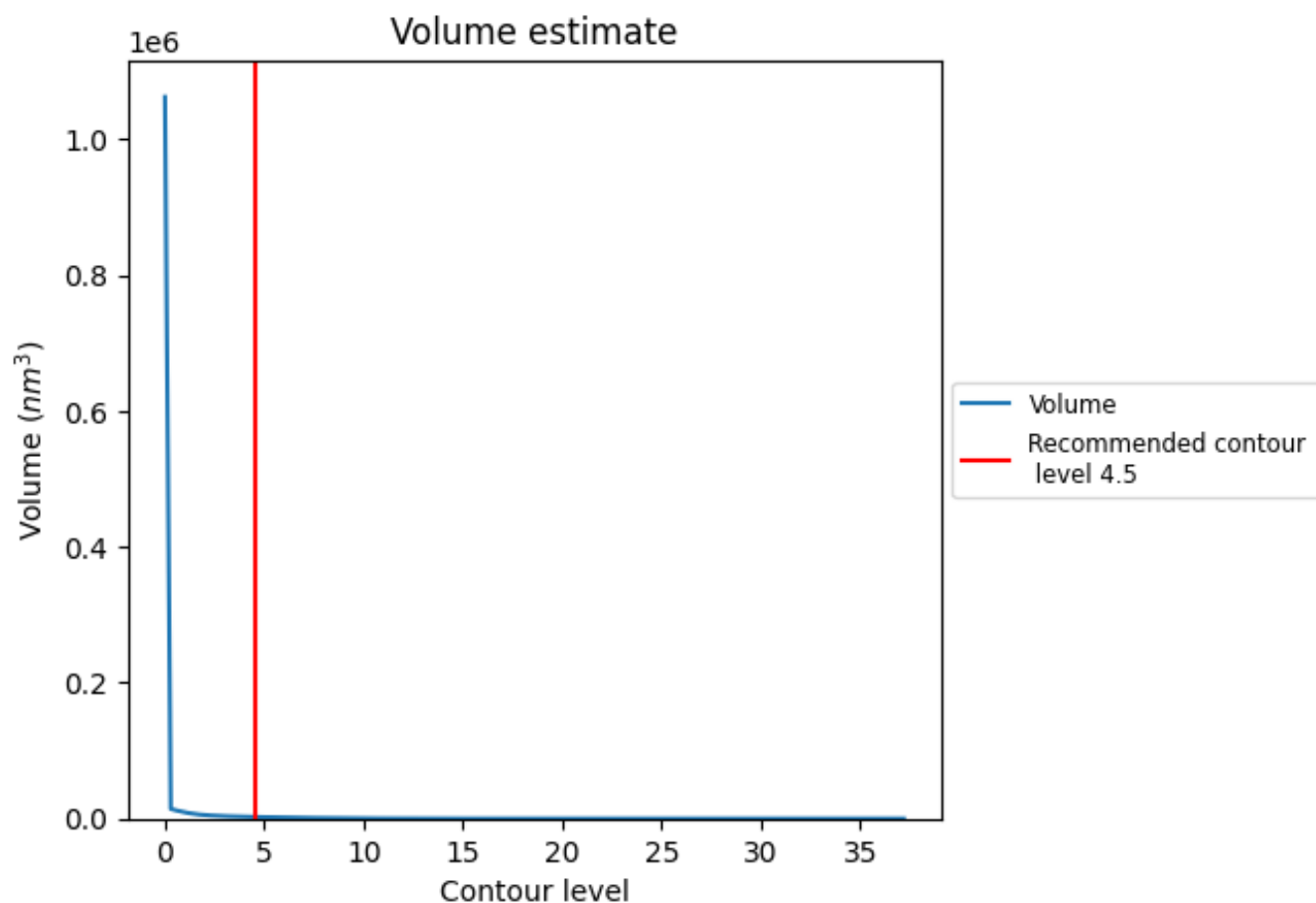
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

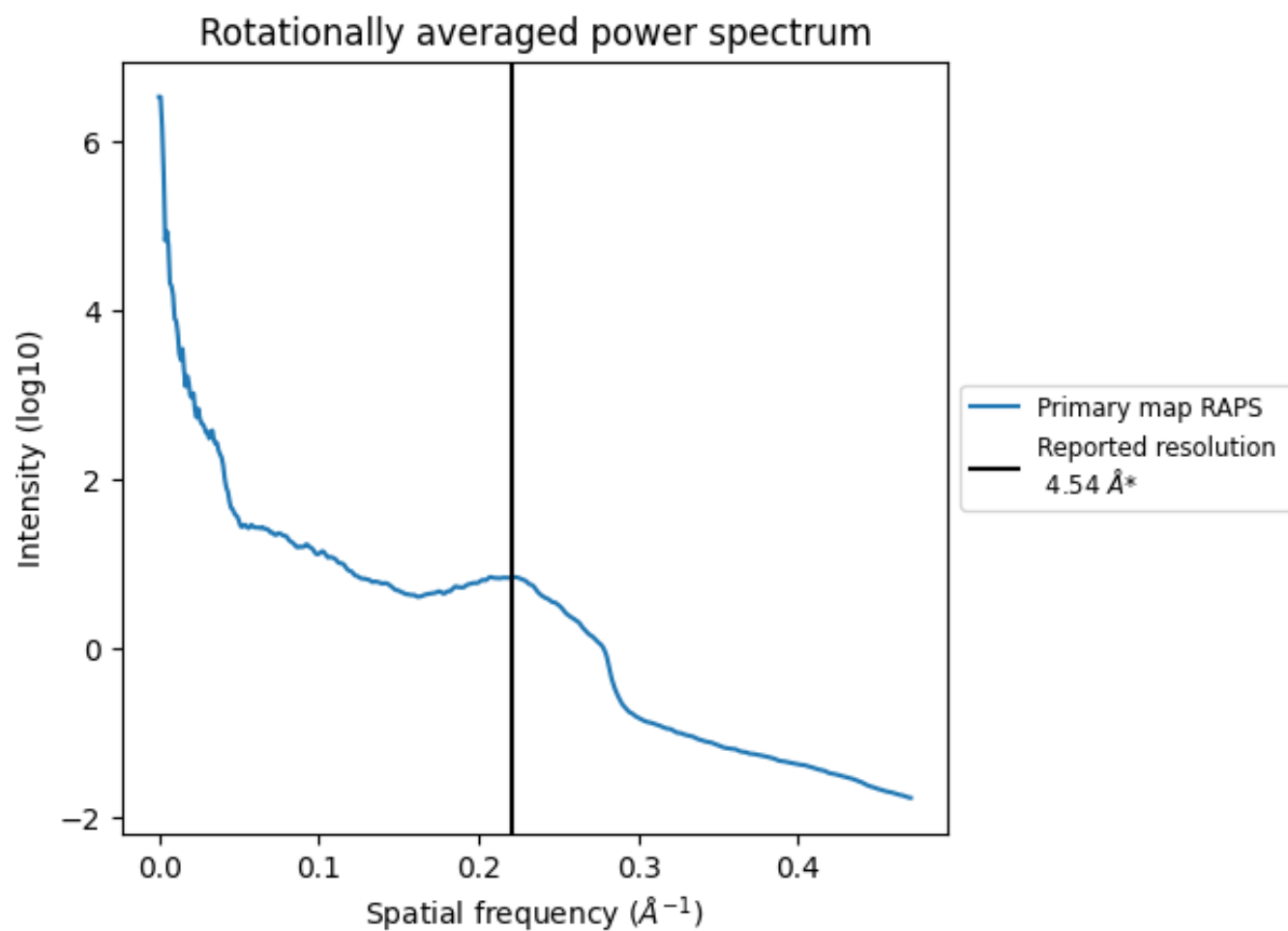
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2436 nm³; this corresponds to an approximate mass of 2201 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ

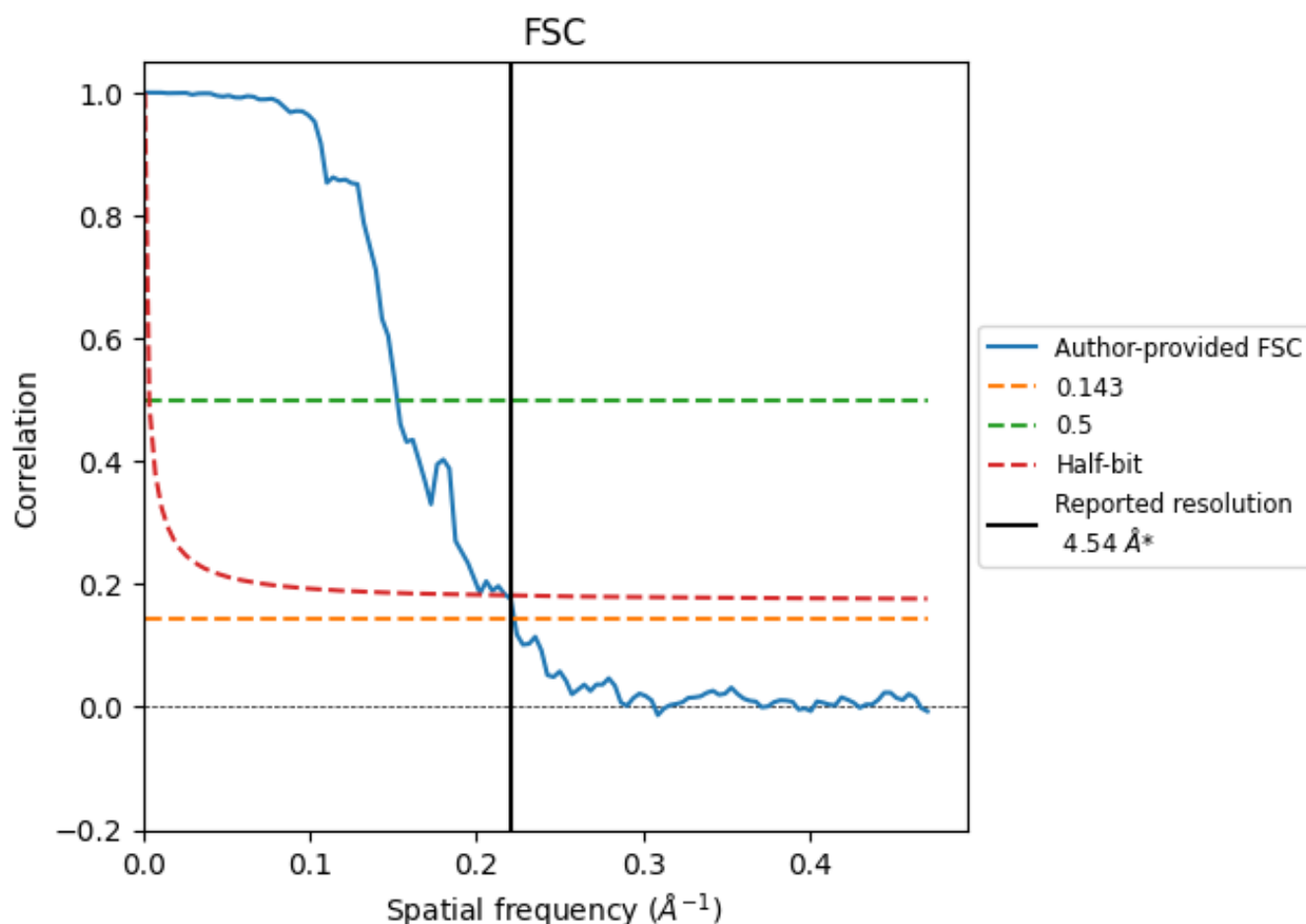


*Reported resolution corresponds to spatial frequency of 0.220 Å⁻¹

8 Fourier-Shell correlation [i](#)

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 [i](#)



*Reported resolution corresponds to spatial frequency of 0.220 Å⁻¹

8.2 Resolution estimates [i](#)

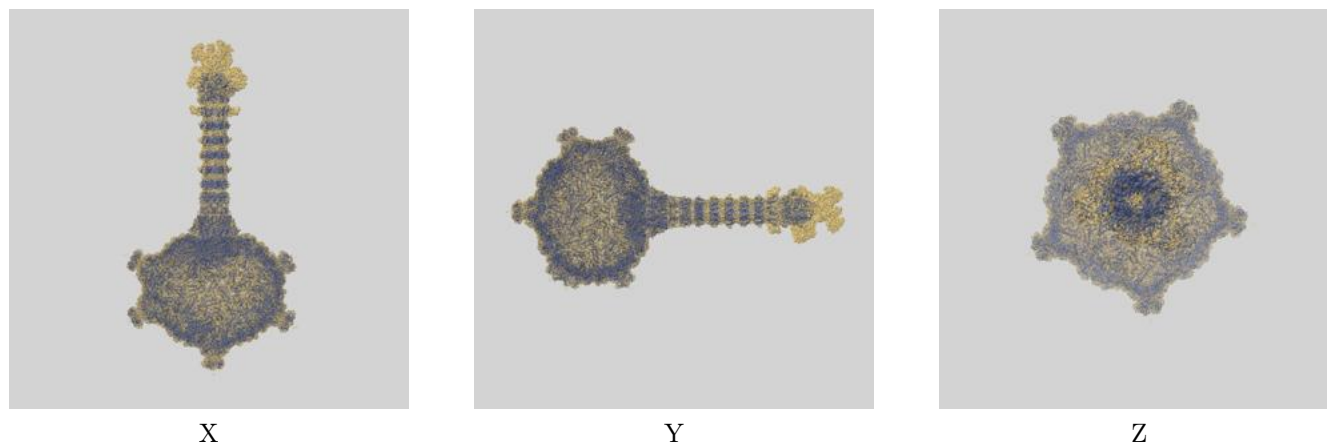
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.54	-	-
Author-provided FSC curve	4.49	6.56	4.59
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

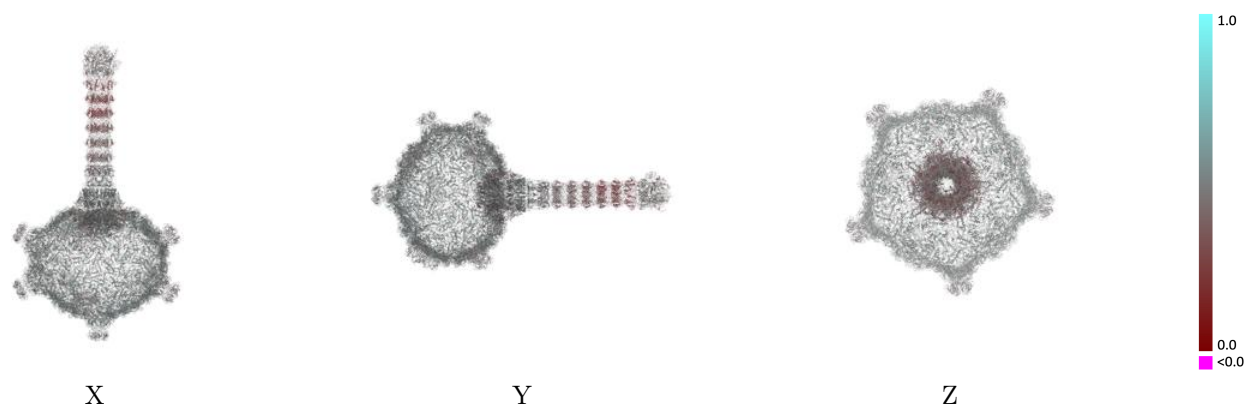
This section contains information regarding the fit between EMDB map EMD-10443 and PDB model 6TBA. Per-residue inclusion information can be found in section [3](#) on page [31](#).

9.1 Map-model overlay [i](#)



The images above show the 3D surface view of the map at the recommended contour level 4.5 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)

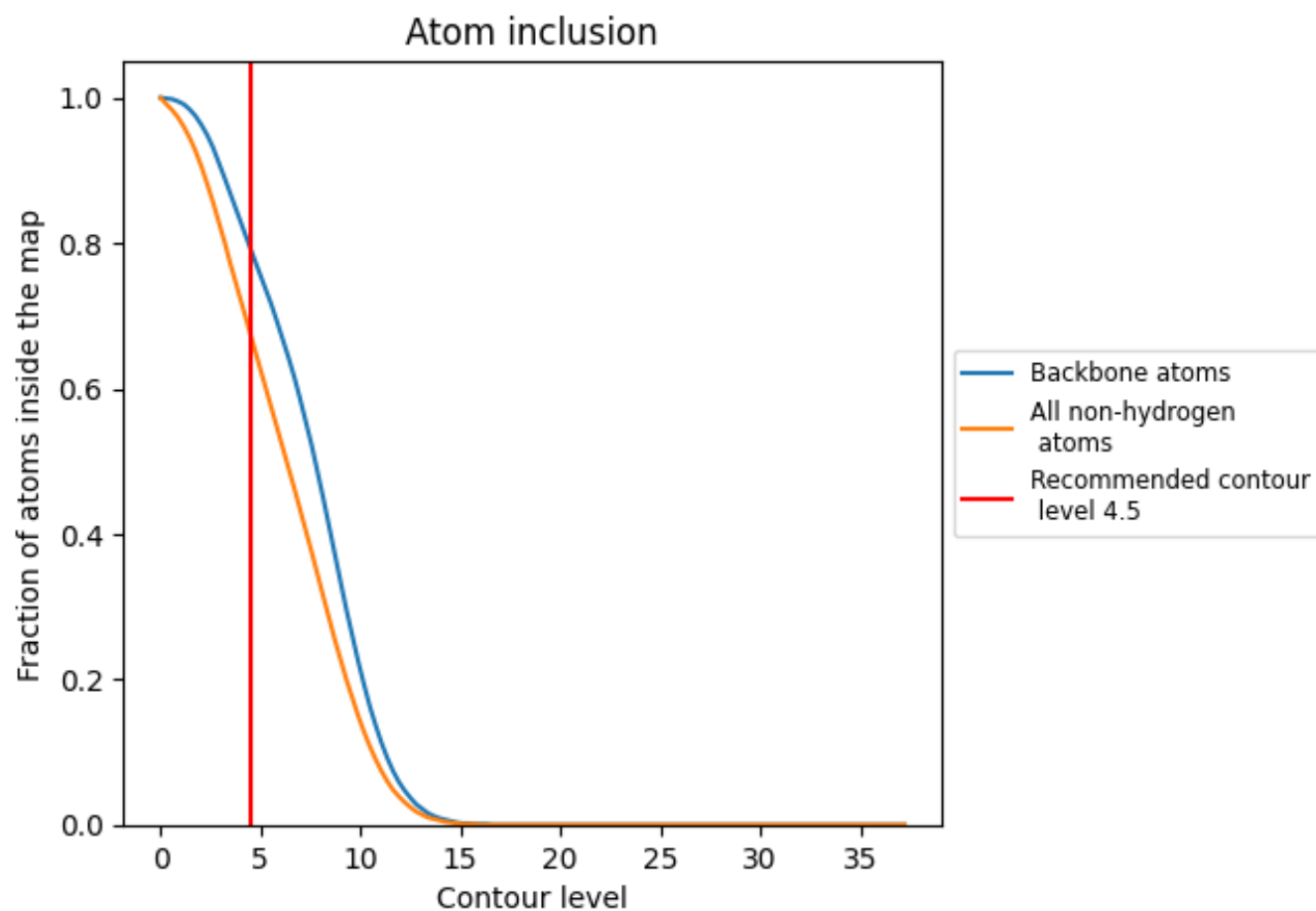


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)

This section was not generated.

9.4 Atom inclusion ⓘ



At the recommended contour level, 79% of all backbone atoms, 67% 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 (4.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6740	 0.4720
1A	 0.5900	 0.4690
1B	 0.5820	 0.4650
1C	 0.5760	 0.4640
1D	 0.5670	 0.4590
1E	 0.5550	 0.4510
1F	 0.5620	 0.4540
1G	 0.5580	 0.4480
1H	 0.5660	 0.4570
1I	 0.5630	 0.4550
1J	 0.5530	 0.4600
1K	 0.5580	 0.4660
1L	 0.5670	 0.4630
2A	 0.6070	 0.4800
2B	 0.6190	 0.4820
2C	 0.6260	 0.4780
2D	 0.6130	 0.4730
2E	 0.6210	 0.4760
2F	 0.5930	 0.4720
2G	 0.5890	 0.4700
2H	 0.5830	 0.4700
2I	 0.5990	 0.4730
2J	 0.6200	 0.4750
2K	 0.6230	 0.4780
2L	 0.5990	 0.4750
3A	 0.6450	 0.5030
3B	 0.6640	 0.4980
3C	 0.6350	 0.4850
3D	 0.6420	 0.4770
3E	 0.6630	 0.4830
3F	 0.6580	 0.4940
4A	 0.6090	 0.4710
4B	 0.5980	 0.4430
4C	 0.5790	 0.4090
4D	 0.5770	 0.4050



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Chain	Atom inclusion	Q-score
4E	 0.6120	 0.4300
4F	 0.6210	 0.4590
50	 0.6280	 0.3020
51	 0.6360	 0.3070
52	 0.6240	 0.3030
53	 0.6320	 0.3080
5A	 0.5030	 0.4340
5B	 0.4800	 0.4130
5C	 0.4900	 0.3650
5D	 0.4730	 0.3460
5E	 0.4460	 0.3780
5F	 0.4970	 0.4170
5G	 0.7870	 0.3970
5H	 0.7840	 0.3930
5I	 0.7780	 0.3880
5J	 0.7660	 0.3890
5K	 0.7830	 0.3870
5L	 0.7770	 0.3890
5M	 0.7830	 0.3960
5N	 0.7650	 0.3780
5O	 0.7550	 0.3400
5P	 0.7410	 0.3230
5Q	 0.7360	 0.3410
5R	 0.7740	 0.3790
5S	 0.7420	 0.3630
5T	 0.7230	 0.3220
5U	 0.6950	 0.2530
5V	 0.6560	 0.2150
5W	 0.6840	 0.2460
5X	 0.7180	 0.3260
5Y	 0.6260	 0.3010
5Z	 0.6370	 0.3010
6A	 0.7240	 0.3420
6B	 0.7210	 0.3480
6C	 0.7210	 0.3410
6D	 0.7180	 0.3480
6E	 0.7180	 0.3420
6F	 0.7230	 0.3480
7A	 0.7960	 0.4420
7B	 0.8000	 0.4440
7C	 0.7920	 0.4390
8A	 0.7600	 0.4460

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Chain	Atom inclusion	Q-score
8B	 0.7560	 0.4430
8C	 0.7580	 0.4460
A1	 0.6670	 0.4560
A2	 0.5800	 0.4560
A3	 0.5300	 0.4390
A4	 0.7360	 0.5020
A5	 0.6250	 0.4590
A6	 0.6620	 0.4500
A7	 0.5810	 0.4590
A8	 0.5350	 0.4380
A9	 0.7300	 0.4990
AA	 0.6230	 0.4570
AB	 0.6630	 0.4550
AC	 0.5810	 0.4570
AD	 0.5310	 0.4390
AE	 0.7350	 0.4980
AF	 0.6230	 0.4560
AG	 0.6680	 0.4580
AH	 0.5850	 0.4600
AI	 0.5220	 0.4380
AJ	 0.7320	 0.4960
AK	 0.6240	 0.4560
AL	 0.6630	 0.4560
AM	 0.5830	 0.4550
AN	 0.5410	 0.4360
AO	 0.7350	 0.4980
AP	 0.6250	 0.4590
B2	 0.5590	 0.4570
B3	 0.5520	 0.4360
B4	 0.7320	 0.5010
B5	 0.6490	 0.4750
B7	 0.5600	 0.4540
B8	 0.5520	 0.4380
B9	 0.7340	 0.5000
BA	 0.6440	 0.4720
BC	 0.5570	 0.4540
BD	 0.5560	 0.4360
BE	 0.7320	 0.5000
BF	 0.6430	 0.4700
BH	 0.5670	 0.4540
BI	 0.5520	 0.4380
BJ	 0.7290	 0.4980

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Chain	Atom inclusion	Q-score
BK	 0.6500	 0.4740
BM	 0.5570	 0.4560
BN	 0.5490	 0.4350
BO	 0.7330	 0.4980
BP	 0.6520	 0.4750
C2	 0.5440	 0.4400
C3	 0.5560	 0.4470
C4	 0.7330	 0.4960
C5	 0.7100	 0.4950
C7	 0.5470	 0.4400
C8	 0.5410	 0.4450
C9	 0.7330	 0.4950
CA	 0.7080	 0.4930
CC	 0.5570	 0.4410
CD	 0.5540	 0.4460
CE	 0.7320	 0.4960
CF	 0.7120	 0.4920
CH	 0.5460	 0.4370
CI	 0.5570	 0.4460
CJ	 0.7350	 0.4950
CK	 0.7090	 0.4930
CM	 0.5460	 0.4390
CN	 0.5570	 0.4480
CO	 0.7300	 0.4950
CP	 0.7090	 0.4910
D2	 0.5590	 0.4620
D3	 0.5540	 0.4440
D4	 0.7120	 0.5000
D7	 0.5670	 0.4650
D8	 0.5520	 0.4410
D9	 0.7110	 0.4980
DC	 0.5600	 0.4640
DD	 0.5570	 0.4430
DE	 0.7130	 0.4970
DH	 0.5570	 0.4630
DI	 0.5510	 0.4440
DJ	 0.7140	 0.4960
DM	 0.5560	 0.4600
DN	 0.5460	 0.4450
DO	 0.7110	 0.4970
E2	 0.5470	 0.4480
E3	 0.5670	 0.4580

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Chain	Atom inclusion	Q-score
E4	 0.7220	 0.5020
E7	 0.5430	 0.4520
E8	 0.5620	 0.4600
E9	 0.7230	 0.5010
EC	 0.5470	 0.4540
ED	 0.5670	 0.4600
EE	 0.7180	 0.5000
EH	 0.5430	 0.4540
EI	 0.5640	 0.4620
EJ	 0.7200	 0.5010
EM	 0.5440	 0.4480
EN	 0.5680	 0.4610
EO	 0.7160	 0.5020
F2	 0.3390	 0.3790
F3	 0.2740	 0.3470
F4	 0.7180	 0.5010
F7	 0.3710	 0.3790
F8	 0.2900	 0.3370
F9	 0.7150	 0.4980
FC	 0.3550	 0.3960
FD	 0.2740	 0.3370
FE	 0.7170	 0.4980
FH	 0.3390	 0.3870
FI	 0.3060	 0.3290
FJ	 0.7150	 0.4980
FM	 0.3550	 0.3890
FN	 0.2900	 0.3260
FO	 0.7180	 0.4970
G4	 0.7300	 0.5050
G9	 0.7270	 0.5030
GE	 0.7270	 0.5020
GJ	 0.7250	 0.5020
GO	 0.7240	 0.5010
H4	 0.6940	 0.4920
H9	 0.6960	 0.4880
HE	 0.6960	 0.4900
HJ	 0.6990	 0.4890
HO	 0.6980	 0.4880
I4	 0.6780	 0.4910
I9	 0.6770	 0.4910
IE	 0.6760	 0.4910
IJ	 0.6800	 0.4910

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Chain	Atom inclusion	Q-score
IO	 0.6750	 0.4900
J4	 0.6870	 0.4940
J9	 0.6830	 0.4910
JE	 0.6850	 0.4940
JJ	 0.6880	 0.4920
JO	 0.6830	 0.4930
K4	 0.6820	 0.4900
K9	 0.6820	 0.4890
KE	 0.6850	 0.4880
KJ	 0.6830	 0.4880
KO	 0.6830	 0.4900
L4	 0.6960	 0.4980
L9	 0.6930	 0.4960
LE	 0.6930	 0.4950
LJ	 0.6910	 0.4970
LO	 0.6860	 0.4980
M4	 0.7030	 0.4970
M9	 0.6960	 0.4960
ME	 0.7010	 0.4940
MJ	 0.6990	 0.4950
MO	 0.6960	 0.4950
N4	 0.7060	 0.4910
N9	 0.7010	 0.4900
NE	 0.7040	 0.4890
NJ	 0.7040	 0.4890
NO	 0.6980	 0.4880
O4	 0.7130	 0.4970
O9	 0.6990	 0.4950
OE	 0.7040	 0.4950
OJ	 0.7030	 0.4940
OO	 0.7030	 0.4930
P4	 0.7030	 0.4950
P9	 0.6980	 0.4930
PE	 0.6990	 0.4920
PJ	 0.6980	 0.4910
PO	 0.6950	 0.4930
Q4	 0.7040	 0.4910
Q9	 0.7030	 0.4880
QE	 0.6990	 0.4890
QJ	 0.7020	 0.4850
QO	 0.6980	 0.4890
R4	 0.7050	 0.4940

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Chain	Atom inclusion	Q-score
R9	 0.6980	 0.4930
RE	 0.7010	 0.4930
RJ	 0.7000	 0.4940
RO	 0.7010	 0.4930
S4	 0.6810	 0.4890
S9	 0.6800	 0.4860
SE	 0.6770	 0.4830
SJ	 0.6830	 0.4860
SO	 0.6740	 0.4880
T4	 0.6850	 0.4900
T9	 0.6850	 0.4890
TE	 0.6800	 0.4890
TJ	 0.6830	 0.4880
TO	 0.6800	 0.4880
U4	 0.6780	 0.5010
U9	 0.6800	 0.4980
UE	 0.6790	 0.4990
UJ	 0.6800	 0.5000
UO	 0.6800	 0.4980
V4	 0.6890	 0.4900
V9	 0.6870	 0.4850
VE	 0.6910	 0.4850
VJ	 0.6860	 0.4850
VO	 0.6870	 0.4870
W4	 0.6840	 0.4860
W9	 0.6810	 0.4820
WE	 0.6820	 0.4820
WJ	 0.6860	 0.4820
WO	 0.6770	 0.4830
X4	 0.7000	 0.4990
X9	 0.7020	 0.4970
XE	 0.6960	 0.4980
XJ	 0.6960	 0.4980
XO	 0.6930	 0.4970
Y4	 0.7140	 0.4990
Y9	 0.7090	 0.4960
YE	 0.7120	 0.4940
YJ	 0.7110	 0.4950
YO	 0.7090	 0.4970
Z4	 0.7070	 0.4970
Z9	 0.7060	 0.4930
ZE	 0.7040	 0.4950

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Chain	Atom inclusion	Q-score
ZJ	0.7050	0.4970
ZO	0.7040	0.4950