



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 09:09 AM UTC

PDB ID : 4V4U / pdb_00004v4u
EMDB ID : EMD-1113
Title : The quasi-atomic model of Human Adenovirus type 5 capsid
Authors : Fabry, C.M.S.; Rosa-Calatrava, M.; Conway, J.F.; Zubieta, C.; Cusack, S.;
Ruigrok, R.W.H.; Schoehn, G.
Deposited on : 2005-03-03
Resolution : 10.00 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

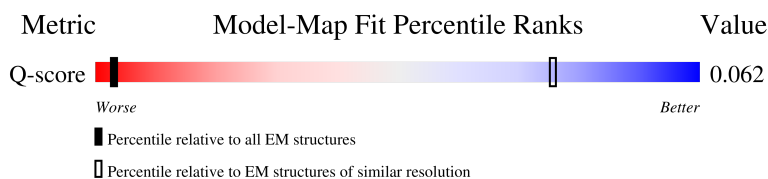
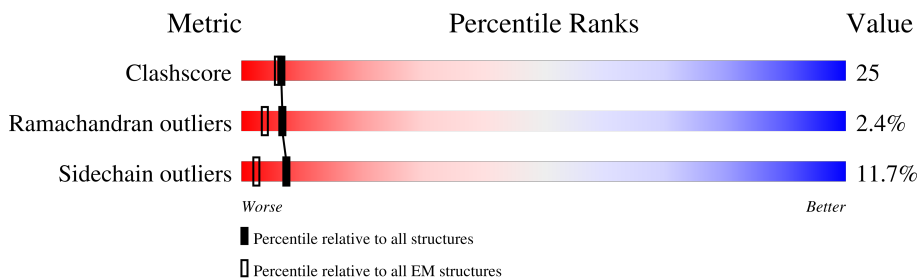
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 10.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	53 (15.00 - 16.00)

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	A	523	
1	B	523	
1	C	523	
1	D	523	

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Mol	Chain	Length	Quality of chain
1	E	523	
2	S	10	
2	T	10	
2	U	10	
2	V	10	
2	W	10	
3	F	951	
3	G	951	
3	H	951	
3	I	951	
3	J	951	
3	K	951	
3	L	951	
3	M	951	
3	N	951	
3	O	951	
3	P	951	
3	Q	951	

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 101329 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 PENTON PROTEIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	440	Total	C	N	O	S	0	0
			3519	2227	608	672	12		
1	B	440	Total	C	N	O	S	0	0
			3519	2227	608	672	12		
1	C	440	Total	C	N	O	S	0	0
			3519	2227	608	672	12		
1	D	440	Total	C	N	O	S	0	0
			3519	2227	608	672	12		
1	E	440	Total	C	N	O	S	0	0
			3519	2227	608	672	12		

- Molecule 2 is a protein called N-TERMINAL PEPTIDE OF FIBER PROTEIN.

Mol	Chain	Residues	Atoms				AltConf	Trace
2	S	10	Total	C	N	O	0	0
			86	58	11	17		
2	T	10	Total	C	N	O	0	0
			86	58	11	17		
2	U	10	Total	C	N	O	0	0
			86	58	11	17		
2	V	10	Total	C	N	O	0	0
			86	58	11	17		
2	W	10	Total	C	N	O	0	0
			86	58	11	17		

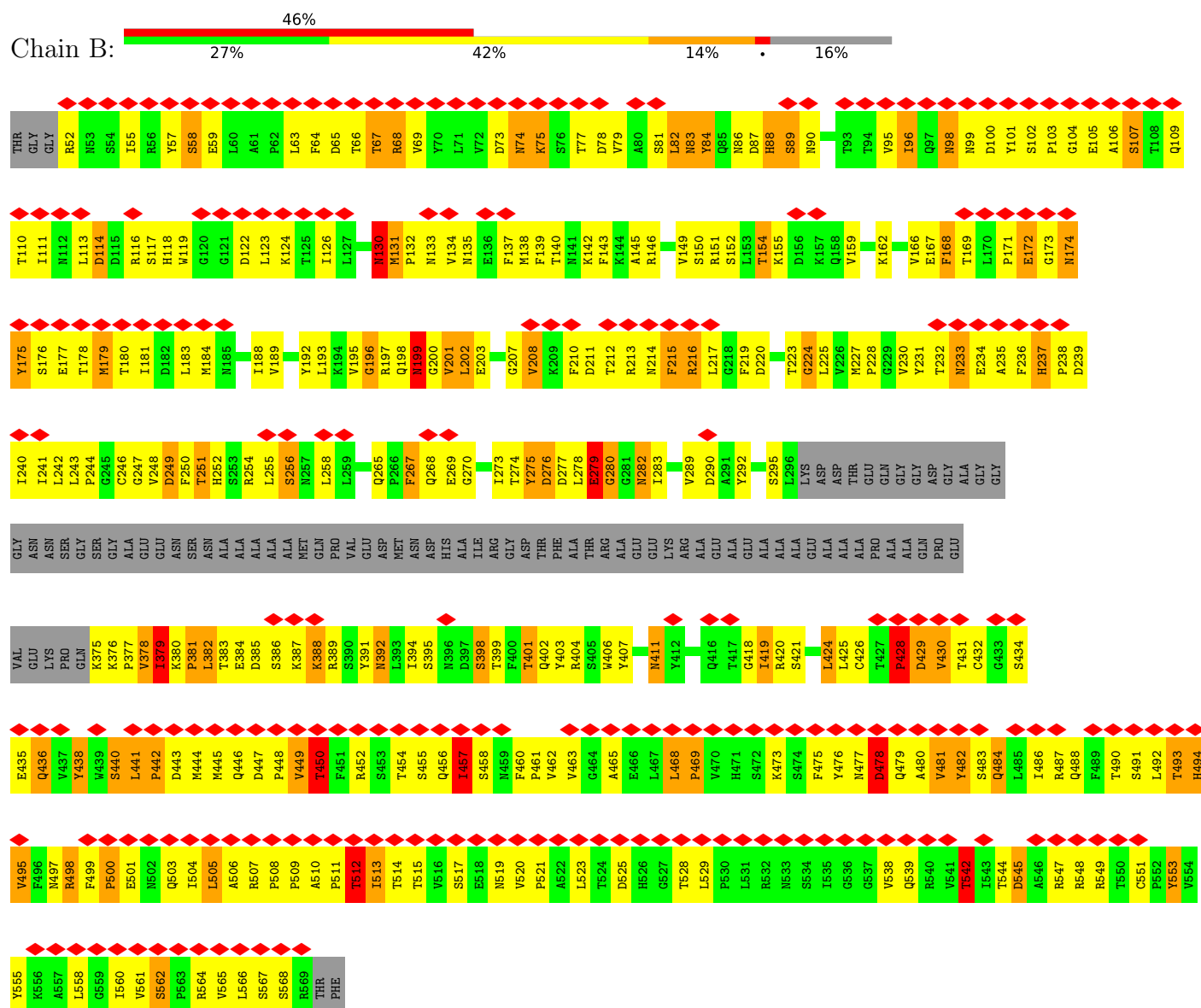
- Molecule 3 is a protein called HEXON PROTEIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	F	884	Total	C	N	O	S	0	0
			6942	4436	1172	1299	35		
3	G	884	Total	C	N	O	S	0	0
			6942	4436	1172	1299	35		
3	H	884	Total	C	N	O	S	0	0
			6942	4436	1172	1299	35		

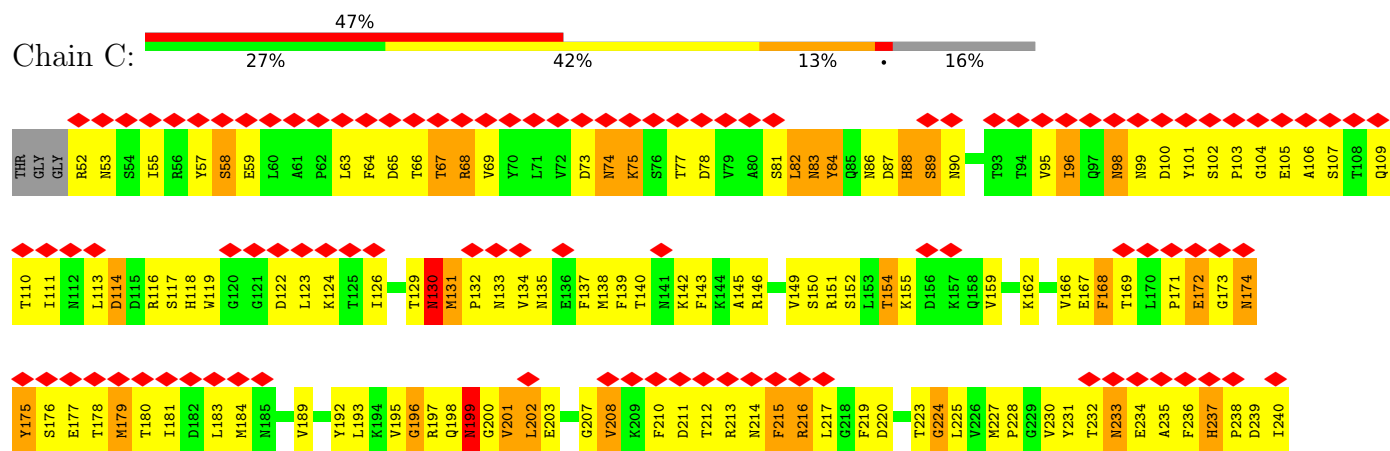
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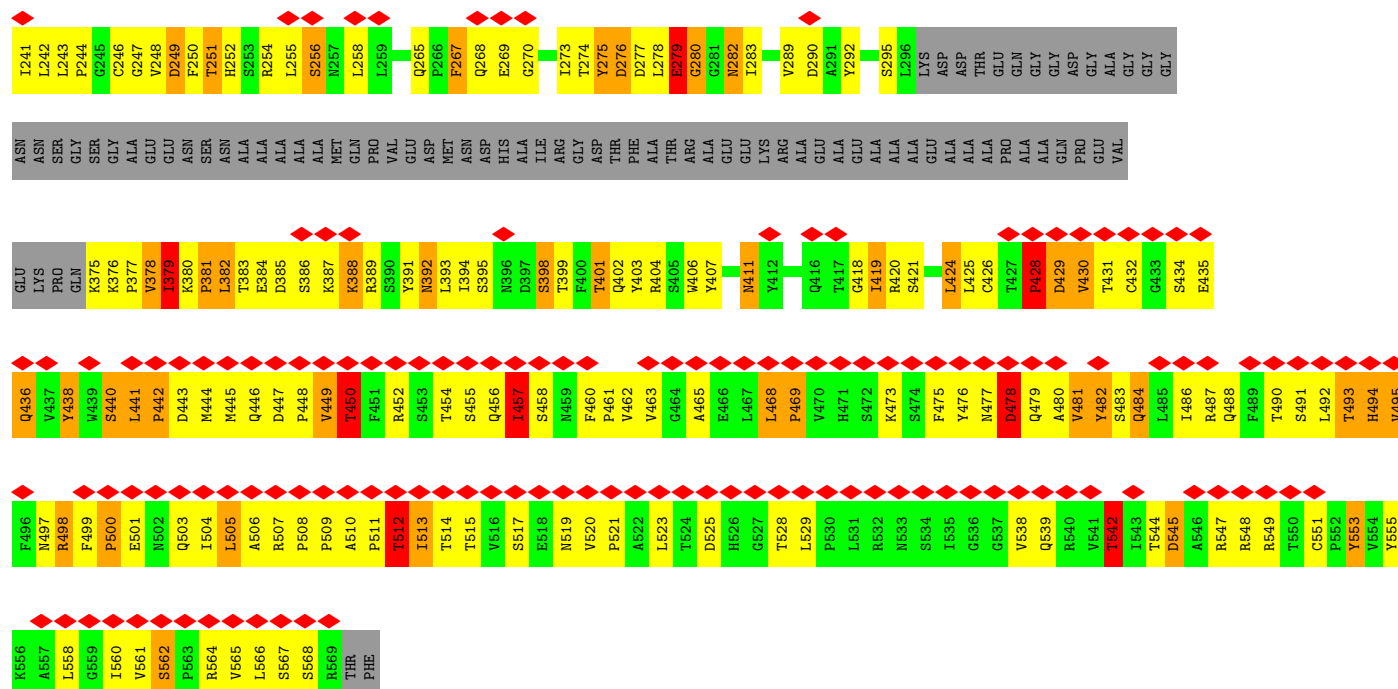
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Mol	Chain	Residues	Atoms					AltConf	Trace
3	I	884	Total 6942	C 4436	N 1172	O 1299	S 35	0	0
3	J	884	Total 6942	C 4436	N 1172	O 1299	S 35	0	0
3	K	884	Total 6942	C 4436	N 1172	O 1299	S 35	0	0
3	L	884	Total 6942	C 4436	N 1172	O 1299	S 35	0	0
3	M	884	Total 6942	C 4436	N 1172	O 1299	S 35	0	0
3	N	884	Total 6942	C 4436	N 1172	O 1299	S 35	0	0
3	O	884	Total 6942	C 4436	N 1172	O 1299	S 35	0	0
3	P	884	Total 6942	C 4436	N 1172	O 1299	S 35	0	0
3	Q	884	Total 6942	C 4436	N 1172	O 1299	S 35	0	0

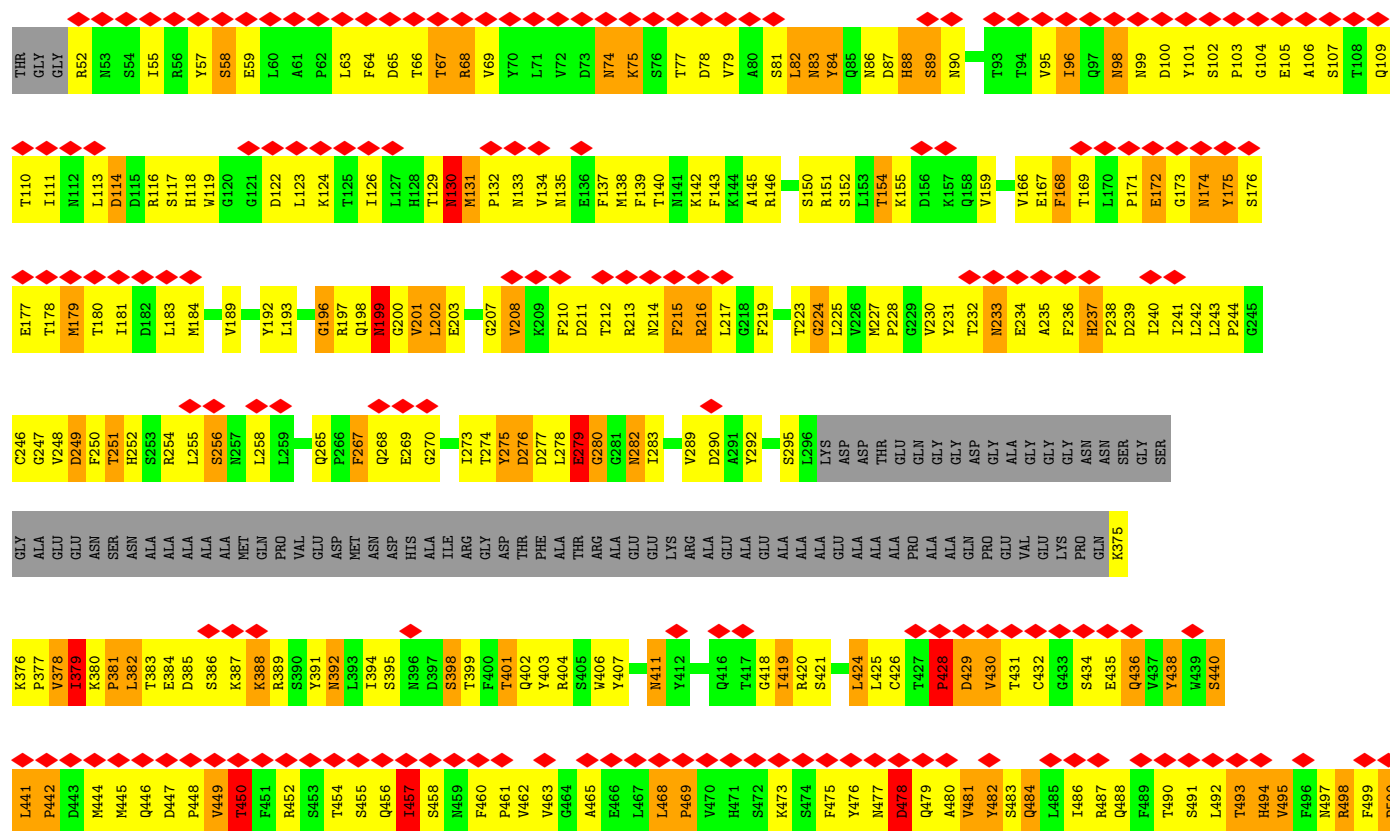


- Molecule 1: PENTON PROTEIN



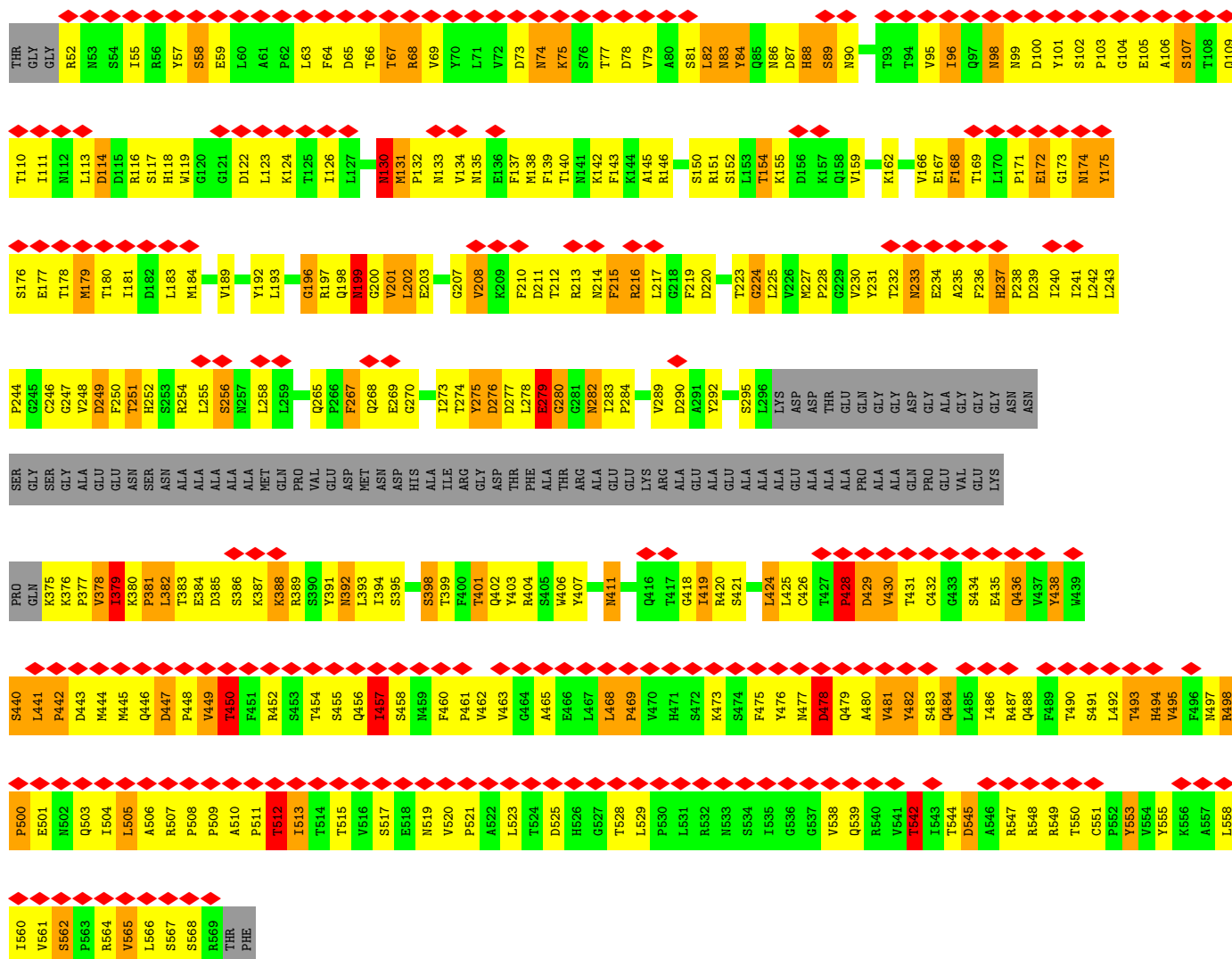


● Molecule 1: PENTON PROTEIN





• Molecule 1: PENTON PROTEIN



• Molecule 2: N-TERMINAL PEPTIDE OF FIBER PROTEIN



- Molecule 2: N-TERMINAL PEPTIDE OF FIBER PROTEIN



- Molecule 2: N-TERMINAL PEPTIDE OF FIBER PROTEIN



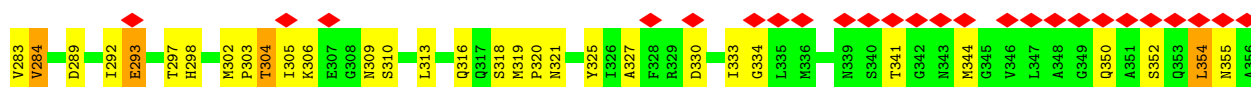
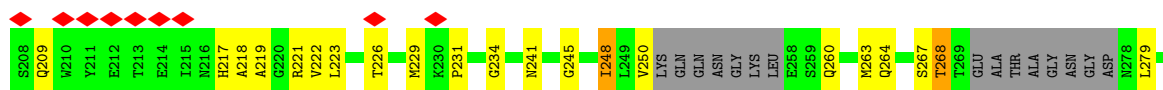
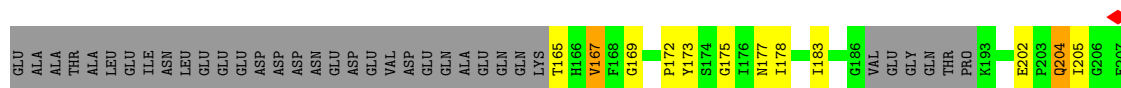
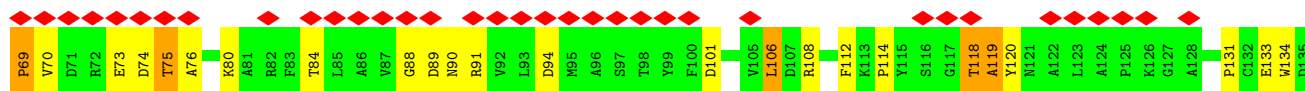
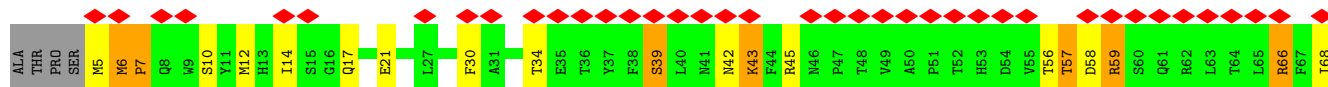
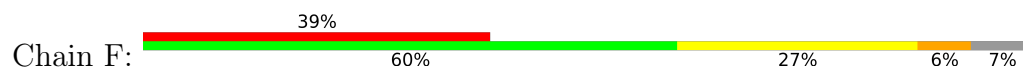
- Molecule 2: N-TERMINAL PEPTIDE OF FIBER PROTEIN

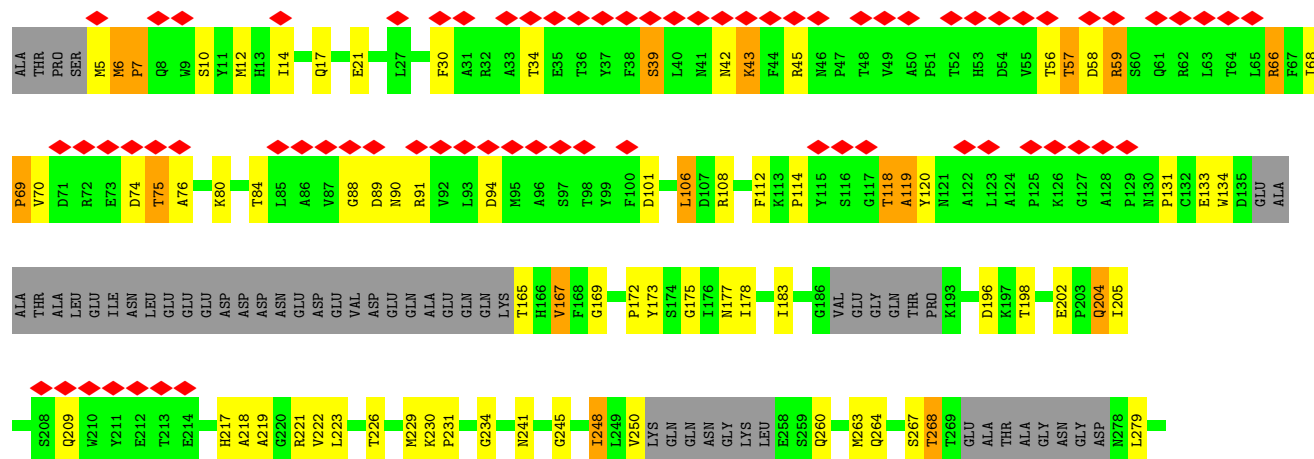


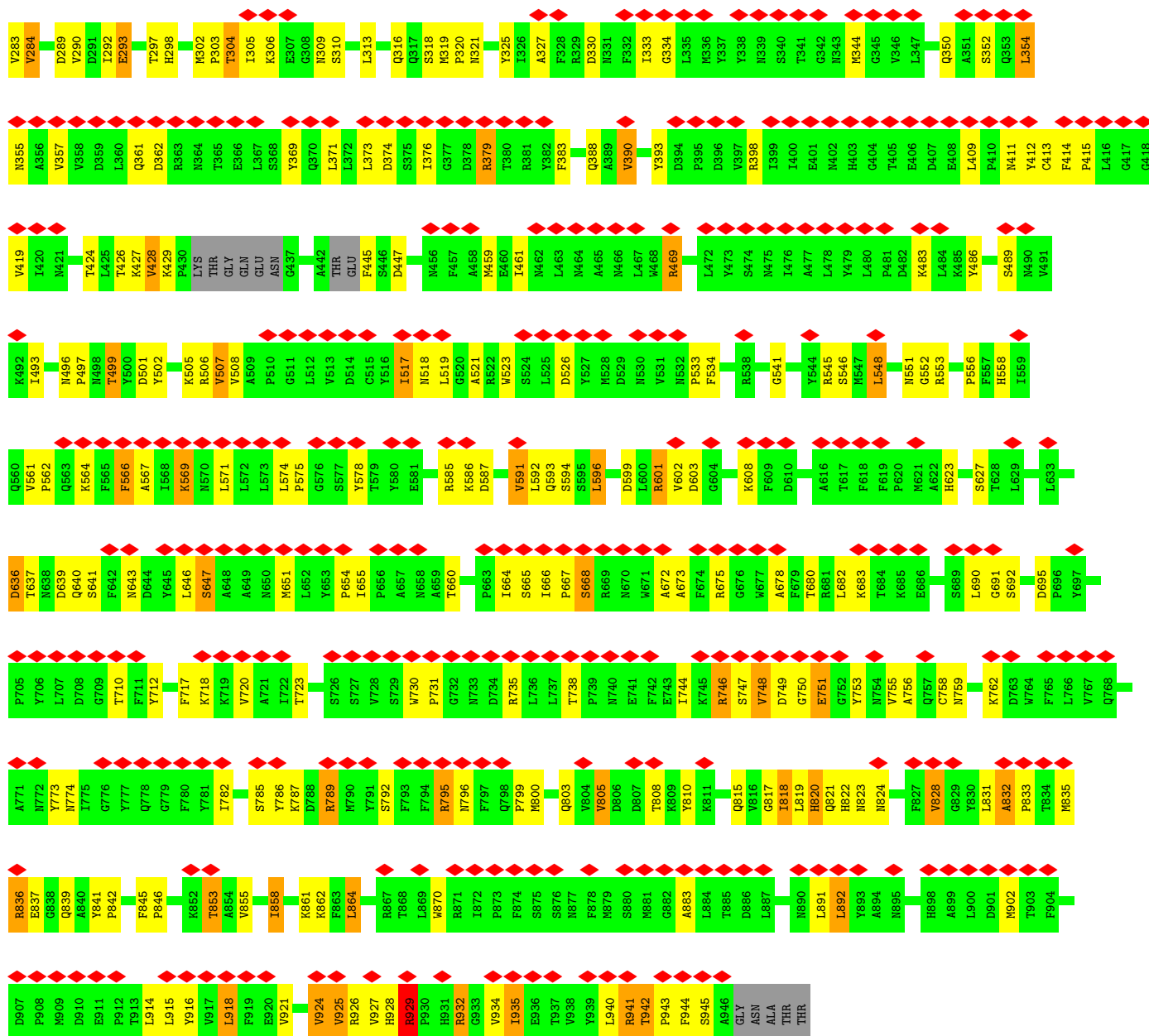
- Molecule 2: N-TERMINAL PEPTIDE OF FIBER PROTEIN



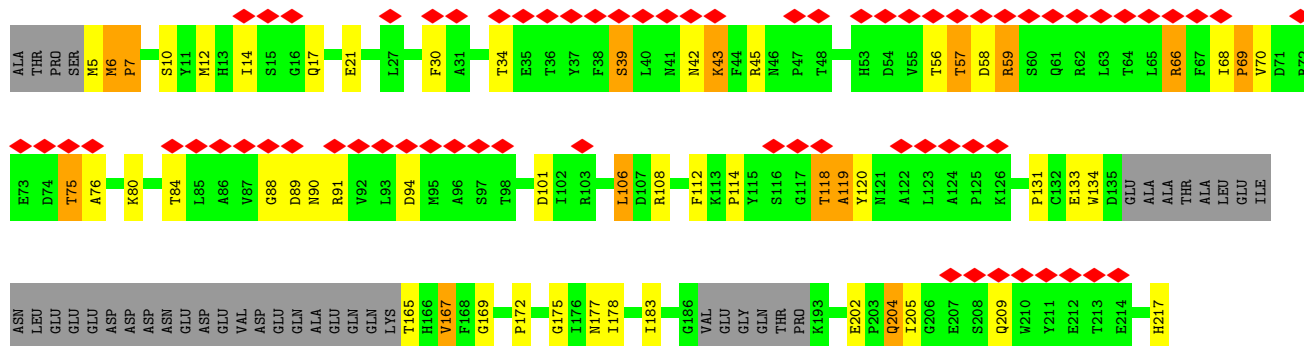
- Molecule 3: HEXON PROTEIN

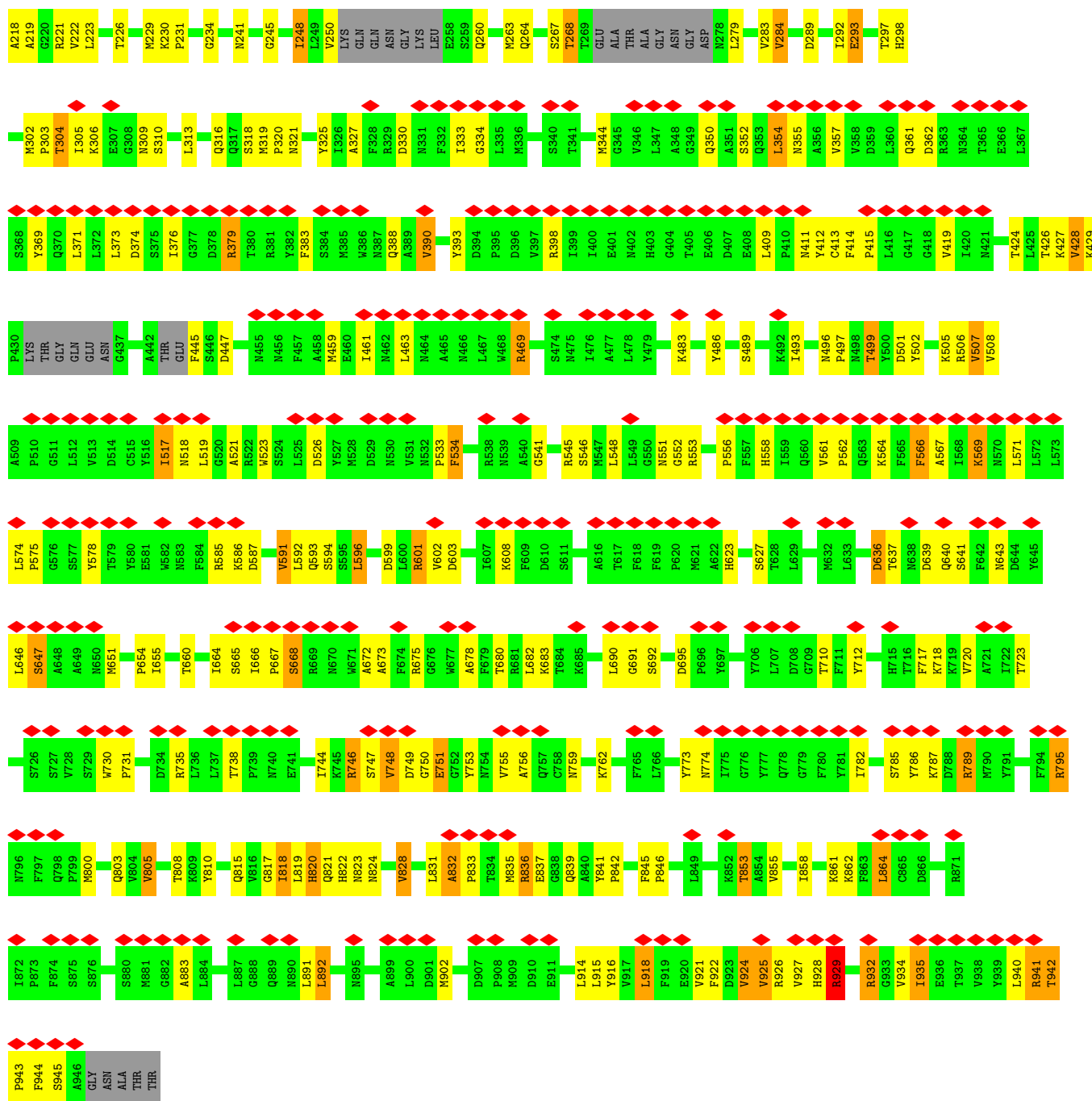




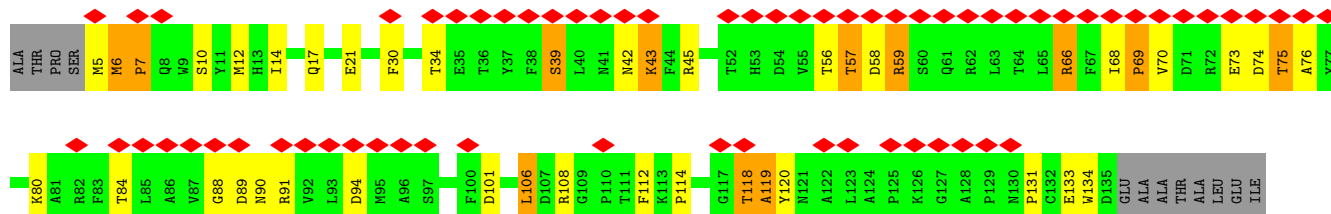


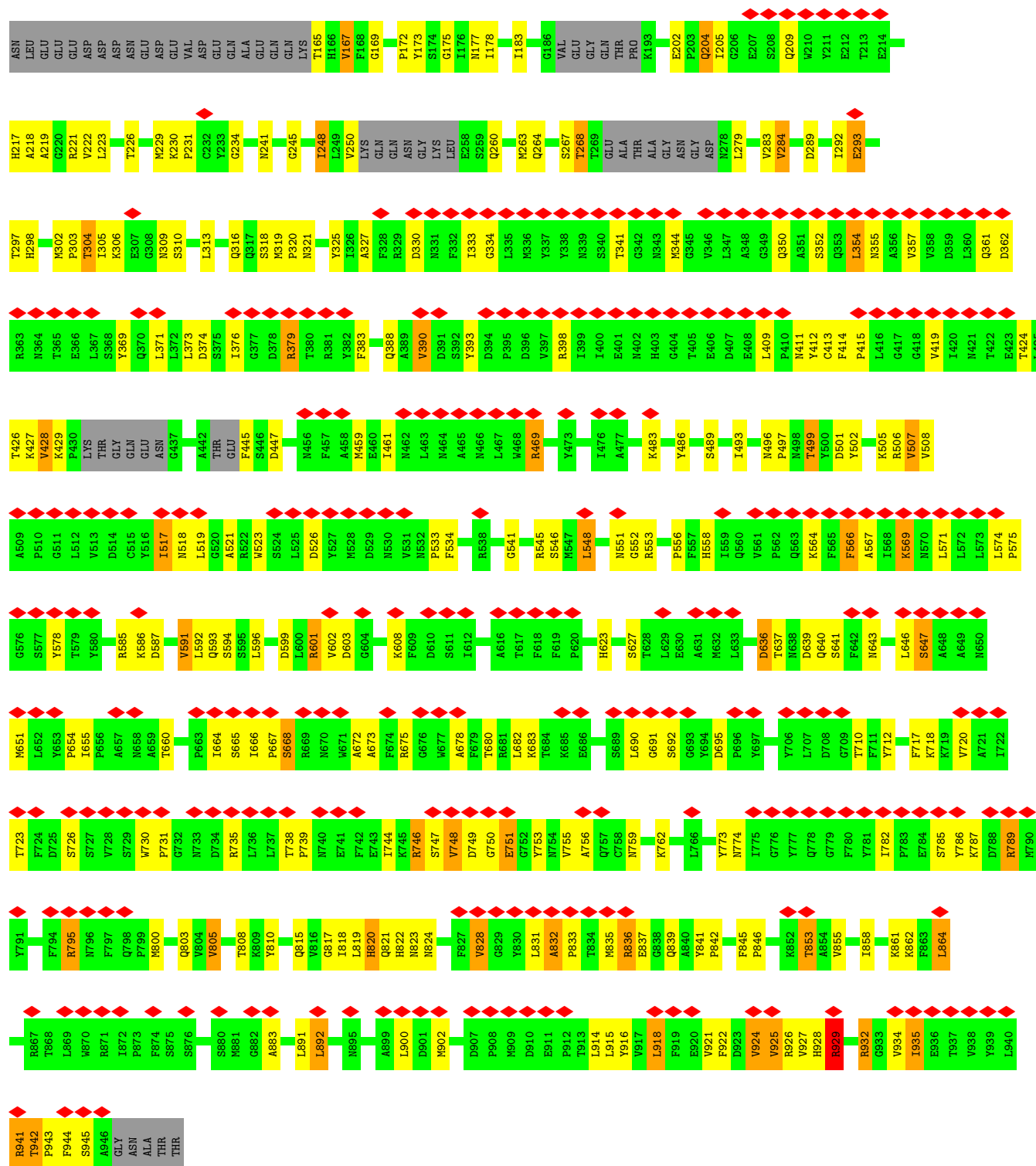
• Molecule 3: HEXON PROTEIN



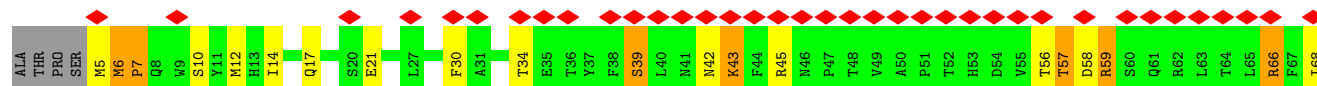
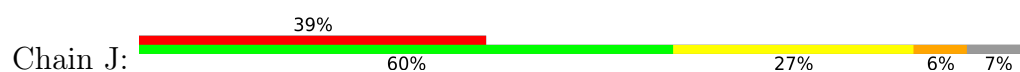


● Molecule 3: HEXON PROTEIN

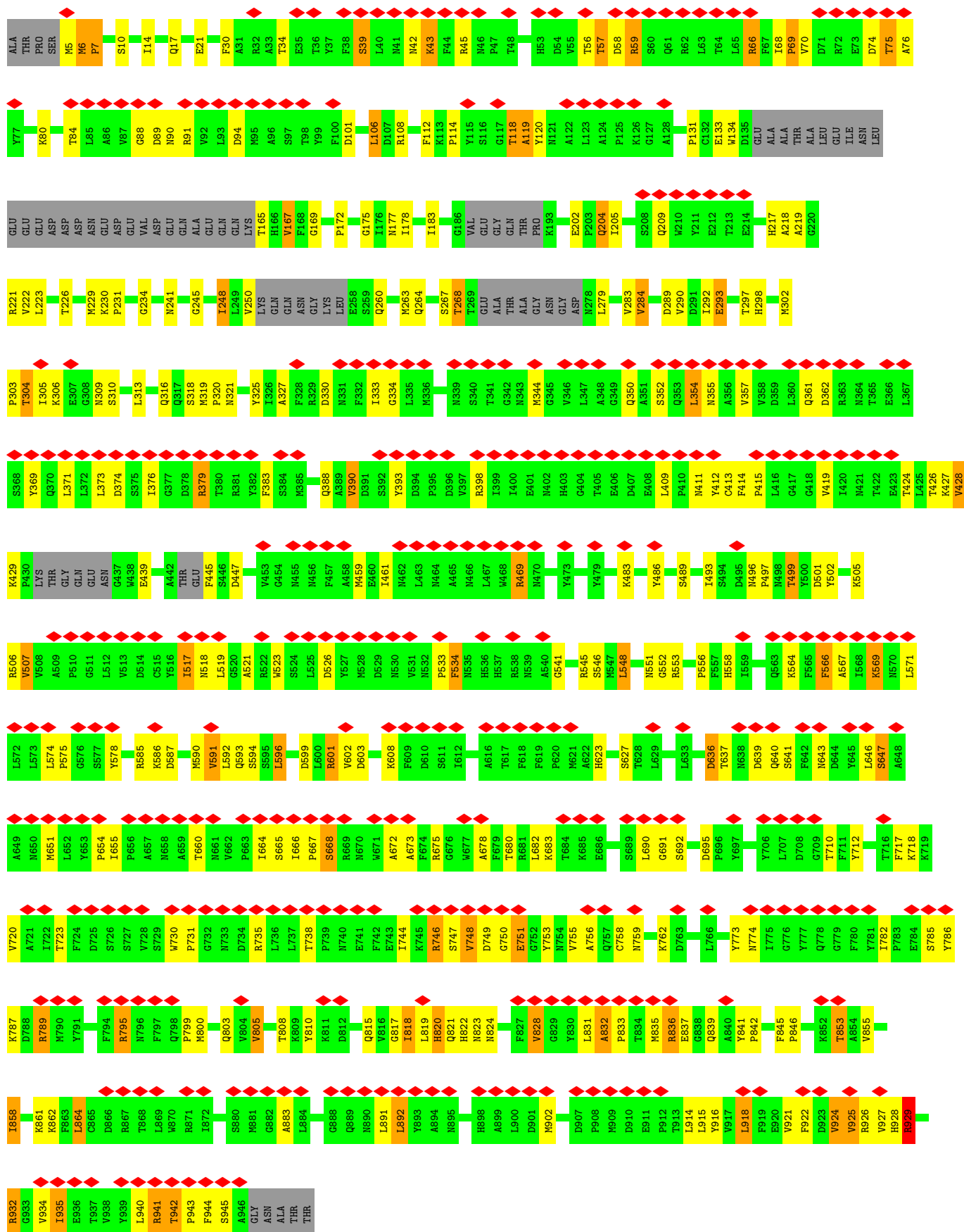




• Molecule 3: HEXON PROTEIN

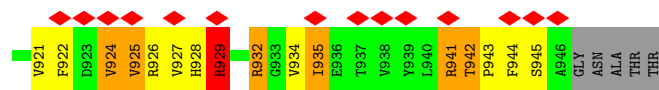






• Molecule 3: HEXON PROTEIN



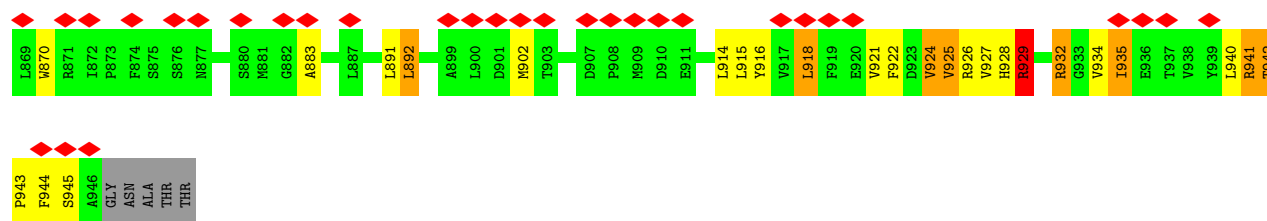


• Molecule 3: HEXON PROTEIN

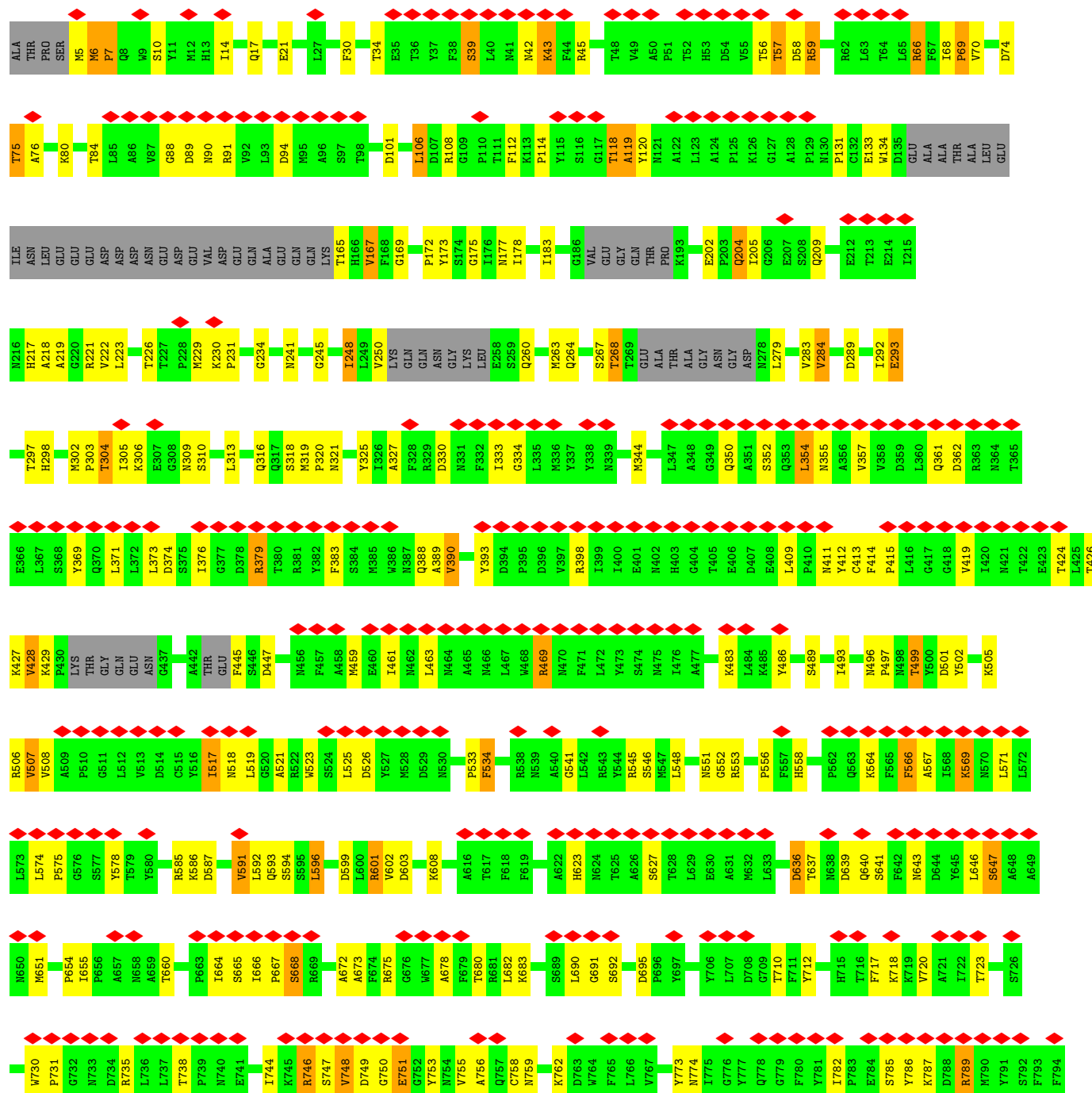


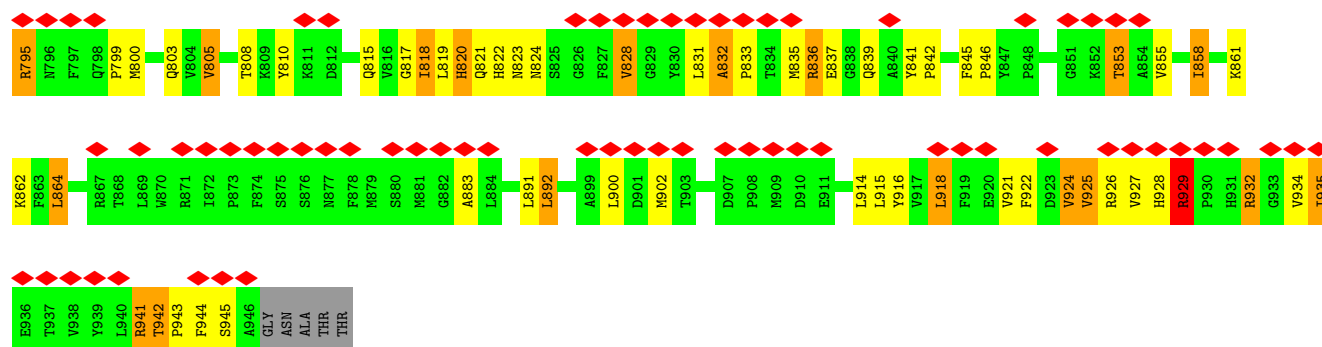
Chain M:



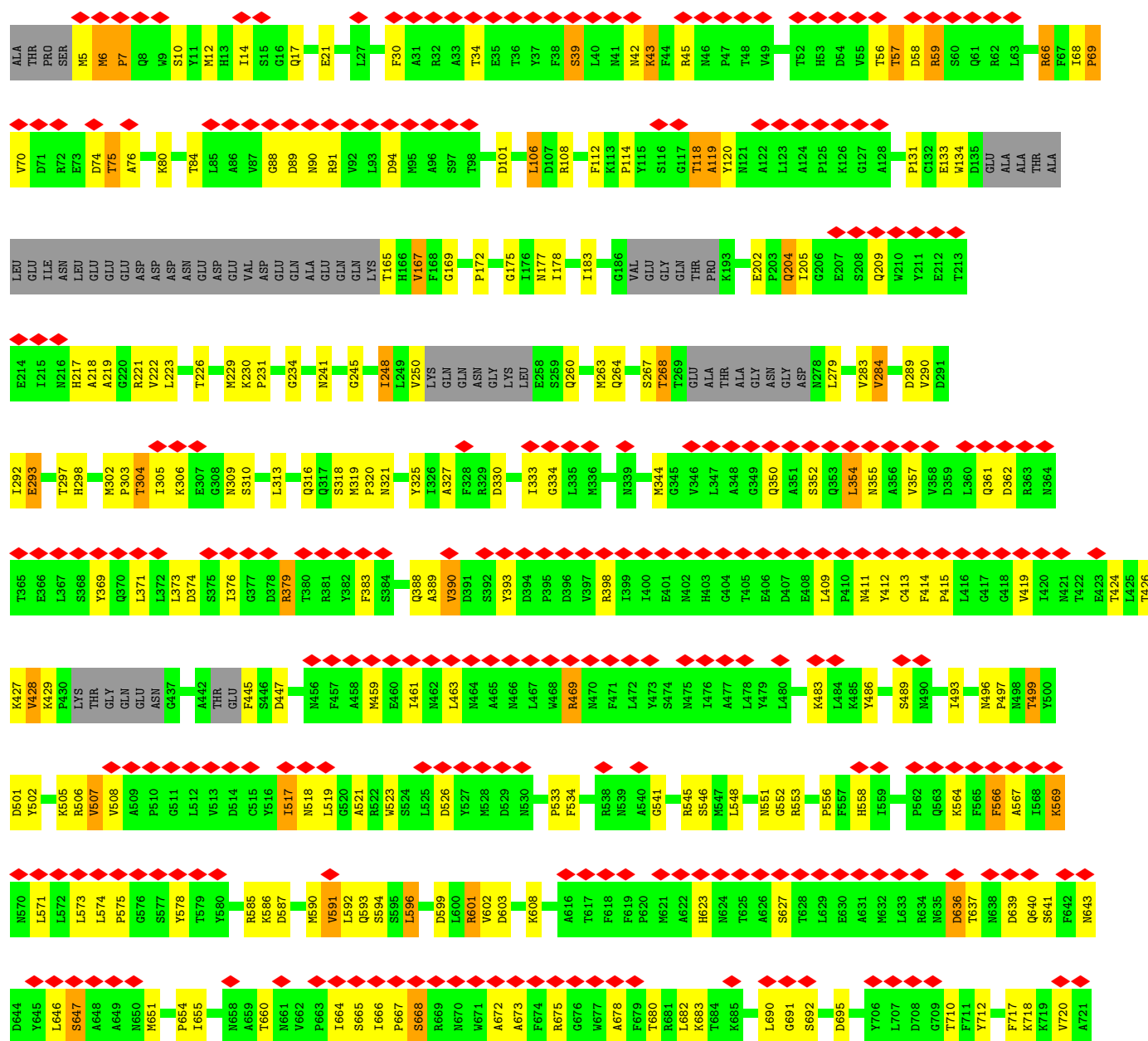
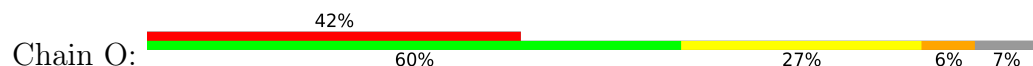


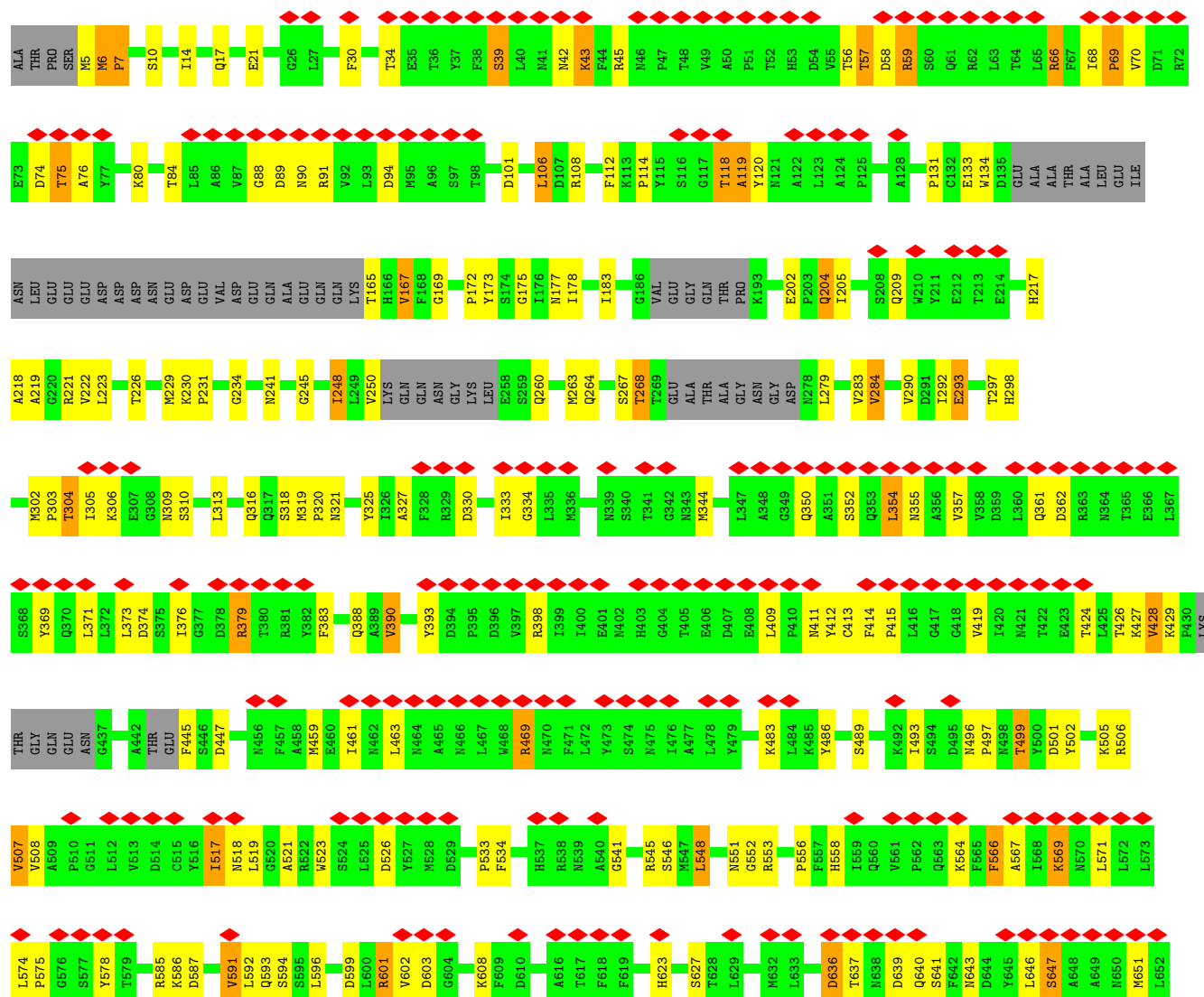
• Molecule 3: HEXON PROTEIN



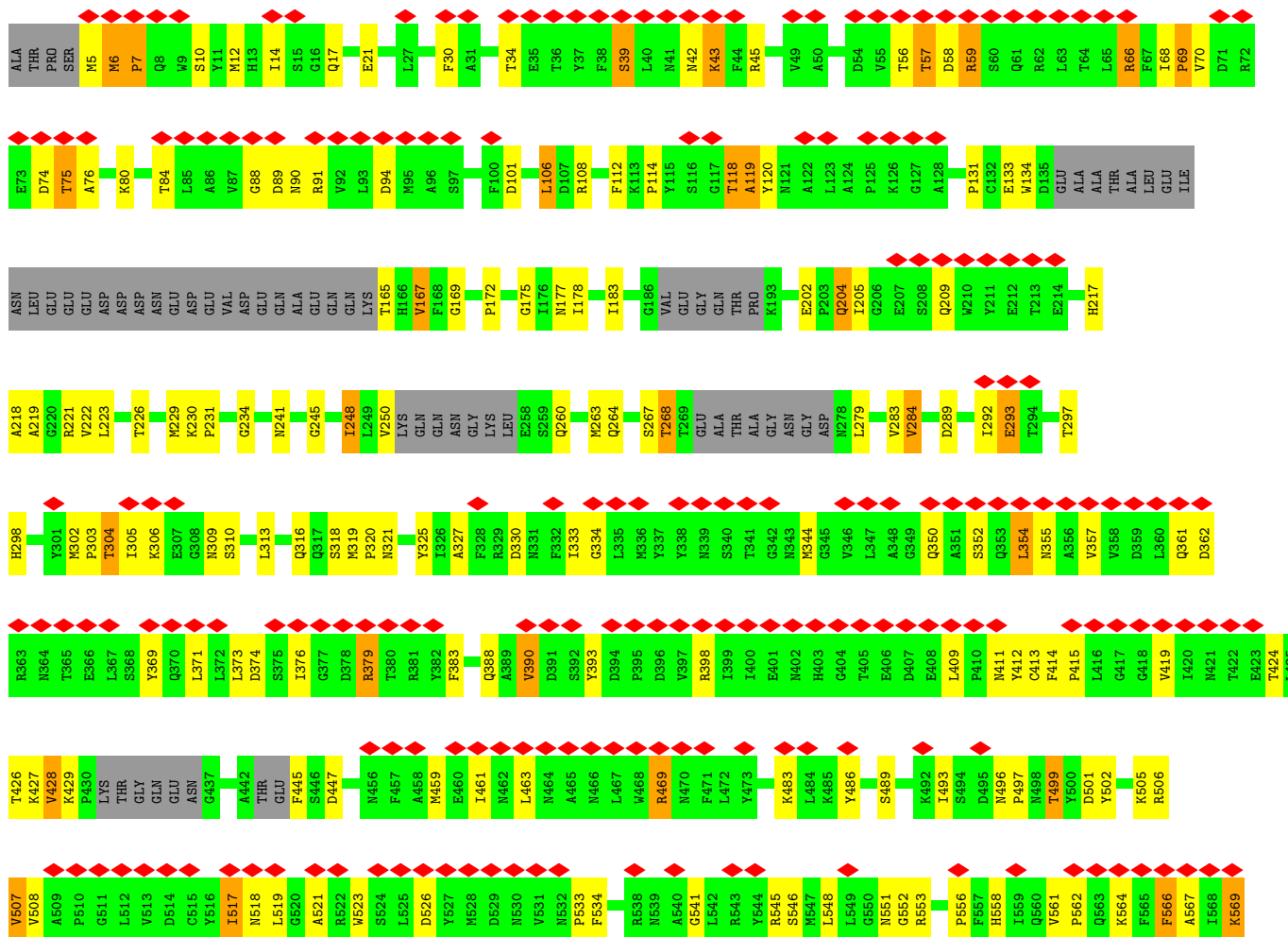


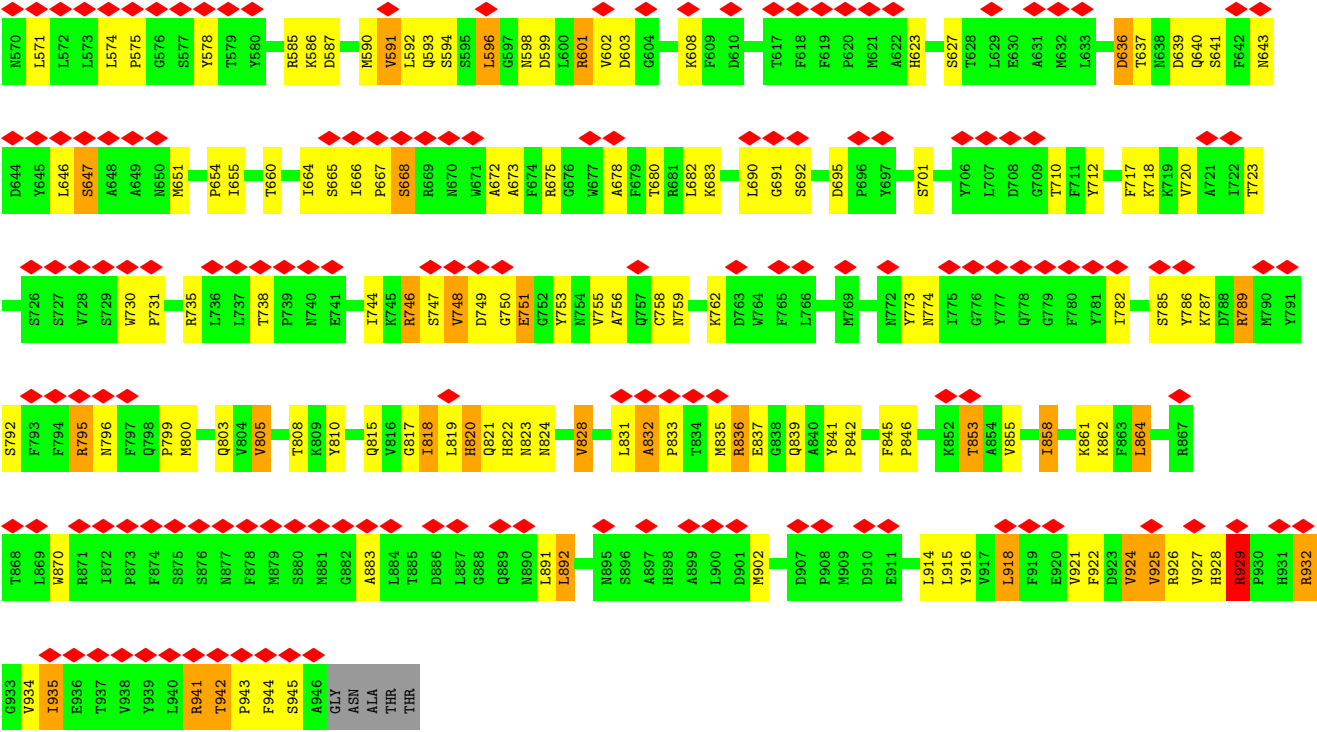
• Molecule 3: HEXON PROTEIN





- Molecule 3: HEXON PROTEIN





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	4100	Depositor
Resolution determination method	Not provided	
CTF correction method	AMPLITUDE, PHASE TMV AND COMPARISON WITH X-RAY DATA	Depositor
Microscope	FEI/PHILIPS CM200T	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	10	Depositor
Minimum defocus (nm)	100	Depositor
Maximum defocus (nm)	250	Depositor
Magnification	28600	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	21528.000	Depositor
Minimum map value	-19812.000	Depositor
Average map value	108.747	Depositor
Map value standard deviation	2362.060	Depositor
Recommended contour level	4660	Depositor
Map size (Å)	1097.6, 1097.6, 1097.6	wwPDB
Map dimensions	448, 448, 448	wwPDB
Map angles (°)	90, 90, 90	wwPDB
Pixel spacing (Å)	2.45, 2.45, 2.45	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.78	4/3602 (0.1%)	1.25	38/4904 (0.8%)
1	B	0.78	4/3602 (0.1%)	1.25	39/4904 (0.8%)
1	C	0.78	4/3602 (0.1%)	1.25	38/4904 (0.8%)
1	D	0.78	4/3602 (0.1%)	1.25	38/4904 (0.8%)
1	E	0.78	5/3602 (0.1%)	1.25	38/4904 (0.8%)
2	S	0.66	0/90	1.06	0/125
2	T	0.66	0/90	1.06	0/125
2	U	0.66	0/90	1.06	0/125
2	V	0.67	0/90	1.05	0/125
2	W	0.67	0/90	1.06	0/125
3	F	0.71	0/7133	1.14	18/9725 (0.2%)
3	G	0.71	0/7133	1.14	18/9725 (0.2%)
3	H	0.71	0/7133	1.14	19/9725 (0.2%)
3	I	0.71	0/7133	1.14	18/9725 (0.2%)
3	J	0.71	0/7133	1.15	18/9725 (0.2%)
3	K	0.71	0/7133	1.14	19/9725 (0.2%)
3	L	0.70	0/7133	1.14	18/9725 (0.2%)
3	M	0.71	0/7133	1.14	18/9725 (0.2%)
3	N	0.71	0/7133	1.14	19/9725 (0.2%)
3	O	0.71	0/7133	1.14	18/9725 (0.2%)
3	P	0.71	0/7133	1.14	18/9725 (0.2%)
3	Q	0.71	0/7133	1.14	18/9725 (0.2%)
All	All	0.72	21/104056 (0.0%)	1.16	410/141845 (0.3%)

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	179	MET	SD-CE	5.56	1.93	1.79
1	A	179	MET	SD-CE	5.54	1.93	1.79
1	D	379	ILE	CA-CB	5.54	1.61	1.54
1	E	179	MET	SD-CE	5.52	1.93	1.79
1	C	179	MET	SD-CE	5.51	1.93	1.79
1	D	179	MET	SD-CE	5.50	1.93	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	379	ILE	CA-CB	5.47	1.61	1.54
1	A	379	ILE	CA-CB	5.46	1.61	1.54
1	B	379	ILE	CA-CB	5.44	1.61	1.54
1	E	379	ILE	CA-CB	5.39	1.61	1.54
1	C	450	THR	CA-CB	-5.30	1.44	1.53
1	A	450	THR	CA-CB	-5.30	1.44	1.53
1	D	450	THR	CA-CB	-5.30	1.44	1.53
1	A	482	TYR	C-O	5.29	1.30	1.23
1	C	482	TYR	C-O	5.28	1.30	1.23
1	D	482	TYR	C-O	5.27	1.30	1.23
1	B	450	THR	CA-CB	-5.26	1.44	1.53
1	E	450	THR	CA-CB	-5.25	1.44	1.53
1	E	482	TYR	C-O	5.25	1.30	1.23
1	B	482	TYR	C-O	5.23	1.30	1.23
1	E	565	VAL	CA-CB	-5.02	1.49	1.54

All (410) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	482	TYR	N-CA-C	-17.66	91.36	113.97
1	A	482	TYR	N-CA-C	-17.66	91.37	113.97
1	B	482	TYR	N-CA-C	-17.64	91.40	113.97
1	D	482	TYR	N-CA-C	-17.64	91.40	113.97
1	E	482	TYR	N-CA-C	-17.61	91.42	113.97
1	C	265	GLN	CA-C-N	8.93	131.01	119.84
1	C	265	GLN	C-N-CA	8.93	131.01	119.84
1	A	265	GLN	CA-C-N	8.91	130.98	119.84
1	A	265	GLN	C-N-CA	8.91	130.98	119.84
1	E	265	GLN	CA-C-N	8.89	130.96	119.84
1	E	265	GLN	C-N-CA	8.89	130.96	119.84
1	B	265	GLN	CA-C-N	8.88	130.94	119.84
1	B	265	GLN	C-N-CA	8.88	130.94	119.84
1	D	265	GLN	CA-C-N	8.84	130.88	119.84
1	D	265	GLN	C-N-CA	8.84	130.88	119.84
1	C	468	LEU	CA-C-N	8.77	130.80	119.84
1	C	468	LEU	C-N-CA	8.77	130.80	119.84
1	B	441	LEU	CA-C-N	8.72	130.74	119.84
1	B	441	LEU	C-N-CA	8.72	130.74	119.84
1	D	468	LEU	CA-C-N	8.71	130.73	119.84
1	D	468	LEU	C-N-CA	8.71	130.73	119.84
1	E	468	LEU	CA-C-N	8.71	130.73	119.84
1	E	468	LEU	C-N-CA	8.71	130.73	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	468	LEU	CA-C-N	8.70	130.72	119.84
1	A	468	LEU	C-N-CA	8.70	130.72	119.84
1	B	468	LEU	CA-C-N	8.67	130.68	119.84
1	B	468	LEU	C-N-CA	8.67	130.68	119.84
1	A	441	LEU	CA-C-N	8.64	130.65	119.84
1	A	441	LEU	C-N-CA	8.64	130.65	119.84
1	C	441	LEU	CA-C-N	8.64	130.64	119.84
1	C	441	LEU	C-N-CA	8.64	130.64	119.84
1	E	441	LEU	CA-C-N	8.63	130.62	119.84
1	E	441	LEU	C-N-CA	8.63	130.62	119.84
1	D	441	LEU	CA-C-N	8.63	130.62	119.84
1	D	441	LEU	C-N-CA	8.63	130.62	119.84
1	E	106	ALA	N-CA-C	-7.76	102.76	111.14
1	A	106	ALA	N-CA-C	-7.75	102.76	111.14
1	C	106	ALA	N-CA-C	-7.75	102.77	111.14
1	D	106	ALA	N-CA-C	-7.73	102.79	111.14
1	B	106	ALA	N-CA-C	-7.66	102.86	111.14
1	D	96	ILE	N-CA-C	7.37	117.89	110.23
1	B	96	ILE	N-CA-C	7.31	117.84	110.23
1	E	447	ASP	CA-C-N	7.26	128.91	119.84
1	E	447	ASP	C-N-CA	7.26	128.91	119.84
1	A	447	ASP	CA-C-N	7.25	128.91	119.84
1	A	447	ASP	C-N-CA	7.25	128.91	119.84
1	D	447	ASP	CA-C-N	7.24	128.88	119.84
1	D	447	ASP	C-N-CA	7.24	128.88	119.84
1	C	447	ASP	CA-C-N	7.23	128.88	119.84
1	C	447	ASP	C-N-CA	7.23	128.88	119.84
1	B	447	ASP	CA-C-N	7.22	128.86	119.84
1	B	447	ASP	C-N-CA	7.22	128.86	119.84
1	C	96	ILE	N-CA-C	7.21	117.94	110.36
3	M	738	THR	CA-C-N	7.18	128.82	119.84
3	M	738	THR	C-N-CA	7.18	128.82	119.84
1	A	96	ILE	N-CA-C	7.17	117.89	110.36
3	P	738	THR	CA-C-N	7.17	128.80	119.84
3	P	738	THR	C-N-CA	7.17	128.80	119.84
3	G	738	THR	CA-C-N	7.15	128.77	119.84
3	G	738	THR	C-N-CA	7.15	128.77	119.84
3	J	738	THR	CA-C-N	7.15	128.78	119.84
3	J	738	THR	C-N-CA	7.15	128.78	119.84
1	E	96	ILE	N-CA-C	7.14	117.86	110.36
1	A	478	ASP	N-CA-C	-7.12	104.33	112.87
1	C	478	ASP	N-CA-C	-7.11	104.33	112.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	450	THR	N-CA-C	7.11	122.13	113.17
1	A	450	THR	N-CA-C	7.11	122.13	113.17
1	D	478	ASP	N-CA-C	-7.10	104.35	112.87
1	D	450	THR	N-CA-C	7.10	122.11	113.17
1	B	478	ASP	N-CA-C	-7.10	104.35	112.87
1	E	450	THR	N-CA-C	7.09	122.11	113.17
1	E	478	ASP	N-CA-C	-7.09	104.36	112.87
3	I	738	THR	CA-C-N	7.09	128.70	119.84
3	I	738	THR	C-N-CA	7.09	128.70	119.84
1	B	450	THR	N-CA-C	7.08	122.10	113.17
3	O	738	THR	CA-C-N	7.08	128.69	119.84
3	O	738	THR	C-N-CA	7.08	128.69	119.84
3	H	738	THR	CA-C-N	7.08	128.69	119.84
3	H	738	THR	C-N-CA	7.08	128.69	119.84
3	F	738	THR	CA-C-N	7.08	128.69	119.84
3	F	738	THR	C-N-CA	7.08	128.69	119.84
3	L	738	THR	CA-C-N	7.07	128.68	119.84
3	L	738	THR	C-N-CA	7.07	128.68	119.84
3	N	738	THR	CA-C-N	7.07	128.68	119.84
3	N	738	THR	C-N-CA	7.07	128.68	119.84
3	Q	738	THR	CA-C-N	7.07	128.67	119.84
3	Q	738	THR	C-N-CA	7.07	128.67	119.84
3	K	738	THR	CA-C-N	7.06	128.66	119.84
3	K	738	THR	C-N-CA	7.06	128.66	119.84
3	I	58	ASP	N-CA-C	-7.02	104.98	113.97
3	O	58	ASP	N-CA-C	-7.01	105.00	113.97
3	F	58	ASP	N-CA-C	-6.98	105.03	113.97
3	L	58	ASP	N-CA-C	-6.97	105.05	113.97
3	M	58	ASP	N-CA-C	-6.96	105.06	113.97
3	J	58	ASP	N-CA-C	-6.95	105.08	113.97
3	N	58	ASP	N-CA-C	-6.94	105.09	113.97
3	Q	58	ASP	N-CA-C	-6.93	105.10	113.97
3	K	58	ASP	N-CA-C	-6.92	105.11	113.97
3	P	58	ASP	N-CA-C	-6.92	105.12	113.97
3	G	58	ASP	N-CA-C	-6.90	105.14	113.97
3	H	58	ASP	N-CA-C	-6.90	105.14	113.97
3	F	566	PHE	N-CA-C	6.66	118.54	111.28
3	L	566	PHE	N-CA-C	6.65	118.53	111.28
1	C	512	THR	N-CA-C	-6.64	100.45	110.28
3	I	566	PHE	N-CA-C	6.62	118.50	111.28
1	B	512	THR	N-CA-C	-6.62	100.48	110.28
1	E	512	THR	N-CA-C	-6.61	100.50	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Q	566	PHE	N-CA-C	6.61	118.48	111.28
3	P	566	PHE	N-CA-C	6.59	118.46	111.28
1	D	512	THR	N-CA-C	-6.59	100.53	110.28
3	M	566	PHE	N-CA-C	6.59	118.46	111.28
3	O	566	PHE	N-CA-C	6.59	118.46	111.28
3	H	566	PHE	N-CA-C	6.58	118.45	111.28
1	A	512	THR	N-CA-C	-6.57	100.55	110.28
3	J	566	PHE	N-CA-C	6.57	118.44	111.28
3	K	566	PHE	N-CA-C	6.57	118.44	111.28
3	G	566	PHE	N-CA-C	6.55	118.42	111.28
3	N	566	PHE	N-CA-C	6.54	118.41	111.28
1	B	203	GLU	N-CA-C	-6.53	104.24	111.36
1	E	203	GLU	N-CA-C	-6.52	104.25	111.36
1	D	203	GLU	N-CA-C	-6.51	104.27	111.36
3	J	39	SER	N-CA-C	6.51	120.89	109.96
3	P	39	SER	N-CA-C	6.50	120.88	109.96
1	A	203	GLU	N-CA-C	-6.50	104.28	111.36
3	G	39	SER	N-CA-C	6.48	120.85	109.96
3	N	39	SER	N-CA-C	6.48	120.85	109.96
1	C	203	GLU	N-CA-C	-6.48	104.30	111.36
3	M	39	SER	N-CA-C	6.47	120.84	109.96
3	H	39	SER	N-CA-C	6.46	120.81	109.96
3	K	39	SER	N-CA-C	6.46	120.81	109.96
3	Q	39	SER	N-CA-C	6.46	120.81	109.96
3	F	39	SER	N-CA-C	6.43	120.77	109.96
3	L	39	SER	N-CA-C	6.43	120.77	109.96
3	O	39	SER	N-CA-C	6.41	120.73	109.96
3	I	39	SER	N-CA-C	6.41	120.73	109.96
1	C	282	ASN	N-CA-C	-6.31	99.41	109.76
1	E	282	ASN	N-CA-C	-6.31	99.41	109.76
1	D	282	ASN	N-CA-C	-6.31	99.42	109.76
1	A	282	ASN	N-CA-C	-6.30	99.43	109.76
1	C	237	HIS	CA-C-N	-6.26	113.53	119.85
1	C	237	HIS	C-N-CA	-6.26	113.53	119.85
1	B	282	ASN	N-CA-C	-6.26	99.50	109.76
1	D	237	HIS	CA-C-N	-6.24	113.55	119.85
1	D	237	HIS	C-N-CA	-6.24	113.55	119.85
1	E	237	HIS	CA-C-N	-6.22	113.57	119.85
1	E	237	HIS	C-N-CA	-6.22	113.57	119.85
1	A	237	HIS	CA-C-N	-6.21	113.57	119.85
1	A	237	HIS	C-N-CA	-6.21	113.57	119.85
1	B	237	HIS	CA-C-N	-6.20	113.59	119.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	237	HIS	C-N-CA	-6.20	113.59	119.85
1	A	154	THR	N-CA-C	6.19	119.12	109.52
1	E	154	THR	N-CA-C	6.19	119.11	109.52
1	B	154	THR	N-CA-C	6.18	119.09	109.52
1	D	154	THR	N-CA-C	6.17	119.08	109.52
1	C	74	ASN	N-CA-C	6.14	121.51	111.37
1	C	154	THR	N-CA-C	6.14	119.04	109.52
1	A	74	ASN	N-CA-C	6.11	121.46	111.37
1	B	74	ASN	N-CA-C	6.11	121.45	111.37
1	D	74	ASN	N-CA-C	6.11	121.45	111.37
1	E	74	ASN	N-CA-C	6.10	121.44	111.37
1	A	105	GLU	N-CA-C	-6.08	104.96	112.38
1	E	131	MET	CA-C-N	6.07	125.83	119.76
1	E	131	MET	C-N-CA	6.07	125.83	119.76
1	B	105	GLU	N-CA-C	-6.07	104.97	112.38
1	E	275	TYR	N-CA-C	-6.05	104.60	111.07
1	C	105	GLU	N-CA-C	-6.04	105.01	112.38
1	C	275	TYR	N-CA-C	-6.04	104.61	111.07
1	A	275	TYR	N-CA-C	-6.04	104.61	111.07
1	E	105	GLU	N-CA-C	-6.04	105.01	112.38
1	A	131	MET	CA-C-N	6.04	125.80	119.76
1	A	131	MET	C-N-CA	6.04	125.80	119.76
1	C	131	MET	CA-C-N	6.01	125.77	119.76
1	C	131	MET	C-N-CA	6.01	125.77	119.76
1	D	105	GLU	N-CA-C	-6.01	105.05	112.38
1	D	275	TYR	N-CA-C	-6.00	104.64	111.07
1	D	131	MET	CA-C-N	6.00	125.75	119.76
1	D	131	MET	C-N-CA	6.00	125.75	119.76
1	B	275	TYR	N-CA-C	-5.99	104.66	111.07
1	B	131	MET	CA-C-N	5.94	125.70	119.76
1	B	131	MET	C-N-CA	5.94	125.70	119.76
1	B	224	GLY	N-CA-C	-5.92	105.96	115.08
3	Q	603	ASP	N-CA-C	5.92	120.02	113.21
3	I	603	ASP	N-CA-C	5.91	120.01	113.21
3	N	603	ASP	N-CA-C	5.91	120.00	113.21
1	D	224	GLY	N-CA-C	-5.90	105.99	115.08
1	E	224	GLY	N-CA-C	-5.90	106.00	115.08
1	C	224	GLY	N-CA-C	-5.89	106.01	115.08
1	A	224	GLY	N-CA-C	-5.89	106.01	115.08
3	G	603	ASP	N-CA-C	5.89	119.98	113.21
3	J	603	ASP	N-CA-C	5.88	119.97	113.21
3	M	603	ASP	N-CA-C	5.88	119.97	113.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	603	ASP	N-CA-C	5.88	119.97	113.21
3	H	603	ASP	N-CA-C	5.87	119.96	113.21
3	O	603	ASP	N-CA-C	5.86	119.94	113.21
3	P	603	ASP	N-CA-C	5.85	119.94	113.21
3	F	603	ASP	N-CA-C	5.84	119.93	113.21
3	L	603	ASP	N-CA-C	5.84	119.92	113.21
3	L	820	HIS	CA-CB-CG	-5.83	107.97	113.80
3	J	820	HIS	CA-CB-CG	-5.81	107.99	113.80
3	I	820	HIS	CA-CB-CG	-5.80	108.00	113.80
3	G	820	HIS	CA-CB-CG	-5.79	108.01	113.80
3	Q	820	HIS	CA-CB-CG	-5.79	108.01	113.80
3	H	820	HIS	CA-CB-CG	-5.78	108.02	113.80
3	K	820	HIS	CA-CB-CG	-5.78	108.02	113.80
3	O	820	HIS	CA-CB-CG	-5.77	108.03	113.80
3	F	820	HIS	CA-CB-CG	-5.76	108.03	113.80
3	I	569	LYS	N-CA-C	5.75	118.28	111.33
3	N	820	HIS	CA-CB-CG	-5.74	108.06	113.80
3	Q	569	LYS	N-CA-C	5.72	118.25	111.33
3	M	820	HIS	CA-CB-CG	-5.72	108.08	113.80
3	N	569	LYS	N-CA-C	5.71	118.25	111.33
3	P	820	HIS	CA-CB-CG	-5.71	108.09	113.80
3	F	569	LYS	N-CA-C	5.71	118.24	111.33
3	K	569	LYS	N-CA-C	5.71	118.23	111.33
3	L	569	LYS	N-CA-C	5.70	118.22	111.33
3	P	569	LYS	N-CA-C	5.69	118.22	111.33
3	O	569	LYS	N-CA-C	5.69	118.22	111.33
3	M	569	LYS	N-CA-C	5.68	118.20	111.33
3	H	569	LYS	N-CA-C	5.67	118.19	111.33
3	J	569	LYS	N-CA-C	5.66	118.18	111.33
3	G	569	LYS	N-CA-C	5.66	118.18	111.33
3	M	929	ARG	CA-C-N	5.62	125.73	119.32
3	M	929	ARG	C-N-CA	5.62	125.73	119.32
3	P	929	ARG	CA-C-N	5.58	125.69	119.32
3	P	929	ARG	C-N-CA	5.58	125.69	119.32
1	B	491	SER	N-CA-C	-5.57	100.73	109.25
3	G	929	ARG	CA-C-N	5.56	125.66	119.32
3	G	929	ARG	C-N-CA	5.56	125.66	119.32
3	J	929	ARG	CA-C-N	5.56	125.66	119.32
3	J	929	ARG	C-N-CA	5.56	125.66	119.32
3	O	929	ARG	CA-C-N	5.54	125.64	119.32
3	O	929	ARG	C-N-CA	5.54	125.64	119.32
3	I	929	ARG	CA-C-N	5.54	125.64	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	929	ARG	C-N-CA	5.54	125.64	119.32
3	L	929	ARG	CA-C-N	5.53	125.63	119.32
3	L	929	ARG	C-N-CA	5.53	125.63	119.32
1	B	493	THR	N-CA-C	5.52	117.78	109.23
1	A	491	SER	N-CA-C	-5.51	100.81	109.25
3	H	69	PRO	N-CA-CB	5.51	108.46	103.34
1	C	493	THR	N-CA-C	5.51	117.77	109.23
3	F	929	ARG	CA-C-N	5.51	125.60	119.32
3	F	929	ARG	C-N-CA	5.51	125.60	119.32
3	H	929	ARG	CA-C-N	5.51	125.60	119.32
3	H	929	ARG	C-N-CA	5.51	125.60	119.32
3	K	929	ARG	CA-C-N	5.50	125.59	119.32
3	K	929	ARG	C-N-CA	5.50	125.59	119.32
1	A	152	SER	N-CA-C	5.50	118.05	109.52
1	C	491	SER	N-CA-C	-5.50	100.83	109.25
1	E	491	SER	N-CA-C	-5.50	100.83	109.25
3	Q	69	PRO	N-CA-CB	5.50	108.45	103.34
1	E	493	THR	N-CA-C	5.50	117.75	109.23
3	Q	929	ARG	CA-C-N	5.49	125.58	119.32
3	Q	929	ARG	C-N-CA	5.49	125.58	119.32
1	D	152	SER	N-CA-C	5.49	118.03	109.52
1	A	493	THR	N-CA-C	5.49	117.73	109.23
1	B	152	SER	N-CA-C	5.48	118.02	109.52
1	C	152	SER	N-CA-C	5.48	118.02	109.52
1	D	491	SER	N-CA-C	-5.48	100.87	109.25
3	K	69	PRO	N-CA-CB	5.47	108.43	103.34
1	C	267	PHE	N-CA-C	5.47	119.44	112.87
3	I	120	TYR	N-CA-C	5.47	117.33	108.41
3	N	929	ARG	CA-C-N	5.47	125.55	119.32
3	N	929	ARG	C-N-CA	5.47	125.55	119.32
1	E	152	SER	N-CA-C	5.47	117.99	109.52
1	D	493	THR	N-CA-C	5.46	117.69	109.23
3	F	69	PRO	N-CA-CB	5.46	108.41	103.34
1	D	267	PHE	N-CA-C	5.45	119.41	112.87
3	N	69	PRO	N-CA-CB	5.45	108.40	103.34
3	O	69	PRO	N-CA-CB	5.44	108.40	103.34
1	E	267	PHE	N-CA-C	5.44	119.40	112.87
1	E	77	THR	N-CA-C	5.43	116.89	110.97
3	L	69	PRO	N-CA-CB	5.43	108.39	103.34
3	O	120	TYR	N-CA-C	5.43	117.27	108.41
3	I	69	PRO	N-CA-CB	5.43	108.39	103.34
3	F	120	TYR	N-CA-C	5.42	117.25	108.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	69	PRO	N-CA-CB	5.42	108.38	103.34
3	L	120	TYR	N-CA-C	5.42	117.24	108.41
1	A	267	PHE	N-CA-C	5.41	119.36	112.87
1	C	77	THR	N-CA-C	5.40	116.86	110.97
3	K	120	TYR	N-CA-C	5.40	117.21	108.41
3	G	69	PRO	N-CA-CB	5.40	108.36	103.34
1	B	267	PHE	N-CA-C	5.39	119.34	112.87
1	B	77	THR	N-CA-C	5.38	116.83	110.97
3	N	120	TYR	N-CA-C	5.38	117.17	108.41
1	D	84	TYR	N-CA-C	-5.38	99.35	110.80
1	B	84	TYR	N-CA-C	-5.37	99.36	110.80
3	H	120	TYR	N-CA-C	5.37	117.16	108.41
1	C	84	TYR	N-CA-C	-5.37	99.37	110.80
1	D	551	CYS	CA-C-N	5.37	125.70	119.47
1	D	551	CYS	C-N-CA	5.37	125.70	119.47
3	P	69	PRO	N-CA-CB	5.36	108.33	103.34
1	A	84	TYR	N-CA-C	-5.36	99.39	110.80
1	E	84	TYR	N-CA-C	-5.36	99.39	110.80
1	B	553	TYR	N-CA-C	5.36	119.37	113.21
1	E	553	TYR	N-CA-C	5.36	119.37	113.21
3	Q	735	ARG	N-CA-C	5.36	116.92	111.14
1	D	77	THR	N-CA-C	5.35	116.81	110.97
3	N	735	ARG	N-CA-C	5.35	116.92	111.14
3	I	832	ALA	N-CA-C	5.35	112.94	108.13
3	M	120	TYR	N-CA-C	5.35	117.12	108.41
3	Q	120	TYR	N-CA-C	5.35	117.12	108.41
3	H	390	VAL	N-CA-C	5.34	117.15	109.51
3	J	69	PRO	N-CA-CB	5.34	108.31	103.34
3	H	735	ARG	N-CA-C	5.34	116.91	111.14
1	B	551	CYS	CA-C-N	5.34	125.66	119.47
1	B	551	CYS	C-N-CA	5.34	125.66	119.47
1	D	553	TYR	N-CA-C	5.34	119.35	113.21
3	N	390	VAL	N-CA-C	5.34	117.14	109.51
3	P	120	TYR	N-CA-C	5.33	117.11	108.41
1	A	553	TYR	N-CA-C	5.33	119.34	113.21
1	E	551	CYS	CA-C-N	5.33	125.66	119.47
1	E	551	CYS	C-N-CA	5.33	125.66	119.47
3	G	120	TYR	N-CA-C	5.33	117.10	108.41
3	G	735	ARG	N-CA-C	5.33	116.90	111.14
3	J	120	TYR	N-CA-C	5.33	117.10	108.41
1	A	77	THR	N-CA-C	5.33	116.78	110.97
3	Q	390	VAL	N-CA-C	5.33	117.13	109.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	551	CYS	CA-C-N	5.32	125.64	119.47
1	A	551	CYS	C-N-CA	5.32	125.64	119.47
3	N	832	ALA	N-CA-C	5.32	112.92	108.13
3	O	735	ARG	N-CA-C	5.32	116.89	111.14
3	J	735	ARG	N-CA-C	5.32	116.88	111.14
1	C	553	TYR	N-CA-C	5.31	119.32	113.21
3	K	390	VAL	N-CA-C	5.31	117.10	109.51
3	K	735	ARG	N-CA-C	5.30	116.86	111.14
3	K	924	VAL	N-CA-C	5.30	117.70	108.95
3	P	735	ARG	N-CA-C	5.30	116.87	111.14
3	F	735	ARG	N-CA-C	5.30	116.86	111.14
3	K	832	ALA	N-CA-C	5.30	112.90	108.13
3	J	924	VAL	N-CA-C	5.29	117.69	108.95
3	Q	924	VAL	N-CA-C	5.29	117.68	108.95
3	N	924	VAL	N-CA-C	5.29	117.68	108.95
3	O	832	ALA	N-CA-C	5.29	112.89	108.13
3	I	390	VAL	N-CA-C	5.29	117.07	109.51
3	O	390	VAL	N-CA-C	5.28	117.07	109.51
3	Q	832	ALA	N-CA-C	5.28	112.89	108.13
3	F	832	ALA	N-CA-C	5.28	112.88	108.13
3	M	735	ARG	N-CA-C	5.28	116.84	111.14
3	G	924	VAL	N-CA-C	5.28	117.66	108.95
3	F	390	VAL	N-CA-C	5.28	117.06	109.51
3	H	832	ALA	N-CA-C	5.28	112.88	108.13
3	L	390	VAL	N-CA-C	5.27	117.05	109.51
3	O	556	PRO	N-CA-C	-5.27	101.61	112.47
3	I	556	PRO	N-CA-C	-5.27	101.62	112.47
3	L	832	ALA	N-CA-C	5.26	112.87	108.13
3	M	924	VAL	N-CA-C	5.26	117.64	108.95
3	H	924	VAL	N-CA-C	5.26	117.63	108.95
3	L	556	PRO	N-CA-C	-5.26	101.64	112.47
3	M	556	PRO	N-CA-C	-5.26	101.64	112.47
3	P	390	VAL	N-CA-C	5.26	117.03	109.51
3	F	556	PRO	N-CA-C	-5.26	101.64	112.47
1	C	551	CYS	CA-C-N	5.25	125.57	119.47
1	C	551	CYS	C-N-CA	5.25	125.57	119.47
3	L	119	ALA	N-CA-C	-5.25	106.89	113.72
3	I	735	ARG	N-CA-C	5.25	116.81	111.14
1	E	542	THR	N-CA-C	5.25	117.16	108.13
3	G	556	PRO	N-CA-C	-5.25	101.65	112.47
3	I	119	ALA	N-CA-C	-5.25	106.89	113.72
3	P	924	VAL	N-CA-C	5.25	117.62	108.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Q	556	PRO	N-CA-C	-5.25	101.65	112.47
3	P	556	PRO	N-CA-C	-5.24	101.67	112.47
3	L	735	ARG	N-CA-C	5.24	116.80	111.14
3	F	119	ALA	N-CA-C	-5.24	106.91	113.72
3	J	556	PRO	N-CA-C	-5.24	101.68	112.47
3	K	556	PRO	N-CA-C	-5.24	101.68	112.47
3	P	832	ALA	N-CA-C	5.23	112.84	108.13
3	G	390	VAL	N-CA-C	5.23	116.99	109.51
3	O	119	ALA	N-CA-C	-5.23	106.92	113.72
3	H	556	PRO	N-CA-C	-5.23	101.70	112.47
3	M	390	VAL	N-CA-C	5.23	116.99	109.51
3	N	556	PRO	N-CA-C	-5.23	101.70	112.47
3	G	832	ALA	N-CA-C	5.22	112.83	108.13
3	J	390	VAL	N-CA-C	5.22	116.97	109.51
1	D	542	THR	N-CA-C	5.22	117.10	108.13
1	A	494	HIS	N-CA-C	-5.21	105.63	112.72
1	A	542	THR	N-CA-C	5.21	117.09	108.13
1	B	494	HIS	N-CA-C	-5.21	105.63	112.72
1	B	542	THR	N-CA-C	5.20	117.08	108.13
1	B	495	VAL	CB-CA-C	-5.20	105.23	112.04
1	E	494	HIS	N-CA-C	-5.20	105.65	112.72
3	J	832	ALA	N-CA-C	5.20	112.81	108.13
1	C	494	HIS	N-CA-C	-5.20	105.65	112.72
3	K	119	ALA	N-CA-C	-5.19	106.97	113.72
1	D	494	HIS	N-CA-C	-5.19	105.66	112.72
1	C	542	THR	N-CA-C	5.19	117.06	108.13
1	D	495	VAL	CB-CA-C	-5.19	105.25	112.04
3	M	832	ALA	N-CA-C	5.19	112.80	108.13
1	E	495	VAL	CB-CA-C	-5.19	105.25	112.04
3	Q	119	ALA	N-CA-C	-5.19	106.98	113.72
1	C	495	VAL	CB-CA-C	-5.18	105.26	112.04
3	H	119	ALA	N-CA-C	-5.17	107.00	113.72
1	A	398	SER	N-CA-C	5.17	117.59	110.35
1	A	495	VAL	CB-CA-C	-5.16	105.28	112.04
3	F	924	VAL	N-CA-C	5.16	117.47	108.95
3	I	924	VAL	N-CA-C	5.16	117.47	108.95
3	L	924	VAL	N-CA-C	5.16	117.47	108.95
3	N	119	ALA	N-CA-C	-5.16	107.01	113.72
1	D	398	SER	N-CA-C	5.15	117.56	110.35
3	O	924	VAL	N-CA-C	5.15	117.44	108.95
1	E	398	SER	N-CA-C	5.14	117.55	110.35
1	C	398	SER	N-CA-C	5.12	117.52	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	G	119	ALA	N-CA-C	-5.11	107.08	113.72
3	J	119	ALA	N-CA-C	-5.11	107.08	113.72
3	P	119	ALA	N-CA-C	-5.09	107.10	113.72
3	M	119	ALA	N-CA-C	-5.08	107.11	113.72
1	B	398	SER	N-CA-C	5.08	117.46	110.35
3	H	534	PHE	CA-CB-CG	-5.04	108.76	113.80
3	K	534	PHE	CA-CB-CG	-5.03	108.77	113.80
3	N	534	PHE	CA-CB-CG	-5.02	108.78	113.80
1	B	188	ILE	N-CA-C	-5.01	105.61	110.42

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	A	3519	0	3451	458	0
1	B	3519	0	3452	437	0
1	C	3519	0	3452	436	0
1	D	3519	0	3452	443	0
1	E	3519	0	3452	443	0
2	S	86	0	73	19	0
2	T	86	0	73	17	0
2	U	86	0	73	17	0
2	V	86	0	73	16	0
2	W	86	0	73	19	0
3	F	6942	0	6506	283	0
3	G	6942	0	6506	259	0
3	H	6942	0	6506	257	0
3	I	6942	0	6506	272	0
3	J	6942	0	6506	250	0
3	K	6942	0	6506	260	0
3	L	6942	0	6506	293	0
3	M	6942	0	6506	280	0
3	N	6942	0	6506	259	0
3	O	6942	0	6506	271	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	P	6942	0	6504	258	0
3	Q	6942	0	6506	265	0
All	All	101329	0	95694	4919	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 25.

All (4919) 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)
3:F:341:THR:CG2	3:M:739:PRO:HG2	1.55	1.36
3:L:341:THR:CG2	3:O:739:PRO:HG2	1.62	1.27
3:F:739:PRO:HG2	3:I:341:THR:CG2	1.63	1.26
3:L:73:GLU:CG	3:Q:68:ILE:HG21	1.67	1.23
3:L:341:THR:HG21	3:O:739:PRO:CG	1.70	1.19
3:F:73:GLU:CD	3:L:68:ILE:HG13	1.68	1.17
3:F:73:GLU:OE1	3:L:68:ILE:HG13	1.44	1.16
3:H:68:ILE:HG13	3:I:73:GLU:CD	1.75	1.11
3:L:341:THR:CG2	3:O:739:PRO:CG	2.24	1.11
3:I:739:PRO:HG2	3:M:341:THR:CG2	1.79	1.10
3:K:229:MET:HE3	3:K:309:ASN:HB3	1.10	1.10
3:P:229:MET:HE3	3:P:309:ASN:HB3	1.10	1.10
3:F:229:MET:HE3	3:F:309:ASN:HB3	1.10	1.09
3:Q:229:MET:HE3	3:Q:309:ASN:HB3	1.10	1.09
1:C:68:ARG:NH1	1:C:562:SER:HB3	1.68	1.09
1:D:68:ARG:NH1	1:D:562:SER:HB3	1.68	1.09
3:H:68:ILE:HG13	3:I:73:GLU:OE1	1.52	1.09
3:J:229:MET:HE3	3:J:309:ASN:HB3	1.10	1.09
1:A:68:ARG:NH1	1:A:562:SER:HB3	1.68	1.09
3:O:229:MET:HE3	3:O:309:ASN:HB3	1.10	1.09
3:K:68:ILE:HG13	3:M:73:GLU:OE1	1.51	1.08
3:F:739:PRO:HG2	3:I:341:THR:HG21	1.12	1.08
3:G:229:MET:HE3	3:G:309:ASN:HB3	1.10	1.08
3:N:229:MET:HE3	3:N:309:ASN:HB3	1.10	1.08
1:B:68:ARG:NH1	1:B:562:SER:HB3	1.68	1.08
1:E:68:ARG:NH1	1:E:562:SER:HB3	1.68	1.07
3:F:341:THR:HG21	3:M:739:PRO:HG2	1.15	1.06
1:A:85:GLN:NE2	3:P:692:SER:HB2	1.71	1.06
3:I:229:MET:HE3	3:I:309:ASN:HB3	1.10	1.05
3:I:739:PRO:HG2	3:M:341:THR:HG21	1.36	1.05
3:L:73:GLU:OE2	3:Q:68:ILE:HB	1.31	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:229:MET:HE3	3:M:309:ASN:HB3	1.10	1.05
3:H:229:MET:HE3	3:H:309:ASN:HB3	1.10	1.05
3:L:229:MET:HE3	3:L:309:ASN:HB3	1.10	1.05
1:E:444:MET:HE1	1:E:561:VAL:HG21	1.39	1.04
1:C:444:MET:HE1	1:C:561:VAL:HG21	1.39	1.04
1:C:479:GLN:O	1:C:483:SER:HB2	1.59	1.03
1:B:444:MET:HE1	1:B:561:VAL:HG21	1.39	1.03
3:L:73:GLU:OE2	3:Q:68:ILE:CB	1.97	1.02
1:B:479:GLN:O	1:B:483:SER:HB2	1.58	1.02
1:D:479:GLN:O	1:D:483:SER:HB2	1.59	1.02
1:D:468:LEU:HD12	1:D:469:PRO:HD2	1.41	1.02
1:C:468:LEU:HD12	1:C:469:PRO:HD2	1.41	1.01
1:E:479:GLN:O	1:E:483:SER:HB2	1.58	1.01
1:C:68:ARG:HG2	1:C:68:ARG:HH11	1.25	1.01
1:D:444:MET:HE1	1:D:561:VAL:HG21	1.39	1.01
1:A:68:ARG:HG2	1:A:68:ARG:HH11	1.26	1.01
1:A:479:GLN:O	1:A:483:SER:HB2	1.59	1.01
1:A:444:MET:HE1	1:A:561:VAL:HG21	1.39	1.01
1:B:197:ARG:HE	1:B:198:GLN:NE2	1.59	1.01
3:F:341:THR:CG2	3:M:739:PRO:CG	2.39	1.00
1:A:197:ARG:HE	1:A:198:GLN:NE2	1.59	1.00
1:A:490:THR:CG2	1:B:481:VAL:HG12	1.91	1.00
3:F:341:THR:HG22	3:M:739:PRO:HG2	1.39	1.00
3:F:73:GLU:CD	3:L:68:ILE:CG1	2.33	1.00
3:L:73:GLU:HG2	3:Q:68:ILE:HG21	1.03	1.00
1:A:483:SER:O	1:A:487:ARG:N	1.95	1.00
1:D:68:ARG:HG2	1:D:68:ARG:HH11	1.26	1.00
1:C:483:SER:O	1:C:487:ARG:N	1.95	1.00
1:B:483:SER:O	1:B:487:ARG:N	1.95	0.99
1:C:197:ARG:HE	1:C:198:GLN:NE2	1.59	0.99
1:A:468:LEU:HD12	1:A:469:PRO:HD2	1.41	0.99
1:E:197:ARG:HE	1:E:198:GLN:NE2	1.59	0.99
1:E:468:LEU:HD12	1:E:469:PRO:HD2	1.41	0.99
1:A:486:ILE:HG21	1:B:482:TYR:CE1	1.97	0.99
1:C:490:THR:HG23	1:D:481:VAL:HG12	1.46	0.98
1:D:197:ARG:HE	1:D:198:GLN:NE2	1.59	0.98
1:D:492:LEU:HB2	1:E:230:VAL:HG11	1.45	0.98
1:A:490:THR:HG23	1:B:481:VAL:HG12	1.46	0.98
1:B:68:ARG:HG2	1:B:68:ARG:HH11	1.26	0.98
1:B:468:LEU:HD12	1:B:469:PRO:HD2	1.41	0.98
1:A:481:VAL:HG12	1:E:490:THR:HG23	1.46	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:483:SER:O	1:D:487:ARG:N	1.95	0.98
1:D:486:ILE:HG21	1:E:482:TYR:CE1	1.99	0.98
1:E:483:SER:O	1:E:487:ARG:N	1.95	0.98
1:E:68:ARG:HH11	1:E:68:ARG:HG2	1.26	0.97
3:L:667:PRO:HG2	3:O:726:SER:CB	1.93	0.97
1:B:479:GLN:O	1:B:483:SER:CB	2.13	0.96
1:D:479:GLN:O	1:D:483:SER:CB	2.13	0.96
1:C:479:GLN:O	1:C:483:SER:CB	2.13	0.96
1:C:197:ARG:HE	1:C:198:GLN:HE21	1.05	0.96
1:A:481:VAL:HG12	1:E:490:THR:CG2	1.94	0.96
1:A:479:GLN:O	1:A:483:SER:CB	2.13	0.96
1:E:197:ARG:HE	1:E:198:GLN:HE21	1.05	0.95
1:C:492:LEU:HB2	1:D:230:VAL:HG11	1.47	0.95
1:E:479:GLN:O	1:E:483:SER:CB	2.13	0.95
3:L:341:THR:HG21	3:O:739:PRO:HG2	0.99	0.95
1:A:482:TYR:CE1	1:E:486:ILE:HG21	2.00	0.95
3:L:73:GLU:HG2	3:Q:68:ILE:CG2	1.96	0.95
1:B:132:PRO:HA	1:B:175:TYR:OH	1.67	0.94
1:C:490:THR:CG2	1:D:481:VAL:HG12	1.97	0.94
1:C:230:VAL:HG13	1:C:503:GLN:NE2	1.83	0.94
1:B:197:ARG:HE	1:B:198:GLN:HE21	1.05	0.94
1:E:230:VAL:HG13	1:E:503:GLN:NE2	1.83	0.94
1:D:490:THR:CG2	1:E:481:VAL:HG12	1.96	0.94
1:A:230:VAL:HG11	1:E:492:LEU:HB2	1.48	0.94
1:D:230:VAL:HG13	1:D:503:GLN:NE2	1.83	0.94
1:C:132:PRO:HA	1:C:175:TYR:OH	1.67	0.94
1:A:132:PRO:HA	1:A:175:TYR:OH	1.67	0.93
3:F:739:PRO:CG	3:I:341:THR:CG2	2.47	0.93
1:A:197:ARG:HE	1:A:198:GLN:HE21	1.05	0.93
1:E:132:PRO:HA	1:E:175:TYR:OH	1.67	0.93
1:A:230:VAL:HG13	1:A:503:GLN:NE2	1.83	0.93
1:D:197:ARG:HE	1:D:198:GLN:HE21	1.05	0.92
3:F:341:THR:HG22	3:M:739:PRO:CG	1.98	0.92
1:B:230:VAL:HG13	1:B:503:GLN:NE2	1.83	0.92
3:J:664:ILE:HD11	3:J:902:MET:HE3	1.52	0.92
3:G:664:ILE:HD11	3:G:902:MET:HE3	1.52	0.92
1:D:490:THR:HG23	1:E:481:VAL:HG12	1.49	0.92
3:J:499:THR:HG22	3:J:502:TYR:H	1.35	0.92
3:N:664:ILE:HD11	3:N:902:MET:HE3	1.52	0.92
3:H:499:THR:HG22	3:H:502:TYR:H	1.35	0.92
1:D:132:PRO:HA	1:D:175:TYR:OH	1.67	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:499:THR:HG22	3:L:502:TYR:H	1.35	0.91
3:O:664:ILE:HD11	3:O:902:MET:HE3	1.52	0.91
3:I:664:ILE:HD11	3:I:902:MET:HE3	1.52	0.91
1:B:68:ARG:HH12	1:B:562:SER:HB3	1.36	0.91
3:F:499:THR:HG22	3:F:502:TYR:H	1.35	0.91
3:F:664:ILE:HD11	3:F:902:MET:HE3	1.52	0.91
3:I:499:THR:HG22	3:I:502:TYR:H	1.35	0.91
3:L:664:ILE:HD11	3:L:902:MET:HE3	1.52	0.91
1:A:486:ILE:CG2	1:B:482:TYR:CE1	2.55	0.90
3:Q:664:ILE:HD11	3:Q:902:MET:HE3	1.52	0.90
3:K:499:THR:HG22	3:K:502:TYR:H	1.35	0.90
3:O:499:THR:HG22	3:O:502:TYR:H	1.35	0.90
3:L:73:GLU:CD	3:Q:68:ILE:HG21	1.97	0.90
3:K:664:ILE:HD11	3:K:902:MET:HE3	1.51	0.90
3:K:746:ARG:NH1	3:K:753:TYR:HB2	1.87	0.90
3:P:664:ILE:HD11	3:P:902:MET:HE3	1.52	0.90
1:A:274:THR:HG22	1:A:276:ASP:H	1.37	0.90
3:L:746:ARG:NH1	3:L:753:TYR:HB2	1.87	0.90
3:G:499:THR:HG22	3:G:502:TYR:H	1.35	0.89
3:M:746:ARG:NH1	3:M:753:TYR:HB2	1.88	0.89
3:O:746:ARG:NH1	3:O:753:TYR:HB2	1.87	0.89
3:P:746:ARG:NH1	3:P:753:TYR:HB2	1.87	0.89
3:P:499:THR:HG22	3:P:502:TYR:H	1.35	0.89
3:Q:746:ARG:NH1	3:Q:753:TYR:HB2	1.87	0.89
3:F:746:ARG:NH1	3:F:753:TYR:HB2	1.87	0.89
3:N:746:ARG:NH1	3:N:753:TYR:HB2	1.87	0.89
1:B:274:THR:HG22	1:B:276:ASP:H	1.37	0.89
3:N:362:ASP:HB3	3:N:941:ARG:HH22	1.38	0.89
3:M:499:THR:HG22	3:M:502:TYR:H	1.35	0.89
1:C:68:ARG:HH12	1:C:562:SER:HB3	1.36	0.89
3:H:362:ASP:HB3	3:H:941:ARG:HH22	1.38	0.89
3:H:664:ILE:HD11	3:H:902:MET:HE3	1.52	0.89
3:K:68:ILE:CG1	3:M:73:GLU:OE1	2.20	0.89
1:D:83:ASN:HA	1:D:86:ASN:HD22	1.38	0.89
3:G:746:ARG:NH1	3:G:753:TYR:HB2	1.88	0.88
3:H:746:ARG:NH1	3:H:753:TYR:HB2	1.87	0.88
3:F:73:GLU:OE1	3:L:68:ILE:CG1	2.21	0.88
1:E:274:THR:HG22	1:E:276:ASP:H	1.37	0.88
3:Q:499:THR:HG22	3:Q:502:TYR:H	1.35	0.88
3:M:362:ASP:HB3	3:M:941:ARG:HH22	1.38	0.88
1:C:275:TYR:CE1	1:C:404:ARG:HD3	2.09	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:275:TYR:CE1	1:D:404:ARG:HD3	2.09	0.88
3:F:362:ASP:HB3	3:F:941:ARG:HH22	1.38	0.88
3:K:362:ASP:HB3	3:K:941:ARG:HH22	1.38	0.88
1:A:275:TYR:CE1	1:A:404:ARG:HD3	2.09	0.88
1:C:83:ASN:HA	1:C:86:ASN:HD22	1.38	0.88
3:M:664:ILE:HD11	3:M:902:MET:HE3	1.52	0.88
1:A:83:ASN:HA	1:A:86:ASN:HD22	1.38	0.88
3:L:362:ASP:HB3	3:L:941:ARG:HH22	1.38	0.88
3:J:746:ARG:NH1	3:J:753:TYR:HB2	1.88	0.88
1:C:274:THR:HG22	1:C:276:ASP:H	1.37	0.88
3:I:746:ARG:NH1	3:I:753:TYR:HB2	1.87	0.87
1:D:274:THR:HG22	1:D:276:ASP:H	1.37	0.87
3:N:499:THR:HG22	3:N:502:TYR:H	1.35	0.87
1:A:379:ILE:O	1:A:381:PRO:HD3	1.75	0.87
1:E:275:TYR:CE1	1:E:404:ARG:HD3	2.09	0.87
1:C:217:LEU:HB2	1:C:232:THR:HG21	1.57	0.87
3:G:362:ASP:HB3	3:G:941:ARG:HH22	1.38	0.87
3:O:362:ASP:HB3	3:O:941:ARG:HH22	1.38	0.87
1:B:83:ASN:HA	1:B:86:ASN:HD22	1.38	0.87
1:B:379:ILE:O	1:B:381:PRO:HD3	1.75	0.87
3:Q:362:ASP:HB3	3:Q:941:ARG:HH22	1.38	0.87
3:I:362:ASP:HB3	3:I:941:ARG:HH22	1.38	0.87
3:L:73:GLU:CD	3:Q:68:ILE:CG2	2.44	0.87
3:J:59:ARG:HH12	3:J:623:HIS:H	1.23	0.87
3:P:362:ASP:HB3	3:P:941:ARG:HH22	1.38	0.87
1:A:68:ARG:HH12	1:A:562:SER:HB3	1.36	0.87
1:B:217:LEU:HB2	1:B:232:THR:HG21	1.57	0.87
3:L:341:THR:HG22	3:O:739:PRO:CG	2.03	0.87
1:D:379:ILE:O	1:D:381:PRO:HD3	1.75	0.86
3:K:68:ILE:HG13	3:M:73:GLU:CD	2.00	0.86
1:B:275:TYR:CE1	1:B:404:ARG:HD3	2.09	0.86
1:C:379:ILE:O	1:C:381:PRO:HD3	1.75	0.86
3:O:59:ARG:HH12	3:O:623:HIS:H	1.23	0.86
1:C:100:ASP:OD2	1:D:452:ARG:NH1	2.09	0.86
3:F:341:THR:HG21	3:M:739:PRO:CG	2.02	0.86
3:F:739:PRO:HG2	3:I:341:THR:HG22	1.54	0.86
1:E:68:ARG:HH12	1:E:562:SER:HB3	1.36	0.86
3:L:59:ARG:HH12	3:L:623:HIS:H	1.23	0.86
1:A:217:LEU:HB2	1:A:232:THR:HG21	1.57	0.86
3:G:59:ARG:HH12	3:G:623:HIS:H	1.23	0.86
1:C:486:ILE:HG21	1:D:482:TYR:CE1	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:217:LEU:HB2	1:D:232:THR:HG21	1.57	0.86
3:H:68:ILE:CG1	3:I:73:GLU:CD	2.48	0.86
3:F:59:ARG:HH12	3:F:623:HIS:H	1.23	0.85
1:A:85:GLN:NE2	3:P:692:SER:CB	2.38	0.85
1:E:83:ASN:HA	1:E:86:ASN:HD22	1.38	0.85
1:E:379:ILE:O	1:E:381:PRO:HD3	1.75	0.85
3:J:218:ALA:HB3	3:J:283:VAL:HG22	1.59	0.85
3:K:218:ALA:HB3	3:K:283:VAL:HG22	1.58	0.85
3:I:218:ALA:HB3	3:I:283:VAL:HG22	1.59	0.85
3:K:59:ARG:HH12	3:K:623:HIS:H	1.23	0.85
3:G:841:TYR:CD2	3:G:842:PRO:HD2	2.12	0.85
3:H:59:ARG:HH12	3:H:623:HIS:H	1.23	0.85
3:J:362:ASP:HB3	3:J:941:ARG:HH22	1.38	0.85
3:N:841:TYR:CD2	3:N:842:PRO:HD2	2.12	0.85
3:P:841:TYR:CD2	3:P:842:PRO:HD2	2.12	0.85
1:E:528:THR:HG21	1:E:564:ARG:HH21	1.42	0.85
3:H:218:ALA:HB3	3:H:283:VAL:HG22	1.58	0.85
3:I:841:TYR:CD2	3:I:842:PRO:HD2	2.12	0.85
3:J:841:TYR:CD2	3:J:842:PRO:HD2	2.12	0.84
1:A:486:ILE:HG21	1:B:482:TYR:CD1	2.11	0.84
1:C:475:PHE:O	1:C:513:ILE:HA	1.77	0.84
1:D:475:PHE:O	1:D:513:ILE:HA	1.77	0.84
3:O:218:ALA:HB3	3:O:283:VAL:HG22	1.58	0.84
3:O:841:TYR:CD2	3:O:842:PRO:HD2	2.12	0.84
3:Q:59:ARG:HH12	3:Q:623:HIS:H	1.23	0.84
1:B:475:PHE:O	1:B:513:ILE:HA	1.77	0.84
1:C:528:THR:HG21	1:C:564:ARG:HH21	1.42	0.84
1:B:100:ASP:OD2	1:C:452:ARG:NH1	2.09	0.84
1:B:528:THR:HG21	1:B:564:ARG:HH21	1.42	0.84
3:H:841:TYR:CD2	3:H:842:PRO:HD2	2.12	0.84
3:L:218:ALA:HB3	3:L:283:VAL:HG22	1.58	0.84
3:L:841:TYR:CD2	3:L:842:PRO:HD2	2.12	0.84
1:E:217:LEU:HB2	1:E:232:THR:HG21	1.57	0.84
3:N:218:ALA:HB3	3:N:283:VAL:HG22	1.58	0.84
3:Q:841:TYR:CD2	3:Q:842:PRO:HD2	2.12	0.84
1:A:528:THR:HG21	1:A:564:ARG:HH21	1.42	0.83
3:F:218:ALA:HB3	3:F:283:VAL:HG22	1.59	0.83
3:Q:218:ALA:HB3	3:Q:283:VAL:HG22	1.58	0.83
3:G:218:ALA:HB3	3:G:283:VAL:HG22	1.59	0.83
3:P:218:ALA:HB3	3:P:283:VAL:HG22	1.59	0.83
1:A:475:PHE:O	1:A:513:ILE:HA	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:475:PHE:O	1:E:513:ILE:HA	1.77	0.83
3:M:841:TYR:CD2	3:M:842:PRO:HD2	2.12	0.83
3:P:59:ARG:HH12	3:P:623:HIS:H	1.23	0.83
1:A:490:THR:HG23	1:B:481:VAL:O	1.78	0.83
1:C:487:ARG:NE	1:D:234:GLU:OE2	2.12	0.83
3:F:841:TYR:CD2	3:F:842:PRO:HD2	2.12	0.83
3:M:59:ARG:HH12	3:M:623:HIS:H	1.23	0.83
3:I:739:PRO:HG2	3:M:341:THR:HG22	1.59	0.83
3:K:841:TYR:CD2	3:K:842:PRO:HD2	2.12	0.83
3:L:178:ILE:HD13	3:L:284:VAL:HG12	1.61	0.83
3:I:178:ILE:HD13	3:I:284:VAL:HG12	1.61	0.83
3:Q:178:ILE:HD13	3:Q:284:VAL:HG12	1.61	0.83
1:D:487:ARG:NE	1:E:234:GLU:OE2	2.12	0.82
1:D:68:ARG:HH12	1:D:562:SER:HB3	1.36	0.82
3:H:178:ILE:HD13	3:H:284:VAL:HG12	1.61	0.82
3:I:739:PRO:CG	3:M:341:THR:CG2	2.57	0.82
3:P:178:ILE:HD13	3:P:284:VAL:HG12	1.61	0.82
1:D:179:MET:HE2	1:D:487:ARG:NH2	1.95	0.82
3:I:59:ARG:HH12	3:I:623:HIS:H	1.24	0.82
3:M:218:ALA:HB3	3:M:283:VAL:HG22	1.59	0.82
3:G:178:ILE:HD13	3:G:284:VAL:HG12	1.61	0.82
3:L:341:THR:HG22	3:O:739:PRO:HG3	1.62	0.82
1:C:67:THR:HG21	1:D:449:VAL:HG22	1.61	0.82
1:E:179:MET:HE2	1:E:487:ARG:NH2	1.95	0.82
3:L:341:THR:CG2	3:O:739:PRO:HG3	2.07	0.82
3:O:178:ILE:HD13	3:O:284:VAL:HG12	1.61	0.82
1:A:85:GLN:HE22	3:P:692:SER:HB2	1.39	0.82
3:M:178:ILE:HD13	3:M:284:VAL:HG12	1.61	0.81
1:A:486:ILE:CG2	1:B:482:TYR:CD1	2.63	0.81
3:F:413:CYS:SG	3:F:459:MET:HB2	2.21	0.81
3:K:68:ILE:CG1	3:M:73:GLU:CD	2.53	0.81
3:K:91:ARG:HG3	3:K:91:ARG:HH11	1.46	0.81
1:E:544:THR:CG2	1:E:548:ARG:HA	2.10	0.81
3:L:91:ARG:HH11	3:L:91:ARG:HG3	1.46	0.81
3:N:59:ARG:HH12	3:N:623:HIS:H	1.23	0.81
3:G:413:CYS:SG	3:G:459:MET:HB2	2.21	0.81
3:N:413:CYS:SG	3:N:459:MET:HB2	2.21	0.81
3:P:413:CYS:SG	3:P:459:MET:HB2	2.21	0.81
3:H:413:CYS:SG	3:H:459:MET:HB2	2.21	0.81
1:A:234:GLU:OE2	1:E:487:ARG:NE	2.14	0.81
3:G:91:ARG:HH11	3:G:91:ARG:HG3	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:133:GLU:HG2	3:L:167:VAL:HG22	1.63	0.81
1:B:179:MET:HE2	1:B:487:ARG:NH2	1.95	0.81
1:D:528:THR:HG21	1:D:564:ARG:HH21	1.42	0.81
3:F:178:ILE:HD13	3:F:284:VAL:HG12	1.61	0.81
3:J:133:GLU:HG2	3:J:167:VAL:HG22	1.63	0.81
3:J:178:ILE:HD13	3:J:284:VAL:HG12	1.61	0.81
3:N:133:GLU:HG2	3:N:167:VAL:HG22	1.63	0.81
3:O:133:GLU:HG2	3:O:167:VAL:HG22	1.63	0.81
3:Q:133:GLU:HG2	3:Q:167:VAL:HG22	1.63	0.81
1:B:490:THR:HG23	1:C:481:VAL:HG12	1.62	0.81
1:B:544:THR:CG2	1:B:548:ARG:HA	2.10	0.81
3:M:413:CYS:SG	3:M:459:MET:HB2	2.21	0.81
3:N:91:ARG:HG3	3:N:91:ARG:HH11	1.46	0.81
3:N:178:ILE:HD13	3:N:284:VAL:HG12	1.61	0.81
1:C:544:THR:CG2	1:C:548:ARG:HA	2.10	0.80
1:D:544:THR:CG2	1:D:548:ARG:HA	2.10	0.80
3:I:133:GLU:HG2	3:I:167:VAL:HG22	1.63	0.80
3:F:133:GLU:HG2	3:F:167:VAL:HG22	1.63	0.80
3:G:133:GLU:HG2	3:G:167:VAL:HG22	1.63	0.80
3:M:133:GLU:HG2	3:M:167:VAL:HG22	1.63	0.80
3:O:413:CYS:SG	3:O:459:MET:HB2	2.21	0.80
3:P:91:ARG:HH11	3:P:91:ARG:HG3	1.46	0.80
3:Q:929:ARG:NH1	3:Q:929:ARG:HB2	1.96	0.80
1:A:544:THR:CG2	1:A:548:ARG:HA	2.10	0.80
1:C:492:LEU:CB	1:D:230:VAL:HG11	2.11	0.80
3:H:929:ARG:HB2	3:H:929:ARG:NH1	1.96	0.80
3:I:413:CYS:SG	3:I:459:MET:HB2	2.21	0.80
3:K:413:CYS:SG	3:K:459:MET:HB2	2.21	0.80
1:C:179:MET:HE2	1:C:487:ARG:NH2	1.95	0.80
3:F:91:ARG:HG3	3:F:91:ARG:HH11	1.46	0.80
3:K:178:ILE:HD13	3:K:284:VAL:HG12	1.61	0.80
1:A:179:MET:HE2	1:A:487:ARG:NH2	1.95	0.80
3:O:91:ARG:HH11	3:O:91:ARG:HG3	1.46	0.80
3:Q:413:CYS:SG	3:Q:459:MET:HB2	2.21	0.80
3:F:929:ARG:NH1	3:F:929:ARG:HB2	1.96	0.80
3:L:669:ARG:HH22	3:O:727:SER:HB3	1.47	0.80
1:B:197:ARG:NE	1:B:198:GLN:HE21	1.80	0.80
1:D:492:LEU:CB	1:E:230:VAL:HG11	2.12	0.80
3:O:929:ARG:NH1	3:O:929:ARG:HB2	1.96	0.80
1:C:197:ARG:NE	1:C:198:GLN:HE21	1.80	0.80
3:I:91:ARG:HH11	3:I:91:ARG:HG3	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:91:ARG:HG3	3:Q:91:ARG:HH11	1.46	0.80
3:I:929:ARG:NH1	3:I:929:ARG:HB2	1.96	0.80
3:J:929:ARG:NH1	3:J:929:ARG:HB2	1.96	0.80
3:K:929:ARG:NH1	3:K:929:ARG:HB2	1.96	0.80
3:N:929:ARG:NH1	3:N:929:ARG:HB2	1.96	0.80
1:A:492:LEU:HB2	1:B:230:VAL:HG11	1.62	0.79
3:L:929:ARG:NH1	3:L:929:ARG:HB2	1.96	0.79
3:J:413:CYS:SG	3:J:459:MET:HB2	2.21	0.79
1:D:197:ARG:NE	1:D:198:GLN:HE21	1.80	0.79
3:M:929:ARG:NH1	3:M:929:ARG:HB2	1.96	0.79
3:N:313:LEU:O	3:N:316:GLN:HG2	1.83	0.79
3:L:413:CYS:SG	3:L:459:MET:HB2	2.21	0.79
3:G:313:LEU:O	3:G:316:GLN:HG2	1.83	0.79
3:M:91:ARG:HH11	3:M:91:ARG:HG3	1.46	0.79
3:M:313:LEU:O	3:M:316:GLN:HG2	1.83	0.79
3:I:313:LEU:O	3:I:316:GLN:HG2	1.83	0.79
1:D:104:GLY:O	1:D:107:SER:HB3	1.83	0.79
1:E:197:ARG:NE	1:E:198:GLN:HE21	1.80	0.79
3:G:929:ARG:NH1	3:G:929:ARG:HB2	1.96	0.79
3:H:91:ARG:HH11	3:H:91:ARG:HG3	1.46	0.79
3:L:313:LEU:O	3:L:316:GLN:HG2	1.83	0.79
1:A:67:THR:HG21	1:B:449:VAL:HG22	1.65	0.79
1:A:468:LEU:HD12	1:A:469:PRO:CD	2.12	0.79
1:D:486:ILE:CG2	1:E:482:TYR:CE1	2.66	0.79
1:E:230:VAL:HG13	1:E:503:GLN:HE22	1.47	0.79
3:P:929:ARG:HB2	3:P:929:ARG:NH1	1.96	0.79
1:C:468:LEU:HD12	1:C:469:PRO:CD	2.12	0.79
3:O:313:LEU:O	3:O:316:GLN:HG2	1.83	0.79
1:B:104:GLY:O	1:B:107:SER:HB3	1.83	0.79
3:J:313:LEU:O	3:J:316:GLN:HG2	1.83	0.79
3:P:133:GLU:HG2	3:P:167:VAL:HG22	1.63	0.79
1:A:197:ARG:NE	1:A:198:GLN:HE21	1.80	0.78
1:A:230:VAL:HG11	1:E:492:LEU:CB	2.14	0.78
1:D:100:ASP:OD2	1:E:452:ARG:NH1	2.15	0.78
1:A:482:TYR:CE1	1:E:486:ILE:CG2	2.65	0.78
1:E:468:LEU:HD12	1:E:469:PRO:CD	2.12	0.78
3:P:313:LEU:O	3:P:316:GLN:HG2	1.83	0.78
1:A:217:LEU:HB2	1:A:232:THR:CG2	2.14	0.78
1:C:68:ARG:NH1	1:C:68:ARG:HG2	1.97	0.78
3:F:313:LEU:O	3:F:316:GLN:HG2	1.83	0.78
3:Q:313:LEU:O	3:Q:316:GLN:HG2	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:217:LEU:HB2	1:B:232:THR:CG2	2.14	0.78
1:D:217:LEU:HB2	1:D:232:THR:CG2	2.14	0.78
1:D:468:LEU:HD12	1:D:469:PRO:CD	2.12	0.78
3:K:313:LEU:O	3:K:316:GLN:HG2	1.83	0.78
1:A:403:TYR:CD1	1:A:504:ILE:HG12	2.19	0.78
1:B:230:VAL:HG13	1:B:503:GLN:HE22	1.47	0.78
3:J:91:ARG:HH11	3:J:91:ARG:HG3	1.46	0.78
1:D:68:ARG:NH1	1:D:68:ARG:HG2	1.97	0.78
3:H:313:LEU:O	3:H:316:GLN:HG2	1.83	0.78
3:O:853:THR:HG21	3:Q:293:GLU:OE1	1.84	0.78
1:A:68:ARG:NH1	1:A:68:ARG:HG2	1.97	0.78
1:A:104:GLY:O	1:A:107:SER:HB3	1.83	0.78
1:B:403:TYR:CD1	1:B:504:ILE:HG12	2.19	0.78
3:H:133:GLU:HG2	3:H:167:VAL:HG22	1.63	0.78
1:B:490:THR:CG2	1:C:481:VAL:HG12	2.14	0.78
3:I:293:GLU:OE1	3:J:853:THR:HG21	1.84	0.78
1:D:403:TYR:CD1	1:D:504:ILE:HG12	2.19	0.78
1:E:104:GLY:O	1:E:107:SER:HB3	1.83	0.78
3:K:133:GLU:HG2	3:K:167:VAL:HG22	1.63	0.78
3:L:667:PRO:CG	3:O:726:SER:CB	2.61	0.78
1:B:468:LEU:HD12	1:B:469:PRO:CD	2.13	0.78
1:C:217:LEU:HB2	1:C:232:THR:CG2	2.14	0.78
1:E:217:LEU:HB2	1:E:232:THR:CG2	2.14	0.78
3:F:293:GLU:OE1	3:G:853:THR:HG21	1.84	0.77
3:F:853:THR:HG21	3:H:293:GLU:OE1	1.84	0.77
3:H:805:VAL:HG13	3:H:855:VAL:HG21	1.66	0.77
3:J:293:GLU:OE1	3:K:853:THR:HG21	1.84	0.77
3:G:805:VAL:HG13	3:G:855:VAL:HG21	1.66	0.77
3:M:805:VAL:HG13	3:M:855:VAL:HG21	1.66	0.77
1:A:230:VAL:HG13	1:A:503:GLN:HE22	1.47	0.77
1:A:482:TYR:CD1	1:E:486:ILE:HG21	2.19	0.77
3:G:293:GLU:OE1	3:H:853:THR:HG21	1.84	0.77
3:L:293:GLU:OE1	3:M:853:THR:HG21	1.84	0.77
1:C:104:GLY:O	1:C:107:SER:HB3	1.83	0.77
3:F:805:VAL:HG13	3:F:855:VAL:HG21	1.66	0.77
3:L:30:PHE:CE1	3:L:34:THR:HG21	2.20	0.77
3:N:30:PHE:CE1	3:N:34:THR:HG21	2.20	0.77
3:P:30:PHE:CE1	3:P:34:THR:HG21	2.20	0.77
3:P:293:GLU:OE1	3:Q:853:THR:HG21	1.84	0.77
3:Q:30:PHE:CE1	3:Q:34:THR:HG21	2.20	0.77
3:I:853:THR:HG21	3:K:293:GLU:OE1	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:30:PHE:CE1	3:J:34:THR:HG21	2.20	0.77
3:O:293:GLU:OE1	3:P:853:THR:HG21	1.84	0.77
1:B:68:ARG:NH1	1:B:68:ARG:HG2	1.97	0.77
1:E:68:ARG:NH1	1:E:68:ARG:HG2	1.97	0.77
1:E:214:ASN:C	1:E:214:ASN:HD22	1.93	0.77
1:E:403:TYR:CD1	1:E:504:ILE:HG12	2.19	0.77
3:I:30:PHE:CE1	3:I:34:THR:HG21	2.20	0.77
3:L:45:ARG:HG2	3:M:641:SER:OG	1.85	0.77
3:M:45:ARG:HG2	3:N:641:SER:OG	1.85	0.77
3:M:293:GLU:OE1	3:N:853:THR:HG21	1.84	0.77
3:Q:805:VAL:HG13	3:Q:855:VAL:HG21	1.66	0.77
1:C:403:TYR:CD1	1:C:504:ILE:HG12	2.19	0.77
1:A:145:ALA:HB3	1:A:168:PHE:HE1	1.50	0.77
3:F:45:ARG:HG2	3:G:641:SER:OG	1.85	0.77
3:G:45:ARG:HG2	3:H:641:SER:OG	1.85	0.77
3:I:641:SER:OG	3:K:45:ARG:HG2	1.85	0.77
3:M:30:PHE:CE1	3:M:34:THR:HG21	2.20	0.77
3:O:30:PHE:CE1	3:O:34:THR:HG21	2.20	0.77
3:J:805:VAL:HG13	3:J:855:VAL:HG21	1.66	0.76
3:O:805:VAL:HG13	3:O:855:VAL:HG21	1.66	0.76
3:G:30:PHE:CE1	3:G:34:THR:HG21	2.20	0.76
3:K:30:PHE:CE1	3:K:34:THR:HG21	2.20	0.76
3:K:805:VAL:HG13	3:K:855:VAL:HG21	1.66	0.76
1:B:378:VAL:HG23	1:B:379:ILE:N	2.01	0.76
3:J:45:ARG:HG2	3:K:641:SER:OG	1.85	0.76
3:O:45:ARG:HG2	3:P:641:SER:OG	1.85	0.76
1:C:145:ALA:HB3	1:C:168:PHE:HE1	1.50	0.76
3:F:641:SER:OG	3:H:45:ARG:HG2	1.85	0.76
1:E:378:VAL:HG23	1:E:379:ILE:N	2.01	0.76
3:F:739:PRO:CG	3:I:341:THR:HG22	2.12	0.76
3:H:30:PHE:CE1	3:H:34:THR:HG21	2.20	0.76
3:I:739:PRO:CG	3:M:341:THR:HG22	2.15	0.76
3:P:45:ARG:HG2	3:Q:641:SER:OG	1.85	0.76
1:A:135:ASN:HA	1:A:172:GLU:HG2	1.68	0.76
1:D:230:VAL:HG13	1:D:503:GLN:HE22	1.47	0.76
1:D:378:VAL:HG23	1:D:379:ILE:N	2.01	0.76
3:L:641:SER:OG	3:N:45:ARG:HG2	1.85	0.76
3:L:853:THR:HG21	3:N:293:GLU:OE1	1.84	0.76
3:N:805:VAL:HG13	3:N:855:VAL:HG21	1.66	0.76
1:C:230:VAL:HG13	1:C:503:GLN:HE22	1.47	0.76
1:C:378:VAL:HG23	1:C:379:ILE:N	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:145:ALA:HB3	1:D:168:PHE:HE1	1.50	0.76
3:I:45:ARG:HG2	3:J:641:SER:OG	1.85	0.76
3:F:739:PRO:CG	3:I:341:THR:HG21	2.04	0.76
3:L:805:VAL:HG13	3:L:855:VAL:HG21	1.66	0.76
1:B:96:ILE:HG22	1:B:98:ASN:H	1.51	0.75
1:B:135:ASN:HA	1:B:172:GLU:HG2	1.68	0.75
1:D:214:ASN:C	1:D:214:ASN:HD22	1.93	0.75
3:F:30:PHE:CE1	3:F:34:THR:HG21	2.20	0.75
3:O:641:SER:OG	3:Q:45:ARG:HG2	1.85	0.75
1:B:111:ILE:HD13	1:C:449:VAL:HG11	1.67	0.75
1:A:96:ILE:HG22	1:A:98:ASN:H	1.51	0.75
1:A:214:ASN:C	1:A:214:ASN:HD22	1.93	0.75
1:B:145:ALA:HB3	1:B:168:PHE:HE1	1.50	0.75
1:A:134:VAL:HG13	1:A:140:THR:O	1.87	0.75
1:C:134:VAL:HG13	1:C:140:THR:O	1.87	0.75
1:B:134:VAL:HG13	1:B:140:THR:O	1.87	0.75
3:P:805:VAL:HG13	3:P:855:VAL:HG21	1.66	0.75
1:E:146:ARG:O	1:E:246:CYS:HB2	1.87	0.75
3:H:578:TYR:CD2	3:H:935:ILE:HD11	2.22	0.75
1:C:96:ILE:HG22	1:C:98:ASN:H	1.51	0.75
1:E:528:THR:HG21	1:E:564:ARG:NH2	2.02	0.75
1:E:544:THR:HG22	1:E:548:ARG:HA	1.69	0.75
3:I:805:VAL:HG13	3:I:855:VAL:HG21	1.66	0.75
3:K:578:TYR:CD2	3:K:935:ILE:HD11	2.22	0.75
1:D:528:THR:HG21	1:D:564:ARG:NH2	2.02	0.75
1:E:96:ILE:HG22	1:E:98:ASN:H	1.51	0.75
3:Q:578:TYR:CD2	3:Q:935:ILE:HD11	2.22	0.74
1:A:146:ARG:O	1:A:246:CYS:HB2	1.87	0.74
1:D:146:ARG:O	1:D:246:CYS:HB2	1.87	0.74
1:E:134:VAL:HG13	1:E:140:THR:O	1.87	0.74
1:E:135:ASN:HA	1:E:172:GLU:HG2	1.68	0.74
3:F:578:TYR:CD2	3:F:935:ILE:HD11	2.22	0.74
3:I:574:LEU:HG	3:I:929:ARG:HE	1.53	0.74
3:L:574:LEU:HG	3:L:929:ARG:HE	1.52	0.74
3:L:578:TYR:CD2	3:L:935:ILE:HD11	2.22	0.74
3:M:578:TYR:CD2	3:M:935:ILE:HD11	2.22	0.74
1:B:146:ARG:O	1:B:246:CYS:HB2	1.87	0.74
1:C:277:ASP:HB3	1:C:419:ILE:HD11	1.70	0.74
1:D:96:ILE:HG22	1:D:98:ASN:H	1.51	0.74
3:F:574:LEU:HG	3:F:929:ARG:HE	1.53	0.74
1:C:553:TYR:CE2	1:D:424:LEU:HD21	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:578:TYR:CD2	3:J:935:ILE:HD11	2.22	0.74
1:B:528:THR:HG21	1:B:564:ARG:NH2	2.02	0.74
1:E:277:ASP:HB3	1:E:419:ILE:HD11	1.70	0.74
1:A:277:ASP:HB3	1:A:419:ILE:HD11	1.70	0.74
1:C:135:ASN:HA	1:C:172:GLU:HG2	1.68	0.74
1:C:146:ARG:O	1:C:246:CYS:HB2	1.87	0.74
1:D:486:ILE:HG21	1:E:482:TYR:CD1	2.22	0.74
1:E:145:ALA:HB3	1:E:168:PHE:HE1	1.50	0.74
3:G:578:TYR:CD2	3:G:935:ILE:HD11	2.22	0.74
3:H:805:VAL:CG1	3:H:855:VAL:HG21	2.18	0.74
1:A:378:VAL:HG23	1:A:379:ILE:N	2.01	0.74
3:J:574:LEU:HG	3:J:929:ARG:HE	1.53	0.74
1:A:544:THR:HG22	1:A:548:ARG:HA	1.69	0.74
3:G:805:VAL:CG1	3:G:855:VAL:HG21	2.18	0.74
3:N:805:VAL:CG1	3:N:855:VAL:HG21	2.18	0.74
3:O:578:TYR:CD2	3:O:935:ILE:HD11	2.23	0.74
3:H:574:LEU:HG	3:H:929:ARG:HE	1.53	0.73
3:P:574:LEU:HG	3:P:929:ARG:HE	1.53	0.73
1:A:452:ARG:NH1	1:E:100:ASP:OD2	2.22	0.73
1:D:135:ASN:HA	1:D:172:GLU:HG2	1.68	0.73
3:J:805:VAL:CG1	3:J:855:VAL:HG21	2.18	0.73
3:N:578:TYR:CD2	3:N:935:ILE:HD11	2.22	0.73
1:A:490:THR:HG22	1:B:481:VAL:HG12	1.70	0.73
1:C:214:ASN:HD22	1:C:214:ASN:C	1.92	0.73
1:D:134:VAL:HG13	1:D:140:THR:O	1.87	0.73
3:F:73:GLU:OE2	3:L:68:ILE:CG1	2.36	0.73
3:M:805:VAL:CG1	3:M:855:VAL:HG21	2.18	0.73
3:P:578:TYR:CD2	3:P:935:ILE:HD11	2.22	0.73
1:B:214:ASN:C	1:B:214:ASN:HD22	1.93	0.73
1:D:544:THR:HG22	1:D:548:ARG:HA	1.69	0.73
3:F:73:GLU:HG2	3:L:68:ILE:HG21	1.71	0.73
3:I:578:TYR:CD2	3:I:935:ILE:HD11	2.23	0.73
1:A:528:THR:HG21	1:A:564:ARG:NH2	2.02	0.73
1:B:544:THR:HG22	1:B:548:ARG:HA	1.69	0.73
3:I:739:PRO:CG	3:M:341:THR:HG21	2.18	0.73
1:B:193:LEU:HD11	1:B:498:ARG:HH12	1.54	0.73
1:C:512:THR:O	1:C:513:ILE:HB	1.88	0.73
3:I:805:VAL:CG1	3:I:855:VAL:HG21	2.18	0.73
1:B:277:ASP:HB3	1:B:419:ILE:HD11	1.70	0.73
1:C:544:THR:HG22	1:C:548:ARG:HA	1.69	0.73
3:P:805:VAL:CG1	3:P:855:VAL:HG21	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:528:THR:HG21	1:C:564:ARG:NH2	2.02	0.73
3:F:805:VAL:CG1	3:F:855:VAL:HG21	2.18	0.73
3:M:574:LEU:HG	3:M:929:ARG:HE	1.53	0.73
3:Q:805:VAL:CG1	3:Q:855:VAL:HG21	2.18	0.73
3:L:805:VAL:CG1	3:L:855:VAL:HG21	2.18	0.73
3:O:805:VAL:CG1	3:O:855:VAL:HG21	2.18	0.73
1:C:193:LEU:HD11	1:C:498:ARG:HH12	1.54	0.72
1:A:490:THR:CG2	1:B:481:VAL:CG1	2.66	0.72
1:E:193:LEU:HD11	1:E:498:ARG:HH12	1.54	0.72
3:G:574:LEU:HG	3:G:929:ARG:HE	1.53	0.72
3:K:574:LEU:HG	3:K:929:ARG:HE	1.53	0.72
3:N:574:LEU:HG	3:N:929:ARG:HE	1.53	0.72
1:A:154:THR:HG22	1:A:155:LYS:HG3	1.72	0.72
1:A:512:THR:O	1:A:513:ILE:HB	1.88	0.72
1:D:512:THR:O	1:D:513:ILE:HB	1.88	0.72
1:C:154:THR:HG22	1:C:155:LYS:HG3	1.72	0.72
2:S:10:THR:O	2:S:10:THR:HG22	1.89	0.72
3:F:204:GLN:HG2	3:G:822:HIS:HB3	1.72	0.72
1:A:449:VAL:HG22	1:E:67:THR:HG21	1.70	0.72
1:C:111:ILE:HD13	1:D:449:VAL:HG11	1.71	0.72
3:O:574:LEU:HG	3:O:929:ARG:HE	1.52	0.72
1:B:486:ILE:HG21	1:C:482:TYR:CE1	2.24	0.72
3:K:805:VAL:CG1	3:K:855:VAL:HG21	2.18	0.72
3:P:204:GLN:HG2	3:Q:822:HIS:HB3	1.72	0.72
1:D:154:THR:HG22	1:D:155:LYS:HG3	1.71	0.72
1:B:512:THR:O	1:B:513:ILE:HB	1.88	0.72
1:E:154:THR:HG22	1:E:155:LYS:HG3	1.72	0.72
2:V:10:THR:O	2:V:10:THR:HG22	1.89	0.72
3:I:204:GLN:HG2	3:J:822:HIS:HB3	1.72	0.72
1:B:215:PHE:O	1:B:216:ARG:HB2	1.89	0.72
1:A:215:PHE:O	1:A:216:ARG:HB2	1.89	0.71
1:D:215:PHE:O	1:D:216:ARG:HB2	1.89	0.71
1:D:277:ASP:HB3	1:D:419:ILE:HD11	1.70	0.71
3:I:822:HIS:HB3	3:K:204:GLN:HG2	1.72	0.71
3:O:204:GLN:HG2	3:P:822:HIS:HB3	1.72	0.71
3:Q:574:LEU:HG	3:Q:929:ARG:HE	1.53	0.71
2:T:10:THR:HG22	2:T:10:THR:O	1.89	0.71
1:C:215:PHE:O	1:C:216:ARG:HB2	1.89	0.71
1:C:130:ASN:HA	1:C:519:ASN:CG	2.16	0.71
1:D:274:THR:HG22	1:D:276:ASP:N	2.06	0.71
1:E:130:ASN:HA	1:E:519:ASN:CG	2.16	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:822:HIS:HB3	3:N:204:GLN:HG2	1.72	0.71
1:A:130:ASN:HA	1:A:519:ASN:CG	2.16	0.71
1:A:275:TYR:CZ	1:A:404:ARG:HD3	2.26	0.71
1:B:130:ASN:HA	1:B:519:ASN:CG	2.16	0.71
1:C:274:THR:HG22	1:C:276:ASP:N	2.06	0.71
2:W:10:THR:HG22	2:W:10:THR:O	1.89	0.71
1:A:193:LEU:HD11	1:A:498:ARG:HH12	1.54	0.71
1:A:424:LEU:HD23	1:A:425:LEU:N	2.06	0.71
1:B:275:TYR:CZ	1:B:404:ARG:HD3	2.26	0.71
1:C:486:ILE:HG21	1:D:482:TYR:CD1	2.25	0.71
1:E:215:PHE:O	1:E:216:ARG:HB2	1.89	0.71
1:E:274:THR:HG22	1:E:276:ASP:N	2.06	0.71
2:U:10:THR:O	2:U:10:THR:HG22	1.89	0.71
3:N:118:THR:HG21	3:N:234:GLY:HA2	1.73	0.71
1:D:275:TYR:CZ	1:D:404:ARG:HD3	2.26	0.71
3:N:133:GLU:HG2	3:N:167:VAL:CG2	2.21	0.71
1:A:504:ILE:HG22	1:A:505:LEU:N	2.06	0.71
1:D:193:LEU:HD11	1:D:498:ARG:HH12	1.54	0.71
3:H:118:THR:HG21	3:H:234:GLY:HA2	1.73	0.71
3:L:133:GLU:HG2	3:L:167:VAL:CG2	2.21	0.71
3:N:566:PHE:CE2	3:N:925:VAL:HG23	2.26	0.71
3:P:118:THR:HG21	3:P:234:GLY:HA2	1.73	0.71
1:B:154:THR:HG22	1:B:155:LYS:HG3	1.72	0.70
1:E:512:THR:O	1:E:513:ILE:HB	1.88	0.70
3:F:566:PHE:CE2	3:F:925:VAL:HG23	2.26	0.70
3:J:204:GLN:HG2	3:K:822:HIS:HB3	1.72	0.70
3:L:669:ARG:HH22	3:O:727:SER:CB	2.03	0.70
3:P:42:ASN:OD1	3:P:43:LYS:HE2	1.91	0.70
1:A:274:THR:HG22	1:A:276:ASP:N	2.06	0.70
1:A:378:VAL:O	1:A:380:LYS:N	2.25	0.70
1:A:490:THR:HG22	1:B:481:VAL:CG1	2.21	0.70
1:C:275:TYR:CZ	1:C:404:ARG:HD3	2.26	0.70
3:F:42:ASN:OD1	3:F:43:LYS:HE2	1.92	0.70
3:F:57:THR:CG2	3:F:59:ARG:HD2	2.22	0.70
3:F:822:HIS:HB3	3:H:204:GLN:HG2	1.72	0.70
3:M:57:THR:HG23	3:M:59:ARG:NH1	2.07	0.70
3:N:42:ASN:OD1	3:N:43:LYS:HE2	1.92	0.70
3:O:822:HIS:HB3	3:Q:204:GLN:HG2	1.72	0.70
3:Q:566:PHE:CE2	3:Q:925:VAL:HG23	2.26	0.70
3:G:57:THR:CG2	3:G:59:ARG:HD2	2.22	0.70
3:G:204:GLN:HG2	3:H:822:HIS:HB3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:42:ASN:OD1	3:J:43:LYS:HE2	1.91	0.70
3:L:57:THR:CG2	3:L:59:ARG:HD2	2.22	0.70
3:L:118:THR:HG21	3:L:234:GLY:HA2	1.73	0.70
3:L:204:GLN:HG2	3:M:822:HIS:HB3	1.72	0.70
3:L:566:PHE:CE2	3:L:925:VAL:HG23	2.26	0.70
3:M:133:GLU:HG2	3:M:167:VAL:CG2	2.21	0.70
3:M:566:PHE:CE2	3:M:925:VAL:HG23	2.26	0.70
3:O:42:ASN:OD1	3:O:43:LYS:HE2	1.91	0.70
3:Q:57:THR:CG2	3:Q:59:ARG:HD2	2.22	0.70
1:C:98:ASN:HD22	1:C:99:ASN:N	1.90	0.70
3:H:57:THR:CG2	3:H:59:ARG:HD2	2.22	0.70
3:J:566:PHE:CE2	3:J:925:VAL:HG23	2.26	0.70
3:M:42:ASN:OD1	3:M:43:LYS:HE2	1.91	0.70
3:N:57:THR:HG23	3:N:59:ARG:NH1	2.07	0.70
3:O:800:MET:HE1	3:O:864:LEU:HD22	1.73	0.70
1:B:274:THR:HG22	1:B:276:ASP:N	2.06	0.70
1:B:424:LEU:HD23	1:B:425:LEU:N	2.06	0.70
1:D:378:VAL:O	1:D:380:LYS:N	2.25	0.70
1:E:275:TYR:CZ	1:E:404:ARG:HD3	2.26	0.70
3:J:57:THR:CG2	3:J:59:ARG:HD2	2.22	0.70
3:J:499:THR:CG2	3:J:502:TYR:H	2.05	0.70
3:K:57:THR:CG2	3:K:59:ARG:HD2	2.22	0.70
3:K:566:PHE:CE2	3:K:925:VAL:HG23	2.26	0.70
3:K:800:MET:HE1	3:K:864:LEU:HD22	1.74	0.70
3:L:800:MET:HE1	3:L:864:LEU:HD22	1.73	0.70
1:B:98:ASN:HD22	1:B:99:ASN:N	1.90	0.70
1:B:440:SER:C	1:B:442:PRO:HD3	2.17	0.70
1:D:130:ASN:HA	1:D:519:ASN:CG	2.16	0.70
1:E:424:LEU:HD23	1:E:425:LEU:N	2.06	0.70
3:F:133:GLU:HG2	3:F:167:VAL:CG2	2.21	0.70
3:G:566:PHE:CE2	3:G:925:VAL:HG23	2.26	0.70
3:I:57:THR:HG23	3:I:59:ARG:NH1	2.07	0.70
3:I:118:THR:HG21	3:I:234:GLY:HA2	1.73	0.70
3:N:499:THR:CG2	3:N:502:TYR:H	2.05	0.70
3:P:566:PHE:CE2	3:P:925:VAL:HG23	2.26	0.70
3:P:800:MET:HE1	3:P:864:LEU:HD22	1.73	0.70
3:Q:499:THR:CG2	3:Q:502:TYR:H	2.05	0.70
1:A:378:VAL:HG23	1:A:379:ILE:H	1.57	0.70
1:A:481:VAL:O	1:E:490:THR:HG23	1.91	0.70
1:C:440:SER:C	1:C:442:PRO:HD3	2.17	0.70
3:F:841:TYR:CG	3:F:842:PRO:HD2	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:440:SER:C	1:A:442:PRO:HD3	2.17	0.70
1:D:424:LEU:HD23	1:D:425:LEU:N	2.06	0.70
1:E:440:SER:C	1:E:442:PRO:HD3	2.17	0.70
3:G:42:ASN:OD1	3:G:43:LYS:HE2	1.91	0.70
3:G:841:TYR:CG	3:G:842:PRO:HD2	2.27	0.70
3:H:68:ILE:CG1	3:I:73:GLU:OE2	2.39	0.70
3:I:42:ASN:OD1	3:I:43:LYS:HE2	1.91	0.70
3:J:841:TYR:CG	3:J:842:PRO:HD2	2.27	0.70
3:O:118:THR:HG21	3:O:234:GLY:HA2	1.73	0.70
1:D:98:ASN:HD22	1:D:99:ASN:N	1.90	0.70
3:G:57:THR:HG23	3:G:59:ARG:NH1	2.07	0.70
3:G:118:THR:HG21	3:G:234:GLY:HA2	1.73	0.70
3:G:499:THR:CG2	3:G:502:TYR:H	2.05	0.70
3:H:57:THR:HG23	3:H:59:ARG:NH1	2.07	0.70
3:I:566:PHE:CE2	3:I:925:VAL:HG23	2.26	0.70
3:P:57:THR:CG2	3:P:59:ARG:HD2	2.22	0.70
1:A:98:ASN:HD22	1:A:99:ASN:N	1.90	0.70
1:B:492:LEU:HB2	1:C:230:VAL:HG11	1.74	0.70
1:D:67:THR:HG21	1:E:449:VAL:HG22	1.73	0.70
1:E:98:ASN:HD22	1:E:99:ASN:N	1.90	0.70
3:N:841:TYR:CG	3:N:842:PRO:HD2	2.27	0.70
3:O:57:THR:CG2	3:O:59:ARG:HD2	2.22	0.70
3:Q:133:GLU:HG2	3:Q:167:VAL:CG2	2.21	0.70
3:H:133:GLU:HG2	3:H:167:VAL:CG2	2.21	0.69
3:I:499:THR:CG2	3:I:502:TYR:H	2.05	0.69
3:K:57:THR:HG23	3:K:59:ARG:NH1	2.07	0.69
3:O:133:GLU:HG2	3:O:167:VAL:CG2	2.21	0.69
3:Q:42:ASN:OD1	3:Q:43:LYS:HE2	1.92	0.69
1:E:378:VAL:O	1:E:380:LYS:N	2.25	0.69
3:I:133:GLU:HG2	3:I:167:VAL:CG2	2.21	0.69
3:L:667:PRO:HD2	3:O:726:SER:CB	2.23	0.69
3:L:841:TYR:CG	3:L:842:PRO:HD2	2.27	0.69
3:Q:118:THR:HG21	3:Q:234:GLY:HA2	1.73	0.69
3:H:42:ASN:OD1	3:H:43:LYS:HE2	1.92	0.69
3:K:42:ASN:OD1	3:K:43:LYS:HE2	1.91	0.69
3:M:204:GLN:HG2	3:N:822:HIS:HB3	1.72	0.69
3:O:566:PHE:CE2	3:O:925:VAL:HG23	2.26	0.69
1:A:481:VAL:CG1	1:E:490:THR:CG2	2.70	0.69
1:C:378:VAL:O	1:C:380:LYS:N	2.25	0.69
1:C:424:LEU:HD23	1:C:425:LEU:N	2.06	0.69
1:D:440:SER:C	1:D:442:PRO:HD3	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:534:PHE:CD2	3:H:710:THR:HB	2.27	0.69
3:J:57:THR:HG23	3:J:59:ARG:NH1	2.07	0.69
3:J:133:GLU:HG2	3:J:167:VAL:CG2	2.21	0.69
3:K:133:GLU:HG2	3:K:167:VAL:CG2	2.21	0.69
3:N:91:ARG:HG3	3:N:91:ARG:NH1	2.07	0.69
3:O:534:PHE:CD2	3:O:710:THR:HB	2.27	0.69
3:H:91:ARG:HG3	3:H:91:ARG:NH1	2.07	0.69
3:H:566:PHE:CE2	3:H:925:VAL:HG23	2.26	0.69
3:I:841:TYR:CG	3:I:842:PRO:HD2	2.27	0.69
3:P:133:GLU:HG2	3:P:167:VAL:CG2	2.21	0.69
3:Q:800:MET:HE1	3:Q:864:LEU:HD22	1.74	0.69
1:B:504:ILE:HG22	1:B:505:LEU:N	2.06	0.69
1:E:504:ILE:HG22	1:E:505:LEU:N	2.06	0.69
3:F:91:ARG:HG3	3:F:91:ARG:NH1	2.07	0.69
3:F:118:THR:HG21	3:F:234:GLY:HA2	1.73	0.69
3:K:118:THR:HG21	3:K:234:GLY:HA2	1.73	0.69
3:M:841:TYR:CG	3:M:842:PRO:HD2	2.27	0.69
3:N:57:THR:CG2	3:N:59:ARG:HD2	2.22	0.69
3:O:57:THR:HG23	3:O:59:ARG:NH1	2.07	0.69
3:P:841:TYR:CG	3:P:842:PRO:HD2	2.27	0.69
3:Q:362:ASP:HB3	3:Q:941:ARG:NH2	2.08	0.69
3:Q:534:PHE:CD2	3:Q:710:THR:HB	2.27	0.69
3:G:534:PHE:CD2	3:G:710:THR:HB	2.27	0.69
3:J:118:THR:HG21	3:J:234:GLY:HA2	1.73	0.69
3:L:42:ASN:OD1	3:L:43:LYS:HE2	1.91	0.69
3:O:362:ASP:HB3	3:O:941:ARG:NH2	2.08	0.69
1:B:378:VAL:HG23	1:B:379:ILE:H	1.57	0.69
1:B:378:VAL:O	1:B:380:LYS:N	2.25	0.69
1:D:378:VAL:HG23	1:D:379:ILE:H	1.57	0.69
1:D:504:ILE:HG22	1:D:505:LEU:N	2.06	0.69
1:E:283:ILE:O	1:E:401:THR:HG23	1.93	0.69
3:F:57:THR:HG23	3:F:59:ARG:NH1	2.07	0.69
3:G:297:THR:HG22	3:G:320:PRO:HA	1.75	0.69
3:H:229:MET:CE	3:H:309:ASN:HB3	2.06	0.69
3:H:297:THR:HG22	3:H:320:PRO:HA	1.75	0.69
3:H:841:TYR:CG	3:H:842:PRO:HD2	2.27	0.69
3:I:57:THR:CG2	3:I:59:ARG:HD2	2.22	0.69
3:I:534:PHE:CD2	3:I:710:THR:HB	2.28	0.69
3:I:800:MET:HE1	3:I:864:LEU:HD22	1.73	0.69
3:M:534:PHE:CD2	3:M:710:THR:HB	2.27	0.69
3:M:800:MET:HE1	3:M:864:LEU:HD22	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:534:PHE:CD2	3:N:710:THR:HB	2.27	0.69
3:O:841:TYR:CG	3:O:842:PRO:HD2	2.27	0.69
3:P:57:THR:HG23	3:P:59:ARG:NH1	2.07	0.69
3:P:534:PHE:CD2	3:P:710:THR:HB	2.27	0.69
3:Q:57:THR:HG23	3:Q:59:ARG:NH1	2.07	0.69
3:Q:841:TYR:CG	3:Q:842:PRO:HD2	2.27	0.69
3:F:499:THR:CG2	3:F:502:TYR:H	2.05	0.69
3:F:534:PHE:CD2	3:F:710:THR:HB	2.28	0.69
3:G:133:GLU:HG2	3:G:167:VAL:CG2	2.22	0.69
3:H:499:THR:CG2	3:H:502:TYR:H	2.05	0.69
3:K:534:PHE:CD2	3:K:710:THR:HB	2.27	0.69
3:K:841:TYR:CG	3:K:842:PRO:HD2	2.27	0.69
3:L:229:MET:CE	3:L:309:ASN:HB3	2.06	0.69
3:M:57:THR:CG2	3:M:59:ARG:HD2	2.22	0.69
3:M:499:THR:CG2	3:M:502:TYR:H	2.05	0.69
3:N:297:THR:HG22	3:N:320:PRO:HA	1.75	0.69
3:O:499:THR:CG2	3:O:502:TYR:H	2.05	0.69
1:A:211:ASP:OD1	1:A:213:ARG:HG2	1.93	0.69
1:C:486:ILE:CG2	1:D:482:TYR:CE1	2.75	0.69
1:C:490:THR:CG2	1:D:481:VAL:CG1	2.71	0.69
1:C:504:ILE:HG22	1:C:505:LEU:N	2.06	0.69
3:F:362:ASP:HB3	3:F:941:ARG:NH2	2.08	0.69
3:G:327:ALA:HB2	3:G:546:SER:HA	1.76	0.69
3:G:800:MET:HE1	3:G:864:LEU:HD22	1.74	0.69
3:I:302:MET:HE3	3:I:303:PRO:N	2.09	0.69
3:J:534:PHE:CD2	3:J:710:THR:HB	2.27	0.69
3:L:57:THR:HG23	3:L:59:ARG:NH1	2.07	0.69
3:L:534:PHE:CD2	3:L:710:THR:HB	2.27	0.69
3:M:118:THR:HG21	3:M:234:GLY:HA2	1.73	0.69
3:M:892:LEU:HD12	3:M:892:LEU:O	1.93	0.69
3:O:327:ALA:HB2	3:O:546:SER:HA	1.75	0.69
1:B:211:ASP:OD1	1:B:213:ARG:HG2	1.93	0.68
3:F:297:THR:HG22	3:F:320:PRO:HA	1.75	0.68
3:M:302:MET:HE3	3:M:303:PRO:N	2.08	0.68
3:M:327:ALA:HB2	3:M:546:SER:HA	1.75	0.68
3:Q:91:ARG:HG3	3:Q:91:ARG:NH1	2.07	0.68
1:C:283:ILE:O	1:C:401:THR:HG23	1.93	0.68
1:E:428:PRO:O	1:E:429:ASP:HB3	1.93	0.68
3:K:892:LEU:HD12	3:K:892:LEU:O	1.93	0.68
1:A:83:ASN:HA	1:A:86:ASN:ND2	2.09	0.68
1:A:482:TYR:CD1	1:E:486:ILE:CG2	2.77	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:457:ILE:HD12	1:D:458:SER:H	1.58	0.68
3:K:302:MET:HE3	3:K:303:PRO:N	2.08	0.68
3:L:499:THR:CG2	3:L:502:TYR:H	2.05	0.68
3:M:91:ARG:HG3	3:M:91:ARG:NH1	2.08	0.68
1:B:457:ILE:HD12	1:B:458:SER:H	1.58	0.68
1:D:211:ASP:OD1	1:D:213:ARG:HG2	1.94	0.68
1:D:487:ARG:HH21	1:E:234:GLU:CD	2.02	0.68
3:F:302:MET:HE3	3:F:303:PRO:N	2.08	0.68
3:H:302:MET:HE3	3:H:303:PRO:N	2.08	0.68
3:H:362:ASP:HB3	3:H:941:ARG:NH2	2.08	0.68
3:H:892:LEU:HD12	3:H:892:LEU:O	1.93	0.68
3:J:91:ARG:HG3	3:J:91:ARG:NH1	2.08	0.68
3:N:302:MET:HE3	3:N:303:PRO:N	2.08	0.68
1:A:457:ILE:HD12	1:A:458:SER:H	1.59	0.68
1:C:499:PHE:HD1	1:C:505:LEU:HB3	1.59	0.68
3:G:892:LEU:O	3:G:892:LEU:HD12	1.93	0.68
3:H:800:MET:HE1	3:H:864:LEU:HD22	1.74	0.68
3:I:892:LEU:HD12	3:I:892:LEU:O	1.93	0.68
3:J:800:MET:HE1	3:J:864:LEU:HD22	1.73	0.68
3:M:297:THR:HG22	3:M:320:PRO:HA	1.75	0.68
3:G:302:MET:HE3	3:G:303:PRO:N	2.08	0.68
3:I:362:ASP:HB3	3:I:941:ARG:NH2	2.08	0.68
3:L:302:MET:HE3	3:L:303:PRO:N	2.09	0.68
3:O:297:THR:HG22	3:O:320:PRO:HA	1.75	0.68
3:O:302:MET:HE3	3:O:303:PRO:N	2.09	0.68
3:Q:327:ALA:HB2	3:Q:546:SER:HA	1.75	0.68
1:A:283:ILE:O	1:A:401:THR:HG23	1.93	0.68
3:F:892:LEU:HD12	3:F:892:LEU:O	1.93	0.68
3:G:229:MET:CE	3:G:309:ASN:HB3	2.06	0.68
3:J:327:ALA:HB2	3:J:546:SER:HA	1.76	0.68
3:Q:302:MET:HE3	3:Q:303:PRO:N	2.08	0.68
1:A:487:ARG:NE	1:B:234:GLU:OE2	2.25	0.68
3:F:800:MET:HE1	3:F:864:LEU:HD22	1.73	0.68
3:N:892:LEU:HD12	3:N:892:LEU:O	1.93	0.68
1:B:283:ILE:O	1:B:401:THR:HG23	1.93	0.68
1:D:283:ILE:O	1:D:401:THR:HG23	1.93	0.68
1:E:211:ASP:OD1	1:E:213:ARG:HG2	1.93	0.68
1:E:457:ILE:HD12	1:E:458:SER:H	1.58	0.68
3:F:229:MET:CE	3:F:309:ASN:HB3	2.06	0.68
3:I:297:THR:HG22	3:I:320:PRO:HA	1.75	0.68
3:I:942:THR:HA	3:I:943:PRO:C	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:297:THR:HG22	3:K:320:PRO:HA	1.75	0.68
3:M:229:MET:CE	3:M:309:ASN:HB3	2.06	0.68
3:J:59:ARG:NH1	3:J:623:HIS:H	1.92	0.68
3:J:302:MET:HE3	3:J:303:PRO:N	2.08	0.68
3:J:362:ASP:HB3	3:J:941:ARG:NH2	2.08	0.68
3:J:892:LEU:HD12	3:J:892:LEU:O	1.93	0.68
3:J:942:THR:HA	3:J:943:PRO:C	2.19	0.68
3:L:942:THR:HA	3:L:943:PRO:C	2.19	0.68
3:O:892:LEU:O	3:O:892:LEU:HD12	1.93	0.68
3:Q:59:ARG:NH1	3:Q:623:HIS:H	1.92	0.68
3:Q:892:LEU:HD12	3:Q:892:LEU:O	1.93	0.68
1:A:217:LEU:CB	1:A:232:THR:HG21	2.25	0.67
1:C:211:ASP:OD1	1:C:213:ARG:HG2	1.93	0.67
1:D:490:THR:HG23	1:E:481:VAL:O	1.93	0.67
3:H:327:ALA:HB2	3:H:546:SER:HA	1.75	0.67
3:I:327:ALA:HB2	3:I:546:SER:HA	1.76	0.67
1:E:378:VAL:HG23	1:E:379:ILE:H	1.57	0.67
3:L:297:THR:HG22	3:L:320:PRO:HA	1.75	0.67
3:P:362:ASP:HB3	3:P:941:ARG:NH2	2.08	0.67
1:D:499:PHE:HD1	1:D:505:LEU:HB3	1.59	0.67
3:F:942:THR:HA	3:F:943:PRO:C	2.19	0.67
3:L:91:ARG:HG3	3:L:91:ARG:NH1	2.08	0.67
3:N:327:ALA:HB2	3:N:546:SER:HA	1.75	0.67
3:N:369:TYR:CD2	3:N:564:LYS:HE2	2.30	0.67
3:N:800:MET:HE1	3:N:864:LEU:HD22	1.74	0.67
3:N:942:THR:HA	3:N:943:PRO:C	2.19	0.67
3:Q:369:TYR:CD2	3:Q:564:LYS:HE2	2.30	0.67
1:A:499:PHE:HD1	1:A:505:LEU:HB3	1.59	0.67
1:C:378:VAL:HG23	1:C:379:ILE:H	1.57	0.67
3:G:59:ARG:NH1	3:G:623:HIS:H	1.93	0.67
3:G:819:LEU:HD23	3:G:831:LEU:HD11	1.77	0.67
3:I:369:TYR:CD2	3:I:564:LYS:HE2	2.30	0.67
3:K:327:ALA:HB2	3:K:546:SER:HA	1.76	0.67
3:L:892:LEU:HD12	3:L:892:LEU:O	1.93	0.67
3:O:369:TYR:CD2	3:O:564:LYS:HE2	2.30	0.67
1:E:217:LEU:CB	1:E:232:THR:HG21	2.25	0.67
3:J:297:THR:HG22	3:J:320:PRO:HA	1.75	0.67
3:J:819:LEU:HD23	3:J:831:LEU:HD11	1.77	0.67
3:K:362:ASP:HB3	3:K:941:ARG:NH2	2.08	0.67
3:M:59:ARG:NH1	3:M:623:HIS:H	1.92	0.67
3:P:369:TYR:CD2	3:P:564:LYS:HE2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:179:MET:HE2	1:B:487:ARG:HH22	1.60	0.67
3:G:942:THR:HA	3:G:943:PRO:C	2.19	0.67
3:J:369:TYR:CD2	3:J:564:LYS:HE2	2.29	0.67
3:K:229:MET:CE	3:K:309:ASN:HB3	2.06	0.67
3:K:499:THR:CG2	3:K:502:TYR:H	2.05	0.67
3:L:327:ALA:HB2	3:L:546:SER:HA	1.76	0.67
3:N:362:ASP:HB3	3:N:941:ARG:NH2	2.08	0.67
3:P:302:MET:HE3	3:P:303:PRO:N	2.08	0.67
3:P:942:THR:HA	3:P:943:PRO:C	2.19	0.67
1:C:558:LEU:HD21	1:D:436:GLN:HG2	1.75	0.67
3:G:362:ASP:HB3	3:G:941:ARG:NH2	2.08	0.67
3:K:369:TYR:CD2	3:K:564:LYS:HE2	2.30	0.67
3:P:91:ARG:HG3	3:P:91:ARG:NH1	2.08	0.67
3:P:297:THR:HG22	3:P:320:PRO:HA	1.75	0.67
1:B:217:LEU:CB	1:B:232:THR:HG21	2.24	0.67
1:B:499:PHE:HD1	1:B:505:LEU:HB3	1.59	0.67
1:D:83:ASN:HA	1:D:86:ASN:ND2	2.09	0.67
3:I:59:ARG:NH1	3:I:623:HIS:H	1.93	0.67
3:I:229:MET:CE	3:I:309:ASN:HB3	2.06	0.67
3:K:819:LEU:HD23	3:K:831:LEU:HD11	1.77	0.67
3:O:819:LEU:HD23	3:O:831:LEU:HD11	1.77	0.67
1:A:183:LEU:HD21	1:B:236:PHE:HE2	1.59	0.67
3:H:369:TYR:CD2	3:H:564:LYS:HE2	2.30	0.67
3:P:892:LEU:HD12	3:P:892:LEU:O	1.93	0.67
3:Q:942:THR:HA	3:Q:943:PRO:C	2.19	0.67
1:A:179:MET:HE2	1:A:487:ARG:HH22	1.60	0.67
1:A:428:PRO:O	1:A:429:ASP:HB3	1.93	0.67
1:E:274:THR:HG22	1:E:275:TYR:N	2.10	0.67
3:G:369:TYR:CD2	3:G:564:LYS:HE2	2.30	0.67
3:K:942:THR:HA	3:K:943:PRO:C	2.19	0.67
3:O:942:THR:HA	3:O:943:PRO:C	2.19	0.67
3:P:327:ALA:HB2	3:P:546:SER:HA	1.76	0.67
1:D:477:ASN:C	1:D:479:GLN:H	2.03	0.66
1:E:499:PHE:HD1	1:E:505:LEU:HB3	1.59	0.66
3:P:499:THR:CG2	3:P:502:TYR:H	2.05	0.66
3:Q:297:THR:HG22	3:Q:320:PRO:HA	1.75	0.66
3:F:327:ALA:HB2	3:F:546:SER:HA	1.76	0.66
3:F:369:TYR:CD2	3:F:564:LYS:HE2	2.30	0.66
3:K:664:ILE:HG12	3:K:902:MET:HB2	1.78	0.66
3:M:755:VAL:HG22	3:M:756:ALA:H	1.60	0.66
3:O:664:ILE:HG12	3:O:902:MET:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:215:PHE:HB3	1:A:283:ILE:HG23	1.77	0.66
1:C:274:THR:HG22	1:C:275:TYR:N	2.10	0.66
1:C:457:ILE:HD12	1:C:458:SER:H	1.58	0.66
1:D:179:MET:HE2	1:D:487:ARG:HH22	1.60	0.66
1:E:215:PHE:HB3	1:E:283:ILE:HG23	1.77	0.66
3:F:755:VAL:HG22	3:F:756:ALA:H	1.61	0.66
1:A:85:GLN:HE22	3:P:692:SER:CB	2.01	0.66
1:C:214:ASN:HD21	1:C:216:ARG:HB3	1.60	0.66
1:C:215:PHE:HB3	1:C:283:ILE:HG23	1.77	0.66
1:D:428:PRO:O	1:D:429:ASP:HB3	1.94	0.66
1:E:145:ALA:HB3	1:E:168:PHE:CE1	2.31	0.66
3:M:369:TYR:CD2	3:M:564:LYS:HE2	2.30	0.66
3:M:942:THR:HA	3:M:943:PRO:C	2.19	0.66
3:O:755:VAL:HG22	3:O:756:ALA:H	1.61	0.66
3:P:59:ARG:NH1	3:P:623:HIS:H	1.93	0.66
1:A:145:ALA:HB3	1:A:168:PHE:CE1	2.31	0.66
1:B:83:ASN:HA	1:B:86:ASN:ND2	2.09	0.66
1:C:83:ASN:HA	1:C:86:ASN:ND2	2.09	0.66
1:C:477:ASN:C	1:C:479:GLN:H	2.03	0.66
3:J:664:ILE:HG12	3:J:902:MET:HB2	1.78	0.66
3:K:59:ARG:NH1	3:K:623:HIS:H	1.92	0.66
3:L:369:TYR:CD2	3:L:564:LYS:HE2	2.30	0.66
3:M:664:ILE:HG12	3:M:902:MET:HB2	1.78	0.66
3:P:209:GLN:O	3:Q:835:MET:HE1	1.96	0.66
3:P:819:LEU:HD23	3:P:831:LEU:HD11	1.77	0.66
1:B:428:PRO:O	1:B:429:ASP:HB3	1.93	0.66
1:C:428:PRO:O	1:C:429:ASP:HB3	1.93	0.66
1:E:487:ARG:NH1	1:E:507:ARG:NH2	2.44	0.66
3:L:362:ASP:HB3	3:L:941:ARG:NH2	2.08	0.66
3:L:755:VAL:HG22	3:L:756:ALA:H	1.61	0.66
3:Q:755:VAL:HG22	3:Q:756:ALA:H	1.60	0.66
1:B:215:PHE:HB3	1:B:283:ILE:HG23	1.77	0.66
3:F:819:LEU:HD23	3:F:831:LEU:HD11	1.77	0.66
3:K:755:VAL:HG22	3:K:756:ALA:H	1.60	0.66
3:P:229:MET:CE	3:P:309:ASN:HB3	2.06	0.66
3:H:68:ILE:CG1	3:I:73:GLU:OE1	2.36	0.66
3:L:664:ILE:CG1	3:L:902:MET:HB2	2.26	0.66
3:N:59:ARG:NH1	3:N:623:HIS:H	1.92	0.66
3:Q:819:LEU:HD23	3:Q:831:LEU:HD11	1.77	0.66
1:E:214:ASN:HD21	1:E:216:ARG:HB3	1.60	0.66
3:K:664:ILE:CG1	3:K:902:MET:HB2	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:835:MET:HE1	3:Q:209:GLN:O	1.96	0.66
1:B:477:ASN:C	1:B:479:GLN:H	2.03	0.66
3:F:664:ILE:HG12	3:F:902:MET:HB2	1.78	0.66
3:G:91:ARG:HG3	3:G:91:ARG:NH1	2.08	0.66
3:H:942:THR:HA	3:H:943:PRO:C	2.19	0.66
3:K:747:SER:O	3:K:749:ASP:N	2.29	0.66
3:M:362:ASP:HB3	3:M:941:ARG:NH2	2.08	0.66
3:N:664:ILE:CG1	3:N:902:MET:HB2	2.26	0.66
3:N:755:VAL:HG22	3:N:756:ALA:H	1.60	0.66
3:O:517:ILE:HD13	3:O:518:ASN:N	2.11	0.66
1:A:424:LEU:HD21	1:E:553:TYR:CE2	2.30	0.65
1:C:145:ALA:HB3	1:C:168:PHE:CE1	2.31	0.65
1:D:215:PHE:HB3	1:D:283:ILE:HG23	1.77	0.65
1:D:553:TYR:CE2	1:E:424:LEU:HD21	2.31	0.65
3:F:835:MET:HE1	3:H:209:GLN:O	1.96	0.65
3:I:91:ARG:HG3	3:I:91:ARG:NH1	2.07	0.65
3:I:664:ILE:CG1	3:I:902:MET:HB2	2.26	0.65
3:N:517:ILE:HD13	3:N:518:ASN:N	2.12	0.65
3:O:59:ARG:NH1	3:O:623:HIS:H	1.93	0.65
3:P:755:VAL:HG22	3:P:756:ALA:H	1.60	0.65
3:Q:747:SER:O	3:Q:749:ASP:N	2.29	0.65
1:A:214:ASN:HD21	1:A:216:ARG:HB3	1.60	0.65
1:A:274:THR:HG22	1:A:275:TYR:N	2.10	0.65
1:C:487:ARG:NH1	1:C:507:ARG:NH2	2.44	0.65
1:D:477:ASN:C	1:D:479:GLN:N	2.53	0.65
3:F:664:ILE:CG1	3:F:902:MET:HB2	2.26	0.65
3:G:664:ILE:CG1	3:G:902:MET:HB2	2.26	0.65
3:G:664:ILE:HG12	3:G:902:MET:HB2	1.78	0.65
3:H:755:VAL:HG22	3:H:756:ALA:H	1.60	0.65
3:J:209:GLN:O	3:K:835:MET:HE1	1.96	0.65
3:J:664:ILE:CG1	3:J:902:MET:HB2	2.26	0.65
3:Q:664:ILE:CG1	3:Q:902:MET:HB2	2.26	0.65
1:C:440:SER:HB3	1:C:461:PRO:O	1.97	0.65
1:D:274:THR:HG22	1:D:275:TYR:N	2.10	0.65
3:F:209:GLN:O	3:G:835:MET:HE1	1.96	0.65
3:G:755:VAL:HG22	3:G:756:ALA:H	1.60	0.65
3:I:209:GLN:O	3:J:835:MET:HE1	1.96	0.65
3:I:664:ILE:HG12	3:I:902:MET:HB2	1.78	0.65
3:I:819:LEU:HD23	3:I:831:LEU:HD11	1.77	0.65
3:L:835:MET:HE1	3:N:209:GLN:O	1.96	0.65
1:B:214:ASN:HD21	1:B:216:ARG:HB3	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:487:ARG:NH1	1:B:507:ARG:NH2	2.44	0.65
1:C:133:ASN:HB2	1:C:175:TYR:CD2	2.32	0.65
3:G:209:GLN:O	3:H:835:MET:HE1	1.96	0.65
3:I:755:VAL:HG22	3:I:756:ALA:H	1.61	0.65
3:L:747:SER:O	3:L:749:ASP:N	2.29	0.65
3:Q:664:ILE:HG12	3:Q:902:MET:HB2	1.78	0.65
1:A:57:TYR:O	1:A:58:SER:C	2.40	0.65
1:A:477:ASN:C	1:A:479:GLN:H	2.03	0.65
1:D:214:ASN:HD21	1:D:216:ARG:HB3	1.60	0.65
1:E:83:ASN:HA	1:E:86:ASN:ND2	2.09	0.65
3:H:59:ARG:NH1	3:H:623:HIS:H	1.93	0.65
3:H:819:LEU:HD23	3:H:831:LEU:HD11	1.77	0.65
3:J:517:ILE:HD13	3:J:518:ASN:N	2.12	0.65
3:K:929:ARG:HB2	3:K:929:ARG:CZ	2.27	0.65
3:M:664:ILE:CG1	3:M:902:MET:HB2	2.26	0.65
3:M:819:LEU:HD23	3:M:831:LEU:HD11	1.77	0.65
3:N:747:SER:O	3:N:749:ASP:N	2.29	0.65
3:O:91:ARG:HG3	3:O:91:ARG:NH1	2.07	0.65
3:O:664:ILE:CG1	3:O:902:MET:HB2	2.26	0.65
3:Q:517:ILE:HD13	3:Q:518:ASN:N	2.12	0.65
1:D:133:ASN:HB2	1:D:175:TYR:CD2	2.32	0.65
1:E:57:TYR:O	1:E:58:SER:C	2.40	0.65
1:E:179:MET:HE2	1:E:487:ARG:HH22	1.60	0.65
2:S:18:ASP:OD1	2:S:18:ASP:O	2.15	0.65
3:G:747:SER:O	3:G:749:ASP:N	2.29	0.65
3:H:929:ARG:HB2	3:H:929:ARG:CZ	2.27	0.65
3:J:929:ARG:HB2	3:J:929:ARG:CZ	2.27	0.65
3:L:929:ARG:HB2	3:L:929:ARG:CZ	2.27	0.65
3:M:89:ASP:OD1	3:M:932:ARG:NH1	2.30	0.65
3:O:929:ARG:HB2	3:O:929:ARG:CZ	2.27	0.65
3:P:517:ILE:HD13	3:P:518:ASN:N	2.11	0.65
3:Q:929:ARG:HB2	3:Q:929:ARG:CZ	2.27	0.65
1:A:133:ASN:HB2	1:A:175:TYR:CD2	2.32	0.65
1:B:145:ALA:HB3	1:B:168:PHE:CE1	2.31	0.65
1:C:57:TYR:O	1:C:58:SER:C	2.40	0.65
1:C:179:MET:HE2	1:C:487:ARG:HH22	1.60	0.65
1:C:560:ILE:HD11	1:D:465:ALA:HB3	1.79	0.65
3:G:89:ASP:OD1	3:G:932:ARG:NH1	2.30	0.65
3:H:747:SER:O	3:H:749:ASP:N	2.29	0.65
3:M:517:ILE:HD13	3:M:518:ASN:N	2.11	0.65
3:P:747:SER:O	3:P:749:ASP:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:274:THR:HG22	1:B:275:TYR:N	2.10	0.65
1:D:440:SER:HB3	1:D:461:PRO:O	1.97	0.65
1:D:487:ARG:NH1	1:D:507:ARG:NH2	2.44	0.65
2:W:18:ASP:OD1	2:W:18:ASP:O	2.15	0.65
3:F:517:ILE:HD13	3:F:518:ASN:N	2.11	0.65
3:G:929:ARG:HB2	3:G:929:ARG:CZ	2.27	0.65
3:H:517:ILE:HD13	3:H:518:ASN:N	2.12	0.65
3:K:89:ASP:OD1	3:K:932:ARG:NH1	2.30	0.65
3:L:819:LEU:HD23	3:L:831:LEU:HD11	1.77	0.65
3:P:664:ILE:CG1	3:P:902:MET:HB2	2.26	0.65
1:D:207:GLY:O	1:D:208:VAL:HB	1.97	0.65
3:F:747:SER:O	3:F:749:ASP:N	2.30	0.65
3:I:747:SER:O	3:I:749:ASP:N	2.30	0.65
1:B:68:ARG:NE	1:C:529:LEU:HD21	2.12	0.65
1:C:224:GLY:O	1:C:225:LEU:HD23	1.97	0.65
1:E:477:ASN:C	1:E:479:GLN:H	2.03	0.65
1:E:513:ILE:HG22	1:E:513:ILE:O	1.97	0.65
3:H:664:ILE:CG1	3:H:902:MET:HB2	2.26	0.65
3:J:755:VAL:HG22	3:J:756:ALA:H	1.60	0.65
3:M:209:GLN:O	3:N:835:MET:HE1	1.96	0.65
1:B:440:SER:HB3	1:B:461:PRO:O	1.97	0.64
1:E:440:SER:HB3	1:E:461:PRO:O	1.97	0.64
2:T:18:ASP:OD1	2:T:18:ASP:O	2.15	0.64
3:F:250:VAL:HG23	3:F:260:GLN:HG3	1.79	0.64
3:G:517:ILE:HD13	3:G:518:ASN:N	2.11	0.64
3:I:89:ASP:OD1	3:I:932:ARG:NH1	2.30	0.64
3:I:835:MET:HE1	3:K:209:GLN:O	1.96	0.64
3:N:664:ILE:HG12	3:N:902:MET:HB2	1.78	0.64
3:P:664:ILE:HG12	3:P:902:MET:HB2	1.78	0.64
1:B:133:ASN:HB2	1:B:175:TYR:CD2	2.32	0.64
1:D:217:LEU:CB	1:D:232:THR:HG21	2.24	0.64
1:E:207:GLY:O	1:E:208:VAL:HB	1.97	0.64
3:J:89:ASP:OD1	3:J:932:ARG:NH1	2.30	0.64
3:O:209:GLN:O	3:P:835:MET:HE1	1.96	0.64
1:A:487:ARG:NH1	1:A:507:ARG:NH2	2.44	0.64
1:B:224:GLY:O	1:B:225:LEU:HD23	1.97	0.64
3:F:59:ARG:NH1	3:F:623:HIS:H	1.92	0.64
3:H:250:VAL:HG23	3:H:260:GLN:HG3	1.79	0.64
3:K:517:ILE:HD13	3:K:518:ASN:N	2.12	0.64
3:L:664:ILE:HG12	3:L:902:MET:HB2	1.78	0.64
3:N:819:LEU:HD23	3:N:831:LEU:HD11	1.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:929:ARG:HB2	3:N:929:ARG:CZ	2.27	0.64
3:O:747:SER:O	3:O:749:ASP:N	2.29	0.64
3:P:929:ARG:HB2	3:P:929:ARG:CZ	2.27	0.64
1:A:207:GLY:O	1:A:208:VAL:HB	1.97	0.64
1:C:490:THR:HG23	1:D:481:VAL:O	1.97	0.64
1:D:145:ALA:HB3	1:D:168:PHE:CE1	2.31	0.64
1:D:224:GLY:O	1:D:225:LEU:HD23	1.97	0.64
1:D:498:ARG:HD3	2:V:14:VAL:HG12	1.80	0.64
3:K:89:ASP:CG	3:K:932:ARG:HH12	2.06	0.64
3:K:91:ARG:HG3	3:K:91:ARG:NH1	2.07	0.64
3:L:59:ARG:NH1	3:L:623:HIS:H	1.93	0.64
3:M:747:SER:O	3:M:749:ASP:N	2.29	0.64
3:P:89:ASP:OD1	3:P:932:ARG:NH1	2.30	0.64
1:B:207:GLY:O	1:B:208:VAL:HB	1.97	0.64
1:E:133:ASN:HB2	1:E:175:TYR:CD2	2.32	0.64
3:I:43:LYS:NZ	3:J:94:ASP:OD2	2.31	0.64
3:K:302:MET:HE3	3:K:302:MET:C	2.23	0.64
3:L:517:ILE:HD13	3:L:518:ASN:N	2.11	0.64
3:M:43:LYS:NZ	3:N:94:ASP:OD2	2.31	0.64
3:N:89:ASP:OD1	3:N:932:ARG:NH1	2.30	0.64
3:N:302:MET:HE3	3:N:302:MET:C	2.23	0.64
3:P:302:MET:HE3	3:P:302:MET:C	2.23	0.64
3:Q:250:VAL:HG23	3:Q:260:GLN:HG3	1.79	0.64
1:C:68:ARG:HH11	1:C:68:ARG:CG	2.06	0.64
1:D:490:THR:CG2	1:E:481:VAL:CG1	2.73	0.64
2:U:18:ASP:O	2:U:18:ASP:OD1	2.15	0.64
3:L:89:ASP:OD1	3:L:932:ARG:NH1	2.30	0.64
3:L:89:ASP:CG	3:L:932:ARG:HH12	2.06	0.64
3:Q:89:ASP:OD1	3:Q:932:ARG:NH1	2.30	0.64
1:B:57:TYR:O	1:B:58:SER:C	2.40	0.64
1:B:436:GLN:NE2	1:B:438:TYR:HE2	1.96	0.64
1:C:217:LEU:CB	1:C:232:THR:HG21	2.24	0.64
1:C:498:ARG:HD3	2:U:14:VAL:HG12	1.80	0.64
1:D:513:ILE:O	1:D:513:ILE:HG22	1.97	0.64
3:G:250:VAL:HG23	3:G:260:GLN:HG3	1.80	0.64
3:I:517:ILE:HD13	3:I:518:ASN:N	2.11	0.64
3:I:929:ARG:HB2	3:I:929:ARG:CZ	2.27	0.64
3:J:302:MET:HE3	3:J:302:MET:C	2.23	0.64
1:A:492:LEU:CB	1:B:230:VAL:HG11	2.27	0.64
1:D:210:PHE:HD2	1:D:240:ILE:HG22	1.63	0.64
1:E:224:GLY:O	1:E:225:LEU:HD23	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:436:GLN:NE2	1:E:438:TYR:HE2	1.96	0.64
2:V:18:ASP:OD1	2:V:18:ASP:O	2.15	0.64
3:F:89:ASP:OD1	3:F:932:ARG:NH1	2.30	0.64
3:G:89:ASP:CG	3:G:932:ARG:HH12	2.06	0.64
3:H:89:ASP:OD1	3:H:932:ARG:NH1	2.30	0.64
3:H:664:ILE:HG12	3:H:902:MET:HB2	1.78	0.64
3:L:250:VAL:HG23	3:L:260:GLN:HG3	1.79	0.64
3:N:89:ASP:CG	3:N:932:ARG:HH12	2.06	0.64
3:N:229:MET:CE	3:N:309:ASN:HB3	2.06	0.64
3:O:43:LYS:NZ	3:P:94:ASP:OD2	2.31	0.64
1:A:544:THR:HG21	1:A:548:ARG:HA	1.80	0.64
1:B:445:MET:HE3	1:B:529:LEU:HB2	1.80	0.64
1:C:544:THR:HG21	1:C:548:ARG:HA	1.80	0.64
1:D:98:ASN:HD22	1:D:98:ASN:C	2.06	0.64
3:N:250:VAL:HG23	3:N:260:GLN:HG3	1.79	0.64
3:O:89:ASP:CG	3:O:932:ARG:HH12	2.06	0.64
3:O:89:ASP:OD1	3:O:932:ARG:NH1	2.30	0.64
3:O:302:MET:HE3	3:O:302:MET:C	2.23	0.64
1:A:436:GLN:NE2	1:A:438:TYR:HE2	1.96	0.64
1:A:445:MET:HE3	1:A:529:LEU:HB2	1.80	0.64
1:B:64:PHE:HD1	1:C:118:HIS:NE2	1.95	0.64
1:D:57:TYR:O	1:D:58:SER:C	2.40	0.64
1:D:558:LEU:HD21	1:E:436:GLN:HG2	1.80	0.64
1:E:134:VAL:HA	1:E:140:THR:OG1	1.98	0.64
1:E:445:MET:HE3	1:E:529:LEU:HB2	1.80	0.64
3:J:250:VAL:HG23	3:J:260:GLN:HG3	1.80	0.64
1:A:440:SER:HB3	1:A:461:PRO:O	1.97	0.63
1:A:481:VAL:HG12	1:E:490:THR:HG22	1.80	0.63
1:C:436:GLN:NE2	1:C:438:TYR:HE2	1.96	0.63
1:D:134:VAL:HA	1:D:140:THR:OG1	1.98	0.63
1:D:436:GLN:NE2	1:D:438:TYR:HE2	1.96	0.63
1:E:210:PHE:HD2	1:E:240:ILE:HG22	1.63	0.63
3:F:302:MET:HE3	3:F:302:MET:C	2.23	0.63
3:J:229:MET:CE	3:J:309:ASN:HB3	2.06	0.63
3:K:112:PHE:CZ	3:K:114:PRO:HG3	2.33	0.63
1:E:138:MET:O	1:E:139:PHE:HB2	1.98	0.63
1:E:544:THR:HG21	1:E:548:ARG:HA	1.80	0.63
3:J:319:MET:CG	3:J:320:PRO:HD2	2.29	0.63
3:M:929:ARG:HB2	3:M:929:ARG:CZ	2.27	0.63
1:A:224:GLY:O	1:A:225:LEU:HD23	1.97	0.63
1:B:513:ILE:HG22	1:B:513:ILE:O	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:302:MET:HE3	3:G:302:MET:C	2.23	0.63
3:G:319:MET:CG	3:G:320:PRO:HD2	2.29	0.63
3:L:302:MET:HE3	3:L:302:MET:C	2.23	0.63
3:O:94:ASP:OD2	3:Q:43:LYS:NZ	2.31	0.63
3:O:112:PHE:CZ	3:O:114:PRO:HG3	2.34	0.63
1:A:171:PRO:O	1:A:174:ASN:ND2	2.32	0.63
1:D:486:ILE:CG2	1:E:482:TYR:CD1	2.80	0.63
3:H:89:ASP:CG	3:H:932:ARG:HH12	2.06	0.63
3:I:94:ASP:OD2	3:K:43:LYS:NZ	2.31	0.63
3:L:209:GLN:O	3:M:835:MET:HE1	1.96	0.63
3:L:667:PRO:CD	3:O:726:SER:CB	2.76	0.63
3:M:89:ASP:CG	3:M:932:ARG:HH12	2.06	0.63
3:N:496:ASN:O	3:N:499:THR:HB	1.99	0.63
1:A:498:ARG:HD3	2:S:14:VAL:HG12	1.80	0.63
1:B:67:THR:HG21	1:C:449:VAL:HG22	1.80	0.63
1:C:477:ASN:C	1:C:479:GLN:N	2.53	0.63
3:F:112:PHE:CZ	3:F:114:PRO:HG3	2.34	0.63
3:I:89:ASP:CG	3:I:932:ARG:HH12	2.06	0.63
3:J:89:ASP:CG	3:J:932:ARG:HH12	2.06	0.63
3:J:747:SER:O	3:J:749:ASP:N	2.29	0.63
3:M:302:MET:HE3	3:M:302:MET:C	2.23	0.63
3:Q:112:PHE:CZ	3:Q:114:PRO:HG3	2.34	0.63
3:Q:302:MET:HE3	3:Q:302:MET:C	2.23	0.63
1:B:100:ASP:CG	1:C:452:ARG:HH12	2.07	0.63
1:B:210:PHE:HD2	1:B:240:ILE:HG22	1.63	0.63
1:C:445:MET:HE3	1:C:529:LEU:HB2	1.80	0.63
1:C:468:LEU:CD1	1:C:469:PRO:HD2	2.24	0.63
1:E:171:PRO:O	1:E:174:ASN:ND2	2.32	0.63
3:F:94:ASP:OD2	3:H:43:LYS:NZ	2.31	0.63
3:J:112:PHE:CZ	3:J:114:PRO:HG3	2.34	0.63
3:K:496:ASN:O	3:K:499:THR:HB	1.99	0.63
3:M:84:THR:HG23	3:M:350:GLN:NE2	2.14	0.63
3:N:59:ARG:HH11	3:N:623:HIS:CG	2.17	0.63
1:B:74:ASN:OD1	1:C:436:GLN:OE1	2.17	0.63
1:B:486:ILE:CG2	1:C:482:TYR:CE1	2.82	0.63
1:B:498:ARG:HD3	2:T:14:VAL:HG12	1.80	0.63
3:F:59:ARG:HH11	3:F:623:HIS:CG	2.17	0.63
3:F:89:ASP:CG	3:F:932:ARG:HH12	2.06	0.63
3:H:496:ASN:O	3:H:499:THR:HB	1.99	0.63
3:L:94:ASP:OD2	3:N:43:LYS:NZ	2.31	0.63
3:O:250:VAL:HG23	3:O:260:GLN:HG3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:319:MET:CG	3:P:320:PRO:HD2	2.29	0.63
3:Q:411:ASN:HB2	3:Q:461:ILE:O	1.99	0.63
1:A:468:LEU:CD1	1:A:469:PRO:HD2	2.24	0.63
1:A:513:ILE:O	1:A:513:ILE:HG22	1.97	0.63
1:C:171:PRO:O	1:C:174:ASN:ND2	2.32	0.63
1:D:138:MET:O	1:D:139:PHE:HB2	1.99	0.63
1:D:171:PRO:O	1:D:174:ASN:ND2	2.32	0.63
1:D:445:MET:HE3	1:D:529:LEU:HB2	1.80	0.63
3:G:43:LYS:NZ	3:H:94:ASP:OD2	2.31	0.63
3:G:675:ARG:NH1	3:G:921:VAL:O	2.32	0.63
3:H:84:THR:HG23	3:H:350:GLN:NE2	2.14	0.63
3:H:319:MET:CG	3:H:320:PRO:HD2	2.29	0.63
3:I:84:THR:HG23	3:I:350:GLN:NE2	2.14	0.63
3:J:43:LYS:NZ	3:K:94:ASP:OD2	2.31	0.63
3:K:59:ARG:HH11	3:K:623:HIS:CG	2.17	0.63
3:P:89:ASP:CG	3:P:932:ARG:HH12	2.06	0.63
1:B:477:ASN:C	1:B:479:GLN:N	2.53	0.63
3:F:57:THR:HG22	3:F:59:ARG:HD2	1.81	0.63
3:G:84:THR:HG23	3:G:350:GLN:NE2	2.14	0.63
3:I:302:MET:HE3	3:I:302:MET:C	2.23	0.63
3:J:496:ASN:O	3:J:499:THR:HB	1.99	0.63
3:N:84:THR:HG23	3:N:350:GLN:NE2	2.14	0.63
3:N:112:PHE:CZ	3:N:114:PRO:HG3	2.33	0.63
3:O:319:MET:CG	3:O:320:PRO:HD2	2.29	0.63
3:O:675:ARG:NH1	3:O:921:VAL:O	2.32	0.63
3:P:112:PHE:CZ	3:P:114:PRO:HG3	2.34	0.63
3:Q:59:ARG:HH11	3:Q:623:HIS:CG	2.17	0.63
1:A:134:VAL:HA	1:A:140:THR:OG1	1.98	0.62
1:A:210:PHE:HD2	1:A:240:ILE:HG22	1.63	0.62
1:C:207:GLY:O	1:C:208:VAL:HB	1.97	0.62
1:E:98:ASN:HD22	1:E:98:ASN:C	2.06	0.62
1:E:477:ASN:C	1:E:479:GLN:N	2.53	0.62
3:H:112:PHE:CZ	3:H:114:PRO:HG3	2.34	0.62
3:H:302:MET:HE3	3:H:302:MET:C	2.23	0.62
3:I:411:ASN:HB2	3:I:461:ILE:O	1.99	0.62
3:J:84:THR:HG23	3:J:350:GLN:NE2	2.14	0.62
3:L:84:THR:HG23	3:L:350:GLN:NE2	2.14	0.62
3:L:112:PHE:CZ	3:L:114:PRO:HG3	2.34	0.62
3:M:112:PHE:CZ	3:M:114:PRO:HG3	2.34	0.62
3:O:59:ARG:HH11	3:O:623:HIS:CG	2.17	0.62
3:O:84:THR:HG23	3:O:350:GLN:NE2	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:59:ARG:HH11	3:P:623:HIS:CG	2.17	0.62
3:P:250:VAL:HG23	3:P:260:GLN:HG3	1.80	0.62
3:P:411:ASN:HB2	3:P:461:ILE:O	1.99	0.62
3:Q:675:ARG:NH1	3:Q:921:VAL:O	2.32	0.62
1:B:134:VAL:HA	1:B:140:THR:OG1	1.99	0.62
1:B:138:MET:O	1:B:139:PHE:HB2	1.99	0.62
1:B:154:THR:HG22	1:B:155:LYS:N	2.14	0.62
1:B:498:ARG:C	1:B:499:PHE:HD2	2.08	0.62
1:C:134:VAL:HA	1:C:140:THR:OG1	1.99	0.62
3:F:929:ARG:HB2	3:F:929:ARG:CZ	2.27	0.62
3:G:112:PHE:CZ	3:G:114:PRO:HG3	2.34	0.62
3:I:112:PHE:CZ	3:I:114:PRO:HG3	2.34	0.62
3:K:84:THR:HG23	3:K:350:GLN:NE2	2.14	0.62
3:K:250:VAL:HG23	3:K:260:GLN:HG3	1.80	0.62
3:K:675:ARG:NH1	3:K:921:VAL:O	2.32	0.62
3:L:496:ASN:O	3:L:499:THR:HB	1.99	0.62
3:M:411:ASN:HB2	3:M:461:ILE:O	1.99	0.62
3:O:496:ASN:O	3:O:499:THR:HB	1.99	0.62
3:P:43:LYS:NZ	3:Q:94:ASP:OD2	2.31	0.62
3:P:675:ARG:NH1	3:P:921:VAL:O	2.32	0.62
3:Q:319:MET:CG	3:Q:320:PRO:HD2	2.29	0.62
1:A:154:THR:HG22	1:A:155:LYS:N	2.14	0.62
1:C:513:ILE:O	1:C:513:ILE:HG22	1.97	0.62
1:D:154:THR:HG22	1:D:155:LYS:N	2.14	0.62
1:E:498:ARG:HD3	2:W:14:VAL:HG12	1.80	0.62
3:G:57:THR:HG22	3:G:59:ARG:HD2	1.81	0.62
3:I:59:ARG:HH11	3:I:623:HIS:CG	2.17	0.62
3:I:250:VAL:HG23	3:I:260:GLN:HG3	1.79	0.62
3:M:57:THR:HG22	3:M:59:ARG:HD2	1.81	0.62
3:N:523:TRP:CZ2	3:N:862:LYS:HE2	2.35	0.62
3:N:675:ARG:NH1	3:N:921:VAL:O	2.32	0.62
1:B:544:THR:HG21	1:B:548:ARG:HA	1.80	0.62
3:H:57:THR:HG22	3:H:59:ARG:HD2	1.81	0.62
3:H:675:ARG:NH1	3:H:921:VAL:O	2.32	0.62
3:L:57:THR:HG22	3:L:59:ARG:HD2	1.81	0.62
3:Q:89:ASP:CG	3:Q:932:ARG:HH12	2.06	0.62
3:G:59:ARG:HH11	3:G:623:HIS:CG	2.17	0.62
3:G:411:ASN:HB2	3:G:461:ILE:O	1.99	0.62
3:H:523:TRP:CZ2	3:H:862:LYS:HE2	2.35	0.62
3:K:319:MET:CG	3:K:320:PRO:HD2	2.29	0.62
3:L:43:LYS:NZ	3:M:94:ASP:OD2	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:496:ASN:O	3:M:499:THR:HB	1.99	0.62
3:N:319:MET:CG	3:N:320:PRO:HD2	2.29	0.62
3:Q:496:ASN:O	3:Q:499:THR:HB	1.99	0.62
1:A:234:GLU:CD	1:E:487:ARG:HH21	2.06	0.62
1:A:498:ARG:C	1:A:499:PHE:HD2	2.08	0.62
1:C:210:PHE:HD2	1:C:240:ILE:HG22	1.63	0.62
3:F:84:THR:HG23	3:F:350:GLN:NE2	2.14	0.62
3:F:319:MET:CG	3:F:320:PRO:HD2	2.29	0.62
3:I:319:MET:CG	3:I:320:PRO:HD2	2.29	0.62
3:I:496:ASN:O	3:I:499:THR:HB	1.99	0.62
3:J:523:TRP:CZ2	3:J:862:LYS:HE2	2.35	0.62
3:L:675:ARG:NH1	3:L:921:VAL:O	2.32	0.62
3:O:229:MET:CE	3:O:309:ASN:HB3	2.06	0.62
3:O:411:ASN:HB2	3:O:461:ILE:O	1.99	0.62
3:P:84:THR:HG23	3:P:350:GLN:NE2	2.14	0.62
1:A:111:ILE:HD13	1:B:449:VAL:HG11	1.81	0.62
1:B:171:PRO:O	1:B:174:ASN:ND2	2.32	0.62
1:C:498:ARG:C	1:C:499:PHE:CD2	2.78	0.62
1:D:498:ARG:C	1:D:499:PHE:HD2	2.07	0.62
1:E:468:LEU:CD1	1:E:469:PRO:HD2	2.24	0.62
3:F:675:ARG:NH1	3:F:921:VAL:O	2.32	0.62
3:H:59:ARG:HH11	3:H:623:HIS:CG	2.17	0.62
3:M:250:VAL:HG23	3:M:260:GLN:HG3	1.80	0.62
3:M:675:ARG:NH1	3:M:921:VAL:O	2.32	0.62
3:N:655:ILE:HD11	3:N:915:LEU:HB2	1.82	0.62
3:P:496:ASN:O	3:P:499:THR:HB	1.99	0.62
1:A:100:ASP:OD2	1:B:452:ARG:NH1	2.32	0.62
1:A:481:VAL:HG12	1:A:481:VAL:O	2.00	0.62
1:B:292:TYR:CD1	1:B:378:VAL:HG12	2.35	0.62
3:J:59:ARG:HH11	3:J:623:HIS:CG	2.17	0.62
3:L:319:MET:CG	3:L:320:PRO:HD2	2.29	0.62
3:O:655:ILE:HD11	3:O:915:LEU:HB2	1.82	0.62
3:J:675:ARG:NH1	3:J:921:VAL:O	2.32	0.62
3:K:344:MET:HE3	3:K:357:VAL:O	2.00	0.62
3:K:929:ARG:HG3	3:K:934:VAL:O	2.00	0.62
1:A:292:TYR:CD1	1:A:378:VAL:HG12	2.35	0.62
1:A:553:TYR:CE2	1:B:424:LEU:HD21	2.35	0.62
1:C:67:THR:HG21	1:D:449:VAL:CG2	2.29	0.62
1:D:228:PRO:HG3	2:U:15:TYR:CE1	2.34	0.62
1:E:481:VAL:HG12	1:E:481:VAL:O	2.00	0.62
1:E:498:ARG:C	1:E:499:PHE:HD2	2.08	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:655:ILE:HD11	3:F:915:LEU:HB2	1.82	0.62
3:H:929:ARG:HG3	3:H:934:VAL:O	2.00	0.62
3:I:675:ARG:NH1	3:I:921:VAL:O	2.32	0.62
3:K:231:PRO:HG2	3:K:318:SER:HB2	1.82	0.62
3:K:411:ASN:HB2	3:K:461:ILE:O	1.99	0.62
3:P:755:VAL:HG22	3:P:756:ALA:N	2.15	0.62
3:Q:344:MET:HE3	3:Q:357:VAL:O	2.00	0.62
1:A:211:ASP:OD1	1:A:212:THR:N	2.31	0.61
1:B:98:ASN:HD22	1:B:98:ASN:C	2.06	0.61
1:B:498:ARG:C	1:B:499:PHE:CD2	2.78	0.61
1:C:98:ASN:HD22	1:C:98:ASN:C	2.06	0.61
1:C:138:MET:O	1:C:139:PHE:HB2	1.99	0.61
1:D:177:GLU:HG3	1:D:178:THR:N	2.15	0.61
3:F:43:LYS:NZ	3:G:94:ASP:OD2	2.31	0.61
3:G:344:MET:HE3	3:G:357:VAL:O	2.00	0.61
3:J:231:PRO:HG2	3:J:318:SER:HB2	1.82	0.61
3:L:59:ARG:HH11	3:L:623:HIS:CG	2.17	0.61
3:M:755:VAL:HG22	3:M:756:ALA:N	2.15	0.61
3:M:929:ARG:HG3	3:M:934:VAL:O	2.00	0.61
3:P:523:TRP:CZ2	3:P:862:LYS:HE2	2.35	0.61
3:P:526:ASP:OD1	3:P:862:LYS:NZ	2.32	0.61
1:A:138:MET:O	1:A:139:PHE:HB2	1.98	0.61
1:A:159:VAL:HG23	1:A:159:VAL:O	2.00	0.61
1:A:214:ASN:C	1:A:214:ASN:ND2	2.58	0.61
1:C:154:THR:HG22	1:C:155:LYS:N	2.14	0.61
1:D:385:ASP:OD1	1:D:389:ARG:HD2	2.00	0.61
1:D:498:ARG:C	1:D:499:PHE:CD2	2.78	0.61
1:E:385:ASP:OD1	1:E:389:ARG:HD2	2.00	0.61
3:F:929:ARG:HG3	3:F:934:VAL:O	2.00	0.61
3:G:496:ASN:O	3:G:499:THR:HB	1.99	0.61
3:M:319:MET:CG	3:M:320:PRO:HD2	2.28	0.61
3:O:523:TRP:CZ2	3:O:862:LYS:HE2	2.35	0.61
3:P:344:MET:HE3	3:P:357:VAL:O	2.00	0.61
3:Q:523:TRP:CZ2	3:Q:862:LYS:HE2	2.34	0.61
1:A:98:ASN:HD22	1:A:98:ASN:C	2.06	0.61
1:A:498:ARG:C	1:A:499:PHE:CD2	2.78	0.61
1:C:159:VAL:HG23	1:C:159:VAL:O	2.00	0.61
1:C:385:ASP:OD1	1:C:389:ARG:HD2	2.00	0.61
1:C:481:VAL:HG12	1:C:481:VAL:O	2.00	0.61
1:D:292:TYR:CD1	1:D:378:VAL:HG12	2.35	0.61
1:E:214:ASN:C	1:E:214:ASN:ND2	2.58	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:411:ASN:HB2	3:J:461:ILE:O	1.99	0.61
3:K:57:THR:HG22	3:K:59:ARG:HD2	1.81	0.61
3:K:523:TRP:CZ2	3:K:862:LYS:HE2	2.34	0.61
3:K:526:ASP:OD1	3:K:862:LYS:NZ	2.32	0.61
3:K:655:ILE:HD11	3:K:915:LEU:HB2	1.82	0.61
3:L:655:ILE:HD11	3:L:915:LEU:HB2	1.82	0.61
3:N:411:ASN:HB2	3:N:461:ILE:O	1.99	0.61
3:P:75:THR:O	3:P:586:LYS:NZ	2.30	0.61
3:Q:84:THR:HG23	3:Q:350:GLN:NE2	2.14	0.61
1:E:154:THR:HG22	1:E:155:LYS:N	2.14	0.61
1:E:159:VAL:HG23	1:E:159:VAL:O	2.00	0.61
3:J:344:MET:HE3	3:J:357:VAL:O	2.00	0.61
3:M:231:PRO:HG2	3:M:318:SER:HB2	1.82	0.61
3:M:523:TRP:CZ2	3:M:862:LYS:HE2	2.35	0.61
3:P:57:THR:HG22	3:P:59:ARG:HD2	1.81	0.61
1:A:449:VAL:HG11	1:E:111:ILE:HD13	1.83	0.61
1:B:385:ASP:OD1	1:B:389:ARG:HD2	2.00	0.61
1:E:378:VAL:CG2	1:E:379:ILE:H	2.14	0.61
3:F:231:PRO:HG2	3:F:318:SER:HB2	1.83	0.61
3:F:411:ASN:HB2	3:F:461:ILE:O	1.99	0.61
3:H:411:ASN:HB2	3:H:461:ILE:O	1.99	0.61
3:J:755:VAL:HG22	3:J:756:ALA:N	2.15	0.61
3:M:59:ARG:HH11	3:M:623:HIS:CG	2.17	0.61
1:A:385:ASP:OD1	1:A:389:ARG:HD2	2.00	0.61
1:B:481:VAL:HG12	1:B:481:VAL:O	2.00	0.61
1:C:292:TYR:CD1	1:C:378:VAL:HG12	2.35	0.61
1:C:486:ILE:CG2	1:D:482:TYR:CD1	2.84	0.61
1:E:177:GLU:HG3	1:E:178:THR:N	2.15	0.61
3:G:523:TRP:CZ2	3:G:862:LYS:HE2	2.35	0.61
3:G:755:VAL:HG22	3:G:756:ALA:N	2.15	0.61
3:H:755:VAL:HG22	3:H:756:ALA:N	2.16	0.61
3:P:929:ARG:HG3	3:P:934:VAL:O	2.00	0.61
1:C:498:ARG:C	1:C:499:PHE:HD2	2.08	0.61
1:D:159:VAL:HG23	1:D:159:VAL:O	2.00	0.61
1:D:430:VAL:HG21	1:D:517:SER:N	2.16	0.61
1:E:498:ARG:C	1:E:499:PHE:CD2	2.78	0.61
3:N:231:PRO:HG2	3:N:318:SER:HB2	1.82	0.61
3:Q:755:VAL:HG22	3:Q:756:ALA:N	2.16	0.61
1:B:214:ASN:C	1:B:214:ASN:ND2	2.58	0.61
1:C:99:ASN:HB3	1:D:452:ARG:NH2	2.16	0.61
1:C:430:VAL:HG21	1:C:517:SER:N	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:490:THR:HG22	1:E:481:VAL:HG12	1.82	0.61
3:G:929:ARG:HG3	3:G:934:VAL:O	2.00	0.61
3:I:523:TRP:CZ2	3:I:862:LYS:HE2	2.35	0.61
3:K:755:VAL:HG22	3:K:756:ALA:N	2.16	0.61
3:L:344:MET:HE3	3:L:357:VAL:O	2.00	0.61
3:L:411:ASN:HB2	3:L:461:ILE:O	1.99	0.61
1:A:477:ASN:C	1:A:479:GLN:N	2.53	0.61
1:B:159:VAL:O	1:B:159:VAL:HG23	2.00	0.61
1:C:68:ARG:NE	1:D:529:LEU:HD21	2.16	0.61
3:F:344:MET:HE3	3:F:357:VAL:O	2.00	0.61
3:F:496:ASN:O	3:F:499:THR:HB	1.99	0.61
3:F:523:TRP:CZ2	3:F:862:LYS:HE2	2.35	0.61
3:L:523:TRP:CZ2	3:L:862:LYS:HE2	2.35	0.61
3:O:755:VAL:HG22	3:O:756:ALA:N	2.16	0.61
1:A:177:GLU:HG3	1:A:178:THR:N	2.15	0.61
1:C:487:ARG:HH21	1:D:234:GLU:CD	2.08	0.61
1:D:378:VAL:CG2	1:D:379:ILE:H	2.14	0.61
1:D:481:VAL:HG12	1:D:481:VAL:O	2.00	0.61
2:S:18:ASP:O	2:S:18:ASP:CG	2.44	0.61
3:H:655:ILE:HD11	3:H:915:LEU:HB2	1.82	0.61
3:J:57:THR:HG22	3:J:59:ARG:HD2	1.82	0.61
3:J:469:ARG:NH2	3:J:828:VAL:HG21	2.16	0.61
3:K:469:ARG:NH2	3:K:828:VAL:HG21	2.16	0.61
3:L:231:PRO:HG2	3:L:318:SER:HB2	1.83	0.61
3:L:469:ARG:NH2	3:L:828:VAL:HG21	2.16	0.61
3:N:344:MET:HE3	3:N:357:VAL:O	2.00	0.61
3:O:344:MET:HE3	3:O:357:VAL:O	2.00	0.61
3:Q:231:PRO:HG2	3:Q:318:SER:HB2	1.82	0.61
1:A:378:VAL:CG2	1:A:379:ILE:H	2.14	0.60
1:A:430:VAL:HG21	1:A:517:SER:N	2.16	0.60
1:B:497:ASN:O	1:B:499:PHE:N	2.34	0.60
1:E:292:TYR:CD1	1:E:378:VAL:HG12	2.35	0.60
3:I:755:VAL:HG22	3:I:756:ALA:N	2.16	0.60
3:J:302:MET:HE2	3:J:304:THR:O	2.01	0.60
3:M:469:ARG:NH2	3:M:828:VAL:HG21	2.16	0.60
3:P:655:ILE:HD11	3:P:915:LEU:HB2	1.82	0.60
3:Q:929:ARG:HG3	3:Q:934:VAL:O	2.00	0.60
1:B:378:VAL:CG2	1:B:379:ILE:H	2.14	0.60
1:D:111:ILE:HD13	1:E:449:VAL:HG11	1.82	0.60
1:D:544:THR:HG21	1:D:548:ARG:HA	1.80	0.60
1:E:480:ALA:HB1	1:E:510:ALA:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:755:VAL:HG22	3:F:756:ALA:N	2.16	0.60
3:G:655:ILE:HD11	3:G:915:LEU:HB2	1.82	0.60
3:L:526:ASP:OD1	3:L:862:LYS:NZ	2.32	0.60
3:M:655:ILE:HD11	3:M:915:LEU:HB2	1.82	0.60
3:N:134:TRP:HB3	3:N:229:MET:CE	2.32	0.60
3:O:57:THR:HG22	3:O:59:ARG:HD2	1.82	0.60
3:Q:134:TRP:HB3	3:Q:229:MET:CE	2.32	0.60
1:A:68:ARG:HH11	1:A:68:ARG:CG	2.06	0.60
1:B:430:VAL:HG21	1:B:517:SER:N	2.16	0.60
1:C:480:ALA:HB1	1:C:510:ALA:HB3	1.83	0.60
1:C:497:ASN:O	1:C:499:PHE:N	2.35	0.60
1:E:481:VAL:HA	1:E:484:GLN:HB3	1.83	0.60
3:G:204:GLN:HE22	3:H:820:HIS:HA	1.67	0.60
3:G:469:ARG:NH2	3:G:828:VAL:HG21	2.16	0.60
3:H:344:MET:HE3	3:H:357:VAL:O	2.00	0.60
3:I:469:ARG:NH2	3:I:828:VAL:HG21	2.16	0.60
3:I:929:ARG:HG3	3:I:934:VAL:O	2.01	0.60
3:M:344:MET:HE3	3:M:357:VAL:O	2.00	0.60
1:C:273:ILE:HG23	1:C:273:ILE:O	2.02	0.60
1:C:378:VAL:CG2	1:C:379:ILE:H	2.14	0.60
1:C:493:THR:HB	1:C:495:VAL:HG23	1.84	0.60
3:J:204:GLN:HE22	3:K:820:HIS:HA	1.67	0.60
3:J:655:ILE:HD11	3:J:915:LEU:HB2	1.82	0.60
3:J:929:ARG:HG3	3:J:934:VAL:O	2.00	0.60
3:L:755:VAL:HG22	3:L:756:ALA:N	2.16	0.60
3:L:820:HIS:HA	3:N:204:GLN:HE22	1.67	0.60
3:O:204:GLN:HE22	3:P:820:HIS:HA	1.67	0.60
1:B:177:GLU:HG3	1:B:178:THR:N	2.15	0.60
1:C:214:ASN:C	1:C:214:ASN:ND2	2.58	0.60
1:D:481:VAL:HA	1:D:484:GLN:HB3	1.83	0.60
3:F:134:TRP:HB3	3:F:229:MET:CE	2.31	0.60
3:F:302:MET:HE3	3:F:302:MET:CA	2.32	0.60
3:G:302:MET:HE2	3:G:304:THR:O	2.01	0.60
3:H:68:ILE:HG23	3:H:69:PRO:HD2	1.84	0.60
3:I:655:ILE:HD11	3:I:915:LEU:HB2	1.82	0.60
3:L:302:MET:HE3	3:L:302:MET:CA	2.32	0.60
3:N:57:THR:HG22	3:N:59:ARG:HD2	1.81	0.60
3:N:755:VAL:HG22	3:N:756:ALA:N	2.16	0.60
3:N:929:ARG:HG3	3:N:934:VAL:O	2.00	0.60
3:Q:57:THR:HG22	3:Q:59:ARG:HD2	1.81	0.60
1:C:173:GLY:O	1:C:175:TYR:CD1	2.55	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:183:LEU:HD21	1:D:236:PHE:HE2	1.65	0.60
1:D:480:ALA:HB1	1:D:510:ALA:HB3	1.83	0.60
1:D:497:ASN:O	1:D:499:PHE:N	2.35	0.60
2:V:18:ASP:O	2:V:18:ASP:CG	2.44	0.60
3:I:134:TRP:HB3	3:I:229:MET:CE	2.32	0.60
3:I:302:MET:HE2	3:I:304:THR:O	2.01	0.60
3:I:344:MET:HE3	3:I:357:VAL:O	2.00	0.60
3:N:68:ILE:HG23	3:N:69:PRO:HD2	1.84	0.60
3:O:820:HIS:HA	3:Q:204:GLN:HE22	1.67	0.60
3:O:929:ARG:HG3	3:O:934:VAL:O	2.00	0.60
3:P:302:MET:HE3	3:P:302:MET:CA	2.32	0.60
1:B:211:ASP:OD1	1:B:212:THR:N	2.31	0.60
1:B:273:ILE:O	1:B:273:ILE:HG23	2.02	0.60
3:H:302:MET:HE2	3:H:304:THR:O	2.02	0.60
3:I:204:GLN:HE22	3:J:820:HIS:HA	1.67	0.60
3:M:302:MET:HE2	3:M:304:THR:O	2.01	0.60
3:N:574:LEU:HB3	3:N:575:PRO:HD2	1.84	0.60
3:P:204:GLN:HE22	3:Q:820:HIS:HA	1.67	0.60
3:P:302:MET:HE2	3:P:304:THR:O	2.01	0.60
3:Q:655:ILE:HD11	3:Q:915:LEU:HB2	1.82	0.60
1:B:481:VAL:HA	1:B:484:GLN:HB3	1.83	0.60
1:D:52:ARG:N	1:D:116:ARG:HH12	2.00	0.60
3:H:231:PRO:HG2	3:H:318:SER:HB2	1.82	0.60
3:N:302:MET:HE2	3:N:304:THR:O	2.01	0.60
3:P:231:PRO:HG2	3:P:318:SER:HB2	1.83	0.60
1:C:52:ARG:N	1:C:116:ARG:HH12	2.00	0.60
2:W:18:ASP:O	2:W:18:ASP:CG	2.44	0.60
3:F:469:ARG:NH2	3:F:828:VAL:HG21	2.16	0.60
3:G:68:ILE:HG23	3:G:69:PRO:HD2	1.84	0.60
3:I:302:MET:HE3	3:I:302:MET:CA	2.32	0.60
3:I:526:ASP:OD1	3:I:862:LYS:NZ	2.32	0.60
3:L:574:LEU:HB3	3:L:575:PRO:HD2	1.84	0.60
3:O:134:TRP:HB3	3:O:229:MET:CE	2.31	0.60
3:Q:574:LEU:HB3	3:Q:575:PRO:HD2	1.84	0.60
1:A:236:PHE:HE2	1:E:183:LEU:HD21	1.66	0.60
1:C:177:GLU:HG3	1:C:178:THR:N	2.15	0.60
1:D:173:GLY:O	1:D:175:TYR:CD1	2.55	0.60
2:U:18:ASP:O	2:U:18:ASP:CG	2.44	0.60
3:I:57:THR:HG22	3:I:59:ARG:HD2	1.81	0.60
3:L:929:ARG:HG3	3:L:934:VAL:O	2.00	0.60
3:N:469:ARG:NH2	3:N:828:VAL:HG21	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:481:VAL:CG1	1:E:490:THR:HG22	2.31	0.59
1:A:481:VAL:HA	1:A:484:GLN:HB3	1.82	0.59
1:B:538:VAL:O	1:B:538:VAL:HG23	2.02	0.59
1:E:493:THR:HB	1:E:495:VAL:HG23	1.84	0.59
3:F:820:HIS:HA	3:H:204:GLN:HE22	1.67	0.59
3:G:134:TRP:HB3	3:G:229:MET:CE	2.32	0.59
3:G:302:MET:HE3	3:G:302:MET:CA	2.32	0.59
3:I:231:PRO:HG2	3:I:318:SER:HB2	1.83	0.59
3:I:574:LEU:HB3	3:I:575:PRO:HD2	1.84	0.59
3:J:134:TRP:HB3	3:J:229:MET:CE	2.32	0.59
3:M:574:LEU:HB3	3:M:575:PRO:HD2	1.84	0.59
3:O:469:ARG:NH2	3:O:828:VAL:HG21	2.16	0.59
3:P:134:TRP:HB3	3:P:229:MET:CE	2.32	0.59
1:A:497:ASN:O	1:A:499:PHE:N	2.34	0.59
1:B:210:PHE:CD2	1:B:240:ILE:HG22	2.37	0.59
1:B:233:ASN:OD1	1:B:509:PRO:HG3	2.02	0.59
1:B:468:LEU:CD1	1:B:469:PRO:HD2	2.24	0.59
1:C:435:GLU:HA	1:C:435:GLU:OE1	2.03	0.59
3:F:68:ILE:HG23	3:F:69:PRO:HD2	1.84	0.59
3:F:204:GLN:HE22	3:G:820:HIS:HA	1.67	0.59
3:L:66:ARG:NH2	3:L:68:ILE:HD11	2.18	0.59
3:P:469:ARG:NH2	3:P:828:VAL:HG21	2.16	0.59
3:Q:469:ARG:NH2	3:Q:828:VAL:HG21	2.16	0.59
1:A:173:GLY:O	1:A:175:TYR:CD1	2.55	0.59
1:A:538:VAL:HG23	1:A:538:VAL:O	2.02	0.59
1:B:279:GLU:O	1:B:280:GLY:C	2.45	0.59
1:C:237:HIS:CD2	1:C:238:PRO:O	2.56	0.59
1:C:278:LEU:HD22	1:C:406:TRP:HA	1.84	0.59
1:E:233:ASN:OD1	1:E:509:PRO:HG3	2.02	0.59
1:E:278:LEU:HD22	1:E:406:TRP:HA	1.84	0.59
1:E:389:ARG:HG2	1:E:389:ARG:HH11	1.67	0.59
2:T:18:ASP:O	2:T:18:ASP:CG	2.44	0.59
3:K:302:MET:HE2	3:K:304:THR:O	2.01	0.59
3:M:68:ILE:HG23	3:M:69:PRO:HD2	1.84	0.59
3:M:204:GLN:HE22	3:N:820:HIS:HA	1.67	0.59
3:O:66:ARG:NH2	3:O:68:ILE:HD11	2.17	0.59
3:O:231:PRO:HG2	3:O:318:SER:HB2	1.83	0.59
3:P:574:LEU:HB3	3:P:575:PRO:HD2	1.84	0.59
3:Q:302:MET:HE3	3:Q:302:MET:CA	2.32	0.59
1:A:208:VAL:HG22	1:A:242:LEU:CD2	2.33	0.59
1:B:173:GLY:O	1:B:175:TYR:CD1	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:389:ARG:HH11	1:C:389:ARG:HG2	1.68	0.59
1:C:481:VAL:HA	1:C:484:GLN:HB3	1.83	0.59
1:D:214:ASN:C	1:D:214:ASN:ND2	2.58	0.59
1:D:378:VAL:CG2	1:D:379:ILE:N	2.65	0.59
1:E:173:GLY:O	1:E:175:TYR:CD1	2.55	0.59
1:E:497:ASN:O	1:E:499:PHE:N	2.35	0.59
3:F:302:MET:HE2	3:F:304:THR:O	2.02	0.59
3:G:231:PRO:HG2	3:G:318:SER:HB2	1.82	0.59
3:L:134:TRP:HB3	3:L:229:MET:CE	2.32	0.59
1:A:237:HIS:CD2	1:A:238:PRO:O	2.56	0.59
1:A:378:VAL:CG2	1:A:379:ILE:N	2.65	0.59
1:B:378:VAL:CG2	1:B:379:ILE:N	2.65	0.59
1:C:378:VAL:CG2	1:C:379:ILE:N	2.65	0.59
1:D:208:VAL:HG22	1:D:242:LEU:CD2	2.33	0.59
1:D:210:PHE:CD2	1:D:240:ILE:HG22	2.37	0.59
1:D:493:THR:HB	1:D:495:VAL:HG23	1.84	0.59
1:E:273:ILE:O	1:E:273:ILE:HG23	2.02	0.59
3:F:66:ARG:NH2	3:F:68:ILE:HD11	2.18	0.59
3:I:66:ARG:NH2	3:I:68:ILE:HD11	2.18	0.59
3:L:68:ILE:HG23	3:L:69:PRO:HD2	1.84	0.59
3:O:68:ILE:HG23	3:O:69:PRO:HD2	1.84	0.59
1:A:480:ALA:HB1	1:A:510:ALA:HB3	1.83	0.59
1:D:233:ASN:OD1	1:D:509:PRO:HG3	2.02	0.59
3:H:469:ARG:NH2	3:H:828:VAL:HG21	2.16	0.59
3:H:574:LEU:HB3	3:H:575:PRO:HD2	1.84	0.59
3:J:66:ARG:NH2	3:J:68:ILE:HD11	2.17	0.59
3:L:302:MET:HE2	3:L:304:THR:O	2.01	0.59
3:O:302:MET:HE3	3:O:302:MET:CA	2.32	0.59
1:A:210:PHE:CD2	1:A:240:ILE:HG22	2.37	0.59
1:B:435:GLU:OE1	1:B:435:GLU:HA	2.03	0.59
1:B:480:ALA:HB1	1:B:510:ALA:HB3	1.83	0.59
1:C:499:PHE:CD2	1:C:499:PHE:N	2.69	0.59
1:D:278:LEU:HD22	1:D:406:TRP:HA	1.84	0.59
3:F:574:LEU:HB3	3:F:575:PRO:HD2	1.84	0.59
3:J:574:LEU:HB3	3:J:575:PRO:HD2	1.84	0.59
3:K:66:ARG:NH2	3:K:68:ILE:HD11	2.17	0.59
3:K:134:TRP:HB3	3:K:229:MET:CE	2.32	0.59
3:L:204:GLN:HE22	3:M:820:HIS:HA	1.67	0.59
3:M:134:TRP:HB3	3:M:229:MET:CE	2.32	0.59
3:O:574:LEU:HB3	3:O:575:PRO:HD2	1.84	0.59
1:A:278:LEU:HD22	1:A:406:TRP:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:498:ARG:O	2:S:16:PRO:HD3	2.03	0.59
1:B:499:PHE:CD2	1:B:499:PHE:N	2.69	0.59
1:C:100:ASP:CG	1:D:452:ARG:HH12	2.10	0.59
1:C:208:VAL:HG22	1:C:242:LEU:CD2	2.33	0.59
1:D:183:LEU:HD21	1:E:236:PHE:HE2	1.67	0.59
1:D:237:HIS:CD2	1:D:238:PRO:O	2.56	0.59
1:E:479:GLN:O	1:E:483:SER:N	2.36	0.59
3:G:66:ARG:NH2	3:G:68:ILE:HD11	2.17	0.59
3:K:302:MET:HE3	3:K:302:MET:CA	2.32	0.59
3:M:302:MET:HE3	3:M:302:MET:CA	2.32	0.59
3:Q:66:ARG:NH2	3:Q:68:ILE:HD11	2.17	0.59
3:Q:302:MET:HE2	3:Q:304:THR:O	2.02	0.59
1:A:411:ASN:OD1	1:A:411:ASN:N	2.36	0.59
1:C:479:GLN:O	1:C:483:SER:N	2.36	0.59
1:E:122:ASP:OD1	1:E:528:THR:HG22	2.03	0.59
1:E:208:VAL:HG22	1:E:242:LEU:CD2	2.33	0.59
1:E:378:VAL:CG2	1:E:379:ILE:N	2.65	0.59
3:H:134:TRP:HB3	3:H:229:MET:CE	2.32	0.59
3:I:820:HIS:HA	3:K:204:GLN:HE22	1.67	0.59
3:J:302:MET:HE3	3:J:302:MET:CA	2.32	0.59
3:K:68:ILE:HG21	3:M:73:GLU:HG2	1.85	0.59
3:O:302:MET:HE2	3:O:304:THR:O	2.01	0.59
1:A:273:ILE:HG23	1:A:273:ILE:O	2.02	0.59
1:A:436:GLN:HG2	1:E:558:LEU:HD21	1.83	0.59
1:A:499:PHE:CD2	1:A:499:PHE:N	2.69	0.59
1:B:52:ARG:N	1:B:116:ARG:HH12	2.00	0.59
1:B:208:VAL:HG22	1:B:242:LEU:CD2	2.33	0.59
1:B:237:HIS:CD2	1:B:238:PRO:O	2.56	0.59
1:D:477:ASN:HB3	1:E:476:TYR:CE2	2.38	0.59
1:E:498:ARG:O	2:W:16:PRO:HD3	2.03	0.59
3:H:66:ARG:NH2	3:H:68:ILE:HD11	2.17	0.59
3:H:68:ILE:HG21	3:I:73:GLU:HG2	1.85	0.59
3:H:75:THR:O	3:H:586:LYS:NZ	2.30	0.59
3:Q:68:ILE:HG23	3:Q:69:PRO:HD2	1.84	0.59
1:A:52:ARG:N	1:A:116:ARG:HH12	2.00	0.58
1:A:493:THR:HB	1:A:495:VAL:HG23	1.84	0.58
1:B:490:THR:HG23	1:C:481:VAL:O	2.02	0.58
1:D:411:ASN:OD1	1:D:411:ASN:N	2.36	0.58
1:E:52:ARG:N	1:E:116:ARG:HH12	2.00	0.58
1:E:237:HIS:CD2	1:E:238:PRO:O	2.56	0.58
1:E:499:PHE:CD2	1:E:499:PHE:N	2.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:233:ASN:OD1	1:A:509:PRO:HG3	2.02	0.58
1:A:389:ARG:HG2	1:A:389:ARG:HH11	1.67	0.58
1:A:476:TYR:CE2	1:E:477:ASN:HB3	2.38	0.58
1:B:389:ARG:HG2	1:B:389:ARG:HH11	1.67	0.58
1:C:210:PHE:CD2	1:C:240:ILE:HG22	2.37	0.58
1:C:279:GLU:O	1:C:280:GLY:C	2.45	0.58
1:D:560:ILE:HD11	1:E:465:ALA:HB3	1.86	0.58
1:E:210:PHE:CD2	1:E:240:ILE:HG22	2.37	0.58
1:E:504:ILE:O	1:E:506:ALA:N	2.37	0.58
3:I:68:ILE:HG23	3:I:69:PRO:HD2	1.84	0.58
3:K:68:ILE:HG23	3:K:69:PRO:HD2	1.84	0.58
3:K:574:LEU:HB3	3:K:575:PRO:HD2	1.84	0.58
3:N:66:ARG:NH2	3:N:68:ILE:HD11	2.17	0.58
3:N:250:VAL:CG2	3:N:260:GLN:HG3	2.34	0.58
1:A:68:ARG:NE	1:B:529:LEU:HD21	2.18	0.58
1:A:504:ILE:O	1:A:506:ALA:N	2.37	0.58
1:B:295:SER:OG	1:B:377:PRO:HD3	2.03	0.58
1:B:411:ASN:OD1	1:B:411:ASN:N	2.36	0.58
1:C:490:THR:HG22	1:D:481:VAL:CG1	2.33	0.58
1:D:122:ASP:OD1	1:D:528:THR:HG22	2.03	0.58
1:D:273:ILE:HG23	1:D:273:ILE:O	2.02	0.58
1:E:430:VAL:HG21	1:E:517:SER:N	2.16	0.58
3:K:250:VAL:CG2	3:K:260:GLN:HG3	2.34	0.58
3:Q:229:MET:CE	3:Q:309:ASN:HB3	2.06	0.58
3:Q:250:VAL:CG2	3:Q:260:GLN:HG3	2.34	0.58
1:C:233:ASN:OD1	1:C:509:PRO:HG3	2.02	0.58
1:C:295:SER:OG	1:C:377:PRO:HD3	2.03	0.58
1:D:211:ASP:OD1	1:D:212:THR:N	2.31	0.58
3:M:362:ASP:CB	3:M:941:ARG:HH22	2.15	0.58
1:B:278:LEU:HD22	1:B:406:TRP:HA	1.84	0.58
1:B:479:GLN:O	1:B:483:SER:N	2.36	0.58
1:C:211:ASP:OD1	1:C:212:THR:N	2.31	0.58
3:F:250:VAL:CG2	3:F:260:GLN:HG3	2.34	0.58
3:M:250:VAL:CG2	3:M:260:GLN:HG3	2.34	0.58
3:Q:362:ASP:CB	3:Q:941:ARG:HH22	2.15	0.58
1:B:274:THR:CG2	1:B:275:TYR:N	2.66	0.58
1:C:498:ARG:O	2:U:16:PRO:HD3	2.03	0.58
1:D:498:ARG:O	2:V:16:PRO:HD3	2.03	0.58
1:E:411:ASN:OD1	1:E:411:ASN:N	2.36	0.58
3:G:574:LEU:HB3	3:G:575:PRO:HD2	1.84	0.58
3:H:302:MET:HE3	3:H:302:MET:CA	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:68:ILE:HG23	3:J:69:PRO:HD2	1.84	0.58
3:M:66:ARG:NH2	3:M:68:ILE:HD11	2.17	0.58
3:M:526:ASP:OD1	3:M:862:LYS:NZ	2.32	0.58
1:A:279:GLU:O	1:A:280:GLY:C	2.45	0.58
1:B:122:ASP:OD1	1:B:528:THR:HG22	2.03	0.58
1:B:486:ILE:HG21	1:C:482:TYR:CD1	2.39	0.58
1:B:493:THR:HB	1:B:495:VAL:HG23	1.84	0.58
3:H:250:VAL:CG2	3:H:260:GLN:HG3	2.34	0.58
3:I:250:VAL:CG2	3:I:260:GLN:HG3	2.34	0.58
3:L:362:ASP:CB	3:L:941:ARG:HH22	2.15	0.58
1:C:492:LEU:HB2	1:D:230:VAL:CG1	2.29	0.58
1:C:504:ILE:O	1:C:506:ALA:N	2.37	0.58
1:D:175:TYR:CD1	1:D:175:TYR:N	2.72	0.58
1:D:295:SER:OG	1:D:377:PRO:HD3	2.03	0.58
1:E:274:THR:CG2	1:E:275:TYR:N	2.67	0.58
1:E:279:GLU:O	1:E:280:GLY:C	2.46	0.58
3:G:362:ASP:CB	3:G:941:ARG:HH22	2.15	0.58
3:P:66:ARG:NH2	3:P:68:ILE:HD11	2.17	0.58
1:A:274:THR:CG2	1:A:275:TYR:N	2.67	0.58
1:C:378:VAL:C	1:C:380:LYS:N	2.62	0.58
1:C:441:LEU:N	1:C:442:PRO:HD3	2.19	0.58
1:C:538:VAL:HG23	1:C:538:VAL:O	2.02	0.58
1:D:538:VAL:HG23	1:D:538:VAL:O	2.02	0.58
1:E:295:SER:OG	1:E:377:PRO:HD3	2.03	0.58
3:F:75:THR:O	3:F:586:LYS:NZ	2.30	0.58
3:O:250:VAL:CG2	3:O:260:GLN:HG3	2.34	0.58
3:P:250:VAL:CG2	3:P:260:GLN:HG3	2.34	0.58
1:A:435:GLU:OE1	1:A:435:GLU:HA	2.03	0.58
1:A:479:GLN:O	1:A:483:SER:N	2.36	0.58
1:B:175:TYR:CD1	1:B:175:TYR:N	2.72	0.58
1:D:279:GLU:O	1:D:280:GLY:C	2.45	0.58
1:D:389:ARG:HG2	1:D:389:ARG:HH11	1.67	0.58
1:E:538:VAL:HG23	1:E:538:VAL:O	2.02	0.58
3:G:499:THR:HG23	3:G:501:ASP:N	2.19	0.58
3:N:302:MET:HE3	3:N:302:MET:CA	2.32	0.58
1:A:122:ASP:OD1	1:A:528:THR:HG22	2.03	0.57
1:D:479:GLN:O	1:D:483:SER:N	2.36	0.57
2:W:15:TYR:HD2	2:W:16:PRO:N	2.02	0.57
3:J:250:VAL:CG2	3:J:260:GLN:HG3	2.34	0.57
3:L:250:VAL:CG2	3:L:260:GLN:HG3	2.33	0.57
3:L:499:THR:HG23	3:L:501:ASP:N	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:477:ASN:HB3	1:B:476:TYR:CE2	2.39	0.57
1:B:175:TYR:H	1:B:175:TYR:HD1	1.52	0.57
1:C:122:ASP:OD1	1:C:528:THR:HG22	2.03	0.57
1:C:411:ASN:OD1	1:C:411:ASN:N	2.36	0.57
1:D:441:LEU:N	1:D:442:PRO:HD3	2.19	0.57
1:D:504:ILE:O	1:D:506:ALA:N	2.37	0.57
3:F:73:GLU:OE2	3:L:68:ILE:HG12	2.04	0.57
3:O:571:LEU:HD12	3:O:640:GLN:OE1	2.05	0.57
3:Q:75:THR:O	3:Q:586:LYS:NZ	2.30	0.57
1:A:175:TYR:CD1	1:A:175:TYR:N	2.72	0.57
1:B:504:ILE:O	1:B:506:ALA:N	2.37	0.57
3:H:499:THR:HG23	3:H:501:ASP:N	2.20	0.57
3:P:68:ILE:HG23	3:P:69:PRO:HD2	1.84	0.57
1:A:378:VAL:C	1:A:380:LYS:N	2.62	0.57
1:B:498:ARG:O	2:T:16:PRO:HD3	2.03	0.57
1:D:378:VAL:C	1:D:380:LYS:N	2.62	0.57
1:E:175:TYR:CD1	1:E:175:TYR:N	2.72	0.57
1:E:435:GLU:OE1	1:E:435:GLU:HA	2.03	0.57
3:G:571:LEU:HD12	3:G:640:GLN:OE1	2.04	0.57
3:M:571:LEU:HD12	3:M:640:GLN:OE1	2.05	0.57
3:O:362:ASP:CB	3:O:941:ARG:HH22	2.15	0.57
3:Q:499:THR:HG23	3:Q:501:ASP:N	2.20	0.57
1:A:295:SER:OG	1:A:377:PRO:HD3	2.03	0.57
1:B:99:ASN:HB3	1:C:452:ARG:NH2	2.19	0.57
1:C:274:THR:CG2	1:C:275:TYR:N	2.67	0.57
3:G:250:VAL:CG2	3:G:260:GLN:HG3	2.34	0.57
3:G:526:ASP:OD1	3:G:862:LYS:NZ	2.32	0.57
3:I:499:THR:HG23	3:I:501:ASP:N	2.20	0.57
3:J:75:THR:O	3:J:586:LYS:NZ	2.30	0.57
1:D:57:TYR:CD2	1:E:450:THR:HG22	2.39	0.57
1:D:468:LEU:CD1	1:D:469:PRO:HD2	2.24	0.57
1:D:500:PRO:HG2	1:D:501:GLU:OE2	2.05	0.57
2:S:15:TYR:HD2	2:S:16:PRO:N	2.02	0.57
3:F:499:THR:HG23	3:F:501:ASP:N	2.19	0.57
3:F:571:LEU:HD12	3:F:640:GLN:OE1	2.05	0.57
1:A:500:PRO:HG2	1:A:501:GLU:OE2	2.05	0.57
1:B:113:LEU:O	1:B:114:ASP:C	2.47	0.57
1:B:441:LEU:N	1:B:442:PRO:HD3	2.19	0.57
1:B:500:PRO:HG2	1:B:501:GLU:OE2	2.04	0.57
1:C:477:ASN:HB3	1:D:476:TYR:CE2	2.39	0.57
1:D:88:HIS:ND1	1:D:555:TYR:O	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:274:THR:CG2	1:D:275:TYR:N	2.67	0.57
1:E:211:ASP:OD1	1:E:212:THR:N	2.31	0.57
1:E:500:PRO:HG2	1:E:501:GLU:OE2	2.05	0.57
2:W:15:TYR:HD2	2:W:16:PRO:CD	2.18	0.57
3:F:526:ASP:OD1	3:F:862:LYS:NZ	2.32	0.57
3:P:571:LEU:HD12	3:P:640:GLN:OE1	2.05	0.57
1:A:558:LEU:HD21	1:B:436:GLN:HG2	1.86	0.57
1:C:175:TYR:CD1	1:C:175:TYR:N	2.72	0.57
1:D:175:TYR:HD1	1:D:175:TYR:H	1.52	0.57
1:D:435:GLU:OE1	1:D:435:GLU:HA	2.03	0.57
3:K:499:THR:HG23	3:K:501:ASP:N	2.20	0.57
3:O:819:LEU:CD2	3:O:831:LEU:HD11	2.35	0.57
1:A:113:LEU:O	1:A:114:ASP:C	2.47	0.57
1:A:175:TYR:HD1	1:A:175:TYR:H	1.52	0.57
1:B:492:LEU:CB	1:C:230:VAL:HG11	2.34	0.57
3:F:545:ARG:NH2	3:F:593:GLN:OE1	2.38	0.57
3:K:75:THR:O	3:K:586:LYS:NZ	2.30	0.57
3:M:499:THR:HG23	3:M:501:ASP:N	2.19	0.57
3:O:499:THR:HG23	3:O:501:ASP:N	2.19	0.57
3:P:819:LEU:CD2	3:P:831:LEU:HD11	2.35	0.57
3:Q:545:ARG:NH2	3:Q:593:GLN:OE1	2.38	0.57
1:C:68:ARG:NH1	1:C:68:ARG:CG	2.67	0.57
2:T:15:TYR:HD2	2:T:16:PRO:N	2.02	0.57
2:T:15:TYR:HD2	2:T:16:PRO:CD	2.18	0.57
3:I:545:ARG:NH2	3:I:593:GLN:OE1	2.38	0.57
3:N:545:ARG:NH2	3:N:593:GLN:OE1	2.38	0.57
1:A:151:ARG:HB3	1:A:201:VAL:H	1.70	0.56
1:A:403:TYR:HD1	1:A:504:ILE:HG12	1.69	0.56
1:A:441:LEU:N	1:A:442:PRO:HD3	2.19	0.56
1:B:258:LEU:CD1	1:B:430:VAL:HA	2.35	0.56
1:C:258:LEU:CD1	1:C:430:VAL:HA	2.35	0.56
1:C:431:THR:O	1:C:432:CYS:HB2	2.05	0.56
1:C:500:PRO:HG2	1:C:501:GLU:OE2	2.05	0.56
1:D:520:VAL:HG23	1:D:521:PRO:HD2	1.87	0.56
1:D:558:LEU:HD12	1:D:558:LEU:C	2.30	0.56
2:U:15:TYR:HD2	2:U:16:PRO:N	2.02	0.56
3:I:819:LEU:CD2	3:I:831:LEU:HD11	2.35	0.56
3:K:571:LEU:HD12	3:K:640:GLN:OE1	2.05	0.56
3:P:545:ARG:NH2	3:P:593:GLN:OE1	2.38	0.56
3:P:566:PHE:HE2	3:P:925:VAL:HG23	1.70	0.56
1:B:151:ARG:HB3	1:B:201:VAL:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:151:ARG:HB3	1:D:201:VAL:H	1.71	0.56
1:D:490:THR:HG22	1:E:481:VAL:CG1	2.34	0.56
1:E:378:VAL:C	1:E:380:LYS:N	2.62	0.56
1:E:520:VAL:HG23	1:E:521:PRO:HD2	1.87	0.56
2:V:15:TYR:HD2	2:V:16:PRO:CD	2.18	0.56
3:F:75:THR:HG23	3:F:76:ALA:H	1.71	0.56
3:F:819:LEU:CD2	3:F:831:LEU:HD11	2.35	0.56
3:I:578:TYR:HD2	3:I:935:ILE:HD11	1.70	0.56
3:J:499:THR:HG23	3:J:501:ASP:N	2.19	0.56
3:J:578:TYR:HD2	3:J:935:ILE:HD11	1.70	0.56
3:J:819:LEU:CD2	3:J:831:LEU:HD11	2.35	0.56
3:L:571:LEU:HD12	3:L:640:GLN:OE1	2.04	0.56
3:O:817:GLY:O	3:O:821:GLN:HG3	2.05	0.56
1:A:67:THR:OG1	1:B:449:VAL:HG23	2.06	0.56
1:A:258:LEU:CD1	1:A:430:VAL:HA	2.35	0.56
1:A:558:LEU:C	1:A:558:LEU:HD12	2.31	0.56
1:B:88:HIS:ND1	1:B:555:TYR:O	2.38	0.56
1:C:88:HIS:HD2	1:D:267:PHE:CZ	2.24	0.56
1:C:463:VAL:HB	1:C:529:LEU:HD13	1.88	0.56
1:D:499:PHE:CD2	1:D:499:PHE:N	2.69	0.56
1:E:154:THR:CG2	1:E:155:LYS:N	2.69	0.56
1:E:258:LEU:CD1	1:E:430:VAL:HA	2.35	0.56
1:E:441:LEU:N	1:E:442:PRO:HD3	2.19	0.56
1:E:558:LEU:C	1:E:558:LEU:HD12	2.30	0.56
2:V:15:TYR:HD2	2:V:16:PRO:N	2.02	0.56
3:F:73:GLU:OE2	3:L:68:ILE:HB	2.05	0.56
3:F:566:PHE:HE2	3:F:925:VAL:HG23	1.70	0.56
3:G:578:TYR:HD2	3:G:935:ILE:HD11	1.70	0.56
3:H:75:THR:HG23	3:H:76:ALA:H	1.71	0.56
3:K:545:ARG:NH2	3:K:593:GLN:OE1	2.38	0.56
3:L:817:GLY:O	3:L:821:GLN:HG3	2.06	0.56
3:M:75:THR:O	3:M:586:LYS:NZ	2.30	0.56
3:M:545:ARG:NH2	3:M:593:GLN:OE1	2.38	0.56
3:M:566:PHE:HE2	3:M:925:VAL:HG23	1.70	0.56
3:M:578:TYR:HD2	3:M:935:ILE:HD11	1.70	0.56
3:N:566:PHE:HE2	3:N:925:VAL:HG23	1.70	0.56
3:N:571:LEU:HD12	3:N:640:GLN:OE1	2.04	0.56
3:O:639:ASP:OD1	3:O:928:HIS:HD2	1.89	0.56
3:P:499:THR:HG23	3:P:501:ASP:N	2.19	0.56
3:Q:578:TYR:HD2	3:Q:935:ILE:HD11	1.70	0.56
3:Q:819:LEU:CD2	3:Q:831:LEU:HD11	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:99:ASN:HB3	1:B:452:ARG:NH2	2.20	0.56
1:B:463:VAL:HB	1:B:529:LEU:HD13	1.87	0.56
1:B:558:LEU:C	1:B:558:LEU:HD12	2.31	0.56
3:F:362:ASP:CB	3:F:941:ARG:HH22	2.15	0.56
3:F:817:GLY:O	3:F:821:GLN:HG3	2.06	0.56
3:G:545:ARG:NH2	3:G:593:GLN:OE1	2.38	0.56
3:N:499:THR:HG23	3:N:501:ASP:N	2.20	0.56
1:A:130:ASN:HA	1:A:519:ASN:ND2	2.21	0.56
1:D:86:ASN:HB3	1:D:90:ASN:O	2.06	0.56
1:D:130:ASN:HD22	1:D:130:ASN:C	2.14	0.56
1:E:113:LEU:O	1:E:114:ASP:C	2.47	0.56
1:E:130:ASN:HA	1:E:519:ASN:ND2	2.21	0.56
3:G:75:THR:HG23	3:G:76:ALA:H	1.71	0.56
3:G:639:ASP:OD1	3:G:928:HIS:HD2	1.89	0.56
3:J:526:ASP:OD1	3:J:862:LYS:NZ	2.32	0.56
3:J:545:ARG:NH2	3:J:593:GLN:OE1	2.38	0.56
3:J:571:LEU:HD12	3:J:640:GLN:OE1	2.05	0.56
3:J:817:GLY:O	3:J:821:GLN:HG3	2.06	0.56
3:K:819:LEU:CD2	3:K:831:LEU:HD11	2.35	0.56
3:L:639:ASP:OD1	3:L:928:HIS:HD2	1.89	0.56
3:Q:817:GLY:O	3:Q:821:GLN:HG3	2.06	0.56
1:A:449:VAL:CG2	1:E:67:THR:HG21	2.36	0.56
1:C:403:TYR:HD1	1:C:504:ILE:HG12	1.68	0.56
1:D:258:LEU:CD1	1:D:430:VAL:HA	2.35	0.56
1:E:88:HIS:ND1	1:E:555:TYR:O	2.38	0.56
1:E:175:TYR:H	1:E:175:TYR:HD1	1.52	0.56
3:H:362:ASP:CB	3:H:941:ARG:HH22	2.15	0.56
3:H:566:PHE:HE2	3:H:925:VAL:HG23	1.70	0.56
3:J:566:PHE:HE2	3:J:925:VAL:HG23	1.70	0.56
3:N:526:ASP:OD1	3:N:862:LYS:NZ	2.32	0.56
3:N:639:ASP:OD1	3:N:928:HIS:HD2	1.89	0.56
3:N:819:LEU:CD2	3:N:831:LEU:HD11	2.35	0.56
3:O:941:ARG:HD2	3:O:944:PHE:O	2.06	0.56
3:Q:571:LEU:HD12	3:Q:640:GLN:OE1	2.05	0.56
3:Q:639:ASP:OD1	3:Q:928:HIS:HD2	1.89	0.56
1:A:67:THR:OG1	1:A:68:ARG:N	2.39	0.56
1:A:86:ASN:HB3	1:A:90:ASN:O	2.06	0.56
1:C:151:ARG:HB3	1:C:201:VAL:H	1.70	0.56
1:E:86:ASN:HB3	1:E:90:ASN:O	2.06	0.56
3:F:639:ASP:OD1	3:F:928:HIS:HD2	1.89	0.56
3:H:545:ARG:NH2	3:H:593:GLN:OE1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:571:LEU:HD12	3:H:640:GLN:OE1	2.05	0.56
3:I:817:GLY:O	3:I:821:GLN:HG3	2.06	0.56
3:L:545:ARG:NH2	3:L:593:GLN:OE1	2.38	0.56
3:M:819:LEU:CD2	3:M:831:LEU:HD11	2.35	0.56
3:O:545:ARG:NH2	3:O:593:GLN:OE1	2.38	0.56
3:P:941:ARG:HD2	3:P:944:PHE:O	2.06	0.56
1:B:154:THR:CG2	1:B:155:LYS:N	2.69	0.56
1:B:243:LEU:HG	1:B:403:TYR:HE2	1.71	0.56
1:B:279:GLU:O	1:B:280:GLY:O	2.24	0.56
1:D:113:LEU:O	1:D:114:ASP:C	2.47	0.56
1:D:154:THR:CG2	1:D:155:LYS:N	2.69	0.56
3:J:639:ASP:OD1	3:J:928:HIS:HD2	1.89	0.56
3:L:819:LEU:CD2	3:L:831:LEU:HD11	2.35	0.56
3:M:817:GLY:O	3:M:821:GLN:HG3	2.06	0.56
3:N:75:THR:HG23	3:N:76:ALA:H	1.71	0.56
1:B:429:ASP:C	1:B:429:ASP:OD1	2.49	0.56
1:B:520:VAL:HG23	1:B:521:PRO:HD2	1.87	0.56
1:C:113:LEU:O	1:C:114:ASP:C	2.47	0.56
1:C:175:TYR:HD1	1:C:175:TYR:H	1.52	0.56
1:C:520:VAL:HG23	1:C:521:PRO:HD2	1.87	0.56
1:D:132:PRO:HD2	1:D:553:TYR:CE2	2.41	0.56
1:D:429:ASP:C	1:D:429:ASP:OD1	2.49	0.56
1:E:279:GLU:O	1:E:280:GLY:O	2.24	0.56
2:U:15:TYR:HD2	2:U:16:PRO:CD	2.18	0.56
3:G:819:LEU:CD2	3:G:831:LEU:HD11	2.35	0.56
3:I:571:LEU:HD12	3:I:640:GLN:OE1	2.05	0.56
3:I:941:ARG:HD2	3:I:944:PHE:O	2.06	0.56
3:N:817:GLY:O	3:N:821:GLN:HG3	2.06	0.56
3:P:817:GLY:O	3:P:821:GLN:HG3	2.06	0.56
1:A:465:ALA:HB3	1:E:560:ILE:HD11	1.88	0.56
1:A:520:VAL:HG23	1:A:521:PRO:HD2	1.87	0.56
1:C:130:ASN:HA	1:C:519:ASN:ND2	2.21	0.56
1:C:429:ASP:C	1:C:429:ASP:OD1	2.49	0.56
1:E:132:PRO:HD2	1:E:553:TYR:CE2	2.41	0.56
2:S:15:TYR:HD2	2:S:16:PRO:CD	2.18	0.56
3:G:941:ARG:HD2	3:G:944:PHE:O	2.06	0.56
3:I:639:ASP:OD1	3:I:928:HIS:HD2	1.89	0.56
3:L:566:PHE:HE2	3:L:925:VAL:HG23	1.70	0.56
3:M:75:THR:HG23	3:M:76:ALA:H	1.71	0.56
3:N:832:ALA:HB1	3:N:833:PRO:HD2	1.88	0.56
1:A:132:PRO:HD2	1:A:553:TYR:CE2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:431:THR:O	1:A:432:CYS:HB2	2.05	0.55
1:A:476:TYR:HH	1:A:478:ASP:CG	2.13	0.55
1:A:486:ILE:HG23	1:B:482:TYR:CE1	2.40	0.55
1:B:378:VAL:C	1:B:380:LYS:N	2.62	0.55
1:C:69:VAL:CG2	1:C:561:VAL:HB	2.36	0.55
1:D:431:THR:O	1:D:432:CYS:HB2	2.05	0.55
1:E:69:VAL:CG2	1:E:561:VAL:HB	2.36	0.55
3:F:578:TYR:HD2	3:F:935:ILE:HD11	1.70	0.55
3:J:941:ARG:HD2	3:J:944:PHE:O	2.06	0.55
3:N:302:MET:CE	3:N:304:THR:H	2.20	0.55
3:N:578:TYR:HD2	3:N:935:ILE:HD11	1.70	0.55
3:O:75:THR:HG23	3:O:76:ALA:H	1.71	0.55
3:G:817:GLY:O	3:G:821:GLN:HG3	2.06	0.55
3:G:832:ALA:HB1	3:G:833:PRO:HD2	1.88	0.55
3:H:639:ASP:OD1	3:H:928:HIS:HD2	1.89	0.55
3:H:819:LEU:CD2	3:H:831:LEU:HD11	2.35	0.55
3:H:916:TYR:CE1	3:H:918:LEU:HD22	2.42	0.55
3:K:817:GLY:O	3:K:821:GLN:HG3	2.06	0.55
3:K:832:ALA:HB1	3:K:833:PRO:HD2	1.88	0.55
3:L:75:THR:HG23	3:L:76:ALA:H	1.71	0.55
3:L:941:ARG:HD2	3:L:944:PHE:O	2.06	0.55
3:M:941:ARG:HD2	3:M:944:PHE:O	2.06	0.55
3:O:916:TYR:CE1	3:O:918:LEU:HD22	2.41	0.55
3:P:302:MET:CE	3:P:304:THR:H	2.19	0.55
3:Q:916:TYR:CE1	3:Q:918:LEU:HD22	2.42	0.55
1:A:243:LEU:HG	1:A:403:TYR:HE2	1.71	0.55
1:A:279:GLU:O	1:A:280:GLY:O	2.24	0.55
1:A:429:ASP:C	1:A:429:ASP:OD1	2.49	0.55
1:B:65:ASP:O	1:B:66:THR:HB	2.06	0.55
1:C:88:HIS:ND1	1:C:555:TYR:O	2.38	0.55
1:C:150:SER:HB3	1:C:199:ASN:HD22	1.71	0.55
1:C:154:THR:CG2	1:C:155:LYS:N	2.69	0.55
1:C:558:LEU:C	1:C:558:LEU:HD12	2.30	0.55
1:D:67:THR:HG21	1:E:449:VAL:CG2	2.37	0.55
1:D:235:ALA:C	1:D:236:PHE:HD1	2.15	0.55
1:E:67:THR:OG1	1:E:68:ARG:N	2.39	0.55
3:G:916:TYR:CE1	3:G:918:LEU:HD22	2.42	0.55
3:K:566:PHE:HE2	3:K:925:VAL:HG23	1.70	0.55
3:M:639:ASP:OD1	3:M:928:HIS:HD2	1.89	0.55
1:B:132:PRO:HD2	1:B:553:TYR:CE2	2.41	0.55
1:B:403:TYR:HD1	1:B:504:ILE:HG12	1.69	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:446:GLN:O	1:C:448:PRO:HD3	2.07	0.55
1:E:431:THR:O	1:E:432:CYS:HB2	2.05	0.55
3:J:362:ASP:CB	3:J:941:ARG:HH22	2.15	0.55
3:K:941:ARG:HD2	3:K:944:PHE:O	2.06	0.55
3:L:916:TYR:CE1	3:L:918:LEU:HD22	2.41	0.55
3:M:302:MET:CE	3:M:304:THR:H	2.19	0.55
3:M:832:ALA:HB1	3:M:833:PRO:HD2	1.88	0.55
3:P:916:TYR:CE1	3:P:918:LEU:HD22	2.42	0.55
1:A:69:VAL:CG2	1:A:561:VAL:HB	2.36	0.55
1:A:235:ALA:C	1:A:236:PHE:HD1	2.15	0.55
1:A:463:VAL:HB	1:A:529:LEU:HD13	1.88	0.55
1:B:86:ASN:HB3	1:B:90:ASN:O	2.06	0.55
1:B:130:ASN:HA	1:B:519:ASN:ND2	2.21	0.55
1:B:150:SER:HB3	1:B:199:ASN:HD22	1.71	0.55
1:B:235:ALA:C	1:B:236:PHE:HD1	2.15	0.55
1:B:431:THR:O	1:B:432:CYS:HB2	2.05	0.55
1:C:132:PRO:HD2	1:C:553:TYR:CE2	2.41	0.55
1:C:235:ALA:C	1:C:236:PHE:HD1	2.15	0.55
1:D:69:VAL:CG2	1:D:561:VAL:HB	2.36	0.55
1:D:463:VAL:HB	1:D:529:LEU:HD13	1.87	0.55
1:E:446:GLN:O	1:E:448:PRO:HD3	2.07	0.55
1:E:463:VAL:HB	1:E:529:LEU:HD13	1.87	0.55
3:F:941:ARG:HD2	3:F:944:PHE:O	2.06	0.55
3:G:566:PHE:HE2	3:G:925:VAL:HG23	1.70	0.55
3:H:817:GLY:O	3:H:821:GLN:HG3	2.06	0.55
3:I:302:MET:CE	3:I:304:THR:H	2.20	0.55
3:K:57:THR:HG22	3:K:59:ARG:CD	2.37	0.55
3:K:578:TYR:HD2	3:K:935:ILE:HD11	1.70	0.55
3:O:578:TYR:HD2	3:O:935:ILE:HD11	1.70	0.55
3:Q:302:MET:CE	3:Q:304:THR:H	2.20	0.55
1:B:69:VAL:CG2	1:B:561:VAL:HB	2.36	0.55
1:C:243:LEU:HG	1:C:403:TYR:HE2	1.71	0.55
1:D:130:ASN:HA	1:D:519:ASN:ND2	2.21	0.55
1:D:243:LEU:HG	1:D:403:TYR:HE2	1.71	0.55
1:D:446:GLN:O	1:D:448:PRO:HD3	2.07	0.55
3:L:57:THR:HG22	3:L:59:ARG:CD	2.37	0.55
3:N:941:ARG:HD2	3:N:944:PHE:O	2.06	0.55
3:O:75:THR:O	3:O:586:LYS:NZ	2.30	0.55
3:P:75:THR:HG23	3:P:76:ALA:H	1.71	0.55
1:B:558:LEU:HD21	1:C:436:GLN:HG2	1.89	0.55
1:D:67:THR:OG1	1:D:68:ARG:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:279:GLU:O	1:D:280:GLY:O	2.24	0.55
1:E:235:ALA:C	1:E:236:PHE:HD1	2.15	0.55
1:E:429:ASP:C	1:E:429:ASP:OD1	2.49	0.55
3:F:916:TYR:CE1	3:F:918:LEU:HD22	2.41	0.55
3:G:499:THR:HG23	3:G:501:ASP:H	1.72	0.55
3:J:75:THR:HG23	3:J:76:ALA:H	1.71	0.55
3:J:916:TYR:CE1	3:J:918:LEU:HD22	2.42	0.55
3:K:302:MET:CE	3:K:304:THR:H	2.19	0.55
3:K:362:ASP:CB	3:K:941:ARG:HH22	2.15	0.55
3:N:567:ALA:HB2	3:N:925:VAL:HG21	1.89	0.55
3:O:57:THR:HG22	3:O:59:ARG:CD	2.37	0.55
3:Q:567:ALA:HB2	3:Q:925:VAL:HG21	1.89	0.55
1:E:150:SER:HB3	1:E:199:ASN:HD22	1.71	0.55
1:E:243:LEU:HG	1:E:403:TYR:HE2	1.71	0.55
3:H:302:MET:CE	3:H:304:THR:H	2.19	0.55
3:H:941:ARG:HD2	3:H:944:PHE:O	2.06	0.55
3:K:639:ASP:OD1	3:K:928:HIS:HD2	1.89	0.55
3:O:499:THR:HG23	3:O:501:ASP:H	1.72	0.55
3:O:832:ALA:HB1	3:O:833:PRO:HD2	1.89	0.55
1:A:154:THR:CG2	1:A:155:LYS:N	2.69	0.55
1:A:197:ARG:HG3	1:A:198:GLN:HG3	1.88	0.55
1:B:446:GLN:O	1:B:448:PRO:HD3	2.07	0.55
1:D:150:SER:HB3	1:D:199:ASN:HD22	1.71	0.55
1:D:406:TRP:NE1	1:D:419:ILE:HG21	2.22	0.55
3:J:832:ALA:HB1	3:J:833:PRO:HD2	1.88	0.55
3:N:916:TYR:CE1	3:N:918:LEU:HD22	2.42	0.55
3:Q:75:THR:HG23	3:Q:76:ALA:H	1.71	0.55
1:A:88:HIS:ND1	1:A:555:TYR:O	2.38	0.55
1:A:446:GLN:O	1:A:448:PRO:HD3	2.07	0.55
1:B:486:ILE:CG2	1:C:482:TYR:CD1	2.90	0.55
1:B:487:ARG:NE	1:C:234:GLU:OE2	2.38	0.55
1:C:86:ASN:HB3	1:C:90:ASN:O	2.06	0.55
1:D:197:ARG:HG3	1:D:198:GLN:HG3	1.89	0.55
1:E:122:ASP:OD1	1:E:528:THR:CG2	2.55	0.55
3:F:73:GLU:OE2	3:L:68:ILE:CB	2.55	0.55
3:H:578:TYR:HD2	3:H:935:ILE:HD11	1.70	0.55
3:K:916:TYR:CE1	3:K:918:LEU:HD22	2.41	0.55
3:O:202:GLU:OE1	3:P:820:HIS:HD2	1.90	0.55
3:O:302:MET:CE	3:O:304:THR:H	2.20	0.55
3:P:499:THR:HG23	3:P:501:ASP:H	1.72	0.55
3:Q:57:THR:HG22	3:Q:59:ARG:CD	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:130:ASN:C	1:A:130:ASN:HD22	2.14	0.54
1:B:377:PRO:O	1:B:379:ILE:N	2.41	0.54
1:C:67:THR:OG1	1:C:68:ARG:N	2.39	0.54
1:C:544:THR:CG2	1:C:549:ARG:N	2.71	0.54
1:E:65:ASP:O	1:E:66:THR:HB	2.06	0.54
1:E:151:ARG:HB3	1:E:201:VAL:H	1.71	0.54
3:I:566:PHE:HE2	3:I:925:VAL:HG23	1.70	0.54
3:L:832:ALA:HB1	3:L:833:PRO:HD2	1.89	0.54
3:N:75:THR:O	3:N:586:LYS:NZ	2.30	0.54
3:P:57:THR:HG22	3:P:59:ARG:CD	2.37	0.54
1:A:228:PRO:HG3	2:W:15:TYR:CE1	2.43	0.54
1:A:377:PRO:O	1:A:379:ILE:N	2.40	0.54
1:B:96:ILE:O	1:C:450:THR:HB	2.07	0.54
1:B:544:THR:CG2	1:B:549:ARG:N	2.70	0.54
1:E:544:THR:CG2	1:E:549:ARG:N	2.70	0.54
3:F:202:GLU:OE1	3:G:820:HIS:HD2	1.90	0.54
3:F:832:ALA:HB1	3:F:833:PRO:HD2	1.89	0.54
3:G:202:GLU:OE1	3:H:820:HIS:HD2	1.90	0.54
3:H:567:ALA:HB2	3:H:925:VAL:HG21	1.89	0.54
3:I:75:THR:HG23	3:I:76:ALA:H	1.71	0.54
3:I:202:GLU:OE1	3:J:820:HIS:HD2	1.90	0.54
3:I:499:THR:HG23	3:I:501:ASP:H	1.72	0.54
3:J:499:THR:HG23	3:J:501:ASP:H	1.72	0.54
3:K:75:THR:HG23	3:K:76:ALA:H	1.71	0.54
3:P:202:GLU:OE1	3:Q:820:HIS:HD2	1.91	0.54
3:P:823:ASN:O	3:P:824:ASN:HB2	2.08	0.54
3:Q:823:ASN:O	3:Q:824:ASN:HB2	2.07	0.54
1:A:122:ASP:OD1	1:A:528:THR:CG2	2.56	0.54
1:C:279:GLU:O	1:C:280:GLY:O	2.24	0.54
1:C:497:ASN:O	1:C:500:PRO:HD3	2.08	0.54
3:F:820:HIS:HD2	3:H:202:GLU:OE1	1.91	0.54
3:G:302:MET:CE	3:G:304:THR:H	2.19	0.54
3:H:832:ALA:HB1	3:H:833:PRO:HD2	1.88	0.54
3:I:567:ALA:HB2	3:I:925:VAL:HG21	1.89	0.54
3:I:820:HIS:HD2	3:K:202:GLU:OE1	1.91	0.54
3:L:202:GLU:OE1	3:M:820:HIS:HD2	1.90	0.54
3:Q:566:PHE:HE2	3:Q:925:VAL:HG23	1.70	0.54
1:B:130:ASN:HD22	1:B:130:ASN:C	2.14	0.54
1:B:214:ASN:O	1:B:216:ARG:N	2.41	0.54
1:C:130:ASN:C	1:C:130:ASN:HD22	2.14	0.54
1:C:377:PRO:O	1:C:379:ILE:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:406:TRP:NE1	1:C:419:ILE:HG21	2.22	0.54
1:D:171:PRO:HG2	1:D:174:ASN:ND2	2.23	0.54
3:F:302:MET:CE	3:F:304:THR:H	2.20	0.54
3:F:499:THR:HG23	3:F:501:ASP:H	1.72	0.54
3:F:567:ALA:HB2	3:F:925:VAL:HG21	1.89	0.54
3:G:57:THR:HG22	3:G:59:ARG:CD	2.37	0.54
3:H:823:ASN:O	3:H:824:ASN:HB2	2.07	0.54
3:J:302:MET:CE	3:J:304:THR:H	2.19	0.54
3:L:302:MET:CE	3:L:304:THR:H	2.20	0.54
3:O:823:ASN:O	3:O:824:ASN:HB2	2.08	0.54
3:Q:941:ARG:HD2	3:Q:944:PHE:O	2.06	0.54
1:A:406:TRP:NE1	1:A:419:ILE:HG21	2.22	0.54
1:A:560:ILE:HD11	1:B:465:ALA:HB3	1.90	0.54
1:C:88:HIS:CD2	1:D:267:PHE:CZ	2.96	0.54
1:D:544:THR:CG2	1:D:549:ARG:N	2.71	0.54
1:D:565:VAL:HG12	1:D:566:LEU:N	2.23	0.54
1:E:130:ASN:C	1:E:130:ASN:HD22	2.14	0.54
1:E:406:TRP:NE1	1:E:419:ILE:HG21	2.22	0.54
3:H:57:THR:HG22	3:H:59:ARG:CD	2.37	0.54
3:H:601:ARG:NH2	3:H:695:ASP:O	2.38	0.54
3:I:916:TYR:CE1	3:I:918:LEU:HD22	2.41	0.54
3:L:75:THR:O	3:L:586:LYS:NZ	2.30	0.54
3:L:567:ALA:HB2	3:L:925:VAL:HG21	1.89	0.54
3:M:202:GLU:OE1	3:N:820:HIS:HD2	1.90	0.54
3:N:57:THR:HG22	3:N:59:ARG:CD	2.37	0.54
1:A:150:SER:HB3	1:A:199:ASN:HD22	1.71	0.54
1:B:122:ASP:OD1	1:B:528:THR:CG2	2.55	0.54
1:B:497:ASN:O	1:B:500:PRO:HD3	2.08	0.54
1:C:52:ARG:N	1:C:116:ARG:NH1	2.56	0.54
1:D:122:ASP:OD1	1:D:528:THR:CG2	2.56	0.54
1:D:430:VAL:CG1	1:D:515:THR:HB	2.38	0.54
1:E:171:PRO:HG2	1:E:174:ASN:ND2	2.23	0.54
3:I:75:THR:O	3:I:586:LYS:NZ	2.30	0.54
3:I:823:ASN:O	3:I:824:ASN:HB2	2.08	0.54
3:N:362:ASP:CB	3:N:941:ARG:HH22	2.15	0.54
3:Q:526:ASP:OD1	3:Q:862:LYS:NZ	2.32	0.54
1:B:197:ARG:HG3	1:B:198:GLN:HG3	1.89	0.54
1:C:65:ASP:O	1:C:66:THR:HB	2.06	0.54
1:D:377:PRO:O	1:D:379:ILE:N	2.40	0.54
3:J:57:THR:HG22	3:J:59:ARG:CD	2.37	0.54
3:M:57:THR:HG22	3:M:59:ARG:CD	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:601:ARG:NH2	3:M:695:ASP:O	2.38	0.54
3:M:823:ASN:O	3:M:824:ASN:HB2	2.08	0.54
1:D:98:ASN:C	1:D:98:ASN:ND2	2.66	0.54
3:M:916:TYR:CE1	3:M:918:LEU:HD22	2.42	0.54
3:P:567:ALA:HB2	3:P:925:VAL:HG21	1.89	0.54
1:C:430:VAL:CG1	1:C:515:THR:HB	2.38	0.54
1:D:52:ARG:N	1:D:116:ARG:NH1	2.56	0.54
1:D:406:TRP:HE1	1:D:419:ILE:HG21	1.73	0.54
1:E:391:TYR:O	1:E:392:ASN:C	2.51	0.54
1:E:430:VAL:CG1	1:E:515:THR:HB	2.38	0.54
3:H:675:ARG:HD2	3:H:883:ALA:O	2.08	0.54
3:J:567:ALA:HB2	3:J:925:VAL:HG21	1.89	0.54
3:K:567:ALA:HB2	3:K:925:VAL:HG21	1.89	0.54
3:N:675:ARG:HD2	3:N:883:ALA:O	2.08	0.54
3:P:675:ARG:HD2	3:P:883:ALA:O	2.08	0.54
3:Q:499:THR:HG23	3:Q:501:ASP:H	1.72	0.54
3:Q:675:ARG:HD2	3:Q:883:ALA:O	2.08	0.54
1:A:52:ARG:N	1:A:116:ARG:NH1	2.56	0.54
1:A:391:TYR:O	1:A:392:ASN:C	2.51	0.54
1:A:497:ASN:O	1:A:500:PRO:HD3	2.08	0.54
1:B:52:ARG:N	1:B:116:ARG:NH1	2.56	0.54
1:B:565:VAL:HG12	1:B:566:LEU:N	2.23	0.54
1:C:223:THR:HG21	1:C:227:MET:SD	2.48	0.54
1:C:565:VAL:HG12	1:C:566:LEU:N	2.23	0.54
1:D:214:ASN:O	1:D:216:ARG:N	2.41	0.54
3:F:57:THR:HG22	3:F:59:ARG:CD	2.37	0.54
3:I:57:THR:HG22	3:I:59:ARG:CD	2.37	0.54
3:I:832:ALA:HB1	3:I:833:PRO:HD2	1.89	0.54
3:J:823:ASN:O	3:J:824:ASN:HB2	2.08	0.54
3:K:823:ASN:O	3:K:824:ASN:HB2	2.07	0.54
3:L:499:THR:HG23	3:L:501:ASP:H	1.72	0.54
3:N:823:ASN:O	3:N:824:ASN:HB2	2.07	0.54
1:A:444:MET:HB2	1:A:539:GLN:OE1	2.08	0.53
1:B:406:TRP:NE1	1:B:419:ILE:HG21	2.22	0.53
1:B:430:VAL:CG1	1:B:515:THR:HB	2.38	0.53
1:B:490:THR:CG2	1:C:481:VAL:CG1	2.86	0.53
1:C:214:ASN:O	1:C:216:ARG:N	2.41	0.53
1:C:490:THR:HG22	1:D:481:VAL:HG12	1.84	0.53
3:F:726:SER:CB	3:I:667:PRO:HG2	2.38	0.53
3:G:746:ARG:NH1	3:G:750:GLY:O	2.41	0.53
3:H:499:THR:HG23	3:H:501:ASP:H	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:675:ARG:HD2	3:I:883:ALA:O	2.08	0.53
3:I:746:ARG:NH1	3:I:750:GLY:O	2.41	0.53
3:K:319:MET:HG3	3:K:320:PRO:HD2	1.90	0.53
3:M:499:THR:HG23	3:M:501:ASP:H	1.72	0.53
3:M:675:ARG:HD2	3:M:883:ALA:O	2.08	0.53
1:C:171:PRO:HG2	1:C:174:ASN:ND2	2.23	0.53
1:C:391:TYR:O	1:C:392:ASN:C	2.51	0.53
1:D:223:THR:HG21	1:D:227:MET:SD	2.49	0.53
1:E:52:ARG:N	1:E:116:ARG:NH1	2.56	0.53
3:G:675:ARG:HD2	3:G:883:ALA:O	2.08	0.53
3:I:74:ASP:OD1	3:I:586:LYS:NZ	2.30	0.53
3:J:746:ARG:NH1	3:J:750:GLY:O	2.41	0.53
3:L:319:MET:HG3	3:L:320:PRO:HD2	1.91	0.53
3:L:675:ARG:HD2	3:L:883:ALA:O	2.08	0.53
3:P:832:ALA:HB1	3:P:833:PRO:HD2	1.88	0.53
3:Q:832:ALA:HB1	3:Q:833:PRO:HD2	1.88	0.53
1:A:171:PRO:HG2	1:A:174:ASN:ND2	2.23	0.53
1:B:243:LEU:HG	1:B:403:TYR:CE2	2.43	0.53
1:C:249:ASP:C	1:C:249:ASP:OD1	2.52	0.53
1:C:444:MET:HB2	1:C:539:GLN:OE1	2.08	0.53
1:D:65:ASP:O	1:D:66:THR:HB	2.06	0.53
1:D:177:GLU:CG	1:D:178:THR:N	2.71	0.53
1:D:497:ASN:O	1:D:500:PRO:HD3	2.08	0.53
3:F:823:ASN:O	3:F:824:ASN:HB2	2.08	0.53
3:L:820:HIS:HD2	3:N:202:GLU:OE1	1.91	0.53
3:M:567:ALA:HB2	3:M:925:VAL:HG21	1.89	0.53
3:O:566:PHE:HE2	3:O:925:VAL:HG23	1.70	0.53
3:O:820:HIS:HD2	3:Q:202:GLU:OE1	1.91	0.53
1:A:488:GLN:HE22	1:A:497:ASN:ND2	2.07	0.53
1:A:544:THR:CG2	1:A:549:ARG:N	2.71	0.53
1:B:214:ASN:ND2	1:B:216:ARG:HB3	2.24	0.53
1:C:177:GLU:CG	1:C:178:THR:N	2.71	0.53
1:D:243:LEU:HG	1:D:403:TYR:CE2	2.44	0.53
1:D:391:TYR:O	1:D:392:ASN:C	2.51	0.53
1:E:377:PRO:O	1:E:379:ILE:N	2.41	0.53
1:E:497:ASN:O	1:E:500:PRO:HD3	2.08	0.53
3:L:578:TYR:HD2	3:L:935:ILE:HD11	1.70	0.53
3:P:319:MET:HG3	3:P:320:PRO:HD2	1.90	0.53
3:P:639:ASP:OD1	3:P:928:HIS:HD2	1.89	0.53
3:P:746:ARG:NH1	3:P:750:GLY:O	2.41	0.53
1:B:98:ASN:C	1:B:98:ASN:ND2	2.66	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:406:TRP:HE1	1:B:419:ILE:HG21	1.73	0.53
1:C:122:ASP:OD1	1:C:528:THR:CG2	2.56	0.53
1:C:197:ARG:HG3	1:C:198:GLN:HG3	1.89	0.53
1:C:544:THR:HG22	1:C:545:ASP:H	1.74	0.53
1:D:479:GLN:O	1:D:483:SER:HB3	2.07	0.53
1:D:488:GLN:HE22	1:D:497:ASN:ND2	2.07	0.53
1:E:177:GLU:CG	1:E:178:THR:N	2.71	0.53
1:E:197:ARG:HG3	1:E:198:GLN:HG3	1.88	0.53
1:E:565:VAL:HG12	1:E:566:LEU:N	2.23	0.53
3:K:675:ARG:HD2	3:K:883:ALA:O	2.08	0.53
3:L:601:ARG:NH2	3:L:695:ASP:O	2.38	0.53
1:A:177:GLU:CG	1:A:178:THR:N	2.71	0.53
1:B:223:THR:HG21	1:B:227:MET:SD	2.49	0.53
1:D:544:THR:HG22	1:D:545:ASP:H	1.74	0.53
1:E:151:ARG:HB3	1:E:201:VAL:N	2.24	0.53
3:K:746:ARG:NH1	3:K:750:GLY:O	2.41	0.53
3:N:499:THR:HG23	3:N:501:ASP:H	1.72	0.53
1:A:67:THR:HG21	1:B:449:VAL:CG2	2.37	0.53
1:B:444:MET:HB2	1:B:539:GLN:OE1	2.08	0.53
1:C:487:ARG:NH1	1:C:507:ARG:HH22	2.07	0.53
1:D:57:TYR:OH	1:D:109:GLN:NE2	2.42	0.53
1:D:74:ASN:O	1:D:75:LYS:C	2.52	0.53
1:D:249:ASP:C	1:D:249:ASP:OD1	2.51	0.53
1:E:444:MET:HB2	1:E:539:GLN:OE1	2.08	0.53
3:M:746:ARG:NH1	3:M:750:GLY:O	2.41	0.53
3:O:319:MET:HG3	3:O:320:PRO:HD2	1.90	0.53
1:A:223:THR:HG21	1:A:227:MET:SD	2.49	0.53
1:A:243:LEU:HG	1:A:403:TYR:CE2	2.43	0.53
1:A:565:VAL:HG12	1:A:566:LEU:N	2.23	0.53
1:D:151:ARG:HB3	1:D:201:VAL:N	2.24	0.53
1:E:487:ARG:NH1	1:E:507:ARG:HH22	2.07	0.53
3:G:567:ALA:HB2	3:G:925:VAL:HG21	1.89	0.53
3:J:202:GLU:OE1	3:K:820:HIS:HD2	1.90	0.53
3:K:74:ASP:OD1	3:K:586:LYS:NZ	2.30	0.53
3:L:746:ARG:NH1	3:L:750:GLY:O	2.41	0.53
3:M:319:MET:HG3	3:M:320:PRO:HD2	1.90	0.53
1:A:65:ASP:O	1:A:66:THR:HB	2.06	0.53
1:A:430:VAL:CG1	1:A:515:THR:HB	2.38	0.53
1:B:126:ILE:HG12	1:B:523:LEU:HD23	1.91	0.53
1:B:171:PRO:HG2	1:B:174:ASN:ND2	2.23	0.53
1:C:57:TYR:OH	1:C:109:GLN:NE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:488:GLN:HE22	1:C:497:ASN:ND2	2.07	0.53
1:D:214:ASN:ND2	1:D:216:ARG:HB3	2.24	0.53
1:E:74:ASN:O	1:E:75:LYS:C	2.52	0.53
1:E:403:TYR:HD1	1:E:504:ILE:HG12	1.68	0.53
3:H:526:ASP:OD1	3:H:862:LYS:NZ	2.32	0.53
3:H:746:ARG:NH1	3:H:750:GLY:O	2.41	0.53
3:N:319:MET:HG3	3:N:320:PRO:HD2	1.90	0.53
3:N:746:ARG:NH1	3:N:750:GLY:O	2.41	0.53
3:O:567:ALA:HB2	3:O:925:VAL:HG21	1.89	0.53
1:A:88:HIS:CD2	1:B:267:PHE:CZ	2.97	0.53
1:A:214:ASN:O	1:A:216:ARG:N	2.41	0.53
1:B:151:ARG:HB3	1:B:201:VAL:N	2.24	0.53
1:B:249:ASP:C	1:B:249:ASP:OD1	2.51	0.53
1:C:214:ASN:ND2	1:C:216:ARG:HB3	2.24	0.53
1:D:74:ASN:OD1	1:E:436:GLN:OE1	2.27	0.53
1:D:394:ILE:HA	1:D:402:GLN:HE21	1.74	0.53
1:E:214:ASN:O	1:E:216:ARG:N	2.41	0.53
1:E:488:GLN:HE22	1:E:497:ASN:ND2	2.07	0.53
3:I:924:VAL:HG12	3:I:925:VAL:N	2.24	0.53
3:P:578:TYR:HD2	3:P:935:ILE:HD11	1.70	0.53
3:Q:746:ARG:NH1	3:Q:750:GLY:O	2.41	0.53
1:A:74:ASN:O	1:A:75:LYS:C	2.52	0.52
1:A:249:ASP:C	1:A:249:ASP:OD1	2.51	0.52
1:B:64:PHE:CD1	1:C:118:HIS:NE2	2.76	0.52
1:D:444:MET:HB2	1:D:539:GLN:OE1	2.09	0.52
1:E:249:ASP:C	1:E:249:ASP:OD1	2.51	0.52
3:F:924:VAL:HG12	3:F:925:VAL:N	2.24	0.52
3:I:726:SER:CB	3:M:667:PRO:HG2	2.39	0.52
3:J:924:VAL:HG12	3:J:925:VAL:N	2.24	0.52
3:K:499:THR:HG23	3:K:501:ASP:H	1.72	0.52
3:L:835:MET:HA	3:M:412:TYR:OH	2.09	0.52
3:L:942:THR:HA	3:L:943:PRO:O	2.10	0.52
3:O:746:ARG:NH1	3:O:750:GLY:O	2.41	0.52
1:A:98:ASN:C	1:A:98:ASN:ND2	2.66	0.52
1:C:228:PRO:HG3	2:T:15:TYR:CE1	2.43	0.52
1:C:493:THR:HG23	2:U:15:TYR:CE1	2.44	0.52
3:F:222:VAL:HG22	3:F:223:LEU:N	2.24	0.52
3:F:675:ARG:HD2	3:F:883:ALA:O	2.08	0.52
3:J:675:ARG:HD2	3:J:883:ALA:O	2.08	0.52
3:K:414:PHE:HB3	3:K:415:PRO:HD2	1.92	0.52
3:O:924:VAL:HG12	3:O:925:VAL:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:319:MET:HG3	3:Q:320:PRO:HD2	1.90	0.52
1:A:126:ILE:HG12	1:A:523:LEU:HD23	1.91	0.52
1:B:177:GLU:CG	1:B:178:THR:N	2.71	0.52
1:B:487:ARG:NH1	1:B:507:ARG:HH22	2.07	0.52
1:C:243:LEU:HG	1:C:403:TYR:CE2	2.44	0.52
1:D:457:ILE:HA	1:D:460:PHE:CE2	2.45	0.52
1:D:493:THR:HG23	2:V:15:TYR:CE1	2.45	0.52
1:E:126:ILE:HG12	1:E:523:LEU:HD23	1.91	0.52
3:F:74:ASP:OD1	3:F:586:LYS:NZ	2.30	0.52
3:F:412:TYR:OH	3:H:835:MET:HA	2.10	0.52
3:F:746:ARG:NH1	3:F:750:GLY:O	2.41	0.52
3:H:942:THR:HA	3:H:943:PRO:O	2.10	0.52
3:J:319:MET:HG3	3:J:320:PRO:HD2	1.90	0.52
3:M:393:TYR:CD2	3:M:533:PRO:HB2	2.45	0.52
3:P:393:TYR:CD2	3:P:533:PRO:HB2	2.45	0.52
3:P:647:SER:HB3	3:P:921:VAL:O	2.10	0.52
3:P:835:MET:HA	3:Q:412:TYR:OH	2.10	0.52
1:A:88:HIS:HD2	1:B:267:PHE:CZ	2.28	0.52
1:A:529:LEU:HD21	1:E:68:ARG:NE	2.24	0.52
1:A:544:THR:HG22	1:A:545:ASP:H	1.74	0.52
1:D:457:ILE:HD12	1:D:458:SER:N	2.25	0.52
1:E:57:TYR:OH	1:E:109:GLN:NE2	2.42	0.52
3:F:341:THR:HG22	3:M:739:PRO:HG3	1.89	0.52
3:H:319:MET:HG3	3:H:320:PRO:HD2	1.90	0.52
3:H:393:TYR:CD2	3:H:533:PRO:HB2	2.45	0.52
3:I:362:ASP:CB	3:I:941:ARG:HH22	2.15	0.52
3:J:835:MET:HA	3:K:412:TYR:OH	2.10	0.52
3:L:823:ASN:O	3:L:824:ASN:HB2	2.08	0.52
3:Q:924:VAL:HG12	3:Q:925:VAL:N	2.24	0.52
1:B:57:TYR:OH	1:B:109:GLN:NE2	2.42	0.52
1:B:394:ILE:HA	1:B:402:GLN:HE21	1.74	0.52
1:B:476:TYR:CD1	1:B:513:ILE:HD11	2.45	0.52
1:C:231:TYR:HD1	1:C:503:GLN:HB3	1.75	0.52
1:D:126:ILE:HG12	1:D:523:LEU:HD23	1.91	0.52
1:D:487:ARG:NH1	1:D:507:ARG:HH22	2.07	0.52
1:E:98:ASN:C	1:E:98:ASN:ND2	2.66	0.52
1:E:457:ILE:HD12	1:E:458:SER:N	2.25	0.52
3:F:647:SER:HB3	3:F:921:VAL:O	2.10	0.52
3:I:835:MET:HA	3:J:412:TYR:OH	2.09	0.52
3:I:942:THR:HA	3:I:943:PRO:O	2.09	0.52
3:L:924:VAL:HG12	3:L:925:VAL:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:420:ARG:O	1:B:420:ARG:HG2	2.10	0.52
1:B:493:THR:HG23	2:T:15:TYR:CE1	2.45	0.52
1:C:102:SER:O	1:C:103:PRO:C	2.52	0.52
1:D:231:TYR:HD1	1:D:503:GLN:HB3	1.75	0.52
1:E:223:THR:HG21	1:E:227:MET:SD	2.49	0.52
1:E:544:THR:HG22	1:E:545:ASP:H	1.74	0.52
3:F:835:MET:HA	3:G:412:TYR:OH	2.09	0.52
3:G:319:MET:HG3	3:G:320:PRO:HD2	1.90	0.52
3:H:68:ILE:CB	3:I:73:GLU:OE2	2.58	0.52
3:O:222:VAL:HG22	3:O:223:LEU:N	2.25	0.52
3:O:675:ARG:HD2	3:O:883:ALA:O	2.08	0.52
1:A:57:TYR:OH	1:A:109:GLN:NE2	2.42	0.52
1:A:394:ILE:HA	1:A:402:GLN:HE21	1.74	0.52
1:B:231:TYR:HD1	1:B:503:GLN:HB3	1.75	0.52
1:B:457:ILE:HA	1:B:460:PHE:CE2	2.45	0.52
1:C:74:ASN:O	1:C:75:LYS:C	2.52	0.52
3:F:319:MET:HG3	3:F:320:PRO:HD2	1.90	0.52
3:F:601:ARG:NH2	3:F:695:ASP:O	2.38	0.52
3:I:393:TYR:CD2	3:I:533:PRO:HB2	2.45	0.52
3:J:647:SER:HB3	3:J:921:VAL:O	2.10	0.52
3:L:222:VAL:HG22	3:L:223:LEU:N	2.24	0.52
3:L:412:TYR:OH	3:N:835:MET:HA	2.10	0.52
3:L:647:SER:HB3	3:L:921:VAL:O	2.10	0.52
1:A:277:ASP:O	1:A:419:ILE:HD13	2.10	0.52
1:A:406:TRP:HE1	1:A:419:ILE:HG21	1.73	0.52
1:A:493:THR:HG23	2:S:15:TYR:CE1	2.44	0.52
1:C:151:ARG:HB3	1:C:201:VAL:N	2.24	0.52
1:D:513:ILE:N	1:D:513:ILE:HD12	2.25	0.52
3:G:823:ASN:O	3:G:824:ASN:HB2	2.08	0.52
3:G:835:MET:HA	3:H:412:TYR:OH	2.10	0.52
3:H:222:VAL:HG22	3:H:223:LEU:N	2.25	0.52
3:J:414:PHE:HB3	3:J:415:PRO:HD2	1.92	0.52
3:L:414:PHE:HB3	3:L:415:PRO:HD2	1.92	0.52
3:M:552:GLY:N	3:N:803:GLN:OE1	2.43	0.52
3:M:942:THR:HA	3:M:943:PRO:O	2.10	0.52
3:N:942:THR:HA	3:N:943:PRO:O	2.10	0.52
1:A:476:TYR:CD1	1:A:513:ILE:HD11	2.45	0.52
1:C:476:TYR:CD1	1:C:513:ILE:HD11	2.45	0.52
1:D:68:ARG:NE	1:E:529:LEU:HD21	2.25	0.52
1:E:457:ILE:HA	1:E:460:PHE:CE2	2.44	0.52
3:F:393:TYR:CD2	3:F:533:PRO:HB2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:414:PHE:HB3	3:F:415:PRO:HD2	1.92	0.52
3:G:647:SER:HB3	3:G:921:VAL:O	2.10	0.52
3:I:222:VAL:HG22	3:I:223:LEU:N	2.25	0.52
3:I:647:SER:HB3	3:I:921:VAL:O	2.10	0.52
1:A:486:ILE:HG23	1:B:482:TYR:HE1	1.75	0.52
1:B:391:TYR:O	1:B:392:ASN:C	2.51	0.52
1:B:476:TYR:HH	1:B:478:ASP:CG	2.18	0.52
1:B:488:GLN:HE22	1:B:497:ASN:ND2	2.07	0.52
1:C:457:ILE:HD12	1:C:458:SER:N	2.25	0.52
1:C:457:ILE:HA	1:C:460:PHE:CE2	2.45	0.52
1:C:553:TYR:CZ	1:D:424:LEU:HD21	2.45	0.52
1:E:243:LEU:HG	1:E:403:TYR:CE2	2.44	0.52
3:K:942:THR:HA	3:K:943:PRO:O	2.10	0.52
3:M:222:VAL:HG22	3:M:223:LEU:N	2.25	0.52
3:N:601:ARG:NH2	3:N:695:ASP:O	2.38	0.52
3:O:526:ASP:OD1	3:O:862:LYS:NZ	2.32	0.52
3:P:552:GLY:N	3:Q:803:GLN:OE1	2.43	0.52
1:B:74:ASN:O	1:B:75:LYS:C	2.52	0.51
1:B:292:TYR:HD1	1:B:378:VAL:HG12	1.75	0.51
1:C:513:ILE:N	1:C:513:ILE:HD12	2.25	0.51
1:E:178:THR:OG1	1:E:511:PRO:HD2	2.10	0.51
1:E:406:TRP:HE1	1:E:419:ILE:HG21	1.73	0.51
3:F:325:TYR:O	3:F:594:SER:HA	2.10	0.51
3:K:647:SER:HB3	3:K:921:VAL:O	2.10	0.51
3:O:942:THR:HA	3:O:943:PRO:O	2.10	0.51
3:P:362:ASP:CB	3:P:941:ARG:HH22	2.15	0.51
3:Q:414:PHE:HB3	3:Q:415:PRO:HD2	1.92	0.51
1:A:178:THR:OG1	1:A:511:PRO:HD2	2.10	0.51
1:C:277:ASP:O	1:C:419:ILE:HD13	2.10	0.51
1:E:154:THR:CG2	1:E:155:LYS:HG3	2.41	0.51
1:E:227:MET:HB2	1:E:228:PRO:HD3	1.92	0.51
1:E:493:THR:HG23	2:W:15:TYR:CE1	2.45	0.51
3:G:924:VAL:HG12	3:G:925:VAL:N	2.24	0.51
3:I:133:GLU:OE2	3:I:264:GLN:OE1	2.29	0.51
3:I:319:MET:HG3	3:I:320:PRO:HD2	1.91	0.51
3:J:218:ALA:HB3	3:J:283:VAL:CG2	2.37	0.51
3:J:393:TYR:CD2	3:J:533:PRO:HB2	2.45	0.51
3:K:325:TYR:O	3:K:594:SER:HA	2.10	0.51
3:L:73:GLU:CG	3:Q:68:ILE:CG2	2.57	0.51
3:L:325:TYR:O	3:L:594:SER:HA	2.10	0.51
3:M:414:PHE:HB3	3:M:415:PRO:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:924:VAL:HG12	3:M:925:VAL:N	2.24	0.51
3:N:414:PHE:HB3	3:N:415:PRO:HD2	1.92	0.51
3:N:924:VAL:HG12	3:N:925:VAL:N	2.24	0.51
3:Q:218:ALA:HB3	3:Q:283:VAL:CG2	2.37	0.51
3:Q:222:VAL:HG22	3:Q:223:LEU:N	2.25	0.51
1:A:85:GLN:HE21	3:P:692:SER:CB	2.23	0.51
1:A:231:TYR:HD1	1:A:503:GLN:HB3	1.75	0.51
1:A:389:ARG:HG2	1:A:389:ARG:NH1	2.26	0.51
1:D:227:MET:HB2	1:D:228:PRO:HD3	1.92	0.51
1:E:68:ARG:NH1	1:E:68:ARG:CG	2.67	0.51
1:E:214:ASN:ND2	1:E:216:ARG:HB3	2.24	0.51
1:E:277:ASP:O	1:E:419:ILE:HD13	2.10	0.51
3:J:133:GLU:OE2	3:J:264:GLN:OE1	2.29	0.51
3:J:325:TYR:O	3:J:594:SER:HA	2.10	0.51
3:L:803:GLN:OE1	3:N:552:GLY:N	2.43	0.51
3:Q:393:TYR:CD2	3:Q:533:PRO:HB2	2.45	0.51
1:A:151:ARG:HB3	1:A:201:VAL:N	2.24	0.51
1:A:450:THR:HG22	1:E:57:TYR:CD2	2.45	0.51
1:C:394:ILE:HA	1:C:402:GLN:HE21	1.74	0.51
1:D:403:TYR:HD1	1:D:504:ILE:HG12	1.69	0.51
1:E:132:PRO:HA	1:E:175:TYR:CZ	2.45	0.51
1:E:444:MET:CE	1:E:561:VAL:HG21	2.27	0.51
1:E:476:TYR:CD1	1:E:513:ILE:HD11	2.45	0.51
3:G:759:ASN:OD1	3:G:862:LYS:HA	2.11	0.51
3:H:924:VAL:HG12	3:H:925:VAL:N	2.24	0.51
3:I:445:PHE:CE2	3:J:165:THR:HG22	2.46	0.51
3:J:759:ASN:OD1	3:J:862:LYS:HA	2.11	0.51
3:K:393:TYR:CD2	3:K:533:PRO:HB2	2.45	0.51
3:K:759:ASN:OD1	3:K:862:LYS:HA	2.11	0.51
3:M:647:SER:HB3	3:M:921:VAL:O	2.10	0.51
3:N:133:GLU:OE2	3:N:264:GLN:OE1	2.29	0.51
3:O:393:TYR:CD2	3:O:533:PRO:HB2	2.45	0.51
3:Q:325:TYR:O	3:Q:594:SER:HA	2.10	0.51
3:Q:759:ASN:OD1	3:Q:862:LYS:HA	2.11	0.51
1:B:513:ILE:HD12	1:B:513:ILE:N	2.25	0.51
1:B:544:THR:HG22	1:B:545:ASP:H	1.74	0.51
1:C:126:ILE:HG12	1:C:523:LEU:HD23	1.91	0.51
1:C:178:THR:OG1	1:C:511:PRO:HD2	2.10	0.51
1:D:178:THR:OG1	1:D:511:PRO:HD2	2.10	0.51
1:E:513:ILE:HD12	1:E:513:ILE:N	2.25	0.51
3:G:552:GLY:N	3:H:803:GLN:OE1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:414:PHE:HB3	3:I:415:PRO:HD2	1.92	0.51
3:O:412:TYR:OH	3:Q:835:MET:HA	2.10	0.51
3:P:414:PHE:HB3	3:P:415:PRO:HD2	1.92	0.51
1:B:555:TYR:HE2	1:C:434:SER:N	2.09	0.51
1:C:171:PRO:CA	1:D:411:ASN:HD22	2.24	0.51
1:C:237:HIS:CD2	1:C:425:LEU:HD11	2.46	0.51
1:D:277:ASP:O	1:D:419:ILE:HD13	2.10	0.51
1:D:444:MET:CE	1:D:561:VAL:HG21	2.28	0.51
3:F:133:GLU:OE2	3:F:264:GLN:OE1	2.29	0.51
3:F:942:THR:HA	3:F:943:PRO:O	2.10	0.51
3:G:325:TYR:O	3:G:594:SER:HA	2.11	0.51
3:M:835:MET:HA	3:N:412:TYR:OH	2.10	0.51
3:N:393:TYR:CD2	3:N:533:PRO:HB2	2.45	0.51
3:O:647:SER:HB3	3:O:921:VAL:O	2.10	0.51
3:O:759:ASN:OD1	3:O:862:LYS:HA	2.11	0.51
3:P:133:GLU:OE2	3:P:264:GLN:OE1	2.29	0.51
1:B:102:SER:O	1:B:103:PRO:C	2.53	0.51
1:B:227:MET:HB2	1:B:228:PRO:HD3	1.92	0.51
1:B:277:ASP:O	1:B:419:ILE:HD13	2.10	0.51
1:C:406:TRP:HE1	1:C:419:ILE:HG21	1.73	0.51
1:D:63:LEU:HD12	1:E:449:VAL:HA	1.93	0.51
1:D:154:THR:CG2	1:D:155:LYS:HG3	2.41	0.51
1:D:424:LEU:HD23	1:D:425:LEU:H	1.76	0.51
1:E:424:LEU:HD23	1:E:425:LEU:H	1.76	0.51
3:G:393:TYR:CD2	3:G:533:PRO:HB2	2.45	0.51
3:N:325:TYR:O	3:N:594:SER:HA	2.10	0.51
3:O:325:TYR:O	3:O:594:SER:HA	2.10	0.51
3:O:445:PHE:CE2	3:P:165:THR:HG22	2.46	0.51
3:Q:942:THR:HA	3:Q:943:PRO:O	2.10	0.51
1:A:102:SER:O	1:A:103:PRO:C	2.52	0.51
1:A:457:ILE:HA	1:A:460:PHE:CE2	2.44	0.51
1:A:487:ARG:HH21	1:B:234:GLU:CD	2.18	0.51
1:D:420:ARG:HG2	1:D:420:ARG:O	2.10	0.51
1:E:228:PRO:HG3	2:V:15:TYR:CE1	2.45	0.51
3:G:445:PHE:CE2	3:H:165:THR:HG22	2.46	0.51
3:I:325:TYR:O	3:I:594:SER:HA	2.10	0.51
3:N:222:VAL:HG22	3:N:223:LEU:N	2.25	0.51
3:O:165:THR:HG22	3:Q:445:PHE:CE2	2.46	0.51
3:O:414:PHE:HB3	3:O:415:PRO:HD2	1.92	0.51
3:O:835:MET:HA	3:P:412:TYR:OH	2.09	0.51
1:B:178:THR:OG1	1:B:511:PRO:HD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:237:HIS:CD2	1:B:425:LEU:HD11	2.46	0.51
1:B:378:VAL:C	1:B:380:LYS:H	2.19	0.51
1:C:74:ASN:OD1	1:D:436:GLN:OE1	2.28	0.51
1:E:420:ARG:O	1:E:420:ARG:HG2	2.10	0.51
3:G:222:VAL:HG22	3:G:223:LEU:N	2.25	0.51
3:I:412:TYR:OH	3:K:835:MET:HA	2.10	0.51
3:K:222:VAL:HG22	3:K:223:LEU:N	2.25	0.51
3:L:133:GLU:OE2	3:L:264:GLN:OE1	2.29	0.51
3:Q:773:TYR:O	3:Q:774:ASN:HB2	2.11	0.51
1:A:513:ILE:N	1:A:513:ILE:HD12	2.25	0.51
1:C:292:TYR:HD1	1:C:378:VAL:HG12	1.76	0.51
1:D:102:SER:O	1:D:103:PRO:C	2.52	0.51
1:D:389:ARG:HG2	1:D:389:ARG:NH1	2.26	0.51
1:E:394:ILE:HA	1:E:402:GLN:HE21	1.74	0.51
3:G:942:THR:HA	3:G:943:PRO:O	2.10	0.51
3:H:325:TYR:O	3:H:594:SER:HA	2.10	0.51
3:H:647:SER:HB3	3:H:921:VAL:O	2.10	0.51
3:I:218:ALA:HB3	3:I:283:VAL:CG2	2.37	0.51
3:K:924:VAL:HG12	3:K:925:VAL:N	2.24	0.51
3:M:918:LEU:HD23	3:M:918:LEU:N	2.26	0.51
3:P:942:THR:HA	3:P:943:PRO:O	2.10	0.51
3:Q:647:SER:HB3	3:Q:921:VAL:O	2.10	0.51
1:A:214:ASN:ND2	1:A:216:ARG:HB3	2.24	0.50
1:A:420:ARG:HG2	1:A:420:ARG:O	2.10	0.50
1:C:227:MET:HB2	1:C:228:PRO:HD3	1.92	0.50
1:C:389:ARG:HG2	1:C:389:ARG:NH1	2.26	0.50
1:D:237:HIS:CD2	1:D:425:LEU:HD11	2.46	0.50
2:U:15:TYR:HD2	2:U:16:PRO:HD2	1.76	0.50
3:I:683:LYS:HD2	3:I:712:TYR:OH	2.12	0.50
3:I:746:ARG:HH11	3:I:753:TYR:HB2	1.75	0.50
3:J:601:ARG:NH2	3:J:695:ASP:O	2.38	0.50
3:L:393:TYR:CD2	3:L:533:PRO:HB2	2.45	0.50
3:M:325:TYR:O	3:M:594:SER:HA	2.11	0.50
3:M:445:PHE:CE2	3:N:165:THR:HG22	2.46	0.50
3:N:918:LEU:N	3:N:918:LEU:HD23	2.27	0.50
3:P:445:PHE:CE2	3:Q:165:THR:HG22	2.46	0.50
3:P:746:ARG:HH11	3:P:753:TYR:HB2	1.75	0.50
1:A:132:PRO:HA	1:A:175:TYR:CZ	2.45	0.50
1:B:457:ILE:HD12	1:B:458:SER:N	2.25	0.50
1:D:476:TYR:CD1	1:D:513:ILE:HD11	2.45	0.50
1:E:102:SER:O	1:E:103:PRO:C	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:237:HIS:CD2	1:E:425:LEU:HD11	2.46	0.50
3:H:759:ASN:OD1	3:H:862:LYS:HA	2.11	0.50
3:J:683:LYS:HD2	3:J:712:TYR:OH	2.11	0.50
3:L:683:LYS:HD2	3:L:712:TYR:OH	2.11	0.50
3:M:759:ASN:OD1	3:M:862:LYS:HA	2.11	0.50
3:N:647:SER:HB3	3:N:921:VAL:O	2.10	0.50
3:P:325:TYR:O	3:P:594:SER:HA	2.11	0.50
1:C:67:THR:CG2	1:D:449:VAL:CG2	2.89	0.50
1:C:98:ASN:C	1:C:98:ASN:ND2	2.66	0.50
1:E:231:TYR:HD1	1:E:503:GLN:HB3	1.75	0.50
1:E:389:ARG:HG2	1:E:389:ARG:NH1	2.26	0.50
3:F:803:GLN:OE1	3:H:552:GLY:N	2.43	0.50
3:G:133:GLU:OE2	3:G:264:GLN:OE1	2.29	0.50
3:I:803:GLN:OE1	3:K:552:GLY:N	2.43	0.50
3:K:133:GLU:OE2	3:K:264:GLN:OE1	2.29	0.50
3:N:759:ASN:OD1	3:N:862:LYS:HA	2.11	0.50
3:N:773:TYR:O	3:N:774:ASN:HB2	2.11	0.50
3:P:222:VAL:HG22	3:P:223:LEU:N	2.25	0.50
1:A:227:MET:HB2	1:A:228:PRO:HD3	1.92	0.50
1:A:457:ILE:HD12	1:A:458:SER:N	2.25	0.50
1:B:389:ARG:HG2	1:B:389:ARG:NH1	2.26	0.50
1:B:504:ILE:C	1:B:506:ALA:H	2.20	0.50
1:D:64:PHE:HD1	1:E:118:HIS:NE2	2.09	0.50
1:E:503:GLN:OE1	1:E:503:GLN:HA	2.12	0.50
2:W:15:TYR:HD2	2:W:16:PRO:HD2	1.77	0.50
3:H:218:ALA:HB3	3:H:283:VAL:CG2	2.37	0.50
3:I:165:THR:HG22	3:K:445:PHE:CE2	2.46	0.50
3:J:445:PHE:CE2	3:K:165:THR:HG22	2.46	0.50
3:J:552:GLY:N	3:K:803:GLN:OE1	2.43	0.50
3:K:773:TYR:O	3:K:774:ASN:HB2	2.11	0.50
3:K:918:LEU:N	3:K:918:LEU:HD23	2.26	0.50
3:L:165:THR:HG22	3:N:445:PHE:CE2	2.46	0.50
3:L:445:PHE:CE2	3:M:165:THR:HG22	2.46	0.50
3:O:74:ASP:OD1	3:O:586:LYS:NZ	2.30	0.50
3:O:133:GLU:OE2	3:O:264:GLN:OE1	2.29	0.50
3:P:924:VAL:HG12	3:P:925:VAL:N	2.24	0.50
1:A:295:SER:CB	1:A:377:PRO:CG	2.90	0.50
1:C:154:THR:CG2	1:C:155:LYS:HG3	2.41	0.50
1:C:197:ARG:HG3	1:C:198:GLN:N	2.27	0.50
1:D:100:ASP:CG	1:E:452:ARG:HH12	2.19	0.50
1:D:292:TYR:HD1	1:D:378:VAL:HG12	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:378:VAL:C	1:D:380:LYS:H	2.19	0.50
3:F:445:PHE:CE2	3:G:165:THR:HG22	2.46	0.50
3:J:222:VAL:HG22	3:J:223:LEU:N	2.25	0.50
3:J:918:LEU:HD23	3:J:918:LEU:N	2.26	0.50
3:O:683:LYS:HD2	3:O:712:TYR:OH	2.12	0.50
3:Q:133:GLU:OE2	3:Q:264:GLN:OE1	2.29	0.50
1:C:64:PHE:HD1	1:D:118:HIS:NE2	2.09	0.50
1:D:135:ASN:C	1:D:135:ASN:OD1	2.55	0.50
1:D:135:ASN:H	1:D:140:THR:HG1	1.59	0.50
1:E:135:ASN:OD1	1:E:135:ASN:C	2.55	0.50
1:E:378:VAL:C	1:E:380:LYS:H	2.19	0.50
1:E:499:PHE:CD1	1:E:505:LEU:HB3	2.45	0.50
2:T:15:TYR:HD2	2:T:16:PRO:HD2	1.77	0.50
3:F:165:THR:HG22	3:H:445:PHE:CE2	2.46	0.50
3:H:683:LYS:HD2	3:H:712:TYR:OH	2.11	0.50
3:L:773:TYR:O	3:L:774:ASN:HB2	2.11	0.50
3:O:746:ARG:HH11	3:O:753:TYR:HB2	1.75	0.50
3:O:918:LEU:N	3:O:918:LEU:HD23	2.27	0.50
1:B:68:ARG:NH1	1:B:68:ARG:CG	2.67	0.50
1:B:228:PRO:HB3	2:S:15:TYR:HE1	1.75	0.50
1:C:130:ASN:HD22	1:C:130:ASN:N	2.10	0.50
1:C:132:PRO:HA	1:C:175:TYR:CZ	2.45	0.50
1:C:420:ARG:O	1:C:420:ARG:HG2	2.10	0.50
1:C:504:ILE:C	1:C:506:ALA:H	2.20	0.50
1:D:499:PHE:CD1	1:D:505:LEU:HB3	2.44	0.50
3:F:759:ASN:OD1	3:F:862:LYS:HA	2.11	0.50
3:H:133:GLU:OE2	3:H:264:GLN:OE1	2.29	0.50
3:K:683:LYS:HD2	3:K:712:TYR:OH	2.12	0.50
3:L:759:ASN:OD1	3:L:862:LYS:HA	2.11	0.50
3:Q:683:LYS:HD2	3:Q:712:TYR:OH	2.11	0.50
1:A:487:ARG:NH1	1:A:507:ARG:HH22	2.07	0.50
1:B:295:SER:CB	1:B:377:PRO:CG	2.90	0.50
1:B:375:LYS:O	1:B:376:LYS:HG3	2.12	0.50
1:B:553:TYR:CE2	1:C:424:LEU:HD21	2.47	0.50
1:C:375:LYS:O	1:C:376:LYS:HG3	2.12	0.50
1:C:378:VAL:C	1:C:380:LYS:H	2.19	0.50
1:C:385:ASP:C	1:C:386:SER:O	2.52	0.50
1:D:385:ASP:C	1:D:386:SER:O	2.52	0.50
1:D:504:ILE:C	1:D:506:ALA:H	2.20	0.50
1:E:173:GLY:O	1:E:175:TYR:CE1	2.65	0.50
1:E:295:SER:CB	1:E:377:PRO:CG	2.90	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:75:THR:O	3:G:586:LYS:NZ	2.30	0.50
1:A:237:HIS:CD2	1:A:425:LEU:HD11	2.46	0.50
1:A:424:LEU:HD23	1:A:425:LEU:H	1.76	0.50
1:A:436:GLN:OE1	1:E:74:ASN:OD1	2.30	0.50
1:A:499:PHE:CD1	1:A:505:LEU:HB3	2.44	0.50
1:B:173:GLY:O	1:B:175:TYR:CE1	2.65	0.50
1:B:197:ARG:HG3	1:B:198:GLN:N	2.27	0.50
1:B:243:LEU:CD2	1:B:244:PRO:HD3	2.42	0.50
1:C:135:ASN:H	1:C:140:THR:HG1	1.60	0.50
1:C:173:GLY:O	1:C:175:TYR:CE1	2.65	0.50
1:D:201:VAL:HG13	1:D:201:VAL:O	2.12	0.50
3:G:918:LEU:N	3:G:918:LEU:HD23	2.26	0.50
3:I:759:ASN:OD1	3:I:862:LYS:HA	2.11	0.50
3:L:134:TRP:HB3	3:L:229:MET:HE1	1.94	0.50
3:L:746:ARG:HH11	3:L:753:TYR:HB2	1.75	0.50
3:L:918:LEU:N	3:L:918:LEU:HD23	2.27	0.50
3:M:133:GLU:OE2	3:M:264:GLN:OE1	2.29	0.50
3:M:810:TYR:CZ	3:M:855:VAL:HG12	2.47	0.50
3:Q:134:TRP:HB3	3:Q:229:MET:HE1	1.94	0.50
1:A:378:VAL:C	1:A:380:LYS:H	2.19	0.49
1:A:449:VAL:HG23	1:E:67:THR:OG1	2.12	0.49
1:C:503:GLN:HA	1:C:503:GLN:OE1	2.12	0.49
1:D:173:GLY:O	1:D:175:TYR:CE1	2.65	0.49
1:E:131:MET:HA	1:E:553:TYR:CD2	2.47	0.49
1:E:375:LYS:O	1:E:376:LYS:HG3	2.12	0.49
1:E:499:PHE:O	1:E:501:GLU:N	2.45	0.49
3:F:773:TYR:O	3:F:774:ASN:HB2	2.11	0.49
3:H:414:PHE:HB3	3:H:415:PRO:HD2	1.92	0.49
3:J:810:TYR:CZ	3:J:855:VAL:HG12	2.47	0.49
3:P:918:LEU:N	3:P:918:LEU:HD23	2.26	0.49
3:Q:810:TYR:CZ	3:Q:855:VAL:HG12	2.47	0.49
1:A:394:ILE:HD11	1:A:398:SER:OG	2.13	0.49
1:A:545:ASP:OD1	1:A:549:ARG:HG2	2.12	0.49
1:C:151:ARG:CB	1:C:201:VAL:H	2.25	0.49
1:D:197:ARG:HG3	1:D:198:GLN:N	2.27	0.49
1:D:394:ILE:HD11	1:D:398:SER:OG	2.13	0.49
1:E:197:ARG:HG3	1:E:198:GLN:N	2.27	0.49
1:E:201:VAL:O	1:E:201:VAL:HG13	2.12	0.49
1:E:499:PHE:HD1	1:E:505:LEU:CB	2.25	0.49
3:G:414:PHE:HB3	3:G:415:PRO:HD2	1.92	0.49
3:H:773:TYR:O	3:H:774:ASN:HB2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:552:GLY:N	3:J:803:GLN:OE1	2.43	0.49
3:I:918:LEU:N	3:I:918:LEU:HD23	2.27	0.49
3:J:942:THR:HA	3:J:943:PRO:O	2.10	0.49
3:O:118:THR:HG23	3:O:297:THR:HG23	1.94	0.49
1:B:135:ASN:C	1:B:135:ASN:OD1	2.55	0.49
1:B:499:PHE:CD1	1:B:505:LEU:HB3	2.44	0.49
1:B:542:THR:HG22	1:B:542:THR:O	2.13	0.49
1:C:243:LEU:CD2	1:C:244:PRO:HD3	2.43	0.49
1:C:243:LEU:CG	1:C:403:TYR:HE2	2.25	0.49
1:D:132:PRO:HA	1:D:175:TYR:CZ	2.45	0.49
1:D:499:PHE:HD1	1:D:505:LEU:CB	2.25	0.49
1:E:240:ILE:HD11	1:E:273:ILE:HG21	1.95	0.49
1:E:386:SER:O	1:E:388:LYS:N	2.45	0.49
1:E:520:VAL:CG2	1:E:521:PRO:HD2	2.42	0.49
2:S:15:TYR:HD2	2:S:16:PRO:HD2	1.77	0.49
3:I:118:THR:HG23	3:I:297:THR:HG23	1.94	0.49
3:J:118:THR:HG23	3:J:297:THR:HG23	1.95	0.49
3:J:134:TRP:HB3	3:J:229:MET:HE1	1.95	0.49
3:O:810:TYR:CZ	3:O:855:VAL:HG12	2.48	0.49
3:P:118:THR:HG23	3:P:297:THR:HG23	1.94	0.49
3:P:759:ASN:OD1	3:P:862:LYS:HA	2.11	0.49
1:A:197:ARG:HG3	1:A:198:GLN:N	2.27	0.49
1:A:201:VAL:HG13	1:A:201:VAL:O	2.12	0.49
1:B:67:THR:OG1	1:B:68:ARG:N	2.39	0.49
1:B:228:PRO:HG3	2:S:15:TYR:CE1	2.47	0.49
1:B:493:THR:HG22	1:B:494:HIS:N	2.27	0.49
1:C:131:MET:HA	1:C:553:TYR:CD2	2.47	0.49
1:C:295:SER:CB	1:C:377:PRO:CG	2.90	0.49
1:D:295:SER:CB	1:D:377:PRO:CG	2.90	0.49
1:D:520:VAL:CG2	1:D:521:PRO:HD2	2.43	0.49
1:E:243:LEU:CG	1:E:403:TYR:HE2	2.25	0.49
3:F:918:LEU:N	3:F:918:LEU:HD23	2.27	0.49
3:G:773:TYR:O	3:G:774:ASN:HB2	2.12	0.49
3:G:810:TYR:CZ	3:G:855:VAL:HG12	2.47	0.49
3:I:773:TYR:O	3:I:774:ASN:HB2	2.11	0.49
3:J:334:GLY:O	3:J:585:ARG:HD2	2.13	0.49
3:J:773:TYR:O	3:J:774:ASN:HB2	2.12	0.49
3:M:134:TRP:HB3	3:M:229:MET:HE1	1.94	0.49
1:D:131:MET:HA	1:D:553:TYR:CD2	2.47	0.49
1:D:503:GLN:OE1	1:D:503:GLN:HA	2.12	0.49
1:E:130:ASN:N	1:E:130:ASN:ND2	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:132:PRO:CA	1:E:175:TYR:OH	2.53	0.49
1:E:135:ASN:H	1:E:140:THR:HG1	1.61	0.49
1:E:504:ILE:C	1:E:506:ALA:H	2.20	0.49
3:G:927:VAL:HG12	3:G:929:ARG:HH12	1.78	0.49
3:I:267:SER:O	3:K:426:THR:N	2.39	0.49
3:J:927:VAL:HG12	3:J:929:ARG:HH12	1.78	0.49
3:K:810:TYR:CZ	3:K:855:VAL:HG12	2.47	0.49
3:M:683:LYS:HD2	3:M:712:TYR:OH	2.11	0.49
3:O:773:TYR:O	3:O:774:ASN:HB2	2.11	0.49
3:O:927:VAL:HG12	3:O:929:ARG:HH12	1.78	0.49
1:A:74:ASN:OD1	1:B:436:GLN:OE1	2.31	0.49
1:A:173:GLY:O	1:A:175:TYR:CE1	2.65	0.49
1:A:292:TYR:HD1	1:A:378:VAL:HG12	1.75	0.49
1:A:386:SER:O	1:A:388:LYS:N	2.45	0.49
1:A:449:VAL:HA	1:E:63:LEU:HD12	1.93	0.49
1:A:503:GLN:OE1	1:A:503:GLN:HA	2.12	0.49
1:A:504:ILE:C	1:A:506:ALA:H	2.20	0.49
1:B:131:MET:HA	1:B:553:TYR:CD2	2.47	0.49
1:B:520:VAL:CG2	1:B:521:PRO:HD2	2.43	0.49
1:C:240:ILE:HD11	1:C:273:ILE:HG21	1.95	0.49
1:C:493:THR:HG22	1:C:494:HIS:N	2.27	0.49
1:C:520:VAL:CG2	1:C:521:PRO:HD2	2.43	0.49
1:E:493:THR:HG22	1:E:494:HIS:N	2.27	0.49
3:F:134:TRP:HB3	3:F:229:MET:HE1	1.94	0.49
3:F:552:GLY:N	3:G:803:GLN:OE1	2.43	0.49
3:G:683:LYS:HD2	3:G:712:TYR:OH	2.11	0.49
3:H:918:LEU:N	3:H:918:LEU:HD23	2.27	0.49
3:I:601:ARG:NH2	3:I:695:ASP:O	2.38	0.49
3:K:118:THR:HG23	3:K:297:THR:HG23	1.95	0.49
3:L:810:TYR:CZ	3:L:855:VAL:HG12	2.48	0.49
3:N:810:TYR:CZ	3:N:855:VAL:HG12	2.47	0.49
3:O:218:ALA:HB3	3:O:283:VAL:CG2	2.37	0.49
3:P:683:LYS:HD2	3:P:712:TYR:OH	2.11	0.49
3:Q:927:VAL:HG12	3:Q:929:ARG:HH12	1.78	0.49
1:B:545:ASP:OD1	1:B:549:ARG:HG2	2.12	0.49
1:C:394:ILE:HD11	1:C:398:SER:OG	2.13	0.49
1:D:476:TYR:HH	1:D:478:ASP:CG	2.19	0.49
1:D:545:ASP:OD1	1:D:549:ARG:HG2	2.12	0.49
1:E:394:ILE:HD11	1:E:398:SER:OG	2.13	0.49
1:E:544:THR:HG22	1:E:545:ASP:N	2.27	0.49
3:I:134:TRP:HB3	3:I:229:MET:HE1	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:927:VAL:HG12	3:L:929:ARG:HH12	1.78	0.49
3:M:927:VAL:HG12	3:M:929:ARG:HH12	1.78	0.49
3:O:334:GLY:O	3:O:585:ARG:HD2	2.13	0.49
3:Q:918:LEU:N	3:Q:918:LEU:HD23	2.27	0.49
1:A:243:LEU:CD2	1:A:244:PRO:HD3	2.42	0.49
1:A:375:LYS:O	1:A:376:LYS:HG3	2.12	0.49
1:A:378:VAL:O	1:A:379:ILE:C	2.55	0.49
1:A:544:THR:HG22	1:A:545:ASP:N	2.27	0.49
1:C:479:GLN:O	1:C:483:SER:HB3	2.07	0.49
1:C:499:PHE:CD1	1:C:505:LEU:HB3	2.44	0.49
1:E:243:LEU:CD2	1:E:244:PRO:HD3	2.42	0.49
3:I:810:TYR:CZ	3:I:855:VAL:HG12	2.48	0.49
3:K:601:ARG:NH2	3:K:695:ASP:O	2.38	0.49
3:Q:334:GLY:O	3:Q:585:ARG:HD2	2.13	0.49
1:A:132:PRO:CA	1:A:175:TYR:OH	2.53	0.49
1:A:135:ASN:C	1:A:135:ASN:OD1	2.55	0.49
1:B:378:VAL:O	1:B:379:ILE:C	2.55	0.49
1:B:386:SER:O	1:B:388:LYS:N	2.45	0.49
1:B:444:MET:CE	1:B:561:VAL:HG21	2.28	0.49
1:C:544:THR:HG22	1:C:545:ASP:N	2.27	0.49
1:D:243:LEU:CD2	1:D:244:PRO:HD3	2.42	0.49
1:E:545:ASP:OD1	1:E:549:ARG:HG2	2.12	0.49
3:K:68:ILE:HB	3:M:73:GLU:OE2	2.12	0.49
3:L:669:ARG:NH2	3:O:727:SER:HB3	2.21	0.49
3:L:864:LEU:HD12	3:L:864:LEU:HA	1.70	0.49
3:N:683:LYS:HD2	3:N:712:TYR:OH	2.11	0.49
3:Q:319:MET:HG2	3:Q:320:PRO:HD2	1.95	0.49
1:A:130:ASN:N	1:A:130:ASN:ND2	2.61	0.49
1:A:479:GLN:O	1:A:483:SER:HB3	2.07	0.49
1:B:135:ASN:H	1:B:140:THR:HG1	1.60	0.49
1:B:201:VAL:O	1:B:201:VAL:HG13	2.12	0.49
1:B:243:LEU:CG	1:B:403:TYR:HE2	2.25	0.49
1:B:424:LEU:HD23	1:B:425:LEU:H	1.76	0.49
1:C:378:VAL:O	1:C:379:ILE:C	2.55	0.49
1:C:386:SER:O	1:C:388:LYS:N	2.46	0.49
1:D:375:LYS:O	1:D:376:LYS:HG3	2.12	0.49
1:D:378:VAL:O	1:D:379:ILE:C	2.55	0.49
2:S:10:THR:O	2:S:10:THR:CG2	2.60	0.49
3:G:134:TRP:HB3	3:G:229:MET:HE1	1.94	0.49
3:H:361:GLN:HE22	3:H:691:GLY:HA2	1.78	0.49
3:H:810:TYR:CZ	3:H:855:VAL:HG12	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:523:TRP:CH2	3:K:862:LYS:HE2	2.48	0.49
3:M:319:MET:HG2	3:M:320:PRO:HD2	1.95	0.49
3:M:773:TYR:O	3:M:774:ASN:HB2	2.12	0.49
3:N:134:TRP:HB3	3:N:229:MET:HE1	1.94	0.49
3:Q:118:THR:HG23	3:Q:297:THR:HG23	1.95	0.49
1:C:135:ASN:C	1:C:135:ASN:OD1	2.55	0.48
1:D:386:SER:O	1:D:388:LYS:N	2.45	0.48
1:D:544:THR:HG22	1:D:545:ASP:N	2.27	0.48
1:E:378:VAL:O	1:E:379:ILE:C	2.55	0.48
1:E:385:ASP:C	1:E:386:SER:O	2.52	0.48
3:F:118:THR:HG23	3:F:297:THR:HG23	1.94	0.48
3:F:175:GLY:HA3	3:F:183:ILE:HD11	1.95	0.48
3:G:334:GLY:O	3:G:585:ARG:HD2	2.13	0.48
3:L:175:GLY:HA3	3:L:183:ILE:HD11	1.95	0.48
3:M:334:GLY:O	3:M:585:ARG:HD2	2.13	0.48
3:M:746:ARG:HH11	3:M:753:TYR:HB2	1.75	0.48
3:M:864:LEU:HD12	3:M:864:LEU:HA	1.70	0.48
3:O:803:GLN:OE1	3:Q:552:GLY:N	2.43	0.48
3:P:334:GLY:O	3:P:585:ARG:HD2	2.13	0.48
3:P:523:TRP:CH2	3:P:862:LYS:HE2	2.48	0.48
1:A:151:ARG:CB	1:A:201:VAL:H	2.25	0.48
1:A:497:ASN:ND2	1:A:500:PRO:HB3	2.28	0.48
1:A:520:VAL:CG2	1:A:521:PRO:HD2	2.43	0.48
1:B:132:PRO:HA	1:B:175:TYR:CZ	2.45	0.48
1:B:497:ASN:ND2	1:B:500:PRO:HB3	2.28	0.48
1:D:130:ASN:N	1:D:130:ASN:ND2	2.61	0.48
1:D:228:PRO:CB	2:U:15:TYR:HE1	2.25	0.48
3:F:683:LYS:HD2	3:F:712:TYR:OH	2.12	0.48
3:G:175:GLY:HA3	3:G:183:ILE:HD11	1.96	0.48
3:G:319:MET:HG2	3:G:320:PRO:HD2	1.95	0.48
3:H:118:THR:HG23	3:H:297:THR:HG23	1.95	0.48
3:H:334:GLY:O	3:H:585:ARG:HD2	2.13	0.48
3:L:334:GLY:O	3:L:585:ARG:HD2	2.13	0.48
3:L:523:TRP:CH2	3:L:862:LYS:HE2	2.48	0.48
3:M:118:THR:HG23	3:M:297:THR:HG23	1.95	0.48
3:M:352:SER:C	3:M:354:LEU:H	2.21	0.48
3:O:552:GLY:N	3:P:803:GLN:OE1	2.43	0.48
3:P:773:TYR:O	3:P:774:ASN:HB2	2.12	0.48
3:Q:601:ARG:NH2	3:Q:695:ASP:O	2.38	0.48
1:A:493:THR:HG22	1:A:494:HIS:N	2.27	0.48
1:B:183:LEU:HD21	1:C:236:PHE:HE2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:499:PHE:HD1	1:B:505:LEU:CB	2.25	0.48
1:B:499:PHE:O	1:B:501:GLU:N	2.45	0.48
1:C:201:VAL:HG13	1:C:201:VAL:O	2.12	0.48
1:C:545:ASP:OD1	1:C:549:ARG:HG2	2.12	0.48
1:E:151:ARG:CB	1:E:201:VAL:H	2.25	0.48
3:F:523:TRP:CH2	3:F:862:LYS:HE2	2.48	0.48
3:F:927:VAL:HG12	3:F:929:ARG:HH12	1.78	0.48
3:H:175:GLY:HA3	3:H:183:ILE:HD11	1.95	0.48
3:H:927:VAL:HG12	3:H:929:ARG:HH12	1.78	0.48
3:P:810:TYR:CZ	3:P:855:VAL:HG12	2.47	0.48
1:A:131:MET:HA	1:A:553:TYR:CD2	2.47	0.48
1:A:135:ASN:H	1:A:140:THR:HG1	1.60	0.48
1:C:67:THR:OG1	1:D:449:VAL:HG23	2.14	0.48
1:C:130:ASN:N	1:C:130:ASN:ND2	2.61	0.48
1:E:244:PRO:HA	1:E:275:TYR:CD2	2.49	0.48
2:V:15:TYR:HD2	2:V:16:PRO:HD2	1.77	0.48
3:F:334:GLY:O	3:F:585:ARG:HD2	2.13	0.48
3:G:361:GLN:HE22	3:G:691:GLY:HA2	1.79	0.48
3:H:746:ARG:HH11	3:H:753:TYR:HB2	1.75	0.48
3:I:319:MET:HG2	3:I:320:PRO:HD2	1.95	0.48
3:I:523:TRP:CH2	3:I:862:LYS:HE2	2.48	0.48
3:K:68:ILE:HG12	3:M:73:GLU:OE1	2.12	0.48
3:K:334:GLY:O	3:K:585:ARG:HD2	2.13	0.48
3:M:74:ASP:OD1	3:M:586:LYS:NZ	2.30	0.48
3:N:927:VAL:HG12	3:N:929:ARG:HH12	1.78	0.48
1:B:228:PRO:HG3	2:S:15:TYR:CD1	2.48	0.48
1:C:211:ASP:HA	1:C:508:PRO:CG	2.44	0.48
1:C:237:HIS:HD2	1:C:238:PRO:O	1.96	0.48
1:D:243:LEU:CG	1:D:403:TYR:HE2	2.25	0.48
1:E:145:ALA:HA	1:E:248:VAL:HA	1.96	0.48
3:J:361:GLN:HE22	3:J:691:GLY:HA2	1.79	0.48
3:K:218:ALA:HB3	3:K:283:VAL:CG2	2.37	0.48
3:K:319:MET:HG2	3:K:320:PRO:HD2	1.95	0.48
3:N:523:TRP:CH2	3:N:862:LYS:HE2	2.48	0.48
3:P:927:VAL:HG12	3:P:929:ARG:HH12	1.78	0.48
1:A:180:THR:HG21	1:A:258:LEU:CD2	2.44	0.48
1:B:394:ILE:HD11	1:B:398:SER:OG	2.13	0.48
1:B:544:THR:HG22	1:B:545:ASP:N	2.27	0.48
1:C:497:ASN:ND2	1:C:500:PRO:HB3	2.28	0.48
1:D:130:ASN:HD22	1:D:130:ASN:N	2.10	0.48
1:D:237:HIS:HD2	1:D:238:PRO:O	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:497:ASN:ND2	1:D:500:PRO:HB3	2.28	0.48
3:F:361:GLN:HE22	3:F:691:GLY:HA2	1.79	0.48
3:F:746:ARG:HH11	3:F:753:TYR:HB2	1.75	0.48
3:F:810:TYR:CZ	3:F:855:VAL:HG12	2.47	0.48
3:G:523:TRP:CH2	3:G:862:LYS:HE2	2.48	0.48
3:G:717:PHE:HB3	3:G:744:ILE:HD13	1.96	0.48
3:N:352:SER:C	3:N:354:LEU:H	2.21	0.48
3:P:319:MET:HG2	3:P:320:PRO:HD2	1.95	0.48
3:Q:175:GLY:HA3	3:Q:183:ILE:HD11	1.95	0.48
1:A:118:HIS:NE2	1:E:64:PHE:HD1	2.12	0.48
1:A:240:ILE:HD11	1:A:273:ILE:HG21	1.95	0.48
1:A:542:THR:O	1:A:542:THR:HG22	2.13	0.48
1:B:240:ILE:HD11	1:B:273:ILE:HG21	1.95	0.48
1:B:244:PRO:HA	1:B:275:TYR:CD2	2.49	0.48
1:C:180:THR:HG21	1:C:258:LEU:CD2	2.44	0.48
1:C:424:LEU:HD23	1:C:425:LEU:H	1.76	0.48
1:C:555:TYR:HE2	1:D:434:SER:N	2.12	0.48
1:D:151:ARG:CB	1:D:201:VAL:H	2.25	0.48
1:D:211:ASP:HA	1:D:508:PRO:CG	2.44	0.48
1:D:244:PRO:HA	1:D:275:TYR:CD2	2.49	0.48
1:D:555:TYR:HE2	1:E:434:SER:N	2.11	0.48
1:E:292:TYR:HD1	1:E:378:VAL:HG12	1.76	0.48
3:G:118:THR:HG23	3:G:297:THR:HG23	1.95	0.48
3:H:352:SER:C	3:H:354:LEU:H	2.22	0.48
3:I:175:GLY:HA3	3:I:183:ILE:HD11	1.95	0.48
3:I:334:GLY:O	3:I:585:ARG:HD2	2.13	0.48
3:J:523:TRP:CH2	3:J:862:LYS:HE2	2.48	0.48
3:N:118:THR:HG23	3:N:297:THR:HG23	1.94	0.48
3:P:134:TRP:HB3	3:P:229:MET:HE1	1.94	0.48
3:P:218:ALA:HB3	3:P:283:VAL:CG2	2.37	0.48
3:Q:523:TRP:CH2	3:Q:862:LYS:HE2	2.48	0.48
1:A:142:LYS:O	1:A:143:PHE:HB3	2.14	0.48
1:A:237:HIS:HD2	1:A:238:PRO:O	1.96	0.48
1:C:193:LEU:HD22	1:C:197:ARG:NH1	2.29	0.48
1:D:145:ALA:HA	1:D:248:VAL:HA	1.96	0.48
1:D:180:THR:HG21	1:D:258:LEU:CD2	2.44	0.48
1:D:493:THR:HG22	1:D:494:HIS:N	2.27	0.48
1:D:493:THR:HG22	1:D:495:VAL:N	2.29	0.48
1:E:479:GLN:O	1:E:483:SER:HB3	2.07	0.48
1:E:542:THR:O	1:E:542:THR:HG22	2.13	0.48
3:F:218:ALA:HB3	3:F:283:VAL:CG2	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:927:VAL:HG12	3:I:929:ARG:HH12	1.78	0.48
3:J:75:THR:CG2	3:J:76:ALA:N	2.77	0.48
3:J:427:LYS:HG2	3:J:428:VAL:N	2.29	0.48
3:L:352:SER:C	3:L:354:LEU:H	2.22	0.48
3:N:334:GLY:O	3:N:585:ARG:HD2	2.13	0.48
3:N:361:GLN:HE22	3:N:691:GLY:HA2	1.79	0.48
3:P:601:ARG:NH2	3:P:695:ASP:O	2.38	0.48
1:A:193:LEU:HD22	1:A:197:ARG:NH1	2.29	0.48
1:A:211:ASP:HA	1:A:508:PRO:CG	2.44	0.48
1:A:456:GLN:O	1:A:458:SER:N	2.47	0.48
1:B:142:LYS:HD3	1:B:167:GLU:OE2	2.14	0.48
1:B:145:ALA:HA	1:B:248:VAL:HA	1.96	0.48
1:B:151:ARG:CB	1:B:201:VAL:H	2.25	0.48
1:B:154:THR:CG2	1:B:155:LYS:HG3	2.40	0.48
1:B:503:GLN:OE1	1:B:503:GLN:HA	2.12	0.48
1:C:63:LEU:HD12	1:D:449:VAL:HA	1.94	0.48
1:C:456:GLN:O	1:C:458:SER:N	2.47	0.48
1:E:130:ASN:HD22	1:E:130:ASN:N	2.10	0.48
1:E:180:THR:HG21	1:E:258:LEU:CD2	2.44	0.48
1:E:497:ASN:ND2	1:E:500:PRO:HB3	2.28	0.48
3:H:68:ILE:HB	3:I:73:GLU:OE2	2.14	0.48
3:I:361:GLN:HE22	3:I:691:GLY:HA2	1.79	0.48
3:J:717:PHE:HB3	3:J:744:ILE:HD13	1.96	0.48
3:L:118:THR:HG23	3:L:297:THR:HG23	1.94	0.48
3:O:75:THR:CG2	3:O:76:ALA:N	2.77	0.48
3:P:175:GLY:HA3	3:P:183:ILE:HD11	1.95	0.48
3:P:352:SER:C	3:P:354:LEU:H	2.21	0.48
3:Q:361:GLN:HE22	3:Q:691:GLY:HA2	1.79	0.48
1:A:75:LYS:O	1:A:78:ASP:OD1	2.32	0.48
1:A:230:VAL:CG1	1:E:492:LEU:HB2	2.31	0.48
1:A:243:LEU:CG	1:A:403:TYR:HE2	2.25	0.48
1:B:180:THR:HG21	1:B:258:LEU:CD2	2.44	0.48
1:B:456:GLN:O	1:B:458:SER:N	2.47	0.48
1:C:142:LYS:O	1:C:143:PHE:HB3	2.14	0.48
1:C:239:ASP:HB3	1:C:407:TYR:HB2	1.96	0.48
1:C:499:PHE:O	1:C:501:GLU:N	2.46	0.48
1:E:142:LYS:HD3	1:E:167:GLU:OE2	2.14	0.48
1:E:211:ASP:HA	1:E:508:PRO:CG	2.44	0.48
1:E:237:HIS:HD2	1:E:238:PRO:O	1.96	0.48
2:V:15:TYR:C	2:V:15:TYR:CD2	2.92	0.48
3:F:717:PHE:HB3	3:F:744:ILE:HD13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:601:ARG:NH2	3:G:695:ASP:O	2.38	0.48
3:J:175:GLY:HA3	3:J:183:ILE:HD11	1.95	0.48
3:J:319:MET:HG2	3:J:320:PRO:HD2	1.95	0.48
3:J:383:PHE:HB2	3:K:782:ILE:HD11	1.96	0.48
3:K:717:PHE:HB3	3:K:744:ILE:HD13	1.96	0.48
3:N:75:THR:CG2	3:N:76:ALA:N	2.77	0.48
3:Q:352:SER:C	3:Q:354:LEU:H	2.22	0.48
1:A:452:ARG:NH2	1:E:99:ASN:HB3	2.29	0.47
1:B:385:ASP:C	1:B:386:SER:O	2.52	0.47
1:B:479:GLN:O	1:B:483:SER:HB3	2.07	0.47
1:D:57:TYR:CE2	1:E:450:THR:HG22	2.47	0.47
1:D:193:LEU:HD22	1:D:197:ARG:NH1	2.29	0.47
1:D:269:GLU:HG3	1:D:269:GLU:O	2.14	0.47
1:E:193:LEU:HD22	1:E:197:ARG:NH1	2.29	0.47
3:G:383:PHE:HB2	3:H:782:ILE:HD11	1.96	0.47
3:H:134:TRP:HB3	3:H:229:MET:HE1	1.94	0.47
3:I:88:GLY:O	3:I:91:ARG:HB2	2.15	0.47
3:K:352:SER:C	3:K:354:LEU:H	2.22	0.47
3:L:427:LYS:HG2	3:L:428:VAL:N	2.29	0.47
3:M:75:THR:CG2	3:M:76:ALA:N	2.77	0.47
1:A:87:ASP:O	1:A:89:SER:N	2.46	0.47
1:A:130:ASN:HD22	1:A:130:ASN:N	2.10	0.47
1:A:142:LYS:HD3	1:A:167:GLU:OE2	2.14	0.47
1:A:499:PHE:HD1	1:A:505:LEU:CB	2.25	0.47
1:B:75:LYS:O	1:B:78:ASP:OD1	2.32	0.47
1:B:217:LEU:HD23	1:B:217:LEU:HA	1.74	0.47
1:D:87:ASP:O	1:D:89:SER:N	2.46	0.47
1:D:142:LYS:HD3	1:D:167:GLU:OE2	2.14	0.47
1:D:240:ILE:HD11	1:D:273:ILE:HG21	1.95	0.47
1:D:492:LEU:HB2	1:E:230:VAL:CG1	2.29	0.47
1:D:499:PHE:O	1:D:501:GLU:N	2.45	0.47
3:H:75:THR:CG2	3:H:76:ALA:N	2.77	0.47
3:H:523:TRP:CH2	3:H:862:LYS:HE2	2.48	0.47
3:K:134:TRP:HB3	3:K:229:MET:HE1	1.94	0.47
3:K:361:GLN:HE22	3:K:691:GLY:HA2	1.79	0.47
3:L:319:MET:HG2	3:L:320:PRO:HD2	1.95	0.47
3:L:361:GLN:HE22	3:L:691:GLY:HA2	1.79	0.47
3:M:88:GLY:O	3:M:91:ARG:HB2	2.15	0.47
3:M:218:ALA:HB3	3:M:283:VAL:CG2	2.37	0.47
3:O:134:TRP:HB3	3:O:229:MET:HE1	1.94	0.47
3:O:459:MET:HG3	3:Q:459:MET:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:601:ARG:NH2	3:O:695:ASP:O	2.38	0.47
3:P:361:GLN:HE22	3:P:691:GLY:HA2	1.79	0.47
3:P:717:PHE:HB3	3:P:744:ILE:HD13	1.96	0.47
3:Q:427:LYS:HG2	3:Q:428:VAL:N	2.29	0.47
1:A:145:ALA:HA	1:A:248:VAL:HA	1.96	0.47
1:B:193:LEU:HD22	1:B:197:ARG:NH1	2.29	0.47
1:B:490:THR:HG22	1:C:481:VAL:HG12	1.95	0.47
1:C:145:ALA:HA	1:C:248:VAL:HA	1.96	0.47
1:C:269:GLU:HG3	1:C:269:GLU:O	2.14	0.47
1:C:493:THR:HG22	1:C:495:VAL:N	2.29	0.47
1:D:239:ASP:HB3	1:D:407:TYR:HB2	1.96	0.47
1:D:456:GLN:O	1:D:458:SER:N	2.47	0.47
1:D:542:THR:O	1:D:542:THR:HG22	2.13	0.47
3:F:352:SER:C	3:F:354:LEU:H	2.22	0.47
3:G:427:LYS:HG2	3:G:428:VAL:N	2.29	0.47
3:I:459:MET:HG3	3:K:459:MET:HE2	1.97	0.47
3:I:782:ILE:HD11	3:K:383:PHE:HB2	1.97	0.47
3:K:927:VAL:HG12	3:K:929:ARG:HH12	1.78	0.47
3:L:218:ALA:HB3	3:L:283:VAL:CG2	2.37	0.47
3:N:175:GLY:HA3	3:N:183:ILE:HD11	1.95	0.47
3:O:88:GLY:O	3:O:91:ARG:HB2	2.15	0.47
3:O:267:SER:O	3:Q:426:THR:N	2.39	0.47
3:O:319:MET:HG2	3:O:320:PRO:HD2	1.95	0.47
3:O:459:MET:HE2	3:P:459:MET:HG3	1.97	0.47
3:P:427:LYS:HG2	3:P:428:VAL:N	2.29	0.47
1:A:244:PRO:HA	1:A:275:TYR:CD2	2.49	0.47
1:A:269:GLU:O	1:A:269:GLU:HG3	2.14	0.47
1:B:142:LYS:HG2	1:B:169:THR:HG22	1.97	0.47
1:B:211:ASP:HA	1:B:508:PRO:CG	2.44	0.47
1:E:493:THR:HG22	1:E:495:VAL:N	2.29	0.47
2:T:15:TYR:C	2:T:15:TYR:CD2	2.92	0.47
3:K:818:ILE:H	3:K:818:ILE:HG13	1.47	0.47
3:M:383:PHE:HB2	3:N:782:ILE:HD11	1.96	0.47
3:M:523:TRP:CH2	3:M:862:LYS:HE2	2.48	0.47
3:N:218:ALA:HB3	3:N:283:VAL:CG2	2.37	0.47
3:P:383:PHE:HB2	3:Q:782:ILE:HD11	1.96	0.47
3:Q:75:THR:CG2	3:Q:76:ALA:N	2.77	0.47
1:B:130:ASN:HD22	1:B:130:ASN:N	2.10	0.47
1:B:493:THR:HG22	1:B:495:VAL:N	2.29	0.47
1:C:476:TYR:HD1	1:C:513:ILE:HD11	1.80	0.47
1:D:142:LYS:O	1:D:143:PHE:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:463:VAL:HB	1:D:529:LEU:CD1	2.44	0.47
1:E:269:GLU:HG3	1:E:269:GLU:O	2.14	0.47
1:E:456:GLN:O	1:E:458:SER:N	2.47	0.47
3:F:427:LYS:HG2	3:F:428:VAL:N	2.29	0.47
3:F:459:MET:HG3	3:H:459:MET:HE2	1.96	0.47
3:L:75:THR:CG2	3:L:76:ALA:N	2.77	0.47
3:M:361:GLN:HE22	3:M:691:GLY:HA2	1.79	0.47
3:N:5:MET:O	3:N:7:PRO:HD2	2.15	0.47
3:N:427:LYS:HG2	3:N:428:VAL:N	2.29	0.47
3:O:383:PHE:HB2	3:P:782:ILE:HD11	1.97	0.47
3:O:427:LYS:HG2	3:O:428:VAL:N	2.29	0.47
3:P:88:GLY:O	3:P:91:ARG:HB2	2.15	0.47
3:Q:596:LEU:HD12	3:Q:596:LEU:HA	1.68	0.47
1:A:499:PHE:O	1:A:501:GLU:N	2.46	0.47
1:B:130:ASN:N	1:B:130:ASN:ND2	2.61	0.47
1:B:544:THR:CG2	1:B:549:ARG:H	2.28	0.47
1:C:88:HIS:HD2	1:D:267:PHE:HZ	1.63	0.47
1:C:215:PHE:CE1	1:C:241:ILE:HD11	2.49	0.47
1:C:542:THR:O	1:C:542:THR:HG22	2.13	0.47
1:D:132:PRO:CA	1:D:175:TYR:OH	2.53	0.47
1:D:486:ILE:CG2	1:E:482:TYR:HE1	2.22	0.47
1:E:75:LYS:O	1:E:78:ASP:OD1	2.32	0.47
1:E:83:ASN:CA	1:E:86:ASN:HD22	2.21	0.47
3:F:319:MET:HG2	3:F:320:PRO:HD2	1.95	0.47
3:G:352:SER:C	3:G:354:LEU:H	2.21	0.47
3:I:717:PHE:HB3	3:I:744:ILE:HD13	1.96	0.47
3:J:352:SER:C	3:J:354:LEU:H	2.21	0.47
3:L:383:PHE:HB2	3:M:782:ILE:HD11	1.96	0.47
3:M:548:LEU:HD12	3:M:548:LEU:HA	1.76	0.47
3:N:88:GLY:O	3:N:91:ARG:HB2	2.15	0.47
3:O:352:SER:C	3:O:354:LEU:H	2.22	0.47
1:A:88:HIS:HD2	1:B:267:PHE:HZ	1.63	0.47
1:A:131:MET:SD	1:A:138:MET:HG3	2.55	0.47
1:A:482:TYR:HE1	1:E:486:ILE:CG2	2.24	0.47
1:A:544:THR:CG2	1:A:549:ARG:H	2.28	0.47
1:B:96:ILE:O	1:C:450:THR:CB	2.63	0.47
1:B:215:PHE:CE1	1:B:241:ILE:HD11	2.49	0.47
1:B:269:GLU:HG3	1:B:269:GLU:O	2.14	0.47
1:B:436:GLN:NE2	1:B:438:TYR:CE2	2.81	0.47
1:B:476:TYR:HD1	1:B:513:ILE:HD11	1.80	0.47
1:B:544:THR:HG22	1:B:549:ARG:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:75:LYS:O	1:C:78:ASP:OD1	2.32	0.47
1:C:132:PRO:CA	1:C:175:TYR:OH	2.53	0.47
1:D:75:LYS:O	1:D:78:ASP:OD1	2.32	0.47
1:D:215:PHE:CE1	1:D:241:ILE:HD11	2.49	0.47
1:D:468:LEU:HA	1:D:469:PRO:HD3	1.78	0.47
1:D:544:THR:CG2	1:D:549:ARG:H	2.28	0.47
1:D:544:THR:HG22	1:D:549:ARG:H	1.80	0.47
1:E:142:LYS:O	1:E:143:PHE:HB3	2.14	0.47
1:E:289:VAL:HG13	1:E:290:ASP:N	2.30	0.47
1:E:463:VAL:HB	1:E:529:LEU:CD1	2.44	0.47
1:E:544:THR:HG22	1:E:549:ARG:H	1.79	0.47
2:S:15:TYR:C	2:S:15:TYR:CD2	2.92	0.47
2:V:10:THR:O	2:V:10:THR:CG2	2.60	0.47
3:F:5:MET:O	3:F:7:PRO:HD2	2.15	0.47
3:F:88:GLY:O	3:F:91:ARG:HB2	2.15	0.47
3:H:717:PHE:HB3	3:H:744:ILE:HD13	1.96	0.47
3:I:383:PHE:HB2	3:J:782:ILE:HD11	1.97	0.47
3:J:5:MET:O	3:J:7:PRO:HD2	2.15	0.47
3:J:241:ASN:HD21	3:J:245:GLY:HA3	1.80	0.47
3:L:88:GLY:O	3:L:91:ARG:HB2	2.15	0.47
3:L:379:ARG:HD2	3:L:379:ARG:HA	1.72	0.47
3:L:459:MET:HE2	3:M:459:MET:HG3	1.97	0.47
3:L:782:ILE:HD11	3:N:383:PHE:HB2	1.96	0.47
3:M:175:GLY:HA3	3:M:183:ILE:HD11	1.95	0.47
3:M:241:ASN:HD21	3:M:245:GLY:HA3	1.80	0.47
3:N:319:MET:HG2	3:N:320:PRO:HD2	1.95	0.47
3:O:175:GLY:HA3	3:O:183:ILE:HD11	1.95	0.47
3:O:717:PHE:HB3	3:O:744:ILE:HD13	1.96	0.47
3:Q:5:MET:O	3:Q:7:PRO:HD2	2.15	0.47
1:A:476:TYR:HD1	1:A:513:ILE:HD11	1.80	0.47
1:C:142:LYS:HD3	1:C:167:GLU:OE2	2.14	0.47
1:C:244:PRO:HA	1:C:275:TYR:CD2	2.49	0.47
1:C:289:VAL:HG13	1:C:290:ASP:N	2.30	0.47
1:D:289:VAL:HG13	1:D:290:ASP:N	2.30	0.47
1:D:476:TYR:HD1	1:D:513:ILE:HD11	1.80	0.47
1:E:215:PHE:CE1	1:E:241:ILE:HD11	2.50	0.47
2:U:15:TYR:C	2:U:15:TYR:CD2	2.92	0.47
3:F:241:ASN:HD21	3:F:245:GLY:HA3	1.80	0.47
3:F:675:ARG:NH1	3:F:921:VAL:N	2.63	0.47
3:G:746:ARG:HH11	3:G:753:TYR:HB2	1.75	0.47
3:I:5:MET:O	3:I:7:PRO:HD2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:88:GLY:O	3:J:91:ARG:HB2	2.15	0.47
3:K:75:THR:CG2	3:K:76:ALA:N	2.77	0.47
3:K:175:GLY:HA3	3:K:183:ILE:HD11	1.95	0.47
3:N:241:ASN:HD21	3:N:245:GLY:HA3	1.80	0.47
3:O:523:TRP:CH2	3:O:862:LYS:HE2	2.49	0.47
3:Q:88:GLY:O	3:Q:91:ARG:HB2	2.15	0.47
1:A:154:THR:CG2	1:A:155:LYS:HG3	2.41	0.47
1:A:239:ASP:HB3	1:A:407:TYR:HB2	1.96	0.47
1:A:493:THR:HG22	1:A:495:VAL:N	2.29	0.47
1:B:237:HIS:HD2	1:B:238:PRO:O	1.96	0.47
1:C:142:LYS:HG2	1:C:169:THR:HG22	1.97	0.47
1:D:131:MET:SD	1:D:138:MET:HG3	2.55	0.47
1:D:449:VAL:HG12	1:D:450:THR:HG23	1.97	0.47
3:F:750:GLY:O	3:F:751:GLU:C	2.58	0.47
3:G:75:THR:CG2	3:G:76:ALA:N	2.77	0.47
3:H:88:GLY:O	3:H:91:ARG:HB2	2.15	0.47
3:I:75:THR:CG2	3:I:76:ALA:N	2.77	0.47
3:M:675:ARG:NH1	3:M:921:VAL:N	2.63	0.47
3:N:750:GLY:O	3:N:751:GLU:C	2.58	0.47
3:O:5:MET:O	3:O:7:PRO:HD2	2.15	0.47
3:P:75:THR:CG2	3:P:76:ALA:N	2.77	0.47
3:P:750:GLY:O	3:P:751:GLU:C	2.58	0.47
1:A:215:PHE:CE1	1:A:241:ILE:HD11	2.49	0.47
1:A:385:ASP:C	1:A:386:SER:O	2.52	0.47
1:A:452:ARG:HH12	1:E:100:ASP:CG	2.23	0.47
1:B:131:MET:SD	1:B:138:MET:HG3	2.55	0.47
1:C:499:PHE:HD1	1:C:505:LEU:CB	2.25	0.47
1:E:544:THR:CG2	1:E:549:ARG:H	2.28	0.47
3:F:75:THR:CG2	3:F:76:ALA:N	2.77	0.47
3:F:101:ASP:CG	3:F:558:HIS:HE2	2.23	0.47
3:G:5:MET:O	3:G:7:PRO:HD2	2.15	0.47
3:G:30:PHE:CZ	3:G:34:THR:HG21	2.50	0.47
3:G:88:GLY:O	3:G:91:ARG:HB2	2.15	0.47
3:I:835:MET:HE3	3:I:836:ARG:HH21	1.80	0.47
3:J:459:MET:HE2	3:K:459:MET:HG3	1.97	0.47
3:J:675:ARG:NH1	3:J:921:VAL:N	2.63	0.47
3:M:717:PHE:HB3	3:M:744:ILE:HD13	1.96	0.47
3:O:574:LEU:HG	3:O:929:ARG:NE	2.27	0.47
3:O:675:ARG:NH1	3:O:921:VAL:N	2.63	0.47
3:P:56:THR:HG22	3:P:57:THR:N	2.30	0.47
1:C:78:ASP:HB2	1:C:82:LEU:HD12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:544:THR:HG22	1:C:549:ARG:H	1.79	0.46
2:W:10:THR:O	2:W:10:THR:CG2	2.60	0.46
3:F:746:ARG:CZ	3:F:753:TYR:HB2	2.45	0.46
3:H:56:THR:HG22	3:H:57:THR:N	2.30	0.46
3:H:241:ASN:HD21	3:H:245:GLY:HA3	1.80	0.46
3:H:427:LYS:HG2	3:H:428:VAL:N	2.29	0.46
3:J:426:THR:N	3:K:267:SER:O	2.39	0.46
3:K:379:ARG:HD2	3:K:379:ARG:HA	1.71	0.46
3:K:835:MET:HE3	3:K:836:ARG:HH21	1.81	0.46
3:L:5:MET:O	3:L:7:PRO:HD2	2.15	0.46
3:L:675:ARG:NH1	3:L:921:VAL:N	2.63	0.46
3:N:304:THR:C	3:N:306:LYS:H	2.24	0.46
3:O:426:THR:N	3:P:267:SER:O	2.39	0.46
3:O:750:GLY:O	3:O:751:GLU:C	2.58	0.46
3:O:782:ILE:HD11	3:Q:383:PHE:HB2	1.97	0.46
3:Q:30:PHE:CZ	3:Q:34:THR:HG21	2.51	0.46
3:Q:56:THR:HG22	3:Q:57:THR:N	2.30	0.46
3:Q:717:PHE:HB3	3:Q:744:ILE:HD13	1.96	0.46
1:A:142:LYS:HG2	1:A:169:THR:HG22	1.97	0.46
1:B:132:PRO:CA	1:B:175:TYR:OH	2.53	0.46
1:B:463:VAL:HB	1:B:529:LEU:CD1	2.44	0.46
1:B:490:THR:HG22	1:C:481:VAL:CG1	2.45	0.46
1:E:239:ASP:HB3	1:E:407:TYR:HB2	1.96	0.46
1:E:449:VAL:HG12	1:E:450:THR:HG23	1.97	0.46
3:F:459:MET:HE2	3:G:459:MET:HG3	1.97	0.46
3:F:835:MET:HE3	3:F:836:ARG:HH21	1.80	0.46
3:G:835:MET:HE3	3:G:836:ARG:HH21	1.80	0.46
3:H:30:PHE:CZ	3:H:34:THR:HG21	2.50	0.46
3:H:319:MET:HG2	3:H:320:PRO:HD2	1.95	0.46
3:I:918:LEU:N	3:I:918:LEU:CD2	2.79	0.46
3:J:30:PHE:CZ	3:J:34:THR:HG21	2.51	0.46
3:K:5:MET:O	3:K:7:PRO:HD2	2.15	0.46
3:L:426:THR:N	3:M:267:SER:O	2.39	0.46
3:L:924:VAL:CG1	3:L:925:VAL:N	2.79	0.46
3:M:413:CYS:HG	3:M:459:MET:HB2	1.80	0.46
3:O:835:MET:HE3	3:O:836:ARG:HH21	1.80	0.46
3:P:5:MET:O	3:P:7:PRO:HD2	2.15	0.46
3:P:101:ASP:CG	3:P:558:HIS:HE2	2.23	0.46
3:Q:864:LEU:HD12	3:Q:864:LEU:HA	1.70	0.46
3:Q:924:VAL:CG1	3:Q:925:VAL:N	2.79	0.46
1:A:295:SER:CB	1:A:377:PRO:HG2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:434:SER:N	1:E:555:TYR:HE2	2.14	0.46
1:B:78:ASP:HB2	1:B:82:LEU:HD12	1.97	0.46
1:D:228:PRO:HG3	2:U:15:TYR:CD1	2.49	0.46
1:D:479:GLN:OE1	1:D:479:GLN:HA	2.16	0.46
1:E:487:ARG:CZ	1:E:507:ARG:HH22	2.28	0.46
2:S:15:TYR:CD2	2:S:16:PRO:HD2	2.51	0.46
3:F:924:VAL:CG1	3:F:925:VAL:N	2.79	0.46
3:G:298:HIS:ND1	3:G:321:ASN:OD1	2.48	0.46
3:G:428:VAL:CG1	3:G:429:LYS:N	2.78	0.46
3:G:918:LEU:N	3:G:918:LEU:CD2	2.78	0.46
3:H:5:MET:O	3:H:7:PRO:HD2	2.15	0.46
3:H:304:THR:C	3:H:306:LYS:H	2.23	0.46
3:I:134:TRP:O	3:I:165:THR:HA	2.16	0.46
3:I:916:TYR:CE1	3:I:918:LEU:CD2	2.99	0.46
3:J:56:THR:HG22	3:J:57:THR:N	2.30	0.46
3:J:304:THR:C	3:J:306:LYS:H	2.24	0.46
3:J:924:VAL:CG1	3:J:925:VAL:N	2.78	0.46
3:K:88:GLY:O	3:K:91:ARG:HB2	2.15	0.46
3:K:574:LEU:HG	3:K:929:ARG:NE	2.27	0.46
3:K:675:ARG:NH1	3:K:921:VAL:N	2.63	0.46
3:K:691:GLY:O	3:K:692:SER:HB3	2.16	0.46
3:M:835:MET:HE3	3:M:836:ARG:HH21	1.80	0.46
3:N:56:THR:CG2	3:N:57:THR:N	2.79	0.46
3:O:428:VAL:CG1	3:O:429:LYS:N	2.78	0.46
3:P:371:LEU:HD12	3:P:646:LEU:HD13	1.97	0.46
3:P:459:MET:HE2	3:Q:459:MET:HG3	1.97	0.46
3:P:916:TYR:CE1	3:P:918:LEU:CD2	2.99	0.46
3:Q:916:TYR:CE1	3:Q:918:LEU:CD2	2.99	0.46
1:B:289:VAL:HG13	1:B:290:ASP:N	2.30	0.46
1:B:560:ILE:HD11	1:C:465:ALA:HB3	1.97	0.46
1:D:295:SER:CB	1:D:377:PRO:HG2	2.46	0.46
1:E:454:THR:OG1	1:E:455:SER:N	2.49	0.46
3:F:839:GLN:HB3	3:H:172:PRO:HG3	1.98	0.46
3:G:241:ASN:HD21	3:G:245:GLY:HA3	1.80	0.46
3:H:56:THR:CG2	3:H:57:THR:N	2.79	0.46
3:H:835:MET:HE3	3:H:836:ARG:HH21	1.80	0.46
3:I:352:SER:C	3:I:354:LEU:H	2.22	0.46
3:J:101:ASP:CG	3:J:558:HIS:HE2	2.23	0.46
3:L:361:GLN:HG3	3:O:740:ASN:ND2	2.31	0.46
3:L:717:PHE:HB3	3:L:744:ILE:HD13	1.96	0.46
3:M:59:ARG:NH1	3:M:623:HIS:HB2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:371:LEU:HD12	3:M:646:LEU:HD13	1.98	0.46
3:N:691:GLY:O	3:N:692:SER:HB3	2.16	0.46
3:N:717:PHE:HB3	3:N:744:ILE:HD13	1.96	0.46
3:N:918:LEU:N	3:N:918:LEU:CD2	2.78	0.46
1:A:67:THR:CG2	1:B:449:VAL:CG2	2.94	0.46
1:A:267:PHE:CZ	1:E:88:HIS:CD2	3.04	0.46
1:A:277:ASP:O	1:A:279:GLU:N	2.46	0.46
1:B:228:PRO:CB	2:S:15:TYR:HE1	2.28	0.46
1:C:463:VAL:HB	1:C:529:LEU:CD1	2.45	0.46
2:W:15:TYR:C	2:W:15:TYR:CD2	2.92	0.46
3:F:183:ILE:HD13	3:F:219:ALA:HB2	1.98	0.46
3:F:383:PHE:HB2	3:G:782:ILE:HD11	1.96	0.46
3:H:675:ARG:NH1	3:H:921:VAL:N	2.63	0.46
3:H:746:ARG:CZ	3:H:753:TYR:HB2	2.46	0.46
3:I:183:ILE:HD13	3:I:219:ALA:HB2	1.98	0.46
3:I:427:LYS:HG2	3:I:428:VAL:N	2.29	0.46
3:I:459:MET:HE2	3:J:459:MET:HG3	1.97	0.46
3:I:924:VAL:CG1	3:I:925:VAL:N	2.79	0.46
3:J:789:ARG:H	3:J:789:ARG:HG2	1.66	0.46
3:K:59:ARG:NH1	3:K:623:HIS:HB2	2.31	0.46
3:K:304:THR:C	3:K:306:LYS:H	2.24	0.46
3:K:427:LYS:HG2	3:K:428:VAL:N	2.29	0.46
3:K:596:LEU:HD12	3:K:596:LEU:HA	1.68	0.46
3:M:574:LEU:HG	3:M:929:ARG:NE	2.27	0.46
3:M:924:VAL:CG1	3:M:925:VAL:N	2.79	0.46
3:O:134:TRP:O	3:O:165:THR:HA	2.16	0.46
3:O:924:VAL:CG1	3:O:925:VAL:N	2.79	0.46
3:P:134:TRP:O	3:P:165:THR:HA	2.16	0.46
3:P:204:GLN:H	3:P:204:GLN:HG3	1.34	0.46
3:P:379:ARG:HD2	3:P:379:ARG:HA	1.72	0.46
3:P:918:LEU:N	3:P:918:LEU:CD2	2.78	0.46
3:Q:134:TRP:O	3:Q:165:THR:HA	2.16	0.46
1:A:454:THR:OG1	1:A:455:SER:N	2.49	0.46
1:A:555:TYR:HE2	1:B:434:SER:N	2.14	0.46
1:B:142:LYS:O	1:B:143:PHE:HB3	2.14	0.46
1:C:131:MET:SD	1:C:138:MET:HG3	2.55	0.46
1:C:479:GLN:OE1	1:C:479:GLN:HA	2.16	0.46
3:F:30:PHE:CZ	3:F:34:THR:HG21	2.51	0.46
3:F:782:ILE:HD11	3:H:383:PHE:HB2	1.97	0.46
3:G:750:GLY:O	3:G:751:GLU:C	2.58	0.46
3:H:183:ILE:HD13	3:H:219:ALA:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:750:GLY:O	3:H:751:GLU:C	2.58	0.46
3:H:916:TYR:CE1	3:H:918:LEU:CD2	2.99	0.46
3:H:924:VAL:CG1	3:H:925:VAL:N	2.78	0.46
3:I:241:ASN:HD21	3:I:245:GLY:HA3	1.80	0.46
3:J:134:TRP:O	3:J:165:THR:HA	2.16	0.46
3:J:172:PRO:HG3	3:K:839:GLN:HB3	1.98	0.46
3:J:916:TYR:CE1	3:J:918:LEU:CD2	2.99	0.46
3:J:918:LEU:N	3:J:918:LEU:CD2	2.78	0.46
3:K:371:LEU:HD12	3:K:646:LEU:HD13	1.98	0.46
3:M:427:LYS:HG2	3:M:428:VAL:N	2.29	0.46
3:M:746:ARG:CZ	3:M:753:TYR:HB2	2.45	0.46
3:N:675:ARG:NH1	3:N:921:VAL:N	2.63	0.46
3:N:835:MET:HE3	3:N:836:ARG:HH21	1.80	0.46
3:O:361:GLN:HE22	3:O:691:GLY:HA2	1.79	0.46
3:O:864:LEU:HD12	3:O:864:LEU:HA	1.70	0.46
3:P:56:THR:CG2	3:P:57:THR:N	2.79	0.46
3:P:183:ILE:HD13	3:P:219:ALA:HB2	1.98	0.46
3:P:789:ARG:H	3:P:789:ARG:HG2	1.67	0.46
3:Q:304:THR:C	3:Q:306:LYS:H	2.24	0.46
1:A:267:PHE:CZ	1:E:88:HIS:HD2	2.34	0.46
1:A:289:VAL:HG13	1:A:290:ASP:N	2.30	0.46
1:B:87:ASP:O	1:B:89:SER:N	2.46	0.46
1:B:239:ASP:HB3	1:B:407:TYR:HB2	1.96	0.46
1:B:487:ARG:CZ	1:B:507:ARG:HH22	2.28	0.46
1:C:171:PRO:HA	1:D:411:ASN:HD22	1.79	0.46
1:C:207:GLY:O	1:C:208:VAL:CB	2.64	0.46
1:C:436:GLN:NE2	1:C:438:TYR:CE2	2.81	0.46
1:D:243:LEU:HD23	1:D:243:LEU:HA	1.82	0.46
1:E:436:GLN:NE2	1:E:438:TYR:CE2	2.81	0.46
1:E:476:TYR:HD1	1:E:513:ILE:HD11	1.80	0.46
3:F:56:THR:HG22	3:F:57:THR:N	2.30	0.46
3:F:371:LEU:HD12	3:F:646:LEU:HD13	1.98	0.46
3:G:56:THR:HG22	3:G:57:THR:N	2.30	0.46
3:G:89:ASP:O	3:G:90:ASN:HB2	2.16	0.46
3:G:426:THR:N	3:H:267:SER:O	2.39	0.46
3:H:59:ARG:NH1	3:H:623:HIS:HB2	2.31	0.46
3:I:56:THR:HG22	3:I:57:THR:N	2.30	0.46
3:J:183:ILE:HD13	3:J:219:ALA:HB2	1.98	0.46
3:K:30:PHE:CZ	3:K:34:THR:HG21	2.50	0.46
3:M:30:PHE:CZ	3:M:34:THR:HG21	2.50	0.46
3:P:89:ASP:O	3:P:90:ASN:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:177:ASN:HA	3:P:217:HIS:CG	2.51	0.46
3:P:835:MET:HE3	3:P:836:ARG:HH21	1.80	0.46
3:Q:858:ILE:HD12	3:Q:858:ILE:HA	1.84	0.46
1:A:68:ARG:NH1	1:A:68:ARG:CG	2.67	0.46
1:A:96:ILE:O	1:B:450:THR:HB	2.15	0.46
1:A:479:GLN:OE1	1:A:479:GLN:HA	2.16	0.46
1:A:544:THR:HG22	1:A:549:ARG:H	1.80	0.46
1:D:250:PHE:O	1:D:252:HIS:N	2.49	0.46
1:E:479:GLN:HA	1:E:479:GLN:OE1	2.16	0.46
3:G:675:ARG:NH1	3:G:921:VAL:N	2.63	0.46
3:I:675:ARG:NH1	3:I:921:VAL:N	2.63	0.46
3:K:177:ASN:HA	3:K:217:HIS:CG	2.51	0.46
3:L:56:THR:HG22	3:L:57:THR:N	2.30	0.46
3:L:459:MET:HG3	3:N:459:MET:HE2	1.97	0.46
3:L:552:GLY:N	3:M:803:GLN:OE1	2.43	0.46
3:L:654:PRO:HA	3:L:914:LEU:HD23	1.98	0.46
3:L:835:MET:HE3	3:L:836:ARG:HH21	1.80	0.46
3:M:177:ASN:HA	3:M:217:HIS:CG	2.51	0.46
3:M:428:VAL:CG1	3:M:429:LYS:N	2.78	0.46
3:M:918:LEU:N	3:M:918:LEU:CD2	2.78	0.46
3:N:56:THR:HG22	3:N:57:THR:N	2.30	0.46
3:N:89:ASP:O	3:N:90:ASN:HB2	2.16	0.46
3:O:839:GLN:HB3	3:Q:172:PRO:HG3	1.98	0.46
3:P:59:ARG:NH1	3:P:623:HIS:HB2	2.31	0.46
3:P:924:VAL:CG1	3:P:925:VAL:N	2.78	0.46
3:Q:177:ASN:HA	3:Q:217:HIS:CG	2.51	0.46
3:Q:241:ASN:HD21	3:Q:245:GLY:HA3	1.80	0.46
3:Q:675:ARG:NH1	3:Q:921:VAL:N	2.63	0.46
1:B:171:PRO:O	1:B:172:GLU:C	2.59	0.46
1:B:250:PHE:O	1:B:252:HIS:N	2.49	0.46
1:B:295:SER:CB	1:B:377:PRO:HG2	2.46	0.46
1:B:468:LEU:HA	1:B:469:PRO:HD3	1.78	0.46
1:E:78:ASP:HB2	1:E:82:LEU:HD12	1.97	0.46
2:U:15:TYR:CD2	2:U:16:PRO:HD2	2.51	0.46
3:F:56:THR:CG2	3:F:57:THR:N	2.79	0.46
3:G:924:VAL:CG1	3:G:925:VAL:N	2.78	0.46
3:I:374:ASP:OD2	3:I:789:ARG:HB2	2.16	0.46
3:J:371:LEU:HD12	3:J:646:LEU:HD13	1.98	0.46
3:K:56:THR:HG22	3:K:57:THR:N	2.30	0.46
3:K:916:TYR:CE1	3:K:918:LEU:CD2	2.99	0.46
3:L:30:PHE:CZ	3:L:34:THR:HG21	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:204:GLN:H	3:L:204:GLN:HG3	1.34	0.46
3:L:374:ASP:OD2	3:L:789:ARG:HB2	2.16	0.46
3:L:818:ILE:H	3:L:818:ILE:HG13	1.47	0.46
3:M:5:MET:O	3:M:7:PRO:HD2	2.15	0.46
3:M:56:THR:HG22	3:M:57:THR:N	2.30	0.46
3:M:304:THR:C	3:M:306:LYS:H	2.24	0.46
3:M:374:ASP:OD2	3:M:789:ARG:HB2	2.16	0.46
3:N:30:PHE:CZ	3:N:34:THR:HG21	2.50	0.46
3:N:101:ASP:CG	3:N:558:HIS:HE2	2.23	0.46
3:N:183:ILE:HD13	3:N:219:ALA:HB2	1.98	0.46
3:O:172:PRO:HG3	3:P:839:GLN:HB3	1.98	0.46
3:O:241:ASN:HD21	3:O:245:GLY:HA3	1.80	0.46
3:Q:89:ASP:O	3:Q:90:ASN:HB2	2.16	0.46
3:Q:112:PHE:CE2	3:Q:114:PRO:HG3	2.51	0.46
3:Q:690:LEU:C	3:Q:692:SER:H	2.24	0.46
1:A:217:LEU:HD23	1:A:217:LEU:HA	1.74	0.46
1:A:449:VAL:HG12	1:A:450:THR:HG23	1.97	0.46
1:A:487:ARG:CZ	1:A:507:ARG:HH22	2.29	0.46
1:C:231:TYR:CD1	1:C:503:GLN:HB3	2.50	0.46
1:C:454:THR:OG1	1:C:455:SER:N	2.49	0.46
1:C:544:THR:CG2	1:C:549:ARG:H	2.28	0.46
1:C:547:ARG:O	1:C:548:ARG:HB2	2.16	0.46
1:D:123:LEU:HD13	1:D:561:VAL:HG22	1.98	0.46
1:D:295:SER:HB3	1:D:377:PRO:HG2	1.98	0.46
1:E:131:MET:SD	1:E:138:MET:HG3	2.55	0.46
1:E:142:LYS:HG2	1:E:169:THR:HG22	1.97	0.46
3:F:177:ASN:HA	3:F:217:HIS:CG	2.51	0.46
3:H:374:ASP:OD2	3:H:789:ARG:HB2	2.16	0.46
3:H:691:GLY:O	3:H:692:SER:HB3	2.16	0.46
3:H:918:LEU:N	3:H:918:LEU:CD2	2.79	0.46
3:I:56:THR:CG2	3:I:57:THR:N	2.79	0.46
3:I:112:PHE:CE2	3:I:114:PRO:HG3	2.51	0.46
3:J:112:PHE:CE2	3:J:114:PRO:HG3	2.51	0.46
3:J:177:ASN:HA	3:J:217:HIS:CG	2.51	0.46
3:J:654:PRO:HA	3:J:914:LEU:HD23	1.98	0.46
3:K:56:THR:CG2	3:K:57:THR:N	2.79	0.46
3:K:89:ASP:O	3:K:90:ASN:HB2	2.16	0.46
3:K:112:PHE:CE2	3:K:114:PRO:HG3	2.51	0.46
3:K:750:GLY:O	3:K:751:GLU:C	2.58	0.46
3:L:59:ARG:NH1	3:L:623:HIS:HB2	2.31	0.46
3:L:177:ASN:HA	3:L:217:HIS:CG	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:241:ASN:HD21	3:L:245:GLY:HA3	1.80	0.46
3:L:691:GLY:O	3:L:692:SER:HB3	2.16	0.46
3:L:916:TYR:CE1	3:L:918:LEU:CD2	2.99	0.46
3:N:134:TRP:O	3:N:165:THR:HA	2.16	0.46
3:O:371:LEU:HD12	3:O:646:LEU:HD13	1.98	0.46
3:O:918:LEU:N	3:O:918:LEU:CD2	2.79	0.46
3:P:30:PHE:CZ	3:P:34:THR:HG21	2.51	0.46
3:P:172:PRO:HG3	3:Q:839:GLN:HB3	1.98	0.46
3:P:675:ARG:NH1	3:P:921:VAL:N	2.63	0.46
1:A:171:PRO:HA	1:B:411:ASN:HD22	1.80	0.45
1:A:463:VAL:HB	1:A:529:LEU:CD1	2.45	0.45
1:C:250:PHE:O	1:C:252:HIS:N	2.49	0.45
1:D:142:LYS:HG2	1:D:169:THR:HG22	1.97	0.45
1:E:277:ASP:O	1:E:279:GLU:N	2.46	0.45
1:E:441:LEU:N	1:E:442:PRO:CD	2.79	0.45
3:F:267:SER:O	3:H:426:THR:N	2.39	0.45
3:G:459:MET:HE2	3:H:459:MET:HG3	1.97	0.45
3:G:654:PRO:HA	3:G:914:LEU:HD23	1.98	0.45
3:H:134:TRP:O	3:H:165:THR:HA	2.16	0.45
3:I:746:ARG:CZ	3:I:753:TYR:HB2	2.45	0.45
3:I:839:GLN:HB3	3:K:172:PRO:HG3	1.98	0.45
3:J:691:GLY:O	3:J:692:SER:HB3	2.16	0.45
3:J:750:GLY:O	3:J:751:GLU:C	2.58	0.45
3:L:428:VAL:CG1	3:L:429:LYS:N	2.78	0.45
3:L:839:GLN:HB3	3:N:172:PRO:HG3	1.98	0.45
3:M:459:MET:HE2	3:N:459:MET:HG3	1.97	0.45
3:N:924:VAL:CG1	3:N:925:VAL:N	2.78	0.45
3:O:304:THR:C	3:O:306:LYS:H	2.24	0.45
3:Q:691:GLY:O	3:Q:692:SER:HB3	2.16	0.45
3:Q:750:GLY:O	3:Q:751:GLU:C	2.58	0.45
1:A:237:HIS:HE1	1:A:426:CYS:O	2.00	0.45
1:A:295:SER:HB3	1:A:377:PRO:HG2	1.98	0.45
1:A:547:ARG:O	1:A:548:ARG:HB2	2.16	0.45
1:B:123:LEU:HD13	1:B:561:VAL:HG22	1.98	0.45
1:B:231:TYR:CD1	1:B:503:GLN:HB3	2.51	0.45
1:B:237:HIS:HE1	1:B:426:CYS:O	2.00	0.45
1:B:441:LEU:N	1:B:442:PRO:CD	2.79	0.45
1:B:454:THR:OG1	1:B:455:SER:N	2.49	0.45
1:B:479:GLN:HA	1:B:479:GLN:OE1	2.16	0.45
1:D:231:TYR:CD1	1:D:503:GLN:HB3	2.51	0.45
1:E:231:TYR:CD1	1:E:503:GLN:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:237:HIS:HE1	1:E:426:CYS:O	2.00	0.45
3:F:789:ARG:H	3:F:789:ARG:HG2	1.67	0.45
3:I:101:ASP:CG	3:I:558:HIS:HE2	2.22	0.45
3:I:304:THR:C	3:I:306:LYS:H	2.24	0.45
3:I:413:CYS:HG	3:I:459:MET:HB2	1.82	0.45
3:K:918:LEU:N	3:K:918:LEU:CD2	2.78	0.45
3:M:134:TRP:O	3:M:165:THR:HA	2.16	0.45
3:N:59:ARG:NH1	3:N:623:HIS:HB2	2.31	0.45
3:N:177:ASN:HA	3:N:217:HIS:CG	2.51	0.45
3:N:916:TYR:CE1	3:N:918:LEU:CD2	2.99	0.45
3:O:56:THR:HG22	3:O:57:THR:N	2.30	0.45
3:O:59:ARG:NH1	3:O:623:HIS:HB2	2.31	0.45
3:O:916:TYR:CE1	3:O:918:LEU:CD2	2.99	0.45
3:P:690:LEU:C	3:P:692:SER:H	2.24	0.45
1:A:242:LEU:HD22	1:A:247:GLY:HA2	1.98	0.45
1:B:449:VAL:HG12	1:B:450:THR:HG23	1.97	0.45
1:C:223:THR:HG22	1:C:225:LEU:HB2	1.99	0.45
1:C:237:HIS:HE1	1:C:426:CYS:O	2.00	0.45
1:C:243:LEU:O	1:C:244:PRO:C	2.59	0.45
1:C:295:SER:HB3	1:C:377:PRO:HG2	1.98	0.45
1:C:487:ARG:CZ	1:C:507:ARG:HH22	2.28	0.45
1:D:237:HIS:HE1	1:D:426:CYS:O	2.00	0.45
1:D:441:LEU:N	1:D:442:PRO:CD	2.79	0.45
1:D:487:ARG:CZ	1:D:507:ARG:HH22	2.28	0.45
1:E:242:LEU:HD22	1:E:247:GLY:HA2	1.98	0.45
2:T:15:TYR:CD2	2:T:16:PRO:HD2	2.51	0.45
3:G:59:ARG:NH1	3:G:623:HIS:HB2	2.31	0.45
3:G:177:ASN:HA	3:G:217:HIS:CG	2.51	0.45
3:G:786:TYR:CE2	3:G:787:LYS:HE3	2.52	0.45
3:H:89:ASP:O	3:H:90:ASN:HB2	2.16	0.45
3:H:204:GLN:H	3:H:204:GLN:HG3	1.34	0.45
3:H:786:TYR:CE2	3:H:787:LYS:HE3	2.52	0.45
3:I:428:VAL:HG13	3:I:429:LYS:N	2.32	0.45
3:J:298:HIS:ND1	3:J:321:ASN:OD1	2.48	0.45
3:K:134:TRP:O	3:K:165:THR:HA	2.16	0.45
3:L:56:THR:CG2	3:L:57:THR:N	2.79	0.45
3:L:134:TRP:O	3:L:165:THR:HA	2.16	0.45
3:L:183:ILE:HD13	3:L:219:ALA:HB2	1.98	0.45
3:O:56:THR:CG2	3:O:57:THR:N	2.79	0.45
3:O:374:ASP:OD2	3:O:789:ARG:HB2	2.16	0.45
3:P:374:ASP:OD2	3:P:789:ARG:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:746:ARG:CZ	3:P:753:TYR:HB2	2.45	0.45
3:Q:428:VAL:CG1	3:Q:429:LYS:N	2.78	0.45
3:Q:789:ARG:H	3:Q:789:ARG:HG2	1.66	0.45
1:B:243:LEU:HD21	1:B:403:TYR:CE2	2.51	0.45
1:C:64:PHE:O	1:C:65:ASP:HB2	2.17	0.45
1:E:295:SER:CB	1:E:377:PRO:HG2	2.46	0.45
1:E:493:THR:HG23	2:W:15:TYR:CZ	2.52	0.45
3:F:428:VAL:HG13	3:F:429:LYS:N	2.32	0.45
3:G:134:TRP:O	3:G:165:THR:HA	2.16	0.45
3:G:373:LEU:HD23	3:G:373:LEU:HA	1.77	0.45
3:I:750:GLY:O	3:I:751:GLU:C	2.58	0.45
3:J:59:ARG:NH1	3:J:623:HIS:HB2	2.31	0.45
3:M:172:PRO:HG3	3:N:839:GLN:HB3	1.98	0.45
3:M:428:VAL:HG13	3:M:429:LYS:N	2.32	0.45
3:O:746:ARG:CZ	3:O:753:TYR:HB2	2.45	0.45
3:O:786:TYR:CE2	3:O:787:LYS:HE3	2.52	0.45
3:Q:56:THR:CG2	3:Q:57:THR:N	2.79	0.45
3:Q:59:ARG:NH1	3:Q:623:HIS:HB2	2.31	0.45
3:Q:428:VAL:HG13	3:Q:429:LYS:N	2.32	0.45
1:A:231:TYR:CD1	1:A:503:GLN:HB3	2.51	0.45
1:A:243:LEU:HD21	1:A:403:TYR:CE2	2.51	0.45
1:A:508:PRO:HA	1:A:509:PRO:HD3	1.81	0.45
1:B:177:GLU:CG	1:B:178:THR:H	2.30	0.45
1:C:295:SER:CB	1:C:377:PRO:HG2	2.46	0.45
1:C:441:LEU:N	1:C:442:PRO:CD	2.79	0.45
1:D:68:ARG:NH1	1:D:68:ARG:CG	2.67	0.45
1:D:83:ASN:CA	1:D:86:ASN:HD22	2.21	0.45
1:D:171:PRO:O	1:D:172:GLU:C	2.59	0.45
1:E:177:GLU:CG	1:E:178:THR:H	2.30	0.45
1:E:243:LEU:HD21	1:E:403:TYR:CE2	2.51	0.45
3:G:218:ALA:HB3	3:G:283:VAL:CG2	2.37	0.45
3:G:304:THR:C	3:G:306:LYS:H	2.24	0.45
3:G:916:TYR:CE1	3:G:918:LEU:CD2	2.99	0.45
3:H:654:PRO:HA	3:H:914:LEU:HD23	1.99	0.45
3:I:172:PRO:HG3	3:J:839:GLN:HB3	1.98	0.45
3:I:177:ASN:HA	3:I:217:HIS:CG	2.51	0.45
3:I:691:GLY:O	3:I:692:SER:HB3	2.16	0.45
3:J:486:TYR:O	3:J:507:VAL:HG13	2.17	0.45
3:L:112:PHE:CE2	3:L:114:PRO:HG3	2.51	0.45
3:L:786:TYR:CE2	3:L:787:LYS:HE3	2.52	0.45
3:N:374:ASP:OD2	3:N:789:ARG:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:298:HIS:ND1	3:O:321:ASN:OD1	2.48	0.45
3:O:654:PRO:HA	3:O:914:LEU:HD23	1.98	0.45
3:P:241:ASN:HD21	3:P:245:GLY:HA3	1.80	0.45
3:P:428:VAL:HG13	3:P:429:LYS:N	2.32	0.45
3:Q:786:TYR:CE2	3:Q:787:LYS:HE3	2.52	0.45
1:A:493:THR:HG23	2:S:15:TYR:CZ	2.52	0.45
1:C:243:LEU:HD21	1:C:403:TYR:CE2	2.51	0.45
1:D:243:LEU:O	1:D:244:PRO:C	2.59	0.45
1:D:243:LEU:HD21	1:D:403:TYR:CE2	2.51	0.45
1:D:547:ARG:O	1:D:548:ARG:HB2	2.16	0.45
2:V:15:TYR:CD2	2:V:16:PRO:HD2	2.51	0.45
2:W:15:TYR:CD2	2:W:16:PRO:HD2	2.51	0.45
3:F:330:ASP:O	3:F:333:ILE:HG13	2.17	0.45
3:F:374:ASP:OD2	3:F:789:ARG:HB2	2.16	0.45
3:F:486:TYR:O	3:F:507:VAL:HG13	2.17	0.45
3:F:786:TYR:CE2	3:F:787:LYS:HE3	2.52	0.45
3:F:918:LEU:N	3:F:918:LEU:CD2	2.79	0.45
3:G:172:PRO:HG3	3:H:839:GLN:HB3	1.98	0.45
3:G:374:ASP:OD2	3:G:789:ARG:HB2	2.16	0.45
3:G:574:LEU:HG	3:G:929:ARG:NE	2.27	0.45
3:G:596:LEU:HD12	3:G:596:LEU:HA	1.68	0.45
3:G:746:ARG:CZ	3:G:753:TYR:HB2	2.45	0.45
3:H:177:ASN:HA	3:H:217:HIS:CG	2.51	0.45
3:I:330:ASP:O	3:I:333:ILE:HG13	2.17	0.45
3:J:835:MET:HE3	3:J:836:ARG:HH21	1.80	0.45
3:K:690:LEU:C	3:K:692:SER:H	2.24	0.45
3:K:755:VAL:CG2	3:K:756:ALA:H	2.29	0.45
3:K:858:ILE:HD12	3:K:858:ILE:HA	1.84	0.45
3:M:112:PHE:CE2	3:M:114:PRO:HG3	2.51	0.45
3:M:691:GLY:O	3:M:692:SER:HB3	2.16	0.45
3:N:112:PHE:CE2	3:N:114:PRO:HG3	2.51	0.45
3:N:371:LEU:HD12	3:N:646:LEU:HD13	1.98	0.45
3:P:551:ASN:HB3	3:Q:521:ALA:HB2	1.99	0.45
3:Q:298:HIS:ND1	3:Q:321:ASN:OD1	2.48	0.45
1:A:177:GLU:CG	1:A:178:THR:H	2.30	0.45
1:A:250:PHE:O	1:A:252:HIS:N	2.49	0.45
1:A:436:GLN:NE2	1:A:438:TYR:CE2	2.81	0.45
1:A:444:MET:CE	1:A:561:VAL:HG21	2.28	0.45
1:B:225:LEU:CD2	1:B:399:THR:HB	2.47	0.45
1:C:123:LEU:HD13	1:C:561:VAL:HG22	1.98	0.45
1:D:64:PHE:O	1:D:65:ASP:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:78:ASP:HB2	1:D:82:LEU:HD12	1.97	0.45
1:D:223:THR:HG22	1:D:225:LEU:HB2	1.99	0.45
1:D:454:THR:OG1	1:D:455:SER:N	2.49	0.45
1:E:243:LEU:HD23	1:E:243:LEU:HA	1.82	0.45
1:E:419:ILE:HD12	1:E:419:ILE:HA	1.79	0.45
3:F:134:TRP:O	3:F:165:THR:HA	2.16	0.45
3:F:916:TYR:CE1	3:F:918:LEU:CD2	2.99	0.45
3:G:101:ASP:CG	3:G:558:HIS:HE2	2.23	0.45
3:I:690:LEU:C	3:I:692:SER:H	2.25	0.45
3:I:786:TYR:CE2	3:I:787:LYS:HE3	2.52	0.45
3:K:786:TYR:CE2	3:K:787:LYS:HE3	2.52	0.45
3:K:924:VAL:CG1	3:K:925:VAL:N	2.79	0.45
3:L:101:ASP:CG	3:L:558:HIS:HE2	2.22	0.45
3:L:172:PRO:HG3	3:M:839:GLN:HB3	1.98	0.45
3:L:486:TYR:O	3:L:507:VAL:HG13	2.17	0.45
3:M:56:THR:CG2	3:M:57:THR:N	2.79	0.45
3:M:690:LEU:C	3:M:692:SER:H	2.24	0.45
3:N:654:PRO:HA	3:N:914:LEU:HD23	1.99	0.45
3:N:746:ARG:CZ	3:N:753:TYR:HB2	2.45	0.45
3:O:112:PHE:CE2	3:O:114:PRO:HG3	2.51	0.45
3:O:177:ASN:HA	3:O:217:HIS:CG	2.51	0.45
3:O:428:VAL:HG13	3:O:429:LYS:N	2.32	0.45
3:P:574:LEU:HG	3:P:929:ARG:NE	2.27	0.45
1:A:171:PRO:CA	1:B:411:ASN:HD22	2.30	0.45
1:B:223:THR:HG22	1:B:225:LEU:HB2	1.99	0.45
1:C:278:LEU:C	1:C:279:GLU:O	2.60	0.45
1:C:449:VAL:HG12	1:C:450:THR:HG23	1.97	0.45
1:D:207:GLY:O	1:D:208:VAL:CB	2.64	0.45
1:D:250:PHE:O	1:D:251:THR:C	2.60	0.45
1:E:278:LEU:C	1:E:279:GLU:O	2.60	0.45
3:F:59:ARG:NH1	3:F:623:HIS:HB2	2.31	0.45
3:F:112:PHE:CE2	3:F:114:PRO:HG3	2.51	0.45
3:F:172:PRO:HG3	3:G:839:GLN:HB3	1.98	0.45
3:F:864:LEU:HD12	3:F:864:LEU:HA	1.70	0.45
3:G:112:PHE:CE2	3:G:114:PRO:HG3	2.51	0.45
3:G:371:LEU:HD12	3:G:646:LEU:HD13	1.98	0.45
3:H:428:VAL:HG13	3:H:429:LYS:N	2.32	0.45
3:H:690:LEU:C	3:H:692:SER:H	2.24	0.45
3:I:89:ASP:O	3:I:90:ASN:HB2	2.17	0.45
3:I:371:LEU:HD12	3:I:646:LEU:HD13	1.98	0.45
3:I:521:ALA:HB2	3:K:551:ASN:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:428:VAL:CG1	3:J:429:LYS:N	2.78	0.45
3:J:755:VAL:CG2	3:J:756:ALA:H	2.29	0.45
3:K:183:ILE:HD13	3:K:219:ALA:HB2	1.98	0.45
3:K:241:ASN:HD21	3:K:245:GLY:HA3	1.80	0.45
3:K:548:LEU:HD12	3:K:548:LEU:HA	1.76	0.45
3:L:750:GLY:O	3:L:751:GLU:C	2.58	0.45
3:M:551:ASN:HB3	3:N:521:ALA:HB2	1.99	0.45
3:N:786:TYR:CE2	3:N:787:LYS:HE3	2.52	0.45
3:O:183:ILE:HD13	3:O:219:ALA:HB2	1.98	0.45
3:P:691:GLY:O	3:P:692:SER:HB3	2.16	0.45
3:Q:183:ILE:HD13	3:Q:219:ALA:HB2	1.98	0.45
3:Q:486:TYR:O	3:Q:507:VAL:HG13	2.17	0.45
3:Q:835:MET:HE3	3:Q:836:ARG:HH21	1.80	0.45
1:A:384:GLU:HA	1:A:389:ARG:O	2.17	0.45
1:C:493:THR:HG23	2:U:15:TYR:CZ	2.52	0.45
1:E:64:PHE:O	1:E:65:ASP:HB2	2.17	0.45
1:E:123:LEU:HD13	1:E:561:VAL:HG22	1.98	0.45
3:F:654:PRO:HA	3:F:914:LEU:HD23	1.98	0.45
3:G:56:THR:CG2	3:G:57:THR:N	2.79	0.45
3:H:112:PHE:CE2	3:H:114:PRO:HG3	2.51	0.45
3:H:222:VAL:CG2	3:H:223:LEU:N	2.80	0.45
3:H:755:VAL:CG2	3:H:756:ALA:H	2.29	0.45
3:I:30:PHE:CZ	3:I:34:THR:HG21	2.50	0.45
3:I:59:ARG:NH1	3:I:623:HIS:HB2	2.31	0.45
3:I:551:ASN:HB3	3:J:521:ALA:HB2	1.99	0.45
3:I:574:LEU:HG	3:I:929:ARG:NE	2.27	0.45
3:L:918:LEU:N	3:L:918:LEU:CD2	2.79	0.45
3:M:916:TYR:CE1	3:M:918:LEU:CD2	2.99	0.45
3:N:298:HIS:ND1	3:N:321:ASN:OD1	2.48	0.45
3:O:30:PHE:CZ	3:O:34:THR:HG21	2.51	0.45
3:O:551:ASN:HB3	3:P:521:ALA:HB2	1.99	0.45
3:O:730:TRP:CG	3:O:731:PRO:HA	2.52	0.45
3:P:304:THR:C	3:P:306:LYS:H	2.24	0.45
1:A:64:PHE:O	1:A:65:ASP:HB2	2.17	0.45
1:A:78:ASP:HB2	1:A:82:LEU:HD12	1.97	0.45
1:A:171:PRO:O	1:A:172:GLU:O	2.35	0.45
1:A:231:TYR:H	1:A:503:GLN:HE21	1.65	0.45
1:B:295:SER:HB3	1:B:377:PRO:HG2	1.98	0.45
1:D:177:GLU:CG	1:D:178:THR:H	2.30	0.45
1:D:242:LEU:HD22	1:D:247:GLY:HA2	1.98	0.45
1:D:487:ARG:NH2	1:E:234:GLU:OE1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:171:PRO:O	1:E:172:GLU:C	2.59	0.45
1:E:250:PHE:O	1:E:252:HIS:N	2.49	0.45
3:F:304:THR:C	3:F:306:LYS:H	2.24	0.45
3:G:330:ASP:O	3:G:333:ILE:HG13	2.17	0.45
3:I:428:VAL:CG1	3:I:429:LYS:N	2.78	0.45
3:J:551:ASN:HB3	3:K:521:ALA:HB2	1.99	0.45
3:K:486:TYR:O	3:K:507:VAL:HG13	2.17	0.45
3:K:654:PRO:HA	3:K:914:LEU:HD23	1.99	0.45
3:K:819:LEU:HD23	3:K:819:LEU:HA	1.86	0.45
3:L:89:ASP:O	3:L:90:ASN:HB2	2.17	0.45
3:L:371:LEU:HD12	3:L:646:LEU:HD13	1.98	0.45
3:M:75:THR:HG23	3:M:76:ALA:N	2.32	0.45
3:M:89:ASP:O	3:M:90:ASN:HB2	2.16	0.45
3:O:330:ASP:O	3:O:333:ILE:HG13	2.17	0.45
1:A:63:LEU:HD12	1:B:449:VAL:HA	1.98	0.44
1:B:171:PRO:O	1:B:172:GLU:O	2.35	0.44
1:B:250:PHE:O	1:B:251:THR:C	2.60	0.44
1:B:460:PHE:O	1:B:548:ARG:NH2	2.50	0.44
1:B:476:TYR:CD1	1:B:513:ILE:CD1	3.00	0.44
1:B:493:THR:HG23	2:T:15:TYR:CZ	2.52	0.44
1:D:79:VAL:HG13	1:E:267:PHE:HB3	1.99	0.44
1:D:231:TYR:H	1:D:503:GLN:HE21	1.65	0.44
1:E:295:SER:HB3	1:E:377:PRO:HG2	1.98	0.44
3:F:222:VAL:CG2	3:F:223:LEU:N	2.80	0.44
3:H:398:ARG:HD3	3:H:533:PRO:HB3	2.00	0.44
3:H:596:LEU:HD12	3:H:596:LEU:HA	1.68	0.44
3:I:222:VAL:CG2	3:I:223:LEU:N	2.80	0.44
3:I:739:PRO:HG3	3:M:341:THR:HG22	1.95	0.44
3:J:89:ASP:O	3:J:90:ASN:HB2	2.16	0.44
3:J:574:LEU:HG	3:J:929:ARG:NE	2.27	0.44
3:K:428:VAL:HG13	3:K:429:LYS:N	2.32	0.44
3:M:786:TYR:CE2	3:M:787:LYS:HE3	2.52	0.44
3:N:74:ASP:OD1	3:N:586:LYS:NZ	2.30	0.44
3:O:89:ASP:O	3:O:90:ASN:HB2	2.17	0.44
3:O:521:ALA:HB2	3:Q:551:ASN:HB3	1.99	0.44
3:O:690:LEU:C	3:O:692:SER:H	2.25	0.44
3:P:112:PHE:CE2	3:P:114:PRO:HG3	2.51	0.44
3:P:426:THR:N	3:Q:267:SER:O	2.39	0.44
3:P:486:TYR:O	3:P:507:VAL:HG13	2.17	0.44
1:A:123:LEU:HD13	1:A:561:VAL:HG22	1.98	0.44
1:A:381:PRO:O	1:A:382:LEU:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:486:ILE:CG2	1:B:482:TYR:HE1	2.21	0.44
1:B:383:THR:O	1:B:383:THR:CG2	2.65	0.44
1:B:384:GLU:HA	1:B:389:ARG:O	2.17	0.44
1:B:448:PRO:HG2	1:B:462:VAL:O	2.17	0.44
1:C:129:THR:HB	1:C:130:ASN:H	1.63	0.44
1:D:383:THR:HG22	1:D:384:GLU:HG3	1.99	0.44
1:D:476:TYR:CD1	1:D:513:ILE:CD1	3.01	0.44
1:D:493:THR:HG23	2:V:15:TYR:CZ	2.52	0.44
3:F:89:ASP:O	3:F:90:ASN:HB2	2.17	0.44
3:F:398:ARG:HD3	3:F:533:PRO:HB3	2.00	0.44
3:F:548:LEU:HD12	3:F:548:LEU:HA	1.76	0.44
3:G:691:GLY:O	3:G:692:SER:HB3	2.16	0.44
3:H:371:LEU:HD12	3:H:646:LEU:HD13	1.98	0.44
3:I:654:PRO:HA	3:I:914:LEU:HD23	1.98	0.44
3:J:505:LYS:O	3:J:506:ARG:C	2.61	0.44
3:J:690:LEU:C	3:J:692:SER:H	2.25	0.44
3:J:786:TYR:CE2	3:J:787:LYS:HE3	2.51	0.44
3:L:428:VAL:HG13	3:L:429:LYS:N	2.32	0.44
3:M:183:ILE:HD13	3:M:219:ALA:HB2	1.98	0.44
3:M:486:TYR:O	3:M:507:VAL:HG13	2.17	0.44
3:M:654:PRO:HA	3:M:914:LEU:HD23	1.98	0.44
3:M:672:ALA:O	3:M:673:ALA:HB3	2.17	0.44
3:M:750:GLY:O	3:M:751:GLU:C	2.58	0.44
3:N:330:ASP:O	3:N:333:ILE:HG13	2.18	0.44
3:N:428:VAL:HG13	3:N:429:LYS:N	2.32	0.44
3:N:690:LEU:C	3:N:692:SER:H	2.24	0.44
3:O:75:THR:HG23	3:O:76:ALA:N	2.32	0.44
3:O:119:ALA:HB2	3:P:519:LEU:HD12	2.00	0.44
3:P:119:ALA:HB2	3:Q:519:LEU:HD12	1.99	0.44
3:Q:672:ALA:O	3:Q:673:ALA:HB3	2.18	0.44
3:Q:918:LEU:N	3:Q:918:LEU:CD2	2.78	0.44
1:A:228:PRO:CB	2:W:15:TYR:HE1	2.30	0.44
1:A:383:THR:HG22	1:A:384:GLU:HG3	1.99	0.44
1:B:381:PRO:O	1:B:382:LEU:C	2.61	0.44
1:C:225:LEU:CD2	1:C:399:THR:HB	2.47	0.44
1:C:381:PRO:O	1:C:382:LEU:C	2.61	0.44
1:C:394:ILE:HG13	1:C:395:SER:N	2.32	0.44
1:E:225:LEU:CD2	1:E:399:THR:HB	2.47	0.44
1:E:483:SER:O	1:E:484:GLN:C	2.59	0.44
3:F:574:LEU:HG	3:F:929:ARG:NE	2.27	0.44
3:G:486:TYR:O	3:G:507:VAL:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:505:LYS:O	3:I:506:ARG:C	2.61	0.44
3:I:672:ALA:O	3:I:673:ALA:HB3	2.18	0.44
3:I:730:TRP:CG	3:I:731:PRO:HA	2.52	0.44
3:I:795:ARG:O	3:I:795:ARG:HG3	2.18	0.44
3:J:57:THR:CG2	3:J:59:ARG:NH1	2.79	0.44
3:J:374:ASP:OD2	3:J:789:ARG:HB2	2.16	0.44
3:K:374:ASP:OD2	3:K:789:ARG:HB2	2.16	0.44
3:K:383:PHE:HB3	3:K:388:GLN:HB3	2.00	0.44
3:K:730:TRP:CG	3:K:731:PRO:HA	2.53	0.44
3:L:755:VAL:CG2	3:L:756:ALA:H	2.29	0.44
3:M:119:ALA:HB2	3:N:519:LEU:HD12	1.99	0.44
3:N:222:VAL:CG2	3:N:223:LEU:N	2.80	0.44
3:O:222:VAL:CG2	3:O:223:LEU:N	2.80	0.44
3:P:298:HIS:ND1	3:P:321:ASN:OD1	2.48	0.44
3:Q:636:ASP:HA	3:Q:639:ASP:OD1	2.18	0.44
1:A:223:THR:HG22	1:A:225:LEU:HB2	1.99	0.44
1:A:476:TYR:CD1	1:A:513:ILE:CD1	3.00	0.44
1:B:79:VAL:HG13	1:C:267:PHE:HD2	1.82	0.44
1:B:231:TYR:H	1:B:503:GLN:HE21	1.65	0.44
1:C:202:LEU:N	1:C:202:LEU:HD23	2.33	0.44
1:C:242:LEU:HD22	1:C:247:GLY:HA2	1.98	0.44
1:C:250:PHE:O	1:C:251:THR:C	2.60	0.44
1:D:448:PRO:HG2	1:D:462:VAL:O	2.17	0.44
1:E:250:PHE:O	1:E:251:THR:C	2.60	0.44
1:E:384:GLU:HA	1:E:389:ARG:O	2.17	0.44
1:E:547:ARG:O	1:E:548:ARG:HB2	2.16	0.44
3:F:413:CYS:HG	3:F:459:MET:HB2	1.81	0.44
3:F:690:LEU:C	3:F:692:SER:H	2.25	0.44
3:G:383:PHE:HB3	3:G:388:GLN:HB3	2.00	0.44
3:K:75:THR:HG23	3:K:76:ALA:N	2.32	0.44
3:M:730:TRP:CG	3:M:731:PRO:HA	2.52	0.44
3:N:746:ARG:HH11	3:N:753:TYR:HB2	1.75	0.44
3:O:486:TYR:O	3:O:507:VAL:HG13	2.17	0.44
3:O:691:GLY:O	3:O:692:SER:HB3	2.16	0.44
3:P:428:VAL:CG1	3:P:429:LYS:N	2.78	0.44
3:P:548:LEU:HD12	3:P:548:LEU:HA	1.76	0.44
1:A:171:PRO:O	1:A:172:GLU:C	2.59	0.44
1:A:207:GLY:HA3	1:A:246:CYS:SG	2.58	0.44
1:C:207:GLY:HA3	1:C:246:CYS:SG	2.58	0.44
1:C:383:THR:HG22	1:C:384:GLU:HG3	1.99	0.44
1:C:476:TYR:CD1	1:C:513:ILE:CD1	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:129:THR:HB	1:D:130:ASN:H	1.63	0.44
1:D:177:GLU:HG3	1:D:178:THR:H	1.82	0.44
1:D:225:LEU:CD2	1:D:399:THR:HB	2.47	0.44
1:D:381:PRO:O	1:D:382:LEU:C	2.61	0.44
1:E:231:TYR:H	1:E:503:GLN:HE21	1.65	0.44
1:E:383:THR:O	1:E:383:THR:CG2	2.65	0.44
1:E:476:TYR:CD1	1:E:513:ILE:CD1	3.00	0.44
3:F:283:VAL:CG1	3:F:284:VAL:N	2.81	0.44
3:F:428:VAL:CG1	3:F:429:LYS:N	2.78	0.44
3:F:818:ILE:H	3:F:818:ILE:HG13	1.47	0.44
3:G:183:ILE:HD13	3:G:219:ALA:HB2	1.98	0.44
3:G:222:VAL:CG2	3:G:223:LEU:N	2.80	0.44
3:G:678:ALA:HB3	3:G:918:LEU:HB2	2.00	0.44
3:H:672:ALA:O	3:H:673:ALA:HB3	2.18	0.44
3:I:119:ALA:HB2	3:J:519:LEU:HD12	2.00	0.44
3:I:636:ASP:HA	3:I:639:ASP:OD1	2.18	0.44
3:J:56:THR:CG2	3:J:57:THR:N	2.79	0.44
3:J:746:ARG:CZ	3:J:753:TYR:HB2	2.45	0.44
3:L:678:ALA:HB3	3:L:918:LEU:HB2	2.00	0.44
3:L:690:LEU:C	3:L:692:SER:H	2.25	0.44
3:M:101:ASP:CG	3:M:558:HIS:HE2	2.23	0.44
3:M:222:VAL:CG2	3:M:223:LEU:N	2.81	0.44
3:M:667:PRO:O	3:M:668:SER:C	2.61	0.44
3:M:678:ALA:HB3	3:M:918:LEU:HB2	2.00	0.44
3:N:383:PHE:HB3	3:N:388:GLN:HB3	2.00	0.44
3:N:636:ASP:HA	3:N:639:ASP:OD1	2.18	0.44
3:N:789:ARG:H	3:N:789:ARG:HG2	1.66	0.44
3:P:75:THR:HG23	3:P:76:ALA:N	2.32	0.44
3:P:654:PRO:HA	3:P:914:LEU:HD23	1.98	0.44
3:P:672:ALA:O	3:P:673:ALA:HB3	2.17	0.44
3:P:786:TYR:CE2	3:P:787:LYS:HE3	2.52	0.44
3:Q:371:LEU:HD12	3:Q:646:LEU:HD13	1.98	0.44
3:Q:374:ASP:OD2	3:Q:789:ARG:HB2	2.16	0.44
3:Q:505:LYS:O	3:Q:506:ARG:C	2.61	0.44
3:Q:690:LEU:HD23	3:Q:690:LEU:HA	1.86	0.44
1:A:64:PHE:HD1	1:B:118:HIS:NE2	2.15	0.44
1:A:244:PRO:HA	1:A:275:TYR:CE2	2.53	0.44
1:B:394:ILE:HG13	1:B:395:SER:N	2.32	0.44
1:B:483:SER:O	1:B:484:GLN:C	2.59	0.44
1:C:383:THR:O	1:C:383:THR:CG2	2.65	0.44
1:C:448:PRO:HG2	1:C:462:VAL:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:99:ASN:HB3	1:E:452:ARG:NH2	2.32	0.44
1:D:189:VAL:O	1:D:192:TYR:N	2.51	0.44
1:D:202:LEU:N	1:D:202:LEU:HD23	2.33	0.44
1:E:171:PRO:O	1:E:172:GLU:O	2.35	0.44
1:E:383:THR:HG22	1:E:384:GLU:HG3	1.99	0.44
3:G:672:ALA:O	3:G:673:ALA:HB3	2.17	0.44
3:H:330:ASP:O	3:H:333:ILE:HG13	2.18	0.44
3:H:636:ASP:HA	3:H:639:ASP:OD1	2.18	0.44
3:L:304:THR:C	3:L:306:LYS:H	2.24	0.44
3:L:690:LEU:HD23	3:L:690:LEU:HA	1.86	0.44
3:L:795:ARG:O	3:L:795:ARG:HG3	2.18	0.44
3:M:383:PHE:HB3	3:M:388:GLN:HB3	2.00	0.44
3:N:486:TYR:O	3:N:507:VAL:HG13	2.17	0.44
3:N:667:PRO:O	3:N:668:SER:C	2.61	0.44
3:N:672:ALA:O	3:N:673:ALA:HB3	2.18	0.44
3:N:730:TRP:CG	3:N:731:PRO:HA	2.53	0.44
3:N:795:ARG:O	3:N:795:ARG:HG3	2.18	0.44
3:N:864:LEU:HD12	3:N:864:LEU:HA	1.70	0.44
3:O:755:VAL:CG2	3:O:756:ALA:H	2.29	0.44
3:P:383:PHE:HB3	3:P:388:GLN:HB3	1.99	0.44
3:P:636:ASP:HA	3:P:639:ASP:OD1	2.18	0.44
3:Q:383:PHE:HB3	3:Q:388:GLN:HB3	2.00	0.44
3:Q:398:ARG:HD3	3:Q:533:PRO:HB3	2.00	0.44
3:Q:654:PRO:HA	3:Q:914:LEU:HD23	1.99	0.44
1:A:69:VAL:HG22	1:A:561:VAL:HB	2.00	0.44
1:A:189:VAL:O	1:A:192:TYR:N	2.51	0.44
1:B:113:LEU:HB3	1:B:119:TRP:CE2	2.53	0.44
1:B:244:PRO:HA	1:B:275:TYR:CE2	2.53	0.44
1:C:171:PRO:O	1:C:172:GLU:O	2.36	0.44
1:C:231:TYR:H	1:C:503:GLN:HE21	1.65	0.44
1:E:223:THR:HG22	1:E:225:LEU:HB2	1.99	0.44
1:E:394:ILE:HG13	1:E:395:SER:N	2.32	0.44
3:F:521:ALA:HB2	3:H:551:ASN:HB3	1.99	0.44
3:G:398:ARG:HD3	3:G:533:PRO:HB3	2.00	0.44
3:H:667:PRO:O	3:H:668:SER:C	2.61	0.44
3:H:795:ARG:O	3:H:795:ARG:HG3	2.18	0.44
3:I:486:TYR:O	3:I:507:VAL:HG13	2.17	0.44
3:I:929:ARG:HB2	3:I:929:ARG:HH11	1.82	0.44
3:J:119:ALA:HB2	3:K:519:LEU:HD12	1.99	0.44
3:J:672:ALA:O	3:J:673:ALA:HB3	2.17	0.44
3:L:398:ARG:HD3	3:L:533:PRO:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:636:ASP:HA	3:L:639:ASP:OD1	2.18	0.44
3:O:596:LEU:HD12	3:O:596:LEU:HA	1.68	0.44
3:O:795:ARG:O	3:O:795:ARG:HG3	2.18	0.44
3:P:330:ASP:O	3:P:333:ILE:HG13	2.17	0.44
3:P:730:TRP:CG	3:P:731:PRO:HA	2.52	0.44
1:A:267:PHE:HB3	1:E:79:VAL:HG13	2.00	0.44
1:B:138:MET:HE3	1:B:254:ARG:NH1	2.33	0.44
1:B:207:GLY:HA3	1:B:246:CYS:SG	2.58	0.44
1:B:383:THR:HG22	1:B:384:GLU:HG3	1.99	0.44
1:C:69:VAL:HG22	1:C:561:VAL:HB	2.00	0.44
1:C:384:GLU:HA	1:C:389:ARG:O	2.17	0.44
1:D:79:VAL:HG13	1:E:267:PHE:CD2	2.53	0.44
1:D:277:ASP:O	1:D:279:GLU:N	2.46	0.44
1:D:386:SER:C	1:D:388:LYS:N	2.76	0.44
1:D:419:ILE:C	1:D:421:SER:N	2.76	0.44
1:D:460:PHE:O	1:D:548:ARG:NH2	2.50	0.44
1:E:386:SER:C	1:E:388:LYS:N	2.76	0.44
2:T:10:THR:O	2:T:10:THR:CG2	2.60	0.44
3:F:672:ALA:O	3:F:673:ALA:HB3	2.18	0.44
3:F:678:ALA:HB3	3:F:918:LEU:HB2	2.00	0.44
3:F:691:GLY:O	3:F:692:SER:HB3	2.16	0.44
3:G:551:ASN:HB3	3:H:521:ALA:HB2	1.99	0.44
3:G:587:ASP:O	3:G:591:VAL:HG13	2.18	0.44
3:G:755:VAL:CG2	3:G:756:ALA:H	2.29	0.44
3:H:505:LYS:O	3:H:506:ARG:C	2.61	0.44
3:I:398:ARG:HD3	3:I:533:PRO:HB3	2.00	0.44
3:J:283:VAL:CG1	3:J:284:VAL:N	2.81	0.44
3:K:398:ARG:HD3	3:K:533:PRO:HB3	2.00	0.44
3:L:222:VAL:CG2	3:L:223:LEU:N	2.80	0.44
3:L:330:ASP:O	3:L:333:ILE:HG13	2.17	0.44
3:L:521:ALA:HB2	3:N:551:ASN:HB3	1.99	0.44
3:L:667:PRO:O	3:L:668:SER:C	2.60	0.44
3:M:202:GLU:CD	3:N:820:HIS:HD2	2.26	0.44
3:N:283:VAL:CG1	3:N:284:VAL:N	2.81	0.44
3:Q:222:VAL:CG2	3:Q:223:LEU:N	2.80	0.44
3:Q:283:VAL:CG1	3:Q:284:VAL:N	2.81	0.44
1:A:67:THR:CG2	1:B:449:VAL:HG22	2.44	0.44
1:A:130:ASN:C	1:A:130:ASN:ND2	2.76	0.44
1:A:441:LEU:N	1:A:442:PRO:CD	2.79	0.44
1:B:64:PHE:O	1:B:65:ASP:HB2	2.17	0.44
1:B:242:LEU:HD22	1:B:247:GLY:HA2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:57:TYR:CD2	1:D:450:THR:HG22	2.53	0.44
1:C:113:LEU:HB3	1:C:119:TRP:CE2	2.53	0.44
1:C:277:ASP:O	1:C:279:GLU:N	2.46	0.44
1:C:386:SER:C	1:C:388:LYS:N	2.76	0.44
1:C:460:PHE:O	1:C:548:ARG:NH2	2.50	0.44
1:D:228:PRO:HB3	2:U:15:TYR:HE1	1.83	0.44
1:D:394:ILE:HG13	1:D:395:SER:N	2.33	0.44
3:F:587:ASP:O	3:F:591:VAL:HG13	2.18	0.44
3:G:690:LEU:C	3:G:692:SER:H	2.25	0.44
3:H:486:TYR:O	3:H:507:VAL:HG13	2.17	0.44
3:J:74:ASP:OD1	3:J:586:LYS:NZ	2.30	0.44
3:J:222:VAL:CG2	3:J:223:LEU:N	2.81	0.44
3:K:222:VAL:CG2	3:K:223:LEU:N	2.80	0.44
3:K:672:ALA:O	3:K:673:ALA:HB3	2.18	0.44
3:L:202:GLU:CD	3:M:820:HIS:HD2	2.26	0.44
3:L:409:LEU:HD13	3:N:469:ARG:NH1	2.33	0.44
3:L:672:ALA:O	3:L:673:ALA:HB3	2.18	0.44
3:M:636:ASP:HA	3:M:639:ASP:OD1	2.18	0.44
3:M:795:ARG:O	3:M:795:ARG:HG3	2.18	0.44
3:N:574:LEU:HG	3:N:929:ARG:NE	2.26	0.44
3:N:587:ASP:O	3:N:591:VAL:HG13	2.18	0.44
3:O:929:ARG:HB2	3:O:929:ARG:HH11	1.82	0.44
3:P:469:ARG:NH1	3:Q:409:LEU:HD13	2.33	0.44
1:A:69:VAL:O	1:A:69:VAL:HG23	2.18	0.43
1:A:250:PHE:O	1:A:251:THR:C	2.60	0.43
1:A:424:LEU:HD21	1:E:553:TYR:CZ	2.54	0.43
1:B:130:ASN:C	1:B:130:ASN:ND2	2.76	0.43
1:B:131:MET:HA	1:B:132:PRO:HD3	1.80	0.43
1:C:171:PRO:O	1:C:172:GLU:C	2.59	0.43
1:E:113:LEU:HB3	1:E:119:TRP:CE2	2.53	0.43
1:E:448:PRO:HG2	1:E:462:VAL:O	2.17	0.43
3:F:469:ARG:NH1	3:G:409:LEU:HD13	2.33	0.43
3:F:519:LEU:HD12	3:H:119:ALA:HB2	2.00	0.43
3:G:390:VAL:O	3:G:541:GLY:HA3	2.18	0.43
3:G:428:VAL:HG13	3:G:429:LYS:N	2.32	0.43
3:J:428:VAL:HG13	3:J:429:LYS:N	2.32	0.43
3:J:587:ASP:O	3:J:591:VAL:HG13	2.18	0.43
3:L:730:TRP:CG	3:L:731:PRO:HA	2.52	0.43
3:L:820:HIS:HD2	3:N:202:GLU:CD	2.26	0.43
3:M:469:ARG:NH1	3:N:409:LEU:HD13	2.33	0.43
3:M:819:LEU:HD23	3:M:819:LEU:HA	1.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:398:ARG:HD3	3:O:533:PRO:HB3	1.99	0.43
3:O:519:LEU:HD12	3:Q:119:ALA:HB2	2.00	0.43
3:P:222:VAL:CG2	3:P:223:LEU:N	2.80	0.43
3:Q:746:ARG:CZ	3:Q:753:TYR:HB2	2.46	0.43
1:A:138:MET:HE3	1:A:254:ARG:NH1	2.33	0.43
1:A:225:LEU:CD2	1:A:399:THR:HB	2.47	0.43
1:A:430:VAL:HG13	1:A:515:THR:HB	2.01	0.43
1:D:384:GLU:HA	1:D:389:ARG:O	2.17	0.43
1:E:69:VAL:O	1:E:69:VAL:HG23	2.18	0.43
1:E:207:GLY:HA3	1:E:246:CYS:SG	2.58	0.43
1:E:381:PRO:O	1:E:382:LEU:C	2.61	0.43
3:F:730:TRP:CG	3:F:731:PRO:HA	2.52	0.43
3:F:820:HIS:HD2	3:H:202:GLU:CD	2.26	0.43
3:G:730:TRP:CG	3:G:731:PRO:HA	2.52	0.43
3:G:864:LEU:HD12	3:G:864:LEU:HA	1.70	0.43
3:I:75:THR:HG23	3:I:76:ALA:N	2.32	0.43
3:I:469:ARG:NH1	3:J:409:LEU:HD13	2.33	0.43
3:J:398:ARG:HD3	3:J:533:PRO:HB3	2.00	0.43
3:J:678:ALA:HB3	3:J:918:LEU:HB2	2.00	0.43
3:L:469:ARG:NH1	3:M:409:LEU:HD13	2.33	0.43
3:M:330:ASP:O	3:M:333:ILE:HG13	2.17	0.43
3:N:596:LEU:HD12	3:N:596:LEU:HA	1.68	0.43
3:O:505:LYS:O	3:O:506:ARG:C	2.61	0.43
3:O:667:PRO:O	3:O:668:SER:C	2.60	0.43
3:P:202:GLU:CD	3:Q:820:HIS:HD2	2.26	0.43
3:Q:390:VAL:O	3:Q:541:GLY:HA3	2.18	0.43
3:Q:587:ASP:O	3:Q:591:VAL:HG13	2.18	0.43
1:A:386:SER:C	1:A:388:LYS:N	2.76	0.43
1:B:69:VAL:O	1:B:69:VAL:HG23	2.18	0.43
1:B:278:LEU:C	1:B:279:GLU:O	2.60	0.43
1:D:207:GLY:HA3	1:D:246:CYS:SG	2.58	0.43
1:D:383:THR:O	1:D:383:THR:CG2	2.65	0.43
1:E:138:MET:HE3	1:E:254:ARG:NH1	2.33	0.43
1:E:244:PRO:HA	1:E:275:TYR:CE2	2.53	0.43
3:F:73:GLU:CD	3:L:68:ILE:CB	2.91	0.43
3:F:75:THR:HG23	3:F:76:ALA:N	2.32	0.43
3:F:119:ALA:HB2	3:G:519:LEU:HD12	2.00	0.43
3:I:283:VAL:CG1	3:I:284:VAL:N	2.81	0.43
3:I:678:ALA:HB3	3:I:918:LEU:HB2	2.00	0.43
3:J:202:GLU:CD	3:K:820:HIS:HD2	2.26	0.43
3:J:636:ASP:HA	3:J:639:ASP:OD1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:390:VAL:O	3:K:541:GLY:HA3	2.18	0.43
3:L:119:ALA:HB2	3:M:519:LEU:HD12	2.00	0.43
3:L:283:VAL:CG1	3:L:284:VAL:N	2.81	0.43
3:L:587:ASP:O	3:L:591:VAL:HG13	2.18	0.43
3:M:561:VAL:HA	3:M:562:PRO:HD3	1.91	0.43
3:N:75:THR:HG23	3:N:76:ALA:N	2.32	0.43
3:N:428:VAL:CG1	3:N:429:LYS:N	2.79	0.43
3:O:202:GLU:CD	3:P:820:HIS:HD2	2.26	0.43
3:O:383:PHE:HB3	3:O:388:GLN:HB3	2.00	0.43
3:O:413:CYS:HG	3:O:459:MET:HB2	1.80	0.43
3:P:755:VAL:CG2	3:P:756:ALA:H	2.29	0.43
3:Q:590:MET:HE3	3:Q:590:MET:HB3	1.93	0.43
3:Q:678:ALA:HB3	3:Q:918:LEU:HB2	2.00	0.43
3:Q:730:TRP:CG	3:Q:731:PRO:HA	2.53	0.43
1:A:75:LYS:HE2	1:A:75:LYS:HB3	1.88	0.43
1:A:102:SER:C	1:A:103:PRO:O	2.61	0.43
1:A:113:LEU:HB3	1:A:119:TRP:CE2	2.53	0.43
1:A:207:GLY:O	1:A:208:VAL:CB	2.64	0.43
1:A:419:ILE:C	1:A:421:SER:N	2.76	0.43
1:A:448:PRO:HG2	1:A:462:VAL:O	2.17	0.43
1:B:83:ASN:CA	1:B:86:ASN:HD22	2.21	0.43
1:B:547:ARG:O	1:B:548:ARG:HB2	2.16	0.43
1:C:130:ASN:C	1:C:130:ASN:ND2	2.76	0.43
1:C:192:TYR:CD1	1:C:196:GLY:HA3	2.54	0.43
1:C:419:ILE:C	1:C:421:SER:N	2.76	0.43
1:D:244:PRO:HA	1:D:275:TYR:CE2	2.53	0.43
1:D:436:GLN:NE2	1:D:438:TYR:CE2	2.81	0.43
1:D:483:SER:O	1:D:484:GLN:C	2.59	0.43
1:E:102:SER:C	1:E:103:PRO:O	2.61	0.43
3:F:202:GLU:CD	3:G:820:HIS:HD2	2.26	0.43
3:F:755:VAL:CG2	3:F:756:ALA:H	2.29	0.43
3:G:75:THR:HG23	3:G:76:ALA:N	2.32	0.43
3:G:177:ASN:HA	3:G:217:HIS:CD2	2.54	0.43
3:I:202:GLU:CD	3:J:820:HIS:HD2	2.26	0.43
3:I:519:LEU:HD12	3:K:119:ALA:HB2	2.00	0.43
3:I:667:PRO:O	3:I:668:SER:C	2.61	0.43
3:J:390:VAL:O	3:J:541:GLY:HA3	2.18	0.43
3:J:469:ARG:NH1	3:K:409:LEU:HD13	2.33	0.43
3:J:746:ARG:HH11	3:J:753:TYR:HB2	1.75	0.43
3:K:177:ASN:HA	3:K:217:HIS:CD2	2.54	0.43
3:K:667:PRO:O	3:K:668:SER:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:746:ARG:CZ	3:K:753:TYR:HB2	2.45	0.43
3:K:786:TYR:CZ	3:K:787:LYS:HE3	2.54	0.43
3:L:590:MET:HE3	3:L:590:MET:HB3	1.93	0.43
3:N:57:THR:CG2	3:N:59:ARG:NH1	2.79	0.43
3:Q:75:THR:HG23	3:Q:76:ALA:N	2.32	0.43
3:Q:330:ASP:O	3:Q:333:ILE:HG13	2.18	0.43
3:Q:574:LEU:HG	3:Q:929:ARG:NE	2.26	0.43
3:Q:667:PRO:O	3:Q:668:SER:C	2.61	0.43
1:A:202:LEU:N	1:A:202:LEU:HD23	2.33	0.43
1:B:200:GLY:O	1:B:201:VAL:C	2.62	0.43
1:C:138:MET:HE3	1:C:254:ARG:NH1	2.33	0.43
1:C:177:GLU:CG	1:C:178:THR:H	2.30	0.43
1:D:64:PHE:CD1	1:E:118:HIS:NE2	2.86	0.43
1:E:243:LEU:O	1:E:244:PRO:C	2.59	0.43
1:E:419:ILE:C	1:E:421:SER:N	2.76	0.43
3:F:73:GLU:CD	3:L:68:ILE:HG12	2.34	0.43
3:F:409:LEU:HD13	3:H:469:ARG:NH1	2.33	0.43
3:F:795:ARG:O	3:F:795:ARG:HG3	2.18	0.43
3:G:469:ARG:NH1	3:H:409:LEU:HD13	2.33	0.43
3:H:68:ILE:HG12	3:I:73:GLU:OE2	2.17	0.43
3:H:428:VAL:CG1	3:H:429:LYS:N	2.78	0.43
3:H:599:ASP:OD1	3:H:601:ARG:HG3	2.19	0.43
3:I:57:THR:CG2	3:I:59:ARG:NH1	2.80	0.43
3:J:75:THR:HG23	3:J:76:ALA:N	2.32	0.43
3:J:730:TRP:CG	3:J:731:PRO:HA	2.52	0.43
3:L:57:THR:CG2	3:L:59:ARG:NH1	2.79	0.43
3:L:746:ARG:CZ	3:L:753:TYR:HB2	2.45	0.43
3:M:283:VAL:CG1	3:M:284:VAL:N	2.81	0.43
3:M:786:TYR:CZ	3:M:787:LYS:HE3	2.54	0.43
3:O:57:THR:CG2	3:O:59:ARG:NH1	2.79	0.43
3:O:409:LEU:HD13	3:Q:469:ARG:NH1	2.33	0.43
3:O:672:ALA:O	3:O:673:ALA:HB3	2.18	0.43
3:P:505:LYS:O	3:P:506:ARG:C	2.61	0.43
3:Q:413:CYS:HG	3:Q:459:MET:HB2	1.83	0.43
3:Q:599:ASP:OD1	3:Q:601:ARG:HG3	2.19	0.43
1:A:512:THR:O	1:A:513:ILE:CB	2.63	0.43
1:B:88:HIS:CD2	1:C:267:PHE:CZ	3.06	0.43
1:B:181:ILE:O	1:B:184:MET:HB2	2.19	0.43
1:B:202:LEU:N	1:B:202:LEU:HD23	2.33	0.43
1:C:444:MET:CE	1:C:561:VAL:HG21	2.28	0.43
1:E:130:ASN:C	1:E:130:ASN:ND2	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:223:THR:CG2	1:E:225:LEU:HB2	2.49	0.43
3:F:390:VAL:O	3:F:541:GLY:HA3	2.19	0.43
3:F:551:ASN:HB3	3:G:521:ALA:HB2	1.99	0.43
3:F:596:LEU:HD12	3:F:596:LEU:HA	1.68	0.43
3:G:202:GLU:CD	3:H:820:HIS:HD2	2.26	0.43
3:G:636:ASP:HA	3:G:639:ASP:OD1	2.18	0.43
3:H:283:VAL:CG1	3:H:284:VAL:N	2.81	0.43
3:H:678:ALA:HB3	3:H:918:LEU:HB2	2.00	0.43
3:H:730:TRP:CG	3:H:731:PRO:HA	2.52	0.43
3:J:383:PHE:HB3	3:J:388:GLN:HB3	1.99	0.43
3:K:678:ALA:HB3	3:K:918:LEU:HB2	2.00	0.43
3:K:795:ARG:O	3:K:795:ARG:HG3	2.18	0.43
3:N:204:GLN:H	3:N:204:GLN:HG3	1.34	0.43
3:O:786:TYR:CZ	3:O:787:LYS:HE3	2.54	0.43
3:P:795:ARG:O	3:P:795:ARG:HG3	2.18	0.43
3:Q:755:VAL:CG2	3:Q:756:ALA:H	2.29	0.43
1:A:468:LEU:HA	1:A:469:PRO:HD3	1.78	0.43
1:B:189:VAL:O	1:B:192:TYR:N	2.51	0.43
1:B:192:TYR:CD1	1:B:196:GLY:HA3	2.54	0.43
1:C:558:LEU:CD2	1:D:436:GLN:HG2	2.44	0.43
1:D:113:LEU:HB3	1:D:119:TRP:CE2	2.53	0.43
1:E:181:ILE:O	1:E:184:MET:HB2	2.19	0.43
3:G:548:LEU:HD12	3:G:548:LEU:HA	1.76	0.43
3:G:667:PRO:O	3:G:668:SER:C	2.61	0.43
3:G:786:TYR:CZ	3:G:787:LYS:HE3	2.54	0.43
3:H:177:ASN:HA	3:H:217:HIS:CD2	2.54	0.43
3:I:587:ASP:O	3:I:591:VAL:HG13	2.18	0.43
3:I:786:TYR:CZ	3:I:787:LYS:HE3	2.54	0.43
3:I:819:LEU:HD23	3:I:819:LEU:HA	1.86	0.43
3:I:820:HIS:HD2	3:K:202:GLU:CD	2.26	0.43
3:J:177:ASN:HA	3:J:217:HIS:CD2	2.54	0.43
3:K:599:ASP:OD1	3:K:601:ARG:HG3	2.19	0.43
3:L:17:GLN:HB3	3:L:21:GLU:HB2	2.01	0.43
3:L:551:ASN:HB3	3:M:521:ALA:HB2	1.99	0.43
3:M:398:ARG:HD3	3:M:533:PRO:HB3	2.00	0.43
3:M:497:PRO:HA	3:M:502:TYR:CD2	2.54	0.43
3:N:398:ARG:HD3	3:N:533:PRO:HB3	1.99	0.43
3:N:786:TYR:CZ	3:N:787:LYS:HE3	2.54	0.43
3:O:390:VAL:O	3:O:541:GLY:HA3	2.19	0.43
3:Q:598:ASN:O	3:Q:701:SER:OG	2.36	0.43
3:Q:795:ARG:O	3:Q:795:ARG:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:818:ILE:H	3:Q:818:ILE:HG13	1.47	0.43
1:A:243:LEU:HD23	1:A:244:PRO:HD3	2.01	0.43
1:C:487:ARG:NH2	1:D:234:GLU:OE1	2.50	0.43
1:C:544:THR:HG23	1:C:549:ARG:N	2.34	0.43
1:D:79:VAL:HG13	1:E:267:PHE:HD2	1.82	0.43
1:D:223:THR:CG2	1:D:225:LEU:HB2	2.49	0.43
1:D:430:VAL:HG13	1:D:515:THR:HB	2.01	0.43
1:D:544:THR:HG23	1:D:549:ARG:N	2.34	0.43
1:E:202:LEU:N	1:E:202:LEU:HD23	2.33	0.43
1:E:481:VAL:O	1:E:481:VAL:CG1	2.66	0.43
3:F:497:PRO:HA	3:F:502:TYR:CD2	2.54	0.43
3:H:587:ASP:O	3:H:591:VAL:HG13	2.18	0.43
3:I:390:VAL:O	3:I:541:GLY:HA3	2.19	0.43
3:I:409:LEU:HD13	3:K:469:ARG:NH1	2.33	0.43
3:I:497:PRO:HA	3:I:502:TYR:CD2	2.54	0.43
3:J:795:ARG:O	3:J:795:ARG:HG3	2.18	0.43
3:K:330:ASP:O	3:K:333:ILE:HG13	2.18	0.43
3:K:587:ASP:O	3:K:591:VAL:HG13	2.18	0.43
3:N:413:CYS:HG	3:N:459:MET:HB2	1.81	0.43
3:O:636:ASP:HA	3:O:639:ASP:OD1	2.18	0.43
3:P:177:ASN:HA	3:P:217:HIS:CD2	2.54	0.43
3:P:599:ASP:OD1	3:P:601:ARG:HG3	2.19	0.43
3:P:810:TYR:CE1	3:P:855:VAL:HG12	2.54	0.43
1:A:200:GLY:O	1:A:201:VAL:C	2.62	0.43
1:A:394:ILE:HG13	1:A:395:SER:N	2.32	0.43
1:B:504:ILE:C	1:B:506:ALA:N	2.77	0.43
1:C:255:LEU:O	1:C:256:SER:C	2.62	0.43
1:D:424:LEU:CD2	1:D:425:LEU:N	2.80	0.43
1:D:566:LEU:O	1:D:567:SER:HB3	2.19	0.43
1:E:87:ASP:O	1:E:89:SER:N	2.46	0.43
1:E:243:LEU:HD23	1:E:244:PRO:HD3	2.01	0.43
1:E:424:LEU:CD2	1:E:425:LEU:N	2.80	0.43
3:F:636:ASP:HA	3:F:639:ASP:OD1	2.18	0.43
3:F:690:LEU:HD23	3:F:690:LEU:HA	1.85	0.43
3:G:74:ASP:OD1	3:G:586:LYS:NZ	2.30	0.43
3:J:330:ASP:O	3:J:333:ILE:HG13	2.17	0.43
3:L:497:PRO:HA	3:L:502:TYR:CD2	2.54	0.43
3:L:858:ILE:HD12	3:L:858:ILE:HA	1.84	0.43
3:M:57:THR:CG2	3:M:59:ARG:NH1	2.79	0.43
3:N:678:ALA:HB3	3:N:918:LEU:HB2	2.00	0.43
3:O:469:ARG:NH2	3:O:828:VAL:CG2	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:678:ALA:HB3	3:O:918:LEU:HB2	2.00	0.43
3:O:820:HIS:HD2	3:Q:202:GLU:CD	2.26	0.43
3:Q:57:THR:CG2	3:Q:59:ARG:NH1	2.79	0.43
1:A:255:LEU:O	1:A:256:SER:C	2.61	0.43
1:A:544:THR:HG23	1:A:549:ARG:N	2.34	0.43
1:B:69:VAL:HG22	1:B:561:VAL:HB	2.00	0.43
1:B:100:ASP:CG	1:C:452:ARG:NH1	2.70	0.43
1:B:243:LEU:O	1:B:244:PRO:C	2.59	0.43
1:B:430:VAL:HG13	1:B:515:THR:HB	2.00	0.43
1:D:67:THR:OG1	1:E:449:VAL:HG23	2.19	0.43
1:D:171:PRO:O	1:D:172:GLU:O	2.35	0.43
1:D:430:VAL:C	1:D:432:CYS:N	2.76	0.43
1:E:95:VAL:O	1:E:95:VAL:HG12	2.19	0.43
3:F:17:GLN:HB3	3:F:21:GLU:HB2	2.01	0.43
3:F:177:ASN:HA	3:F:217:HIS:CD2	2.54	0.43
3:F:786:TYR:CZ	3:F:787:LYS:HE3	2.54	0.43
3:G:587:ASP:CG	3:G:601:ARG:HH11	2.27	0.43
3:H:57:THR:CG2	3:H:59:ARG:NH1	2.79	0.43
3:H:131:PRO:HB3	3:H:169:GLY:HA2	2.01	0.43
3:H:390:VAL:O	3:H:541:GLY:HA3	2.18	0.43
3:I:298:HIS:ND1	3:I:321:ASN:OD1	2.48	0.43
3:K:636:ASP:HA	3:K:639:ASP:OD1	2.18	0.43
3:L:75:THR:HG23	3:L:76:ALA:N	2.32	0.43
3:L:519:LEU:HD12	3:N:119:ALA:HB2	2.00	0.43
3:M:17:GLN:HB3	3:M:21:GLU:HB2	2.01	0.43
3:O:599:ASP:OD1	3:O:601:ARG:HG3	2.19	0.43
3:O:646:LEU:HD12	3:O:646:LEU:HA	1.85	0.43
3:P:17:GLN:HB3	3:P:21:GLU:HB2	2.01	0.43
3:P:678:ALA:HB3	3:P:918:LEU:HB2	2.00	0.43
3:Q:17:GLN:HB3	3:Q:21:GLU:HB2	2.01	0.43
3:Q:463:LEU:HD23	3:Q:463:LEU:HA	1.83	0.43
3:Q:469:ARG:NH2	3:Q:828:VAL:CG2	2.82	0.43
3:Q:786:TYR:CZ	3:Q:787:LYS:HE3	2.54	0.43
1:A:243:LEU:O	1:A:244:PRO:C	2.59	0.42
1:A:383:THR:O	1:A:383:THR:CG2	2.65	0.42
1:A:490:THR:HG23	1:B:481:VAL:C	2.43	0.42
1:B:132:PRO:CD	1:B:553:TYR:CE2	3.02	0.42
1:B:223:THR:CG2	1:B:225:LEU:HB2	2.49	0.42
1:B:566:LEU:O	1:B:567:SER:HB3	2.19	0.42
1:C:96:ILE:O	1:D:450:THR:HB	2.19	0.42
1:C:132:PRO:CD	1:C:553:TYR:CE2	3.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:189:VAL:O	1:C:192:TYR:N	2.51	0.42
1:C:566:LEU:O	1:C:567:SER:HB3	2.19	0.42
1:D:75:LYS:HE2	1:D:75:LYS:HB3	1.88	0.42
1:D:126:ILE:HG12	1:D:523:LEU:CD2	2.49	0.42
1:D:132:PRO:CD	1:D:553:TYR:CE2	3.02	0.42
1:D:138:MET:HE3	1:D:254:ARG:NH1	2.33	0.42
1:D:179:MET:CE	1:D:487:ARG:NH2	2.77	0.42
1:D:243:LEU:HD23	1:D:244:PRO:HD3	2.01	0.42
1:D:419:ILE:HD12	1:D:419:ILE:HA	1.79	0.42
1:E:192:TYR:CD1	1:E:196:GLY:HA3	2.54	0.42
1:E:228:PRO:CB	2:V:15:TYR:HE1	2.32	0.42
1:E:544:THR:HG23	1:E:549:ARG:N	2.34	0.42
3:F:667:PRO:HG2	3:M:726:SER:CB	2.49	0.42
3:G:119:ALA:HB2	3:H:519:LEU:HD12	1.99	0.42
3:H:373:LEU:HD23	3:H:373:LEU:HA	1.78	0.42
3:I:177:ASN:HA	3:I:217:HIS:CD2	2.54	0.42
3:I:383:PHE:HB3	3:I:388:GLN:HB3	2.00	0.42
3:J:17:GLN:HB3	3:J:21:GLU:HB2	2.01	0.42
3:K:864:LEU:HD12	3:K:864:LEU:HA	1.70	0.42
3:M:379:ARG:HD2	3:M:379:ARG:HA	1.72	0.42
3:M:810:TYR:CE1	3:M:855:VAL:HG12	2.54	0.42
3:N:390:VAL:O	3:N:541:GLY:HA3	2.18	0.42
3:N:469:ARG:NH2	3:N:828:VAL:CG2	2.82	0.42
3:O:469:ARG:NH1	3:P:409:LEU:HD13	2.33	0.42
3:P:398:ARG:HD3	3:P:533:PRO:HB3	2.00	0.42
3:P:469:ARG:NH2	3:P:828:VAL:CG2	2.82	0.42
3:P:566:PHE:CE2	3:P:925:VAL:CG2	3.01	0.42
1:A:126:ILE:HG12	1:A:523:LEU:CD2	2.49	0.42
1:A:192:TYR:CD1	1:A:196:GLY:HA3	2.54	0.42
1:A:449:VAL:CG2	1:E:67:THR:CG2	2.97	0.42
1:A:551:CYS:HA	1:A:552:PRO:HD3	1.89	0.42
1:C:99:ASN:OD1	1:C:99:ASN:C	2.62	0.42
1:D:69:VAL:O	1:D:69:VAL:HG23	2.18	0.42
1:D:87:ASP:OD1	1:D:89:SER:HB3	2.19	0.42
1:D:558:LEU:CD2	1:E:436:GLN:HG2	2.46	0.42
1:E:126:ILE:HG12	1:E:523:LEU:CD2	2.49	0.42
1:E:189:VAL:O	1:E:192:TYR:N	2.51	0.42
1:E:430:VAL:C	1:E:432:CYS:N	2.76	0.42
1:E:430:VAL:HG13	1:E:515:THR:HB	2.01	0.42
1:E:504:ILE:C	1:E:506:ALA:N	2.77	0.42
3:F:5:MET:C	3:F:7:PRO:HD2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:667:PRO:O	3:F:668:SER:C	2.61	0.42
3:H:561:VAL:HA	3:H:562:PRO:HD3	1.92	0.42
3:I:599:ASP:OD1	3:I:601:ARG:HG3	2.19	0.42
3:J:373:LEU:HB3	3:J:379:ARG:HD3	2.01	0.42
3:L:5:MET:C	3:L:7:PRO:HD2	2.44	0.42
3:M:390:VAL:O	3:M:541:GLY:HA3	2.18	0.42
3:N:17:GLN:HB3	3:N:21:GLU:HB2	2.01	0.42
3:N:818:ILE:H	3:N:818:ILE:HG13	1.47	0.42
3:O:177:ASN:HA	3:O:217:HIS:CD2	2.54	0.42
1:A:181:ILE:O	1:A:184:MET:HB2	2.19	0.42
1:A:223:THR:CG2	1:A:225:LEU:HB2	2.49	0.42
1:C:171:PRO:C	1:D:411:ASN:HD22	2.26	0.42
1:C:244:PRO:HA	1:C:275:TYR:CE2	2.53	0.42
1:C:430:VAL:C	1:C:432:CYS:N	2.76	0.42
1:D:95:VAL:O	1:D:95:VAL:HG12	2.19	0.42
1:D:99:ASN:OD1	1:D:99:ASN:C	2.62	0.42
1:D:181:ILE:O	1:D:184:MET:HB2	2.19	0.42
1:D:268:GLN:O	1:D:269:GLU:C	2.62	0.42
1:E:73:ASP:N	1:E:73:ASP:OD1	2.53	0.42
3:F:131:PRO:HB3	3:F:169:GLY:HA2	2.01	0.42
3:F:587:ASP:CG	3:F:601:ARG:HH11	2.27	0.42
3:G:131:PRO:HB3	3:G:169:GLY:HA2	2.01	0.42
3:G:497:PRO:HA	3:G:502:TYR:CD2	2.54	0.42
3:H:383:PHE:HB3	3:H:388:GLN:HB3	2.00	0.42
3:J:497:PRO:HA	3:J:502:TYR:CD2	2.54	0.42
3:J:810:TYR:CE1	3:J:855:VAL:HG12	2.54	0.42
3:K:283:VAL:CG1	3:K:284:VAL:N	2.81	0.42
3:K:469:ARG:NH2	3:K:828:VAL:CG2	2.82	0.42
3:L:131:PRO:HB3	3:L:169:GLY:HA2	2.01	0.42
3:L:561:VAL:HA	3:L:562:PRO:HD3	1.91	0.42
3:L:596:LEU:HD12	3:L:596:LEU:HA	1.68	0.42
3:L:786:TYR:CZ	3:L:787:LYS:HE3	2.54	0.42
3:M:373:LEU:HB3	3:M:379:ARG:HD3	2.01	0.42
3:M:587:ASP:O	3:M:591:VAL:HG13	2.18	0.42
3:M:587:ASP:CG	3:M:601:ARG:HH11	2.27	0.42
3:N:463:LEU:HD23	3:N:463:LEU:HA	1.83	0.42
3:N:497:PRO:HA	3:N:502:TYR:CD2	2.54	0.42
3:N:755:VAL:CG2	3:N:756:ALA:H	2.29	0.42
3:O:131:PRO:HB3	3:O:169:GLY:HA2	2.01	0.42
3:O:497:PRO:HA	3:O:502:TYR:CD2	2.54	0.42
3:O:587:ASP:O	3:O:591:VAL:HG13	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:497:PRO:HA	3:P:502:TYR:CD2	2.54	0.42
3:P:587:ASP:O	3:P:591:VAL:HG13	2.18	0.42
3:P:786:TYR:CZ	3:P:787:LYS:HE3	2.54	0.42
3:Q:561:VAL:HA	3:Q:562:PRO:HD3	1.91	0.42
3:Q:587:ASP:CG	3:Q:601:ARG:HH11	2.27	0.42
1:A:96:ILE:HG22	1:A:98:ASN:N	2.29	0.42
1:A:544:THR:HG21	1:A:548:ARG:HD2	2.02	0.42
1:B:87:ASP:OD1	1:B:89:SER:HB3	2.19	0.42
1:B:243:LEU:HD23	1:B:244:PRO:HD3	2.01	0.42
1:C:95:VAL:O	1:C:95:VAL:HG12	2.19	0.42
1:D:102:SER:C	1:D:103:PRO:O	2.61	0.42
1:D:130:ASN:C	1:D:130:ASN:ND2	2.76	0.42
1:D:192:TYR:CD1	1:D:196:GLY:HA3	2.54	0.42
1:E:58:SER:OG	1:E:59:GLU:N	2.52	0.42
1:E:132:PRO:CD	1:E:553:TYR:CE2	3.02	0.42
1:E:282:ASN:HA	1:E:404:ARG:HA	2.02	0.42
1:E:566:LEU:O	1:E:567:SER:HB3	2.19	0.42
3:F:469:ARG:NH2	3:F:828:VAL:CG2	2.82	0.42
3:F:599:ASP:OD1	3:F:601:ARG:HG3	2.19	0.42
3:G:505:LYS:O	3:G:506:ARG:C	2.61	0.42
3:G:599:ASP:OD1	3:G:601:ARG:HG3	2.19	0.42
3:H:5:MET:C	3:H:7:PRO:HD2	2.44	0.42
3:H:101:ASP:CG	3:H:558:HIS:HE2	2.23	0.42
3:H:361:GLN:NE2	3:H:691:GLY:HA2	2.35	0.42
3:I:426:THR:N	3:J:267:SER:O	2.39	0.42
3:J:599:ASP:OD1	3:J:601:ARG:HG3	2.19	0.42
3:K:428:VAL:CG1	3:K:429:LYS:N	2.79	0.42
3:K:789:ARG:H	3:K:789:ARG:HG2	1.66	0.42
3:L:177:ASN:HA	3:L:217:HIS:CD2	2.54	0.42
3:M:177:ASN:HA	3:M:217:HIS:CD2	2.54	0.42
3:M:426:THR:N	3:N:267:SER:O	2.39	0.42
3:P:373:LEU:HB3	3:P:379:ARG:HD3	2.01	0.42
3:P:667:PRO:O	3:P:668:SER:C	2.61	0.42
3:Q:131:PRO:HB3	3:Q:169:GLY:HA2	2.01	0.42
3:Q:746:ARG:HH11	3:Q:753:TYR:HB2	1.75	0.42
1:A:268:GLN:O	1:A:269:GLU:C	2.62	0.42
1:A:483:SER:O	1:A:484:GLN:C	2.59	0.42
1:A:495:VAL:HG21	1:B:232:THR:HB	2.00	0.42
1:A:504:ILE:C	1:A:506:ALA:N	2.77	0.42
1:A:566:LEU:O	1:A:567:SER:HB3	2.19	0.42
1:B:88:HIS:HD2	1:C:267:PHE:CZ	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:243:LEU:CG	1:B:403:TYR:CE2	3.03	0.42
1:B:268:GLN:O	1:B:269:GLU:C	2.62	0.42
1:C:126:ILE:HG12	1:C:523:LEU:CD2	2.49	0.42
1:C:137:PHE:HE1	1:C:549:ARG:NE	2.18	0.42
1:C:181:ILE:O	1:C:184:MET:HB2	2.19	0.42
1:C:223:THR:CG2	1:C:225:LEU:HB2	2.49	0.42
1:C:483:SER:O	1:C:484:GLN:C	2.59	0.42
1:C:504:ILE:C	1:C:506:ALA:N	2.77	0.42
1:D:58:SER:OG	1:D:59:GLU:N	2.52	0.42
1:D:109:GLN:C	1:D:110:THR:HG23	2.45	0.42
1:E:99:ASN:OD1	1:E:99:ASN:C	2.62	0.42
3:F:383:PHE:HB3	3:F:388:GLN:HB3	2.00	0.42
3:F:755:VAL:HB	3:F:762:LYS:HG2	2.02	0.42
3:G:795:ARG:O	3:G:795:ARG:HG3	2.18	0.42
3:G:810:TYR:CE1	3:G:855:VAL:HG12	2.54	0.42
3:I:361:GLN:NE2	3:I:691:GLY:HA2	2.35	0.42
3:J:786:TYR:CZ	3:J:787:LYS:HE3	2.54	0.42
3:K:429:LYS:N	3:K:439:GLU:O	2.43	0.42
3:L:373:LEU:HD23	3:L:373:LEU:HA	1.77	0.42
3:N:599:ASP:OD1	3:N:601:ARG:HG3	2.19	0.42
3:O:250:VAL:O	3:O:250:VAL:HG12	2.20	0.42
3:O:283:VAL:CG1	3:O:284:VAL:N	2.81	0.42
3:O:587:ASP:CG	3:O:601:ARG:HH11	2.27	0.42
3:P:390:VAL:O	3:P:541:GLY:HA3	2.18	0.42
3:Q:373:LEU:HB3	3:Q:379:ARG:HD3	2.01	0.42
1:B:255:LEU:O	1:B:256:SER:C	2.62	0.42
1:B:544:THR:HG23	1:B:549:ARG:N	2.34	0.42
1:C:87:ASP:OD1	1:C:89:SER:HB3	2.19	0.42
1:C:177:GLU:O	1:C:178:THR:C	2.63	0.42
1:D:117:SER:HA	1:D:568:SER:HA	2.02	0.42
1:E:109:GLN:C	1:E:110:THR:HG23	2.45	0.42
1:E:117:SER:HA	1:E:568:SER:HA	2.02	0.42
1:E:243:LEU:CG	1:E:403:TYR:CE2	3.03	0.42
2:W:15:TYR:HD2	2:W:15:TYR:C	2.28	0.42
3:F:298:HIS:ND1	3:F:321:ASN:OD1	2.48	0.42
3:H:497:PRO:HA	3:H:502:TYR:CD2	2.54	0.42
3:J:5:MET:C	3:J:7:PRO:HD2	2.44	0.42
3:J:131:PRO:HB3	3:J:169:GLY:HA2	2.02	0.42
3:K:361:GLN:NE2	3:K:691:GLY:HA2	2.35	0.42
3:K:505:LYS:O	3:K:506:ARG:C	2.61	0.42
3:L:267:SER:O	3:N:426:THR:N	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:505:LYS:O	3:L:506:ARG:C	2.60	0.42
3:L:755:VAL:HB	3:L:762:LYS:HG2	2.02	0.42
3:M:131:PRO:HB3	3:M:169:GLY:HA2	2.01	0.42
3:M:361:GLN:NE2	3:M:691:GLY:HA2	2.35	0.42
3:M:755:VAL:CG2	3:M:756:ALA:H	2.29	0.42
3:N:131:PRO:HB3	3:N:169:GLY:HA2	2.01	0.42
3:N:177:ASN:HA	3:N:217:HIS:CD2	2.54	0.42
3:O:810:TYR:CE1	3:O:855:VAL:HG12	2.55	0.42
1:A:87:ASP:OD1	1:A:89:SER:HB3	2.19	0.42
1:A:95:VAL:O	1:A:95:VAL:HG12	2.19	0.42
1:B:544:THR:HG21	1:B:548:ARG:HD2	2.02	0.42
1:C:200:GLY:O	1:C:201:VAL:C	2.62	0.42
1:C:243:LEU:HD23	1:C:244:PRO:HD3	2.01	0.42
1:D:57:TYR:CG	1:E:450:THR:HG22	2.55	0.42
1:D:200:GLY:O	1:D:201:VAL:C	2.62	0.42
1:D:504:ILE:C	1:D:506:ALA:N	2.77	0.42
1:E:200:GLY:O	1:E:201:VAL:C	2.62	0.42
1:E:460:PHE:O	1:E:548:ARG:NH2	2.50	0.42
1:E:468:LEU:HA	1:E:469:PRO:HD3	1.78	0.42
3:G:17:GLN:HB3	3:G:21:GLU:HB2	2.01	0.42
3:I:373:LEU:HB3	3:I:379:ARG:HD3	2.01	0.42
3:J:667:PRO:O	3:J:668:SER:C	2.61	0.42
3:L:74:ASP:OD1	3:L:586:LYS:NZ	2.30	0.42
3:L:599:ASP:OD1	3:L:601:ARG:HG3	2.19	0.42
3:M:469:ARG:NH2	3:M:828:VAL:CG2	2.82	0.42
3:N:361:GLN:NE2	3:N:691:GLY:HA2	2.35	0.42
3:O:5:MET:C	3:O:7:PRO:HD2	2.44	0.42
3:P:131:PRO:HB3	3:P:169:GLY:HA2	2.02	0.42
3:Q:177:ASN:HA	3:Q:217:HIS:CD2	2.54	0.42
3:Q:810:TYR:CE1	3:Q:855:VAL:HG12	2.55	0.42
1:B:58:SER:OG	1:B:59:GLU:N	2.52	0.42
1:B:95:VAL:O	1:B:95:VAL:HG12	2.19	0.42
1:B:179:MET:CE	1:B:487:ARG:NH2	2.77	0.42
1:B:282:ASN:HA	1:B:404:ARG:HA	2.02	0.42
1:C:69:VAL:O	1:C:69:VAL:HG23	2.18	0.42
1:C:117:SER:HA	1:C:568:SER:HA	2.02	0.42
1:D:544:THR:HG21	1:D:548:ARG:HD2	2.02	0.42
1:E:87:ASP:OD1	1:E:89:SER:HB3	2.20	0.42
1:E:544:THR:HG21	1:E:548:ARG:HD2	2.02	0.42
3:F:248:ILE:HD12	3:F:289:ASP:C	2.45	0.42
3:G:792:SER:O	3:G:796:ASN:ND2	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:463:LEU:HD23	3:H:463:LEU:HA	1.83	0.42
3:H:786:TYR:CZ	3:H:787:LYS:HE3	2.54	0.42
3:H:810:TYR:CE1	3:H:855:VAL:HG12	2.55	0.42
3:I:5:MET:C	3:I:7:PRO:HD2	2.44	0.42
3:J:755:VAL:CG2	3:J:756:ALA:N	2.83	0.42
3:K:5:MET:C	3:K:7:PRO:HD2	2.44	0.42
3:K:497:PRO:HA	3:K:502:TYR:CD2	2.54	0.42
3:L:250:VAL:HG12	3:L:250:VAL:O	2.20	0.42
3:L:298:HIS:ND1	3:L:321:ASN:OD1	2.48	0.42
3:L:383:PHE:HB3	3:L:388:GLN:HB3	2.00	0.42
3:M:505:LYS:O	3:M:506:ARG:C	2.61	0.42
3:M:596:LEU:HD12	3:M:596:LEU:HA	1.68	0.42
3:P:5:MET:C	3:P:7:PRO:HD2	2.44	0.42
1:A:73:ASP:OD1	1:A:73:ASP:N	2.53	0.42
1:A:99:ASN:OD1	1:A:99:ASN:C	2.62	0.42
1:A:430:VAL:C	1:A:432:CYS:N	2.76	0.42
1:C:87:ASP:O	1:C:89:SER:N	2.46	0.42
1:C:268:GLN:O	1:C:269:GLU:C	2.62	0.42
1:C:282:ASN:HA	1:C:404:ARG:HA	2.02	0.42
1:E:525:ASP:OD1	1:E:525:ASP:C	2.63	0.42
3:F:646:LEU:HD12	3:F:646:LEU:HA	1.85	0.42
3:G:204:GLN:H	3:G:204:GLN:HG3	1.34	0.42
3:H:106:LEU:CD1	3:H:592:LEU:HD11	2.50	0.42
3:I:459:MET:CE	3:J:459:MET:HG3	2.50	0.42
3:J:379:ARG:HA	3:J:379:ARG:HD2	1.72	0.42
3:J:507:VAL:HG23	3:J:508:VAL:N	2.35	0.42
3:J:864:LEU:HD12	3:J:864:LEU:HA	1.70	0.42
3:K:373:LEU:HB3	3:K:379:ARG:HD3	2.01	0.42
3:L:789:ARG:H	3:L:789:ARG:HG2	1.66	0.42
3:L:921:VAL:HG23	3:L:922:PHE:N	2.35	0.42
3:N:507:VAL:HG23	3:N:508:VAL:N	2.35	0.42
3:O:17:GLN:HB3	3:O:21:GLU:HB2	2.01	0.42
3:O:590:MET:HE3	3:O:590:MET:HB3	1.93	0.42
3:Q:921:VAL:HG23	3:Q:922:PHE:N	2.35	0.42
1:B:75:LYS:HE2	1:B:75:LYS:HB3	1.88	0.42
1:B:126:ILE:HG12	1:B:523:LEU:CD2	2.49	0.42
1:C:228:PRO:HG3	2:T:15:TYR:CD1	2.55	0.42
1:C:243:LEU:HD23	1:C:243:LEU:HA	1.82	0.42
2:T:15:TYR:HD2	2:T:15:TYR:C	2.28	0.42
2:V:15:TYR:HD2	2:V:15:TYR:C	2.27	0.42
3:F:459:MET:CE	3:G:459:MET:HG3	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:505:LYS:O	3:F:506:ARG:C	2.60	0.42
3:G:5:MET:C	3:G:7:PRO:HD2	2.44	0.42
3:G:459:MET:CE	3:H:459:MET:HG3	2.50	0.42
3:H:248:ILE:HD12	3:H:289:ASP:C	2.45	0.42
3:I:755:VAL:CG2	3:I:756:ALA:H	2.29	0.42
3:I:755:VAL:CG2	3:I:756:ALA:N	2.83	0.42
3:J:250:VAL:O	3:J:250:VAL:HG12	2.20	0.42
3:K:746:ARG:HH11	3:K:753:TYR:HB2	1.75	0.42
3:L:248:ILE:HD12	3:L:289:ASP:C	2.45	0.42
3:L:390:VAL:O	3:L:541:GLY:HA3	2.19	0.42
3:N:5:MET:C	3:N:7:PRO:HD2	2.44	0.42
3:O:921:VAL:HG23	3:O:922:PHE:N	2.35	0.42
3:P:250:VAL:O	3:P:250:VAL:HG12	2.20	0.42
3:P:283:VAL:CG1	3:P:284:VAL:N	2.81	0.42
3:Q:497:PRO:HA	3:Q:502:TYR:CD2	2.54	0.42
1:A:228:PRO:HG3	2:W:15:TYR:CD1	2.55	0.41
1:A:553:TYR:CZ	1:B:424:LEU:HD21	2.55	0.41
1:B:99:ASN:OD1	1:B:99:ASN:C	2.62	0.41
1:B:243:LEU:HD23	1:B:243:LEU:HA	1.82	0.41
1:C:493:THR:HG21	1:C:495:VAL:HG22	2.02	0.41
1:C:523:LEU:HD23	1:C:523:LEU:HA	1.93	0.41
1:D:197:ARG:C	1:D:199:ASN:H	2.28	0.41
1:D:278:LEU:C	1:D:279:GLU:O	2.60	0.41
1:E:224:GLY:O	1:E:399:THR:HB	2.20	0.41
3:F:106:LEU:CD1	3:F:592:LEU:HD11	2.51	0.41
3:F:373:LEU:HB3	3:F:379:ARG:HD3	2.01	0.41
3:G:507:VAL:HG23	3:G:508:VAL:N	2.35	0.41
3:G:858:ILE:HD12	3:G:858:ILE:HA	1.84	0.41
3:H:469:ARG:NH2	3:H:828:VAL:CG2	2.82	0.41
3:H:574:LEU:HG	3:H:929:ARG:NE	2.26	0.41
3:H:690:LEU:HD23	3:H:690:LEU:HA	1.86	0.41
3:H:921:VAL:HG23	3:H:922:PHE:N	2.35	0.41
3:I:131:PRO:HB3	3:I:169:GLY:HA2	2.01	0.41
3:I:810:TYR:CE1	3:I:855:VAL:HG12	2.55	0.41
3:J:519:LEU:HD23	3:J:519:LEU:HA	1.88	0.41
3:L:373:LEU:HB3	3:L:379:ARG:HD3	2.01	0.41
3:M:599:ASP:OD1	3:M:601:ARG:HG3	2.19	0.41
3:N:248:ILE:HD12	3:N:289:ASP:C	2.45	0.41
3:N:587:ASP:CG	3:N:601:ARG:HH11	2.27	0.41
3:N:755:VAL:HB	3:N:762:LYS:HG2	2.02	0.41
3:O:459:MET:HG3	3:Q:459:MET:CE	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:507:VAL:HG23	3:P:508:VAL:N	2.35	0.41
1:A:549:ARG:O	1:A:550:THR:C	2.63	0.41
1:B:79:VAL:HG13	1:C:267:PHE:CD2	2.54	0.41
1:D:243:LEU:CG	1:D:403:TYR:CE2	3.03	0.41
1:D:553:TYR:CZ	1:E:424:LEU:HD21	2.54	0.41
1:E:268:GLN:O	1:E:269:GLU:C	2.62	0.41
1:E:493:THR:HG21	1:E:495:VAL:HG22	2.02	0.41
3:G:248:ILE:HD12	3:G:289:ASP:C	2.45	0.41
3:G:361:GLN:NE2	3:G:691:GLY:HA2	2.35	0.41
3:J:469:ARG:NH2	3:J:828:VAL:CG2	2.82	0.41
3:J:845:PHE:CG	3:J:846:PRO:HA	2.55	0.41
3:K:248:ILE:HD12	3:K:289:ASP:C	2.45	0.41
3:K:921:VAL:HG23	3:K:922:PHE:N	2.35	0.41
3:L:361:GLN:NE2	3:L:691:GLY:HA2	2.35	0.41
3:L:459:MET:CE	3:M:459:MET:HG3	2.50	0.41
3:L:587:ASP:CG	3:L:601:ARG:HH11	2.27	0.41
3:L:819:LEU:HD23	3:L:819:LEU:HA	1.86	0.41
3:M:5:MET:C	3:M:7:PRO:HD2	2.44	0.41
3:N:373:LEU:HB3	3:N:379:ARG:HD3	2.01	0.41
3:O:106:LEU:CD1	3:O:592:LEU:HD11	2.51	0.41
3:O:373:LEU:HB3	3:O:379:ARG:HD3	2.01	0.41
3:O:379:ARG:HD2	3:O:379:ARG:HA	1.72	0.41
3:P:106:LEU:CD1	3:P:592:LEU:HD11	2.50	0.41
3:P:845:PHE:CG	3:P:846:PRO:HA	2.55	0.41
3:Q:792:SER:O	3:Q:796:ASN:ND2	2.46	0.41
1:A:58:SER:OG	1:A:59:GLU:N	2.52	0.41
1:A:109:GLN:C	1:A:110:THR:HG23	2.45	0.41
1:A:224:GLY:O	1:A:399:THR:HB	2.20	0.41
1:A:234:GLU:OE1	1:E:487:ARG:NH2	2.52	0.41
1:A:267:PHE:CD2	1:E:79:VAL:HG13	2.56	0.41
1:A:450:THR:HG22	1:E:57:TYR:CE2	2.54	0.41
1:B:63:LEU:C	1:B:64:PHE:CD2	2.99	0.41
1:B:117:SER:HA	1:B:568:SER:HA	2.02	0.41
1:B:197:ARG:C	1:B:199:ASN:H	2.28	0.41
1:D:69:VAL:HG22	1:D:561:VAL:HB	2.00	0.41
1:E:177:GLU:HG3	1:E:178:THR:H	1.82	0.41
1:E:476:TYR:CE2	1:E:478:ASP:CG	2.99	0.41
3:F:57:THR:CG2	3:F:59:ARG:NH1	2.79	0.41
3:H:75:THR:HG23	3:H:76:ALA:N	2.32	0.41
3:H:373:LEU:HB3	3:H:379:ARG:HD3	2.01	0.41
3:H:587:ASP:CG	3:H:601:ARG:HH11	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:845:PHE:CG	3:H:846:PRO:HA	2.56	0.41
3:I:221:ARG:HG2	3:J:841:TYR:CZ	2.55	0.41
3:I:841:TYR:CZ	3:K:221:ARG:HG2	2.56	0.41
3:J:755:VAL:HB	3:J:762:LYS:HG2	2.02	0.41
3:K:101:ASP:CG	3:K:558:HIS:HE2	2.23	0.41
3:K:250:VAL:O	3:K:250:VAL:HG12	2.20	0.41
3:L:459:MET:HG3	3:N:459:MET:CE	2.50	0.41
3:L:845:PHE:CG	3:L:846:PRO:HA	2.56	0.41
3:M:845:PHE:CG	3:M:846:PRO:HA	2.55	0.41
3:N:858:ILE:HD12	3:N:858:ILE:HA	1.84	0.41
3:O:459:MET:CE	3:P:459:MET:HG3	2.50	0.41
3:O:507:VAL:HG23	3:O:508:VAL:N	2.35	0.41
3:P:74:ASP:OD1	3:P:586:LYS:NZ	2.30	0.41
3:P:459:MET:CE	3:Q:459:MET:HG3	2.50	0.41
3:P:819:LEU:HD23	3:P:819:LEU:HA	1.86	0.41
3:Q:101:ASP:CG	3:Q:558:HIS:HE2	2.23	0.41
3:Q:379:ARG:HA	3:Q:379:ARG:HD2	1.72	0.41
1:A:117:SER:HA	1:A:568:SER:HA	2.02	0.41
1:A:150:SER:OG	1:A:162:LYS:HB2	2.21	0.41
1:A:493:THR:HG21	1:A:495:VAL:HG22	2.02	0.41
1:B:109:GLN:C	1:B:110:THR:HG23	2.45	0.41
1:B:137:PHE:HE1	1:B:549:ARG:NE	2.18	0.41
1:C:63:LEU:C	1:C:64:PHE:CD2	2.99	0.41
1:C:96:ILE:HA	1:C:96:ILE:HD13	1.82	0.41
1:C:109:GLN:C	1:C:110:THR:HG23	2.45	0.41
1:C:150:SER:OG	1:C:162:LYS:HB2	2.21	0.41
1:C:393:LEU:HD23	1:C:393:LEU:HA	1.83	0.41
1:C:430:VAL:HG13	1:C:515:THR:HB	2.01	0.41
1:C:544:THR:HG21	1:C:548:ARG:HD2	2.02	0.41
1:E:255:LEU:O	1:E:256:SER:C	2.61	0.41
3:F:221:ARG:HG2	3:G:841:TYR:CZ	2.55	0.41
3:F:755:VAL:CG2	3:F:756:ALA:N	2.83	0.41
3:G:229:MET:O	3:G:230:LYS:HD3	2.21	0.41
3:G:373:LEU:HB3	3:G:379:ARG:HD3	2.01	0.41
3:H:17:GLN:HB3	3:H:21:GLU:HB2	2.01	0.41
3:I:373:LEU:HD23	3:I:373:LEU:HA	1.77	0.41
3:J:361:GLN:NE2	3:J:691:GLY:HA2	2.34	0.41
3:J:858:ILE:HD12	3:J:858:ILE:HA	1.84	0.41
3:K:810:TYR:CE1	3:K:855:VAL:HG12	2.54	0.41
3:L:792:SER:O	3:L:796:ASN:ND2	2.46	0.41
3:M:755:VAL:CG2	3:M:756:ALA:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:106:LEU:CD1	3:N:592:LEU:HD11	2.50	0.41
3:N:845:PHE:CG	3:N:846:PRO:HA	2.56	0.41
3:O:361:GLN:NE2	3:O:691:GLY:HA2	2.35	0.41
3:P:221:ARG:HG2	3:Q:841:TYR:CZ	2.56	0.41
3:Q:250:VAL:O	3:Q:250:VAL:HG12	2.20	0.41
1:A:278:LEU:C	1:A:279:GLU:O	2.60	0.41
1:A:282:ASN:HA	1:A:404:ARG:HA	2.02	0.41
1:B:224:GLY:O	1:B:399:THR:HB	2.20	0.41
1:C:177:GLU:HG3	1:C:178:THR:H	1.82	0.41
1:C:211:ASP:C	1:C:212:THR:CG2	2.94	0.41
1:D:217:LEU:HA	1:D:217:LEU:HD23	1.74	0.41
1:E:211:ASP:C	1:E:212:THR:CG2	2.94	0.41
1:E:512:THR:O	1:E:513:ILE:CB	2.63	0.41
3:I:229:MET:O	3:I:230:LYS:HD3	2.21	0.41
3:L:519:LEU:HA	3:L:519:LEU:HD23	1.88	0.41
3:M:459:MET:CE	3:N:459:MET:HG3	2.50	0.41
3:O:221:ARG:HG2	3:P:841:TYR:CZ	2.56	0.41
3:O:248:ILE:HD12	3:O:289:ASP:C	2.45	0.41
3:O:373:LEU:HD23	3:O:373:LEU:HA	1.77	0.41
1:A:63:LEU:C	1:A:64:PHE:CD2	2.99	0.41
1:A:96:ILE:HA	1:A:96:ILE:HD13	1.82	0.41
1:A:183:LEU:HD21	1:B:236:PHE:CE2	2.47	0.41
1:A:243:LEU:CG	1:A:403:TYR:CE2	3.03	0.41
1:B:177:GLU:O	1:B:178:THR:C	2.63	0.41
1:B:386:SER:C	1:B:388:LYS:N	2.76	0.41
1:B:525:ASP:OD1	1:B:525:ASP:C	2.63	0.41
1:C:197:ARG:C	1:C:199:ASN:H	2.28	0.41
1:C:208:VAL:HG22	1:C:242:LEU:HD22	2.03	0.41
1:C:441:LEU:O	1:C:443:ASP:N	2.54	0.41
1:D:114:ASP:OD2	1:D:116:ARG:NH1	2.54	0.41
1:D:525:ASP:OD1	1:D:525:ASP:C	2.63	0.41
1:E:63:LEU:C	1:E:64:PHE:CD2	2.99	0.41
2:U:15:TYR:HD2	2:U:15:TYR:C	2.28	0.41
3:G:445:PHE:CE2	3:H:165:THR:CG2	3.04	0.41
3:G:469:ARG:NH2	3:G:828:VAL:CG2	2.82	0.41
3:G:755:VAL:HB	3:G:762:LYS:HG2	2.02	0.41
3:H:755:VAL:HB	3:H:762:LYS:HG2	2.02	0.41
3:I:106:LEU:CD1	3:I:592:LEU:HD11	2.51	0.41
3:I:507:VAL:HG23	3:I:508:VAL:N	2.35	0.41
3:J:229:MET:O	3:J:230:LYS:HD3	2.21	0.41
3:J:587:ASP:CG	3:J:601:ARG:HH11	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:131:PRO:HB3	3:K:169:GLY:HA2	2.01	0.41
3:K:845:PHE:CG	3:K:846:PRO:HA	2.56	0.41
3:L:755:VAL:CG2	3:L:756:ALA:N	2.83	0.41
3:M:106:LEU:CD1	3:M:592:LEU:HD11	2.51	0.41
3:M:248:ILE:HD12	3:M:289:ASP:C	2.45	0.41
3:M:445:PHE:CE2	3:N:165:THR:CG2	3.04	0.41
3:O:229:MET:O	3:O:230:LYS:HD3	2.21	0.41
3:O:463:LEU:HD23	3:O:463:LEU:HA	1.83	0.41
3:O:841:TYR:CZ	3:Q:221:ARG:HG2	2.56	0.41
3:P:834:THR:HB	3:P:835:MET:H	1.74	0.41
3:Q:5:MET:C	3:Q:7:PRO:HD2	2.44	0.41
1:A:132:PRO:CD	1:A:553:TYR:CE2	3.02	0.41
1:A:196:GLY:O	1:A:201:VAL:HG12	2.21	0.41
1:A:228:PRO:HB3	2:W:15:TYR:HE1	1.84	0.41
1:B:211:ASP:C	1:B:212:THR:CG2	2.94	0.41
1:C:135:ASN:N	1:C:140:THR:OG1	2.54	0.41
1:C:565:VAL:CG1	1:C:566:LEU:N	2.84	0.41
1:D:135:ASN:N	1:D:140:THR:OG1	2.54	0.41
1:D:255:LEU:O	1:D:256:SER:C	2.61	0.41
1:E:217:LEU:HD23	1:E:217:LEU:HA	1.74	0.41
3:F:361:GLN:NE2	3:F:691:GLY:HA2	2.35	0.41
3:F:459:MET:HG3	3:H:459:MET:CE	2.50	0.41
3:F:810:TYR:CE1	3:F:855:VAL:HG12	2.55	0.41
3:F:845:PHE:CG	3:F:846:PRO:HA	2.56	0.41
3:F:921:VAL:HG23	3:F:922:PHE:N	2.35	0.41
3:G:106:LEU:CD1	3:G:592:LEU:HD11	2.51	0.41
3:H:354:LEU:HD13	3:H:355:ASN:N	2.36	0.41
3:I:17:GLN:HB3	3:I:21:GLU:HB2	2.01	0.41
3:I:248:ILE:HD12	3:I:289:ASP:C	2.45	0.41
3:I:445:PHE:CE2	3:J:165:THR:CG2	3.04	0.41
3:I:755:VAL:HB	3:I:762:LYS:HG2	2.02	0.41
3:J:921:VAL:HG23	3:J:922:PHE:N	2.35	0.41
3:K:17:GLN:HB3	3:K:21:GLU:HB2	2.01	0.41
3:K:91:ARG:HH11	3:K:91:ARG:CG	2.24	0.41
3:K:354:LEU:HD13	3:K:355:ASN:N	2.36	0.41
3:K:590:MET:HE3	3:K:590:MET:HB3	1.93	0.41
3:L:106:LEU:CD1	3:L:592:LEU:HD11	2.51	0.41
3:M:566:PHE:CE2	3:M:925:VAL:CG2	3.01	0.41
3:M:929:ARG:CZ	3:M:929:ARG:CB	2.98	0.41
3:N:229:MET:O	3:N:230:LYS:HD3	2.21	0.41
3:O:845:PHE:CG	3:O:846:PRO:HA	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:248:ILE:HD12	3:Q:289:ASP:C	2.45	0.41
3:Q:361:GLN:NE2	3:Q:691:GLY:HA2	2.35	0.41
1:A:394:ILE:HD11	1:A:398:SER:CB	2.51	0.41
1:A:407:TYR:O	1:A:411:ASN:OD1	2.39	0.41
1:A:419:ILE:C	1:A:421:SER:H	2.29	0.41
1:A:436:GLN:HG2	1:E:558:LEU:CD2	2.50	0.41
1:A:481:VAL:O	1:A:481:VAL:CG1	2.66	0.41
1:A:525:ASP:OD1	1:A:525:ASP:C	2.63	0.41
1:B:407:TYR:O	1:B:411:ASN:OD1	2.39	0.41
1:B:493:THR:HG21	1:B:495:VAL:HG22	2.02	0.41
1:C:73:ASP:OD1	1:C:73:ASP:N	2.53	0.41
1:C:476:TYR:CE2	1:C:478:ASP:CG	2.99	0.41
1:D:476:TYR:CE2	1:D:478:ASP:CG	2.99	0.41
1:D:481:VAL:CG1	1:D:481:VAL:O	2.66	0.41
1:E:69:VAL:HG22	1:E:561:VAL:HB	2.00	0.41
1:E:114:ASP:OD2	1:E:116:ARG:NH1	2.54	0.41
2:S:15:TYR:HD2	2:S:15:TYR:C	2.28	0.41
3:F:12:MET:HG3	3:G:940:LEU:HD23	2.03	0.41
3:F:204:GLN:H	3:F:204:GLN:HG3	1.34	0.41
3:F:445:PHE:CE2	3:G:165:THR:CG2	3.04	0.41
3:G:283:VAL:CG1	3:G:284:VAL:N	2.81	0.41
3:G:818:ILE:H	3:G:818:ILE:HG13	1.47	0.41
3:H:755:VAL:CG2	3:H:756:ALA:N	2.83	0.41
3:I:587:ASP:CG	3:I:601:ARG:HH11	2.27	0.41
3:J:248:ILE:HD12	3:J:289:ASP:C	2.45	0.41
3:J:445:PHE:CE2	3:K:165:THR:CG2	3.04	0.41
3:K:68:ILE:CB	3:M:73:GLU:CD	2.94	0.41
3:K:354:LEU:CD1	3:K:355:ASN:N	2.84	0.41
3:K:587:ASP:CG	3:K:601:ARG:HH11	2.27	0.41
3:L:12:MET:HG3	3:M:940:LEU:HD23	2.03	0.41
3:L:354:LEU:CD1	3:L:355:ASN:N	2.84	0.41
3:L:507:VAL:HG23	3:L:508:VAL:N	2.35	0.41
3:L:810:TYR:CE1	3:L:855:VAL:HG12	2.55	0.41
3:M:221:ARG:HG2	3:N:841:TYR:CZ	2.55	0.41
3:N:354:LEU:CD1	3:N:355:ASN:N	2.84	0.41
3:N:646:LEU:HD12	3:N:646:LEU:HA	1.85	0.41
3:P:587:ASP:CG	3:P:601:ARG:HH11	2.27	0.41
3:P:858:ILE:HD12	3:P:858:ILE:HA	1.84	0.41
3:Q:229:MET:O	3:Q:230:LYS:HD3	2.21	0.41
1:A:114:ASP:OD2	1:A:116:ARG:NH1	2.54	0.41
1:A:129:THR:HB	1:A:130:ASN:H	1.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:137:PHE:HE1	1:A:549:ARG:NE	2.18	0.41
1:A:197:ARG:C	1:A:199:ASN:H	2.28	0.41
1:A:460:PHE:O	1:A:548:ARG:NH2	2.50	0.41
1:A:476:TYR:CE2	1:A:478:ASP:CG	2.99	0.41
1:B:96:ILE:HG22	1:B:98:ASN:N	2.29	0.41
1:B:114:ASP:OD2	1:B:116:ARG:NH1	2.54	0.41
1:B:150:SER:OG	1:B:162:LYS:HB2	2.21	0.41
1:B:154:THR:CG2	1:B:155:LYS:H	2.34	0.41
1:B:196:GLY:O	1:B:201:VAL:HG12	2.21	0.41
1:B:430:VAL:C	1:B:432:CYS:N	2.76	0.41
1:C:64:PHE:CD1	1:D:118:HIS:NE2	2.88	0.41
1:C:114:ASP:OD2	1:C:116:ARG:NH1	2.54	0.41
1:C:196:GLY:O	1:C:201:VAL:HG12	2.21	0.41
1:C:243:LEU:CG	1:C:403:TYR:CE2	3.03	0.41
1:C:394:ILE:HD11	1:C:398:SER:CB	2.51	0.41
1:C:424:LEU:CD2	1:C:425:LEU:N	2.80	0.41
1:C:443:ASP:HB2	1:C:539:GLN:OE1	2.21	0.41
1:D:63:LEU:C	1:D:64:PHE:CD2	2.99	0.41
1:D:394:ILE:HD11	1:D:398:SER:CB	2.51	0.41
1:E:137:PHE:HE1	1:E:549:ARG:NE	2.18	0.41
1:E:150:SER:OG	1:E:162:LYS:HB2	2.20	0.41
1:E:394:ILE:HD11	1:E:398:SER:CB	2.51	0.41
1:E:441:LEU:O	1:E:443:ASP:N	2.54	0.41
1:E:549:ARG:O	1:E:550:THR:C	2.63	0.41
2:S:18:ASP:O	2:S:19:THR:HB	2.21	0.41
3:F:73:GLU:CG	3:L:68:ILE:HG21	2.46	0.41
3:F:165:THR:CG2	3:H:445:PHE:CE2	3.04	0.41
3:F:426:THR:N	3:G:267:SER:O	2.39	0.41
3:F:507:VAL:HG23	3:F:508:VAL:N	2.35	0.41
3:G:12:MET:HG3	3:H:940:LEU:HD23	2.03	0.41
3:G:196:ASP:OD1	3:G:198:THR:OG1	2.32	0.41
3:G:250:VAL:O	3:G:250:VAL:HG12	2.20	0.41
3:G:413:CYS:HG	3:G:459:MET:HB2	1.82	0.41
3:G:566:PHE:CE2	3:G:925:VAL:CG2	3.01	0.41
3:G:845:PHE:CG	3:G:846:PRO:HA	2.55	0.41
3:H:229:MET:O	3:H:230:LYS:HD3	2.21	0.41
3:I:165:THR:CG2	3:K:445:PHE:CE2	3.04	0.41
3:I:250:VAL:O	3:I:250:VAL:HG12	2.20	0.41
3:I:469:ARG:NH2	3:I:828:VAL:CG2	2.82	0.41
3:J:106:LEU:CD1	3:J:592:LEU:HD11	2.51	0.41
3:J:354:LEU:CD1	3:J:355:ASN:N	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:106:LEU:CD1	3:K:592:LEU:HD11	2.50	0.41
3:K:229:MET:O	3:K:230:LYS:HD3	2.21	0.41
3:L:445:PHE:CE2	3:M:165:THR:CG2	3.04	0.41
3:L:574:LEU:HG	3:L:929:ARG:NE	2.26	0.41
3:M:173:TYR:CD1	3:M:173:TYR:C	2.99	0.41
3:M:229:MET:O	3:M:230:LYS:HD3	2.21	0.41
3:M:250:VAL:O	3:M:250:VAL:HG12	2.20	0.41
3:M:298:HIS:ND1	3:M:321:ASN:OD1	2.48	0.41
3:M:921:VAL:HG23	3:M:922:PHE:N	2.35	0.41
3:N:173:TYR:CD1	3:N:173:TYR:C	2.99	0.41
3:N:250:VAL:HG12	3:N:250:VAL:O	2.20	0.41
3:N:929:ARG:CZ	3:N:929:ARG:CB	2.98	0.41
3:O:573:LEU:HD12	3:O:573:LEU:HA	1.90	0.41
3:O:755:VAL:HB	3:O:762:LYS:HG2	2.02	0.41
3:O:940:LEU:HD23	3:Q:12:MET:HG3	2.03	0.41
3:P:173:TYR:CD1	3:P:173:TYR:C	2.99	0.41
3:P:229:MET:O	3:P:230:LYS:HD3	2.21	0.41
3:P:373:LEU:HD23	3:P:373:LEU:HA	1.77	0.41
3:P:690:LEU:HD23	3:P:690:LEU:HA	1.86	0.41
3:P:929:ARG:HB2	3:P:929:ARG:HH11	1.82	0.41
3:Q:74:ASP:OD1	3:Q:586:LYS:NZ	2.30	0.41
3:Q:106:LEU:CD1	3:Q:592:LEU:HD11	2.50	0.41
3:Q:354:LEU:HD13	3:Q:355:ASN:N	2.36	0.41
3:Q:755:VAL:CG2	3:Q:756:ALA:N	2.83	0.41
1:A:403:TYR:CE1	1:A:504:ILE:HG12	2.56	0.41
1:A:443:ASP:HB2	1:A:539:GLN:OE1	2.21	0.41
1:B:441:LEU:O	1:B:443:ASP:N	2.54	0.41
1:C:525:ASP:C	1:C:525:ASP:OD1	2.63	0.41
1:E:443:ASP:HB2	1:E:539:GLN:OE1	2.21	0.41
3:G:755:VAL:CG2	3:G:756:ALA:N	2.83	0.41
3:K:298:HIS:ND1	3:K:321:ASN:OD1	2.48	0.41
3:K:523:TRP:CE2	3:K:862:LYS:HE2	2.56	0.41
3:K:755:VAL:HB	3:K:762:LYS:HG2	2.02	0.41
3:L:221:ARG:HG2	3:M:841:TYR:CZ	2.55	0.41
3:M:352:SER:C	3:M:354:LEU:N	2.79	0.41
3:N:354:LEU:HD13	3:N:355:ASN:N	2.36	0.41
3:N:505:LYS:O	3:N:506:ARG:C	2.61	0.41
3:N:921:VAL:HG23	3:N:922:PHE:N	2.35	0.41
3:O:755:VAL:CG2	3:O:756:ALA:N	2.83	0.41
3:P:361:GLN:NE2	3:P:691:GLY:HA2	2.35	0.41
3:P:445:PHE:CE2	3:Q:165:THR:CG2	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:818:ILE:H	3:P:818:ILE:HG13	1.47	0.41
3:Q:507:VAL:HG23	3:Q:508:VAL:N	2.35	0.41
3:Q:845:PHE:CG	3:Q:846:PRO:HA	2.56	0.41
1:A:83:ASN:OD1	1:A:92:LEU:N	2.38	0.40
1:A:211:ASP:C	1:A:212:THR:CG2	2.94	0.40
1:A:438:TYR:HD1	1:A:462:VAL:HG21	1.86	0.40
1:A:441:LEU:O	1:A:443:ASP:N	2.54	0.40
1:B:149:VAL:HG13	1:B:195:VAL:HG11	2.03	0.40
1:B:225:LEU:HD23	1:B:399:THR:HB	2.03	0.40
1:B:375:LYS:O	1:B:376:LYS:CG	2.69	0.40
1:B:394:ILE:HD11	1:B:398:SER:CB	2.51	0.40
1:C:154:THR:CG2	1:C:155:LYS:H	2.34	0.40
1:D:386:SER:C	1:D:388:LYS:H	2.30	0.40
1:D:487:ARG:NH2	1:E:234:GLU:CD	2.75	0.40
1:E:196:GLY:O	1:E:201:VAL:HG12	2.21	0.40
1:E:208:VAL:HG22	1:E:242:LEU:HD22	2.03	0.40
2:T:12:ASN:HA	2:T:13:PRO:HD3	1.90	0.40
2:W:18:ASP:O	2:W:19:THR:HB	2.21	0.40
3:F:12:MET:HE3	3:G:924:VAL:HG12	2.03	0.40
3:G:221:ARG:HG2	3:H:841:TYR:CZ	2.56	0.40
3:G:646:LEU:HD12	3:G:646:LEU:HA	1.85	0.40
3:H:354:LEU:CD1	3:H:355:ASN:N	2.84	0.40
3:I:354:LEU:HD13	3:I:355:ASN:N	2.36	0.40
3:I:459:MET:HG3	3:K:459:MET:CE	2.50	0.40
3:I:566:PHE:CE2	3:I:925:VAL:CG2	3.01	0.40
3:I:921:VAL:HG23	3:I:922:PHE:N	2.35	0.40
3:M:12:MET:HE3	3:N:924:VAL:HG12	2.03	0.40
3:M:248:ILE:HD12	3:M:290:VAL:CA	2.52	0.40
3:M:523:TRP:CE2	3:M:862:LYS:HE2	2.56	0.40
3:N:525:LEU:HD23	3:N:525:LEU:HA	1.92	0.40
3:N:566:PHE:CE2	3:N:925:VAL:CG2	3.01	0.40
3:O:12:MET:HE3	3:P:924:VAL:HG12	2.04	0.40
3:P:354:LEU:CD1	3:P:355:ASN:N	2.84	0.40
3:P:755:VAL:HB	3:P:762:LYS:HG2	2.02	0.40
3:Q:354:LEU:CD1	3:Q:355:ASN:N	2.84	0.40
3:Q:755:VAL:HB	3:Q:762:LYS:HG2	2.02	0.40
1:B:177:GLU:HG3	1:B:178:THR:H	1.82	0.40
1:B:481:VAL:O	1:B:481:VAL:CG1	2.66	0.40
1:B:544:THR:CG2	1:B:548:ARG:CA	2.93	0.40
1:C:149:VAL:HG13	1:C:195:VAL:HG11	2.03	0.40
1:C:224:GLY:O	1:C:399:THR:HB	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:224:GLY:O	1:D:399:THR:HB	2.21	0.40
1:D:282:ASN:HA	1:D:404:ARG:HA	2.02	0.40
3:F:30:PHE:CD1	3:F:30:PHE:C	3.00	0.40
3:F:250:VAL:HG12	3:F:250:VAL:O	2.20	0.40
3:F:429:LYS:N	3:F:439:GLU:O	2.43	0.40
3:F:486:TYR:CZ	3:F:507:VAL:HG22	2.57	0.40
3:F:841:TYR:CZ	3:H:221:ARG:HG2	2.56	0.40
3:F:940:LEU:HD23	3:H:12:MET:HG3	2.04	0.40
3:G:30:PHE:CD1	3:G:30:PHE:C	3.00	0.40
3:G:173:TYR:CD1	3:G:173:TYR:C	2.99	0.40
3:H:507:VAL:HG23	3:H:508:VAL:N	2.35	0.40
3:H:818:ILE:H	3:H:818:ILE:HG13	1.47	0.40
3:I:12:MET:HG3	3:J:940:LEU:HD23	2.03	0.40
3:I:173:TYR:CD1	3:I:173:TYR:C	2.99	0.40
3:I:523:TRP:CE2	3:I:862:LYS:HE2	2.56	0.40
3:J:173:TYR:CD1	3:J:173:TYR:C	2.99	0.40
3:K:566:PHE:CE2	3:K:925:VAL:CG2	3.01	0.40
3:K:758:CYS:HB3	3:K:799:PRO:HB3	2.03	0.40
3:L:354:LEU:HD13	3:L:355:ASN:N	2.36	0.40
3:L:841:TYR:CZ	3:N:221:ARG:HG2	2.56	0.40
3:M:758:CYS:HB3	3:M:799:PRO:HB3	2.04	0.40
3:O:101:ASP:CG	3:O:558:HIS:HE2	2.22	0.40
3:O:354:LEU:CD1	3:O:355:ASN:N	2.84	0.40
3:O:445:PHE:CE2	3:P:165:THR:CG2	3.04	0.40
3:O:858:ILE:HD12	3:O:858:ILE:HA	1.84	0.40
3:Q:758:CYS:HB3	3:Q:799:PRO:HB3	2.03	0.40
1:A:424:LEU:CD2	1:A:425:LEU:N	2.80	0.40
1:B:57:TYR:CD2	1:C:450:THR:HG22	2.56	0.40
1:B:277:ASP:O	1:B:279:GLU:N	2.46	0.40
1:B:443:ASP:HB2	1:B:539:GLN:OE1	2.21	0.40
1:D:88:HIS:CD2	1:E:267:PHE:CZ	3.09	0.40
1:D:137:PHE:HE1	1:D:549:ARG:NE	2.18	0.40
1:D:154:THR:CG2	1:D:155:LYS:H	2.34	0.40
1:E:220:ASP:HB3	1:E:223:THR:HB	2.04	0.40
1:E:225:LEU:HD23	1:E:399:THR:HB	2.03	0.40
3:F:792:SER:O	3:F:796:ASN:ND2	2.46	0.40
3:F:900:LEU:HD21	3:F:902:MET:HE2	2.04	0.40
3:G:354:LEU:HD13	3:G:355:ASN:N	2.36	0.40
3:G:870:TRP:CE3	3:G:870:TRP:HA	2.57	0.40
3:H:298:HIS:ND1	3:H:321:ASN:OD1	2.48	0.40
3:J:12:MET:HG3	3:K:940:LEU:HD23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:900:LEU:HD21	3:J:902:MET:HE2	2.04	0.40
3:K:373:LEU:HD23	3:K:373:LEU:HA	1.77	0.40
3:L:469:ARG:NH2	3:L:828:VAL:CG2	2.82	0.40
3:M:30:PHE:C	3:M:30:PHE:CD1	3.00	0.40
3:M:354:LEU:CD1	3:M:355:ASN:N	2.84	0.40
3:M:354:LEU:HD13	3:M:355:ASN:N	2.36	0.40
3:N:758:CYS:HB3	3:N:799:PRO:HB3	2.03	0.40
3:O:165:THR:CG2	3:Q:445:PHE:CE2	3.04	0.40
3:O:248:ILE:HD12	3:O:290:VAL:CA	2.52	0.40
3:O:354:LEU:HD13	3:O:355:ASN:N	2.36	0.40
3:O:523:TRP:CE2	3:O:862:LYS:HE2	2.56	0.40
3:P:57:THR:CG2	3:P:59:ARG:NH1	2.79	0.40
3:P:463:LEU:HD23	3:P:463:LEU:HA	1.83	0.40
3:Q:30:PHE:CD1	3:Q:30:PHE:C	3.00	0.40
3:Q:523:TRP:CE2	3:Q:862:LYS:HE2	2.56	0.40
1:A:135:ASN:N	1:A:140:THR:OG1	2.54	0.40
1:A:177:GLU:HG3	1:A:178:THR:H	1.82	0.40
1:A:220:ASP:HB3	1:A:223:THR:HB	2.04	0.40
1:A:386:SER:C	1:A:388:LYS:H	2.30	0.40
1:A:436:GLN:HE21	1:A:438:TYR:HE2	1.69	0.40
1:B:220:ASP:HB3	1:B:223:THR:HB	2.04	0.40
1:B:386:SER:C	1:B:388:LYS:H	2.30	0.40
1:B:419:ILE:C	1:B:421:SER:H	2.29	0.40
1:C:53:ASN:O	1:C:53:ASN:ND2	2.54	0.40
1:C:220:ASP:HB3	1:C:223:THR:HB	2.04	0.40
1:C:375:LYS:O	1:C:376:LYS:CG	2.70	0.40
1:C:407:TYR:O	1:C:411:ASN:OD1	2.39	0.40
1:D:211:ASP:C	1:D:212:THR:CG2	2.94	0.40
1:D:565:VAL:CG1	1:D:566:LEU:N	2.84	0.40
1:E:393:LEU:HD23	1:E:393:LEU:HA	1.83	0.40
1:E:438:TYR:HD1	1:E:462:VAL:HG21	1.86	0.40
1:E:476:TYR:HH	1:E:478:ASP:CG	2.28	0.40
3:F:173:TYR:CD1	3:F:173:TYR:C	2.99	0.40
3:F:354:LEU:CD1	3:F:355:ASN:N	2.84	0.40
3:F:389:ALA:HB3	3:F:545:ARG:HD3	2.03	0.40
3:F:415:PRO:HD3	3:F:457:PHE:O	2.22	0.40
3:G:354:LEU:CD1	3:G:355:ASN:N	2.84	0.40
3:I:548:LEU:HD12	3:I:548:LEU:HA	1.76	0.40
3:I:845:PHE:CG	3:I:846:PRO:HA	2.56	0.40
3:I:900:LEU:HD21	3:I:902:MET:HE2	2.04	0.40
3:J:459:MET:CE	3:K:459:MET:HG3	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:248:ILE:HD12	3:K:290:VAL:CA	2.52	0.40
3:L:173:TYR:CD1	3:L:173:TYR:C	2.99	0.40
3:L:229:MET:O	3:L:230:LYS:HD3	2.21	0.40
3:L:389:ALA:HB3	3:L:545:ARG:HD3	2.04	0.40
3:L:758:CYS:HB3	3:L:799:PRO:HB3	2.04	0.40
3:N:30:PHE:CD1	3:N:30:PHE:C	3.00	0.40
3:N:486:TYR:CZ	3:N:507:VAL:HG22	2.57	0.40
3:N:519:LEU:HD23	3:N:519:LEU:HA	1.88	0.40
3:O:12:MET:HG3	3:P:940:LEU:HD23	2.03	0.40
3:O:389:ALA:HB3	3:O:545:ARG:HD3	2.03	0.40
3:Q:870:TRP:CE3	3:Q:870:TRP:HA	2.57	0.40
1:A:154:THR:CG2	1:A:155:LYS:H	2.34	0.40
1:B:73:ASP:OD1	1:B:73:ASP:N	2.53	0.40
1:C:58:SER:OG	1:C:59:GLU:N	2.52	0.40
1:C:481:VAL:O	1:C:481:VAL:CG1	2.66	0.40
1:D:419:ILE:C	1:D:421:SER:H	2.29	0.40
1:D:493:THR:HG21	1:D:495:VAL:HG22	2.03	0.40
1:D:549:ARG:O	1:D:550:THR:C	2.63	0.40
1:E:197:ARG:CG	1:E:198:GLN:N	2.85	0.40
1:E:283:ILE:HG22	1:E:284:PRO:O	2.22	0.40
1:E:447:ASP:HA	1:E:448:PRO:HD3	1.88	0.40
3:G:248:ILE:HD12	3:G:290:VAL:CA	2.52	0.40
3:G:561:VAL:HA	3:G:562:PRO:HD3	1.91	0.40
3:G:690:LEU:HA	3:G:690:LEU:HD23	1.86	0.40
3:G:758:CYS:HB3	3:G:799:PRO:HB3	2.03	0.40
3:G:819:LEU:HD23	3:G:819:LEU:HA	1.86	0.40
3:H:250:VAL:O	3:H:250:VAL:HG12	2.20	0.40
3:H:646:LEU:HD12	3:H:646:LEU:HA	1.85	0.40
3:H:819:LEU:HD23	3:H:819:LEU:HA	1.86	0.40
3:I:30:PHE:CD1	3:I:30:PHE:C	3.00	0.40
3:J:30:PHE:C	3:J:30:PHE:CD1	3.00	0.40
3:J:57:THR:HG21	3:J:59:ARG:HD2	2.03	0.40
3:J:128:ALA:HA	3:J:129:PRO:HD3	1.95	0.40
3:J:389:ALA:HB3	3:J:545:ARG:HD3	2.04	0.40
3:J:415:PRO:HD3	3:J:457:PHE:O	2.22	0.40
3:K:486:TYR:CZ	3:K:507:VAL:HG22	2.57	0.40
3:L:12:MET:HE3	3:M:924:VAL:HG12	2.04	0.40
3:L:165:THR:CG2	3:N:445:PHE:CE2	3.04	0.40
3:L:929:ARG:CZ	3:L:929:ARG:CB	2.98	0.40
3:M:507:VAL:HG23	3:M:508:VAL:N	2.35	0.40
3:M:870:TRP:HA	3:M:870:TRP:CE3	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:352:SER:C	3:N:354:LEU:N	2.79	0.40
3:N:389:ALA:HB3	3:N:545:ARG:HD3	2.04	0.40
3:N:810:TYR:CE1	3:N:855:VAL:HG12	2.55	0.40
3:N:819:LEU:HD23	3:N:819:LEU:HA	1.86	0.40
3:N:900:LEU:HD21	3:N:902:MET:HE2	2.04	0.40
3:O:924:VAL:HG12	3:Q:12:MET:HE3	2.04	0.40
3:P:91:ARG:HH11	3:P:91:ARG:CG	2.24	0.40
3:P:248:ILE:HD12	3:P:290:VAL:CA	2.52	0.40
3:P:755:VAL:CG2	3:P:756:ALA:N	2.83	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	436/523 (83%)	321 (74%)	69 (16%)	46 (11%)	0	6
1	B	436/523 (83%)	321 (74%)	69 (16%)	46 (11%)	0	6
1	C	436/523 (83%)	321 (74%)	69 (16%)	46 (11%)	0	6
1	D	436/523 (83%)	321 (74%)	69 (16%)	46 (11%)	0	6
1	E	436/523 (83%)	321 (74%)	69 (16%)	46 (11%)	0	6
2	S	8/10 (80%)	5 (62%)	3 (38%)	0	100	100
2	T	8/10 (80%)	5 (62%)	3 (38%)	0	100	100
2	U	8/10 (80%)	5 (62%)	3 (38%)	0	100	100
2	V	8/10 (80%)	5 (62%)	3 (38%)	0	100	100
2	W	8/10 (80%)	5 (62%)	3 (38%)	0	100	100
3	F	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	18	56
3	G	870/951 (92%)	807 (93%)	57 (7%)	6 (1%)	18	56
3	H	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	18	56

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	I	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	18	56
3	J	870/951 (92%)	806 (93%)	58 (7%)	6 (1%)	18	56
3	K	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	18	56
3	L	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	18	56
3	M	870/951 (92%)	807 (93%)	57 (7%)	6 (1%)	18	56
3	N	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	18	56
3	O	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	18	56
3	P	870/951 (92%)	807 (93%)	57 (7%)	6 (1%)	18	56
3	Q	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	18	56
All	All	12660/14077 (90%)	11321 (89%)	1037 (8%)	302 (2%)	7	27

All (302) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	82	LEU
1	A	130	ASN
1	A	172	GLU
1	A	174	ASN
1	A	201	VAL
1	A	216	ARG
1	A	280	GLY
1	A	378	VAL
1	A	449	VAL
1	A	457	ILE
1	A	469	PRO
1	A	481	VAL
1	A	498	ARG
1	A	505	LEU
1	B	82	LEU
1	B	130	ASN
1	B	172	GLU
1	B	174	ASN
1	B	201	VAL
1	B	216	ARG
1	B	280	GLY
1	B	378	VAL
1	B	449	VAL
1	B	469	PRO
1	B	481	VAL

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Mol	Chain	Res	Type
1	B	498	ARG
1	C	82	LEU
1	C	130	ASN
1	C	172	GLU
1	C	174	ASN
1	C	201	VAL
1	C	216	ARG
1	C	280	GLY
1	C	378	VAL
1	C	449	VAL
1	C	457	ILE
1	C	469	PRO
1	C	481	VAL
1	C	498	ARG
1	C	505	LEU
1	D	82	LEU
1	D	130	ASN
1	D	172	GLU
1	D	174	ASN
1	D	201	VAL
1	D	216	ARG
1	D	280	GLY
1	D	378	VAL
1	D	449	VAL
1	D	457	ILE
1	D	469	PRO
1	D	481	VAL
1	D	498	ARG
1	E	82	LEU
1	E	130	ASN
1	E	172	GLU
1	E	174	ASN
1	E	201	VAL
1	E	216	ARG
1	E	280	GLY
1	E	378	VAL
1	E	449	VAL
1	E	457	ILE
1	E	469	PRO
1	E	481	VAL
1	E	498	ARG
3	F	6	MET

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Mol	Chain	Res	Type
3	F	748	VAL
3	G	6	MET
3	G	268	THR
3	G	748	VAL
3	H	6	MET
3	H	748	VAL
3	I	6	MET
3	I	748	VAL
3	J	6	MET
3	J	268	THR
3	J	748	VAL
3	K	6	MET
3	K	748	VAL
3	L	6	MET
3	L	748	VAL
3	M	6	MET
3	M	268	THR
3	M	748	VAL
3	N	6	MET
3	N	748	VAL
3	O	6	MET
3	O	748	VAL
3	P	6	MET
3	P	268	THR
3	P	748	VAL
3	Q	6	MET
3	Q	748	VAL
1	A	58	SER
1	A	84	TYR
1	A	175	TYR
1	A	196	GLY
1	A	215	PHE
1	A	219	PHE
1	A	251	THR
1	A	279	GLU
1	A	379	ILE
1	A	387	LYS
1	A	388	LYS
1	A	428	PRO
1	A	442	PRO
1	B	58	SER
1	B	84	TYR

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Mol	Chain	Res	Type
1	B	175	TYR
1	B	196	GLY
1	B	215	PHE
1	B	219	PHE
1	B	251	THR
1	B	279	GLU
1	B	379	ILE
1	B	387	LYS
1	B	388	LYS
1	B	428	PRO
1	B	442	PRO
1	B	457	ILE
1	B	505	LEU
1	C	58	SER
1	C	84	TYR
1	C	175	TYR
1	C	196	GLY
1	C	215	PHE
1	C	219	PHE
1	C	251	THR
1	C	279	GLU
1	C	379	ILE
1	C	387	LYS
1	C	388	LYS
1	C	428	PRO
1	C	442	PRO
1	D	58	SER
1	D	84	TYR
1	D	175	TYR
1	D	196	GLY
1	D	215	PHE
1	D	219	PHE
1	D	251	THR
1	D	279	GLU
1	D	379	ILE
1	D	387	LYS
1	D	388	LYS
1	D	428	PRO
1	D	442	PRO
1	D	505	LEU
1	E	58	SER
1	E	84	TYR

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Mol	Chain	Res	Type
1	E	175	TYR
1	E	196	GLY
1	E	215	PHE
1	E	219	PHE
1	E	251	THR
1	E	279	GLU
1	E	379	ILE
1	E	387	LYS
1	E	388	LYS
1	E	428	PRO
1	E	442	PRO
1	E	505	LEU
3	F	268	THR
3	H	268	THR
3	I	268	THR
3	K	268	THR
3	L	268	THR
3	N	268	THR
3	O	268	THR
3	Q	268	THR
1	A	75	LYS
1	A	81	SER
1	A	88	HIS
1	A	89	SER
1	A	101	TYR
1	A	114	ASP
1	A	176	SER
1	A	199	ASN
1	A	233	ASN
1	A	270	GLY
1	A	500	PRO
1	A	513	ILE
1	B	75	LYS
1	B	81	SER
1	B	88	HIS
1	B	89	SER
1	B	101	TYR
1	B	114	ASP
1	B	176	SER
1	B	199	ASN
1	B	233	ASN
1	B	270	GLY

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Mol	Chain	Res	Type
1	B	500	PRO
1	B	513	ILE
1	C	75	LYS
1	C	81	SER
1	C	88	HIS
1	C	89	SER
1	C	101	TYR
1	C	114	ASP
1	C	176	SER
1	C	199	ASN
1	C	233	ASN
1	C	270	GLY
1	C	500	PRO
1	C	513	ILE
1	D	75	LYS
1	D	81	SER
1	D	88	HIS
1	D	89	SER
1	D	101	TYR
1	D	114	ASP
1	D	176	SER
1	D	199	ASN
1	D	233	ASN
1	D	270	GLY
1	D	500	PRO
1	D	513	ILE
1	E	75	LYS
1	E	81	SER
1	E	88	HIS
1	E	89	SER
1	E	101	TYR
1	E	114	ASP
1	E	176	SER
1	E	199	ASN
1	E	233	ASN
1	E	270	GLY
1	E	500	PRO
1	E	513	ILE
1	A	55	ILE
1	A	67	THR
1	A	208	VAL
1	A	382	LEU

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Mol	Chain	Res	Type
1	B	55	ILE
1	B	67	THR
1	B	208	VAL
1	B	382	LEU
1	C	55	ILE
1	C	67	THR
1	C	208	VAL
1	C	382	LEU
1	D	55	ILE
1	D	67	THR
1	D	208	VAL
1	D	382	LEU
1	E	55	ILE
1	E	67	THR
1	E	208	VAL
1	E	382	LEU
3	F	279	LEU
3	G	279	LEU
3	H	279	LEU
3	I	279	LEU
3	J	279	LEU
3	K	279	LEU
3	L	279	LEU
3	M	279	LEU
3	N	279	LEU
3	O	279	LEU
3	P	279	LEU
3	Q	279	LEU
1	A	392	ASN
1	B	392	ASN
1	C	392	ASN
1	D	392	ASN
1	E	392	ASN
3	F	7	PRO
3	G	7	PRO
3	H	7	PRO
3	J	7	PRO
3	K	7	PRO
3	L	7	PRO
3	M	7	PRO
3	N	7	PRO
3	O	7	PRO

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Mol	Chain	Res	Type
3	P	7	PRO
3	Q	7	PRO
1	A	418	GLY
1	B	418	GLY
1	D	418	GLY
1	E	418	GLY
3	I	7	PRO
1	A	381	PRO
1	B	381	PRO
1	C	381	PRO
1	C	418	GLY
1	D	381	PRO
1	E	381	PRO
3	F	305	ILE
3	G	305	ILE
3	H	305	ILE
3	I	305	ILE
3	J	305	ILE
3	K	305	ILE
3	L	305	ILE
3	M	305	ILE
3	N	305	ILE
3	O	305	ILE
3	P	305	ILE
3	Q	305	ILE

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	399/451 (88%)	367 (92%)	32 (8%)	11	31
1	B	399/451 (88%)	365 (92%)	34 (8%)	10	29
1	C	399/451 (88%)	366 (92%)	33 (8%)	10	30
1	D	399/451 (88%)	366 (92%)	33 (8%)	10	30
1	E	399/451 (88%)	366 (92%)	33 (8%)	10	30

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	S	10/10 (100%)	10 (100%)	0	100	100
2	T	10/10 (100%)	10 (100%)	0	100	100
2	U	10/10 (100%)	10 (100%)	0	100	100
2	V	10/10 (100%)	10 (100%)	0	100	100
2	W	10/10 (100%)	10 (100%)	0	100	100
3	F	727/828 (88%)	636 (88%)	91 (12%)	4	16
3	G	727/828 (88%)	636 (88%)	91 (12%)	4	16
3	H	727/828 (88%)	636 (88%)	91 (12%)	4	16
3	I	727/828 (88%)	636 (88%)	91 (12%)	4	16
3	J	727/828 (88%)	636 (88%)	91 (12%)	4	16
3	K	727/828 (88%)	636 (88%)	91 (12%)	4	16
3	L	727/828 (88%)	636 (88%)	91 (12%)	4	16
3	M	727/828 (88%)	636 (88%)	91 (12%)	4	16
3	N	727/828 (88%)	636 (88%)	91 (12%)	4	16
3	O	727/828 (88%)	636 (88%)	91 (12%)	4	16
3	P	727/828 (88%)	636 (88%)	91 (12%)	4	16
3	Q	727/828 (88%)	636 (88%)	91 (12%)	4	16
All	All	10769/12241 (88%)	9512 (88%)	1257 (12%)	7	18

All (1257) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	68	ARG
1	A	83	ASN
1	A	98	ASN
1	A	124	LYS
1	A	130	ASN
1	A	166	VAL
1	A	168	PHE
1	A	199	ASN
1	A	202	LEU
1	A	249	ASP
1	A	256	SER
1	A	276	ASP
1	A	279	GLU
1	A	401	THR

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Mol	Chain	Res	Type
1	A	411	ASN
1	A	419	ILE
1	A	424	LEU
1	A	428	PRO
1	A	429	ASP
1	A	430	VAL
1	A	436	GLN
1	A	438	TYR
1	A	440	SER
1	A	450	THR
1	A	457	ILE
1	A	473	LYS
1	A	478	ASP
1	A	484	GLN
1	A	512	THR
1	A	542	THR
1	A	545	ASP
1	A	562	SER
1	B	68	ARG
1	B	83	ASN
1	B	98	ASN
1	B	107	SER
1	B	124	LYS
1	B	130	ASN
1	B	166	VAL
1	B	168	PHE
1	B	199	ASN
1	B	202	LEU
1	B	249	ASP
1	B	256	SER
1	B	276	ASP
1	B	279	GLU
1	B	401	THR
1	B	411	ASN
1	B	419	ILE
1	B	424	LEU
1	B	428	PRO
1	B	429	ASP
1	B	430	VAL
1	B	436	GLN
1	B	438	TYR
1	B	440	SER

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Mol	Chain	Res	Type
1	B	450	THR
1	B	457	ILE
1	B	473	LYS
1	B	478	ASP
1	B	484	GLN
1	B	512	THR
1	B	514	THR
1	B	542	THR
1	B	545	ASP
1	B	562	SER
1	C	68	ARG
1	C	83	ASN
1	C	98	ASN
1	C	124	LYS
1	C	130	ASN
1	C	166	VAL
1	C	168	PHE
1	C	199	ASN
1	C	202	LEU
1	C	249	ASP
1	C	256	SER
1	C	276	ASP
1	C	279	GLU
1	C	401	THR
1	C	411	ASN
1	C	419	ILE
1	C	424	LEU
1	C	428	PRO
1	C	429	ASP
1	C	430	VAL
1	C	436	GLN
1	C	438	TYR
1	C	440	SER
1	C	450	THR
1	C	457	ILE
1	C	473	LYS
1	C	478	ASP
1	C	484	GLN
1	C	512	THR
1	C	514	THR
1	C	542	THR
1	C	545	ASP

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Mol	Chain	Res	Type
1	C	562	SER
1	D	68	ARG
1	D	83	ASN
1	D	98	ASN
1	D	124	LYS
1	D	130	ASN
1	D	166	VAL
1	D	168	PHE
1	D	199	ASN
1	D	202	LEU
1	D	249	ASP
1	D	256	SER
1	D	276	ASP
1	D	279	GLU
1	D	401	THR
1	D	411	ASN
1	D	419	ILE
1	D	424	LEU
1	D	428	PRO
1	D	429	ASP
1	D	430	VAL
1	D	436	GLN
1	D	438	TYR
1	D	440	SER
1	D	450	THR
1	D	457	ILE
1	D	473	LYS
1	D	478	ASP
1	D	484	GLN
1	D	512	THR
1	D	514	THR
1	D	542	THR
1	D	545	ASP
1	D	562	SER
1	E	68	ARG
1	E	83	ASN
1	E	98	ASN
1	E	107	SER
1	E	124	LYS
1	E	130	ASN
1	E	166	VAL
1	E	168	PHE

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Mol	Chain	Res	Type
1	E	199	ASN
1	E	202	LEU
1	E	249	ASP
1	E	256	SER
1	E	276	ASP
1	E	279	GLU
1	E	401	THR
1	E	411	ASN
1	E	419	ILE
1	E	424	LEU
1	E	428	PRO
1	E	429	ASP
1	E	430	VAL
1	E	436	GLN
1	E	438	TYR
1	E	440	SER
1	E	450	THR
1	E	457	ILE
1	E	473	LYS
1	E	478	ASP
1	E	484	GLN
1	E	512	THR
1	E	542	THR
1	E	545	ASP
1	E	562	SER
3	F	6	MET
3	F	10	SER
3	F	14	ILE
3	F	39	SER
3	F	43	LYS
3	F	57	THR
3	F	59	ARG
3	F	66	ARG
3	F	70	VAL
3	F	75	THR
3	F	80	LYS
3	F	106	LEU
3	F	108	ARG
3	F	118	THR
3	F	167	VAL
3	F	204	GLN
3	F	205	ILE

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Mol	Chain	Res	Type
3	F	226	THR
3	F	248	ILE
3	F	263	MET
3	F	268	THR
3	F	284	VAL
3	F	292	ILE
3	F	293	GLU
3	F	304	THR
3	F	310	SER
3	F	354	LEU
3	F	376	ILE
3	F	379	ARG
3	F	419	VAL
3	F	424	THR
3	F	428	VAL
3	F	447	ASP
3	F	469	ARG
3	F	483	LYS
3	F	489	SER
3	F	493	ILE
3	F	499	THR
3	F	507	VAL
3	F	517	ILE
3	F	548	LEU
3	F	553	ARG
3	F	569	LYS
3	F	591	VAL
3	F	596	LEU
3	F	601	ARG
3	F	602	VAL
3	F	608	LYS
3	F	627	SER
3	F	636	ASP
3	F	637	THR
3	F	643	ASN
3	F	647	SER
3	F	651	MET
3	F	660	THR
3	F	665	SER
3	F	666	ILE
3	F	668	SER
3	F	680	THR

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Mol	Chain	Res	Type
3	F	682	LEU
3	F	718	LYS
3	F	720	VAL
3	F	723	THR
3	F	746	ARG
3	F	748	VAL
3	F	751	GLU
3	F	785	SER
3	F	789	ARG
3	F	795	ARG
3	F	805	VAL
3	F	808	THR
3	F	815	GLN
3	F	818	ILE
3	F	828	VAL
3	F	836	ARG
3	F	837	GLU
3	F	853	THR
3	F	858	ILE
3	F	861	LYS
3	F	864	LEU
3	F	891	LEU
3	F	892	LEU
3	F	918	LEU
3	F	925	VAL
3	F	926	ARG
3	F	929	ARG
3	F	932	ARG
3	F	935	ILE
3	F	941	ARG
3	F	942	THR
3	F	945	SER
3	G	6	MET
3	G	10	SER
3	G	14	ILE
3	G	39	SER
3	G	43	LYS
3	G	57	THR
3	G	59	ARG
3	G	66	ARG
3	G	70	VAL
3	G	75	THR

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Mol	Chain	Res	Type
3	G	80	LYS
3	G	106	LEU
3	G	108	ARG
3	G	118	THR
3	G	167	VAL
3	G	204	GLN
3	G	205	ILE
3	G	226	THR
3	G	248	ILE
3	G	263	MET
3	G	268	THR
3	G	284	VAL
3	G	292	ILE
3	G	293	GLU
3	G	304	THR
3	G	310	SER
3	G	354	LEU
3	G	376	ILE
3	G	379	ARG
3	G	419	VAL
3	G	424	THR
3	G	428	VAL
3	G	447	ASP
3	G	469	ARG
3	G	483	LYS
3	G	489	SER
3	G	493	ILE
3	G	499	THR
3	G	507	VAL
3	G	517	ILE
3	G	548	LEU
3	G	553	ARG
3	G	569	LYS
3	G	591	VAL
3	G	596	LEU
3	G	601	ARG
3	G	602	VAL
3	G	608	LYS
3	G	627	SER
3	G	636	ASP
3	G	637	THR
3	G	643	ASN

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Mol	Chain	Res	Type
3	G	647	SER
3	G	651	MET
3	G	660	THR
3	G	665	SER
3	G	666	ILE
3	G	668	SER
3	G	680	THR
3	G	682	LEU
3	G	718	LYS
3	G	720	VAL
3	G	723	THR
3	G	746	ARG
3	G	748	VAL
3	G	751	GLU
3	G	785	SER
3	G	789	ARG
3	G	795	ARG
3	G	805	VAL
3	G	808	THR
3	G	815	GLN
3	G	818	ILE
3	G	828	VAL
3	G	836	ARG
3	G	837	GLU
3	G	853	THR
3	G	858	ILE
3	G	861	LYS
3	G	864	LEU
3	G	891	LEU
3	G	892	LEU
3	G	918	LEU
3	G	925	VAL
3	G	926	ARG
3	G	929	ARG
3	G	932	ARG
3	G	935	ILE
3	G	941	ARG
3	G	942	THR
3	G	945	SER
3	H	6	MET
3	H	10	SER
3	H	14	ILE

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Mol	Chain	Res	Type
3	H	39	SER
3	H	43	LYS
3	H	57	THR
3	H	59	ARG
3	H	66	ARG
3	H	70	VAL
3	H	75	THR
3	H	80	LYS
3	H	106	LEU
3	H	108	ARG
3	H	118	THR
3	H	167	VAL
3	H	204	GLN
3	H	205	ILE
3	H	226	THR
3	H	248	ILE
3	H	263	MET
3	H	268	THR
3	H	284	VAL
3	H	292	ILE
3	H	293	GLU
3	H	304	THR
3	H	310	SER
3	H	354	LEU
3	H	376	ILE
3	H	379	ARG
3	H	419	VAL
3	H	424	THR
3	H	428	VAL
3	H	447	ASP
3	H	469	ARG
3	H	483	LYS
3	H	489	SER
3	H	493	ILE
3	H	499	THR
3	H	507	VAL
3	H	517	ILE
3	H	548	LEU
3	H	553	ARG
3	H	569	LYS
3	H	591	VAL
3	H	596	LEU

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Mol	Chain	Res	Type
3	H	601	ARG
3	H	602	VAL
3	H	608	LYS
3	H	627	SER
3	H	636	ASP
3	H	637	THR
3	H	643	ASN
3	H	647	SER
3	H	651	MET
3	H	660	THR
3	H	665	SER
3	H	666	ILE
3	H	668	SER
3	H	680	THR
3	H	682	LEU
3	H	718	LYS
3	H	720	VAL
3	H	723	THR
3	H	746	ARG
3	H	748	VAL
3	H	751	GLU
3	H	785	SER
3	H	789	ARG
3	H	795	ARG
3	H	805	VAL
3	H	808	THR
3	H	815	GLN
3	H	818	ILE
3	H	828	VAL
3	H	836	ARG
3	H	837	GLU
3	H	853	THR
3	H	858	ILE
3	H	861	LYS
3	H	864	LEU
3	H	891	LEU
3	H	892	LEU
3	H	918	LEU
3	H	925	VAL
3	H	926	ARG
3	H	929	ARG
3	H	932	ARG

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Mol	Chain	Res	Type
3	H	935	ILE
3	H	941	ARG
3	H	942	THR
3	H	945	SER
3	I	6	MET
3	I	10	SER
3	I	14	ILE
3	I	39	SER
3	I	43	LYS
3	I	57	THR
3	I	59	ARG
3	I	66	ARG
3	I	70	VAL
3	I	75	THR
3	I	80	LYS
3	I	106	LEU
3	I	108	ARG
3	I	118	THR
3	I	167	VAL
3	I	204	GLN
3	I	205	ILE
3	I	226	THR
3	I	248	ILE
3	I	263	MET
3	I	268	THR
3	I	284	VAL
3	I	292	ILE
3	I	293	GLU
3	I	304	THR
3	I	310	SER
3	I	354	LEU
3	I	376	ILE
3	I	379	ARG
3	I	419	VAL
3	I	424	THR
3	I	428	VAL
3	I	447	ASP
3	I	469	ARG
3	I	483	LYS
3	I	489	SER
3	I	493	ILE
3	I	499	THR

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Mol	Chain	Res	Type
3	I	507	VAL
3	I	517	ILE
3	I	548	LEU
3	I	553	ARG
3	I	569	LYS
3	I	591	VAL
3	I	596	LEU
3	I	601	ARG
3	I	602	VAL
3	I	608	LYS
3	I	627	SER
3	I	636	ASP
3	I	637	THR
3	I	643	ASN
3	I	647	SER
3	I	651	MET
3	I	660	THR
3	I	665	SER
3	I	666	ILE
3	I	668	SER
3	I	680	THR
3	I	682	LEU
3	I	718	LYS
3	I	720	VAL
3	I	723	THR
3	I	746	ARG
3	I	748	VAL
3	I	751	GLU
3	I	785	SER
3	I	789	ARG
3	I	795	ARG
3	I	805	VAL
3	I	808	THR
3	I	815	GLN
3	I	818	ILE
3	I	828	VAL
3	I	836	ARG
3	I	837	GLU
3	I	853	THR
3	I	858	ILE
3	I	861	LYS
3	I	864	LEU

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Mol	Chain	Res	Type
3	I	891	LEU
3	I	892	LEU
3	I	918	LEU
3	I	925	VAL
3	I	926	ARG
3	I	929	ARG
3	I	932	ARG
3	I	935	ILE
3	I	941	ARG
3	I	942	THR
3	I	945	SER
3	J	6	MET
3	J	10	SER
3	J	14	ILE
3	J	39	SER
3	J	43	LYS
3	J	57	THR
3	J	59	ARG
3	J	66	ARG
3	J	70	VAL
3	J	75	THR
3	J	80	LYS
3	J	106	LEU
3	J	108	ARG
3	J	118	THR
3	J	167	VAL
3	J	204	GLN
3	J	205	ILE
3	J	226	THR
3	J	248	ILE
3	J	263	MET
3	J	268	THR
3	J	284	VAL
3	J	292	ILE
3	J	293	GLU
3	J	304	THR
3	J	310	SER
3	J	354	LEU
3	J	376	ILE
3	J	379	ARG
3	J	419	VAL
3	J	424	THR

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Mol	Chain	Res	Type
3	J	428	VAL
3	J	447	ASP
3	J	469	ARG
3	J	483	LYS
3	J	489	SER
3	J	493	ILE
3	J	499	THR
3	J	507	VAL
3	J	517	ILE
3	J	548	LEU
3	J	553	ARG
3	J	569	LYS
3	J	591	VAL
3	J	596	LEU
3	J	601	ARG
3	J	602	VAL
3	J	608	LYS
3	J	627	SER
3	J	636	ASP
3	J	637	THR
3	J	643	ASN
3	J	647	SER
3	J	651	MET
3	J	660	THR
3	J	665	SER
3	J	666	ILE
3	J	668	SER
3	J	680	THR
3	J	682	LEU
3	J	718	LYS
3	J	720	VAL
3	J	723	THR
3	J	746	ARG
3	J	748	VAL
3	J	751	GLU
3	J	785	SER
3	J	789	ARG
3	J	795	ARG
3	J	805	VAL
3	J	808	THR
3	J	815	GLN
3	J	818	ILE

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Mol	Chain	Res	Type
3	J	828	VAL
3	J	836	ARG
3	J	837	GLU
3	J	853	THR
3	J	858	ILE
3	J	861	LYS
3	J	864	LEU
3	J	891	LEU
3	J	892	LEU
3	J	918	LEU
3	J	925	VAL
3	J	926	ARG
3	J	929	ARG
3	J	932	ARG
3	J	935	ILE
3	J	941	ARG
3	J	942	THR
3	J	945	SER
3	K	6	MET
3	K	10	SER
3	K	14	ILE
3	K	39	SER
3	K	43	LYS
3	K	57	THR
3	K	59	ARG
3	K	66	ARG
3	K	70	VAL
3	K	75	THR
3	K	80	LYS
3	K	106	LEU
3	K	108	ARG
3	K	118	THR
3	K	167	VAL
3	K	204	GLN
3	K	205	ILE
3	K	226	THR
3	K	248	ILE
3	K	263	MET
3	K	268	THR
3	K	284	VAL
3	K	292	ILE
3	K	293	GLU

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Mol	Chain	Res	Type
3	K	304	THR
3	K	310	SER
3	K	354	LEU
3	K	376	ILE
3	K	379	ARG
3	K	419	VAL
3	K	424	THR
3	K	428	VAL
3	K	447	ASP
3	K	469	ARG
3	K	483	LYS
3	K	489	SER
3	K	493	ILE
3	K	499	THR
3	K	507	VAL
3	K	517	ILE
3	K	548	LEU
3	K	553	ARG
3	K	569	LYS
3	K	591	VAL
3	K	596	LEU
3	K	601	ARG
3	K	602	VAL
3	K	608	LYS
3	K	627	SER
3	K	636	ASP
3	K	637	THR
3	K	643	ASN
3	K	647	SER
3	K	651	MET
3	K	660	THR
3	K	665	SER
3	K	666	ILE
3	K	668	SER
3	K	680	THR
3	K	682	LEU
3	K	718	LYS
3	K	720	VAL
3	K	723	THR
3	K	746	ARG
3	K	748	VAL
3	K	751	GLU

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Mol	Chain	Res	Type
3	K	785	SER
3	K	789	ARG
3	K	795	ARG
3	K	805	VAL
3	K	808	THR
3	K	815	GLN
3	K	818	ILE
3	K	828	VAL
3	K	836	ARG
3	K	837	GLU
3	K	853	THR
3	K	858	ILE
3	K	861	LYS
3	K	864	LEU
3	K	891	LEU
3	K	892	LEU
3	K	918	LEU
3	K	925	VAL
3	K	926	ARG
3	K	929	ARG
3	K	932	ARG
3	K	935	ILE
3	K	941	ARG
3	K	942	THR
3	K	945	SER
3	L	6	MET
3	L	10	SER
3	L	14	ILE
3	L	39	SER
3	L	43	LYS
3	L	57	THR
3	L	59	ARG
3	L	66	ARG
3	L	70	VAL
3	L	75	THR
3	L	80	LYS
3	L	106	LEU
3	L	108	ARG
3	L	118	THR
3	L	167	VAL
3	L	204	GLN
3	L	205	ILE

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Mol	Chain	Res	Type
3	L	226	THR
3	L	248	ILE
3	L	263	MET
3	L	268	THR
3	L	284	VAL
3	L	292	ILE
3	L	293	GLU
3	L	304	THR
3	L	310	SER
3	L	354	LEU
3	L	376	ILE
3	L	379	ARG
3	L	419	VAL
3	L	424	THR
3	L	428	VAL
3	L	447	ASP
3	L	469	ARG
3	L	483	LYS
3	L	489	SER
3	L	493	ILE
3	L	499	THR
3	L	507	VAL
3	L	517	ILE
3	L	548	LEU
3	L	553	ARG
3	L	569	LYS
3	L	591	VAL
3	L	596	LEU
3	L	601	ARG
3	L	602	VAL
3	L	608	LYS
3	L	627	SER
3	L	636	ASP
3	L	637	THR
3	L	643	ASN
3	L	647	SER
3	L	651	MET
3	L	660	THR
3	L	665	SER
3	L	666	ILE
3	L	668	SER
3	L	680	THR

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Mol	Chain	Res	Type
3	L	682	LEU
3	L	718	LYS
3	L	720	VAL
3	L	723	THR
3	L	746	ARG
3	L	748	VAL
3	L	751	GLU
3	L	785	SER
3	L	789	ARG
3	L	795	ARG
3	L	805	VAL
3	L	808	THR
3	L	815	GLN
3	L	818	ILE
3	L	828	VAL
3	L	836	ARG
3	L	837	GLU
3	L	853	THR
3	L	858	ILE
3	L	861	LYS
3	L	864	LEU
3	L	891	LEU
3	L	892	LEU
3	L	918	LEU
3	L	925	VAL
3	L	926	ARG
3	L	929	ARG
3	L	932	ARG
3	L	935	ILE
3	L	941	ARG
3	L	942	THR
3	L	945	SER
3	M	6	MET
3	M	10	SER
3	M	14	ILE
3	M	39	SER
3	M	43	LYS
3	M	57	THR
3	M	59	ARG
3	M	66	ARG
3	M	70	VAL
3	M	75	THR

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Mol	Chain	Res	Type
3	M	80	LYS
3	M	106	LEU
3	M	108	ARG
3	M	118	THR
3	M	167	VAL
3	M	204	GLN
3	M	205	ILE
3	M	226	THR
3	M	248	ILE
3	M	263	MET
3	M	268	THR
3	M	284	VAL
3	M	292	ILE
3	M	293	GLU
3	M	304	THR
3	M	310	SER
3	M	354	LEU
3	M	376	ILE
3	M	379	ARG
3	M	419	VAL
3	M	424	THR
3	M	428	VAL
3	M	447	ASP
3	M	469	ARG
3	M	483	LYS
3	M	489	SER
3	M	493	ILE
3	M	499	THR
3	M	507	VAL
3	M	517	ILE
3	M	548	LEU
3	M	553	ARG
3	M	569	LYS
3	M	591	VAL
3	M	596	LEU
3	M	601	ARG
3	M	602	VAL
3	M	608	LYS
3	M	627	SER
3	M	636	ASP
3	M	637	THR
3	M	643	ASN

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Mol	Chain	Res	Type
3	M	647	SER
3	M	651	MET
3	M	660	THR
3	M	665	SER
3	M	666	ILE
3	M	668	SER
3	M	680	THR
3	M	682	LEU
3	M	718	LYS
3	M	720	VAL
3	M	723	THR
3	M	746	ARG
3	M	748	VAL
3	M	751	GLU
3	M	785	SER
3	M	789	ARG
3	M	795	ARG
3	M	805	VAL
3	M	808	THR
3	M	815	GLN
3	M	818	ILE
3	M	828	VAL
3	M	836	ARG
3	M	837	GLU
3	M	853	THR
3	M	858	ILE
3	M	861	LYS
3	M	864	LEU
3	M	891	LEU
3	M	892	LEU
3	M	918	LEU
3	M	925	VAL
3	M	926	ARG
3	M	929	ARG
3	M	932	ARG
3	M	935	ILE
3	M	941	ARG
3	M	942	THR
3	M	945	SER
3	N	6	MET
3	N	10	SER
3	N	14	ILE

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Mol	Chain	Res	Type
3	N	39	SER
3	N	43	LYS
3	N	57	THR
3	N	59	ARG
3	N	66	ARG
3	N	70	VAL
3	N	75	THR
3	N	80	LYS
3	N	106	LEU
3	N	108	ARG
3	N	118	THR
3	N	167	VAL
3	N	204	GLN
3	N	205	ILE
3	N	226	THR
3	N	248	ILE
3	N	263	MET
3	N	268	THR
3	N	284	VAL
3	N	292	ILE
3	N	293	GLU
3	N	304	THR
3	N	310	SER
3	N	354	LEU
3	N	376	ILE
3	N	379	ARG
3	N	419	VAL
3	N	424	THR
3	N	428	VAL
3	N	447	ASP
3	N	469	ARG
3	N	483	LYS
3	N	489	SER
3	N	493	ILE
3	N	499	THR
3	N	507	VAL
3	N	517	ILE
3	N	548	LEU
3	N	553	ARG
3	N	569	LYS
3	N	591	VAL
3	N	596	LEU

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Mol	Chain	Res	Type
3	N	601	ARG
3	N	602	VAL
3	N	608	LYS
3	N	627	SER
3	N	636	ASP
3	N	637	THR
3	N	643	ASN
3	N	647	SER
3	N	651	MET
3	N	660	THR
3	N	665	SER
3	N	666	ILE
3	N	668	SER
3	N	680	THR
3	N	682	LEU
3	N	718	LYS
3	N	720	VAL
3	N	723	THR
3	N	746	ARG
3	N	748	VAL
3	N	751	GLU
3	N	785	SER
3	N	789	ARG
3	N	795	ARG
3	N	805	VAL
3	N	808	THR
3	N	815	GLN
3	N	818	ILE
3	N	828	VAL
3	N	836	ARG
3	N	837	GLU
3	N	853	THR
3	N	858	ILE
3	N	861	LYS
3	N	864	LEU
3	N	891	LEU
3	N	892	LEU
3	N	918	LEU
3	N	925	VAL
3	N	926	ARG
3	N	929	ARG
3	N	932	ARG

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Mol	Chain	Res	Type
3	N	935	ILE
3	N	941	ARG
3	N	942	THR
3	N	945	SER
3	O	6	MET
3	O	10	SER
3	O	14	ILE
3	O	39	SER
3	O	43	LYS
3	O	57	THR
3	O	59	ARG
3	O	66	ARG
3	O	70	VAL
3	O	75	THR
3	O	80	LYS
3	O	106	LEU
3	O	108	ARG
3	O	118	THR
3	O	167	VAL
3	O	204	GLN
3	O	205	ILE
3	O	226	THR
3	O	248	ILE
3	O	263	MET
3	O	268	THR
3	O	284	VAL
3	O	292	ILE
3	O	293	GLU
3	O	304	THR
3	O	310	SER
3	O	354	LEU
3	O	376	ILE
3	O	379	ARG
3	O	419	VAL
3	O	424	THR
3	O	428	VAL
3	O	447	ASP
3	O	469	ARG
3	O	483	LYS
3	O	489	SER
3	O	493	ILE
3	O	499	THR

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Mol	Chain	Res	Type
3	O	507	VAL
3	O	517	ILE
3	O	548	LEU
3	O	553	ARG
3	O	569	LYS
3	O	591	VAL
3	O	596	LEU
3	O	601	ARG
3	O	602	VAL
3	O	608	LYS
3	O	627	SER
3	O	636	ASP
3	O	637	THR
3	O	643	ASN
3	O	647	SER
3	O	651	MET
3	O	660	THR
3	O	665	SER
3	O	666	ILE
3	O	668	SER
3	O	680	THR
3	O	682	LEU
3	O	718	LYS
3	O	720	VAL
3	O	723	THR
3	O	746	ARG
3	O	748	VAL
3	O	751	GLU
3	O	785	SER
3	O	789	ARG
3	O	795	ARG
3	O	805	VAL
3	O	808	THR
3	O	815	GLN
3	O	818	ILE
3	O	828	VAL
3	O	836	ARG
3	O	837	GLU
3	O	853	THR
3	O	858	ILE
3	O	861	LYS
3	O	864	LEU

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Mol	Chain	Res	Type
3	O	891	LEU
3	O	892	LEU
3	O	918	LEU
3	O	925	VAL
3	O	926	ARG
3	O	929	ARG
3	O	932	ARG
3	O	935	ILE
3	O	941	ARG
3	O	942	THR
3	O	945	SER
3	P	6	MET
3	P	10	SER
3	P	14	ILE
3	P	39	SER
3	P	43	LYS
3	P	57	THR
3	P	59	ARG
3	P	66	ARG
3	P	70	VAL
3	P	75	THR
3	P	80	LYS
3	P	106	LEU
3	P	108	ARG
3	P	118	THR
3	P	167	VAL
3	P	204	GLN
3	P	205	ILE
3	P	226	THR
3	P	248	ILE
3	P	263	MET
3	P	268	THR
3	P	284	VAL
3	P	292	ILE
3	P	293	GLU
3	P	304	THR
3	P	310	SER
3	P	354	LEU
3	P	376	ILE
3	P	379	ARG
3	P	419	VAL
3	P	424	THR

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Mol	Chain	Res	Type
3	P	428	VAL
3	P	447	ASP
3	P	469	ARG
3	P	483	LYS
3	P	489	SER
3	P	493	ILE
3	P	499	THR
3	P	507	VAL
3	P	517	ILE
3	P	548	LEU
3	P	553	ARG
3	P	569	LYS
3	P	591	VAL
3	P	596	LEU
3	P	601	ARG
3	P	602	VAL
3	P	608	LYS
3	P	627	SER
3	P	636	ASP
3	P	637	THR
3	P	643	ASN
3	P	647	SER
3	P	651	MET
3	P	660	THR
3	P	665	SER
3	P	666	ILE
3	P	668	SER
3	P	680	THR
3	P	682	LEU
3	P	718	LYS
3	P	720	VAL
3	P	723	THR
3	P	746	ARG
3	P	748	VAL
3	P	751	GLU
3	P	785	SER
3	P	789	ARG
3	P	795	ARG
3	P	805	VAL
3	P	808	THR
3	P	815	GLN
3	P	818	ILE

Continued on next page...

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Mol	Chain	Res	Type
3	P	828	VAL
3	P	836	ARG
3	P	837	GLU
3	P	853	THR
3	P	858	ILE
3	P	861	LYS
3	P	864	LEU
3	P	891	LEU
3	P	892	LEU
3	P	918	LEU
3	P	925	VAL
3	P	926	ARG
3	P	929	ARG
3	P	932	ARG
3	P	935	ILE
3	P	941	ARG
3	P	942	THR
3	P	945	SER
3	Q	6	MET
3	Q	10	SER
3	Q	14	ILE
3	Q	39	SER
3	Q	43	LYS
3	Q	57	THR
3	Q	59	ARG
3	Q	66	ARG
3	Q	70	VAL
3	Q	75	THR
3	Q	80	LYS
3	Q	106	LEU
3	Q	108	ARG
3	Q	118	THR
3	Q	167	VAL
3	Q	204	GLN
3	Q	205	ILE
3	Q	226	THR
3	Q	248	ILE
3	Q	263	MET
3	Q	268	THR
3	Q	284	VAL
3	Q	292	ILE
3	Q	293	GLU

Continued on next page...

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Mol	Chain	Res	Type
3	Q	304	THR
3	Q	310	SER
3	Q	354	LEU
3	Q	376	ILE
3	Q	379	ARG
3	Q	419	VAL
3	Q	424	THR
3	Q	428	VAL
3	Q	447	ASP
3	Q	469	ARG
3	Q	483	LYS
3	Q	489	SER
3	Q	493	ILE
3	Q	499	THR
3	Q	507	VAL
3	Q	517	ILE
3	Q	548	LEU
3	Q	553	ARG
3	Q	569	LYS
3	Q	591	VAL
3	Q	596	LEU
3	Q	601	ARG
3	Q	602	VAL
3	Q	608	LYS
3	Q	627	SER
3	Q	636	ASP
3	Q	637	THR
3	Q	643	ASN
3	Q	647	SER
3	Q	651	MET
3	Q	660	THR
3	Q	665	SER
3	Q	666	ILE
3	Q	668	SER
3	Q	680	THR
3	Q	682	LEU
3	Q	718	LYS
3	Q	720	VAL
3	Q	723	THR
3	Q	746	ARG
3	Q	748	VAL
3	Q	751	GLU

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Mol	Chain	Res	Type
3	Q	785	SER
3	Q	789	ARG
3	Q	795	ARG
3	Q	805	VAL
3	Q	808	THR
3	Q	815	GLN
3	Q	818	ILE
3	Q	828	VAL
3	Q	836	ARG
3	Q	837	GLU
3	Q	853	THR
3	Q	858	ILE
3	Q	861	LYS
3	Q	864	LEU
3	Q	891	LEU
3	Q	892	LEU
3	Q	918	LEU
3	Q	925	VAL
3	Q	926	ARG
3	Q	929	ARG
3	Q	932	ARG
3	Q	935	ILE
3	Q	941	ARG
3	Q	942	THR
3	Q	945	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (242) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	53	ASN
1	A	85	GLN
1	A	86	ASN
1	A	98	ASN
1	A	109	GLN
1	A	130	ASN
1	A	174	ASN
1	A	198	GLN
1	A	199	ASN
1	A	214	ASN
1	A	237	HIS
1	A	268	GLN
1	A	402	GLN

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Mol	Chain	Res	Type
1	A	459	ASN
1	A	471	HIS
1	A	488	GLN
1	A	503	GLN
1	A	526	HIS
1	B	53	ASN
1	B	86	ASN
1	B	98	ASN
1	B	109	GLN
1	B	130	ASN
1	B	174	ASN
1	B	198	GLN
1	B	199	ASN
1	B	214	ASN
1	B	237	HIS
1	B	268	GLN
1	B	402	GLN
1	B	436	GLN
1	B	459	ASN
1	B	471	HIS
1	B	488	GLN
1	B	503	GLN
1	B	526	HIS
1	C	53	ASN
1	C	86	ASN
1	C	98	ASN
1	C	109	GLN
1	C	130	ASN
1	C	174	ASN
1	C	198	GLN
1	C	199	ASN
1	C	214	ASN
1	C	237	HIS
1	C	268	GLN
1	C	402	GLN
1	C	436	GLN
1	C	459	ASN
1	C	471	HIS
1	C	488	GLN
1	C	503	GLN
1	C	526	HIS
1	D	53	ASN

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Mol	Chain	Res	Type
1	D	86	ASN
1	D	98	ASN
1	D	109	GLN
1	D	130	ASN
1	D	174	ASN
1	D	198	GLN
1	D	199	ASN
1	D	214	ASN
1	D	237	HIS
1	D	268	GLN
1	D	402	GLN
1	D	436	GLN
1	D	459	ASN
1	D	471	HIS
1	D	488	GLN
1	D	503	GLN
1	D	526	HIS
1	E	53	ASN
1	E	86	ASN
1	E	98	ASN
1	E	109	GLN
1	E	130	ASN
1	E	174	ASN
1	E	198	GLN
1	E	199	ASN
1	E	214	ASN
1	E	237	HIS
1	E	402	GLN
1	E	459	ASN
1	E	471	HIS
1	E	497	ASN
1	E	503	GLN
1	E	526	HIS
3	F	13	HIS
3	F	204	GLN
3	F	217	HIS
3	F	243	ASN
3	F	264	GLN
3	F	350	GLN
3	F	361	GLN
3	F	388	GLN
3	F	560	GLN

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Mol	Chain	Res	Type
3	F	815	GLN
3	F	820	HIS
3	F	895	ASN
3	F	928	HIS
3	G	13	HIS
3	G	184	GLN
3	G	204	GLN
3	G	217	HIS
3	G	243	ASN
3	G	264	GLN
3	G	350	GLN
3	G	361	GLN
3	G	388	GLN
3	G	560	GLN
3	G	815	GLN
3	G	820	HIS
3	G	895	ASN
3	G	928	HIS
3	H	13	HIS
3	H	204	GLN
3	H	217	HIS
3	H	243	ASN
3	H	264	GLN
3	H	350	GLN
3	H	361	GLN
3	H	388	GLN
3	H	560	GLN
3	H	815	GLN
3	H	820	HIS
3	H	895	ASN
3	H	928	HIS
3	I	13	HIS
3	I	204	GLN
3	I	217	HIS
3	I	264	GLN
3	I	350	GLN
3	I	361	GLN
3	I	388	GLN
3	I	560	GLN
3	I	815	GLN
3	I	820	HIS
3	I	928	HIS

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Mol	Chain	Res	Type
3	J	13	HIS
3	J	204	GLN
3	J	217	HIS
3	J	243	ASN
3	J	264	GLN
3	J	350	GLN
3	J	361	GLN
3	J	388	GLN
3	J	560	GLN
3	J	815	GLN
3	J	820	HIS
3	J	895	ASN
3	J	928	HIS
3	K	13	HIS
3	K	204	GLN
3	K	217	HIS
3	K	243	ASN
3	K	264	GLN
3	K	350	GLN
3	K	361	GLN
3	K	388	GLN
3	K	560	GLN
3	K	815	GLN
3	K	820	HIS
3	K	895	ASN
3	K	928	HIS
3	L	13	HIS
3	L	204	GLN
3	L	217	HIS
3	L	243	ASN
3	L	264	GLN
3	L	350	GLN
3	L	361	GLN
3	L	388	GLN
3	L	560	GLN
3	L	815	GLN
3	L	820	HIS
3	L	895	ASN
3	L	928	HIS
3	M	13	HIS
3	M	204	GLN
3	M	217	HIS

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Mol	Chain	Res	Type
3	M	243	ASN
3	M	264	GLN
3	M	350	GLN
3	M	361	GLN
3	M	815	GLN
3	M	820	HIS
3	M	895	ASN
3	M	928	HIS
3	N	13	HIS
3	N	204	GLN
3	N	217	HIS
3	N	243	ASN
3	N	264	GLN
3	N	350	GLN
3	N	361	GLN
3	N	388	GLN
3	N	560	GLN
3	N	815	GLN
3	N	820	HIS
3	N	895	ASN
3	N	928	HIS
3	O	13	HIS
3	O	204	GLN
3	O	217	HIS
3	O	243	ASN
3	O	264	GLN
3	O	350	GLN
3	O	361	GLN
3	O	388	GLN
3	O	560	GLN
3	O	815	GLN
3	O	820	HIS
3	O	895	ASN
3	O	928	HIS
3	P	8	GLN
3	P	13	HIS
3	P	204	GLN
3	P	217	HIS
3	P	243	ASN
3	P	264	GLN
3	P	350	GLN
3	P	361	GLN

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Mol	Chain	Res	Type
3	P	388	GLN
3	P	560	GLN
3	P	815	GLN
3	P	820	HIS
3	P	895	ASN
3	P	928	HIS
3	Q	13	HIS
3	Q	204	GLN
3	Q	217	HIS
3	Q	243	ASN
3	Q	264	GLN
3	Q	350	GLN
3	Q	361	GLN
3	Q	388	GLN
3	Q	560	GLN
3	Q	815	GLN
3	Q	820	HIS
3	Q	895	ASN
3	Q	928	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

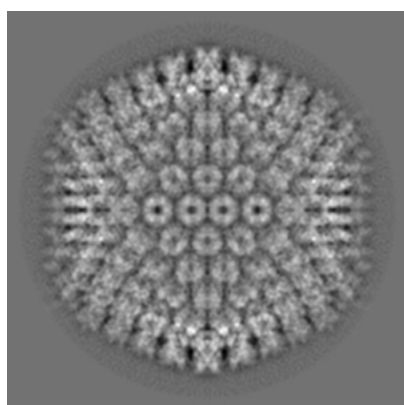
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-1113. These allow visual inspection of the internal detail of the map and identification of artifacts.

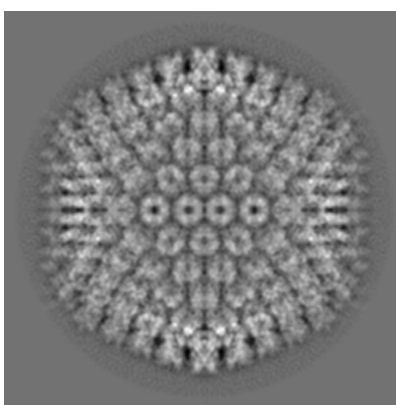
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

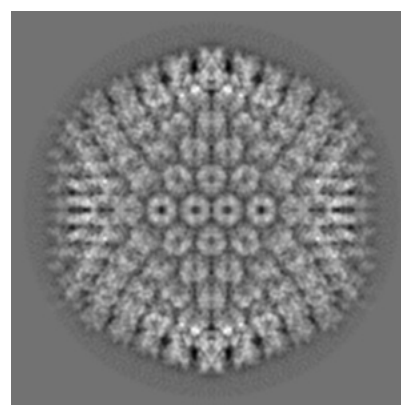
6.1.1 Primary map



X



Y

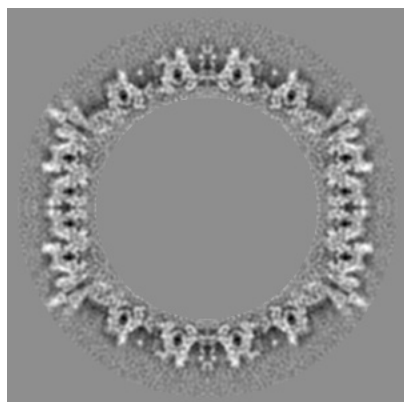


Z

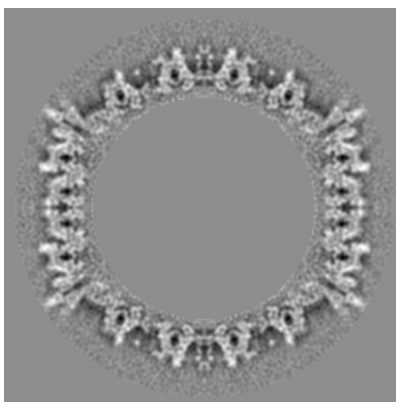
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

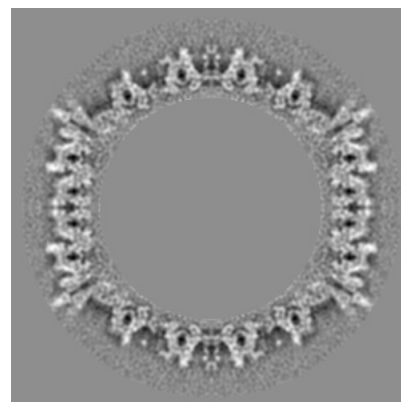
6.2.1 Primary map



X Index: 224



Y Index: 224

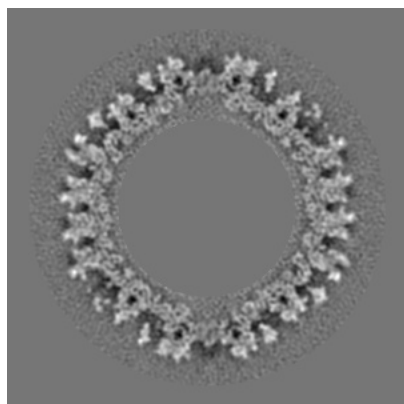


Z Index: 224

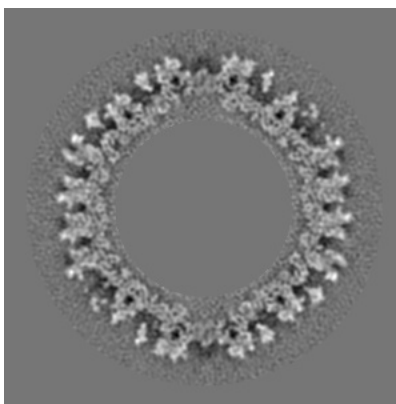
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

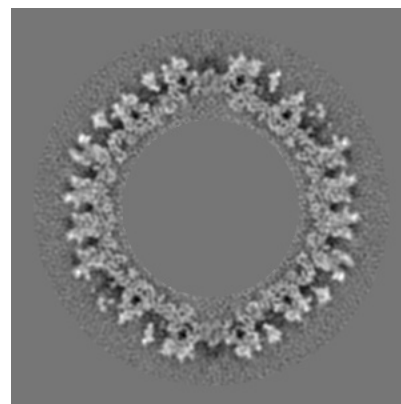
6.3.1 Primary map



X Index: 298



Y Index: 298

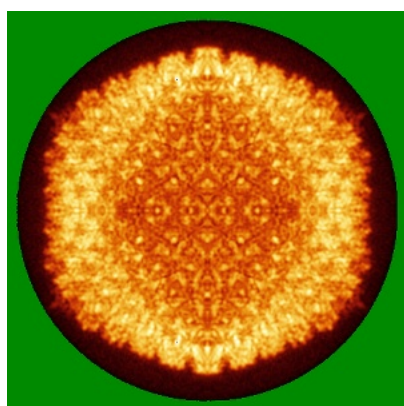


Z Index: 298

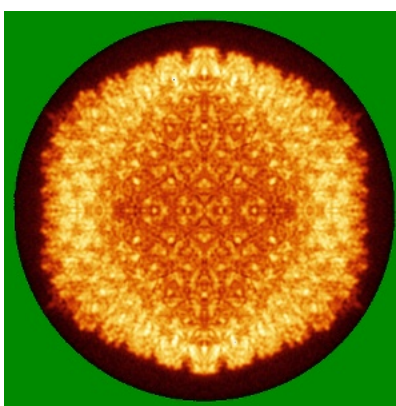
The images above show the largest variance slices of the map in three orthogonal directions.

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

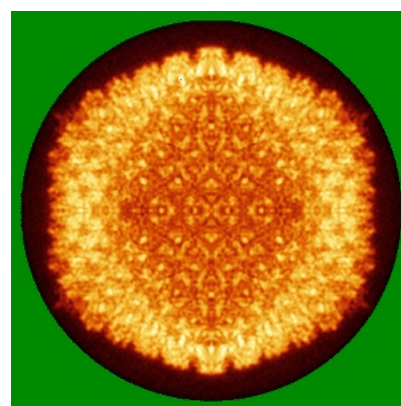
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views [i](#)

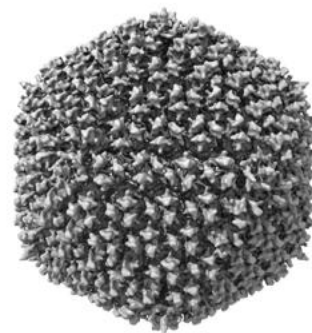
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 4660.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

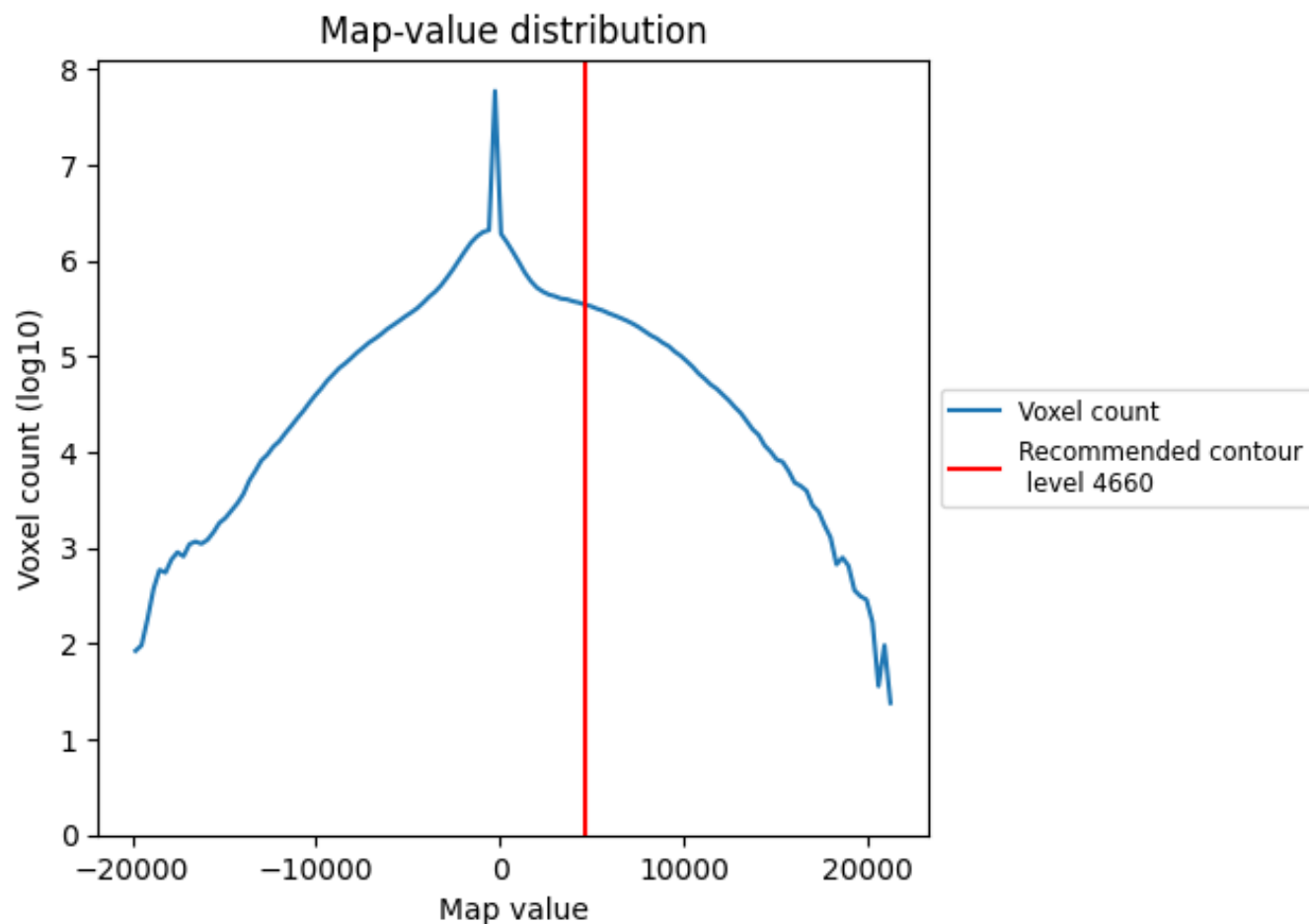
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

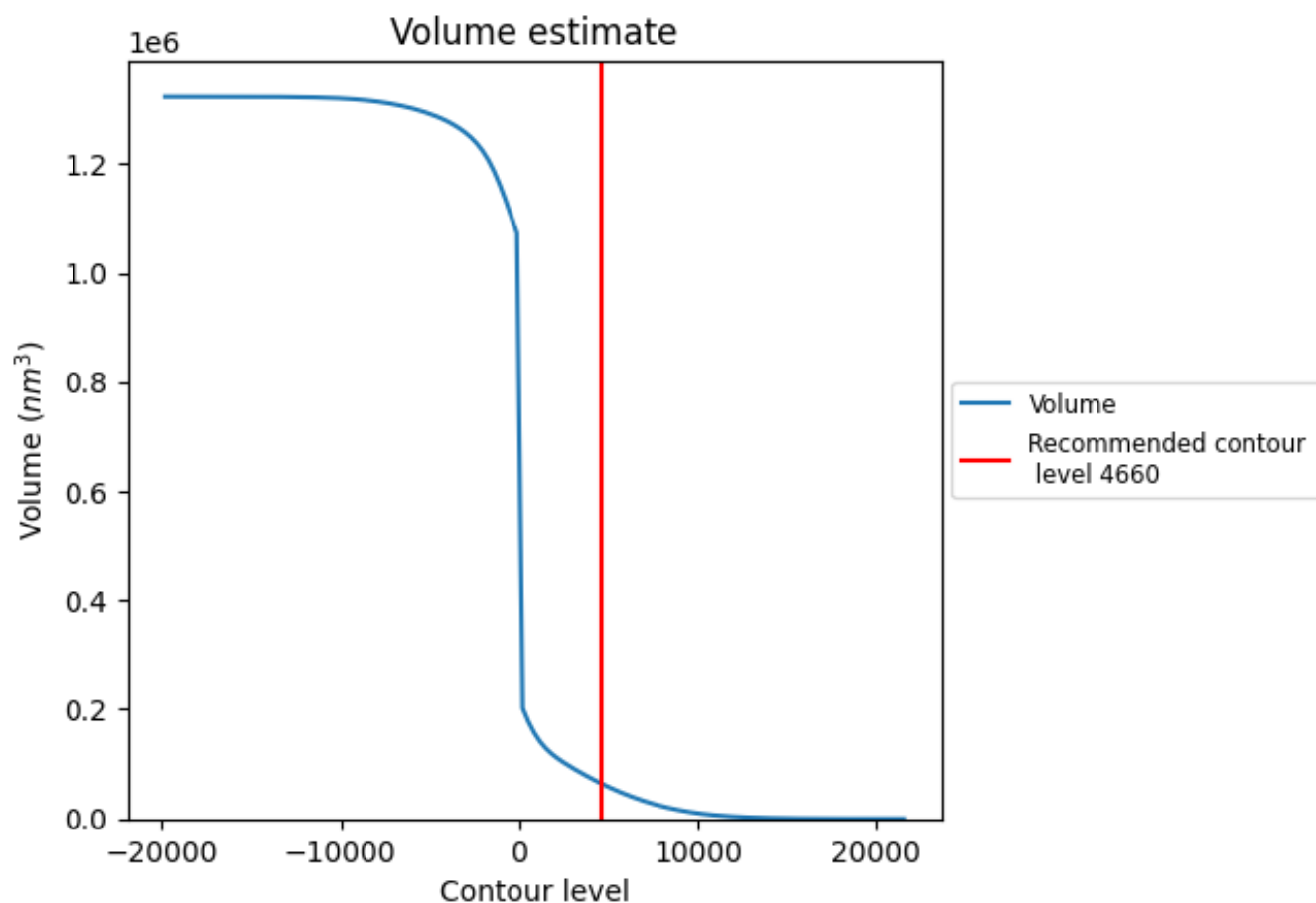
This section contains the results of statistical analysis of the map.

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.

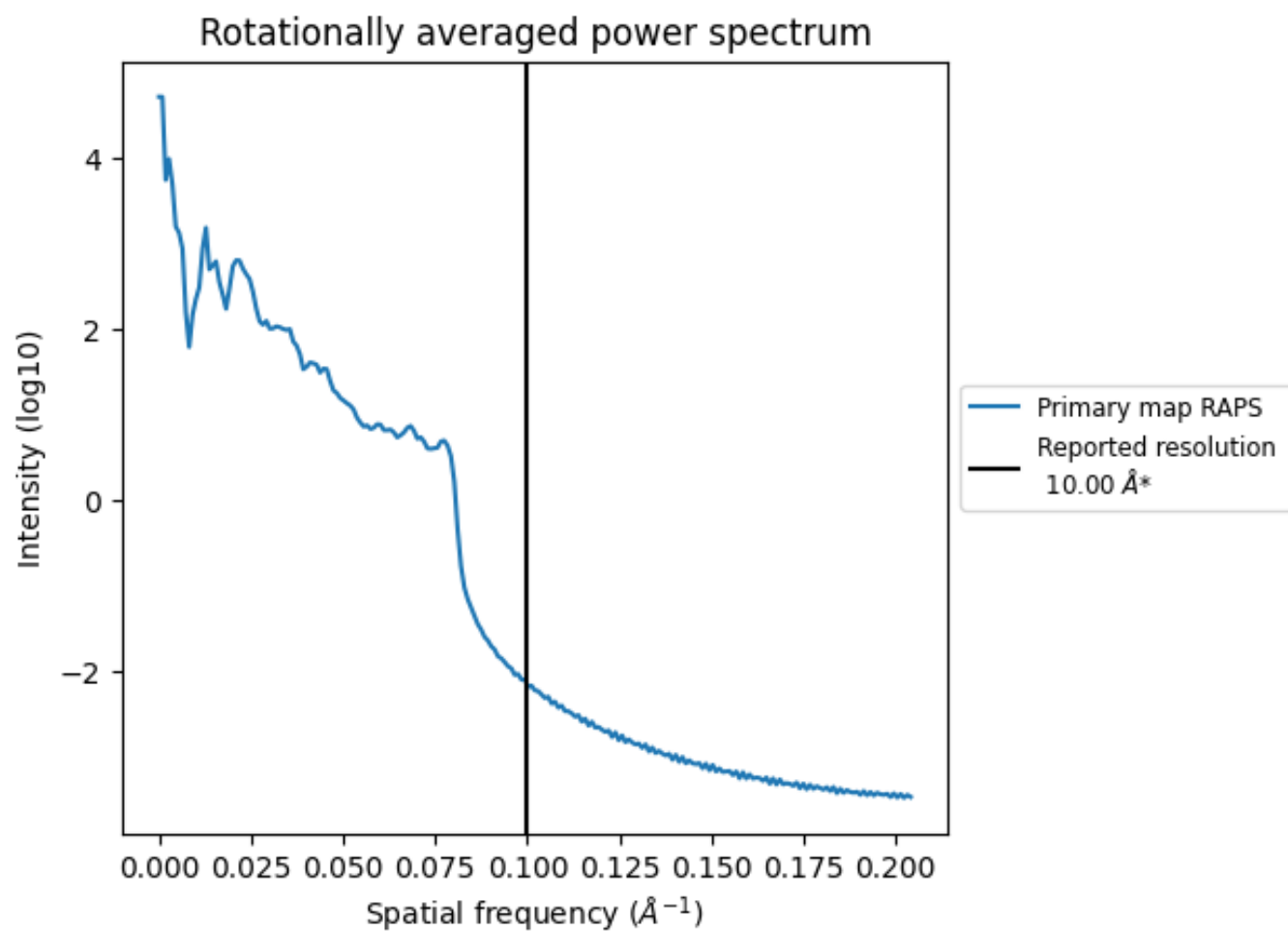
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 63485 nm³; this corresponds to an approximate mass of 57348 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 0.100 Å⁻¹

8 Fourier-Shell correlation ⓘ

This section was not generated. No FSC curve or half-maps provided.

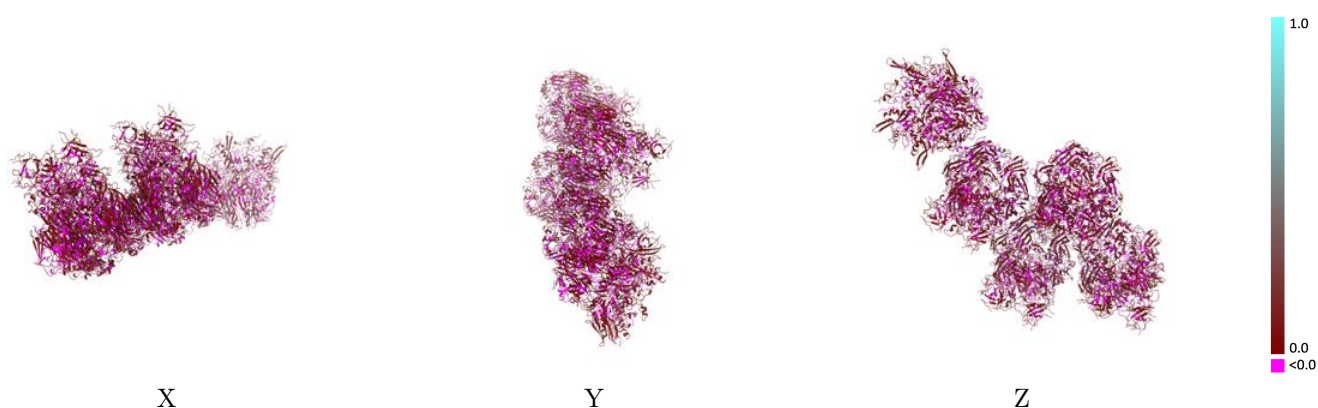
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-1113 and PDB model 4V4U. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)

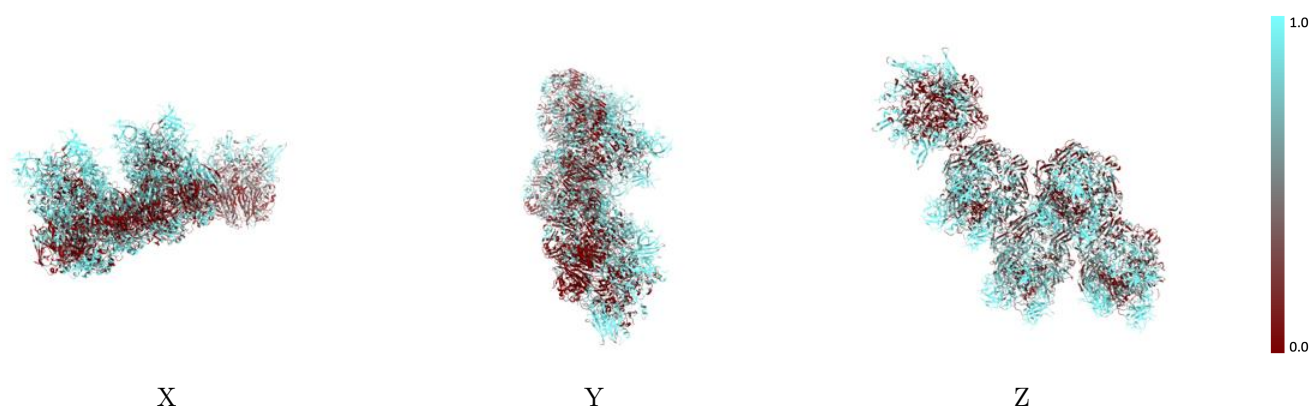
This section was not generated.

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



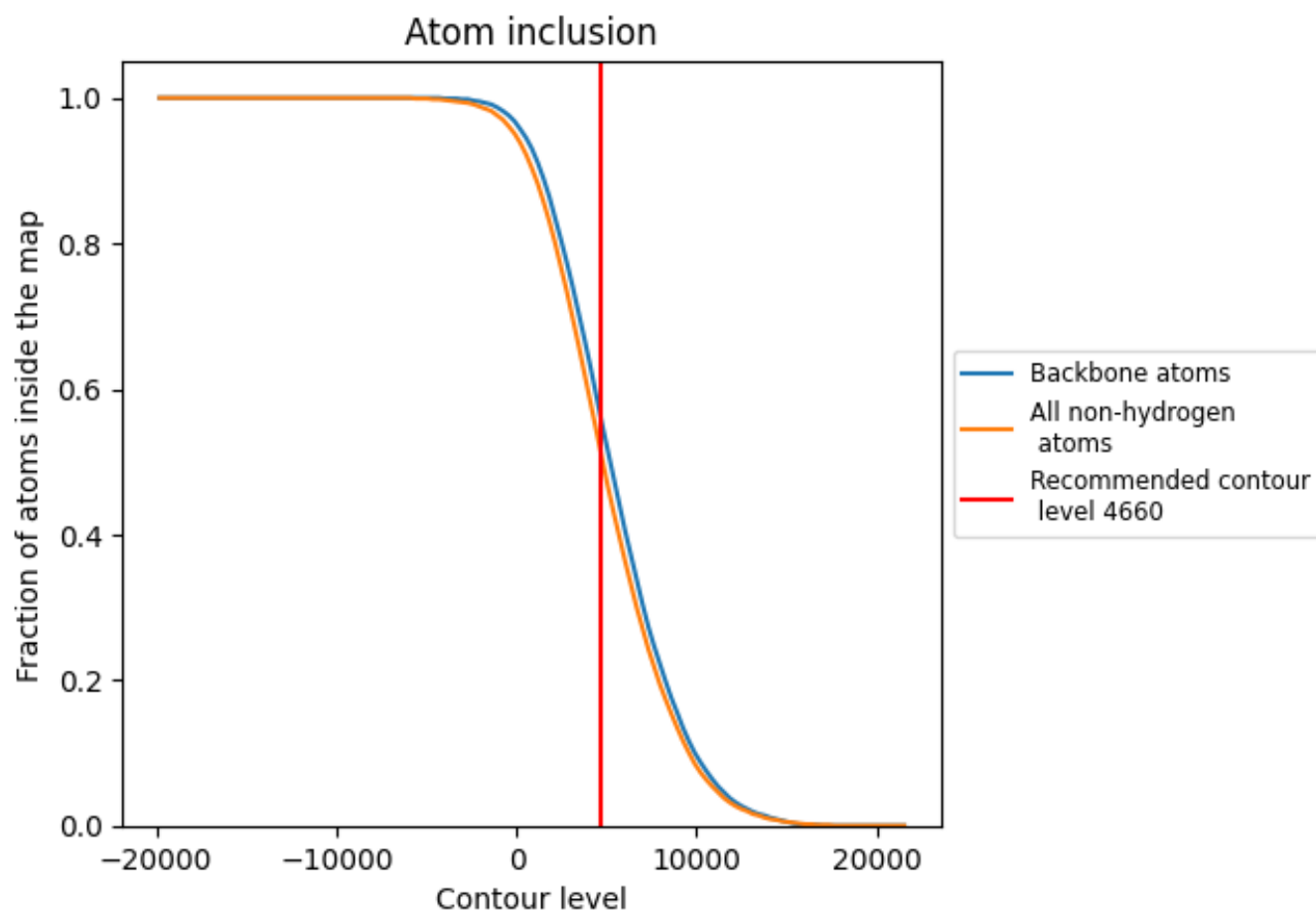
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (4660).

9.4 Atom inclusion [i](#)



At the recommended contour level, 56% of all backbone atoms, 52% 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 (4660) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5150	 0.0620
A	 0.4190	 0.0620
B	 0.4180	 0.0650
C	 0.4190	 0.0640
D	 0.4260	 0.0610
E	 0.4250	 0.0610
F	 0.5270	 0.0610
G	 0.5010	 0.0590
H	 0.5550	 0.0640
I	 0.5390	 0.0610
J	 0.5470	 0.0640
K	 0.5260	 0.0600
L	 0.5400	 0.0690
M	 0.5600	 0.0690
N	 0.5370	 0.0610
O	 0.5150	 0.0600
P	 0.5490	 0.0620
Q	 0.5440	 0.0650
S	 0.0360	 -0.0500
T	 0.0480	 -0.0370
U	 0.0360	 -0.0540
V	 0.0120	 -0.0460
W	 0.0360	 -0.0340

