



Full wwPDB EM Validation Report ⓘ

Nov 19, 2022 – 10:12 am GMT

PDB ID : 4V4U
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.dev43
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

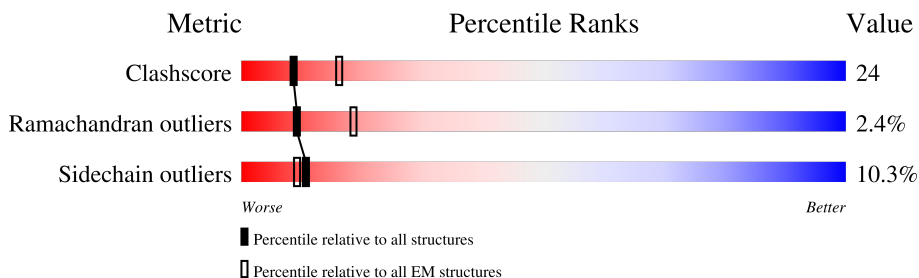
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 10.00 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)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">32%</div> </div>
1	B	523	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">32%</div> </div>
1	C	523	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">32%</div> </div>
1	D	523	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">33%</div> </div>
1	E	523	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">32%</div> </div>
2	S	10	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">70%</div> </div>
2	T	10	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">70%</div> </div>
2	U	10	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">80%</div> </div>

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Mol	Chain	Length	Quality of chain
2	V	10	80% 50% 40% 10%
2	W	10	70% 40% 50% 10%
3	F	951	32% 56% 30% 6% 7%
3	G	951	32% 57% 30% 6% 7%
3	H	951	33% 57% 30% 6% 7%
3	I	951	36% 57% 30% 5% 7%
3	J	951	33% 57% 30% 6% 7%
3	K	951	35% 57% 29% 6% 7%
3	L	951	33% 56% 30% 6% 7%
3	M	951	34% 56% 30% 6% 7%
3	N	951	34% 57% 30% 6% 7%
3	O	951	30% 57% 30% 6% 7%
3	P	951	29% 57% 30% 6% 7%
3	Q	951	29% 56% 30% 6% 7%

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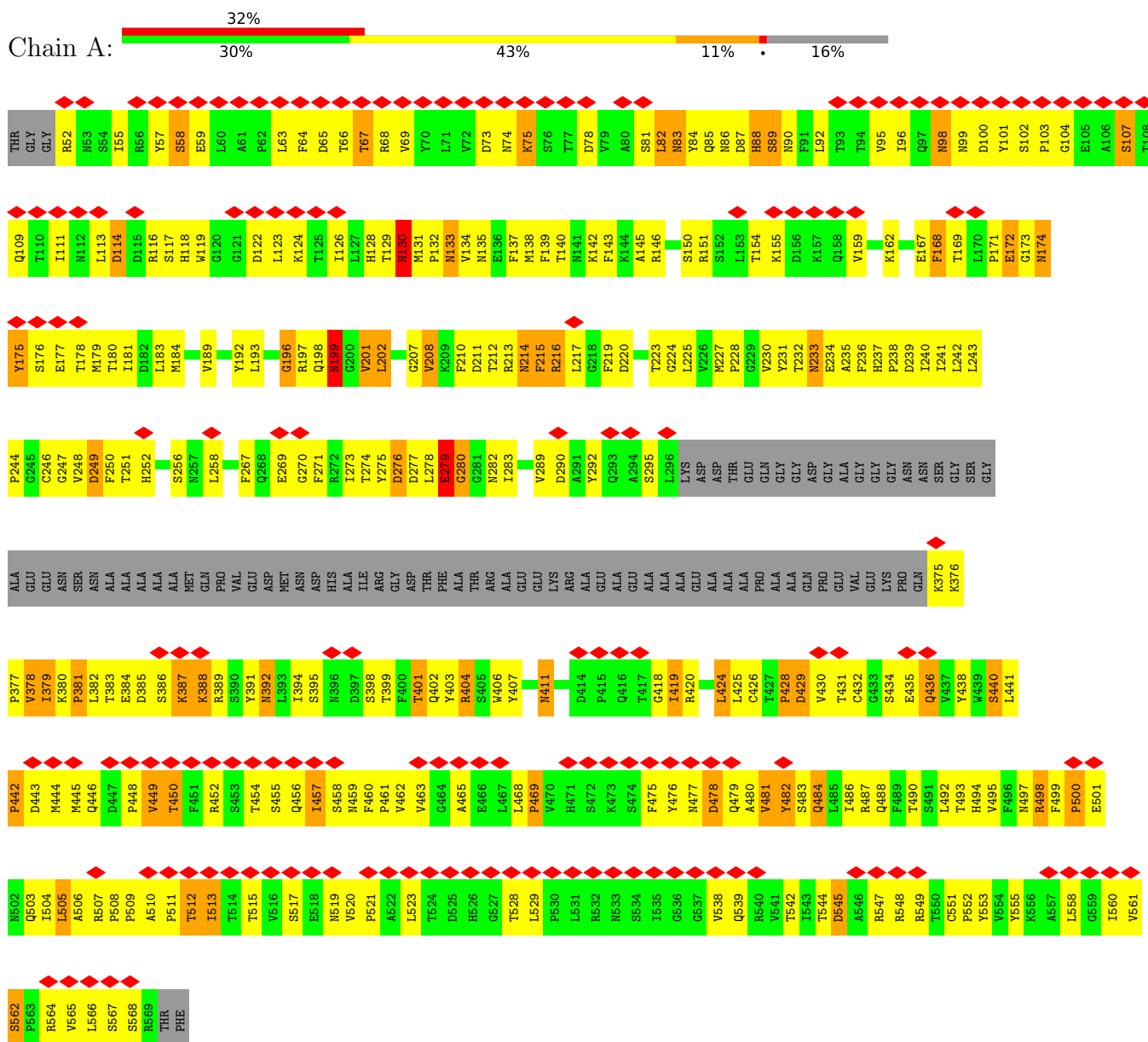
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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	I	884	Total 6942	C 4436	N 1172	O 1299	S 35	0	0
3	J	884	Total 6942	C 4436	N 1172	O 1299	S 35	0	0
3	K	884	Total 6942	C 4436	N 1172	O 1299	S 35	0	0
3	L	884	Total 6942	C 4436	N 1172	O 1299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

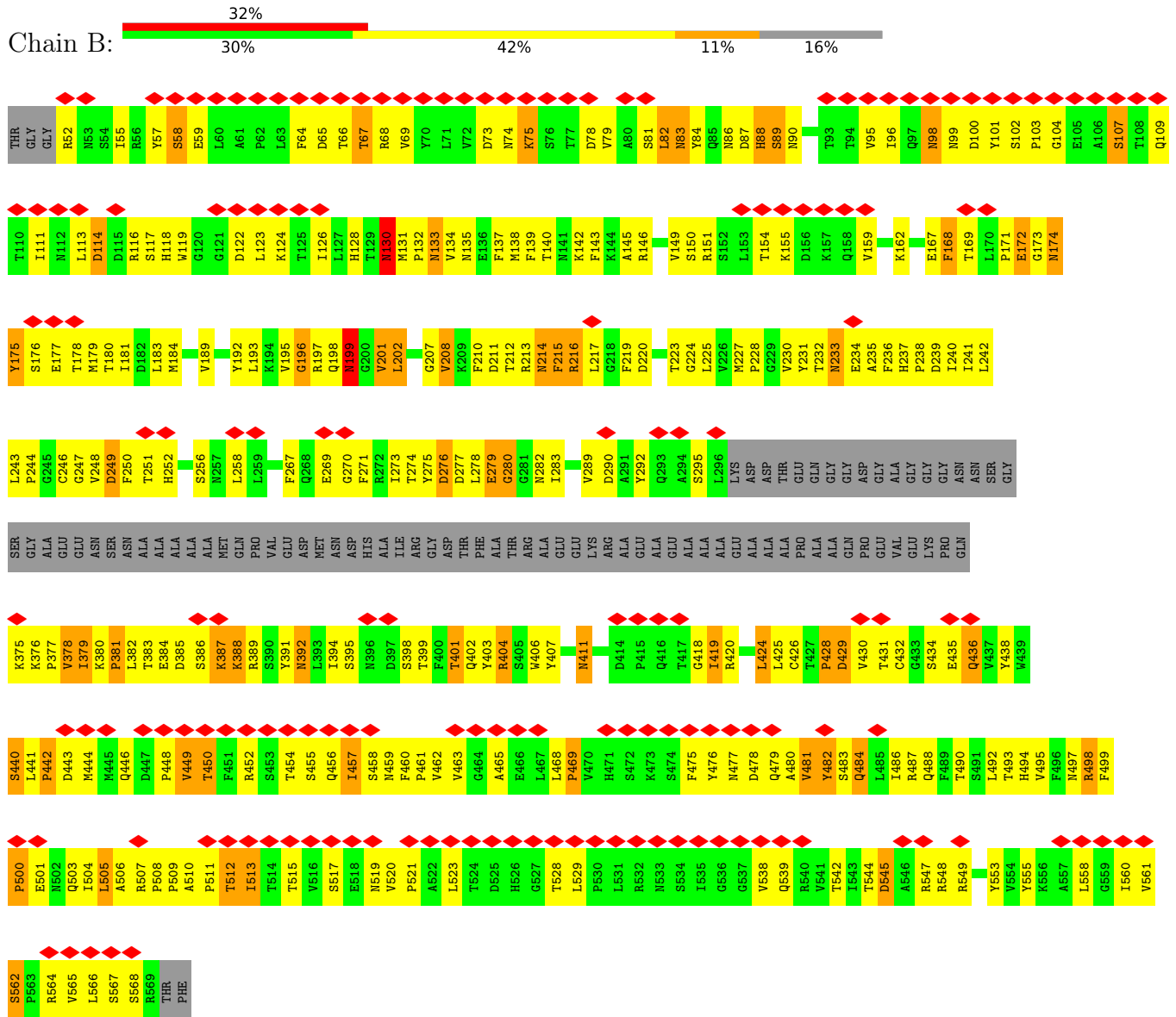
3 Residue-property plots

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

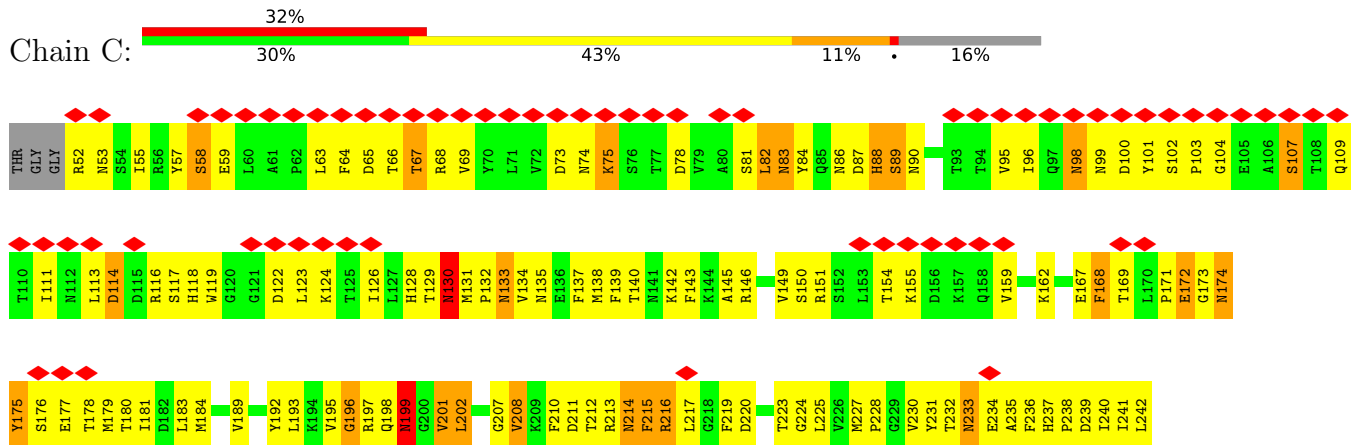
- Molecule 1: PENTON PROTEIN

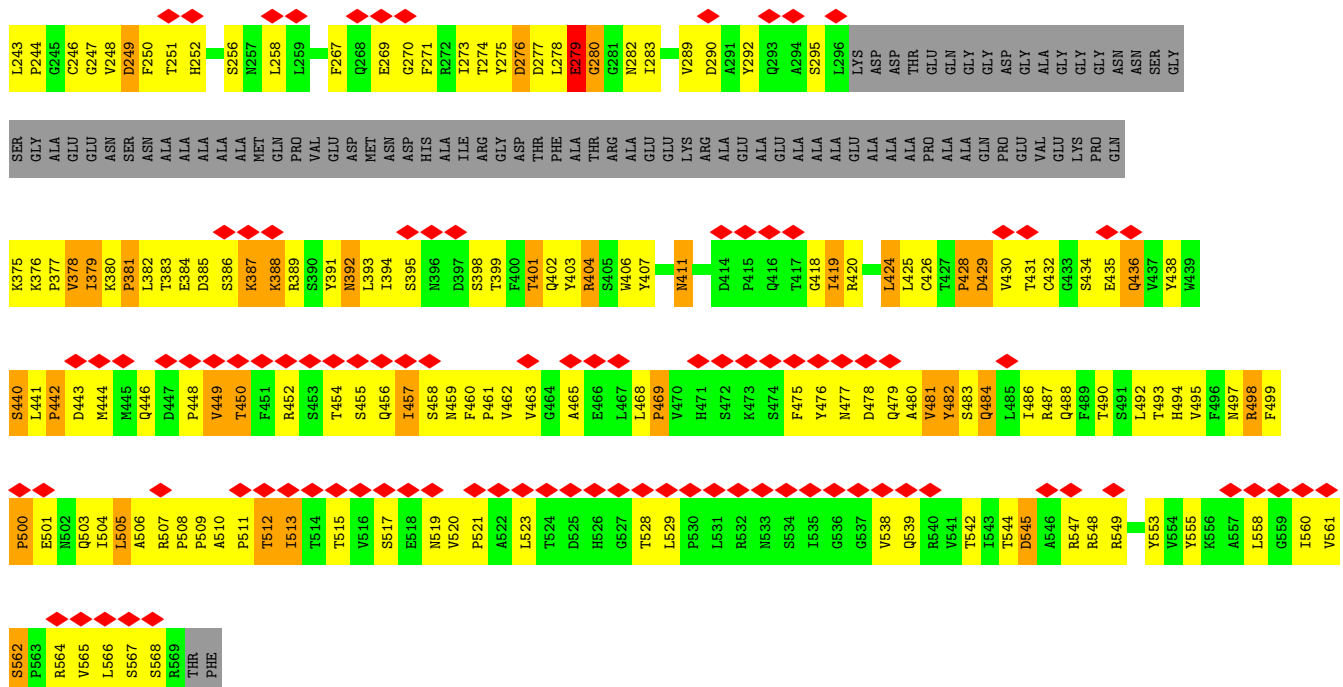


- Molecule 1: PENTON PROTEIN

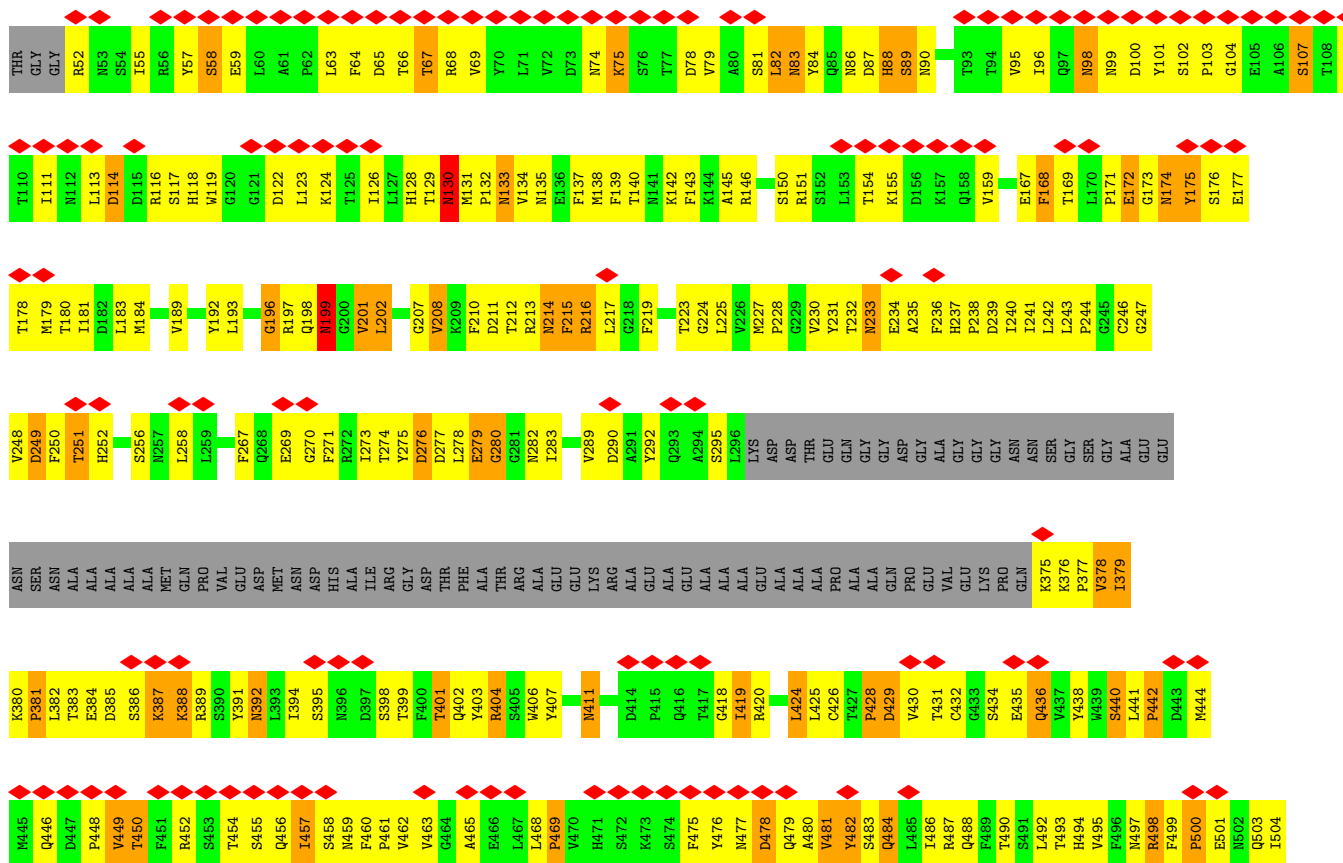


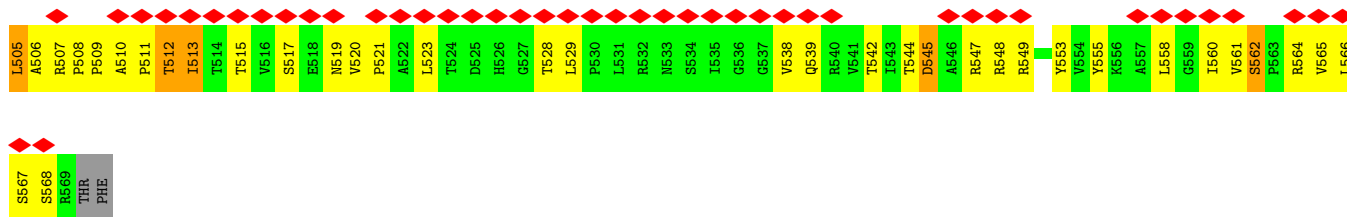
● Molecule 1: PENTON PROTEIN



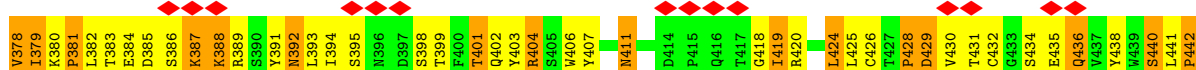
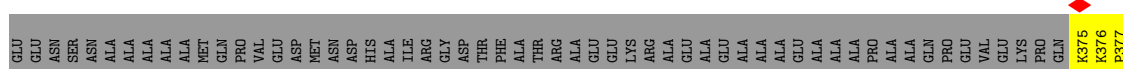
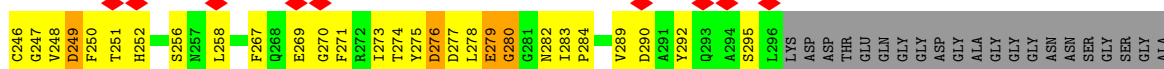


• Molecule 1: PENTON PROTEIN

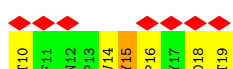
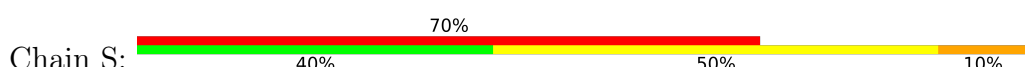




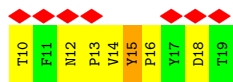
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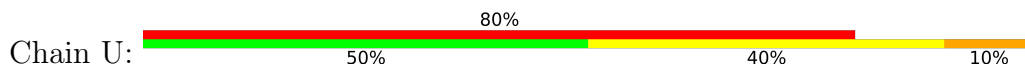
• Molecule 2: N-TERMINAL PEPTIDE OF FIBER PROTEIN



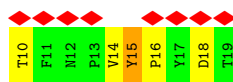
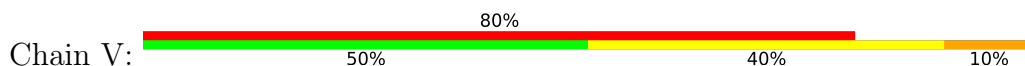
• Molecule 2: N-TERMINAL PEPTIDE OF FIBER PROTEIN



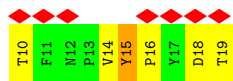
• Molecule 2: N-TERMINAL PEPTIDE OF FIBER PROTEIN



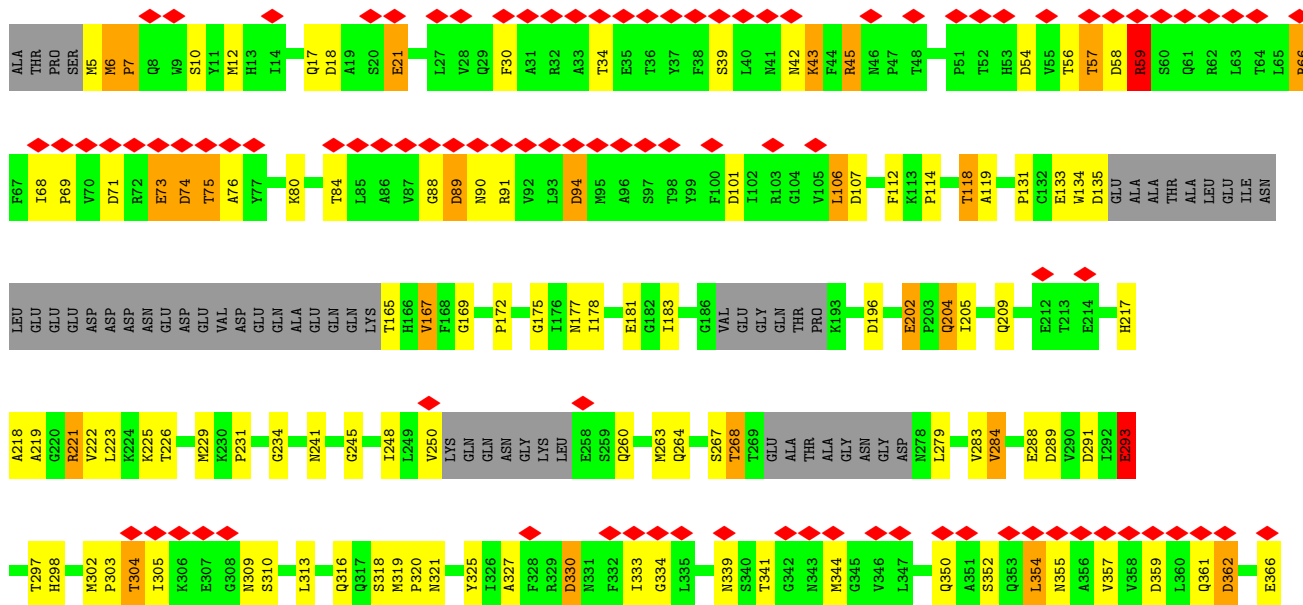
• Molecule 2: N-TERMINAL PEPTIDE OF FIBER PROTEIN

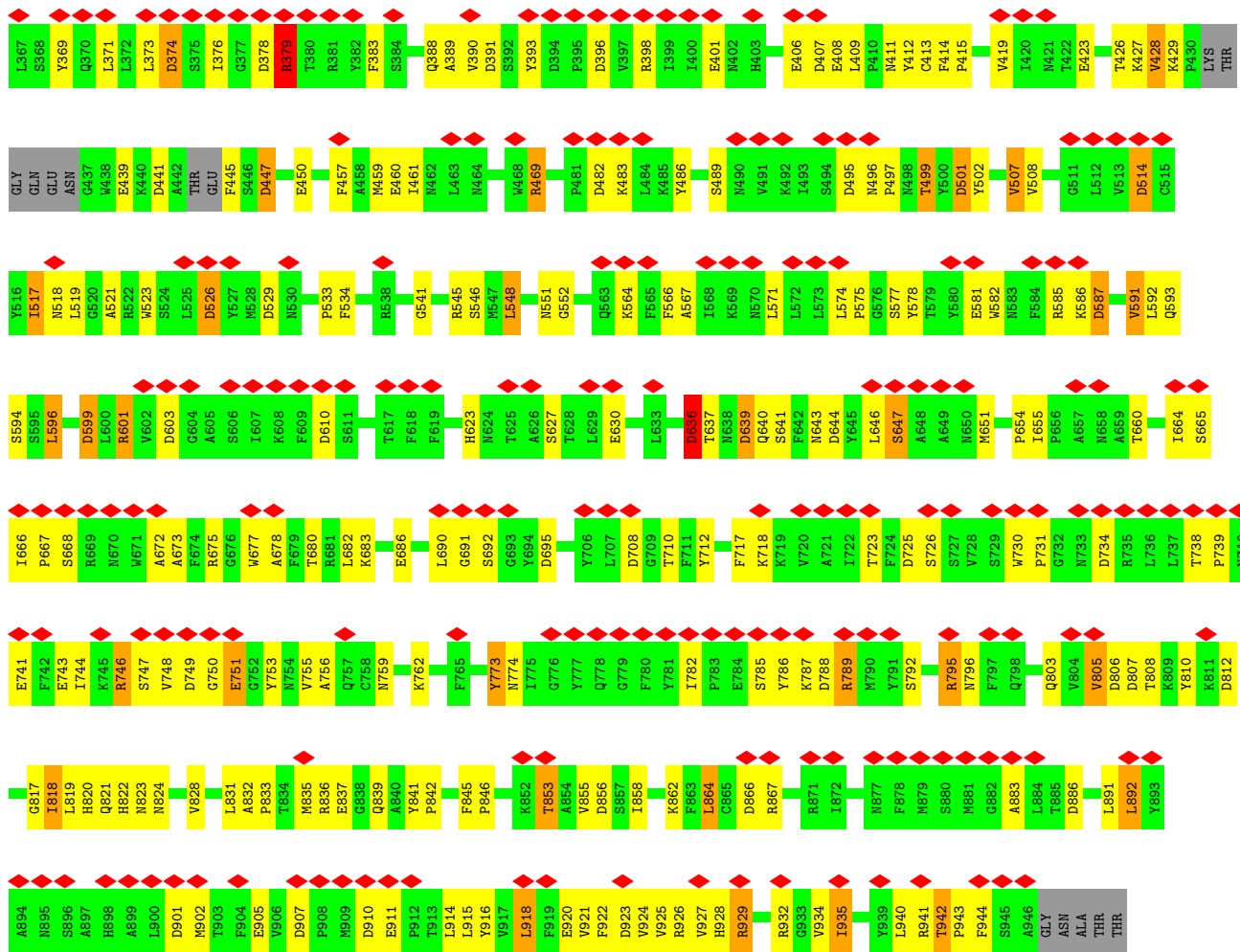


• Molecule 2: N-TERMINAL PEPTIDE OF FIBER PROTEIN

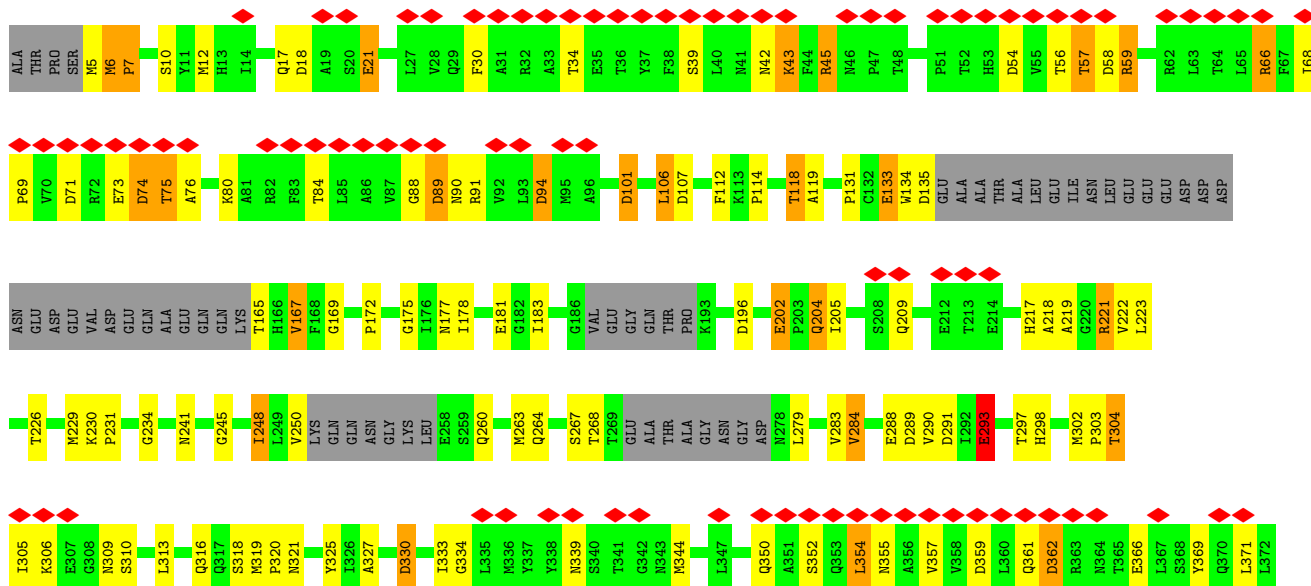


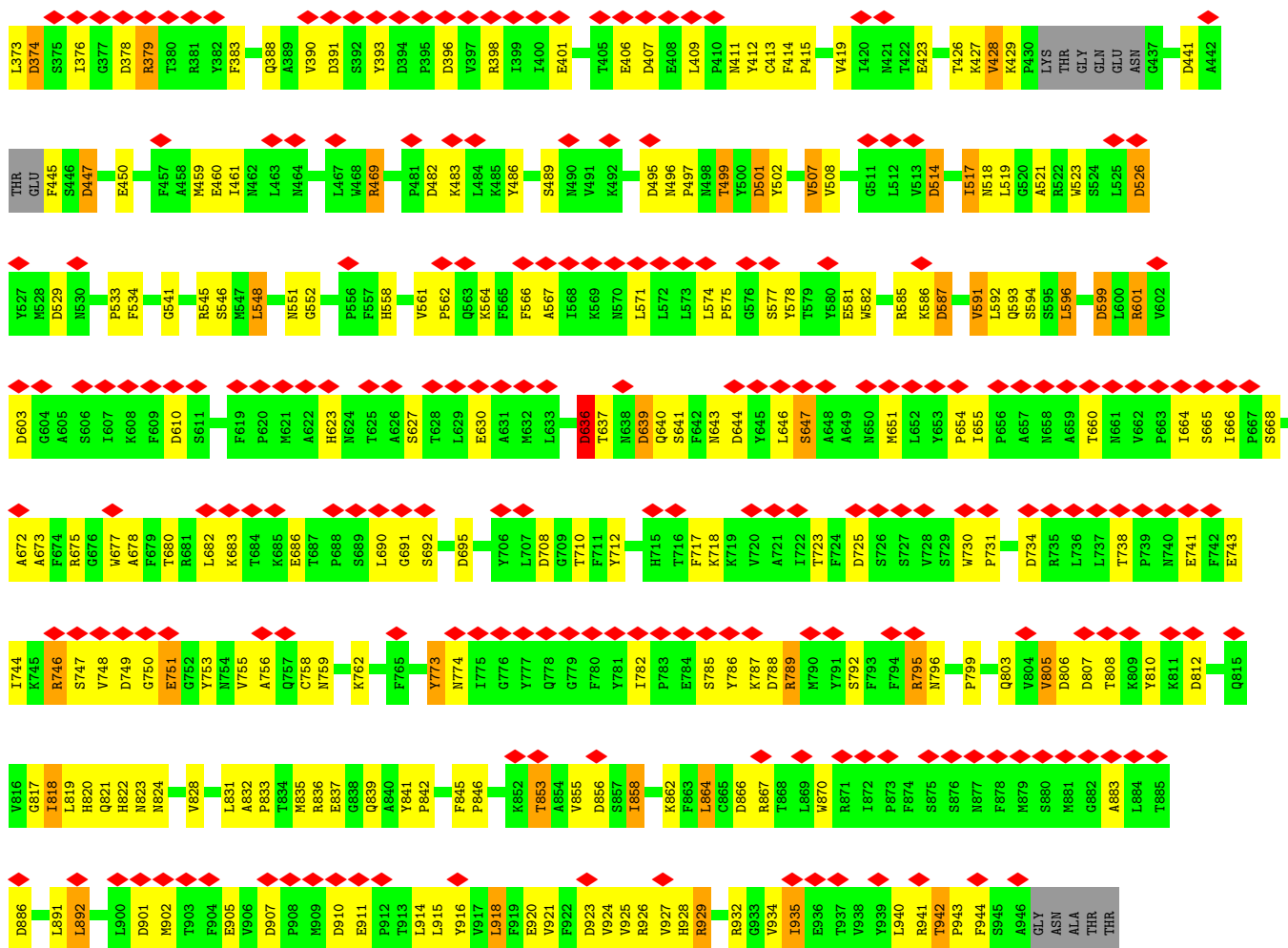
• Molecule 3: HEXON PROTEIN



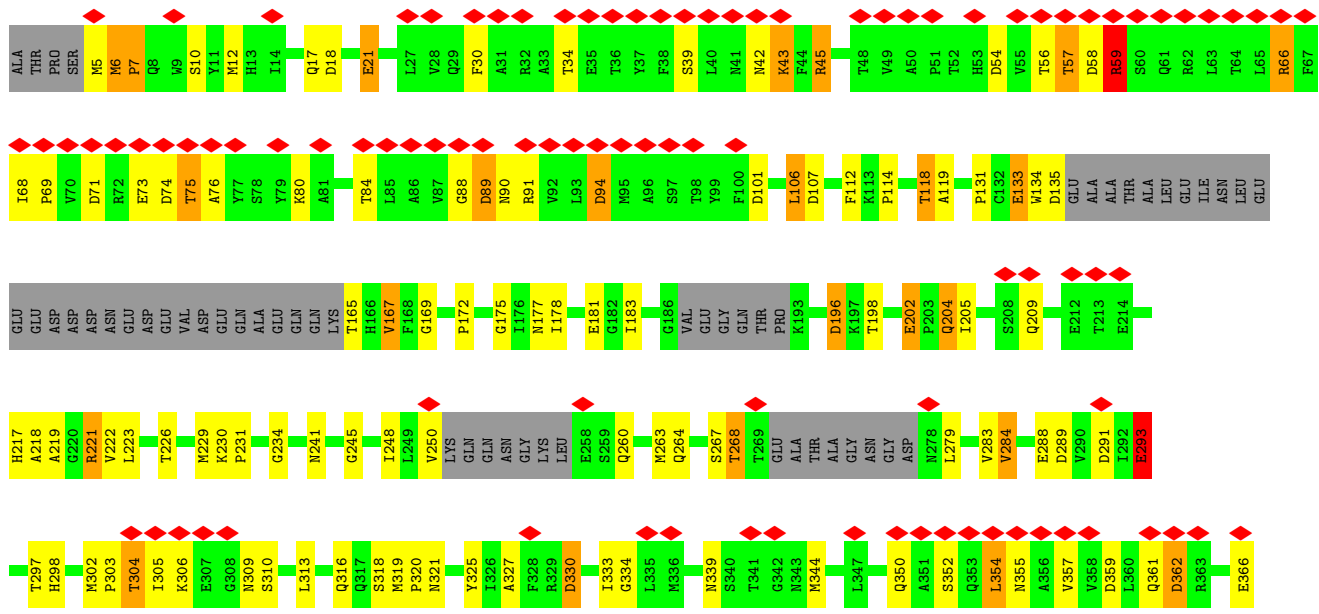


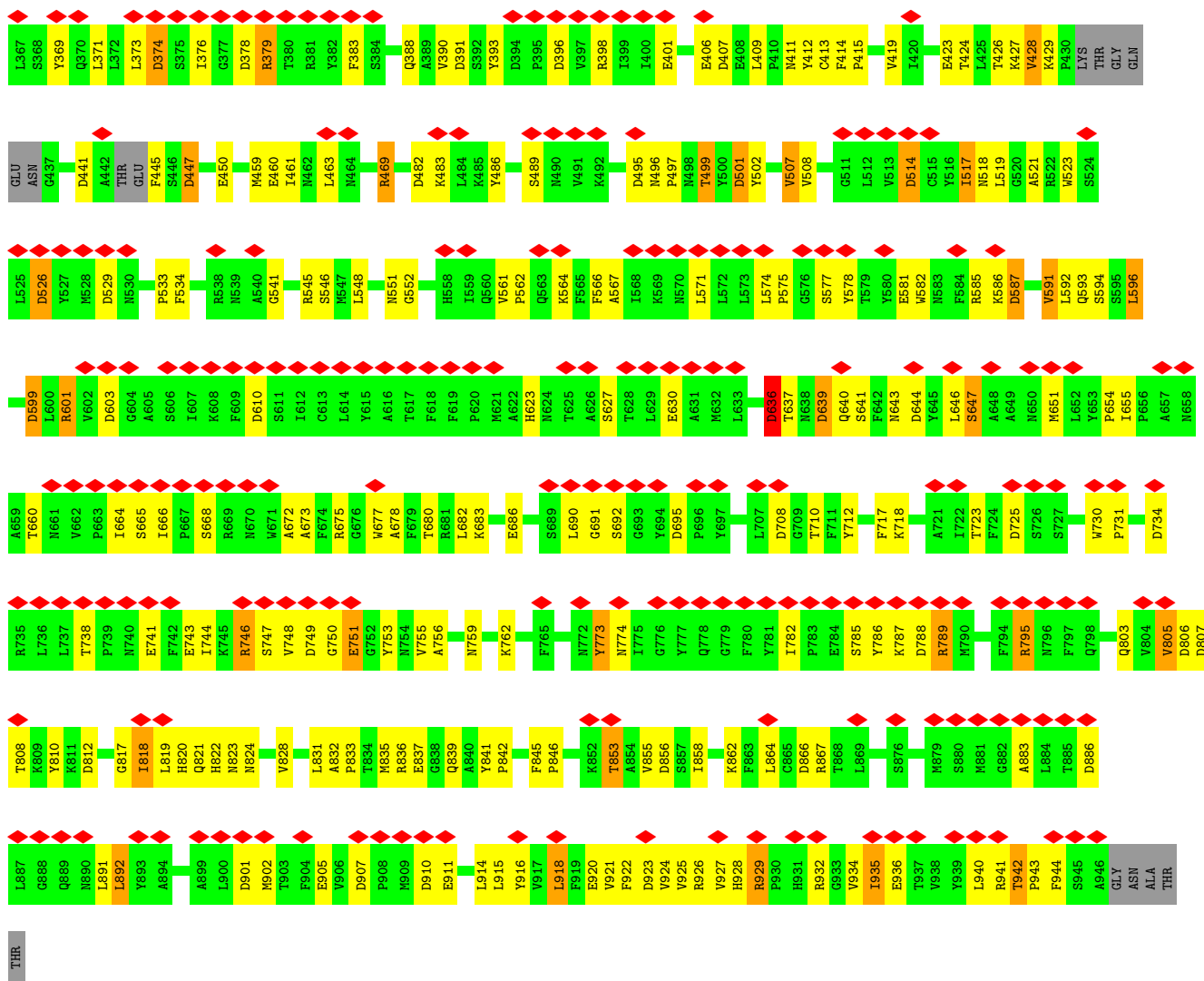
• Molecule 3: HEXON PROTEIN



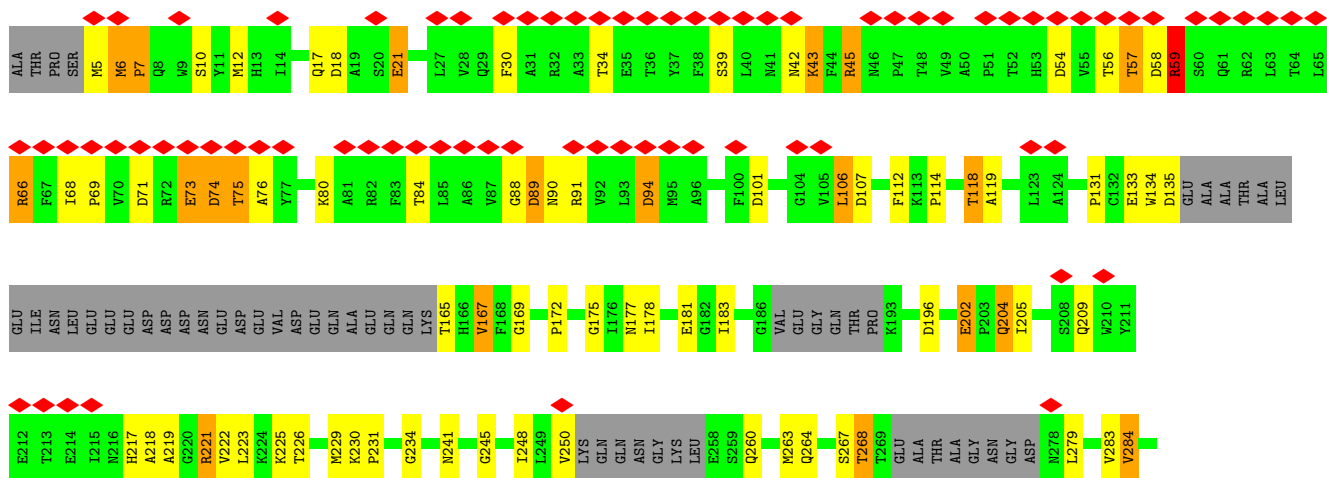


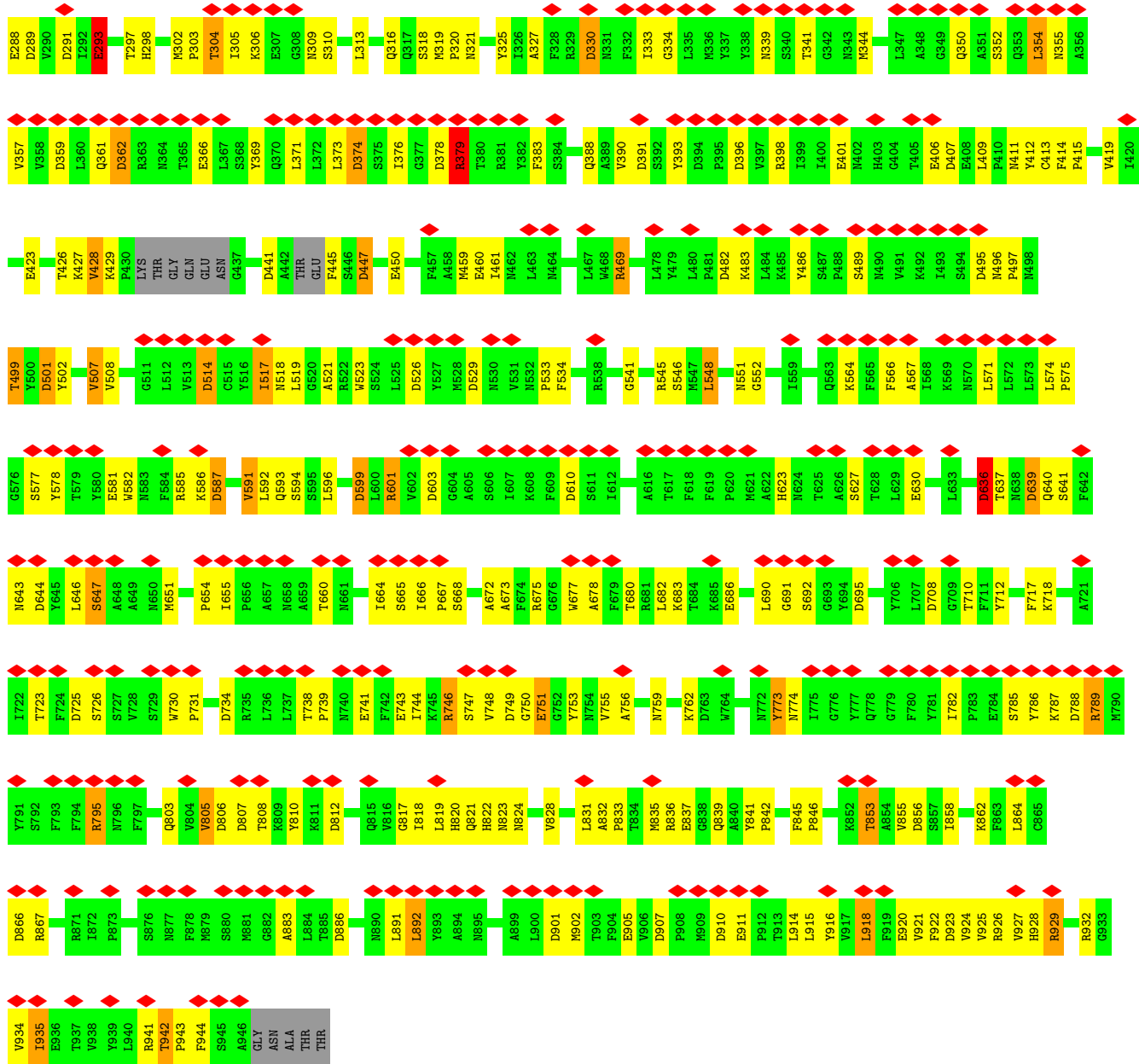
● Molecule 3: HEXON PROTEIN



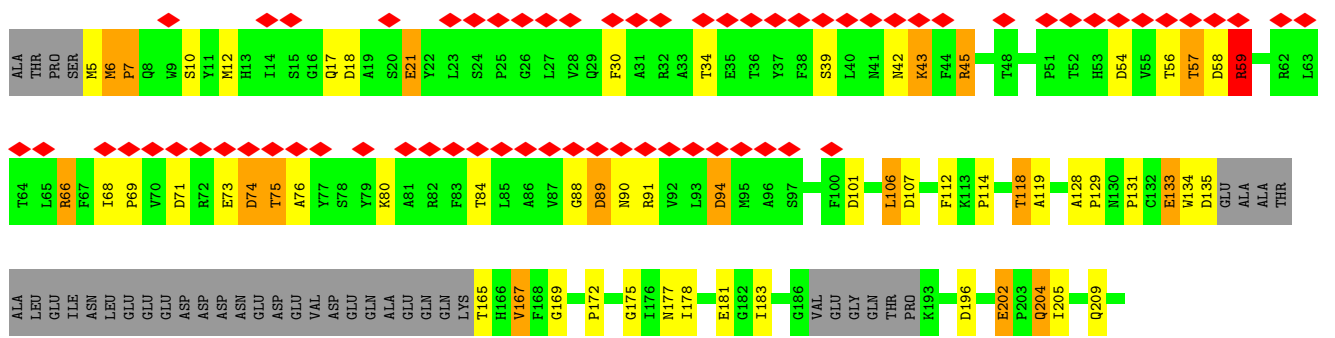


• Molecule 3: HEXON PROTEIN



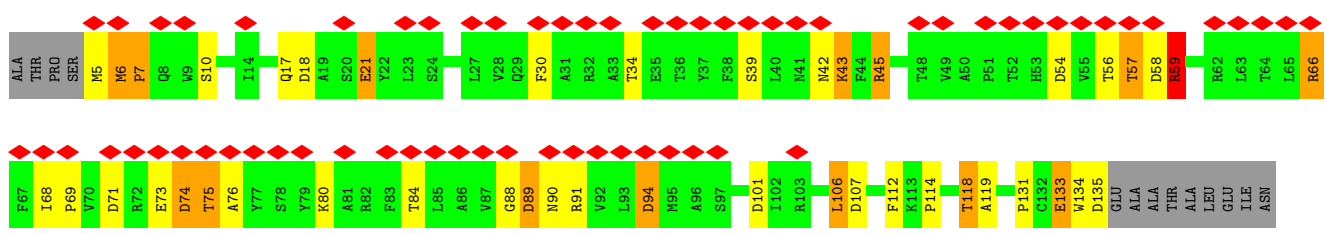


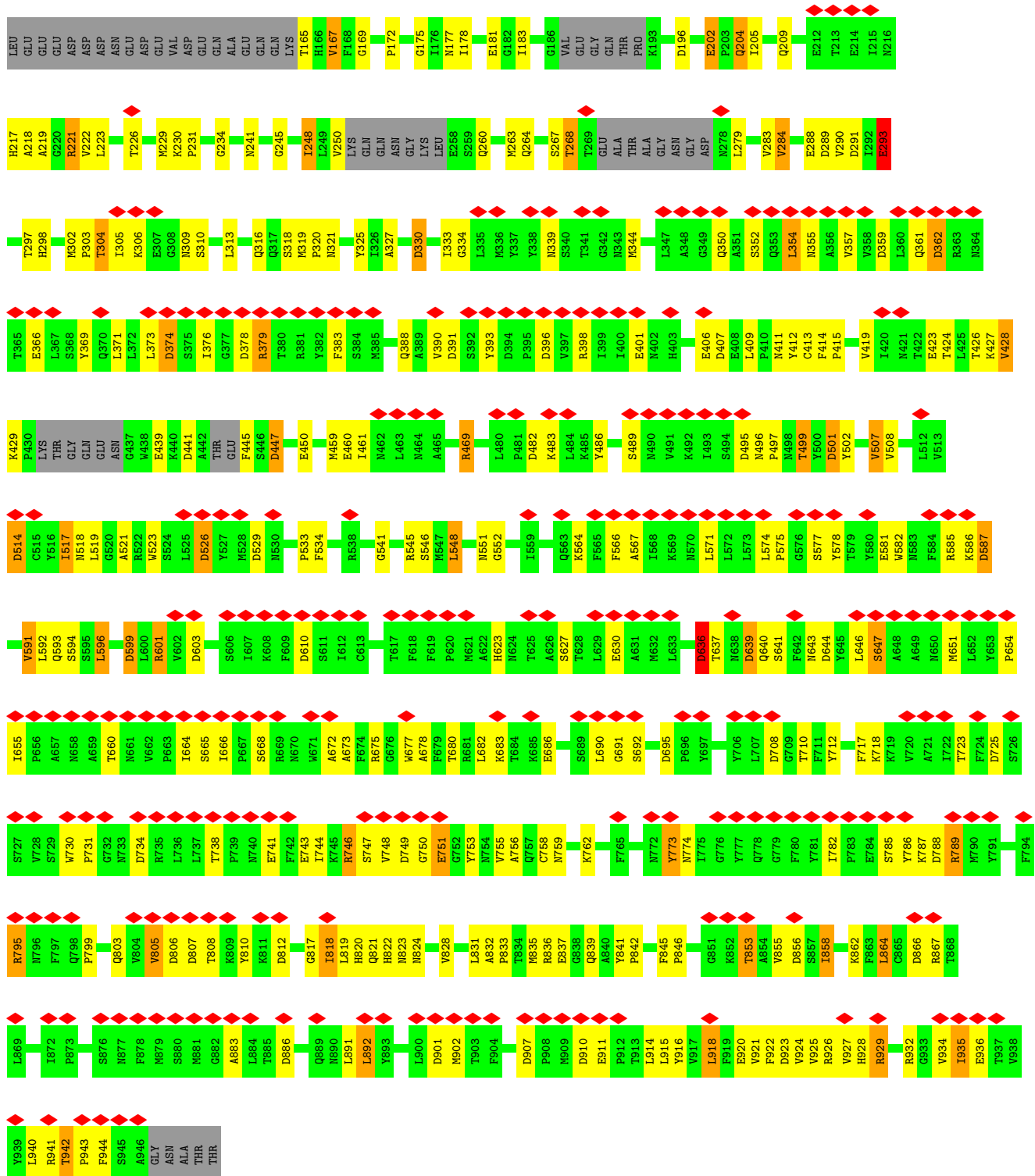
● Molecule 3: HEXON PROTEIN



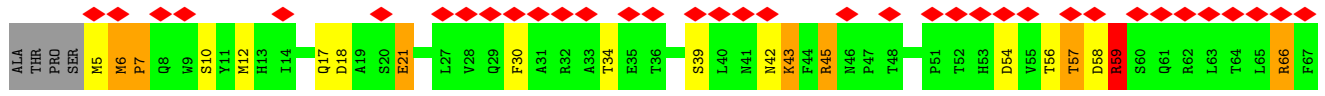


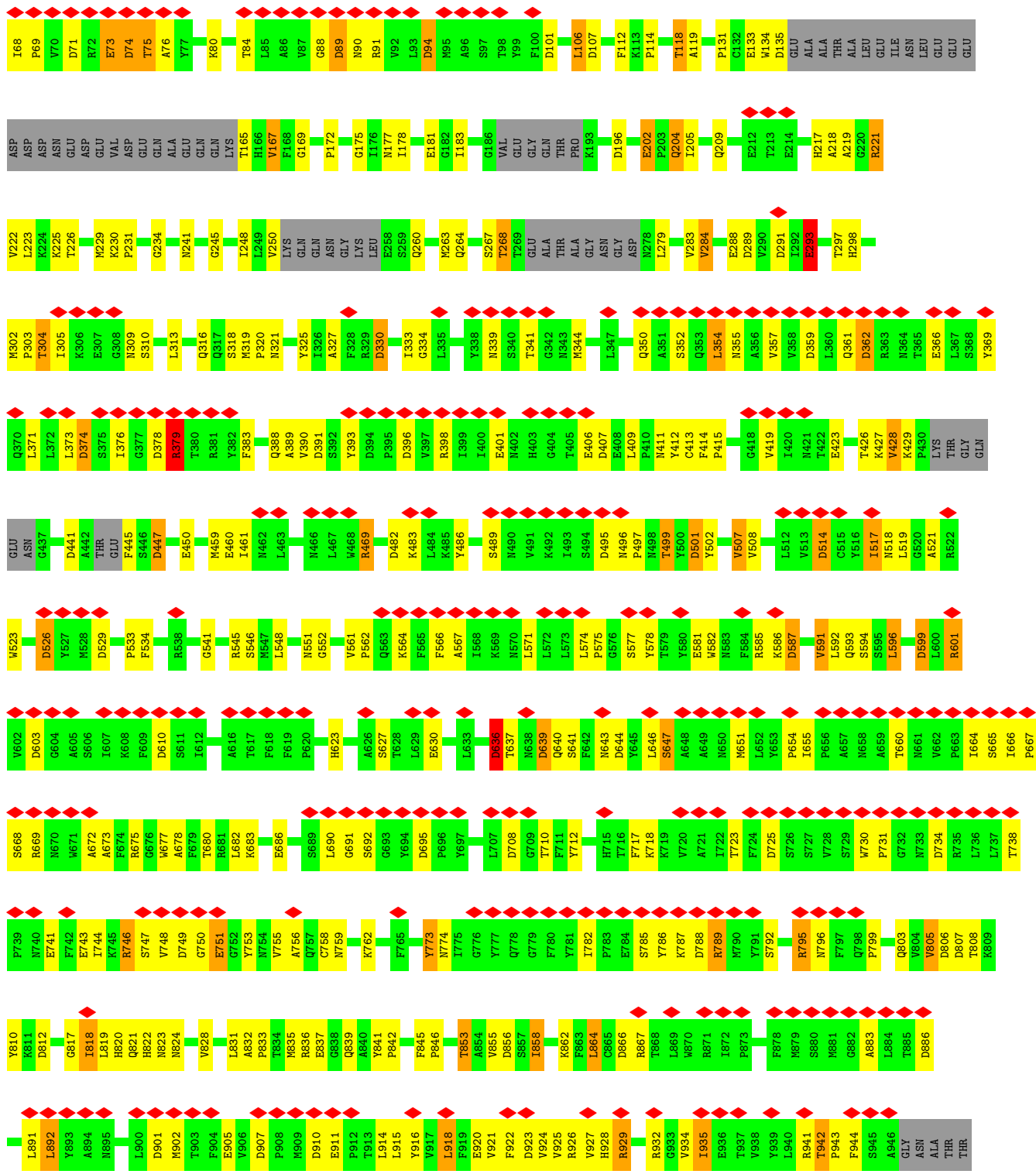
• Molecule 3: HEXON PROTEIN



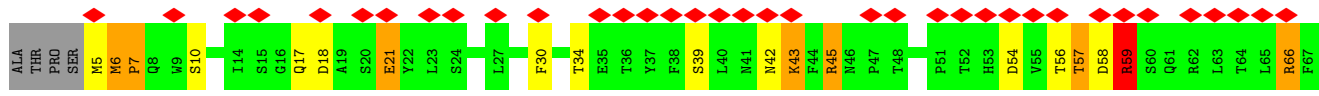


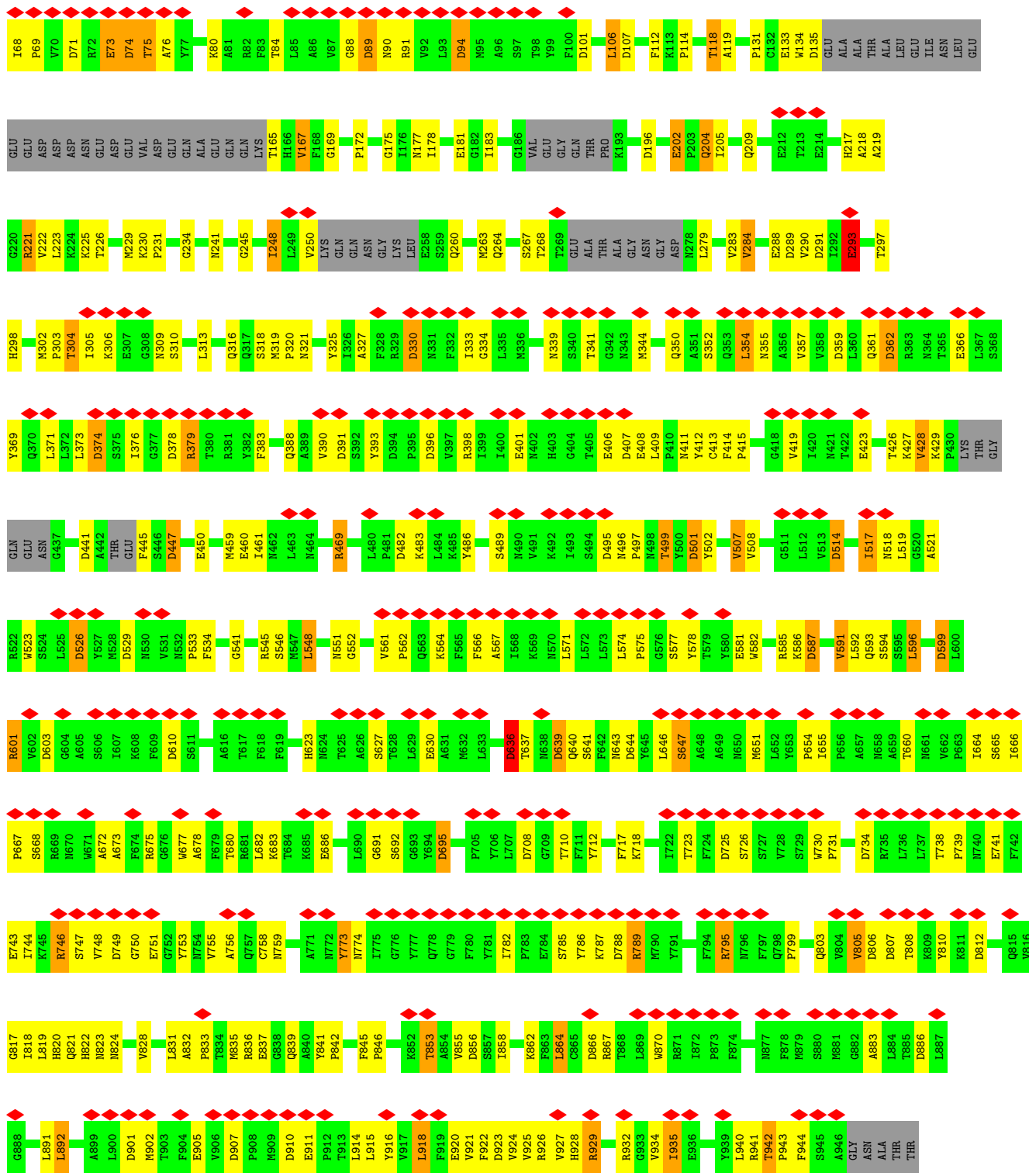
• Molecule 3: HEXON PROTEIN



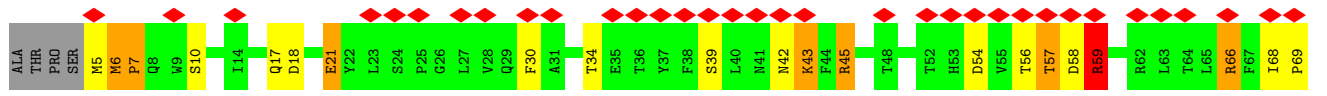


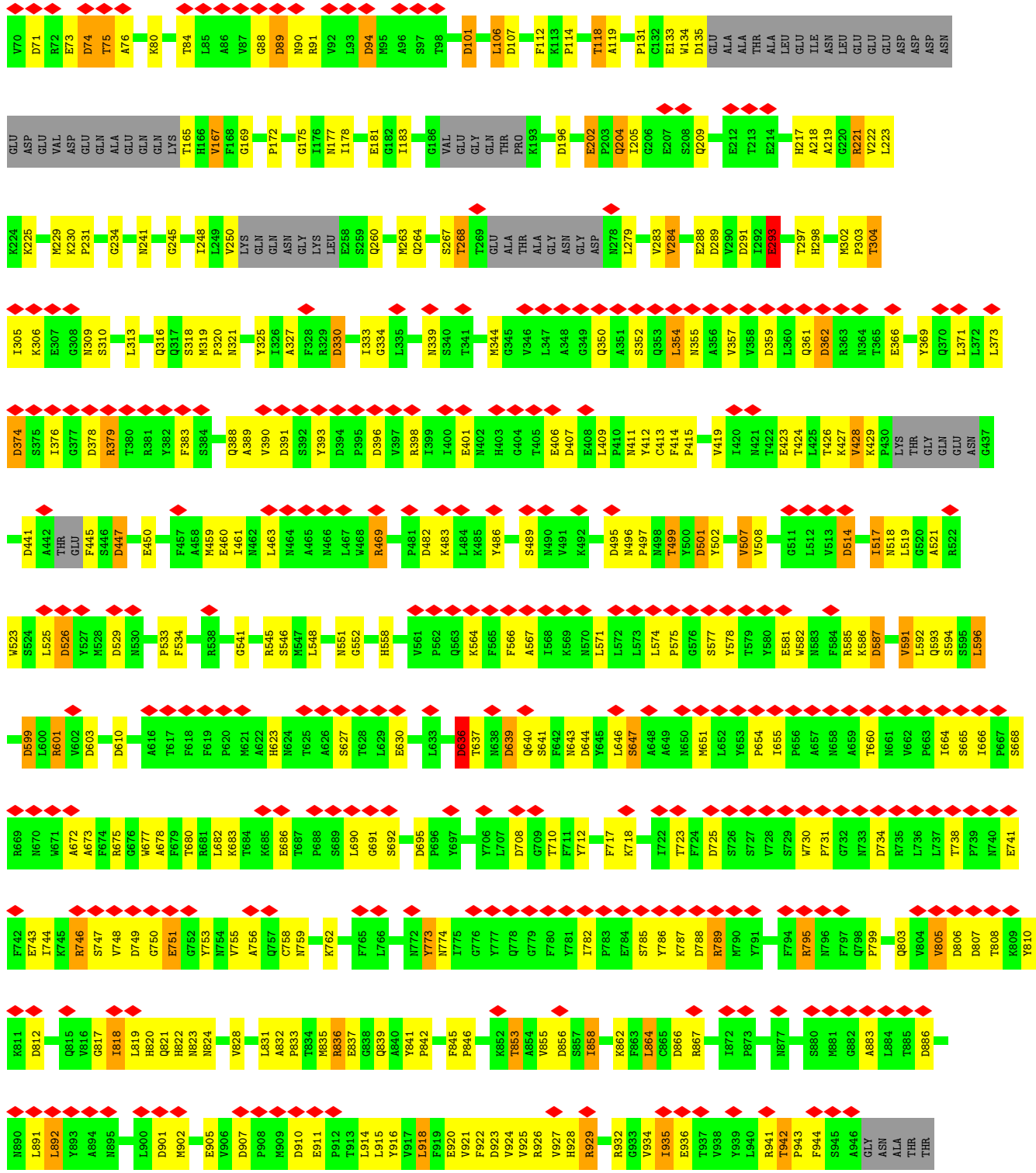
● Molecule 3: HEXON PROTEIN



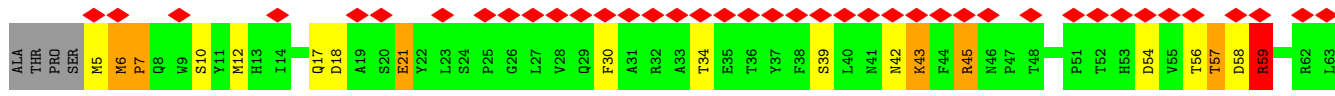


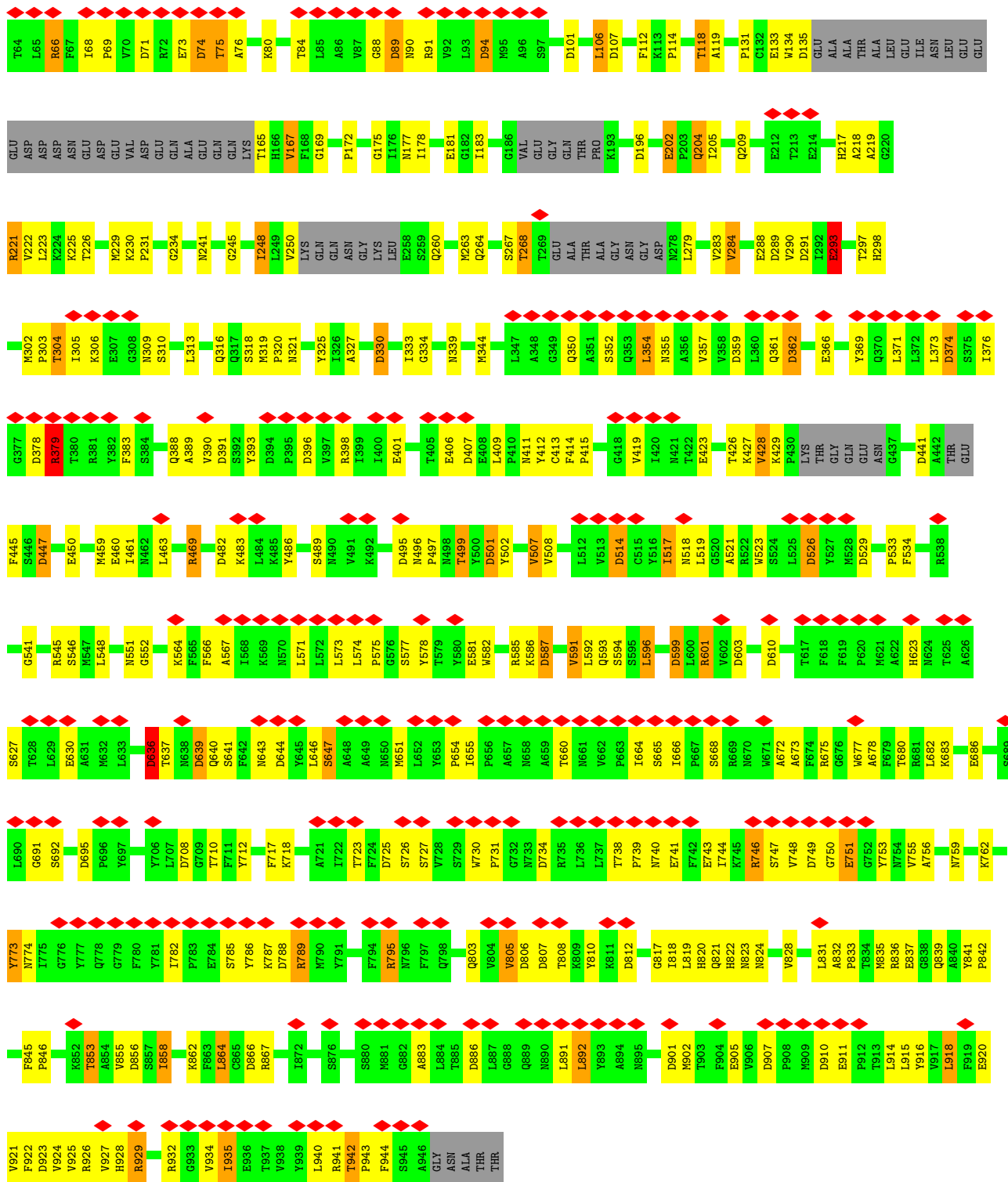
● Molecule 3: HEXON PROTEIN



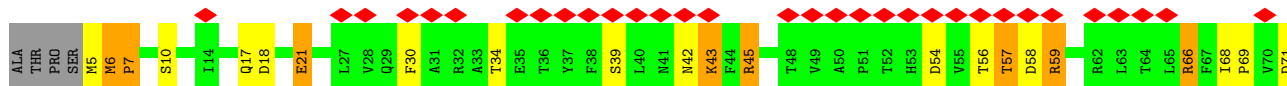


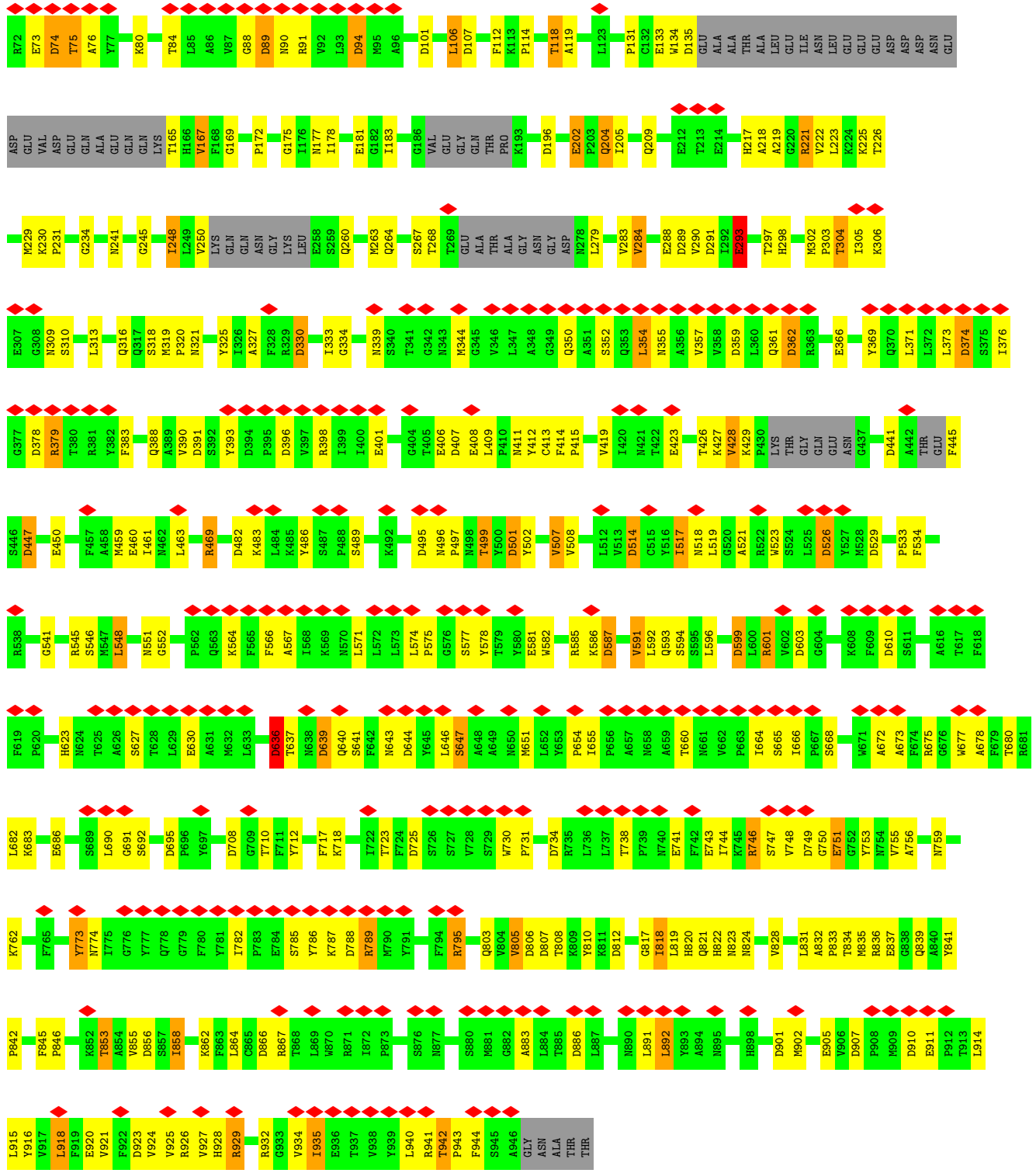
● Molecule 3: HEXON PROTEIN





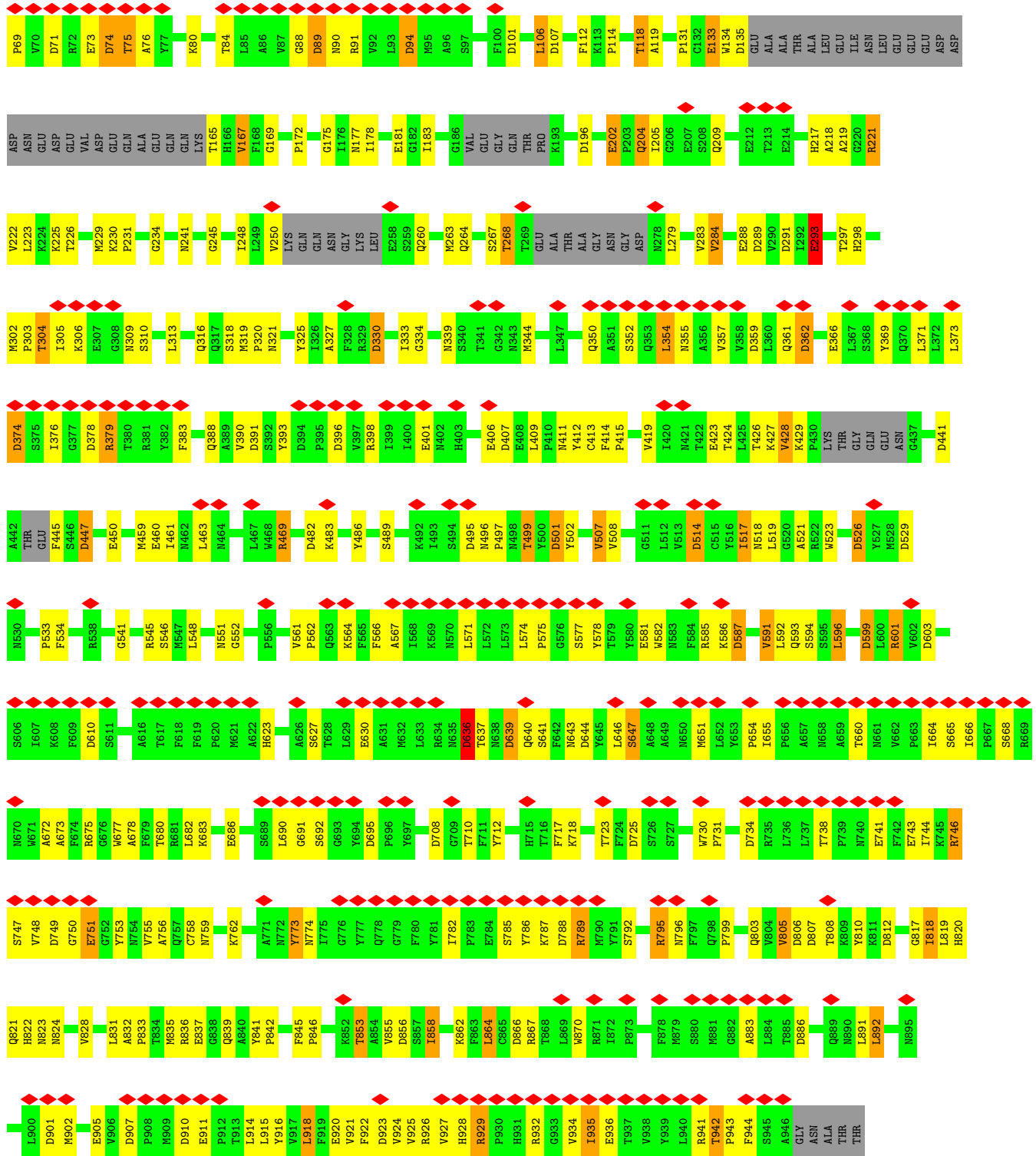
● Molecule 3: HEXON PROTEIN





● 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	475.000	Depositor
Minimum map value	-343.000	Depositor
Average map value	14.723	Depositor
Map value standard deviation	79.530	Depositor
Recommended contour level	180.0	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 i

5.1 Standard geometry i

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	0.61	0/3602	0.81	1/4904 (0.0%)
1	B	0.61	0/3602	0.81	1/4904 (0.0%)
1	C	0.61	0/3602	0.81	1/4904 (0.0%)
1	D	0.61	0/3602	0.81	1/4904 (0.0%)
1	E	0.61	0/3602	0.81	1/4904 (0.0%)
2	S	0.66	0/90	0.69	0/125
2	T	0.66	0/90	0.68	0/125
2	U	0.66	0/90	0.68	0/125
2	V	0.67	0/90	0.69	0/125
2	W	0.66	0/90	0.69	0/125
3	F	0.66	22/7133 (0.3%)	1.05	100/9725 (1.0%)
3	G	0.66	22/7133 (0.3%)	1.05	96/9725 (1.0%)
3	H	0.66	23/7133 (0.3%)	1.05	99/9725 (1.0%)
3	I	0.66	21/7133 (0.3%)	1.05	100/9725 (1.0%)
3	J	0.66	23/7133 (0.3%)	1.05	97/9725 (1.0%)
3	K	0.66	22/7133 (0.3%)	1.05	99/9725 (1.0%)
3	L	0.66	21/7133 (0.3%)	1.05	100/9725 (1.0%)
3	M	0.66	22/7133 (0.3%)	1.05	98/9725 (1.0%)
3	N	0.66	22/7133 (0.3%)	1.05	99/9725 (1.0%)
3	O	0.66	21/7133 (0.3%)	1.05	100/9725 (1.0%)
3	P	0.66	22/7133 (0.3%)	1.05	96/9725 (1.0%)
3	Q	0.66	23/7133 (0.3%)	1.05	99/9725 (1.0%)
All	All	0.65	264/104056 (0.3%)	1.01	1188/141845 (0.8%)

All (264) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	G	423	GLU	CD-OE1	5.79	1.32	1.25
3	H	911	GLU	CD-OE1	5.74	1.31	1.25
3	Q	911	GLU	CD-OE1	5.71	1.31	1.25
3	N	911	GLU	CD-OE1	5.71	1.31	1.25
3	P	423	GLU	CD-OE1	5.71	1.31	1.25
3	J	423	GLU	CD-OE1	5.70	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	920	GLU	CD-OE2	5.66	1.31	1.25
3	K	911	GLU	CD-OE1	5.66	1.31	1.25
3	O	423	GLU	CD-OE1	5.66	1.31	1.25
3	M	423	GLU	CD-OE1	5.66	1.31	1.25
3	L	423	GLU	CD-OE1	5.65	1.31	1.25
3	F	911	GLU	CD-OE1	5.63	1.31	1.25
3	I	911	GLU	CD-OE1	5.62	1.31	1.25
3	M	920	GLU	CD-OE2	5.62	1.31	1.25
3	I	920	GLU	CD-OE2	5.62	1.31	1.25
3	L	911	GLU	CD-OE1	5.62	1.31	1.25
3	J	911	GLU	CD-OE1	5.61	1.31	1.25
3	F	920	GLU	CD-OE2	5.60	1.31	1.25
3	O	288	GLU	CD-OE2	5.60	1.31	1.25
3	M	911	GLU	CD-OE1	5.59	1.31	1.25
3	I	288	GLU	CD-OE2	5.59	1.31	1.25
3	M	686	GLU	CD-OE2	5.59	1.31	1.25
3	L	920	GLU	CD-OE2	5.59	1.31	1.25
3	P	686	GLU	CD-OE2	5.58	1.31	1.25
3	J	920	GLU	CD-OE2	5.58	1.31	1.25
3	F	423	GLU	CD-OE1	5.58	1.31	1.25
3	I	423	GLU	CD-OE1	5.58	1.31	1.25
3	P	920	GLU	CD-OE2	5.58	1.31	1.25
3	O	911	GLU	CD-OE1	5.57	1.31	1.25
3	G	920	GLU	CD-OE2	5.57	1.31	1.25
3	G	911	GLU	CD-OE1	5.56	1.31	1.25
3	F	288	GLU	CD-OE2	5.55	1.31	1.25
3	G	686	GLU	CD-OE2	5.55	1.31	1.25
3	N	73	GLU	CD-OE2	5.55	1.31	1.25
3	H	73	GLU	CD-OE2	5.54	1.31	1.25
3	Q	460	GLU	CD-OE1	5.54	1.31	1.25
3	P	911	GLU	CD-OE1	5.54	1.31	1.25
3	L	288	GLU	CD-OE2	5.54	1.31	1.25
3	J	460	GLU	CD-OE1	5.53	1.31	1.25
3	K	73	GLU	CD-OE2	5.53	1.31	1.25
3	H	460	GLU	CD-OE1	5.53	1.31	1.25
3	L	751	GLU	CD-OE2	5.53	1.31	1.25
3	L	630	GLU	CD-OE2	5.52	1.31	1.25
3	H	743	GLU	CD-OE2	5.52	1.31	1.25
3	I	751	GLU	CD-OE2	5.51	1.31	1.25
3	F	751	GLU	CD-OE2	5.51	1.31	1.25
3	O	630	GLU	CD-OE2	5.51	1.31	1.25
3	J	686	GLU	CD-OE2	5.51	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	751	GLU	CD-OE2	5.51	1.31	1.25
3	G	460	GLU	CD-OE1	5.51	1.31	1.25
3	Q	73	GLU	CD-OE2	5.51	1.31	1.25
3	N	743	GLU	CD-OE2	5.50	1.31	1.25
3	L	181	GLU	CD-OE2	5.50	1.31	1.25
3	K	743	GLU	CD-OE2	5.50	1.31	1.25
3	O	751	GLU	CD-OE2	5.50	1.31	1.25
3	H	751	GLU	CD-OE2	5.49	1.31	1.25
3	Q	920	GLU	CD-OE2	5.49	1.31	1.25
3	K	460	GLU	CD-OE1	5.48	1.31	1.25
3	K	920	GLU	CD-OE2	5.48	1.31	1.25
3	O	366	GLU	CD-OE2	5.47	1.31	1.25
3	H	920	GLU	CD-OE2	5.47	1.31	1.25
3	N	920	GLU	CD-OE2	5.47	1.31	1.25
3	N	460	GLU	CD-OE1	5.46	1.31	1.25
3	F	630	GLU	CD-OE2	5.46	1.31	1.25
3	I	202	GLU	CD-OE2	5.46	1.31	1.25
3	F	460	GLU	CD-OE1	5.46	1.31	1.25
3	N	406	GLU	CD-OE2	5.46	1.31	1.25
3	O	460	GLU	CD-OE1	5.45	1.31	1.25
3	Q	743	GLU	CD-OE2	5.45	1.31	1.25
3	H	423	GLU	CD-OE1	5.45	1.31	1.25
3	Q	423	GLU	CD-OE1	5.45	1.31	1.25
3	P	460	GLU	CD-OE1	5.44	1.31	1.25
3	N	423	GLU	CD-OE1	5.44	1.31	1.25
3	L	366	GLU	CD-OE2	5.44	1.31	1.25
3	N	751	GLU	CD-OE2	5.44	1.31	1.25
3	F	406	GLU	CD-OE2	5.43	1.31	1.25
3	M	288	GLU	CD-OE2	5.43	1.31	1.25
3	K	406	GLU	CD-OE2	5.43	1.31	1.25
3	K	423	GLU	CD-OE1	5.43	1.31	1.25
3	I	460	GLU	CD-OE1	5.42	1.31	1.25
3	O	181	GLU	CD-OE2	5.42	1.31	1.25
3	M	181	GLU	CD-OE2	5.42	1.31	1.25
3	M	450	GLU	CD-OE2	5.42	1.31	1.25
3	F	366	GLU	CD-OE2	5.42	1.31	1.25
3	J	73	GLU	CD-OE2	5.41	1.31	1.25
3	I	630	GLU	CD-OE2	5.41	1.31	1.25
3	H	686	GLU	CD-OE2	5.41	1.31	1.25
3	M	460	GLU	CD-OE1	5.41	1.31	1.25
3	F	181	GLU	CD-OE2	5.41	1.31	1.25
3	J	751	GLU	CD-OE2	5.40	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Q	751	GLU	CD-OE2	5.40	1.31	1.25
3	H	406	GLU	CD-OE2	5.40	1.31	1.25
3	L	460	GLU	CD-OE1	5.40	1.31	1.25
3	J	741	GLU	CD-OE1	5.40	1.31	1.25
3	M	751	GLU	CD-OE2	5.40	1.31	1.25
3	I	366	GLU	CD-OE2	5.40	1.31	1.25
3	K	686	GLU	CD-OE2	5.40	1.31	1.25
3	Q	406	GLU	CD-OE2	5.40	1.31	1.25
3	M	73	GLU	CD-OE2	5.40	1.31	1.25
3	P	630	GLU	CD-OE2	5.40	1.31	1.25
3	O	686	GLU	CD-OE2	5.39	1.31	1.25
3	F	686	GLU	CD-OE2	5.39	1.31	1.25
3	G	73	GLU	CD-OE2	5.39	1.31	1.25
3	I	21	GLU	CD-OE2	5.39	1.31	1.25
3	I	686	GLU	CD-OE2	5.39	1.31	1.25
3	L	202	GLU	CD-OE2	5.39	1.31	1.25
3	L	406	GLU	CD-OE2	5.38	1.31	1.25
3	P	450	GLU	CD-OE2	5.38	1.31	1.25
3	O	406	GLU	CD-OE2	5.38	1.31	1.25
3	J	181	GLU	CD-OE2	5.38	1.31	1.25
3	L	21	GLU	CD-OE2	5.38	1.31	1.25
3	I	406	GLU	CD-OE2	5.38	1.31	1.25
3	J	630	GLU	CD-OE2	5.38	1.31	1.25
3	P	73	GLU	CD-OE2	5.38	1.31	1.25
3	P	751	GLU	CD-OE2	5.38	1.31	1.25
3	G	751	GLU	CD-OE2	5.37	1.31	1.25
3	M	202	GLU	CD-OE2	5.37	1.31	1.25
3	I	181	GLU	CD-OE2	5.37	1.31	1.25
3	P	181	GLU	CD-OE2	5.36	1.31	1.25
3	Q	401	GLU	CD-OE1	5.36	1.31	1.25
3	M	21	GLU	CD-OE2	5.36	1.31	1.25
3	F	202	GLU	CD-OE2	5.36	1.31	1.25
3	L	686	GLU	CD-OE2	5.36	1.31	1.25
3	G	181	GLU	CD-OE2	5.36	1.31	1.25
3	F	741	GLU	CD-OE1	5.36	1.31	1.25
3	J	202	GLU	CD-OE2	5.36	1.31	1.25
3	G	741	GLU	CD-OE1	5.36	1.31	1.25
3	N	450	GLU	CD-OE2	5.36	1.31	1.25
3	O	741	GLU	CD-OE1	5.36	1.31	1.25
3	J	450	GLU	CD-OE2	5.35	1.31	1.25
3	N	686	GLU	CD-OE2	5.35	1.31	1.25
3	I	743	GLU	CD-OE2	5.35	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	202	GLU	CD-OE2	5.35	1.31	1.25
3	O	581	GLU	CD-OE2	5.35	1.31	1.25
3	F	21	GLU	CD-OE2	5.34	1.31	1.25
3	G	630	GLU	CD-OE2	5.34	1.31	1.25
3	K	450	GLU	CD-OE2	5.34	1.31	1.25
3	H	401	GLU	CD-OE1	5.34	1.31	1.25
3	P	741	GLU	CD-OE1	5.34	1.31	1.25
3	M	630	GLU	CD-OE2	5.34	1.31	1.25
3	G	288	GLU	CD-OE2	5.34	1.31	1.25
3	O	743	GLU	CD-OE2	5.34	1.31	1.25
3	H	450	GLU	CD-OE2	5.33	1.31	1.25
3	N	401	GLU	CD-OE1	5.33	1.31	1.25
3	F	581	GLU	CD-OE2	5.33	1.31	1.25
3	I	450	GLU	CD-OE2	5.33	1.31	1.25
3	N	741	GLU	CD-OE1	5.33	1.31	1.25
3	H	741	GLU	CD-OE1	5.33	1.31	1.25
3	M	741	GLU	CD-OE1	5.33	1.31	1.25
3	L	743	GLU	CD-OE2	5.32	1.31	1.25
3	M	366	GLU	CD-OE2	5.32	1.31	1.25
3	Q	741	GLU	CD-OE1	5.32	1.31	1.25
3	P	288	GLU	CD-OE2	5.32	1.31	1.25
3	Q	686	GLU	CD-OE2	5.32	1.31	1.25
3	J	406	GLU	CD-OE2	5.32	1.31	1.25
3	J	288	GLU	CD-OE2	5.31	1.31	1.25
3	G	21	GLU	CD-OE2	5.31	1.31	1.25
3	G	202	GLU	CD-OE2	5.31	1.31	1.25
3	I	73	GLU	CD-OE2	5.31	1.31	1.25
3	M	406	GLU	CD-OE2	5.31	1.31	1.25
3	P	202	GLU	CD-OE2	5.31	1.31	1.25
3	P	366	GLU	CD-OE2	5.31	1.31	1.25
3	H	181	GLU	CD-OE2	5.30	1.31	1.25
3	J	21	GLU	CD-OE2	5.30	1.31	1.25
3	F	905	GLU	CD-OE2	5.30	1.31	1.25
3	I	581	GLU	CD-OE2	5.30	1.31	1.25
3	Q	450	GLU	CD-OE2	5.30	1.31	1.25
3	J	366	GLU	CD-OE2	5.30	1.31	1.25
3	L	450	GLU	CD-OE2	5.30	1.31	1.25
3	F	743	GLU	CD-OE2	5.30	1.31	1.25
3	I	741	GLU	CD-OE1	5.30	1.31	1.25
3	I	905	GLU	CD-OE2	5.30	1.31	1.25
3	O	73	GLU	CD-OE2	5.29	1.31	1.25
3	O	905	GLU	CD-OE2	5.29	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	M	743	GLU	CD-OE2	5.28	1.31	1.25
3	L	741	GLU	CD-OE1	5.28	1.31	1.25
3	P	406	GLU	CD-OE2	5.28	1.31	1.25
3	O	401	GLU	CD-OE1	5.27	1.31	1.25
3	K	288	GLU	CD-OE2	5.27	1.31	1.25
3	P	21	GLU	CD-OE2	5.27	1.31	1.25
3	F	450	GLU	CD-OE2	5.27	1.31	1.25
3	H	630	GLU	CD-OE2	5.27	1.31	1.25
3	K	181	GLU	CD-OE2	5.27	1.31	1.25
3	L	581	GLU	CD-OE2	5.27	1.31	1.25
3	N	288	GLU	CD-OE2	5.26	1.31	1.25
3	O	21	GLU	CD-OE2	5.26	1.31	1.25
3	N	181	GLU	CD-OE2	5.26	1.31	1.25
3	L	401	GLU	CD-OE1	5.26	1.31	1.25
3	L	905	GLU	CD-OE2	5.26	1.31	1.25
3	O	450	GLU	CD-OE2	5.26	1.31	1.25
3	G	450	GLU	CD-OE2	5.26	1.31	1.25
3	F	73	GLU	CD-OE2	5.25	1.31	1.25
3	K	401	GLU	CD-OE1	5.25	1.31	1.25
3	K	630	GLU	CD-OE2	5.25	1.31	1.25
3	Q	181	GLU	CD-OE2	5.24	1.31	1.25
3	Q	202	GLU	CD-OE2	5.24	1.31	1.25
3	K	202	GLU	CD-OE2	5.24	1.31	1.25
3	G	743	GLU	CD-OE2	5.24	1.31	1.25
3	K	741	GLU	CD-OE1	5.24	1.31	1.25
3	L	73	GLU	CD-OE2	5.24	1.31	1.25
3	N	202	GLU	CD-OE2	5.23	1.31	1.25
3	Q	630	GLU	CD-OE2	5.23	1.31	1.25
3	H	202	GLU	CD-OE2	5.22	1.31	1.25
3	N	366	GLU	CD-OE2	5.22	1.31	1.25
3	G	366	GLU	CD-OE2	5.22	1.31	1.25
3	J	743	GLU	CD-OE2	5.22	1.31	1.25
3	Q	366	GLU	CD-OE2	5.22	1.31	1.25
3	N	630	GLU	CD-OE2	5.22	1.31	1.25
3	G	406	GLU	CD-OE2	5.21	1.31	1.25
3	Q	288	GLU	CD-OE2	5.21	1.31	1.25
3	N	581	GLU	CD-OE2	5.21	1.31	1.25
3	H	288	GLU	CD-OE2	5.20	1.31	1.25
3	Q	936	GLU	CD-OE2	5.20	1.31	1.25
3	F	401	GLU	CD-OE1	5.20	1.31	1.25
3	H	581	GLU	CD-OE2	5.19	1.31	1.25
3	I	401	GLU	CD-OE1	5.19	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	293	GLU	CD-OE2	5.19	1.31	1.25
3	P	743	GLU	CD-OE2	5.19	1.31	1.25
3	M	293	GLU	CD-OE2	5.18	1.31	1.25
3	H	366	GLU	CD-OE2	5.17	1.31	1.25
3	G	905	GLU	CD-OE2	5.17	1.31	1.25
3	F	293	GLU	CD-OE2	5.17	1.31	1.25
3	P	905	GLU	CD-OE2	5.17	1.31	1.25
3	L	293	GLU	CD-OE2	5.16	1.31	1.25
3	H	936	GLU	CD-OE2	5.16	1.31	1.25
3	N	936	GLU	CD-OE2	5.16	1.31	1.25
3	G	401	GLU	CD-OE1	5.15	1.31	1.25
3	Q	21	GLU	CD-OE2	5.15	1.31	1.25
3	K	936	GLU	CD-OE2	5.15	1.31	1.25
3	Q	581	GLU	CD-OE2	5.15	1.31	1.25
3	J	905	GLU	CD-OE2	5.14	1.31	1.25
3	K	581	GLU	CD-OE2	5.14	1.31	1.25
3	M	401	GLU	CD-OE1	5.14	1.31	1.25
3	K	21	GLU	CD-OE2	5.13	1.31	1.25
3	J	401	GLU	CD-OE1	5.12	1.31	1.25
3	O	293	GLU	CD-OE2	5.12	1.31	1.25
3	G	293	GLU	CD-OE2	5.12	1.31	1.25
3	M	581	GLU	CD-OE2	5.12	1.31	1.25
3	G	581	GLU	CD-OE2	5.11	1.31	1.25
3	P	401	GLU	CD-OE1	5.11	1.31	1.25
3	K	366	GLU	CD-OE2	5.10	1.31	1.25
3	P	293	GLU	CD-OE2	5.10	1.31	1.25
3	H	21	GLU	CD-OE2	5.10	1.31	1.25
3	H	905	GLU	CD-OE2	5.09	1.31	1.25
3	H	293	GLU	CD-OE2	5.08	1.31	1.25
3	P	581	GLU	CD-OE2	5.07	1.31	1.25
3	J	293	GLU	CD-OE2	5.07	1.31	1.25
3	N	293	GLU	CD-OE2	5.07	1.31	1.25
3	M	905	GLU	CD-OE2	5.06	1.31	1.25
3	F	408	GLU	CD-OE1	5.06	1.31	1.25
3	N	21	GLU	CD-OE2	5.06	1.31	1.25
3	G	133	GLU	CD-OE2	5.05	1.31	1.25
3	K	133	GLU	CD-OE2	5.05	1.31	1.25
3	N	905	GLU	CD-OE2	5.05	1.31	1.25
3	J	133	GLU	CD-OE2	5.05	1.31	1.25
3	J	581	GLU	CD-OE2	5.05	1.31	1.25
3	Q	293	GLU	CD-OE2	5.05	1.31	1.25
3	J	408	GLU	CD-OE1	5.04	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Q	905	GLU	CD-OE2	5.04	1.31	1.25
3	M	408	GLU	CD-OE1	5.03	1.31	1.25
3	P	408	GLU	CD-OE1	5.03	1.31	1.25
3	Q	133	GLU	CD-OE2	5.02	1.31	1.25
3	H	133	GLU	CD-OE2	5.01	1.31	1.25
3	K	293	GLU	CD-OE2	5.01	1.31	1.25

All (1188) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	482	TYR	N-CA-C	-7.27	91.36	111.00
1	A	482	TYR	N-CA-C	-7.27	91.37	111.00
1	B	482	TYR	N-CA-C	-7.26	91.40	111.00
1	D	482	TYR	N-CA-C	-7.26	91.40	111.00
1	E	482	TYR	N-CA-C	-7.25	91.42	111.00
3	N	289	ASP	CB-CG-OD2	-7.07	111.94	118.30
3	K	289	ASP	CB-CG-OD2	-7.05	111.95	118.30
3	G	289	ASP	CB-CG-OD2	-7.03	111.97	118.30
3	Q	289	ASP	CB-CG-OD2	-7.02	111.98	118.30
3	H	289	ASP	CB-CG-OD2	-7.01	111.99	118.30
3	P	289	ASP	CB-CG-OD2	-6.98	112.02	118.30
3	J	289	ASP	CB-CG-OD2	-6.96	112.04	118.30
3	M	289	ASP	CB-CG-OD2	-6.96	112.04	118.30
3	O	610	ASP	CB-CG-OD2	-6.91	112.08	118.30
3	L	610	ASP	CB-CG-OD2	-6.90	112.09	118.30
3	I	610	ASP	CB-CG-OD2	-6.87	112.12	118.30
3	J	18	ASP	CB-CG-OD2	-6.85	112.13	118.30
3	F	289	ASP	CB-CG-OD2	-6.85	112.13	118.30
3	G	599	ASP	CB-CG-OD2	-6.84	112.14	118.30
3	M	18	ASP	CB-CG-OD2	-6.84	112.15	118.30
3	P	18	ASP	CB-CG-OD2	-6.83	112.15	118.30
3	G	18	ASP	CB-CG-OD2	-6.83	112.15	118.30
3	F	610	ASP	CB-CG-OD2	-6.82	112.16	118.30
3	K	18	ASP	CB-CG-OD2	-6.82	112.16	118.30
3	I	289	ASP	CB-CG-OD2	-6.82	112.16	118.30
3	L	289	ASP	CB-CG-OD2	-6.82	112.17	118.30
3	I	18	ASP	CB-CG-OD2	-6.81	112.17	118.30
3	O	289	ASP	CB-CG-OD2	-6.81	112.17	118.30
3	P	599	ASP	CB-CG-OD2	-6.80	112.18	118.30
3	Q	18	ASP	CB-CG-OD2	-6.80	112.18	118.30
3	L	599	ASP	CB-CG-OD2	-6.78	112.20	118.30
3	J	599	ASP	CB-CG-OD2	-6.77	112.20	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	599	ASP	CB-CG-OD2	-6.76	112.22	118.30
3	N	18	ASP	CB-CG-OD2	-6.76	112.22	118.30
3	H	18	ASP	CB-CG-OD2	-6.75	112.22	118.30
3	L	18	ASP	CB-CG-OD2	-6.75	112.23	118.30
3	Q	806	ASP	CB-CG-OD2	-6.74	112.24	118.30
3	L	107	ASP	CB-CG-OD1	6.73	124.36	118.30
3	F	18	ASP	CB-CG-OD2	-6.73	112.24	118.30
3	G	359	ASP	CB-CG-OD2	-6.73	112.25	118.30
3	I	107	ASP	CB-CG-OD1	6.73	124.35	118.30
3	N	599	ASP	CB-CG-OD2	-6.72	112.25	118.30
3	J	359	ASP	CB-CG-OD2	-6.72	112.25	118.30
3	L	107	ASP	CB-CG-OD2	-6.72	112.25	118.30
3	H	610	ASP	CB-CG-OD2	-6.71	112.26	118.30
3	K	599	ASP	CB-CG-OD2	-6.71	112.26	118.30
3	M	359	ASP	CB-CG-OD2	-6.71	112.26	118.30
3	Q	599	ASP	CB-CG-OD2	-6.71	112.26	118.30
3	O	18	ASP	CB-CG-OD2	-6.70	112.27	118.30
3	N	610	ASP	CB-CG-OD2	-6.70	112.27	118.30
3	F	107	ASP	CB-CG-OD2	-6.70	112.27	118.30
3	I	107	ASP	CB-CG-OD2	-6.70	112.27	118.30
3	P	359	ASP	CB-CG-OD2	-6.70	112.27	118.30
3	K	610	ASP	CB-CG-OD2	-6.70	112.27	118.30
3	F	599	ASP	CB-CG-OD2	-6.70	112.27	118.30
3	K	806	ASP	CB-CG-OD2	-6.69	112.28	118.30
3	Q	610	ASP	CB-CG-OD2	-6.69	112.28	118.30
3	N	359	ASP	CB-CG-OD2	-6.68	112.29	118.30
3	I	599	ASP	CB-CG-OD2	-6.68	112.29	118.30
3	O	599	ASP	CB-CG-OD2	-6.67	112.29	118.30
3	H	806	ASP	CB-CG-OD2	-6.67	112.30	118.30
3	O	107	ASP	CB-CG-OD1	6.67	124.30	118.30
3	K	107	ASP	CB-CG-OD1	6.66	124.30	118.30
3	K	359	ASP	CB-CG-OD2	-6.66	112.31	118.30
3	N	107	ASP	CB-CG-OD1	6.66	124.29	118.30
3	Q	107	ASP	CB-CG-OD1	6.65	124.29	118.30
3	Q	359	ASP	CB-CG-OD2	-6.65	112.31	118.30
3	P	107	ASP	CB-CG-OD1	6.65	124.28	118.30
3	O	107	ASP	CB-CG-OD2	-6.64	112.32	118.30
3	F	107	ASP	CB-CG-OD1	6.64	124.28	118.30
3	P	610	ASP	CB-CG-OD2	-6.64	112.32	118.30
3	H	359	ASP	CB-CG-OD2	-6.64	112.32	118.30
3	N	806	ASP	CB-CG-OD2	-6.63	112.33	118.30
3	H	599	ASP	CB-CG-OD2	-6.63	112.33	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	107	ASP	CB-CG-OD1	6.62	124.26	118.30
3	G	107	ASP	CB-CG-OD1	6.62	124.25	118.30
3	Q	107	ASP	CB-CG-OD2	-6.62	112.35	118.30
3	M	107	ASP	CB-CG-OD2	-6.61	112.35	118.30
3	K	107	ASP	CB-CG-OD2	-6.60	112.36	118.30
3	J	610	ASP	CB-CG-OD2	-6.60	112.36	118.30
3	P	107	ASP	CB-CG-OD2	-6.60	112.36	118.30
3	H	107	ASP	CB-CG-OD1	6.59	124.24	118.30
3	G	806	ASP	CB-CG-OD2	-6.59	112.37	118.30
3	J	107	ASP	CB-CG-OD1	6.59	124.23	118.30
3	N	107	ASP	CB-CG-OD2	-6.59	112.37	118.30
3	M	610	ASP	CB-CG-OD2	-6.59	112.37	118.30
3	G	107	ASP	CB-CG-OD2	-6.58	112.37	118.30
3	P	806	ASP	CB-CG-OD2	-6.57	112.39	118.30
3	J	806	ASP	CB-CG-OD2	-6.57	112.39	118.30
3	M	396	ASP	CB-CG-OD2	-6.57	112.39	118.30
3	J	107	ASP	CB-CG-OD2	-6.56	112.39	118.30
3	L	396	ASP	CB-CG-OD2	-6.56	112.40	118.30
3	H	107	ASP	CB-CG-OD2	-6.56	112.40	118.30
3	G	610	ASP	CB-CG-OD2	-6.55	112.41	118.30
3	M	806	ASP	CB-CG-OD2	-6.55	112.41	118.30
3	O	396	ASP	CB-CG-OD2	-6.52	112.43	118.30
3	F	359	ASP	CB-CG-OD2	-6.52	112.43	118.30
3	O	495	ASP	CB-CG-OD2	-6.52	112.44	118.30
3	O	359	ASP	CB-CG-OD2	-6.51	112.44	118.30
3	I	806	ASP	CB-CG-OD2	-6.51	112.44	118.30
3	L	495	ASP	CB-CG-OD2	-6.51	112.44	118.30
3	G	901	ASP	CB-CG-OD2	-6.51	112.44	118.30
3	O	806	ASP	CB-CG-OD2	-6.51	112.44	118.30
3	F	806	ASP	CB-CG-OD2	-6.50	112.45	118.30
3	G	725	ASP	CB-CG-OD2	-6.50	112.45	118.30
3	P	396	ASP	CB-CG-OD2	-6.50	112.45	118.30
3	F	886	ASP	CB-CG-OD2	-6.50	112.45	118.30
3	L	359	ASP	CB-CG-OD2	-6.50	112.45	118.30
3	O	886	ASP	CB-CG-OD2	-6.49	112.45	118.30
3	M	901	ASP	CB-CG-OD2	-6.49	112.46	118.30
3	I	396	ASP	CB-CG-OD2	-6.49	112.46	118.30
3	P	725	ASP	CB-CG-OD2	-6.49	112.46	118.30
3	I	495	ASP	CB-CG-OD2	-6.49	112.46	118.30
3	J	725	ASP	CB-CG-OD2	-6.49	112.46	118.30
3	L	806	ASP	CB-CG-OD2	-6.48	112.47	118.30
3	G	396	ASP	CB-CG-OD2	-6.48	112.47	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	901	ASP	CB-CG-OD2	-6.48	112.47	118.30
3	I	359	ASP	CB-CG-OD2	-6.47	112.47	118.30
3	F	396	ASP	CB-CG-OD2	-6.47	112.48	118.30
3	F	495	ASP	CB-CG-OD2	-6.46	112.48	118.30
3	J	396	ASP	CB-CG-OD2	-6.46	112.48	118.30
3	I	886	ASP	CB-CG-OD2	-6.46	112.48	118.30
3	I	725	ASP	CB-CG-OD2	-6.46	112.49	118.30
3	K	901	ASP	CB-CG-OD2	-6.46	112.49	118.30
3	M	725	ASP	CB-CG-OD2	-6.46	112.49	118.30
3	L	901	ASP	CB-CG-OD2	-6.46	112.49	118.30
3	P	901	ASP	CB-CG-OD2	-6.46	112.49	118.30
3	O	725	ASP	CB-CG-OD2	-6.45	112.49	118.30
3	G	495	ASP	CB-CG-OD2	-6.45	112.50	118.30
3	J	495	ASP	CB-CG-OD2	-6.45	112.50	118.30
3	O	901	ASP	CB-CG-OD2	-6.45	112.50	118.30
3	G	378	ASP	CB-CG-OD2	-6.44	112.50	118.30
3	F	725	ASP	CB-CG-OD2	-6.44	112.50	118.30
3	I	901	ASP	CB-CG-OD2	-6.44	112.51	118.30
3	H	901	ASP	CB-CG-OD2	-6.43	112.51	118.30
3	F	378	ASP	CB-CG-OD2	-6.43	112.51	118.30
3	F	901	ASP	CB-CG-OD2	-6.43	112.51	118.30
3	L	886	ASP	CB-CG-OD2	-6.43	112.51	118.30
3	N	901	ASP	CB-CG-OD2	-6.43	112.51	118.30
3	M	495	ASP	CB-CG-OD2	-6.42	112.52	118.30
3	Q	396	ASP	CB-CG-OD2	-6.42	112.53	118.30
3	L	725	ASP	CB-CG-OD2	-6.42	112.53	118.30
3	N	495	ASP	CB-CG-OD2	-6.41	112.53	118.30
3	G	644	ASP	CB-CG-OD2	-6.41	112.53	118.30
3	H	886	ASP	CB-CG-OD1	6.41	124.07	118.30
3	K	495	ASP	CB-CG-OD2	-6.40	112.54	118.30
3	O	378	ASP	CB-CG-OD2	-6.40	112.54	118.30
3	P	18	ASP	CB-CG-OD1	6.39	124.06	118.30
3	P	495	ASP	CB-CG-OD2	-6.39	112.54	118.30
3	H	396	ASP	CB-CG-OD2	-6.39	112.55	118.30
3	J	18	ASP	CB-CG-OD1	6.39	124.05	118.30
3	K	396	ASP	CB-CG-OD2	-6.39	112.55	118.30
3	N	725	ASP	CB-CG-OD2	-6.39	112.55	118.30
3	M	378	ASP	CB-CG-OD2	-6.38	112.56	118.30
3	N	886	ASP	CB-CG-OD1	6.38	124.05	118.30
3	Q	495	ASP	CB-CG-OD2	-6.38	112.56	118.30
3	N	396	ASP	CB-CG-OD2	-6.38	112.56	118.30
3	N	362	ASP	CB-CG-OD2	-6.38	112.56	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	378	ASP	CB-CG-OD2	-6.38	112.56	118.30
3	Q	725	ASP	CB-CG-OD2	-6.38	112.56	118.30
3	K	378	ASP	CB-CG-OD2	-6.38	112.56	118.30
3	K	501	ASP	CB-CG-OD2	-6.38	112.56	118.30
3	M	886	ASP	CB-CG-OD2	-6.38	112.56	118.30
3	P	378	ASP	CB-CG-OD2	-6.38	112.56	118.30
3	J	886	ASP	CB-CG-OD2	-6.37	112.57	118.30
3	H	495	ASP	CB-CG-OD2	-6.36	112.57	118.30
3	G	886	ASP	CB-CG-OD2	-6.36	112.58	118.30
3	N	886	ASP	CB-CG-OD2	-6.36	112.58	118.30
3	Q	886	ASP	CB-CG-OD1	6.36	124.03	118.30
3	Q	901	ASP	CB-CG-OD2	-6.36	112.58	118.30
3	K	362	ASP	CB-CG-OD2	-6.36	112.58	118.30
3	P	644	ASP	CB-CG-OD2	-6.36	112.58	118.30
3	L	886	ASP	CB-CG-OD1	6.36	124.02	118.30
3	M	18	ASP	CB-CG-OD1	6.36	124.02	118.30
3	H	378	ASP	CB-CG-OD2	-6.35	112.58	118.30
3	I	886	ASP	CB-CG-OD1	6.35	124.02	118.30
3	J	644	ASP	CB-CG-OD2	-6.35	112.58	118.30
3	P	886	ASP	CB-CG-OD1	6.35	124.02	118.30
3	M	886	ASP	CB-CG-OD1	6.35	124.02	118.30
3	K	725	ASP	CB-CG-OD2	-6.35	112.58	118.30
3	F	886	ASP	CB-CG-OD1	6.35	124.01	118.30
3	G	18	ASP	CB-CG-OD1	6.35	124.01	118.30
3	K	18	ASP	CB-CG-OD1	6.35	124.01	118.30
3	I	378	ASP	CB-CG-OD2	-6.34	112.59	118.30
3	N	378	ASP	CB-CG-OD2	-6.34	112.59	118.30
3	H	362	ASP	CB-CG-OD2	-6.34	112.59	118.30
3	H	725	ASP	CB-CG-OD2	-6.34	112.59	118.30
3	M	644	ASP	CB-CG-OD2	-6.34	112.59	118.30
3	Q	378	ASP	CB-CG-OD2	-6.34	112.60	118.30
3	L	378	ASP	CB-CG-OD2	-6.34	112.60	118.30
3	Q	391	ASP	CB-CG-OD1	-6.34	112.60	118.30
3	Q	18	ASP	CB-CG-OD1	6.33	124.00	118.30
3	K	886	ASP	CB-CG-OD1	6.33	124.00	118.30
3	G	362	ASP	CB-CG-OD2	-6.33	112.60	118.30
3	H	18	ASP	CB-CG-OD1	6.33	124.00	118.30
3	Q	362	ASP	CB-CG-OD2	-6.33	112.60	118.30
3	G	441	ASP	CB-CG-OD2	-6.32	112.61	118.30
3	Q	501	ASP	CB-CG-OD2	-6.32	112.61	118.30
3	G	886	ASP	CB-CG-OD1	6.32	123.99	118.30
3	N	501	ASP	CB-CG-OD2	-6.32	112.61	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	441	ASP	CB-CG-OD2	-6.32	112.61	118.30
3	P	886	ASP	CB-CG-OD2	-6.32	112.61	118.30
3	P	708	ASP	CB-CG-OD1	-6.32	112.62	118.30
3	I	501	ASP	CB-CG-OD2	-6.31	112.62	118.30
3	G	708	ASP	CB-CG-OD1	-6.31	112.62	118.30
3	L	362	ASP	CB-CG-OD2	-6.31	112.62	118.30
3	J	441	ASP	CB-CG-OD2	-6.31	112.62	118.30
3	H	501	ASP	CB-CG-OD2	-6.31	112.62	118.30
3	N	18	ASP	CB-CG-OD1	6.31	123.98	118.30
3	K	886	ASP	CB-CG-OD2	-6.30	112.63	118.30
3	M	501	ASP	CB-CG-OD2	-6.30	112.63	118.30
3	Q	708	ASP	CB-CG-OD1	-6.30	112.63	118.30
3	H	886	ASP	CB-CG-OD2	-6.29	112.64	118.30
3	J	362	ASP	CB-CG-OD2	-6.29	112.64	118.30
3	P	441	ASP	CB-CG-OD2	-6.29	112.64	118.30
3	M	708	ASP	CB-CG-OD1	-6.29	112.64	118.30
3	O	886	ASP	CB-CG-OD1	6.29	123.96	118.30
3	J	708	ASP	CB-CG-OD1	-6.29	112.64	118.30
3	N	708	ASP	CB-CG-OD1	-6.29	112.64	118.30
3	K	708	ASP	CB-CG-OD1	-6.29	112.64	118.30
3	I	54	ASP	CB-CG-OD1	-6.28	112.64	118.30
3	L	54	ASP	CB-CG-OD1	-6.28	112.65	118.30
3	Q	788	ASP	CB-CG-OD2	-6.28	112.65	118.30
3	F	501	ASP	CB-CG-OD2	-6.28	112.65	118.30
3	J	886	ASP	CB-CG-OD1	6.28	123.95	118.30
3	N	54	ASP	CB-CG-OD1	-6.28	112.65	118.30
3	H	788	ASP	CB-CG-OD2	-6.27	112.66	118.30
3	O	362	ASP	CB-CG-OD2	-6.27	112.66	118.30
3	Q	886	ASP	CB-CG-OD2	-6.27	112.66	118.30
3	Q	644	ASP	CB-CG-OD2	-6.26	112.67	118.30
3	G	501	ASP	CB-CG-OD2	-6.26	112.67	118.30
3	M	788	ASP	CB-CG-OD2	-6.26	112.67	118.30
3	O	501	ASP	CB-CG-OD2	-6.26	112.67	118.30
3	I	708	ASP	CB-CG-OD1	-6.25	112.67	118.30
3	N	644	ASP	CB-CG-OD2	-6.25	112.67	118.30
3	O	54	ASP	CB-CG-OD1	-6.25	112.67	118.30
3	I	362	ASP	CB-CG-OD2	-6.25	112.67	118.30
3	L	501	ASP	CB-CG-OD2	-6.25	112.67	118.30
3	P	482	ASP	CB-CG-OD2	-6.25	112.67	118.30
3	F	54	ASP	CB-CG-OD1	-6.25	112.67	118.30
3	J	501	ASP	CB-CG-OD2	-6.25	112.67	118.30
3	F	362	ASP	CB-CG-OD2	-6.25	112.68	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	708	ASP	CB-CG-OD1	-6.25	112.68	118.30
3	G	788	ASP	CB-CG-OD2	-6.25	112.68	118.30
3	K	391	ASP	CB-CG-OD1	-6.25	112.68	118.30
3	N	807	ASP	CB-CG-OD2	-6.25	112.68	118.30
3	O	644	ASP	CB-CG-OD2	-6.25	112.68	118.30
3	P	501	ASP	CB-CG-OD2	-6.25	112.68	118.30
3	H	708	ASP	CB-CG-OD1	-6.25	112.68	118.30
3	H	807	ASP	CB-CG-OD2	-6.24	112.68	118.30
3	H	54	ASP	CB-CG-OD1	-6.24	112.68	118.30
3	H	644	ASP	CB-CG-OD2	-6.24	112.69	118.30
3	N	391	ASP	CB-CG-OD1	-6.24	112.69	118.30
3	K	788	ASP	CB-CG-OD2	-6.23	112.69	118.30
3	M	362	ASP	CB-CG-OD2	-6.23	112.69	118.30
3	G	636	ASP	CB-CG-OD2	-6.23	112.69	118.30
3	Q	54	ASP	CB-CG-OD1	-6.23	112.69	118.30
3	M	636	ASP	CB-CG-OD2	-6.23	112.70	118.30
3	H	907	ASP	CB-CG-OD1	-6.22	112.70	118.30
3	Q	907	ASP	CB-CG-OD1	-6.22	112.70	118.30
3	P	362	ASP	CB-CG-OD2	-6.22	112.70	118.30
3	J	788	ASP	CB-CG-OD2	-6.22	112.70	118.30
3	L	636	ASP	CB-CG-OD2	-6.22	112.70	118.30
3	N	788	ASP	CB-CG-OD2	-6.21	112.71	118.30
3	H	391	ASP	CB-CG-OD1	-6.21	112.71	118.30
3	I	636	ASP	CB-CG-OD2	-6.21	112.71	118.30
3	O	708	ASP	CB-CG-OD1	-6.21	112.71	118.30
3	O	636	ASP	CB-CG-OD2	-6.21	112.71	118.30
3	F	101	ASP	CB-CG-OD1	-6.21	112.71	118.30
3	I	18	ASP	CB-CG-OD1	6.21	123.89	118.30
3	L	101	ASP	CB-CG-OD1	-6.21	112.72	118.30
3	P	636	ASP	CB-CG-OD2	-6.21	112.72	118.30
3	J	636	ASP	CB-CG-OD2	-6.20	112.72	118.30
3	K	907	ASP	CB-CG-OD1	-6.20	112.72	118.30
3	P	788	ASP	CB-CG-OD2	-6.20	112.72	118.30
3	J	482	ASP	CB-CG-OD2	-6.20	112.72	118.30
3	K	54	ASP	CB-CG-OD1	-6.20	112.72	118.30
3	K	644	ASP	CB-CG-OD2	-6.20	112.72	118.30
3	Q	807	ASP	CB-CG-OD2	-6.20	112.72	118.30
3	Q	482	ASP	CB-CG-OD2	-6.20	112.72	118.30
3	N	526	ASP	CB-CG-OD1	-6.19	112.72	118.30
3	L	18	ASP	CB-CG-OD1	6.19	123.87	118.30
3	Q	58	ASP	CB-CG-OD2	-6.19	112.73	118.30
3	I	101	ASP	CB-CG-OD1	-6.19	112.73	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	644	ASP	CB-CG-OD2	-6.19	112.73	118.30
3	N	907	ASP	CB-CG-OD1	-6.19	112.73	118.30
3	O	101	ASP	CB-CG-OD1	-6.19	112.73	118.30
3	F	636	ASP	CB-CG-OD2	-6.18	112.73	118.30
3	M	482	ASP	CB-CG-OD2	-6.18	112.74	118.30
3	F	18	ASP	CB-CG-OD1	6.18	123.86	118.30
3	H	526	ASP	CB-CG-OD1	-6.18	112.74	118.30
3	K	806	ASP	CB-CG-OD1	6.18	123.86	118.30
3	H	482	ASP	CB-CG-OD2	-6.17	112.74	118.30
3	O	18	ASP	CB-CG-OD1	6.17	123.86	118.30
3	P	856	ASP	CB-CG-OD1	-6.17	112.74	118.30
3	K	526	ASP	CB-CG-OD1	-6.17	112.75	118.30
3	K	807	ASP	CB-CG-OD2	-6.17	112.75	118.30
3	M	54	ASP	CB-CG-OD1	-6.17	112.75	118.30
3	Q	636	ASP	CB-CG-OD2	-6.17	112.75	118.30
3	F	644	ASP	CB-CG-OD2	-6.16	112.75	118.30
3	H	58	ASP	CB-CG-OD2	-6.16	112.75	118.30
3	J	54	ASP	CB-CG-OD1	-6.16	112.75	118.30
3	N	806	ASP	CB-CG-OD1	6.16	123.84	118.30
3	G	482	ASP	CB-CG-OD2	-6.16	112.76	118.30
3	K	482	ASP	CB-CG-OD2	-6.16	112.76	118.30
3	M	391	ASP	CB-CG-OD1	-6.16	112.76	118.30
3	Q	526	ASP	CB-CG-OD1	-6.16	112.76	118.30
3	L	708	ASP	CB-CG-OD1	-6.16	112.76	118.30
3	M	135	ASP	CB-CG-OD2	-6.16	112.76	118.30
3	M	856	ASP	CB-CG-OD1	-6.16	112.76	118.30
3	Q	856	ASP	CB-CG-OD1	-6.15	112.76	118.30
3	H	856	ASP	CB-CG-OD1	-6.15	112.76	118.30
3	N	856	ASP	CB-CG-OD1	-6.15	112.77	118.30
3	P	135	ASP	CB-CG-OD2	-6.15	112.77	118.30
3	I	482	ASP	CB-CG-OD2	-6.14	112.77	118.30
3	L	644	ASP	CB-CG-OD2	-6.14	112.77	118.30
3	I	359	ASP	CB-CG-OD1	6.14	123.83	118.30
3	K	856	ASP	CB-CG-OD1	-6.14	112.78	118.30
3	G	135	ASP	CB-CG-OD2	-6.14	112.78	118.30
3	G	856	ASP	CB-CG-OD1	-6.14	112.78	118.30
3	O	359	ASP	CB-CG-OD1	6.14	123.82	118.30
3	H	806	ASP	CB-CG-OD1	6.13	123.82	118.30
3	L	482	ASP	CB-CG-OD2	-6.13	112.78	118.30
3	P	907	ASP	CB-CG-OD1	-6.13	112.78	118.30
3	H	636	ASP	CB-CG-OD2	-6.13	112.79	118.30
3	K	636	ASP	CB-CG-OD2	-6.13	112.79	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	907	ASP	CB-CG-OD1	-6.12	112.79	118.30
3	N	482	ASP	CB-CG-OD2	-6.12	112.79	118.30
3	F	359	ASP	CB-CG-OD1	6.12	123.81	118.30
3	N	639	ASP	CB-CG-OD2	-6.12	112.79	118.30
3	I	441	ASP	CB-CG-OD2	-6.12	112.79	118.30
3	O	58	ASP	CB-CG-OD2	-6.12	112.79	118.30
3	Q	359	ASP	CB-CG-OD1	6.12	123.81	118.30
3	F	482	ASP	CB-CG-OD2	-6.12	112.79	118.30
3	I	788	ASP	CB-CG-OD2	-6.12	112.79	118.30
3	Q	135	ASP	CB-CG-OD2	-6.12	112.80	118.30
3	F	58	ASP	CB-CG-OD2	-6.12	112.80	118.30
3	F	788	ASP	CB-CG-OD2	-6.12	112.80	118.30
3	I	639	ASP	CB-CG-OD2	-6.12	112.80	118.30
3	L	441	ASP	CB-CG-OD2	-6.12	112.80	118.30
3	O	807	ASP	CB-CG-OD2	-6.11	112.80	118.30
3	F	807	ASP	CB-CG-OD2	-6.11	112.80	118.30
3	L	58	ASP	CB-CG-OD2	-6.11	112.80	118.30
3	G	359	ASP	CB-CG-OD1	6.11	123.80	118.30
3	J	856	ASP	CB-CG-OD1	-6.11	112.80	118.30
3	H	359	ASP	CB-CG-OD1	6.11	123.80	118.30
3	I	196	ASP	CB-CG-OD2	-6.11	112.80	118.30
3	L	734	ASP	CB-CG-OD2	-6.11	112.80	118.30
3	L	788	ASP	CB-CG-OD2	-6.11	112.80	118.30
3	N	636	ASP	CB-CG-OD2	-6.11	112.81	118.30
3	N	58	ASP	CB-CG-OD2	-6.10	112.81	118.30
3	G	54	ASP	CB-CG-OD1	-6.10	112.81	118.30
3	I	135	ASP	CB-CG-OD2	-6.10	112.81	118.30
3	Q	806	ASP	CB-CG-OD1	6.10	123.79	118.30
3	G	907	ASP	CB-CG-OD1	-6.09	112.82	118.30
3	N	359	ASP	CB-CG-OD1	6.09	123.78	118.30
3	Q	101	ASP	CB-CG-OD1	-6.09	112.82	118.30
3	P	54	ASP	CB-CG-OD1	-6.09	112.82	118.30
3	N	135	ASP	CB-CG-OD2	-6.09	112.82	118.30
3	G	101	ASP	CB-CG-OD1	-6.09	112.82	118.30
3	K	441	ASP	CB-CG-OD2	-6.09	112.82	118.30
3	O	482	ASP	CB-CG-OD2	-6.09	112.82	118.30
3	P	807	ASP	CB-CG-OD2	-6.09	112.82	118.30
3	F	907	ASP	CB-CG-OD1	-6.09	112.82	118.30
3	J	807	ASP	CB-CG-OD2	-6.08	112.83	118.30
3	N	101	ASP	CB-CG-OD1	-6.08	112.83	118.30
3	F	734	ASP	CB-CG-OD2	-6.08	112.83	118.30
3	H	135	ASP	CB-CG-OD2	-6.08	112.83	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	907	ASP	CB-CG-OD1	-6.08	112.83	118.30
3	G	391	ASP	CB-CG-OD1	-6.08	112.83	118.30
3	K	359	ASP	CB-CG-OD1	6.08	123.77	118.30
3	K	639	ASP	CB-CG-OD2	-6.08	112.83	118.30
3	I	58	ASP	CB-CG-OD2	-6.07	112.83	118.30
3	J	135	ASP	CB-CG-OD2	-6.07	112.83	118.30
3	P	391	ASP	CB-CG-OD1	-6.07	112.83	118.30
3	I	807	ASP	CB-CG-OD2	-6.07	112.84	118.30
3	O	196	ASP	CB-CG-OD2	-6.07	112.84	118.30
3	O	907	ASP	CB-CG-OD1	-6.07	112.84	118.30
3	Q	441	ASP	CB-CG-OD2	-6.07	112.84	118.30
3	F	291	ASP	CB-CG-OD2	-6.06	112.84	118.30
3	P	359	ASP	CB-CG-OD1	6.06	123.75	118.30
3	J	101	ASP	CB-CG-OD1	-6.06	112.85	118.30
3	F	135	ASP	CB-CG-OD2	-6.06	112.85	118.30
3	L	196	ASP	CB-CG-OD2	-6.06	112.85	118.30
3	H	639	ASP	CB-CG-OD2	-6.06	112.85	118.30
3	K	58	ASP	CB-CG-OD2	-6.05	112.85	118.30
3	O	441	ASP	CB-CG-OD2	-6.05	112.85	118.30
3	Q	639	ASP	CB-CG-OD2	-6.05	112.85	118.30
3	F	910	ASP	CB-CG-OD2	-6.05	112.86	118.30
3	K	101	ASP	CB-CG-OD1	-6.05	112.86	118.30
3	L	639	ASP	CB-CG-OD2	-6.05	112.86	118.30
3	F	196	ASP	CB-CG-OD2	-6.05	112.86	118.30
3	P	101	ASP	CB-CG-OD1	-6.05	112.86	118.30
3	F	639	ASP	CB-CG-OD2	-6.05	112.86	118.30
3	G	807	ASP	CB-CG-OD2	-6.05	112.86	118.30
3	O	526	ASP	CB-CG-OD1	-6.05	112.86	118.30
3	F	441	ASP	CB-CG-OD2	-6.04	112.86	118.30
3	K	89	ASP	CB-CG-OD2	-6.04	112.86	118.30
3	M	359	ASP	CB-CG-OD1	6.04	123.74	118.30
3	P	526	ASP	CB-CG-OD1	-6.04	112.86	118.30
3	O	639	ASP	CB-CG-OD2	-6.04	112.87	118.30
3	H	441	ASP	CB-CG-OD2	-6.04	112.87	118.30
3	L	396	ASP	CB-CG-OD1	6.04	123.73	118.30
3	H	101	ASP	CB-CG-OD1	-6.03	112.87	118.30
3	J	391	ASP	CB-CG-OD1	-6.03	112.87	118.30
3	L	910	ASP	CB-CG-OD2	-6.03	112.87	118.30
3	O	734	ASP	CB-CG-OD2	-6.03	112.87	118.30
3	O	788	ASP	CB-CG-OD2	-6.03	112.87	118.30
3	I	291	ASP	CB-CG-OD2	-6.03	112.87	118.30
3	L	135	ASP	CB-CG-OD2	-6.03	112.87	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	359	ASP	CB-CG-OD1	6.03	123.72	118.30
3	K	135	ASP	CB-CG-OD2	-6.03	112.88	118.30
3	J	359	ASP	CB-CG-OD1	6.02	123.72	118.30
3	F	806	ASP	CB-CG-OD1	6.02	123.72	118.30
3	M	807	ASP	CB-CG-OD2	-6.02	112.88	118.30
3	J	58	ASP	CB-CG-OD2	-6.02	112.88	118.30
3	L	807	ASP	CB-CG-OD2	-6.02	112.88	118.30
3	N	441	ASP	CB-CG-OD2	-6.02	112.89	118.30
3	I	526	ASP	CB-CG-OD1	-6.01	112.89	118.30
3	L	526	ASP	CB-CG-OD1	-6.01	112.89	118.30
3	F	89	ASP	CB-CG-OD2	-6.01	112.89	118.30
3	H	89	ASP	CB-CG-OD2	-6.01	112.89	118.30
3	P	58	ASP	CB-CG-OD2	-6.01	112.89	118.30
3	M	58	ASP	CB-CG-OD2	-6.01	112.89	118.30
3	L	330	ASP	CB-CG-OD1	-6.01	112.89	118.30
3	I	89	ASP	CB-CG-OD2	-6.01	112.89	118.30
3	L	291	ASP	CB-CG-OD2	-6.01	112.89	118.30
3	M	806	ASP	CB-CG-OD1	6.01	123.71	118.30
3	M	101	ASP	CB-CG-OD1	-6.00	112.89	118.30
3	F	526	ASP	CB-CG-OD1	-6.00	112.90	118.30
3	K	734	ASP	CB-CG-OD2	-6.00	112.90	118.30
3	O	291	ASP	CB-CG-OD2	-6.00	112.90	118.30
3	Q	734	ASP	CB-CG-OD2	-6.00	112.90	118.30
3	F	856	ASP	CB-CG-OD1	-6.00	112.90	118.30
3	K	910	ASP	CB-CG-OD2	-6.00	112.90	118.30
3	L	907	ASP	CB-CG-OD1	-6.00	112.90	118.30
3	N	89	ASP	CB-CG-OD2	-6.00	112.90	118.30
3	G	526	ASP	CB-CG-OD1	-6.00	112.90	118.30
3	Q	599	ASP	CB-CG-OD1	6.00	123.70	118.30
3	L	391	ASP	CB-CG-OD1	-6.00	112.90	118.30
3	O	856	ASP	CB-CG-OD1	-6.00	112.90	118.30
3	I	330	ASP	CB-CG-OD1	-6.00	112.91	118.30
3	G	58	ASP	CB-CG-OD2	-5.99	112.91	118.30
3	I	734	ASP	CB-CG-OD2	-5.99	112.91	118.30
3	I	856	ASP	CB-CG-OD1	-5.99	112.91	118.30
3	J	526	ASP	CB-CG-OD1	-5.99	112.91	118.30
3	N	734	ASP	CB-CG-OD2	-5.99	112.91	118.30
3	O	806	ASP	CB-CG-OD1	5.99	123.69	118.30
3	N	910	ASP	CB-CG-OD2	-5.99	112.91	118.30
3	O	89	ASP	CB-CG-OD2	-5.99	112.91	118.30
3	G	806	ASP	CB-CG-OD1	5.98	123.69	118.30
3	J	806	ASP	CB-CG-OD1	5.98	123.69	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	O	135	ASP	CB-CG-OD2	-5.98	112.92	118.30
3	O	391	ASP	CB-CG-OD1	-5.98	112.92	118.30
3	F	391	ASP	CB-CG-OD1	-5.98	112.92	118.30
3	I	396	ASP	CB-CG-OD1	5.98	123.68	118.30
3	K	291	ASP	CB-CG-OD2	-5.98	112.92	118.30
3	L	806	ASP	CB-CG-OD1	5.98	123.68	118.30
3	O	396	ASP	CB-CG-OD1	5.98	123.68	118.30
3	I	910	ASP	CB-CG-OD2	-5.98	112.92	118.30
3	G	291	ASP	CB-CG-OD2	-5.98	112.92	118.30
3	I	391	ASP	CB-CG-OD1	-5.98	112.92	118.30
3	L	856	ASP	CB-CG-OD1	-5.98	112.92	118.30
3	I	806	ASP	CB-CG-OD1	5.97	123.68	118.30
3	N	599	ASP	CB-CG-OD1	5.97	123.68	118.30
3	M	639	ASP	CB-CG-OD2	-5.97	112.93	118.30
3	J	639	ASP	CB-CG-OD2	-5.97	112.93	118.30
3	K	599	ASP	CB-CG-OD1	5.97	123.67	118.30
3	M	526	ASP	CB-CG-OD1	-5.97	112.93	118.30
3	H	734	ASP	CB-CG-OD2	-5.97	112.93	118.30
3	O	330	ASP	CB-CG-OD1	-5.97	112.93	118.30
3	P	291	ASP	CB-CG-OD2	-5.97	112.93	118.30
3	Q	89	ASP	CB-CG-OD2	-5.97	112.93	118.30
3	G	289	ASP	CB-CG-OD1	5.96	123.67	118.30
3	H	910	ASP	CB-CG-OD2	-5.96	112.93	118.30
3	Q	610	ASP	CB-CG-OD1	5.96	123.67	118.30
3	I	907	ASP	CB-CG-OD1	-5.96	112.94	118.30
3	F	610	ASP	CB-CG-OD1	5.95	123.66	118.30
3	J	289	ASP	CB-CG-OD1	5.95	123.66	118.30
3	H	599	ASP	CB-CG-OD1	5.95	123.66	118.30
3	G	71	ASP	CB-CG-OD2	-5.95	112.94	118.30
3	F	330	ASP	CB-CG-OD1	-5.95	112.95	118.30
3	J	291	ASP	CB-CG-OD2	-5.95	112.95	118.30
3	O	910	ASP	CB-CG-OD2	-5.95	112.95	118.30
3	P	289	ASP	CB-CG-OD1	5.95	123.65	118.30
3	K	866	ASP	CB-CG-OD1	-5.95	112.95	118.30
3	M	289	ASP	CB-CG-OD1	5.95	123.65	118.30
3	G	639	ASP	CB-CG-OD2	-5.94	112.95	118.30
3	L	89	ASP	CB-CG-OD2	-5.94	112.95	118.30
3	K	610	ASP	CB-CG-OD1	5.94	123.65	118.30
3	P	639	ASP	CB-CG-OD2	-5.94	112.95	118.30
3	F	396	ASP	CB-CG-OD1	5.94	123.64	118.30
3	N	291	ASP	CB-CG-OD2	-5.94	112.96	118.30
3	Q	910	ASP	CB-CG-OD2	-5.94	112.96	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	610	ASP	CB-CG-OD1	5.93	123.64	118.30
3	M	291	ASP	CB-CG-OD2	-5.93	112.96	118.30
3	L	94	ASP	CB-CG-OD2	-5.93	112.97	118.30
3	F	94	ASP	CB-CG-OD2	-5.92	112.97	118.30
3	M	610	ASP	CB-CG-OD1	5.92	123.63	118.30
3	Q	291	ASP	CB-CG-OD2	-5.92	112.97	118.30
3	M	812	ASP	CB-CG-OD2	-5.92	112.97	118.30
3	O	610	ASP	CB-CG-OD1	5.92	123.63	118.30
3	P	806	ASP	CB-CG-OD1	5.92	123.63	118.30
3	G	407	ASP	CB-CG-OD1	-5.92	112.97	118.30
3	I	94	ASP	CB-CG-OD2	-5.92	112.97	118.30
3	J	330	ASP	CB-CG-OD1	-5.92	112.97	118.30
3	G	330	ASP	CB-CG-OD1	-5.92	112.97	118.30
3	N	610	ASP	CB-CG-OD1	5.92	123.62	118.30
3	O	923	ASP	CB-CG-OD1	-5.92	112.97	118.30
3	J	734	ASP	CB-CG-OD2	-5.91	112.98	118.30
3	O	94	ASP	CB-CG-OD2	-5.91	112.98	118.30
3	J	610	ASP	CB-CG-OD1	5.91	123.62	118.30
3	M	74	ASP	CB-CG-OD2	-5.91	112.98	118.30
3	H	291	ASP	CB-CG-OD2	-5.91	112.98	118.30
3	Q	866	ASP	CB-CG-OD1	-5.91	112.98	118.30
3	P	610	ASP	CB-CG-OD1	5.91	123.62	118.30
3	H	610	ASP	CB-CG-OD1	5.91	123.61	118.30
3	M	89	ASP	CB-CG-OD2	-5.91	112.98	118.30
3	N	866	ASP	CB-CG-OD1	-5.90	112.99	118.30
3	G	374	ASP	CB-CG-OD1	-5.90	112.99	118.30
3	K	74	ASP	CB-CG-OD2	-5.90	112.99	118.30
3	L	866	ASP	CB-CG-OD1	-5.90	112.99	118.30
3	P	74	ASP	CB-CG-OD2	-5.90	112.99	118.30
3	P	734	ASP	CB-CG-OD2	-5.90	112.99	118.30
3	F	866	ASP	CB-CG-OD1	-5.90	112.99	118.30
3	I	610	ASP	CB-CG-OD1	5.90	123.61	118.30
3	O	447	ASP	CB-CG-OD2	-5.90	112.99	118.30
3	Q	196	ASP	CB-CG-OD2	-5.90	112.99	118.30
3	F	447	ASP	CB-CG-OD2	-5.89	113.00	118.30
3	G	610	ASP	CB-CG-OD1	5.89	123.61	118.30
3	I	923	ASP	CB-CG-OD1	-5.89	113.00	118.30
3	L	812	ASP	CB-CG-OD2	-5.89	113.00	118.30
3	N	196	ASP	CB-CG-OD2	-5.89	113.00	118.30
3	M	396	ASP	CB-CG-OD1	5.89	123.60	118.30
3	G	734	ASP	CB-CG-OD2	-5.89	113.00	118.30
3	P	89	ASP	CB-CG-OD2	-5.89	113.00	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	P	910	ASP	CB-CG-OD2	-5.89	113.00	118.30
3	K	330	ASP	CB-CG-OD1	-5.89	113.00	118.30
3	M	330	ASP	CB-CG-OD1	-5.89	113.00	118.30
3	Q	330	ASP	CB-CG-OD1	-5.89	113.00	118.30
3	L	447	ASP	CB-CG-OD2	-5.89	113.00	118.30
3	J	89	ASP	CB-CG-OD2	-5.89	113.00	118.30
3	N	74	ASP	CB-CG-OD2	-5.89	113.00	118.30
3	N	330	ASP	CB-CG-OD1	-5.88	113.00	118.30
3	J	374	ASP	CB-CG-OD1	-5.88	113.00	118.30
3	G	74	ASP	CB-CG-OD2	-5.88	113.01	118.30
3	J	71	ASP	CB-CG-OD2	-5.88	113.01	118.30
3	J	910	ASP	CB-CG-OD2	-5.88	113.01	118.30
3	L	71	ASP	CB-CG-OD2	-5.88	113.01	118.30
3	M	71	ASP	CB-CG-OD2	-5.88	113.01	118.30
3	P	407	ASP	CB-CG-OD1	-5.88	113.01	118.30
3	I	866	ASP	CB-CG-OD1	-5.88	113.01	118.30
3	Q	407	ASP	CB-CG-OD1	-5.88	113.01	118.30
3	H	866	ASP	CB-CG-OD1	-5.88	113.01	118.30
3	J	74	ASP	CB-CG-OD2	-5.88	113.01	118.30
3	K	407	ASP	CB-CG-OD1	-5.88	113.01	118.30
3	I	812	ASP	CB-CG-OD2	-5.87	113.01	118.30
3	H	330	ASP	CB-CG-OD1	-5.87	113.02	118.30
3	J	812	ASP	CB-CG-OD2	-5.87	113.02	118.30
3	L	923	ASP	CB-CG-OD1	-5.87	113.02	118.30
3	M	734	ASP	CB-CG-OD2	-5.87	113.02	118.30
3	H	396	ASP	CB-CG-OD1	5.87	123.58	118.30
3	P	330	ASP	CB-CG-OD1	-5.87	113.02	118.30
3	G	89	ASP	CB-CG-OD2	-5.86	113.02	118.30
3	P	71	ASP	CB-CG-OD2	-5.86	113.02	118.30
3	Q	74	ASP	CB-CG-OD2	-5.86	113.02	118.30
3	G	910	ASP	CB-CG-OD2	-5.86	113.02	118.30
3	F	812	ASP	CB-CG-OD2	-5.86	113.03	118.30
3	J	396	ASP	CB-CG-OD1	5.86	123.57	118.30
3	M	374	ASP	CB-CG-OD1	-5.86	113.03	118.30
3	G	812	ASP	CB-CG-OD2	-5.85	113.03	118.30
3	I	71	ASP	CB-CG-OD2	-5.85	113.03	118.30
3	I	447	ASP	CB-CG-OD2	-5.85	113.03	118.30
3	P	901	ASP	CB-CG-OD1	5.85	123.57	118.30
3	F	71	ASP	CB-CG-OD2	-5.85	113.03	118.30
3	H	74	ASP	CB-CG-OD2	-5.85	113.03	118.30
3	H	196	ASP	CB-CG-OD2	-5.85	113.03	118.30
3	H	407	ASP	CB-CG-OD1	-5.85	113.04	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	910	ASP	CB-CG-OD2	-5.85	113.03	118.30
3	J	407	ASP	CB-CG-OD1	-5.85	113.04	118.30
3	O	866	ASP	CB-CG-OD1	-5.85	113.04	118.30
3	K	196	ASP	CB-CG-OD2	-5.84	113.04	118.30
3	M	196	ASP	CB-CG-OD2	-5.84	113.04	118.30
3	P	812	ASP	CB-CG-OD2	-5.84	113.04	118.30
3	F	923	ASP	CB-CG-OD1	-5.84	113.04	118.30
3	P	599	ASP	CB-CG-OD1	5.84	123.56	118.30
3	L	407	ASP	CB-CG-OD1	-5.84	113.04	118.30
3	O	407	ASP	CB-CG-OD1	-5.84	113.04	118.30
3	P	396	ASP	CB-CG-OD1	5.84	123.56	118.30
3	J	901	ASP	CB-CG-OD1	5.84	123.55	118.30
3	M	901	ASP	CB-CG-OD1	5.84	123.55	118.30
3	I	407	ASP	CB-CG-OD1	-5.83	113.05	118.30
3	O	71	ASP	CB-CG-OD2	-5.83	113.05	118.30
3	G	396	ASP	CB-CG-OD1	5.83	123.55	118.30
3	P	866	ASP	CB-CG-OD1	-5.83	113.05	118.30
3	O	812	ASP	CB-CG-OD2	-5.83	113.05	118.30
3	G	901	ASP	CB-CG-OD1	5.82	123.54	118.30
3	K	94	ASP	CB-CG-OD2	-5.82	113.06	118.30
3	H	526	ASP	CB-CG-OD2	5.82	123.53	118.30
3	K	396	ASP	CB-CG-OD1	5.81	123.53	118.30
3	N	526	ASP	CB-CG-OD2	5.81	123.53	118.30
3	P	374	ASP	CB-CG-OD1	-5.81	113.07	118.30
3	J	196	ASP	CB-CG-OD2	-5.81	113.07	118.30
3	M	407	ASP	CB-CG-OD1	-5.81	113.07	118.30
3	Q	94	ASP	CB-CG-OD2	-5.81	113.07	118.30
3	L	74	ASP	CB-CG-OD2	-5.81	113.08	118.30
3	P	196	ASP	CB-CG-OD2	-5.81	113.07	118.30
3	F	407	ASP	CB-CG-OD1	-5.80	113.08	118.30
3	O	374	ASP	CB-CG-OD1	-5.80	113.08	118.30
3	G	599	ASP	CB-CG-OD1	5.80	123.52	118.30
3	J	923	ASP	CB-CG-OD1	-5.80	113.08	118.30
3	N	94	ASP	CB-CG-OD2	-5.80	113.08	118.30
3	N	407	ASP	CB-CG-OD1	-5.79	113.08	118.30
3	N	396	ASP	CB-CG-OD1	5.79	123.51	118.30
3	F	901	ASP	CB-CG-OD1	5.79	123.51	118.30
3	H	71	ASP	CB-CG-OD2	-5.79	113.09	118.30
3	M	923	ASP	CB-CG-OD1	-5.79	113.09	118.30
3	N	71	ASP	CB-CG-OD2	-5.79	113.09	118.30
3	F	374	ASP	CB-CG-OD1	-5.78	113.09	118.30
3	I	289	ASP	CB-CG-OD1	5.78	123.50	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	G	923	ASP	CB-CG-OD1	-5.78	113.10	118.30
3	N	812	ASP	CB-CG-OD2	-5.78	113.10	118.30
3	M	599	ASP	CB-CG-OD1	5.78	123.50	118.30
3	M	866	ASP	CB-CG-OD1	-5.78	113.10	118.30
3	K	501	ASP	CB-CG-OD1	5.78	123.50	118.30
3	K	526	ASP	CB-CG-OD2	5.78	123.50	118.30
3	N	374	ASP	CB-CG-OD1	-5.78	113.10	118.30
3	Q	71	ASP	CB-CG-OD2	-5.78	113.10	118.30
3	Q	526	ASP	CB-CG-OD2	5.78	123.50	118.30
3	G	196	ASP	CB-CG-OD2	-5.77	113.10	118.30
3	J	599	ASP	CB-CG-OD1	5.77	123.50	118.30
3	O	74	ASP	CB-CG-OD2	-5.77	113.11	118.30
3	Q	725	ASP	CB-CG-OD1	5.77	123.50	118.30
3	Q	529	ASP	CB-CG-OD1	-5.77	113.11	118.30
3	H	94	ASP	CB-CG-OD2	-5.77	113.11	118.30
3	N	501	ASP	CB-CG-OD1	5.77	123.49	118.30
3	H	812	ASP	CB-CG-OD2	-5.76	113.11	118.30
3	H	374	ASP	CB-CG-OD1	-5.76	113.11	118.30
3	P	923	ASP	CB-CG-OD1	-5.76	113.11	118.30
3	I	196	ASP	CB-CG-OD1	5.76	123.49	118.30
3	I	374	ASP	CB-CG-OD1	-5.76	113.11	118.30
3	K	374	ASP	CB-CG-OD1	-5.76	113.11	118.30
3	L	514	ASP	CB-CG-OD2	-5.76	113.11	118.30
3	O	599	ASP	CB-CG-OD1	5.76	123.48	118.30
3	G	94	ASP	CB-CG-OD2	-5.76	113.12	118.30
3	G	447	ASP	CB-CG-OD2	-5.76	113.12	118.30
3	G	866	ASP	CB-CG-OD1	-5.76	113.12	118.30
3	H	501	ASP	CB-CG-OD1	5.76	123.48	118.30
3	J	866	ASP	CB-CG-OD1	-5.76	113.12	118.30
3	M	447	ASP	CB-CG-OD2	-5.76	113.12	118.30
3	Q	289	ASP	CB-CG-OD1	5.76	123.48	118.30
3	L	289	ASP	CB-CG-OD1	5.75	123.48	118.30
3	I	514	ASP	CB-CG-OD2	-5.75	113.12	118.30
3	K	71	ASP	CB-CG-OD2	-5.75	113.12	118.30
3	K	901	ASP	CB-CG-OD1	5.75	123.48	118.30
3	I	599	ASP	CB-CG-OD1	5.75	123.47	118.30
3	L	374	ASP	CB-CG-OD1	-5.75	113.13	118.30
3	Q	374	ASP	CB-CG-OD1	-5.75	113.13	118.30
3	Q	501	ASP	CB-CG-OD1	5.75	123.47	118.30
3	F	94	ASP	CB-CG-OD1	5.74	123.47	118.30
3	N	529	ASP	CB-CG-OD1	-5.74	113.13	118.30
3	O	94	ASP	CB-CG-OD1	5.74	123.47	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	O	514	ASP	CB-CG-OD2	-5.74	113.13	118.30
3	L	599	ASP	CB-CG-OD1	5.74	123.47	118.30
3	M	514	ASP	CB-CG-OD2	-5.74	113.13	118.30
3	F	599	ASP	CB-CG-OD1	5.74	123.47	118.30
3	L	901	ASP	CB-CG-OD1	5.74	123.47	118.30
3	P	94	ASP	CB-CG-OD2	-5.74	113.13	118.30
3	H	901	ASP	CB-CG-OD1	5.74	123.47	118.30
3	Q	396	ASP	CB-CG-OD1	5.74	123.47	118.30
3	I	330	ASP	CB-CG-OD2	5.74	123.46	118.30
3	M	94	ASP	CB-CG-OD2	-5.73	113.14	118.30
3	F	74	ASP	CB-CG-OD2	-5.73	113.14	118.30
3	K	289	ASP	CB-CG-OD1	5.73	123.46	118.30
3	I	74	ASP	CB-CG-OD2	-5.73	113.14	118.30
3	F	644	ASP	CB-CG-OD1	5.73	123.45	118.30
3	L	94	ASP	CB-CG-OD1	5.72	123.45	118.30
3	N	725	ASP	CB-CG-OD1	5.72	123.45	118.30
3	I	94	ASP	CB-CG-OD1	5.72	123.45	118.30
3	P	447	ASP	CB-CG-OD2	-5.72	113.15	118.30
3	H	725	ASP	CB-CG-OD1	5.72	123.45	118.30
3	L	196	ASP	CB-CG-OD1	5.72	123.45	118.30
3	O	289	ASP	CB-CG-OD1	5.72	123.45	118.30
3	N	289	ASP	CB-CG-OD1	5.72	123.45	118.30
3	F	196	ASP	CB-CG-OD1	5.72	123.45	118.30
3	K	725	ASP	CB-CG-OD1	5.72	123.45	118.30
3	F	289	ASP	CB-CG-OD1	5.72	123.44	118.30
3	H	529	ASP	CB-CG-OD1	-5.72	113.16	118.30
3	N	901	ASP	CB-CG-OD1	5.72	123.45	118.30
3	H	923	ASP	CB-CG-OD1	-5.71	113.16	118.30
3	J	447	ASP	CB-CG-OD2	-5.71	113.16	118.30
3	P	514	ASP	CB-CG-OD2	-5.71	113.16	118.30
3	I	901	ASP	CB-CG-OD1	5.71	123.44	118.30
3	K	529	ASP	CB-CG-OD1	-5.71	113.16	118.30
3	H	289	ASP	CB-CG-OD1	5.71	123.44	118.30
3	O	901	ASP	CB-CG-OD1	5.71	123.44	118.30
3	Q	923	ASP	CB-CG-OD1	-5.71	113.16	118.30
3	K	923	ASP	CB-CG-OD1	-5.70	113.17	118.30
3	N	923	ASP	CB-CG-OD1	-5.70	113.17	118.30
3	F	514	ASP	CB-CG-OD2	-5.70	113.17	118.30
3	L	495	ASP	CB-CG-OD1	5.70	123.43	118.30
3	G	330	ASP	CB-CG-OD2	5.70	123.43	118.30
3	K	812	ASP	CB-CG-OD2	-5.70	113.17	118.30
3	Q	901	ASP	CB-CG-OD1	5.70	123.43	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	P	529	ASP	CB-CG-OD1	-5.69	113.17	118.30
3	J	330	ASP	CB-CG-OD2	5.69	123.42	118.30
3	F	807	ASP	CB-CG-OD1	5.69	123.42	118.30
3	H	447	ASP	CB-CG-OD2	-5.69	113.18	118.30
3	O	644	ASP	CB-CG-OD1	5.69	123.42	118.30
3	F	495	ASP	CB-CG-OD1	5.69	123.42	118.30
3	Q	812	ASP	CB-CG-OD2	-5.69	113.18	118.30
3	I	644	ASP	CB-CG-OD1	5.68	123.42	118.30
3	L	71	ASP	CB-CG-OD1	5.68	123.42	118.30
3	O	495	ASP	CB-CG-OD1	5.68	123.42	118.30
3	O	196	ASP	CB-CG-OD1	5.68	123.41	118.30
3	M	495	ASP	CB-CG-OD1	5.68	123.41	118.30
3	G	514	ASP	CB-CG-OD2	-5.68	113.19	118.30
3	P	330	ASP	CB-CG-OD2	5.68	123.41	118.30
3	I	495	ASP	CB-CG-OD1	5.68	123.41	118.30
3	P	495	ASP	CB-CG-OD1	5.68	123.41	118.30
3	J	514	ASP	CB-CG-OD2	-5.67	113.19	118.30
3	O	526	ASP	CB-CG-OD2	5.67	123.41	118.30
3	N	94	ASP	CB-CG-OD1	5.67	123.41	118.30
3	J	94	ASP	CB-CG-OD2	-5.67	113.19	118.30
3	M	330	ASP	CB-CG-OD2	5.67	123.40	118.30
3	F	526	ASP	CB-CG-OD2	5.67	123.40	118.30
3	G	529	ASP	CB-CG-OD1	-5.67	113.20	118.30
3	N	447	ASP	CB-CG-OD2	-5.67	113.20	118.30
3	O	71	ASP	CB-CG-OD1	5.67	123.40	118.30
3	G	495	ASP	CB-CG-OD1	5.66	123.40	118.30
3	Q	94	ASP	CB-CG-OD1	5.66	123.39	118.30
3	M	135	ASP	CB-CG-OD1	5.66	123.39	118.30
3	H	495	ASP	CB-CG-OD1	5.66	123.39	118.30
3	M	529	ASP	CB-CG-OD1	-5.66	113.21	118.30
3	N	495	ASP	CB-CG-OD1	5.66	123.39	118.30
3	J	923	ASP	CB-CG-OD2	5.65	123.39	118.30
3	K	94	ASP	CB-CG-OD1	5.65	123.39	118.30
3	I	526	ASP	CB-CG-OD2	5.65	123.39	118.30
3	J	529	ASP	CB-CG-OD1	-5.65	113.21	118.30
3	K	447	ASP	CB-CG-OD2	-5.65	113.21	118.30
3	L	330	ASP	CB-CG-OD2	5.65	123.39	118.30
3	L	644	ASP	CB-CG-OD1	5.65	123.39	118.30
3	G	135	ASP	CB-CG-OD1	5.65	123.38	118.30
3	N	330	ASP	CB-CG-OD2	5.65	123.38	118.30
3	O	330	ASP	CB-CG-OD2	5.64	123.38	118.30
3	G	94	ASP	CB-CG-OD1	5.64	123.38	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	330	ASP	CB-CG-OD2	5.64	123.37	118.30
3	M	94	ASP	CB-CG-OD1	5.64	123.37	118.30
3	N	812	ASP	CB-CG-OD1	5.64	123.37	118.30
3	P	526	ASP	CB-CG-OD2	5.64	123.37	118.30
3	H	94	ASP	CB-CG-OD1	5.63	123.37	118.30
3	J	495	ASP	CB-CG-OD1	5.63	123.37	118.30
3	J	526	ASP	CB-CG-OD2	5.63	123.37	118.30
3	K	196	ASP	CB-CG-OD1	5.63	123.37	118.30
3	L	526	ASP	CB-CG-OD2	5.63	123.37	118.30
3	N	807	ASP	CB-CG-OD1	5.63	123.36	118.30
3	M	923	ASP	CB-CG-OD2	5.63	123.36	118.30
3	K	495	ASP	CB-CG-OD1	5.62	123.36	118.30
3	M	812	ASP	CB-CG-OD1	5.62	123.36	118.30
3	F	71	ASP	CB-CG-OD1	5.62	123.36	118.30
3	I	807	ASP	CB-CG-OD1	5.62	123.36	118.30
3	H	812	ASP	CB-CG-OD1	5.62	123.36	118.30
3	I	71	ASP	CB-CG-OD1	5.62	123.36	118.30
3	O	725	ASP	CB-CG-OD1	5.62	123.36	118.30
3	O	923	ASP	CB-CG-OD2	5.62	123.36	118.30
3	P	135	ASP	CB-CG-OD1	5.62	123.35	118.30
3	Q	495	ASP	CB-CG-OD1	5.62	123.35	118.30
3	F	725	ASP	CB-CG-OD1	5.61	123.35	118.30
3	J	644	ASP	CB-CG-OD1	5.61	123.35	118.30
3	Q	196	ASP	CB-CG-OD1	5.61	123.35	118.30
3	Q	447	ASP	CB-CG-OD2	-5.61	113.25	118.30
3	P	94	ASP	CB-CG-OD1	5.61	123.35	118.30
3	P	923	ASP	CB-CG-OD2	5.61	123.35	118.30
3	H	807	ASP	CB-CG-OD1	5.60	123.34	118.30
3	P	644	ASP	CB-CG-OD1	5.60	123.34	118.30
3	Q	807	ASP	CB-CG-OD1	5.60	123.34	118.30
3	K	812	ASP	CB-CG-OD1	5.60	123.34	118.30
3	O	807	ASP	CB-CG-OD1	5.60	123.34	118.30
3	Q	856	ASP	CB-CG-OD2	5.59	123.34	118.30
3	L	812	ASP	CB-CG-OD1	5.59	123.33	118.30
3	G	526	ASP	CB-CG-OD2	5.59	123.33	118.30
3	H	196	ASP	CB-CG-OD1	5.59	123.33	118.30
3	Q	514	ASP	CB-CG-OD2	-5.59	113.27	118.30
3	K	330	ASP	CB-CG-OD2	5.59	123.33	118.30
3	J	725	ASP	CB-CG-OD1	5.59	123.33	118.30
3	M	526	ASP	CB-CG-OD2	5.59	123.33	118.30
3	O	587	ASP	CB-CG-OD2	-5.58	113.27	118.30
3	I	812	ASP	CB-CG-OD1	5.58	123.33	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	94	ASP	CB-CG-OD1	5.58	123.33	118.30
3	L	807	ASP	CB-CG-OD1	5.58	123.33	118.30
3	N	587	ASP	CB-CG-OD2	-5.58	113.28	118.30
3	J	135	ASP	CB-CG-OD1	5.57	123.32	118.30
3	Q	330	ASP	CB-CG-OD2	5.57	123.32	118.30
3	G	725	ASP	CB-CG-OD1	5.57	123.31	118.30
3	I	587	ASP	CB-CG-OD2	-5.57	113.29	118.30
3	K	587	ASP	CB-CG-OD2	-5.57	113.29	118.30
3	L	725	ASP	CB-CG-OD1	5.57	123.31	118.30
3	H	856	ASP	CB-CG-OD2	5.57	123.31	118.30
3	K	856	ASP	CB-CG-OD2	5.56	123.31	118.30
3	F	812	ASP	CB-CG-OD1	5.56	123.31	118.30
3	F	923	ASP	CB-CG-OD2	5.56	123.31	118.30
3	G	644	ASP	CB-CG-OD1	5.56	123.31	118.30
3	P	482	ASP	CB-CG-OD1	5.56	123.31	118.30
3	K	807	ASP	CB-CG-OD1	5.56	123.31	118.30
3	Q	587	ASP	CB-CG-OD2	-5.56	113.30	118.30
3	Q	812	ASP	CB-CG-OD1	5.56	123.30	118.30
3	I	725	ASP	CB-CG-OD1	5.56	123.30	118.30
3	J	482	ASP	CB-CG-OD1	5.56	123.30	118.30
3	G	923	ASP	CB-CG-OD2	5.55	123.30	118.30
3	I	923	ASP	CB-CG-OD2	5.55	123.30	118.30
3	I	135	ASP	CB-CG-OD1	5.55	123.30	118.30
3	G	71	ASP	CB-CG-OD1	5.55	123.29	118.30
3	O	812	ASP	CB-CG-OD1	5.55	123.30	118.30
3	P	725	ASP	CB-CG-OD1	5.55	123.29	118.30
3	F	587	ASP	CB-CG-OD2	-5.54	113.31	118.30
3	Q	135	ASP	CB-CG-OD1	5.54	123.29	118.30
3	H	330	ASP	CB-CG-OD2	5.54	123.29	118.30
3	J	603	ASP	CB-CG-OD2	-5.54	113.32	118.30
3	P	196	ASP	CB-CG-OD1	5.54	123.28	118.30
3	J	812	ASP	CB-CG-OD1	5.53	123.28	118.30
3	O	135	ASP	CB-CG-OD1	5.53	123.28	118.30
3	N	196	ASP	CB-CG-OD1	5.53	123.28	118.30
3	N	514	ASP	CB-CG-OD2	-5.53	113.32	118.30
3	H	482	ASP	CB-CG-OD1	5.53	123.28	118.30
3	M	644	ASP	CB-CG-OD1	5.53	123.27	118.30
3	L	587	ASP	CB-CG-OD2	-5.52	113.33	118.30
3	H	514	ASP	CB-CG-OD2	-5.52	113.33	118.30
3	H	644	ASP	CB-CG-OD1	5.52	123.27	118.30
3	J	71	ASP	CB-CG-OD1	5.52	123.27	118.30
3	J	196	ASP	CB-CG-OD1	5.52	123.27	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	725	ASP	CB-CG-OD1	5.52	123.27	118.30
3	L	923	ASP	CB-CG-OD2	5.52	123.27	118.30
3	N	856	ASP	CB-CG-OD2	5.52	123.27	118.30
3	F	135	ASP	CB-CG-OD1	5.52	123.27	118.30
3	L	135	ASP	CB-CG-OD1	5.52	123.26	118.30
3	M	482	ASP	CB-CG-OD1	5.51	123.26	118.30
3	H	587	ASP	CB-CG-OD2	-5.51	113.34	118.30
3	K	514	ASP	CB-CG-OD2	-5.51	113.34	118.30
3	M	196	ASP	CB-CG-OD1	5.51	123.26	118.30
3	N	644	ASP	CB-CG-OD1	5.51	123.26	118.30
3	P	603	ASP	CB-CG-OD2	-5.51	113.34	118.30
3	P	856	ASP	CB-CG-OD2	5.51	123.26	118.30
3	H	135	ASP	CB-CG-OD1	5.50	123.25	118.30
3	M	603	ASP	CB-CG-OD2	-5.50	113.34	118.30
3	N	135	ASP	CB-CG-OD1	5.50	123.25	118.30
3	P	812	ASP	CB-CG-OD1	5.50	123.25	118.30
3	K	644	ASP	CB-CG-OD1	5.50	123.25	118.30
3	O	482	ASP	CB-CG-OD1	5.50	123.25	118.30
3	K	135	ASP	CB-CG-OD1	5.49	123.24	118.30
3	N	71	ASP	CB-CG-OD1	5.49	123.24	118.30
3	Q	644	ASP	CB-CG-OD1	5.49	123.24	118.30
3	G	603	ASP	CB-CG-OD2	-5.49	113.36	118.30
3	G	812	ASP	CB-CG-OD1	5.49	123.24	118.30
3	K	923	ASP	CB-CG-OD2	5.49	123.24	118.30
3	L	482	ASP	CB-CG-OD1	5.49	123.24	118.30
3	P	71	ASP	CB-CG-OD1	5.49	123.24	118.30
3	Q	482	ASP	CB-CG-OD1	5.49	123.24	118.30
3	N	482	ASP	CB-CG-OD1	5.49	123.24	118.30
3	O	291	ASP	CB-CG-OD1	5.49	123.24	118.30
3	H	71	ASP	CB-CG-OD1	5.48	123.23	118.30
3	L	291	ASP	CB-CG-OD1	5.48	123.23	118.30
3	M	71	ASP	CB-CG-OD1	5.48	123.23	118.30
3	G	788	ASP	CB-CG-OD1	5.48	123.23	118.30
3	K	482	ASP	CB-CG-OD1	5.47	123.22	118.30
3	Q	71	ASP	CB-CG-OD1	5.47	123.23	118.30
3	G	482	ASP	CB-CG-OD1	5.47	123.22	118.30
3	G	856	ASP	CB-CG-OD2	5.47	123.22	118.30
3	I	291	ASP	CB-CG-OD1	5.47	123.22	118.30
3	K	71	ASP	CB-CG-OD1	5.47	123.22	118.30
3	O	529	ASP	CB-CG-OD1	-5.47	113.38	118.30
3	H	603	ASP	CB-CG-OD1	5.46	123.22	118.30
3	I	501	ASP	CB-CG-OD1	5.46	123.22	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	291	ASP	CB-CG-OD1	5.46	123.22	118.30
3	G	196	ASP	CB-CG-OD1	5.46	123.22	118.30
3	N	603	ASP	CB-CG-OD1	5.46	123.22	118.30
3	P	807	ASP	CB-CG-OD1	5.46	123.22	118.30
3	I	482	ASP	CB-CG-OD1	5.46	123.21	118.30
3	I	856	ASP	CB-CG-OD2	5.46	123.21	118.30
3	Q	636	ASP	CB-CG-OD1	5.46	123.21	118.30
3	K	603	ASP	CB-CG-OD1	5.46	123.21	118.30
3	J	856	ASP	CB-CG-OD2	5.45	123.21	118.30
3	H	788	ASP	CB-CG-OD1	5.45	123.21	118.30
3	M	291	ASP	CB-CG-OD1	5.45	123.21	118.30
3	L	501	ASP	CB-CG-OD1	5.45	123.20	118.30
3	M	856	ASP	CB-CG-OD2	5.45	123.20	118.30
3	O	910	ASP	CB-CG-OD1	5.45	123.20	118.30
3	F	501	ASP	CB-CG-OD1	5.45	123.20	118.30
3	F	910	ASP	CB-CG-OD1	5.45	123.20	118.30
3	H	923	ASP	CB-CG-OD2	5.44	123.20	118.30
3	F	529	ASP	CB-CG-OD1	-5.44	113.40	118.30
3	I	529	ASP	CB-CG-OD1	-5.44	113.40	118.30
3	F	482	ASP	CB-CG-OD1	5.44	123.20	118.30
3	J	788	ASP	CB-CG-OD1	5.44	123.20	118.30
3	M	788	ASP	CB-CG-OD1	5.44	123.20	118.30
3	P	291	ASP	CB-CG-OD1	5.44	123.20	118.30
3	G	501	ASP	CB-CG-OD1	5.44	123.19	118.30
3	P	587	ASP	CB-CG-OD2	-5.44	113.41	118.30
3	N	923	ASP	CB-CG-OD2	5.44	123.19	118.30
3	O	856	ASP	CB-CG-OD2	5.44	123.19	118.30
3	N	910	ASP	CB-CG-OD1	5.44	123.19	118.30
3	L	910	ASP	CB-CG-OD1	5.43	123.19	118.30
3	M	807	ASP	CB-CG-OD1	5.43	123.19	118.30
3	O	501	ASP	CB-CG-OD1	5.43	123.19	118.30
3	G	291	ASP	CB-CG-OD1	5.43	123.19	118.30
3	G	807	ASP	CB-CG-OD1	5.43	123.19	118.30
3	J	807	ASP	CB-CG-OD1	5.43	123.19	118.30
3	N	74	ASP	CB-CG-OD1	5.43	123.19	118.30
3	Q	923	ASP	CB-CG-OD2	5.43	123.19	118.30
3	I	910	ASP	CB-CG-OD1	5.43	123.18	118.30
3	J	291	ASP	CB-CG-OD1	5.43	123.18	118.30
3	K	788	ASP	CB-CG-OD1	5.43	123.18	118.30
3	L	529	ASP	CB-CG-OD1	-5.43	113.42	118.30
3	Q	788	ASP	CB-CG-OD1	5.42	123.18	118.30
3	H	907	ASP	CB-CG-OD2	5.42	123.18	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Q	378	ASP	CB-CG-OD1	5.42	123.18	118.30
3	Q	603	ASP	CB-CG-OD1	5.42	123.18	118.30
3	Q	910	ASP	CB-CG-OD1	5.42	123.18	118.30
3	K	636	ASP	CB-CG-OD1	5.42	123.18	118.30
3	N	636	ASP	CB-CG-OD1	5.42	123.18	118.30
3	M	74	ASP	CB-CG-OD1	5.42	123.17	118.30
3	P	788	ASP	CB-CG-OD1	5.42	123.17	118.30
3	K	378	ASP	CB-CG-OD1	5.41	123.17	118.30
3	K	907	ASP	CB-CG-OD2	5.41	123.17	118.30
3	M	501	ASP	CB-CG-OD1	5.41	123.17	118.30
3	Q	907	ASP	CB-CG-OD2	5.41	123.17	118.30
3	M	587	ASP	CB-CG-OD2	-5.41	113.43	118.30
3	Q	74	ASP	CB-CG-OD1	5.41	123.17	118.30
3	I	391	ASP	CB-CG-OD2	5.40	123.16	118.30
3	M	391	ASP	CB-CG-OD2	5.40	123.16	118.30
3	L	391	ASP	CB-CG-OD2	5.40	123.16	118.30
3	N	907	ASP	CB-CG-OD2	5.40	123.16	118.30
3	G	74	ASP	CB-CG-OD1	5.40	123.16	118.30
3	L	378	ASP	CB-CG-OD1	5.40	123.16	118.30
3	F	856	ASP	CB-CG-OD2	5.39	123.16	118.30
3	L	856	ASP	CB-CG-OD2	5.39	123.15	118.30
3	H	910	ASP	CB-CG-OD1	5.39	123.15	118.30
3	G	587	ASP	CB-CG-OD2	-5.39	113.45	118.30
3	Q	391	ASP	CB-CG-OD2	5.39	123.15	118.30
3	N	788	ASP	CB-CG-OD1	5.39	123.15	118.30
3	K	74	ASP	CB-CG-OD1	5.38	123.14	118.30
3	J	587	ASP	CB-CG-OD2	-5.38	113.46	118.30
3	O	391	ASP	CB-CG-OD2	5.38	123.14	118.30
3	H	603	ASP	CB-CG-OD2	-5.38	113.46	118.30
3	N	378	ASP	CB-CG-OD1	5.38	123.14	118.30
3	F	378	ASP	CB-CG-OD1	5.37	123.14	118.30
3	F	788	ASP	CB-CG-OD1	5.37	123.14	118.30
3	P	74	ASP	CB-CG-OD1	5.37	123.14	118.30
3	O	378	ASP	CB-CG-OD1	5.37	123.14	118.30
3	P	708	ASP	CB-CG-OD2	5.37	123.13	118.30
3	Q	708	ASP	CB-CG-OD2	5.37	123.13	118.30
3	H	378	ASP	CB-CG-OD1	5.37	123.13	118.30
3	J	74	ASP	CB-CG-OD1	5.37	123.13	118.30
3	H	708	ASP	CB-CG-OD2	5.37	123.13	118.30
3	O	738	THR	C-N-CD	-5.37	108.79	120.60
3	P	391	ASP	CB-CG-OD2	5.37	123.13	118.30
3	K	910	ASP	CB-CG-OD1	5.36	123.13	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	708	ASP	CB-CG-OD2	5.36	123.13	118.30
3	G	708	ASP	CB-CG-OD2	5.36	123.13	118.30
3	L	74	ASP	CB-CG-OD1	5.36	123.12	118.30
3	Q	603	ASP	CB-CG-OD2	-5.36	113.48	118.30
3	H	74	ASP	CB-CG-OD1	5.36	123.12	118.30
3	I	603	ASP	CB-CG-OD1	5.36	123.12	118.30
3	J	501	ASP	CB-CG-OD1	5.36	123.12	118.30
3	P	501	ASP	CB-CG-OD1	5.36	123.12	118.30
3	I	378	ASP	CB-CG-OD1	5.35	123.12	118.30
3	O	907	ASP	CB-CG-OD2	5.35	123.12	118.30
3	O	636	ASP	CB-CG-OD1	5.35	123.11	118.30
3	F	738	THR	C-N-CD	-5.35	108.83	120.60
3	H	636	ASP	CB-CG-OD1	5.35	123.11	118.30
3	L	738	THR	C-N-CD	-5.34	108.85	120.60
3	G	391	ASP	CB-CG-OD2	5.34	123.11	118.30
3	J	391	ASP	CB-CG-OD2	5.34	123.11	118.30
3	K	529	ASP	CB-CG-OD2	5.34	123.11	118.30
3	O	603	ASP	CB-CG-OD2	-5.34	113.49	118.30
3	M	708	ASP	CB-CG-OD2	5.34	123.10	118.30
3	F	907	ASP	CB-CG-OD2	5.33	123.10	118.30
3	I	54	ASP	CB-CG-OD2	5.33	123.10	118.30
3	L	907	ASP	CB-CG-OD2	5.33	123.10	118.30
3	F	603	ASP	CB-CG-OD2	-5.33	113.50	118.30
3	O	603	ASP	CB-CG-OD1	5.33	123.10	118.30
3	K	362	ASP	CB-CG-OD1	5.33	123.10	118.30
3	K	603	ASP	CB-CG-OD2	-5.33	113.50	118.30
3	Q	362	ASP	CB-CG-OD1	5.33	123.10	118.30
3	G	529	ASP	CB-CG-OD2	5.33	123.09	118.30
3	F	58	ASP	CB-CG-OD1	5.32	123.09	118.30
3	F	89	ASP	CB-CG-OD1	5.32	123.09	118.30
3	I	738	THR	C-N-CD	-5.32	108.89	120.60
3	O	89	ASP	CB-CG-OD1	5.32	123.09	118.30
3	H	89	ASP	CB-CG-OD1	5.32	123.08	118.30
3	I	447	ASP	CB-CG-OD1	5.32	123.09	118.30
3	F	391	ASP	CB-CG-OD2	5.32	123.08	118.30
3	I	603	ASP	CB-CG-OD2	-5.32	113.52	118.30
3	L	54	ASP	CB-CG-OD2	5.32	123.08	118.30
3	H	734	ASP	CB-CG-OD1	5.31	123.08	118.30
3	I	907	ASP	CB-CG-OD2	5.31	123.08	118.30
3	J	734	ASP	CB-CG-OD1	5.31	123.08	118.30
3	N	362	ASP	CB-CG-OD1	5.31	123.08	118.30
3	P	529	ASP	CB-CG-OD2	5.31	123.08	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	603	ASP	CB-CG-OD1	5.31	123.08	118.30
3	N	603	ASP	CB-CG-OD2	-5.31	113.52	118.30
3	O	54	ASP	CB-CG-OD2	5.31	123.08	118.30
3	H	362	ASP	CB-CG-OD1	5.31	123.08	118.30
3	I	89	ASP	CB-CG-OD1	5.31	123.08	118.30
3	K	734	ASP	CB-CG-OD1	5.31	123.08	118.30
3	K	391	ASP	CB-CG-OD2	5.30	123.07	118.30
3	L	603	ASP	CB-CG-OD1	5.30	123.08	118.30
3	I	788	ASP	CB-CG-OD1	5.30	123.07	118.30
3	J	529	ASP	CB-CG-OD2	5.30	123.07	118.30
3	F	636	ASP	CB-CG-OD1	5.30	123.07	118.30
3	M	738	THR	C-N-CD	-5.30	108.94	120.60
3	L	362	ASP	CB-CG-OD1	5.30	123.07	118.30
3	P	910	ASP	CB-CG-OD1	5.30	123.07	118.30
3	H	391	ASP	CB-CG-OD2	5.29	123.06	118.30
3	J	708	ASP	CB-CG-OD2	5.29	123.06	118.30
3	L	788	ASP	CB-CG-OD1	5.29	123.06	118.30
3	M	378	ASP	CB-CG-OD1	5.29	123.06	118.30
3	F	708	ASP	CB-CG-OD2	5.29	123.06	118.30
3	H	529	ASP	CB-CG-OD2	5.29	123.06	118.30
3	H	738	THR	C-N-CD	-5.29	108.96	120.60
3	N	738	THR	C-N-CD	-5.29	108.96	120.60
3	G	738	THR	C-N-CD	-5.29	108.96	120.60
3	L	636	ASP	CB-CG-OD1	5.29	123.06	118.30
3	M	58	ASP	CB-CG-OD1	5.29	123.06	118.30
3	P	738	THR	C-N-CD	-5.29	108.97	120.60
3	J	910	ASP	CB-CG-OD1	5.29	123.06	118.30
3	K	708	ASP	CB-CG-OD2	5.29	123.06	118.30
3	L	603	ASP	CB-CG-OD2	-5.29	113.54	118.30
3	Q	529	ASP	CB-CG-OD2	5.29	123.06	118.30
3	F	447	ASP	CB-CG-OD1	5.28	123.06	118.30
3	J	58	ASP	CB-CG-OD1	5.28	123.06	118.30
3	I	74	ASP	CB-CG-OD1	5.28	123.05	118.30
3	L	89	ASP	CB-CG-OD1	5.28	123.05	118.30
3	O	74	ASP	CB-CG-OD1	5.28	123.05	118.30
3	P	734	ASP	CB-CG-OD1	5.28	123.05	118.30
3	J	738	THR	C-N-CD	-5.28	108.99	120.60
3	M	734	ASP	CB-CG-OD1	5.28	123.05	118.30
3	O	708	ASP	CB-CG-OD2	5.28	123.05	118.30
3	O	447	ASP	CB-CG-OD1	5.28	123.05	118.30
3	Q	738	THR	C-N-CD	-5.28	109.00	120.60
3	I	708	ASP	CB-CG-OD2	5.27	123.05	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	391	ASP	CB-CG-OD2	5.27	123.05	118.30
3	I	58	ASP	CB-CG-OD1	5.27	123.04	118.30
3	P	89	ASP	CB-CG-OD1	5.27	123.04	118.30
3	L	447	ASP	CB-CG-OD1	5.27	123.04	118.30
3	I	636	ASP	CB-CG-OD1	5.26	123.04	118.30
3	M	603	ASP	CB-CG-OD1	5.26	123.04	118.30
3	N	89	ASP	CB-CG-OD1	5.26	123.04	118.30
3	G	910	ASP	CB-CG-OD1	5.26	123.04	118.30
3	K	738	THR	C-N-CD	-5.26	109.02	120.60
3	K	89	ASP	CB-CG-OD1	5.26	123.04	118.30
3	M	529	ASP	CB-CG-OD2	5.26	123.03	118.30
3	F	54	ASP	CB-CG-OD2	5.26	123.03	118.30
3	O	788	ASP	CB-CG-OD1	5.26	123.03	118.30
3	N	529	ASP	CB-CG-OD2	5.26	123.03	118.30
3	M	910	ASP	CB-CG-OD1	5.26	123.03	118.30
3	O	514	ASP	CB-CG-OD1	5.26	123.03	118.30
3	I	734	ASP	CB-CG-OD1	5.25	123.03	118.30
3	J	378	ASP	CB-CG-OD1	5.25	123.03	118.30
3	G	734	ASP	CB-CG-OD1	5.25	123.03	118.30
3	J	603	ASP	CB-CG-OD1	5.25	123.03	118.30
3	L	734	ASP	CB-CG-OD1	5.25	123.03	118.30
3	N	734	ASP	CB-CG-OD1	5.25	123.03	118.30
3	Q	54	ASP	CB-CG-OD2	5.25	123.03	118.30
3	L	58	ASP	CB-CG-OD1	5.25	123.03	118.30
3	F	734	ASP	CB-CG-OD1	5.25	123.02	118.30
3	Q	89	ASP	CB-CG-OD1	5.25	123.02	118.30
3	N	54	ASP	CB-CG-OD2	5.25	123.02	118.30
3	L	708	ASP	CB-CG-OD2	5.24	123.02	118.30
3	O	362	ASP	CB-CG-OD1	5.24	123.02	118.30
3	F	74	ASP	CB-CG-OD1	5.24	123.02	118.30
3	P	378	ASP	CB-CG-OD1	5.24	123.02	118.30
3	H	54	ASP	CB-CG-OD2	5.24	123.01	118.30
3	G	603	ASP	CB-CG-OD1	5.23	123.01	118.30
3	K	54	ASP	CB-CG-OD2	5.23	123.01	118.30
3	N	58	ASP	CB-CG-OD1	5.23	123.01	118.30
3	G	907	ASP	CB-CG-OD2	5.23	123.01	118.30
3	Q	291	ASP	CB-CG-OD1	5.23	123.01	118.30
3	Q	734	ASP	CB-CG-OD1	5.23	123.01	118.30
3	M	89	ASP	CB-CG-OD1	5.23	123.01	118.30
3	K	407	ASP	CB-CG-OD2	5.23	123.00	118.30
3	N	291	ASP	CB-CG-OD1	5.22	123.00	118.30
3	G	58	ASP	CB-CG-OD1	5.22	123.00	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	291	ASP	CB-CG-OD1	5.22	123.00	118.30
3	O	734	ASP	CB-CG-OD1	5.22	123.00	118.30
3	P	58	ASP	CB-CG-OD1	5.21	122.99	118.30
3	H	58	ASP	CB-CG-OD1	5.21	122.99	118.30
3	I	59	ARG	NE-CZ-NH1	5.21	122.90	120.30
3	L	514	ASP	CB-CG-OD1	5.21	122.99	118.30
3	M	907	ASP	CB-CG-OD2	5.21	122.99	118.30
3	G	378	ASP	CB-CG-OD1	5.21	122.98	118.30
3	Q	58	ASP	CB-CG-OD1	5.20	122.98	118.30
3	G	636	ASP	CB-CG-OD1	5.20	122.98	118.30
3	J	89	ASP	CB-CG-OD1	5.20	122.98	118.30
3	N	866	ASP	CB-CG-OD2	5.20	122.98	118.30
3	Q	866	ASP	CB-CG-OD2	5.20	122.98	118.30
3	Q	447	ASP	CB-CG-OD1	5.20	122.98	118.30
3	O	58	ASP	CB-CG-OD1	5.20	122.98	118.30
3	O	529	ASP	CB-CG-OD2	5.20	122.97	118.30
3	L	407	ASP	CB-CG-OD2	5.19	122.97	118.30
3	G	89	ASP	CB-CG-OD1	5.19	122.97	118.30
3	I	407	ASP	CB-CG-OD2	5.19	122.97	118.30
3	N	447	ASP	CB-CG-OD1	5.19	122.97	118.30
3	P	907	ASP	CB-CG-OD2	5.19	122.97	118.30
3	F	514	ASP	CB-CG-OD1	5.19	122.97	118.30
3	J	907	ASP	CB-CG-OD2	5.19	122.97	118.30
3	Q	407	ASP	CB-CG-OD2	5.19	122.97	118.30
3	H	291	ASP	CB-CG-OD1	5.19	122.97	118.30
3	P	636	ASP	CB-CG-OD1	5.18	122.97	118.30
3	I	362	ASP	CB-CG-OD1	5.18	122.96	118.30
3	J	636	ASP	CB-CG-OD1	5.18	122.96	118.30
3	K	58	ASP	CB-CG-OD1	5.18	122.96	118.30
3	M	514	ASP	CB-CG-OD1	5.18	122.97	118.30
3	F	362	ASP	CB-CG-OD1	5.18	122.96	118.30
3	I	514	ASP	CB-CG-OD1	5.18	122.96	118.30
3	F	866	ASP	CB-CG-OD2	5.18	122.96	118.30
3	P	514	ASP	CB-CG-OD1	5.18	122.96	118.30
3	P	603	ASP	CB-CG-OD1	5.18	122.96	118.30
3	K	59	ARG	NE-CZ-NH1	5.17	122.89	120.30
3	L	866	ASP	CB-CG-OD2	5.17	122.95	118.30
3	O	866	ASP	CB-CG-OD2	5.17	122.95	118.30
3	I	529	ASP	CB-CG-OD2	5.17	122.95	118.30
3	L	529	ASP	CB-CG-OD2	5.17	122.95	118.30
3	M	54	ASP	CB-CG-OD2	5.17	122.95	118.30
3	H	407	ASP	CB-CG-OD2	5.17	122.95	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	514	ASP	CB-CG-OD1	5.17	122.95	118.30
3	O	59	ARG	NE-CZ-NH1	5.17	122.88	120.30
3	I	866	ASP	CB-CG-OD2	5.16	122.95	118.30
3	P	866	ASP	CB-CG-OD2	5.16	122.95	118.30
3	J	54	ASP	CB-CG-OD2	5.16	122.94	118.30
3	K	447	ASP	CB-CG-OD1	5.16	122.94	118.30
3	N	639	ASP	CB-CG-OD1	5.15	122.94	118.30
3	H	447	ASP	CB-CG-OD1	5.15	122.94	118.30
3	J	866	ASP	CB-CG-OD2	5.15	122.94	118.30
3	N	407	ASP	CB-CG-OD2	5.15	122.93	118.30
3	Q	514	ASP	CB-CG-OD1	5.15	122.93	118.30
3	K	866	ASP	CB-CG-OD2	5.14	122.93	118.30
3	G	514	ASP	CB-CG-OD1	5.14	122.93	118.30
3	G	866	ASP	CB-CG-OD2	5.14	122.93	118.30
3	F	59	ARG	NE-CZ-NH1	5.14	122.87	120.30
3	F	529	ASP	CB-CG-OD2	5.14	122.93	118.30
3	F	407	ASP	CB-CG-OD2	5.14	122.92	118.30
3	H	59	ARG	NE-CZ-NH1	5.14	122.87	120.30
3	M	636	ASP	CB-CG-OD1	5.13	122.92	118.30
3	N	59	ARG	NE-CZ-NH1	5.13	122.87	120.30
3	F	379	ARG	NE-CZ-NH1	5.13	122.86	120.30
3	Q	639	ASP	CB-CG-OD1	5.13	122.91	118.30
3	J	362	ASP	CB-CG-OD1	5.12	122.91	118.30
3	P	54	ASP	CB-CG-OD2	5.12	122.91	118.30
3	O	407	ASP	CB-CG-OD2	5.12	122.91	118.30
3	N	514	ASP	CB-CG-OD1	5.12	122.90	118.30
3	G	54	ASP	CB-CG-OD2	5.11	122.90	118.30
3	G	407	ASP	CB-CG-OD2	5.11	122.90	118.30
3	H	866	ASP	CB-CG-OD2	5.11	122.90	118.30
3	G	362	ASP	CB-CG-OD1	5.11	122.90	118.30
3	J	447	ASP	CB-CG-OD1	5.11	122.90	118.30
3	M	447	ASP	CB-CG-OD1	5.11	122.90	118.30
3	H	639	ASP	CB-CG-OD1	5.10	122.89	118.30
3	M	866	ASP	CB-CG-OD2	5.10	122.89	118.30
3	G	447	ASP	CB-CG-OD1	5.10	122.89	118.30
3	P	407	ASP	CB-CG-OD2	5.10	122.89	118.30
3	Q	374	ASP	CB-CG-OD2	5.10	122.89	118.30
3	J	407	ASP	CB-CG-OD2	5.10	122.89	118.30
3	I	639	ASP	CB-CG-OD1	5.09	122.88	118.30
3	O	639	ASP	CB-CG-OD1	5.09	122.88	118.30
3	H	514	ASP	CB-CG-OD1	5.09	122.88	118.30
3	L	379	ARG	NE-CZ-NH1	5.09	122.84	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	695	ASP	CB-CG-OD2	5.08	122.88	118.30
3	M	59	ARG	NE-CZ-NH1	5.08	122.84	120.30
3	H	374	ASP	CB-CG-OD2	5.08	122.87	118.30
3	P	447	ASP	CB-CG-OD1	5.08	122.87	118.30
3	M	407	ASP	CB-CG-OD2	5.07	122.87	118.30
3	Q	59	ARG	NE-CZ-NH1	5.07	122.84	120.30
3	K	639	ASP	CB-CG-OD1	5.07	122.86	118.30
3	L	639	ASP	CB-CG-OD1	5.07	122.86	118.30
3	M	362	ASP	CB-CG-OD1	5.06	122.86	118.30
3	K	514	ASP	CB-CG-OD1	5.06	122.85	118.30
3	O	379	ARG	NE-CZ-NH1	5.06	122.83	120.30
3	N	374	ASP	CB-CG-OD2	5.06	122.85	118.30
3	K	374	ASP	CB-CG-OD2	5.06	122.85	118.30
3	F	639	ASP	CB-CG-OD1	5.05	122.85	118.30
3	I	374	ASP	CB-CG-OD2	5.05	122.85	118.30
3	L	59	ARG	NE-CZ-NH1	5.05	122.83	120.30
3	O	374	ASP	CB-CG-OD2	5.04	122.83	118.30
3	F	374	ASP	CB-CG-OD2	5.03	122.83	118.30
3	I	379	ARG	NE-CZ-NH1	5.02	122.81	120.30
3	P	362	ASP	CB-CG-OD1	5.02	122.82	118.30
3	L	374	ASP	CB-CG-OD2	5.01	122.81	118.30
3	J	59	ARG	NE-CZ-NH1	5.00	122.80	120.30

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	436	0
1	B	3519	0	3452	415	0
1	C	3519	0	3452	416	0
1	D	3519	0	3452	419	0
1	E	3519	0	3452	422	0
2	S	86	0	73	19	0
2	T	86	0	73	17	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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	267	0
3	G	6942	0	6506	248	0
3	H	6942	0	6506	250	0
3	I	6942	0	6506	260	0
3	J	6942	0	6506	238	0
3	K	6942	0	6506	251	0
3	L	6942	0	6506	277	0
3	M	6942	0	6506	263	0
3	N	6942	0	6506	247	0
3	O	6942	0	6506	260	0
3	P	6942	0	6504	249	0
3	Q	6942	0	6506	253	0
All	All	101329	0	95694	4683	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 24.

All (4683) 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:OE1	3:L:68:ILE:HG13	1.44	1.16
3:F:73:GLU:CD	3:L:68:ILE:HG13	1.68	1.12
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
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
1:A:68:ARG:NH1	1:A:562:SER:HB3	1.68	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
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:H:68:ILE:HG13	3:I:73:GLU:CD	1.75	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:341:THR:HG21	3:M:739:PRO:HG2	1.15	1.06
3:L:73:GLU:OE2	3:Q:68:ILE:HB	1.31	1.06
1:A:85:GLN:NE2	3:P:692:SER:HB2	1.71	1.06
3:I:739:PRO:HG2	3:M:341:THR:HG21	1.36	1.05
1:C:479:GLN:O	1:C:483:SER:HB2	1.59	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: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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:73:GLU:CD	3:L:68:ILE:CG1	2.33	0.96
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
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: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
1:E:444:MET:HE3	1:E:561:VAL:HG21	1.52	0.91
3:L:499:THR:HG22	3:L:502:TYR:H	1.35	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:I:499:THR:HG22	3:I:502:TYR:H	1.35	0.91
1:A:486:ILE:CG2	1:B:482:TYR:CE1	2.55	0.90
1:B:444:MET:HE3	1:B:561:VAL:HG21	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:746:ARG:NH1	3:K:753:TYR:HB2	1.87	0.90
1:A:274:THR:HG22	1:A:276:ASP:H	1.37	0.90
1:C:444:MET:HE3	1:C:561:VAL:HG21	1.54	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: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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:J:229:MET:CE	3:J:309:ASN:HB3	2.06	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
3:G:229:MET:CE	3:G:309:ASN:HB3	2.06	0.86
3:P:229:MET:CE	3:P:309:ASN:HB3	2.06	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
1:D:217:LEU:HB2	1:D:232:THR:HG21	1.57	0.86
3:O:229:MET:CE	3:O:309:ASN:HB3	2.06	0.86
3:F:59:ARG:HH12	3:F:623:HIS:H	1.23	0.85
1:D:444:MET:HE1	1:D:561:VAL:HG21	1.57	0.85
1:A:85:GLN:NE2	3:P:692:SER:CB	2.38	0.85
3:Q:229:MET:CE	3:Q:309:ASN:HB3	2.06	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:F:229:MET:CE	3:F:309:ASN:HB3	2.06	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:L:73:GLU:CD	3:Q:68:ILE:HG21	1.97	0.85
3:N:229:MET:CE	3:N:309:ASN:HB3	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:229:MET:CE	3:I:309:ASN:HB3	2.06	0.85
3:K:229:MET:CE	3:K:309:ASN:HB3	2.06	0.85
3:L:229:MET:CE	3:L:309:ASN:HB3	2.06	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:229:MET:HE3	3:P:309:ASN:HB3	1.59	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
3:M:229:MET:CE	3:M:309:ASN:HB3	2.06	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
3:H:229:MET:CE	3:H:309:ASN:HB3	2.06	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:L:73:GLU:CD	3:Q:68:ILE:CG2	2.44	0.82
3:P:178:ILE:HD13	3:P:284:VAL:HG12	1.61	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
3:K:68:ILE:HG13	3:M:73:GLU:CD	2.00	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: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:68:ILE:CG1	3:I:73:GLU:CD	2.48	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
3:L:133:GLU:HG2	3:L:167:VAL:HG22	1.63	0.81
1:D:528:THR:HG21	1:D:564:ARG:HH21	1.42	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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:G:229:MET:HE3	3:G:309:ASN:HB3	1.63	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:J:229:MET:HE3	3:J:309:ASN:HB3	1.65	0.79
3:O:229:MET:HE2	3:O:309:ASN:HB3	1.64	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:229:MET:HE2	3:K:309:ASN:HB3	1.64	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
3:J:30:PHE:CE1	3:J:34:THR:HG21	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:229:MET:HE2	3:N:309:ASN:HB3	1.65	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: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:I:229:MET:HE2	3:I:309:ASN:HB3	1.65	0.77
3:K:68:ILE:CG1	3:M:73:GLU:CD	2.53	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:L:229:MET:HE2	3:L:309:ASN:HB3	1.65	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
1:A:378:VAL:HG23	1:A: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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:A:444:MET:HE3	1:A:561:VAL:HG21	1.68	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: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
3:L:73:GLU:CG	3:Q:68:ILE:CG2	2.57	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:F:229:MET:HE3	3:F:309:ASN:HB3	1.70	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
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: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: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:H:229:MET:HE2	3:H:309:ASN:HB3	1.70	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:E:214:ASN:C	1:E:214:ASN:HD22	1.93	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:274:THR:HG22	1:D:276:ASP:N	2.06	0.71
3:L:822:HIS:HB3	3:N:204:GLN:HG2	1.72	0.71
1:D:214:ASN:C	1:D:214:ASN:HD22	1.93	0.71
3:M:229:MET:HE3	3:M:309:ASN:HB3	1.71	0.71
3:Q:229:MET:HE3	3:Q:309:ASN:HB3	1.73	0.71
1:A:214:ASN:C	1:A:214:ASN:HD22	1.93	0.71
1:A:275:TYR:CZ	1:A:404:ARG:HD3	2.26	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
1:B:98:ASN:HD22	1:B:99:ASN:N	1.90	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: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
3:F:841:TYR:CG	3:F:842:PRO:HD2	2.27	0.70
1:D:424:LEU:HD23	1:D:425:LEU:N	2.06	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:B:214:ASN:C	1:B:214:ASN:HD22	1.93	0.69
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
1:C:214:ASN:HD22	1:C:214:ASN:C	1.92	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:O:302:MET:HE3	3:O:303:PRO:N	2.08	0.69
3:P:133:GLU:HG2	3:P:167:VAL:CG2	2.21	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:G:302:MET:HE3	3:G:303:PRO:N	2.08	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:M:534:PHE:CD2	3:M:710:THR:HB	2.27	0.69
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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: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
1:C:428:PRO:O	1:C:429:ASP:HB3	1.93	0.68
1:D:457:ILE:HD12	1:D:458:SER:H	1.58	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
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	2.09	0.68
1:A:457:ILE:HD12	1:A:458:SER:H	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:892:LEU:HD12	3:I:892:LEU:O	1.93	0.68
3:M:297:THR:HG22	3:M:320:PRO:HA	1.75	0.68
3:I:362:ASP:HB3	3:I:941:ARG:NH2	2.08	0.68
3:O:297:THR:HG22	3:O:320:PRO:HA	1.75	0.68
3:Q:302:MET:HE3	3:Q:303:PRO:N	2.08	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:J:327:ALA:HB2	3:J:546:SER:HA	1.76	0.68
1:A:487:ARG:NE	1:B:234:GLU:OE2	2.25	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:I:297:THR:HG22	3:I:320:PRO:HA	1.75	0.68
3:K:297:THR:HG22	3:K:320:PRO:HA	1.75	0.68
3:J:59:ARG:NH1	3:J:623:HIS:H	1.92	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:K:302:MET:HE3	3:K:303:PRO:N	2.09	0.68
3:M:229:MET:HE2	3:M:309:ASN:HB3	1.76	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:D:428:PRO:O	1:D:429:ASP:HB3	1.94	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:L:302:MET:HE3	3:L:303:PRO:HD2	1.75	0.67
3:P:362:ASP:HB3	3:P:941:ARG:NH2	2.08	0.67
3:Q:229:MET:HE2	3:Q:309:ASN:HB3	1.75	0.67
1:D:499:PHE:HD1	1:D:505:LEU:HB3	1.59	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:369:TYR:CD2	3:N:564:LYS:HE2	2.30	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:H:302:MET:HE3	3:H:303:PRO:N	2.09	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
3:J:369:TYR:CD2	3:J:564:LYS:HE2	2.29	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
1:C:558:LEU:HD21	1:D:436:GLN:HG2	1.75	0.67
3:F:302:MET:HE3	3:F:303:PRO:HD2	1.76	0.67
3:G:362:ASP:HB3	3:G:941:ARG:NH2	2.08	0.67
3:I:302:MET:HE3	3:I:303:PRO:N	2.10	0.67
3:K:369:TYR:CD2	3:K:564:LYS:HE2	2.30	0.67
3:M:302:MET:HE3	3:M:303:PRO:N	2.10	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:327:ALA:HB2	3:P:546:SER:HA	1.76	0.67
1:E:499:PHE:HD1	1:E:505:LEU:HB3	1.59	0.66
3:J:302:MET:HE3	3:J:303:PRO:HD2	1.77	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
1:A:274:THR:HG22	1:A:275:TYR:N	2.10	0.66
1:C:130:ASN:HA	1:C:519:ASN:CG	2.16	0.66
1:E:130:ASN:HA	1:E:519:ASN:CG	2.16	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
3:P:302:MET:HE3	3:P:303:PRO:N	2.10	0.66
1:A:130:ASN:HA	1:A:519:ASN:CG	2.16	0.66
1:A:215:PHE:HB3	1:A:283:ILE:HG23	1.77	0.66
1:B:130:ASN:HA	1:B:519:ASN:CG	2.16	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: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: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: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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:215:PHE:HB3	1:B:283:ILE:HG23	1.77	0.66
3:F:229:MET:HE2	3:F:309:ASN:HB3	1.78	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: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
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: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:C:440:SER:C	1:C:442:PRO:HD3	2.17	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: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:O:835:MET:HE1	3:Q:209:GLN:O	1.96	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:B:440:SER:C	1:B:442:PRO:HD3	2.17	0.65
1:C:487:ARG:NH1	1:C:507:ARG:NH2	2.44	0.65
1:D:130:ASN:HA	1:D:519:ASN:CG	2.16	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:755:VAL:HG22	3:G:756:ALA:H	1.60	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:M:209:GLN:O	3:N:835:MET:HE1	1.96	0.65
1:A:440:SER:C	1:A:442:PRO:HD3	2.17	0.65
1:B:214:ASN:HD21	1:B:216:ARG:HB3	1.60	0.65
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: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: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
1:E:440:SER:C	1:E:442:PRO:HD3	2.17	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:C:207:GLY:O	1:C:208:VAL:HB	1.97	0.65
1:D:133:ASN:HB2	1:D:175:TYR:CD2	2.32	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:229:MET:HE3	3:H:309:ASN:HB3	1.78	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:209:GLN:O	3:Q:835:MET:HE1	1.96	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:D:440:SER:C	1:D:442:PRO:HD3	2.17	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
1:A:444:MET:CE	1:A:561:VAL:HG21	2.28	0.64
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: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:L:835:MET:HE1	3:N:209:GLN:O	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:I:209:GLN:O	3:J:835:MET:HE1	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:302:MET:HE3	3:P:303:PRO:HD2	1.80	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: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: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: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:F:209:GLN:O	3:G:835:MET:HE1	1.96	0.64
3:L:89:ASP:OD1	3:L:932:ARG:NH1	2.30	0.64
3:L:664:ILE:HD11	3:L:902:MET:HE2	1.78	0.64
3:Q:89:ASP:OD1	3:Q:932:ARG:NH1	2.30	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:O:209:GLN:O	3:P:835:MET:HE1	1.98	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: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: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:C:544:THR:HG21	1:C:548:ARG:HA	1.80	0.64
3:N:250:VAL:HG23	3:N:260:GLN:HG3	1.79	0.64
3:O:89:ASP:OD1	3:O:932:ARG:NH1	2.30	0.64
1:A:436:GLN:NE2	1:A:438:TYR:HE2	1.96	0.64
1:B:64:PHE:HD1	1:C:118:HIS:NE2	1.95	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
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:D:487:ARG:HH21	1:E:234:GLU:CD	2.02	0.63
1:E:210:PHE:HD2	1:E:240:ILE:HG22	1.63	0.63
3:G:209:GLN:O	3:H:835:MET:HE1	1.98	0.63
3:J:302:MET:HE3	3:J:303:PRO:N	2.12	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
3:G:319:MET:CG	3:G:320:PRO:HD2	2.29	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:I:94:ASP:OD2	3:K:43:LYS:NZ	2.31	0.63
3:L:667:PRO:CD	3:O:726:SER:CB	2.76	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:67:THR:HG21	1:C:449:VAL:HG22	1.80	0.63
3:F:112:PHE:CZ	3:F:114:PRO:HG3	2.34	0.63
3:F:302:MET:HE3	3:F:303:PRO:CD	2.29	0.63
3:I:835:MET:HE1	3:K:209:GLN:O	1.98	0.63
3:J:747:SER:O	3:J:749:ASP:N	2.29	0.63
3:O:942:THR:HA	3:O:943:PRO:C	2.19	0.63
3:Q:112:PHE:CZ	3:Q:114:PRO:HG3	2.34	0.63
1:B:210:PHE:HD2	1:B:240:ILE:HG22	1.63	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:942:THR:HA	3:F:943:PRO:C	2.19	0.63
3:H:496:ASN:O	3:H:499:THR:HB	1.99	0.63
3:J:942:THR:HA	3:J:943:PRO:C	2.19	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
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
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: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:942:THR:HA	3:I:943:PRO:C	2.19	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:496:ASN:O	3:J:499:THR:HB	1.99	0.63
3:L:209:GLN:O	3:M:835:MET:HE1	1.99	0.63
3:L:302:MET:HE3	3:L:303:PRO:CD	2.29	0.63
3:M:302:MET:HE3	3:M:303:PRO:HD2	1.81	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:D:154:THR:HG22	1:D:155:LYS:N	2.14	0.62
3:F:302:MET:HE3	3:F:303:PRO:N	2.14	0.62
3:F:835:MET:HE1	3:H:209:GLN:O	1.99	0.62
3:H:112:PHE:CZ	3:H:114:PRO:HG3	2.34	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
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: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:L:942:THR:HA	3:L:943:PRO:C	2.19	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:J:209:GLN:O	3:K:835:MET:HE1	1.98	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
3:P:942:THR:HA	3:P:943:PRO:C	2.19	0.62
1:B:544:THR:HG21	1:B:548:ARG:HA	1.80	0.62
1:D:444:MET:CE	1:D:561:VAL:HG21	2.28	0.62
3:G:942:THR:HA	3:G:943:PRO:C	2.19	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:P:302:MET:HE3	3:P:303:PRO:CD	2.30	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
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: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:M:302:MET:HE3	3:M:303:PRO:CD	2.30	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
3:Q:942:THR:HA	3:Q:943:PRO:C	2.19	0.62
1:A:111:ILE:HD13	1:B:449:VAL:HG11	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:171:PRO:O	1:B:174:ASN:ND2	2.32	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
1:D:477:ASN:C	1:D:479:GLN:H	2.03	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
1:A:477:ASN:C	1:A:479:GLN:N	2.53	0.62
3:J:675:ARG:NH1	3:J:921:VAL:O	2.32	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:B:444:MET:CE	1:B:561:VAL:HG21	2.28	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
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
1:A:211:ASP:OD1	1:A:212:THR:N	2.31	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:I:302:MET:HE3	3:I:303:PRO:HD2	1.81	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:N:942:THR:HA	3:N:943:PRO:C	2.19	0.61
3:P:523:TRP:CZ2	3:P:862:LYS:HE2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:154:THR:HG22	1:C:155:LYS:N	2.14	0.61
1:C:477:ASN:C	1:C:479:GLN:H	2.03	0.61
1:D:385:ASP:OD1	1:D:389:ARG:HD2	2.00	0.61
1:D:481:VAL:HG12	1:D:481:VAL:O	2.00	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:H:302:MET:HE3	3:H:303:PRO:CD	2.30	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:Q:523:TRP:CZ2	3:Q:862:LYS:HE2	2.34	0.61
3:Q:664:ILE:HD11	3:Q:902:MET:HE2	1.82	0.61
1:B:477:ASN:C	1:B:479:GLN:H	2.03	0.61
1:B:481:VAL:HG12	1:B:481:VAL:O	2.00	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
3:I:302:MET:HE3	3:I:303:PRO:CD	2.30	0.61
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: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:302:MET:HE3	3:J:303:PRO:CD	2.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:302:MET:HE3	3:H:303:PRO:HD2	1.82	0.61
3:H:755:VAL:HG22	3:H:756:ALA:N	2.16	0.61
3:H:942:THR:HA	3:H:943:PRO:C	2.19	0.61
3:L:229:MET:HE3	3:L:309:ASN:HB3	1.82	0.61
3:P:929:ARG:HG3	3:P:934:VAL:O	2.00	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
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:C:99:ASN:HB3	1:D:452:ARG:NH2	2.16	0.61
1:C:177:GLU:HG3	1:C:178:THR:N	2.15	0.61
1:C:430:VAL:HG21	1:C:517:SER:N	2.16	0.61
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:302:MET:HE3	3:K:303:PRO:CD	2.31	0.61
3:K:755:VAL:HG22	3:K:756:ALA:N	2.16	0.61
3:K:942:THR:HA	3:K:943:PRO:C	2.19	0.61
3:L:411:ASN:HB2	3:L:461:ILE:O	1.99	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
1:D:477:ASN:C	1:D:479:GLN:N	2.53	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:K:664:ILE:HD11	3:K:902:MET:HE2	1.81	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:444:MET:CE	1:C:561:VAL:HG21	2.28	0.61
1:D:378:VAL:CG2	1:D:379:ILE:H	2.14	0.61
1:E:477:ASN:C	1:E:479:GLN:N	2.53	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:302:MET:HE3	3:L:303:PRO:N	2.16	0.61
3:L:469:ARG:NH2	3:L:828:VAL:HG21	2.16	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: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
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: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:444:MET:CE	1:E:561:VAL:HG21	2.27	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: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:J:229:MET:HE2	3:J:309:ASN:HB3	1.83	0.60
3:N:302:MET:HE3	3:N:303:PRO:CD	2.31	0.60
1:A:57:TYR:O	1:A:58:SER:C	2.40	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
1:E:57:TYR:O	1:E:58:SER:C	2.40	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:57:TYR:O	1:C:58:SER:C	2.40	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: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: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
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
3:I:134:TRP:HB3	3:I:229:MET:CE	2.32	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
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:I:204:GLN:HE22	3:J:820:HIS:HA	1.67	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: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: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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:477:ASN:C	1:A:479:GLN:H	2.03	0.60
1:D:173:GLY:O	1:D:175:TYR:CD1	2.55	0.60
3:I:57:THR:HG22	3:I:59:ARG:HD2	1.81	0.60
3:K:302:MET:HE3	3:K:303:PRO:HD2	1.83	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
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: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:N:302:MET:HE3	3:N:303:PRO:HD2	1.83	0.59
3:O:469:ARG:NH2	3:O:828:VAL:HG21	2.16	0.59
3:O:664:ILE:HD11	3:O:902:MET:HE3	1.84	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:K:89:ASP:CG	3:K:932:ARG:HH12	2.06	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:302:MET:HE3	3:Q:303:PRO:HD2	1.85	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:O:302:MET:HE3	3:O:303:PRO:CD	2.32	0.59
3:P:574:LEU:HB3	3:P:575:PRO:HD2	1.84	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
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: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:G:231:PRO:HG2	3:G:318:SER:HB2	1.82	0.59
3:G:302:MET:HE3	3:G:303:PRO:CD	2.31	0.59
3:L:89:ASP:CG	3:L:932:ARG:HH12	2.06	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:57:TYR:O	1:B:58:SER:C	2.40	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
1:E:477:ASN:C	1:E:479:GLN:H	2.03	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:G:89:ASP:CG	3:G:932:ARG:HH12	2.06	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:N:89:ASP:CG	3:N:932:ARG:HH12	2.06	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:N	1:C:499:PHE:CD2	2.69	0.59
1:D:278:LEU:HD22	1:D:406:TRP:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:98:ASN:HD22	1:E:98:ASN:C	2.06	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:89:ASP:CG	3:O:932:ARG:HH12	2.06	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
1:A:498:ARG:O	2:S:16:PRO:HD3	2.03	0.59
1:B:499:PHE:N	1:B:499:PHE:CD2	2.69	0.59
1:C:208:VAL:HG22	1:C:242:LEU:CD2	2.33	0.59
1:D:98:ASN:HD22	1:D:98:ASN:C	2.06	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:D:435:GLU:OE1	1:D:435:GLU:HA	2.03	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:Q:66:ARG:NH2	3:Q:68:ILE:HD11	2.17	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:D:57:TYR:O	1:D:58:SER:C	2.40	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:K:68:ILE:HG21	3:M:73:GLU:HG2	1.85	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:N	1:A:499:PHE:CD2	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:G:302:MET:HE3	3:G:303:PRO:HD2	1.84	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:664:ILE:HD11	3:I:902:MET:HE2	1.84	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:C:477:ASN:C	1:C:479:GLN:N	2.53	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:N	1:E:499:PHE:CD2	2.69	0.58
3:J:89:ASP:CG	3:J:932:ARG:HH12	2.06	0.58
3:K:229:MET:HE3	3:K:309:ASN:HB3	1.84	0.58
3:N:229:MET:HE3	3:N:309:ASN:HB3	1.82	0.58
3:Q:302:MET:HE3	3:Q:303:PRO:CD	2.32	0.58
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: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:H:89:ASP:CG	3:H:932:ARG:HH12	2.06	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:M:89:ASP:CG	3:M:932:ARG:HH12	2.06	0.58
3:M:942:THR:HA	3:M:943:PRO:C	2.19	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:435:GLU:OE1	1:A:435:GLU:HA	2.03	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:I:89:ASP:CG	3:I:932:ARG:HH12	2.06	0.58
3:K:250:VAL:CG2	3:K:260:GLN:HG3	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:250:VAL:CG2	3:Q:260:GLN:HG3	2.34	0.58
1:B:100:ASP:CG	1:C:452:ARG:HH12	2.07	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:477:ASN:C	1:B:479:GLN:N	2.53	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:89:ASP:CG	3:F:932:ARG:HH12	2.06	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:O:302:MET:HE3	3:O:303:PRO:HD2	1.85	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:I:229:MET:HE3	3:I:309:ASN:HB3	1.82	0.58
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:P:89:ASP:CG	3:P:932:ARG:HH12	2.06	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
1:E:538:VAL:HG23	1:E:538:VAL:O	2.02	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
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
3:P:526:ASP:OD1	3:P:862:LYS:NZ	2.32	0.58
1:A:274:THR:CG2	1:A:275:TYR:N	2.67	0.58
1:B:498:ARG:C	1:B:499:PHE:HD2	2.08	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:389:ARG:HG2	1:D:389:ARG:HH11	1.67	0.58
3:G:499:THR:HG23	3:G:501:ASP:N	2.19	0.58
1:A:122:ASP:OD1	1:A:528:THR:HG22	2.03	0.57
1:A:234:GLU:CD	1:E:487:ARG:HH21	2.06	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
3:Q:89:ASP:CG	3:Q:932:ARG:HH12	2.06	0.57
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:F:75:THR:O	3:F:586:LYS:NZ	2.30	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:A:498:ARG:C	1:A:499:PHE:HD2	2.08	0.57
1:B:504:ILE:O	1:B:506:ALA:N	2.37	0.57
1:C:498:ARG:C	1:C:499:PHE:HD2	2.08	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:B:498:ARG:O	2:T:16:PRO:HD3	2.03	0.57
1:C:498:ARG:C	1:C:499:PHE:CD2	2.78	0.57
1:D:498:ARG:C	1:D:499:PHE:HD2	2.07	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:E:214:ASN:C	1:E:214:ASN:ND2	2.58	0.57
3:G:229:MET:HE2	3:G:309:ASN:HB3	1.84	0.57
3:G:250:VAL:CG2	3:G:260:GLN:HG3	2.34	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: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
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:498:ARG:C	1:E:499:PHE:HD2	2.08	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: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:B:498:ARG:C	1:B:499:PHE:CD2	2.78	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
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:175:TYR:HD1	1:A:175:TYR:H	1.52	0.57
1:A:214:ASN:C	1:A:214:ASN:ND2	2.58	0.57
1:B:98:ASN:HD22	1:B:98:ASN:C	2.06	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:98:ASN:HD22	1:A:98:ASN:C	2.06	0.57
1:A:498:ARG:C	1:A:499:PHE:CD2	2.78	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
3:O:526:ASP:OD1	3:O:862:LYS:NZ	2.32	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:E:498:ARG:C	1:E:499:PHE:CD2	2.78	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
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:D:498:ARG:C	1:D:499:PHE:CD2	2.78	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:B:88:HIS:ND1	1:B:555:TYR:O	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:N	1:D:499:PHE:CD2	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
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:M:664:ILE:HD11	3:M:902:MET:HE2	1.87	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
1:A:99:ASN:HB3	1:B:452:ARG:NH2	2.20	0.56
1:A:431:THR:O	1:A:432:CYS:HB2	2.05	0.56
1:B:214:ASN:C	1:B:214:ASN:ND2	2.58	0.56
1:B:463:VAL:HB	1:B:529:LEU:HD13	1.87	0.56
1:C:98:ASN:HD22	1:C:98:ASN:C	2.06	0.56
1:E:431:THR:O	1:E:432:CYS:HB2	2.05	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
3:O:229:MET:HE3	3:O:309:ASN:HB3	1.84	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: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:545:ARG:NH2	3:J:593:GLN:OE1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:487:ARG:HH21	1:D:234:GLU:CD	2.08	0.56
1:D:214:ASN:C	1:D:214:ASN:ND2	2.58	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
2:S:18:ASP:O	2:S:18:ASP:CG	2.44	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: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:C:214:ASN:C	1:C:214:ASN:ND2	2.58	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:75:THR:HG23	3:N:76:ALA:H	1.71	0.56
1:B:67:THR:OG1	1:B:68:ARG:N	2.39	0.56
1:B:520:VAL:HG23	1:B:521:PRO:HD2	1.87	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: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: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
1:A:486:ILE:HG23	1:B:482:TYR:CE1	2.40	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:F:664:ILE:HD11	3:F:902:MET:HE3	1.88	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
2:V:18:ASP:O	2:V:18:ASP:CG	2.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:D:67:THR:HG21	1:E:449:VAL:CG2	2.37	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
1:C:446:GLN:O	1:C:448:PRO:HD3	2.07	0.55
1:D:130:ASN:HA	1:D:519:ASN:ND2	2.21	0.55
1:E:65:ASP:O	1:E:66:THR:HB	2.06	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: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: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: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
2:W:18:ASP:O	2:W:18:ASP:CG	2.44	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:941:ARG:HD2	3:F:944:PHE:O	2.06	0.55
3:G:101:ASP:OD2	3:G:558:HIS:NE2	2.40	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:65:ASP:O	1:D:66:THR:HB	2.06	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:101:ASP:OD2	3:N:558:HIS:NE2	2.40	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
1:D:279:GLU:O	1:D:280:GLY:O	2.24	0.55
2:U:18:ASP:O	2:U:18:ASP:CG	2.44	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:P:664:ILE:HD11	3:P:902:MET:HE2	1.88	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:197:ARG:HG3	1:A:198:GLN:HG3	1.88	0.55
1:B:279:GLU:O	1:B:280:GLY:C	2.45	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
2:T:18:ASP:O	2:T:18:ASP:CG	2.44	0.55
3:J:832:ALA:HB1	3:J:833:PRO:HD2	1.88	0.55
3:K:526:ASP:OD1	3:K:862:LYS:NZ	2.32	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:214:ASN:O	1:B:216:ARG:N	2.41	0.54
1:C:377:PRO:O	1:C:379:ILE:N	2.40	0.54
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:C:100:ASP:CG	1:D:452:ARG:HH12	2.10	0.54
1:D:279:GLU:O	1:D:280:GLY:C	2.45	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
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:C:279:GLU:O	1:C:280:GLY:C	2.45	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:B:565:VAL:HG12	1:B:566:LEU:N	2.23	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:430:VAL:CG1	1:E:515:THR:HB	2.38	0.54
3:G:823:ASN:O	3:G:824:ASN:HB2	2.08	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:177:GLU:CG	1:C:178:THR:N	2.71	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
1:E:565:VAL:HG12	1:E:566:LEU:N	2.23	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
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: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:526:ASP:OD1	3:J:862:LYS:NZ	2.32	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:A:279:GLU:O	1:A:280:GLY:C	2.45	0.53
1:B:243:LEU:HG	1:B:403:TYR:CE2	2.43	0.53
1:C:444:MET:HB2	1:C:539:GLN:OE1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:E:279:GLU:O	1:E:280:GLY:C	2.46	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:D:243:LEU:HG	1:D:403:TYR:CE2	2.44	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:L:823:ASN:O	3:L:824:ASN:HB2	2.08	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: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:378:VAL:C	1:C:380:LYS:N	2.62	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
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:128:HIS:CE1	1:B:434:SER:HG	2.26	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:B:378:VAL:C	1:B:380:LYS:N	2.62	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:179:MET:HE3	1:B:487:ARG:HH22	1.72	0.53
1:B:444:MET:HB2	1:B:539:GLN:OE1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:444:MET:HB2	1:E:539:GLN:OE1	2.08	0.53
3:G:526:ASP:OD1	3:G:862:LYS:NZ	2.32	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
3:M:924:VAL:HG12	3:M:925:VAL:N	2.24	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
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:403:TYR:HD1	1:E:504:ILE:HG12	1.68	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:A:378:VAL:C	1:A:380:LYS:N	2.62	0.53
1:B:151:ARG:HB3	1:B:201:VAL:N	2.24	0.53
1:C:128:HIS:CE1	1:D:434:SER:HG	2.27	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:179:MET:HE3	1:D:487:ARG:HH22	1.74	0.53
1:D:378:VAL:C	1:D:380:LYS:N	2.62	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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
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:412:TYR:OH	3:H:835:MET:HA	2.10	0.52
3:F:526:ASP:OD1	3:F:862:LYS:NZ	2.32	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:B:113:LEU:O	1:B:114:ASP:C	2.47	0.52
1:D:457:ILE:HD12	1:D:458:SER:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:Q:924:VAL:HG12	3:Q:925:VAL:N	2.24	0.52
1:A:113:LEU:O	1:A:114:ASP:C	2.47	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: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
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: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:D:558:LEU:HD12	1:D:558:LEU:C	2.30	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:K:924:VAL:HG12	3:K:925:VAL:N	2.24	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:E:378:VAL:C	1:E:380:LYS:N	2.62	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:A:558:LEU:C	1:A:558:LEU:HD12	2.31	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:113:LEU:O	1:E:114:ASP:C	2.47	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
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: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:179:MET:HE3	1:E:487:ARG:HH22	1.75	0.52
1:E:243:LEU:HG	1:E:403:TYR:CE2	2.44	0.52
1:E:558:LEU:C	1:E:558:LEU:HD12	2.30	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:P:552:GLY:N	3:Q:803:GLN:OE1	2.43	0.52
1:B:292:TYR:HD1	1:B:378:VAL:HG12	1.75	0.51
1:B:558:LEU:C	1:B:558:LEU:HD12	2.31	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:130:ASN:HD22	1:D:130:ASN:C	2.14	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:J:664:ILE:HD11	3:J:902:MET:HE2	1.91	0.51
3:K:325:TYR:O	3:K:594:SER:HA	2.10	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:526:ASP:OD1	3:H:862:LYS:NZ	2.32	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:P:222:VAL:HG22	3:P:223:LEU:N	2.25	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:113:LEU:O	1:D:114:ASP:C	2.47	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
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:429:ASP:C	1:B:429:ASP:OD1	2.49	0.51
1:B:555:TYR:HE2	1:C:434:SER:N	2.09	0.51
1:C:113:LEU:O	1:C:114:ASP:C	2.47	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:C:429:ASP:C	1:C:429:ASP:OD1	2.49	0.51
1:D:277:ASP:O	1:D:419:ILE:HD13	2.10	0.51
1:D:429:ASP:C	1:D:429:ASP:OD1	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:457:ILE:HA	1:A:460:PHE:CE2	2.44	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
3:P:229:MET:HE2	3:P:309:ASN:HB3	1.89	0.51
1:A:179:MET:HE2	1:A:487:ARG:NH2	2.25	0.51
1:B:178:THR:OG1	1:B:511:PRO:HD2	2.10	0.51
1:B:237:HIS:CD2	1:B:425:LEU:HD11	2.46	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:429:ASP:C	1:A:429:ASP:OD1	2.49	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:C:558:LEU:C	1:C:558:LEU:HD12	2.30	0.51
1:D:235:ALA:C	1:D:236:PHE:HD1	2.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:128:HIS:CE1	1:C:434:SER:HG	2.28	0.50
1:B:235:ALA:C	1:B:236:PHE:HD1	2.15	0.50
1:B:457:ILE:HD12	1:B:458:SER:N	2.25	0.50
1:C:235:ALA:C	1:C:236:PHE:HD1	2.15	0.50
1:D:476:TYR:CD1	1:D:513:ILE:HD11	2.45	0.50
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:773:TYR:O	3:N:774:ASN:HB2	2.11	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:135:ASN:H	1:B:140:THR:HG1	1.59	0.50
1:B:389:ARG:HG2	1:B:389:ARG:NH1	2.26	0.50
1:D:64:PHE:HD1	1:E:118:HIS:NE2	2.09	0.50
1:E:235:ALA:C	1:E:236:PHE:HD1	2.15	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:292:TYR:HD1	1:D:378:VAL:HG12	1.75	0.50
1:E:429:ASP:C	1:E:429:ASP:OD1	2.49	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: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:G:664:ILE:HD11	3:G:902:MET:HE2	1.93	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:A:235:ALA:C	1:A:236:PHE:HD1	2.15	0.50
1:B:68:ARG:NH1	1:B:68:ARG:CG	2.67	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:N:344:MET:HE3	3:N:357:VAL:O	2.12	0.50
3:Q:683:LYS:HD2	3:Q:712:TYR:OH	2.11	0.50
1:A:130:ASN:C	1:A:130:ASN:HD22	2.14	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:130:ASN:HD22	1:C:130:ASN:C	2.14	0.50
1:C:375:LYS:O	1:C:376:LYS:HG3	2.12	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
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:130:ASN:HD22	1:B:130:ASN:C	2.14	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: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:F:773:TYR:O	3:F:774:ASN:HB2	2.11	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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:98:ASN:C	1:C:98:ASN:ND2	2.66	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:130:ASN:C	1:E:130:ASN:HD22	2.14	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: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:228:PRO:HG3	2:S:15:TYR:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:E:132:PRO:CA	1:E:175:TYR:OH	2.53	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
3:Q:526:ASP:OD1	3:Q:862:LYS:NZ	2.32	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: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:D:98:ASN:C	1:D:98:ASN:ND2	2.66	0.49
1:E:493:THR:HG22	1:E:494:HIS:N	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:391:TYR:O	1:A:392:ASN:C	2.51	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:D:493:THR:HG22	1:D:494:HIS:N	2.27	0.49
1:E:243:LEU:CD2	1:E:244:PRO:HD3	2.42	0.49
1:E:391:TYR:O	1:E:392:ASN:C	2.51	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:B:386:SER:O	1:B:388:LYS:N	2.45	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:H:664:ILE:HD11	3:H:902:MET:CE	2.43	0.49
3:K:68:ILE:HB	3:M:73:GLU:OE2	2.12	0.49
3:K:664:ILE:HD11	3:K:902:MET:CE	2.43	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:386:SER:O	1:C:388:LYS:N	2.46	0.49
1:C:391:TYR:O	1:C:392:ASN:C	2.51	0.49
1:D:375:LYS:O	1:D:376:LYS:HG3	2.12	0.49
2:S:10:THR:O	2:S:10:THR:CG2	2.60	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
3:I:664:ILE:HD11	3:I:902:MET:CE	2.43	0.49
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:Q:118:THR:HG23	3:Q:297:THR:HG23	1.95	0.49
1:A:98:ASN:C	1:A:98:ASN:ND2	2.66	0.48
1:C:249:ASP:C	1:C:249:ASP:OD1	2.52	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
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:I:344:MET:HE3	3:I:357:VAL:O	2.13	0.48
3:L:175:GLY:HA3	3:L:183:ILE:HD11	1.95	0.48
3:L:526:ASP:OD1	3:L:862:LYS:NZ	2.32	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:N:664:ILE:HD11	3:N:902:MET:CE	2.43	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:98:ASN:C	1:B:98:ASN:ND2	2.66	0.48
1:B:183:LEU:HD21	1:C:236:PHE:HE2	1.78	0.48
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:D:391:TYR:O	1:D:392:ASN:C	2.51	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:J:664:ILE:HD11	3:J:902:MET:CE	2.43	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: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:C:179:MET:CE	1:C:487:ARG:NH2	2.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:243:LEU:CG	1:D:403:TYR:HE2	2.25	0.48
1:D:249:ASP:C	1:D:249:ASP:OD1	2.51	0.48
1:E:98:ASN:C	1:E:98:ASN:ND2	2.66	0.48
1:E:145:ALA:HA	1:E:248:VAL:HA	1.96	0.48
3:G:664:ILE:HD11	3:G:902:MET:CE	2.43	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:74:ASN:O	1:D:75:LYS:C	2.52	0.48
1:D:130:ASN:HD22	1:D:130:ASN:N	2.10	0.48
1:D:179:MET:CE	1:D:487:ARG:NH2	2.77	0.48
1:D:237:HIS:HD2	1:D:238:PRO:O	1.96	0.48
1:D:497:ASN:ND2	1:D:500:PRO:HB3	2.28	0.48
1:E:179:MET:CE	1:E:487:ARG:NH2	2.77	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: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:179:MET:CE	1:B:487:ARG:NH2	2.77	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:74:ASN:O	1:E:75:LYS:C	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:B:249:ASP:C	1:B:249:ASP:OD1	2.51	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: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
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: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
3:P:664:ILE:HD11	3:P:902:MET:CE	2.43	0.48
1:A:74:ASN:O	1:A:75:LYS:C	2.52	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:249:ASP:C	1:A:249:ASP:OD1	2.51	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:179:MET:HE3	1:B:487:ARG:NH2	2.29	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:249:ASP:C	1:E:249:ASP:OD1	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:L:664:ILE:HD11	3:L:902:MET:CE	2.43	0.48
3:O:75:THR:CG2	3:O:76:ALA:N	2.77	0.48
3:O:664:ILE:HD11	3:O:902:MET:CE	2.43	0.48
3:P:175:GLY:HA3	3:P:183:ILE:HD11	1.95	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:179:MET:CE	1:A:487:ARG:NH2	2.77	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
3:F:717:PHE:HB3	3:F:744:ILE:HD13	1.96	0.48
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
1:A:452:ARG:NH2	1:E:99:ASN:HB3	2.29	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:I:88:GLY:O	3:I:91:ARG:HB2	2.15	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
3:O:134:TRP:HB3	3:O:229:MET:HE3	1.96	0.47
1:A:87:ASP:O	1:A:89:SER:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:F:664:ILE:HD11	3:F:902:MET:CE	2.43	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: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: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:HG22	1:D:542:THR:O	2.13	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:N:427:LYS:HG2	3:N:428:VAL:N	2.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:427:LYS:HG2	3:P:428:VAL:N	2.29	0.47
3:Q:664:ILE:HD11	3:Q:902:MET:CE	2.43	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:C:102:SER:O	1:C:103:PRO:C	2.52	0.47
1:E:493:THR:HG22	1:E:495:VAL:N	2.29	0.47
3:H:134:TRP:HB3	3:H:229:MET:HE3	1.97	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:M:664:ILE:HD11	3:M:902:MET:CE	2.43	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:74:ASN:O	1:C:75:LYS:C	2.52	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
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:I:134:TRP:HB3	3:I:229:MET:HE3	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: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:75:THR:CG2	3:P:76:ALA:N	2.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:677:TRP:NE1	3:H:902:MET:HE2	2.30	0.47
3:I:717:PHE:HB3	3:I:744:ILE:HD13	1.96	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
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:391:TYR:O	1:B:392:ASN:C	2.51	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
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: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:G:344:MET:HE3	3:G:357:VAL:O	2.14	0.47
3:H:344:MET:HE3	3:H:357:VAL:O	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:379:ARG:HD2	3:L:379:ARG:HA	1.72	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:B:74:ASN:O	1:B:75:LYS:C	2.52	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
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
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:134:TRP:HB3	3:K:229:MET:HE3	1.95	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:N:526:ASP:OD1	3:N:862:LYS:NZ	2.32	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: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:O:5:MET:O	3:O:7:PRO:HD2	2.15	0.47
1:A:215:PHE:CE1	1:A:241:ILE:HD11	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:179:MET:HE3	1:D:487:ARG:NH2	2.30	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: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:J:675:ARG:NH1	3:J:921:VAL:N	2.63	0.47
3:J:677:TRP:NE1	3:J:902:MET:HE1	2.30	0.47
3:K:344:MET:HE3	3:K:357:VAL:O	2.15	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
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: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:O:426:THR:N	3:P:267:SER:O	2.39	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
3:Q:924:VAL:CG1	3:Q:925:VAL:N	2.79	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: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:H:428:VAL:CG1	3:H:429:LYS:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:56:THR:HG22	3:I:57:THR:N	2.30	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:N:664:ILE:HD11	3:N:902:MET:HE2	1.97	0.46
3:O:344:MET:HE3	3:O:357:VAL:O	2.15	0.46
3:P:5:MET:O	3:P:7:PRO:HD2	2.15	0.46
3:Q:864:LEU:HD12	3:Q:864:LEU:HA	1.70	0.46
1:A:295:SER:CB	1:A:377:PRO:HG2	2.46	0.46
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:B:289:VAL:HG13	1:B:290:ASP:N	2.30	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:56:THR:HG22	3:F:57:THR:N	2.30	0.46
3:F:428:VAL:CG1	3:F:429:LYS:N	2.78	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: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: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:428:VAL:CG1	3:K:429:LYS:N	2.79	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:N:56:THR:CG2	3:N:57:THR:N	2.79	0.46
3:N:677:TRP:NE1	3:N:902:MET:HE1	2.30	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:916:TYR:CE1	3:P:918:LEU:CD2	2.99	0.46
3:Q:134:TRP:HB3	3:Q:229:MET:HE3	1.97	0.46
3:Q:916:TYR:CE1	3:Q:918:LEU:CD2	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:102:SER:O	1:B:103:PRO:C	2.53	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:691:GLY:O	3:H:692:SER:HB3	2.16	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
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:102:SER:O	1:A:103:PRO:C	2.52	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:A:487:ARG:HH21	1:B:234:GLU:CD	2.18	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
3:F:134:TRP:HB3	3:F:229:MET:HE3	1.98	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:378:VAL:C	1:B:380:LYS:H	2.19	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:691:GLY:O	3:F:692:SER:HB3	2.16	0.46
3:F:782:ILE:HD11	3:H:383:PHE:HB2	1.97	0.46
3:H:183:ILE:HD13	3:H:219:ALA:HB2	1.98	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:K:924:VAL:CG1	3:K:925:VAL:N	2.79	0.46
3:L:134:TRP:HB3	3:L:229:MET:HE3	1.96	0.46
3:M:344:MET:HE3	3:M:357:VAL:O	2.16	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:134:TRP:HB3	3:N:229:MET:HE3	1.96	0.46
3:N:428:VAL:CG1	3:N:429:LYS:N	2.79	0.46
3:N:675:ARG:NH1	3:N:921:VAL:N	2.63	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
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:A:476:TYR:HH	1:A:478:ASP:CG	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:L:56:THR:HG22	3:L:57:THR:N	2.30	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
3:P:177:ASN:HA	3:P:217:HIS:CG	2.51	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:102:SER:O	1:D:103:PRO:C	2.52	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: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: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:A:434:SER:HG	1:E:128:HIS:CE1	2.34	0.46
1:A:504:ILE:C	1:A:506:ALA:H	2.20	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:479:GLN:HA	1:B:479:GLN:OE1	2.16	0.46
1:E:78:ASP:HB2	1:E:82:LEU:HD12	1.97	0.46
1:E:102:SER:O	1:E:103:PRO:C	2.52	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
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: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: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
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
1:E:504:ILE:C	1:E:506:ALA:H	2.20	0.46
3:F:177:ASN:HA	3:F:217:HIS:CG	2.51	0.46
3:F:677:TRP:NE1	3:F:902:MET:HE2	2.31	0.46
3:H:374:ASP:OD2	3:H:789:ARG:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:428:VAL:CG1	3:I:429:LYS:N	2.78	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: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
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:691:GLY:O	3:O:692:SER:HB3	2.16	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:B:504:ILE:C	1:B:506:ALA:H	2.20	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: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: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:Q:691:GLY:O	3:Q:692:SER:HB3	2.16	0.45
1:A:237:HIS:HE1	1:A:426:CYS:O	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:100:ASP:CG	1:E:452:ARG:HH12	2.19	0.45
1:D:231:TYR:CD1	1:D:503:GLN:HB3	2.51	0.45
1:D:378:VAL:C	1:D:380:LYS:H	2.19	0.45
1:E:179:MET:HE3	1:E:487:ARG:NH2	2.32	0.45
1:E:231:TYR:CD1	1:E:503:GLN:HB3	2.51	0.45
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:G:677:TRP:NE1	3:G:902:MET:HE1	2.30	0.45
3:J:344:MET:HE3	3:J:357:VAL:O	2.16	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
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: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:135:ASN:OD1	1:D:135:ASN:C	2.55	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:135:ASN:OD1	1:E:135:ASN:C	2.55	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:691:GLY:O	3:G:692:SER:HB3	2.16	0.45
3:G:786:TYR:CE2	3:G:787:LYS:HE3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:P:677:TRP:NE1	3:P:902:MET:HE1	2.31	0.45
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:B:387:LYS:HZ2	2:T:16:PRO:HB3	1.82	0.45
1:C:64:PHE:O	1:C:65:ASP:HB2	2.17	0.45
1:C:179:MET:HE2	1:C:487:ARG:NH2	2.31	0.45
1:C:504:ILE:C	1:C:506:ALA:H	2.20	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
1:E:547:ARG:O	1:E:548:ARG:HB2	2.16	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: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:89:ASP:O	3:O:90:ASN:HB2	2.17	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:P:344:MET:HE3	3:P:357:VAL:O	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:135:ASN:C	1:C:135:ASN:OD1	2.55	0.45
1:C:295:SER:CB	1:C:377:PRO:HG2	2.46	0.45
1:C:378:VAL:C	1:C:380:LYS:H	2.19	0.45
1:C:385:ASP:C	1:C:386:SER:O	2.52	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:385:ASP:C	1:D:386:SER:O	2.52	0.45
1:D:504:ILE:C	1:D:506:ALA:H	2.20	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: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:89:ASP:O	3:J:90:ASN:HB2	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:134:TRP:HB3	3:M:229:MET:HE3	1.98	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
3:Q:344:MET:HE3	3:Q:357:VAL:O	2.17	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:378:VAL:C	1:A:380:LYS:H	2.19	0.45
1:A:436:GLN:NE2	1:A:438:TYR:CE2	2.81	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
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:378:VAL:C	1:E:380:LYS:H	2.19	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: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:L:172:PRO:HG3	3:M:839:GLN:HB3	1.98	0.45
3:L:344:MET:HE3	3:L:357:VAL:O	2.16	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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
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: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
1:A:384:GLU:HA	1:A:389:ARG:O	2.17	0.45
1:B:135:ASN:C	1:B:135:ASN:OD1	2.55	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:A:387:LYS:HZ2	2:S:16:PRO:HB3	1.82	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:394:ILE:HG13	1:D:395:SER:N	2.33	0.45
1:D:487:ARG:NH2	1:E:234:GLU:OE1	2.50	0.45
1:E:250:PHE:O	1:E:252:HIS:N	2.49	0.45
3:G:330:ASP:O	3:G:333:ILE:HG13	2.17	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: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:D:387:LYS:HZ2	2:V:16:PRO:HB3	1.82	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:428:VAL:HG13	3:J:429:LYS:N	2.32	0.44
3:J:574:LEU:HG	3:J:929:ARG:NE	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:521:ALA:HB2	3:Q:551:ASN:HB3	1.99	0.44
3:O:677:TRP:HE1	3:O:902:MET:HE2	1.83	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: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:C:179:MET:HE3	1:C:487:ARG:HH22	1.82	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:459:MET:HE2	3:H:459:MET:HG3	1.98	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: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: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: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:547:ARG:O	1:B:548:ARG:HB2	2.16	0.44
1:C:225:LEU:CD2	1:C:399:THR:HB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:F:459:MET:HE2	3:G:459:MET:HG3	1.99	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
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:HG3	3:I:795:ARG:O	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:D:448:PRO:HG2	1:D:462:VAL:O	2.17	0.44
1:E:384:GLU:HA	1:E:389:ARG:O	2.17	0.44
1:E:385:ASP:C	1:E:386:SER:O	2.52	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:677:TRP:HE1	3:M:902:MET:HE1	1.83	0.44
3:M:677:TRP:NE1	3:M:902:MET:HE1	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: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:135:ASN:C	1:A:135:ASN:OD1	2.55	0.44
1:A:207:GLY:HA3	1:A:246:CYS:SG	2.58	0.44
1:A:378:VAL:O	1:A:379:ILE:C	2.55	0.44
1:B:378:VAL:O	1:B:379:ILE:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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:M:222:VAL:CG2	3:M:223:LEU:N	2.81	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:677:TRP:HE1	3:Q:902:MET:HE1	1.83	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:C:378:VAL:O	1:C:379:ILE:C	2.55	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:202:LEU:N	1:D:202:LEU:HD23	2.33	0.44
1:D:378:VAL:O	1:D:379:ILE:C	2.55	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:F:459:MET:HG3	3:H:459:MET:HE2	2.00	0.44
3:F:677:TRP:HE1	3:F:902:MET:HE2	1.83	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:H:664:ILE:HD11	3:H:902:MET:HE3	1.98	0.44
3:J:134:TRP:HB3	3:J:229:MET:HE3	1.99	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: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:677:TRP:NE1	3:O:902:MET:HE2	2.32	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:398:ARG:HD3	3:L:533:PRO:HB3	2.00	0.44
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:A:383:THR:O	1:A:383:THR:CG2	2.65	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:460:PHE:O	1:D:548:ARG:NH2	2.50	0.44
1:E:378:VAL:O	1:E:379:ILE:C	2.55	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: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: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:J:352:SER:C	3:J:354:LEU:H	2.21	0.44
3:K:398:ARG:HD3	3:K:533:PRO:HB3	2.00	0.44
3:K:672:ALA:O	3:K:673:ALA:HB3	2.18	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:M:352:SER:C	3:M:354:LEU:H	2.21	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:F:587:ASP:O	3:F:591:VAL:HG13	2.18	0.44
3:G:428:VAL:HG13	3:G:429:LYS:N	2.32	0.44
3:H:486:TYR:O	3:H:507:VAL:HG13	2.17	0.44
3:I:677:TRP:HE1	3:I:902:MET:HE1	1.83	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: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:HG3	3:M:795:ARG:O	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:HG23	1:A:69:VAL:O	2.18	0.43
1:A:424:LEU:HD21	1:E:553:TYR:CZ	2.54	0.43
1:B:131:MET:HA	1:B:132:PRO:HD3	1.80	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:J:587:ASP:O	3:J:591:VAL:HG13	2.18	0.43
3:K:677:TRP:HE1	3:K:902:MET:HE1	1.83	0.43
3:L:730:TRP:CG	3:L:731:PRO:HA	2.52	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
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: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
3:F:730:TRP:CG	3:F:731:PRO:HA	2.52	0.43
3:G:730:TRP:CG	3:G:731:PRO:HA	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:L:677:TRP:HE1	3:L:902:MET:HE1	1.83	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: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
3:Q:677:TRP:NE1	3:Q:902:MET:HE1	2.33	0.43
1:B:69:VAL:O	1:B:69:VAL:HG23	2.18	0.43
1:C:387:LYS:HZ2	2:U:16:PRO:HB3	1.82	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:244:PRO:HA	1:E:275:TYR:CE2	2.53	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:677:TRP:NE1	3:I:902:MET:HE1	2.32	0.43
3:I:678:ALA:HB3	3:I:918:LEU:HB2	2.00	0.43
3:J:636:ASP:HA	3:J:639:ASP:OD1	2.18	0.43
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:O:383:PHE:HB3	3:O:388:GLN:HB3	2.00	0.43
3:P:677:TRP:HE1	3:P:902:MET:HE1	1.83	0.43
3:P:755:VAL:CG2	3:P:756:ALA:H	2.29	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: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: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:C:192:TYR:CD1	1:C:196:GLY:HA3	2.54	0.43
1:D:244:PRO:HA	1:D:275:TYR:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:436:GLN:NE2	1:D:438:TYR:CE2	2.81	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:H:352:SER:C	3:H:354:LEU:H	2.22	0.43
3:I:519:LEU:HD12	3:K:119:ALA:HB2	2.00	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: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:N:57:THR:CG2	3:N:59:ARG:NH1	2.79	0.43
3:O:283:VAL:CG1	3:O:284:VAL:N	2.81	0.43
3:O:459:MET:HE2	3:P:459:MET:HG3	2.01	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
1:A:202:LEU:N	1:A:202:LEU:HD23	2.33	0.43
1:A:385:ASP:C	1:A:386:SER:O	2.52	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
3:F:74:ASP:OD1	3:F:586:LYS:NZ	2.30	0.43
3:F:409:LEU:HD13	3:H:469:ARG:NH1	2.33	0.43
3:F:795:ARG:HG3	3:F:795:ARG:O	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: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:352:SER:C	3:L:354:LEU:H	2.22	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:N:352:SER:C	3:N:354:LEU:H	2.21	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
2:W:15:TYR:CD2	2:W:15:TYR:C	2.92	0.43
3:F:344:MET:HE3	3:F:357:VAL:O	2.19	0.43
3:G:548:LEU:HD12	3:G:548:LEU:HA	1.76	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:390:VAL:O	3:O:541:GLY:HA3	2.19	0.43
3:Q:352:SER:C	3:Q:354:LEU:H	2.22	0.43
3:Q:795:ARG:O	3:Q:795:ARG:HG3	2.18	0.43
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:B:385:ASP:C	1:B:386:SER:O	2.52	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
2:V:15:TYR:CD2	2:V:15:TYR:C	2.92	0.43
3:F:352:SER:C	3:F:354:LEU:H	2.22	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:352:SER:C	3:K:354:LEU:H	2.22	0.43
3:K:587:ASP:O	3:K:591:VAL:HG13	2.18	0.43
3:M:526:ASP:OD1	3:M:862:LYS:NZ	2.32	0.43
3:N:677:TRP:HE1	3:N:902:MET:HE1	1.84	0.43
3:O:636:ASP:HA	3:O:639:ASP:OD1	2.18	0.43
3:P:134:TRP:HB3	3:P:229:MET:HE3	2.00	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:394:ILE:HG13	1:A:395:SER:N	2.32	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:330:ASP:O	3:J:333:ILE:HG13	2.17	0.43
3:J:677:TRP:HE1	3:J:902:MET:HE1	1.83	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
3:O:678:ALA:HB3	3:O:918:LEU:HB2	2.00	0.43
3:Q:57:THR:CG2	3:Q:59:ARG:NH1	2.79	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: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:E:95:VAL:O	1:E:95:VAL:HG12	2.19	0.43
1:E:387:LYS:HZ2	2:W:16:PRO:HB3	1.83	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: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:K:677:TRP:NE1	3:K:902:MET:HE1	2.34	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:283:VAL:CG1	3:P:284:VAL:N	2.81	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:132:PRO:CD	1:C:553:TYR:CE2	3.02	0.42
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: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:G:352:SER:C	3:G:354:LEU:H	2.21	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:352:SER:C	3:I:354:LEU:H	2.22	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: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:HG13	1:E:515:THR:HB	2.01	0.42
3:G:283:VAL:CG1	3:G:284:VAL:N	2.81	0.42
3:G:677:TRP:HE1	3:G:902:MET:HE1	1.83	0.42
3:H:561:VAL:HA	3:H:562:PRO:HD3	1.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:244:PRO:HA	1:C:275:TYR:CE2	2.53	0.42
1:D:95:VAL:O	1:D:95:VAL:HG12	2.19	0.42
1:D:181:ILE:O	1:D:184:MET:HB2	2.19	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: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: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:352:SER:C	3:O:354:LEU:H	2.22	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
3:P:352:SER:C	3:P:354:LEU:H	2.21	0.42
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:U:15:TYR:CD2	2:U:15:TYR:C	2.92	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:599:ASP:OD1	3:G:601:ARG:HG3	2.19	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: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: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:495:VAL:HG21	1:B:232:THR:HB	2.00	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
1:B:243:LEU:CG	1:B:403:TYR:CE2	3.03	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:D:58:SER:OG	1:D:59:GLU:N	2.52	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:HG12	3:O:250:VAL:O	2.20	0.42
3:P:390:VAL:O	3:P:541:GLY:HA3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:373:LEU:HB3	3:Q:379:ARG:HD3	2.01	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:D:117:SER:HA	1:D:568:SER:HA	2.02	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:T:15:TYR:CD2	2:T:15:TYR:C	2.92	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: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:L:267:SER:O	3:N:426:THR:N	2.39	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:N:835:MET:HE3	3:N:836:ARG:HH21	1.84	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: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: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:F:750:GLY:O	3:F:751:GLU:C	2.58	0.42
3:G:17:GLN:HB3	3:G:21:GLU:HB2	2.01	0.42
3:H:250:VAL:O	3:H:250:VAL:HG12	2.20	0.42
3:I:373:LEU:HB3	3:I:379:ARG:HD3	2.01	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:N:750:GLY:O	3:N:751:GLU:C	2.58	0.42
3:P:131:PRO:HB3	3:P:169:GLY:HA2	2.02	0.42
3:P:750:GLY:O	3:P:751:GLU:C	2.58	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:A:452:ARG:HH12	1:E:100:ASP:CG	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:G:792:SER:O	3:G:796:ASN:ND2	2.46	0.42
3:H:304:THR:C	3:H:306:LYS:H	2.23	0.42
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:J:755:VAL:CG2	3:J:756:ALA:N	2.83	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:596:LEU:HD12	3:M:596:LEU:HA	1.68	0.42
1:A:73:ASP:OD1	1:A:73:ASP:N	2.53	0.42
1:C:87:ASP:O	1:C:89:SER:N	2.46	0.42
1:C:282:ASN:HA	1:C:404:ARG:HA	2.02	0.42
2:S:15:TYR:CD2	2:S:15:TYR:C	2.92	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:750:GLY:O	3:O:751:GLU:C	2.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:459:MET:CE	3:G:459:MET:HG3	2.50	0.42
3:G:459:MET:CE	3:H:459:MET:HG3	2.50	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:390:VAL:O	3:L:541:GLY:HA3	2.19	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: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: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: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:304:THR:C	3:J:306:LYS:H	2.24	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:304:THR:C	3:N:306:LYS:H	2.24	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
3:P:507:VAL:HG23	3:P:508:VAL:N	2.35	0.41
3:Q:250:VAL:O	3:Q:250:VAL:HG12	2.20	0.41
1:A:58:SER:OG	1:A:59:GLU:N	2.52	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:493:THR:HG21	1:E:495:VAL:HG22	2.02	0.41
3:G:361:GLN:NE2	3:G:691:GLY:HA2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:250:VAL:O	3:I:250:VAL:HG12	2.20	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:304:THR:C	3:K:306:LYS:H	2.24	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:750:GLY:O	3:L:751:GLU:C	2.58	0.41
3:L:819:LEU:HD23	3:L:819:LEU:HA	1.86	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:459:MET:HE2	3:Q:459:MET:HG3	2.02	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: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:117:SER:HA	1:B:568:SER:HA	2.02	0.41
1:D:69:VAL:HG22	1:D:561:VAL:HB	2.00	0.41
1:D:476:TYR:HH	1:D:478:ASP:CG	2.23	0.41
1:E:177:GLU:HG3	1:E:178:THR:H	1.82	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:677:TRP:HE1	3:H:902:MET:HE2	1.84	0.41
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:304:THR:C	3:I:306:LYS:H	2.24	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:135:ASN:H	1:A:140:THR:HG1	1.67	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:137:PHE:HE1	1:B:549:ARG:NE	2.18	0.41
1:C:96:ILE:HA	1:C:96:ILE:HD13	1.82	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
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:G:750:GLY:O	3:G:751:GLU:C	2.58	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
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
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:D:171:PRO:O	1:D:172:GLU:C	2.59	0.41
1:D:217:LEU:HA	1:D:217:LEU:HD23	1.74	0.41
1:E:512:THR:O	1:E:513:ILE:CB	2.63	0.41
3:H:750:GLY:O	3:H:751:GLU:C	2.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:304:THR:C	3:O:306:LYS:H	2.24	0.41
3:O:373:LEU:HD23	3:O:373:LEU:HA	1.77	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:171:PRO:O	1:B:172:GLU:C	2.59	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:128:HIS:CE1	1:E:434:SER:HG	2.38	0.41
3:G:134:TRP:HB3	3:G:229:MET:HE3	1.99	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: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:677:TRP:NE1	3:L:902:MET:HE1	2.35	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: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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:L:106:LEU:CD1	3:L:592:LEU:HD11	2.51	0.41
3:M:304:THR:C	3:M:306:LYS:H	2.24	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
3:Q:304:THR:C	3:Q:306:LYS:H	2.24	0.41
3:Q:361:GLN:NE2	3:Q:691:GLY:HA2	2.35	0.41
3:Q:690:LEU:C	3:Q:692:SER:H	2.24	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: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: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: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
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: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:J:445:PHE:CE2	3:K:165:THR:CG2	3.04	0.41
3:K:354:LEU:CD1	3:K:355:ASN:N	2.84	0.41
3:K:750:GLY:O	3:K:751:GLU:C	2.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:646:LEU:HD12	3:N:646:LEU:HA	1.85	0.41
3:O:459:MET:HG3	3:Q:459:MET:HE2	2.03	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
1:A:137:PHE:HE1	1:A:549:ARG:NE	2.18	0.41
1:A:445:MET:HE3	1:A:529:LEU:HB2	2.03	0.41
1:A:460:PHE:O	1:A:548:ARG:NH2	2.50	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: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:171:PRO:O	1:C:172:GLU:C	2.59	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: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
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:250:VAL:O	3:G:250:VAL:HG12	2.20	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: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:J:750:GLY:O	3:J:751:GLU:C	2.58	0.41
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: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: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: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:750:GLY:O	3:Q:751:GLU:C	2.58	0.41
3:Q:755:VAL:CG2	3:Q:756:ALA:N	2.83	0.41
1:A:171:PRO:O	1:A:172:GLU:C	2.59	0.41
1:A:179:MET:CE	1:A:487:ARG:HH22	2.34	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:243:LEU:O	1:B:244:PRO:C	2.59	0.41
1:B:441:LEU:O	1:B:443:ASP:N	2.54	0.41
1:C:243:LEU:O	1:C:244:PRO:C	2.59	0.41
1:E:171:PRO:O	1:E:172:GLU:C	2.59	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:N:354:LEU:HD13	3:N:355:ASN:N	2.36	0.41
3:N:690:LEU:C	3:N:692:SER:H	2.24	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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: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:750:GLY:O	3:I:751:GLU:C	2.58	0.40
3:I:921:VAL:HG23	3:I:922:PHE:N	2.35	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:P:304:THR:C	3:P:306:LYS:H	2.24	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
1:D:224:GLY:O	1:D:399:THR:HB	2.21	0.40
1:D:243:LEU:O	1:D:244:PRO:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:282:ASN:HA	1:D:404:ARG:HA	2.02	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:304:THR:C	3:G:306:LYS:H	2.24	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:523:TRP:CE2	3:I:862:LYS:HE2	2.56	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:302:MET:HE3	3:O:302:MET:CA	2.51	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: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
3:K:373:LEU:HD23	3:K:373:LEU:HA	1.77	0.40
3:K:507:VAL:HG23	3:K:508:VAL:N	2.35	0.40
3:K:690:LEU:C	3:K:692:SER:H	2.24	0.40
3:L:469:ARG:NH2	3:L:828:VAL:CG2	2.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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: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: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
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:459:MET:HE2	3:J:459:MET:HG3	2.02	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:J:459:MET:CE	3:K:459:MET:HG3	2.50	0.40
3:K:248:ILE:HD12	3:K:290:VAL:CA	2.52	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: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:278:LEU:C	1:C:279:GLU:O	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:481:VAL:O	1:C:481:VAL:CG1	2.66	0.40
1:D:250:PHE:O	1:D:251:THR:C	2.60	0.40
1:D:493:THR:HG21	1:D:495:VAL:HG22	2.03	0.40
1:E:197:ARG:CG	1:E:198:GLN:N	2.85	0.40
1:E:278:LEU:C	1:E:279:GLU:O	2.60	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:C	3:G:692:SER:H	2.25	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:196:ASP:OD1	3:H:198:THR:OG1	2.32	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:690:LEU:C	3:I:692:SER:H	2.25	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: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
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: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	8
1	B	436/523 (83%)	321 (74%)	69 (16%)	46 (11%)	0	8
1	C	436/523 (83%)	321 (74%)	69 (16%)	46 (11%)	0	8
1	D	436/523 (83%)	321 (74%)	69 (16%)	46 (11%)	0	8
1	E	436/523 (83%)	321 (74%)	69 (16%)	46 (11%)	0	8
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%)	22	63
3	G	870/951 (92%)	807 (93%)	57 (7%)	6 (1%)	22	63
3	H	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	22	63
3	I	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	22	63
3	J	870/951 (92%)	806 (93%)	58 (7%)	6 (1%)	22	63
3	K	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	22	63
3	L	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	22	63
3	M	870/951 (92%)	807 (93%)	57 (7%)	6 (1%)	22	63
3	N	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	22	63
3	O	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	22	63
3	P	870/951 (92%)	807 (93%)	57 (7%)	6 (1%)	22	63
3	Q	870/951 (92%)	808 (93%)	56 (6%)	6 (1%)	22	63
All	All	12660/14077 (90%)	11321 (89%)	1037 (8%)	302 (2%)	9	33

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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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%)	369 (92%)	30 (8%)	13	38
1	B	399/451 (88%)	370 (93%)	29 (7%)	14	39
1	C	399/451 (88%)	369 (92%)	30 (8%)	13	38
1	D	399/451 (88%)	370 (93%)	29 (7%)	14	39
1	E	399/451 (88%)	370 (93%)	29 (7%)	14	39
2	S	10/10 (100%)	9 (90%)	1 (10%)	7	26
2	T	10/10 (100%)	9 (90%)	1 (10%)	7	26
2	U	10/10 (100%)	9 (90%)	1 (10%)	7	26
2	V	10/10 (100%)	9 (90%)	1 (10%)	7	26
2	W	10/10 (100%)	9 (90%)	1 (10%)	7	26
3	F	727/828 (88%)	647 (89%)	80 (11%)	6	22
3	G	727/828 (88%)	649 (89%)	78 (11%)	6	23
3	H	727/828 (88%)	647 (89%)	80 (11%)	6	22
3	I	727/828 (88%)	647 (89%)	80 (11%)	6	22
3	J	727/828 (88%)	648 (89%)	79 (11%)	6	23
3	K	727/828 (88%)	647 (89%)	80 (11%)	6	22
3	L	727/828 (88%)	647 (89%)	80 (11%)	6	22
3	M	727/828 (88%)	648 (89%)	79 (11%)	6	23
3	N	727/828 (88%)	647 (89%)	80 (11%)	6	22
3	O	727/828 (88%)	647 (89%)	80 (11%)	6	22

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	P	727/828 (88%)	648 (89%)	79 (11%)	6	23
3	Q	727/828 (88%)	646 (89%)	81 (11%)	6	22
All	All	10769/12241 (88%)	9661 (90%)	1108 (10%)	11	25

All (1108) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	83	ASN
1	A	98	ASN
1	A	107	SER
1	A	124	LYS
1	A	130	ASN
1	A	133	ASN
1	A	168	PHE
1	A	199	ASN
1	A	202	LEU
1	A	214	ASN
1	A	249	ASP
1	A	256	SER
1	A	271	PHE
1	A	276	ASP
1	A	279	GLU
1	A	401	THR
1	A	404	ARG
1	A	411	ASN
1	A	419	ILE
1	A	424	LEU
1	A	429	ASP
1	A	436	GLN
1	A	440	SER
1	A	450	THR
1	A	459	ASN
1	A	478	ASP
1	A	484	GLN
1	A	512	THR
1	A	545	ASP
1	A	562	SER
1	B	83	ASN
1	B	98	ASN
1	B	107	SER
1	B	124	LYS

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Mol	Chain	Res	Type
1	B	130	ASN
1	B	133	ASN
1	B	168	PHE
1	B	199	ASN
1	B	202	LEU
1	B	214	ASN
1	B	249	ASP
1	B	256	SER
1	B	271	PHE
1	B	276	ASP
1	B	401	THR
1	B	404	ARG
1	B	411	ASN
1	B	419	ILE
1	B	424	LEU
1	B	429	ASP
1	B	436	GLN
1	B	440	SER
1	B	450	THR
1	B	459	ASN
1	B	478	ASP
1	B	484	GLN
1	B	512	THR
1	B	545	ASP
1	B	562	SER
1	C	83	ASN
1	C	98	ASN
1	C	107	SER
1	C	124	LYS
1	C	130	ASN
1	C	133	ASN
1	C	168	PHE
1	C	199	ASN
1	C	202	LEU
1	C	214	ASN
1	C	249	ASP
1	C	256	SER
1	C	271	PHE
1	C	276	ASP
1	C	279	GLU
1	C	401	THR
1	C	404	ARG

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Mol	Chain	Res	Type
1	C	411	ASN
1	C	419	ILE
1	C	424	LEU
1	C	429	ASP
1	C	436	GLN
1	C	440	SER
1	C	450	THR
1	C	459	ASN
1	C	478	ASP
1	C	484	GLN
1	C	512	THR
1	C	545	ASP
1	C	562	SER
1	D	83	ASN
1	D	98	ASN
1	D	107	SER
1	D	124	LYS
1	D	130	ASN
1	D	133	ASN
1	D	168	PHE
1	D	199	ASN
1	D	202	LEU
1	D	214	ASN
1	D	249	ASP
1	D	256	SER
1	D	271	PHE
1	D	276	ASP
1	D	401	THR
1	D	404	ARG
1	D	411	ASN
1	D	419	ILE
1	D	424	LEU
1	D	429	ASP
1	D	436	GLN
1	D	440	SER
1	D	450	THR
1	D	459	ASN
1	D	478	ASP
1	D	484	GLN
1	D	512	THR
1	D	545	ASP
1	D	562	SER

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Mol	Chain	Res	Type
1	E	83	ASN
1	E	98	ASN
1	E	107	SER
1	E	124	LYS
1	E	130	ASN
1	E	133	ASN
1	E	168	PHE
1	E	199	ASN
1	E	202	LEU
1	E	214	ASN
1	E	249	ASP
1	E	256	SER
1	E	271	PHE
1	E	276	ASP
1	E	401	THR
1	E	404	ARG
1	E	411	ASN
1	E	419	ILE
1	E	424	LEU
1	E	429	ASP
1	E	436	GLN
1	E	440	SER
1	E	450	THR
1	E	459	ASN
1	E	478	ASP
1	E	484	GLN
1	E	512	THR
1	E	545	ASP
1	E	562	SER
2	S	15	TYR
2	T	15	TYR
2	U	15	TYR
2	V	15	TYR
2	W	15	TYR
3	F	6	MET
3	F	10	SER
3	F	39	SER
3	F	43	LYS
3	F	45	ARG
3	F	57	THR
3	F	59	ARG
3	F	66	ARG

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Mol	Chain	Res	Type
3	F	75	THR
3	F	80	LYS
3	F	106	LEU
3	F	118	THR
3	F	167	VAL
3	F	204	GLN
3	F	205	ILE
3	F	221	ARG
3	F	225	LYS
3	F	226	THR
3	F	248	ILE
3	F	263	MET
3	F	268	THR
3	F	284	VAL
3	F	293	GLU
3	F	304	THR
3	F	310	SER
3	F	339	ASN
3	F	354	LEU
3	F	376	ILE
3	F	379	ARG
3	F	419	VAL
3	F	428	VAL
3	F	447	ASP
3	F	469	ARG
3	F	483	LYS
3	F	489	SER
3	F	499	THR
3	F	507	VAL
3	F	514	ASP
3	F	517	ILE
3	F	548	LEU
3	F	577	SER
3	F	582	TRP
3	F	591	VAL
3	F	596	LEU
3	F	601	ARG
3	F	627	SER
3	F	636	ASP
3	F	637	THR
3	F	643	ASN
3	F	647	SER

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Mol	Chain	Res	Type
3	F	651	MET
3	F	660	THR
3	F	665	SER
3	F	666	ILE
3	F	668	SER
3	F	680	THR
3	F	682	LEU
3	F	718	LYS
3	F	723	THR
3	F	746	ARG
3	F	773	TYR
3	F	785	SER
3	F	789	ARG
3	F	795	ARG
3	F	805	VAL
3	F	808	THR
3	F	818	ILE
3	F	836	ARG
3	F	837	GLU
3	F	853	THR
3	F	858	ILE
3	F	864	LEU
3	F	867	ARG
3	F	891	LEU
3	F	892	LEU
3	F	918	LEU
3	F	926	ARG
3	F	929	ARG
3	F	935	ILE
3	F	942	THR
3	G	6	MET
3	G	10	SER
3	G	39	SER
3	G	43	LYS
3	G	45	ARG
3	G	57	THR
3	G	59	ARG
3	G	66	ARG
3	G	75	THR
3	G	80	LYS
3	G	106	LEU
3	G	118	THR

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Mol	Chain	Res	Type
3	G	167	VAL
3	G	204	GLN
3	G	205	ILE
3	G	221	ARG
3	G	226	THR
3	G	248	ILE
3	G	263	MET
3	G	284	VAL
3	G	293	GLU
3	G	304	THR
3	G	310	SER
3	G	339	ASN
3	G	354	LEU
3	G	376	ILE
3	G	379	ARG
3	G	419	VAL
3	G	428	VAL
3	G	447	ASP
3	G	469	ARG
3	G	483	LYS
3	G	489	SER
3	G	499	THR
3	G	507	VAL
3	G	514	ASP
3	G	517	ILE
3	G	548	LEU
3	G	577	SER
3	G	582	TRP
3	G	591	VAL
3	G	596	LEU
3	G	601	ARG
3	G	627	SER
3	G	636	ASP
3	G	637	THR
3	G	643	ASN
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

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Mol	Chain	Res	Type
3	G	682	LEU
3	G	718	LYS
3	G	723	THR
3	G	746	ARG
3	G	773	TYR
3	G	785	SER
3	G	789	ARG
3	G	795	ARG
3	G	805	VAL
3	G	808	THR
3	G	818	ILE
3	G	836	ARG
3	G	837	GLU
3	G	853	THR
3	G	858	ILE
3	G	864	LEU
3	G	867	ARG
3	G	891	LEU
3	G	892	LEU
3	G	918	LEU
3	G	926	ARG
3	G	929	ARG
3	G	935	ILE
3	G	942	THR
3	H	6	MET
3	H	10	SER
3	H	39	SER
3	H	43	LYS
3	H	45	ARG
3	H	57	THR
3	H	59	ARG
3	H	66	ARG
3	H	75	THR
3	H	80	LYS
3	H	106	LEU
3	H	118	THR
3	H	167	VAL
3	H	204	GLN
3	H	205	ILE
3	H	221	ARG
3	H	226	THR
3	H	248	ILE

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Mol	Chain	Res	Type
3	H	263	MET
3	H	268	THR
3	H	284	VAL
3	H	293	GLU
3	H	304	THR
3	H	310	SER
3	H	339	ASN
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	499	THR
3	H	507	VAL
3	H	514	ASP
3	H	517	ILE
3	H	548	LEU
3	H	577	SER
3	H	582	TRP
3	H	591	VAL
3	H	596	LEU
3	H	601	ARG
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	723	THR
3	H	746	ARG

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Mol	Chain	Res	Type
3	H	773	TYR
3	H	785	SER
3	H	789	ARG
3	H	795	ARG
3	H	805	VAL
3	H	808	THR
3	H	818	ILE
3	H	836	ARG
3	H	837	GLU
3	H	853	THR
3	H	858	ILE
3	H	864	LEU
3	H	867	ARG
3	H	891	LEU
3	H	892	LEU
3	H	918	LEU
3	H	926	ARG
3	H	929	ARG
3	H	935	ILE
3	H	942	THR
3	I	6	MET
3	I	10	SER
3	I	39	SER
3	I	43	LYS
3	I	45	ARG
3	I	57	THR
3	I	59	ARG
3	I	66	ARG
3	I	75	THR
3	I	80	LYS
3	I	106	LEU
3	I	118	THR
3	I	167	VAL
3	I	204	GLN
3	I	205	ILE
3	I	221	ARG
3	I	225	LYS
3	I	226	THR
3	I	248	ILE
3	I	263	MET
3	I	268	THR
3	I	284	VAL

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Mol	Chain	Res	Type
3	I	293	GLU
3	I	304	THR
3	I	310	SER
3	I	339	ASN
3	I	354	LEU
3	I	376	ILE
3	I	379	ARG
3	I	419	VAL
3	I	428	VAL
3	I	447	ASP
3	I	469	ARG
3	I	483	LYS
3	I	489	SER
3	I	499	THR
3	I	507	VAL
3	I	514	ASP
3	I	517	ILE
3	I	548	LEU
3	I	577	SER
3	I	582	TRP
3	I	591	VAL
3	I	596	LEU
3	I	601	ARG
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	723	THR
3	I	746	ARG
3	I	773	TYR
3	I	785	SER
3	I	789	ARG
3	I	795	ARG

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Mol	Chain	Res	Type
3	I	805	VAL
3	I	808	THR
3	I	818	ILE
3	I	836	ARG
3	I	837	GLU
3	I	853	THR
3	I	858	ILE
3	I	864	LEU
3	I	867	ARG
3	I	891	LEU
3	I	892	LEU
3	I	918	LEU
3	I	926	ARG
3	I	929	ARG
3	I	935	ILE
3	I	942	THR
3	J	6	MET
3	J	10	SER
3	J	39	SER
3	J	43	LYS
3	J	45	ARG
3	J	57	THR
3	J	59	ARG
3	J	66	ARG
3	J	75	THR
3	J	80	LYS
3	J	106	LEU
3	J	118	THR
3	J	167	VAL
3	J	204	GLN
3	J	205	ILE
3	J	221	ARG
3	J	225	LYS
3	J	226	THR
3	J	248	ILE
3	J	263	MET
3	J	284	VAL
3	J	293	GLU
3	J	304	THR
3	J	310	SER
3	J	339	ASN
3	J	354	LEU

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Mol	Chain	Res	Type
3	J	376	ILE
3	J	379	ARG
3	J	419	VAL
3	J	428	VAL
3	J	447	ASP
3	J	469	ARG
3	J	483	LYS
3	J	489	SER
3	J	499	THR
3	J	507	VAL
3	J	514	ASP
3	J	517	ILE
3	J	548	LEU
3	J	577	SER
3	J	582	TRP
3	J	591	VAL
3	J	596	LEU
3	J	601	ARG
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	723	THR
3	J	746	ARG
3	J	773	TYR
3	J	785	SER
3	J	789	ARG
3	J	795	ARG
3	J	805	VAL
3	J	808	THR
3	J	818	ILE
3	J	836	ARG
3	J	837	GLU

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Mol	Chain	Res	Type
3	J	853	THR
3	J	858	ILE
3	J	864	LEU
3	J	867	ARG
3	J	891	LEU
3	J	892	LEU
3	J	918	LEU
3	J	926	ARG
3	J	929	ARG
3	J	935	ILE
3	J	942	THR
3	K	6	MET
3	K	10	SER
3	K	39	SER
3	K	43	LYS
3	K	45	ARG
3	K	57	THR
3	K	59	ARG
3	K	66	ARG
3	K	75	THR
3	K	80	LYS
3	K	106	LEU
3	K	118	THR
3	K	167	VAL
3	K	204	GLN
3	K	205	ILE
3	K	221	ARG
3	K	226	THR
3	K	248	ILE
3	K	263	MET
3	K	268	THR
3	K	284	VAL
3	K	293	GLU
3	K	304	THR
3	K	310	SER
3	K	339	ASN
3	K	354	LEU
3	K	376	ILE
3	K	379	ARG
3	K	419	VAL
3	K	424	THR
3	K	428	VAL

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Mol	Chain	Res	Type
3	K	447	ASP
3	K	469	ARG
3	K	483	LYS
3	K	489	SER
3	K	499	THR
3	K	507	VAL
3	K	514	ASP
3	K	517	ILE
3	K	548	LEU
3	K	577	SER
3	K	582	TRP
3	K	591	VAL
3	K	596	LEU
3	K	601	ARG
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	723	THR
3	K	746	ARG
3	K	773	TYR
3	K	785	SER
3	K	789	ARG
3	K	795	ARG
3	K	805	VAL
3	K	808	THR
3	K	818	ILE
3	K	836	ARG
3	K	837	GLU
3	K	853	THR
3	K	858	ILE
3	K	864	LEU
3	K	867	ARG

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Mol	Chain	Res	Type
3	K	891	LEU
3	K	892	LEU
3	K	918	LEU
3	K	926	ARG
3	K	929	ARG
3	K	935	ILE
3	K	942	THR
3	L	6	MET
3	L	10	SER
3	L	39	SER
3	L	43	LYS
3	L	45	ARG
3	L	57	THR
3	L	59	ARG
3	L	66	ARG
3	L	75	THR
3	L	80	LYS
3	L	106	LEU
3	L	118	THR
3	L	167	VAL
3	L	204	GLN
3	L	205	ILE
3	L	221	ARG
3	L	225	LYS
3	L	226	THR
3	L	248	ILE
3	L	263	MET
3	L	268	THR
3	L	284	VAL
3	L	293	GLU
3	L	304	THR
3	L	310	SER
3	L	339	ASN
3	L	354	LEU
3	L	376	ILE
3	L	379	ARG
3	L	419	VAL
3	L	428	VAL
3	L	447	ASP
3	L	469	ARG
3	L	483	LYS
3	L	489	SER

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Mol	Chain	Res	Type
3	L	499	THR
3	L	507	VAL
3	L	514	ASP
3	L	517	ILE
3	L	548	LEU
3	L	577	SER
3	L	582	TRP
3	L	591	VAL
3	L	596	LEU
3	L	601	ARG
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
3	L	682	LEU
3	L	718	LYS
3	L	723	THR
3	L	746	ARG
3	L	773	TYR
3	L	785	SER
3	L	789	ARG
3	L	795	ARG
3	L	805	VAL
3	L	808	THR
3	L	818	ILE
3	L	836	ARG
3	L	837	GLU
3	L	853	THR
3	L	858	ILE
3	L	864	LEU
3	L	867	ARG
3	L	891	LEU
3	L	892	LEU
3	L	918	LEU
3	L	926	ARG

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Mol	Chain	Res	Type
3	L	929	ARG
3	L	935	ILE
3	L	942	THR
3	M	6	MET
3	M	10	SER
3	M	39	SER
3	M	43	LYS
3	M	45	ARG
3	M	57	THR
3	M	59	ARG
3	M	66	ARG
3	M	75	THR
3	M	80	LYS
3	M	106	LEU
3	M	118	THR
3	M	167	VAL
3	M	204	GLN
3	M	205	ILE
3	M	221	ARG
3	M	225	LYS
3	M	226	THR
3	M	248	ILE
3	M	263	MET
3	M	284	VAL
3	M	293	GLU
3	M	304	THR
3	M	310	SER
3	M	339	ASN
3	M	354	LEU
3	M	376	ILE
3	M	379	ARG
3	M	419	VAL
3	M	428	VAL
3	M	447	ASP
3	M	469	ARG
3	M	483	LYS
3	M	489	SER
3	M	499	THR
3	M	507	VAL
3	M	514	ASP
3	M	517	ILE
3	M	548	LEU

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Mol	Chain	Res	Type
3	M	577	SER
3	M	582	TRP
3	M	591	VAL
3	M	596	LEU
3	M	601	ARG
3	M	627	SER
3	M	636	ASP
3	M	637	THR
3	M	643	ASN
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	723	THR
3	M	746	ARG
3	M	773	TYR
3	M	785	SER
3	M	789	ARG
3	M	795	ARG
3	M	805	VAL
3	M	808	THR
3	M	818	ILE
3	M	836	ARG
3	M	837	GLU
3	M	853	THR
3	M	858	ILE
3	M	864	LEU
3	M	867	ARG
3	M	891	LEU
3	M	892	LEU
3	M	918	LEU
3	M	926	ARG
3	M	929	ARG
3	M	935	ILE
3	M	942	THR
3	N	6	MET
3	N	10	SER

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Mol	Chain	Res	Type
3	N	39	SER
3	N	43	LYS
3	N	45	ARG
3	N	57	THR
3	N	59	ARG
3	N	66	ARG
3	N	75	THR
3	N	80	LYS
3	N	106	LEU
3	N	118	THR
3	N	167	VAL
3	N	204	GLN
3	N	205	ILE
3	N	221	ARG
3	N	225	LYS
3	N	248	ILE
3	N	263	MET
3	N	268	THR
3	N	284	VAL
3	N	293	GLU
3	N	304	THR
3	N	310	SER
3	N	339	ASN
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	499	THR
3	N	507	VAL
3	N	514	ASP
3	N	517	ILE
3	N	548	LEU
3	N	577	SER
3	N	582	TRP
3	N	591	VAL
3	N	596	LEU

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Mol	Chain	Res	Type
3	N	601	ARG
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	723	THR
3	N	746	ARG
3	N	773	TYR
3	N	785	SER
3	N	789	ARG
3	N	795	ARG
3	N	805	VAL
3	N	808	THR
3	N	818	ILE
3	N	836	ARG
3	N	837	GLU
3	N	853	THR
3	N	858	ILE
3	N	864	LEU
3	N	867	ARG
3	N	891	LEU
3	N	892	LEU
3	N	918	LEU
3	N	926	ARG
3	N	929	ARG
3	N	935	ILE
3	N	942	THR
3	O	6	MET
3	O	10	SER
3	O	39	SER
3	O	43	LYS
3	O	45	ARG
3	O	57	THR

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Mol	Chain	Res	Type
3	O	59	ARG
3	O	66	ARG
3	O	75	THR
3	O	80	LYS
3	O	106	LEU
3	O	118	THR
3	O	167	VAL
3	O	204	GLN
3	O	205	ILE
3	O	221	ARG
3	O	225	LYS
3	O	226	THR
3	O	248	ILE
3	O	263	MET
3	O	268	THR
3	O	284	VAL
3	O	293	GLU
3	O	304	THR
3	O	310	SER
3	O	339	ASN
3	O	354	LEU
3	O	376	ILE
3	O	379	ARG
3	O	419	VAL
3	O	428	VAL
3	O	447	ASP
3	O	469	ARG
3	O	483	LYS
3	O	489	SER
3	O	499	THR
3	O	507	VAL
3	O	514	ASP
3	O	517	ILE
3	O	548	LEU
3	O	577	SER
3	O	582	TRP
3	O	591	VAL
3	O	596	LEU
3	O	601	ARG
3	O	627	SER
3	O	636	ASP
3	O	637	THR

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Mol	Chain	Res	Type
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	723	THR
3	O	746	ARG
3	O	773	TYR
3	O	785	SER
3	O	789	ARG
3	O	795	ARG
3	O	805	VAL
3	O	808	THR
3	O	818	ILE
3	O	836	ARG
3	O	837	GLU
3	O	853	THR
3	O	858	ILE
3	O	864	LEU
3	O	867	ARG
3	O	891	LEU
3	O	892	LEU
3	O	918	LEU
3	O	926	ARG
3	O	929	ARG
3	O	935	ILE
3	O	942	THR
3	P	6	MET
3	P	10	SER
3	P	39	SER
3	P	43	LYS
3	P	45	ARG
3	P	57	THR
3	P	59	ARG
3	P	66	ARG
3	P	75	THR
3	P	80	LYS

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Mol	Chain	Res	Type
3	P	106	LEU
3	P	118	THR
3	P	167	VAL
3	P	204	GLN
3	P	205	ILE
3	P	221	ARG
3	P	225	LYS
3	P	226	THR
3	P	248	ILE
3	P	263	MET
3	P	284	VAL
3	P	293	GLU
3	P	304	THR
3	P	310	SER
3	P	339	ASN
3	P	354	LEU
3	P	376	ILE
3	P	379	ARG
3	P	419	VAL
3	P	428	VAL
3	P	447	ASP
3	P	469	ARG
3	P	483	LYS
3	P	489	SER
3	P	499	THR
3	P	507	VAL
3	P	514	ASP
3	P	517	ILE
3	P	548	LEU
3	P	577	SER
3	P	582	TRP
3	P	591	VAL
3	P	596	LEU
3	P	601	ARG
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

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Mol	Chain	Res	Type
3	P	666	ILE
3	P	668	SER
3	P	680	THR
3	P	682	LEU
3	P	718	LYS
3	P	723	THR
3	P	746	ARG
3	P	773	TYR
3	P	785	SER
3	P	789	ARG
3	P	795	ARG
3	P	805	VAL
3	P	808	THR
3	P	818	ILE
3	P	836	ARG
3	P	837	GLU
3	P	853	THR
3	P	858	ILE
3	P	864	LEU
3	P	867	ARG
3	P	891	LEU
3	P	892	LEU
3	P	918	LEU
3	P	926	ARG
3	P	929	ARG
3	P	935	ILE
3	P	942	THR
3	Q	6	MET
3	Q	10	SER
3	Q	39	SER
3	Q	43	LYS
3	Q	45	ARG
3	Q	57	THR
3	Q	59	ARG
3	Q	66	ARG
3	Q	75	THR
3	Q	80	LYS
3	Q	106	LEU
3	Q	118	THR
3	Q	167	VAL
3	Q	204	GLN
3	Q	205	ILE

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Mol	Chain	Res	Type
3	Q	221	ARG
3	Q	225	LYS
3	Q	226	THR
3	Q	248	ILE
3	Q	263	MET
3	Q	268	THR
3	Q	284	VAL
3	Q	293	GLU
3	Q	304	THR
3	Q	310	SER
3	Q	339	ASN
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	499	THR
3	Q	507	VAL
3	Q	514	ASP
3	Q	517	ILE
3	Q	548	LEU
3	Q	577	SER
3	Q	582	TRP
3	Q	591	VAL
3	Q	596	LEU
3	Q	601	ARG
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

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Mol	Chain	Res	Type
3	Q	682	LEU
3	Q	718	LYS
3	Q	723	THR
3	Q	746	ARG
3	Q	773	TYR
3	Q	785	SER
3	Q	789	ARG
3	Q	795	ARG
3	Q	805	VAL
3	Q	808	THR
3	Q	818	ILE
3	Q	836	ARG
3	Q	837	GLU
3	Q	853	THR
3	Q	858	ILE
3	Q	864	LEU
3	Q	867	ARG
3	Q	891	LEU
3	Q	892	LEU
3	Q	918	LEU
3	Q	926	ARG
3	Q	929	ARG
3	Q	935	ILE
3	Q	942	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (177) 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	402	GLN
1	A	459	ASN
1	A	471	HIS

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Mol	Chain	Res	Type
1	A	497	ASN
1	A	503	GLN
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	402	GLN
1	B	436	GLN
1	B	459	ASN
1	B	471	HIS
1	B	497	ASN
1	B	503	GLN
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	402	GLN
1	C	436	GLN
1	C	459	ASN
1	C	471	HIS
1	C	497	ASN
1	C	503	GLN
1	D	53	ASN
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

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Mol	Chain	Res	Type
1	D	214	ASN
1	D	237	HIS
1	D	402	GLN
1	D	436	GLN
1	D	459	ASN
1	D	471	HIS
1	D	497	ASN
1	D	503	GLN
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
3	F	204	GLN
3	F	217	HIS
3	F	264	GLN
3	F	350	GLN
3	F	361	GLN
3	F	740	ASN
3	F	815	GLN
3	F	820	HIS
3	F	928	HIS
3	G	204	GLN
3	G	217	HIS
3	G	264	GLN
3	G	350	GLN
3	G	361	GLN
3	G	815	GLN
3	G	820	HIS
3	G	928	HIS
3	H	204	GLN
3	H	217	HIS

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Mol	Chain	Res	Type
3	H	264	GLN
3	H	350	GLN
3	H	361	GLN
3	H	815	GLN
3	H	820	HIS
3	H	928	HIS
3	I	204	GLN
3	I	217	HIS
3	I	264	GLN
3	I	350	GLN
3	I	361	GLN
3	I	815	GLN
3	I	820	HIS
3	I	928	HIS
3	J	204	GLN
3	J	264	GLN
3	J	350	GLN
3	J	361	GLN
3	J	815	GLN
3	J	820	HIS
3	J	928	HIS
3	K	204	GLN
3	K	217	HIS
3	K	264	GLN
3	K	350	GLN
3	K	361	GLN
3	K	815	GLN
3	K	820	HIS
3	K	928	HIS
3	L	204	GLN
3	L	217	HIS
3	L	264	GLN
3	L	350	GLN
3	L	361	GLN
3	L	815	GLN
3	L	820	HIS
3	L	928	HIS
3	M	204	GLN
3	M	217	HIS
3	M	264	GLN
3	M	350	GLN
3	M	361	GLN

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Mol	Chain	Res	Type
3	M	740	ASN
3	M	815	GLN
3	M	820	HIS
3	M	928	HIS
3	N	204	GLN
3	N	217	HIS
3	N	264	GLN
3	N	350	GLN
3	N	361	GLN
3	N	815	GLN
3	N	820	HIS
3	N	928	HIS
3	O	204	GLN
3	O	217	HIS
3	O	264	GLN
3	O	350	GLN
3	O	361	GLN
3	O	740	ASN
3	O	815	GLN
3	O	820	HIS
3	O	928	HIS
3	P	8	GLN
3	P	204	GLN
3	P	217	HIS
3	P	264	GLN
3	P	350	GLN
3	P	361	GLN
3	P	815	GLN
3	P	820	HIS
3	P	928	HIS
3	Q	204	GLN
3	Q	264	GLN
3	Q	350	GLN
3	Q	361	GLN
3	Q	815	GLN
3	Q	820	HIS
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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

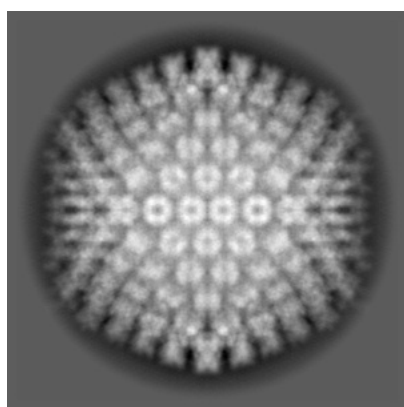
6 Map visualisation [i](#)

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.

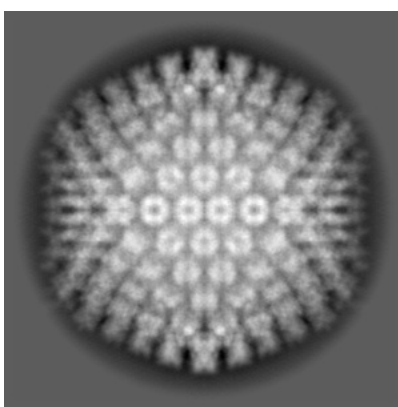
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

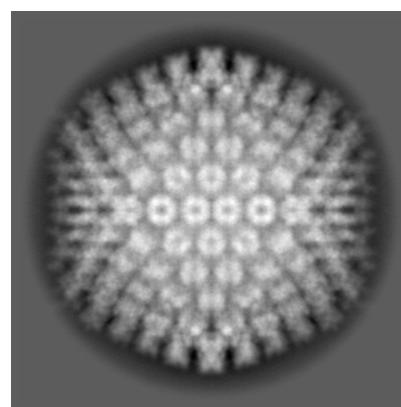
6.1.1 Primary map



X



Y

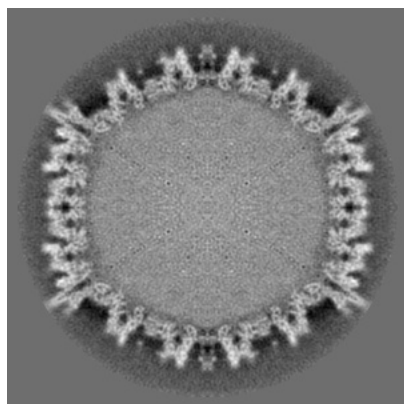


Z

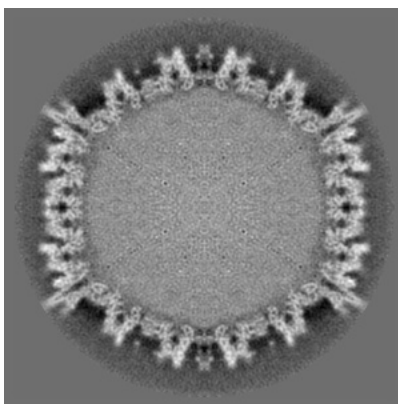
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

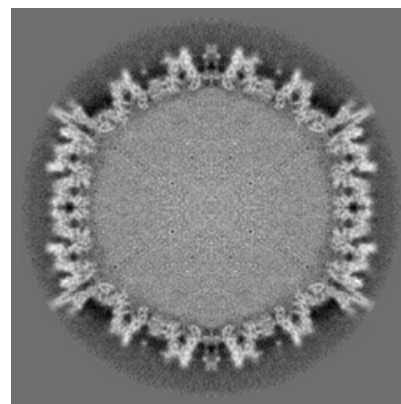
6.2.1 Primary map



X Index: 224



Y Index: 224

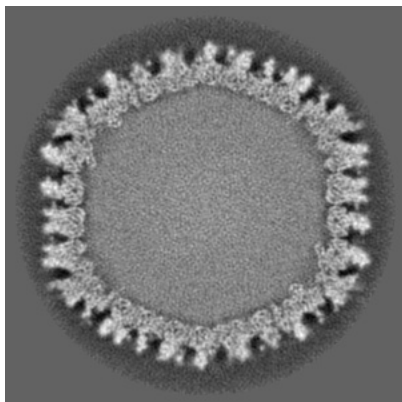


Z Index: 224

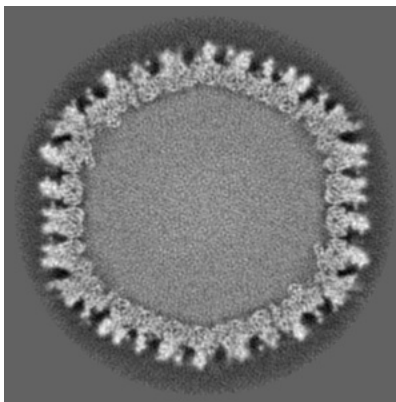
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

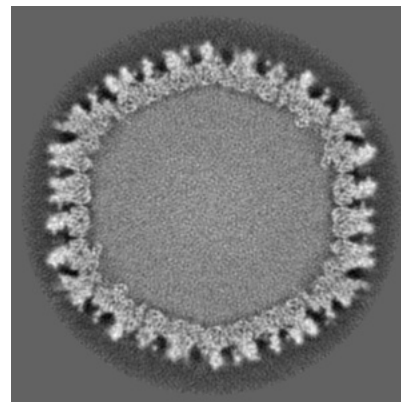
6.3.1 Primary map



X Index: 216



Y Index: 216

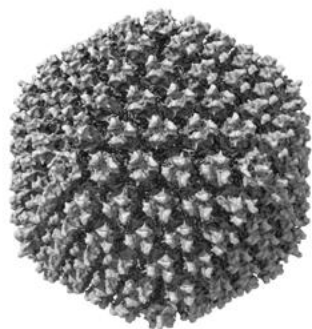


Z Index: 232

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

6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 180.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

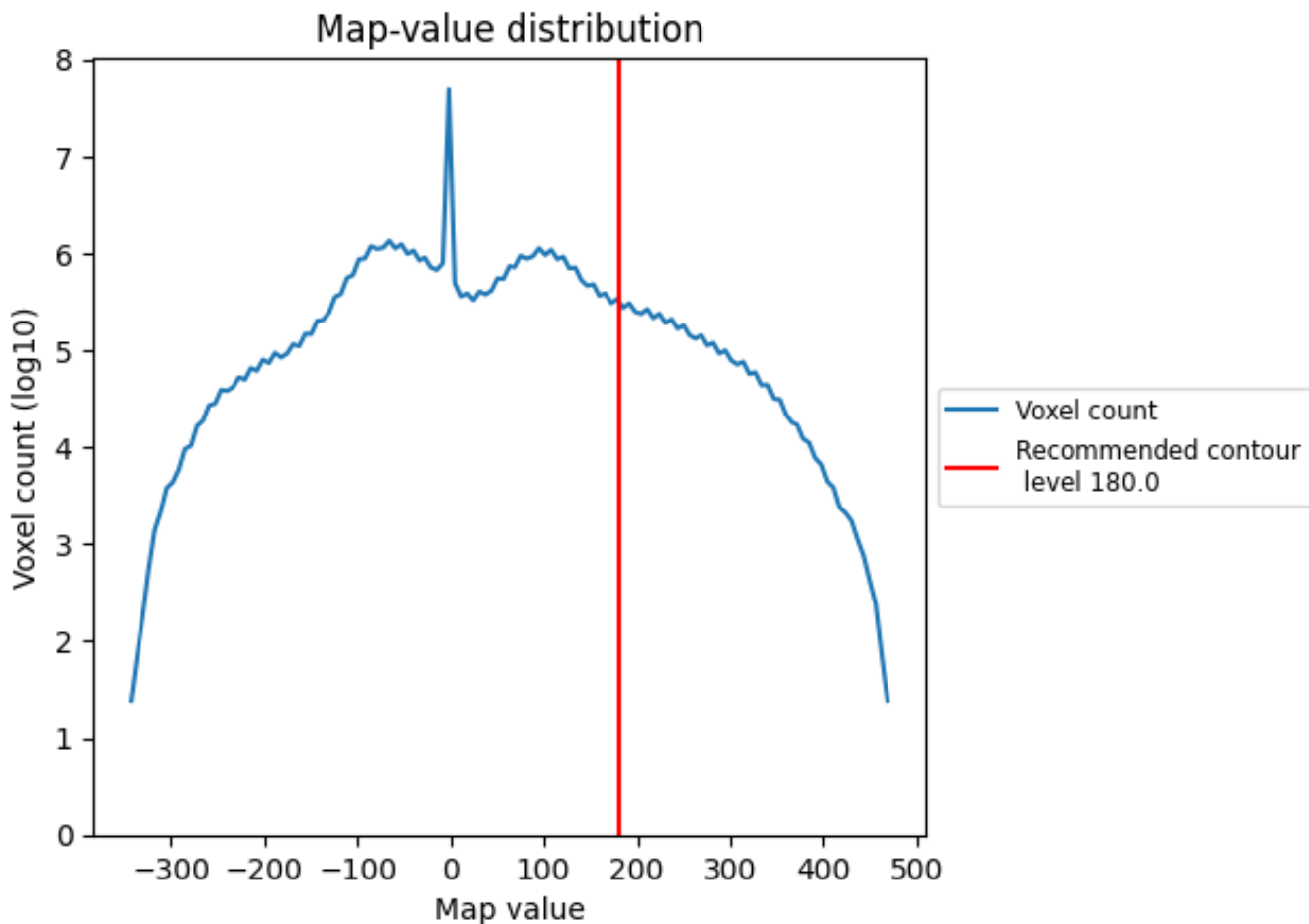
6.5 Mask visualisation

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

7 Map analysis [i](#)

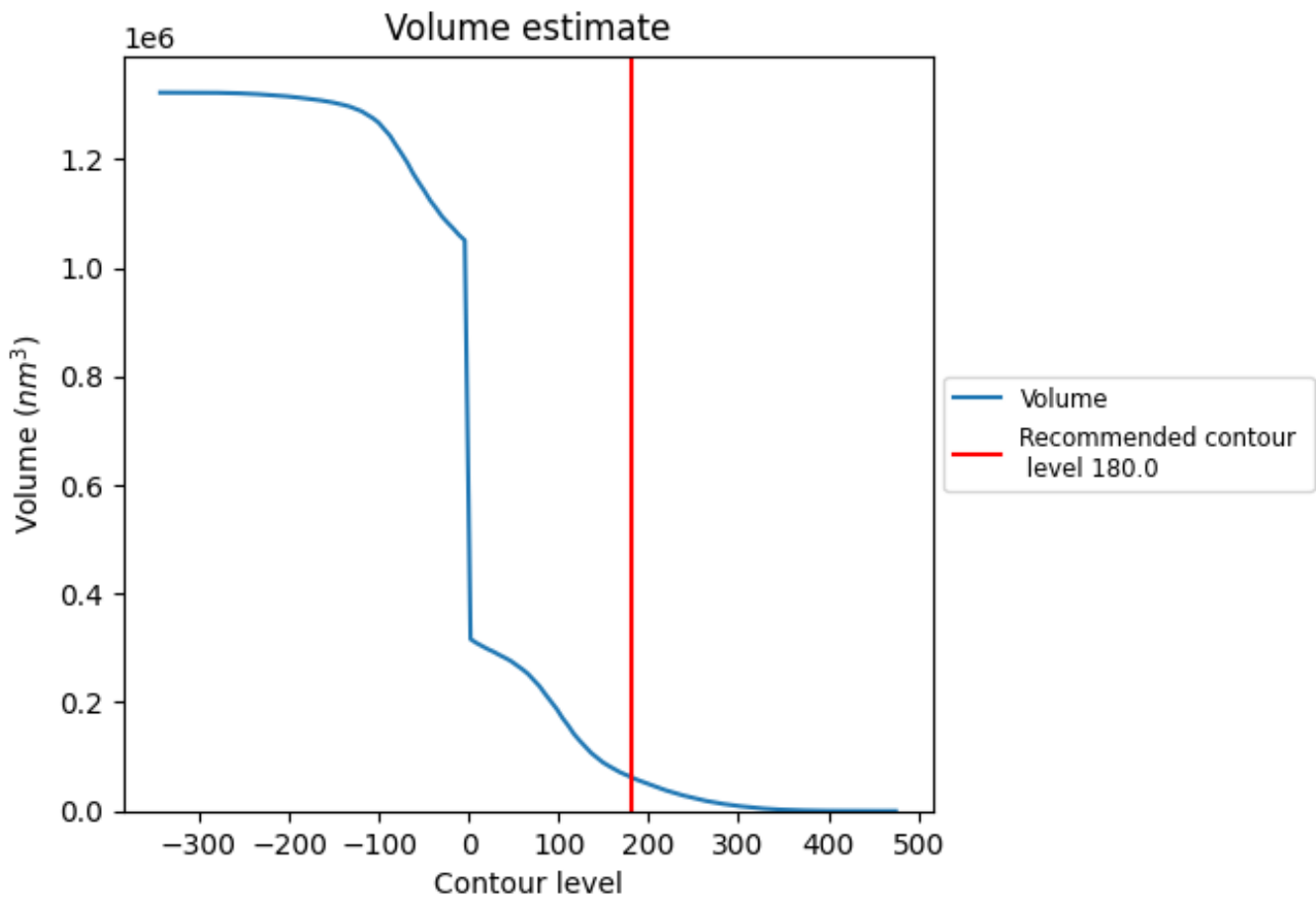
This section contains the results of statistical analysis of the map.

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.

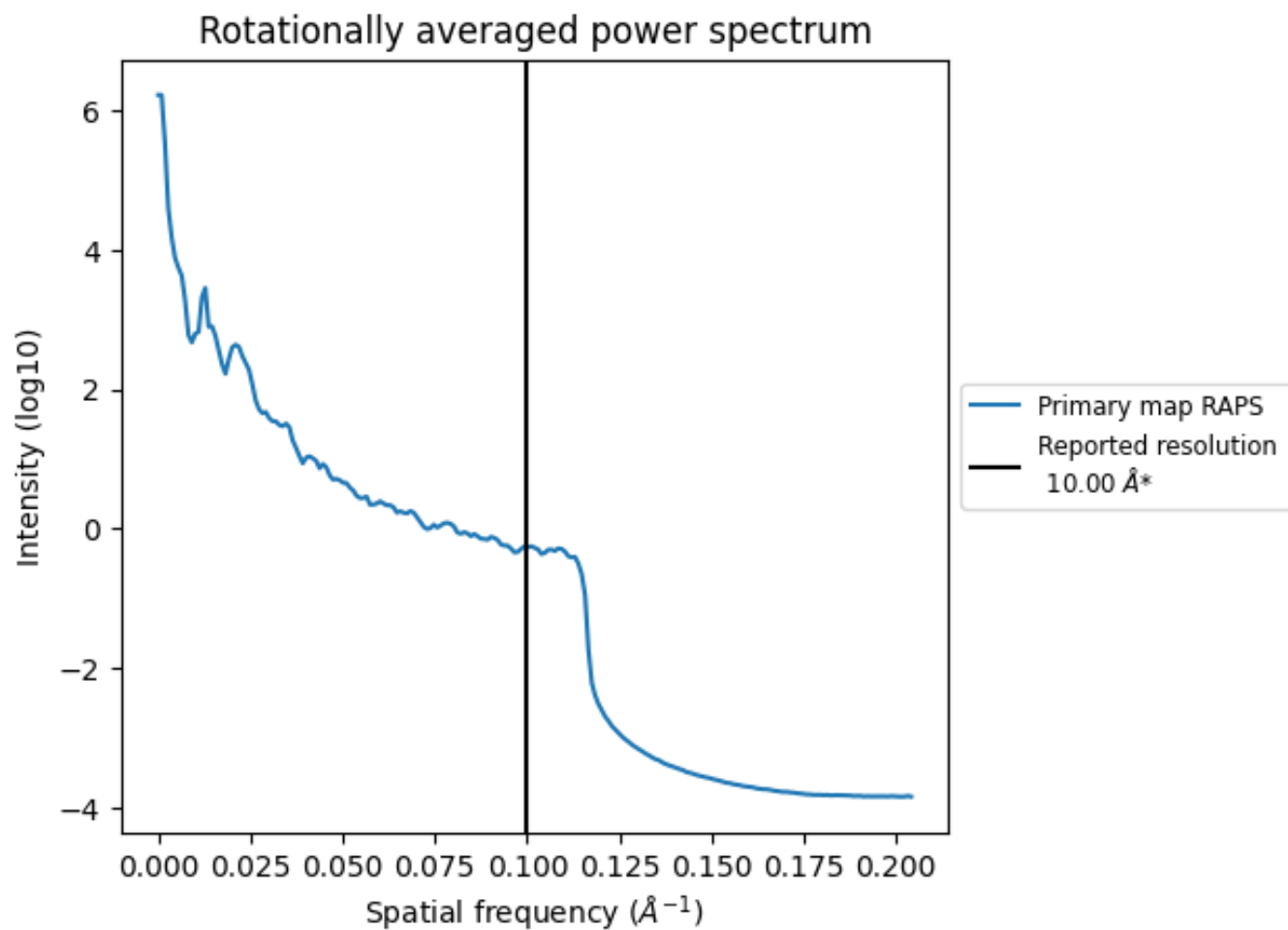
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 62409 nm^3 ; this corresponds to an approximate mass of 56376 kDa.

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

7.3 Rotationally averaged power spectrum [\(i\)](#)



*Reported resolution corresponds to spatial frequency of 0.100\AA^{-1}

8 Fourier-Shell correlation

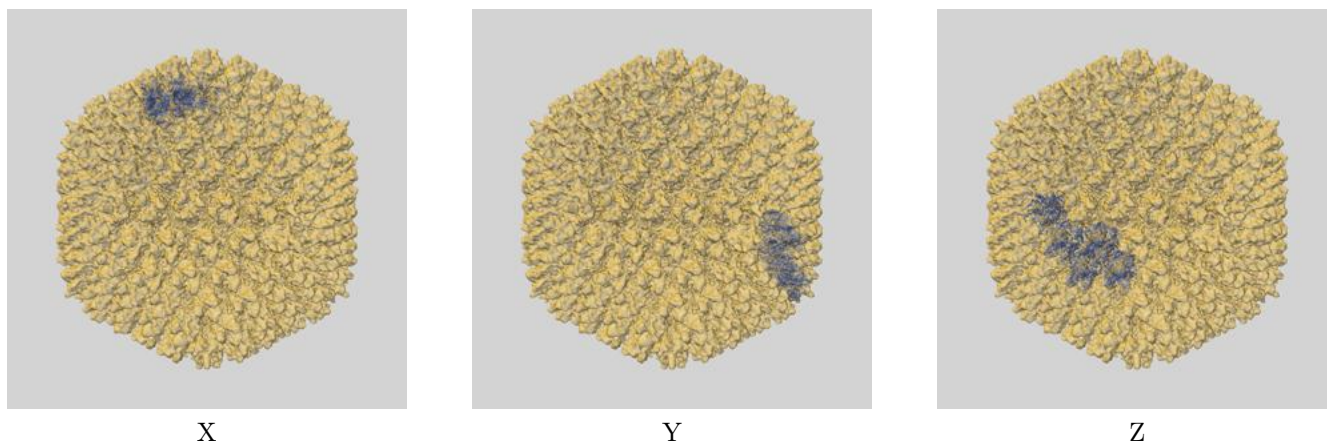
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

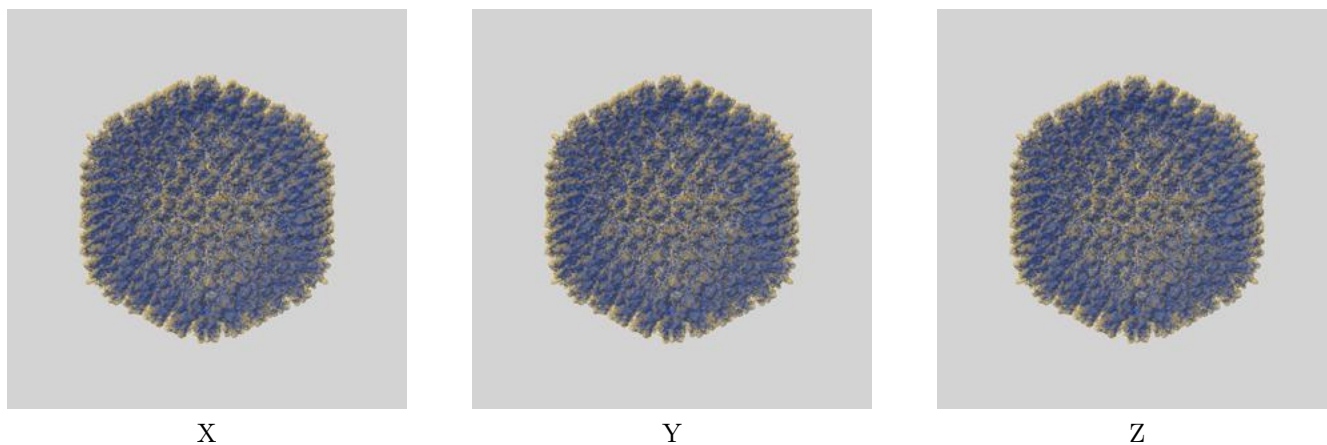
This section contains information regarding the fit between EMDB map EMD-1113 and PDB model 4V4U. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)

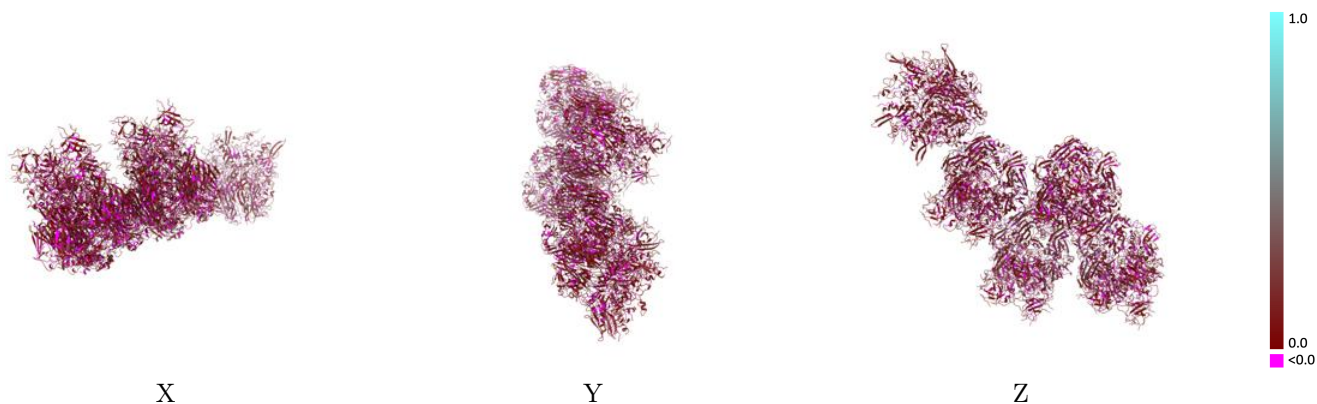


9.1.2 Map-model assembly overlay [i](#)



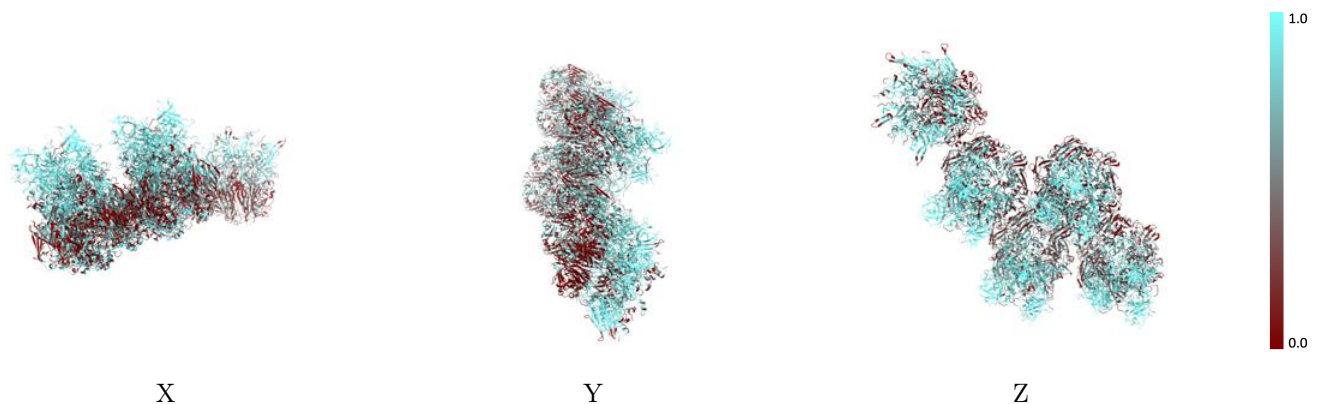
The images above show the 3D surface view of the map at the recommended contour level 180.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



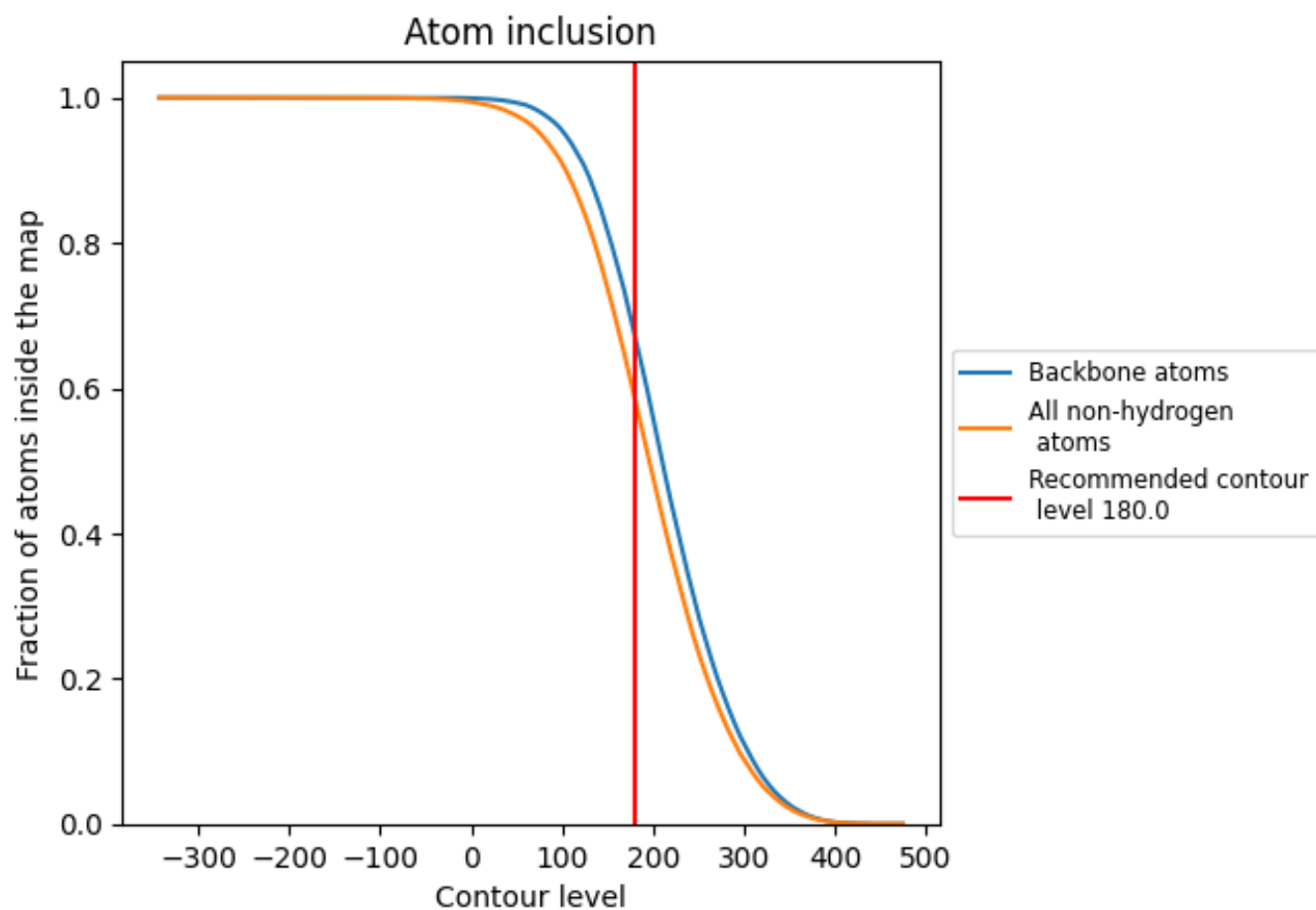
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (180.0).















































9.4 Atom inclusion [i](#)



At the recommended contour level, 67% of all backbone atoms, 59% 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 (180.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5859	 0.0930
A	 0.5677	 0.0990
B	 0.5750	 0.1040
C	 0.5733	 0.1050
D	 0.5596	 0.1000
E	 0.5610	 0.0980
F	 0.5841	 0.0930
G	 0.5908	 0.0900
H	 0.5820	 0.0900
I	 0.5664	 0.0890
J	 0.5850	 0.0860
K	 0.5705	 0.0880
L	 0.5822	 0.0970
M	 0.5783	 0.0950
N	 0.5926	 0.0940
O	 0.6179	 0.0910
P	 0.6269	 0.0960
Q	 0.6210	 0.0910
S	 0.2738	 0.0170
T	 0.2619	 0.0200
U	 0.2500	 -0.0020
V	 0.2381	 0.0160
W	 0.2619	 0.0250

