



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 06:45 PM UTC

PDB ID : 5X51 / pdb_00005x51
Title : RNA Polymerase II from Komagataella Pastoris (Type-3 crystal)
Authors : Ehara, H.; Umehara, T.; Sekine, S.; Yokoyama, S.
Deposited on : 2017-02-14
Resolution : 7.00 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

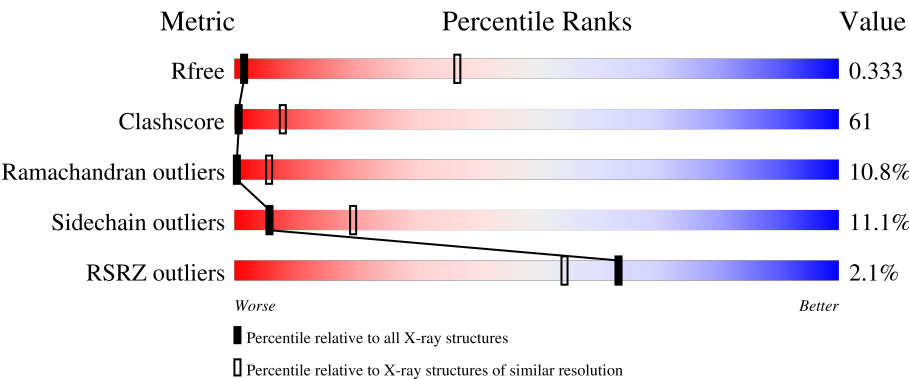
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 7.00 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1167 (10.00-4.00)
Clashscore	190562	1007 (9.70-4.04)
Ramachandran outliers	187476	1054 (10.00-4.00)
Sidechain outliers	187428	1017 (10.00-4.00)
RSRZ outliers	180081	1161 (10.00-4.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	1743	24%42%12%21%
1	M	1743	24%41%12%20%
2	B	1227	23%48%15%13% 2%
2	N	1227	23%48%15%12% 2%
3	C	304	32%41%13%13% 3%

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Mol	Chain	Length	Quality of chain
3	O	304	
4	D	186	
4	P	186	
5	E	214	
5	Q	214	
6	F	155	
6	R	155	
7	G	171	
7	S	171	
8	H	145	
8	T	145	
9	I	115	
9	U	115	
10	J	72	
10	V	72	
11	K	118	
11	W	118	
12	L	73	
12	X	73	

2 Entry composition

There are 13 unique types of molecules in this entry. The entry contains 56615 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 DNA-directed RNA polymerase subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1384	Total	C	N	O	S	0	0	0
			10247	6499	1793	1901	54			
1	M	1386	Total	C	N	O	S	0	0	0
			10262	6507	1795	1906	54			

- Molecule 2 is a protein called DNA-directed RNA polymerase subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	1073	Total	C	N	O	S	0	0	0
			8182	5202	1425	1509	46			
2	N	1074	Total	C	N	O	S	0	0	0
			8190	5208	1426	1510	46			

- Molecule 3 is a protein called RNA polymerase II third largest subunit B44, part of central core.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	265	Total	C	N	O	S	0	0	0
			1863	1188	310	357	8			
3	O	265	Total	C	N	O	S	0	0	0
			1863	1188	310	357	8			

- Molecule 4 is a protein called RNA polymerase II subunit B32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	163	Total	C	N	O	S	0	0	0
			1105	707	190	206	2			
4	P	162	Total	C	N	O	S	0	0	0
			1099	704	189	204	2			

- Molecule 5 is a protein called RNA polymerase subunit ABC27, common to RNA polymerases I, II, and III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	214	Total	C	N	O	S	0	0	0
			1638	1045	288	297	8			
5	Q	214	Total	C	N	O	S	0	0	0
			1638	1045	288	297	8			

- Molecule 6 is a protein called RNA polymerase subunit ABC23, common to RNA polymerases I, II, and III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	84	Total	C	N	O	S	0	0	0
			637	406	109	119	3			
6	R	84	Total	C	N	O	S	0	0	0
			637	406	109	119	3			

- Molecule 7 is a protein called RNA polymerase II subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	G	171	Total	C	N	O	S	0	0	0
			1187	775	192	217	3			
7	S	171	Total	C	N	O	S	0	0	0
			1187	775	192	217	3			

- Molecule 8 is a protein called RNA polymerase subunit ABC14.5, common to RNA polymerases I, II, and III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	H	130	Total	C	N	O	S	0	0	0
			953	610	151	189	3			
8	T	130	Total	C	N	O	S	0	0	0
			953	610	151	189	3			

- Molecule 9 is a protein called DNA-directed RNA polymerase subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	I	112	Total	C	N	O	S	0	0	0
			847	531	149	156	11			
9	U	112	Total	C	N	O	S	0	0	0
			847	531	149	156	11			

- Molecule 10 is a protein called RNA polymerase subunit ABC10-beta, common to RNA polymerases I, II, and III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	J	62	Total	C	N	O	S	0	0	0
			487	320	85	76	6			
10	V	62	Total	C	N	O	S	0	0	0
			487	320	85	76	6			

- Molecule 11 is a protein called RNA polymerase II subunit B12.5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	K	113	Total	C	N	O	S	0	0	0
			826	539	138	147	2			
11	W	113	Total	C	N	O	S	0	0	0
			826	539	138	147	2			

- Molecule 12 is a protein called RNA polymerase subunit, found in RNA polymerase complexes I, II, and III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	L	46	Total	C	N	O	S	0	0	0
			319	196	64	55	4			
12	X	46	Total	C	N	O	S	0	0	0
			319	196	64	55	4			

- Molecule 13 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
13	A	2	Total	Zn	0	0
			2	2		
13	B	1	Total	Zn	0	0
			1	1		
13	C	1	Total	Zn	0	0
			1	1		
13	I	2	Total	Zn	0	0
			2	2		
13	J	1	Total	Zn	0	0
			1	1		
13	L	1	Total	Zn	0	0
			1	1		
13	M	2	Total	Zn	0	0
			2	2		
13	N	1	Total	Zn	0	0
			1	1		
13	O	1	Total	Zn	0	0
			1	1		

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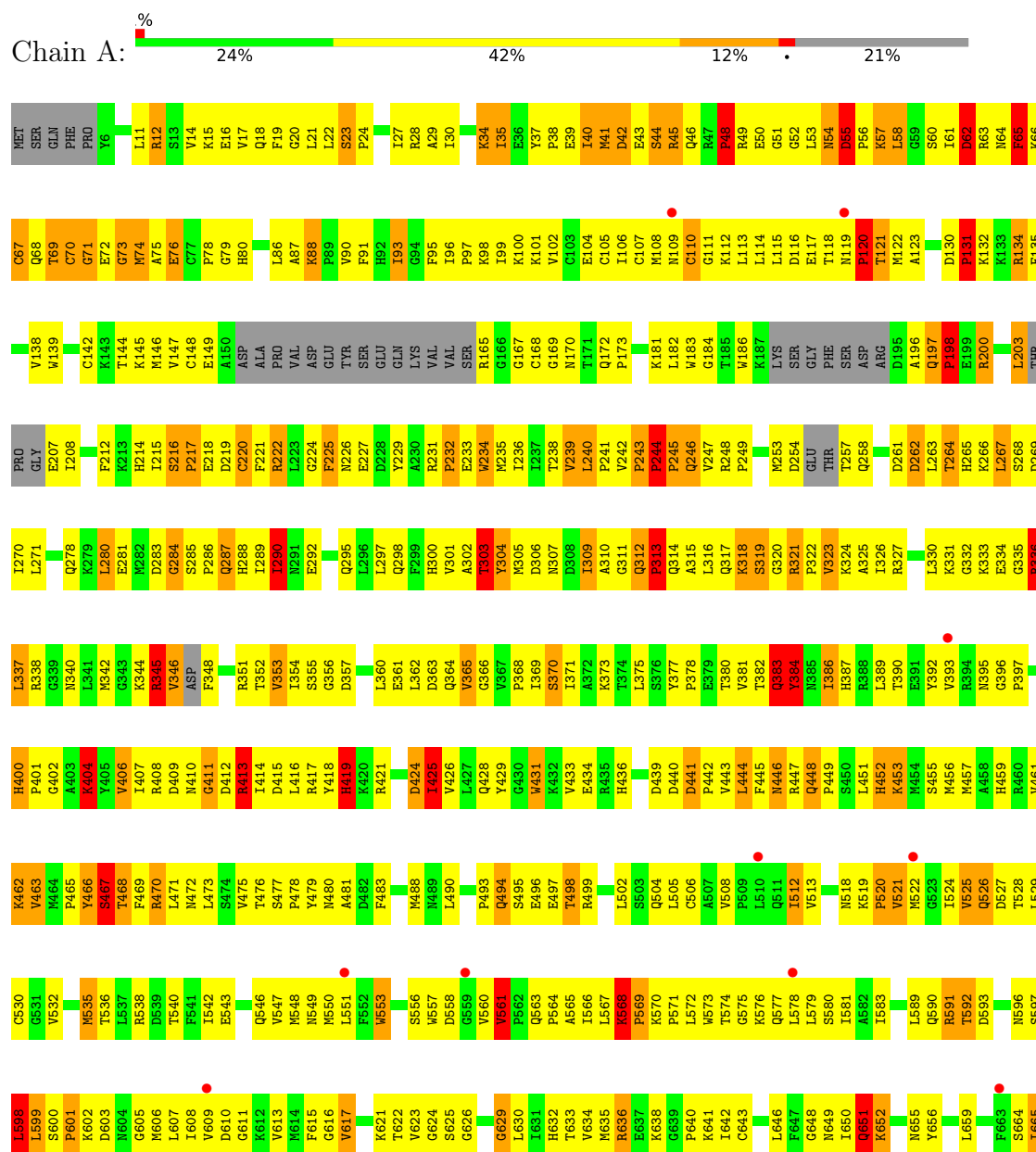
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
13	U	2	Total 2	Zn 2	0	0
13	V	1	Total 1	Zn 1	0	0
13	X	1	Total 1	Zn 1	0	0

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 electron 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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.

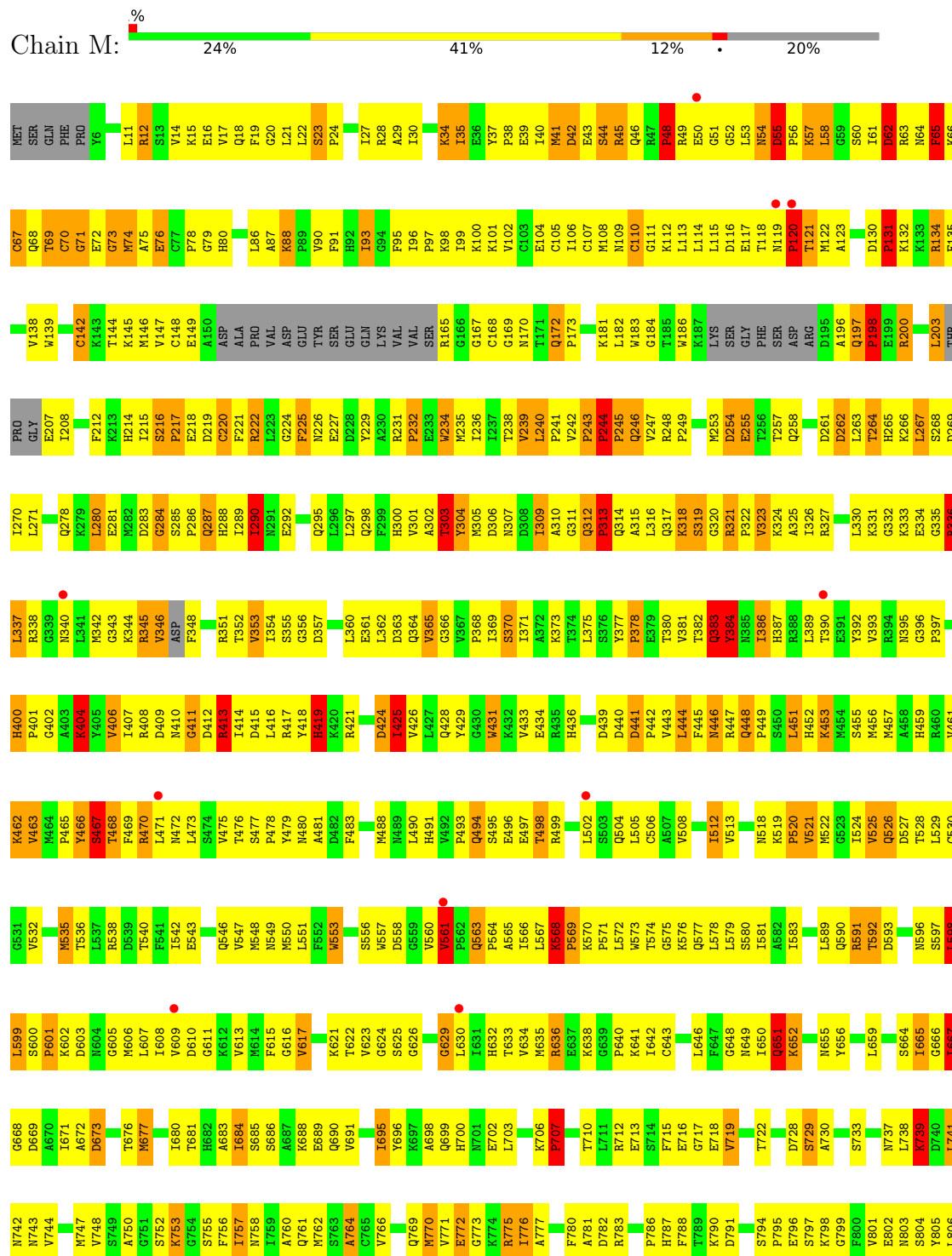
• Molecule 1: DNA-directed RNA polymerase subunit





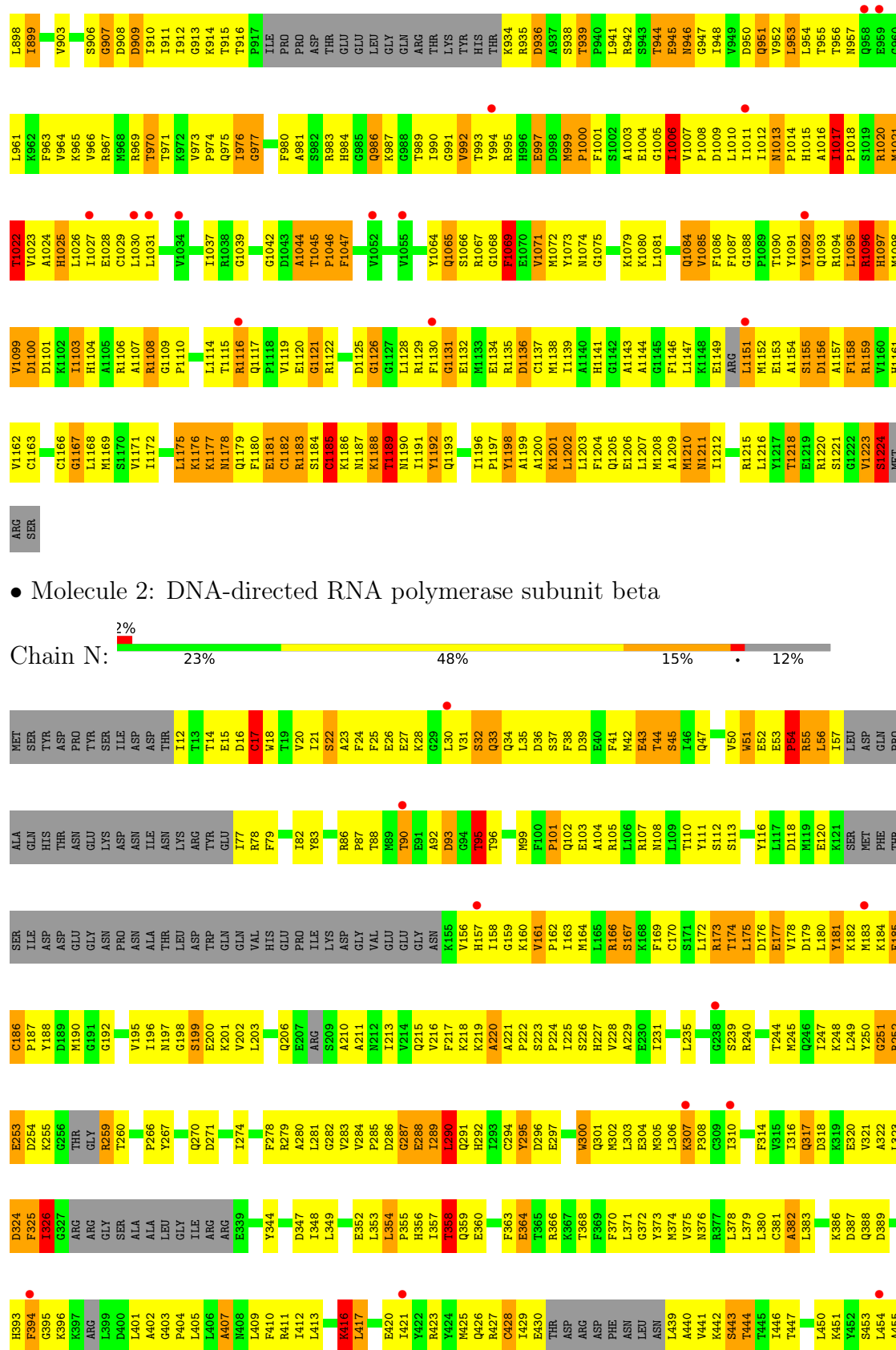
[illegible]

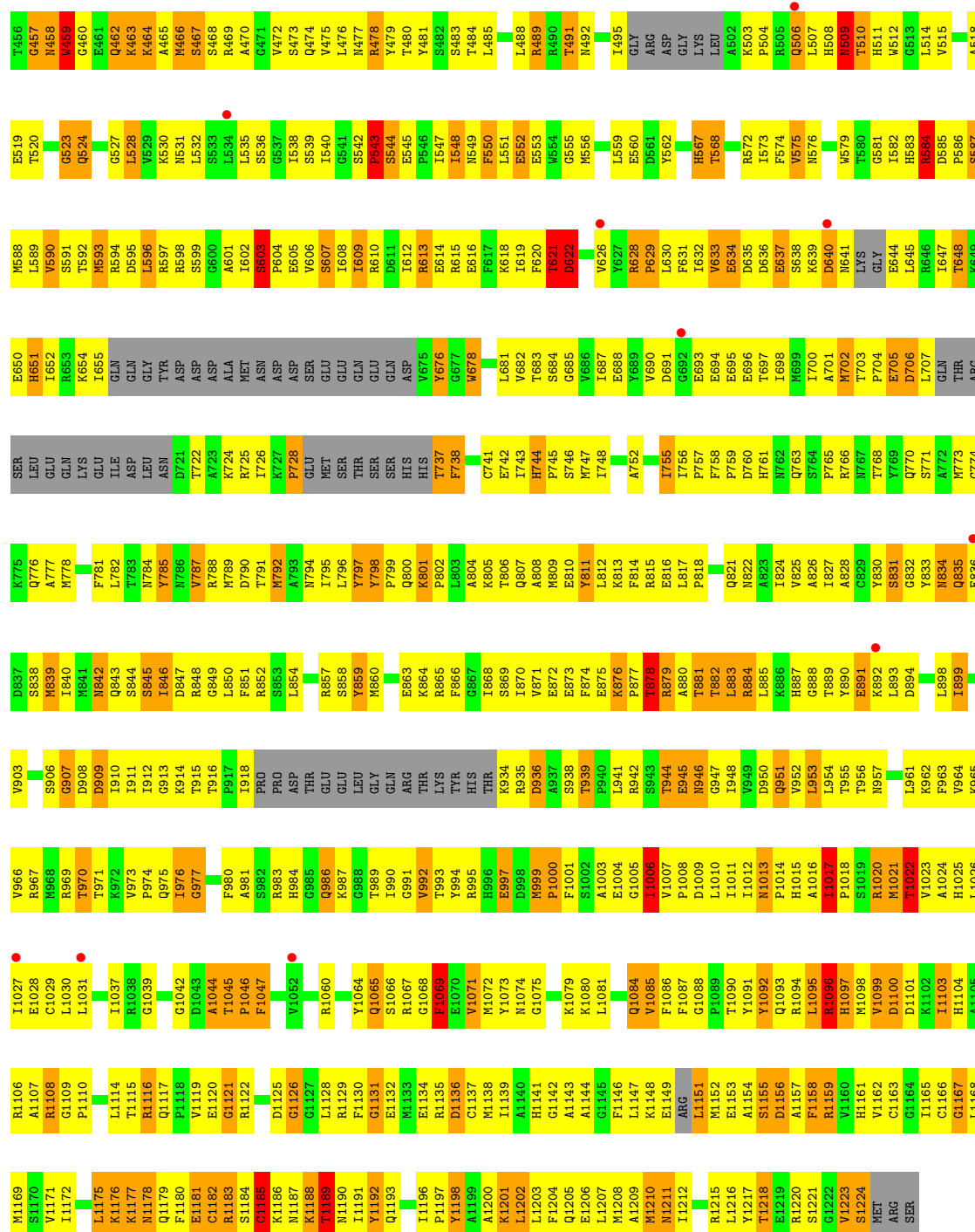
- Molecule 1: DNA-directed RNA polymerase subunit

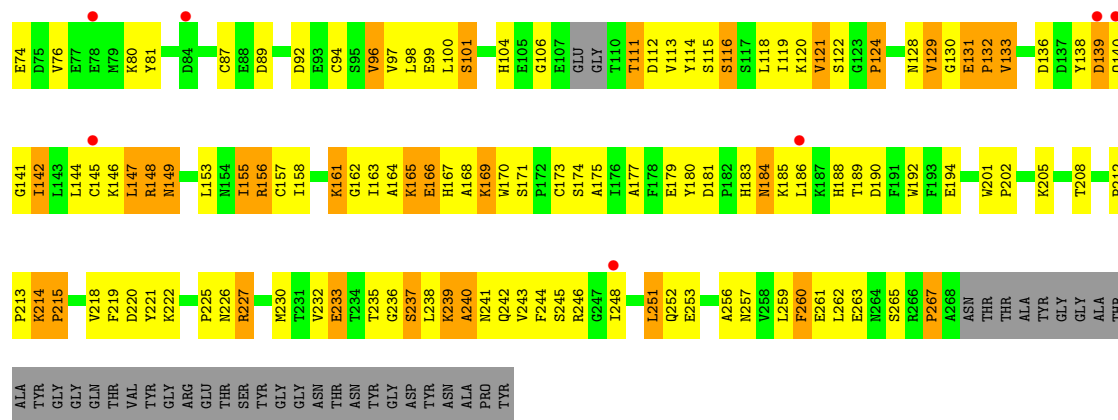


- Molecule 2: DNA-directed RNA polymerase subunit beta

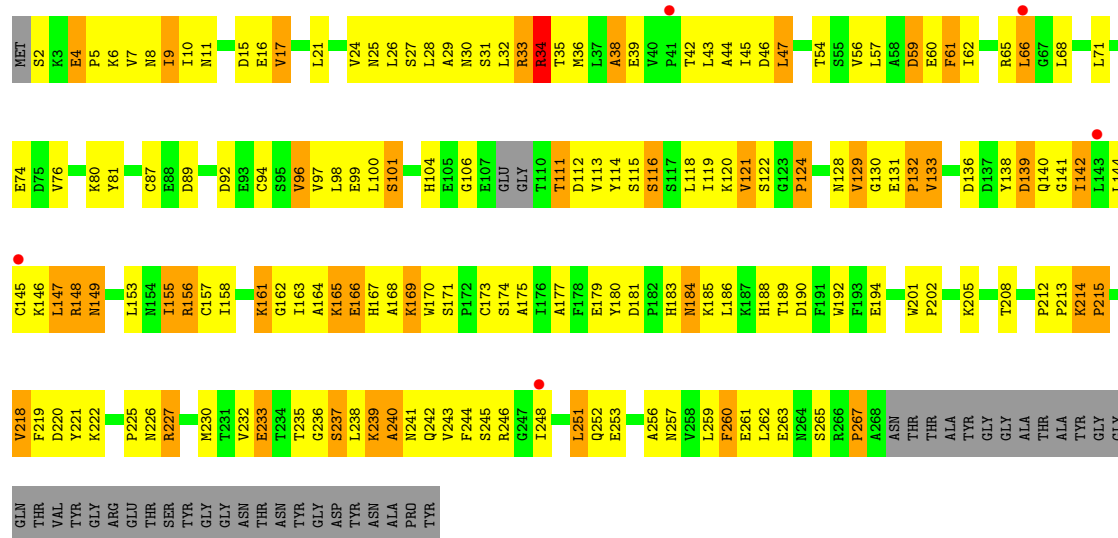




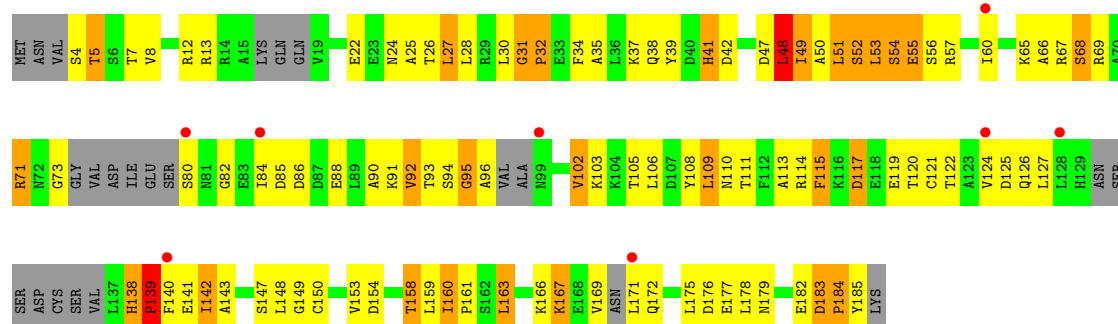




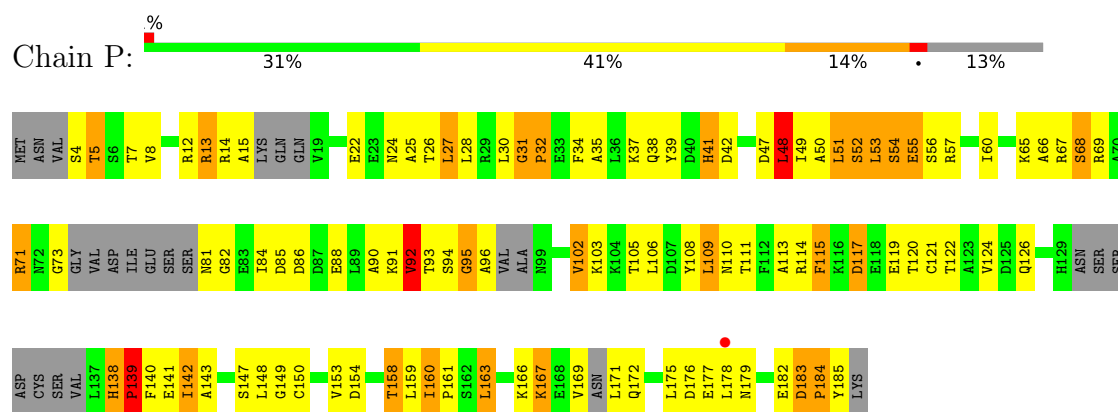
• Molecule 3: RNA polymerase II third largest subunit B44, part of central core



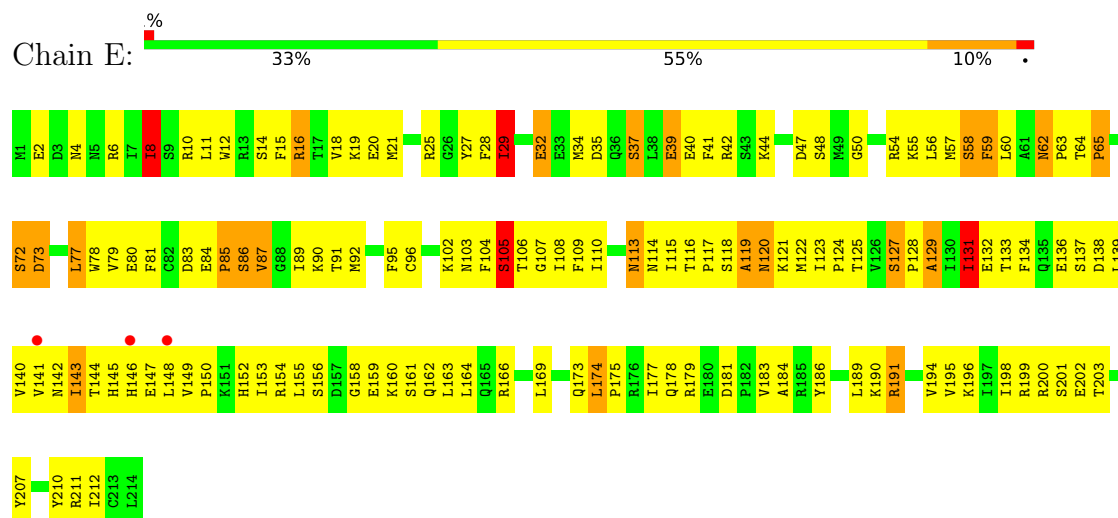
• Molecule 4: RNA polymerase II subunit B32



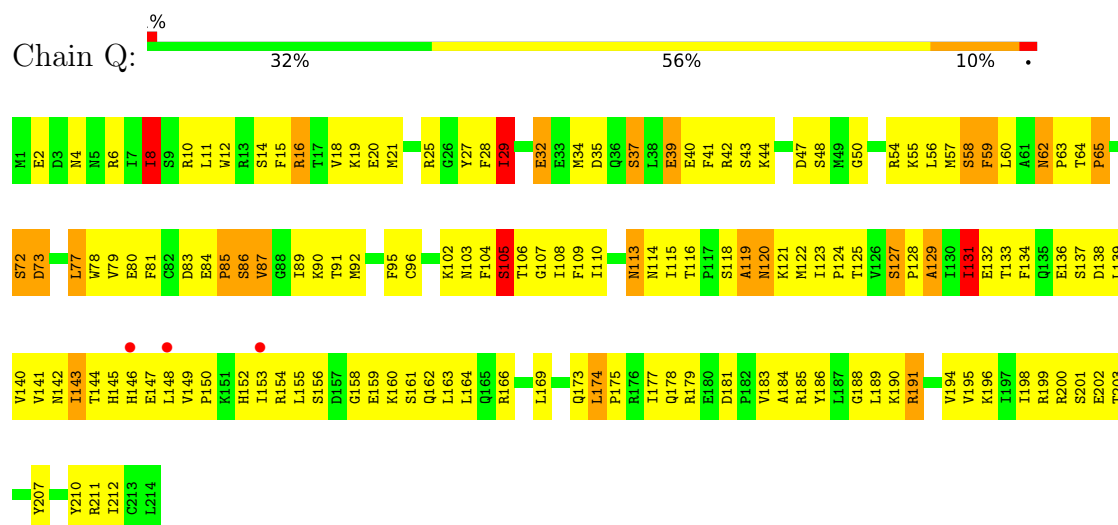
• Molecule 4: RNA polymerase II subunit B32



- Molecule 5: RNA polymerase subunit ABC27, common to RNA polymerases I, II, and III

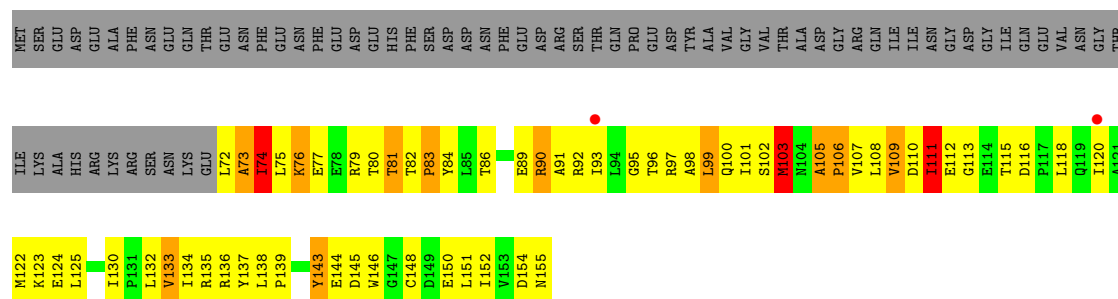


- Molecule 5: RNA polymerase subunit ABC27, common to RNA polymerases I, II, and III

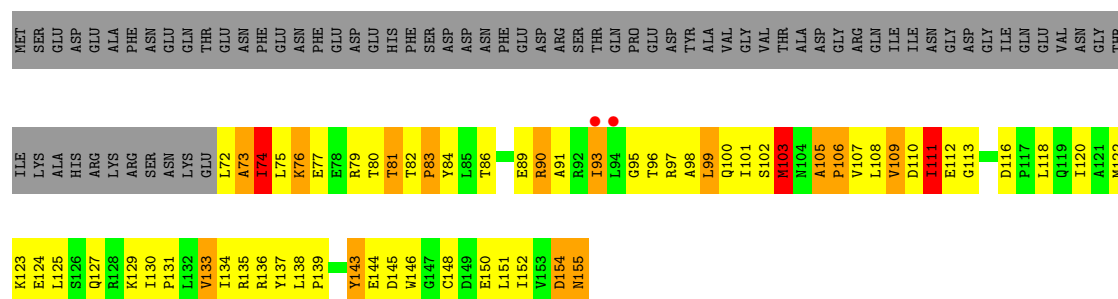


- Molecule 6: RNA polymerase subunit ABC23, common to RNA polymerases I, II, and III

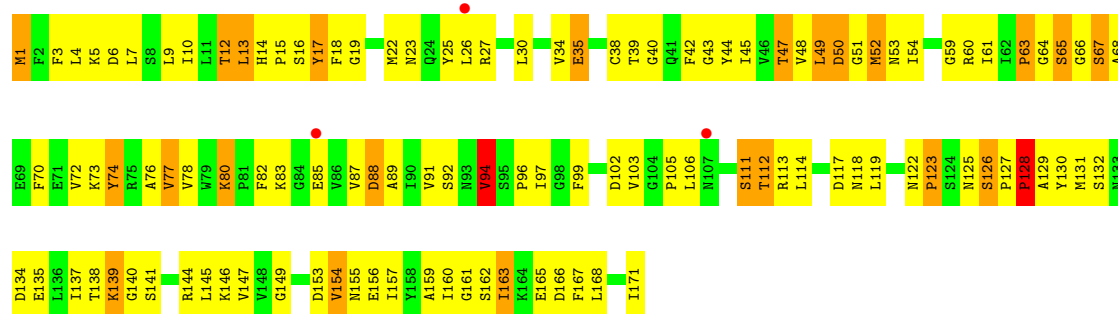




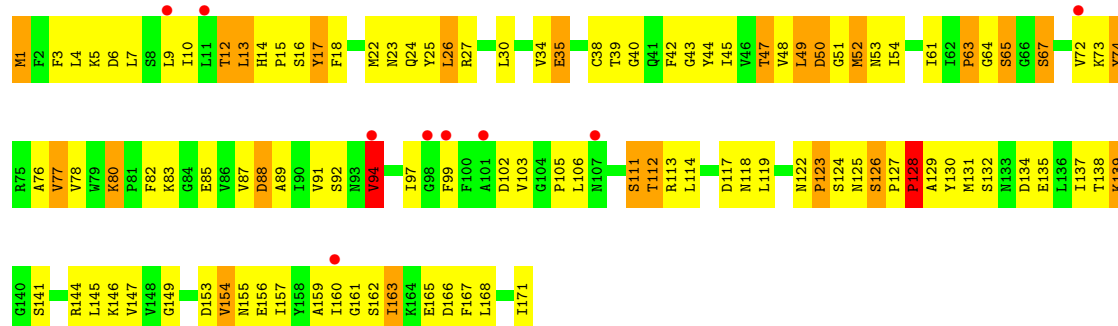
- Molecule 6: RNA polymerase subunit ABC23, common to RNA polymerases I, II, and III



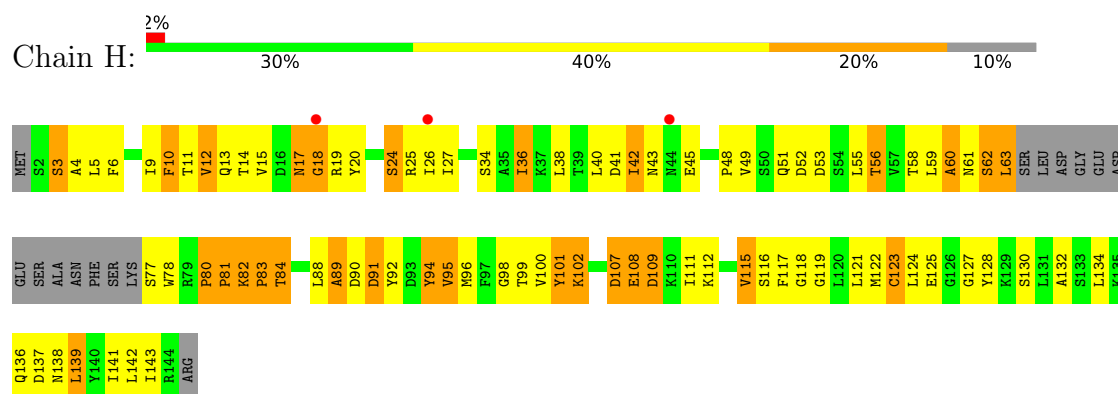
- Molecule 7: RNA polymerase II subunit



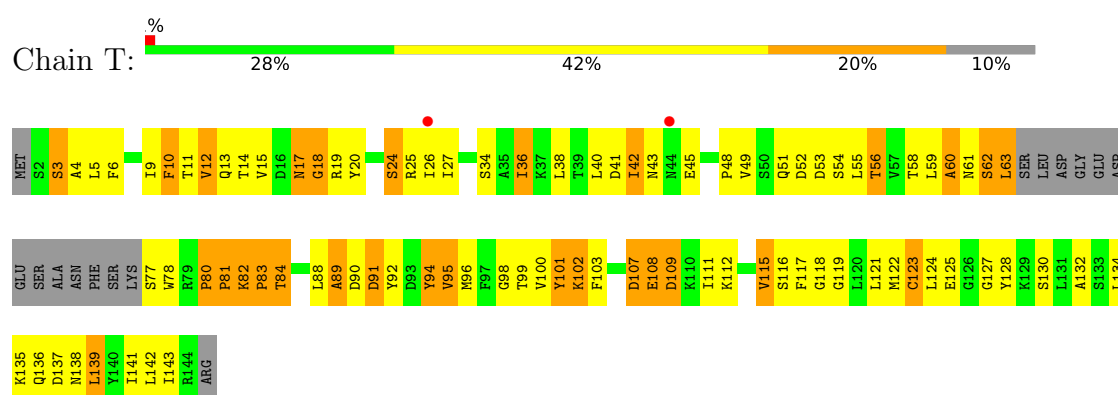
- Molecule 7: RNA polymerase II subunit



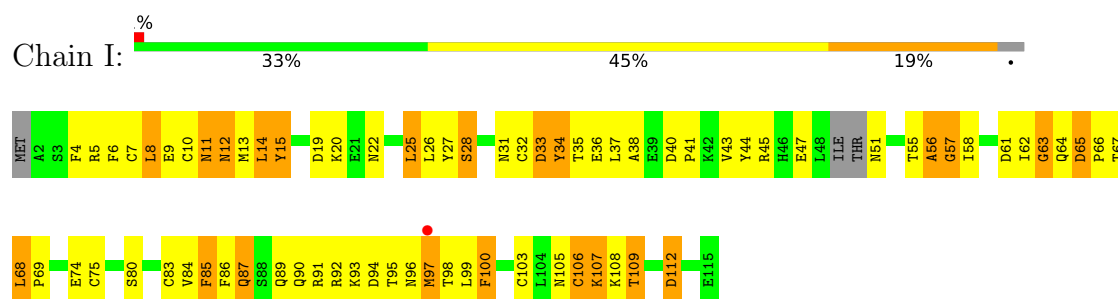
- Molecule 8: RNA polymerase subunit ABC14.5, common to RNA polymerases I, II, and III



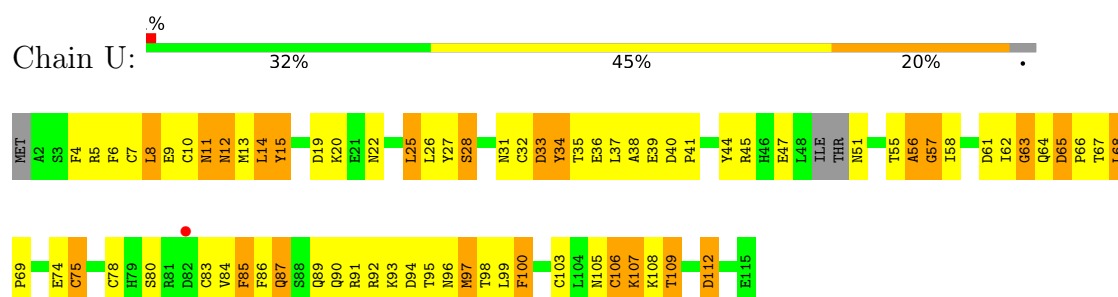
- Molecule 8: RNA polymerase subunit ABC14.5, common to RNA polymerases I, II, and III



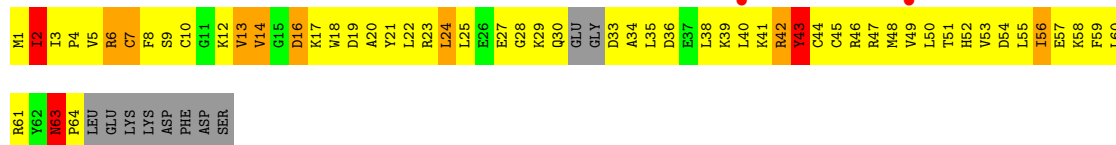
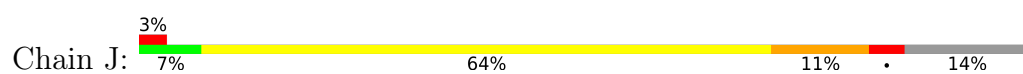
- Molecule 9: DNA-directed RNA polymerase subunit



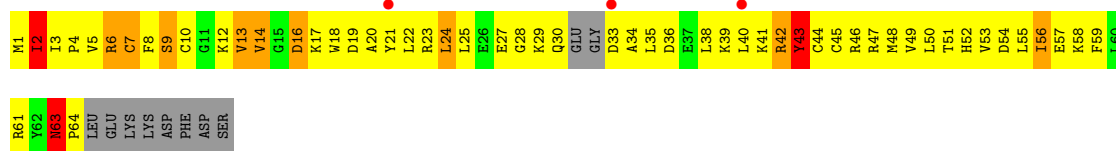
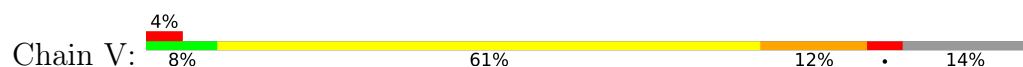
- Molecule 9: DNA-directed RNA polymerase subunit



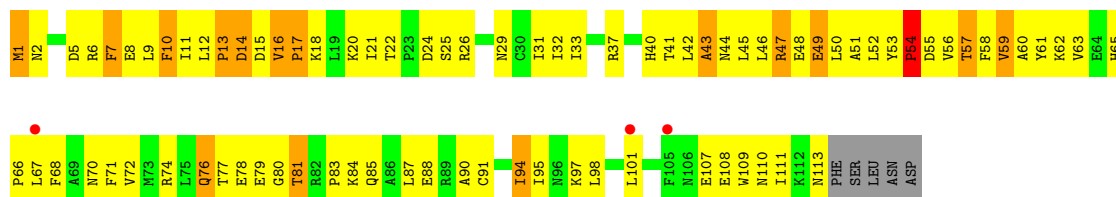
- Molecule 10: RNA polymerase subunit ABC10-beta, common to RNA polymerases I, II, and III



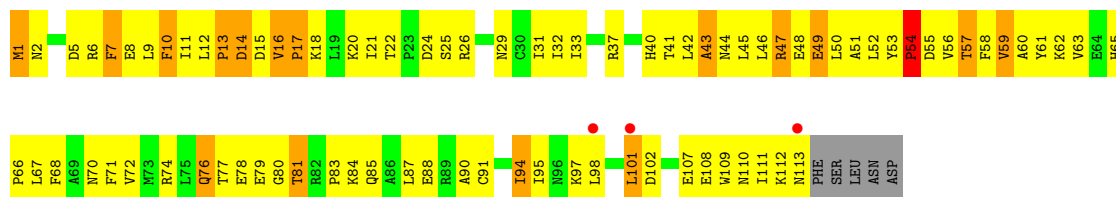
- Molecule 10: RNA polymerase subunit ABC10-beta, common to RNA polymerases I, II, and III



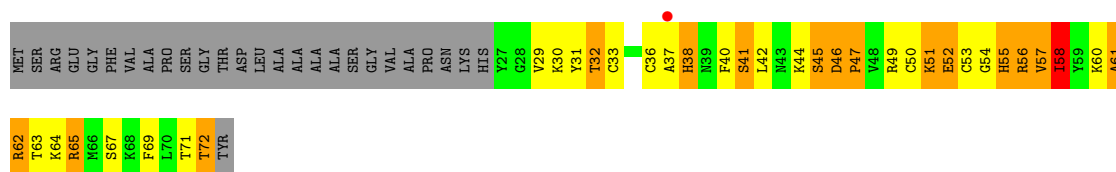
- Molecule 11: RNA polymerase II subunit B12.5



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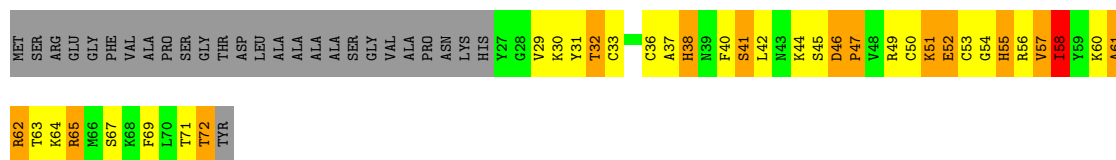
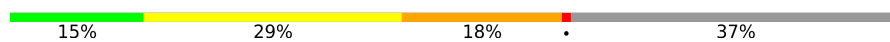


- Molecule 12: RNA polymerase subunit, found in RNA polymerase complexes I, II, and III



- Molecule 12: RNA polymerase subunit, found in RNA polymerase complexes I, II, and III

Chain X:



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	148.77Å 158.05Å 254.96Å 90.00° 92.54° 90.00°	Depositor
Resolution (Å)	33.27 – 7.00 33.27 – 7.00	Depositor EDS
% Data completeness (in resolution range)	99.5 (33.27-7.00) 98.5 (33.27-7.00)	Depositor EDS
R_{merge}	0.27	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.16 (at 6.68Å)	Xtriage
Refinement program	PHENIX dev_2614	Depositor
R, R_{free}	0.338 , 0.335 0.337 , 0.333	Depositor DCC
R_{free} test set	1886 reflections (10.06%)	wwPDB-VP
Wilson B-factor (Å ²)	221.0	Xtriage
Anisotropy	0.521	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 262.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.36$, $\langle L^2 \rangle = 0.19$	Xtriage
Estimated twinning fraction	0.077 for h,-k,-l	Xtriage
F_o, F_c correlation	0.72	EDS
Total number of atoms	56615	wwPDB-VP
Average B, all atoms (Å ²)	261.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.10% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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	0.68	27/10398 (0.3%)	1.22	125/14034 (0.9%)
1	M	0.69	25/10414 (0.2%)	1.22	128/14057 (0.9%)
2	B	0.65	20/8323 (0.2%)	1.14	81/11212 (0.7%)
2	N	0.65	19/8331 (0.2%)	1.14	81/11223 (0.7%)
3	C	0.70	6/1888 (0.3%)	1.24	22/2558 (0.9%)
3	O	0.70	6/1888 (0.3%)	1.24	22/2558 (0.9%)
4	D	0.74	6/1109 (0.5%)	1.24	17/1490 (1.1%)
4	P	0.72	4/1103 (0.4%)	1.24	16/1482 (1.1%)
5	E	0.60	3/1668 (0.2%)	1.06	9/2245 (0.4%)
5	Q	0.60	3/1668 (0.2%)	1.05	9/2245 (0.4%)
6	F	0.71	1/646 (0.2%)	1.19	8/873 (0.9%)
6	R	0.72	1/646 (0.2%)	1.18	9/873 (1.0%)
7	G	0.98	6/1207 (0.5%)	1.22	8/1629 (0.5%)
7	S	0.98	6/1207 (0.5%)	1.22	9/1629 (0.6%)
8	H	1.09	6/968 (0.6%)	1.12	8/1310 (0.6%)
8	T	1.09	6/968 (0.6%)	1.12	8/1310 (0.6%)
9	I	0.76	2/861 (0.2%)	1.14	12/1159 (1.0%)
9	U	0.76	2/861 (0.2%)	1.14	12/1159 (1.0%)
10	J	0.61	0/495	1.07	1/664 (0.2%)
10	V	0.61	0/495	1.08	2/664 (0.3%)
11	K	0.75	3/842 (0.4%)	1.24	11/1139 (1.0%)
11	W	0.74	3/842 (0.4%)	1.24	11/1139 (1.0%)
12	L	0.90	4/321 (1.2%)	1.21	4/425 (0.9%)
12	X	0.90	4/321 (1.2%)	1.20	4/425 (0.9%)
All	All	0.71	163/57470 (0.3%)	1.18	617/77502 (0.8%)

All (163) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	G	47	THR	CB-OG1	21.40	1.77	1.43
7	S	47	THR	CB-OG1	21.35	1.77	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	H	24	SER	CB-OG	20.09	1.82	1.42
8	T	24	SER	CB-OG	19.97	1.82	1.42
8	T	36	ILE	CB-CG1	14.08	1.81	1.53
8	H	36	ILE	CB-CG1	14.05	1.81	1.53
2	N	17	CYS	CB-SG	-11.83	1.42	1.81
2	B	17	CYS	CB-SG	-11.80	1.42	1.81
2	N	428	CYS	CB-SG	-11.39	1.43	1.81
2	B	428	CYS	CB-SG	-11.35	1.43	1.81
2	N	51	TRP	CB-CG	10.02	1.81	1.50
2	B	51	TRP	CB-CG	9.97	1.81	1.50
1	A	220	CYS	CB-SG	-9.65	1.49	1.81
1	M	220	CYS	CB-SG	-9.63	1.49	1.81
8	T	123	CYS	CB-SG	-9.13	1.51	1.81
8	H	123	CYS	CB-SG	-9.07	1.51	1.81
1	M	1021	GLN	CB-CG	9.02	1.79	1.52
1	A	996	CYS	CB-SG	-8.96	1.51	1.81
1	M	996	CYS	CB-SG	-8.95	1.51	1.81
1	A	1021	GLN	CB-CG	8.95	1.79	1.52
9	U	83	CYS	CB-SG	-8.87	1.51	1.81
9	I	83	CYS	CB-SG	-8.83	1.52	1.81
6	F	148	CYS	CB-SG	-8.63	1.52	1.81
6	R	148	CYS	CB-SG	-8.61	1.52	1.81
5	E	96	CYS	CB-SG	-8.60	1.52	1.81
4	D	121	CYS	CB-SG	-8.57	1.52	1.81
4	P	121	CYS	CB-SG	-8.56	1.52	1.81
5	Q	96	CYS	CB-SG	-8.55	1.53	1.81
1	M	239	VAL	CB-CG1	8.32	1.79	1.52
1	A	239	VAL	CB-CG2	8.27	1.79	1.52
7	S	94	VAL	CB-CG2	7.99	1.78	1.52
7	G	94	VAL	CB-CG1	7.96	1.78	1.52
1	A	521	VAL	CB-CG1	7.12	1.76	1.52
1	M	521	VAL	CB-CG2	7.11	1.76	1.52
1	A	1161	THR	CB-OG1	6.94	1.54	1.43
1	M	1161	THR	CB-OG1	6.73	1.54	1.43
2	N	1189	THR	CB-OG1	6.71	1.54	1.43
2	B	1189	THR	CB-OG1	6.63	1.54	1.43
3	O	116	SER	CB-OG	6.61	1.55	1.42
12	L	72	THR	CB-OG1	6.57	1.54	1.43
2	B	174	THR	CB-OG1	6.57	1.54	1.43
11	K	22	THR	CB-OG1	6.56	1.54	1.43
12	X	72	THR	CB-OG1	6.56	1.54	1.43
3	C	116	SER	CB-OG	6.55	1.55	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	W	22	THR	CB-OG1	6.49	1.54	1.43
2	N	174	THR	CB-OG1	6.48	1.54	1.43
2	N	599	SER	CB-OG	6.43	1.55	1.42
2	B	599	SER	CB-OG	6.38	1.54	1.42
1	A	257	THR	CB-OG1	6.36	1.53	1.43
8	H	11	THR	CB-OG1	6.35	1.53	1.43
1	M	257	THR	CB-OG1	6.33	1.53	1.43
8	T	11	THR	CB-OG1	6.31	1.53	1.43
1	M	1171	THR	CB-OG1	6.31	1.53	1.43
1	M	121	THR	CB-OG1	6.25	1.53	1.43
1	A	1171	THR	CB-OG1	6.23	1.53	1.43
1	A	121	THR	CB-OG1	6.19	1.53	1.43
1	M	939	SER	CB-OG	6.19	1.54	1.42
1	M	419	HIS	CB-CG	-6.17	1.41	1.50
2	N	878	THR	CB-OG1	6.13	1.53	1.43
1	A	939	SER	CB-OG	6.11	1.54	1.42
9	U	109	THR	CB-OG1	6.08	1.53	1.43
9	I	109	THR	CB-OG1	6.08	1.53	1.43
2	B	878	THR	CB-OG1	6.08	1.53	1.43
1	A	419	HIS	CB-CG	-6.06	1.41	1.50
11	K	57	THR	CB-OG1	6.04	1.53	1.43
1	M	686	SER	CB-OG	6.04	1.54	1.42
7	S	112	THR	CB-OG1	6.03	1.53	1.43
4	P	111	THR	CB-OG1	6.03	1.53	1.43
11	W	57	THR	CB-OG1	6.01	1.53	1.43
12	L	32	THR	CB-OG1	6.01	1.53	1.43
1	A	686	SER	CB-OG	5.98	1.54	1.42
12	X	32	THR	CB-OG1	5.98	1.53	1.43
7	G	112	THR	CB-OG1	5.95	1.53	1.43
4	D	111	THR	CB-OG1	5.94	1.53	1.43
11	K	81	THR	CB-OG1	5.93	1.53	1.43
4	D	80	SER	CB-OG	5.91	1.53	1.42
2	B	444	THR	CB-OG1	5.91	1.53	1.43
12	X	38	HIS	CB-CG	-5.90	1.41	1.50
4	D	68	SER	CB-OG	5.87	1.53	1.42
11	W	81	THR	CB-OG1	5.85	1.53	1.43
1	M	1330	THR	CB-OG1	5.85	1.53	1.43
2	N	444	THR	CB-OG1	5.85	1.53	1.43
1	A	1452	LEU	CB-CG	-5.84	1.41	1.53
3	C	47	LEU	CB-CG	-5.81	1.41	1.53
4	P	68	SER	CB-OG	5.81	1.53	1.42
12	L	38	HIS	CB-CG	-5.79	1.42	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	47	LEU	CB-CG	-5.78	1.41	1.53
2	B	703	THR	CB-OG1	5.78	1.52	1.43
1	M	1452	LEU	CB-CG	-5.78	1.41	1.53
2	N	703	THR	CB-OG1	5.75	1.52	1.43
1	A	1098	LEU	CB-CG	-5.72	1.42	1.53
2	B	591	SER	CB-OG	5.71	1.53	1.42
1	A	203	LEU	CB-CG	-5.67	1.42	1.53
1	A	1330	THR	CB-OG1	5.67	1.52	1.43
2	N	591	SER	CB-OG	5.65	1.53	1.42
1	M	1098	LEU	CB-CG	-5.64	1.42	1.53
1	M	932	SER	CB-OG	5.63	1.53	1.42
5	E	161	SER	CB-OG	5.63	1.53	1.42
2	N	567	HIS	CB-CG	-5.63	1.42	1.50
1	A	932	SER	CB-OG	5.62	1.53	1.42
1	M	1223	SER	CB-OG	5.61	1.53	1.42
1	M	203	LEU	CB-CG	-5.59	1.42	1.53
5	Q	161	SER	CB-OG	5.58	1.53	1.42
3	O	245	SER	CB-OG	5.58	1.53	1.42
1	M	729	SER	CB-OG	5.57	1.53	1.42
1	A	1223	SER	CB-OG	5.55	1.53	1.42
2	N	90	THR	CB-OG1	5.54	1.52	1.43
1	M	733	SER	CB-OG	5.54	1.53	1.42
2	B	90	THR	CB-OG1	5.53	1.52	1.43
3	C	208	THR	CB-OG1	5.51	1.52	1.43
1	A	729	SER	CB-OG	5.51	1.53	1.42
2	N	684	SER	CB-OG	5.50	1.53	1.42
3	C	245	SER	CB-OG	5.49	1.53	1.42
3	O	208	THR	CB-OG1	5.49	1.52	1.43
1	A	1283	SER	CB-OG	5.48	1.53	1.42
1	A	1293	SER	CB-OG	5.48	1.53	1.42
1	A	733	SER	CB-OG	5.47	1.53	1.42
2	B	684	SER	CB-OG	5.47	1.53	1.42
1	M	1293	SER	CB-OG	5.45	1.53	1.42
2	B	567	HIS	CB-CG	-5.45	1.42	1.50
1	M	1283	SER	CB-OG	5.42	1.52	1.42
3	C	2	SER	CB-OG	5.38	1.52	1.42
3	O	101	SER	CB-OG	5.38	1.52	1.42
8	T	130	SER	CB-OG	5.38	1.52	1.42
1	A	1150	SER	CB-OG	5.37	1.52	1.42
8	H	130	SER	CB-OG	5.36	1.52	1.42
1	M	665	ILE	CB-CG1	-5.36	1.42	1.53
2	N	881	THR	CB-OG1	5.36	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	2	SER	CB-OG	5.35	1.52	1.42
7	G	126	SER	CB-OG	5.32	1.52	1.42
1	A	665	ILE	CB-CG1	-5.31	1.42	1.53
1	M	1150	SER	CB-OG	5.28	1.52	1.42
3	C	101	SER	CB-OG	5.28	1.52	1.42
7	S	92	SER	CB-OG	5.28	1.52	1.42
2	N	648	THR	CB-OG1	5.28	1.52	1.43
2	B	881	THR	CB-OG1	5.26	1.52	1.43
7	G	92	SER	CB-OG	5.25	1.52	1.42
7	S	126	SER	CB-OG	5.24	1.52	1.42
2	B	44	THR	CB-OG1	5.24	1.52	1.43
2	B	648	THR	CB-OG1	5.23	1.52	1.43
2	N	88	THR	CB-OG1	5.23	1.52	1.43
2	N	683	THR	CB-OG1	5.22	1.52	1.43
4	P	52	SER	CB-OG	5.22	1.52	1.42
8	T	34	SER	CB-OG	5.21	1.52	1.42
8	H	34	SER	CB-OG	5.20	1.52	1.42
2	B	88	THR	CB-OG1	5.18	1.52	1.43
1	M	1219	SER	CB-OG	5.18	1.52	1.42
4	D	52	SER	CB-OG	5.17	1.52	1.42
2	N	44	THR	CB-OG1	5.17	1.52	1.43
1	A	1219	SER	CB-OG	5.16	1.52	1.42
2	B	683	THR	CB-OG1	5.15	1.51	1.43
12	L	67	SER	CB-OG	5.14	1.52	1.42
5	E	105	SER	CB-OG	5.11	1.52	1.42
5	Q	105	SER	CB-OG	5.10	1.52	1.42
7	G	65	SER	CB-OG	5.09	1.52	1.42
12	X	67	SER	CB-OG	5.07	1.52	1.42
7	S	65	SER	CB-OG	5.07	1.52	1.42
2	N	568	THR	CB-OG1	5.05	1.51	1.43
4	D	27	LEU	CB-CG	-5.05	1.43	1.53
1	A	40	ILE	CB-CG1	-5.03	1.43	1.53
2	B	1224	SER	CB-OG	5.03	1.52	1.42
1	A	749	SER	CB-OG	5.03	1.52	1.42
2	B	568	THR	CB-OG1	5.02	1.51	1.43

All (617) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	T	17	ASN	CA-CB-CG	-12.08	100.52	112.60
8	H	17	ASN	CA-CB-CG	-12.03	100.57	112.60
1	A	453	LYS	N-CA-C	-10.62	99.50	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	267	LEU	N-CA-C	-10.62	96.75	112.04
1	M	267	LEU	N-CA-C	-10.60	96.78	112.04
1	M	453	LYS	N-CA-C	-10.49	99.65	111.82
2	N	288	GLU	N-CA-C	-9.95	101.26	113.50
2	B	288	GLU	N-CA-C	-9.83	101.41	113.50
1	M	1066	VAL	N-CA-C	9.62	120.46	110.36
4	P	27	LEU	N-CA-C	-9.53	101.58	113.02
4	D	27	LEU	N-CA-C	-9.49	101.63	113.02
1	A	1066	VAL	N-CA-C	9.48	120.32	110.36
1	M	302	ALA	N-CA-C	-9.41	100.98	111.14
1	A	302	ALA	N-CA-C	-9.36	101.03	111.14
3	C	38	ALA	N-CA-C	9.31	125.58	114.04
6	F	76	LYS	N-CA-C	-9.28	101.06	112.38
3	O	38	ALA	N-CA-C	9.24	125.50	114.04
6	R	76	LYS	N-CA-C	-9.23	101.12	112.38
2	N	1009	ASP	N-CA-C	-8.86	102.60	113.41
12	X	29	VAL	CA-CB-CG1	8.80	125.36	110.40
12	L	29	VAL	CA-CB-CG2	8.79	125.33	110.40
2	B	1009	ASP	N-CA-C	-8.76	102.73	113.41
1	M	220	CYS	N-CA-C	-8.52	100.62	111.02
1	A	220	CYS	N-CA-C	-8.49	100.66	111.02
1	A	1294	VAL	CA-C-N	8.48	130.44	119.84
1	A	1294	VAL	C-N-CA	8.48	130.44	119.84
1	A	243	PRO	CA-C-N	8.39	129.02	120.38
1	A	243	PRO	C-N-CA	8.39	129.02	120.38
1	M	1294	VAL	CA-C-N	8.39	130.33	119.84
1	M	1294	VAL	C-N-CA	8.39	130.33	119.84
1	A	1379	THR	N-CA-C	8.37	120.17	111.14
1	M	1379	THR	N-CA-C	8.32	120.13	111.14
2	B	599	SER	N-CA-C	-8.30	102.94	113.23
5	E	62	ASN	N-CA-C	8.27	117.85	108.25
2	B	466	MET	N-CA-C	-8.26	103.20	113.28
2	N	599	SER	N-CA-C	-8.26	102.99	113.23
1	M	243	PRO	CA-C-N	8.25	128.88	120.38
1	M	243	PRO	C-N-CA	8.25	128.88	120.38
2	N	466	MET	N-CA-C	-8.25	103.22	113.28
4	D	138	HIS	CA-C-N	8.24	130.14	119.84
4	D	138	HIS	C-N-CA	8.24	130.14	119.84
2	B	678	TRP	N-CA-C	-8.17	103.45	113.50
2	N	678	TRP	N-CA-C	-8.15	103.48	113.50
3	O	39	GLU	N-CA-C	8.12	122.97	112.26
4	P	138	HIS	CA-C-N	8.10	129.97	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	P	138	HIS	C-N-CA	8.10	129.97	119.84
3	C	39	GLU	N-CA-C	8.09	122.94	112.26
2	B	1185	CYS	N-CA-C	-8.06	101.15	113.89
11	W	54	PRO	N-CA-CB	8.05	111.71	103.25
2	N	1185	CYS	N-CA-C	-8.01	101.24	113.89
11	K	54	PRO	N-CA-CB	7.99	111.64	103.25
1	A	198	PRO	N-CA-CB	7.86	111.50	103.25
1	A	984	THR	N-CA-C	-7.86	99.94	110.55
1	M	198	PRO	N-CA-CB	7.84	111.48	103.25
1	M	984	THR	N-CA-C	-7.79	100.03	110.55
1	A	1409	VAL	N-CA-C	7.71	118.30	110.82
1	M	1409	VAL	N-CA-C	7.70	118.29	110.82
2	N	728	PRO	N-CA-CB	7.70	111.47	103.00
2	B	728	PRO	N-CA-CB	7.66	111.43	103.00
3	O	124	PRO	N-CA-CB	7.64	110.78	103.52
11	W	17	PRO	N-CA-CB	7.63	110.99	102.67
1	A	1265	ARG	N-CA-C	-7.62	102.62	112.23
3	C	124	PRO	N-CA-CB	7.61	110.75	103.52
1	A	217	PRO	N-CA-CB	7.61	111.70	103.33
1	M	1265	ARG	N-CA-C	-7.59	102.67	112.23
11	K	51	ALA	N-CA-C	-7.58	104.13	113.15
11	K	17	PRO	N-CA-CB	7.58	110.93	102.67
4	P	32	PRO	N-CA-CB	7.57	110.72	103.52
1	M	568	LYS	CA-C-N	-7.57	110.38	119.84
1	M	568	LYS	C-N-CA	-7.57	110.38	119.84
11	W	51	ALA	N-CA-C	-7.54	104.17	113.15
1	M	217	PRO	N-CA-CB	7.53	111.61	103.33
4	D	32	PRO	N-CA-CB	7.52	110.67	103.52
2	N	99	MET	N-CA-C	7.52	120.70	110.55
1	A	1314	ILE	N-CA-C	7.47	120.11	107.18
1	M	1314	ILE	N-CA-C	7.46	120.09	107.18
1	A	568	LYS	CA-C-N	-7.46	110.52	119.84
1	A	568	LYS	C-N-CA	-7.46	110.52	119.84
2	B	99	MET	N-CA-C	7.41	120.55	110.55
1	M	707	PRO	N-CA-CB	7.40	111.02	103.25
1	A	707	PRO	N-CA-CB	7.38	111.00	103.25
2	B	548	ILE	N-CA-C	-7.37	103.60	110.53
2	N	548	ILE	N-CA-C	-7.36	103.61	110.53
1	A	1380	SER	N-CA-C	7.36	123.51	111.37
1	M	1380	SER	N-CA-C	7.32	123.45	111.37
1	A	48	PRO	N-CA-CB	7.25	110.87	103.25
1	M	244	PRO	CA-C-N	7.24	128.89	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	244	PRO	C-N-CA	7.24	128.89	119.84
1	M	48	PRO	N-CA-CB	7.23	110.84	103.25
1	A	244	PRO	CA-C-N	7.23	128.87	119.84
1	A	244	PRO	C-N-CA	7.23	128.87	119.84
2	B	289	ILE	N-CA-C	-7.18	104.77	111.45
1	A	698	ALA	N-CA-C	-7.12	105.12	113.88
1	A	1280	PRO	N-CA-CB	7.12	110.83	103.00
1	A	591	ARG	N-CA-C	7.10	119.38	108.30
1	M	698	ALA	N-CA-C	-7.10	105.15	113.88
2	N	289	ILE	N-CA-C	-7.10	104.85	111.45
1	M	1280	PRO	N-CA-CB	7.05	110.75	103.00
1	M	591	ARG	N-CA-C	7.04	119.28	108.30
1	A	30	ILE	N-CA-C	7.02	117.78	110.62
1	M	30	ILE	N-CA-C	7.01	117.77	110.62
2	B	543	PRO	N-CA-CB	7.00	110.61	103.25
2	N	543	PRO	N-CA-CB	7.00	110.60	103.25
3	C	124	PRO	CA-CB-CG	6.98	117.76	104.50
1	A	23	SER	N-CA-C	-6.98	100.86	109.65
4	D	153	VAL	N-CA-C	-6.96	103.42	111.00
1	M	683	ALA	N-CA-C	-6.96	103.98	113.30
3	O	124	PRO	CA-CB-CG	6.96	117.72	104.50
4	P	153	VAL	N-CA-C	-6.95	103.43	111.00
1	A	683	ALA	N-CA-C	-6.94	104.00	113.30
1	M	23	SER	N-CA-C	-6.94	100.91	109.65
2	B	317	GLN	N-CA-C	6.94	120.41	112.57
2	N	317	GLN	N-CA-C	6.91	120.38	112.57
2	B	876	LYS	CA-C-N	6.89	126.88	119.78
2	B	876	LYS	C-N-CA	6.89	126.88	119.78
12	X	47	PRO	N-CA-CB	6.87	110.46	103.25
12	L	47	PRO	N-CA-CB	6.86	110.45	103.25
1	M	413	ARG	N-CA-C	6.83	120.04	108.90
2	N	876	LYS	CA-C-N	6.83	126.82	119.78
2	N	876	LYS	C-N-CA	6.83	126.82	119.78
4	D	184	PRO	N-CA-CB	6.82	110.54	103.38
2	B	1045	THR	CA-C-N	6.82	128.36	119.84
2	B	1045	THR	C-N-CA	6.82	128.36	119.84
4	P	184	PRO	N-CA-CB	6.81	110.53	103.38
9	U	85	PHE	N-CA-C	6.80	117.02	108.45
1	A	413	ARG	N-CA-C	6.80	119.98	108.90
9	I	85	PHE	N-CA-C	6.79	117.01	108.45
2	N	1045	THR	CA-C-N	6.78	128.31	119.84
2	N	1045	THR	C-N-CA	6.78	128.31	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	585	ASP	CA-C-N	6.76	128.30	119.84
2	B	585	ASP	C-N-CA	6.76	128.30	119.84
1	M	134	ARG	N-CA-C	-6.76	103.53	111.03
1	A	134	ARG	N-CA-C	-6.75	103.53	111.03
1	M	65	PHE	CA-CB-CG	6.73	120.53	113.80
1	A	65	PHE	CA-CB-CG	6.72	120.52	113.80
2	N	682	VAL	CA-CB-CG1	6.71	121.81	110.40
2	B	682	VAL	CA-CB-CG2	6.71	121.81	110.40
3	C	192	TRP	N-CA-C	-6.68	101.53	110.55
2	N	945	GLU	N-CA-C	6.67	120.20	109.86
2	B	945	GLU	N-CA-C	6.65	120.17	109.86
3	O	192	TRP	N-CA-C	-6.65	101.57	110.55
3	O	225	PRO	N-CA-CB	6.63	110.21	103.25
1	M	986	PRO	N-CA-CB	6.62	110.85	103.44
5	Q	8	ILE	N-CA-C	-6.62	105.87	111.56
11	W	11	ILE	CA-CB-CG1	6.61	121.63	110.40
3	C	225	PRO	N-CA-CB	6.59	110.17	103.25
1	M	120	PRO	N-CA-CB	6.59	110.17	103.25
11	K	11	ILE	CA-CB-CG1	6.58	121.58	110.40
1	M	583	ILE	CA-C-N	6.57	126.55	119.78
1	M	583	ILE	C-N-CA	6.57	126.55	119.78
1	A	986	PRO	N-CA-CB	6.56	110.79	103.44
2	N	585	ASP	CA-C-N	6.56	128.04	119.84
2	N	585	ASP	C-N-CA	6.56	128.04	119.84
2	N	161	VAL	N-CA-C	6.56	115.11	107.77
2	N	1096	ARG	N-CA-C	-6.55	102.07	110.19
8	H	83	PRO	N-CA-CB	6.53	110.11	103.25
1	A	583	ILE	CA-C-N	6.53	126.50	119.78
1	A	583	ILE	C-N-CA	6.53	126.50	119.78
2	B	1096	ARG	N-CA-C	-6.52	102.11	110.19
5	E	8	ILE	N-CA-C	-6.50	105.97	111.56
4	P	55	GLU	N-CA-C	-6.50	104.23	111.71
1	M	240	LEU	N-CA-C	6.50	119.04	109.42
1	A	426	VAL	N-CA-C	-6.50	98.26	107.75
1	A	384	TYR	N-CA-C	-6.49	105.89	113.88
7	S	123	PRO	N-CA-CB	6.47	110.05	103.25
2	B	161	VAL	N-CA-C	6.47	115.02	107.77
1	M	426	VAL	N-CA-C	-6.46	98.32	107.75
2	N	1013	ASN	N-CA-C	6.45	117.78	109.65
1	A	120	PRO	N-CA-CB	6.45	110.02	103.25
1	A	240	LEU	N-CA-C	6.45	118.97	109.42
1	M	384	TYR	N-CA-C	-6.45	105.95	113.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	N	593	MET	N-CA-C	-6.44	104.18	111.07
2	B	593	MET	N-CA-C	-6.42	104.20	111.07
1	M	280	LEU	N-CA-C	-6.41	105.09	114.39
2	B	1013	ASN	N-CA-C	6.41	117.73	109.65
1	A	225	PHE	N-CA-C	6.41	118.92	109.69
7	G	123	PRO	N-CA-CB	6.40	109.97	103.25
10	J	63	ASN	N-CA-C	6.40	123.95	109.81
10	V	63	ASN	N-CA-C	6.40	123.95	109.81
4	D	55	GLU	N-CA-C	-6.39	104.36	111.71
1	M	225	PHE	N-CA-C	6.37	118.86	109.69
6	F	80	THR	N-CA-C	6.37	121.08	113.12
1	A	1124	ARG	CA-CB-CG	-6.36	101.39	114.10
8	T	128	TYR	N-CA-C	6.36	120.34	112.59
8	T	83	PRO	N-CA-CB	6.34	109.91	103.25
8	H	128	TYR	N-CA-C	6.34	120.32	112.59
9	U	28	SER	N-CA-C	6.33	116.36	108.19
1	A	280	LEU	N-CA-C	-6.33	105.20	114.39
1	M	1124	ARG	CA-CB-CG	-6.33	101.44	114.10
1	M	563	GLN	CA-C-N	6.32	127.74	119.84
1	M	563	GLN	C-N-CA	6.32	127.74	119.84
11	W	13	PRO	N-CA-CB	6.32	109.88	103.25
6	R	80	THR	N-CA-C	6.32	121.02	113.12
11	K	13	PRO	N-CA-CB	6.31	109.88	103.25
1	A	563	GLN	CA-C-N	6.31	127.73	119.84
1	A	563	GLN	C-N-CA	6.31	127.73	119.84
9	I	65	ASP	CA-C-N	6.30	127.72	119.84
9	I	65	ASP	C-N-CA	6.30	127.72	119.84
11	W	107	GLU	N-CA-C	-6.30	104.33	111.07
2	N	1201	LYS	N-CA-C	-6.30	103.56	111.11
1	M	956	TRP	N-CA-C	6.29	115.55	108.25
11	K	107	GLU	N-CA-C	-6.28	104.35	111.07
9	I	28	SER	N-CA-C	6.26	116.27	108.19
1	M	1280	PRO	CA-CB-CG	6.25	116.38	104.50
9	U	68	LEU	CA-C-N	6.22	126.19	120.03
9	U	68	LEU	C-N-CA	6.22	126.19	120.03
11	W	18	LYS	N-CA-C	-6.22	103.65	111.11
1	A	956	TRP	N-CA-C	6.21	115.45	108.25
2	B	1201	LYS	N-CA-C	-6.20	103.67	111.11
2	N	881	THR	N-CA-C	6.20	124.00	110.80
11	K	18	LYS	N-CA-C	-6.19	103.68	111.11
2	N	186	CYS	CA-C-N	6.19	125.68	119.24
2	N	186	CYS	C-N-CA	6.19	125.68	119.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	U	65	ASP	CA-C-N	6.19	127.58	119.84
9	U	65	ASP	C-N-CA	6.19	127.58	119.84
1	A	1280	PRO	CA-CB-CG	6.18	116.24	104.50
6	F	111	ILE	CA-CB-CG1	6.18	120.91	110.40
2	B	881	THR	N-CA-C	6.18	123.96	110.80
1	M	684	ILE	N-CA-C	-6.18	106.78	112.96
6	R	111	ILE	CA-CB-CG1	6.17	120.89	110.40
1	A	97	PRO	N-CA-CB	6.17	109.73	103.25
9	I	68	LEU	CA-C-N	6.16	126.13	120.03
9	I	68	LEU	C-N-CA	6.16	126.13	120.03
1	A	60	SER	N-CA-C	6.16	118.14	108.96
1	M	60	SER	N-CA-C	6.15	118.12	108.96
2	B	638	SER	N-CA-C	-6.14	106.15	113.21
1	M	97	PRO	N-CA-CB	6.14	109.69	103.25
2	B	528	LEU	N-CA-C	-6.13	105.44	113.17
2	N	528	LEU	N-CA-C	-6.13	105.45	113.17
1	A	1024	VAL	CA-CB-CG2	6.12	120.81	110.40
1	M	1024	VAL	CA-CB-CG1	6.12	120.81	110.40
11	W	54	PRO	CA-CB-CG	6.12	116.13	104.50
11	K	54	PRO	CA-CB-CG	6.12	116.12	104.50
6	F	83	PRO	N-CA-C	-6.12	106.12	114.80
3	C	260	PHE	CA-CB-CG	6.11	119.91	113.80
11	K	20	LYS	N-CA-C	-6.11	98.12	108.26
11	W	20	LYS	N-CA-C	-6.11	98.12	108.26
1	A	684	ILE	N-CA-C	-6.09	106.87	112.96
1	A	55	ASP	CA-C-N	-6.08	112.24	119.84
1	A	55	ASP	C-N-CA	-6.08	112.24	119.84
1	M	244	PRO	N-CA-C	6.08	118.11	110.70
6	R	83	PRO	N-CA-C	-6.07	106.18	114.80
1	M	55	ASP	CA-C-N	-6.07	112.25	119.84
1	M	55	ASP	C-N-CA	-6.07	112.25	119.84
3	O	260	PHE	CA-CB-CG	6.05	119.85	113.80
2	B	186	CYS	CA-C-N	6.05	125.53	119.24
2	B	186	CYS	C-N-CA	6.05	125.53	119.24
3	C	267	PRO	N-CA-CB	6.05	109.75	103.15
1	A	244	PRO	N-CA-C	6.04	118.08	110.70
1	A	1023	LEU	N-CA-C	-6.04	104.69	111.28
1	M	1023	LEU	N-CA-C	-6.04	104.70	111.28
2	N	638	SER	N-CA-C	-6.03	106.28	113.21
3	C	188	HIS	N-CA-C	-6.02	106.28	113.21
5	Q	62	ASN	N-CA-C	6.02	117.95	108.55
1	A	929	GLU	N-CA-C	-6.02	104.83	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	929	GLU	N-CA-C	-6.00	104.86	111.82
9	I	25	LEU	N-CA-C	5.99	120.03	109.96
1	A	1415	ALA	N-CA-C	-5.99	106.52	113.88
3	O	267	PRO	N-CA-CB	5.98	109.67	103.15
8	T	84	THR	N-CA-C	-5.97	104.84	111.71
3	O	188	HIS	N-CA-C	-5.97	106.35	113.21
1	M	62	ASP	N-CA-C	5.96	123.49	110.80
9	U	25	LEU	N-CA-C	5.95	119.96	109.96
1	A	62	ASP	N-CA-C	5.94	123.45	110.80
7	S	147	VAL	N-CA-C	5.94	115.80	107.37
1	M	1415	ALA	N-CA-C	-5.93	106.59	113.88
11	W	66	PRO	N-CA-C	5.93	121.55	113.84
7	G	12	THR	N-CA-C	-5.92	100.91	110.32
8	H	36	ILE	N-CA-C	5.92	116.96	107.73
1	M	1178	ILE	CA-CB-CG1	5.91	120.45	110.40
11	K	66	PRO	N-CA-C	5.91	121.52	113.84
1	A	1178	ILE	CA-CB-CG1	5.91	120.44	110.40
1	A	969	ALA	N-CA-C	-5.90	104.75	111.07
7	G	147	VAL	N-CA-C	5.90	115.75	107.37
8	H	84	THR	N-CA-C	-5.90	104.92	111.71
7	S	12	THR	N-CA-C	-5.90	100.94	110.32
1	M	131	PRO	N-CA-CB	5.89	109.43	103.25
2	B	1210	MET	N-CA-C	-5.88	105.30	112.88
1	M	321	ARG	CA-C-N	5.87	125.57	119.05
1	M	321	ARG	C-N-CA	5.87	125.57	119.05
1	M	969	ALA	N-CA-C	-5.87	104.79	111.07
1	M	1297	GLU	CA-CB-CG	-5.86	102.38	114.10
1	A	131	PRO	N-CA-CB	5.86	109.40	103.25
2	B	655	ILE	CA-CB-CG1	5.86	120.36	110.40
2	N	509	ASN	N-CA-C	-5.85	104.53	111.03
1	A	1079	THR	N-CA-C	-5.85	105.40	112.54
2	N	655	ILE	CA-CB-CG1	5.85	120.34	110.40
7	G	147	VAL	CB-CA-C	-5.85	105.60	111.80
1	M	1079	THR	N-CA-C	-5.85	105.41	112.54
2	B	894	ASP	N-CA-C	-5.85	102.79	110.33
2	B	509	ASN	N-CA-C	-5.84	104.54	111.03
2	N	1037	ILE	CA-CB-CG1	5.84	120.33	110.40
2	N	1210	MET	N-CA-C	-5.84	105.34	112.88
8	T	36	ILE	N-CA-C	5.84	116.83	107.73
1	A	1297	GLU	CA-CB-CG	-5.82	102.46	114.10
2	B	1037	ILE	CA-CB-CG1	5.81	120.28	110.40
2	N	894	ASP	N-CA-C	-5.80	102.84	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	807	GLN	N-CA-C	-5.80	105.04	111.71
1	M	468	THR	N-CA-C	5.80	117.95	108.55
1	A	321	ARG	CA-C-N	5.80	125.49	119.05
1	A	321	ARG	C-N-CA	5.80	125.49	119.05
2	B	834	ASN	N-CA-C	-5.80	105.40	112.88
1	A	468	THR	N-CA-C	5.79	117.93	108.55
8	T	102	LYS	N-CA-C	5.79	119.05	110.48
1	A	1166	GLU	CA-CB-CG	-5.79	102.53	114.10
2	N	801	LYS	N-CA-C	-5.79	102.48	109.83
2	N	807	GLN	N-CA-C	-5.78	105.06	111.71
8	H	102	LYS	N-CA-C	5.78	119.04	110.48
2	B	801	LYS	N-CA-C	-5.78	102.49	109.83
1	M	400	HIS	CA-C-N	-5.76	112.64	119.84
1	M	400	HIS	C-N-CA	-5.76	112.64	119.84
2	N	834	ASN	N-CA-C	-5.76	105.45	112.88
2	B	882	THR	N-CA-C	5.76	120.37	111.56
9	I	6	PHE	CB-CA-C	-5.76	108.78	117.07
3	C	267	PRO	CA-CB-CG	5.75	115.43	104.50
1	M	1166	GLU	CA-CB-CG	-5.75	102.59	114.10
2	B	1044	ALA	N-CA-C	-5.75	106.13	114.12
1	M	246	GLN	CA-CB-CG	-5.74	102.62	114.10
2	B	199	SER	N-CA-C	5.74	118.33	110.24
2	N	697	THR	N-CA-C	5.73	119.05	112.57
6	R	143	TYR	N-CA-C	5.73	116.94	108.86
7	G	112	THR	N-CA-C	-5.73	106.00	112.87
6	F	143	TYR	N-CA-C	5.73	116.93	108.86
7	S	147	VAL	CB-CA-C	-5.72	105.73	111.80
1	M	1029	ALA	N-CA-C	-5.72	101.17	110.20
2	N	199	SER	N-CA-C	5.72	118.30	110.24
9	U	6	PHE	CB-CA-C	-5.71	108.85	117.07
2	N	1044	ALA	N-CA-C	-5.71	106.19	114.12
1	A	400	HIS	CA-C-N	-5.70	112.71	119.84
1	A	400	HIS	C-N-CA	-5.70	112.71	119.84
3	O	267	PRO	CA-CB-CG	5.70	115.33	104.50
5	E	62	ASN	CA-C-N	5.69	126.95	119.84
5	E	62	ASN	C-N-CA	5.69	126.95	119.84
2	N	690	VAL	N-CA-C	5.69	115.99	107.51
2	B	690	VAL	N-CA-C	5.69	115.99	107.51
2	B	805	LYS	N-CA-C	5.68	117.61	109.14
5	Q	4	ASN	N-CA-C	-5.68	106.22	114.12
1	A	1029	ALA	N-CA-C	-5.68	101.23	110.20
2	B	697	THR	N-CA-C	5.67	118.98	112.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	N	882	THR	N-CA-C	5.67	120.24	111.56
1	A	222	ARG	N-CA-C	-5.67	105.11	111.28
1	A	246	GLN	CA-CB-CG	-5.67	102.77	114.10
1	A	986	PRO	CA-CB-CG	5.66	115.25	104.50
1	M	396	GLY	CA-C-N	5.64	126.38	120.12
1	M	396	GLY	C-N-CA	5.64	126.38	120.12
2	N	805	LYS	N-CA-C	5.64	117.54	109.14
9	I	97	MET	N-CA-C	5.62	116.47	108.54
1	A	363	ASP	N-CA-C	5.62	120.00	113.20
6	F	155	ASN	CA-CB-CG	5.61	118.21	112.60
1	M	222	ARG	N-CA-C	-5.60	105.17	111.28
7	S	112	THR	N-CA-C	-5.60	106.15	112.87
1	M	986	PRO	CA-CB-CG	5.60	115.14	104.50
5	E	4	ASN	N-CA-C	-5.60	106.34	114.12
4	P	39	TYR	N-CA-C	5.60	118.08	109.07
5	Q	62	ASN	CA-C-N	5.60	126.84	119.84
5	Q	62	ASN	C-N-CA	5.60	126.84	119.84
2	N	420	GLU	N-CA-C	-5.59	103.98	112.04
1	A	28	ARG	N-CA-C	-5.58	104.89	110.97
4	D	39	TYR	N-CA-C	5.58	118.05	109.07
2	N	416	LYS	N-CA-C	-5.58	105.97	112.89
1	M	363	ASP	N-CA-C	5.57	119.94	113.20
1	M	425	ILE	N-CA-C	5.55	120.89	109.34
5	E	65	PRO	N-CA-CB	5.55	109.51	103.30
1	A	242	VAL	N-CA-C	5.54	112.61	107.56
1	M	242	VAL	N-CA-C	5.54	112.61	107.56
2	N	832	GLY	N-CA-C	-5.54	106.00	115.08
6	R	155	ASN	CA-CB-CG	5.54	118.14	112.60
2	B	420	GLU	N-CA-C	-5.54	104.06	112.04
1	M	290	ILE	N-CA-C	-5.54	106.30	111.45
2	B	832	GLY	N-CA-C	-5.53	106.01	115.08
1	A	396	GLY	CA-C-N	5.53	126.26	120.12
1	A	396	GLY	C-N-CA	5.53	126.26	120.12
7	S	141	SER	N-CA-C	5.53	118.08	110.35
2	B	416	LYS	N-CA-C	-5.52	106.04	112.89
1	M	695	ILE	N-CA-C	-5.52	105.73	111.58
5	Q	65	PRO	N-CA-CB	5.52	109.48	103.30
1	A	828	THR	N-CA-C	-5.52	106.25	112.87
9	U	97	MET	N-CA-C	5.52	116.32	108.54
1	M	553	TRP	CA-C-N	-5.52	118.85	122.60
1	M	553	TRP	C-N-CA	-5.52	118.85	122.60
1	M	78	PRO	N-CA-C	-5.52	103.50	111.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	N	651	HIS	N-CA-C	-5.51	105.35	111.36
2	B	722	THR	N-CA-CB	-5.50	102.59	110.57
7	G	141	SER	N-CA-C	5.50	118.06	110.35
3	C	165	LYS	N-CA-C	-5.50	104.97	110.97
2	N	722	THR	N-CA-CB	-5.50	102.60	110.57
3	O	165	LYS	N-CA-C	-5.50	104.98	110.97
1	M	828	THR	N-CA-C	-5.49	106.28	112.87
2	B	520	THR	CA-C-N	5.49	125.50	119.90
2	B	520	THR	C-N-CA	5.49	125.50	119.90
2	B	544	SER	N-CA-C	5.49	117.13	111.03
2	B	651	HIS	N-CA-C	-5.49	105.37	111.36
1	M	770	MET	N-CA-C	5.48	117.42	108.76
1	A	290	ILE	N-CA-C	-5.48	106.35	111.45
1	A	425	ILE	N-CA-C	5.48	120.74	109.34
3	C	215	PRO	N-CA-CB	5.48	109.01	103.25
1	M	287	GLN	N-CA-C	5.48	122.48	110.80
1	A	695	ILE	N-CA-C	-5.48	105.77	111.58
1	M	431	TRP	N-CA-C	-5.48	103.15	110.55
2	N	520	THR	CA-C-N	5.48	125.49	119.90
2	N	520	THR	C-N-CA	5.48	125.49	119.90
1	A	78	PRO	N-CA-C	-5.48	103.55	111.22
1	M	28	ARG	N-CA-C	-5.48	105.00	110.97
1	A	431	TRP	N-CA-C	-5.47	103.17	110.55
2	B	621	THR	N-CA-C	-5.46	107.16	113.88
7	S	63	PRO	N-CA-C	5.46	121.28	113.47
2	N	22	SER	N-CA-C	-5.46	104.56	111.11
2	B	56	LEU	N-CA-C	5.46	117.79	108.90
1	M	88	LYS	CA-C-N	5.46	125.46	119.90
1	M	88	LYS	C-N-CA	5.46	125.46	119.90
2	B	22	SER	N-CA-C	-5.45	104.57	111.11
2	B	290	LEU	N-CA-C	-5.44	106.48	113.01
2	N	56	LEU	N-CA-C	5.44	117.77	108.90
1	A	221	PHE	CA-CB-CG	-5.44	108.36	113.80
1	A	770	MET	N-CA-C	5.42	117.33	108.76
1	A	88	LYS	CA-C-N	5.42	125.43	119.90
1	A	88	LYS	C-N-CA	5.42	125.43	119.90
1	A	287	GLN	N-CA-C	5.42	122.34	110.80
1	A	583	ILE	N-CA-C	5.39	113.21	107.76
1	M	782	ASP	N-CA-C	5.39	119.02	111.90
2	N	54	PRO	N-CA-CB	5.39	108.91	103.25
7	G	63	PRO	N-CA-C	5.39	121.17	113.47
2	N	621	THR	N-CA-C	-5.39	107.25	113.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	197	GLN	CA-CB-CG	-5.38	103.33	114.10
1	M	512	ILE	N-CA-C	5.38	118.60	111.17
3	O	239	LYS	CA-CB-CG	-5.38	103.33	114.10
4	D	32	PRO	CA-CB-CG	5.38	114.72	104.50
1	A	782	ASP	N-CA-C	5.38	119.00	111.90
4	D	184	PRO	CA-CB-CG	5.38	114.72	104.50
3	O	215	PRO	N-CA-CB	5.38	108.90	103.25
4	P	184	PRO	CA-CB-CG	5.38	114.72	104.50
1	M	221	PHE	CA-CB-CG	-5.38	108.42	113.80
2	B	354	LEU	CA-C-N	5.37	126.55	119.84
2	B	354	LEU	C-N-CA	5.37	126.55	119.84
8	H	42	ILE	N-CA-C	5.37	115.29	107.88
3	O	131	GLU	CA-C-N	5.37	126.55	119.84
3	O	131	GLU	C-N-CA	5.37	126.55	119.84
3	C	239	LYS	CA-CB-CG	-5.36	103.37	114.10
9	I	31	ASN	N-CA-C	-5.36	107.39	114.04
1	M	407	ILE	N-CA-C	5.36	115.80	107.28
1	M	1425	ARG	N-CA-C	-5.35	106.76	113.72
2	N	544	SER	N-CA-C	5.35	116.97	111.03
11	W	81	THR	CA-CB-OG1	5.35	117.63	109.60
9	U	112	ASP	N-CA-C	-5.35	106.69	114.12
1	A	512	ILE	N-CA-C	5.34	118.55	111.17
9	I	112	ASP	N-CA-C	-5.34	106.69	114.12
11	K	81	THR	CA-CB-OG1	5.34	117.62	109.60
1	A	407	ILE	N-CA-C	5.34	115.78	107.28
1	A	1425	ARG	N-CA-C	-5.34	106.78	113.72
2	N	354	LEU	CA-C-N	5.34	126.51	119.84
2	N	354	LEU	C-N-CA	5.34	126.51	119.84
3	C	131	GLU	CA-C-N	5.33	126.51	119.84
3	C	131	GLU	C-N-CA	5.33	126.51	119.84
1	M	583	ILE	N-CA-C	5.33	113.15	107.76
6	F	103	MET	N-CA-C	-5.33	106.64	112.72
6	R	103	MET	N-CA-C	-5.33	106.64	112.72
4	P	32	PRO	CA-CB-CG	5.33	114.62	104.50
1	A	553	TRP	CA-C-N	-5.33	118.98	122.60
1	A	553	TRP	C-N-CA	-5.33	118.98	122.60
1	M	197	GLN	CA-CB-CG	-5.33	103.45	114.10
2	N	1000	PRO	N-CA-C	-5.32	103.48	111.57
2	N	290	LEU	N-CA-C	-5.32	106.62	113.01
2	B	1000	PRO	N-CA-C	-5.31	103.49	111.57
2	N	527	GLY	N-CA-C	-5.31	107.21	114.64
1	A	383	GLN	CA-CB-CG	-5.30	103.49	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	E	65	PRO	CA-CB-CG	5.30	114.57	104.50
8	T	42	ILE	N-CA-C	5.30	115.19	107.88
9	U	31	ASN	N-CA-C	-5.30	107.47	114.04
2	B	527	GLY	N-CA-C	-5.29	107.23	114.64
1	A	1106	ILE	N-CA-C	5.28	115.42	110.30
3	C	29	ALA	N-CA-C	-5.28	105.22	110.97
4	D	115	PHE	N-CA-C	5.28	115.00	108.19
2	N	326	ILE	N-CA-C	-5.28	98.37	109.34
8	H	115	VAL	N-CA-C	5.27	115.44	107.80
3	O	29	ALA	N-CA-C	-5.27	105.23	110.97
5	Q	131	ILE	N-CA-C	5.27	116.06	108.48
2	B	326	ILE	N-CA-C	-5.26	98.39	109.34
12	L	58	ILE	N-CA-C	5.26	120.29	109.34
1	A	345	ARG	N-CA-C	-5.26	102.49	110.28
1	A	1115	THR	CA-C-N	-5.26	113.26	119.84
1	A	1115	THR	C-N-CA	-5.26	113.26	119.84
3	O	215	PRO	CA-CB-CG	5.26	114.49	104.50
1	M	383	GLN	CA-CB-CG	-5.25	103.59	114.10
2	N	939	THR	N-CA-C	5.25	116.28	109.72
2	B	54	PRO	N-CA-CB	5.25	108.76	103.25
5	E	131	ILE	N-CA-C	5.25	116.04	108.48
2	N	1017	ILE	CA-C-N	5.25	124.70	119.24
2	N	1017	ILE	C-N-CA	5.25	124.70	119.24
1	A	353	VAL	N-CA-C	5.25	115.86	108.36
3	C	215	PRO	CA-CB-CG	5.25	114.47	104.50
5	Q	65	PRO	CA-CB-CG	5.24	114.46	104.50
6	F	111	ILE	N-CA-C	-5.24	98.44	109.34
2	N	26	GLU	N-CA-C	-5.24	105.68	111.71
3	C	232	VAL	N-CA-C	5.24	114.29	106.85
1	A	887	ILE	N-CA-C	5.24	119.21	112.67
2	B	26	GLU	N-CA-C	-5.24	105.69	111.71
1	A	1266	ILE	N-CA-C	-5.23	106.78	112.80
3	C	155	ILE	CA-CB-CG1	5.23	119.30	110.40
6	R	111	ILE	N-CA-C	-5.23	98.46	109.34
3	O	232	VAL	N-CA-C	5.23	114.28	106.85
4	P	71	ARG	N-CA-C	-5.23	106.85	113.18
12	X	58	ILE	N-CA-C	5.23	120.22	109.34
3	O	155	ILE	CA-CB-CG1	5.23	119.28	110.40
2	B	1085	VAL	N-CA-C	5.22	117.37	108.86
1	M	561	VAL	CA-C-N	5.22	124.98	119.76
1	M	561	VAL	C-N-CA	5.22	124.98	119.76
2	N	1085	VAL	N-CA-C	5.22	117.36	108.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	T	115	VAL	N-CA-C	5.22	115.36	107.80
1	M	1115	THR	CA-C-N	-5.21	113.33	119.84
1	M	1115	THR	C-N-CA	-5.21	113.33	119.84
1	A	1115	THR	CB-CA-C	-5.21	105.75	110.44
2	N	744	HIS	CA-C-N	5.20	125.25	119.32
2	N	744	HIS	C-N-CA	5.20	125.25	119.32
4	P	115	PHE	N-CA-C	5.20	114.90	108.19
1	A	289	ILE	N-CA-C	-5.20	108.06	113.10
1	A	1305	GLU	CA-CB-CG	-5.20	103.70	114.10
2	B	744	HIS	CA-C-N	5.20	125.25	119.32
2	B	744	HIS	C-N-CA	5.20	125.25	119.32
1	M	1305	GLU	CA-CB-CG	-5.20	103.70	114.10
1	M	1078	ALA	N-CA-C	-5.20	107.60	114.04
1	M	835	THR	N-CA-C	-5.19	105.70	111.36
1	M	1266	ILE	N-CA-C	-5.19	106.83	112.80
3	O	6	LYS	N-CA-C	5.18	117.87	109.06
2	N	846	ILE	N-CA-C	-5.18	104.62	111.09
1	A	404	LYS	N-CA-C	5.17	121.37	113.19
1	A	1078	ALA	N-CA-C	-5.17	107.62	114.04
2	B	595	ASP	N-CA-C	-5.17	106.81	113.23
4	D	71	ARG	N-CA-C	-5.17	106.92	113.18
2	N	595	ASP	N-CA-C	-5.17	106.81	113.23
1	M	404	LYS	N-CA-C	5.17	121.35	113.19
1	M	1115	THR	CB-CA-C	-5.17	105.79	110.44
3	C	61	PHE	N-CA-C	-5.17	105.34	111.69
2	B	1017	ILE	CA-C-N	5.16	124.61	119.24
2	B	1017	ILE	C-N-CA	5.16	124.61	119.24
1	M	1288	VAL	N-CA-C	5.16	115.80	108.42
12	L	71	THR	N-CA-C	5.16	118.44	112.97
1	M	696	TYR	N-CA-C	-5.16	105.57	111.14
1	A	561	VAL	CA-C-N	5.16	124.92	119.76
1	A	561	VAL	C-N-CA	5.16	124.92	119.76
2	B	836	GLU	N-CA-C	5.16	118.31	111.30
1	M	1106	ILE	N-CA-C	5.16	115.30	110.30
1	M	1267	GLU	N-CA-C	-5.15	105.11	111.40
1	M	1424	CYS	N-CA-C	-5.15	99.82	110.80
1	A	1315	ASN	N-CA-C	-5.15	100.31	109.06
1	A	1424	CYS	N-CA-C	-5.15	99.83	110.80
2	B	846	ILE	N-CA-C	-5.15	104.66	111.09
3	O	61	PHE	N-CA-C	-5.15	105.36	111.69
2	N	936	ASP	N-CA-C	5.15	118.33	110.20
1	M	353	VAL	N-CA-C	5.14	115.72	108.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	690	GLN	N-CA-C	-5.14	107.08	113.19
1	A	835	THR	N-CA-C	-5.14	105.76	111.36
3	C	6	LYS	N-CA-C	5.13	117.79	109.06
3	C	34	ARG	N-CA-C	5.13	117.61	111.71
1	M	690	GLN	N-CA-C	-5.13	107.08	113.19
2	B	939	THR	N-CA-C	5.13	116.13	109.72
2	N	836	GLU	N-CA-C	5.13	118.28	111.30
1	A	1288	VAL	N-CA-C	5.13	115.75	108.42
2	B	936	ASP	N-CA-C	5.13	118.30	110.20
1	A	1000	PHE	CA-CB-CG	-5.12	108.68	113.80
1	A	696	TYR	N-CA-C	-5.12	105.61	111.14
1	M	1315	ASN	N-CA-C	-5.12	100.35	109.06
4	D	160	ILE	CA-C-N	5.12	126.24	119.84
4	D	160	ILE	C-N-CA	5.12	126.24	119.84
1	M	1135	VAL	CA-CB-CG2	5.12	119.10	110.40
3	O	34	ARG	N-CA-C	5.11	117.59	111.71
1	A	419	HIS	CA-CB-CG	-5.11	108.69	113.80
1	A	1267	GLU	N-CA-C	-5.11	105.17	111.40
1	M	289	ILE	N-CA-C	-5.11	108.14	113.10
4	P	149	GLY	N-CA-C	-5.11	106.05	111.93
1	M	887	ILE	N-CA-C	5.11	119.05	112.67
2	B	1020	ARG	N-CA-C	-5.10	105.90	111.82
7	S	26	LEU	N-CA-C	-5.10	105.41	110.97
1	M	764	ALA	N-CA-C	5.10	116.26	108.30
4	D	49	ILE	N-CA-C	5.10	114.12	106.42
2	N	1020	ARG	N-CA-C	-5.10	105.91	111.82
4	P	160	ILE	CA-C-N	5.09	126.21	119.84
4	P	160	ILE	C-N-CA	5.09	126.21	119.84
4	D	149	GLY	N-CA-C	-5.08	106.09	111.93
2	B	1025	HIS	N-CA-C	-5.08	104.83	111.02
4	D	154	ASP	N-CA-C	-5.07	105.26	111.75
1	M	142	CYS	N-CA-C	5.07	118.96	112.87
12	X	71	THR	N-CA-C	5.07	118.35	112.97
1	A	764	ALA	N-CA-C	5.07	116.21	108.30
1	A	1135	VAL	CA-CB-CG1	5.07	119.02	110.40
2	N	464	LYS	N-CA-C	-5.07	106.30	113.20
1	M	1000	PHE	CA-CB-CG	-5.07	108.73	113.80
9	U	63	GLY	N-CA-C	-5.06	106.99	115.80
10	V	9	SER	N-CA-C	5.06	119.66	111.37
1	A	917	ALA	N-CA-C	5.05	116.79	111.28
2	N	1025	HIS	N-CA-C	-5.05	104.86	111.02
1	M	172	GLN	CA-C-N	5.05	125.03	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	172	GLN	C-N-CA	5.05	125.03	120.03
1	M	1041	ARG	N-CA-C	-5.05	105.86	111.36
2	B	544	SER	N-CA-CB	-5.05	102.66	109.98
2	B	464	LYS	N-CA-C	-5.04	106.34	113.20
9	I	63	GLY	N-CA-C	-5.04	107.02	115.80
2	B	417	LEU	N-CA-C	-5.04	105.50	111.69
1	M	917	ALA	N-CA-C	5.04	116.77	111.28
2	N	544	SER	N-CA-CB	-5.04	102.68	109.98
1	M	419	HIS	CA-CB-CG	-5.03	108.77	113.80
2	N	891	GLU	N-CA-C	5.03	118.19	111.75
1	M	834	GLU	N-CA-C	-5.03	105.89	112.23
7	G	106	LEU	N-CA-C	5.03	117.50	109.81
2	B	633	VAL	N-CA-C	5.02	116.12	111.45
2	N	568	THR	CA-CB-OG1	-5.02	102.06	109.60
2	N	417	LEU	N-CA-C	-5.02	105.51	111.69
6	R	93	ILE	N-CA-C	-5.02	105.43	110.30
1	A	48	PRO	N-CA-C	-5.02	102.13	112.47
5	Q	127	SER	N-CA-CB	-5.02	102.85	109.78
2	B	891	GLU	N-CA-C	5.02	118.17	111.75
1	M	48	PRO	N-CA-C	-5.02	102.13	112.47
1	A	810	THR	N-CA-C	-5.01	103.37	110.29
2	B	568	THR	CA-CB-OG1	-5.01	102.08	109.60
5	E	127	SER	N-CA-CB	-5.01	102.86	109.78
7	S	106	LEU	N-CA-C	5.01	117.48	109.81
4	P	154	ASP	N-CA-C	-5.01	105.34	111.75
2	N	633	VAL	N-CA-C	5.00	116.10	111.45

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	10247	0	9733	1333	2
1	M	10262	0	9743	1417	1
2	B	8182	0	7871	1061	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	N	8190	0	7882	1194	0
3	C	1863	0	1645	206	6
3	O	1863	0	1645	198	5
4	D	1105	0	964	109	5
4	P	1099	0	958	127	3
5	E	1638	0	1551	168	0
5	Q	1638	0	1551	169	0
6	F	637	0	620	101	0
6	R	637	0	620	96	0
7	G	1187	0	1092	238	5
7	S	1187	0	1092	159	13
8	H	953	0	851	121	4
8	T	953	0	851	128	2
9	I	847	0	756	85	0
9	U	847	0	756	91	7
10	J	487	0	492	120	0
10	V	487	0	492	119	0
11	K	826	0	723	94	5
11	W	826	0	723	95	6
12	L	319	0	287	34	8
12	X	319	0	287	31	6
13	A	2	0	0	0	0
13	B	1	0	0	0	0
13	C	1	0	0	0	0
13	I	2	0	0	0	0
13	J	1	0	0	0	0
13	L	1	0	0	0	0
13	M	2	0	0	0	0
13	N	1	0	0	1	0
13	O	1	0	0	0	0
13	U	2	0	0	0	0
13	V	1	0	0	0	0
13	X	1	0	0	0	0
All	All	56615	0	53185	6665	39

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 61.

All (6665) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1397:THR:HG21	1:M:1401:MET:SD	1.33	1.67
2:N:51:TRP:CB	2:N:51:TRP:CG	1.81	1.64
1:M:521:VAL:CG2	1:M:521:VAL:CB	1.76	1.62
2:B:51:TRP:CG	2:B:51:TRP:CB	1.81	1.60
1:M:239:VAL:CG1	1:M:239:VAL:CB	1.80	1.60
1:A:239:VAL:CB	1:A:239:VAL:CG2	1.79	1.60
8:H:36:ILE:CG1	8:H:36:ILE:CB	1.81	1.59
7:S:94:VAL:CB	7:S:94:VAL:CG2	1.78	1.59
1:A:521:VAL:CG1	1:A:521:VAL:CB	1.76	1.58
2:B:556:MET:CE	2:B:573:ILE:HG21	1.33	1.58
1:A:1021:GLN:CG	1:A:1021:GLN:CB	1.79	1.58
1:M:345:ARG:HA	2:N:1129:ARG:CA	1.32	1.57
8:T:36:ILE:CB	8:T:36:ILE:CG1	1.81	1.57
5:E:123:ILE:CG1	5:E:124:PRO:HD3	1.30	1.55
1:M:1021:GLN:CB	1:M:1021:GLN:CG	1.79	1.54
7:G:94:VAL:CG1	7:G:94:VAL:CB	1.78	1.54
2:N:556:MET:CE	2:N:573:ILE:CG2	1.83	1.54
2:B:556:MET:CE	2:B:573:ILE:CG2	1.83	1.53
5:Q:123:ILE:CG1	5:Q:124:PRO:HD3	1.32	1.53
1:M:320:GLY:CA	2:N:464:LYS:HA	1.35	1.53
2:N:1221:SER:HB3	4:P:12:ARG:CB	1.42	1.50
2:N:556:MET:CE	2:N:573:ILE:HG21	1.33	1.50
1:M:346:VAL:HG11	2:N:1130:PHE:CB	1.38	1.50
1:M:911:PRO:HA	1:M:917:ALA:CB	1.44	1.48
1:M:345:ARG:CA	2:N:1129:ARG:HA	1.44	1.47
1:M:346:VAL:CG1	2:N:1130:PHE:HB2	1.40	1.46
1:A:799:GLY:HA2	1:A:816:PHE:CD1	1.51	1.45
1:A:911:PRO:HA	1:A:917:ALA:CB	1.44	1.45
1:M:346:VAL:CG1	2:N:1130:PHE:CB	1.92	1.45
1:A:1447:MET:CB	7:G:59:GLY:O	1.65	1.43
1:A:911:PRO:CB	1:A:917:ALA:HB3	1.49	1.43
1:M:911:PRO:CB	1:M:917:ALA:HB3	1.49	1.40
11:W:43:ALA:HB1	11:W:61:TYR:CD1	1.56	1.40
11:K:43:ALA:HB1	11:K:61:TYR:CD1	1.56	1.39
1:A:1448:ILE:HG21	7:G:18:PHE:CE2	1.58	1.39
1:M:911:PRO:CA	1:M:917:ALA:CB	2.02	1.36
1:M:1397:THR:CG2	1:M:1401:MET:SD	2.11	1.36
1:A:911:PRO:CA	1:A:917:ALA:CB	2.03	1.36
7:S:89:ALA:HB1	7:S:102:ASP:O	1.26	1.35
2:N:1217:TYR:CE2	4:P:14:ARG:HA	1.61	1.35
2:N:1149:GLU:O	2:N:1153:GLU:HB2	1.22	1.35
5:E:123:ILE:CG1	5:E:124:PRO:CD	2.02	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1221:SER:CB	4:P:12:ARG:CB	2.05	1.33
5:Q:123:ILE:CG1	5:Q:124:PRO:CD	2.04	1.33
7:G:89:ALA:HB1	7:G:102:ASP:O	1.26	1.33
1:M:342:MET:HE2	1:M:844:LYS:NZ	1.45	1.31
1:M:342:MET:CE	1:M:844:LYS:NZ	1.93	1.31
7:S:47:THR:OG1	7:S:47:THR:CB	1.77	1.31
1:A:1447:MET:CG	7:G:60:ARG:CA	2.09	1.31
3:C:47:LEU:HB3	3:C:158:ILE:CG2	1.59	1.31
1:A:345:ARG:CA	2:B:1129:ARG:HA	1.60	1.30
3:O:47:LEU:HB3	3:O:158:ILE:CG2	1.59	1.30
7:G:47:THR:OG1	7:G:47:THR:CB	1.78	1.29
1:A:1453:LEU:HD11	7:G:18:PHE:O	1.12	1.28
8:H:24:SER:OG	8:H:24:SER:CB	1.82	1.28
11:K:43:ALA:HB1	11:K:61:TYR:CE1	1.68	1.28
8:T:24:SER:OG	8:T:24:SER:CB	1.82	1.28
11:K:43:ALA:CB	11:K:61:TYR:CE1	2.16	1.27
2:N:556:MET:HE1	2:N:573:ILE:CG2	1.54	1.27
11:W:43:ALA:CB	11:W:61:TYR:CE1	2.16	1.27
5:E:89:ILE:HG23	5:E:119:ALA:N	1.47	1.27
1:A:345:ARG:HA	2:B:1129:ARG:CA	1.64	1.26
5:E:80:GLU:O	5:E:110:ILE:HG22	1.35	1.26
5:E:89:ILE:CG2	5:E:119:ALA:N	1.99	1.26
2:B:1221:SER:HB2	4:D:12:ARG:CB	1.64	1.26
1:M:345:ARG:HA	2:N:1129:ARG:CB	1.64	1.26
5:Q:89:ILE:HG23	5:Q:119:ALA:N	1.48	1.26
11:W:43:ALA:HB1	11:W:61:TYR:CE1	1.68	1.26
1:M:1448:ILE:CG2	7:S:61:ILE:HD11	1.63	1.26
1:A:1450:GLU:OE2	7:G:23:ASN:HB2	1.37	1.25
5:Q:89:ILE:CG2	5:Q:119:ALA:N	1.98	1.25
2:N:1149:GLU:HA	2:N:1153:GLU:OE1	1.30	1.24
1:M:319:SER:O	2:N:463:LYS:O	1.56	1.23
2:N:1217:TYR:CZ	4:P:14:ARG:HA	1.61	1.23
1:A:1447:MET:HG3	7:G:60:ARG:CA	1.67	1.21
2:N:387:ASP:OD2	9:U:91:ARG:NE	1.73	1.21
1:A:1447:MET:CG	7:G:60:ARG:HA	1.64	1.21
1:A:1447:MET:HG3	7:G:60:ARG:CB	1.71	1.20
2:B:556:MET:CE	2:B:573:ILE:HG23	1.69	1.19
1:A:1446:VAL:O	7:G:61:ILE:N	1.74	1.19
6:F:132:LEU:CD2	7:G:61:ILE:HD11	1.73	1.18
6:F:132:LEU:HD21	7:G:61:ILE:CD1	1.72	1.18
1:M:1447:MET:HE1	6:R:135:ARG:CB	1.74	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:889:THR:O	2:B:910:ILE:HG22	1.44	1.17
1:M:343:GLY:O	2:N:1129:ARG:NH2	1.77	1.17
5:Q:80:GLU:O	5:Q:110:ILE:HG22	1.41	1.16
1:M:320:GLY:CA	2:N:464:LYS:CA	2.22	1.16
1:M:578:LEU:O	1:M:581:ILE:HG22	1.43	1.16
1:A:578:LEU:O	1:A:581:ILE:HG22	1.41	1.16
1:M:318:LYS:HA	2:N:464:LYS:CE	1.76	1.16
3:O:99:GLU:HB2	3:O:119:ILE:HG23	1.24	1.15
1:A:1447:MET:HG3	7:G:60:ARG:HA	1.22	1.15
6:F:132:LEU:CD2	7:G:61:ILE:CD1	2.24	1.15
2:B:556:MET:HE1	2:B:573:ILE:CG2	1.55	1.15
2:N:889:THR:O	2:N:910:ILE:HG22	1.45	1.15
2:N:556:MET:CE	2:N:573:ILE:HG23	1.69	1.15
5:E:89:ILE:CG2	5:E:118:SER:C	2.21	1.14
5:Q:89:ILE:HG22	5:Q:119:ALA:HA	1.28	1.14
1:A:911:PRO:CB	1:A:917:ALA:CB	2.22	1.14
1:A:1447:MET:HB3	7:G:59:GLY:C	1.71	1.14
2:N:1117:GLN:NE2	2:N:1156:ASP:OD2	1.80	1.14
5:Q:89:ILE:CG2	5:Q:118:SER:C	2.20	1.13
5:E:89:ILE:HG22	5:E:119:ALA:HA	1.28	1.13
3:O:99:GLU:HB2	3:O:119:ILE:CG2	1.79	1.13
1:M:320:GLY:N	2:N:464:LYS:HA	1.62	1.13
3:C:99:GLU:HB2	3:C:119:ILE:HG23	1.25	1.12
3:O:42:THR:HG22	3:O:43:LEU:H	1.08	1.12
1:A:911:PRO:HB3	1:A:917:ALA:CB	1.77	1.11
1:M:911:PRO:HA	1:M:917:ALA:HB2	1.16	1.11
1:M:53:LEU:HD23	1:M:54:ASN:H	1.15	1.11
1:A:1447:MET:HG2	7:G:60:ARG:N	1.65	1.11
1:A:766:VAL:HG21	1:A:809:LEU:HD11	1.22	1.11
3:C:99:GLU:HB2	3:C:119:ILE:CG2	1.79	1.11
2:N:540:ILE:CG1	2:N:605:GLU:OE2	1.99	1.11
3:O:47:LEU:HB3	3:O:158:ILE:HG21	1.30	1.11
2:B:540:ILE:CG1	2:B:605:GLU:OE2	1.98	1.10
1:M:246:GLN:O	2:N:1114:LEU:CD1	1.97	1.10
1:M:911:PRO:HB3	1:M:917:ALA:CB	1.77	1.10
6:R:109:VAL:HG12	6:R:110:ASP:H	1.15	1.10
1:A:53:LEU:HD23	1:A:54:ASN:H	1.15	1.10
1:A:769:GLN:OE1	1:A:817:HIS:HA	1.51	1.10
1:A:1029:ALA:O	1:A:1033:ILE:HG23	1.52	1.10
1:A:911:PRO:HB3	1:A:917:ALA:HB3	1.15	1.09
1:M:40:ILE:HB	1:M:41:MET:HE2	1.13	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:346:VAL:O	2:N:1128:LEU:O	1.68	1.09
1:A:911:PRO:HA	1:A:917:ALA:HB2	1.16	1.09
1:A:1197:LEU:HD11	1:A:1270:MET:HE1	1.34	1.09
2:N:582:ILE:CG1	2:N:583:HIS:H	1.64	1.09
2:N:1215:ARG:HD2	4:P:15:ALA:HB2	1.32	1.09
2:B:582:ILE:CG1	2:B:583:HIS:H	1.64	1.09
3:C:42:THR:HG22	3:C:43:LEU:H	1.08	1.08
2:N:1117:GLN:HE21	2:N:1156:ASP:CG	1.59	1.08
7:S:88:ASP:HB3	7:S:144:ARG:HA	1.35	1.08
1:A:53:LEU:HD23	1:A:54:ASN:N	1.68	1.08
1:M:1441:THR:CG2	2:N:1144:ALA:HB3	1.83	1.08
1:M:988:ILE:HD13	1:M:1033:ILE:CG1	1.83	1.08
1:M:1197:LEU:HD11	1:M:1270:MET:HE1	1.34	1.08
1:A:40:ILE:HB	1:A:41:MET:HE2	1.13	1.08
1:A:988:ILE:HD13	1:A:1033:ILE:CG1	1.83	1.08
1:A:1448:ILE:HD11	7:G:68:ALA:HB1	1.32	1.08
2:B:1159:ARG:HB3	2:B:1159:ARG:HH11	1.14	1.08
2:B:1221:SER:CB	4:D:12:ARG:CB	2.31	1.08
1:M:320:GLY:HA2	2:N:464:LYS:HA	1.35	1.08
6:F:109:VAL:HG12	6:F:110:ASP:H	1.15	1.07
1:M:1029:ALA:O	1:M:1033:ILE:HG23	1.54	1.07
9:U:34:TYR:HD2	9:U:35:THR:N	1.52	1.07
1:M:346:VAL:HG13	2:N:1130:PHE:CB	1.78	1.07
3:C:47:LEU:HB3	3:C:158:ILE:HG21	1.29	1.07
1:M:911:PRO:HB3	1:M:917:ALA:HB3	1.15	1.07
1:A:591:ARG:NH2	1:A:621:LYS:HB3	1.70	1.07
1:M:318:LYS:CA	2:N:464:LYS:HE2	1.84	1.07
2:N:1159:ARG:HH11	2:N:1159:ARG:HB3	1.14	1.07
1:M:53:LEU:HD23	1:M:54:ASN:N	1.68	1.06
2:N:1072:MET:HE3	2:N:1085:VAL:HB	1.36	1.06
1:A:41:MET:HB3	1:A:49:ARG:HA	1.35	1.06
1:A:1453:LEU:CD1	7:G:18:PHE:O	2.04	1.06
1:A:1447:MET:CG	7:G:60:ARG:CB	2.32	1.06
3:C:141:GLY:O	3:C:142:ILE:CG1	2.03	1.06
1:M:911:PRO:CB	1:M:917:ALA:CB	2.21	1.06
7:G:88:ASP:HB3	7:G:144:ARG:HA	1.35	1.05
9:I:34:TYR:HD2	9:I:35:THR:N	1.52	1.05
1:M:591:ARG:NH2	1:M:621:LYS:HB3	1.70	1.05
1:M:1448:ILE:HG23	7:S:61:ILE:HD11	1.34	1.05
1:A:1447:MET:HB3	7:G:59:GLY:O	0.87	1.04
1:A:739:LYS:HB2	1:A:741:LEU:HD23	1.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1007:VAL:HG22	2:B:1008:PRO:HD2	1.40	1.04
1:M:346:VAL:HG11	2:N:1130:PHE:HB3	1.24	1.04
6:R:100:GLN:NE2	7:S:61:ILE:HG21	1.71	1.04
1:M:320:GLY:HA3	2:N:464:LYS:HA	1.38	1.03
1:M:739:LYS:HB2	1:M:741:LEU:HD23	1.40	1.03
3:O:4:GLU:CB	3:O:5:PRO:HD2	1.88	1.03
1:A:1448:ILE:CG2	7:G:18:PHE:HE2	1.70	1.03
6:F:103:MET:CE	7:G:65:SER:HB2	1.87	1.03
1:M:333:LYS:H	1:M:338:ARG:HB3	1.23	1.03
1:M:911:PRO:CA	1:M:917:ALA:HB3	1.79	1.03
1:M:41:MET:HB3	1:M:49:ARG:HA	1.36	1.03
3:O:141:GLY:O	3:O:142:ILE:CG1	2.05	1.03
1:A:553:TRP:HE1	11:K:62:LYS:HB2	1.24	1.03
1:A:1397:THR:HG21	1:A:1401:MET:SD	1.99	1.03
3:C:4:GLU:CB	3:C:5:PRO:HD2	1.88	1.03
1:M:346:VAL:CG1	2:N:1130:PHE:HB3	1.74	1.03
1:M:1389:ARG:HB2	1:M:1406:GLU:OE1	1.59	1.02
2:B:1072:MET:HE3	2:B:1085:VAL:HB	1.36	1.02
6:F:103:MET:HE1	7:G:65:SER:HB2	1.40	1.02
5:Q:120:ASN:O	5:Q:123:ILE:HG23	1.57	1.02
1:A:780:PHE:HE1	1:A:786:PRO:HD3	1.25	1.02
1:M:320:GLY:HA2	2:N:464:LYS:CA	1.85	1.02
3:O:4:GLU:CB	3:O:5:PRO:CD	2.38	1.02
7:G:89:ALA:HB1	7:G:102:ASP:C	1.83	1.02
1:M:255:GLU:HB2	2:N:935:ARG:NH1	1.73	1.02
6:R:100:GLN:HE22	7:S:61:ILE:HG21	1.23	1.02
2:N:999:MET:HG3	2:N:1000:PRO:HD2	1.40	1.02
11:K:43:ALA:HB3	11:K:61:TYR:CE1	1.92	1.01
1:M:553:TRP:HE1	11:W:62:LYS:HB2	1.24	1.01
1:M:799:GLY:HA2	1:M:816:PHE:CD1	1.95	1.01
1:M:1448:ILE:HG21	7:S:61:ILE:HD11	1.35	1.01
11:W:43:ALA:HB3	11:W:61:TYR:CE1	1.92	1.01
3:O:47:LEU:HB3	3:O:158:ILE:HG23	1.41	1.01
7:S:89:ALA:HB1	7:S:102:ASP:C	1.83	1.01
3:C:47:LEU:HB3	3:C:158:ILE:HG23	1.41	1.01
1:M:342:MET:HE3	1:M:844:LYS:NZ	1.74	1.01
1:M:1448:ILE:HG23	7:S:61:ILE:CD1	1.90	1.01
3:C:4:GLU:CB	3:C:5:PRO:CD	2.37	1.00
1:M:75:ALA:HA	2:N:1116:ARG:NH2	1.76	1.00
1:M:318:LYS:HA	2:N:464:LYS:HE2	1.02	1.00
1:M:1013:GLN:O	1:M:1017:THR:HG23	1.62	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1450:GLU:OE2	7:G:23:ASN:CB	2.08	1.00
1:A:444:LEU:HD11	1:A:456:MET:HB3	1.44	1.00
2:B:999:MET:HG3	2:B:1000:PRO:HD2	1.41	1.00
1:M:444:LEU:HD11	1:M:456:MET:HB3	1.44	0.99
1:A:799:GLY:CA	1:A:816:PHE:CD1	2.44	0.99
6:F:82:THR:HG22	6:F:84:TYR:H	1.27	0.99
1:A:333:LYS:H	1:A:338:ARG:HB3	1.22	0.99
10:J:43:TYR:HA	10:J:46:ARG:HB2	1.45	0.99
7:G:138:THR:HG22	7:G:139:LYS:H	1.28	0.99
1:M:55:ASP:C	1:M:57:LYS:H	1.68	0.99
1:M:344:LYS:C	2:N:1129:ARG:HG3	1.88	0.99
2:N:1159:ARG:HB3	2:N:1159:ARG:NH1	1.78	0.99
10:V:43:TYR:HA	10:V:46:ARG:HB2	1.45	0.98
1:M:769:GLN:HB3	1:M:820:ALA:HB2	1.41	0.98
1:A:911:PRO:CA	1:A:917:ALA:HB1	1.93	0.98
2:N:1217:TYR:CE2	4:P:14:ARG:CA	2.46	0.98
5:E:89:ILE:CG2	5:E:119:ALA:CA	2.42	0.98
1:M:780:PHE:HE1	1:M:786:PRO:HD3	1.25	0.98
1:A:769:GLN:HG3	1:A:817:HIS:N	1.78	0.98
1:M:255:GLU:HB2	2:N:935:ARG:HH12	1.28	0.98
2:N:1007:VAL:HG22	2:N:1008:PRO:HD2	1.40	0.98
1:A:769:GLN:CD	1:A:817:HIS:HA	1.88	0.98
1:M:505:LEU:HD11	6:R:91:ALA:CB	1.93	0.98
1:A:1118:LEU:N	1:A:1311:THR:HG22	1.79	0.98
1:A:1448:ILE:CG1	7:G:68:ALA:CB	2.42	0.98
2:N:556:MET:HE1	2:N:573:ILE:HG23	1.32	0.98
6:R:82:THR:HG22	6:R:84:TYR:H	1.27	0.98
2:B:882:THR:HG1	2:B:934:LYS:N	1.60	0.97
6:F:132:LEU:HD21	7:G:61:ILE:HD11	1.29	0.97
5:Q:89:ILE:HG22	5:Q:119:ALA:CA	1.93	0.97
5:Q:89:ILE:HG21	5:Q:118:SER:C	1.89	0.97
2:B:582:ILE:CG1	2:B:583:HIS:N	2.22	0.97
1:M:342:MET:HE2	1:M:844:LYS:HZ2	1.28	0.97
11:W:43:ALA:HB3	11:W:61:TYR:HE1	1.26	0.97
1:A:911:PRO:CA	1:A:917:ALA:HB3	1.79	0.97
1:A:1013:GLN:O	1:A:1017:THR:HG23	1.62	0.97
5:Q:89:ILE:CG2	5:Q:119:ALA:CA	2.42	0.97
1:A:1448:ILE:HD13	7:G:70:PHE:CZ	1.98	0.97
2:B:766:ARG:HH22	2:B:1020:ARG:HH11	0.98	0.97
1:M:864:ILE:HG23	5:Q:175:PRO:HD3	1.46	0.97
5:E:89:ILE:HG21	5:E:118:SER:C	1.89	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:345:ARG:N	2:N:1129:ARG:HG3	1.79	0.97
1:A:776:ILE:HG23	1:A:819:MET:HE1	1.45	0.97
2:N:882:THR:HG1	2:N:934:LYS:N	1.61	0.97
7:S:138:THR:HG22	7:S:139:LYS:N	1.78	0.97
3:C:31:SER:O	3:C:35:THR:HG23	1.65	0.96
5:E:89:ILE:HG22	5:E:119:ALA:CA	1.94	0.96
2:B:999:MET:HE2	2:B:1011:ILE:HD11	1.46	0.96
11:K:43:ALA:CB	11:K:61:TYR:HE1	1.67	0.96
1:M:1447:MET:CE	6:R:135:ARG:HB2	1.93	0.96
1:M:848:ASP:HB3	1:M:1427:VAL:HG23	1.48	0.96
7:G:89:ALA:CB	7:G:102:ASP:C	2.38	0.96
7:S:89:ALA:CB	7:S:102:ASP:C	2.38	0.96
1:A:55:ASP:C	1:A:57:LYS:H	1.68	0.96
2:B:1159:ARG:HB3	2:B:1159:ARG:NH1	1.78	0.96
7:G:138:THR:HG22	7:G:139:LYS:N	1.78	0.96
2:B:556:MET:HE1	2:B:573:ILE:HG23	1.32	0.96
1:A:1447:MET:CA	7:G:60:ARG:HA	1.95	0.96
4:D:82:GLY:HA2	4:D:85:ASP:CG	1.91	0.96
1:M:1447:MET:HE1	6:R:135:ARG:HB2	0.97	0.96
6:R:86:THR:OG1	6:R:89:GLU:HG3	1.66	0.96
7:G:89:ALA:CB	7:G:102:ASP:O	2.14	0.95
1:M:911:PRO:CA	1:M:917:ALA:HB1	1.93	0.95
1:M:1063:GLY:HA2	1:M:1440:GLY:HA2	1.46	0.95
11:W:43:ALA:CB	11:W:61:TYR:HE1	1.67	0.95
1:A:1107:LEU:HD22	1:A:1387:ILE:HG21	1.48	0.95
6:F:86:THR:OG1	6:F:89:GLU:HG3	1.66	0.95
1:M:1118:LEU:N	1:M:1311:THR:HG22	1.79	0.95
7:S:34:VAL:HG12	7:S:45:ILE:HG21	1.48	0.95
7:S:89:ALA:CB	7:S:102:ASP:O	2.14	0.95
1:A:1118:LEU:H	1:A:1311:THR:HG22	1.31	0.95
3:C:56:VAL:HG11	10:J:59:PHE:HB3	1.49	0.95
2:B:1114:LEU:HD11	2:B:1202:LEU:HD11	1.48	0.95
1:A:1447:MET:HG2	7:G:60:ARG:CA	1.86	0.95
1:M:346:VAL:HG13	2:N:1130:PHE:N	1.81	0.95
2:N:999:MET:HE2	2:N:1011:ILE:HD11	1.46	0.95
2:N:889:THR:O	2:N:910:ILE:CG2	2.15	0.95
3:O:65:ARG:NH2	10:V:5:VAL:HG23	1.82	0.95
3:C:65:ARG:NH2	10:J:5:VAL:HG23	1.81	0.94
1:M:1118:LEU:H	1:M:1311:THR:HG22	1.31	0.94
2:N:466:MET:HE3	2:N:467:SER:HA	1.49	0.94
4:P:82:GLY:HA2	4:P:85:ASP:CG	1.91	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:889:THR:O	2:B:910:ILE:CG2	2.14	0.94
1:A:1447:MET:CB	7:G:60:ARG:HA	1.98	0.94
1:M:1116:PRO:HB2	1:M:1314:ILE:HG23	1.49	0.94
2:B:755:ILE:HG22	2:B:809:MET:HE2	1.50	0.94
1:M:342:MET:CE	1:M:844:LYS:HZ1	1.66	0.94
2:N:766:ARG:HH22	2:N:1020:ARG:HH11	0.98	0.94
2:N:1163:CYS:HG	13:N:1301:ZN:ZN	0.61	0.94
1:A:320:GLY:HA2	2:B:464:LYS:HA	1.47	0.94
6:F:103:MET:HE1	7:G:65:SER:CB	1.97	0.94
11:K:43:ALA:HB3	11:K:61:TYR:HE1	1.26	0.94
1:A:344:LYS:O	2:B:1130:PHE:N	2.00	0.93
1:A:1448:ILE:CD1	7:G:68:ALA:HB1	1.98	0.93
8:T:134:LEU:HD13	8:T:136:GLN:NE2	1.83	0.93
1:M:825:LEU:HD21	2:N:765:PRO:HB3	1.50	0.93
3:O:31:SER:O	3:O:35:THR:HG23	1.68	0.93
1:A:266:LYS:H	1:A:266:LYS:HD2	1.34	0.93
1:A:346:VAL:HG13	2:B:1130:PHE:HB2	1.49	0.93
2:B:890:TYR:HA	2:B:910:ILE:CG2	1.98	0.93
7:G:34:VAL:HG12	7:G:45:ILE:HG21	1.48	0.93
2:N:1149:GLU:O	2:N:1153:GLU:CB	2.14	0.93
7:S:138:THR:HG22	7:S:139:LYS:H	1.28	0.93
2:B:503:LYS:HG2	2:B:504:PRO:HD3	1.50	0.93
1:M:345:ARG:C	2:N:1129:ARG:HA	1.93	0.93
2:B:466:MET:HE3	2:B:467:SER:HA	1.49	0.93
1:A:568:LYS:HD2	1:A:569:PRO:HD2	1.51	0.93
1:A:1116:PRO:HB2	1:A:1314:ILE:HG23	1.51	0.93
8:H:134:LEU:HD13	8:H:136:GLN:NE2	1.83	0.93
10:V:63:ASN:HB3	10:V:64:PRO:CD	1.98	0.93
5:E:174:LEU:HD23	5:E:175:PRO:HD2	1.48	0.93
1:M:638:LYS:CB	1:M:642:ILE:CG1	2.47	0.93
1:A:864:ILE:HG23	5:E:175:PRO:HD3	1.50	0.93
2:B:556:MET:HE3	2:B:573:ILE:HG21	0.95	0.93
2:N:890:TYR:HA	2:N:910:ILE:CG2	1.99	0.93
1:A:93:ILE:HG22	1:A:305:MET:HE3	1.51	0.93
1:A:542:ILE:HD13	1:A:550:MET:HE1	1.52	0.92
1:M:343:GLY:C	2:N:1129:ARG:NH2	2.27	0.92
2:N:556:MET:HE3	2:N:573:ILE:HG21	0.95	0.92
2:N:755:ILE:HG22	2:N:809:MET:HE2	1.50	0.92
3:O:56:VAL:HG11	10:V:59:PHE:HB3	1.49	0.92
1:A:336:ARG:HA	1:A:340:ASN:HD22	1.34	0.92
2:N:582:ILE:CG1	2:N:583:HIS:N	2.22	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:174:LEU:HD23	5:Q:175:PRO:HD2	1.48	0.92
2:B:1065:GLN:HG3	2:B:1067:ARG:H	1.33	0.92
2:B:1116:ARG:HG3	2:B:1198:TYR:CE1	2.04	0.92
1:M:1449:ASP:HB2	6:R:133:VAL:CG2	1.99	0.92
2:N:352:GLU:O	2:N:355:PRO:HD3	1.69	0.92
2:N:1065:GLN:HG3	2:N:1067:ARG:H	1.33	0.92
1:M:266:LYS:H	1:M:266:LYS:HD2	1.34	0.92
1:M:542:ILE:HD13	1:M:550:MET:HE1	1.51	0.92
3:O:164:ALA:HB2	3:O:171:SER:CB	2.00	0.92
1:A:710:THR:HB	1:A:713:GLU:HG3	1.52	0.92
1:M:1107:LEU:HD22	1:M:1387:ILE:HG21	1.49	0.92
2:N:1217:TYR:CZ	4:P:14:ARG:CA	2.52	0.92
1:M:505:LEU:HD11	6:R:91:ALA:HB1	1.50	0.92
1:A:1447:MET:HE1	6:F:135:ARG:HB2	1.49	0.92
10:J:63:ASN:HB3	10:J:64:PRO:CD	1.98	0.92
1:M:93:ILE:HG22	1:M:305:MET:HE3	1.51	0.91
1:M:345:ARG:CA	2:N:1129:ARG:CB	2.48	0.91
2:B:556:MET:HE3	2:B:573:ILE:CG2	1.72	0.91
2:N:503:LYS:HG2	2:N:504:PRO:HD3	1.50	0.91
5:Q:89:ILE:HG21	5:Q:118:SER:CB	2.00	0.91
10:V:1:MET:HB2	10:V:55:LEU:HD12	1.50	0.91
2:B:1114:LEU:CD1	2:B:1202:LEU:HD11	2.01	0.91
1:A:988:ILE:CD1	1:A:1033:ILE:CG1	2.47	0.91
1:A:638:LYS:CB	1:A:642:ILE:CG1	2.48	0.91
2:B:352:GLU:O	2:B:355:PRO:HD3	1.69	0.91
7:G:1:MET:HE2	7:G:3:PHE:HE1	1.35	0.91
1:M:568:LYS:HD2	1:M:569:PRO:HD2	1.50	0.91
1:M:1441:THR:OG1	2:N:1142:GLY:O	1.87	0.91
3:C:164:ALA:HB2	3:C:171:SER:CB	2.00	0.91
5:E:83:ASP:O	5:E:85:PRO:HD3	1.68	0.91
11:K:49:GLU:HG3	11:K:94:ILE:HG12	1.53	0.91
2:N:810:GLU:HA	2:N:815:ARG:HH12	1.34	0.91
5:Q:83:ASP:O	5:Q:85:PRO:HD3	1.68	0.91
2:B:810:GLU:HA	2:B:815:ARG:HH12	1.34	0.90
5:E:146:HIS:HB3	5:E:149:VAL:HG23	1.53	0.90
1:M:336:ARG:HA	1:M:340:ASN:HD22	1.34	0.90
1:M:988:ILE:CD1	1:M:1033:ILE:CG1	2.47	0.90
2:N:941:LEU:HD21	2:N:946:ASN:HA	1.53	0.90
1:M:1441:THR:HG22	2:N:1144:ALA:HB3	1.51	0.90
2:N:270:GLN:HG2	2:N:271:ASP:H	1.37	0.90
2:N:865:ARG:CG	2:N:871:VAL:HG22	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:342:MET:HE2	1:A:844:LYS:NZ	1.87	0.90
7:S:1:MET:HE2	7:S:3:PHE:HE1	1.35	0.90
1:A:69:THR:C	1:A:71:GLY:H	1.78	0.89
5:E:120:ASN:O	5:E:123:ILE:HG23	1.70	0.89
2:B:12:ILE:CD1	2:B:647:ILE:CG1	2.50	0.89
10:J:1:MET:HB2	10:J:55:LEU:HD12	1.50	0.89
1:M:1441:THR:HG21	2:N:1144:ALA:HB3	1.51	0.89
5:Q:81:PHE:HA	5:Q:110:ILE:CG2	2.02	0.89
2:B:865:ARG:CG	2:B:871:VAL:HG22	2.02	0.89
5:E:81:PHE:HA	5:E:110:ILE:CG2	2.03	0.89
1:A:1006:ASN:ND2	5:E:166:ARG:HD2	1.87	0.89
2:B:514:LEU:HD22	2:B:626:VAL:HG12	1.55	0.89
2:N:509:ASN:HD22	2:N:509:ASN:N	1.70	0.89
1:A:266:LYS:HD2	1:A:266:LYS:N	1.88	0.89
1:M:1063:GLY:CA	1:M:1440:GLY:HA2	2.01	0.89
2:N:12:ILE:CD1	2:N:647:ILE:CG1	2.50	0.89
1:A:346:VAL:CG1	2:B:1130:PHE:HB2	2.03	0.89
10:J:63:ASN:HB3	10:J:64:PRO:HD3	1.54	0.89
2:N:307:LYS:O	2:N:310:ILE:HG23	1.73	0.89
3:C:74:GLU:HB3	3:C:128:ASN:HB3	1.55	0.88
1:M:69:THR:C	1:M:71:GLY:H	1.78	0.88
1:M:266:LYS:HD2	1:M:266:LYS:N	1.88	0.88
1:A:739:LYS:H	1:A:739:LYS:HD2	1.39	0.88
1:A:902:LEU:H	1:A:927:GLN:HE21	1.22	0.88
5:E:89:ILE:HG21	5:E:118:SER:CB	2.01	0.88
1:M:986:PRO:O	1:M:990:HIS:HB2	1.74	0.88
2:N:190:MET:HE2	2:N:485:LEU:HD23	1.55	0.88
1:A:1447:MET:CA	7:G:59:GLY:O	2.21	0.88
2:B:190:MET:HE2	2:B:485:LEU:HD23	1.55	0.88
2:B:941:LEU:HD21	2:B:946:ASN:HA	1.53	0.88
2:B:270:GLN:HG2	2:B:271:ASP:H	1.37	0.88
1:M:638:LYS:HB3	1:M:642:ILE:CG1	2.03	0.88
1:A:1448:ILE:HG21	7:G:18:PHE:HE2	0.78	0.88
6:F:132:LEU:CD2	7:G:61:ILE:HD12	2.03	0.88
2:N:957:ASN:HD22	2:N:961:LEU:HD12	1.39	0.88
1:A:504:GLN:NE2	6:F:90:ARG:HH21	1.71	0.88
1:A:1448:ILE:CG1	7:G:68:ALA:HB2	2.03	0.88
10:J:1:MET:N	10:J:55:LEU:H	1.72	0.88
1:M:710:THR:HB	1:M:713:GLU:HG3	1.52	0.88
1:M:739:LYS:HD2	1:M:739:LYS:H	1.38	0.88
1:M:769:GLN:HG3	1:M:817:HIS:HA	1.52	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:146:HIS:HB3	5:Q:149:VAL:HG23	1.54	0.88
7:S:138:THR:CG2	7:S:139:LYS:H	1.87	0.88
1:M:1006:ASN:ND2	5:Q:166:ARG:HD2	1.87	0.88
5:Q:152:HIS:O	5:Q:153:ILE:HG13	1.74	0.88
2:N:556:MET:HE3	2:N:573:ILE:CG2	1.73	0.88
2:B:806:THR:HG22	2:B:808:ALA:H	1.38	0.88
5:E:21:MET:HE3	5:E:25:ARG:HE	1.39	0.88
1:A:1397:THR:CG2	1:A:1401:MET:SD	2.62	0.87
1:A:1450:GLU:OE2	7:G:23:ASN:N	2.06	0.87
2:N:1181:GLU:HA	2:N:1187:ASN:O	1.74	0.87
1:A:986:PRO:O	1:A:990:HIS:HB2	1.74	0.87
1:M:1339:LEU:HB2	1:M:1347:THR:CB	2.04	0.87
10:V:63:ASN:HB3	10:V:64:PRO:HD3	1.54	0.87
3:O:74:GLU:HB3	3:O:128:ASN:HB3	1.55	0.87
10:V:1:MET:N	10:V:55:LEU:H	1.72	0.87
1:A:776:ILE:HG23	1:A:819:MET:CE	2.04	0.87
2:B:1181:GLU:HA	2:B:1187:ASN:O	1.75	0.87
1:M:1351:LEU:O	1:M:1355:ILE:HG22	1.75	0.87
2:B:556:MET:HE2	2:B:573:ILE:CG2	2.03	0.87
2:N:519:GLU:OE2	2:N:752:ALA:HB2	1.74	0.87
1:A:799:GLY:HA2	1:A:816:PHE:HD1	1.26	0.87
1:A:1339:LEU:HB2	1:A:1347:THR:CB	2.04	0.87
2:N:806:THR:HG22	2:N:808:ALA:H	1.38	0.87
5:Q:89:ILE:HG21	5:Q:118:SER:HB2	1.54	0.87
11:W:49:GLU:HG3	11:W:94:ILE:HG12	1.53	0.87
2:B:821:GLN:HE22	2:B:851:PHE:H	1.21	0.87
6:F:132:LEU:HD22	7:G:61:ILE:HD12	1.55	0.87
1:M:496:GLU:HB3	6:R:99:LEU:CB	2.04	0.87
2:N:556:MET:HE2	2:N:573:ILE:CG2	2.03	0.87
2:B:1180:PHE:HB3	2:B:1191:ILE:HD13	1.57	0.87
5:E:152:HIS:O	5:E:153:ILE:HG13	1.73	0.87
1:A:447:ARG:HB2	1:A:488:MET:SD	2.15	0.86
1:A:1447:MET:HA	7:G:60:ARG:HA	1.54	0.86
3:O:30:ASN:O	3:O:33:ARG:HB3	1.75	0.86
1:A:638:LYS:HB3	1:A:642:ILE:CG1	2.05	0.86
1:M:246:GLN:O	2:N:1114:LEU:HD13	1.72	0.86
2:B:519:GLU:OE2	2:B:752:ALA:HB2	1.75	0.86
2:B:766:ARG:NH2	2:B:1020:ARG:HH11	1.74	0.86
3:C:42:THR:HG22	3:C:43:LEU:N	1.90	0.86
6:F:100:GLN:HE21	7:G:66:GLY:CA	1.88	0.86
1:A:801:VAL:CG1	1:A:809:LEU:HG	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:132:LEU:HD22	7:G:61:ILE:CD1	2.05	0.86
1:M:447:ARG:HB2	1:M:488:MET:SD	2.15	0.86
1:M:496:GLU:HB3	6:R:99:LEU:HB3	1.55	0.86
2:B:509:ASN:HD22	2:B:509:ASN:N	1.70	0.86
3:C:30:ASN:O	3:C:33:ARG:HB3	1.75	0.86
5:Q:21:MET:HE3	5:Q:25:ARG:HE	1.39	0.86
2:N:514:LEU:HD22	2:N:626:VAL:HG12	1.55	0.86
1:M:902:LEU:H	1:M:927:GLN:HE21	1.22	0.86
1:A:380:THR:OG1	6:F:102:SER:O	1.93	0.86
2:N:158:ILE:HG22	2:N:446:ILE:HD12	1.56	0.86
1:A:1447:MET:CG	7:G:60:ARG:HB3	2.06	0.86
7:G:138:THR:CG2	7:G:139:LYS:H	1.87	0.86
1:A:780:PHE:CE1	1:A:786:PRO:HD3	2.11	0.85
2:B:957:ASN:HD22	2:B:961:LEU:HD12	1.39	0.85
2:B:1095:LEU:H	2:B:1095:LEU:HD12	1.39	0.85
2:N:1095:LEU:H	2:N:1095:LEU:HD12	1.39	0.85
1:M:75:ALA:HA	2:N:1116:ARG:CZ	2.05	0.85
3:C:138:TYR:O	3:C:139:ASP:CB	2.25	0.85
7:G:80:LYS:O	7:G:80:LYS:HG2	1.76	0.85
11:K:21:ILE:HG12	11:K:33:ILE:HG12	1.58	0.85
2:B:158:ILE:HG22	2:B:446:ILE:HD12	1.56	0.85
3:C:9:ILE:HD11	11:K:108:GLU:HB3	1.58	0.85
1:M:342:MET:O	2:N:1132:GLU:CG	2.25	0.85
1:M:346:VAL:HG13	2:N:1130:PHE:HB2	1.44	0.85
3:O:42:THR:HG22	3:O:43:LEU:N	1.90	0.85
2:B:556:MET:HE2	2:B:573:ILE:HG23	1.58	0.85
2:B:1207:LEU:HB3	2:B:1212:ILE:HG22	1.57	0.85
5:E:81:PHE:HA	5:E:110:ILE:HG23	1.58	0.85
2:B:766:ARG:HH22	2:B:1020:ARG:NH1	1.75	0.85
6:F:103:MET:CE	7:G:65:SER:CB	2.52	0.85
2:N:821:GLN:HE22	2:N:851:PHE:H	1.21	0.85
1:M:1388:THR:HG23	1:M:1390:HIS:H	1.41	0.85
2:N:766:ARG:HH22	2:N:1020:ARG:NH1	1.75	0.85
1:A:1327:SER:HB2	5:E:141:VAL:HG11	1.59	0.85
8:H:92:TYR:HB3	8:H:143:ILE:O	1.77	0.85
1:M:342:MET:CE	1:M:844:LYS:HZ3	1.83	0.84
1:A:638:LYS:HB2	1:A:642:ILE:CG1	2.07	0.84
5:E:89:ILE:HG21	5:E:118:SER:HB2	1.56	0.84
2:N:766:ARG:NH2	2:N:1020:ARG:HH11	1.74	0.84
3:O:5:PRO:HB3	3:O:24:VAL:HG12	1.58	0.84
1:A:1448:ILE:HG12	7:G:68:ALA:CB	2.06	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:780:PHE:CE1	1:M:786:PRO:HD3	2.11	0.84
11:W:21:ILE:HG12	11:W:33:ILE:HG12	1.58	0.84
2:B:852:ARG:HH22	12:L:72:THR:C	1.86	0.84
1:A:1078:ALA:HA	1:A:1081:MET:HE2	1.60	0.84
3:C:5:PRO:HB3	3:C:24:VAL:HG12	1.58	0.84
1:M:776:ILE:HG23	1:M:819:MET:HE1	1.60	0.84
1:M:1441:THR:CG2	2:N:1144:ALA:CB	2.55	0.84
1:A:493:PRO:HB3	1:A:502:LEU:HD12	1.59	0.84
1:A:801:VAL:HG13	1:A:809:LEU:HG	1.58	0.84
1:M:983:LEU:HD21	1:M:1041:ARG:HA	1.58	0.84
1:M:1078:ALA:HA	1:M:1081:MET:HE2	1.60	0.84
2:N:1180:PHE:HB3	2:N:1191:ILE:HD13	1.57	0.84
2:B:206:GLN:HE22	2:B:492:ASN:HB3	1.41	0.84
1:M:776:ILE:HG23	1:M:819:MET:CE	2.08	0.84
2:N:556:MET:HE2	2:N:573:ILE:HG23	1.58	0.84
2:N:1207:LEU:HB3	2:N:1212:ILE:HG22	1.57	0.84
3:O:9:ILE:HD11	11:W:108:GLU:HB3	1.58	0.84
1:A:1388:THR:HG23	1:A:1390:HIS:H	1.42	0.84
9:I:95:THR:HG22	9:I:96:ASN:H	1.43	0.84
1:M:1327:SER:HB2	5:Q:141:VAL:HG11	1.59	0.84
5:Q:89:ILE:CG2	5:Q:119:ALA:HA	2.05	0.84
1:A:900:VAL:HB	1:A:930:LEU:HD11	1.59	0.84
2:B:801:LYS:O	10:J:51:THR:HG23	1.78	0.84
1:A:983:LEU:HD21	1:A:1041:ARG:HA	1.58	0.83
3:C:175:ALA:CB	10:J:42:ARG:HH22	1.91	0.83
1:M:764:ALA:O	1:M:804:SER:HB3	1.78	0.83
2:N:852:ARG:HH22	12:X:72:THR:C	1.85	0.83
3:O:175:ALA:CB	10:V:42:ARG:HH22	1.90	0.83
5:Q:89:ILE:CG2	5:Q:118:SER:HB2	2.08	0.83
1:A:1447:MET:HG3	7:G:60:ARG:HB2	1.59	0.83
3:O:138:TYR:O	3:O:139:ASP:CB	2.25	0.83
1:A:564:PRO:HG3	1:A:573:TRP:CZ2	2.12	0.83
1:A:1354:GLU:O	1:A:1358:VAL:HG23	1.78	0.83
10:J:47:ARG:HH21	10:J:48:MET:HE1	1.42	0.83
2:N:249:LEU:HB2	2:N:378:LEU:HD21	1.60	0.83
8:T:92:TYR:HB3	8:T:143:ILE:O	1.78	0.83
11:W:43:ALA:HB1	11:W:61:TYR:HD1	1.38	0.83
2:N:1114:LEU:O	2:N:1198:TYR:CZ	2.31	0.83
1:A:1447:MET:CB	7:G:59:GLY:C	2.41	0.83
2:B:476:LEU:HD11	2:B:484:THR:HG23	1.61	0.83
1:M:564:PRO:HG3	1:M:573:TRP:CZ2	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:900:VAL:HB	1:M:930:LEU:HD11	1.59	0.83
1:M:1244:VAL:O	1:M:1245:ILE:CG1	2.27	0.83
1:M:1354:GLU:O	1:M:1358:VAL:HG23	1.78	0.83
8:T:38:LEU:HD11	8:T:122:MET:HE2	1.60	0.83
10:V:47:ARG:HH21	10:V:48:MET:HE1	1.42	0.83
1:M:51:GLY:O	1:M:56:PRO:HB3	1.78	0.83
2:N:287:GLY:H	2:N:290:LEU:HD23	1.43	0.83
1:A:55:ASP:CG	1:A:55:ASP:O	2.20	0.83
1:A:1244:VAL:O	1:A:1245:ILE:CG1	2.27	0.83
5:E:25:ARG:HH22	5:E:132:GLU:CD	1.87	0.83
1:M:342:MET:HE3	1:M:844:LYS:HZ3	1.37	0.83
1:M:568:LYS:HB3	8:T:94:TYR:HA	1.61	0.83
1:M:1441:THR:HG22	2:N:1144:ALA:CB	2.08	0.83
1:A:51:GLY:O	1:A:56:PRO:HB3	1.78	0.83
1:M:638:LYS:HB2	1:M:642:ILE:CG1	2.07	0.83
1:M:1389:ARG:CB	1:M:1406:GLU:OE1	2.27	0.83
2:N:206:GLN:HE22	2:N:492:ASN:HB3	1.41	0.83
2:N:476:LEU:HD11	2:N:484:THR:HG23	1.61	0.83
9:I:34:TYR:CD2	9:I:35:THR:N	2.44	0.83
11:K:43:ALA:HB1	11:K:61:TYR:HD1	1.38	0.83
1:M:346:VAL:HG11	2:N:1130:PHE:HB2	1.05	0.83
1:M:493:PRO:HB3	1:M:502:LEU:HD12	1.59	0.83
1:A:799:GLY:HA2	1:A:816:PHE:CG	2.14	0.83
2:B:567:HIS:HA	2:B:584:ARG:HH22	1.44	0.83
2:N:801:LYS:O	10:V:51:THR:HG23	1.78	0.83
7:S:80:LYS:HG2	7:S:80:LYS:O	1.76	0.83
1:A:568:LYS:CD	1:A:569:PRO:HD2	2.09	0.82
2:B:792:MET:HE2	2:B:857:ARG:NH2	1.93	0.82
3:C:257:ASN:HA	3:C:260:PHE:HB3	1.60	0.82
2:N:792:MET:HE2	2:N:857:ARG:NH2	1.93	0.82
4:P:41:HIS:HB2	7:S:73:LYS:NZ	1.94	0.82
9:U:34:TYR:CD2	9:U:35:THR:N	2.44	0.82
1:A:354:ILE:HG21	1:A:488:MET:HG3	1.61	0.82
1:A:764:ALA:O	1:A:804:SER:HB3	1.78	0.82
1:M:354:ILE:HG21	1:M:488:MET:HG3	1.61	0.82
5:Q:25:ARG:HH22	5:Q:132:GLU:CD	1.87	0.82
2:B:1115:THR:O	2:B:1198:TYR:CD2	2.33	0.82
1:M:1013:GLN:O	1:M:1017:THR:CG2	2.28	0.82
1:M:1448:ILE:CG2	7:S:61:ILE:CD1	2.48	0.82
2:N:1065:GLN:HB2	3:O:201:TRP:CZ3	2.15	0.82
5:E:89:ILE:CG2	5:E:119:ALA:HA	2.04	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:346:VAL:N	2:N:1129:ARG:HA	1.94	0.82
1:M:1373:LEU:O	1:M:1377:VAL:HG23	1.80	0.82
2:B:1065:GLN:HB2	3:C:201:TRP:CZ3	2.15	0.82
3:C:97:VAL:O	3:C:98:LEU:HD23	1.79	0.82
4:D:41:HIS:HB2	7:G:73:LYS:NZ	1.94	0.82
1:A:246:GLN:O	2:B:1114:LEU:CD1	2.28	0.82
1:M:345:ARG:HA	2:N:1129:ARG:HA	0.87	0.82
1:M:568:LYS:CD	1:M:569:PRO:HD2	2.09	0.82
4:P:105:THR:O	4:P:109:LEU:HB2	1.80	0.82
2:B:942:ARG:HB2	2:B:945:GLU:HG3	1.62	0.82
1:M:1241:ARG:HH22	1:M:1243:ARG:HH22	1.26	0.82
1:M:1389:ARG:HG3	1:M:1406:GLU:CB	2.10	0.82
2:N:1149:GLU:CA	2:N:1153:GLU:OE1	2.23	0.82
1:A:240:LEU:HD12	1:A:241:PRO:HD2	1.61	0.82
9:U:95:THR:HG22	9:U:96:ASN:H	1.43	0.82
2:B:1223:VAL:O	2:B:1224:SER:HB2	1.79	0.81
4:D:105:THR:O	4:D:109:LEU:HB2	1.80	0.81
2:B:249:LEU:HB2	2:B:378:LEU:HD21	1.60	0.81
2:B:287:GLY:H	2:B:290:LEU:HD23	1.43	0.81
2:B:797:TYR:C	2:B:798:TYR:HD2	1.87	0.81
2:B:899:ILE:HD11	2:B:911:ILE:HG23	1.62	0.81
5:E:89:ILE:CG2	5:E:118:SER:HB2	2.09	0.81
8:H:38:LEU:HD11	8:H:122:MET:HE2	1.60	0.81
2:N:394:PHE:CD2	2:N:514:LEU:HD12	2.15	0.81
1:A:568:LYS:HB3	8:H:94:TYR:HA	1.61	0.81
1:M:240:LEU:HD12	1:M:241:PRO:HD2	1.62	0.81
1:M:1397:THR:HG22	1:M:1401:MET:SD	2.20	0.81
2:B:52:GLU:HG3	2:B:53:GLU:H	1.46	0.81
7:G:127:PRO:HG2	7:G:138:THR:HG21	1.63	0.81
10:J:42:ARG:HD3	10:J:42:ARG:H	1.45	0.81
2:N:797:TYR:C	2:N:798:TYR:HD2	1.87	0.81
7:S:127:PRO:HG2	7:S:138:THR:HG21	1.63	0.81
9:U:14:LEU:HD12	9:U:27:TYR:HB3	1.63	0.81
10:V:42:ARG:H	10:V:42:ARG:HD3	1.45	0.81
8:H:63:LEU:C	8:H:89:ALA:HB3	2.05	0.81
1:M:345:ARG:CA	2:N:1129:ARG:CA	2.21	0.81
2:N:52:GLU:HG3	2:N:53:GLU:H	1.46	0.81
2:N:567:HIS:HA	2:N:584:ARG:HH22	1.44	0.81
2:N:1217:TYR:OH	4:P:13:ARG:O	1.99	0.81
1:A:1373:LEU:O	1:A:1377:VAL:HG23	1.80	0.81
3:C:100:LEU:HD13	3:C:118:LEU:HD23	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:257:ASN:HA	3:O:260:PHE:HB3	1.60	0.81
12:X:51:LYS:O	12:X:52:GLU:HB2	1.81	0.81
1:A:1447:MET:HG2	7:G:59:GLY:C	2.04	0.81
1:M:14:VAL:HG21	2:N:1216:LEU:HD12	1.63	0.81
3:O:97:VAL:O	3:O:98:LEU:HD23	1.79	0.81
3:O:100:LEU:HD13	3:O:118:LEU:HD23	1.62	0.81
3:O:244:PHE:O	3:O:248:ILE:HG13	1.81	0.81
1:A:710:THR:HG22	1:A:712:ARG:H	1.46	0.81
2:N:387:ASP:OD1	9:U:91:ARG:HG3	1.81	0.81
2:B:206:GLN:NE2	2:B:492:ASN:HB3	1.96	0.80
2:N:899:ILE:HD11	2:N:911:ILE:HG23	1.62	0.80
10:V:16:ASP:OD1	10:V:17:LYS:HD2	1.81	0.80
1:A:568:LYS:HB3	8:H:95:VAL:H	1.46	0.80
2:B:371:LEU:O	2:B:375:VAL:HG23	1.81	0.80
9:I:14:LEU:HD12	9:I:27:TYR:HB3	1.62	0.80
2:N:1223:VAL:O	2:N:1224:SER:HB2	1.79	0.80
7:S:89:ALA:HB2	7:S:103:VAL:HA	1.64	0.80
1:A:568:LYS:HB2	1:A:569:PRO:CD	2.11	0.80
1:A:1221:VAL:HG11	1:A:1274:ILE:HD11	1.62	0.80
1:M:1116:PRO:HB2	1:M:1314:ILE:CG2	2.11	0.80
2:N:371:LEU:O	2:N:375:VAL:HG23	1.81	0.80
1:A:801:VAL:HA	1:A:813:GLU:HG2	1.63	0.80
1:M:1191:SER:O	1:M:1243:ARG:HD3	1.80	0.80
1:M:1221:VAL:HG11	1:M:1274:ILE:HD11	1.62	0.80
1:A:37:TYR:HB2	1:A:52:GLY:HA3	1.63	0.80
1:A:1013:GLN:O	1:A:1017:THR:CG2	2.28	0.80
1:A:1191:SER:O	1:A:1243:ARG:HD3	1.80	0.80
1:M:568:LYS:HB2	1:M:569:PRO:CD	2.11	0.80
5:Q:134:PHE:HB3	5:Q:139:LEU:HD11	1.64	0.80
8:T:63:LEU:C	8:T:89:ALA:HB3	2.05	0.80
2:B:305:MET:HE3	2:B:379:LEU:HD22	1.64	0.80
2:N:305:MET:HE3	2:N:379:LEU:HD22	1.64	0.80
2:B:1129:ARG:HG2	2:B:1131:GLY:H	1.47	0.80
2:N:1129:ARG:HG2	2:N:1131:GLY:H	1.47	0.80
1:A:447:ARG:HD2	1:A:481:ALA:HB2	1.62	0.80
1:A:1241:ARG:HH22	1:A:1243:ARG:HH22	1.26	0.80
12:L:51:LYS:O	12:L:52:GLU:HB2	1.81	0.80
6:R:109:VAL:HG12	6:R:110:ASP:N	1.96	0.80
9:U:75:CYS:HG	9:U:78:CYS:HG	1.26	0.80
1:A:320:GLY:CA	2:B:464:LYS:HA	2.12	0.80
2:B:1004:GLU:HB2	2:B:1006:ILE:HG12	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:244:PHE:O	3:C:248:ILE:HG13	1.81	0.80
1:M:37:TYR:HB2	1:M:52:GLY:HA3	1.63	0.80
1:M:41:MET:HB3	1:M:49:ARG:CA	2.12	0.80
1:M:344:LYS:O	2:N:1130:PHE:N	2.14	0.80
2:N:942:ARG:HB2	2:N:945:GLU:HG3	1.62	0.80
1:A:14:VAL:HG21	2:B:1216:LEU:HD12	1.63	0.80
1:A:61:ILE:HG22	1:A:62:ASP:H	1.47	0.80
2:N:325:PHE:O	2:N:326:ILE:HG13	1.82	0.80
3:C:104:HIS:CB	3:C:148:ARG:O	2.30	0.79
1:M:55:ASP:CG	1:M:55:ASP:O	2.20	0.79
2:B:893:LEU:HD11	2:B:910:ILE:CG1	2.12	0.79
10:J:16:ASP:OD1	10:J:17:LYS:HD2	1.81	0.79
1:M:568:LYS:HB3	8:T:95:VAL:N	1.97	0.79
1:M:1448:ILE:HG13	7:S:61:ILE:HG13	1.63	0.79
2:N:1004:GLU:HB2	2:N:1006:ILE:HG12	1.64	0.79
1:A:529:LEU:O	1:A:532:VAL:HG12	1.82	0.79
8:H:134:LEU:HD13	8:H:136:GLN:HE21	1.47	0.79
2:N:800:GLN:HG2	10:V:51:THR:HG22	1.64	0.79
3:O:104:HIS:CB	3:O:148:ARG:O	2.30	0.79
2:B:1168:LEU:HD13	2:B:1208:MET:HE3	1.64	0.79
5:E:134:PHE:HB3	5:E:139:LEU:HD11	1.64	0.79
1:M:75:ALA:HA	2:N:1116:ARG:HH22	1.45	0.79
1:M:447:ARG:HD2	1:M:481:ALA:HB2	1.62	0.79
1:M:769:GLN:HG3	1:M:817:HIS:CA	2.12	0.79
8:H:14:THR:O	8:H:26:ILE:HG23	1.83	0.79
1:M:771:VAL:HA	1:M:823:GLU:OE1	1.83	0.79
2:N:206:GLN:NE2	2:N:492:ASN:HB3	1.96	0.79
1:A:568:LYS:CG	1:A:569:PRO:HD2	2.13	0.79
1:A:838:ILE:HA	1:A:841:ARG:HD3	1.64	0.79
2:B:575:VAL:HG22	2:B:619:ILE:HG21	1.64	0.79
8:H:88:LEU:C	8:H:90:ASP:H	1.90	0.79
2:N:1117:GLN:NE2	2:N:1156:ASP:CG	2.35	0.79
4:P:49:ILE:HG21	7:S:4:LEU:HB2	1.65	0.79
1:A:41:MET:HB3	1:A:49:ARG:CA	2.12	0.79
8:T:134:LEU:HD13	8:T:136:GLN:HE21	1.47	0.79
8:T:14:THR:O	8:T:26:ILE:HG23	1.83	0.79
1:M:86:LEU:HD21	1:M:240:LEU:HB2	1.64	0.79
2:N:596:LEU:HD13	2:N:601:ALA:HB3	1.63	0.79
2:N:846:ILE:HG23	2:N:974:PRO:HG2	1.65	0.79
1:A:568:LYS:CB	8:H:94:TYR:HA	2.13	0.79
2:B:846:ILE:HG23	2:B:974:PRO:HG2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:529:LEU:O	1:M:532:VAL:HG12	1.82	0.79
1:M:568:LYS:HB3	8:T:95:VAL:H	1.46	0.79
2:B:778:MET:CE	2:B:1094:ARG:HD3	2.13	0.78
1:M:568:LYS:CB	8:T:94:TYR:HA	2.13	0.78
2:N:1207:LEU:HB3	2:N:1212:ILE:CG2	2.13	0.78
5:Q:81:PHE:HA	5:Q:110:ILE:HG23	1.65	0.78
1:M:61:ILE:HG22	1:M:62:ASP:H	1.48	0.78
1:M:568:LYS:CG	1:M:569:PRO:HD2	2.12	0.78
3:O:65:ARG:NH1	10:V:2:ILE:HG21	1.98	0.78
2:B:325:PHE:O	2:B:326:ILE:HG13	1.82	0.78
2:B:596:LEU:HD13	2:B:601:ALA:HB3	1.63	0.78
3:C:47:LEU:CB	3:C:158:ILE:CG2	2.54	0.78
7:G:111:SER:HB2	7:G:114:LEU:HD13	1.65	0.78
1:M:346:VAL:CB	2:N:1130:PHE:HB2	2.14	0.78
2:N:514:LEU:HB3	2:N:626:VAL:HG11	1.66	0.78
2:B:514:LEU:HB3	2:B:626:VAL:HG11	1.65	0.78
1:M:710:THR:HG22	1:M:712:ARG:H	1.46	0.78
6:F:103:MET:HE2	7:G:65:SER:HA	1.64	0.78
1:M:1136:ILE:HG22	1:M:1140:ILE:HD11	1.66	0.78
7:S:111:SER:HB2	7:S:114:LEU:HD13	1.65	0.78
1:A:333:LYS:O	1:A:334:GLU:HB2	1.83	0.78
2:B:999:MET:HE2	2:B:1011:ILE:CD1	2.13	0.78
6:F:109:VAL:HG12	6:F:110:ASP:N	1.96	0.78
7:G:89:ALA:HB2	7:G:103:VAL:HA	1.64	0.78
1:M:345:ARG:HA	2:N:1129:ARG:CG	2.14	0.78
3:O:44:ALA:HA	3:O:71:LEU:HD12	1.66	0.78
1:A:86:LEU:HD21	1:A:240:LEU:HB2	1.64	0.78
2:B:800:GLN:HG2	10:J:51:THR:HG22	1.64	0.78
2:B:843:GLN:HA	2:B:846:ILE:HD12	1.66	0.78
1:M:373:LYS:HA	1:M:436:HIS:ND1	1.99	0.78
1:M:769:GLN:CG	1:M:817:HIS:HA	2.14	0.78
2:N:575:VAL:HG22	2:N:619:ILE:HG21	1.64	0.78
2:N:893:LEU:HD11	2:N:910:ILE:CG1	2.13	0.78
2:N:556:MET:HE1	2:N:573:ILE:HG21	1.28	0.78
2:N:999:MET:HE2	2:N:1011:ILE:CD1	2.13	0.78
1:A:1448:ILE:HG12	7:G:68:ALA:HB2	1.61	0.78
2:N:758:PHE:HB2	2:N:1024:ALA:HB1	1.64	0.78
1:A:538:ARG:HH22	8:H:121:LEU:HD12	1.48	0.78
8:H:40:LEU:HD22	8:H:122:MET:HE3	1.66	0.78
1:M:985:ILE:O	1:M:989:ILE:HG23	1.82	0.78
2:N:778:MET:CE	2:N:1094:ARG:HD3	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:809:LEU:HD23	1:A:814:PHE:HA	1.66	0.77
1:A:1116:PRO:HB2	1:A:1314:ILE:CG2	2.14	0.77
2:B:33:GLN:HG3	2:B:34:GLN:H	1.50	0.77
2:B:357:ILE:O	2:B:358:THR:HB	1.83	0.77
3:C:65:ARG:NH1	10:J:2:ILE:HG21	1.98	0.77
1:M:859:ASN:HD22	1:M:859:ASN:C	1.91	0.77
4:P:140:PHE:HZ	7:S:85:GLU:HG3	1.49	0.77
5:Q:47:ASP:CG	5:Q:48:SER:H	1.92	0.77
1:A:373:LYS:HA	1:A:436:HIS:ND1	1.99	0.77
1:A:985:ILE:O	1:A:989:ILE:HG23	1.82	0.77
1:M:684:ILE:HD13	1:M:802:GLU:HG3	1.65	0.77
1:A:568:LYS:HB3	8:H:95:VAL:N	1.97	0.77
1:M:766:VAL:HG23	1:M:803:ASN:O	1.84	0.77
2:N:890:TYR:CG	2:N:910:ILE:HG21	2.20	0.77
2:N:1114:LEU:O	2:N:1198:TYR:CE2	2.38	0.77
3:O:99:GLU:CG	3:O:121:VAL:CG2	2.62	0.77
1:A:1136:ILE:HG22	1:A:1140:ILE:HD11	1.66	0.77
1:A:1163:THR:HG22	1:A:1165:ILE:H	1.50	0.77
2:B:1207:LEU:HB3	2:B:1212:ILE:CG2	2.13	0.77
8:H:141:ILE:C	8:H:142:LEU:HD12	2.10	0.77
1:M:400:HIS:HB3	1:M:401:PRO:HD3	1.67	0.77
1:M:838:ILE:HA	1:M:841:ARG:HD3	1.65	0.77
1:M:1389:ARG:HG3	1:M:1406:GLU:HB2	1.63	0.77
8:T:88:LEU:C	8:T:90:ASP:H	1.91	0.77
1:A:546:GLN:HG2	1:A:550:MET:HE2	1.67	0.77
1:A:597:SER:O	1:A:599:LEU:N	2.17	0.77
5:E:28:PHE:O	5:E:29:ILE:HG13	1.84	0.77
10:V:1:MET:H1	10:V:56:ILE:H	1.30	0.77
1:A:400:HIS:HB3	1:A:401:PRO:HD3	1.67	0.77
1:A:766:VAL:HG23	1:A:803:ASN:O	1.84	0.77
1:A:1155:TYR:HB2	1:A:1194:LEU:HD23	1.67	0.77
2:B:758:PHE:HB2	2:B:1024:ALA:HB1	1.64	0.77
1:M:342:MET:O	2:N:1132:GLU:HG3	1.83	0.77
2:N:1168:LEU:HD13	2:N:1208:MET:HE3	1.64	0.77
1:A:24:PRO:O	1:A:27:ILE:HG23	1.84	0.77
1:M:1074:ILE:HD11	1:M:1371:MET:HA	1.66	0.77
1:M:1352:TYR:O	1:M:1355:ILE:HG23	1.85	0.77
2:N:491:THR:HG22	2:N:530:LYS:H	1.49	0.77
8:T:40:LEU:HD22	8:T:122:MET:HE3	1.67	0.77
1:A:902:LEU:HB2	1:A:927:GLN:HG2	1.66	0.77
2:B:701:ALA:HB2	2:B:738:PHE:CD2	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:899:ILE:HG22	2:B:903:VAL:HG21	1.66	0.77
7:G:45:ILE:HA	7:G:78:VAL:HG12	1.66	0.77
7:G:88:ASP:HB3	7:G:144:ARG:CA	2.15	0.77
1:M:815:PHE:CD1	2:N:512:TRP:CE3	2.72	0.77
2:N:357:ILE:O	2:N:358:THR:HB	1.83	0.77
2:N:701:ALA:HB2	2:N:738:PHE:CD2	2.19	0.77
2:N:843:GLN:HA	2:N:846:ILE:HD12	1.66	0.77
4:D:49:ILE:HG21	7:G:4:LEU:HB2	1.65	0.77
1:M:809:LEU:HD23	1:M:814:PHE:HA	1.66	0.77
11:W:47:ARG:HD3	11:W:59:VAL:O	1.85	0.77
11:W:53:TYR:C	11:W:55:ASP:H	1.92	0.77
1:A:1074:ILE:HD11	1:A:1371:MET:HA	1.66	0.77
3:C:99:GLU:CG	3:C:121:VAL:CG2	2.62	0.77
1:M:41:MET:HA	1:M:50:GLU:H	1.50	0.77
1:M:333:LYS:O	1:M:334:GLU:HB2	1.84	0.77
1:M:710:THR:HG21	9:U:93:LYS:O	1.85	0.77
2:N:387:ASP:CG	9:U:91:ARG:HG3	2.10	0.77
1:A:58:LEU:HD22	1:A:80:HIS:O	1.85	0.76
1:A:822:ARG:HB2	1:A:822:ARG:HH11	1.49	0.76
1:A:900:VAL:HG22	1:A:1031:ARG:HG2	1.67	0.76
8:H:99:THR:HG23	8:H:137:ASP:HA	1.67	0.76
11:K:47:ARG:HD3	11:K:59:VAL:O	1.85	0.76
1:M:597:SER:O	1:M:599:LEU:N	2.18	0.76
1:M:822:ARG:HH11	1:M:822:ARG:HB2	1.48	0.76
3:O:236:GLY:O	3:O:238:LEU:N	2.19	0.76
5:Q:28:PHE:O	5:Q:29:ILE:HG13	1.84	0.76
2:B:890:TYR:CG	2:B:910:ILE:HG21	2.20	0.76
3:C:236:GLY:O	3:C:238:LEU:N	2.19	0.76
1:M:538:ARG:HH22	8:T:121:LEU:HD12	1.48	0.76
1:M:1389:ARG:HB2	1:M:1406:GLU:CD	2.08	0.76
2:N:387:ASP:OD1	9:U:91:ARG:CG	2.33	0.76
7:S:45:ILE:HA	7:S:78:VAL:HG12	1.66	0.76
7:S:89:ALA:HB2	7:S:103:VAL:HG22	1.67	0.76
1:A:684:ILE:HD13	1:A:802:GLU:HG3	1.65	0.76
1:A:989:ILE:CG1	1:A:990:HIS:N	2.49	0.76
1:A:1448:ILE:CG1	7:G:68:ALA:HB1	2.13	0.76
11:K:53:TYR:C	11:K:55:ASP:H	1.92	0.76
1:M:546:GLN:HG2	1:M:550:MET:HE2	1.67	0.76
2:N:1117:GLN:HG3	2:N:1156:ASP:OD1	1.85	0.76
8:T:141:ILE:C	8:T:142:LEU:HD12	2.10	0.76
1:A:1449:ASP:HB3	1:A:1452:LEU:CG	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:491:THR:HG22	2:B:530:LYS:H	1.49	0.76
1:M:58:LEU:HD22	1:M:80:HIS:O	1.85	0.76
1:M:309:ILE:HG22	1:M:310:ALA:H	1.50	0.76
1:M:344:LYS:HA	2:N:1129:ARG:NH1	2.00	0.76
1:M:815:PHE:CD1	2:N:512:TRP:HE3	2.03	0.76
1:M:1155:TYR:HB2	1:M:1194:LEU:HD23	1.67	0.76
1:A:41:MET:HA	1:A:50:GLU:H	1.50	0.76
2:B:279:ARG:HG2	2:B:284:VAL:HA	1.67	0.76
5:E:47:ASP:CG	5:E:48:SER:H	1.92	0.76
1:M:24:PRO:O	1:M:27:ILE:HG23	1.85	0.76
2:N:702:MET:HA	2:N:702:MET:HE3	1.66	0.76
1:A:769:GLN:HG3	1:A:817:HIS:CA	2.16	0.76
2:N:287:GLY:N	2:N:290:LEU:HD23	1.99	0.76
2:N:1221:SER:HB2	4:P:12:ARG:CB	2.12	0.76
3:C:165:LYS:O	11:K:6:ARG:NH1	2.19	0.76
2:N:1094:ARG:HH21	2:N:1098:MET:HG2	1.51	0.76
3:O:104:HIS:CB	3:O:149:ASN:O	2.34	0.76
1:A:383:GLN:HB3	1:A:429:TYR:HE2	1.50	0.76
2:B:12:ILE:HD11	2:B:647:ILE:CG1	2.16	0.76
3:C:104:HIS:CB	3:C:149:ASN:O	2.34	0.76
5:E:116:THR:HG22	5:E:118:SER:H	1.51	0.76
1:M:35:ILE:O	1:M:35:ILE:HG22	1.86	0.76
1:M:902:LEU:HB2	1:M:927:GLN:HG2	1.67	0.76
1:M:1449:ASP:HB3	1:M:1452:LEU:CG	2.16	0.76
1:A:495:SER:O	1:A:499:ARG:HG3	1.86	0.76
2:B:287:GLY:N	2:B:290:LEU:HD23	1.99	0.76
1:M:53:LEU:CD2	1:M:54:ASN:H	1.97	0.76
1:M:383:GLN:HB3	1:M:429:TYR:HE2	1.51	0.76
1:M:801:VAL:HG13	1:M:809:LEU:HG	1.68	0.76
8:T:99:THR:HG23	8:T:137:ASP:HA	1.68	0.76
2:B:24:PHE:HE1	2:B:28:LYS:HG3	1.51	0.76
2:B:484:THR:O	2:B:488:LEU:HD12	1.86	0.76
1:M:853:TYR:HH	1:M:1444:PHE:HD2	1.34	0.76
2:N:551:LEU:C	2:N:553:GLU:H	1.93	0.76
11:W:43:ALA:CB	11:W:61:TYR:CD1	2.47	0.76
1:A:483:PHE:O	2:B:989:THR:HG23	1.86	0.75
2:B:702:MET:HA	2:B:702:MET:HE3	1.66	0.75
1:M:989:ILE:CG1	1:M:990:HIS:N	2.49	0.75
1:A:53:LEU:CD2	1:A:54:ASN:H	1.97	0.75
1:A:303:THR:HG22	1:A:304:TYR:N	2.01	0.75
1:A:444:LEU:HD23	1:A:502:LEU:HD21	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1094:ARG:HH21	2:B:1098:MET:HG2	1.50	0.75
2:N:33:GLN:HG3	2:N:34:GLN:H	1.50	0.75
2:N:484:THR:O	2:N:488:LEU:HD12	1.86	0.75
5:Q:201:SER:OG	5:Q:203:THR:HG22	1.86	0.75
10:V:35:LEU:HB2	10:V:46:ARG:HH12	1.51	0.75
1:M:859:ASN:ND2	1:M:861:LEU:H	1.84	0.75
2:N:394:PHE:CD2	2:N:514:LEU:CD1	2.69	0.75
3:O:165:LYS:O	11:W:6:ARG:NH1	2.19	0.75
1:A:35:ILE:HG22	1:A:35:ILE:O	1.86	0.75
3:C:44:ALA:HA	3:C:71:LEU:HD12	1.66	0.75
1:M:413:ARG:HH22	2:N:1108:ARG:HH22	1.32	0.75
1:M:772:GLU:N	1:M:823:GLU:OE2	2.15	0.75
2:N:457:GLY:O	2:N:470:ALA:HA	1.87	0.75
2:N:899:ILE:HG22	2:N:903:VAL:HG21	1.66	0.75
2:N:1016:ALA:O	2:N:1020:ARG:HG3	1.87	0.75
7:S:89:ALA:HB2	7:S:103:VAL:CA	2.17	0.75
1:A:413:ARG:HH22	2:B:1108:ARG:HH22	1.32	0.75
1:A:710:THR:HG21	9:I:93:LYS:O	1.85	0.75
7:G:13:LEU:HD21	7:G:17:TYR:HB2	1.69	0.75
1:M:253:MET:O	1:M:254:ASP:HB2	1.86	0.75
1:M:483:PHE:O	2:N:989:THR:HG23	1.86	0.75
2:N:744:HIS:HD2	2:N:746:SER:OG	1.69	0.75
3:O:38:ALA:HA	3:O:164:ALA:HB3	1.67	0.75
2:B:229:ALA:HB3	2:B:247:ILE:HG23	1.68	0.75
2:B:1016:ALA:O	2:B:1020:ARG:HG3	1.87	0.75
3:C:181:ASP:CG	3:C:186:LEU:HD13	2.12	0.75
1:M:346:VAL:CG2	2:N:1130:PHE:HB2	2.16	0.75
1:M:444:LEU:HD23	1:M:502:LEU:HD21	1.69	0.75
1:M:1006:ASN:CG	5:Q:166:ARG:HD2	2.12	0.75
2:N:1215:ARG:CD	4:P:15:ALA:HB2	2.15	0.75
10:J:35:LEU:HB2	10:J:46:ARG:HH12	1.51	0.75
1:M:504:GLN:NE2	6:R:90:ARG:HH21	1.85	0.75
1:M:900:VAL:HG22	1:M:1031:ARG:HG2	1.67	0.75
2:B:1069:PHE:H	2:B:1069:PHE:HD1	1.34	0.75
4:D:140:PHE:HZ	7:G:85:GLU:HG3	1.49	0.75
1:M:495:SER:O	1:M:499:ARG:HG3	1.86	0.75
2:N:279:ARG:HG2	2:N:284:VAL:HA	1.67	0.75
10:J:1:MET:H1	10:J:56:ILE:H	1.35	0.75
2:N:394:PHE:HE2	2:N:626:VAL:HB	1.52	0.75
3:C:38:ALA:HA	3:C:164:ALA:HB3	1.67	0.74
5:E:92:MET:HE2	5:E:119:ALA:HB1	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:56:VAL:HA	11:K:77:THR:HG22	1.69	0.74
2:N:229:ALA:HB3	2:N:247:ILE:CG2	2.17	0.74
2:N:229:ALA:HB3	2:N:247:ILE:HG23	1.68	0.74
6:F:109:VAL:HG11	6:F:123:LYS:HG2	1.70	0.74
1:M:303:THR:HG22	1:M:304:TYR:N	2.01	0.74
1:M:319:SER:O	2:N:463:LYS:C	2.30	0.74
1:M:1163:THR:HG22	1:M:1165:ILE:H	1.50	0.74
2:N:1114:LEU:HD11	2:N:1202:LEU:HD11	1.69	0.74
5:Q:116:THR:HG22	5:Q:118:SER:H	1.51	0.74
1:A:859:ASN:C	1:A:859:ASN:HD22	1.91	0.74
1:A:1448:ILE:CG2	7:G:18:PHE:CE2	2.54	0.74
2:B:1117:GLN:HG3	2:B:1156:ASP:OD1	1.85	0.74
6:F:103:MET:CE	7:G:65:SER:CA	2.66	0.74
2:N:356:HIS:O	2:N:357:ILE:HB	1.86	0.74
5:Q:92:MET:HE2	5:Q:119:ALA:HB1	1.69	0.74
1:A:536:THR:HG21	1:A:617:VAL:HA	1.70	0.74
2:B:457:GLY:O	2:B:470:ALA:HA	1.87	0.74
1:M:1129:ASP:HB3	1:M:1132:LYS:HB3	1.70	0.74
1:M:1444:PHE:HA	6:R:137:TYR:HD1	1.53	0.74
2:N:802:PRO:HA	2:N:822:ASN:HD21	1.52	0.74
10:V:42:ARG:HD3	10:V:42:ARG:N	2.02	0.74
1:A:667:ILE:HD12	1:A:668:GLY:H	1.53	0.74
2:B:1220:ARG:NH1	2:B:1220:ARG:HB3	2.02	0.74
1:M:568:LYS:HB3	8:T:94:TYR:CA	2.18	0.74
1:M:672:ALA:HB3	1:M:677:MET:HG2	1.70	0.74
3:O:181:ASP:CG	3:O:186:LEU:HD13	2.12	0.74
7:S:88:ASP:HB3	7:S:144:ARG:CA	2.15	0.74
9:U:34:TYR:HD2	9:U:35:THR:H	1.34	0.74
1:A:856:THR:HG21	1:A:858:ARG:HE	1.53	0.74
1:A:859:ASN:ND2	1:A:861:LEU:H	1.84	0.74
3:C:65:ARG:HH21	10:J:5:VAL:HG23	1.52	0.74
1:M:318:LYS:O	1:M:319:SER:HB3	1.88	0.74
1:A:1129:ASP:HB3	1:A:1132:LYS:HB3	1.70	0.74
2:B:802:PRO:HA	2:B:822:ASN:HD21	1.52	0.74
3:C:141:GLY:C	3:C:142:ILE:CG1	2.58	0.74
10:J:42:ARG:HD3	10:J:42:ARG:N	2.01	0.74
1:M:1215:ALA:HB1	1:M:1230:TRP:CZ3	2.23	0.74
2:N:1172:ILE:O	2:N:1172:ILE:HG22	1.88	0.74
2:N:1202:LEU:HD23	2:N:1206:GLU:HG3	1.70	0.74
1:A:1244:VAL:C	1:A:1245:ILE:CG1	2.60	0.74
2:B:551:LEU:C	2:B:553:GLU:H	1.94	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:53:LEU:O	4:D:55:GLU:N	2.20	0.74
5:E:201:SER:OG	5:E:203:THR:HG22	1.87	0.74
6:F:92:ARG:NH2	7:G:63:PRO:HG3	2.03	0.74
1:M:74:MET:O	2:N:1116:ARG:NH2	2.20	0.74
2:N:12:ILE:HD11	2:N:647:ILE:CG1	2.16	0.74
3:O:35:THR:HG21	3:O:251:LEU:HD22	1.68	0.74
1:A:253:MET:O	1:A:254:ASP:HB2	1.86	0.74
1:A:886:THR:O	1:A:941:ARG:HD2	1.88	0.74
1:A:1447:MET:CG	7:G:59:GLY:C	2.60	0.74
2:B:980:PHE:CE2	2:B:1094:ARG:HG3	2.22	0.74
7:G:89:ALA:HB2	7:G:103:VAL:HG22	1.68	0.74
9:U:61:ASP:O	9:U:64:GLN:CG	2.36	0.74
1:A:738:LEU:HD13	1:A:742:ASN:OD1	1.88	0.74
2:B:810:GLU:HB2	2:B:815:ARG:HH22	1.53	0.74
1:M:505:LEU:CD1	6:R:91:ALA:HB1	2.18	0.74
1:M:667:ILE:HD12	1:M:668:GLY:H	1.53	0.74
1:M:738:LEU:HD13	1:M:742:ASN:OD1	1.88	0.74
2:N:503:LYS:HG2	2:N:504:PRO:CD	2.17	0.74
2:N:889:THR:HG22	2:N:891:GLU:H	1.53	0.74
11:W:56:VAL:HA	11:W:77:THR:HG22	1.69	0.74
2:B:251:GLY:O	2:B:259:ARG:HD3	1.87	0.73
2:B:744:HIS:HD2	2:B:746:SER:OG	1.69	0.73
5:E:89:ILE:HG23	5:E:119:ALA:CA	2.10	0.73
6:F:109:VAL:CG1	6:F:110:ASP:H	1.99	0.73
7:G:89:ALA:HB2	7:G:103:VAL:CA	2.17	0.73
9:I:61:ASP:O	9:I:64:GLN:CG	2.36	0.73
1:M:354:ILE:CG2	1:M:488:MET:HG3	2.17	0.73
1:M:630:LEU:O	1:M:633:THR:HG23	1.88	0.73
1:M:886:THR:O	1:M:941:ARG:HD2	1.88	0.73
1:A:16:GLU:HG2	1:A:1421:LEU:HD11	1.70	0.73
1:A:226:ASN:HD22	1:A:229:TYR:H	1.36	0.73
1:A:309:ILE:HG22	1:A:310:ALA:H	1.50	0.73
2:B:202:VAL:HG23	2:B:476:LEU:HB2	1.71	0.73
2:N:890:TYR:HA	2:N:910:ILE:HG23	1.69	0.73
2:N:1220:ARG:HB3	2:N:1220:ARG:NH1	2.02	0.73
1:A:1215:ALA:HB1	1:A:1230:TRP:CZ3	2.23	0.73
2:B:503:LYS:HG2	2:B:504:PRO:CD	2.17	0.73
2:B:889:THR:HG22	2:B:891:GLU:H	1.53	0.73
8:H:88:LEU:O	8:H:90:ASP:N	2.22	0.73
1:M:346:VAL:HG13	2:N:1130:PHE:CA	2.16	0.73
2:N:24:PHE:HE1	2:N:28:LYS:HG3	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:630:LEU:O	1:A:633:THR:HG23	1.88	0.73
1:A:1006:ASN:CG	5:E:166:ARG:HD2	2.12	0.73
1:A:1032:ARG:HG2	1:A:1036:GLU:OE2	1.88	0.73
1:A:1316:LEU:HD23	1:A:1341:VAL:HG21	1.70	0.73
1:A:1423:ASP:O	1:A:1424:CYS:HB2	1.88	0.73
1:M:12:ARG:HE	2:N:1192:TYR:HE2	1.36	0.73
2:N:35:LEU:HD23	2:N:164:MET:SD	2.28	0.73
4:P:53:LEU:O	4:P:55:GLU:N	2.20	0.73
7:S:13:LEU:HD21	7:S:17:TYR:HB2	1.69	0.73
1:A:134:ARG:O	1:A:138:VAL:HG23	1.88	0.73
1:A:354:ILE:CG2	1:A:488:MET:HG3	2.17	0.73
1:A:1389:ARG:HB2	1:A:1406:GLU:OE1	1.89	0.73
2:B:35:LEU:HD23	2:B:164:MET:SD	2.28	0.73
2:B:882:THR:HG22	2:B:884:ARG:H	1.54	0.73
1:M:1244:VAL:C	1:M:1245:ILE:CG1	2.60	0.73
2:N:251:GLY:O	2:N:259:ARG:HD3	1.87	0.73
1:A:12:ARG:HE	2:B:1192:TYR:HE2	1.36	0.73
1:A:780:PHE:HE1	1:A:786:PRO:CD	2.00	0.73
1:A:825:LEU:HD21	2:B:765:PRO:HB3	1.70	0.73
2:B:356:HIS:O	2:B:357:ILE:HB	1.87	0.73
1:M:320:GLY:HA2	2:N:464:LYS:CB	2.18	0.73
1:M:568:LYS:HD3	8:T:94:TYR:CG	2.24	0.73
2:N:882:THR:O	2:N:883:LEU:HB2	1.87	0.73
2:N:980:PHE:CE2	2:N:1094:ARG:HG3	2.22	0.73
1:A:444:LEU:HD23	1:A:502:LEU:CD2	2.18	0.73
1:A:902:LEU:H	1:A:927:GLN:NE2	1.87	0.73
1:M:319:SER:C	2:N:464:LYS:HA	2.14	0.73
2:N:466:MET:HE3	2:N:467:SER:CA	2.19	0.73
1:A:322:PRO:O	1:A:323:VAL:HB	1.88	0.73
1:A:357:ASP:HB2	1:A:470:ARG:NH1	2.04	0.73
2:B:290:LEU:HD22	2:B:290:LEU:N	2.04	0.73
1:M:445:PHE:CE2	1:M:488:MET:HE3	2.24	0.73
1:M:766:VAL:HG21	1:M:809:LEU:HD11	1.70	0.73
1:M:1264:LYS:O	1:M:1267:GLU:HB3	1.88	0.73
2:N:782:LEU:HD12	2:N:788:ARG:NH1	2.03	0.73
2:N:859:TYR:OH	2:N:941:LEU:HD12	1.89	0.73
2:N:882:THR:HG22	2:N:884:ARG:H	1.53	0.73
3:O:65:ARG:HH21	10:V:5:VAL:HG23	1.52	0.73
1:A:672:ALA:HB3	1:A:677:MET:HG2	1.70	0.73
1:A:1146:LYS:HB2	1:A:1271:LEU:O	1.88	0.73
2:B:1072:MET:HE3	2:B:1085:VAL:CB	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:357:ASP:HB2	1:M:470:ARG:NH1	2.04	0.73
2:N:290:LEU:HD22	2:N:290:LEU:N	2.04	0.73
7:S:91:VAL:HB	7:S:139:LYS:O	1.89	0.73
1:A:504:GLN:HE21	6:F:90:ARG:HH21	1.37	0.73
1:A:671:ILE:HG23	1:A:806:LEU:HD21	1.71	0.73
2:B:859:TYR:OH	2:B:941:LEU:HD12	1.89	0.73
2:B:1202:LEU:HD23	2:B:1206:GLU:HG3	1.70	0.73
3:C:147:LEU:N	3:C:147:LEU:HD23	2.04	0.73
7:G:91:VAL:HB	7:G:139:LYS:O	1.89	0.73
1:M:856:THR:HG21	1:M:858:ARG:HE	1.53	0.73
2:N:810:GLU:HB2	2:N:815:ARG:HH22	1.53	0.73
3:O:112:ASP:HB2	3:O:114:TYR:CE1	2.24	0.73
3:O:147:LEU:HD23	3:O:147:LEU:N	2.04	0.73
3:C:35:THR:HG21	3:C:251:LEU:HD22	1.69	0.72
1:M:226:ASN:HD22	1:M:229:TYR:H	1.37	0.72
1:M:902:LEU:H	1:M:927:GLN:NE2	1.87	0.72
2:N:1069:PHE:HD1	2:N:1069:PHE:H	1.35	0.72
3:O:42:THR:CG2	3:O:43:LEU:H	1.90	0.72
3:O:115:SER:HB3	3:O:142:ILE:CG1	2.19	0.72
1:A:568:LYS:HB3	8:H:94:TYR:CA	2.17	0.72
1:A:568:LYS:HD3	8:H:94:TYR:CG	2.23	0.72
2:B:466:MET:HE3	2:B:467:SER:CA	2.19	0.72
3:C:155:ILE:O	3:C:156:ARG:CG	2.37	0.72
7:G:127:PRO:HG2	7:G:138:THR:CG2	2.19	0.72
1:M:1316:LEU:HD23	1:M:1341:VAL:HG21	1.70	0.72
1:A:1264:LYS:O	1:A:1267:GLU:HB3	1.89	0.72
1:M:40:ILE:HB	1:M:41:MET:CE	2.08	0.72
1:M:536:THR:HG21	1:M:617:VAL:HA	1.70	0.72
7:S:80:LYS:HE2	7:S:80:LYS:N	2.04	0.72
1:A:640:PRO:HG2	1:A:641:LYS:H	1.54	0.72
1:M:444:LEU:HD23	1:M:502:LEU:CD2	2.18	0.72
2:N:552:GLU:HA	2:N:556:MET:HB3	1.71	0.72
7:G:14:HIS:CD2	7:G:16:SER:HB3	2.24	0.72
1:M:640:PRO:HG2	1:M:641:LYS:H	1.55	0.72
1:M:1367:ASN:HD22	1:M:1368:TYR:N	1.87	0.72
1:A:55:ASP:C	1:A:57:LYS:N	2.40	0.72
1:A:445:PHE:CE2	1:A:488:MET:HE3	2.24	0.72
2:B:266:PRO:CG	2:B:352:GLU:HB3	2.20	0.72
2:B:552:GLU:HA	2:B:556:MET:HB3	1.71	0.72
1:M:320:GLY:N	2:N:464:LYS:CA	2.49	0.72
1:M:442:PRO:HD2	1:M:499:ARG:NH2	2.05	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1146:LYS:HB2	1:M:1271:LEU:O	1.88	0.72
1:A:318:LYS:O	1:A:319:SER:HB3	1.88	0.72
1:M:1097:THR:HG21	1:M:1114:LYS:HB2	1.72	0.72
6:R:109:VAL:HG11	6:R:123:LYS:HG2	1.70	0.72
7:S:127:PRO:HG2	7:S:138:THR:CG2	2.20	0.72
1:A:442:PRO:HD2	1:A:499:ARG:NH2	2.05	0.72
1:A:1097:THR:HG21	1:A:1114:LYS:HB2	1.72	0.72
1:A:1367:ASN:HD22	1:A:1368:TYR:N	1.87	0.72
1:A:1448:ILE:CD1	7:G:70:PHE:CZ	2.71	0.72
2:B:782:LEU:HD12	2:B:788:ARG:NH1	2.03	0.72
1:M:1032:ARG:HG2	1:M:1036:GLU:OE2	1.88	0.72
2:N:266:PRO:CG	2:N:352:GLU:HB3	2.20	0.72
3:O:47:LEU:CB	3:O:158:ILE:CG2	2.54	0.72
2:B:509:ASN:HD22	2:B:509:ASN:H	1.38	0.72
6:F:97:ARG:O	6:F:101:ILE:HG13	1.89	0.72
1:M:134:ARG:O	1:M:138:VAL:HG23	1.88	0.72
3:O:47:LEU:CB	3:O:158:ILE:HG23	2.20	0.72
1:A:769:GLN:CG	1:A:817:HIS:HA	2.19	0.72
1:A:1096:VAL:HG13	1:A:1115:THR:HG21	1.72	0.72
2:B:890:TYR:HA	2:B:910:ILE:HG23	1.69	0.72
2:B:1172:ILE:HG22	2:B:1172:ILE:O	1.88	0.72
1:M:1423:ASP:O	1:M:1424:CYS:HB2	1.88	0.72
5:Q:89:ILE:HG23	5:Q:119:ALA:H	1.51	0.72
1:A:91:PHE:H	1:A:298:GLN:HE22	1.36	0.71
2:B:113:SER:OG	2:B:163:ILE:HD11	1.90	0.71
2:B:575:VAL:HG23	2:B:619:ILE:HD12	1.72	0.71
7:G:153:ASP:CG	7:G:154:VAL:H	1.98	0.71
7:G:163:ILE:HG22	7:G:168:LEU:HB3	1.71	0.71
1:M:16:GLU:HG2	1:M:1421:LEU:HD11	1.70	0.71
2:N:324:ASP:O	2:N:326:ILE:N	2.23	0.71
2:N:1072:MET:HE3	2:N:1085:VAL:CB	2.17	0.71
6:R:97:ARG:O	6:R:101:ILE:HG13	1.89	0.71
2:B:631:PHE:HB3	2:B:645:LEU:HD22	1.71	0.71
1:M:671:ILE:HG23	1:M:806:LEU:HD21	1.71	0.71
1:M:780:PHE:HE1	1:M:786:PRO:CD	2.00	0.71
1:M:1389:ARG:HB2	1:M:1406:GLU:CG	2.20	0.71
1:A:1410:GLU:H	1:A:1410:GLU:CD	1.98	0.71
11:K:90:ALA:O	11:K:94:ILE:HG13	1.90	0.71
1:M:91:PHE:H	1:M:298:GLN:HE22	1.36	0.71
1:M:1393:ASN:CG	1:M:1405:PHE:HD2	1.98	0.71
5:Q:123:ILE:CG1	5:Q:124:PRO:N	2.46	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:404:PRO:O	2:B:407:ALA:HB3	1.91	0.71
2:B:882:THR:O	2:B:883:LEU:HB2	1.87	0.71
3:C:175:ALA:HB2	10:J:10:CYS:HB2	1.71	0.71
2:N:113:SER:OG	2:N:163:ILE:HD11	1.90	0.71
2:N:202:VAL:HG23	2:N:476:LEU:HB2	1.71	0.71
1:A:1107:LEU:CD2	1:A:1387:ILE:HG21	2.20	0.71
3:C:99:GLU:CG	3:C:121:VAL:HG21	2.20	0.71
3:C:112:ASP:HB2	3:C:114:TYR:CE1	2.24	0.71
7:G:80:LYS:HE2	7:G:80:LYS:N	2.04	0.71
7:S:153:ASP:CG	7:S:154:VAL:H	1.98	0.71
1:M:357:ASP:HB2	1:M:470:ARG:HH11	1.53	0.71
3:O:99:GLU:CB	3:O:119:ILE:HG23	2.13	0.71
3:O:155:ILE:O	3:O:156:ARG:CG	2.37	0.71
7:S:163:ILE:HG22	7:S:168:LEU:HB3	1.71	0.71
1:A:336:ARG:NH1	2:B:1202:LEU:HD22	2.05	0.71
2:B:288:GLU:O	2:B:291:GLN:HB2	1.91	0.71
10:J:1:MET:N	10:J:55:LEU:N	2.38	0.71
1:M:322:PRO:O	1:M:323:VAL:HB	1.88	0.71
1:M:512:ILE:HA	1:M:522:MET:HE3	1.73	0.71
1:M:606:MET:HE3	1:M:607:LEU:H	1.55	0.71
1:M:1096:VAL:HG13	1:M:1115:THR:HG21	1.72	0.71
2:N:404:PRO:O	2:N:407:ALA:HB3	1.91	0.71
2:B:229:ALA:HB3	2:B:247:ILE:CG2	2.21	0.71
2:B:324:ASP:O	2:B:326:ILE:N	2.23	0.71
2:B:376:ASN:O	2:B:380:LEU:HD13	1.91	0.71
2:B:953:LEU:HD21	2:B:965:LYS:HB2	1.73	0.71
1:M:799:GLY:HA2	1:M:816:PHE:HD1	1.51	0.71
2:N:166:ARG:HG3	2:N:166:ARG:HH11	1.56	0.71
2:N:575:VAL:HG23	2:N:619:ILE:HD12	1.72	0.71
1:A:512:ILE:HA	1:A:522:MET:HE3	1.73	0.71
2:B:354:LEU:HD21	2:B:370:PHE:CD2	2.26	0.71
2:B:957:ASN:ND2	2:B:961:LEU:HD12	2.06	0.71
8:H:41:ASP:O	8:H:42:ILE:HG13	1.91	0.71
1:M:1107:LEU:CD2	1:M:1387:ILE:HG21	2.21	0.71
2:N:1176:LYS:C	2:N:1178:ASN:H	1.98	0.71
1:A:357:ASP:HB2	1:A:470:ARG:HH11	1.53	0.71
1:A:1070:ALA:HA	1:A:1370:HIS:ND1	2.06	0.71
2:B:14:THR:O	2:B:17:CYS:SG	2.49	0.71
2:B:890:TYR:HA	2:B:910:ILE:HG21	1.72	0.71
1:M:1389:ARG:HA	1:M:1405:PHE:CE2	2.26	0.71
2:N:14:THR:O	2:N:17:CYS:SG	2.49	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:99:GLU:HB2	3:O:119:ILE:HG21	1.71	0.71
5:Q:156:SER:C	5:Q:158:GLY:H	1.99	0.71
7:S:14:HIS:CD2	7:S:16:SER:HB3	2.24	0.71
2:B:1221:SER:HB3	4:D:12:ARG:CB	2.20	0.70
3:C:99:GLU:CB	3:C:119:ILE:HG23	2.13	0.70
11:K:65:HIS:CD2	11:K:67:LEU:H	2.09	0.70
1:M:565:ALA:HB2	1:M:577:GLN:OE1	1.91	0.70
1:M:1410:GLU:CD	1:M:1410:GLU:H	1.98	0.70
2:N:957:ASN:ND2	2:N:961:LEU:HD12	2.06	0.70
1:M:336:ARG:NH1	2:N:1202:LEU:HD22	2.05	0.70
1:M:570:LYS:O	1:M:572:LEU:HD12	1.91	0.70
2:N:953:LEU:HD21	2:N:965:LYS:HB2	1.73	0.70
2:N:1007:VAL:CG2	2:N:1008:PRO:HD2	2.19	0.70
5:Q:89:ILE:HG22	5:Q:119:ALA:N	1.99	0.70
9:U:106:CYS:SG	9:U:107:LYS:N	2.64	0.70
11:W:90:ALA:O	11:W:94:ILE:HG13	1.90	0.70
1:A:1217:LYS:O	1:A:1221:VAL:HG23	1.91	0.70
1:M:901:ASP:HA	1:M:927:GLN:NE2	2.06	0.70
3:O:175:ALA:HB2	10:V:10:CYS:HB2	1.71	0.70
5:Q:89:ILE:HG23	5:Q:119:ALA:CA	2.12	0.70
1:A:606:MET:HE3	1:A:607:LEU:H	1.55	0.70
2:B:1176:LYS:C	2:B:1178:ASN:H	1.98	0.70
9:I:34:TYR:HD2	9:I:35:THR:H	1.34	0.70
2:N:1162:VAL:HG12	2:N:1163:CYS:N	2.05	0.70
1:A:565:ALA:HB2	1:A:577:GLN:OE1	1.91	0.70
1:A:901:ASP:HA	1:A:927:GLN:NE2	2.06	0.70
3:C:47:LEU:CB	3:C:158:ILE:HG23	2.20	0.70
1:M:822:ARG:HB2	1:M:822:ARG:NH1	2.06	0.70
2:N:1039:GLY:HA2	10:V:50:LEU:HD22	1.73	0.70
7:S:13:LEU:HD12	7:S:26:LEU:HD21	1.73	0.70
1:A:336:ARG:HH11	2:B:1202:LEU:HD22	1.57	0.70
1:A:417:ARG:HG3	1:A:418:TYR:CE2	2.27	0.70
1:A:1388:THR:CG2	1:A:1390:HIS:H	2.05	0.70
1:M:67:CYS:O	1:M:70:CYS:SG	2.50	0.70
1:M:599:LEU:HA	8:T:121:LEU:HD13	1.72	0.70
5:Q:90:LYS:C	5:Q:92:MET:H	1.99	0.70
8:T:41:ASP:O	8:T:42:ILE:HG13	1.91	0.70
1:A:858:ARG:HD3	1:A:862:GLY:O	1.91	0.70
1:A:1444:PHE:HE2	6:F:89:GLU:HG2	1.56	0.70
2:B:166:ARG:HH11	2:B:166:ARG:HG3	1.56	0.70
2:B:1039:GLY:HA2	10:J:50:LEU:HD22	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:99:GLU:HB2	3:C:119:ILE:HG21	1.71	0.70
1:M:858:ARG:HD3	1:M:862:GLY:O	1.91	0.70
1:M:1244:VAL:HG12	1:M:1245:ILE:H	1.56	0.70
2:N:394:PHE:CE2	2:N:626:VAL:HB	2.26	0.70
2:N:1217:TYR:CZ	4:P:13:ARG:O	2.45	0.70
1:A:173:PRO:HB3	1:A:186:TRP:CE2	2.27	0.70
1:A:386:ILE:HG22	1:A:387:HIS:N	2.07	0.70
1:A:636:ARG:HH11	1:A:636:ARG:HA	1.57	0.70
1:A:822:ARG:HB2	1:A:822:ARG:NH1	2.06	0.70
1:A:1450:GLU:HG3	7:G:22:MET:HG2	1.73	0.70
2:B:1162:VAL:HG12	2:B:1163:CYS:N	2.04	0.70
4:D:160:ILE:HG22	4:D:163:LEU:HG	1.72	0.70
6:F:90:ARG:HG2	6:F:91:ALA:N	2.05	0.70
6:F:100:GLN:NE2	7:G:66:GLY:O	2.25	0.70
1:M:386:ILE:HG22	1:M:387:HIS:N	2.07	0.70
2:N:288:GLU:O	2:N:291:GLN:HB2	1.91	0.70
2:N:387:ASP:CG	9:U:91:ARG:NE	2.50	0.70
2:N:631:PHE:HB3	2:N:645:LEU:HD22	1.71	0.70
4:P:160:ILE:HG22	4:P:163:LEU:HG	1.72	0.70
1:A:67:CYS:O	1:A:70:CYS:SG	2.50	0.70
1:A:1448:ILE:HD11	7:G:68:ALA:CB	2.16	0.70
2:B:916:THR:HB	2:B:935:ARG:HG3	1.74	0.70
4:D:66:ALA:HA	4:D:69:ARG:HD2	1.73	0.70
5:E:156:SER:C	5:E:158:GLY:H	1.99	0.70
7:G:13:LEU:HD12	7:G:26:LEU:HD21	1.73	0.70
1:M:63:ARG:HG2	1:M:74:MET:HE1	1.74	0.70
2:N:77:ILE:HD12	2:N:425:MET:SD	2.32	0.70
2:N:509:ASN:HD22	2:N:509:ASN:H	1.39	0.70
2:N:763:GLN:HG2	2:N:765:PRO:HG2	1.74	0.70
2:N:916:THR:HB	2:N:935:ARG:HG3	1.74	0.70
3:O:34:ARG:HD3	11:W:41:THR:OG1	1.91	0.70
4:P:66:ALA:HA	4:P:69:ARG:HD2	1.73	0.70
1:A:55:ASP:N	1:A:56:PRO:HD3	2.07	0.70
1:A:69:THR:C	1:A:71:GLY:N	2.50	0.70
1:M:173:PRO:HB3	1:M:186:TRP:CE2	2.27	0.70
1:M:1070:ALA:HA	1:M:1370:HIS:ND1	2.06	0.70
10:V:1:MET:N	10:V:55:LEU:N	2.39	0.70
1:A:943:PHE:HD2	1:A:944:LEU:HD23	1.57	0.69
6:F:89:GLU:O	6:F:93:ILE:HG13	1.92	0.69
9:I:106:CYS:SG	9:I:107:LYS:N	2.64	0.69
2:N:376:ASN:O	2:N:380:LEU:HD13	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:944:THR:HG21	2:N:1122:ARG:NH2	2.07	0.69
3:O:99:GLU:CG	3:O:121:VAL:HG21	2.20	0.69
1:A:231:ARG:HG3	1:A:234:TRP:CZ3	2.27	0.69
2:B:847:ASP:C	2:B:849:GLY:H	2.00	0.69
2:B:944:THR:HG21	2:B:1122:ARG:NH2	2.07	0.69
4:D:38:GLN:HB2	7:G:5:LYS:HZ1	1.57	0.69
6:F:103:MET:HE3	7:G:65:SER:HB2	1.71	0.69
1:M:55:ASP:N	1:M:56:PRO:HD3	2.07	0.69
1:M:1217:LYS:O	1:M:1221:VAL:HG23	1.91	0.69
1:A:1448:ILE:HD13	7:G:70:PHE:HZ	1.55	0.69
1:M:346:VAL:N	2:N:1128:LEU:O	2.25	0.69
2:N:1039:GLY:HA2	10:V:50:LEU:CD2	2.22	0.69
2:N:1149:GLU:C	2:N:1153:GLU:HB2	2.16	0.69
11:W:65:HIS:CD2	11:W:67:LEU:H	2.10	0.69
1:A:962:LEU:HA	1:A:965:ILE:HG22	1.74	0.69
1:A:1351:LEU:O	1:A:1355:ILE:HG22	1.92	0.69
2:B:992:VAL:HG22	2:B:993:THR:H	1.58	0.69
4:D:35:ALA:O	4:D:48:LEU:HD23	1.93	0.69
1:M:417:ARG:HG3	1:M:418:TYR:CE2	2.27	0.69
1:A:570:LYS:O	1:A:572:LEU:HD12	1.91	0.69
1:A:599:LEU:HA	8:H:121:LEU:HD13	1.72	0.69
2:B:1114:LEU:O	2:B:1198:TYR:CE2	2.45	0.69
1:M:1388:THR:CG2	1:M:1390:HIS:H	2.05	0.69
2:N:394:PHE:CE2	2:N:514:LEU:HD13	2.26	0.69
2:N:839:MET:HE1	2:N:980:PHE:HB2	1.75	0.69
4:P:48:LEU:CD1	4:P:49:ILE:H	2.06	0.69
2:B:77:ILE:HD12	2:B:425:MET:SD	2.32	0.69
2:B:839:MET:HE1	2:B:980:PHE:HB2	1.75	0.69
6:F:103:MET:CE	7:G:65:SER:HA	2.22	0.69
11:K:87:LEU:O	11:K:91:CYS:HB2	1.93	0.69
1:M:284:GLY:O	1:M:286:PRO:HD3	1.92	0.69
4:P:95:GLY:O	4:P:96:ALA:HB3	1.92	0.69
6:R:90:ARG:HG2	6:R:91:ALA:N	2.05	0.69
2:B:110:THR:HG21	2:B:451:LYS:HE2	1.73	0.69
4:D:41:HIS:HB2	7:G:73:LYS:CE	2.23	0.69
1:M:283:ASP:O	1:M:285:SER:N	2.25	0.69
1:M:772:GLU:HA	1:M:1086:PHE:CZ	2.28	0.69
1:M:1326:ASP:O	1:M:1328:SER:N	2.25	0.69
2:N:202:VAL:HG21	2:N:476:LEU:HD13	1.75	0.69
7:S:14:HIS:ND1	7:S:15:PRO:HD2	2.08	0.69
9:U:105:ASN:O	9:U:106:CYS:HB3	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:102:VAL:O	1:A:106:ILE:HG22	1.93	0.69
1:A:413:ARG:HH22	2:B:1108:ARG:NH2	1.90	0.69
1:A:415:ASP:OD1	1:A:417:ARG:HG2	1.93	0.69
1:A:859:ASN:HD22	1:A:861:LEU:H	1.40	0.69
2:B:1069:PHE:HA	2:B:1085:VAL:O	1.93	0.69
2:B:1116:ARG:NE	2:B:1198:TYR:CE1	2.61	0.69
3:C:34:ARG:HD3	11:K:41:THR:OG1	1.91	0.69
4:D:48:LEU:CD1	4:D:49:ILE:H	2.06	0.69
7:G:14:HIS:ND1	7:G:15:PRO:HD2	2.08	0.69
1:M:102:VAL:O	1:M:106:ILE:HG22	1.93	0.69
1:M:413:ARG:HH22	2:N:1108:ARG:NH2	1.90	0.69
1:M:769:GLN:CD	1:M:817:HIS:HA	2.17	0.69
2:N:354:LEU:HD21	2:N:370:PHE:CD2	2.26	0.69
2:N:875:GLU:HG3	2:N:877:PRO:HD3	1.75	0.69
2:N:890:TYR:O	2:N:893:LEU:HB2	1.93	0.69
8:T:88:LEU:O	8:T:90:ASP:N	2.22	0.69
1:A:63:ARG:HG2	1:A:74:MET:HE1	1.74	0.69
1:A:284:GLY:O	1:A:286:PRO:HD3	1.92	0.69
1:A:1244:VAL:HG12	1:A:1245:ILE:H	1.56	0.69
1:A:1371:MET:HE3	1:A:1371:MET:H	1.58	0.69
5:E:18:VAL:HG11	5:E:79:VAL:HG11	1.73	0.69
5:E:196:LYS:HE2	5:E:198:ILE:HD11	1.75	0.69
1:M:553:TRP:NE1	11:W:62:LYS:HB2	2.03	0.69
1:M:606:MET:HE1	1:M:613:VAL:HG13	1.75	0.69
1:M:1371:MET:HE3	1:M:1371:MET:H	1.58	0.69
1:M:1449:ASP:HB2	6:R:133:VAL:HG21	1.74	0.69
1:M:231:ARG:HG3	1:M:234:TRP:CZ3	2.27	0.69
1:M:415:ASP:OD1	1:M:417:ARG:HG2	1.93	0.69
1:M:943:PHE:HD2	1:M:944:LEU:HD23	1.57	0.69
1:M:1215:ALA:CB	1:M:1230:TRP:CE3	2.76	0.69
2:N:110:THR:HG21	2:N:451:LYS:HE2	1.74	0.69
2:N:1114:LEU:O	2:N:1198:TYR:OH	2.09	0.69
4:P:35:ALA:O	4:P:48:LEU:HD23	1.93	0.69
1:A:342:MET:HE2	1:A:844:LYS:HZ1	1.58	0.68
1:A:1084:ASN:HB3	1:A:1086:PHE:HD1	1.58	0.68
2:B:609:ILE:N	2:B:609:ILE:HD12	2.08	0.68
5:E:90:LYS:C	5:E:92:MET:H	1.99	0.68
1:M:342:MET:C	2:N:1132:GLU:HG3	2.18	0.68
1:M:636:ARG:HA	1:M:636:ARG:HH11	1.57	0.68
2:N:695:GLU:O	2:N:698:ILE:HG12	1.93	0.68
1:A:553:TRP:NE1	11:K:62:LYS:HB2	2.04	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1215:ALA:CB	1:A:1230:TRP:CE3	2.76	0.68
1:A:1450:GLU:OE2	7:G:23:ASN:CA	2.41	0.68
2:B:875:GLU:HG3	2:B:877:PRO:HD3	1.75	0.68
12:L:30:LYS:HB2	12:L:41:SER:HA	1.75	0.68
1:M:352:THR:HG22	2:N:1103:ILE:HA	1.75	0.68
2:N:1217:TYR:HE2	4:P:14:ARG:CA	1.99	0.68
1:A:441:ASP:O	1:A:461:VAL:HG23	1.94	0.68
1:A:598:LEU:HD12	1:A:598:LEU:N	2.08	0.68
2:N:181:TYR:CE2	10:V:61:ARG:HB3	2.28	0.68
2:N:847:ASP:C	2:N:849:GLY:H	2.00	0.68
7:S:1:MET:HE2	7:S:3:PHE:CE1	2.24	0.68
12:X:30:LYS:HB2	12:X:41:SER:HA	1.75	0.68
1:A:283:ASP:O	1:A:285:SER:N	2.26	0.68
1:A:1326:ASP:O	1:A:1328:SER:N	2.24	0.68
1:A:1448:ILE:CD1	7:G:68:ALA:CB	2.70	0.68
2:B:763:GLN:HG2	2:B:765:PRO:HG2	1.74	0.68
2:B:890:TYR:O	2:B:893:LEU:HB2	1.93	0.68
1:M:598:LEU:HD12	1:M:598:LEU:N	2.08	0.68
2:N:423:ARG:HB3	2:N:427:ARG:NH2	2.08	0.68
2:N:797:TYR:HB3	2:N:798:TYR:CD2	2.29	0.68
2:N:1107:ALA:O	2:N:1108:ARG:HG2	1.94	0.68
6:R:89:GLU:O	6:R:93:ILE:HG13	1.92	0.68
6:R:103:MET:HE2	7:S:64:GLY:O	1.93	0.68
1:A:40:ILE:HB	1:A:41:MET:CE	2.08	0.68
1:A:843:VAL:HG11	2:B:1136:ASP:OD2	1.93	0.68
9:I:105:ASN:O	9:I:106:CYS:HB3	1.92	0.68
1:M:54:ASN:HB3	1:M:248:ARG:HH22	1.59	0.68
1:M:345:ARG:CA	2:N:1129:ARG:HG3	2.23	0.68
2:N:184:LYS:HD3	2:N:787:VAL:HG11	1.76	0.68
3:O:175:ALA:HB1	10:V:42:ARG:HH12	1.59	0.68
4:P:166:LYS:O	4:P:167:LYS:HB2	1.93	0.68
2:B:202:VAL:HG21	2:B:476:LEU:HD13	1.75	0.68
2:B:423:ARG:HB3	2:B:427:ARG:NH2	2.08	0.68
2:B:695:GLU:O	2:B:698:ILE:HG12	1.93	0.68
2:B:1039:GLY:HA2	10:J:50:LEU:CD2	2.23	0.68
6:F:99:LEU:HD11	7:G:65:SER:C	2.18	0.68
1:M:63:ARG:HA	1:M:74:MET:CE	2.24	0.68
1:M:346:VAL:HG13	2:N:1130:PHE:H	1.55	0.68
1:M:859:ASN:HD22	1:M:861:LEU:H	1.40	0.68
1:M:962:LEU:HA	1:M:965:ILE:HG22	1.75	0.68
2:N:609:ILE:HD12	2:N:609:ILE:N	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:51:THR:HG22	10:V:51:THR:O	1.94	0.68
11:W:87:LEU:O	11:W:91:CYS:HB2	1.93	0.68
1:A:742:ASN:HD22	1:A:743:ASN:N	1.92	0.68
1:A:766:VAL:CG2	1:A:809:LEU:HD11	2.13	0.68
1:A:1423:ASP:HB3	1:A:1425:ARG:HG3	1.76	0.68
7:G:1:MET:HE2	7:G:3:PHE:CE1	2.25	0.68
1:M:801:VAL:HG11	1:M:809:LEU:HD11	1.75	0.68
1:M:838:ILE:HG12	1:M:841:ARG:HH11	1.59	0.68
2:N:992:VAL:HG22	2:N:993:THR:H	1.58	0.68
4:P:41:HIS:HB2	7:S:73:LYS:CE	2.23	0.68
10:V:42:ARG:H	10:V:42:ARG:CD	2.07	0.68
1:A:63:ARG:HA	1:A:74:MET:CE	2.24	0.68
1:A:326:ILE:HG21	2:B:1210:MET:HG3	1.76	0.68
1:A:352:THR:HG22	2:B:1103:ILE:HA	1.75	0.68
1:A:838:ILE:HG12	1:A:841:ARG:NH1	2.08	0.68
2:B:797:TYR:HB3	2:B:798:TYR:CD2	2.29	0.68
10:J:2:ILE:CG2	10:J:3:ILE:N	2.57	0.68
1:M:402:GLY:C	1:M:436:HIS:HD2	2.02	0.68
1:M:769:GLN:HG3	1:M:817:HIS:N	2.09	0.68
1:M:984:THR:O	1:M:987:GLU:HB2	1.94	0.68
5:Q:18:VAL:HG11	5:Q:79:VAL:HG11	1.73	0.68
8:T:55:LEU:HD22	8:T:143:ILE:CG2	2.24	0.68
1:A:598:LEU:O	1:A:599:LEU:HB2	1.93	0.68
1:A:769:GLN:HB3	1:A:820:ALA:HB2	1.75	0.68
1:A:911:PRO:CB	1:A:917:ALA:HB1	2.22	0.68
10:J:51:THR:HG22	10:J:51:THR:O	1.94	0.68
1:M:336:ARG:HH11	2:N:1202:LEU:HD22	1.57	0.68
1:A:470:ARG:NH2	2:B:991:GLY:O	2.27	0.68
1:A:1352:TYR:O	1:A:1355:ILE:CG2	2.42	0.68
2:B:1007:VAL:CG2	2:B:1008:PRO:HD2	2.20	0.68
2:B:1159:ARG:HD3	2:B:1193:GLN:HG3	1.75	0.68
3:C:175:ALA:HB1	10:J:42:ARG:HH12	1.59	0.68
4:D:95:GLY:O	4:D:96:ALA:HB3	1.92	0.68
10:J:56:ILE:HA	10:J:59:PHE:HD2	1.59	0.68
1:M:441:ASP:O	1:M:461:VAL:HG23	1.94	0.68
1:M:838:ILE:HG12	1:M:841:ARG:NH1	2.08	0.68
2:N:393:HIS:HA	2:N:510:THR:HG21	1.76	0.68
2:N:1069:PHE:HA	2:N:1085:VAL:O	1.93	0.68
1:A:1423:ASP:OD1	1:A:1425:ARG:HD2	1.94	0.67
2:B:112:SER:HB2	2:B:161:VAL:C	2.19	0.67
2:B:556:MET:HE1	2:B:573:ILE:HG21	1.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:114:LEU:HD13	1:M:172:GLN:HE22	1.60	0.67
1:M:527:ASP:HB2	2:N:835:GLN:OE1	1.94	0.67
2:N:572:ARG:HB2	2:N:579:TRP:HE1	1.59	0.67
2:N:912:ILE:O	2:N:938:SER:HB3	1.94	0.67
4:P:179:ASN:HA	4:P:182:GLU:HB2	1.77	0.67
2:B:225:ILE:HG21	2:B:228:VAL:HG23	1.76	0.67
2:B:1115:THR:O	2:B:1116:ARG:HB2	1.94	0.67
12:L:32:THR:O	12:L:58:ILE:HA	1.95	0.67
1:M:343:GLY:O	2:N:1129:ARG:CZ	2.43	0.67
1:M:357:ASP:OD2	11:W:65:HIS:HE1	1.78	0.67
1:M:476:THR:HG23	1:M:477:SER:N	2.09	0.67
1:M:848:ASP:CA	1:M:1427:VAL:CG2	2.72	0.67
1:A:446:ASN:HB2	1:A:456:MET:HG2	1.77	0.67
1:A:606:MET:HE1	1:A:613:VAL:HG13	1.75	0.67
1:A:1376:ASP:HA	1:A:1379:THR:HG22	1.77	0.67
11:K:43:ALA:CB	11:K:61:TYR:CD1	2.47	0.67
1:M:1441:THR:CB	2:N:1142:GLY:O	2.42	0.67
2:N:112:SER:HB2	2:N:161:VAL:C	2.19	0.67
1:A:984:THR:O	1:A:987:GLU:HB2	1.94	0.67
2:B:20:VAL:O	2:B:23:ALA:HB3	1.95	0.67
2:B:737:THR:HG21	9:I:66:PRO:HA	1.77	0.67
2:N:225:ILE:HG21	2:N:228:VAL:HG23	1.76	0.67
2:N:1159:ARG:HD3	2:N:1193:GLN:HG3	1.75	0.67
5:Q:196:LYS:HE2	5:Q:198:ILE:HD11	1.75	0.67
6:R:118:LEU:O	6:R:122:MET:HG3	1.95	0.67
10:V:2:ILE:CG2	10:V:3:ILE:N	2.57	0.67
1:A:476:THR:HG23	1:A:477:SER:N	2.09	0.67
1:A:1447:MET:O	6:F:133:VAL:HG23	1.94	0.67
2:B:181:TYR:CE2	10:J:61:ARG:HB3	2.28	0.67
2:B:737:THR:CG2	9:I:66:PRO:HA	2.24	0.67
2:B:912:ILE:O	2:B:938:SER:HB3	1.94	0.67
2:B:992:VAL:HG22	2:B:993:THR:N	2.09	0.67
2:B:1095:LEU:H	2:B:1095:LEU:CD1	2.07	0.67
8:H:55:LEU:HD22	8:H:143:ILE:CG2	2.24	0.67
1:M:673:ASP:HB2	1:M:737:ASN:OD1	1.95	0.67
1:M:1423:ASP:OD1	1:M:1425:ARG:HD2	1.94	0.67
2:N:737:THR:CG2	9:U:66:PRO:HA	2.24	0.67
2:B:1107:ALA:O	2:B:1108:ARG:HG2	1.94	0.67
4:D:166:LYS:O	4:D:167:LYS:HB2	1.93	0.67
6:F:118:LEU:O	6:F:122:MET:HG3	1.95	0.67
10:J:2:ILE:HG23	10:J:3:ILE:N	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:742:ASN:HD22	1:M:743:ASN:N	1.92	0.67
4:P:25:ALA:C	4:P:27:LEU:H	2.02	0.67
12:X:32:THR:O	12:X:58:ILE:HA	1.94	0.67
1:A:822:ARG:O	1:A:826:ILE:HG13	1.95	0.67
1:A:838:ILE:HG12	1:A:841:ARG:HH11	1.59	0.67
2:B:95:THR:OG1	2:B:96:THR:N	2.27	0.67
3:C:166:GLU:HG3	11:K:10:PHE:HZ	1.59	0.67
1:M:400:HIS:O	1:M:402:GLY:N	2.27	0.67
1:M:470:ARG:NH2	2:N:991:GLY:O	2.27	0.67
2:N:477:ASN:O	2:N:478:ARG:HD2	1.95	0.67
2:N:575:VAL:HA	2:N:619:ILE:HB	1.76	0.67
1:A:29:ALA:HB1	2:B:1184:SER:CB	2.24	0.67
1:A:384:TYR:HB3	6:F:115:THR:HG22	1.76	0.67
1:A:527:ASP:HB2	2:B:835:GLN:OE1	1.94	0.67
1:A:1448:ILE:HG13	7:G:68:ALA:CB	2.25	0.67
2:B:681:LEU:O	2:B:687:ILE:HG22	1.95	0.67
4:D:25:ALA:C	4:D:27:LEU:H	2.02	0.67
5:E:89:ILE:HG23	5:E:119:ALA:H	1.50	0.67
8:H:88:LEU:HB3	8:H:90:ASP:OD1	1.94	0.67
1:M:29:ALA:HB1	2:N:1184:SER:CB	2.24	0.67
1:M:55:ASP:C	1:M:57:LYS:N	2.40	0.67
1:M:406:VAL:HG22	1:M:433:VAL:HG22	1.76	0.67
1:M:598:LEU:O	1:M:599:LEU:HB2	1.93	0.67
1:M:1423:ASP:HB3	1:M:1425:ARG:HG3	1.76	0.67
12:X:42:LEU:HD22	12:X:46:ASP:HB3	1.77	0.67
1:A:114:LEU:HD13	1:A:172:GLN:HE22	1.60	0.67
10:J:42:ARG:H	10:J:42:ARG:CD	2.07	0.67
1:M:263:LEU:C	1:M:265:HIS:H	2.03	0.67
1:M:446:ASN:HB2	1:M:456:MET:HG2	1.77	0.67
1:M:1412:LEU:HD13	2:N:1207:LEU:HD11	1.77	0.67
2:N:387:ASP:OD2	9:U:91:ARG:CZ	2.43	0.67
2:N:798:TYR:HD1	10:V:4:PRO:HG3	1.60	0.67
1:A:357:ASP:OD2	11:K:65:HIS:HE1	1.77	0.67
1:A:368:PRO:HG2	1:A:371:ILE:HG13	1.75	0.67
1:A:787:HIS:CD2	2:B:700:ILE:HB	2.30	0.67
1:M:368:PRO:HG2	1:M:371:ILE:HG13	1.75	0.67
1:M:1084:ASN:HB3	1:M:1086:PHE:HD1	1.58	0.67
4:P:57:ARG:HB2	4:P:109:LEU:HD22	1.77	0.67
1:M:345:ARG:CA	2:N:1129:ARG:CG	2.73	0.66
1:M:1107:LEU:HB3	1:M:1387:ILE:CG2	2.25	0.66
2:N:395:GLY:HA3	2:N:693:GLU:OE1	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:630:LEU:HD22	2:N:741:CYS:O	1.95	0.66
2:N:1095:LEU:H	2:N:1095:LEU:CD1	2.08	0.66
3:O:166:GLU:HG3	11:W:10:PHE:HZ	1.59	0.66
2:B:575:VAL:HA	2:B:619:ILE:HB	1.77	0.66
2:B:798:TYR:HD1	10:J:4:PRO:HG3	1.60	0.66
4:D:179:ASN:HA	4:D:182:GLU:HB2	1.77	0.66
1:M:75:ALA:HA	2:N:1116:ARG:NH1	2.10	0.66
1:M:1376:ASP:HA	1:M:1379:THR:HG22	1.77	0.66
2:N:394:PHE:HD2	2:N:514:LEU:CD1	2.06	0.66
3:O:115:SER:CB	3:O:142:ILE:CG1	2.73	0.66
8:T:88:LEU:HB3	8:T:90:ASP:OD1	1.94	0.66
8:T:101:TYR:OH	8:T:121:LEU:HD22	1.95	0.66
9:U:40:ASP:CG	9:U:41:PRO:HD2	2.20	0.66
1:A:406:VAL:HG22	1:A:433:VAL:HG22	1.76	0.66
1:A:673:ASP:HB2	1:A:737:ASN:OD1	1.95	0.66
1:A:1136:ILE:O	1:A:1140:ILE:HG13	1.96	0.66
1:A:1448:ILE:HG13	7:G:68:ALA:HB2	1.75	0.66
6:F:99:LEU:HD21	7:G:64:GLY:O	1.96	0.66
1:M:319:SER:H	2:N:464:LYS:HG2	1.60	0.66
1:M:342:MET:HE2	1:M:844:LYS:HZ1	1.26	0.66
1:M:558:ASP:OD2	1:M:560:VAL:HB	1.95	0.66
1:M:1163:THR:HG22	1:M:1164:VAL:N	2.10	0.66
10:V:56:ILE:HA	10:V:59:PHE:HD2	1.59	0.66
1:A:263:LEU:C	1:A:265:HIS:H	2.03	0.66
1:A:856:THR:HG21	1:A:858:ARG:NE	2.10	0.66
1:A:1163:THR:HG22	1:A:1164:VAL:N	2.10	0.66
4:D:90:ALA:O	4:D:92:VAL:N	2.27	0.66
6:F:99:LEU:C	6:F:99:LEU:HD12	2.21	0.66
9:I:40:ASP:CG	9:I:41:PRO:HD2	2.20	0.66
10:J:9:SER:CB	10:J:44:CYS:HB2	2.26	0.66
1:M:342:MET:O	2:N:1132:GLU:HG2	1.94	0.66
1:M:1132:LYS:O	1:M:1136:ILE:HG13	1.96	0.66
8:T:15:VAL:HG22	8:T:26:ILE:HD13	1.78	0.66
1:A:400:HIS:O	1:A:402:GLY:N	2.27	0.66
2:B:830:TYR:CE2	2:B:1000:PRO:HD3	2.31	0.66
9:I:56:ALA:HB3	9:I:89:GLN:HG3	1.76	0.66
1:M:41:MET:CB	1:M:49:ARG:HA	2.22	0.66
1:M:344:LYS:C	2:N:1129:ARG:CG	2.68	0.66
1:M:1154:ILE:HG23	1:M:1195:LEU:HD13	1.77	0.66
1:M:1431:VAL:HG21	2:N:1135:ARG:HH11	1.60	0.66
3:O:115:SER:OG	3:O:142:ILE:CG1	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:2:ILE:HG23	10:V:3:ILE:N	2.10	0.66
1:A:54:ASN:HB3	1:A:248:ARG:HH22	1.58	0.66
1:A:402:GLY:C	1:A:436:HIS:HD2	2.02	0.66
1:A:1200:ASP:O	1:A:1204:MET:HG2	1.96	0.66
2:B:477:ASN:O	2:B:478:ARG:HD2	1.95	0.66
2:B:572:ARG:HB2	2:B:579:TRP:HE1	1.59	0.66
2:B:850:LEU:HD12	2:B:851:PHE:N	2.11	0.66
1:M:326:ILE:HG21	2:N:1210:MET:HG3	1.76	0.66
1:A:558:ASP:OD2	1:A:560:VAL:HB	1.95	0.66
4:D:139:PRO:HA	4:D:142:ILE:CG2	2.25	0.66
2:N:160:LYS:HB2	2:N:447:THR:HG23	1.78	0.66
2:N:737:THR:HG21	9:U:66:PRO:HA	1.77	0.66
8:H:101:TYR:OH	8:H:121:LEU:HD22	1.95	0.66
1:M:42:ASP:HA	1:M:46:GLN:O	1.96	0.66
1:M:1118:LEU:HB2	1:M:1332:SER:OG	1.96	0.66
1:M:1168:ASP:OD2	1:M:1241:ARG:HD2	1.96	0.66
8:T:100:VAL:HA	8:T:115:VAL:HA	1.78	0.66
1:A:983:LEU:CD2	1:A:1041:ARG:HA	2.26	0.66
1:A:1118:LEU:HB2	1:A:1332:SER:OG	1.96	0.66
1:A:1328:SER:O	5:E:147:GLU:HB2	1.96	0.66
1:A:1450:GLU:HG2	7:G:22:MET:SD	2.35	0.66
1:M:787:HIS:CD2	2:N:700:ILE:HB	2.30	0.66
2:N:20:VAL:O	2:N:23:ALA:HB3	1.95	0.66
2:N:850:LEU:HD12	2:N:851:PHE:N	2.11	0.66
3:O:141:GLY:C	3:O:142:ILE:CG1	2.66	0.66
4:P:48:LEU:HD13	4:P:49:ILE:H	1.61	0.66
1:A:1132:LYS:O	1:A:1136:ILE:HG13	1.96	0.66
2:B:884:ARG:HB2	2:B:935:ARG:HA	1.77	0.66
4:D:48:LEU:HD13	4:D:49:ILE:H	1.61	0.66
1:M:181:LYS:NZ	1:M:295:GLN:HB3	2.10	0.66
1:M:1200:ASP:O	1:M:1204:MET:HG2	1.96	0.66
1:M:1215:ALA:HB1	1:M:1230:TRP:CE3	2.31	0.66
2:N:1166:CYS:HA	4:P:15:ALA:HA	1.76	0.66
3:O:62:ILE:HA	3:O:65:ARG:HG3	1.78	0.66
4:P:139:PRO:HA	4:P:142:ILE:CG2	2.25	0.66
6:R:99:LEU:C	6:R:99:LEU:HD12	2.21	0.66
9:U:56:ALA:HB3	9:U:89:GLN:HG3	1.76	0.66
1:A:246:GLN:O	2:B:1114:LEU:HD12	1.95	0.65
1:A:1107:LEU:HB3	1:A:1387:ILE:CG2	2.26	0.65
1:A:1154:ILE:HG23	1:A:1195:LEU:HD13	1.77	0.65
2:B:983:ARG:HD2	2:B:1091:TYR:HD2	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:13:MET:HE3	9:I:14:LEU:H	1.61	0.65
12:L:42:LEU:HD22	12:L:46:ASP:HB3	1.77	0.65
1:M:108:MET:C	1:M:110:CYS:H	2.03	0.65
1:M:246:GLN:O	2:N:1114:LEU:HD11	1.90	0.65
1:M:848:ASP:HA	1:M:1427:VAL:CG2	2.26	0.65
2:N:830:TYR:CE2	2:N:1000:PRO:HD3	2.31	0.65
5:Q:77:LEU:HD21	5:Q:79:VAL:HG23	1.77	0.65
8:T:80:PRO:CB	8:T:81:PRO:HD2	2.27	0.65
3:C:21:LEU:HD22	3:C:230:MET:HE1	1.78	0.65
3:C:253:GLU:O	3:C:256:ALA:HB3	1.97	0.65
2:N:884:ARG:HB2	2:N:935:ARG:HA	1.78	0.65
10:V:9:SER:CB	10:V:44:CYS:HB2	2.26	0.65
2:B:630:LEU:HD22	2:B:741:CYS:O	1.95	0.65
2:B:981:ALA:HB3	2:B:1095:LEU:HD11	1.78	0.65
4:D:57:ARG:HB2	4:D:109:LEU:HD22	1.77	0.65
1:M:24:PRO:O	1:M:27:ILE:CG2	2.45	0.65
1:M:983:LEU:CD2	1:M:1041:ARG:HA	2.26	0.65
2:N:555:GLY:HA3	2:N:583:HIS:CE1	2.31	0.65
2:N:824:ILE:HG22	2:N:1087:PHE:HE2	1.62	0.65
1:A:505:LEU:HD11	6:F:91:ALA:CB	2.26	0.65
1:A:1215:ALA:HB1	1:A:1230:TRP:CE3	2.31	0.65
1:A:1322:VAL:O	1:A:1325:VAL:HG22	1.96	0.65
2:B:184:LYS:HD3	2:B:787:VAL:HG11	1.76	0.65
1:M:856:THR:HG21	1:M:858:ARG:NE	2.10	0.65
1:M:1326:ASP:C	1:M:1328:SER:H	2.04	0.65
2:N:1115:THR:O	2:N:1116:ARG:HB2	1.93	0.65
1:A:766:VAL:HG21	1:A:809:LEU:CD1	2.14	0.65
2:B:1138:MET:HE2	2:B:1146:PHE:CD2	2.31	0.65
2:N:596:LEU:HD12	2:N:602:ILE:HG23	1.78	0.65
2:N:983:ARG:HD2	2:N:1091:TYR:HD2	1.60	0.65
4:P:41:HIS:HB2	7:S:73:LYS:HE3	1.79	0.65
1:A:903:MET:CG	1:A:927:GLN:HG3	2.26	0.65
1:A:1412:LEU:HD13	2:B:1207:LEU:HD11	1.77	0.65
2:B:286:ASP:O	2:B:288:GLU:N	2.29	0.65
11:K:40:HIS:HD1	11:K:61:TYR:HH	1.44	0.65
1:M:870:GLY:O	5:Q:203:THR:HG21	1.97	0.65
2:N:792:MET:HE2	2:N:857:ARG:HH21	1.60	0.65
1:A:795:PRO:HG2	1:A:796:GLU:OE2	1.97	0.65
1:A:1063:GLY:CA	1:A:1440:GLY:HA2	2.26	0.65
1:A:1326:ASP:C	1:A:1328:SER:H	2.05	0.65
1:A:1453:LEU:HD11	7:G:18:PHE:C	2.15	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1095:LEU:HD12	2:B:1095:LEU:N	2.11	0.65
8:H:80:PRO:CB	8:H:81:PRO:HD2	2.26	0.65
1:M:822:ARG:O	1:M:826:ILE:HG13	1.95	0.65
1:M:1352:TYR:O	1:M:1355:ILE:CG2	2.45	0.65
1:M:1447:MET:CE	6:R:135:ARG:CB	2.65	0.65
2:N:266:PRO:HG2	2:N:352:GLU:HB3	1.79	0.65
2:B:160:LYS:HB2	2:B:447:THR:HG23	1.78	0.65
6:F:100:GLN:HE21	7:G:66:GLY:HA2	1.59	0.65
1:M:864:ILE:HG22	5:Q:173:GLN:O	1.97	0.65
2:N:286:ASP:O	2:N:288:GLU:N	2.29	0.65
2:N:387:ASP:OD1	9:U:91:ARG:CD	2.45	0.65
2:N:981:ALA:HB3	2:N:1095:LEU:HD11	1.78	0.65
2:N:1138:MET:HE2	2:N:1146:PHE:CD2	2.31	0.65
1:A:42:ASP:HA	1:A:46:GLN:O	1.96	0.65
1:A:676:THR:OG1	1:A:737:ASN:ND2	2.30	0.65
1:A:871:GLU:HG2	5:E:207:TYR:CG	2.32	0.65
1:A:1154:ILE:CG1	9:I:44:TYR:HB3	2.27	0.65
2:B:551:LEU:O	2:B:553:GLU:N	2.30	0.65
4:D:150:CYS:HB3	4:D:175:LEU:HD22	1.78	0.65
5:E:123:ILE:CG1	5:E:124:PRO:N	2.54	0.65
1:M:1328:SER:O	5:Q:147:GLU:HB2	1.96	0.65
2:N:983:ARG:HH11	2:N:1091:TYR:CB	2.10	0.65
1:A:181:LYS:NZ	1:A:295:GLN:HB3	2.10	0.65
1:A:1168:ASP:OD2	1:A:1241:ARG:HD2	1.96	0.65
2:B:47:GLN:OE1	2:B:82:ILE:HG22	1.96	0.65
2:B:634:GLU:C	2:B:636:ASP:H	2.05	0.65
2:B:1157:ALA:O	2:B:1158:PHE:HB2	1.97	0.65
4:D:54:SER:H	4:D:109:LEU:CD2	2.09	0.65
8:H:15:VAL:HG22	8:H:26:ILE:HD13	1.78	0.65
8:H:100:VAL:HA	8:H:115:VAL:HA	1.78	0.65
10:J:7:CYS:SG	10:J:48:MET:HE3	2.37	0.65
1:M:535:MET:HA	1:M:540:THR:HG21	1.79	0.65
1:M:795:PRO:HG2	1:M:796:GLU:OE2	1.97	0.65
1:M:871:GLU:HG2	5:Q:207:TYR:CG	2.32	0.65
1:M:903:MET:CG	1:M:927:GLN:HG3	2.26	0.65
1:M:1027:ARG:O	1:M:1028:LEU:HD23	1.97	0.65
1:M:1239:ILE:HG22	1:M:1240:ILE:N	2.12	0.65
2:N:394:PHE:HD2	2:N:514:LEU:HD12	1.57	0.65
3:O:253:GLU:O	3:O:256:ALA:HB3	1.97	0.65
1:A:24:PRO:O	1:A:27:ILE:CG2	2.45	0.64
1:A:115:LEU:HD12	1:A:142:CYS:SG	2.36	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:535:MET:HA	1:A:540:THR:HG21	1.79	0.64
2:B:225:ILE:HG21	2:B:228:VAL:CG2	2.26	0.64
2:B:596:LEU:HD12	2:B:602:ILE:HG23	1.78	0.64
2:B:1151:LEU:HD13	2:B:1151:LEU:N	2.12	0.64
10:J:9:SER:HB2	10:J:44:CYS:HB2	1.79	0.64
1:M:467:SER:HB2	2:N:1099:VAL:HG11	1.78	0.64
1:M:676:THR:OG1	1:M:737:ASN:ND2	2.30	0.64
1:M:845:ALA:O	1:M:846:LEU:HD23	1.98	0.64
1:M:1136:ILE:O	1:M:1140:ILE:HG13	1.96	0.64
1:M:1453:LEU:HD21	7:S:18:PHE:CD2	2.32	0.64
2:N:551:LEU:O	2:N:553:GLU:N	2.30	0.64
2:N:890:TYR:HA	2:N:910:ILE:HG21	1.74	0.64
12:X:63:THR:CG2	12:X:65:ARG:HG3	2.27	0.64
1:A:568:LYS:CB	1:A:569:PRO:CD	2.74	0.64
1:A:1027:ARG:O	1:A:1028:LEU:HD23	1.97	0.64
1:A:1444:PHE:HA	6:F:137:TYR:HD1	1.62	0.64
2:B:873:GLU:O	2:B:914:LYS:HA	1.96	0.64
12:L:63:THR:CG2	12:L:65:ARG:HG3	2.27	0.64
1:A:845:ALA:O	1:A:846:LEU:HD23	1.97	0.64
2:B:22:SER:HA	2:B:811:TYR:HE2	1.63	0.64
2:B:290:LEU:HD22	2:B:290:LEU:H	1.62	0.64
2:B:792:MET:HE2	2:B:857:ARG:HH21	1.60	0.64
2:B:1116:ARG:NE	2:B:1198:TYR:HE1	1.95	0.64
8:H:94:TYR:HE2	8:H:96:MET:HG3	1.62	0.64
1:M:538:ARG:HH12	8:T:121:LEU:HG	1.61	0.64
2:N:225:ILE:HG21	2:N:228:VAL:CG2	2.26	0.64
2:N:992:VAL:HG22	2:N:993:THR:N	2.09	0.64
4:P:54:SER:H	4:P:109:LEU:CD2	2.09	0.64
4:P:150:CYS:HB3	4:P:175:LEU:HD22	1.78	0.64
1:A:108:MET:C	1:A:110:CYS:H	2.03	0.64
1:A:496:GLU:HB3	6:F:99:LEU:HB3	1.79	0.64
2:B:266:PRO:HG2	2:B:352:GLU:HB3	1.79	0.64
5:E:77:LEU:HD21	5:E:79:VAL:HG23	1.78	0.64
2:N:12:ILE:HG23	2:N:652:ILE:HD11	1.79	0.64
2:N:47:GLN:OE1	2:N:82:ILE:HG22	1.96	0.64
6:R:124:GLU:HB3	6:R:130:ILE:HG12	1.79	0.64
2:B:824:ILE:HG22	2:B:1087:PHE:HE2	1.62	0.64
3:C:62:ILE:HA	3:C:65:ARG:HG3	1.78	0.64
1:M:568:LYS:CB	1:M:569:PRO:CD	2.74	0.64
1:M:794:SER:HB2	1:M:795:PRO:HD2	1.79	0.64
2:N:873:GLU:O	2:N:914:LYS:HA	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1157:ALA:O	2:N:1158:PHE:HB2	1.97	0.64
3:O:42:THR:HB	3:O:170:TRP:HD1	1.63	0.64
7:S:34:VAL:HG12	7:S:45:ILE:CG2	2.25	0.64
2:B:983:ARG:HH11	2:B:1091:TYR:CB	2.10	0.64
8:H:142:LEU:O	8:H:143:ILE:HG13	1.98	0.64
1:M:95:PHE:HE2	1:M:1413:PHE:HB3	1.63	0.64
1:M:225:PHE:CG	1:M:232:PRO:HG3	2.33	0.64
1:M:1449:ASP:HB2	6:R:133:VAL:HG22	1.79	0.64
3:O:21:LEU:HD22	3:O:230:MET:HE1	1.78	0.64
3:O:175:ALA:HB2	10:V:42:ARG:HH22	1.63	0.64
10:V:9:SER:HB2	10:V:44:CYS:HB2	1.80	0.64
1:A:95:PHE:HE2	1:A:1413:PHE:HB3	1.63	0.64
1:A:1063:GLY:HA2	1:A:1440:GLY:HA2	1.79	0.64
2:B:12:ILE:HG23	2:B:652:ILE:HD11	1.79	0.64
2:B:270:GLN:HG2	2:B:271:ASP:N	2.10	0.64
1:M:69:THR:C	1:M:71:GLY:N	2.50	0.64
1:M:115:LEU:HD12	1:M:142:CYS:SG	2.37	0.64
1:M:496:GLU:HB3	6:R:99:LEU:CA	2.28	0.64
2:N:681:LEU:O	2:N:687:ILE:HG22	1.96	0.64
2:N:782:LEU:HD12	2:N:788:ARG:HH11	1.62	0.64
2:N:860:MET:HB2	2:N:965:LYS:HG2	1.78	0.64
6:R:110:ASP:O	6:R:112:GLU:N	2.31	0.64
9:U:13:MET:HE3	9:U:14:LEU:H	1.61	0.64
10:V:7:CYS:SG	10:V:48:MET:HE3	2.37	0.64
2:B:1116:ARG:CG	2:B:1198:TYR:CE1	2.79	0.64
4:D:114:ARG:HB3	4:D:115:PHE:CE1	2.32	0.64
1:M:1322:VAL:O	1:M:1325:VAL:HG22	1.96	0.64
3:O:38:ALA:O	3:O:164:ALA:HB3	1.98	0.64
8:T:142:LEU:C	8:T:143:ILE:HG13	2.23	0.64
2:B:235:LEU:HD11	2:B:359:GLN:NE2	2.13	0.64
3:C:15:ASP:O	3:C:16:GLU:CG	2.46	0.64
4:D:41:HIS:HB2	7:G:73:LYS:HE3	1.78	0.64
8:T:142:LEU:O	8:T:143:ILE:HG13	1.98	0.64
1:A:920:ILE:HG21	1:A:985:ILE:HD11	1.80	0.64
1:A:1239:ILE:HG22	1:A:1240:ILE:N	2.12	0.64
2:B:555:GLY:HA3	2:B:583:HIS:CE1	2.31	0.64
6:F:110:ASP:O	6:F:112:GLU:N	2.31	0.64
1:M:333:LYS:N	1:M:338:ARG:HB3	2.06	0.64
1:M:848:ASP:N	1:M:1427:VAL:HG21	2.13	0.64
2:N:290:LEU:HD22	2:N:290:LEU:H	1.62	0.64
3:O:15:ASP:O	3:O:16:GLU:CG	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:225:PHE:CG	1:A:232:PRO:HG3	2.33	0.63
1:A:467:SER:HB2	2:B:1099:VAL:HG11	1.78	0.63
1:A:794:SER:HB2	1:A:795:PRO:HD2	1.79	0.63
1:A:870:GLY:O	5:E:203:THR:HG21	1.97	0.63
5:E:15:PHE:CZ	5:E:19:LYS:HE2	2.33	0.63
8:H:142:LEU:C	8:H:143:ILE:HG13	2.23	0.63
12:L:30:LYS:HG3	12:L:41:SER:OG	1.99	0.63
1:M:769:GLN:OE1	1:M:817:HIS:HA	1.97	0.63
1:M:1154:ILE:CG1	9:U:44:TYR:HB3	2.27	0.63
2:N:1096:ARG:O	2:N:1097:HIS:HB2	1.99	0.63
3:O:45:ILE:HG23	3:O:157:CYS:HB3	1.80	0.63
4:P:114:ARG:HB3	4:P:115:PHE:CE1	2.32	0.63
1:A:1044:PHE:CE2	1:A:1048:LEU:HD11	2.33	0.63
10:J:46:ARG:HG2	10:J:46:ARG:HH11	1.64	0.63
1:M:1044:PHE:CE2	1:M:1048:LEU:HD11	2.33	0.63
2:N:83:TYR:HB2	2:N:116:TYR:HB2	1.79	0.63
2:N:92:ALA:O	2:N:93:ASP:HB2	1.98	0.63
2:N:235:LEU:HD11	2:N:359:GLN:NE2	2.13	0.63
2:N:401:LEU:HD13	2:N:538:ILE:HD12	1.80	0.63
3:O:201:TRP:HE3	3:O:202:PRO:HD2	1.63	0.63
10:V:46:ARG:HG2	10:V:46:ARG:HH11	1.63	0.63
1:A:1367:ASN:HD22	1:A:1368:TYR:H	1.47	0.63
2:B:756:ILE:O	2:B:759:PRO:HD3	1.98	0.63
2:B:1094:ARG:NH2	2:B:1098:MET:HG2	2.13	0.63
7:G:89:ALA:HB2	7:G:103:VAL:CG2	2.28	0.63
2:N:1159:ARG:CD	2:N:1193:GLN:HE21	2.11	0.63
12:X:30:LYS:HG3	12:X:41:SER:OG	1.98	0.63
1:A:50:GLU:C	1:A:52:GLY:H	2.06	0.63
1:A:371:ILE:HG22	1:A:375:LEU:HD12	1.80	0.63
1:A:538:ARG:HH12	8:H:121:LEU:HG	1.61	0.63
1:A:1352:TYR:O	1:A:1355:ILE:HG23	1.98	0.63
2:B:83:TYR:HB2	2:B:116:TYR:HB2	1.79	0.63
2:B:860:MET:HB2	2:B:965:LYS:HG2	1.78	0.63
2:B:1159:ARG:CD	2:B:1193:GLN:HE21	2.12	0.63
9:I:14:LEU:HD13	9:I:28:SER:O	1.99	0.63
10:J:35:LEU:CB	10:J:46:ARG:HH12	2.10	0.63
12:L:63:THR:HG21	12:L:65:ARG:HG3	1.79	0.63
1:M:788:PHE:CE1	1:M:797:SER:HA	2.34	0.63
1:M:1367:ASN:HD22	1:M:1368:TYR:H	1.47	0.63
3:O:184:ASN:HD21	3:O:189:THR:HB	1.63	0.63
1:A:270:ILE:HD13	1:A:301:VAL:HG22	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:890:SER:HB3	1:A:1300:GLU:CG	2.28	0.63
2:B:1116:ARG:HG3	2:B:1198:TYR:CD1	2.33	0.63
11:K:7:PHE:HA	11:K:10:PHE:CE2	2.34	0.63
1:M:848:ASP:CB	1:M:1427:VAL:HG23	2.27	0.63
1:M:920:ILE:HG21	1:M:985:ILE:HD11	1.80	0.63
2:N:286:ASP:C	2:N:288:GLU:H	2.06	0.63
2:N:634:GLU:C	2:N:636:ASP:H	2.05	0.63
8:T:94:TYR:HE2	8:T:96:MET:HG3	1.62	0.63
9:U:62:ILE:O	9:U:62:ILE:HG12	1.98	0.63
1:A:769:GLN:HG3	1:A:817:HIS:HA	1.78	0.63
1:A:776:ILE:HG23	1:A:819:MET:SD	2.38	0.63
1:A:1342:LEU:HD13	5:E:146:HIS:CD2	2.34	0.63
3:C:201:TRP:HE3	3:C:202:PRO:HD2	1.64	0.63
6:F:101:ILE:HD13	6:F:120:ILE:HG22	1.81	0.63
6:F:124:GLU:HB3	6:F:130:ILE:HG12	1.79	0.63
7:G:1:MET:HE1	7:G:80:LYS:H	1.64	0.63
9:I:69:PRO:HB2	9:I:85:PHE:CZ	2.34	0.63
1:M:270:ILE:HD11	1:M:301:VAL:HA	1.81	0.63
2:N:953:LEU:O	2:N:953:LEU:HD23	1.99	0.63
2:N:1094:ARG:NH2	2:N:1098:MET:HG2	2.13	0.63
2:N:1151:LEU:HD13	2:N:1151:LEU:N	2.12	0.63
9:U:14:LEU:HD13	9:U:28:SER:O	1.99	0.63
2:B:766:ARG:NH2	2:B:1020:ARG:HD3	2.14	0.63
3:C:184:ASN:HD21	3:C:189:THR:HB	1.63	0.63
4:D:51:LEU:CD1	4:D:56:SER:HA	2.28	0.63
4:D:68:SER:HB2	4:D:93:THR:HG21	1.80	0.63
7:G:7:LEU:HB2	7:G:74:TYR:CE2	2.34	0.63
1:M:776:ILE:CG2	1:M:819:MET:HE1	2.28	0.63
2:N:766:ARG:NH2	2:N:1020:ARG:HD3	2.14	0.63
2:N:825:VAL:HG21	2:N:1090:THR:HB	1.80	0.63
5:Q:89:ILE:HG22	5:Q:118:SER:C	2.22	0.63
6:R:101:ILE:HD13	6:R:120:ILE:HG22	1.81	0.63
1:A:321:ARG:HH22	1:A:324:LYS:HE3	1.64	0.63
1:A:446:ASN:HB2	1:A:455:SER:O	1.99	0.63
1:A:739:LYS:HB2	1:A:741:LEU:CD2	2.24	0.63
1:A:1004:GLY:HA3	1:A:1009:ILE:HG21	1.80	0.63
2:B:290:LEU:H	2:B:290:LEU:CD2	2.11	0.63
2:B:778:MET:HE3	2:B:1094:ARG:HD3	1.80	0.63
2:B:1183:ARG:O	2:B:1184:SER:CB	2.46	0.63
1:M:473:LEU:O	1:M:476:THR:HB	1.99	0.63
1:M:1004:GLY:HA3	1:M:1009:ILE:HG21	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:22:SER:HA	2:N:811:TYR:HE2	1.63	0.63
4:P:68:SER:HB2	4:P:93:THR:HG21	1.80	0.63
7:S:89:ALA:HB2	7:S:103:VAL:CG2	2.28	0.63
1:A:417:ARG:O	1:A:418:TYR:HD2	1.82	0.63
1:A:752:SER:O	1:A:753:LYS:HG2	1.98	0.63
2:B:846:ILE:CG2	2:B:974:PRO:HG2	2.29	0.63
1:M:50:GLU:C	1:M:52:GLY:H	2.06	0.63
1:M:825:LEU:HD21	2:N:765:PRO:CB	2.26	0.63
1:M:890:SER:HB3	1:M:1300:GLU:CG	2.28	0.63
7:S:7:LEU:HB2	7:S:74:TYR:CE2	2.34	0.63
7:S:51:GLY:O	7:S:54:ILE:HG13	1.99	0.63
10:V:35:LEU:CB	10:V:46:ARG:HH12	2.10	0.63
1:A:54:ASN:C	1:A:56:PRO:HD3	2.24	0.62
1:A:352:THR:HG21	2:B:1103:ILE:HD12	1.81	0.62
2:B:37:SER:OG	2:B:404:PRO:HD3	1.99	0.62
2:B:270:GLN:CG	2:B:271:ASP:H	2.12	0.62
3:C:38:ALA:O	3:C:164:ALA:HB3	1.98	0.62
1:M:591:ARG:HB3	1:M:606:MET:H	1.64	0.62
2:N:344:TYR:CZ	2:N:348:ILE:HD11	2.34	0.62
2:N:778:MET:HE3	2:N:1094:ARG:HD3	1.79	0.62
6:R:100:GLN:HE22	7:S:61:ILE:CG2	2.04	0.62
12:X:63:THR:HG21	12:X:65:ARG:HG3	1.79	0.62
1:A:19:PHE:HB3	1:A:1416:GLY:HA2	1.81	0.62
2:B:782:LEU:HD12	2:B:788:ARG:HH11	1.62	0.62
2:B:953:LEU:HD23	2:B:953:LEU:O	1.99	0.62
3:C:115:SER:OG	3:C:142:ILE:CG1	2.47	0.62
1:M:371:ILE:HG22	1:M:375:LEU:HD12	1.80	0.62
4:P:51:LEU:CD1	4:P:56:SER:HA	2.29	0.62
5:Q:15:PHE:CZ	5:Q:19:LYS:HE2	2.33	0.62
7:S:1:MET:HE1	7:S:80:LYS:H	1.64	0.62
1:A:776:ILE:HD12	1:A:819:MET:SD	2.40	0.62
1:A:864:ILE:HG22	5:E:173:GLN:O	1.99	0.62
2:B:286:ASP:C	2:B:288:GLU:H	2.06	0.62
2:B:1072:MET:CE	2:B:1085:VAL:HB	2.22	0.62
3:C:35:THR:HG21	3:C:251:LEU:CD2	2.29	0.62
7:G:51:GLY:O	7:G:54:ILE:HG13	1.99	0.62
1:M:54:ASN:C	1:M:56:PRO:HD3	2.24	0.62
1:M:446:ASN:HB2	1:M:455:SER:O	1.99	0.62
1:M:962:LEU:HA	1:M:965:ILE:CG2	2.30	0.62
1:M:1342:LEU:HD13	5:Q:146:HIS:CD2	2.34	0.62
2:N:37:SER:OG	2:N:404:PRO:HD3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:290:LEU:H	2:N:290:LEU:CD2	2.11	0.62
2:N:916:THR:HB	2:N:935:ARG:CG	2.29	0.62
9:U:26:LEU:HD23	9:U:37:LEU:HA	1.81	0.62
12:X:62:ARG:HG2	12:X:63:THR:H	1.64	0.62
2:B:401:LEU:HD13	2:B:538:ILE:HD12	1.80	0.62
2:B:459:TRP:HA	2:B:459:TRP:CE3	2.34	0.62
2:N:393:HIS:NE2	2:N:696:GLU:HG3	2.14	0.62
2:N:417:LEU:O	2:N:421:ILE:HG13	2.00	0.62
1:A:107:CYS:SG	1:A:148:CYS:HB2	2.40	0.62
1:A:630:LEU:O	1:A:633:THR:CG2	2.47	0.62
1:A:788:PHE:CE1	1:A:797:SER:HA	2.34	0.62
1:A:981:SER:OG	1:A:982:ASP:N	2.32	0.62
2:B:758:PHE:CZ	2:B:1044:ALA:HA	2.35	0.62
2:B:825:VAL:HG21	2:B:1090:THR:HB	1.80	0.62
2:B:842:ASN:ND2	2:B:845:SER:OG	2.33	0.62
2:B:1096:ARG:O	2:B:1097:HIS:HB2	1.98	0.62
3:C:42:THR:HB	3:C:170:TRP:HD1	1.63	0.62
3:C:219:PHE:CD2	8:H:45:GLU:HG2	2.34	0.62
5:E:174:LEU:HD23	5:E:175:PRO:CD	2.28	0.62
1:M:19:PHE:HB3	1:M:1416:GLY:HA2	1.81	0.62
1:M:417:ARG:O	1:M:418:TYR:HD2	1.82	0.62
1:M:630:LEU:O	1:M:633:THR:CG2	2.47	0.62
1:M:739:LYS:HD2	1:M:739:LYS:N	2.13	0.62
2:N:698:ILE:HD11	2:N:700:ILE:HD11	1.81	0.62
3:O:219:PHE:CD2	8:T:45:GLU:HG2	2.35	0.62
11:W:7:PHE:HA	11:W:10:PHE:CE2	2.34	0.62
1:A:270:ILE:HD11	1:A:301:VAL:HA	1.81	0.62
1:A:521:VAL:CG1	1:A:521:VAL:CA	2.73	0.62
2:B:92:ALA:O	2:B:93:ASP:HB2	1.98	0.62
2:B:387:ASP:OD2	9:I:91:ARG:NE	2.33	0.62
2:B:416:LYS:HB2	2:B:416:LYS:NZ	2.15	0.62
2:B:417:LEU:O	2:B:421:ILE:HG13	2.00	0.62
2:B:1208:MET:O	2:B:1211:ASN:N	2.31	0.62
3:C:45:ILE:HG23	3:C:157:CYS:HB3	1.80	0.62
3:C:148:ARG:CG	3:C:149:ASN:H	2.13	0.62
9:I:26:LEU:HD23	9:I:37:LEU:HA	1.81	0.62
1:M:107:CYS:SG	1:M:148:CYS:HB2	2.40	0.62
1:M:521:VAL:CG2	1:M:521:VAL:CA	2.73	0.62
1:M:752:SER:O	1:M:753:LYS:HG2	1.99	0.62
2:N:842:ASN:ND2	2:N:845:SER:OG	2.33	0.62
2:N:1220:ARG:HB3	2:N:1220:ARG:CZ	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:184:ASN:ND2	3:O:189:THR:HB	2.15	0.62
1:A:962:LEU:HA	1:A:965:ILE:CG2	2.30	0.62
3:C:184:ASN:ND2	3:C:189:THR:HB	2.15	0.62
4:D:56:SER:CB	4:D:109:LEU:HD11	2.29	0.62
5:E:16:ARG:O	5:E:20:GLU:HG3	2.00	0.62
7:G:160:ILE:HG22	7:G:161:GLY:N	2.14	0.62
1:M:346:VAL:H	2:N:1129:ARG:HA	1.62	0.62
1:M:846:LEU:HB3	1:M:849:ILE:HD12	1.81	0.62
1:M:967:GLN:HA	1:M:970:GLN:CG	2.30	0.62
2:N:459:TRP:HA	2:N:459:TRP:CE3	2.34	0.62
2:N:1169:MET:CE	2:N:1204:PHE:HB2	2.30	0.62
2:N:1183:ARG:O	2:N:1184:SER:CB	2.46	0.62
4:P:90:ALA:O	4:P:92:VAL:N	2.26	0.62
4:P:139:PRO:O	4:P:142:ILE:HG23	2.00	0.62
1:A:181:LYS:HZ3	1:A:295:GLN:HB3	1.65	0.62
1:A:1453:LEU:HD23	7:G:22:MET:SD	2.39	0.62
2:B:883:LEU:O	2:B:885:LEU:N	2.33	0.62
3:C:65:ARG:NH2	10:J:3:ILE:O	2.33	0.62
1:M:471:LEU:CD2	1:M:488:MET:HE2	2.30	0.62
2:N:394:PHE:HE2	2:N:514:LEU:HD13	1.65	0.62
2:N:480:THR:O	2:N:483:SER:HB3	2.00	0.62
1:A:41:MET:CB	1:A:49:ARG:HA	2.22	0.62
1:A:846:LEU:HD12	1:A:1071:ALA:HB2	1.80	0.62
1:A:872:ASP:OD2	1:A:874:LEU:HB2	2.00	0.62
1:A:890:SER:HB3	1:A:1300:GLU:HG3	1.81	0.62
2:B:344:TYR:CZ	2:B:348:ILE:HD11	2.34	0.62
2:B:637:GLU:C	2:B:639:LYS:H	2.07	0.62
2:B:698:ILE:HD11	2:B:700:ILE:HD11	1.81	0.62
2:B:799:PRO:HB3	2:B:818:PRO:HG2	1.81	0.62
3:C:65:ARG:NH1	10:J:2:ILE:CG2	2.63	0.62
9:I:19:ASP:OD1	9:I:22:ASN:HB2	2.00	0.62
1:M:846:LEU:HD12	1:M:1071:ALA:HB2	1.80	0.62
2:N:744:HIS:CD2	2:N:746:SER:OG	2.53	0.62
2:N:756:ILE:O	2:N:759:PRO:HD3	1.99	0.62
2:N:798:TYR:HD2	2:N:798:TYR:N	1.98	0.62
3:O:167:HIS:HD2	3:O:168:ALA:H	1.46	0.62
7:S:1:MET:HE3	7:S:80:LYS:O	2.00	0.62
9:U:69:PRO:HB2	9:U:85:PHE:CZ	2.34	0.62
1:A:591:ARG:HB3	1:A:606:MET:H	1.64	0.62
1:A:630:LEU:HA	1:A:633:THR:CG2	2.30	0.62
1:A:1331:TYR:CD1	1:A:1338:ILE:HD11	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:480:THR:O	2:B:483:SER:HB3	2.00	0.62
3:C:221:TYR:CD1	3:C:222:LYS:HG3	2.35	0.62
1:M:321:ARG:HH22	1:M:324:LYS:HE3	1.64	0.62
1:M:890:SER:HB3	1:M:1300:GLU:HG3	1.81	0.62
1:M:960:VAL:HG22	1:M:1054:GLN:HB3	1.82	0.62
2:N:95:THR:OG1	2:N:96:THR:N	2.26	0.62
2:N:800:GLN:HG2	10:V:51:THR:CG2	2.30	0.62
2:N:834:ASN:HA	2:N:838:SER:O	2.00	0.62
2:N:846:ILE:CG2	2:N:974:PRO:HG2	2.29	0.62
8:T:58:THR:HG22	8:T:59:LEU:N	2.15	0.62
10:V:2:ILE:H	10:V:56:ILE:HG22	1.65	0.62
11:W:40:HIS:HD1	11:W:61:TYR:HH	1.46	0.62
1:A:854:ASP:OD1	1:A:856:THR:HG22	2.00	0.61
2:B:916:THR:HB	2:B:935:ARG:CG	2.29	0.61
1:M:872:ASP:OD2	1:M:874:LEU:HB2	2.00	0.61
2:N:270:GLN:HG2	2:N:271:ASP:N	2.10	0.61
2:N:416:LYS:HB2	2:N:416:LYS:NZ	2.15	0.61
2:N:637:GLU:C	2:N:639:LYS:H	2.07	0.61
3:O:35:THR:HG21	3:O:251:LEU:CD2	2.30	0.61
7:S:7:LEU:CD1	7:S:45:ILE:HD11	2.30	0.61
1:A:848:ASP:O	1:A:859:ASN:HA	2.00	0.61
1:A:1320:MET:HE1	1:A:1342:LEU:HD21	1.81	0.61
2:B:220:ALA:HB1	2:B:222:PRO:HD2	1.82	0.61
11:K:53:TYR:C	11:K:55:ASP:N	2.58	0.61
12:L:62:ARG:HG2	12:L:63:THR:H	1.64	0.61
1:M:270:ILE:HD13	1:M:301:VAL:HG22	1.81	0.61
1:M:1293:SER:O	1:M:1294:VAL:HG23	2.00	0.61
1:M:1331:TYR:CD1	1:M:1338:ILE:HD11	2.35	0.61
2:N:815:ARG:O	10:V:53:VAL:HG21	2.00	0.61
2:N:883:LEU:O	2:N:885:LEU:N	2.33	0.61
3:O:164:ALA:HA	3:O:167:HIS:O	1.99	0.61
1:A:667:ILE:HD11	2:B:1067:ARG:O	2.00	0.61
1:A:675:SER:OG	5:Q:43:SER:O	2.18	0.61
2:B:955:THR:HG22	2:B:956:THR:N	2.14	0.61
3:C:259:LEU:HD11	11:K:88:GLU:HA	1.82	0.61
1:M:962:LEU:O	1:M:965:ILE:HG22	2.01	0.61
1:M:967:GLN:HA	1:M:970:GLN:HG3	1.83	0.61
2:N:1215:ARG:HD2	4:P:15:ALA:CB	2.21	0.61
3:O:167:HIS:CD2	3:O:168:ALA:H	2.19	0.61
4:P:67:ARG:C	4:P:69:ARG:H	2.08	0.61
2:B:744:HIS:ND1	2:B:745:PRO:HD2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:221:TYR:CE1	3:C:222:LYS:HG3	2.35	0.61
4:D:139:PRO:O	4:D:142:ILE:HG23	2.00	0.61
8:H:38:LEU:HD13	8:H:124:LEU:HD13	1.82	0.61
9:I:62:ILE:O	9:I:62:ILE:HG12	1.98	0.61
10:J:2:ILE:H	10:J:56:ILE:HG22	1.65	0.61
1:M:181:LYS:HZ3	1:M:295:GLN:HB3	1.63	0.61
1:M:642:ILE:CG1	1:M:643:CYS:N	2.64	0.61
1:M:854:ASP:OD1	1:M:856:THR:HG22	2.00	0.61
2:N:220:ALA:HB1	2:N:222:PRO:HD2	1.82	0.61
2:N:744:HIS:ND1	2:N:745:PRO:HD2	2.15	0.61
3:O:221:TYR:CD1	3:O:222:LYS:HG3	2.35	0.61
4:P:56:SER:CB	4:P:109:LEU:HD11	2.29	0.61
5:Q:16:ARG:O	5:Q:20:GLU:HG3	2.00	0.61
10:V:23:ARG:C	10:V:25:LEU:H	2.09	0.61
1:A:801:VAL:HG11	1:A:809:LEU:HG	1.81	0.61
1:A:967:GLN:HA	1:A:970:GLN:CG	2.30	0.61
2:B:839:MET:HE3	2:B:1010:LEU:HD21	1.83	0.61
2:B:983:ARG:HH11	2:B:1091:TYR:HB3	1.66	0.61
3:C:175:ALA:HB2	10:J:42:ARG:HH22	1.63	0.61
1:M:565:ALA:HB2	1:M:577:GLN:CD	2.26	0.61
1:M:630:LEU:HA	1:M:633:THR:CG2	2.30	0.61
1:M:1122:LEU:CD1	1:M:1122:LEU:H	2.13	0.61
2:N:983:ARG:HH11	2:N:1091:TYR:HB3	1.66	0.61
3:O:65:ARG:NH1	10:V:2:ILE:CG2	2.63	0.61
11:W:70:ASN:O	11:W:71:PHE:HB3	2.00	0.61
1:A:264:THR:O	1:A:264:THR:HG22	2.01	0.61
1:A:1122:LEU:CD1	1:A:1122:LEU:H	2.13	0.61
2:B:572:ARG:HB2	2:B:579:TRP:NE1	2.15	0.61
2:B:834:ASN:HA	2:B:838:SER:O	2.00	0.61
3:C:167:HIS:HD2	3:C:168:ALA:H	1.46	0.61
2:N:572:ARG:HB2	2:N:579:TRP:NE1	2.15	0.61
5:Q:14:SER:O	5:Q:18:VAL:HG23	2.01	0.61
8:T:38:LEU:HD13	8:T:124:LEU:HD13	1.82	0.61
1:A:34:LYS:HD3	1:A:34:LYS:N	2.15	0.61
1:A:775:ARG:HB2	1:A:798:LYS:HB3	1.83	0.61
1:A:846:LEU:HB3	1:A:849:ILE:HD12	1.81	0.61
2:B:253:GLU:O	2:B:253:GLU:HG2	2.00	0.61
2:B:290:LEU:HD12	2:B:306:LEU:HD13	1.81	0.61
2:B:1149:GLU:HA	2:B:1153:GLU:OE1	2.00	0.61
2:B:1169:MET:CE	2:B:1204:PHE:HB2	2.29	0.61
4:D:67:ARG:C	4:D:69:ARG:H	2.08	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:1:MET:HE3	7:G:80:LYS:O	2.00	0.61
7:G:7:LEU:HB2	7:G:74:TYR:HE2	1.66	0.61
2:N:290:LEU:HD12	2:N:306:LEU:HD13	1.81	0.61
2:N:446:ILE:O	2:N:450:LEU:HG	2.00	0.61
2:N:1073:TYR:CE2	2:N:1080:LYS:HG2	2.36	0.61
6:R:100:GLN:NE2	7:S:61:ILE:CG2	2.57	0.61
1:A:561:VAL:HG23	8:H:78:TRP:H	1.66	0.61
1:A:1447:MET:HG2	7:G:60:ARG:HB3	1.76	0.61
2:B:798:TYR:HD2	2:B:798:TYR:N	1.98	0.61
3:C:242:GLN:C	3:C:244:PHE:H	2.08	0.61
7:G:34:VAL:HG11	7:G:74:TYR:OH	2.01	0.61
1:M:497:GLU:HG2	6:R:99:LEU:HD23	1.83	0.61
1:M:771:VAL:HA	1:M:823:GLU:CD	2.25	0.61
1:M:1331:TYR:HD1	1:M:1338:ILE:HD11	1.66	0.61
2:N:798:TYR:CD2	2:N:798:TYR:N	2.68	0.61
2:N:1095:LEU:HD12	2:N:1095:LEU:N	2.12	0.61
1:A:70:CYS:O	1:A:72:GLU:HG2	2.01	0.61
1:A:203:LEU:CG	1:A:207:GLU:HB2	2.31	0.61
1:A:267:LEU:HD21	1:A:304:TYR:CE1	2.36	0.61
1:A:473:LEU:O	1:A:476:THR:HB	1.99	0.61
1:A:967:GLN:HA	1:A:970:GLN:HG3	1.82	0.61
1:A:1450:GLU:CG	7:G:22:MET:SD	2.89	0.61
3:C:164:ALA:HA	3:C:167:HIS:O	1.99	0.61
3:C:167:HIS:HE1	12:L:72:THR:HA	1.66	0.61
7:G:7:LEU:CD1	7:G:45:ILE:HD11	2.30	0.61
10:J:5:VAL:HG12	10:J:6:ARG:HG3	1.83	0.61
1:M:70:CYS:O	1:M:72:GLU:HG2	2.01	0.61
1:M:267:LEU:HD21	1:M:304:TYR:CE1	2.36	0.61
1:M:699:GLN:HA	9:U:97:MET:O	2.01	0.61
1:M:1320:MET:HE1	1:M:1342:LEU:HD21	1.81	0.61
2:N:839:MET:HE3	2:N:1010:LEU:HD21	1.82	0.61
3:O:65:ARG:NH2	10:V:3:ILE:O	2.33	0.61
3:O:221:TYR:CE1	3:O:222:LYS:HG3	2.35	0.61
3:O:259:LEU:HD11	11:W:88:GLU:HA	1.82	0.61
1:A:538:ARG:HH22	8:H:121:LEU:CD1	2.14	0.61
2:B:744:HIS:CD2	2:B:746:SER:OG	2.53	0.61
3:C:97:VAL:C	3:C:98:LEU:HD23	2.26	0.61
11:K:70:ASN:O	11:K:71:PHE:HB3	2.00	0.61
1:M:320:GLY:HA2	2:N:464:LYS:HB3	1.83	0.61
1:M:352:THR:HG21	2:N:1103:ILE:HD12	1.81	0.61
1:M:417:ARG:HG3	1:M:418:TYR:CD2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:848:ASP:O	1:M:859:ASN:HA	2.00	0.61
2:N:181:TYR:CD2	10:V:61:ARG:HB3	2.36	0.61
3:O:97:VAL:C	3:O:98:LEU:HD23	2.26	0.61
4:P:38:GLN:HB2	7:S:5:LYS:HZ1	1.66	0.61
2:B:872:GLU:OE1	2:B:914:LYS:HE3	2.01	0.60
2:B:1116:ARG:HG3	2:B:1198:TYR:CZ	2.35	0.60
3:C:66:LEU:N	3:C:66:LEU:HD23	2.16	0.60
1:M:827:ASP:O	1:M:831:LYS:HG2	2.00	0.60
1:M:1163:THR:HG22	1:M:1165:ILE:N	2.15	0.60
7:S:34:VAL:HG11	7:S:74:TYR:OH	2.01	0.60
10:V:13:VAL:O	10:V:14:VAL:HG22	2.01	0.60
1:A:744:VAL:O	1:A:748:VAL:HG23	2.01	0.60
1:A:801:VAL:HG11	1:A:809:LEU:CG	2.32	0.60
1:A:1016:ALA:O	1:A:1017:THR:HG22	2.00	0.60
1:A:1331:TYR:HD1	1:A:1338:ILE:HD11	1.66	0.60
2:B:446:ILE:O	2:B:450:LEU:HG	2.01	0.60
2:B:815:ARG:O	10:J:53:VAL:HG21	2.00	0.60
2:B:1220:ARG:HB3	2:B:1220:ARG:CZ	2.29	0.60
7:G:1:MET:CE	7:G:3:PHE:HE1	2.11	0.60
9:I:7:CYS:HB2	9:I:34:TYR:CD1	2.36	0.60
10:J:13:VAL:O	10:J:14:VAL:HG22	2.02	0.60
1:M:667:ILE:HD11	2:N:1067:ARG:O	2.00	0.60
1:M:747:MET:HE1	2:N:1014:PRO:O	2.01	0.60
2:N:758:PHE:CZ	2:N:1044:ALA:HA	2.35	0.60
3:O:66:LEU:N	3:O:66:LEU:HD23	2.16	0.60
7:S:7:LEU:HB2	7:S:74:TYR:HE2	1.66	0.60
7:S:160:ILE:HG22	7:S:161:GLY:N	2.15	0.60
1:A:535:MET:O	1:A:575:GLY:HA3	2.02	0.60
1:A:801:VAL:HG22	1:A:813:GLU:HB3	1.81	0.60
1:A:827:ASP:O	1:A:831:LYS:HG2	2.00	0.60
1:A:960:VAL:HG22	1:A:1054:GLN:HB3	1.82	0.60
2:B:41:PHE:HA	2:B:45:SER:HB2	1.83	0.60
2:B:405:LEU:HB3	2:B:459:TRP:CZ2	2.37	0.60
2:B:607:SER:OG	2:B:620:PHE:HB2	2.02	0.60
1:M:691:VAL:O	1:M:695:ILE:CG1	2.49	0.60
1:M:1326:ASP:OD1	1:M:1328:SER:HB2	2.01	0.60
2:N:253:GLU:HG2	2:N:253:GLU:O	2.00	0.60
2:N:955:THR:HG22	2:N:956:THR:N	2.14	0.60
2:N:1120:GLU:HG2	2:N:1121:GLY:N	2.16	0.60
9:U:19:ASP:OD1	9:U:22:ASN:HB2	2.00	0.60
1:A:471:LEU:CD2	1:A:488:MET:HE2	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:642:ILE:CG1	1:A:643:CYS:N	2.63	0.60
1:A:699:GLN:HA	9:I:97:MET:O	2.01	0.60
2:B:52:GLU:HG3	2:B:53:GLU:N	2.15	0.60
2:B:1196:ILE:HB	2:B:1197:PRO:HD2	1.82	0.60
3:C:167:HIS:CD2	3:C:168:ALA:H	2.18	0.60
5:E:14:SER:O	5:E:18:VAL:HG23	2.01	0.60
8:H:61:ASN:O	8:H:62:SER:HB2	2.01	0.60
1:M:173:PRO:HD3	1:M:186:TRP:NE1	2.17	0.60
1:A:365:VAL:O	1:A:365:VAL:HG13	2.02	0.60
1:A:776:ILE:CG2	1:A:819:MET:HE1	2.28	0.60
7:G:9:LEU:HG	7:G:10:ILE:N	2.16	0.60
1:M:203:LEU:CG	1:M:207:GLU:HB2	2.31	0.60
1:M:264:THR:O	1:M:264:THR:HG22	2.01	0.60
1:M:519:LYS:HE2	1:M:625:SER:O	2.02	0.60
1:M:869:TYR:HE1	1:M:1066:VAL:HG13	1.67	0.60
1:M:981:SER:OG	1:M:982:ASP:N	2.31	0.60
1:M:1389:ARG:HA	1:M:1405:PHE:HE2	1.65	0.60
11:W:53:TYR:C	11:W:55:ASP:N	2.58	0.60
1:A:1163:THR:HG22	1:A:1165:ILE:N	2.15	0.60
1:A:1326:ASP:OD1	1:A:1328:SER:HB2	2.01	0.60
2:B:12:ILE:HD11	2:B:647:ILE:C	2.27	0.60
8:H:58:THR:HG22	8:H:59:LEU:N	2.15	0.60
1:M:493:PRO:CB	1:M:498:THR:HG22	2.32	0.60
2:N:305:MET:HE3	2:N:379:LEU:CD2	2.32	0.60
2:N:519:GLU:CD	2:N:752:ALA:HB2	2.27	0.60
9:U:7:CYS:HB2	9:U:34:TYR:CD1	2.36	0.60
1:A:962:LEU:O	1:A:965:ILE:HG22	2.01	0.60
1:A:1293:SER:O	1:A:1294:VAL:HG23	2.00	0.60
1:A:1447:MET:CG	7:G:60:ARG:N	2.39	0.60
2:B:30:LEU:HD13	2:B:485:LEU:HD13	1.84	0.60
1:M:34:LYS:HD3	1:M:34:LYS:N	2.15	0.60
1:M:538:ARG:HH22	8:T:121:LEU:CD1	2.14	0.60
2:N:847:ASP:HB3	3:O:167:HIS:NE2	2.16	0.60
7:S:9:LEU:HG	7:S:10:ILE:N	2.16	0.60
10:V:5:VAL:HG12	10:V:6:ARG:HG3	1.83	0.60
1:A:63:ARG:HA	1:A:74:MET:HE2	1.84	0.60
1:A:565:ALA:HB2	1:A:577:GLN:CD	2.26	0.60
1:M:365:VAL:HG13	1:M:365:VAL:O	2.02	0.60
1:M:630:LEU:O	1:M:634:VAL:HG23	2.02	0.60
1:M:739:LYS:HB2	1:M:741:LEU:CD2	2.24	0.60
1:M:1376:ASP:O	1:M:1379:THR:HG22	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:111:TYR:HE2	2:N:170:CYS:HG	1.49	0.60
2:N:607:SER:OG	2:N:620:PHE:HB2	2.02	0.60
2:N:872:GLU:OE1	2:N:914:LYS:HE3	2.01	0.60
8:T:61:ASN:O	8:T:62:SER:HB2	2.01	0.60
1:A:389:LEU:O	1:A:393:VAL:HG23	2.02	0.60
2:B:181:TYR:CD2	10:J:61:ARG:HB3	2.37	0.60
2:B:519:GLU:CD	2:B:752:ALA:HB2	2.27	0.60
5:E:107:GLY:HA3	5:E:131:ILE:HG23	1.84	0.60
7:G:88:ASP:CB	7:G:144:ARG:HA	2.23	0.60
8:H:9:ILE:HG12	8:H:56:THR:HG23	1.84	0.60
8:H:80:PRO:HB2	8:H:81:PRO:HD2	1.82	0.60
1:M:1348:ARG:NH1	1:M:1376:ASP:OD1	2.35	0.60
2:N:30:LEU:HD13	2:N:485:LEU:HD13	1.84	0.60
2:N:41:PHE:HA	2:N:45:SER:HB2	1.83	0.60
2:N:1196:ILE:HB	2:N:1197:PRO:HD2	1.82	0.60
8:T:80:PRO:HB2	8:T:81:PRO:HD2	1.83	0.60
1:A:86:LEU:HG	1:A:238:THR:O	2.02	0.60
1:A:577:GLN:O	1:A:580:SER:HB2	2.02	0.60
1:A:691:VAL:O	1:A:695:ILE:CG1	2.49	0.60
2:B:799:PRO:HG2	10:J:55:LEU:HD11	1.84	0.60
2:B:1073:TYR:CE2	2:B:1080:LYS:HG2	2.36	0.60
1:M:345:ARG:CB	2:N:1129:ARG:HB2	2.31	0.60
1:M:389:LEU:O	1:M:393:VAL:HG23	2.02	0.60
1:M:859:ASN:C	1:M:859:ASN:ND2	2.60	0.60
1:M:1021:GLN:CG	1:M:1021:GLN:CA	2.76	0.60
2:N:211:ALA:O	2:N:213:ILE:HG13	2.01	0.60
2:N:799:PRO:HB3	2:N:818:PRO:HG2	1.82	0.60
2:N:804:ALA:HA	2:N:1042:GLY:O	2.02	0.60
2:N:1116:ARG:HG3	2:N:1198:TYR:CE1	2.37	0.60
1:A:493:PRO:CB	1:A:498:THR:HG22	2.32	0.59
1:A:769:GLN:HG3	1:A:816:PHE:C	2.26	0.59
1:A:1445:ASP:OD1	7:G:60:ARG:HD2	2.02	0.59
2:B:305:MET:HE2	2:B:383:LEU:HD21	1.84	0.59
2:B:804:ALA:HA	2:B:1042:GLY:O	2.02	0.59
2:B:847:ASP:HB3	3:C:167:HIS:NE2	2.17	0.59
8:H:18:GLY:O	8:H:19:ARG:HB2	2.02	0.59
8:H:59:LEU:O	8:H:60:ALA:CB	2.50	0.59
10:J:23:ARG:C	10:J:25:LEU:H	2.09	0.59
10:J:27:GLU:C	10:J:29:LYS:H	2.10	0.59
1:M:744:VAL:O	1:M:748:VAL:HG23	2.01	0.59
1:M:843:VAL:C	1:M:845:ALA:H	2.10	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:850:MET:HE1	1:M:1443:ALA:CB	2.32	0.59
1:M:1016:ALA:O	1:M:1017:THR:HG22	2.00	0.59
1:M:1393:ASN:C	1:M:1402:ARG:HG2	2.27	0.59
2:N:305:MET:HE2	2:N:383:LEU:HD21	1.84	0.59
2:N:648:THR:H	2:N:651:HIS:HD2	1.50	0.59
3:O:167:HIS:HE1	12:X:72:THR:HA	1.66	0.59
7:S:34:VAL:CG1	7:S:45:ILE:HG21	2.29	0.59
10:V:27:GLU:C	10:V:29:LYS:H	2.10	0.59
1:A:1034:LEU:O	1:A:1038:ARG:HD3	2.02	0.59
2:B:211:ALA:O	2:B:213:ILE:HG13	2.01	0.59
2:B:266:PRO:O	2:B:267:TYR:HB2	2.02	0.59
2:B:857:ARG:HG2	2:B:859:TYR:CE1	2.38	0.59
2:B:878:THR:O	2:B:879:ARG:C	2.45	0.59
2:B:1120:GLU:HG2	2:B:1121:GLY:N	2.16	0.59
2:B:1152:MET:HE1	2:B:1157:ALA:HA	1.84	0.59
5:E:21:MET:CE	5:E:25:ARG:HH21	2.15	0.59
1:M:536:THR:CG2	1:M:617:VAL:HA	2.32	0.59
1:M:568:LYS:CB	1:M:569:PRO:HD2	2.31	0.59
1:M:715:PHE:HB2	9:U:97:MET:HE1	1.84	0.59
2:N:799:PRO:HG2	10:V:55:LEU:HD11	1.84	0.59
8:T:59:LEU:O	8:T:60:ALA:CB	2.50	0.59
1:A:332:GLY:O	1:A:333:LYS:HB3	2.03	0.59
1:A:362:LEU:HA	1:A:472:ASN:ND2	2.18	0.59
1:A:630:LEU:O	1:A:634:VAL:HG23	2.02	0.59
1:A:1122:LEU:H	1:A:1122:LEU:HD13	1.68	0.59
1:A:1268:ALA:C	1:A:1270:MET:H	2.11	0.59
2:B:111:TYR:HE2	2:B:170:CYS:HG	1.50	0.59
2:B:381:CYS:C	2:B:383:LEU:H	2.10	0.59
2:B:1096:ARG:O	2:B:1097:HIS:CB	2.50	0.59
3:C:119:ILE:CG1	3:C:121:VAL:HG22	2.32	0.59
3:C:226:ASN:O	3:C:227:ARG:HB2	2.03	0.59
7:G:34:VAL:HG12	7:G:45:ILE:CG2	2.25	0.59
1:M:561:VAL:HG23	8:T:78:TRP:H	1.66	0.59
1:M:775:ARG:HB2	1:M:798:LYS:HB3	1.83	0.59
1:M:1085:THR:HG21	1:M:1097:THR:HA	1.85	0.59
2:N:770:GLN:HG2	2:N:983:ARG:O	2.02	0.59
2:N:1096:ARG:O	2:N:1097:HIS:CB	2.50	0.59
1:A:410:ASN:O	1:A:412:ASP:N	2.35	0.59
1:A:452:HIS:CD2	1:A:1076:GLU:HG3	2.37	0.59
1:A:591:ARG:HD3	1:A:605:GLY:HA2	1.84	0.59
1:A:715:PHE:HB2	9:I:97:MET:HE1	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:42:THR:CG2	3:C:43:LEU:H	1.90	0.59
10:J:46:ARG:HG2	10:J:46:ARG:NH1	2.18	0.59
11:K:53:TYR:O	11:K:55:ASP:N	2.35	0.59
1:M:72:GLU:OE2	2:N:1175:LEU:HB2	2.02	0.59
2:N:1202:LEU:HD23	2:N:1206:GLU:CG	2.32	0.59
3:O:242:GLN:C	3:O:244:PHE:H	2.08	0.59
8:T:18:GLY:O	8:T:19:ARG:HB2	2.02	0.59
11:W:53:TYR:O	11:W:55:ASP:N	2.36	0.59
1:A:525:VAL:HG12	1:A:526:GLN:H	1.67	0.59
1:A:681:THR:HG23	2:B:726:ILE:CD1	2.32	0.59
1:A:900:VAL:HB	1:A:930:LEU:CD1	2.31	0.59
1:A:1376:ASP:O	1:A:1379:THR:HG22	2.02	0.59
2:B:621:THR:O	2:B:622:ASP:O	2.21	0.59
2:B:798:TYR:CD2	2:B:798:TYR:N	2.68	0.59
1:M:86:LEU:HG	1:M:238:THR:O	2.02	0.59
1:M:410:ASN:O	1:M:412:ASP:N	2.35	0.59
1:M:512:ILE:O	1:M:520:PRO:HA	2.03	0.59
1:M:831:LYS:O	1:M:835:THR:HB	2.03	0.59
2:N:266:PRO:O	2:N:267:TYR:HB2	2.02	0.59
2:N:292:HIS:O	2:N:295:TYR:HE2	1.86	0.59
2:N:587:SER:HA	2:N:610:ARG:NH1	2.18	0.59
2:N:878:THR:O	2:N:879:ARG:C	2.45	0.59
2:N:1152:MET:HE1	2:N:1157:ALA:HA	1.83	0.59
3:O:251:LEU:HD12	3:O:251:LEU:O	2.02	0.59
5:Q:21:MET:CE	5:Q:25:ARG:HH21	2.15	0.59
1:A:173:PRO:HD3	1:A:186:TRP:NE1	2.17	0.59
1:A:417:ARG:HG3	1:A:418:TYR:CD2	2.36	0.59
1:A:512:ILE:O	1:A:520:PRO:HA	2.03	0.59
1:A:568:LYS:CB	1:A:569:PRO:HD2	2.31	0.59
1:A:869:TYR:HE1	1:A:1066:VAL:HG13	1.67	0.59
5:E:160:LYS:C	5:E:162:GLN:H	2.09	0.59
1:M:362:LEU:HA	1:M:472:ASN:ND2	2.18	0.59
1:M:1268:ALA:C	1:M:1270:MET:H	2.11	0.59
2:N:52:GLU:HG3	2:N:53:GLU:N	2.15	0.59
2:N:159:GLY:HA2	2:N:447:THR:OG1	2.02	0.59
2:N:1152:MET:CE	2:N:1157:ALA:HA	2.32	0.59
2:N:1208:MET:O	2:N:1211:ASN:N	2.31	0.59
3:O:148:ARG:CG	3:O:149:ASN:H	2.13	0.59
5:Q:160:LYS:C	5:Q:162:GLN:H	2.09	0.59
6:R:109:VAL:CG1	6:R:110:ASP:H	1.99	0.59
1:A:72:GLU:OE2	2:B:1175:LEU:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:346:VAL:N	2:B:1128:LEU:O	2.35	0.59
1:A:843:VAL:C	1:A:845:ALA:H	2.10	0.59
1:A:1076:GLU:C	1:A:1078:ALA:H	2.10	0.59
1:A:1426:GLY:O	1:A:1429:GLU:HG2	2.03	0.59
5:E:16:ARG:HG3	5:E:16:ARG:NH1	2.17	0.59
6:F:82:THR:HG22	6:F:84:TYR:N	2.10	0.59
8:H:12:VAL:HG21	8:H:53:ASP:HB2	1.85	0.59
2:N:12:ILE:HD11	2:N:647:ILE:C	2.27	0.59
2:N:394:PHE:CE2	2:N:514:LEU:CD1	2.85	0.59
2:N:1166:CYS:O	2:N:1168:LEU:N	2.35	0.59
5:Q:16:ARG:HG3	5:Q:16:ARG:NH1	2.17	0.59
1:A:69:THR:O	1:A:71:GLY:N	2.35	0.59
1:A:402:GLY:C	1:A:436:HIS:CD2	2.81	0.59
1:A:1016:ALA:O	1:A:1017:THR:CG2	2.51	0.59
2:B:224:PRO:HG2	2:B:225:ILE:HD12	1.85	0.59
2:B:292:HIS:O	2:B:295:TYR:HE2	1.86	0.59
2:B:800:GLN:HG2	10:J:51:THR:CG2	2.31	0.59
4:D:108:TYR:CD2	4:D:108:TYR:C	2.80	0.59
1:M:900:VAL:HB	1:M:930:LEU:CD1	2.31	0.59
1:M:1016:ALA:O	1:M:1017:THR:CG2	2.51	0.59
1:M:1426:GLY:O	1:M:1429:GLU:HG2	2.03	0.59
4:P:114:ARG:C	4:P:115:PHE:CD1	2.81	0.59
4:P:169:VAL:O	4:P:172:GLN:HB2	2.03	0.59
1:A:926:LEU:HD13	1:A:985:ILE:HD12	1.85	0.59
1:A:988:ILE:HD11	1:A:1033:ILE:CG1	2.33	0.59
1:A:1214:VAL:O	1:A:1218:ILE:HG13	2.03	0.59
2:B:344:TYR:CE2	2:B:348:ILE:HD11	2.38	0.59
2:B:587:SER:HA	2:B:610:ARG:NH1	2.18	0.59
1:M:967:GLN:O	1:M:970:GLN:HB2	2.02	0.59
2:N:955:THR:CG2	2:N:956:THR:N	2.65	0.59
2:N:1129:ARG:HG2	2:N:1131:GLY:N	2.17	0.59
2:N:1148:LYS:O	2:N:1152:MET:HB2	2.01	0.59
5:Q:21:MET:CE	5:Q:25:ARG:HE	2.15	0.59
8:T:9:ILE:HG12	8:T:56:THR:HG23	1.84	0.59
8:T:36:ILE:HA	8:T:125:GLU:O	2.03	0.59
1:A:568:LYS:HD3	8:H:94:TYR:CD2	2.37	0.59
1:A:739:LYS:HD2	1:A:739:LYS:N	2.13	0.59
1:A:967:GLN:O	1:A:970:GLN:HB2	2.02	0.59
1:A:1444:PHE:CE2	6:F:89:GLU:HG2	2.36	0.59
2:B:648:THR:H	2:B:651:HIS:HD2	1.50	0.59
2:B:1152:MET:CE	2:B:1157:ALA:HA	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:243:VAL:O	3:C:243:VAL:HG12	2.02	0.59
4:D:114:ARG:C	4:D:115:PHE:CD1	2.81	0.59
4:D:169:VAL:O	4:D:172:GLN:HB2	2.03	0.59
1:M:346:VAL:H	2:N:1129:ARG:CA	2.16	0.59
1:M:448:GLN:HA	1:M:449:PRO:C	2.27	0.59
2:N:344:TYR:CE2	2:N:348:ILE:HD11	2.37	0.59
4:P:108:TYR:C	4:P:108:TYR:CD2	2.80	0.59
7:S:1:MET:CE	7:S:3:PHE:HE1	2.11	0.59
8:T:94:TYR:CE2	8:T:96:MET:HG3	2.38	0.59
1:A:1371:MET:H	1:A:1371:MET:CE	2.16	0.58
2:B:86:ARG:HB3	2:B:87:PRO:HD2	1.85	0.58
2:B:761:HIS:HB2	2:B:1024:ALA:HB2	1.85	0.58
1:M:577:GLN:O	1:M:580:SER:HB2	2.02	0.58
3:O:167:HIS:CE1	12:X:72:THR:HA	2.38	0.58
3:O:243:VAL:O	3:O:243:VAL:HG12	2.02	0.58
6:R:101:ILE:HD13	6:R:120:ILE:CG2	2.33	0.58
1:A:536:THR:CG2	1:A:617:VAL:HA	2.32	0.58
1:A:791:ASP:OD2	9:I:87:GLN:HG3	2.03	0.58
1:A:1215:ALA:HA	1:A:1218:ILE:HD12	1.85	0.58
1:A:1268:ALA:C	1:A:1270:MET:N	2.61	0.58
1:A:1348:ARG:NH1	1:A:1376:ASP:OD1	2.35	0.58
1:A:1441:THR:CG2	2:B:1144:ALA:HB3	2.32	0.58
1:A:1453:LEU:HD21	7:G:18:PHE:CA	2.34	0.58
2:B:159:GLY:HA2	2:B:447:THR:OG1	2.02	0.58
2:B:745:PRO:C	2:B:747:MET:H	2.12	0.58
2:B:846:ILE:HG23	2:B:974:PRO:CG	2.33	0.58
5:E:175:PRO:O	5:E:211:ARG:HA	2.03	0.58
12:L:63:THR:HG22	12:L:64:LYS:N	2.18	0.58
1:M:53:LEU:CD2	1:M:54:ASN:N	2.57	0.58
1:M:568:LYS:HD3	8:T:94:TYR:CD2	2.37	0.58
1:M:681:THR:HG23	2:N:726:ILE:CD1	2.32	0.58
1:M:1076:GLU:C	1:M:1078:ALA:H	2.10	0.58
1:M:1214:VAL:O	1:M:1218:ILE:HG13	2.03	0.58
1:M:1215:ALA:HA	1:M:1218:ILE:HD12	1.85	0.58
1:M:1439:MET:O	1:M:1440:GLY:C	2.46	0.58
2:N:405:LEU:HB3	2:N:459:TRP:CZ2	2.36	0.58
2:N:761:HIS:HB2	2:N:1024:ALA:HB2	1.85	0.58
3:O:119:ILE:CG1	3:O:121:VAL:HG22	2.32	0.58
7:S:89:ALA:CB	7:S:103:VAL:HG22	2.33	0.58
1:A:312:GLN:O	1:A:313:PRO:C	2.46	0.58
1:A:338:ARG:HG2	2:B:1132:GLU:OE1	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:346:VAL:CG1	2:B:1130:PHE:CB	2.78	0.58
1:A:448:GLN:HA	1:A:449:PRO:C	2.28	0.58
1:A:747:MET:HE1	2:B:1014:PRO:O	2.01	0.58
1:A:1268:ALA:O	1:A:1270:MET:N	2.36	0.58
2:B:770:GLN:HG2	2:B:983:ARG:O	2.02	0.58
2:B:821:GLN:NE2	2:B:851:PHE:H	1.98	0.58
5:E:156:SER:C	5:E:158:GLY:N	2.62	0.58
8:H:88:LEU:C	8:H:90:ASP:N	2.58	0.58
8:H:94:TYR:CE2	8:H:96:MET:HG3	2.38	0.58
1:M:75:ALA:CA	2:N:1116:ARG:NH1	2.65	0.58
1:M:402:GLY:C	1:M:436:HIS:CD2	2.80	0.58
1:M:493:PRO:HB3	1:M:502:LEU:CD1	2.31	0.58
1:M:576:LYS:HE2	1:M:616:GLY:O	2.03	0.58
1:M:791:ASP:OD2	9:U:87:GLN:HG3	2.03	0.58
2:N:270:GLN:CG	2:N:271:ASP:H	2.12	0.58
2:N:381:CYS:C	2:N:383:LEU:H	2.11	0.58
2:N:634:GLU:O	2:N:636:ASP:N	2.35	0.58
3:O:257:ASN:O	3:O:261:GLU:N	2.36	0.58
5:Q:107:GLY:HA3	5:Q:131:ILE:HG23	1.84	0.58
1:A:317:GLN:HB2	1:A:323:VAL:CG2	2.34	0.58
2:B:594:ARG:O	2:B:598:ARG:HG3	2.04	0.58
2:B:1202:LEU:HD23	2:B:1206:GLU:CG	2.33	0.58
3:C:251:LEU:O	3:C:251:LEU:HD12	2.02	0.58
8:H:40:LEU:HD22	8:H:122:MET:CE	2.33	0.58
1:M:243:PRO:HB3	2:N:1209:ALA:HB2	1.86	0.58
1:M:535:MET:O	1:M:575:GLY:HA3	2.02	0.58
1:M:1034:LEU:O	1:M:1038:ARG:HD3	2.02	0.58
1:M:1085:THR:HG23	1:M:1098:LEU:H	1.69	0.58
1:M:1371:MET:H	1:M:1371:MET:CE	2.16	0.58
2:N:86:ARG:HB3	2:N:87:PRO:HD2	1.85	0.58
2:N:157:HIS:C	2:N:158:ILE:HG13	2.28	0.58
3:O:47:LEU:CB	3:O:158:ILE:HG21	2.21	0.58
3:O:111:THR:O	3:O:147:LEU:HD23	2.04	0.58
4:P:65:LYS:C	4:P:67:ARG:H	2.12	0.58
1:A:95:PHE:O	1:A:99:ILE:HG13	2.03	0.58
1:A:316:LEU:HD23	1:A:322:PRO:HA	1.86	0.58
1:A:576:LYS:HE2	1:A:616:GLY:O	2.03	0.58
1:A:786:PRO:CG	2:B:700:ILE:HD12	2.34	0.58
2:B:278:PHE:CD1	2:B:289:ILE:HG23	2.39	0.58
3:C:189:THR:HG22	3:C:190:ASP:N	2.19	0.58
1:M:41:MET:CE	1:M:41:MET:H	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:63:ARG:HA	1:M:74:MET:HE2	1.84	0.58
1:M:95:PHE:O	1:M:99:ILE:HG13	2.03	0.58
1:M:1122:LEU:H	1:M:1122:LEU:HD13	1.67	0.58
1:M:1389:ARG:HG3	1:M:1406:GLU:HB3	1.86	0.58
2:N:116:TYR:HA	2:N:156:VAL:O	2.04	0.58
5:Q:175:PRO:O	5:Q:211:ARG:HA	2.03	0.58
12:X:63:THR:HG22	12:X:64:LYS:N	2.18	0.58
1:A:342:MET:CE	1:A:844:LYS:NZ	2.64	0.58
1:A:968:ASN:O	1:A:972:ILE:CG1	2.52	0.58
2:B:158:ILE:CG2	2:B:446:ILE:HD12	2.32	0.58
3:C:175:ALA:HB3	10:J:42:ARG:HH22	1.69	0.58
6:F:99:LEU:CD2	7:G:64:GLY:O	2.51	0.58
1:M:346:VAL:CG2	1:M:491:HIS:CE1	2.87	0.58
1:M:859:ASN:HD21	1:M:861:LEU:HB2	1.69	0.58
1:M:1154:ILE:HG13	9:U:44:TYR:HB3	1.85	0.58
1:M:1403:CYS:SG	1:M:1412:LEU:HD21	2.43	0.58
2:N:995:ARG:O	2:N:999:MET:HB2	2.03	0.58
5:Q:104:PHE:O	5:Q:105:SER:CB	2.52	0.58
10:V:46:ARG:HG2	10:V:46:ARG:NH1	2.17	0.58
2:B:634:GLU:O	2:B:636:ASP:N	2.35	0.58
2:B:1166:CYS:O	2:B:1168:LEU:N	2.35	0.58
8:H:36:ILE:HA	8:H:125:GLU:O	2.03	0.58
1:M:319:SER:H	2:N:464:LYS:CG	2.16	0.58
1:M:332:GLY:O	1:M:333:LYS:HB3	2.03	0.58
1:M:568:LYS:CB	8:T:95:VAL:H	2.16	0.58
1:M:591:ARG:HD3	1:M:605:GLY:HA2	1.84	0.58
1:M:1268:ALA:O	1:M:1270:MET:N	2.36	0.58
2:N:280:ALA:HA	2:N:323:LEU:HD12	1.86	0.58
1:A:519:LYS:HE2	1:A:625:SER:O	2.01	0.58
1:A:871:GLU:HB2	5:E:203:THR:HG21	1.86	0.58
1:A:1403:CYS:SG	1:A:1412:LEU:HD21	2.43	0.58
2:B:950:ASP:O	2:B:951:GLN:HB2	2.03	0.58
3:C:167:HIS:CE1	12:L:72:THR:HA	2.38	0.58
5:E:84:GLU:HB2	5:E:87:VAL:HG22	1.85	0.58
6:F:101:ILE:HD13	6:F:120:ILE:CG2	2.33	0.58
1:M:568:LYS:HB2	1:M:569:PRO:HD2	1.85	0.58
1:M:856:THR:CG2	1:M:858:ARG:HE	2.17	0.58
1:M:887:ILE:HG13	1:M:944:LEU:HB2	1.84	0.58
2:N:12:ILE:HD13	2:N:647:ILE:CG1	2.34	0.58
2:N:278:PHE:CD1	2:N:289:ILE:HG23	2.39	0.58
2:N:745:PRO:O	2:N:748:ILE:HG12	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:84:GLU:HB2	5:Q:87:VAL:HG22	1.84	0.58
1:A:984:THR:H	1:A:987:GLU:CG	2.16	0.58
1:A:1016:ALA:C	1:A:1017:THR:HG23	2.29	0.58
2:B:216:VAL:HG12	2:B:229:ALA:HB2	1.86	0.58
2:B:650:GLU:O	2:B:654:LYS:HB2	2.03	0.58
9:I:64:GLN:O	9:I:66:PRO:HD3	2.04	0.58
1:M:786:PRO:CG	2:N:700:ILE:HD12	2.34	0.58
1:M:926:LEU:HD13	1:M:985:ILE:HD12	1.85	0.58
2:N:1096:ARG:HD2	2:N:1097:HIS:ND1	2.19	0.58
2:N:1148:LYS:O	2:N:1153:GLU:OE1	2.22	0.58
1:A:55:ASP:N	1:A:56:PRO:CD	2.66	0.58
1:A:105:CYS:O	1:A:114:LEU:HG	2.04	0.58
1:A:831:LYS:O	1:A:835:THR:HB	2.02	0.58
1:A:859:ASN:HD21	1:A:861:LEU:HB2	1.69	0.58
1:A:898:TYR:CE2	1:A:1032:ARG:HD2	2.39	0.58
1:A:1085:THR:HG21	1:A:1097:THR:HA	1.85	0.58
1:A:1154:ILE:HG13	9:I:44:TYR:HB3	1.85	0.58
2:B:290:LEU:N	2:B:290:LEU:CD2	2.67	0.58
2:B:639:LYS:O	2:B:640:ASP:CB	2.52	0.58
2:B:681:LEU:O	2:B:687:ILE:CG2	2.52	0.58
2:B:955:THR:CG2	2:B:956:THR:N	2.65	0.58
1:M:525:VAL:HG12	1:M:526:GLN:H	1.67	0.58
1:M:984:THR:H	1:M:987:GLU:CG	2.16	0.58
2:N:596:LEU:CD1	2:N:601:ALA:HB3	2.32	0.58
2:N:639:LYS:O	2:N:640:ASP:CB	2.52	0.58
1:A:41:MET:CE	1:A:41:MET:H	2.17	0.57
1:A:100:LYS:O	1:A:104:GLU:HG3	2.04	0.57
1:A:105:CYS:SG	1:A:139:TRP:HA	2.44	0.57
1:A:353:VAL:O	1:A:468:THR:HB	2.04	0.57
1:A:1085:THR:HG23	1:A:1098:LEU:H	1.69	0.57
1:A:1316:LEU:O	1:A:1318:GLU:N	2.36	0.57
1:A:1445:ASP:OD1	7:G:60:ARG:CD	2.52	0.57
1:A:1453:LEU:HD21	7:G:18:PHE:HA	1.85	0.57
2:B:509:ASN:N	2:B:509:ASN:ND2	2.43	0.57
2:B:770:GLN:CD	2:B:983:ARG:HA	2.28	0.57
2:B:976:ILE:O	2:B:976:ILE:HG22	2.04	0.57
5:E:104:PHE:O	5:E:105:SER:CB	2.52	0.57
1:M:42:ASP:HB3	1:M:45:ARG:H	1.68	0.57
1:M:55:ASP:N	1:M:56:PRO:CD	2.66	0.57
1:M:968:ASN:O	1:M:972:ILE:CG1	2.51	0.57
1:M:1016:ALA:C	1:M:1017:THR:HG23	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1037:PHE:O	1:M:1039:LEU:N	2.37	0.57
2:N:396:LYS:HE3	2:N:693:GLU:OE2	2.04	0.57
2:N:650:GLU:O	2:N:654:LYS:HB2	2.03	0.57
2:N:770:GLN:CD	2:N:983:ARG:HA	2.28	0.57
2:N:857:ARG:HG2	2:N:859:TYR:CE1	2.38	0.57
2:N:882:THR:HG22	2:N:884:ARG:N	2.19	0.57
2:N:1207:LEU:HD13	2:N:1212:ILE:HG21	1.86	0.57
3:O:148:ARG:HG2	3:O:149:ASN:N	2.19	0.57
1:A:14:VAL:H	1:A:1435:GLN:HE22	1.51	0.57
1:A:39:GLU:O	1:A:53:LEU:HB3	2.04	0.57
1:A:107:CYS:N	1:A:114:LEU:HD21	2.20	0.57
1:A:333:LYS:N	1:A:338:ARG:HB3	2.06	0.57
1:A:447:ARG:HB3	1:A:479:TYR:HB3	1.86	0.57
1:A:493:PRO:HB3	1:A:502:LEU:CD1	2.31	0.57
1:A:856:THR:CG2	1:A:858:ARG:HE	2.17	0.57
1:A:887:ILE:HG13	1:A:944:LEU:HB2	1.84	0.57
1:A:911:PRO:N	1:A:917:ALA:HB1	2.19	0.57
4:D:38:GLN:HB2	7:G:5:LYS:NZ	2.19	0.57
6:F:100:GLN:HE21	7:G:66:GLY:HA3	1.69	0.57
1:M:105:CYS:SG	1:M:139:TRP:HA	2.44	0.57
1:M:317:GLN:HB2	1:M:323:VAL:CG2	2.34	0.57
1:M:353:VAL:O	1:M:468:THR:HB	2.04	0.57
1:M:505:LEU:CD1	6:R:91:ALA:CB	2.74	0.57
1:M:1040:ASN:CG	1:M:1043:ALA:H	2.12	0.57
1:M:1316:LEU:O	1:M:1318:GLU:N	2.36	0.57
2:N:290:LEU:N	2:N:290:LEU:CD2	2.67	0.57
2:N:621:THR:O	2:N:622:ASP:O	2.21	0.57
3:O:226:ASN:O	3:O:227:ARG:HB2	2.03	0.57
5:Q:156:SER:C	5:Q:158:GLY:N	2.62	0.57
8:T:12:VAL:HG21	8:T:53:ASP:HB2	1.85	0.57
1:A:76:GLU:OE2	2:B:1159:ARG:NH1	2.38	0.57
1:A:568:LYS:HB2	1:A:569:PRO:HD2	1.85	0.57
1:A:1166:GLU:C	1:A:1168:ASP:H	2.12	0.57
1:A:1316:LEU:HD23	1:A:1341:VAL:CG2	2.34	0.57
2:B:369:PHE:HB3	2:B:579:TRP:CZ3	2.38	0.57
2:B:637:GLU:OE2	2:B:639:LYS:HB2	2.04	0.57
2:B:745:PRO:O	2:B:748:ILE:HG12	2.04	0.57
1:M:871:GLU:HB2	5:Q:203:THR:HG21	1.86	0.57
1:M:1118:LEU:N	1:M:1311:THR:CG2	2.64	0.57
1:M:1257:ALA:O	1:M:1258:GLU:HB2	2.04	0.57
2:N:82:ILE:HG13	2:N:116:TYR:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:854:ASP:O	1:A:1002:LEU:HD21	2.04	0.57
1:A:1040:ASN:CG	1:A:1043:ALA:H	2.12	0.57
2:B:157:HIS:C	2:B:158:ILE:HG13	2.28	0.57
2:B:612:ILE:C	2:B:614:GLU:H	2.12	0.57
2:B:834:ASN:HB3	2:B:840:ILE:HG13	1.86	0.57
1:M:100:LYS:O	1:M:104:GLU:HG3	2.04	0.57
1:M:105:CYS:O	1:M:114:LEU:HG	2.04	0.57
1:M:316:LEU:HD23	1:M:322:PRO:HA	1.86	0.57
1:M:318:LYS:O	1:M:319:SER:CB	2.52	0.57
1:M:739:LYS:CB	1:M:741:LEU:HD23	2.26	0.57
1:M:1445:ASP:OD2	6:R:137:TYR:CZ	2.57	0.57
2:N:633:VAL:O	2:N:634:GLU:O	2.23	0.57
9:U:95:THR:HG22	9:U:96:ASN:N	2.15	0.57
2:B:12:ILE:HD13	2:B:647:ILE:CG1	2.34	0.57
2:B:305:MET:HE3	2:B:379:LEU:CD2	2.32	0.57
2:B:545:GLU:C	2:B:547:ILE:H	2.13	0.57
2:B:593:MET:O	2:B:602:ILE:HD11	2.04	0.57
2:B:831:SER:HB3	2:B:994:TYR:OH	2.05	0.57
2:B:995:ARG:O	2:B:999:MET:HB2	2.03	0.57
3:C:38:ALA:CA	3:C:164:ALA:HB3	2.35	0.57
6:F:100:GLN:NE2	7:G:66:GLY:CA	2.65	0.57
11:K:10:PHE:N	11:K:10:PHE:CD2	2.72	0.57
1:M:225:PHE:CD1	1:M:232:PRO:HG3	2.39	0.57
1:M:772:GLU:C	1:M:1086:PHE:CE2	2.82	0.57
1:M:801:VAL:CG1	1:M:809:LEU:HG	2.34	0.57
1:M:860:SER:HB3	1:M:1426:GLY:HA2	1.87	0.57
1:M:1210:THR:O	1:M:1214:VAL:HG23	2.05	0.57
2:N:681:LEU:O	2:N:687:ILE:CG2	2.52	0.57
2:N:758:PHE:CE1	2:N:1027:ILE:HG22	2.39	0.57
2:N:892:LYS:O	2:N:899:ILE:HG23	2.05	0.57
3:O:38:ALA:CA	3:O:164:ALA:HB3	2.35	0.57
5:Q:77:LEU:C	5:Q:77:LEU:HD23	2.29	0.57
1:A:317:GLN:OE1	1:A:321:ARG:HD3	2.05	0.57
1:A:801:VAL:HA	1:A:813:GLU:CG	2.33	0.57
1:A:1016:ALA:C	1:A:1017:THR:CG2	2.77	0.57
1:A:1037:PHE:O	1:A:1039:LEU:N	2.37	0.57
2:B:758:PHE:CE1	2:B:1027:ILE:HG22	2.40	0.57
2:B:860:MET:CG	2:B:965:LYS:HG2	2.35	0.57
2:B:882:THR:CG2	2:B:884:ARG:HB2	2.35	0.57
2:B:1116:ARG:CD	2:B:1198:TYR:CE1	2.88	0.57
5:E:77:LEU:HD23	5:E:77:LEU:C	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:119:LEU:HD11	7:G:130:TYR:HB3	1.87	0.57
8:H:98:GLY:HA3	8:H:117:PHE:HA	1.86	0.57
10:J:1:MET:H1	10:J:55:LEU:N	2.00	0.57
1:M:107:CYS:N	1:M:114:LEU:HD21	2.20	0.57
1:M:312:GLN:O	1:M:313:PRO:C	2.46	0.57
1:M:590:GLN:HG2	1:M:607:LEU:HD13	1.87	0.57
1:M:854:ASP:O	1:M:1002:LEU:HD21	2.04	0.57
1:M:1445:ASP:HB2	6:R:137:TYR:HE1	1.67	0.57
2:N:567:HIS:HA	2:N:584:ARG:NH2	2.18	0.57
2:N:586:PRO:HG2	2:N:610:ARG:NH2	2.20	0.57
2:N:798:TYR:CD1	10:V:4:PRO:HG3	2.39	0.57
2:N:860:MET:CG	2:N:965:LYS:HG2	2.35	0.57
8:T:40:LEU:HD22	8:T:122:MET:CE	2.33	0.57
2:B:86:ARG:C	2:B:113:SER:HB3	2.30	0.57
4:D:120:THR:O	4:D:124:VAL:HG23	2.05	0.57
8:H:81:PRO:O	8:H:83:PRO:N	2.38	0.57
1:M:317:GLN:OE1	1:M:321:ARG:HD3	2.05	0.57
1:M:770:MET:CG	1:M:771:VAL:N	2.68	0.57
1:M:1166:GLU:C	1:M:1168:ASP:H	2.12	0.57
2:N:950:ASP:O	2:N:951:GLN:HB2	2.03	0.57
4:P:50:ALA:HB1	4:P:143:ALA:HB2	1.86	0.57
5:Q:120:ASN:C	5:Q:122:MET:H	2.13	0.57
1:A:144:THR:O	1:A:146:MET:HE2	2.04	0.57
1:A:225:PHE:CD1	1:A:232:PRO:HG3	2.39	0.57
1:A:770:MET:CG	1:A:771:VAL:N	2.68	0.57
1:A:1210:THR:O	1:A:1214:VAL:HG23	2.04	0.57
1:A:1319:VAL:O	1:A:1319:VAL:HG12	2.04	0.57
2:B:82:ILE:HG13	2:B:116:TYR:O	2.05	0.57
2:B:116:TYR:HA	2:B:156:VAL:O	2.04	0.57
2:B:630:LEU:HD21	2:B:742:GLU:OE2	2.05	0.57
2:B:633:VAL:O	2:B:634:GLU:O	2.23	0.57
2:B:945:GLU:O	2:B:946:ASN:HB3	2.04	0.57
2:B:1096:ARG:HD2	2:B:1097:HIS:ND1	2.19	0.57
2:B:1182:CYS:O	2:B:1182:CYS:SG	2.63	0.57
2:B:1202:LEU:O	2:B:1206:GLU:HG3	2.05	0.57
4:D:50:ALA:HB1	4:D:143:ALA:HB2	1.86	0.57
7:G:49:LEU:HD21	7:G:77:VAL:HG23	1.87	0.57
8:H:101:TYR:CE2	8:H:116:SER:HB2	2.40	0.57
9:I:95:THR:HG22	9:I:96:ASN:N	2.15	0.57
1:M:14:VAL:H	1:M:1435:GLN:HE22	1.51	0.57
1:M:316:LEU:CD2	1:M:322:PRO:HA	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:447:ARG:HB3	1:M:479:TYR:HB3	1.86	0.57
1:M:504:GLN:HE21	6:R:90:ARG:HH21	1.52	0.57
1:M:901:ASP:HA	1:M:927:GLN:HE22	1.69	0.57
2:N:216:VAL:HG12	2:N:229:ALA:HB2	1.86	0.57
2:N:480:THR:HG22	2:N:481:TYR:N	2.19	0.57
2:N:776:GLN:O	2:N:1095:LEU:HA	2.05	0.57
2:N:864:LYS:N	2:N:872:GLU:OE1	2.38	0.57
1:A:42:ASP:HB3	1:A:45:ARG:H	1.68	0.57
1:A:225:PHE:CE2	1:A:232:PRO:HA	2.40	0.57
1:A:801:VAL:HG13	1:A:813:GLU:HB3	1.86	0.57
1:A:901:ASP:HA	1:A:927:GLN:HE22	1.70	0.57
1:A:941:ARG:HG2	1:A:941:ARG:HH11	1.70	0.57
1:A:1085:THR:HG22	1:A:1085:THR:O	2.05	0.57
3:C:148:ARG:HG2	3:C:149:ASN:N	2.19	0.57
7:G:113:ARG:C	7:G:114:LEU:HD12	2.30	0.57
8:H:94:TYR:HE2	8:H:96:MET:CG	2.18	0.57
10:J:1:MET:H3	10:J:55:LEU:H	1.51	0.57
1:M:41:MET:O	1:M:42:ASP:C	2.47	0.57
1:M:898:TYR:CE2	1:M:1032:ARG:HD2	2.40	0.57
1:M:1016:ALA:C	1:M:1017:THR:CG2	2.77	0.57
1:M:1226:LEU:HD11	1:M:1242:CYS:HB2	1.87	0.57
2:N:594:ARG:O	2:N:598:ARG:HG3	2.04	0.57
2:N:821:GLN:NE2	2:N:851:PHE:H	1.98	0.57
2:N:839:MET:CE	2:N:980:PHE:HB2	2.35	0.57
9:U:64:GLN:O	9:U:66:PRO:HD3	2.04	0.57
11:W:10:PHE:CD2	11:W:10:PHE:N	2.72	0.57
1:A:243:PRO:HB3	2:B:1209:ALA:HB2	1.85	0.56
1:A:1439:MET:O	1:A:1440:GLY:C	2.46	0.56
2:B:324:ASP:O	2:B:325:PHE:C	2.48	0.56
2:B:586:PRO:HG2	2:B:610:ARG:NH2	2.19	0.56
2:B:839:MET:CE	2:B:980:PHE:HB2	2.35	0.56
2:B:864:LYS:N	2:B:872:GLU:OE1	2.38	0.56
2:B:1180:PHE:HB3	2:B:1191:ILE:CD1	2.32	0.56
10:J:52:HIS:CD2	10:J:53:VAL:N	2.73	0.56
1:M:265:HIS:C	1:M:267:LEU:H	2.13	0.56
1:M:1268:ALA:C	1:M:1270:MET:N	2.61	0.56
2:N:612:ILE:C	2:N:614:GLU:H	2.12	0.56
4:P:38:GLN:HB2	7:S:5:LYS:NZ	2.20	0.56
7:S:113:ARG:C	7:S:114:LEU:HD12	2.30	0.56
9:U:56:ALA:CB	9:U:89:GLN:HG3	2.35	0.56
10:V:1:MET:H3	10:V:55:LEU:H	1.47	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:318:LYS:O	1:A:319:SER:CB	2.52	0.56
1:A:591:ARG:HB3	1:A:606:MET:N	2.20	0.56
2:B:480:THR:HG22	2:B:481:TYR:N	2.19	0.56
2:B:596:LEU:CD1	2:B:601:ALA:HB3	2.32	0.56
7:G:89:ALA:CB	7:G:103:VAL:HG22	2.34	0.56
10:J:47:ARG:HE	10:J:48:MET:CE	2.18	0.56
2:N:846:ILE:HG23	2:N:974:PRO:CG	2.33	0.56
3:O:189:THR:HG22	3:O:190:ASP:N	2.19	0.56
8:T:15:VAL:HG22	8:T:26:ILE:CD1	2.35	0.56
10:V:52:HIS:CD2	10:V:53:VAL:N	2.73	0.56
1:A:316:LEU:CD2	1:A:322:PRO:HA	2.35	0.56
1:A:710:THR:HB	1:A:713:GLU:CG	2.31	0.56
1:A:788:PHE:HE1	1:A:797:SER:HA	1.69	0.56
1:A:1226:LEU:HD11	1:A:1242:CYS:HB2	1.87	0.56
2:B:280:ALA:HA	2:B:323:LEU:HD12	1.86	0.56
2:B:393:HIS:O	2:B:395:GLY:N	2.39	0.56
2:B:798:TYR:CD1	10:J:4:PRO:HG3	2.39	0.56
2:B:811:TYR:N	2:B:811:TYR:CD1	2.73	0.56
2:B:999:MET:HA	2:B:999:MET:HE3	1.87	0.56
2:B:1117:GLN:NE2	2:B:1199:ALA:HB2	2.19	0.56
3:C:111:THR:O	3:C:147:LEU:HD23	2.04	0.56
3:C:257:ASN:O	3:C:261:GLU:N	2.36	0.56
9:I:106:CYS:SG	9:I:108:LYS:HB2	2.46	0.56
1:M:116:ASP:OD2	1:M:165:ARG:HD2	2.05	0.56
1:M:443:VAL:CG2	1:M:490:LEU:HD11	2.36	0.56
1:M:848:ASP:HB3	1:M:1427:VAL:CG2	2.30	0.56
1:M:941:ARG:HG2	1:M:941:ARG:HH11	1.70	0.56
1:M:1085:THR:O	1:M:1085:THR:HG22	2.05	0.56
2:N:514:LEU:HB3	2:N:626:VAL:CG1	2.34	0.56
2:N:824:ILE:HG22	2:N:1087:PHE:CE2	2.40	0.56
2:N:945:GLU:O	2:N:946:ASN:HB3	2.04	0.56
2:N:1182:CYS:O	2:N:1182:CYS:SG	2.63	0.56
3:O:113:VAL:O	3:O:144:LEU:HB2	2.05	0.56
5:Q:25:ARG:NH2	5:Q:132:GLU:OE1	2.37	0.56
5:Q:174:LEU:HD23	5:Q:175:PRO:CD	2.28	0.56
6:R:93:ILE:HD11	6:R:134:ILE:HD11	1.87	0.56
8:T:81:PRO:O	8:T:83:PRO:N	2.38	0.56
1:A:50:GLU:C	1:A:52:GLY:N	2.64	0.56
1:A:568:LYS:CB	8:H:95:VAL:H	2.16	0.56
2:B:304:GLU:O	2:B:307:LYS:HB2	2.06	0.56
2:B:824:ILE:HG12	10:J:47:ARG:HH12	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:882:THR:HG21	2:B:935:ARG:HA	1.87	0.56
2:B:1132:GLU:O	2:B:1135:ARG:HB3	2.05	0.56
3:C:115:SER:HB3	3:C:142:ILE:CG1	2.35	0.56
9:I:56:ALA:CB	9:I:89:GLN:HG3	2.35	0.56
1:M:144:THR:O	1:M:146:MET:HE2	2.05	0.56
1:M:225:PHE:CE2	1:M:232:PRO:HA	2.40	0.56
1:M:447:ARG:CD	1:M:481:ALA:HB2	2.35	0.56
1:M:593:ASP:H	1:M:596:ASN:CG	2.13	0.56
1:M:911:PRO:N	1:M:917:ALA:HB1	2.19	0.56
1:M:1316:LEU:HD23	1:M:1341:VAL:CG2	2.34	0.56
1:M:1319:VAL:O	1:M:1319:VAL:HG12	2.04	0.56
2:N:393:HIS:O	2:N:395:GLY:N	2.39	0.56
2:N:637:GLU:OE2	2:N:639:LYS:HB2	2.04	0.56
2:N:745:PRO:C	2:N:747:MET:H	2.12	0.56
2:N:976:ILE:HG22	2:N:976:ILE:O	2.04	0.56
2:N:1162:VAL:CG1	2:N:1163:CYS:N	2.68	0.56
7:S:49:LEU:N	7:S:49:LEU:HD23	2.21	0.56
8:T:88:LEU:C	8:T:90:ASP:N	2.58	0.56
8:T:101:TYR:HE2	8:T:116:SER:HB2	1.71	0.56
10:V:10:CYS:SG	10:V:42:ARG:NH2	2.79	0.56
2:B:892:LYS:O	2:B:899:ILE:HG23	2.05	0.56
7:G:13:LEU:HD22	7:G:14:HIS:O	2.06	0.56
10:J:10:CYS:SG	10:J:42:ARG:NH2	2.79	0.56
12:L:30:LYS:HG3	12:L:41:SER:CB	2.36	0.56
1:M:76:GLU:OE2	2:N:1159:ARG:NH1	2.38	0.56
1:M:671:ILE:HG23	1:M:806:LEU:CD2	2.36	0.56
2:N:224:PRO:HG2	2:N:225:ILE:HD12	1.85	0.56
2:N:882:THR:CG2	2:N:884:ARG:HB2	2.35	0.56
11:W:42:LEU:O	11:W:42:LEU:HD23	2.06	0.56
12:X:30:LYS:HG3	12:X:41:SER:CB	2.36	0.56
1:A:858:ARG:CZ	6:F:139:PRO:HG3	2.36	0.56
2:B:882:THR:HG22	2:B:884:ARG:N	2.20	0.56
4:D:141:GLU:O	4:D:143:ALA:N	2.39	0.56
8:H:15:VAL:HG22	8:H:26:ILE:CD1	2.35	0.56
1:M:346:VAL:HG11	2:N:1130:PHE:CG	2.31	0.56
1:M:1215:ALA:CB	1:M:1230:TRP:CZ3	2.88	0.56
2:N:551:LEU:C	2:N:553:GLU:N	2.63	0.56
2:N:744:HIS:CG	2:N:745:PRO:HD2	2.41	0.56
2:N:1103:ILE:HG23	2:N:1103:ILE:O	2.06	0.56
2:N:1115:THR:O	2:N:1198:TYR:CG	2.59	0.56
3:O:213:PRO:O	3:O:214:LYS:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:MET:O	1:A:42:ASP:C	2.47	0.56
1:A:802:GLU:N	1:A:813:GLU:OE1	2.38	0.56
1:A:842:LEU:O	1:A:846:LEU:HG	2.06	0.56
1:A:1215:ALA:CB	1:A:1230:TRP:CZ3	2.89	0.56
1:A:1286:TYR:CG	1:A:1287:MET:N	2.74	0.56
1:A:1339:LEU:CB	1:A:1347:THR:CB	2.83	0.56
1:A:1447:MET:HA	7:G:60:ARG:CA	2.32	0.56
2:B:549:ASN:O	2:B:551:LEU:N	2.39	0.56
5:E:47:ASP:CG	5:E:48:SER:N	2.63	0.56
7:G:49:LEU:N	7:G:49:LEU:HD23	2.21	0.56
11:K:42:LEU:O	11:K:42:LEU:HD23	2.05	0.56
1:M:346:VAL:CG2	1:M:491:HIS:HE1	2.19	0.56
1:M:406:VAL:HG12	1:M:414:ILE:HD12	1.88	0.56
1:M:547:VAL:HG21	1:M:573:TRP:CE3	2.41	0.56
1:M:591:ARG:HB3	1:M:606:MET:N	2.20	0.56
1:M:788:PHE:HE1	1:M:797:SER:HA	1.69	0.56
2:N:101:PRO:HG3	2:N:172:LEU:HD21	1.88	0.56
2:N:811:TYR:N	2:N:811:TYR:CD1	2.73	0.56
2:N:834:ASN:HB3	2:N:840:ILE:HG13	1.86	0.56
2:N:918:ILE:HD12	2:N:935:ARG:NH1	2.19	0.56
2:N:1005:GLY:O	2:N:1006:ILE:C	2.49	0.56
2:N:1132:GLU:O	2:N:1135:ARG:HB3	2.05	0.56
2:N:1202:LEU:O	2:N:1206:GLU:HG3	2.05	0.56
9:U:106:CYS:SG	9:U:108:LYS:HB2	2.46	0.56
1:A:231:ARG:HG3	1:A:234:TRP:CH2	2.41	0.56
1:A:265:HIS:C	1:A:267:LEU:H	2.13	0.56
1:A:471:LEU:C	1:A:471:LEU:HD12	2.31	0.56
1:A:493:PRO:HB2	1:A:498:THR:HG22	1.88	0.56
1:A:1257:ALA:O	1:A:1258:GLU:HB2	2.04	0.56
2:B:1207:LEU:HD13	2:B:1212:ILE:HG21	1.87	0.56
4:D:65:LYS:C	4:D:67:ARG:H	2.12	0.56
5:E:146:HIS:HB3	5:E:149:VAL:CG2	2.33	0.56
7:G:1:MET:O	7:G:1:MET:SD	2.64	0.56
1:M:39:GLU:O	1:M:53:LEU:HB3	2.05	0.56
1:M:50:GLU:C	1:M:52:GLY:N	2.64	0.56
1:M:169:GLY:O	1:M:170:ASN:C	2.49	0.56
1:M:320:GLY:HA3	2:N:464:LYS:CA	2.14	0.56
1:M:1393:ASN:OD1	1:M:1402:ARG:HA	2.05	0.56
2:N:824:ILE:HG12	10:V:47:ARG:HH12	1.69	0.56
2:N:999:MET:HA	2:N:999:MET:HE3	1.87	0.56
4:P:53:LEU:CD2	4:P:108:TYR:HE2	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:120:THR:O	4:P:124:VAL:HG23	2.05	0.56
1:A:73:GLY:O	1:A:75:ALA:N	2.38	0.56
1:A:790:LYS:HG3	9:I:67:THR:O	2.06	0.56
2:B:1005:GLY:O	2:B:1006:ILE:C	2.49	0.56
2:B:1138:MET:HE3	2:B:1143:ALA:HB3	1.88	0.56
5:E:120:ASN:C	5:E:122:MET:H	2.13	0.56
7:G:34:VAL:CG1	7:G:45:ILE:HG21	2.29	0.56
1:M:69:THR:O	1:M:71:GLY:N	2.35	0.56
1:M:392:TYR:HA	1:M:395:ASN:HD22	1.71	0.56
1:M:786:PRO:HB2	2:N:700:ILE:HD12	1.88	0.56
1:M:1166:GLU:O	1:M:1168:ASP:N	2.39	0.56
2:N:324:ASP:O	2:N:325:PHE:C	2.48	0.56
4:P:141:GLU:O	4:P:143:ALA:N	2.39	0.56
7:S:1:MET:O	7:S:1:MET:SD	2.64	0.56
1:A:116:ASP:OD2	1:A:165:ARG:HD2	2.06	0.56
1:A:200:ARG:HH11	1:A:200:ARG:CB	2.19	0.56
1:A:406:VAL:HG12	1:A:414:ILE:HD12	1.88	0.56
1:A:443:VAL:CG2	1:A:490:LEU:HD11	2.36	0.56
1:A:941:ARG:O	1:A:945:ARG:HG3	2.06	0.56
2:B:514:LEU:HB3	2:B:626:VAL:CG1	2.34	0.56
2:B:519:GLU:HA	2:B:771:SER:HB3	1.88	0.56
2:B:744:HIS:CG	2:B:745:PRO:HD2	2.41	0.56
2:B:776:GLN:O	2:B:1095:LEU:HA	2.05	0.56
2:B:889:THR:C	2:B:910:ILE:HG22	2.28	0.56
2:B:1029:CYS:SG	2:B:1088:GLY:HA3	2.45	0.56
6:F:93:ILE:HD11	6:F:134:ILE:HD11	1.87	0.56
9:I:106:CYS:O	9:I:107:LYS:CB	2.54	0.56
1:M:73:GLY:O	1:M:75:ALA:N	2.38	0.56
1:M:459:HIS:CE1	1:M:508:VAL:HG21	2.41	0.56
1:M:538:ARG:HD2	8:T:20:TYR:HE1	1.71	0.56
1:M:896:LYS:O	1:M:896:LYS:HG2	2.06	0.56
2:N:86:ARG:C	2:N:113:SER:HB3	2.30	0.56
2:N:630:LEU:HD21	2:N:742:GLU:OE2	2.05	0.56
2:N:1004:GLU:HB2	2:N:1006:ILE:CG1	2.36	0.56
2:N:1029:CYS:SG	2:N:1088:GLY:HA3	2.45	0.56
8:T:101:TYR:CE2	8:T:116:SER:HB2	2.40	0.56
10:V:47:ARG:HE	10:V:48:MET:CE	2.18	0.56
1:A:538:ARG:HD2	8:H:20:TYR:HE1	1.71	0.55
1:A:739:LYS:CB	1:A:741:LEU:HD23	2.26	0.55
1:A:1412:LEU:O	1:A:1415:ALA:HB3	2.05	0.55
2:B:606:VAL:HG13	2:B:620:PHE:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1117:GLN:HE21	2:B:1199:ALA:HB2	1.70	0.55
4:D:53:LEU:CD2	4:D:108:TYR:HE2	2.18	0.55
8:H:142:LEU:HD12	8:H:142:LEU:N	2.20	0.55
12:L:40:PHE:O	12:L:41:SER:CB	2.53	0.55
1:M:493:PRO:HB2	1:M:498:THR:HG22	1.88	0.55
1:M:542:ILE:HG22	1:M:547:VAL:HG23	1.88	0.55
2:N:545:GLU:C	2:N:547:ILE:H	2.13	0.55
3:O:74:GLU:O	3:O:246:ARG:NH2	2.30	0.55
7:S:145:LEU:CG	7:S:146:LYS:N	2.69	0.55
8:T:94:TYR:HE2	8:T:96:MET:CG	2.18	0.55
1:A:790:LYS:HE3	9:I:67:THR:OG1	2.07	0.55
1:A:1344:ILE:HD12	1:A:1382:GLY:O	2.06	0.55
2:B:101:PRO:HG3	2:B:172:LEU:HD21	1.88	0.55
2:B:1129:ARG:HG2	2:B:1131:GLY:N	2.17	0.55
2:B:1162:VAL:CG1	2:B:1163:CYS:N	2.68	0.55
3:C:113:VAL:O	3:C:144:LEU:HB2	2.05	0.55
1:M:102:VAL:HG11	1:M:212:PHE:CE2	2.41	0.55
1:M:231:ARG:HG3	1:M:234:TRP:CH2	2.41	0.55
1:M:336:ARG:CA	1:M:340:ASN:HD22	2.15	0.55
1:M:790:LYS:HG3	9:U:67:THR:O	2.06	0.55
2:N:593:MET:O	2:N:602:ILE:HD11	2.05	0.55
2:N:831:SER:HB3	2:N:994:TYR:OH	2.05	0.55
8:T:142:LEU:HD12	8:T:142:LEU:N	2.20	0.55
9:U:34:TYR:CD2	9:U:34:TYR:C	2.84	0.55
1:A:810:THR:O	1:A:811:PRO:C	2.50	0.55
2:B:567:HIS:HA	2:B:584:ARG:NH2	2.18	0.55
2:B:1072:MET:HE2	2:B:1087:PHE:HB2	1.89	0.55
3:C:213:PRO:O	3:C:214:LYS:HB2	2.06	0.55
4:D:41:HIS:HB2	7:G:73:LYS:HZ2	1.71	0.55
5:E:25:ARG:NH2	5:E:132:GLU:OE1	2.37	0.55
7:G:1:MET:CE	7:G:80:LYS:O	2.54	0.55
12:L:63:THR:HG22	12:L:64:LYS:H	1.71	0.55
1:M:56:PRO:O	1:M:57:LYS:CG	2.54	0.55
1:M:107:CYS:HA	1:M:172:GLN:OE1	2.06	0.55
1:M:320:GLY:N	2:N:464:LYS:HG2	2.20	0.55
1:M:858:ARG:CZ	6:R:139:PRO:HG3	2.36	0.55
1:M:911:PRO:CB	1:M:917:ALA:HB1	2.22	0.55
1:M:1412:LEU:O	1:M:1415:ALA:HB3	2.05	0.55
2:N:606:VAL:HG13	2:N:620:PHE:O	2.06	0.55
2:N:882:THR:HG21	2:N:935:ARG:HA	1.87	0.55
7:S:94:VAL:CG2	7:S:94:VAL:CA	2.78	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:X:63:THR:HG22	12:X:64:LYS:H	1.71	0.55
1:A:593:ASP:H	1:A:596:ASN:CG	2.14	0.55
1:A:786:PRO:HB2	2:B:700:ILE:HD12	1.88	0.55
1:A:989:ILE:CG1	1:A:990:HIS:H	2.18	0.55
2:B:12:ILE:CG2	2:B:652:ILE:HD11	2.36	0.55
2:B:279:ARG:HA	2:B:283:VAL:O	2.07	0.55
2:B:384:GLU:O	9:I:90:GLN:HA	2.07	0.55
2:B:789:MET:HE2	2:B:953:LEU:HD22	1.88	0.55
2:B:860:MET:HG3	2:B:965:LYS:HG2	1.89	0.55
2:B:1103:ILE:HG23	2:B:1103:ILE:O	2.06	0.55
3:C:32:LEU:HG	3:C:36:MET:HE2	1.89	0.55
3:C:74:GLU:O	3:C:246:ARG:NH2	2.30	0.55
3:C:161:LYS:O	3:C:170:TRP:NE1	2.40	0.55
8:H:62:SER:OG	8:H:63:LEU:HG	2.06	0.55
1:M:373:LYS:HA	1:M:436:HIS:CE1	2.42	0.55
1:M:591:ARG:HH22	1:M:621:LYS:HB3	1.68	0.55
1:M:956:TRP:HB3	1:M:957:PRO:HD2	1.88	0.55
2:N:549:ASN:O	2:N:551:LEU:N	2.39	0.55
2:N:637:GLU:HB2	2:N:641:ASN:O	2.05	0.55
2:N:1151:LEU:N	2:N:1151:LEU:CD1	2.70	0.55
3:O:161:LYS:O	3:O:170:TRP:NE1	2.40	0.55
4:P:54:SER:HB3	4:P:113:ALA:HB1	1.89	0.55
6:R:82:THR:HG22	6:R:84:TYR:N	2.10	0.55
12:X:40:PHE:O	12:X:41:SER:CB	2.54	0.55
1:A:56:PRO:O	1:A:57:LYS:CG	2.54	0.55
1:A:1281:GLY:O	1:A:1313:GLY:HA3	2.07	0.55
2:B:458:ASN:HD22	2:B:458:ASN:N	2.03	0.55
2:B:637:GLU:HB2	2:B:641:ASN:O	2.06	0.55
2:B:785:TYR:HA	2:B:788:ARG:HG3	1.89	0.55
6:F:92:ARG:HH21	7:G:63:PRO:HG3	1.71	0.55
9:I:74:GLU:O	9:I:74:GLU:HG3	2.06	0.55
1:M:790:LYS:HE3	9:U:67:THR:OG1	2.07	0.55
1:M:1286:TYR:CG	1:M:1287:MET:N	2.74	0.55
2:N:1072:MET:CE	2:N:1085:VAL:HB	2.22	0.55
2:N:1169:MET:HE2	2:N:1204:PHE:HB2	1.88	0.55
7:S:13:LEU:HD22	7:S:14:HIS:O	2.06	0.55
9:U:106:CYS:O	9:U:107:LYS:CB	2.54	0.55
11:W:65:HIS:HD2	11:W:67:LEU:H	1.54	0.55
1:A:102:VAL:HG11	1:A:212:PHE:CE2	2.41	0.55
1:A:333:LYS:O	1:A:334:GLU:CB	2.52	0.55
1:A:459:HIS:CE1	1:A:508:VAL:HG21	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:656:TYR:O	1:A:659:LEU:HB3	2.07	0.55
1:A:1122:LEU:CD1	1:A:1122:LEU:N	2.69	0.55
2:B:1178:ASN:O	2:B:1179:GLN:C	2.49	0.55
9:I:56:ALA:O	9:I:57:GLY:C	2.50	0.55
1:M:656:TYR:O	1:M:659:LEU:HB3	2.07	0.55
1:M:989:ILE:CG1	1:M:990:HIS:H	2.18	0.55
1:M:1148:VAL:HG11	1:M:1209:LEU:HD12	1.88	0.55
2:N:458:ASN:HD22	2:N:458:ASN:N	2.03	0.55
2:N:789:MET:HE2	2:N:953:LEU:HD22	1.88	0.55
7:S:49:LEU:HD21	7:S:77:VAL:HG23	1.88	0.55
1:A:12:ARG:HG3	2:B:1192:TYR:HD2	1.72	0.55
1:A:53:LEU:CD2	1:A:54:ASN:N	2.57	0.55
1:A:547:VAL:HG21	1:A:573:TRP:CE3	2.41	0.55
1:A:858:ARG:HA	1:A:865:ILE:HD12	1.89	0.55
1:A:896:LYS:HG2	1:A:896:LYS:O	2.06	0.55
2:B:871:VAL:HG12	2:B:872:GLU:N	2.22	0.55
2:B:1004:GLU:HB2	2:B:1006:ILE:CG1	2.35	0.55
2:B:1021:MET:O	2:B:1023:VAL:HG23	2.07	0.55
4:D:65:LYS:C	4:D:67:ARG:N	2.65	0.55
8:H:58:THR:HG22	8:H:59:LEU:H	1.72	0.55
1:M:130:ASP:O	1:M:132:LYS:N	2.40	0.55
1:M:148:CYS:O	1:M:169:GLY:HA2	2.07	0.55
1:M:601:PRO:C	1:M:603:ASP:H	2.15	0.55
1:M:941:ARG:O	1:M:945:ARG:HG3	2.06	0.55
1:M:1122:LEU:CD1	1:M:1122:LEU:N	2.69	0.55
2:N:1178:ASN:O	2:N:1179:GLN:C	2.49	0.55
2:N:1183:ARG:C	2:N:1185:CYS:H	2.15	0.55
8:T:58:THR:HG22	8:T:59:LEU:H	1.72	0.55
1:A:90:VAL:HG12	1:A:91:PHE:N	2.22	0.55
1:A:148:CYS:O	1:A:169:GLY:HA2	2.07	0.55
1:A:281:GLU:HG2	1:A:290:ILE:HD13	1.89	0.55
1:A:476:THR:CG2	1:A:477:SER:N	2.70	0.55
1:A:1075:GLY:O	1:A:1078:ALA:HB3	2.07	0.55
1:A:1453:LEU:O	7:G:19:GLY:O	2.25	0.55
2:B:206:GLN:HE22	2:B:492:ASN:CB	2.15	0.55
2:B:491:THR:HG22	2:B:530:LYS:N	2.20	0.55
2:B:755:ILE:CG2	2:B:809:MET:HE2	2.31	0.55
4:D:54:SER:HB3	4:D:113:ALA:HB1	1.89	0.55
8:H:101:TYR:HE2	8:H:116:SER:HB2	1.70	0.55
1:M:361:GLU:HB2	1:M:364:GLN:HG3	1.89	0.55
1:M:842:LEU:O	1:M:846:LEU:HG	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1163:THR:HG22	1:M:1164:VAL:H	1.72	0.55
1:M:1343:GLY:HA3	5:Q:183:VAL:HG23	1.89	0.55
1:M:1344:ILE:HD12	1:M:1382:GLY:O	2.06	0.55
2:N:1138:MET:HE3	2:N:1143:ALA:HB3	1.88	0.55
3:O:167:HIS:CD2	3:O:168:ALA:N	2.75	0.55
8:T:12:VAL:CG2	8:T:53:ASP:HB2	2.37	0.55
1:A:107:CYS:HA	1:A:172:GLN:OE1	2.06	0.55
1:A:590:GLN:HG2	1:A:607:LEU:HD13	1.87	0.55
1:A:591:ARG:HG3	1:A:591:ARG:NH1	2.21	0.55
1:A:801:VAL:HG11	1:A:809:LEU:HD11	1.89	0.55
1:A:956:TRP:HB3	1:A:957:PRO:HD2	1.88	0.55
1:A:1021:GLN:CG	1:A:1021:GLN:CA	2.76	0.55
3:C:212:PRO:HB3	3:C:213:PRO:HD2	1.89	0.55
5:E:21:MET:CE	5:E:25:ARG:HE	2.15	0.55
7:G:145:LEU:CG	7:G:146:LYS:N	2.69	0.55
1:M:12:ARG:HG3	2:N:1192:TYR:HD2	1.72	0.55
1:M:471:LEU:HD12	1:M:471:LEU:C	2.31	0.55
1:M:858:ARG:HA	1:M:865:ILE:HD12	1.89	0.55
1:M:1281:GLY:O	1:M:1313:GLY:HA3	2.07	0.55
2:N:12:ILE:CG2	2:N:652:ILE:HD11	2.36	0.55
2:N:279:ARG:HA	2:N:283:VAL:O	2.06	0.55
2:N:304:GLU:O	2:N:307:LYS:HB2	2.06	0.55
2:N:509:ASN:N	2:N:509:ASN:ND2	2.43	0.55
7:S:1:MET:CE	7:S:80:LYS:O	2.54	0.55
8:T:98:GLY:HA3	8:T:117:PHE:HA	1.87	0.55
9:U:74:GLU:HG3	9:U:74:GLU:O	2.06	0.55
1:A:130:ASP:O	1:A:132:LYS:N	2.40	0.55
1:A:336:ARG:CA	1:A:340:ASN:HD22	2.15	0.55
1:A:392:TYR:HA	1:A:395:ASN:HD22	1.71	0.55
1:A:1337:GLU:O	1:A:1340:SER:N	2.40	0.55
2:B:1079:LYS:HA	3:C:26:LEU:HD21	1.89	0.55
2:B:1115:THR:O	2:B:1116:ARG:CB	2.55	0.55
8:H:80:PRO:CB	8:H:81:PRO:CD	2.85	0.55
10:J:13:VAL:O	10:J:14:VAL:CG2	2.55	0.55
1:M:370:SER:HB3	11:W:2:ASN:HD21	1.72	0.55
1:M:418:TYR:O	1:M:419:HIS:C	2.50	0.55
1:M:591:ARG:HG3	1:M:591:ARG:NH1	2.21	0.55
1:M:854:ASP:CG	1:M:856:THR:HG22	2.32	0.55
2:N:286:ASP:H	9:U:12:ASN:ND2	2.05	0.55
2:N:550:PHE:HD2	2:N:550:PHE:O	1.90	0.55
2:N:704:PRO:HG2	2:N:705:GLU:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:889:THR:C	2:N:910:ILE:HG22	2.29	0.55
4:P:53:LEU:H	4:P:147:SER:HB3	1.72	0.55
9:U:5:ARG:HD3	9:U:36:GLU:OE2	2.06	0.55
11:W:29:ASN:O	11:W:76:GLN:HG3	2.07	0.55
1:A:715:PHE:O	1:A:719:VAL:HG23	2.07	0.54
1:A:1352:TYR:O	1:A:1355:ILE:HG22	2.07	0.54
1:A:1410:GLU:CD	1:A:1410:GLU:N	2.65	0.54
2:B:1007:VAL:HG22	2:B:1008:PRO:CD	2.27	0.54
7:G:14:HIS:HD2	7:G:16:SER:HB3	1.71	0.54
1:M:90:VAL:HG12	1:M:91:PHE:N	2.22	0.54
1:M:504:GLN:NE2	6:R:90:ARG:NH2	2.53	0.54
1:M:874:LEU:C	1:M:1060:VAL:HG23	2.32	0.54
2:N:1115:THR:O	2:N:1116:ARG:CB	2.55	0.54
7:S:114:LEU:HB3	7:S:162:SER:HB3	1.89	0.54
9:U:56:ALA:O	9:U:57:GLY:C	2.49	0.54
11:W:50:LEU:C	11:W:52:LEU:H	2.14	0.54
1:A:361:GLU:HB2	1:A:364:GLN:HG3	1.89	0.54
1:A:444:LEU:CD1	1:A:456:MET:HB3	2.27	0.54
1:A:542:ILE:HG22	1:A:547:VAL:HG23	1.88	0.54
1:A:934:TYR:O	1:A:938:VAL:HG23	2.06	0.54
2:B:202:VAL:CG2	2:B:476:LEU:HD13	2.36	0.54
2:B:824:ILE:HG22	2:B:1087:PHE:CE2	2.40	0.54
2:B:980:PHE:C	2:B:1095:LEU:HD13	2.32	0.54
7:G:94:VAL:CG1	7:G:94:VAL:CA	2.78	0.54
1:M:667:ILE:HD12	1:M:667:ILE:N	2.22	0.54
1:M:1339:LEU:CB	1:M:1347:THR:CB	2.83	0.54
2:N:231:ILE:O	2:N:231:ILE:HG23	2.07	0.54
2:N:556:MET:HE2	2:N:581:GLY:O	2.07	0.54
8:T:111:ILE:HG22	8:T:112:LYS:N	2.23	0.54
1:A:344:LYS:HE3	2:B:1151:LEU:CA	2.38	0.54
1:A:373:LYS:HA	1:A:436:HIS:CE1	2.42	0.54
1:A:671:ILE:HG23	1:A:806:LEU:CD2	2.36	0.54
1:A:787:HIS:HD2	2:B:700:ILE:HB	1.71	0.54
1:A:897:ARG:HD3	1:A:898:TYR:CE1	2.43	0.54
2:B:1151:LEU:N	2:B:1151:LEU:CD1	2.70	0.54
3:C:96:VAL:CG1	3:C:98:LEU:HD21	2.38	0.54
3:C:251:LEU:HD11	11:K:45:LEU:CD2	2.38	0.54
4:D:53:LEU:H	4:D:147:SER:HB3	1.73	0.54
5:E:16:ARG:HG3	5:E:16:ARG:HH11	1.72	0.54
6:F:99:LEU:HD11	7:G:65:SER:O	2.07	0.54
8:H:12:VAL:CG2	8:H:53:ASP:HB2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:65:ASP:HB3	9:I:68:LEU:HD12	1.89	0.54
1:M:200:ARG:CB	1:M:200:ARG:HH11	2.19	0.54
1:M:281:GLU:HG2	1:M:290:ILE:HD13	1.88	0.54
1:M:710:THR:HB	1:M:713:GLU:CG	2.32	0.54
2:N:33:GLN:HB2	2:N:401:LEU:HD21	1.89	0.54
2:N:202:VAL:CG2	2:N:476:LEU:HD13	2.36	0.54
2:N:821:GLN:HE22	2:N:851:PHE:N	2.00	0.54
2:N:871:VAL:HG12	2:N:872:GLU:N	2.22	0.54
7:S:119:LEU:HD11	7:S:130:TYR:HB3	1.87	0.54
9:U:65:ASP:HB3	9:U:68:LEU:HD12	1.89	0.54
1:A:98:LYS:O	1:A:99:ILE:C	2.50	0.54
1:A:549:ASN:HA	11:K:60:ALA:HB1	1.90	0.54
1:A:815:PHE:O	1:A:816:PHE:C	2.49	0.54
1:A:1096:VAL:HG13	1:A:1115:THR:CG2	2.36	0.54
1:A:1427:VAL:O	1:A:1431:VAL:HG23	2.07	0.54
1:A:1453:LEU:HG	7:G:19:GLY:O	2.08	0.54
2:B:231:ILE:HG23	2:B:231:ILE:O	2.07	0.54
2:B:797:TYR:C	2:B:798:TYR:CD2	2.78	0.54
2:B:1183:ARG:C	2:B:1185:CYS:H	2.15	0.54
3:C:47:LEU:CB	3:C:158:ILE:HG21	2.20	0.54
11:K:91:CYS:O	11:K:94:ILE:HB	2.08	0.54
1:M:476:THR:CG2	1:M:477:SER:N	2.70	0.54
1:M:815:PHE:O	1:M:816:PHE:C	2.49	0.54
1:M:1096:VAL:HG13	1:M:1115:THR:CG2	2.36	0.54
1:M:1287:MET:HG2	1:M:1309:LEU:CD2	2.38	0.54
1:M:1413:PHE:C	1:M:1415:ALA:H	2.15	0.54
2:N:847:ASP:HB3	3:O:167:HIS:CD2	2.43	0.54
3:O:212:PRO:HB3	3:O:213:PRO:HD2	1.89	0.54
1:A:219:ASP:O	1:A:220:CYS:C	2.50	0.54
1:A:316:LEU:HD22	1:A:320:GLY:O	2.08	0.54
1:A:346:VAL:HG11	2:B:1130:PHE:HB2	1.85	0.54
1:A:561:VAL:CG2	8:H:77:SER:HB2	2.38	0.54
1:A:1241:ARG:NH2	1:A:1243:ARG:HH22	2.02	0.54
2:B:828:ALA:O	2:B:834:ASN:ND2	2.40	0.54
5:E:21:MET:HE3	5:E:25:ARG:NE	2.16	0.54
7:G:74:TYR:H	7:G:74:TYR:HD2	1.56	0.54
9:I:5:ARG:HD3	9:I:36:GLU:OE2	2.06	0.54
1:M:255:GLU:HB2	2:N:935:ARG:CZ	2.26	0.54
1:M:344:LYS:HE3	2:N:1151:LEU:CA	2.38	0.54
1:M:715:PHE:O	1:M:719:VAL:HG23	2.07	0.54
1:M:1213:GLN:O	1:M:1214:VAL:C	2.51	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1427:VAL:O	1:M:1431:VAL:HG23	2.08	0.54
2:N:463:LYS:C	2:N:465:ALA:H	2.16	0.54
2:N:828:ALA:O	2:N:834:ASN:ND2	2.40	0.54
2:N:839:MET:HE3	2:N:1010:LEU:HD11	1.89	0.54
2:N:1168:LEU:HD13	2:N:1208:MET:CE	2.37	0.54
5:Q:21:MET:HE3	5:Q:25:ARG:NE	2.16	0.54
5:Q:134:PHE:HD2	5:Q:139:LEU:HD21	1.72	0.54
1:A:244:PRO:O	1:A:247:VAL:HB	2.07	0.54
1:A:472:ASN:OD1	1:A:473:LEU:N	2.40	0.54
1:A:988:ILE:HG22	1:A:989:ILE:N	2.23	0.54
1:A:1232:GLU:O	1:A:1234:ASN:N	2.40	0.54
1:A:1343:GLY:O	1:A:1345:GLU:N	2.41	0.54
1:A:1444:PHE:HD1	1:A:1444:PHE:C	2.16	0.54
2:B:33:GLN:HB2	2:B:401:LEU:HD21	1.90	0.54
2:B:166:ARG:HG3	2:B:166:ARG:NH1	2.22	0.54
2:B:774:GLY:C	2:B:776:GLN:H	2.15	0.54
2:B:975:GLN:O	2:B:977:GLY:N	2.40	0.54
3:C:167:HIS:CD2	3:C:168:ALA:N	2.75	0.54
4:D:7:THR:CB	7:G:42:PHE:HE2	2.21	0.54
6:F:103:MET:HE2	7:G:65:SER:CA	2.35	0.54
7:G:39:THR:O	7:G:43:GLY:N	2.32	0.54
1:M:472:ASN:OD1	1:M:473:LEU:N	2.40	0.54
1:M:549:ASN:HA	11:W:60:ALA:HB1	1.90	0.54
1:M:561:VAL:CG2	8:T:77:SER:HB2	2.38	0.54
1:M:667:ILE:CD1	1:M:668:GLY:H	2.21	0.54
1:M:897:ARG:HD3	1:M:898:TYR:CE1	2.43	0.54
1:M:934:TYR:O	1:M:938:VAL:HG23	2.06	0.54
1:M:1376:ASP:HA	1:M:1379:THR:CG2	2.38	0.54
1:M:1444:PHE:C	1:M:1444:PHE:HD1	2.16	0.54
2:N:184:LYS:CD	2:N:787:VAL:HG11	2.38	0.54
2:N:860:MET:HG3	2:N:965:LYS:HG2	1.88	0.54
2:N:1072:MET:HE2	2:N:1087:PHE:HB2	1.89	0.54
2:N:1079:LYS:HA	3:O:26:LEU:HD21	1.89	0.54
4:P:7:THR:CB	7:S:42:PHE:HE2	2.21	0.54
7:S:132:SER:HB3	7:S:135:GLU:H	1.73	0.54
1:A:1148:VAL:HG11	1:A:1209:LEU:HD12	1.88	0.54
1:A:1287:MET:HG2	1:A:1309:LEU:CD2	2.38	0.54
1:A:1376:ASP:HA	1:A:1379:THR:CG2	2.38	0.54
2:B:184:LYS:CD	2:B:787:VAL:HG11	2.38	0.54
3:C:242:GLN:C	3:C:244:PHE:N	2.66	0.54
11:K:50:LEU:C	11:K:52:LEU:H	2.14	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:787:HIS:HD2	2:N:700:ILE:HB	1.71	0.54
1:M:1222:PHE:O	1:M:1223:SER:HB2	2.08	0.54
1:M:1232:GLU:O	1:M:1234:ASN:N	2.40	0.54
2:N:519:GLU:HA	2:N:771:SER:HB3	1.88	0.54
2:N:573:ILE:CG2	2:N:581:GLY:O	2.56	0.54
2:N:797:TYR:HE1	2:N:854:LEU:HD23	1.73	0.54
2:N:1156:ASP:O	2:N:1157:ALA:HB3	2.07	0.54
3:O:251:LEU:HD11	11:W:45:LEU:CD2	2.38	0.54
12:X:60:LYS:O	12:X:61:ALA:O	2.26	0.54
1:A:169:GLY:O	1:A:170:ASN:C	2.49	0.54
2:B:92:ALA:O	2:B:93:ASP:CB	2.55	0.54
2:B:244:THR:HG22	2:B:245:MET:N	2.23	0.54
3:C:252:GLN:CG	11:K:95:ILE:HG23	2.38	0.54
7:G:89:ALA:CB	7:G:103:VAL:N	2.71	0.54
10:J:52:HIS:HD2	10:J:53:VAL:N	2.06	0.54
11:K:65:HIS:HD2	11:K:67:LEU:H	1.54	0.54
1:M:316:LEU:HD22	1:M:320:GLY:O	2.08	0.54
1:M:1445:ASP:OD2	6:R:137:TYR:OH	2.21	0.54
2:N:1021:MET:O	2:N:1023:VAL:HG23	2.07	0.54
10:V:13:VAL:O	10:V:14:VAL:CG2	2.55	0.54
1:A:874:LEU:C	1:A:1060:VAL:HG23	2.32	0.54
1:A:983:LEU:HD12	1:A:1034:LEU:HD21	1.90	0.54
2:B:630:LEU:HD22	2:B:742:GLU:HA	1.90	0.54
2:B:797:TYR:HE1	2:B:854:LEU:HD23	1.73	0.54
7:G:132:SER:HB3	7:G:135:GLU:H	1.73	0.54
12:L:60:LYS:O	12:L:61:ALA:O	2.26	0.54
1:M:98:LYS:O	1:M:99:ILE:C	2.50	0.54
1:M:219:ASP:O	1:M:220:CYS:C	2.50	0.54
1:M:267:LEU:CD2	1:M:304:TYR:CE1	2.91	0.54
1:M:988:ILE:HG22	1:M:989:ILE:N	2.23	0.54
1:M:1084:ASN:HB3	1:M:1086:PHE:CD1	2.41	0.54
1:M:1283:SER:O	1:M:1284:LYS:C	2.51	0.54
2:N:370:PHE:C	2:N:372:GLY:N	2.65	0.54
2:N:573:ILE:HG23	2:N:581:GLY:O	2.08	0.54
2:N:782:LEU:HB3	2:N:784:ASN:OD1	2.08	0.54
5:Q:77:LEU:HA	5:Q:106:THR:HB	1.90	0.54
7:S:1:MET:HE1	7:S:80:LYS:HE3	1.90	0.54
7:S:153:ASP:HB3	7:S:156:GLU:O	2.08	0.54
1:A:226:ASN:ND2	1:A:229:TYR:H	2.04	0.54
1:A:267:LEU:CD2	1:A:304:TYR:CE1	2.91	0.54
1:A:370:SER:HB3	11:K:2:ASN:HD21	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:874:LEU:C	1:A:1060:VAL:CG2	2.81	0.54
1:A:1078:ALA:CA	1:A:1081:MET:HE2	2.34	0.54
1:A:1448:ILE:HG23	7:G:61:ILE:HD11	1.90	0.54
2:B:556:MET:HE2	2:B:581:GLY:O	2.07	0.54
2:B:847:ASP:HB3	3:C:167:HIS:CD2	2.43	0.54
2:B:1169:MET:HE2	2:B:1204:PHE:HB2	1.88	0.54
3:C:114:TYR:CD2	3:C:140:GLN:HB2	2.43	0.54
8:H:61:ASN:HB3	8:H:138:ASN:HB3	1.90	0.54
10:J:23:ARG:C	10:J:25:LEU:N	2.67	0.54
1:M:352:THR:HG21	2:N:1103:ILE:CD1	2.38	0.54
1:M:1410:GLU:CD	1:M:1410:GLU:N	2.65	0.54
2:N:318:ASP:OD2	2:N:320:GLU:HB2	2.08	0.54
2:N:975:GLN:O	2:N:977:GLY:N	2.40	0.54
2:N:980:PHE:C	2:N:1095:LEU:HD13	2.32	0.54
5:Q:16:ARG:HG3	5:Q:16:ARG:HH11	1.72	0.54
8:T:62:SER:OG	8:T:63:LEU:HG	2.06	0.54
10:V:52:HIS:HD2	10:V:53:VAL:N	2.06	0.54
1:A:90:VAL:HG12	1:A:298:GLN:NE2	2.22	0.53
1:A:1118:LEU:N	1:A:1311:THR:CG2	2.64	0.53
1:A:1413:PHE:C	1:A:1415:ALA:H	2.15	0.53
1:A:1444:PHE:HA	6:F:137:TYR:CD1	2.41	0.53
2:B:180:LEU:O	2:B:183:MET:N	2.41	0.53
2:B:305:MET:HE2	2:B:383:LEU:CD2	2.38	0.53
2:B:573:ILE:HG23	2:B:581:GLY:O	2.08	0.53
2:B:763:GLN:HG2	2:B:765:PRO:CG	2.39	0.53
3:C:115:SER:CB	3:C:142:ILE:CG1	2.86	0.53
5:E:90:LYS:C	5:E:92:MET:N	2.63	0.53
5:E:123:ILE:HA	5:E:131:ILE:HD12	1.90	0.53
7:G:77:VAL:O	7:G:77:VAL:HG12	2.07	0.53
9:I:32:CYS:SG	9:I:33:ASP:N	2.81	0.53
1:M:1194:LEU:HG	1:M:1195:LEU:N	2.23	0.53
1:M:1335:PHE:HD2	1:M:1335:PHE:N	2.06	0.53
2:N:630:LEU:HD22	2:N:742:GLU:HA	1.90	0.53
2:N:785:TYR:HA	2:N:788:ARG:HG3	1.89	0.53
2:N:1135:ARG:O	2:N:1136:ASP:C	2.51	0.53
1:A:64:ASN:O	1:A:65:PHE:C	2.51	0.53
1:A:346:VAL:HG13	2:B:1130:PHE:CB	2.28	0.53
1:A:854:ASP:CG	1:A:856:THR:HG22	2.32	0.53
1:A:1335:PHE:N	1:A:1335:PHE:HD2	2.06	0.53
1:A:1367:ASN:ND2	1:A:1368:TYR:N	2.56	0.53
2:B:54:PRO:CG	2:B:55:ARG:H	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:472:VAL:O	2:B:473:SER:HB3	2.08	0.53
2:B:574:PHE:O	2:B:619:ILE:HB	2.08	0.53
2:B:704:PRO:HG2	2:B:705:GLU:H	1.72	0.53
3:C:81:TYR:CE2	3:C:161:LYS:HB3	2.44	0.53
3:C:148:ARG:CG	3:C:149:ASN:N	2.72	0.53
3:C:170:TRP:O	3:C:171:SER:C	2.51	0.53
7:G:117:ASP:C	7:G:119:LEU:H	2.16	0.53
9:I:106:CYS:O	9:I:107:LYS:HB2	2.08	0.53
11:K:29:ASN:O	11:K:76:GLN:HG3	2.07	0.53
1:M:244:PRO:O	1:M:247:VAL:HB	2.07	0.53
1:M:1343:GLY:O	1:M:1345:GLU:N	2.41	0.53
1:M:1445:ASP:OD2	6:R:137:TYR:CE1	2.61	0.53
3:O:32:LEU:HG	3:O:36:MET:HE2	1.89	0.53
3:O:252:GLN:CG	11:W:95:ILE:HG23	2.38	0.53
7:S:89:ALA:CB	7:S:103:VAL:N	2.71	0.53
9:U:106:CYS:O	9:U:107:LYS:HB2	2.08	0.53
1:A:667:ILE:HD12	1:A:667:ILE:N	2.22	0.53
1:A:1335:PHE:N	1:A:1335:PHE:CD2	2.76	0.53
1:A:1343:GLY:HA3	5:E:183:VAL:HG23	1.89	0.53
1:A:1379:THR:HG23	1:A:1380:SER:N	2.24	0.53
2:B:458:ASN:N	2:B:458:ASN:ND2	2.55	0.53
2:B:839:MET:HE3	2:B:1010:LEU:HD11	1.89	0.53
2:B:981:ALA:HB2	2:B:987:LYS:HA	1.90	0.53
5:E:134:PHE:HD2	5:E:139:LEU:HD21	1.72	0.53
11:K:31:ILE:CG1	11:K:32:ILE:N	2.71	0.53
1:M:822:ARG:HH11	1:M:822:ARG:CB	2.21	0.53
1:M:1239:ILE:CG2	1:M:1240:ILE:N	2.70	0.53
1:M:1282:ILE:HG23	1:M:1311:THR:OG1	2.08	0.53
1:M:1389:ARG:HB2	1:M:1406:GLU:HG3	1.91	0.53
1:M:1444:PHE:C	1:M:1444:PHE:CD1	2.86	0.53
2:N:92:ALA:O	2:N:93:ASP:CB	2.55	0.53
7:S:77:VAL:O	7:S:77:VAL:HG12	2.07	0.53
1:A:524:ILE:CG2	1:A:528:THR:HB	2.39	0.53
1:A:1194:LEU:HG	1:A:1195:LEU:N	2.23	0.53
1:A:1239:ILE:CG2	1:A:1240:ILE:N	2.70	0.53
1:A:1450:GLU:HG3	7:G:22:MET:CG	2.39	0.53
2:B:201:LYS:HA	2:B:474:GLN:O	2.09	0.53
2:B:755:ILE:HA	2:B:809:MET:HE2	1.91	0.53
2:B:782:LEU:HB3	2:B:784:ASN:OD1	2.08	0.53
2:B:859:TYR:HD1	2:B:859:TYR:H	1.56	0.53
5:E:77:LEU:HA	5:E:106:THR:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:1:MET:O	7:G:3:PHE:CD1	2.62	0.53
9:I:34:TYR:CD2	9:I:34:TYR:C	2.84	0.53
10:J:51:THR:O	10:J:51:THR:CG2	2.56	0.53
1:M:400:HIS:CB	1:M:401:PRO:HD3	2.36	0.53
1:M:1075:GLY:O	1:M:1078:ALA:HB3	2.07	0.53
1:M:1337:GLU:O	1:M:1340:SER:N	2.41	0.53
2:N:774:GLY:C	2:N:776:GLN:H	2.14	0.53
2:N:859:TYR:HD1	2:N:859:TYR:H	1.56	0.53
3:O:114:TYR:HB3	3:O:140:GLN:O	2.08	0.53
4:P:4:SER:O	4:P:5:THR:CB	2.56	0.53
1:A:91:PHE:HB3	1:A:96:ILE:HG12	1.91	0.53
1:A:601:PRO:C	1:A:603:ASP:H	2.15	0.53
1:A:669:ASP:HB3	1:A:742:ASN:HD21	1.74	0.53
1:A:851:VAL:HG21	1:A:1060:VAL:HG11	1.91	0.53
1:A:1163:THR:HG22	1:A:1164:VAL:H	1.72	0.53
1:A:1213:GLN:O	1:A:1214:VAL:C	2.51	0.53
2:B:463:LYS:C	2:B:465:ALA:H	2.16	0.53
2:B:1168:LEU:HD13	2:B:1208:MET:CE	2.37	0.53
8:H:111:ILE:HG22	8:H:112:LYS:N	2.23	0.53
1:M:406:VAL:CG1	1:M:414:ILE:HD12	2.39	0.53
1:M:524:ILE:CG2	1:M:528:THR:HB	2.39	0.53
1:M:810:THR:O	1:M:811:PRO:C	2.50	0.53
2:N:158:ILE:CG2	2:N:446:ILE:HD12	2.32	0.53
2:N:206:GLN:HE22	2:N:492:ASN:CB	2.15	0.53
3:O:5:PRO:HB3	3:O:24:VAL:CG1	2.36	0.53
8:T:80:PRO:CB	8:T:81:PRO:CD	2.85	0.53
1:A:114:LEU:O	1:A:115:LEU:HG	2.08	0.53
1:A:239:VAL:CG2	1:A:239:VAL:CA	2.79	0.53
1:A:699:GLN:HE21	9:I:99:LEU:HD21	1.74	0.53
1:A:1282:ILE:HG23	1:A:1311:THR:OG1	2.08	0.53
1:A:1447:MET:HG2	7:G:60:ARG:CB	2.17	0.53
2:B:479:TYR:CE1	2:B:1096:ARG:NH2	2.77	0.53
3:C:114:TYR:HB3	3:C:140:GLN:O	2.08	0.53
7:G:153:ASP:HB3	7:G:156:GLU:O	2.08	0.53
1:M:11:LEU:HD12	1:M:12:ARG:N	2.24	0.53
1:M:345:ARG:CA	2:N:1129:ARG:HB2	2.36	0.53
1:M:874:LEU:C	1:M:1060:VAL:CG2	2.82	0.53
1:M:1144:THR:O	1:M:1147:ASN:CG	2.52	0.53
1:M:1335:PHE:N	1:M:1335:PHE:CD2	2.76	0.53
2:N:54:PRO:CG	2:N:55:ARG:H	2.21	0.53
2:N:266:PRO:HG3	2:N:352:GLU:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1099:VAL:O	2:N:1101:ASP:N	2.41	0.53
3:O:56:VAL:HG11	10:V:59:PHE:CB	2.31	0.53
3:O:114:TYR:CG	3:O:140:GLN:HB2	2.44	0.53
7:S:74:TYR:H	7:S:74:TYR:HD2	1.56	0.53
1:A:538:ARG:NH2	8:H:25:ARG:HH21	2.06	0.53
1:A:1222:PHE:O	1:A:1223:SER:HB2	2.08	0.53
1:A:1283:SER:O	1:A:1284:LYS:C	2.51	0.53
2:B:286:ASP:H	9:I:12:ASN:ND2	2.05	0.53
2:B:550:PHE:O	2:B:550:PHE:HD2	1.91	0.53
2:B:1010:LEU:CD2	2:B:1092:TYR:CE1	2.92	0.53
2:B:1138:MET:HE3	2:B:1143:ALA:CB	2.39	0.53
1:M:90:VAL:HG12	1:M:298:GLN:NE2	2.22	0.53
1:M:538:ARG:NH2	8:T:25:ARG:HH21	2.06	0.53
1:M:712:ARG:O	1:M:715:PHE:HB3	2.09	0.53
1:M:1379:THR:HG23	1:M:1380:SER:N	2.24	0.53
2:N:847:ASP:C	2:N:849:GLY:N	2.67	0.53
7:S:1:MET:O	7:S:3:PHE:CD1	2.62	0.53
8:T:26:ILE:HG22	8:T:27:ILE:N	2.23	0.53
11:W:12:LEU:HD22	11:W:16:VAL:O	2.09	0.53
11:W:91:CYS:O	11:W:94:ILE:HB	2.08	0.53
1:A:246:GLN:O	2:B:1114:LEU:HD13	2.04	0.53
1:A:352:THR:HG21	2:B:1103:ILE:CD1	2.38	0.53
1:A:418:TYR:O	1:A:419:HIS:C	2.50	0.53
2:B:370:PHE:C	2:B:372:GLY:N	2.65	0.53
3:C:56:VAL:HG11	10:J:59:PHE:CB	2.31	0.53
4:D:4:SER:O	4:D:5:THR:CB	2.56	0.53
11:K:40:HIS:O	11:K:41:THR:C	2.52	0.53
1:M:114:LEU:O	1:M:115:LEU:HG	2.09	0.53
1:M:983:LEU:HD12	1:M:1034:LEU:HD21	1.90	0.53
1:M:988:ILE:HD11	1:M:1033:ILE:CG1	2.34	0.53
2:N:472:VAL:O	2:N:473:SER:HB3	2.08	0.53
2:N:955:THR:HG22	2:N:956:THR:O	2.09	0.53
2:N:1138:MET:HE3	2:N:1143:ALA:CB	2.39	0.53
3:O:114:TYR:CD2	3:O:140:GLN:HB2	2.43	0.53
3:O:235:THR:OG1	10:V:13:VAL:HG22	2.09	0.53
5:Q:123:ILE:HA	5:Q:131:ILE:HD12	1.90	0.53
7:S:117:ASP:C	7:S:119:LEU:H	2.16	0.53
1:A:216:SER:O	1:A:219:ASP:HB2	2.09	0.53
1:A:406:VAL:CG1	1:A:414:ILE:HD12	2.39	0.53
1:A:428:GLN:O	1:A:429:TYR:C	2.52	0.53
1:A:667:ILE:CD1	1:A:668:GLY:H	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1006:ASN:ND2	5:E:166:ARG:CD	2.67	0.53
1:A:1076:GLU:HB3	1:A:1077:PRO:CD	2.39	0.53
2:B:573:ILE:CG2	2:B:581:GLY:O	2.56	0.53
2:B:859:TYR:CZ	2:B:941:LEU:HD12	2.44	0.53
2:B:1135:ARG:O	2:B:1136:ASP:C	2.51	0.53
4:D:141:GLU:C	4:D:143:ALA:N	2.67	0.53
5:E:89:ILE:HG22	5:E:118:SER:C	2.23	0.53
1:M:428:GLN:O	1:M:429:TYR:C	2.52	0.53
1:M:1204:MET:HE1	1:M:1214:VAL:HG21	1.91	0.53
2:N:755:ILE:HA	2:N:809:MET:HE2	1.91	0.53
2:N:797:TYR:C	2:N:798:TYR:CD2	2.78	0.53
2:N:866:PHE:C	2:N:868:ILE:N	2.66	0.53
2:N:1010:LEU:CD2	2:N:1092:TYR:CE1	2.92	0.53
3:O:96:VAL:CG1	3:O:98:LEU:HD21	2.38	0.53
10:V:13:VAL:C	10:V:14:VAL:CG2	2.82	0.53
1:A:11:LEU:HD12	1:A:12:ARG:N	2.24	0.53
1:A:335:GLY:O	1:A:337:LEU:N	2.42	0.53
10:J:47:ARG:NH2	10:J:48:MET:HE1	2.20	0.53
11:K:53:TYR:HB3	11:K:56:VAL:HG23	1.91	0.53
1:M:343:GLY:C	2:N:1129:ARG:CZ	2.82	0.53
1:M:681:THR:HG23	2:N:726:ILE:HD11	1.91	0.53
1:M:1445:ASP:HB2	6:R:137:TYR:CE1	2.44	0.53
2:N:981:ALA:HB2	2:N:987:LYS:HA	1.90	0.53
3:O:81:TYR:CE2	3:O:161:LYS:HB3	2.44	0.53
3:O:148:ARG:CG	3:O:149:ASN:N	2.72	0.53
5:Q:127:SER:HA	5:Q:128:PRO:C	2.34	0.53
10:V:51:THR:O	10:V:51:THR:CG2	2.57	0.53
11:W:68:PHE:CD2	11:W:68:PHE:N	2.76	0.53
1:A:43:GLU:HB2	1:A:46:GLN:HB2	1.90	0.52
1:A:630:LEU:C	1:A:633:THR:HG22	2.35	0.52
1:A:712:ARG:O	1:A:715:PHE:HB3	2.09	0.52
1:A:742:ASN:HD22	1:A:742:ASN:C	2.15	0.52
1:A:1391:GLY:O	1:A:1394:ARG:N	2.41	0.52
1:A:1444:PHE:C	1:A:1444:PHE:CD1	2.86	0.52
2:B:864:LYS:O	2:B:872:GLU:HG3	2.09	0.52
2:B:1099:VAL:O	2:B:1101:ASP:N	2.41	0.52
2:B:1156:ASP:O	2:B:1157:ALA:HB3	2.07	0.52
6:F:86:THR:HG1	6:F:89:GLU:HG3	1.70	0.52
8:H:48:PRO:O	8:H:49:VAL:HG23	2.09	0.52
1:M:203:LEU:CG	1:M:207:GLU:CB	2.87	0.52
1:M:306:ASP:CG	1:M:327:ARG:HD3	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:769:GLN:CB	1:M:820:ALA:HB2	2.28	0.52
1:M:843:VAL:HG11	2:N:1136:ASP:OD2	2.09	0.52
1:M:1006:ASN:ND2	5:Q:166:ARG:CD	2.66	0.52
2:N:491:THR:HG22	2:N:530:LYS:N	2.20	0.52
2:N:574:PHE:O	2:N:619:ILE:HB	2.09	0.52
2:N:1167:GLY:O	2:N:1168:LEU:HD23	2.09	0.52
2:N:1180:PHE:HB3	2:N:1191:ILE:CD1	2.32	0.52
7:S:50:ASP:OD1	7:S:50:ASP:O	2.28	0.52
11:W:31:ILE:CG1	11:W:32:ILE:N	2.71	0.52
1:A:79:GLY:H	2:B:1205:GLN:HE22	1.57	0.52
1:A:321:ARG:NH2	1:A:324:LYS:HE3	2.24	0.52
1:A:327:ARG:NH2	1:A:331:LYS:HE3	2.24	0.52
1:A:606:MET:HE3	1:A:607:LEU:N	2.23	0.52
1:A:1405:PHE:CE2	1:A:1406:GLU:HG3	2.45	0.52
2:B:288:GLU:C	2:B:291:GLN:HB2	2.33	0.52
2:B:310:ILE:CG1	2:B:311:GLU:N	2.71	0.52
2:B:575:VAL:O	2:B:575:VAL:HG12	2.08	0.52
3:C:114:TYR:CG	3:C:140:GLN:HB2	2.44	0.52
7:G:15:PRO:HA	7:G:18:PHE:CD1	2.44	0.52
8:H:26:ILE:HG22	8:H:27:ILE:N	2.23	0.52
10:J:27:GLU:O	10:J:29:LYS:N	2.43	0.52
11:K:12:LEU:HD22	11:K:16:VAL:O	2.09	0.52
1:M:64:ASN:O	1:M:65:PHE:C	2.51	0.52
1:M:216:SER:O	1:M:219:ASP:HB2	2.09	0.52
1:M:225:PHE:CZ	1:M:235:MET:HE2	2.44	0.52
1:M:494:GLN:H	1:M:498:THR:HG21	1.75	0.52
1:M:769:GLN:HB3	1:M:820:ALA:CB	2.28	0.52
1:M:827:ASP:C	1:M:829:ALA:H	2.18	0.52
1:M:936:GLN:O	1:M:939:SER:N	2.42	0.52
1:M:1078:ALA:CA	1:M:1081:MET:HE2	2.34	0.52
1:M:1123:ASP:O	1:M:1124:ARG:C	2.53	0.52
1:M:1389:ARG:CA	1:M:1405:PHE:CE2	2.92	0.52
2:N:244:THR:HG22	2:N:245:MET:N	2.23	0.52
2:N:305:MET:HE2	2:N:383:LEU:CD2	2.38	0.52
3:O:175:ALA:HB3	10:V:42:ARG:HH22	1.69	0.52
4:P:141:GLU:C	4:P:143:ALA:N	2.67	0.52
5:Q:146:HIS:HB3	5:Q:149:VAL:CG2	2.33	0.52
10:V:1:MET:H1	10:V:55:LEU:N	2.05	0.52
1:A:173:PRO:HD3	1:A:186:TRP:HE1	1.75	0.52
1:A:681:THR:HG23	2:B:726:ILE:HD11	1.91	0.52
2:B:318:ASP:OD2	2:B:320:GLU:HB2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:104:PHE:O	5:E:105:SER:HB2	2.09	0.52
7:G:1:MET:HE1	7:G:80:LYS:HE3	1.91	0.52
1:M:320:GLY:H	2:N:464:LYS:HG2	1.73	0.52
1:M:327:ARG:NH2	1:M:331:LYS:HE3	2.24	0.52
1:M:699:GLN:HE21	9:U:99:LEU:HD21	1.74	0.52
1:M:851:VAL:HG21	1:M:1060:VAL:HG11	1.91	0.52
1:M:1015:ASN:O	1:M:1017:THR:N	2.43	0.52
1:M:1391:GLY:O	1:M:1394:ARG:N	2.41	0.52
2:N:201:LYS:HA	2:N:474:GLN:O	2.09	0.52
2:N:249:LEU:HG	2:N:249:LEU:O	2.10	0.52
2:N:288:GLU:C	2:N:291:GLN:HB2	2.34	0.52
2:N:479:TYR:CE1	2:N:1096:ARG:NH2	2.77	0.52
3:O:38:ALA:HA	3:O:164:ALA:CB	2.39	0.52
8:T:61:ASN:HB3	8:T:138:ASN:HB3	1.90	0.52
9:U:14:LEU:HD22	9:U:28:SER:O	2.10	0.52
1:A:219:ASP:HA	1:A:222:ARG:CG	2.39	0.52
1:A:263:LEU:C	1:A:265:HIS:N	2.67	0.52
1:A:306:ASP:CG	1:A:327:ARG:HD3	2.34	0.52
1:A:827:ASP:C	1:A:829:ALA:H	2.18	0.52
1:A:1166:GLU:O	1:A:1168:ASP:N	2.39	0.52
2:B:551:LEU:HD11	2:B:619:ILE:HD11	1.92	0.52
1:M:335:GLY:O	1:M:337:LEU:N	2.42	0.52
1:M:848:ASP:CA	1:M:1427:VAL:HG21	2.40	0.52
1:M:1101:PRO:O	1:M:1104:LYS:HB3	2.09	0.52
1:M:1210:THR:HG22	1:M:1212:ASN:H	1.74	0.52
1:M:1337:GLU:O	1:M:1338:ILE:C	2.52	0.52
2:N:632:ILE:HG22	2:N:634:GLU:HG2	1.92	0.52
2:N:857:ARG:HG3	2:N:858:SER:N	2.25	0.52
7:S:88:ASP:OD2	7:S:88:ASP:N	2.42	0.52
10:V:47:ARG:NH2	10:V:48:MET:HE1	2.20	0.52
11:W:84:LYS:O	11:W:87:LEU:HB3	2.10	0.52
1:A:203:LEU:CG	1:A:207:GLU:CB	2.87	0.52
1:A:1337:GLU:O	1:A:1338:ILE:C	2.52	0.52
1:A:1440:GLY:O	1:A:1442:GLY:N	2.43	0.52
2:B:38:PHE:CD2	2:B:164:MET:HB3	2.45	0.52
2:B:609:ILE:HD13	2:B:618:LYS:HB2	1.91	0.52
2:B:812:LEU:C	2:B:814:PHE:N	2.66	0.52
5:E:127:SER:HA	5:E:128:PRO:C	2.34	0.52
5:E:156:SER:OG	5:E:159:GLU:HG3	2.10	0.52
10:J:20:ALA:O	10:J:24:LEU:HG	2.10	0.52
1:M:23:SER:HB3	1:M:234:TRP:CZ2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:669:ASP:HB3	1:M:742:ASN:HD21	1.74	0.52
1:M:1405:PHE:CE2	1:M:1406:GLU:HG3	2.45	0.52
2:N:37:SER:O	2:N:403:GLY:HA3	2.09	0.52
2:N:857:ARG:NH1	2:N:945:GLU:OE2	2.43	0.52
5:Q:152:HIS:O	5:Q:153:ILE:CG1	2.54	0.52
5:Q:160:LYS:C	5:Q:162:GLN:N	2.68	0.52
6:R:103:MET:CE	7:S:64:GLY:O	2.58	0.52
11:W:49:GLU:HG3	11:W:94:ILE:CG1	2.34	0.52
1:A:23:SER:HB3	1:A:234:TRP:CZ2	2.45	0.52
1:A:827:ASP:C	1:A:829:ALA:N	2.67	0.52
1:A:1123:ASP:O	1:A:1124:ARG:C	2.53	0.52
2:B:551:LEU:C	2:B:553:GLU:N	2.63	0.52
2:B:858:SER:HA	2:B:966:VAL:O	2.09	0.52
2:B:890:TYR:CA	2:B:910:ILE:HG21	2.39	0.52
4:D:67:ARG:HD2	4:D:93:THR:HB	1.92	0.52
6:F:84:TYR:CE1	6:F:152:ILE:HD12	2.45	0.52
7:G:27:ARG:O	7:G:30:LEU:HB3	2.10	0.52
1:M:742:ASN:HD22	1:M:742:ASN:C	2.15	0.52
1:M:1047:VAL:O	1:M:1051:ILE:HG13	2.09	0.52
2:N:107:ARG:HG2	2:N:955:THR:HG21	1.92	0.52
2:N:462:GLN:O	2:N:463:LYS:O	2.27	0.52
2:N:858:SER:HA	2:N:966:VAL:O	2.09	0.52
3:O:170:TRP:O	3:O:171:SER:C	2.51	0.52
10:V:23:ARG:C	10:V:25:LEU:N	2.67	0.52
1:A:225:PHE:CZ	1:A:235:MET:HE2	2.44	0.52
1:A:1047:VAL:O	1:A:1051:ILE:HG13	2.09	0.52
1:A:1101:PRO:O	1:A:1104:LYS:HB3	2.09	0.52
1:A:1275:ALA:C	1:A:1276:LEU:HD12	2.35	0.52
2:B:158:ILE:HA	2:B:443:SER:CB	2.40	0.52
2:B:857:ARG:HG3	2:B:858:SER:N	2.25	0.52
7:G:88:ASP:OD2	7:G:88:ASP:N	2.42	0.52
1:M:91:PHE:HB3	1:M:96:ILE:HG12	1.91	0.52
1:M:380:THR:OG1	6:R:102:SER:O	2.24	0.52
1:M:643:CYS:O	1:M:646:LEU:HB3	2.10	0.52
2:N:158:ILE:HA	2:N:443:SER:CB	2.40	0.52
2:N:458:ASN:N	2:N:458:ASN:ND2	2.55	0.52
3:O:242:GLN:C	3:O:244:PHE:N	2.66	0.52
4:P:24:ASN:O	7:S:83:LYS:HB2	2.10	0.52
6:R:84:TYR:CE1	6:R:152:ILE:HD12	2.44	0.52
7:S:27:ARG:O	7:S:30:LEU:HB3	2.10	0.52
1:A:498:THR:HG23	2:B:1146:PHE:HD1	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:801:VAL:HG11	1:A:809:LEU:CD1	2.39	0.52
1:A:1210:THR:HG22	1:A:1212:ASN:H	1.74	0.52
2:B:462:GLN:O	2:B:463:LYS:O	2.27	0.52
2:B:825:VAL:HG12	2:B:826:ALA:N	2.24	0.52
2:B:955:THR:HG22	2:B:956:THR:O	2.09	0.52
5:E:95:PHE:CE2	5:E:109:PHE:HB2	2.45	0.52
10:J:2:ILE:HG23	10:J:3:ILE:H	1.74	0.52
1:M:219:ASP:HA	1:M:222:ARG:CG	2.40	0.52
1:M:630:LEU:C	1:M:633:THR:HG22	2.35	0.52
2:N:200:GLU:OE2	2:N:476:LEU:HD23	2.10	0.52
5:Q:89:ILE:HG21	5:Q:118:SER:CA	2.39	0.52
5:Q:104:PHE:O	5:Q:105:SER:HB2	2.09	0.52
7:S:47:THR:O	7:S:76:ALA:HB1	2.09	0.52
9:U:15:TYR:N	9:U:15:TYR:CD1	2.77	0.52
1:A:546:GLN:HG2	1:A:550:MET:CE	2.38	0.52
1:A:825:LEU:HD21	2:B:765:PRO:CB	2.39	0.52
1:A:843:VAL:C	1:A:845:ALA:N	2.68	0.52
2:B:200:GLU:OE2	2:B:476:LEU:HD23	2.10	0.52
2:B:632:ILE:HG22	2:B:634:GLU:HG2	1.92	0.52
4:D:53:LEU:HD22	4:D:108:TYR:HE2	1.75	0.52
7:G:114:LEU:HB3	7:G:162:SER:HB3	1.90	0.52
10:J:13:VAL:C	10:J:14:VAL:CG2	2.82	0.52
12:L:32:THR:HG22	12:L:33:CYS:N	2.24	0.52
1:M:226:ASN:ND2	1:M:229:TYR:H	2.05	0.52
1:M:404:LYS:HG3	1:M:404:LYS:O	2.10	0.52
1:M:496:GLU:HG2	6:R:99:LEU:HA	1.92	0.52
1:M:1076:GLU:HB3	1:M:1077:PRO:CD	2.39	0.52
5:Q:81:PHE:CD2	5:Q:110:ILE:HG21	2.45	0.52
8:T:48:PRO:O	8:T:49:VAL:HG23	2.09	0.52
11:W:40:HIS:O	11:W:41:THR:C	2.52	0.52
1:A:850:MET:HG3	1:A:850:MET:O	2.09	0.52
1:A:854:ASP:OD1	1:A:854:ASP:C	2.53	0.52
2:B:37:SER:O	2:B:403:GLY:HA3	2.09	0.52
2:B:326:ILE:HG22	2:B:326:ILE:O	2.10	0.52
2:B:971:THR:OG1	3:C:60:GLU:HG3	2.10	0.52
5:E:41:PHE:HZ	5:E:57:MET:CE	2.22	0.52
6:F:96:THR:O	6:F:100:GLN:HG3	2.10	0.52
7:G:44:TYR:O	7:G:78:VAL:HG12	2.10	0.52
1:M:79:GLY:H	2:N:1205:GLN:HE22	1.57	0.52
1:M:444:LEU:CD1	1:M:456:MET:HB3	2.27	0.52
2:N:551:LEU:HD11	2:N:619:ILE:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:859:TYR:CZ	2:N:941:LEU:HD12	2.44	0.52
2:N:971:THR:OG1	3:O:60:GLU:HG3	2.10	0.52
10:V:27:GLU:O	10:V:29:LYS:N	2.43	0.52
1:A:44:SER:O	1:A:45:ARG:HB2	2.10	0.51
1:A:371:ILE:HD12	1:A:469:PHE:CE2	2.46	0.51
1:A:846:LEU:O	1:A:847:GLU:C	2.53	0.51
1:A:1015:ASN:O	1:A:1017:THR:N	2.43	0.51
1:A:1144:THR:O	1:A:1147:ASN:CG	2.52	0.51
1:A:1215:ALA:O	1:A:1216:ASP:C	2.53	0.51
1:A:1376:ASP:CA	1:A:1379:THR:HG22	2.39	0.51
2:B:540:ILE:H	2:B:605:GLU:CD	2.19	0.51
2:B:1159:ARG:CG	2:B:1193:GLN:HE21	2.23	0.51
2:B:1172:ILE:O	2:B:1172:ILE:CG2	2.58	0.51
3:C:168:ALA:C	3:C:170:TRP:H	2.18	0.51
4:D:24:ASN:O	7:G:83:LYS:HB2	2.10	0.51
5:E:16:ARG:HH11	5:E:16:ARG:CG	2.23	0.51
5:E:89:ILE:HG21	5:E:118:SER:CA	2.40	0.51
7:G:47:THR:O	7:G:76:ALA:HB1	2.09	0.51
7:G:153:ASP:CG	7:G:154:VAL:N	2.67	0.51
1:M:606:MET:HE3	1:M:607:LEU:N	2.23	0.51
1:M:689:GLU:C	1:M:691:VAL:H	2.18	0.51
1:M:850:MET:HG3	1:M:850:MET:O	2.09	0.51
2:N:166:ARG:HG3	2:N:166:ARG:NH1	2.22	0.51
2:N:515:VAL:HG13	2:N:531:ASN:O	2.10	0.51
2:N:702:MET:N	2:N:707:LEU:HD12	2.25	0.51
2:N:997:GLU:HB3	3:O:34:ARG:HB3	1.92	0.51
2:N:1169:MET:HE1	2:N:1201:LYS:O	2.10	0.51
2:N:1172:ILE:O	2:N:1172:ILE:CG2	2.58	0.51
4:P:67:ARG:HD2	4:P:93:THR:HB	1.92	0.51
5:Q:41:PHE:HZ	5:Q:57:MET:CE	2.23	0.51
7:S:44:TYR:O	7:S:78:VAL:HG12	2.10	0.51
8:T:6:PHE:O	8:T:58:THR:HG23	2.11	0.51
1:A:494:GLN:H	1:A:498:THR:HG21	1.75	0.51
1:A:629:GLY:O	1:A:633:THR:HG22	2.11	0.51
1:A:689:GLU:C	1:A:691:VAL:H	2.18	0.51
1:A:887:ILE:CG2	1:A:888:PRO:N	2.73	0.51
1:A:902:LEU:HD11	1:A:985:ILE:CD1	2.40	0.51
1:A:1294:VAL:HG13	1:A:1295:PRO:HD2	1.92	0.51
2:B:702:MET:N	2:B:707:LEU:HD12	2.25	0.51
2:B:1169:MET:HE1	2:B:1201:LYS:O	2.10	0.51
2:B:1176:LYS:C	2:B:1178:ASN:N	2.66	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1198:TYR:CD2	2:B:1198:TYR:C	2.87	0.51
3:C:9:ILE:CD1	11:K:108:GLU:HB3	2.37	0.51
4:D:41:HIS:C	4:D:41:HIS:ND1	2.68	0.51
4:D:182:GLU:O	4:D:183:ASP:C	2.53	0.51
6:F:111:ILE:C	6:F:113:GLY:H	2.18	0.51
7:G:111:SER:C	7:G:113:ARG:N	2.68	0.51
8:H:99:THR:HG22	8:H:100:VAL:N	2.25	0.51
11:K:84:LYS:O	11:K:87:LEU:HB3	2.10	0.51
1:M:321:ARG:NH2	1:M:324:LYS:HE3	2.24	0.51
1:M:360:LEU:O	1:M:361:GLU:C	2.53	0.51
1:M:568:LYS:HB3	8:T:94:TYR:C	2.35	0.51
1:M:685:SER:O	1:M:688:LYS:HB2	2.11	0.51
1:M:931:ASN:O	1:M:932:SER:C	2.53	0.51
1:M:1068:VAL:O	1:M:1072:GLN:HG3	2.10	0.51
1:M:1215:ALA:O	1:M:1216:ASP:C	2.53	0.51
2:N:326:ILE:O	2:N:326:ILE:HG22	2.10	0.51
2:N:986:GLN:OE1	2:N:986:GLN:HA	2.09	0.51
2:N:1198:TYR:C	2:N:1198:TYR:CD2	2.87	0.51
3:O:251:LEU:HG	11:W:98:LEU:HD11	1.92	0.51
7:S:111:SER:CB	7:S:114:LEU:HD13	2.39	0.51
12:X:32:THR:HG22	12:X:33:CYS:N	2.24	0.51
1:A:66:LYS:O	1:A:67:CYS:HB2	2.09	0.51
1:A:381:VAL:HG13	1:A:386:ILE:HG12	1.92	0.51
1:A:607:LEU:HB3	1:A:615:PHE:CD2	2.46	0.51
2:B:847:ASP:OD2	11:K:6:ARG:NH2	2.43	0.51
3:C:179:GLU:HG2	3:C:180:TYR:N	2.26	0.51
3:C:251:LEU:HG	11:K:98:LEU:HD11	1.92	0.51
4:D:47:ASP:O	4:D:48:LEU:O	2.29	0.51
6:F:82:THR:CG2	6:F:84:TYR:HB2	2.41	0.51
7:G:50:ASP:OD1	7:G:50:ASP:O	2.28	0.51
9:I:15:TYR:N	9:I:15:TYR:CD1	2.77	0.51
10:J:1:MET:H1	10:J:56:ILE:N	2.05	0.51
12:L:36:CYS:O	12:L:38:HIS:N	2.44	0.51
1:M:20:GLY:C	1:M:21:LEU:HD23	2.36	0.51
1:M:606:MET:HG2	1:M:622:THR:CG2	2.40	0.51
2:N:38:PHE:CD2	2:N:164:MET:HB3	2.45	0.51
2:N:607:SER:HA	2:N:694:GLU:OE1	2.11	0.51
2:N:812:LEU:C	2:N:814:PHE:N	2.66	0.51
2:N:1158:PHE:HE2	2:N:1201:LYS:HD2	1.75	0.51
2:N:1198:TYR:HE2	2:N:1202:LEU:HD12	1.75	0.51
3:O:166:GLU:CG	11:W:10:PHE:HZ	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:59:PHE:C	5:Q:59:PHE:CD2	2.87	0.51
7:S:160:ILE:HG22	7:S:161:GLY:H	1.76	0.51
1:A:269:ASP:HB3	1:A:300:HIS:CE1	2.45	0.51
1:A:445:PHE:CB	1:A:459:HIS:CD2	2.94	0.51
1:A:1204:MET:HE1	1:A:1214:VAL:HG21	1.91	0.51
2:B:637:GLU:OE1	2:B:637:GLU:HA	2.10	0.51
2:B:913:GLY:HA2	2:B:938:SER:OG	2.10	0.51
4:D:65:LYS:O	4:D:69:ARG:HG3	2.10	0.51
5:E:59:PHE:C	5:E:59:PHE:CD2	2.87	0.51
5:E:160:LYS:C	5:E:162:GLN:N	2.68	0.51
11:K:21:ILE:HG23	11:K:31:ILE:CG1	2.40	0.51
11:K:47:ARG:HB3	11:K:47:ARG:HH11	1.75	0.51
1:M:38:PRO:HG2	1:M:39:GLU:OE1	2.11	0.51
1:M:496:GLU:CB	6:R:99:LEU:HA	2.40	0.51
1:M:546:GLN:HG2	1:M:550:MET:CE	2.38	0.51
1:M:648:GLY:O	1:M:652:LYS:HG3	2.11	0.51
1:M:857:THR:HB	1:M:866:GLN:HB2	1.92	0.51
1:M:1017:THR:OG1	1:M:1018:SER:N	2.43	0.51
1:M:1343:GLY:O	1:M:1344:ILE:C	2.53	0.51
2:N:290:LEU:CD1	2:N:306:LEU:HD13	2.41	0.51
2:N:859:TYR:N	2:N:859:TYR:CD1	2.78	0.51
2:N:913:GLY:HA2	2:N:938:SER:OG	2.10	0.51
3:O:54:THR:O	3:O:54:THR:HG22	2.10	0.51
5:Q:95:PHE:CE2	5:Q:109:PHE:HB2	2.45	0.51
5:Q:156:SER:OG	5:Q:159:GLU:HG3	2.10	0.51
6:R:96:THR:O	6:R:100:GLN:HG3	2.11	0.51
7:S:15:PRO:HA	7:S:18:PHE:CD1	2.44	0.51
10:V:20:ALA:O	10:V:24:LEU:HG	2.10	0.51
1:A:445:PHE:CB	1:A:459:HIS:HD2	2.24	0.51
1:A:857:THR:HB	1:A:866:GLN:HB2	1.93	0.51
1:A:1076:GLU:HB3	1:A:1077:PRO:HD3	1.92	0.51
1:A:1146:LYS:HA	1:A:1271:LEU:HD22	1.93	0.51
2:B:370:PHE:O	2:B:373:TYR:N	2.44	0.51
2:B:576:ASN:HD21	2:B:621:THR:HB	1.75	0.51
2:B:986:GLN:OE1	2:B:986:GLN:HA	2.10	0.51
3:C:81:TYR:CD2	3:C:161:LYS:HB3	2.45	0.51
3:C:201:TRP:CE3	3:C:202:PRO:HD2	2.45	0.51
10:J:47:ARG:HD2	10:J:47:ARG:C	2.36	0.51
1:M:43:GLU:HB2	1:M:46:GLN:HB2	1.90	0.51
1:M:239:VAL:CG1	1:M:239:VAL:CA	2.79	0.51
1:M:316:LEU:HD13	1:M:320:GLY:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:371:ILE:HD12	1:M:469:PHE:CE2	2.45	0.51
1:M:666:GLY:O	1:M:667:ILE:C	2.54	0.51
1:M:799:GLY:CA	1:M:816:PHE:CD1	2.84	0.51
1:M:846:LEU:O	1:M:847:GLU:C	2.53	0.51
1:M:1376:ASP:CA	1:M:1379:THR:HG22	2.40	0.51
1:M:1440:GLY:O	1:M:1442:GLY:N	2.43	0.51
2:N:575:VAL:O	2:N:575:VAL:HG12	2.08	0.51
2:N:576:ASN:HD21	2:N:621:THR:HB	1.75	0.51
2:N:609:ILE:HD13	2:N:618:LYS:HB2	1.91	0.51
2:N:847:ASP:OD2	11:W:6:ARG:NH2	2.43	0.51
4:P:65:LYS:C	4:P:67:ARG:N	2.65	0.51
4:P:65:LYS:O	4:P:69:ARG:HG3	2.10	0.51
5:Q:16:ARG:HH11	5:Q:16:ARG:CG	2.23	0.51
1:A:666:GLY:O	1:A:667:ILE:C	2.54	0.51
1:A:931:ASN:O	1:A:932:SER:C	2.53	0.51
1:A:1344:ILE:HG23	1:A:1345:GLU:N	2.26	0.51
2:B:549:ASN:C	2:B:551:LEU:H	2.18	0.51
2:B:812:LEU:O	2:B:814:PHE:N	2.44	0.51
2:B:857:ARG:NH1	2:B:945:GLU:OE2	2.43	0.51
2:B:1167:GLY:O	2:B:1168:LEU:HD23	2.09	0.51
2:B:1197:PRO:HG2	2:B:1200:ALA:CB	2.40	0.51
3:C:26:LEU:O	3:C:27:SER:C	2.54	0.51
8:H:6:PHE:O	8:H:58:THR:HG23	2.11	0.51
9:I:14:LEU:HD22	9:I:28:SER:O	2.10	0.51
1:M:44:SER:O	1:M:45:ARG:HB2	2.10	0.51
1:M:269:ASP:HB3	1:M:300:HIS:CE1	2.45	0.51
1:M:445:PHE:HB2	1:M:459:HIS:HD2	1.75	0.51
1:M:624:GLY:C	1:M:626:GLY:H	2.18	0.51
1:M:776:ILE:HG23	1:M:819:MET:SD	2.50	0.51
1:M:1275:ALA:C	1:M:1276:LEU:HD12	2.35	0.51
1:M:1444:PHE:HA	6:R:137:TYR:CD1	2.40	0.51
2:N:825:VAL:HG12	2:N:826:ALA:N	2.24	0.51
2:N:976:ILE:HG12	2:N:993:THR:HG23	1.93	0.51
2:N:1197:PRO:HG2	2:N:1200:ALA:CB	2.40	0.51
9:U:32:CYS:SG	9:U:33:ASP:N	2.81	0.51
11:W:53:TYR:HB3	11:W:56:VAL:HG23	1.91	0.51
1:A:263:LEU:HD11	1:A:326:ILE:HG12	1.93	0.51
1:A:445:PHE:HB2	1:A:459:HIS:HD2	1.75	0.51
1:A:578:LEU:O	1:A:581:ILE:CG2	2.36	0.51
1:A:739:LYS:H	1:A:739:LYS:CD	2.07	0.51
1:A:1032:ARG:HB3	1:A:1032:ARG:HH11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1068:VAL:O	1:A:1072:GLN:HG3	2.10	0.51
2:B:997:GLU:HB3	3:C:34:ARG:HB3	1.92	0.51
5:E:81:PHE:CG	5:E:110:ILE:HG21	2.46	0.51
1:M:66:LYS:O	1:M:67:CYS:HB2	2.09	0.51
1:M:110:CYS:SG	1:M:111:GLY:N	2.84	0.51
1:M:147:VAL:O	1:M:149:GLU:N	2.44	0.51
1:M:472:ASN:O	1:M:475:VAL:HG12	2.10	0.51
1:M:473:LEU:HD11	2:N:835:GLN:NE2	2.26	0.51
1:M:1146:LYS:HA	1:M:1271:LEU:HD22	1.93	0.51
1:M:1367:ASN:ND2	1:M:1368:TYR:N	2.56	0.51
2:N:180:LEU:O	2:N:183:MET:N	2.41	0.51
2:N:637:GLU:HA	2:N:637:GLU:OE1	2.09	0.51
4:P:47:ASP:O	4:P:48:LEU:O	2.29	0.51
5:Q:199:ARG:HG3	5:Q:199:ARG:HH11	1.76	0.51
1:A:147:VAL:O	1:A:149:GLU:N	2.44	0.51
1:A:447:ARG:CD	1:A:481:ALA:HB2	2.35	0.51
1:A:640:PRO:HG2	1:A:641:LYS:N	2.25	0.51
1:A:643:CYS:O	1:A:646:LEU:HB3	2.10	0.51
1:A:1412:LEU:CD1	2:B:1207:LEU:HD11	2.41	0.51
2:B:545:GLU:C	2:B:547:ILE:N	2.69	0.51
2:B:954:LEU:HA	2:B:964:VAL:HG22	1.93	0.51
3:C:38:ALA:HA	3:C:164:ALA:CB	2.39	0.51
3:C:235:THR:OG1	10:J:13:VAL:HG22	2.10	0.51
8:H:12:VAL:HG13	8:H:26:ILE:HG21	1.93	0.51
1:M:218:GLU:O	1:M:222:ARG:CG	2.59	0.51
1:M:333:LYS:O	1:M:334:GLU:CB	2.53	0.51
1:M:381:VAL:HG13	1:M:386:ILE:HG12	1.92	0.51
1:M:498:THR:HG23	2:N:1146:PHE:HD1	1.75	0.51
1:M:629:GLY:O	1:M:633:THR:HG22	2.10	0.51
1:M:640:PRO:HG2	1:M:641:LYS:N	2.25	0.51
1:M:1294:VAL:HG13	1:M:1295:PRO:HD2	1.92	0.51
2:N:27:GLU:OE1	2:N:678:TRP:HB3	2.11	0.51
2:N:363:PHE:O	2:N:364:GLU:C	2.53	0.51
2:N:763:GLN:HG2	2:N:765:PRO:CG	2.39	0.51
3:O:26:LEU:O	3:O:27:SER:C	2.54	0.51
3:O:168:ALA:C	3:O:170:TRP:H	2.18	0.51
4:P:94:SER:C	4:P:96:ALA:N	2.69	0.51
1:A:110:CYS:SG	1:A:111:GLY:N	2.84	0.51
1:A:368:PRO:O	1:A:369:ILE:C	2.54	0.51
1:A:504:GLN:NE2	6:F:90:ARG:NH2	2.52	0.51
1:A:606:MET:HG2	1:A:622:THR:CG2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:228:VAL:HG22	2:B:248:LYS:HA	1.93	0.51
2:B:515:VAL:HG13	2:B:531:ASN:O	2.10	0.51
2:B:542:SER:O	2:B:621:THR:HG21	2.11	0.51
2:B:824:ILE:HG12	10:J:47:ARG:NH1	2.26	0.51
3:C:166:GLU:CG	11:K:10:PHE:HZ	2.23	0.51
1:M:887:ILE:CG2	1:M:888:PRO:N	2.73	0.51
2:N:201:LYS:HE2	2:N:455:ALA:O	2.11	0.51
2:N:370:PHE:O	2:N:373:TYR:N	2.44	0.51
2:N:466:MET:C	2:N:468:SER:H	2.18	0.51
2:N:540:ILE:H	2:N:605:GLU:CD	2.19	0.51
2:N:826:ALA:HB2	2:N:1008:PRO:HB3	1.93	0.51
2:N:864:LYS:O	2:N:872:GLU:HG3	2.09	0.51
2:N:1217:TYR:HE2	4:P:14:ARG:N	2.09	0.51
4:P:182:GLU:O	4:P:183:ASP:C	2.53	0.51
5:Q:84:GLU:O	5:Q:86:SER:N	2.39	0.51
6:R:111:ILE:C	6:R:113:GLY:H	2.18	0.51
8:T:36:ILE:CG1	8:T:36:ILE:CA	2.81	0.51
1:A:38:PRO:HG2	1:A:39:GLU:OE1	2.11	0.51
1:A:316:LEU:HD13	1:A:320:GLY:O	2.11	0.51
1:A:360:LEU:O	1:A:361:GLU:C	2.53	0.51
1:A:685:SER:O	1:A:688:LYS:HB2	2.11	0.51
1:A:936:GLN:O	1:A:939:SER:N	2.42	0.51
1:A:1017:THR:OG1	1:A:1018:SER:N	2.43	0.51
1:A:1200:ASP:HB3	1:A:1203:ARG:CB	2.41	0.51
2:B:107:ARG:HG2	2:B:955:THR:HG21	1.92	0.51
2:B:702:MET:H	2:B:707:LEU:CD1	2.24	0.51
2:B:826:ALA:HB2	2:B:1008:PRO:HB3	1.93	0.51
2:B:859:TYR:N	2:B:859:TYR:CD1	2.78	0.51
3:C:5:PRO:HB3	3:C:24:VAL:CG1	2.36	0.51
3:C:44:ALA:CA	3:C:71:LEU:HD12	2.40	0.51
10:J:19:ASP:O	10:J:23:ARG:HB2	2.11	0.51
11:K:87:LEU:O	11:K:87:LEU:HD12	2.11	0.51
1:M:607:LEU:HB3	1:M:615:PHE:CD2	2.46	0.51
1:M:902:LEU:HD11	1:M:985:ILE:CD1	2.40	0.51
2:N:755:ILE:CG2	2:N:809:MET:HE2	2.31	0.51
2:N:812:LEU:O	2:N:814:PHE:N	2.44	0.51
7:S:14:HIS:HD2	7:S:16:SER:HB3	1.71	0.51
7:S:111:SER:C	7:S:113:ARG:N	2.68	0.51
7:S:114:LEU:HB3	7:S:162:SER:CB	2.41	0.51
7:S:153:ASP:CG	7:S:154:VAL:N	2.67	0.51
9:U:100:PHE:N	9:U:100:PHE:CD1	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:15:LYS:HB3	2:B:1220:ARG:NH2	2.26	0.50
1:A:303:THR:HG22	1:A:304:TYR:H	1.75	0.50
1:A:400:HIS:CB	1:A:401:PRO:HD3	2.36	0.50
1:A:568:LYS:HB3	8:H:94:TYR:C	2.35	0.50
1:A:624:GLY:C	1:A:626:GLY:H	2.18	0.50
1:A:803:ASN:ND2	1:A:810:THR:HG23	2.25	0.50
2:B:290:LEU:CD1	2:B:306:LEU:HD13	2.40	0.50
2:B:705:GLU:HG3	2:B:706:ASP:H	1.77	0.50
2:B:906:SER:O	2:B:941:LEU:HD23	2.11	0.50
3:C:54:THR:O	3:C:54:THR:HG22	2.10	0.50
5:E:123:ILE:C	5:E:125:THR:H	2.20	0.50
5:E:199:ARG:HH11	5:E:199:ARG:HG3	1.76	0.50
8:H:12:VAL:HG13	8:H:26:ILE:CG2	2.41	0.50
11:K:5:ASP:HB3	11:K:7:PHE:CE2	2.46	0.50
1:M:75:ALA:CA	2:N:1116:ARG:HH12	2.23	0.50
1:M:173:PRO:HD3	1:M:186:TRP:HE1	1.74	0.50
1:M:227:GLU:O	1:M:227:GLU:HG2	2.10	0.50
1:M:263:LEU:HD11	1:M:326:ILE:HG12	1.93	0.50
1:M:504:GLN:HE21	6:R:90:ARG:NH2	2.09	0.50
1:M:575:GLY:O	1:M:576:LYS:C	2.54	0.50
1:M:623:VAL:O	1:M:623:VAL:HG13	2.11	0.50
1:M:854:ASP:OD1	1:M:854:ASP:C	2.53	0.50
1:M:1032:ARG:HB3	1:M:1032:ARG:HH11	1.75	0.50
3:O:31:SER:OG	11:W:45:LEU:HD13	2.11	0.50
3:O:81:TYR:CD2	3:O:161:LYS:HB3	2.46	0.50
10:V:47:ARG:HD2	10:V:47:ARG:C	2.36	0.50
12:X:36:CYS:O	12:X:38:HIS:N	2.44	0.50
1:A:446:ASN:CB	1:A:456:MET:HG2	2.41	0.50
1:A:472:ASN:O	1:A:475:VAL:HG12	2.10	0.50
1:A:575:GLY:O	1:A:576:LYS:C	2.54	0.50
1:A:828:THR:HA	1:A:831:LYS:HE2	1.93	0.50
2:B:201:LYS:HE2	2:B:455:ALA:O	2.11	0.50
2:B:206:GLN:NE2	2:B:206:GLN:HA	2.26	0.50
2:B:266:PRO:HG3	2:B:352:GLU:HB3	1.91	0.50
2:B:806:THR:H	2:B:809:MET:HG3	1.76	0.50
3:C:164:ALA:CB	3:C:171:SER:CB	2.85	0.50
4:D:53:LEU:HD12	4:D:147:SER:HB2	1.93	0.50
1:M:15:LYS:HB3	2:N:1220:ARG:NH2	2.26	0.50
1:M:68:GLN:C	1:M:70:CYS:H	2.19	0.50
1:M:419:HIS:CG	1:M:421:ARG:H	2.29	0.50
1:M:684:ILE:O	1:M:688:LYS:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:195:VAL:HG13	2:N:198:GLY:O	2.12	0.50
2:N:229:ALA:O	2:N:247:ILE:HG22	2.11	0.50
2:N:281:LEU:HD21	2:N:364:GLU:O	2.11	0.50
2:N:542:SER:O	2:N:621:THR:HG21	2.11	0.50
2:N:545:GLU:C	2:N:547:ILE:N	2.69	0.50
2:N:1176:LYS:C	2:N:1178:ASN:N	2.66	0.50
4:P:53:LEU:HD12	4:P:147:SER:HB2	1.93	0.50
4:P:106:LEU:O	4:P:110:ASN:HB2	2.12	0.50
5:Q:146:HIS:CD2	5:Q:148:LEU:H	2.29	0.50
6:R:82:THR:CG2	6:R:84:TYR:HB2	2.41	0.50
6:R:127:GLN:O	6:R:129:LYS:HG2	2.12	0.50
8:T:99:THR:HG22	8:T:100:VAL:N	2.25	0.50
11:W:87:LEU:O	11:W:87:LEU:HD12	2.11	0.50
1:A:108:MET:C	1:A:110:CYS:N	2.69	0.50
1:A:377:TYR:OH	1:A:499:ARG:HD2	2.11	0.50
1:A:419:HIS:CG	1:A:421:ARG:H	2.29	0.50
1:A:755:SER:O	1:A:756:PHE:C	2.55	0.50
1:A:1050:THR:O	1:A:1051:ILE:C	2.55	0.50
2:B:249:LEU:O	2:B:249:LEU:HG	2.10	0.50
2:B:252:ARG:HB3	2:B:252:ARG:HH11	1.77	0.50
2:B:542:SER:H	2:B:621:THR:HG23	1.76	0.50
2:B:1116:ARG:CG	2:B:1198:TYR:CD1	2.95	0.50
2:B:1159:ARG:HD3	2:B:1193:GLN:CG	2.41	0.50
5:E:133:THR:C	5:E:134:PHE:HD1	2.20	0.50
8:H:82:LYS:C	8:H:84:THR:H	2.20	0.50
9:I:100:PHE:N	9:I:100:PHE:CD1	2.79	0.50
1:M:101:LYS:HA	1:M:104:GLU:OE1	2.12	0.50
1:M:826:ILE:HD12	2:N:506:GLN:NE2	2.26	0.50
1:M:828:THR:HA	1:M:831:LYS:HE2	1.93	0.50
2:N:252:ARG:NH1	2:N:252:ARG:HB3	2.27	0.50
2:N:535:LEU:CG	2:N:747:MET:HE3	2.41	0.50
2:N:549:ASN:C	2:N:551:LEU:H	2.18	0.50
2:N:702:MET:H	2:N:707:LEU:CD1	2.24	0.50
2:N:824:ILE:HG12	10:V:47:ARG:NH1	2.26	0.50
2:N:1159:ARG:CG	2:N:1193:GLN:HE21	2.23	0.50
3:O:251:LEU:HD12	3:O:251:LEU:C	2.36	0.50
4:P:41:HIS:ND1	4:P:41:HIS:C	2.68	0.50
1:A:513:VAL:HG13	1:A:513:VAL:O	2.12	0.50
1:A:649:ASN:O	1:A:650:ILE:C	2.55	0.50
1:A:684:ILE:O	1:A:688:LYS:HG3	2.11	0.50
1:A:842:LEU:HD22	1:A:1374:LEU:HD22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1376:ASP:C	1:A:1379:THR:HG22	2.37	0.50
2:B:162:PRO:HD2	2:B:450:LEU:HD13	1.93	0.50
2:B:535:LEU:CG	2:B:747:MET:HE3	2.41	0.50
2:B:607:SER:HA	2:B:694:GLU:OE1	2.11	0.50
2:B:1117:GLN:HG3	2:B:1156:ASP:CG	2.36	0.50
6:F:72:LEU:O	6:F:73:ALA:HB2	2.12	0.50
1:M:76:GLU:N	2:N:1116:ARG:HH12	2.10	0.50
1:M:669:ASP:CG	1:M:743:ASN:HD22	2.19	0.50
1:M:1207:LYS:O	1:M:1208:GLN:O	2.30	0.50
1:M:1376:ASP:C	1:M:1379:THR:HG22	2.37	0.50
1:M:1412:LEU:CD1	2:N:1207:LEU:HD11	2.41	0.50
2:N:1221:SER:OG	4:P:12:ARG:CB	2.58	0.50
4:P:53:LEU:HD22	4:P:108:TYR:HE2	1.75	0.50
1:A:68:GLN:C	1:A:70:CYS:H	2.19	0.50
1:A:473:LEU:HD11	2:B:835:GLN:NE2	2.26	0.50
1:A:776:ILE:CG2	1:A:819:MET:SD	3.00	0.50
1:A:831:LYS:HD2	1:A:1081:MET:O	2.11	0.50
1:A:976:ASP:C	1:A:978:ALA:H	2.20	0.50
2:B:27:GLU:OE1	2:B:678:TRP:HB3	2.11	0.50
2:B:1001:PHE:O	2:B:1072:MET:HA	2.12	0.50
5:E:81:PHE:CD2	5:E:110:ILE:HG21	2.46	0.50
6:F:97:ARG:HG2	6:F:130:ILE:HG23	1.93	0.50
1:M:344:LYS:HE3	2:N:1151:LEU:HA	1.94	0.50
1:M:1200:ASP:HB3	1:M:1203:ARG:CB	2.41	0.50
1:M:1344:ILE:HG23	1:M:1345:GLU:N	2.26	0.50
2:N:860:MET:CB	2:N:965:LYS:HG2	2.42	0.50
4:P:49:ILE:O	4:P:49:ILE:HG22	2.11	0.50
4:P:166:LYS:O	4:P:167:LYS:CB	2.59	0.50
5:Q:81:PHE:HA	5:Q:110:ILE:HG22	1.92	0.50
11:W:47:ARG:HB3	11:W:47:ARG:HH11	1.75	0.50
1:A:101:LYS:HA	1:A:104:GLU:OE1	2.12	0.50
1:A:227:GLU:O	1:A:227:GLU:HG2	2.10	0.50
1:A:382:THR:C	1:A:384:TYR:H	2.20	0.50
1:A:404:LYS:HG3	1:A:404:LYS:O	2.10	0.50
1:A:669:ASP:CG	1:A:743:ASN:HD22	2.19	0.50
1:A:1386:ALA:O	1:A:1391:GLY:HA3	2.12	0.50
2:B:16:ASP:CG	2:B:652:ILE:HD13	2.37	0.50
2:B:227:HIS:CE1	2:B:382:ALA:HA	2.47	0.50
2:B:280:ALA:CA	2:B:322:ALA:HB1	2.42	0.50
2:B:353:LEU:O	2:B:354:LEU:C	2.54	0.50
3:C:31:SER:OG	11:K:45:LEU:HD13	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:49:ILE:HG22	4:D:49:ILE:O	2.11	0.50
4:D:138:HIS:O	4:D:140:PHE:N	2.45	0.50
10:J:43:TYR:HD2	10:J:43:TYR:H	1.58	0.50
1:M:413:ARG:NH2	2:N:1108:ARG:NH2	2.59	0.50
1:M:843:VAL:C	1:M:845:ALA:N	2.68	0.50
1:M:1318:GLU:C	1:M:1320:MET:H	2.19	0.50
2:N:196:ILE:HD11	2:N:454:LEU:HD23	1.94	0.50
2:N:227:HIS:CE1	2:N:382:ALA:HA	2.47	0.50
2:N:228:VAL:HG22	2:N:248:LYS:HA	1.93	0.50
2:N:252:ARG:HB3	2:N:252:ARG:HH11	1.76	0.50
2:N:559:LEU:O	2:N:560:GLU:C	2.55	0.50
2:N:572:ARG:HG2	2:N:572:ARG:HH11	1.76	0.50
2:N:777:ALA:CB	2:N:1093:GLN:HB3	2.42	0.50
2:N:806:THR:H	2:N:809:MET:HG3	1.76	0.50
2:N:906:SER:O	2:N:941:LEU:HD23	2.11	0.50
2:N:954:LEU:HA	2:N:964:VAL:HG22	1.93	0.50
2:N:1106:ARG:CZ	2:N:1109:GLY:H	2.24	0.50
3:O:179:GLU:HG2	3:O:180:TYR:N	2.26	0.50
3:O:201:TRP:CE3	3:O:202:PRO:HD2	2.45	0.50
5:Q:54:ARG:C	5:Q:56:LEU:N	2.69	0.50
5:Q:90:LYS:C	5:Q:92:MET:N	2.63	0.50
1:A:338:ARG:CG	2:B:1132:GLU:OE1	2.60	0.50
1:A:1007:GLU:O	1:A:1008:LEU:C	2.53	0.50
1:A:1172:VAL:HG12	1:A:1176:PHE:CE1	2.47	0.50
1:A:1343:GLY:O	1:A:1344:ILE:C	2.53	0.50
2:B:381:CYS:C	2:B:383:LEU:N	2.70	0.50
2:B:777:ALA:CB	2:B:1093:GLN:HB3	2.42	0.50
2:B:866:PHE:C	2:B:868:ILE:N	2.66	0.50
2:B:1115:THR:O	2:B:1198:TYR:CG	2.64	0.50
2:B:1158:PHE:HE2	2:B:1201:LYS:HD2	1.76	0.50
5:E:164:LEU:HD22	5:E:169:LEU:HB2	1.93	0.50
7:G:38:CYS:SG	7:G:157:ILE:HG13	2.52	0.50
7:G:87:VAL:HG21	7:G:103:VAL:HG11	1.94	0.50
7:G:114:LEU:HB3	7:G:162:SER:CB	2.42	0.50
11:K:68:PHE:N	11:K:68:PHE:CD2	2.76	0.50
1:M:368:PRO:O	1:M:369:ILE:C	2.54	0.50
1:M:943:PHE:CD2	1:M:944:LEU:HD23	2.44	0.50
2:N:587:SER:HA	2:N:610:ARG:HH12	1.76	0.50
2:N:1163:CYS:HB3	2:N:1166:CYS:O	2.12	0.50
3:O:99:GLU:CG	3:O:121:VAL:HG22	2.41	0.50
4:P:94:SER:O	4:P:96:ALA:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:32:GLU:O	5:Q:35:ASP:N	2.45	0.50
5:Q:113:ASN:O	5:Q:114:ASN:HB3	2.12	0.50
8:T:12:VAL:HG13	8:T:26:ILE:CG2	2.41	0.50
8:T:12:VAL:HG13	8:T:26:ILE:HG21	1.93	0.50
10:V:43:TYR:H	10:V:43:TYR:HD2	1.58	0.50
11:W:5:ASP:HB3	11:W:7:PHE:CE2	2.46	0.50
1:A:53:LEU:O	1:A:54:ASN:C	2.55	0.50
1:A:218:GLU:O	1:A:222:ARG:CG	2.59	0.50
1:A:615:PHE:HB3	8:H:121:LEU:HD21	1.94	0.50
2:B:195:VAL:HG13	2:B:198:GLY:O	2.12	0.50
2:B:281:LEU:HD21	2:B:364:GLU:O	2.11	0.50
2:B:1106:ARG:CZ	2:B:1109:GLY:H	2.24	0.50
2:B:1200:ALA:O	2:B:1201:LYS:C	2.54	0.50
3:C:251:LEU:HD12	3:C:251:LEU:C	2.36	0.50
4:D:106:LEU:O	4:D:110:ASN:HB2	2.12	0.50
5:E:32:GLU:O	5:E:35:ASP:N	2.45	0.50
5:E:146:HIS:CD2	5:E:148:LEU:H	2.29	0.50
7:G:1:MET:O	7:G:3:PHE:CE1	2.64	0.50
10:J:42:ARG:N	10:J:42:ARG:CD	2.71	0.50
1:M:362:LEU:HA	1:M:472:ASN:HD22	1.77	0.50
1:M:439:ASP:O	1:M:440:ASP:HB2	2.12	0.50
1:M:1076:GLU:HB3	1:M:1077:PRO:HD3	1.93	0.50
1:M:1405:PHE:CZ	1:M:1406:GLU:HG3	2.47	0.50
2:N:573:ILE:O	2:N:579:TRP:HD1	1.95	0.50
5:Q:123:ILE:C	5:Q:125:THR:H	2.19	0.50
7:S:38:CYS:SG	7:S:157:ILE:HG13	2.52	0.50
1:A:20:GLY:C	1:A:21:LEU:HD23	2.36	0.50
1:A:286:PRO:O	1:A:288:HIS:N	2.45	0.50
1:A:623:VAL:O	1:A:623:VAL:HG13	2.11	0.50
1:A:999:LEU:HD13	1:A:1020:PHE:CE2	2.47	0.50
2:B:252:ARG:HB3	2:B:252:ARG:NH1	2.27	0.50
2:B:457:GLY:C	2:B:458:ASN:HD22	2.20	0.50
2:B:519:GLU:HB2	2:B:752:ALA:HB3	1.94	0.50
2:B:890:TYR:CA	2:B:910:ILE:CG2	2.83	0.50
4:D:94:SER:C	4:D:96:ALA:H	2.19	0.50
1:M:445:PHE:CB	1:M:459:HIS:CD2	2.94	0.50
1:M:1007:GLU:O	1:M:1008:LEU:C	2.54	0.50
2:N:112:SER:HB2	2:N:161:VAL:O	2.12	0.50
2:N:176:ASP:O	2:N:177:GLU:C	2.55	0.50
5:Q:41:PHE:HZ	5:Q:57:MET:HE3	1.77	0.50
5:Q:115:ILE:HG22	5:Q:119:ALA:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:87:VAL:HG21	7:S:103:VAL:HG11	1.94	0.50
1:A:35:ILE:O	1:A:35:ILE:CG2	2.59	0.49
2:B:572:ARG:HG2	2:B:572:ARG:HH11	1.76	0.49
2:B:860:MET:CB	2:B:965:LYS:HG2	2.42	0.49
9:I:106:CYS:SG	9:I:108:LYS:N	2.85	0.49
10:J:27:GLU:C	10:J:29:LYS:N	2.68	0.49
1:M:445:PHE:CB	1:M:459:HIS:HD2	2.24	0.49
1:M:528:THR:HG21	1:M:651:GLN:HG3	1.94	0.49
1:M:635:MET:CG	1:M:643:CYS:SG	3.00	0.49
1:M:930:LEU:HD23	1:M:985:ILE:HG21	1.94	0.49
2:N:394:PHE:HB2	2:N:510:THR:HB	1.93	0.49
2:N:757:PRO:HG3	2:N:1028:GLU:OE2	2.12	0.49
5:Q:133:THR:C	5:Q:134:PHE:HD1	2.20	0.49
5:Q:201:SER:C	5:Q:203:THR:H	2.20	0.49
6:R:97:ARG:HG2	6:R:130:ILE:HG23	1.93	0.49
11:W:21:ILE:HG23	11:W:31:ILE:CG1	2.42	0.49
12:X:57:VAL:HG23	12:X:58:ILE:H	1.77	0.49
1:A:135:PHE:HB2	1:A:224:GLY:H	1.77	0.49
1:A:249:PRO:O	1:A:261:ASP:HB2	2.11	0.49
1:A:1392:ILE:C	1:A:1394:ARG:H	2.20	0.49
2:B:54:PRO:O	2:B:55:ARG:C	2.55	0.49
2:B:231:ILE:CG2	2:B:245:MET:HB3	2.42	0.49
2:B:792:MET:HE2	2:B:857:ARG:HH22	1.76	0.49
3:C:10:ILE:O	3:C:11:ASN:C	2.55	0.49
3:C:99:GLU:CG	3:C:121:VAL:HG22	2.40	0.49
5:E:21:MET:HE1	5:E:25:ARG:HH21	1.77	0.49
5:E:201:SER:C	5:E:203:THR:H	2.19	0.49
1:M:40:ILE:HG22	1:M:41:MET:HG3	1.94	0.49
1:M:755:SER:O	1:M:756:PHE:C	2.55	0.49
1:M:870:GLY:O	1:M:871:GLU:HB2	2.12	0.49
1:M:1437:ALA:O	1:M:1439:MET:N	2.45	0.49
2:N:302:MET:HE2	2:N:379:LEU:HB2	1.95	0.49
2:N:371:LEU:O	2:N:371:LEU:HD12	2.12	0.49
2:N:792:MET:HE2	2:N:857:ARG:HH22	1.76	0.49
2:N:810:GLU:HA	2:N:815:ARG:NH1	2.16	0.49
2:N:1023:VAL:O	2:N:1026:LEU:N	2.45	0.49
2:N:1200:ALA:O	2:N:1201:LYS:C	2.54	0.49
3:O:65:ARG:HH21	10:V:5:VAL:H	1.60	0.49
1:A:72:GLU:O	1:A:73:GLY:O	2.30	0.49
1:A:362:LEU:HA	1:A:472:ASN:HD22	1.77	0.49
1:A:780:PHE:O	1:A:781:ALA:C	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1335:PHE:CE1	1:A:1351:LEU:HD13	2.48	0.49
2:B:112:SER:HB2	2:B:161:VAL:O	2.12	0.49
2:B:1163:CYS:HB3	2:B:1166:CYS:O	2.12	0.49
4:D:166:LYS:O	4:D:167:LYS:CB	2.59	0.49
7:G:14:HIS:CD2	7:G:16:SER:CB	2.94	0.49
1:M:244:PRO:HB2	1:M:245:PRO:HD2	1.94	0.49
1:M:601:PRO:HG2	1:M:602:LYS:H	1.77	0.49
1:M:831:LYS:HD2	1:M:1081:MET:O	2.11	0.49
1:M:853:TYR:CD2	1:M:1062:PRO:HB2	2.48	0.49
1:M:1335:PHE:CE1	1:M:1351:LEU:HD13	2.48	0.49
2:N:1001:PHE:O	2:N:1072:MET:HA	2.12	0.49
2:N:1017:ILE:HB	2:N:1018:PRO:HD3	1.94	0.49
9:U:106:CYS:SG	9:U:108:LYS:N	2.85	0.49
10:V:2:ILE:HG23	10:V:3:ILE:H	1.74	0.49
10:V:19:ASP:O	10:V:23:ARG:HB2	2.11	0.49
1:A:574:THR:O	1:A:577:GLN:HB2	2.13	0.49
1:A:591:ARG:HB2	1:A:606:MET:HB3	1.94	0.49
1:A:601:PRO:HG2	1:A:602:LYS:H	1.77	0.49
1:A:1207:LYS:O	1:A:1208:GLN:O	2.30	0.49
1:A:1321:ALA:HB1	5:E:140:VAL:HG11	1.93	0.49
2:B:549:ASN:C	2:B:551:LEU:N	2.69	0.49
2:B:573:ILE:O	2:B:579:TRP:HD1	1.95	0.49
2:B:758:PHE:C	2:B:760:ASP:N	2.70	0.49
2:B:882:THR:HB	2:B:934:LYS:O	2.12	0.49
2:B:976:ILE:HG12	2:B:993:THR:HG23	1.93	0.49
2:B:997:GLU:CD	2:B:997:GLU:H	2.20	0.49
2:B:1017:ILE:HB	2:B:1018:PRO:HD3	1.94	0.49
2:B:1198:TYR:HE2	2:B:1202:LEU:HD12	1.75	0.49
9:I:10:CYS:O	9:I:11:ASN:C	2.55	0.49
1:M:249:PRO:O	1:M:261:ASP:HB2	2.11	0.49
1:M:606:MET:HE3	1:M:615:PHE:O	2.12	0.49
1:M:702:GLU:O	1:M:703:LEU:HG	2.13	0.49
1:M:1050:THR:O	1:M:1051:ILE:C	2.55	0.49
1:M:1335:PHE:O	1:M:1336:VAL:C	2.56	0.49
1:M:1386:ALA:O	1:M:1391:GLY:HA3	2.12	0.49
2:N:16:ASP:CG	2:N:652:ILE:HD13	2.37	0.49
2:N:549:ASN:C	2:N:551:LEU:N	2.69	0.49
2:N:654:LYS:HD3	2:N:676:TYR:CE2	2.47	0.49
2:N:705:GLU:HG3	2:N:706:ASP:H	1.77	0.49
2:N:796:LEU:O	2:N:797:TYR:C	2.55	0.49
2:N:908:ASP:O	2:N:909:ASP:C	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:94:SER:C	4:P:96:ALA:H	2.19	0.49
5:Q:39:GLU:C	5:Q:41:PHE:H	2.20	0.49
7:S:1:MET:O	7:S:3:PHE:CE1	2.65	0.49
7:S:88:ASP:CB	7:S:144:ARG:HA	2.24	0.49
7:S:145:LEU:CG	7:S:146:LYS:H	2.26	0.49
8:T:107:ASP:O	8:T:108:GLU:C	2.55	0.49
11:W:13:PRO:O	11:W:14:ASP:C	2.56	0.49
1:A:19:PHE:O	1:A:1419:ALA:HA	2.12	0.49
1:A:40:ILE:HG22	1:A:41:MET:HG3	1.94	0.49
1:A:261:ASP:CG	1:A:262:ASP:N	2.71	0.49
1:A:608:ILE:HG12	1:A:613:VAL:HA	1.94	0.49
1:A:648:GLY:O	1:A:652:LYS:HG3	2.11	0.49
1:A:702:GLU:O	1:A:703:LEU:HG	2.13	0.49
1:A:755:SER:H	1:A:758:ASN:HD22	1.61	0.49
1:A:1405:PHE:CZ	1:A:1406:GLU:HG3	2.47	0.49
2:B:37:SER:HG	2:B:404:PRO:HD3	1.77	0.49
2:B:757:PRO:HG3	2:B:1028:GLU:OE2	2.12	0.49
2:B:810:GLU:HA	2:B:815:ARG:NH1	2.16	0.49
3:C:33:ARG:HG2	3:C:34:ARG:N	2.27	0.49
4:D:158:THR:HG22	4:D:159:LEU:HD23	1.94	0.49
7:G:122:ASN:OD1	7:G:125:ASN:HB3	2.13	0.49
8:H:25:ARG:HA	8:H:41:ASP:HA	1.95	0.49
11:K:13:PRO:O	11:K:14:ASP:C	2.56	0.49
1:M:333:LYS:HA	1:M:338:ARG:HD2	1.94	0.49
1:M:377:TYR:OH	1:M:499:ARG:HD2	2.11	0.49
1:M:591:ARG:HB2	1:M:606:MET:HB3	1.95	0.49
1:M:902:LEU:HD22	1:M:920:ILE:HG22	1.94	0.49
1:M:999:LEU:HD13	1:M:1020:PHE:CE2	2.48	0.49
1:M:1448:ILE:HG23	7:S:61:ILE:CG1	2.43	0.49
2:N:231:ILE:CG2	2:N:245:MET:HB3	2.43	0.49
2:N:353:LEU:O	2:N:354:LEU:C	2.54	0.49
2:N:758:PHE:C	2:N:760:ASP:H	2.20	0.49
2:N:997:GLU:H	2:N:997:GLU:CD	2.20	0.49
2:N:1073:TYR:N	2:N:1073:TYR:CD1	2.80	0.49
4:P:67:ARG:C	4:P:69:ARG:N	2.71	0.49
4:P:95:GLY:O	4:P:96:ALA:CB	2.58	0.49
4:P:138:HIS:O	4:P:140:PHE:N	2.45	0.49
5:Q:21:MET:HB2	5:Q:186:TYR:CE1	2.48	0.49
5:Q:54:ARG:C	5:Q:56:LEU:H	2.21	0.49
5:Q:148:LEU:O	5:Q:150:PRO:HD3	2.13	0.49
5:Q:194:VAL:HG12	5:Q:195:VAL:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:35:GLU:OE2	7:S:48:VAL:HG23	2.12	0.49
11:W:10:PHE:N	11:W:10:PHE:HD2	2.10	0.49
1:A:410:ASN:O	1:A:411:GLY:C	2.56	0.49
1:A:630:LEU:CA	1:A:633:THR:HG22	2.43	0.49
2:B:439:LEU:O	2:B:440:ALA:HB3	2.12	0.49
2:B:559:LEU:O	2:B:560:GLU:C	2.55	0.49
2:B:758:PHE:C	2:B:760:ASP:H	2.20	0.49
2:B:801:LYS:O	10:J:51:THR:CG2	2.56	0.49
4:D:25:ALA:C	4:D:27:LEU:N	2.70	0.49
4:D:94:SER:O	4:D:96:ALA:N	2.45	0.49
5:E:148:LEU:O	5:E:150:PRO:HD3	2.13	0.49
7:G:35:GLU:OE2	7:G:48:VAL:HG23	2.12	0.49
9:I:80:SER:HB2	9:I:103:CYS:SG	2.53	0.49
11:K:6:ARG:O	11:K:9:LEU:HG	2.13	0.49
12:L:57:VAL:HG23	12:L:58:ILE:H	1.77	0.49
1:M:72:GLU:O	1:M:73:GLY:O	2.30	0.49
1:M:90:VAL:CG1	1:M:298:GLN:NE2	2.75	0.49
1:M:135:PHE:HB2	1:M:224:GLY:H	1.77	0.49
1:M:286:PRO:O	1:M:288:HIS:N	2.45	0.49
1:M:344:LYS:O	2:N:1129:ARG:CG	2.61	0.49
1:M:377:TYR:CZ	1:M:499:ARG:HD2	2.48	0.49
1:M:476:THR:CG2	1:M:477:SER:H	2.25	0.49
1:M:649:ASN:O	1:M:650:ILE:C	2.55	0.49
1:M:842:LEU:HD22	1:M:1374:LEU:HD22	1.94	0.49
2:N:542:SER:H	2:N:621:THR:HG23	1.76	0.49
2:N:1138:MET:HE2	2:N:1146:PHE:HD2	1.77	0.49
3:O:92:ASP:OD1	3:O:122:SER:HB2	2.12	0.49
6:R:105:ALA:HB1	6:R:106:PRO:CD	2.43	0.49
9:U:10:CYS:O	9:U:11:ASN:C	2.55	0.49
1:A:90:VAL:CG1	1:A:298:GLN:NE2	2.75	0.49
1:A:288:HIS:O	1:A:292:GLU:OE2	2.30	0.49
1:A:630:LEU:HA	1:A:633:THR:HG22	1.95	0.49
1:A:646:LEU:HD11	1:A:650:ILE:HD11	1.94	0.49
1:A:853:TYR:CD1	6:F:136:ARG:HB3	2.47	0.49
1:A:859:ASN:C	1:A:859:ASN:ND2	2.60	0.49
1:A:1450:GLU:CG	7:G:22:MET:CG	2.91	0.49
2:B:176:ASP:O	2:B:177:GLU:C	2.55	0.49
2:B:196:ILE:HD11	2:B:454:LEU:HD23	1.94	0.49
2:B:466:MET:C	2:B:468:SER:H	2.18	0.49
2:B:1117:GLN:NE2	2:B:1156:ASP:OD2	2.46	0.49
5:E:115:ILE:HG22	5:E:119:ALA:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:153:ASP:CG	7:G:154:VAL:HG23	2.38	0.49
7:G:160:ILE:HG22	7:G:161:GLY:H	1.75	0.49
1:M:261:ASP:CG	1:M:262:ASP:N	2.71	0.49
1:M:326:ILE:HG22	2:N:1210:MET:HE2	1.95	0.49
1:M:338:ARG:HG3	1:M:840:ARG:NH2	2.28	0.49
1:M:382:THR:O	1:M:384:TYR:N	2.45	0.49
1:M:786:PRO:HG2	2:N:700:ILE:HD12	1.95	0.49
1:M:899:TYR:HB2	1:M:934:TYR:CE1	2.48	0.49
1:M:1172:VAL:HG12	1:M:1176:PHE:CE1	2.47	0.49
1:M:1441:THR:HB	2:N:1142:GLY:O	2.12	0.49
2:N:31:VAL:O	2:N:32:SER:C	2.54	0.49
2:N:280:ALA:CA	2:N:322:ALA:HB1	2.42	0.49
2:N:825:VAL:CG1	2:N:826:ALA:N	2.76	0.49
2:N:834:ASN:O	2:N:1013:ASN:HB2	2.13	0.49
9:U:80:SER:HB2	9:U:103:CYS:SG	2.53	0.49
12:X:61:ALA:O	12:X:62:ARG:O	2.30	0.49
1:A:801:VAL:HG22	1:A:813:GLU:CB	2.43	0.49
1:A:1084:ASN:HB3	1:A:1086:PHE:CD1	2.41	0.49
2:B:12:ILE:HG23	2:B:652:ILE:CD1	2.42	0.49
2:B:821:GLN:HE22	2:B:851:PHE:N	2.00	0.49
2:B:825:VAL:CG1	2:B:826:ALA:N	2.76	0.49
2:B:834:ASN:O	2:B:1013:ASN:HB2	2.13	0.49
2:B:1130:PHE:O	2:B:1131:GLY:O	2.31	0.49
4:D:94:SER:C	4:D:96:ALA:N	2.69	0.49
4:D:95:GLY:O	4:D:96:ALA:CB	2.58	0.49
5:E:41:PHE:HZ	5:E:57:MET:HE3	1.77	0.49
5:E:54:ARG:C	5:E:56:LEU:N	2.69	0.49
6:F:75:LEU:C	6:F:77:GLU:N	2.69	0.49
10:J:38:LEU:O	10:J:39:LYS:CB	2.61	0.49
1:M:34:LYS:HD3	1:M:34:LYS:H	1.78	0.49
1:M:53:LEU:O	1:M:54:ASN:C	2.55	0.49
1:M:100:LYS:HG3	1:M:182:LEU:HD22	1.95	0.49
1:M:147:VAL:O	1:M:149:GLU:HG3	2.13	0.49
1:M:371:ILE:HD12	1:M:469:PHE:HE2	1.77	0.49
1:M:615:PHE:HB3	8:T:121:LEU:HD21	1.94	0.49
1:M:630:LEU:CA	1:M:633:THR:HG22	2.43	0.49
1:M:853:TYR:OH	1:M:1444:PHE:HD2	1.94	0.49
1:M:1401:MET:HB2	1:M:1429:GLU:OE2	2.13	0.49
2:N:609:ILE:HD13	2:N:618:LYS:CB	2.43	0.49
2:N:634:GLU:C	2:N:636:ASP:N	2.71	0.49
2:N:744:HIS:O	2:N:747:MET:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1106:ARG:HD3	2:N:1126:GLY:O	2.12	0.49
3:O:44:ALA:CA	3:O:71:LEU:HD12	2.40	0.49
3:O:142:ILE:H	10:V:16:ASP:HB3	1.78	0.49
5:Q:81:PHE:CG	5:Q:110:ILE:HG21	2.47	0.49
5:Q:164:LEU:HD22	5:Q:169:LEU:HB2	1.93	0.49
7:S:14:HIS:CD2	7:S:16:SER:CB	2.94	0.49
9:U:32:CYS:O	9:U:33:ASP:CG	2.56	0.49
10:V:38:LEU:O	10:V:39:LYS:CB	2.61	0.49
1:A:333:LYS:HA	1:A:338:ARG:HD2	1.94	0.49
1:A:371:ILE:HD12	1:A:469:PHE:HE2	1.77	0.49
1:A:377:TYR:CZ	1:A:499:ARG:HD2	2.48	0.49
1:A:591:ARG:HG3	1:A:591:ARG:HH11	1.76	0.49
1:A:606:MET:HE3	1:A:615:PHE:O	2.12	0.49
1:A:815:PHE:O	1:A:818:ALA:N	2.45	0.49
1:A:930:LEU:HD23	1:A:985:ILE:HG21	1.94	0.49
2:B:363:PHE:O	2:B:364:GLU:C	2.54	0.49
2:B:654:LYS:HD3	2:B:676:TYR:CE2	2.48	0.49
2:B:768:THR:O	2:B:771:SER:HB2	2.13	0.49
2:B:1106:ARG:HD3	2:B:1126:GLY:O	2.12	0.49
5:E:194:VAL:HG12	5:E:195:VAL:N	2.27	0.49
6:F:81:THR:HB	6:F:136:ARG:HH11	1.78	0.49
10:J:13:VAL:C	10:J:14:VAL:HG23	2.38	0.49
11:K:40:HIS:ND1	11:K:61:TYR:OH	2.38	0.49
1:M:24:PRO:HD2	1:M:234:TRP:CD1	2.48	0.49
1:M:739:LYS:C	1:M:741:LEU:H	2.20	0.49
1:M:1065:MET:SD	1:M:1439:MET:CG	3.01	0.49
2:N:54:PRO:O	2:N:55:ARG:C	2.55	0.49
2:N:381:CYS:C	2:N:383:LEU:N	2.70	0.49
2:N:439:LEU:O	2:N:440:ALA:HB3	2.12	0.49
3:O:10:ILE:O	3:O:11:ASN:C	2.55	0.49
3:O:174:SER:O	3:O:175:ALA:HB3	2.13	0.49
5:Q:21:MET:HE1	5:Q:25:ARG:HH21	1.77	0.49
1:A:417:ARG:C	1:A:418:TYR:CD2	2.91	0.49
1:A:476:THR:CG2	1:A:477:SER:H	2.25	0.49
1:A:635:MET:CG	1:A:643:CYS:SG	3.00	0.49
1:A:853:TYR:CD2	1:A:1062:PRO:HB2	2.47	0.49
1:A:854:ASP:OD1	1:A:856:THR:N	2.46	0.49
1:A:859:ASN:ND2	1:A:861:LEU:N	2.59	0.49
1:A:1163:THR:CG2	1:A:1165:ILE:H	2.25	0.49
2:B:376:ASN:C	2:B:380:LEU:HD13	2.38	0.49
2:B:796:LEU:O	2:B:797:TYR:C	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:908:ASP:O	2:B:909:ASP:C	2.55	0.49
2:B:1156:ASP:HB3	2:B:1197:PRO:HA	1.94	0.49
3:C:92:ASP:OD1	3:C:122:SER:HB2	2.12	0.49
3:C:174:SER:O	3:C:175:ALA:HB3	2.13	0.49
7:G:6:ASP:HB3	7:G:73:LYS:HZ1	1.78	0.49
7:G:35:GLU:CG	7:G:48:VAL:HG23	2.43	0.49
9:I:32:CYS:O	9:I:33:ASP:CG	2.56	0.49
11:K:49:GLU:HG3	11:K:94:ILE:CG1	2.34	0.49
1:M:382:THR:C	1:M:384:TYR:H	2.20	0.49
1:M:646:LEU:HD11	1:M:650:ILE:HD11	1.94	0.49
1:M:853:TYR:CD1	6:R:136:ARG:HB3	2.47	0.49
1:M:854:ASP:OD1	1:M:856:THR:N	2.46	0.49
1:M:869:TYR:HE1	1:M:1066:VAL:CG1	2.26	0.49
1:M:976:ASP:C	1:M:978:ALA:H	2.20	0.49
2:N:519:GLU:HB2	2:N:752:ALA:HB3	1.94	0.49
2:N:980:PHE:CA	2:N:1095:LEU:HD13	2.43	0.49
6:R:76:LYS:O	6:R:79:ARG:HD3	2.13	0.49
7:S:35:GLU:CG	7:S:48:VAL:HG23	2.43	0.49
8:T:19:ARG:C	8:T:20:TYR:HD2	2.21	0.49
10:V:44:CYS:O	10:V:47:ARG:HG3	2.13	0.49
1:A:100:LYS:HG3	1:A:182:LEU:HD22	1.95	0.48
1:A:310:ALA:O	1:A:312:GLN:N	2.46	0.48
1:A:344:LYS:HE3	2:B:1151:LEU:HA	1.94	0.48
1:A:943:PHE:CD2	1:A:944:LEU:HD23	2.44	0.48
1:A:1276:LEU:HD12	1:A:1276:LEU:N	2.28	0.48
1:A:1401:MET:HB2	1:A:1429:GLU:OE2	2.13	0.48
1:A:1437:ALA:O	1:A:1439:MET:N	2.45	0.48
2:B:587:SER:HA	2:B:610:ARG:HH12	1.76	0.48
2:B:1023:VAL:O	2:B:1026:LEU:N	2.45	0.48
3:C:147:LEU:N	3:C:147:LEU:CD2	2.75	0.48
4:D:105:THR:OG1	7:G:105:PRO:HD3	2.13	0.48
5:E:21:MET:HB2	5:E:186:TYR:CE1	2.47	0.48
9:I:61:ASP:C	9:I:63:GLY:H	2.21	0.48
10:J:44:CYS:O	10:J:47:ARG:HG3	2.13	0.48
12:L:61:ALA:O	12:L:62:ARG:O	2.30	0.48
1:M:266:LYS:HE2	1:M:323:VAL:CG2	2.43	0.48
1:M:417:ARG:C	1:M:418:TYR:CD2	2.91	0.48
1:M:446:ASN:CB	1:M:456:MET:HG2	2.41	0.48
1:M:513:VAL:O	1:M:513:VAL:HG13	2.12	0.48
1:M:822:ARG:HG2	2:N:507:LEU:H	1.78	0.48
1:M:1321:ALA:HB1	5:Q:140:VAL:HG11	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:768:THR:O	2:N:771:SER:HB2	2.13	0.48
2:N:797:TYR:O	10:V:1:MET:HG2	2.13	0.48
2:N:1177:LYS:C	2:N:1179:GLN:H	2.21	0.48
4:P:35:ALA:C	4:P:37:LYS:N	2.70	0.48
6:R:72:LEU:O	6:R:73:ALA:HB2	2.12	0.48
6:R:81:THR:HB	6:R:136:ARG:HH11	1.78	0.48
7:S:89:ALA:CB	7:S:103:VAL:HA	2.41	0.48
7:S:153:ASP:CG	7:S:154:VAL:HG23	2.38	0.48
8:T:82:LYS:C	8:T:84:THR:H	2.20	0.48
10:V:27:GLU:C	10:V:29:LYS:N	2.68	0.48
1:A:22:LEU:HB2	2:B:1211:ASN:ND2	2.28	0.48
1:A:24:PRO:HD2	1:A:234:TRP:CD1	2.48	0.48
1:A:948:VAL:HG13	5:E:200:ARG:HB3	1.95	0.48
1:A:1318:GLU:C	1:A:1320:MET:H	2.20	0.48
2:B:235:LEU:HD11	2:B:359:GLN:HE21	1.78	0.48
2:B:816:GLU:O	2:B:817:LEU:HD23	2.13	0.48
2:B:876:LYS:HD2	2:B:893:LEU:O	2.13	0.48
5:E:39:GLU:C	5:E:41:PHE:H	2.20	0.48
7:G:22:MET:O	7:G:23:ASN:C	2.56	0.48
7:G:111:SER:CB	7:G:114:LEU:HD13	2.39	0.48
11:K:10:PHE:N	11:K:10:PHE:HD2	2.10	0.48
1:M:108:MET:O	1:M:110:CYS:N	2.47	0.48
1:M:303:THR:HG22	1:M:304:TYR:H	1.76	0.48
1:M:574:THR:O	1:M:577:GLN:HB2	2.13	0.48
1:M:608:ILE:HG12	1:M:613:VAL:HA	1.94	0.48
1:M:827:ASP:C	1:M:829:ALA:N	2.67	0.48
1:M:848:ASP:CB	1:M:1427:VAL:CG2	2.90	0.48
1:M:1129:ASP:CB	1:M:1132:LYS:HB3	2.42	0.48
1:M:1448:ILE:HG13	7:S:61:ILE:CG1	2.37	0.48
2:N:613:ARG:NH2	9:U:89:GLN:NE2	2.61	0.48
2:N:882:THR:HB	2:N:934:LYS:O	2.12	0.48
6:R:75:LEU:C	6:R:77:GLU:N	2.69	0.48
6:R:100:GLN:HE22	7:S:61:ILE:HD13	1.78	0.48
7:S:80:LYS:HE2	7:S:80:LYS:H	1.76	0.48
1:A:266:LYS:HE2	1:A:323:VAL:HG21	1.94	0.48
2:B:103:GLU:O	2:B:104:ALA:C	2.56	0.48
2:B:613:ARG:NH2	9:I:89:GLN:NE2	2.61	0.48
2:B:693:GLU:O	2:B:696:GLU:HB2	2.13	0.48
2:B:1069:PHE:CD1	2:B:1069:PHE:N	2.76	0.48
2:B:1159:ARG:HG3	2:B:1193:GLN:HE21	1.77	0.48
4:D:51:LEU:HD12	4:D:56:SER:HA	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:84:ILE:C	4:D:86:ASP:H	2.22	0.48
8:H:91:ASP:C	8:H:92:TYR:CD1	2.92	0.48
11:K:7:PHE:HA	11:K:10:PHE:HE2	1.76	0.48
1:M:19:PHE:O	1:M:1419:ALA:HA	2.12	0.48
1:M:75:ALA:CB	2:N:1116:ARG:NH1	2.76	0.48
1:M:93:ILE:HG21	1:M:305:MET:HB2	1.95	0.48
1:M:288:HIS:O	1:M:292:GLU:OE2	2.30	0.48
1:M:397:PRO:HG3	1:M:417:ARG:HB3	1.95	0.48
1:M:630:LEU:HA	1:M:633:THR:HG22	1.95	0.48
1:M:780:PHE:O	1:M:781:ALA:C	2.55	0.48
1:M:815:PHE:O	1:M:818:ALA:N	2.45	0.48
1:M:1266:ILE:O	1:M:1266:ILE:HG22	2.13	0.48
2:N:839:MET:HE1	2:N:980:PHE:CB	2.42	0.48
2:N:1162:VAL:HG12	2:N:1163:CYS:H	1.77	0.48
3:O:33:ARG:HG2	3:O:34:ARG:N	2.27	0.48
7:S:22:MET:O	7:S:23:ASN:C	2.56	0.48
7:S:111:SER:C	7:S:113:ARG:H	2.21	0.48
10:V:13:VAL:C	10:V:14:VAL:HG23	2.38	0.48
1:A:93:ILE:HG21	1:A:305:MET:HB2	1.95	0.48
1:A:114:LEU:HD13	1:A:172:GLN:NE2	2.28	0.48
1:A:244:PRO:HB2	1:A:245:PRO:HD2	1.94	0.48
1:A:413:ARG:NH2	2:B:1108:ARG:NH2	2.59	0.48
1:A:528:THR:HG21	1:A:651:GLN:HG3	1.94	0.48
1:A:902:LEU:HD22	1:A:920:ILE:HG22	1.94	0.48
1:A:1266:ILE:HG22	1:A:1266:ILE:O	2.13	0.48
2:B:758:PHE:HB2	2:B:1024:ALA:CB	2.41	0.48
2:B:1073:TYR:N	2:B:1073:TYR:CD1	2.80	0.48
2:B:1130:PHE:O	2:B:1130:PHE:CD2	2.66	0.48
5:E:92:MET:CE	5:E:119:ALA:HB1	2.42	0.48
5:E:108:ILE:O	5:E:108:ILE:HG22	2.12	0.48
1:M:320:GLY:CA	2:N:464:LYS:C	2.83	0.48
1:M:476:THR:HG23	1:M:477:SER:H	1.76	0.48
1:M:630:LEU:C	1:M:630:LEU:HD23	2.38	0.48
1:M:948:VAL:HG13	5:Q:200:ARG:HB3	1.95	0.48
2:N:103:GLU:O	2:N:104:ALA:C	2.56	0.48
2:N:112:SER:HB3	2:N:162:PRO:HA	1.95	0.48
2:N:206:GLN:NE2	2:N:206:GLN:HA	2.26	0.48
2:N:376:ASN:C	2:N:380:LEU:HD13	2.38	0.48
2:N:457:GLY:C	2:N:458:ASN:HD22	2.20	0.48
2:N:890:TYR:CA	2:N:910:ILE:HG21	2.40	0.48
2:N:1007:VAL:HG22	2:N:1008:PRO:CD	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1130:PHE:O	2:N:1130:PHE:CD2	2.66	0.48
2:N:1130:PHE:O	2:N:1131:GLY:O	2.31	0.48
2:N:1156:ASP:HB3	2:N:1197:PRO:HA	1.95	0.48
4:P:105:THR:OG1	7:S:105:PRO:HD3	2.12	0.48
4:P:158:THR:HG22	4:P:159:LEU:HD23	1.94	0.48
8:T:51:GLN:O	8:T:52:ASP:HB2	2.12	0.48
8:T:58:THR:HB	8:T:142:LEU:HB2	1.96	0.48
8:T:90:ASP:C	8:T:92:TYR:H	2.20	0.48
1:A:326:ILE:HG22	2:B:1210:MET:HE2	1.95	0.48
1:A:382:THR:O	1:A:384:TYR:N	2.45	0.48
1:A:739:LYS:C	1:A:741:LEU:H	2.20	0.48
1:A:823:GLU:O	1:A:826:ILE:HB	2.13	0.48
1:A:870:GLY:O	1:A:871:GLU:HB2	2.12	0.48
1:A:899:TYR:HB2	1:A:934:TYR:CE1	2.48	0.48
1:A:1129:ASP:CB	1:A:1132:LYS:HB3	2.42	0.48
1:A:1282:ILE:HD11	1:A:1319:VAL:HG21	1.96	0.48
2:B:86:ARG:HB3	2:B:87:PRO:CD	2.44	0.48
2:B:356:HIS:C	2:B:358:THR:H	2.21	0.48
2:B:371:LEU:O	2:B:371:LEU:HD12	2.12	0.48
2:B:572:ARG:O	2:B:616:GLU:HA	2.13	0.48
7:G:27:ARG:CG	7:G:54:ILE:HD12	2.44	0.48
7:G:145:LEU:CG	7:G:146:LYS:H	2.26	0.48
8:H:107:ASP:O	8:H:108:GLU:C	2.55	0.48
1:M:12:ARG:HG3	2:N:1192:TYR:CD2	2.49	0.48
1:M:22:LEU:HB2	2:N:1211:ASN:ND2	2.28	0.48
1:M:591:ARG:HG3	1:M:591:ARG:HH11	1.76	0.48
1:M:1276:LEU:HD12	1:M:1276:LEU:N	2.28	0.48
2:N:162:PRO:HD2	2:N:450:LEU:HD13	1.93	0.48
2:N:302:MET:O	2:N:305:MET:HB2	2.14	0.48
2:N:394:PHE:HZ	2:N:626:VAL:HG21	1.78	0.48
7:S:126:SER:HA	7:S:127:PRO:HA	1.73	0.48
8:T:138:ASN:O	8:T:139:LEU:CB	2.61	0.48
1:A:630:LEU:C	1:A:630:LEU:HD23	2.38	0.48
1:A:1450:GLU:HG2	7:G:22:MET:HB3	1.95	0.48
2:B:163:ILE:HG22	2:B:164:MET:N	2.28	0.48
2:B:812:LEU:C	2:B:814:PHE:H	2.21	0.48
3:C:112:ASP:HB2	3:C:114:TYR:HE1	1.76	0.48
5:E:152:HIS:O	5:E:153:ILE:CG1	2.54	0.48
8:H:4:ALA:HA	8:H:60:ALA:HB2	1.95	0.48
8:H:38:LEU:HD12	8:H:123:CYS:O	2.14	0.48
8:H:51:GLN:O	8:H:52:ASP:HB2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:266:LYS:HE2	1:M:323:VAL:HG21	1.94	0.48
1:M:549:ASN:HD21	11:W:47:ARG:NH2	2.12	0.48
1:M:787:HIS:CE1	2:N:702:MET:HE1	2.49	0.48
1:M:1122:LEU:O	1:M:1326:ASP:HB2	2.14	0.48
2:N:16:ASP:O	2:N:18:TRP:N	2.46	0.48
2:N:33:GLN:HG3	2:N:34:GLN:N	2.24	0.48
1:A:65:PHE:O	1:A:66:LYS:C	2.56	0.48
1:A:108:MET:O	1:A:110:CYS:N	2.47	0.48
1:A:147:VAL:O	1:A:149:GLU:HG3	2.13	0.48
1:A:266:LYS:HE2	1:A:323:VAL:CG2	2.43	0.48
1:A:345:ARG:HA	2:B:1129:ARG:HA	0.69	0.48
2:B:302:MET:HE2	2:B:379:LEU:HB2	1.95	0.48
2:B:628:ARG:NH1	2:B:742:GLU:OE2	2.45	0.48
2:B:797:TYR:O	10:J:1:MET:HG2	2.14	0.48
2:B:822:ASN:O	10:J:47:ARG:NH1	2.46	0.48
2:B:1201:LYS:CE	2:B:1205:GLN:OE1	2.62	0.48
3:C:181:ASP:CG	3:C:181:ASP:O	2.57	0.48
4:D:88:GLU:C	4:D:90:ALA:N	2.71	0.48
5:E:113:ASN:O	5:E:114:ASN:HB3	2.12	0.48
6:F:76:LYS:O	6:F:79:ARG:HD3	2.13	0.48
1:M:1282:ILE:HD11	1:M:1319:VAL:HG21	1.96	0.48
2:N:12:ILE:HG23	2:N:652:ILE:CD1	2.42	0.48
2:N:822:ASN:O	10:V:47:ARG:NH1	2.46	0.48
3:O:112:ASP:HB2	3:O:114:TYR:HE1	1.76	0.48
3:O:259:LEU:CD1	11:W:88:GLU:HA	2.44	0.48
8:T:91:ASP:C	8:T:92:TYR:CD1	2.92	0.48
9:U:61:ASP:C	9:U:63:GLY:H	2.21	0.48
1:A:439:ASP:O	1:A:440:ASP:HB2	2.12	0.48
1:A:476:THR:HG23	1:A:477:SER:H	1.76	0.48
1:A:1122:LEU:O	1:A:1326:ASP:HB2	2.13	0.48
2:B:16:ASP:O	2:B:18:TRP:N	2.46	0.48
2:B:586:PRO:O	2:B:587:SER:C	2.57	0.48
2:B:744:HIS:O	2:B:747:MET:HB2	2.13	0.48
3:C:166:GLU:C	11:K:6:ARG:NH1	2.72	0.48
8:H:59:LEU:O	8:H:60:ALA:HB3	2.14	0.48
8:H:138:ASN:O	8:H:139:LEU:CB	2.61	0.48
1:M:310:ALA:O	1:M:312:GLN:N	2.46	0.48
1:M:318:LYS:N	2:N:464:LYS:HE2	2.27	0.48
1:M:519:LYS:HB2	1:M:520:PRO:HD2	1.96	0.48
1:M:640:PRO:CG	1:M:641:LYS:H	2.25	0.48
1:M:776:ILE:CG2	1:M:819:MET:SD	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1388:THR:C	1:M:1390:HIS:N	2.71	0.48
2:N:395:GLY:CA	2:N:693:GLU:OE1	2.62	0.48
2:N:421:ILE:O	2:N:425:MET:HG3	2.13	0.48
2:N:509:ASN:H	2:N:509:ASN:ND2	2.07	0.48
2:N:816:GLU:O	2:N:817:LEU:HD23	2.13	0.48
2:N:976:ILE:HA	2:N:990:ILE:CG2	2.43	0.48
2:N:1149:GLU:HG3	2:N:1153:GLU:HG2	1.95	0.48
4:P:84:ILE:C	4:P:86:ASP:H	2.22	0.48
1:A:265:HIS:O	1:A:268:SER:N	2.47	0.48
1:A:549:ASN:HD21	11:K:47:ARG:NH2	2.12	0.48
1:A:566:ILE:HG22	1:A:570:LYS:O	2.14	0.48
1:A:710:THR:HG23	9:I:94:ASP:HA	1.96	0.48
1:A:786:PRO:HG2	2:B:700:ILE:HD12	1.94	0.48
1:A:1061:HIS:ND1	6:F:86:THR:HA	2.29	0.48
1:A:1109:VAL:O	1:A:1109:VAL:HG12	2.14	0.48
1:A:1283:SER:O	1:A:1284:LYS:O	2.32	0.48
2:B:112:SER:HB3	2:B:162:PRO:HA	1.96	0.48
2:B:980:PHE:CA	2:B:1095:LEU:HD13	2.43	0.48
2:B:1100:ASP:OD2	11:K:1:MET:CB	2.62	0.48
5:E:84:GLU:O	5:E:86:SER:N	2.39	0.48
5:E:136:GLU:C	5:E:138:ASP:H	2.22	0.48
5:E:179:ARG:NH2	5:E:191:ARG:HB2	2.29	0.48
8:H:90:ASP:O	8:H:92:TYR:N	2.41	0.48
1:M:55:ASP:O	1:M:57:LYS:N	2.46	0.48
1:M:75:ALA:HB1	2:N:1116:ARG:NH1	2.28	0.48
1:M:355:SER:HA	1:M:483:PHE:CD2	2.49	0.48
1:M:1316:LEU:C	1:M:1318:GLU:N	2.70	0.48
2:N:428:CYS:C	2:N:430:GLU:H	2.22	0.48
2:N:1013:ASN:OD1	2:N:1015:HIS:CD2	2.67	0.48
2:N:1100:ASP:OD2	11:W:1:MET:CB	2.62	0.48
5:Q:179:ARG:NH2	5:Q:191:ARG:HB2	2.29	0.48
10:V:36:ASP:CG	10:V:46:ARG:NH2	2.72	0.48
1:A:356:GLY:HA2	1:A:471:LEU:O	2.14	0.48
1:A:439:ASP:OD1	1:A:463:VAL:HG23	2.14	0.48
1:A:513:VAL:HA	1:A:520:PRO:HA	1.96	0.48
1:A:869:TYR:HE1	1:A:1066:VAL:CG1	2.26	0.48
1:A:1168:ASP:O	1:A:1169:PHE:C	2.57	0.48
2:B:203:LEU:HD13	2:B:405:LEU:HD12	1.95	0.48
2:B:1187:ASN:OD1	2:B:1188:LYS:N	2.47	0.48
3:C:32:LEU:CD1	3:C:36:MET:HE2	2.44	0.48
8:H:15:VAL:HA	8:H:26:ILE:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:90:ASP:C	8:H:92:TYR:H	2.20	0.48
1:M:253:MET:O	1:M:254:ASP:CB	2.59	0.48
1:M:566:ILE:O	1:M:571:PRO:HA	2.14	0.48
1:M:651:GLN:HG2	1:M:655:ASN:HD21	1.78	0.48
1:M:684:ILE:HG21	1:M:802:GLU:HG3	1.96	0.48
1:M:1006:ASN:O	1:M:1010:LYS:CG	2.62	0.48
1:M:1061:HIS:ND1	6:R:86:THR:HA	2.29	0.48
1:M:1065:MET:HG3	2:N:1139:ILE:O	2.13	0.48
1:M:1109:VAL:O	1:M:1109:VAL:HG12	2.14	0.48
2:N:18:TRP:HA	2:N:18:TRP:CE3	2.48	0.48
2:N:164:MET:HE2	2:N:192:GLY:O	2.14	0.48
2:N:876:LYS:HD2	2:N:893:LEU:O	2.13	0.48
3:O:32:LEU:CD1	3:O:36:MET:HE2	2.44	0.48
3:O:147:LEU:N	3:O:147:LEU:CD2	2.75	0.48
4:P:41:HIS:HB2	7:S:73:LYS:HZ2	1.75	0.48
4:P:160:ILE:HG22	4:P:160:ILE:O	2.14	0.48
5:Q:108:ILE:HG22	5:Q:108:ILE:O	2.12	0.48
7:S:122:ASN:OD1	7:S:125:ASN:HB3	2.13	0.48
8:T:25:ARG:HA	8:T:41:ASP:HA	1.95	0.48
11:W:6:ARG:O	11:W:9:LEU:HG	2.13	0.48
1:A:34:LYS:HD3	1:A:34:LYS:H	1.77	0.47
1:A:397:PRO:HG3	1:A:417:ARG:HB3	1.95	0.47
1:A:1388:THR:C	1:A:1390:HIS:N	2.71	0.47
2:B:224:PRO:HG2	2:B:225:ILE:CD1	2.44	0.47
2:B:301:GLN:O	2:B:304:GLU:HB3	2.13	0.47
2:B:1013:ASN:OD1	2:B:1015:HIS:CD2	2.67	0.47
3:C:17:VAL:HG23	3:C:240:ALA:HB1	1.96	0.47
6:F:105:ALA:HB1	6:F:106:PRO:CD	2.43	0.47
9:I:100:PHE:N	9:I:100:PHE:HD1	2.12	0.47
10:J:36:ASP:CG	10:J:46:ARG:NH2	2.72	0.47
1:M:65:PHE:O	1:M:66:LYS:C	2.56	0.47
1:M:1072:GLN:O	1:M:1073:SER:C	2.57	0.47
1:M:1116:PRO:O	1:M:1117:ALA:O	2.32	0.47
2:N:86:ARG:HB3	2:N:87:PRO:CD	2.44	0.47
2:N:555:GLY:HA3	2:N:583:HIS:HE1	1.75	0.47
2:N:812:LEU:C	2:N:814:PHE:H	2.21	0.47
2:N:1159:ARG:HG3	2:N:1193:GLN:HE21	1.77	0.47
2:N:1202:LEU:CD2	2:N:1206:GLU:CD	2.87	0.47
3:O:17:VAL:HG23	3:O:240:ALA:HB1	1.96	0.47
4:P:51:LEU:HD12	4:P:56:SER:HA	1.94	0.47
5:Q:77:LEU:HD21	5:Q:79:VAL:CG2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:27:ARG:CG	7:S:54:ILE:HD12	2.44	0.47
7:S:119:LEU:HD12	7:S:131:MET:O	2.14	0.47
8:T:59:LEU:O	8:T:60:ALA:HB3	2.14	0.47
1:A:145:LYS:C	1:A:146:MET:HG3	2.39	0.47
1:A:787:HIS:CE1	2:B:702:MET:HE1	2.49	0.47
1:A:1222:PHE:CE2	1:A:1266:ILE:HG23	2.49	0.47
1:A:1445:ASP:OD1	7:G:60:ARG:NH1	2.43	0.47
2:B:244:THR:CG2	2:B:245:MET:N	2.77	0.47
2:B:401:LEU:O	2:B:405:LEU:HG	2.14	0.47
2:B:509:ASN:H	2:B:509:ASN:ND2	2.07	0.47
2:B:588:MET:O	2:B:589:LEU:C	2.56	0.47
2:B:609:ILE:HD13	2:B:618:LYS:CB	2.43	0.47
3:C:129:VAL:HG22	3:C:130:GLY:N	2.28	0.47
1:M:40:ILE:C	1:M:41:MET:HG3	2.38	0.47
1:M:144:THR:O	1:M:146:MET:HG3	2.14	0.47
1:M:265:HIS:C	1:M:267:LEU:N	2.72	0.47
1:M:566:ILE:HG22	1:M:570:LYS:O	2.14	0.47
1:M:1168:ASP:O	1:M:1169:PHE:C	2.57	0.47
1:M:1352:TYR:HA	1:M:1375:VAL:HG21	1.96	0.47
1:M:1423:ASP:O	1:M:1424:CYS:CB	2.61	0.47
2:N:224:PRO:HG2	2:N:225:ILE:CD1	2.44	0.47
2:N:301:GLN:O	2:N:304:GLU:HB3	2.14	0.47
2:N:572:ARG:O	2:N:616:GLU:HA	2.14	0.47
2:N:588:MET:O	2:N:589:LEU:C	2.56	0.47
2:N:607:SER:HB2	2:N:691:ASP:OD1	2.14	0.47
2:N:612:ILE:O	2:N:614:GLU:N	2.47	0.47
2:N:1201:LYS:CE	2:N:1205:GLN:OE1	2.62	0.47
7:S:39:THR:O	7:S:43:GLY:N	2.32	0.47
1:A:116:ASP:C	1:A:118:THR:N	2.71	0.47
2:B:31:VAL:O	2:B:32:SER:C	2.54	0.47
2:B:354:LEU:N	2:B:355:PRO:CD	2.78	0.47
2:B:428:CYS:C	2:B:430:GLU:H	2.22	0.47
2:B:523:GLY:O	2:B:524:GLN:C	2.56	0.47
2:B:562:TYR:CE1	2:B:582:ILE:HG21	2.50	0.47
2:B:607:SER:HB2	2:B:691:ASP:OD1	2.14	0.47
2:B:983:ARG:HD2	2:B:1091:TYR:CD2	2.46	0.47
2:B:1135:ARG:HG2	2:B:1139:ILE:HD11	1.96	0.47
2:B:1154:ALA:O	2:B:1155:SER:HB2	2.14	0.47
2:B:1181:GLU:HG2	2:B:1188:LYS:HG2	1.97	0.47
7:G:89:ALA:CB	7:G:103:VAL:CA	2.91	0.47
8:H:19:ARG:C	8:H:20:TYR:HD2	2.21	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:710:THR:HG23	9:U:94:ASP:HA	1.96	0.47
2:N:163:ILE:HG22	2:N:164:MET:N	2.28	0.47
2:N:195:VAL:O	2:N:195:VAL:HG12	2.14	0.47
2:N:356:HIS:C	2:N:358:THR:H	2.21	0.47
2:N:693:GLU:O	2:N:696:GLU:HB2	2.13	0.47
5:Q:144:THR:HG21	5:Q:186:TYR:CE2	2.50	0.47
9:U:100:PHE:N	9:U:100:PHE:HD1	2.12	0.47
10:V:52:HIS:NE2	10:V:54:ASP:HA	2.30	0.47
1:A:326:ILE:CG2	2:B:1210:MET:HE2	2.45	0.47
1:A:504:GLN:HE21	6:F:90:ARG:NH2	2.09	0.47
1:A:524:ILE:HD12	1:A:623:VAL:HG21	1.97	0.47
1:A:542:ILE:HG21	1:A:550:MET:HE1	1.96	0.47
1:A:651:GLN:HG2	1:A:655:ASN:HD21	1.79	0.47
1:A:684:ILE:HG21	1:A:802:GLU:HG3	1.96	0.47
1:A:1072:GLN:O	1:A:1073:SER:C	2.57	0.47
1:A:1447:MET:C	7:G:59:GLY:O	2.56	0.47
1:A:1450:GLU:CD	7:G:23:ASN:HB2	2.30	0.47
2:B:174:THR:O	2:B:175:LEU:C	2.58	0.47
2:B:596:LEU:HD12	2:B:602:ILE:HG12	1.97	0.47
5:E:54:ARG:C	5:E:56:LEU:H	2.21	0.47
7:G:111:SER:C	7:G:113:ARG:H	2.21	0.47
7:G:119:LEU:HD12	7:G:131:MET:O	2.15	0.47
8:H:58:THR:HB	8:H:142:LEU:HB2	1.96	0.47
1:M:356:GLY:HA2	1:M:471:LEU:O	2.14	0.47
1:M:410:ASN:O	1:M:411:GLY:C	2.56	0.47
1:M:755:SER:H	1:M:758:ASN:HD22	1.60	0.47
1:M:1388:THR:O	1:M:1391:GLY:N	2.48	0.47
2:N:51:TRP:CG	2:N:51:TRP:CA	2.85	0.47
2:N:203:LEU:HD13	2:N:405:LEU:HD12	1.95	0.47
2:N:586:PRO:O	2:N:587:SER:C	2.57	0.47
2:N:899:ILE:CD1	2:N:911:ILE:HG23	2.40	0.47
2:N:1169:MET:HE1	2:N:1204:PHE:HB2	1.95	0.47
2:N:1187:ASN:OD1	2:N:1188:LYS:N	2.47	0.47
3:O:129:VAL:HG22	3:O:130:GLY:N	2.28	0.47
5:Q:136:GLU:C	5:Q:138:ASP:H	2.22	0.47
8:T:38:LEU:HD12	8:T:123:CYS:O	2.14	0.47
9:U:55:THR:O	9:U:56:ALA:O	2.32	0.47
10:V:23:ARG:O	10:V:25:LEU:N	2.47	0.47
1:A:373:LYS:HA	1:A:436:HIS:HD1	1.78	0.47
1:A:429:TYR:H	1:A:429:TYR:HD1	1.62	0.47
1:A:467:SER:HA	11:K:2:ASN:HD22	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:519:LYS:HB2	1:A:520:PRO:HD2	1.96	0.47
1:A:764:ALA:C	1:A:804:SER:HB3	2.38	0.47
1:A:852:HIS:HB2	1:A:856:THR:HG23	1.96	0.47
1:A:1125:GLU:O	1:A:1126:ILE:C	2.57	0.47
1:A:1169:PHE:O	1:A:1172:VAL:HG23	2.15	0.47
2:B:992:VAL:CG2	2:B:993:THR:N	2.78	0.47
2:B:1202:LEU:CD2	2:B:1206:GLU:CD	2.87	0.47
7:G:149:GLY:O	7:G:159:ALA:HB1	2.15	0.47
10:J:21:TYR:C	10:J:23:ARG:H	2.23	0.47
10:J:55:LEU:O	10:J:56:ILE:C	2.56	0.47
1:M:1195:LEU:HB2	1:M:1263:LEU:HD11	1.96	0.47
1:M:1197:LEU:HD11	1:M:1270:MET:CE	2.25	0.47
1:M:1241:ARG:NH2	1:M:1243:ARG:HH22	2.03	0.47
2:N:235:LEU:HD11	2:N:359:GLN:HE21	1.78	0.47
2:N:305:MET:O	2:N:308:PRO:HD2	2.15	0.47
2:N:523:GLY:O	2:N:524:GLN:C	2.56	0.47
2:N:1047:PHE:CD1	2:N:1047:PHE:N	2.80	0.47
2:N:1159:ARG:NH1	2:N:1159:ARG:CB	2.66	0.47
5:Q:41:PHE:CZ	5:Q:57:MET:HE3	2.49	0.47
1:A:859:ASN:C	1:A:861:LEU:H	2.23	0.47
1:A:890:SER:HB3	1:A:1300:GLU:HG2	1.96	0.47
1:A:1342:LEU:HD23	5:E:143:ILE:HG22	1.96	0.47
2:B:83:TYR:N	2:B:83:TYR:CD1	2.83	0.47
2:B:491:THR:HG21	2:B:530:LYS:HB2	1.96	0.47
2:B:976:ILE:HA	2:B:990:ILE:CG2	2.43	0.47
2:B:1169:MET:HE1	2:B:1204:PHE:HB2	1.94	0.47
3:C:65:ARG:HH21	10:J:5:VAL:H	1.60	0.47
1:M:67:CYS:O	1:M:68:GLN:CB	2.63	0.47
1:M:429:TYR:H	1:M:429:TYR:HD1	1.62	0.47
1:M:823:GLU:O	1:M:826:ILE:HB	2.13	0.47
1:M:965:ILE:HD13	1:M:1051:ILE:HG12	1.96	0.47
1:M:1392:ILE:C	1:M:1394:ARG:H	2.20	0.47
2:N:221:ALA:N	2:N:222:PRO:HD2	2.30	0.47
2:N:401:LEU:O	2:N:405:LEU:HG	2.14	0.47
2:N:857:ARG:HH11	2:N:945:GLU:CD	2.23	0.47
5:Q:81:PHE:N	5:Q:81:PHE:CD1	2.83	0.47
5:Q:142:ASN:ND2	5:Q:144:THR:OG1	2.48	0.47
7:S:125:ASN:CG	7:S:128:PRO:HA	2.40	0.47
8:T:15:VAL:HA	8:T:26:ILE:HG12	1.95	0.47
12:X:32:THR:HG22	12:X:33:CYS:H	1.79	0.47
1:A:40:ILE:C	1:A:41:MET:HG3	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:MET:O	1:A:254:ASP:CB	2.59	0.47
1:A:381:VAL:CG1	1:A:386:ILE:HG12	2.45	0.47
1:A:591:ARG:HH22	1:A:621:LYS:HB3	1.67	0.47
1:A:965:ILE:HD13	1:A:1051:ILE:HG12	1.96	0.47
1:A:1006:ASN:O	1:A:1010:LYS:CG	2.62	0.47
1:A:1156:TYR:CE2	1:A:1158:PRO:HD3	2.49	0.47
1:A:1268:ALA:O	1:A:1271:LEU:N	2.47	0.47
1:A:1316:LEU:C	1:A:1318:GLU:N	2.70	0.47
1:A:1352:TYR:HA	1:A:1375:VAL:HG21	1.96	0.47
2:B:18:TRP:HA	2:B:18:TRP:CE3	2.48	0.47
2:B:164:MET:HE2	2:B:192:GLY:O	2.14	0.47
2:B:199:SER:OG	2:B:201:LYS:NZ	2.48	0.47
2:B:221:ALA:N	2:B:222:PRO:HD2	2.30	0.47
2:B:239:SER:O	2:B:240:ARG:HB2	2.15	0.47
2:B:279:ARG:NH1	2:B:316:ILE:O	2.48	0.47
2:B:302:MET:O	2:B:305:MET:HB2	2.14	0.47
2:B:857:ARG:HH11	2:B:945:GLU:CD	2.23	0.47
3:C:142:ILE:H	10:J:16:ASP:HB3	1.78	0.47
3:C:236:GLY:O	3:C:237:SER:C	2.58	0.47
3:C:259:LEU:CD1	11:K:88:GLU:HA	2.44	0.47
4:D:35:ALA:C	4:D:37:LYS:N	2.70	0.47
4:D:141:GLU:C	4:D:143:ALA:H	2.22	0.47
4:D:160:ILE:HG22	4:D:160:ILE:O	2.15	0.47
5:E:181:ASP:HB3	5:E:184:ALA:CB	2.45	0.47
9:I:7:CYS:HB3	9:I:14:LEU:HD21	1.97	0.47
9:I:40:ASP:CG	9:I:41:PRO:CD	2.88	0.47
10:J:23:ARG:O	10:J:25:LEU:N	2.47	0.47
11:K:63:VAL:HG23	11:K:63:VAL:O	2.15	0.47
12:L:32:THR:HG22	12:L:33:CYS:H	1.79	0.47
1:M:145:LYS:C	1:M:146:MET:HG3	2.39	0.47
1:M:265:HIS:O	1:M:268:SER:N	2.47	0.47
1:M:297:LEU:O	1:M:301:VAL:HG23	2.15	0.47
1:M:467:SER:HA	11:W:2:ASN:HD22	1.79	0.47
1:M:764:ALA:C	1:M:804:SER:HB3	2.38	0.47
1:M:801:VAL:HG11	1:M:809:LEU:CD1	2.44	0.47
1:M:859:ASN:C	1:M:861:LEU:H	2.23	0.47
1:M:900:VAL:CG2	1:M:1031:ARG:HG2	2.41	0.47
1:M:1169:PHE:O	1:M:1172:VAL:HG23	2.15	0.47
1:M:1263:LEU:HG	1:M:1263:LEU:O	2.14	0.47
1:M:1393:ASN:CB	1:M:1405:PHE:HD2	2.27	0.47
2:N:83:TYR:N	2:N:83:TYR:CD1	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:219:LYS:O	2:N:220:ALA:O	2.32	0.47
2:N:489:ARG:NH1	2:N:532:LEU:HB2	2.30	0.47
2:N:777:ALA:HB1	2:N:1093:GLN:HB3	1.97	0.47
2:N:1117:GLN:HG3	2:N:1156:ASP:CG	2.38	0.47
3:O:166:GLU:C	11:W:6:ARG:NH1	2.72	0.47
3:O:168:ALA:C	3:O:170:TRP:N	2.72	0.47
3:O:181:ASP:CG	3:O:181:ASP:O	2.57	0.47
4:P:56:SER:O	4:P:60:ILE:HG13	2.15	0.47
5:Q:189:LEU:C	5:Q:190:LYS:HG3	2.40	0.47
7:S:149:GLY:O	7:S:159:ALA:HB1	2.15	0.47
10:V:55:LEU:O	10:V:56:ILE:C	2.56	0.47
11:W:7:PHE:HA	11:W:10:PHE:HE2	1.76	0.47
1:A:12:ARG:HB2	2:B:1218:THR:HG21	1.97	0.47
1:A:144:THR:O	1:A:146:MET:HG3	2.14	0.47
1:A:493:PRO:O	1:A:494:GLN:NE2	2.48	0.47
1:A:566:ILE:O	1:A:571:PRO:HA	2.15	0.47
1:A:640:PRO:CG	1:A:641:LYS:H	2.25	0.47
1:A:1342:LEU:HD13	5:E:146:HIS:CG	2.50	0.47
2:B:53:GLU:CG	2:B:53:GLU:O	2.63	0.47
2:B:421:ILE:O	2:B:425:MET:HG3	2.13	0.47
2:B:489:ARG:NH1	2:B:532:LEU:HB2	2.30	0.47
2:B:936:ASP:C	2:B:936:ASP:OD1	2.58	0.47
12:L:62:ARG:HG2	12:L:63:THR:N	2.30	0.47
1:M:67:CYS:O	1:M:68:GLN:HB2	2.15	0.47
1:M:167:GLY:O	1:M:168:CYS:SG	2.72	0.47
1:M:351:ARG:HD2	2:N:1128:LEU:CD2	2.45	0.47
1:M:381:VAL:CG1	1:M:386:ILE:HG12	2.44	0.47
1:M:402:GLY:O	1:M:436:HIS:CD2	2.68	0.47
1:M:493:PRO:O	1:M:494:GLN:NE2	2.48	0.47
1:M:538:ARG:NH2	8:T:121:LEU:HD12	2.25	0.47
1:M:775:ARG:H	1:M:775:ARG:HG2	1.40	0.47
1:M:783:ARG:NH2	2:N:696:GLU:O	2.47	0.47
1:M:1004:GLY:CA	1:M:1009:ILE:HG21	2.45	0.47
1:M:1156:TYR:CE2	1:M:1158:PRO:HD3	2.49	0.47
1:M:1222:PHE:CE2	1:M:1266:ILE:HG23	2.49	0.47
1:M:1268:ALA:O	1:M:1271:LEU:N	2.47	0.47
2:N:199:SER:OG	2:N:201:LYS:NZ	2.48	0.47
2:N:354:LEU:N	2:N:355:PRO:CD	2.77	0.47
2:N:827:ILE:O	2:N:827:ILE:HG22	2.14	0.47
2:N:1117:GLN:NE2	2:N:1156:ASP:OD1	2.43	0.47
8:T:4:ALA:HA	8:T:60:ALA:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:7:CYS:HB3	9:U:14:LEU:HD21	1.97	0.47
1:A:63:ARG:HA	1:A:74:MET:SD	2.55	0.47
2:B:33:GLN:HG3	2:B:34:GLN:N	2.24	0.47
2:B:219:LYS:O	2:B:220:ALA:O	2.32	0.47
2:B:286:ASP:HB2	9:I:12:ASN:HA	1.97	0.47
5:E:32:GLU:C	5:E:34:MET:N	2.72	0.47
7:G:125:ASN:CG	7:G:128:PRO:HA	2.40	0.47
1:M:319:SER:C	2:N:464:LYS:CA	2.87	0.47
1:M:496:GLU:CB	6:R:99:LEU:CA	2.93	0.47
2:N:316:ILE:HG23	2:N:321:VAL:HB	1.97	0.47
2:N:597:ARG:NH1	2:N:688:GLU:OE2	2.48	0.47
2:N:770:GLN:OE1	2:N:983:ARG:HA	2.15	0.47
2:N:1135:ARG:HG2	2:N:1139:ILE:HD11	1.96	0.47
10:V:43:TYR:CD2	10:V:43:TYR:N	2.82	0.47
1:A:12:ARG:HG3	2:B:1192:TYR:CD2	2.49	0.47
1:A:55:ASP:O	1:A:57:LYS:N	2.46	0.47
1:A:265:HIS:C	1:A:267:LEU:N	2.72	0.47
1:A:317:GLN:O	1:A:318:LYS:C	2.59	0.47
1:A:355:SER:HA	1:A:483:PHE:CD2	2.49	0.47
1:A:762:MET:HA	1:A:805:TYR:HB2	1.96	0.47
1:A:940:ASP:O	1:A:943:PHE:N	2.48	0.47
1:A:962:LEU:CA	1:A:965:ILE:HG22	2.44	0.47
1:A:1241:ARG:HH12	1:A:1243:ARG:HH12	1.62	0.47
1:A:1335:PHE:O	1:A:1336:VAL:C	2.56	0.47
1:A:1397:THR:HG22	1:A:1401:MET:SD	2.51	0.47
2:B:286:ASP:C	2:B:288:GLU:N	2.72	0.47
2:B:555:GLY:HA3	2:B:583:HIS:HE1	1.75	0.47
2:B:782:LEU:CD1	2:B:788:ARG:NH1	2.76	0.47
2:B:873:GLU:HB2	2:B:915:THR:OG1	2.16	0.47
2:B:1010:LEU:HD22	2:B:1092:TYR:CE1	2.50	0.47
2:B:1204:PHE:O	2:B:1205:GLN:C	2.58	0.47
3:C:168:ALA:C	3:C:170:TRP:N	2.72	0.47
3:C:220:ASP:C	3:C:220:ASP:OD1	2.58	0.47
5:E:62:ASN:HB3	5:E:63:PRO:HD2	1.97	0.47
1:M:346:VAL:HG21	2:N:1130:PHE:HB2	1.96	0.47
1:M:513:VAL:HA	1:M:520:PRO:HA	1.96	0.47
1:M:666:GLY:O	1:M:668:GLY:N	2.48	0.47
1:M:756:PHE:O	1:M:757:ILE:C	2.58	0.47
1:M:850:MET:CE	1:M:1063:GLY:HA2	2.45	0.47
1:M:890:SER:HB3	1:M:1300:GLU:HG2	1.96	0.47
1:M:963:ARG:HG3	1:M:963:ARG:HH11	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1125:GLU:O	1:M:1126:ILE:C	2.57	0.47
2:N:174:THR:O	2:N:175:LEU:C	2.58	0.47
2:N:244:THR:CG2	2:N:245:MET:N	2.77	0.47
2:N:280:ALA:N	2:N:322:ALA:HB1	2.30	0.47
2:N:348:ILE:O	2:N:348:ILE:HG22	2.15	0.47
3:O:218:VAL:H	3:O:218:VAL:HG13	1.22	0.47
4:P:141:GLU:C	4:P:143:ALA:H	2.22	0.47
11:W:63:VAL:O	11:W:63:VAL:HG23	2.15	0.47
1:A:549:ASN:ND2	11:K:47:ARG:HH21	2.13	0.46
1:A:601:PRO:HA	8:H:25:ARG:NH1	2.31	0.46
1:A:850:MET:CE	1:A:1063:GLY:HA2	2.45	0.46
1:A:900:VAL:CG2	1:A:1031:ARG:HG2	2.41	0.46
1:A:1300:GLU:HG3	1:A:1300:GLU:H	1.45	0.46
1:A:1388:THR:O	1:A:1391:GLY:N	2.48	0.46
2:B:176:ASP:H	2:B:179:ASP:HB2	1.80	0.46
2:B:637:GLU:C	2:B:639:LYS:N	2.73	0.46
4:D:54:SER:CB	4:D:113:ALA:HB1	2.45	0.46
7:G:80:LYS:HE2	7:G:80:LYS:H	1.77	0.46
10:J:43:TYR:CD2	10:J:43:TYR:N	2.82	0.46
1:M:326:ILE:CG2	2:N:1210:MET:HE2	2.45	0.46
1:M:689:GLU:C	1:M:691:VAL:N	2.71	0.46
1:M:853:TYR:CE2	1:M:1062:PRO:HB2	2.50	0.46
1:M:1326:ASP:C	1:M:1328:SER:N	2.73	0.46
2:N:540:ILE:CG1	2:N:605:GLU:CD	2.85	0.46
2:N:983:ARG:HD2	2:N:1091:TYR:CD2	2.46	0.46
2:N:1031:LEU:HD11	2:N:1042:GLY:HA3	1.96	0.46
2:N:1069:PHE:CD1	2:N:1069:PHE:N	2.76	0.46
4:P:54:SER:CB	4:P:113:ALA:HB1	2.45	0.46
1:A:297:LEU:O	1:A:301:VAL:HG23	2.15	0.46
1:A:666:GLY:O	1:A:668:GLY:N	2.48	0.46
1:A:689:GLU:C	1:A:691:VAL:N	2.71	0.46
1:A:802:GLU:OE1	2:B:726:ILE:HD12	2.16	0.46
1:A:960:VAL:HG11	1:A:1051:ILE:HG23	1.97	0.46
1:A:1116:PRO:O	1:A:1117:ALA:O	2.32	0.46
1:A:1282:ILE:CD1	1:A:1319:VAL:HG21	2.45	0.46
2:B:215:GLN:O	2:B:229:ALA:HA	2.15	0.46
2:B:229:ALA:O	2:B:247:ILE:HG22	2.15	0.46
2:B:538:ILE:HG22	2:B:539:SER:O	2.16	0.46
2:B:597:ARG:NH1	2:B:688:GLU:OE2	2.48	0.46
2:B:777:ALA:HB1	2:B:1093:GLN:HB3	1.97	0.46
2:B:827:ILE:HG22	2:B:827:ILE:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:831:SER:CB	2:B:994:TYR:OH	2.63	0.46
2:B:839:MET:CE	2:B:1010:LEU:HD21	2.45	0.46
2:B:847:ASP:C	2:B:849:GLY:N	2.67	0.46
3:C:183:HIS:O	3:C:185:LYS:N	2.49	0.46
5:E:81:PHE:CD1	5:E:81:PHE:N	2.83	0.46
8:H:40:LEU:HD12	8:H:41:ASP:N	2.30	0.46
1:M:439:ASP:OD1	1:M:463:VAL:HG23	2.14	0.46
1:M:649:ASN:C	1:M:651:GLN:N	2.69	0.46
1:M:1393:ASN:HB2	1:M:1405:PHE:CD2	2.50	0.46
2:N:176:ASP:H	2:N:179:ASP:HB2	1.80	0.46
2:N:562:TYR:CE1	2:N:582:ILE:HG21	2.50	0.46
2:N:575:VAL:HG23	2:N:619:ILE:CD1	2.45	0.46
2:N:1010:LEU:HD22	2:N:1092:TYR:CE1	2.50	0.46
2:N:1161:HIS:CE1	2:N:1193:GLN:HB2	2.50	0.46
8:T:4:ALA:HA	8:T:60:ALA:CB	2.45	0.46
8:T:40:LEU:HD12	8:T:41:ASP:N	2.30	0.46
1:A:505:LEU:HD11	6:F:91:ALA:HB1	1.96	0.46
1:A:742:ASN:C	1:A:742:ASN:ND2	2.74	0.46
1:A:786:PRO:CB	2:B:700:ILE:HD12	2.45	0.46
1:A:801:VAL:CG1	1:A:809:LEU:CG	2.84	0.46
1:A:1263:LEU:HG	1:A:1263:LEU:O	2.14	0.46
2:B:187:PRO:HG2	2:B:188:TYR:H	1.80	0.46
2:B:416:LYS:HB2	2:B:416:LYS:HZ2	1.80	0.46
2:B:612:ILE:O	2:B:614:GLU:N	2.47	0.46
2:B:797:TYR:HB3	2:B:798:TYR:HD2	1.79	0.46
2:B:880:ALA:HB3	2:B:934:LYS:HD2	1.96	0.46
5:E:142:ASN:ND2	5:E:144:THR:OG1	2.48	0.46
5:E:144:THR:HG21	5:E:186:TYR:CE2	2.50	0.46
5:E:189:LEU:C	5:E:190:LYS:HG3	2.40	0.46
7:G:7:LEU:HD11	7:G:45:ILE:HD11	1.98	0.46
8:H:4:ALA:HA	8:H:60:ALA:CB	2.45	0.46
10:J:52:HIS:CD2	10:J:52:HIS:C	2.94	0.46
1:M:63:ARG:HA	1:M:74:MET:SD	2.55	0.46
1:M:346:VAL:C	2:N:1128:LEU:O	2.51	0.46
1:M:475:VAL:O	1:M:475:VAL:HG22	2.14	0.46
1:M:699:GLN:NE2	9:U:99:LEU:HD21	2.29	0.46
1:M:940:ASP:O	1:M:943:PHE:N	2.48	0.46
1:M:1282:ILE:CD1	1:M:1319:VAL:HG21	2.45	0.46
1:M:1283:SER:O	1:M:1284:LYS:O	2.31	0.46
2:N:20:VAL:HG21	2:N:631:PHE:HZ	1.81	0.46
2:N:370:PHE:C	2:N:372:GLY:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:387:ASP:CG	9:U:91:ARG:CD	2.88	0.46
2:N:405:LEU:HB3	2:N:459:TRP:HZ2	1.78	0.46
2:N:602:ILE:HG13	2:N:602:ILE:O	2.16	0.46
2:N:752:ALA:O	2:N:755:ILE:HG13	2.15	0.46
2:N:890:TYR:CA	2:N:910:ILE:CG2	2.83	0.46
2:N:1159:ARG:HD3	2:N:1193:GLN:CG	2.41	0.46
5:Q:27:TYR:C	5:Q:64:THR:HG23	2.41	0.46
5:Q:92:MET:CE	5:Q:119:ALA:HB1	2.42	0.46
1:A:67:CYS:O	1:A:68:GLN:CB	2.63	0.46
1:A:497:GLU:OE1	7:G:63:PRO:O	2.32	0.46
1:A:667:ILE:HD12	1:A:668:GLY:N	2.26	0.46
1:A:771:VAL:O	1:A:773:GLY:N	2.49	0.46
1:A:1195:LEU:HB2	1:A:1263:LEU:HD11	1.96	0.46
2:B:737:THR:HG22	9:I:66:PRO:HA	1.98	0.46
2:B:752:ALA:O	2:B:755:ILE:HG13	2.15	0.46
2:B:770:GLN:OE1	2:B:983:ARG:HA	2.15	0.46
2:B:969:ARG:HG2	2:B:970:THR:N	2.30	0.46
2:B:1177:LYS:C	2:B:1179:GLN:H	2.21	0.46
7:G:132:SER:HB3	7:G:135:GLU:HB2	1.97	0.46
9:I:55:THR:O	9:I:56:ALA:O	2.32	0.46
1:M:567:LEU:O	1:M:568:LYS:O	2.34	0.46
2:N:1220:ARG:NH1	2:N:1220:ARG:CB	2.77	0.46
3:O:16:GLU:O	3:O:17:VAL:HG23	2.15	0.46
3:O:183:HIS:O	3:O:185:LYS:N	2.49	0.46
3:O:236:GLY:O	3:O:237:SER:C	2.58	0.46
4:P:25:ALA:HB3	4:P:27:LEU:CG	2.45	0.46
5:Q:62:ASN:HB3	5:Q:63:PRO:HD2	1.97	0.46
7:S:35:GLU:HG2	7:S:48:VAL:HG23	1.98	0.46
12:X:62:ARG:HG2	12:X:63:THR:N	2.30	0.46
1:A:475:VAL:HG22	1:A:475:VAL:O	2.14	0.46
2:B:195:VAL:O	2:B:195:VAL:HG12	2.14	0.46
2:B:602:ILE:O	2:B:602:ILE:HG13	2.16	0.46
2:B:839:MET:HE1	2:B:980:PHE:CB	2.42	0.46
2:B:879:ARG:HB3	2:B:880:ALA:H	1.52	0.46
2:B:898:LEU:HD13	2:B:952:VAL:HG11	1.97	0.46
2:B:1132:GLU:O	2:B:1135:ARG:N	2.49	0.46
6:F:74:ILE:O	6:F:74:ILE:HG22	2.16	0.46
8:H:36:ILE:CG1	8:H:36:ILE:CA	2.82	0.46
8:H:137:ASP:O	8:H:138:ASN:C	2.59	0.46
1:M:108:MET:C	1:M:110:CYS:N	2.69	0.46
1:M:114:LEU:HD13	1:M:172:GLN:NE2	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:317:GLN:O	1:M:318:LYS:C	2.59	0.46
1:M:542:ILE:HG21	1:M:550:MET:HE1	1.97	0.46
1:M:771:VAL:O	1:M:773:GLY:N	2.49	0.46
1:M:852:HIS:HB2	1:M:856:THR:HG23	1.96	0.46
1:M:973:PHE:N	1:M:973:PHE:CD1	2.83	0.46
1:M:1030:THR:HG22	1:M:1034:LEU:HD12	1.98	0.46
1:M:1241:ARG:HH12	1:M:1243:ARG:HH12	1.62	0.46
1:M:1342:LEU:HD13	5:Q:146:HIS:CG	2.50	0.46
1:M:1342:LEU:HD23	5:Q:143:ILE:HG22	1.97	0.46
2:N:394:PHE:CZ	2:N:626:VAL:HG21	2.51	0.46
2:N:401:LEU:C	2:N:404:PRO:HD2	2.41	0.46
2:N:491:THR:HG21	2:N:530:LYS:HB2	1.96	0.46
2:N:831:SER:CB	2:N:994:TYR:OH	2.63	0.46
2:N:880:ALA:HB3	2:N:934:LYS:HD2	1.96	0.46
2:N:1099:VAL:C	2:N:1101:ASP:H	2.24	0.46
2:N:1154:ALA:O	2:N:1155:SER:HB2	2.14	0.46
3:O:220:ASP:C	3:O:220:ASP:OD1	2.58	0.46
7:S:132:SER:HB3	7:S:135:GLU:HB2	1.97	0.46
2:B:16:ASP:OD1	2:B:652:ILE:HD13	2.15	0.46
2:B:218:LYS:HB2	2:B:388:GLN:OE1	2.16	0.46
2:B:405:LEU:HB3	2:B:459:TRP:HZ2	1.78	0.46
2:B:810:GLU:CB	2:B:815:ARG:HH22	2.23	0.46
2:B:863:GLU:HG2	2:B:872:GLU:HB2	1.98	0.46
4:D:25:ALA:HB3	4:D:27:LEU:CG	2.45	0.46
5:E:154:ARG:O	5:E:155:LEU:HG	2.16	0.46
6:F:97:ARG:HA	6:F:100:GLN:HG3	1.97	0.46
9:I:4:PHE:CD1	9:I:4:PHE:C	2.94	0.46
1:M:549:ASN:ND2	11:W:47:ARG:HH21	2.13	0.46
1:M:601:PRO:HA	8:T:25:ARG:NH1	2.31	0.46
1:M:762:MET:HA	1:M:805:TYR:HB2	1.96	0.46
2:N:16:ASP:OD1	2:N:652:ILE:HD13	2.15	0.46
2:N:279:ARG:NH1	2:N:316:ILE:O	2.48	0.46
2:N:596:LEU:HD12	2:N:602:ILE:HG12	1.97	0.46
2:N:758:PHE:C	2:N:760:ASP:N	2.70	0.46
2:N:800:GLN:CG	10:V:51:THR:HG22	2.42	0.46
2:N:830:TYR:CZ	2:N:1000:PRO:HB3	2.51	0.46
2:N:969:ARG:HG2	2:N:970:THR:N	2.30	0.46
2:N:980:PHE:HA	2:N:1095:LEU:HD13	1.98	0.46
2:N:992:VAL:CG2	2:N:993:THR:N	2.78	0.46
2:N:1162:VAL:CG1	2:N:1163:CYS:H	2.28	0.46
2:N:1181:GLU:HG2	2:N:1188:LYS:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:715:PHE:CB	9:I:97:MET:HE1	2.46	0.46
1:A:1104:LYS:O	1:A:1105:GLU:C	2.59	0.46
2:B:370:PHE:C	2:B:372:GLY:H	2.23	0.46
4:D:52:SER:HB2	4:D:147:SER:HB3	1.98	0.46
6:F:95:GLY:O	6:F:98:ALA:HB3	2.16	0.46
7:G:49:LEU:O	7:G:50:ASP:C	2.58	0.46
10:J:6:ARG:HA	10:J:12:LYS:O	2.15	0.46
10:J:52:HIS:NE2	10:J:54:ASP:HA	2.30	0.46
1:M:599:LEU:O	1:M:600:SER:C	2.58	0.46
1:M:848:ASP:HA	1:M:1427:VAL:HG21	1.96	0.46
1:M:1447:MET:HE3	1:M:1447:MET:HB2	1.79	0.46
2:N:53:GLU:O	2:N:53:GLU:CG	2.63	0.46
2:N:108:ASN:OD1	2:N:963:PHE:HZ	1.99	0.46
2:N:280:ALA:O	2:N:323:LEU:HD11	2.16	0.46
2:N:1012:ILE:HG21	2:N:1092:TYR:OH	2.16	0.46
5:Q:107:GLY:C	5:Q:108:ILE:HG13	2.41	0.46
10:V:1:MET:H3	10:V:55:LEU:HB2	1.80	0.46
10:V:55:LEU:O	10:V:58:LYS:N	2.49	0.46
1:A:42:ASP:OD1	1:A:45:ARG:O	2.34	0.46
1:A:122:MET:O	1:A:123:ALA:C	2.59	0.46
1:A:402:GLY:O	1:A:436:HIS:CD2	2.68	0.46
1:A:434:GLU:OE1	2:B:1108:ARG:NH1	2.49	0.46
1:A:496:GLU:HB3	6:F:99:LEU:CB	2.45	0.46
1:A:1004:GLY:CA	1:A:1009:ILE:HG21	2.45	0.46
2:B:305:MET:O	2:B:308:PRO:HD2	2.15	0.46
2:B:348:ILE:HG22	2:B:348:ILE:O	2.15	0.46
2:B:830:TYR:CZ	2:B:1000:PRO:HB3	2.51	0.46
2:B:1012:ILE:HG21	2:B:1092:TYR:OH	2.16	0.46
2:B:1116:ARG:CD	2:B:1198:TYR:CD1	2.98	0.46
3:C:46:ASP:HA	3:C:169:LYS:NZ	2.31	0.46
3:C:186:LEU:N	3:C:186:LEU:HD12	2.31	0.46
5:E:54:ARG:O	5:E:56:LEU:N	2.49	0.46
6:F:123:LYS:C	6:F:125:LEU:N	2.74	0.46
8:H:109:ASP:OD1	8:H:109:ASP:N	2.49	0.46
11:K:6:ARG:O	11:K:8:GLU:N	2.49	0.46
1:M:12:ARG:HB2	2:N:1218:THR:HG21	1.97	0.46
1:M:270:ILE:CD1	1:M:301:VAL:HG22	2.45	0.46
1:M:327:ARG:HH22	1:M:331:LYS:HE3	1.81	0.46
1:M:715:PHE:CB	9:U:97:MET:HE1	2.46	0.46
1:M:757:ILE:O	1:M:760:ALA:HB3	2.16	0.46
2:N:597:ARG:HH11	2:N:688:GLU:HG2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1085:VAL:HG12	2:N:1086:PHE:N	2.31	0.46
2:N:1189:THR:CG2	2:N:1190:ASN:N	2.78	0.46
5:Q:119:ALA:O	5:Q:121:LYS:N	2.48	0.46
10:V:52:HIS:CD2	10:V:52:HIS:C	2.94	0.46
1:A:351:ARG:HD2	2:B:1128:LEU:CD2	2.45	0.46
1:A:397:PRO:HB3	1:A:404:LYS:HB2	1.97	0.46
1:A:1030:THR:HG22	1:A:1034:LEU:HD12	1.98	0.46
1:A:1221:VAL:HG11	1:A:1274:ILE:CD1	2.39	0.46
2:B:25:PHE:CD1	2:B:811:TYR:CD2	3.03	0.46
2:B:280:ALA:O	2:B:323:LEU:HD11	2.16	0.46
2:B:401:LEU:C	2:B:404:PRO:HD2	2.41	0.46
2:B:742:GLU:O	2:B:743:ILE:C	2.59	0.46
2:B:879:ARG:HA	2:B:879:ARG:NE	2.30	0.46
2:B:1177:LYS:O	2:B:1179:GLN:N	2.43	0.46
5:E:41:PHE:CZ	5:E:57:MET:HE3	2.49	0.46
5:E:77:LEU:HD21	5:E:79:VAL:CG2	2.44	0.46
5:E:119:ALA:O	5:E:121:LYS:N	2.48	0.46
7:G:89:ALA:CB	7:G:103:VAL:HA	2.41	0.46
1:M:64:ASN:O	1:M:66:LYS:N	2.49	0.46
1:M:80:HIS:O	1:M:244:PRO:HB3	2.16	0.46
1:M:261:ASP:OD1	1:M:262:ASP:N	2.49	0.46
1:M:497:GLU:O	1:M:498:THR:C	2.59	0.46
2:N:215:GLN:O	2:N:229:ALA:HA	2.15	0.46
2:N:416:LYS:HB2	2:N:416:LYS:HZ2	1.79	0.46
2:N:879:ARG:NE	2:N:879:ARG:HA	2.30	0.46
2:N:1217:TYR:CE2	4:P:13:ARG:C	2.94	0.46
3:O:47:LEU:O	3:O:158:ILE:HG22	2.16	0.46
3:O:141:GLY:HA2	10:V:16:ASP:HB3	1.97	0.46
4:P:28:LEU:HD13	4:P:138:HIS:HD2	1.80	0.46
5:Q:181:ASP:HB3	5:Q:184:ALA:CB	2.45	0.46
7:S:49:LEU:O	7:S:50:ASP:C	2.58	0.46
11:W:6:ARG:O	11:W:8:GLU:N	2.49	0.46
1:A:67:CYS:O	1:A:68:GLN:HB2	2.15	0.46
1:A:338:ARG:HD3	2:B:1132:GLU:OE1	2.16	0.46
1:A:453:LYS:HG2	2:B:1141:HIS:CE1	2.51	0.46
1:A:756:PHE:O	1:A:757:ILE:C	2.58	0.46
1:A:769:GLN:OE1	1:A:817:HIS:CA	2.44	0.46
1:A:1003:ARG:HG2	1:A:1003:ARG:HH11	1.81	0.46
1:A:1352:TYR:C	1:A:1352:TYR:CD2	2.94	0.46
2:B:20:VAL:HG21	2:B:631:PHE:HZ	1.81	0.46
2:B:105:ARG:NH2	2:B:185:GLU:HG2	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:374:MET:C	2:B:376:ASN:N	2.72	0.46
2:B:509:ASN:O	2:B:511:HIS:N	2.49	0.46
2:B:1031:LEU:HD11	2:B:1042:GLY:HA3	1.96	0.46
3:C:16:GLU:O	3:C:17:VAL:HG23	2.15	0.46
5:E:150:PRO:HB3	5:E:199:ARG:HB3	1.98	0.46
5:E:177:ILE:HB	5:E:211:ARG:HD3	1.98	0.46
7:G:35:GLU:HG2	7:G:48:VAL:HG23	1.98	0.46
10:J:55:LEU:O	10:J:58:LYS:N	2.49	0.46
1:M:314:GLN:O	1:M:315:ALA:HB3	2.16	0.46
1:M:524:ILE:HD12	1:M:623:VAL:HG21	1.97	0.46
1:M:984:THR:N	1:M:987:GLU:HB2	2.31	0.46
1:M:984:THR:HB	1:M:987:GLU:H	1.80	0.46
2:N:101:PRO:O	2:N:103:GLU:N	2.49	0.46
2:N:187:PRO:HG2	2:N:188:TYR:H	1.80	0.46
2:N:542:SER:N	2:N:621:THR:HG23	2.31	0.46
2:N:597:ARG:HA	2:N:602:ILE:HG13	1.98	0.46
2:N:936:ASP:OD1	2:N:936:ASP:C	2.58	0.46
5:Q:150:PRO:HB3	5:Q:199:ARG:HB3	1.98	0.46
7:S:6:ASP:HB3	7:S:73:LYS:HZ1	1.81	0.46
10:V:21:TYR:C	10:V:23:ARG:H	2.23	0.46
1:A:112:LYS:HG2	1:A:113:LEU:N	2.31	0.45
1:A:499:ARG:O	1:A:502:LEU:HB2	2.16	0.45
1:A:529:LEU:HD21	1:A:750:ALA:O	2.16	0.45
1:A:757:ILE:O	1:A:760:ALA:HB3	2.16	0.45
1:A:1445:ASP:OD2	6:F:137:TYR:OH	2.27	0.45
2:B:225:ILE:CG2	2:B:228:VAL:HG23	2.46	0.45
2:B:393:HIS:ND1	2:B:510:THR:HG21	2.31	0.45
2:B:799:PRO:O	2:B:800:GLN:HG3	2.17	0.45
2:B:1189:THR:CG2	2:B:1190:ASN:N	2.78	0.45
3:C:205:LYS:O	3:C:205:LYS:HG2	2.16	0.45
5:E:27:TYR:C	5:E:64:THR:HG23	2.41	0.45
5:E:134:PHE:CB	5:E:139:LEU:HD11	2.42	0.45
5:E:162:GLN:O	5:E:163:LEU:C	2.60	0.45
5:E:178:GLN:O	5:E:181:ASP:HB2	2.16	0.45
8:H:17:ASN:O	8:H:19:ARG:N	2.49	0.45
9:I:33:ASP:O	9:I:34:TYR:C	2.59	0.45
10:J:14:VAL:O	10:J:14:VAL:HG12	2.16	0.45
1:M:42:ASP:C	1:M:44:SER:H	2.25	0.45
1:M:742:ASN:C	1:M:742:ASN:ND2	2.74	0.45
1:M:786:PRO:CB	2:N:700:ILE:HD12	2.45	0.45
1:M:1003:ARG:HG2	1:M:1003:ARG:HH11	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1063:GLY:O	1:M:1064:GLU:C	2.59	0.45
2:N:801:LYS:O	10:V:51:THR:CG2	2.56	0.45
2:N:863:GLU:HG2	2:N:872:GLU:HB2	1.98	0.45
2:N:898:LEU:HD13	2:N:952:VAL:HG11	1.98	0.45
2:N:995:ARG:NH1	2:N:997:GLU:OE1	2.49	0.45
2:N:1132:GLU:O	2:N:1135:ARG:N	2.49	0.45
2:N:1159:ARG:CD	2:N:1193:GLN:NE2	2.78	0.45
3:O:186:LEU:HD12	3:O:186:LEU:N	2.31	0.45
4:P:47:ASP:C	4:P:48:LEU:O	2.59	0.45
4:P:109:LEU:O	4:P:113:ALA:HB2	2.16	0.45
5:Q:178:GLN:O	5:Q:181:ASP:HB2	2.16	0.45
7:S:7:LEU:HD11	7:S:45:ILE:HD11	1.98	0.45
8:T:17:ASN:O	8:T:19:ARG:N	2.49	0.45
8:T:42:ILE:HG23	8:T:94:TYR:CE1	2.52	0.45
10:V:6:ARG:HA	10:V:12:LYS:O	2.15	0.45
1:A:570:LYS:HB3	1:A:572:LEU:HD11	1.98	0.45
1:A:699:GLN:NE2	9:I:99:LEU:HD21	2.29	0.45
2:B:314:PHE:O	2:B:314:PHE:CD1	2.70	0.45
2:B:512:TRP:CD1	2:B:512:TRP:C	2.94	0.45
2:B:518:ALA:O	2:B:768:THR:HG23	2.17	0.45
2:B:540:ILE:CG1	2:B:605:GLU:CD	2.84	0.45
2:B:1072:MET:CE	2:B:1087:PHE:HB2	2.46	0.45
2:B:1099:VAL:C	2:B:1101:ASP:H	2.24	0.45
2:B:1161:HIS:CE1	2:B:1193:GLN:HB2	2.50	0.45
3:C:47:LEU:O	3:C:158:ILE:HG22	2.16	0.45
4:D:41:HIS:ND1	4:D:42:ASP:N	2.64	0.45
1:M:246:GLN:O	2:N:1114:LEU:HD12	2.04	0.45
1:M:456:MET:HE3	2:N:1134:GLU:HG3	1.98	0.45
1:M:499:ARG:O	1:M:502:LEU:HB2	2.16	0.45
1:M:667:ILE:HD12	1:M:668:GLY:N	2.27	0.45
1:M:802:GLU:OE1	2:N:726:ILE:HD12	2.16	0.45
1:M:815:PHE:CE1	2:N:512:TRP:HE3	2.33	0.45
1:M:1104:LYS:O	1:M:1105:GLU:C	2.59	0.45
1:M:1118:LEU:HD23	1:M:1311:THR:HG21	1.98	0.45
1:M:1393:ASN:HA	1:M:1402:ARG:HG2	1.97	0.45
2:N:25:PHE:CD1	2:N:811:TYR:CD2	3.03	0.45
2:N:225:ILE:HD12	2:N:225:ILE:N	2.31	0.45
2:N:286:ASP:HB2	9:U:12:ASN:HA	1.97	0.45
2:N:512:TRP:CD1	2:N:512:TRP:C	2.94	0.45
3:O:46:ASP:HA	3:O:169:LYS:NZ	2.31	0.45
3:O:161:LYS:HB3	3:O:162:GLY:H	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:154:ARG:O	5:Q:155:LEU:HG	2.16	0.45
7:S:89:ALA:CB	7:S:103:VAL:CA	2.91	0.45
8:T:109:ASP:N	8:T:109:ASP:OD1	2.49	0.45
1:A:261:ASP:OD1	1:A:262:ASP:N	2.49	0.45
1:A:327:ARG:HH22	1:A:331:LYS:HE3	1.81	0.45
1:A:456:MET:HE1	2:B:1134:GLU:HB3	1.98	0.45
1:A:973:PHE:N	1:A:973:PHE:CD1	2.83	0.45
1:A:1423:ASP:O	1:A:1424:CYS:CB	2.61	0.45
2:B:77:ILE:HA	2:B:120:GLU:O	2.17	0.45
2:B:203:LEU:HD12	2:B:402:ALA:HB1	1.98	0.45
2:B:280:ALA:N	2:B:322:ALA:HB1	2.30	0.45
2:B:316:ILE:HG23	2:B:321:VAL:HB	1.97	0.45
2:B:457:GLY:HA2	2:B:472:VAL:O	2.15	0.45
2:B:745:PRO:C	2:B:747:MET:N	2.75	0.45
2:B:1001:PHE:CE2	3:C:33:ARG:NE	2.85	0.45
6:F:97:ARG:HA	6:F:97:ARG:HD2	1.71	0.45
1:M:72:GLU:HB3	1:M:76:GLU:HB3	1.98	0.45
1:M:456:MET:HE1	2:N:1134:GLU:HB3	1.99	0.45
1:M:799:GLY:HA2	1:M:816:PHE:CG	2.46	0.45
1:M:860:SER:CB	1:M:1426:GLY:HA2	2.45	0.45
1:M:1153:GLU:HA	9:U:44:TYR:O	2.16	0.45
2:N:203:LEU:HD12	2:N:402:ALA:HB1	1.98	0.45
2:N:218:LYS:HB2	2:N:388:GLN:OE1	2.15	0.45
2:N:457:GLY:HA2	2:N:472:VAL:O	2.15	0.45
2:N:509:ASN:O	2:N:511:HIS:N	2.49	0.45
2:N:628:ARG:NH1	2:N:742:GLU:OE2	2.45	0.45
2:N:637:GLU:C	2:N:639:LYS:N	2.73	0.45
2:N:1010:LEU:HD23	2:N:1092:TYR:CE1	2.52	0.45
2:N:1072:MET:CE	2:N:1087:PHE:HB2	2.46	0.45
8:T:90:ASP:O	8:T:92:TYR:N	2.41	0.45
9:U:4:PHE:CD1	9:U:4:PHE:C	2.94	0.45
1:A:24:PRO:HA	1:A:27:ILE:CG2	2.47	0.45
1:A:64:ASN:O	1:A:66:LYS:N	2.49	0.45
1:A:95:PHE:CD1	1:A:235:MET:HG2	2.52	0.45
1:A:270:ILE:CD1	1:A:301:VAL:HG22	2.45	0.45
1:A:630:LEU:C	1:A:633:THR:CG2	2.90	0.45
1:A:787:HIS:HE1	2:B:512:TRP:CZ2	2.34	0.45
1:A:984:THR:HB	1:A:987:GLU:H	1.80	0.45
1:A:1163:THR:CG2	1:A:1164:VAL:N	2.77	0.45
2:B:108:ASN:OD1	2:B:963:PHE:HZ	1.99	0.45
2:B:183:MET:C	2:B:185:GLU:H	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:755:ILE:HA	2:B:809:MET:CE	2.47	0.45
2:B:995:ARG:NH1	2:B:997:GLU:OE1	2.50	0.45
3:C:42:THR:CG2	3:C:43:LEU:N	2.61	0.45
5:E:41:PHE:O	5:E:42:ARG:C	2.59	0.45
12:L:49:ARG:HB3	12:L:50:CYS:H	1.70	0.45
1:M:42:ASP:OD1	1:M:45:ARG:O	2.34	0.45
1:M:342:MET:O	2:N:1132:GLU:HA	2.17	0.45
1:M:852:HIS:HB2	1:M:856:THR:CG2	2.47	0.45
1:M:1221:VAL:HG11	1:M:1274:ILE:CD1	2.39	0.45
2:N:57:ILE:HG22	2:N:57:ILE:O	2.17	0.45
2:N:239:SER:O	2:N:240:ARG:HB2	2.15	0.45
2:N:538:ILE:HG22	2:N:539:SER:O	2.16	0.45
2:N:755:ILE:HA	2:N:809:MET:CE	2.47	0.45
2:N:799:PRO:O	2:N:800:GLN:HG3	2.17	0.45
2:N:873:GLU:HB2	2:N:915:THR:OG1	2.15	0.45
2:N:1003:ALA:O	3:O:177:ALA:HA	2.17	0.45
4:P:41:HIS:ND1	4:P:42:ASP:N	2.64	0.45
5:Q:54:ARG:O	5:Q:56:LEU:N	2.49	0.45
6:R:97:ARG:HA	6:R:100:GLN:HG3	1.98	0.45
1:A:208:ILE:HG23	1:A:212:PHE:CE1	2.52	0.45
1:A:520:PRO:HD3	1:A:632:HIS:CG	2.51	0.45
2:B:542:SER:N	2:B:621:THR:HG23	2.31	0.45
2:B:575:VAL:HG23	2:B:619:ILE:CD1	2.45	0.45
2:B:1010:LEU:HD23	2:B:1092:TYR:CE1	2.52	0.45
3:C:9:ILE:H	3:C:9:ILE:HG13	1.44	0.45
4:D:109:LEU:O	4:D:113:ALA:HB2	2.17	0.45
4:D:122:THR:O	4:D:126:GLN:HG3	2.16	0.45
9:I:68:LEU:HB3	9:I:84:VAL:CG2	2.47	0.45
9:I:103:CYS:C	9:I:105:ASN:H	2.25	0.45
9:I:109:THR:O	9:I:109:THR:HG22	2.17	0.45
1:M:24:PRO:HA	1:M:27:ILE:CG2	2.47	0.45
1:M:112:LYS:HG2	1:M:113:LEU:N	2.31	0.45
1:M:183:TRP:CG	1:M:184:GLY:N	2.84	0.45
1:M:263:LEU:O	1:M:265:HIS:N	2.50	0.45
2:N:217:PHE:HA	2:N:388:GLN:HG3	1.99	0.45
2:N:1201:LYS:HG2	2:N:1202:LEU:N	2.28	0.45
3:O:9:ILE:CD1	11:W:108:GLU:HB3	2.36	0.45
5:Q:177:ILE:HB	5:Q:211:ARG:HD3	1.98	0.45
10:V:7:CYS:CB	10:V:48:MET:HE3	2.47	0.45
1:A:263:LEU:O	1:A:265:HIS:N	2.50	0.45
1:A:599:LEU:O	1:A:600:SER:C	2.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:649:ASN:C	1:A:651:GLN:N	2.69	0.45
1:A:822:ARG:HH11	1:A:822:ARG:CB	2.22	0.45
1:A:963:ARG:HH11	1:A:963:ARG:HG3	1.80	0.45
1:A:999:LEU:HD13	1:A:1020:PHE:HE2	1.82	0.45
1:A:1018:SER:O	1:A:1019:LEU:C	2.60	0.45
2:B:39:ASP:O	2:B:43:GLU:HB2	2.17	0.45
2:B:479:TYR:N	2:B:479:TYR:CD2	2.83	0.45
2:B:999:MET:HG3	2:B:1000:PRO:CD	2.30	0.45
10:J:7:CYS:CB	10:J:48:MET:HE3	2.47	0.45
11:K:79:GLU:O	11:K:81:THR:N	2.50	0.45
1:M:263:LEU:C	1:M:265:HIS:N	2.68	0.45
1:M:1072:GLN:O	1:M:1074:ILE:N	2.50	0.45
2:N:108:ASN:HA	2:N:198:GLY:CA	2.47	0.45
2:N:200:GLU:OE1	2:N:788:ARG:NH2	2.50	0.45
2:N:294:CYS:SG	2:N:303:LEU:HD21	2.57	0.45
2:N:797:TYR:HB3	2:N:798:TYR:HD2	1.78	0.45
2:N:810:GLU:CB	2:N:815:ARG:HH22	2.23	0.45
2:N:839:MET:CE	2:N:1010:LEU:HD21	2.45	0.45
2:N:1001:PHE:CE2	3:O:33:ARG:NE	2.85	0.45
6:R:74:ILE:O	6:R:74:ILE:HG22	2.15	0.45
9:U:58:ILE:CG1	9:U:62:ILE:HG21	2.47	0.45
9:U:103:CYS:C	9:U:105:ASN:H	2.25	0.45
1:A:87:ALA:O	1:A:88:LYS:HG2	2.17	0.45
1:A:910:LYS:C	1:A:912:ASP:H	2.25	0.45
1:A:1063:GLY:O	1:A:1064:GLU:C	2.59	0.45
1:A:1072:GLN:O	1:A:1074:ILE:N	2.50	0.45
2:B:56:LEU:HB3	2:B:425:MET:HE1	1.98	0.45
2:B:101:PRO:O	2:B:103:GLU:N	2.49	0.45
2:B:217:PHE:HA	2:B:388:GLN:HG3	1.99	0.45
2:B:1003:ALA:O	3:C:177:ALA:HA	2.17	0.45
2:B:1114:LEU:O	2:B:1198:TYR:HE2	1.94	0.45
3:C:132:PRO:O	3:C:133:VAL:C	2.60	0.45
3:C:168:ALA:O	3:C:170:TRP:N	2.50	0.45
4:D:28:LEU:HD13	4:D:138:HIS:HD2	1.81	0.45
4:D:54:SER:HB3	4:D:113:ALA:CA	2.47	0.45
7:G:166:ASP:O	7:G:168:LEU:HG	2.17	0.45
1:M:214:HIS:O	1:M:215:ILE:C	2.60	0.45
1:M:373:LYS:HA	1:M:436:HIS:HD1	1.79	0.45
1:M:444:LEU:O	1:M:490:LEU:HD12	2.16	0.45
1:M:453:LYS:HG2	2:N:1141:HIS:CE1	2.51	0.45
1:M:520:PRO:HD3	1:M:632:HIS:CG	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:553:TRP:HE1	11:W:62:LYS:CB	2.13	0.45
1:M:960:VAL:HG11	1:M:1051:ILE:HG23	1.97	0.45
1:M:1257:ALA:O	1:M:1258:GLU:CB	2.65	0.45
1:M:1431:VAL:HG11	2:N:1135:ARG:CD	2.46	0.45
2:N:16:ASP:HB3	2:N:652:ILE:HD13	1.99	0.45
2:N:1204:PHE:O	2:N:1205:GLN:C	2.58	0.45
2:N:1223:VAL:O	2:N:1224:SER:CB	2.59	0.45
3:O:205:LYS:HG2	3:O:205:LYS:O	2.16	0.45
3:O:233:GLU:OE1	10:V:12:LYS:HE2	2.17	0.45
5:Q:179:ARG:HH21	5:Q:191:ARG:HB2	1.82	0.45
10:V:21:TYR:C	10:V:23:ARG:N	2.74	0.45
1:A:42:ASP:C	1:A:44:SER:H	2.25	0.45
1:A:183:TRP:CG	1:A:184:GLY:N	2.84	0.45
1:A:547:VAL:O	1:A:551:LEU:HG	2.17	0.45
1:A:651:GLN:O	1:A:652:LYS:C	2.60	0.45
1:A:852:HIS:HB2	1:A:856:THR:CG2	2.47	0.45
1:A:1257:ALA:O	1:A:1258:GLU:CB	2.65	0.45
1:A:1367:ASN:O	1:A:1368:TYR:C	2.59	0.45
2:B:495:ILE:HG12	2:B:528:LEU:HD13	1.99	0.45
2:B:597:ARG:HA	2:B:602:ILE:HG13	1.98	0.45
2:B:597:ARG:HH11	2:B:688:GLU:HG2	1.81	0.45
2:B:1138:MET:HE2	2:B:1146:PHE:HD2	1.77	0.45
3:C:141:GLY:HA2	10:J:16:ASP:HB3	1.97	0.45
4:D:56:SER:O	4:D:60:ILE:HG13	2.16	0.45
5:E:115:ILE:HG22	5:E:116:THR:N	2.32	0.45
6:F:111:ILE:C	6:F:113:GLY:N	2.75	0.45
1:M:87:ALA:O	1:M:88:LYS:HG2	2.17	0.45
1:M:95:PHE:CD1	1:M:235:MET:HG2	2.52	0.45
1:M:106:ILE:CG1	1:M:107:CYS:N	2.80	0.45
1:M:208:ILE:HG23	1:M:212:PHE:CE1	2.52	0.45
1:M:561:VAL:HG23	8:T:77:SER:HB2	1.98	0.45
1:M:1163:THR:CG2	1:M:1164:VAL:N	2.77	0.45
2:N:39:ASP:O	2:N:43:GLU:HB2	2.16	0.45
2:N:725:ARG:HH12	2:N:1047:PHE:HA	1.81	0.45
2:N:821:GLN:NE2	2:N:850:LEU:HD12	2.32	0.45
2:N:977:GLY:HA3	2:N:1099:VAL:HG21	1.99	0.45
2:N:999:MET:HG2	2:N:1007:VAL:HG22	1.99	0.45
2:N:1039:GLY:HA2	10:V:50:LEU:HD21	1.96	0.45
4:P:88:GLU:C	4:P:90:ALA:N	2.71	0.45
5:Q:32:GLU:C	5:Q:34:MET:N	2.72	0.45
8:T:137:ASP:O	8:T:138:ASN:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:68:LEU:HB3	9:U:84:VAL:CG2	2.46	0.45
11:W:85:GLN:O	11:W:88:GLU:N	2.50	0.45
1:A:41:MET:H	1:A:41:MET:HE3	1.82	0.45
1:A:591:ARG:HH21	1:A:621:LYS:HB3	1.73	0.45
1:A:853:TYR:CE2	1:A:1062:PRO:HB2	2.50	0.45
1:A:1103:LEU:HD12	1:A:1103:LEU:O	2.17	0.45
1:A:1153:GLU:HA	9:I:44:TYR:O	2.16	0.45
2:B:225:ILE:HD12	2:B:225:ILE:N	2.31	0.45
2:B:294:CYS:SG	2:B:303:LEU:HD21	2.57	0.45
3:C:45:ILE:HG13	3:C:71:LEU:HD11	1.99	0.45
5:E:89:ILE:CG1	5:E:118:SER:HB2	2.47	0.45
11:K:85:GLN:O	11:K:88:GLU:N	2.50	0.45
1:M:100:LYS:HG3	1:M:182:LEU:CD2	2.47	0.45
1:M:173:PRO:HB3	1:M:186:TRP:CD2	2.52	0.45
1:M:910:LYS:C	1:M:912:ASP:H	2.25	0.45
1:M:1107:LEU:HB3	1:M:1387:ILE:HG21	1.99	0.45
2:N:77:ILE:HA	2:N:120:GLU:O	2.17	0.45
2:N:314:PHE:CD1	2:N:314:PHE:O	2.70	0.45
2:N:956:THR:HG22	2:N:957:ASN:O	2.17	0.45
3:O:168:ALA:O	3:O:170:TRP:N	2.50	0.45
4:P:122:THR:O	4:P:126:GLN:HG3	2.16	0.45
5:Q:41:PHE:O	5:Q:42:ARG:C	2.59	0.45
8:T:63:LEU:C	8:T:89:ALA:CB	2.85	0.45
11:W:76:GLN:HE21	11:W:76:GLN:HB3	1.53	0.45
1:A:444:LEU:O	1:A:490:LEU:HD12	2.16	0.45
1:A:567:LEU:O	1:A:568:LYS:O	2.34	0.45
1:A:568:LYS:HB2	1:A:569:PRO:HD3	1.96	0.45
1:A:984:THR:N	1:A:987:GLU:HB2	2.31	0.45
2:B:555:GLY:O	2:B:583:HIS:ND1	2.50	0.45
2:B:752:ALA:O	2:B:755:ILE:CG1	2.65	0.45
2:B:1085:VAL:HG12	2:B:1086:PHE:N	2.30	0.45
5:E:32:GLU:C	5:E:34:MET:H	2.24	0.45
8:H:42:ILE:HG23	8:H:94:TYR:CE1	2.51	0.45
9:I:55:THR:O	9:I:56:ALA:C	2.60	0.45
12:L:30:LYS:C	12:L:31:TYR:HD2	2.25	0.45
1:M:434:GLU:OE1	2:N:1108:ARG:NH1	2.50	0.45
1:M:549:ASN:ND2	11:W:47:ARG:NH2	2.65	0.45
1:M:570:LYS:HB3	1:M:572:LEU:HD11	1.98	0.45
1:M:651:GLN:O	1:M:652:LYS:C	2.60	0.45
1:M:869:TYR:CE1	1:M:1066:VAL:CG1	3.00	0.45
1:M:962:LEU:C	1:M:965:ILE:HG22	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1367:ASN:O	1:M:1368:TYR:C	2.59	0.45
2:N:374:MET:C	2:N:376:ASN:N	2.73	0.45
2:N:489:ARG:HB3	2:N:489:ARG:HH11	1.82	0.45
2:N:518:ALA:O	2:N:768:THR:HG23	2.17	0.45
4:P:52:SER:HB2	4:P:147:SER:HB3	1.98	0.45
9:U:33:ASP:O	9:U:34:TYR:C	2.59	0.45
9:U:40:ASP:CG	9:U:41:PRO:CD	2.88	0.45
10:V:7:CYS:SG	10:V:48:MET:CE	3.04	0.45
11:W:79:GLU:O	11:W:81:THR:N	2.50	0.45
12:X:63:THR:HG22	12:X:65:ARG:HG3	1.98	0.45
1:A:549:ASN:ND2	11:K:47:ARG:NH2	2.66	0.44
1:A:669:ASP:HB3	1:A:744:VAL:HG23	1.98	0.44
1:A:680:ILE:O	1:A:681:THR:C	2.60	0.44
1:A:869:TYR:CE1	1:A:1066:VAL:CG1	3.00	0.44
1:A:995:LEU:O	1:A:996:CYS:C	2.60	0.44
1:A:1374:LEU:C	1:A:1374:LEU:HD12	2.42	0.44
1:A:1448:ILE:HD12	1:A:1448:ILE:N	2.32	0.44
2:B:51:TRP:CG	2:B:51:TRP:CA	2.84	0.44
2:B:200:GLU:OE1	2:B:788:ARG:NH2	2.50	0.44
2:B:235:LEU:O	2:B:240:ARG:HG2	2.17	0.44
2:B:857:ARG:O	2:B:967:ARG:HA	2.17	0.44
2:B:977:GLY:HA3	2:B:1099:VAL:HG21	1.99	0.44
2:B:999:MET:HG2	2:B:1007:VAL:HG22	1.99	0.44
3:C:9:ILE:HG22	3:C:10:ILE:O	2.16	0.44
3:C:260:PHE:O	3:C:261:GLU:C	2.59	0.44
9:I:58:ILE:CG1	9:I:62:ILE:HG21	2.47	0.44
1:M:377:TYR:HA	1:M:378:PRO:HD2	1.87	0.44
1:M:444:LEU:HD22	1:M:444:LEU:HA	1.79	0.44
1:M:547:VAL:O	1:M:551:LEU:HG	2.17	0.44
1:M:787:HIS:HE1	2:N:512:TRP:CZ2	2.34	0.44
1:M:1018:SER:O	1:M:1019:LEU:C	2.60	0.44
1:M:1103:LEU:HD12	1:M:1103:LEU:O	2.17	0.44
1:M:1144:THR:HA	1:M:1276:LEU:HD13	1.98	0.44
1:M:1448:ILE:HD12	1:M:1448:ILE:N	2.32	0.44
2:N:742:GLU:O	2:N:743:ILE:C	2.59	0.44
3:O:113:VAL:HG23	3:O:145:CYS:O	2.17	0.44
3:O:164:ALA:CB	3:O:171:SER:CB	2.84	0.44
5:Q:162:GLN:O	5:Q:163:LEU:C	2.60	0.44
6:R:95:GLY:O	6:R:98:ALA:HB3	2.16	0.44
9:U:99:LEU:H	9:U:112:ASP:CG	2.25	0.44
9:U:106:CYS:O	9:U:107:LYS:CG	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:14:VAL:O	10:V:14:VAL:HG12	2.16	0.44
1:A:561:VAL:HG23	8:H:77:SER:HB2	1.98	0.44
1:A:845:ALA:C	1:A:846:LEU:HD23	2.42	0.44
1:A:936:GLN:NE2	1:A:1025:ARG:NH1	2.66	0.44
2:B:57:ILE:O	2:B:57:ILE:HG22	2.17	0.44
2:B:167:SER:O	2:B:173:ARG:HB3	2.18	0.44
2:B:421:ILE:O	2:B:425:MET:HE2	2.17	0.44
2:B:980:PHE:HA	2:B:1095:LEU:HD13	1.98	0.44
2:B:1190:ASN:C	2:B:1191:ILE:HG13	2.42	0.44
3:C:239:LYS:O	3:C:240:ALA:C	2.60	0.44
5:E:58:SER:OG	5:E:80:GLU:HG3	2.17	0.44
5:E:179:ARG:HH21	5:E:191:ARG:HB2	1.82	0.44
9:I:99:LEU:H	9:I:112:ASP:CG	2.25	0.44
1:M:122:MET:O	1:M:123:ALA:C	2.59	0.44
1:M:344:LYS:O	2:N:1129:ARG:HG2	2.17	0.44
1:M:498:THR:HG21	2:N:1149:GLU:OE1	2.18	0.44
1:M:710:THR:HG22	1:M:712:ARG:N	2.25	0.44
1:M:1195:LEU:HD12	1:M:1196:ARG:N	2.33	0.44
2:N:235:LEU:O	2:N:240:ARG:HG2	2.17	0.44
2:N:421:ILE:O	2:N:425:MET:HE2	2.17	0.44
2:N:782:LEU:CD1	2:N:788:ARG:NH1	2.75	0.44
2:N:1197:PRO:O	2:N:1200:ALA:N	2.50	0.44
3:O:9:ILE:HG22	3:O:10:ILE:O	2.16	0.44
3:O:260:PHE:O	3:O:261:GLU:C	2.59	0.44
4:P:105:THR:O	4:P:105:THR:HG22	2.17	0.44
5:Q:12:TRP:O	5:Q:15:PHE:HB3	2.18	0.44
6:R:79:ARG:HG2	6:R:144:GLU:OE1	2.17	0.44
7:S:117:ASP:O	7:S:119:LEU:N	2.51	0.44
7:S:166:ASP:O	7:S:168:LEU:HG	2.17	0.44
1:A:80:HIS:O	1:A:244:PRO:HB3	2.16	0.44
1:A:278:GLN:C	1:A:280:LEU:H	2.25	0.44
1:A:457:MET:HE1	1:A:475:VAL:HG23	2.00	0.44
1:A:826:ILE:O	1:A:830:VAL:HG23	2.18	0.44
1:A:1346:ALA:HB1	5:E:148:LEU:HB2	1.99	0.44
2:B:442:LYS:O	2:B:444:THR:N	2.44	0.44
2:B:630:LEU:HA	2:B:743:ILE:HD11	2.00	0.44
2:B:1110:PRO:HG2	2:B:1119:VAL:CG2	2.47	0.44
3:C:233:GLU:OE1	10:J:12:LYS:HE2	2.17	0.44
11:K:109:TRP:O	11:K:110:ASN:C	2.61	0.44
1:M:91:PHE:H	1:M:298:GLN:NE2	2.10	0.44
1:M:397:PRO:HB3	1:M:404:LYS:HB2	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:769:GLN:OE1	1:M:820:ALA:HB3	2.18	0.44
1:M:845:ALA:C	1:M:846:LEU:HD23	2.42	0.44
1:M:936:GLN:NE2	1:M:1025:ARG:NH1	2.66	0.44
1:M:1208:GLN:O	1:M:1209:LEU:HD23	2.17	0.44
1:M:1228:VAL:HG22	1:M:1242:CYS:HB3	1.99	0.44
1:M:1352:TYR:C	1:M:1352:TYR:CD2	2.94	0.44
2:N:105:ARG:NH2	2:N:185:GLU:HG2	2.31	0.44
2:N:555:GLY:O	2:N:583:HIS:ND1	2.50	0.44
2:N:630:LEU:HA	2:N:743:ILE:HD11	2.00	0.44
2:N:890:TYR:CD2	2:N:910:ILE:HG21	2.51	0.44
2:N:1030:LEU:HD12	2:N:1030:LEU:HA	1.88	0.44
2:N:1110:PRO:HG2	2:N:1119:VAL:CG2	2.47	0.44
4:P:50:ALA:CB	4:P:139:PRO:O	2.65	0.44
8:T:42:ILE:CG2	8:T:43:ASN:N	2.81	0.44
11:W:6:ARG:C	11:W:8:GLU:H	2.25	0.44
12:X:30:LYS:C	12:X:31:TYR:HD2	2.25	0.44
1:A:314:GLN:O	1:A:315:ALA:HB3	2.16	0.44
1:A:456:MET:HE3	2:B:1134:GLU:HG3	1.98	0.44
1:A:497:GLU:O	1:A:498:THR:C	2.58	0.44
1:A:716:GLU:O	1:A:718:GLU:N	2.50	0.44
1:A:1118:LEU:HD23	1:A:1311:THR:HG21	1.98	0.44
1:A:1441:THR:HB	2:B:1144:ALA:CB	2.47	0.44
2:B:489:ARG:HB3	2:B:489:ARG:HH11	1.82	0.44
2:B:758:PHE:N	2:B:759:PRO:CD	2.81	0.44
2:B:868:ILE:O	2:B:870:ILE:HG13	2.17	0.44
3:C:87:CYS:O	3:C:87:CYS:SG	2.75	0.44
3:C:113:VAL:HG23	3:C:145:CYS:O	2.17	0.44
3:C:175:ALA:CB	10:J:42:ARG:NH2	2.72	0.44
4:D:49:ILE:CG2	7:G:4:LEU:HB2	2.42	0.44
4:D:50:ALA:CB	4:D:139:PRO:O	2.66	0.44
7:G:13:LEU:CD2	7:G:17:TYR:HB2	2.45	0.44
8:H:63:LEU:C	8:H:89:ALA:CB	2.86	0.44
1:M:318:LYS:HA	2:N:464:LYS:HE3	1.85	0.44
1:M:320:GLY:HA3	2:N:464:LYS:C	2.42	0.44
1:M:417:ARG:C	1:M:418:TYR:HD2	2.25	0.44
1:M:465:PRO:O	1:M:466:TYR:O	2.36	0.44
1:M:483:PHE:O	2:N:989:THR:CG2	2.62	0.44
1:M:669:ASP:HB3	1:M:744:VAL:HG23	1.98	0.44
1:M:716:GLU:O	1:M:718:GLU:N	2.51	0.44
2:N:495:ILE:HG12	2:N:528:LEU:HD13	1.99	0.44
3:O:59:ASP:HB3	12:X:69:PHE:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:241:ASN:HB3	11:W:109:TRP:CZ2	2.53	0.44
4:P:26:THR:C	4:P:28:LEU:H	2.25	0.44
4:P:176:ASP:C	4:P:178:LEU:N	2.75	0.44
4:P:176:ASP:O	4:P:178:LEU:N	2.51	0.44
5:Q:115:ILE:HG22	5:Q:116:THR:N	2.32	0.44
7:S:99:PHE:CD1	7:S:99:PHE:C	2.95	0.44
8:T:111:ILE:HG22	8:T:112:LYS:H	1.81	0.44
1:A:200:ARG:HH11	1:A:200:ARG:HB3	1.82	0.44
1:A:445:PHE:CZ	1:A:488:MET:HE3	2.52	0.44
1:A:869:TYR:CD2	1:A:1060:VAL:HG21	2.52	0.44
1:A:1122:LEU:HD23	1:A:1126:ILE:O	2.18	0.44
1:A:1195:LEU:HD12	1:A:1196:ARG:N	2.33	0.44
2:B:725:ARG:HH12	2:B:1047:PHE:HA	1.81	0.44
2:B:1012:ILE:HD13	2:B:1092:TYR:OH	2.18	0.44
2:B:1074:ASN:HB2	2:B:1081:LEU:HD21	2.00	0.44
3:C:32:LEU:O	3:C:33:ARG:C	2.61	0.44
3:C:128:ASN:O	3:C:129:VAL:HB	2.17	0.44
3:C:218:VAL:H	3:C:218:VAL:HG23	1.22	0.44
5:E:102:LYS:HB3	5:E:104:PHE:CE2	2.53	0.44
9:I:106:CYS:O	9:I:107:LYS:CG	2.65	0.44
11:K:24:ASP:OD1	11:K:26:ARG:HB2	2.18	0.44
12:L:52:GLU:O	12:L:53:CYS:C	2.61	0.44
1:M:41:MET:HE2	1:M:41:MET:H	1.83	0.44
1:M:962:LEU:CA	1:M:965:ILE:HG22	2.45	0.44
1:M:1122:LEU:HD23	1:M:1126:ILE:O	2.18	0.44
1:M:1389:ARG:NE	1:M:1406:GLU:OE1	2.40	0.44
1:M:1445:ASP:CB	6:R:137:TYR:HE1	2.29	0.44
2:N:167:SER:O	2:N:173:ARG:HB3	2.18	0.44
2:N:752:ALA:O	2:N:755:ILE:CG1	2.65	0.44
2:N:845:SER:O	2:N:850:LEU:HB3	2.18	0.44
2:N:1165:ILE:O	4:P:15:ALA:HA	2.18	0.44
2:N:1192:TYR:N	2:N:1192:TYR:CD1	2.86	0.44
4:P:25:ALA:C	4:P:27:LEU:N	2.71	0.44
4:P:88:GLU:C	4:P:90:ALA:H	2.26	0.44
5:Q:58:SER:OG	5:Q:80:GLU:HG3	2.17	0.44
5:Q:84:GLU:C	5:Q:86:SER:H	2.24	0.44
8:T:12:VAL:HB	8:T:52:ASP:H	1.83	0.44
10:V:1:MET:N	10:V:55:LEU:HB2	2.33	0.44
1:A:351:ARG:HD2	2:B:1128:LEU:HD21	2.00	0.44
1:A:530:CYS:HA	1:A:750:ALA:HB1	1.98	0.44
1:A:549:ASN:HD21	11:K:47:ARG:CZ	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:964:ARG:O	1:A:967:GLN:N	2.51	0.44
1:A:1294:VAL:HA	1:A:1295:PRO:HD3	1.75	0.44
2:B:108:ASN:HA	2:B:198:GLY:CA	2.47	0.44
2:B:845:SER:O	2:B:850:LEU:HB3	2.18	0.44
2:B:890:TYR:CD2	2:B:910:ILE:HG21	2.51	0.44
2:B:969:ARG:NH1	3:C:60:GLU:OE1	2.51	0.44
2:B:992:VAL:CG2	2:B:993:THR:H	2.27	0.44
2:B:1030:LEU:O	2:B:1031:LEU:C	2.61	0.44
3:C:241:ASN:HB3	11:K:109:TRP:CZ2	2.52	0.44
5:E:160:LYS:HG3	5:E:194:VAL:HG21	2.00	0.44
6:F:124:GLU:O	6:F:130:ILE:HG13	2.18	0.44
7:G:99:PHE:CD1	7:G:99:PHE:C	2.95	0.44
8:H:27:ILE:HA	8:H:38:LEU:O	2.18	0.44
10:J:6:ARG:HG2	10:J:13:VAL:HA	1.98	0.44
11:K:6:ARG:C	11:K:8:GLU:H	2.25	0.44
1:M:17:VAL:HG23	1:M:1424:CYS:SG	2.58	0.44
1:M:200:ARG:HH11	1:M:200:ARG:HB3	1.82	0.44
1:M:319:SER:N	2:N:464:LYS:HG2	2.31	0.44
1:M:529:LEU:HD21	1:M:750:ALA:O	2.16	0.44
1:M:591:ARG:HH21	1:M:621:LYS:HB3	1.73	0.44
1:M:895:HIS:O	1:M:899:TYR:HB3	2.18	0.44
1:M:902:LEU:N	1:M:927:GLN:NE2	2.62	0.44
1:M:999:LEU:HD13	1:M:1020:PHE:HE2	1.82	0.44
1:M:1163:THR:CG2	1:M:1165:ILE:H	2.25	0.44
1:M:1294:VAL:HA	1:M:1295:PRO:HD3	1.75	0.44
1:M:1346:ALA:HB1	5:Q:148:LEU:HB2	1.99	0.44
2:N:183:MET:C	2:N:185:GLU:H	2.25	0.44
2:N:479:TYR:CD2	2:N:479:TYR:N	2.83	0.44
2:N:556:MET:HE1	2:N:573:ILE:CG1	2.48	0.44
2:N:758:PHE:N	2:N:759:PRO:CD	2.81	0.44
2:N:984:HIS:HB3	2:N:1022:THR:OG1	2.18	0.44
2:N:1030:LEU:O	2:N:1031:LEU:C	2.61	0.44
3:O:87:CYS:SG	3:O:87:CYS:O	2.75	0.44
4:P:102:VAL:O	4:P:103:LYS:C	2.61	0.44
5:Q:21:MET:HE3	5:Q:25:ARG:HH21	1.83	0.44
5:Q:32:GLU:C	5:Q:34:MET:H	2.24	0.44
5:Q:86:SER:O	5:Q:87:VAL:C	2.60	0.44
7:S:132:SER:HB3	7:S:135:GLU:N	2.32	0.44
8:T:27:ILE:HA	8:T:38:LEU:O	2.18	0.44
12:X:52:GLU:O	12:X:53:CYS:C	2.60	0.44
1:A:801:VAL:HG22	1:A:813:GLU:CA	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:879:VAL:HG13	1:A:958:LEU:C	2.42	0.44
1:A:895:HIS:O	1:A:899:TYR:HB3	2.18	0.44
1:A:916:TYR:CG	1:A:920:ILE:CD1	3.00	0.44
1:A:1144:THR:HA	1:A:1276:LEU:HD13	1.98	0.44
1:A:1208:GLN:O	1:A:1277:ARG:NH1	2.50	0.44
2:B:111:TYR:CE2	2:B:170:CYS:SG	3.09	0.44
2:B:401:LEU:O	2:B:404:PRO:HD2	2.18	0.44
2:B:1064:TYR:O	2:B:1065:GLN:C	2.61	0.44
2:B:1116:ARG:HD2	2:B:1198:TYR:CD1	2.53	0.44
3:C:59:ASP:HB3	12:L:69:PHE:CZ	2.52	0.44
12:L:57:VAL:O	12:L:58:ILE:CB	2.66	0.44
1:M:457:MET:HE1	1:M:475:VAL:HG23	2.00	0.44
1:M:530:CYS:HA	1:M:750:ALA:HB1	1.99	0.44
1:M:916:TYR:CG	1:M:920:ILE:CD1	3.00	0.44
2:N:281:LEU:HD13	2:N:368:THR:CB	2.48	0.44
2:N:612:ILE:C	2:N:614:GLU:N	2.76	0.44
2:N:882:THR:HG21	2:N:884:ARG:HB2	1.99	0.44
2:N:1106:ARG:HG3	2:N:1107:ALA:N	2.33	0.44
6:R:83:PRO:HA	6:R:146:TRP:CZ3	2.53	0.44
6:R:123:LYS:C	6:R:125:LEU:N	2.74	0.44
1:A:72:GLU:HB3	1:A:76:GLU:HB3	1.98	0.44
1:A:606:MET:HG2	1:A:622:THR:HG23	2.00	0.44
1:A:1081:MET:HG2	1:A:1362:ASP:OD2	2.18	0.44
1:A:1195:LEU:HD22	1:A:1263:LEU:HD11	2.00	0.44
1:A:1197:LEU:HD11	1:A:1270:MET:CE	2.25	0.44
1:A:1345:GLU:OE2	5:E:211:ARG:NH1	2.51	0.44
2:B:16:ASP:HB3	2:B:652:ILE:HD13	1.99	0.44
2:B:426:GLN:C	2:B:427:ARG:HG3	2.43	0.44
2:B:609:ILE:HG13	2:B:694:GLU:HA	2.00	0.44
2:B:821:GLN:NE2	2:B:850:LEU:HD12	2.32	0.44
3:C:248:ILE:HG23	11:K:98:LEU:HD22	2.00	0.44
5:E:81:PHE:CA	5:E:110:ILE:CG2	2.88	0.44
6:F:79:ARG:HG2	6:F:144:GLU:OE1	2.17	0.44
6:F:83:PRO:HA	6:F:146:TRP:CZ3	2.53	0.44
8:H:3:SER:O	8:H:60:ALA:HB1	2.18	0.44
10:J:1:MET:N	10:J:55:LEU:HB2	2.33	0.44
1:M:44:SER:O	1:M:45:ARG:CB	2.65	0.44
1:M:578:LEU:O	1:M:579:LEU:C	2.60	0.44
1:M:869:TYR:CD2	1:M:1060:VAL:HG21	2.52	0.44
1:M:1294:VAL:HG13	1:M:1295:PRO:CD	2.48	0.44
2:N:56:LEU:HB3	2:N:425:MET:HE1	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:609:ILE:N	2:N:609:ILE:CD1	2.77	0.44
2:N:1012:ILE:HD13	2:N:1092:TYR:OH	2.18	0.44
2:N:1074:ASN:HB2	2:N:1081:LEU:HD21	2.00	0.44
2:N:1190:ASN:C	2:N:1191:ILE:HG13	2.42	0.44
3:O:128:ASN:O	3:O:129:VAL:HB	2.17	0.44
3:O:263:GLU:C	3:O:265:SER:H	2.26	0.44
7:S:83:LYS:C	7:S:85:GLU:H	2.26	0.44
9:U:55:THR:O	9:U:56:ALA:C	2.60	0.44
1:A:17:VAL:HG23	1:A:1424:CYS:SG	2.58	0.44
1:A:62:ASP:O	1:A:63:ARG:HB2	2.18	0.44
1:A:478:PRO:CG	1:A:522:MET:HG2	2.48	0.44
1:A:769:GLN:OE1	1:A:820:ALA:HB3	2.18	0.44
1:A:941:ARG:HG2	1:A:941:ARG:NH1	2.32	0.44
2:B:379:LEU:C	2:B:381:CYS:N	2.75	0.44
2:B:702:MET:H	2:B:707:LEU:HD12	1.83	0.44
4:D:47:ASP:C	4:D:48:LEU:O	2.59	0.44
5:E:21:MET:HE3	5:E:25:ARG:HH21	1.83	0.44
5:E:107:GLY:C	5:E:108:ILE:HG13	2.41	0.44
7:G:129:ALA:HB1	7:G:137:ILE:O	2.18	0.44
10:J:21:TYR:C	10:J:23:ARG:N	2.74	0.44
10:J:46:ARG:HH11	10:J:46:ARG:CG	2.30	0.44
1:M:887:ILE:HG22	1:M:888:PRO:N	2.33	0.44
1:M:1283:SER:O	1:M:1285:VAL:HG23	2.18	0.44
1:M:1387:ILE:O	1:M:1387:ILE:HG23	2.18	0.44
1:M:1425:ARG:HH22	2:N:1224:SER:C	2.26	0.44
2:N:379:LEU:C	2:N:381:CYS:N	2.75	0.44
2:N:955:THR:N	2:N:963:PHE:O	2.51	0.44
2:N:1197:PRO:HG2	2:N:1200:ALA:HB2	2.00	0.44
7:S:22:MET:O	7:S:25:TYR:N	2.51	0.44
7:S:154:VAL:HB	7:S:155:ASN:H	1.56	0.44
8:T:19:ARG:O	8:T:20:TYR:HD2	2.01	0.44
1:A:167:GLY:O	1:A:168:CYS:SG	2.72	0.43
1:A:342:MET:CE	1:A:844:LYS:HZ3	2.31	0.43
1:A:498:THR:HG21	2:B:1149:GLU:OE1	2.17	0.43
1:A:567:LEU:O	1:A:568:LYS:C	2.61	0.43
1:A:578:LEU:O	1:A:579:LEU:C	2.60	0.43
1:A:598:LEU:N	1:A:598:LEU:CD1	2.78	0.43
1:A:738:LEU:HA	1:A:738:LEU:HD23	1.79	0.43
1:A:887:ILE:HG22	1:A:888:PRO:N	2.33	0.43
1:A:1388:THR:O	1:A:1389:ARG:C	2.61	0.43
2:B:44:THR:O	2:B:45:SER:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:480:THR:CG2	2:B:481:TYR:N	2.81	0.43
2:B:556:MET:HE1	2:B:573:ILE:CG1	2.48	0.43
2:B:612:ILE:C	2:B:614:GLU:N	2.76	0.43
2:B:702:MET:HB3	2:B:703:THR:H	1.54	0.43
2:B:956:THR:HG22	2:B:957:ASN:O	2.17	0.43
4:D:67:ARG:C	4:D:69:ARG:N	2.71	0.43
4:D:102:VAL:O	4:D:103:LYS:C	2.61	0.43
6:F:100:GLN:NE2	7:G:66:GLY:C	2.76	0.43
7:G:132:SER:C	7:G:134:ASP:N	2.75	0.43
7:G:160:ILE:CG2	7:G:161:GLY:N	2.81	0.43
8:H:12:VAL:HB	8:H:52:ASP:H	1.83	0.43
8:H:19:ARG:O	8:H:20:TYR:HD2	2.01	0.43
10:J:9:SER:OG	10:J:47:ARG:NH2	2.51	0.43
1:M:278:GLN:C	1:M:280:LEU:H	2.25	0.43
1:M:321:ARG:HH11	1:M:321:ARG:HG3	1.83	0.43
1:M:478:PRO:CG	1:M:522:MET:HG2	2.48	0.43
1:M:591:ARG:O	1:M:592:THR:CB	2.66	0.43
1:M:1274:ILE:O	1:M:1274:ILE:HG22	2.18	0.43
1:M:1393:ASN:CB	1:M:1405:PHE:CD2	3.01	0.43
2:N:545:GLU:HA	2:N:548:ILE:HB	2.00	0.43
2:N:773:MET:SD	2:N:987:LYS:HB3	2.58	0.43
2:N:1064:TYR:O	2:N:1065:GLN:C	2.60	0.43
3:O:132:PRO:O	3:O:133:VAL:C	2.60	0.43
3:O:239:LYS:O	3:O:240:ALA:C	2.61	0.43
5:Q:102:LYS:HB3	5:Q:104:PHE:CE2	2.53	0.43
5:Q:160:LYS:HG3	5:Q:194:VAL:HG21	2.00	0.43
9:U:109:THR:HG22	9:U:109:THR:O	2.17	0.43
10:V:43:TYR:CA	10:V:46:ARG:HB2	2.32	0.43
1:A:27:ILE:CG1	1:A:239:VAL:HG22	2.48	0.43
1:A:173:PRO:HB3	1:A:186:TRP:CD2	2.52	0.43
1:A:267:LEU:HD23	1:A:267:LEU:HA	1.86	0.43
1:A:424:ASP:HB3	1:A:425:ILE:H	1.60	0.43
1:A:1208:GLN:O	1:A:1209:LEU:HD23	2.17	0.43
1:A:1368:TYR:O	1:A:1369:ARG:C	2.61	0.43
2:B:281:LEU:HD13	2:B:368:THR:CB	2.48	0.43
2:B:605:GLU:HG2	2:B:605:GLU:O	2.18	0.43
2:B:1039:GLY:HA2	10:J:50:LEU:HD21	1.96	0.43
2:B:1197:PRO:O	2:B:1200:ALA:N	2.50	0.43
4:D:50:ALA:HB2	4:D:139:PRO:O	2.18	0.43
4:D:88:GLU:C	4:D:90:ALA:H	2.26	0.43
6:F:145:ASP:C	6:F:146:TRP:CD1	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:320:GLY:HA2	2:N:464:LYS:C	2.38	0.43
1:M:445:PHE:CZ	1:M:488:MET:HE3	2.52	0.43
1:M:739:LYS:H	1:M:739:LYS:CD	2.06	0.43
1:M:879:VAL:HG13	1:M:958:LEU:C	2.42	0.43
1:M:1374:LEU:HD12	1:M:1374:LEU:C	2.43	0.43
1:M:1428:SER:O	1:M:1429:GLU:C	2.61	0.43
2:N:107:ARG:NH2	2:N:956:THR:HB	2.33	0.43
2:N:480:THR:CG2	2:N:481:TYR:N	2.82	0.43
2:N:969:ARG:NH1	3:O:60:GLU:OE1	2.51	0.43
7:S:129:ALA:HB1	7:S:137:ILE:O	2.18	0.43
10:V:6:ARG:HG2	10:V:13:VAL:HA	1.99	0.43
1:A:41:MET:HE2	1:A:41:MET:H	1.83	0.43
1:A:117:GLU:H	1:A:117:GLU:CD	2.26	0.43
1:A:342:MET:HE2	1:A:844:LYS:HZ3	1.78	0.43
1:A:356:GLY:N	1:A:483:PHE:CZ	2.87	0.43
1:A:591:ARG:O	1:A:592:THR:CB	2.66	0.43
1:A:1129:ASP:O	1:A:1132:LYS:HB3	2.18	0.43
1:A:1316:LEU:O	1:A:1317:ALA:C	2.61	0.43
1:A:1388:THR:O	1:A:1390:HIS:N	2.51	0.43
1:A:1425:ARG:HH22	2:B:1224:SER:C	2.26	0.43
2:B:203:LEU:HD23	2:B:203:LEU:HA	1.84	0.43
2:B:466:MET:HE3	2:B:467:SER:N	2.33	0.43
2:B:800:GLN:CG	10:J:51:THR:HG22	2.42	0.43
2:B:882:THR:HG21	2:B:884:ARG:HB2	1.99	0.43
4:D:176:ASP:O	4:D:178:LEU:N	2.51	0.43
5:E:160:LYS:HD2	5:E:194:VAL:HG23	2.01	0.43
7:G:132:SER:HB3	7:G:135:GLU:N	2.32	0.43
11:K:58:PHE:HE2	11:K:74:ARG:HD3	1.84	0.43
1:M:116:ASP:C	1:M:118:THR:N	2.71	0.43
1:M:135:PHE:HB2	1:M:224:GLY:N	2.33	0.43
1:M:262:ASP:O	1:M:265:HIS:HB2	2.18	0.43
1:M:345:ARG:HB3	2:N:1129:ARG:HB2	2.00	0.43
1:M:630:LEU:C	1:M:633:THR:CG2	2.90	0.43
1:M:1081:MET:HG2	1:M:1362:ASP:OD2	2.18	0.43
1:M:1316:LEU:O	1:M:1317:ALA:C	2.61	0.43
1:M:1388:THR:O	1:M:1389:ARG:C	2.61	0.43
2:N:838:SER:HA	2:N:989:THR:O	2.18	0.43
2:N:857:ARG:O	2:N:967:ARG:HA	2.17	0.43
3:O:32:LEU:O	3:O:33:ARG:C	2.61	0.43
4:P:54:SER:HB3	4:P:113:ALA:CA	2.47	0.43
5:Q:128:PRO:O	5:Q:129:ALA:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:73:ALA:O	6:R:74:ILE:HB	2.18	0.43
10:V:1:MET:H3	10:V:55:LEU:CB	2.31	0.43
11:W:24:ASP:OD1	11:W:26:ARG:HB2	2.18	0.43
1:A:1157:ASP:OD2	1:A:1163:THR:HA	2.18	0.43
1:A:1177:SER:O	1:A:1178:ILE:C	2.62	0.43
2:B:180:LEU:O	2:B:181:TYR:C	2.62	0.43
2:B:369:PHE:HB3	2:B:579:TRP:HZ3	1.80	0.43
2:B:758:PHE:CE2	2:B:1044:ALA:HA	2.53	0.43
2:B:859:TYR:OH	2:B:941:LEU:CD1	2.64	0.43
2:B:1098:MET:HE3	2:B:1098:MET:H	1.84	0.43
2:B:1162:VAL:CG1	2:B:1163:CYS:H	2.28	0.43
4:D:176:ASP:C	4:D:178:LEU:N	2.75	0.43
5:E:86:SER:O	5:E:87:VAL:C	2.60	0.43
10:J:7:CYS:SG	10:J:48:MET:CE	3.04	0.43
1:M:27:ILE:CG1	1:M:239:VAL:HG12	2.48	0.43
1:M:424:ASP:HB3	1:M:425:ILE:H	1.60	0.43
1:M:563:GLN:HA	1:M:564:PRO:HD3	1.80	0.43
1:M:995:LEU:O	1:M:996:CYS:C	2.60	0.43
1:M:1208:GLN:O	1:M:1277:ARG:NH1	2.51	0.43
1:M:1388:THR:O	1:M:1390:HIS:N	2.51	0.43
2:N:426:GLN:C	2:N:427:ARG:HG3	2.43	0.43
2:N:609:ILE:HG13	2:N:694:GLU:HA	2.00	0.43
2:N:1189:THR:HG22	2:N:1190:ASN:N	2.33	0.43
3:O:25:ASN:O	3:O:26:LEU:C	2.61	0.43
3:O:45:ILE:HG13	3:O:71:LEU:HD11	1.99	0.43
6:R:82:THR:HG22	6:R:84:TYR:HB2	2.01	0.43
9:U:14:LEU:HD13	9:U:28:SER:N	2.33	0.43
9:U:108:LYS:CG	9:U:109:THR:H	2.31	0.43
1:A:100:LYS:HG3	1:A:182:LEU:CD2	2.47	0.43
1:A:771:VAL:HG12	1:A:772:GLU:N	2.34	0.43
1:A:1228:VAL:HG22	1:A:1242:CYS:HB3	1.99	0.43
1:A:1274:ILE:O	1:A:1274:ILE:HG22	2.18	0.43
2:B:35:LEU:O	2:B:36:ASP:C	2.62	0.43
2:B:532:LEU:HD22	2:B:536:SER:OG	2.19	0.43
2:B:603:SER:C	2:B:605:GLU:H	2.27	0.43
2:B:1159:ARG:NH1	2:B:1159:ARG:CB	2.66	0.43
3:C:161:LYS:HB3	3:C:162:GLY:H	1.64	0.43
4:D:105:THR:O	4:D:105:THR:HG22	2.17	0.43
6:F:82:THR:HG22	6:F:84:TYR:HB2	2.01	0.43
9:I:14:LEU:HD13	9:I:28:SER:N	2.33	0.43
1:M:312:GLN:CB	1:M:313:PRO:CD	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:826:ILE:O	1:M:830:VAL:HG23	2.17	0.43
1:M:1447:MET:SD	6:R:135:ARG:HD2	2.58	0.43
2:N:797:TYR:CE1	2:N:854:LEU:HD23	2.53	0.43
2:N:868:ILE:O	2:N:870:ILE:HG13	2.17	0.43
2:N:969:ARG:HG2	2:N:970:THR:H	1.84	0.43
2:N:1071:VAL:O	2:N:1072:MET:HG2	2.19	0.43
4:P:50:ALA:HB2	4:P:139:PRO:O	2.18	0.43
6:R:145:ASP:C	6:R:146:TRP:CD1	2.97	0.43
8:T:134:LEU:HD13	8:T:136:GLN:HE22	1.76	0.43
10:V:9:SER:OG	10:V:47:ARG:NH2	2.51	0.43
11:W:10:PHE:HA	11:W:37:ARG:HB3	2.01	0.43
11:W:58:PHE:HE2	11:W:74:ARG:HD3	1.84	0.43
1:A:120:PRO:C	1:A:122:MET:N	2.77	0.43
1:A:212:PHE:HA	1:A:215:ILE:CD1	2.49	0.43
1:A:312:GLN:CB	1:A:313:PRO:CD	2.96	0.43
1:A:1441:THR:HB	2:B:1144:ALA:HB3	2.00	0.43
2:B:898:LEU:HD13	2:B:952:VAL:CG1	2.48	0.43
2:B:955:THR:N	2:B:963:PHE:O	2.51	0.43
2:B:1100:ASP:OD2	11:K:1:MET:HB2	2.19	0.43
2:B:1159:ARG:CD	2:B:1193:GLN:NE2	2.78	0.43
2:B:1162:VAL:HA	2:B:1168:LEU:O	2.19	0.43
3:C:96:VAL:HG12	3:C:98:LEU:HD21	2.00	0.43
3:C:131:GLU:HA	3:C:132:PRO:HD3	1.74	0.43
7:G:22:MET:O	7:G:25:TYR:N	2.51	0.43
8:H:111:ILE:HG22	8:H:112:LYS:H	1.81	0.43
1:M:41:MET:H	1:M:41:MET:HE3	1.82	0.43
1:M:212:PHE:HA	1:M:215:ILE:CD1	2.49	0.43
1:M:548:MET:HB3	11:W:58:PHE:HE1	1.84	0.43
1:M:786:PRO:HG2	1:M:787:HIS:CD2	2.53	0.43
1:M:941:ARG:HG2	1:M:941:ARG:NH1	2.32	0.43
1:M:1017:THR:O	1:M:1018:SER:C	2.62	0.43
1:M:1368:TYR:O	1:M:1369:ARG:C	2.61	0.43
2:N:387:ASP:CG	9:U:91:ARG:CG	2.84	0.43
2:N:508:HIS:HD2	2:N:510:THR:OG1	2.02	0.43
2:N:540:ILE:N	2:N:605:GLU:OE2	2.51	0.43
2:N:745:PRO:C	2:N:747:MET:N	2.75	0.43
2:N:1108:ARG:CG	2:N:1108:ARG:O	2.67	0.43
3:O:116:SER:HB3	3:O:140:GLN:HA	2.01	0.43
8:T:10:PHE:CD1	8:T:10:PHE:N	2.86	0.43
8:T:81:PRO:C	8:T:83:PRO:N	2.77	0.43
10:V:7:CYS:CA	10:V:48:MET:HE3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:44:SER:O	1:A:45:ARG:CB	2.65	0.43
1:A:839:GLN:O	1:A:843:VAL:HG23	2.19	0.43
1:A:948:VAL:HG12	1:A:949:PHE:CD2	2.54	0.43
1:A:962:LEU:C	1:A:965:ILE:HG22	2.42	0.43
1:A:1017:THR:O	1:A:1018:SER:C	2.61	0.43
1:A:1040:ASN:CG	1:A:1042:ASP:HB3	2.44	0.43
1:A:1415:ALA:HA	1:A:1420:GLU:OE2	2.19	0.43
1:A:1428:SER:O	1:A:1429:GLU:C	2.61	0.43
2:B:304:GLU:O	2:B:305:MET:C	2.62	0.43
2:B:540:ILE:N	2:B:605:GLU:OE2	2.51	0.43
2:B:773:MET:SD	2:B:987:LYS:HB3	2.58	0.43
2:B:777:ALA:HA	2:B:1095:LEU:HA	2.00	0.43
2:B:1065:GLN:HE21	2:B:1067:ARG:N	2.17	0.43
2:B:1108:ARG:O	2:B:1108:ARG:CG	2.67	0.43
2:B:1189:THR:HG22	2:B:1190:ASN:N	2.33	0.43
4:D:35:ALA:C	4:D:37:LYS:H	2.27	0.43
5:E:84:GLU:C	5:E:86:SER:H	2.24	0.43
1:M:333:LYS:CA	1:M:338:ARG:HD2	2.49	0.43
1:M:479:TYR:O	1:M:480:ASN:HB3	2.18	0.43
1:M:609:VAL:C	1:M:611:GLY:H	2.27	0.43
1:M:680:ILE:O	1:M:681:THR:C	2.60	0.43
1:M:883:THR:HA	1:M:954:HIS:O	2.19	0.43
1:M:964:ARG:O	1:M:967:GLN:N	2.51	0.43
1:M:1345:GLU:OE2	5:Q:211:ARG:NH1	2.51	0.43
2:N:347:ASP:C	2:N:349:LEU:H	2.27	0.43
2:N:1060:ARG:HD2	2:N:1060:ARG:HA	1.78	0.43
2:N:1169:MET:HE2	2:N:1204:PHE:CB	2.49	0.43
2:N:1217:TYR:CE2	4:P:14:ARG:N	2.83	0.43
10:V:55:LEU:O	10:V:57:GLU:N	2.52	0.43
1:A:333:LYS:CA	1:A:338:ARG:HD2	2.49	0.43
1:A:346:VAL:HG11	2:B:1130:PHE:CB	2.47	0.43
1:A:471:LEU:HD12	1:A:471:LEU:O	2.19	0.43
1:A:609:VAL:O	1:A:611:GLY:N	2.52	0.43
1:A:780:PHE:CE2	2:B:510:THR:HA	2.54	0.43
1:A:786:PRO:HG2	1:A:787:HIS:CD2	2.53	0.43
2:B:54:PRO:HB2	2:B:79:PHE:CD1	2.53	0.43
2:B:107:ARG:NH2	2:B:956:THR:HB	2.33	0.43
2:B:1085:VAL:CG1	2:B:1086:PHE:N	2.81	0.43
2:B:1120:GLU:CG	2:B:1121:GLY:N	2.81	0.43
2:B:1192:TYR:N	2:B:1192:TYR:CD1	2.86	0.43
2:B:1201:LYS:HG2	2:B:1202:LEU:N	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:306:ASP:OD1	1:M:307:ASN:N	2.52	0.43
1:M:549:ASN:HD21	11:W:47:ARG:CZ	2.31	0.43
1:M:606:MET:HG2	1:M:622:THR:HG23	2.00	0.43
1:M:710:THR:CG2	9:U:94:ASP:HA	2.49	0.43
1:M:729:SER:O	1:M:730:ALA:C	2.61	0.43
1:M:839:GLN:O	1:M:843:VAL:HG23	2.19	0.43
1:M:895:HIS:C	1:M:897:ARG:H	2.27	0.43
1:M:1129:ASP:O	1:M:1132:LYS:HB3	2.18	0.43
1:M:1177:SER:O	1:M:1178:ILE:C	2.61	0.43
1:M:1352:TYR:HA	1:M:1355:ILE:CG2	2.48	0.43
2:N:35:LEU:O	2:N:36:ASP:C	2.62	0.43
2:N:225:ILE:CG2	2:N:228:VAL:HG23	2.46	0.43
2:N:287:GLY:CA	2:N:290:LEU:HD23	2.48	0.43
2:N:737:THR:HG22	9:U:66:PRO:HA	1.98	0.43
2:N:843:GLN:O	2:N:846:ILE:N	2.51	0.43
2:N:1100:ASP:OD2	11:W:1:MET:HB2	2.19	0.43
3:O:16:GLU:O	3:O:17:VAL:CG2	2.67	0.43
3:O:28:LEU:HA	11:W:45:LEU:CD1	2.49	0.43
6:R:124:GLU:O	6:R:130:ILE:HG13	2.18	0.43
8:T:3:SER:O	8:T:60:ALA:HB1	2.18	0.43
8:T:5:LEU:HD22	8:T:132:ALA:O	2.19	0.43
1:A:214:HIS:O	1:A:215:ILE:C	2.60	0.43
1:A:609:VAL:C	1:A:611:GLY:H	2.27	0.43
1:A:1153:GLU:HG2	9:I:45:ARG:HG3	2.01	0.43
2:B:231:ILE:HG21	2:B:374:MET:CE	2.49	0.43
2:B:287:GLY:CA	2:B:290:LEU:HD23	2.48	0.43
3:C:25:ASN:O	3:C:26:LEU:C	2.61	0.43
3:C:263:GLU:C	3:C:265:SER:H	2.26	0.43
5:E:12:TRP:O	5:E:15:PHE:HB3	2.18	0.43
7:G:138:THR:O	7:G:139:LYS:C	2.62	0.43
9:I:108:LYS:CG	9:I:109:THR:H	2.31	0.43
10:J:55:LEU:O	10:J:57:GLU:N	2.51	0.43
1:M:75:ALA:C	2:N:1116:ARG:HH12	2.26	0.43
1:M:117:GLU:CD	1:M:117:GLU:H	2.26	0.43
1:M:254:ASP:O	1:M:255:GLU:HG3	2.19	0.43
1:M:520:PRO:HD3	1:M:632:HIS:CD2	2.54	0.43
1:M:664:SER:OG	1:M:665:ILE:N	2.52	0.43
1:M:859:ASN:ND2	1:M:861:LEU:N	2.59	0.43
1:M:948:VAL:HG12	1:M:949:PHE:CD2	2.54	0.43
1:M:1195:LEU:HD22	1:M:1263:LEU:HD11	2.00	0.43
2:N:24:PHE:C	2:N:24:PHE:CD1	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:54:PRO:HB2	2:N:79:PHE:CD1	2.53	0.43
2:N:381:CYS:O	2:N:383:LEU:N	2.52	0.43
2:N:442:LYS:O	2:N:444:THR:N	2.44	0.43
2:N:605:GLU:O	2:N:605:GLU:HG2	2.18	0.43
2:N:882:THR:O	2:N:883:LEU:CB	2.63	0.43
2:N:1084:GLN:NE2	2:N:1084:GLN:N	2.67	0.43
2:N:1125:ASP:O	2:N:1126:GLY:O	2.37	0.43
11:W:50:LEU:C	11:W:52:LEU:N	2.76	0.43
1:A:479:TYR:O	1:A:480:ASN:HB3	2.18	0.43
1:A:548:MET:HB3	11:K:58:PHE:HE1	1.84	0.43
1:A:761:GLN:HG2	1:A:766:VAL:O	2.19	0.43
1:A:781:ALA:O	1:A:783:ARG:HG2	2.19	0.43
1:A:911:PRO:HB3	1:A:917:ALA:HB1	1.84	0.43
1:A:1449:ASP:OD1	1:A:1452:LEU:CG	2.67	0.43
2:B:466:MET:O	2:B:468:SER:N	2.40	0.43
2:B:891:GLU:C	2:B:893:LEU:H	2.27	0.43
2:B:1013:ASN:OD1	2:B:1015:HIS:HB2	2.19	0.43
2:B:1084:GLN:N	2:B:1084:GLN:NE2	2.67	0.43
2:B:1220:ARG:NH1	2:B:1220:ARG:CB	2.77	0.43
4:D:122:THR:CB	4:D:126:GLN:HE21	2.32	0.43
6:F:73:ALA:O	6:F:74:ILE:HB	2.18	0.43
10:J:7:CYS:CA	10:J:48:MET:HE3	2.49	0.43
1:M:306:ASP:OD2	1:M:327:ARG:HD3	2.18	0.43
1:M:567:LEU:O	1:M:568:LYS:C	2.61	0.43
1:M:780:PHE:CE2	2:N:510:THR:HA	2.54	0.43
1:M:835:THR:CG2	1:M:836:GLY:N	2.81	0.43
1:M:1065:MET:SD	1:M:1439:MET:HA	2.59	0.43
1:M:1153:GLU:HG2	9:U:45:ARG:HG3	2.01	0.43
1:M:1199:LEU:HD11	1:M:1240:ILE:HD11	2.01	0.43
1:M:1263:LEU:HD12	1:M:1263:LEU:C	2.44	0.43
2:N:14:THR:C	2:N:16:ASP:N	2.77	0.43
2:N:304:GLU:O	2:N:305:MET:C	2.62	0.43
2:N:401:LEU:O	2:N:404:PRO:HD2	2.18	0.43
2:N:532:LEU:HD22	2:N:536:SER:OG	2.19	0.43
2:N:603:SER:C	2:N:605:GLU:H	2.27	0.43
2:N:603:SER:HA	2:N:604:PRO:HD3	1.92	0.43
2:N:777:ALA:HA	2:N:1095:LEU:HA	2.00	0.43
2:N:874:PHE:HA	2:N:913:GLY:O	2.18	0.43
2:N:954:LEU:O	12:X:57:VAL:O	2.37	0.43
2:N:1120:GLU:CG	2:N:1121:GLY:N	2.81	0.43
3:O:68:LEU:HD12	3:O:68:LEU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:89:ILE:CG1	5:Q:118:SER:HB2	2.48	0.43
7:S:12:THR:HG22	7:S:67:SER:HB3	2.01	0.43
7:S:153:ASP:O	7:S:154:VAL:O	2.37	0.43
8:T:112:LYS:HA	8:T:124:LEU:O	2.19	0.43
1:A:90:VAL:O	1:A:236:ILE:HG23	2.19	0.42
1:A:262:ASP:O	1:A:265:HIS:HB2	2.18	0.42
1:A:303:THR:CG2	1:A:304:TYR:N	2.71	0.42
1:A:520:PRO:HD3	1:A:632:HIS:CD2	2.54	0.42
1:A:1199:LEU:HD11	1:A:1240:ILE:HD11	2.01	0.42
2:B:12:ILE:HD11	2:B:648:THR:N	2.34	0.42
2:B:180:LEU:O	2:B:182:LYS:N	2.52	0.42
2:B:459:TRP:HA	2:B:459:TRP:HE3	1.82	0.42
2:B:508:HIS:HD2	2:B:510:THR:OG1	2.02	0.42
2:B:590:VAL:C	2:B:592:THR:H	2.27	0.42
2:B:633:VAL:O	2:B:644:GLU:O	2.37	0.42
2:B:838:SER:HA	2:B:989:THR:O	2.19	0.42
2:B:969:ARG:HG2	2:B:970:THR:H	1.84	0.42
2:B:1197:PRO:HG2	2:B:1200:ALA:HB2	2.00	0.42
7:G:117:ASP:O	7:G:119:LEU:N	2.51	0.42
8:H:10:PHE:N	8:H:10:PHE:CD1	2.86	0.42
1:M:62:ASP:O	1:M:63:ARG:HB2	2.18	0.42
1:M:351:ARG:HD2	2:N:1128:LEU:HD21	2.00	0.42
1:M:1276:LEU:N	1:M:1276:LEU:CD1	2.82	0.42
2:N:14:THR:C	2:N:16:ASP:H	2.27	0.42
2:N:44:THR:O	2:N:45:SER:C	2.61	0.42
2:N:180:LEU:O	2:N:182:LYS:N	2.52	0.42
2:N:410:PHE:O	2:N:413:LEU:HB2	2.19	0.42
2:N:466:MET:HE3	2:N:467:SER:N	2.33	0.42
2:N:633:VAL:O	2:N:644:GLU:O	2.37	0.42
2:N:758:PHE:CE2	2:N:1044:ALA:HA	2.53	0.42
2:N:956:THR:HG22	2:N:957:ASN:N	2.34	0.42
2:N:1104:HIS:CG	2:N:1122:ARG:HB2	2.54	0.42
2:N:1162:VAL:HA	2:N:1168:LEU:O	2.19	0.42
4:P:35:ALA:C	4:P:37:LYS:H	2.27	0.42
4:P:122:THR:CB	4:P:126:GLN:HE21	2.32	0.42
11:W:109:TRP:O	11:W:110:ASN:C	2.61	0.42
12:X:57:VAL:O	12:X:58:ILE:CB	2.66	0.42
1:A:106:ILE:CG1	1:A:107:CYS:N	2.80	0.42
1:A:203:LEU:CG	1:A:207:GLU:N	2.82	0.42
1:A:306:ASP:OD1	1:A:307:ASN:N	2.52	0.42
1:A:417:ARG:C	1:A:418:TYR:HD2	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:465:PRO:O	1:A:466:TYR:O	2.36	0.42
1:A:780:PHE:CE1	1:A:786:PRO:CD	2.89	0.42
1:A:835:THR:CG2	1:A:836:GLY:N	2.81	0.42
1:A:916:TYR:CG	1:A:920:ILE:HD12	2.54	0.42
1:A:1353:LYS:O	1:A:1357:ASN:ND2	2.51	0.42
2:B:355:PRO:C	2:B:356:HIS:O	2.59	0.42
2:B:545:GLU:HA	2:B:548:ILE:HB	2.00	0.42
2:B:1104:HIS:CG	2:B:1122:ARG:HB2	2.54	0.42
2:B:1125:ASP:O	2:B:1126:GLY:O	2.37	0.42
2:B:1162:VAL:HG12	2:B:1163:CYS:H	1.77	0.42
3:C:65:ARG:HH11	10:J:2:ILE:HG21	1.82	0.42
4:D:67:ARG:O	4:D:71:ARG:HB2	2.19	0.42
5:E:128:PRO:O	5:E:129:ALA:C	2.61	0.42
7:G:83:LYS:C	7:G:85:GLU:H	2.26	0.42
7:G:126:SER:HA	7:G:127:PRO:HA	1.73	0.42
12:L:63:THR:HG22	12:L:65:ARG:HG3	1.98	0.42
1:M:356:GLY:N	1:M:483:PHE:CZ	2.87	0.42
1:M:546:GLN:C	1:M:548:MET:N	2.77	0.42
1:M:882:GLN:NE2	1:M:961:ASN:HA	2.35	0.42
2:N:295:TYR:N	2:N:295:TYR:CD2	2.87	0.42
2:N:409:LEU:HD23	2:N:409:LEU:C	2.45	0.42
2:N:843:GLN:O	2:N:846:ILE:HB	2.19	0.42
2:N:1198:TYR:C	2:N:1198:TYR:HD2	2.27	0.42
5:Q:177:ILE:HG22	5:Q:212:ILE:O	2.19	0.42
7:S:30:LEU:HD22	7:S:72:VAL:HG11	2.01	0.42
7:S:127:PRO:O	7:S:128:PRO:C	2.62	0.42
8:T:26:ILE:CG2	8:T:27:ILE:N	2.82	0.42
1:A:20:GLY:HA2	1:A:1416:GLY:O	2.19	0.42
1:A:42:ASP:C	1:A:44:SER:N	2.77	0.42
1:A:130:ASP:C	1:A:132:LYS:N	2.77	0.42
1:A:1171:THR:O	1:A:1171:THR:HG22	2.20	0.42
1:A:1276:LEU:N	1:A:1276:LEU:CD1	2.82	0.42
1:A:1283:SER:O	1:A:1285:VAL:HG23	2.18	0.42
1:A:1294:VAL:HG13	1:A:1295:PRO:CD	2.48	0.42
2:B:798:TYR:CE2	3:C:61:PHE:CZ	3.08	0.42
2:B:874:PHE:HA	2:B:913:GLY:O	2.19	0.42
2:B:1169:MET:HE2	2:B:1204:PHE:CB	2.49	0.42
5:E:163:LEU:HD13	5:E:210:TYR:CE2	2.54	0.42
7:G:30:LEU:HD22	7:G:72:VAL:HG11	2.01	0.42
7:G:127:PRO:O	7:G:128:PRO:C	2.62	0.42
7:G:153:ASP:O	7:G:154:VAL:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:50:LEU:C	11:K:52:LEU:N	2.76	0.42
1:M:39:GLU:O	1:M:53:LEU:CB	2.67	0.42
1:M:49:ARG:O	1:M:50:GLU:C	2.63	0.42
2:N:702:MET:H	2:N:707:LEU:HD12	1.83	0.42
2:N:798:TYR:CE2	3:O:61:PHE:CZ	3.08	0.42
2:N:879:ARG:HB3	2:N:880:ALA:H	1.52	0.42
2:N:916:THR:HG22	2:N:918:ILE:HG13	2.00	0.42
2:N:973:VAL:HG12	2:N:974:PRO:O	2.20	0.42
4:P:52:SER:O	4:P:53:LEU:O	2.38	0.42
4:P:148:LEU:HD23	4:P:148:LEU:HA	1.87	0.42
6:R:97:ARG:HA	6:R:97:ARG:HD2	1.70	0.42
8:T:122:MET:HG2	8:T:123:CYS:N	2.33	0.42
9:U:90:GLN:HE21	9:U:92:ARG:HD3	1.85	0.42
10:V:35:LEU:CD1	10:V:46:ARG:NH1	2.82	0.42
1:A:75:ALA:O	1:A:76:GLU:CB	2.67	0.42
1:A:91:PHE:H	1:A:298:GLN:NE2	2.10	0.42
1:A:321:ARG:HG3	1:A:321:ARG:HH11	1.83	0.42
1:A:330:LEU:O	1:A:331:LYS:C	2.62	0.42
1:A:345:ARG:NH1	2:B:1129:ARG:HB2	2.34	0.42
1:A:615:PHE:CB	8:H:121:LEU:HD21	2.50	0.42
1:A:729:SER:O	1:A:730:ALA:C	2.61	0.42
1:A:1222:PHE:CD1	1:A:1226:LEU:HD23	2.54	0.42
1:A:1263:LEU:C	1:A:1263:LEU:HD12	2.44	0.42
2:B:347:ASP:C	2:B:349:LEU:H	2.27	0.42
2:B:363:PHE:HD2	2:B:366:ARG:HD2	1.84	0.42
2:B:524:GLN:HB2	2:B:525:ALA:H	1.59	0.42
2:B:794:ASN:C	2:B:795:ILE:HD12	2.45	0.42
2:B:1106:ARG:HG3	2:B:1107:ALA:N	2.33	0.42
3:C:28:LEU:HA	11:K:45:LEU:CD1	2.49	0.42
5:E:84:GLU:OE2	5:E:91:THR:HG21	2.19	0.42
6:F:125:LEU:HA	6:F:130:ILE:HD11	2.02	0.42
7:G:51:GLY:O	7:G:52:MET:C	2.62	0.42
8:H:26:ILE:CG2	8:H:27:ILE:N	2.82	0.42
11:K:10:PHE:HA	11:K:37:ARG:HB3	2.01	0.42
12:L:54:GLY:O	12:L:55:HIS:C	2.62	0.42
1:M:86:LEU:CG	1:M:238:THR:O	2.66	0.42
1:M:330:LEU:O	1:M:331:LYS:C	2.62	0.42
1:M:609:VAL:O	1:M:611:GLY:N	2.52	0.42
1:M:615:PHE:CB	8:T:121:LEU:HD21	2.49	0.42
1:M:1043:ALA:O	1:M:1046:TRP:HB3	2.20	0.42
1:M:1159:ASP:HA	1:M:1160:PRO:HD2	1.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1415:ALA:HA	1:M:1420:GLU:OE2	2.19	0.42
1:M:1453:LEU:HD13	6:R:131:PRO:HG3	2.01	0.42
2:N:87:PRO:HG3	2:N:163:ILE:HD12	2.01	0.42
2:N:186:CYS:HB2	2:N:784:ASN:OD1	2.19	0.42
2:N:632:ILE:HD12	2:N:685:GLY:O	2.19	0.42
2:N:781:PHE:O	2:N:782:LEU:HD23	2.20	0.42
2:N:1013:ASN:OD1	2:N:1015:HIS:HB2	2.19	0.42
2:N:1065:GLN:HE21	2:N:1067:ARG:N	2.17	0.42
2:N:1098:MET:HE3	2:N:1098:MET:H	1.83	0.42
3:O:9:ILE:H	3:O:9:ILE:HG13	1.45	0.42
3:O:189:THR:CG2	3:O:190:ASP:N	2.82	0.42
4:P:67:ARG:O	4:P:71:ARG:HB2	2.19	0.42
6:R:73:ALA:O	6:R:74:ILE:CB	2.67	0.42
1:A:41:MET:CE	1:A:41:MET:N	2.83	0.42
1:A:86:LEU:CG	1:A:238:THR:O	2.66	0.42
1:A:267:LEU:HD21	1:A:304:TYR:CZ	2.54	0.42
1:A:354:ILE:HG23	1:A:488:MET:HG3	1.99	0.42
1:A:538:ARG:NH2	8:H:121:LEU:HD12	2.25	0.42
1:A:710:THR:HG22	1:A:712:ARG:N	2.25	0.42
1:A:1059:LEU:CG	1:A:1060:VAL:N	2.82	0.42
1:A:1222:PHE:CG	1:A:1226:LEU:HD23	2.55	0.42
2:B:317:GLN:O	2:B:318:ASP:HB3	2.19	0.42
2:B:882:THR:HG21	2:B:935:ARG:CA	2.49	0.42
2:B:912:ILE:CG2	2:B:913:GLY:N	2.83	0.42
2:B:984:HIS:HB3	2:B:1022:THR:OG1	2.18	0.42
3:C:16:GLU:C	3:C:17:VAL:HG23	2.45	0.42
3:C:119:ILE:CG1	3:C:120:LYS:N	2.82	0.42
5:E:80:GLU:O	5:E:110:ILE:CG2	2.31	0.42
6:F:73:ALA:O	6:F:74:ILE:CB	2.67	0.42
8:H:42:ILE:CG2	8:H:43:ASN:N	2.81	0.42
10:J:2:ILE:H	10:J:56:ILE:CG2	2.32	0.42
1:M:20:GLY:HA2	1:M:1416:GLY:O	2.20	0.42
1:M:39:GLU:OE1	1:M:39:GLU:N	2.53	0.42
1:M:87:ALA:C	1:M:88:LYS:HG2	2.45	0.42
1:M:459:HIS:CE1	1:M:508:VAL:CG2	3.03	0.42
1:M:606:MET:HG2	1:M:622:THR:HG21	2.02	0.42
1:M:1040:ASN:CG	1:M:1042:ASP:HB3	2.44	0.42
1:M:1063:GLY:O	1:M:1440:GLY:CA	2.68	0.42
1:M:1072:GLN:C	1:M:1074:ILE:N	2.76	0.42
1:M:1171:THR:O	1:M:1171:THR:HG22	2.19	0.42
2:N:22:SER:HA	2:N:811:TYR:CE2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:111:TYR:HE2	2:N:170:CYS:SG	2.42	0.42
2:N:231:ILE:HG21	2:N:374:MET:CE	2.49	0.42
2:N:285:PRO:HD2	2:N:288:GLU:OE1	2.20	0.42
2:N:306:LEU:O	2:N:307:LYS:C	2.62	0.42
2:N:992:VAL:CG2	2:N:993:THR:H	2.27	0.42
2:N:1085:VAL:CG1	2:N:1086:PHE:N	2.82	0.42
2:N:1177:LYS:O	2:N:1179:GLN:N	2.43	0.42
3:O:119:ILE:CG1	3:O:120:LYS:N	2.82	0.42
3:O:175:ALA:CB	10:V:42:ARG:NH2	2.71	0.42
5:Q:160:LYS:HD2	5:Q:194:VAL:HG23	2.01	0.42
6:R:74:ILE:HD12	6:R:143:TYR:O	2.19	0.42
7:S:51:GLY:O	7:S:52:MET:C	2.62	0.42
7:S:132:SER:C	7:S:134:ASP:N	2.75	0.42
7:S:138:THR:CG2	7:S:139:LYS:N	2.45	0.42
10:V:46:ARG:HH11	10:V:46:ARG:CG	2.30	0.42
12:X:54:GLY:O	12:X:55:HIS:C	2.62	0.42
1:A:483:PHE:O	2:B:989:THR:CG2	2.62	0.42
2:B:381:CYS:O	2:B:383:LEU:N	2.52	0.42
2:B:557:GLU:HA	2:B:558:PRO:HD2	1.87	0.42
2:B:586:PRO:HG2	2:B:610:ARG:CZ	2.50	0.42
2:B:774:GLY:C	2:B:776:GLN:N	2.78	0.42
2:B:1068:GLY:O	2:B:1069:PHE:C	2.62	0.42
3:C:16:GLU:O	3:C:17:VAL:CG2	2.67	0.42
3:C:166:GLU:O	11:K:6:ARG:NH1	2.52	0.42
3:C:189:THR:CG2	3:C:190:ASP:N	2.82	0.42
6:F:123:LYS:HB2	6:F:123:LYS:HE3	1.82	0.42
10:J:33:ASP:O	10:J:34:ALA:C	2.63	0.42
1:M:42:ASP:C	1:M:44:SER:N	2.77	0.42
1:M:130:ASP:C	1:M:132:LYS:N	2.77	0.42
1:M:267:LEU:HD21	1:M:304:TYR:CZ	2.54	0.42
1:M:267:LEU:HD23	1:M:267:LEU:HA	1.86	0.42
1:M:319:SER:C	2:N:463:LYS:C	2.86	0.42
1:M:1157:ASP:OD2	1:M:1163:THR:HA	2.18	0.42
1:M:1393:ASN:CA	1:M:1402:ARG:HG2	2.50	0.42
2:N:16:ASP:C	2:N:18:TRP:N	2.76	0.42
2:N:103:GLU:C	2:N:105:ARG:N	2.74	0.42
2:N:394:PHE:CB	2:N:510:THR:HB	2.49	0.42
2:N:774:GLY:C	2:N:776:GLN:N	2.78	0.42
2:N:859:TYR:OH	2:N:941:LEU:CD1	2.64	0.42
2:N:882:THR:HG21	2:N:935:ARG:CA	2.49	0.42
2:N:947:GLY:C	2:N:948:ILE:HG13	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:16:GLU:C	3:O:17:VAL:HG23	2.45	0.42
3:O:38:ALA:C	3:O:164:ALA:HB3	2.45	0.42
11:W:43:ALA:O	11:W:46:LEU:N	2.52	0.42
11:W:48:GLU:C	11:W:50:LEU:H	2.28	0.42
1:A:39:GLU:O	1:A:53:LEU:CB	2.66	0.42
1:A:67:CYS:O	1:A:67:CYS:SG	2.78	0.42
1:A:306:ASP:OD2	1:A:327:ARG:HD3	2.18	0.42
1:A:384:TYR:N	1:A:384:TYR:CD2	2.87	0.42
1:A:459:HIS:CE1	1:A:508:VAL:CG2	3.03	0.42
1:A:601:PRO:C	1:A:603:ASP:N	2.77	0.42
1:A:606:MET:HG2	1:A:622:THR:HG21	2.02	0.42
1:A:630:LEU:CA	1:A:633:THR:CG2	2.97	0.42
1:A:664:SER:OG	1:A:665:ILE:N	2.52	0.42
1:A:710:THR:CG2	9:I:94:ASP:HA	2.49	0.42
1:A:882:GLN:NE2	1:A:961:ASN:HA	2.34	0.42
1:A:883:THR:HA	1:A:954:HIS:O	2.19	0.42
1:A:895:HIS:C	1:A:897:ARG:H	2.27	0.42
2:B:222:PRO:O	2:B:223:SER:HB2	2.20	0.42
2:B:410:PHE:O	2:B:413:LEU:HB2	2.19	0.42
2:B:781:PHE:O	2:B:782:LEU:HD23	2.20	0.42
2:B:806:THR:HB	2:B:809:MET:HG3	2.02	0.42
2:B:843:GLN:O	2:B:846:ILE:N	2.51	0.42
2:B:956:THR:HG22	2:B:957:ASN:N	2.34	0.42
2:B:1071:VAL:O	2:B:1072:MET:HG2	2.19	0.42
3:C:116:SER:HB3	3:C:140:GLN:HA	2.01	0.42
3:C:221:TYR:CD1	3:C:222:LYS:N	2.87	0.42
4:D:52:SER:C	4:D:53:LEU:O	2.62	0.42
5:E:90:LYS:O	5:E:92:MET:N	2.53	0.42
5:E:177:ILE:HG22	5:E:212:ILE:O	2.19	0.42
8:H:42:ILE:HG23	8:H:94:TYR:HE1	1.85	0.42
8:H:112:LYS:HA	8:H:124:LEU:O	2.19	0.42
10:J:35:LEU:CD1	10:J:46:ARG:NH1	2.82	0.42
1:M:667:ILE:HG12	2:N:1030:LEU:HD22	2.02	0.42
1:M:1059:LEU:CG	1:M:1060:VAL:N	2.82	0.42
1:M:1199:LEU:HD11	1:M:1240:ILE:CD1	2.50	0.42
1:M:1353:LYS:O	1:M:1357:ASN:ND2	2.51	0.42
2:N:222:PRO:O	2:N:223:SER:HB2	2.20	0.42
2:N:317:GLN:O	2:N:318:ASP:HB3	2.19	0.42
2:N:401:LEU:HD13	2:N:538:ILE:CD1	2.49	0.42
2:N:898:LEU:HD13	2:N:952:VAL:CG1	2.48	0.42
2:N:945:GLU:O	2:N:946:ASN:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1031:LEU:HD11	2:N:1042:GLY:CA	2.50	0.42
2:N:1159:ARG:HD3	2:N:1193:GLN:NE2	2.35	0.42
2:N:1215:ARG:CZ	4:P:15:ALA:HB1	2.49	0.42
3:O:96:VAL:HG12	3:O:98:LEU:HD21	2.00	0.42
3:O:166:GLU:O	11:W:6:ARG:NH1	2.53	0.42
3:O:248:ILE:HG23	11:W:98:LEU:HD22	2.00	0.42
7:S:129:ALA:HB2	7:S:138:THR:OG1	2.19	0.42
8:T:58:THR:CG2	8:T:59:LEU:N	2.82	0.42
1:A:37:TYR:HB2	1:A:52:GLY:CA	2.43	0.42
1:A:90:VAL:HG12	1:A:91:PHE:H	1.85	0.42
1:A:546:GLN:C	1:A:548:MET:N	2.77	0.42
1:A:775:ARG:O	1:A:776:ILE:C	2.63	0.42
1:A:897:ARG:O	1:A:1031:ARG:HB3	2.20	0.42
1:A:1044:PHE:CD2	1:A:1048:LEU:HD11	2.54	0.42
1:A:1199:LEU:HD11	1:A:1240:ILE:CD1	2.50	0.42
2:B:947:GLY:C	2:B:948:ILE:HG13	2.44	0.42
2:B:1080:LYS:HG3	3:C:180:TYR:CE2	2.55	0.42
3:C:146:LYS:HB2	10:J:56:ILE:HD11	2.02	0.42
7:G:40:GLY:HA2	7:G:157:ILE:HD11	2.02	0.42
8:H:117:PHE:O	8:H:119:GLY:N	2.53	0.42
1:M:120:PRO:C	1:M:122:MET:N	2.76	0.42
1:M:203:LEU:CG	1:M:207:GLU:N	2.82	0.42
1:M:601:PRO:C	1:M:603:ASP:N	2.77	0.42
1:M:916:TYR:CG	1:M:920:ILE:HD12	2.54	0.42
1:M:1076:GLU:C	1:M:1078:ALA:N	2.76	0.42
1:M:1300:GLU:HG3	1:M:1300:GLU:H	1.45	0.42
1:M:1389:ARG:N	1:M:1405:PHE:CE2	2.88	0.42
2:N:363:PHE:HD2	2:N:366:ARG:HD2	1.84	0.42
2:N:596:LEU:HD12	2:N:602:ILE:CG2	2.48	0.42
2:N:1068:GLY:O	2:N:1069:PHE:C	2.62	0.42
2:N:1217:TYR:OH	4:P:13:ARG:C	2.63	0.42
3:O:252:GLN:HG3	11:W:95:ILE:HG23	2.02	0.42
5:Q:6:ARG:C	5:Q:8:ILE:H	2.26	0.42
5:Q:153:ILE:HG22	5:Q:154:ARG:O	2.20	0.42
5:Q:163:LEU:HD13	5:Q:210:TYR:CE2	2.54	0.42
8:T:5:LEU:N	8:T:60:ALA:HB2	2.35	0.42
12:X:50:CYS:C	12:X:52:GLU:H	2.27	0.42
1:A:667:ILE:CD1	1:A:668:GLY:N	2.82	0.42
1:A:799:GLY:CA	1:A:816:PHE:HD1	2.10	0.42
1:A:1166:GLU:C	1:A:1168:ASP:N	2.78	0.42
2:B:180:LEU:C	2:B:182:LYS:N	2.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:701:ALA:HB2	2:B:738:PHE:HD2	1.77	0.42
4:D:34:PHE:CE2	7:G:80:LYS:NZ	2.78	0.42
8:H:5:LEU:HD22	8:H:132:ALA:O	2.19	0.42
1:M:384:TYR:N	1:M:384:TYR:CD2	2.87	0.42
1:M:1449:ASP:OD1	1:M:1452:LEU:CG	2.67	0.42
5:Q:136:GLU:O	5:Q:138:ASP:N	2.53	0.42
6:R:123:LYS:HE3	6:R:123:LYS:HB2	1.82	0.42
8:T:117:PHE:O	8:T:119:GLY:N	2.53	0.42
10:V:33:ASP:O	10:V:34:ALA:C	2.62	0.42
1:A:39:GLU:OE1	1:A:39:GLU:N	2.53	0.42
1:A:111:GLY:O	1:A:215:ILE:HA	2.20	0.42
1:A:323:VAL:O	1:A:323:VAL:HG12	2.20	0.42
1:A:1043:ALA:O	1:A:1046:TRP:HB3	2.20	0.42
4:D:52:SER:O	4:D:53:LEU:O	2.38	0.42
5:E:6:ARG:C	5:E:8:ILE:H	2.27	0.42
6:F:99:LEU:C	6:F:99:LEU:CD1	2.92	0.42
10:J:12:LYS:O	10:J:14:VAL:HG23	2.20	0.42
1:M:90:VAL:O	1:M:236:ILE:HG23	2.19	0.42
1:M:1044:PHE:CD2	1:M:1048:LEU:HD11	2.54	0.42
1:M:1222:PHE:CD1	1:M:1226:LEU:HD23	2.54	0.42
2:N:78:ARG:CG	2:N:120:GLU:HB2	2.50	0.42
2:N:180:LEU:O	2:N:181:TYR:C	2.62	0.42
2:N:316:ILE:HG12	2:N:321:VAL:HG11	2.01	0.42
2:N:442:LYS:C	2:N:444:THR:H	2.28	0.42
2:N:1208:MET:C	2:N:1210:MET:H	2.28	0.42
3:O:221:TYR:CD1	3:O:222:LYS:N	2.87	0.42
5:Q:90:LYS:O	5:Q:92:MET:N	2.53	0.42
8:T:42:ILE:HG23	8:T:94:TYR:HE1	1.85	0.42
1:A:603:ASP:O	1:A:617:VAL:HG23	2.20	0.41
1:A:667:ILE:HG12	2:B:1030:LEU:HD22	2.02	0.41
1:A:838:ILE:HD11	1:A:1104:LYS:HG3	2.02	0.41
1:A:1352:TYR:CD2	1:A:1353:LYS:N	2.88	0.41
2:B:14:THR:C	2:B:16:ASP:H	2.27	0.41
2:B:111:TYR:HE2	2:B:170:CYS:SG	2.42	0.41
2:B:831:SER:HB2	2:B:833:TYR:CD1	2.55	0.41
2:B:973:VAL:HG12	2:B:974:PRO:O	2.19	0.41
2:B:1106:ARG:CG	2:B:1107:ALA:N	2.82	0.41
2:B:1159:ARG:HD3	2:B:1193:GLN:NE2	2.35	0.41
2:B:1166:CYS:O	2:B:1166:CYS:SG	2.78	0.41
2:B:1208:MET:C	2:B:1210:MET:H	2.28	0.41
4:D:35:ALA:O	4:D:37:LYS:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:107:VAL:HG12	6:F:108:LEU:N	2.35	0.41
7:G:12:THR:HG22	7:G:67:SER:HB3	2.01	0.41
11:K:43:ALA:O	11:K:46:LEU:N	2.52	0.41
1:M:344:LYS:HE3	2:N:1151:LEU:CB	2.50	0.41
1:M:351:ARG:HB3	2:N:1128:LEU:HD21	2.02	0.41
1:M:451:LEU:HB3	1:M:839:GLN:NE2	2.35	0.41
1:M:667:ILE:CD1	1:M:668:GLY:N	2.82	0.41
1:M:1074:ILE:HD11	1:M:1371:MET:CA	2.45	0.41
1:M:1282:ILE:HD11	1:M:1319:VAL:CG2	2.50	0.41
2:N:12:ILE:HD11	2:N:648:THR:N	2.34	0.41
2:N:630:LEU:CD2	2:N:742:GLU:HA	2.50	0.41
2:N:806:THR:HB	2:N:809:MET:HG3	2.02	0.41
2:N:830:TYR:HB3	2:N:831:SER:H	1.69	0.41
2:N:1004:GLU:CB	2:N:1006:ILE:HG12	2.43	0.41
2:N:1069:PHE:O	3:O:201:TRP:HH2	2.03	0.41
2:N:1080:LYS:HG3	3:O:180:TYR:CE2	2.55	0.41
5:Q:10:ARG:C	5:Q:12:TRP:N	2.77	0.41
5:Q:110:ILE:HG23	5:Q:110:ILE:O	2.19	0.41
5:Q:146:HIS:HD2	5:Q:148:LEU:H	1.68	0.41
6:R:99:LEU:HD21	7:S:63:PRO:O	2.20	0.41
6:R:111:ILE:C	6:R:113:GLY:N	2.75	0.41
7:S:13:LEU:CD1	7:S:22:MET:HE2	2.51	0.41
9:U:58:ILE:HG23	9:U:58:ILE:O	2.20	0.41
10:V:55:LEU:C	10:V:57:GLU:N	2.78	0.41
1:A:87:ALA:C	1:A:88:LYS:HG2	2.45	0.41
1:A:135:PHE:HB2	1:A:224:GLY:N	2.34	0.41
1:A:475:VAL:O	1:A:475:VAL:HG13	2.20	0.41
1:A:803:ASN:ND2	1:A:813:GLU:OE2	2.53	0.41
1:A:1453:LEU:HD21	7:G:18:PHE:CB	2.49	0.41
2:B:186:CYS:HB2	2:B:784:ASN:OD1	2.19	0.41
2:B:295:TYR:N	2:B:295:TYR:CD2	2.87	0.41
2:B:300:TRP:CH2	9:I:45:ARG:HD3	2.56	0.41
2:B:401:LEU:HD13	2:B:538:ILE:CD1	2.49	0.41
2:B:596:LEU:HD12	2:B:602:ILE:CG2	2.49	0.41
2:B:632:ILE:HD12	2:B:685:GLY:O	2.19	0.41
2:B:797:TYR:CE1	2:B:854:LEU:HD23	2.53	0.41
2:B:835:GLN:HE21	2:B:835:GLN:HB2	1.62	0.41
2:B:866:PHE:C	2:B:868:ILE:H	2.28	0.41
2:B:1069:PHE:O	3:C:201:TRP:HH2	2.04	0.41
4:D:26:THR:C	4:D:28:LEU:H	2.25	0.41
7:G:14:HIS:ND1	7:G:15:PRO:CD	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:81:PRO:C	8:H:83:PRO:N	2.77	0.41
11:K:48:GLU:C	11:K:50:LEU:H	2.28	0.41
1:M:496:GLU:CB	6:R:99:LEU:CB	2.88	0.41
1:M:603:ASP:O	1:M:617:VAL:HG23	2.20	0.41
1:M:781:ALA:O	1:M:783:ARG:HG2	2.19	0.41
1:M:1222:PHE:CG	1:M:1226:LEU:HD23	2.55	0.41
2:N:411:ARG:O	2:N:412:ILE:C	2.63	0.41
2:N:702:MET:HA	2:N:702:MET:CE	2.45	0.41
2:N:912:ILE:CG2	2:N:913:GLY:N	2.83	0.41
1:A:467:SER:O	2:B:1099:VAL:HG11	2.20	0.41
1:A:1370:HIS:O	1:A:1371:MET:C	2.63	0.41
1:A:1431:VAL:HG13	2:B:1151:LEU:CD2	2.50	0.41
2:B:14:THR:C	2:B:16:ASP:N	2.77	0.41
2:B:285:PRO:HD2	2:B:288:GLU:OE1	2.19	0.41
2:B:316:ILE:HG12	2:B:321:VAL:HG11	2.01	0.41
2:B:883:LEU:O	2:B:884:ARG:C	2.63	0.41
2:B:1104:HIS:HB2	2:B:1122:ARG:HD2	2.02	0.41
3:C:68:LEU:N	3:C:68:LEU:HD12	2.34	0.41
5:E:136:GLU:O	5:E:138:ASP:N	2.53	0.41
5:E:142:ASN:O	5:E:145:HIS:HB2	2.20	0.41
6:F:74:ILE:HD12	6:F:143:TYR:O	2.19	0.41
7:G:13:LEU:CD1	7:G:22:MET:HE2	2.51	0.41
8:H:122:MET:HG2	8:H:123:CYS:N	2.33	0.41
9:I:58:ILE:HG23	9:I:58:ILE:O	2.20	0.41
10:J:35:LEU:HD22	10:J:40:LEU:HD12	2.02	0.41
11:K:49:GLU:OE1	11:K:97:LYS:HE3	2.20	0.41
1:M:64:ASN:C	1:M:66:LYS:N	2.79	0.41
1:M:75:ALA:O	1:M:76:GLU:CB	2.67	0.41
1:M:91:PHE:HB2	1:M:298:GLN:HE22	1.85	0.41
1:M:471:LEU:HD12	1:M:471:LEU:O	2.19	0.41
1:M:568:LYS:HD3	8:T:94:TYR:HA	2.02	0.41
1:M:853:TYR:OH	1:M:1444:PHE:CD2	2.70	0.41
1:M:897:ARG:O	1:M:1031:ARG:HB3	2.20	0.41
2:N:180:LEU:C	2:N:182:LYS:N	2.78	0.41
2:N:758:PHE:HB2	2:N:1024:ALA:CB	2.40	0.41
2:N:763:GLN:HG2	2:N:765:PRO:HD2	2.03	0.41
2:N:794:ASN:C	2:N:795:ILE:HD12	2.45	0.41
2:N:866:PHE:C	2:N:868:ILE:H	2.28	0.41
2:N:891:GLU:C	2:N:893:LEU:H	2.26	0.41
2:N:1136:ASP:O	2:N:1137:CYS:C	2.63	0.41
4:P:35:ALA:O	4:P:37:LYS:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:142:ASN:O	5:Q:145:HIS:HB2	2.19	0.41
6:R:81:THR:HB	6:R:136:ARG:NH1	2.35	0.41
7:S:13:LEU:CD2	7:S:17:TYR:HB2	2.45	0.41
1:A:640:PRO:CG	1:A:641:LYS:N	2.84	0.41
2:B:24:PHE:CD1	2:B:24:PHE:C	2.97	0.41
2:B:229:ALA:O	2:B:247:ILE:CG2	2.69	0.41
2:B:242:ILE:O	2:B:242:ILE:HG22	2.21	0.41
2:B:514:LEU:HD13	2:B:626:VAL:HB	2.02	0.41
2:B:702:MET:HA	2:B:702:MET:CE	2.45	0.41
2:B:845:SER:HB3	10:J:8:PHE:C	2.46	0.41
2:B:1136:ASP:O	2:B:1137:CYS:C	2.63	0.41
2:B:1197:PRO:HG2	2:B:1200:ALA:HB3	2.02	0.41
2:B:1198:TYR:C	2:B:1198:TYR:HD2	2.27	0.41
3:C:80:LYS:O	3:C:94:CYS:HB2	2.21	0.41
5:E:116:THR:HA	5:E:117:PRO:HD3	1.94	0.41
7:G:154:VAL:HB	7:G:155:ASN:H	1.56	0.41
8:H:101:TYR:CD2	8:H:101:TYR:N	2.88	0.41
9:I:7:CYS:C	9:I:8:LEU:O	2.62	0.41
1:M:90:VAL:HG12	1:M:91:PHE:H	1.85	0.41
1:M:325:ALA:O	1:M:326:ILE:C	2.64	0.41
1:M:408:ARG:HG2	1:M:431:TRP:CZ2	2.56	0.41
1:M:761:GLN:HG2	1:M:766:VAL:O	2.19	0.41
1:M:1264:LYS:C	1:M:1267:GLU:HB3	2.46	0.41
1:M:1352:TYR:CD2	1:M:1353:LYS:N	2.88	0.41
2:N:396:LYS:HG3	2:N:693:GLU:OE1	2.20	0.41
2:N:590:VAL:C	2:N:592:THR:H	2.27	0.41
7:S:22:MET:C	7:S:24:GLN:N	2.76	0.41
7:S:43:GLY:HA3	7:S:80:LYS:HB3	2.02	0.41
10:V:25:LEU:HD23	10:V:30:GLN:O	2.20	0.41
1:A:119:ASN:O	1:A:122:MET:HB3	2.21	0.41
1:A:338:ARG:NH2	1:A:840:ARG:NH1	2.67	0.41
1:A:348:PHE:CE2	1:A:494:GLN:OE1	2.74	0.41
1:A:589:LEU:O	1:A:607:LEU:HD12	2.20	0.41
1:A:771:VAL:O	1:A:772:GLU:C	2.63	0.41
1:A:772:GLU:N	1:A:823:GLU:OE2	2.42	0.41
1:A:783:ARG:NH2	2:B:696:GLU:O	2.47	0.41
1:A:1217:LYS:O	1:A:1218:ILE:C	2.63	0.41
2:B:159:GLY:H	2:B:443:SER:CB	2.33	0.41
2:B:370:PHE:O	2:B:372:GLY:N	2.53	0.41
2:B:1031:LEU:HD11	2:B:1042:GLY:CA	2.50	0.41
4:D:117:ASP:C	4:D:119:GLU:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:100:GLN:O	6:F:105:ALA:HB2	2.21	0.41
10:J:25:LEU:HD23	10:J:30:GLN:O	2.21	0.41
11:K:48:GLU:O	11:K:50:LEU:N	2.54	0.41
11:K:76:GLN:HE21	11:K:76:GLN:HB3	1.53	0.41
1:M:54:ASN:HB3	1:M:248:ARG:HH12	1.86	0.41
1:M:111:GLY:O	1:M:215:ILE:HA	2.20	0.41
1:M:467:SER:C	1:M:468:THR:HG23	2.46	0.41
1:M:467:SER:O	2:N:1099:VAL:HG11	2.20	0.41
1:M:706:LYS:O	1:M:707:PRO:C	2.63	0.41
1:M:1217:LYS:O	1:M:1218:ILE:C	2.63	0.41
1:M:1265:ARG:O	1:M:1269:HIS:CG	2.74	0.41
2:N:975:GLN:HE21	2:N:975:GLN:HB3	1.59	0.41
3:O:146:LYS:HB2	10:V:56:ILE:HD11	2.02	0.41
4:P:41:HIS:HB2	7:S:73:LYS:HZ1	1.81	0.41
5:Q:84:GLU:OE2	5:Q:91:THR:HG21	2.19	0.41
5:Q:134:PHE:CB	5:Q:139:LEU:HD11	2.42	0.41
6:R:99:LEU:C	6:R:99:LEU:CD1	2.92	0.41
7:S:40:GLY:HA2	7:S:157:ILE:HD11	2.02	0.41
7:S:129:ALA:HB2	7:S:138:THR:HG1	1.86	0.41
7:S:132:SER:C	7:S:134:ASP:H	2.29	0.41
7:S:138:THR:O	7:S:139:LYS:C	2.62	0.41
10:V:12:LYS:O	10:V:14:VAL:HG23	2.20	0.41
1:A:49:ARG:O	1:A:50:GLU:C	2.63	0.41
1:A:284:GLY:O	1:A:286:PRO:CD	2.65	0.41
1:A:408:ARG:HG2	1:A:431:TRP:CZ2	2.56	0.41
1:A:1122:LEU:N	1:A:1122:LEU:HD12	2.35	0.41
2:B:78:ARG:CG	2:B:120:GLU:HB2	2.50	0.41
2:B:834:ASN:CA	2:B:838:SER:O	2.67	0.41
2:B:843:GLN:O	2:B:846:ILE:HB	2.19	0.41
2:B:956:THR:HG22	2:B:957:ASN:H	1.86	0.41
4:D:125:ASP:C	4:D:127:LEU:N	2.78	0.41
4:D:148:LEU:HD23	4:D:148:LEU:HA	1.87	0.41
6:F:73:ALA:O	6:F:74:ILE:HG13	2.21	0.41
9:I:25:LEU:HB3	9:I:38:ALA:HB2	2.02	0.41
11:K:83:PRO:O	11:K:84:LYS:C	2.63	0.41
1:M:67:CYS:O	1:M:67:CYS:SG	2.78	0.41
1:M:69:THR:O	1:M:69:THR:HG22	2.21	0.41
1:M:771:VAL:HG12	1:M:772:GLU:N	2.34	0.41
1:M:916:TYR:O	1:M:920:ILE:HB	2.20	0.41
1:M:1143:THR:OG1	1:M:1207:LYS:HD3	2.20	0.41
1:M:1374:LEU:O	1:M:1375:VAL:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:21:ILE:O	2:N:22:SER:C	2.64	0.41
2:N:166:ARG:NH1	2:N:166:ARG:CG	2.84	0.41
2:N:514:LEU:HD13	2:N:626:VAL:HB	2.02	0.41
2:N:586:PRO:O	2:N:589:LEU:N	2.53	0.41
2:N:1104:HIS:HB2	2:N:1122:ARG:HD2	2.02	0.41
3:O:7:VAL:HG12	3:O:8:ASN:N	2.36	0.41
4:P:34:PHE:CE2	7:S:80:LYS:NZ	2.78	0.41
5:Q:11:LEU:HD12	5:Q:11:LEU:O	2.21	0.41
5:Q:156:SER:O	5:Q:158:GLY:N	2.54	0.41
10:V:35:LEU:HD11	10:V:50:LEU:HB2	2.02	0.41
11:W:85:GLN:O	11:W:88:GLU:HB2	2.21	0.41
1:A:54:ASN:HB3	1:A:248:ARG:HH12	1.86	0.41
1:A:1072:GLN:C	1:A:1074:ILE:N	2.76	0.41
1:A:1265:ARG:O	1:A:1269:HIS:CG	2.74	0.41
1:A:1372:ALA:O	1:A:1373:LEU:C	2.64	0.41
2:B:87:PRO:HG3	2:B:163:ILE:HD12	2.02	0.41
2:B:296:ASP:O	2:B:298:ASN:N	2.54	0.41
2:B:770:GLN:HG2	2:B:983:ARG:C	2.45	0.41
2:B:871:VAL:CG1	2:B:872:GLU:N	2.83	0.41
2:B:906:SER:O	2:B:907:GLY:C	2.64	0.41
2:B:954:LEU:O	12:L:57:VAL:O	2.37	0.41
2:B:1066:SER:O	2:B:1067:ARG:HD3	2.20	0.41
2:B:1202:LEU:O	2:B:1203:LEU:C	2.63	0.41
3:C:4:GLU:CB	3:C:5:PRO:HD3	2.44	0.41
8:H:5:LEU:N	8:H:60:ALA:HB2	2.35	0.41
9:I:90:GLN:HE21	9:I:92:ARG:HD3	1.85	0.41
1:M:23:SER:O	1:M:24:PRO:C	2.62	0.41
1:M:34:LYS:N	1:M:34:LYS:CD	2.83	0.41
1:M:640:PRO:CG	1:M:641:LYS:N	2.84	0.41
1:M:688:LYS:O	1:M:691:VAL:HB	2.21	0.41
1:M:775:ARG:O	1:M:776:ILE:C	2.63	0.41
1:M:838:ILE:HD11	1:M:1104:LYS:HG3	2.02	0.41
1:M:957:PRO:O	1:M:957:PRO:HG2	2.21	0.41
2:N:300:TRP:CH2	9:U:45:ARG:HD3	2.56	0.41
2:N:370:PHE:O	2:N:372:GLY:N	2.54	0.41
2:N:466:MET:C	2:N:468:SER:N	2.78	0.41
2:N:475:VAL:O	2:N:476:LEU:C	2.64	0.41
2:N:863:GLU:OE1	2:N:962:LYS:HB2	2.21	0.41
2:N:880:ALA:CB	2:N:934:LYS:HD2	2.51	0.41
2:N:1100:ASP:OD2	11:W:1:MET:HB3	2.21	0.41
4:P:141:GLU:O	4:P:142:ILE:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:100:GLN:O	6:R:105:ALA:HB2	2.21	0.41
6:R:125:LEU:HA	6:R:130:ILE:HD11	2.02	0.41
8:T:62:SER:O	8:T:63:LEU:O	2.39	0.41
8:T:103:PHE:CE2	8:T:135:LYS:HG2	2.56	0.41
9:U:7:CYS:C	9:U:8:LEU:O	2.62	0.41
1:A:344:LYS:HE3	2:B:1151:LEU:HB3	2.02	0.41
1:A:384:TYR:HB3	6:F:115:THR:CG2	2.48	0.41
1:A:568:LYS:HD3	8:H:94:TYR:HA	2.02	0.41
1:A:1282:ILE:HD11	1:A:1319:VAL:CG2	2.50	0.41
5:E:11:LEU:HD12	5:E:11:LEU:O	2.21	0.41
5:E:181:ASP:HB3	5:E:184:ALA:HB2	2.03	0.41
7:G:129:ALA:HB2	7:G:138:THR:HG1	1.84	0.41
10:J:18:TRP:HZ3	10:J:49:VAL:HG13	1.85	0.41
12:L:50:CYS:O	12:L:52:GLU:N	2.42	0.41
1:M:119:ASN:O	1:M:122:MET:HB3	2.21	0.41
1:M:284:GLY:O	1:M:286:PRO:CD	2.65	0.41
1:M:322:PRO:O	1:M:323:VAL:CB	2.62	0.41
1:M:589:LEU:O	1:M:607:LEU:HD12	2.20	0.41
1:M:669:ASP:OD1	1:M:742:ASN:ND2	2.54	0.41
1:M:868:LEU:O	1:M:869:TYR:C	2.63	0.41
1:M:1033:ILE:CG1	1:M:1034:LEU:HG	2.51	0.41
2:N:356:HIS:C	2:N:358:THR:N	2.78	0.41
2:N:393:HIS:NE2	2:N:696:GLU:CG	2.81	0.41
2:N:1106:ARG:CG	2:N:1107:ALA:N	2.83	0.41
2:N:1117:GLN:CG	2:N:1156:ASP:CG	2.94	0.41
8:T:62:SER:OG	8:T:63:LEU:N	2.53	0.41
10:V:1:MET:H1	10:V:56:ILE:N	2.07	0.41
1:A:263:LEU:HD22	1:A:304:TYR:CE1	2.56	0.41
1:A:325:ALA:O	1:A:326:ILE:C	2.64	0.41
1:A:600:SER:HA	1:A:601:PRO:HD2	1.91	0.41
1:A:669:ASP:OD1	1:A:742:ASN:ND2	2.54	0.41
1:A:706:LYS:O	1:A:707:PRO:C	2.63	0.41
1:A:868:LEU:O	1:A:869:TYR:C	2.63	0.41
1:A:916:TYR:O	1:A:920:ILE:HB	2.20	0.41
1:A:940:ASP:O	1:A:941:ARG:C	2.64	0.41
1:A:1107:LEU:HB3	1:A:1387:ILE:HG21	2.00	0.41
1:A:1166:GLU:CG	1:A:1167:GLU:H	2.34	0.41
1:A:1215:ALA:HA	1:A:1218:ILE:CD1	2.51	0.41
1:A:1264:LYS:C	1:A:1267:GLU:HB3	2.46	0.41
2:B:103:GLU:C	2:B:105:ARG:N	2.74	0.41
2:B:306:LEU:O	2:B:307:LYS:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:356:HIS:C	2:B:358:THR:N	2.78	0.41
2:B:409:LEU:HD23	2:B:409:LEU:C	2.44	0.41
2:B:463:LYS:HB3	2:B:464:LYS:H	1.77	0.41
2:B:466:MET:C	2:B:468:SER:N	2.78	0.41
2:B:975:GLN:HE21	2:B:975:GLN:HB3	1.59	0.41
3:C:7:VAL:HG12	3:C:8:ASN:N	2.36	0.41
5:E:153:ILE:HG22	5:E:154:ARG:O	2.20	0.41
7:G:43:GLY:HA3	7:G:80:LYS:HB3	2.02	0.41
7:G:132:SER:C	7:G:134:ASP:H	2.29	0.41
8:H:62:SER:O	8:H:63:LEU:O	2.39	0.41
10:J:35:LEU:HD11	10:J:50:LEU:HB2	2.02	0.41
1:M:23:SER:HA	1:M:234:TRP:CD1	2.56	0.41
1:M:263:LEU:HD22	1:M:304:TYR:CE1	2.56	0.41
1:M:344:LYS:HE3	2:N:1151:LEU:HB3	2.02	0.41
1:M:351:ARG:HA	1:M:488:MET:O	2.21	0.41
1:M:366:GLY:HA2	1:M:462:LYS:O	2.21	0.41
1:M:475:VAL:O	1:M:475:VAL:HG13	2.20	0.41
1:M:568:LYS:NZ	8:T:94:TYR:CE1	2.88	0.41
1:M:589:LEU:O	1:M:607:LEU:HA	2.21	0.41
1:M:811:PRO:HG2	2:N:702:MET:HG2	2.02	0.41
1:M:882:GLN:NE2	1:M:960:VAL:O	2.54	0.41
1:M:1166:GLU:C	1:M:1168:ASP:N	2.78	0.41
1:M:1166:GLU:CG	1:M:1167:GLU:H	2.34	0.41
1:M:1348:ARG:HG3	1:M:1375:VAL:HG12	2.03	0.41
1:M:1370:HIS:O	1:M:1371:MET:C	2.63	0.41
1:M:1372:ALA:O	1:M:1373:LEU:C	2.64	0.41
1:M:1391:GLY:O	1:M:1392:ILE:C	2.63	0.41
1:M:1441:THR:HB	2:N:1144:ALA:HB2	2.02	0.41
2:N:177:GLU:HG2	10:V:61:ARG:HH22	1.85	0.41
2:N:288:GLU:HA	2:N:291:GLN:CG	2.51	0.41
2:N:387:ASP:OD1	9:U:91:ARG:HD2	2.20	0.41
2:N:395:GLY:C	2:N:693:GLU:OE1	2.63	0.41
2:N:466:MET:O	2:N:468:SER:N	2.40	0.41
2:N:608:ILE:O	2:N:694:GLU:HG3	2.21	0.41
2:N:614:GLU:O	2:N:615:ARG:HB2	2.21	0.41
2:N:700:ILE:HG21	2:N:742:GLU:OE1	2.21	0.41
2:N:845:SER:HB3	10:V:8:PHE:C	2.46	0.41
2:N:883:LEU:O	2:N:884:ARG:C	2.63	0.41
2:N:944:THR:HG21	2:N:1122:ARG:CZ	2.51	0.41
2:N:1066:SER:O	2:N:1067:ARG:HD3	2.20	0.41
2:N:1166:CYS:O	2:N:1166:CYS:SG	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1202:LEU:O	2:N:1203:LEU:C	2.63	0.41
3:O:80:LYS:O	3:O:94:CYS:HB2	2.21	0.41
3:O:186:LEU:N	3:O:186:LEU:CD1	2.84	0.41
4:P:117:ASP:C	4:P:119:GLU:N	2.79	0.41
5:Q:185:ARG:O	5:Q:188:GLY:N	2.44	0.41
6:R:99:LEU:HD11	7:S:65:SER:O	2.21	0.41
7:S:160:ILE:CG2	7:S:161:GLY:N	2.81	0.41
8:T:101:TYR:CD2	8:T:101:TYR:N	2.88	0.41
10:V:18:TRP:HZ3	10:V:49:VAL:HG13	1.85	0.41
11:W:49:GLU:OE1	11:W:97:LYS:HE3	2.20	0.41
11:W:83:PRO:O	11:W:84:LYS:C	2.63	0.41
11:W:101:LEU:O	11:W:102:ASP:C	2.64	0.41
1:A:344:LYS:HE3	2:B:1151:LEU:CB	2.50	0.41
1:A:351:ARG:HB3	2:B:1128:LEU:HD21	2.02	0.41
1:A:609:VAL:C	1:A:611:GLY:N	2.79	0.41
1:A:1335:PHE:HD2	1:A:1335:PHE:H	1.68	0.41
1:A:1335:PHE:CD2	1:A:1336:VAL:N	2.89	0.41
2:B:324:ASP:O	2:B:326:ILE:HB	2.21	0.41
2:B:479:TYR:CZ	2:B:1096:ARG:NH2	2.85	0.41
2:B:608:ILE:O	2:B:694:GLU:HG3	2.21	0.41
2:B:825:VAL:O	2:B:1087:PHE:HD2	2.04	0.41
2:B:872:GLU:CD	2:B:914:LYS:HE3	2.46	0.41
2:B:878:THR:O	2:B:879:ARG:O	2.39	0.41
2:B:1023:VAL:O	2:B:1024:ALA:C	2.63	0.41
3:C:38:ALA:C	3:C:164:ALA:HB3	2.45	0.41
4:D:179:ASN:HA	4:D:182:GLU:OE2	2.21	0.41
5:E:10:ARG:C	5:E:12:TRP:N	2.77	0.41
9:I:55:THR:O	9:I:55:THR:HG22	2.21	0.41
1:M:37:TYR:HB2	1:M:52:GLY:CA	2.43	0.41
1:M:346:VAL:HG22	1:M:491:HIS:HE1	1.86	0.41
1:M:630:LEU:CA	1:M:633:THR:CG2	2.97	0.41
1:M:864:ILE:CG2	5:Q:175:PRO:HD3	2.34	0.41
1:M:890:SER:HA	1:M:1300:GLU:N	2.36	0.41
1:M:1120:VAL:O	1:M:1120:VAL:HG23	2.21	0.41
1:M:1389:ARG:CA	1:M:1405:PHE:HE2	2.28	0.41
1:M:1450:GLU:HG3	7:S:22:MET:SD	2.61	0.41
2:N:111:TYR:CE2	2:N:170:CYS:SG	3.08	0.41
2:N:586:PRO:HG2	2:N:610:ARG:CZ	2.50	0.41
2:N:842:ASN:OD1	2:N:844:SER:HB2	2.21	0.41
2:N:906:SER:O	2:N:907:GLY:C	2.64	0.41
2:N:1167:GLY:O	2:N:1215:ARG:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:57:LEU:N	3:O:57:LEU:HD22	2.35	0.41
4:P:57:ARG:HA	4:P:109:LEU:HD13	2.02	0.41
6:R:154:ASP:HB3	6:R:155:ASN:H	1.73	0.41
8:T:40:LEU:HD12	8:T:41:ASP:H	1.86	0.41
1:A:858:ARG:CZ	6:F:139:PRO:CG	2.99	0.40
1:A:882:GLN:NE2	1:A:960:VAL:O	2.54	0.40
1:A:890:SER:HA	1:A:1300:GLU:N	2.36	0.40
1:A:957:PRO:O	1:A:957:PRO:HG2	2.21	0.40
1:A:1033:ILE:CG1	1:A:1034:LEU:HG	2.51	0.40
1:A:1143:THR:OG1	1:A:1207:LYS:HD3	2.20	0.40
1:A:1154:ILE:O	9:I:43:VAL:HB	2.21	0.40
1:A:1159:ASP:HA	1:A:1160:PRO:HD2	1.98	0.40
1:A:1263:LEU:O	1:A:1263:LEU:CG	2.68	0.40
1:A:1391:GLY:O	1:A:1392:ILE:C	2.63	0.40
2:B:177:GLU:HG2	10:J:61:ARG:HH22	1.85	0.40
2:B:221:ALA:N	2:B:222:PRO:CD	2.84	0.40
2:B:575:VAL:CG2	2:B:619:ILE:HG21	2.45	0.40
2:B:584:ARG:O	2:B:586:PRO:HD3	2.21	0.40
2:B:598:ARG:NH1	2:B:632:ILE:HG21	2.36	0.40
2:B:609:ILE:N	2:B:609:ILE:CD1	2.77	0.40
2:B:880:ALA:CB	2:B:934:LYS:HD2	2.51	0.40
2:B:899:ILE:CD1	2:B:911:ILE:HG23	2.40	0.40
2:B:1023:VAL:C	2:B:1025:HIS:N	2.77	0.40
2:B:1096:ARG:CG	2:B:1096:ARG:HH11	2.35	0.40
3:C:57:LEU:HD22	3:C:57:LEU:N	2.36	0.40
4:D:31:GLY:H	7:G:82:PHE:HE2	1.69	0.40
4:D:114:ARG:C	4:D:115:PHE:CG	3.00	0.40
5:E:62:ASN:HB3	5:E:63:PRO:CD	2.51	0.40
7:G:129:ALA:HB2	7:G:138:THR:OG1	2.19	0.40
8:H:13:GLN:CG	8:H:27:ILE:O	2.69	0.40
9:I:90:GLN:HE21	9:I:92:ARG:CD	2.34	0.40
1:M:48:PRO:O	1:M:49:ARG:CG	2.70	0.40
1:M:53:LEU:O	1:M:54:ASN:O	2.39	0.40
1:M:348:PHE:CE2	1:M:494:GLN:OE1	2.74	0.40
1:M:598:LEU:HD12	1:M:598:LEU:H	1.85	0.40
1:M:1238:LEU:C	1:M:1239:ILE:HG13	2.46	0.40
1:M:1431:VAL:HG13	2:N:1151:LEU:CD2	2.50	0.40
1:M:1450:GLU:OE1	1:M:1450:GLU:C	2.64	0.40
2:N:159:GLY:H	2:N:443:SER:CB	2.33	0.40
2:N:228:VAL:HG12	2:N:229:ALA:N	2.37	0.40
2:N:229:ALA:O	2:N:247:ILE:CG2	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:479:TYR:CZ	2:N:1096:ARG:NH2	2.85	0.40
2:N:598:ARG:NH1	2:N:632:ILE:HG21	2.36	0.40
2:N:999:MET:HG3	2:N:1000:PRO:CD	2.30	0.40
2:N:1000:PRO:O	2:N:1007:VAL:HG23	2.21	0.40
2:N:1023:VAL:O	2:N:1024:ALA:C	2.64	0.40
2:N:1096:ARG:HH11	2:N:1096:ARG:CG	2.34	0.40
2:N:1166:CYS:SG	2:N:1185:CYS:SG	3.09	0.40
2:N:1182:CYS:C	2:N:1183:ARG:O	2.62	0.40
4:P:54:SER:HB3	4:P:113:ALA:CB	2.50	0.40
5:Q:60:LEU:HB2	5:Q:78:TRP:CE3	2.56	0.40
5:Q:62:ASN:HB3	5:Q:63:PRO:CD	2.51	0.40
6:R:96:THR:O	6:R:100:GLN:CG	2.69	0.40
8:T:13:GLN:CG	8:T:27:ILE:O	2.69	0.40
9:U:90:GLN:HE21	9:U:92:ARG:CD	2.34	0.40
9:U:95:THR:CG2	9:U:96:ASN:H	2.25	0.40
10:V:35:LEU:HD22	10:V:40:LEU:HD12	2.02	0.40
1:A:366:GLY:HA2	1:A:462:LYS:O	2.21	0.40
1:A:467:SER:C	1:A:468:THR:HG23	2.45	0.40
1:A:1329:ARG:O	1:A:1330:THR:C	2.64	0.40
1:A:1348:ARG:HG3	1:A:1375:VAL:HG12	2.03	0.40
2:B:16:ASP:C	2:B:18:TRP:N	2.76	0.40
2:B:91:GLU:OE1	12:L:56:ARG:NH2	2.54	0.40
2:B:216:VAL:HG22	2:B:389:ASP:OD2	2.21	0.40
2:B:614:GLU:O	2:B:615:ARG:HB2	2.21	0.40
2:B:799:PRO:CB	2:B:818:PRO:HG2	2.49	0.40
2:B:842:ASN:OD1	2:B:844:SER:HB2	2.21	0.40
3:C:148:ARG:HG2	3:C:149:ASN:H	1.78	0.40
3:C:186:LEU:N	3:C:186:LEU:CD1	2.84	0.40
3:C:252:GLN:HG3	11:K:95:ILE:HG23	2.02	0.40
5:E:152:HIS:C	5:E:153:ILE:HG13	2.43	0.40
5:E:156:SER:O	5:E:158:GLY:N	2.54	0.40
7:G:119:LEU:HD12	7:G:131:MET:C	2.46	0.40
8:H:48:PRO:C	8:H:49:VAL:HG23	2.46	0.40
1:M:54:ASN:HD22	1:M:248:ARG:HH12	1.69	0.40
1:M:95:PHE:CE2	1:M:1413:PHE:HB3	2.50	0.40
1:M:102:VAL:HG11	1:M:212:PHE:CZ	2.57	0.40
1:M:574:THR:O	1:M:575:GLY:C	2.64	0.40
1:M:801:VAL:CG1	1:M:809:LEU:CG	2.99	0.40
1:M:1218:ILE:HG13	1:M:1218:ILE:H	1.70	0.40
2:N:163:ILE:HD13	2:N:169:PHE:HB2	2.04	0.40
2:N:324:ASP:O	2:N:326:ILE:HB	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:825:VAL:O	2:N:1087:PHE:HD2	2.04	0.40
2:N:956:THR:HG22	2:N:957:ASN:H	1.86	0.40
4:P:114:ARG:C	4:P:115:PHE:CG	3.00	0.40
4:P:179:ASN:HA	4:P:182:GLU:OE2	2.21	0.40
5:Q:153:ILE:O	5:Q:195:VAL:HA	2.22	0.40
8:T:48:PRO:C	8:T:49:VAL:HG23	2.46	0.40
9:U:25:LEU:HB3	9:U:38:ALA:HB2	2.03	0.40
1:A:91:PHE:HB2	1:A:298:GLN:HE22	1.85	0.40
1:A:102:VAL:HG11	1:A:212:PHE:CZ	2.56	0.40
1:A:130:ASP:O	1:A:131:PRO:C	2.64	0.40
1:A:400:HIS:CB	1:A:401:PRO:CD	2.99	0.40
1:A:1387:ILE:HG23	1:A:1387:ILE:O	2.21	0.40
1:A:1437:ALA:HA	1:A:1438:PRO:HD3	1.96	0.40
2:B:303:LEU:O	2:B:304:GLU:C	2.65	0.40
2:B:586:PRO:O	2:B:589:LEU:N	2.53	0.40
2:B:1021:MET:O	2:B:1023:VAL:N	2.55	0.40
2:B:1100:ASP:OD2	11:K:1:MET:HB3	2.22	0.40
4:D:48:LEU:CD1	4:D:49:ILE:N	2.81	0.40
4:D:141:GLU:O	4:D:142:ILE:C	2.64	0.40
5:E:60:LEU:HB2	5:E:78:TRP:CE3	2.56	0.40
5:E:146:HIS:HD2	5:E:148:LEU:H	1.68	0.40
5:E:153:ILE:O	5:E:195:VAL:HA	2.21	0.40
5:E:210:TYR:CD1	5:E:210:TYR:N	2.90	0.40
8:H:40:LEU:HD12	8:H:41:ASP:H	1.86	0.40
9:I:14:LEU:HD22	9:I:14:LEU:HA	1.88	0.40
11:K:85:GLN:O	11:K:88:GLU:HB2	2.21	0.40
12:L:52:GLU:HB3	12:L:53:CYS:H	1.68	0.40
12:L:57:VAL:HG23	12:L:58:ILE:N	2.36	0.40
1:M:345:ARG:CB	2:N:1129:ARG:CA	2.96	0.40
1:M:415:ASP:O	1:M:417:ARG:N	2.55	0.40
1:M:443:VAL:HB	1:M:490:LEU:HD11	2.02	0.40
1:M:551:LEU:CD1	1:M:561:VAL:HG12	2.51	0.40
1:M:1006:ASN:OD1	1:M:1007:GLU:N	2.54	0.40
1:M:1335:PHE:CD2	1:M:1336:VAL:N	2.89	0.40
2:N:316:ILE:HD13	2:N:321:VAL:HG12	2.03	0.40
2:N:770:GLN:HG2	2:N:983:ARG:C	2.45	0.40
2:N:831:SER:HB2	2:N:833:TYR:CD1	2.55	0.40
2:N:872:GLU:CD	2:N:914:LYS:HE3	2.46	0.40
2:N:1197:PRO:HG2	2:N:1200:ALA:HB3	2.02	0.40
5:Q:150:PRO:CB	5:Q:199:ARG:HB3	2.51	0.40
6:R:107:VAL:HG12	6:R:108:LEU:N	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:W:110:ASN:C	11:W:112:LYS:H	2.29	0.40
1:A:48:PRO:O	1:A:49:ARG:CG	2.70	0.40
1:A:233:GLU:C	1:A:235:MET:H	2.29	0.40
1:A:351:ARG:HA	1:A:488:MET:O	2.21	0.40
1:A:443:VAL:HB	1:A:490:LEU:HD11	2.02	0.40
1:A:556:SER:O	1:A:557:TRP:C	2.64	0.40
1:A:915:GLU:HB2	1:A:981:SER:O	2.21	0.40
1:A:1103:LEU:HD11	1:A:1107:LEU:HD11	2.03	0.40
1:A:1154:ILE:HD11	9:I:44:TYR:CD2	2.57	0.40
1:A:1374:LEU:O	1:A:1375:VAL:C	2.64	0.40
2:B:420:GLU:C	2:B:422:TYR:N	2.80	0.40
2:B:475:VAL:O	2:B:476:LEU:C	2.64	0.40
2:B:589:LEU:HD12	2:B:589:LEU:O	2.21	0.40
2:B:630:LEU:CD2	2:B:742:GLU:HA	2.49	0.40
2:B:945:GLU:O	2:B:946:ASN:CB	2.68	0.40
2:B:1000:PRO:O	2:B:1007:VAL:HG23	2.21	0.40
2:B:1006:ILE:HG22	10:J:44:CYS:HB3	2.03	0.40
3:C:100:LEU:HD12	3:C:100:LEU:HA	1.87	0.40
3:C:146:LYS:HB2	10:J:60:LEU:HD11	2.04	0.40
3:C:212:PRO:CB	3:C:213:PRO:HD2	2.52	0.40
4:D:140:PHE:CZ	7:G:85:GLU:HG3	2.41	0.40
11:K:43:ALA:O	11:K:45:LEU:N	2.54	0.40
1:M:568:LYS:HZ1	8:T:43:ASN:HB3	1.86	0.40
1:M:915:GLU:HB2	1:M:981:SER:O	2.21	0.40
1:M:1064:GLU:OE2	1:M:1064:GLU:HA	2.22	0.40
1:M:1107:LEU:O	1:M:1387:ILE:HG22	2.21	0.40
1:M:1163:THR:CG2	1:M:1164:VAL:H	2.34	0.40
2:N:216:VAL:HG22	2:N:389:ASP:OD2	2.21	0.40
2:N:401:LEU:HD12	2:N:401:LEU:HA	1.90	0.40
2:N:589:LEU:HD12	2:N:589:LEU:O	2.21	0.40
2:N:835:GLN:HE21	2:N:835:GLN:HB2	1.62	0.40
2:N:871:VAL:CG1	2:N:872:GLU:N	2.83	0.40
4:P:49:ILE:CG2	7:S:4:LEU:HB2	2.42	0.40
5:Q:153:ILE:H	5:Q:195:VAL:HG13	1.86	0.40
8:T:90:ASP:C	8:T:92:TYR:N	2.80	0.40
12:X:57:VAL:HG23	12:X:58:ILE:N	2.36	0.40
1:A:23:SER:HA	1:A:234:TRP:CD1	2.56	0.40
1:A:52:GLY:O	1:A:56:PRO:HG2	2.22	0.40
1:A:319:SER:O	2:B:463:LYS:O	2.39	0.40
1:A:591:ARG:HD3	1:A:605:GLY:CA	2.51	0.40
1:A:1206:ASP:C	1:A:1208:GLN:H	2.28	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1352:TYR:HA	1:A:1355:ILE:CG2	2.51	0.40
1:A:1450:GLU:OE1	1:A:1450:GLU:C	2.64	0.40
2:B:190:MET:CE	2:B:485:LEU:HD23	2.39	0.40
2:B:409:LEU:HD12	2:B:459:TRP:CE2	2.57	0.40
2:B:882:THR:HG22	2:B:884:ARG:HB2	2.03	0.40
2:B:882:THR:O	2:B:883:LEU:CB	2.63	0.40
2:B:889:THR:HG22	2:B:890:TYR:N	2.37	0.40
2:B:1030:LEU:HD12	2:B:1030:LEU:HA	1.88	0.40
2:B:1167:GLY:O	2:B:1215:ARG:HA	2.21	0.40
2:B:1201:LYS:HE2	2:B:1205:GLN:OE1	2.21	0.40
6:F:81:THR:HB	6:F:136:ARG:NH1	2.36	0.40
6:F:132:LEU:HD23	6:F:132:LEU:HA	1.88	0.40
6:F:136:ARG:O	6:F:143:TYR:HA	2.22	0.40
7:G:139:LYS:HB2	7:G:140:GLY:H	1.72	0.40
8:H:58:THR:CG2	8:H:59:LEU:N	2.82	0.40
1:M:556:SER:O	1:M:557:TRP:C	2.64	0.40
2:N:17:CYS:HB2	2:N:743:ILE:O	2.22	0.40
2:N:986:GLN:NE2	2:N:1022:THR:HG21	2.37	0.40
4:P:31:GLY:H	7:S:82:PHE:HE2	1.69	0.40
4:P:176:ASP:C	4:P:178:LEU:H	2.30	0.40
8:T:42:ILE:HG23	8:T:43:ASN:N	2.37	0.40
11:W:48:GLU:O	11:W:50:LEU:N	2.54	0.40

All (39) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:73:GLY:C	12:L:49:ARG:NH2[2_655]	1.24	0.96
4:D:73:GLY:O	12:L:49:ARG:NH2[2_655]	1.30	0.90
7:S:126:SER:O	9:U:38:ALA:O[1_455]	1.32	0.88
3:C:139:ASP:CB	11:W:113:ASN:C[2_646]	1.49	0.71
11:K:113:ASN:C	3:O:139:ASP:CB[2_646]	1.53	0.67
1:A:1451:LYS:O	12:L:45:SER:OG[2_655]	1.54	0.66
7:S:134:ASP:O	9:U:22:ASN:OD1[1_455]	1.54	0.66
7:S:53:ASN:OD1	12:X:51:LYS:NZ[2_546]	1.55	0.65
7:G:96:PRO:CB	8:H:91:ASP:CB[2_645]	1.61	0.59
7:S:124:SER:CB	8:T:54:SER:OG[2_556]	1.61	0.59
7:G:96:PRO:CG	8:H:91:ASP:CB[2_645]	1.68	0.52
4:P:73:GLY:O	12:X:49:ARG:NH2[2_546]	1.68	0.52
4:D:73:GLY:C	12:L:49:ARG:CZ[2_655]	1.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:53:ASN:ND2	12:L:51:LYS:NZ[2_655]	1.78	0.42
7:S:97:ILE:CG1	8:T:91:ASP:OD2[2_556]	1.81	0.39
7:S:53:ASN:CG	12:X:51:LYS:NZ[2_546]	1.82	0.38
4:D:73:GLY:O	12:L:49:ARG:CZ[2_655]	1.84	0.36
7:G:97:ILE:N	8:H:91:ASP:OD2[2_645]	1.86	0.34
4:D:73:GLY:C	12:L:49:ARG:NE[2_655]	1.91	0.29
7:S:53:ASN:OD1	12:X:51:LYS:CE[2_546]	1.92	0.28
7:S:53:ASN:ND2	12:X:51:LYS:NZ[2_546]	1.92	0.28
3:C:139:ASP:O	11:W:113:ASN:C[2_646]	1.93	0.27
3:C:139:ASP:O	11:W:113:ASN:O[2_646]	1.93	0.27
11:K:113:ASN:O	3:O:139:ASP:O[2_646]	1.98	0.22
11:K:113:ASN:O	3:O:139:ASP:CB[2_646]	1.98	0.22
3:C:139:ASP:C	11:W:113:ASN:O[2_646]	1.99	0.21
7:S:126:SER:CB	9:U:39:GLU:CA[1_455]	2.00	0.20
1:A:1451:LYS:O	12:L:45:SER:CB[2_655]	2.05	0.15
7:S:126:SER:O	9:U:38:ALA:C[1_455]	2.05	0.15
7:S:125:ASN:CB	9:U:37:LEU:CG[1_455]	2.06	0.14
3:C:139:ASP:CB	11:W:113:ASN:O[2_646]	2.07	0.13
7:G:96:PRO:C	8:H:91:ASP:OD2[2_645]	2.09	0.11
11:K:113:ASN:C	3:O:139:ASP:O[2_646]	2.09	0.11
11:K:113:ASN:O	3:O:139:ASP:C[2_646]	2.12	0.08
4:P:73:GLY:C	12:X:49:ARG:NH2[2_546]	2.12	0.08
3:C:139:ASP:O	11:W:113:ASN:CB[2_646]	2.13	0.07
7:S:126:SER:C	9:U:38:ALA:O[1_455]	2.15	0.05
1:M:1170:ASP:CG	4:P:81:ASN:CG[1_655]	2.17	0.03
7:S:126:SER:O	9:U:39:GLU:C[1_455]	2.17	0.03

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 X-ray entries followed by that with respect to entries of similar resolution.

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	1356/1743 (78%)	945 (70%)	279 (21%)	132 (10%)	0 7
1	M	1360/1743 (78%)	947 (70%)	279 (20%)	134 (10%)	0 7

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	1043/1227 (85%)	711 (68%)	210 (20%)	122 (12%)	0	4
2	N	1044/1227 (85%)	712 (68%)	210 (20%)	122 (12%)	0	4
3	C	261/304 (86%)	182 (70%)	56 (22%)	23 (9%)	0	8
3	O	261/304 (86%)	184 (70%)	54 (21%)	23 (9%)	0	8
4	D	151/186 (81%)	107 (71%)	26 (17%)	18 (12%)	0	4
4	P	150/186 (81%)	106 (71%)	26 (17%)	18 (12%)	0	4
5	E	212/214 (99%)	148 (70%)	43 (20%)	21 (10%)	0	7
5	Q	212/214 (99%)	148 (70%)	43 (20%)	21 (10%)	0	7
6	F	82/155 (53%)	57 (70%)	15 (18%)	10 (12%)	0	4
6	R	82/155 (53%)	57 (70%)	15 (18%)	10 (12%)	0	4
7	G	169/171 (99%)	129 (76%)	27 (16%)	13 (8%)	1	10
7	S	169/171 (99%)	130 (77%)	26 (15%)	13 (8%)	1	10
8	H	126/145 (87%)	94 (75%)	17 (14%)	15 (12%)	0	4
8	T	126/145 (87%)	94 (75%)	17 (14%)	15 (12%)	0	4
9	I	108/115 (94%)	70 (65%)	25 (23%)	13 (12%)	0	4
9	U	108/115 (94%)	69 (64%)	26 (24%)	13 (12%)	0	4
10	J	58/72 (81%)	34 (59%)	15 (26%)	9 (16%)	0	2
10	V	58/72 (81%)	34 (59%)	15 (26%)	9 (16%)	0	2
11	K	111/118 (94%)	82 (74%)	18 (16%)	11 (10%)	0	7
11	W	111/118 (94%)	82 (74%)	18 (16%)	11 (10%)	0	7
12	L	44/73 (60%)	19 (43%)	12 (27%)	13 (30%)	0	0
12	X	44/73 (60%)	19 (43%)	12 (27%)	13 (30%)	0	0
All	All	7446/9046 (82%)	5160 (69%)	1484 (20%)	802 (11%)	0	6

All (802) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	42	ASP
1	A	48	PRO
1	A	54	ASN
1	A	57	LYS
1	A	67	CYS
1	A	73	GLY
1	A	74	MET

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Mol	Chain	Res	Type
1	A	93	ILE
1	A	197	GLN
1	A	198	PRO
1	A	258	GLN
1	A	284	GLY
1	A	287	GLN
1	A	303	THR
1	A	304	TYR
1	A	312	GLN
1	A	313	PRO
1	A	336	ARG
1	A	365	VAL
1	A	383	GLN
1	A	411	GLY
1	A	425	ILE
1	A	466	TYR
1	A	526	GLN
1	A	568	LYS
1	A	598	LEU
1	A	599	LEU
1	A	776	ILE
1	A	1015	ASN
1	A	1018	SER
1	A	1038	ARG
1	A	1117	ALA
1	A	1125	GLU
1	A	1126	ILE
1	A	1167	GLU
1	A	1208	GLN
1	A	1233	ASP
1	A	1235	ALA
1	A	1258	GLU
1	A	1284	LYS
1	A	1327	SER
1	A	1441	THR
2	B	54	PRO
2	B	93	ASP
2	B	95	THR
2	B	220	ALA
2	B	274	ILE
2	B	325	PHE
2	B	326	ILE

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Mol	Chain	Res	Type
2	B	358	THR
2	B	360	GLU
2	B	394	PHE
2	B	463	LYS
2	B	613	ARG
2	B	622	ASP
2	B	634	GLU
2	B	640	ASP
2	B	705	GLU
2	B	813	LYS
2	B	869	SER
2	B	879	ARG
2	B	881	THR
2	B	884	ARG
2	B	907	GLY
2	B	976	ILE
2	B	1046	PRO
2	B	1097	HIS
2	B	1100	ASP
2	B	1131	GLY
2	B	1155	SER
2	B	1156	ASP
2	B	1167	GLY
2	B	1171	VAL
2	B	1175	LEU
2	B	1182	CYS
2	B	1223	VAL
3	C	4	GLU
3	C	139	ASP
3	C	161	LYS
3	C	237	SER
4	D	5	THR
4	D	48	LEU
4	D	91	LYS
4	D	139	PRO
4	D	167	LYS
5	E	73	ASP
5	E	86	SER
5	E	105	SER
6	F	73	ALA
6	F	74	ILE
7	G	52	MET

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Mol	Chain	Res	Type
7	G	118	ASN
7	G	123	PRO
7	G	139	LYS
7	G	154	VAL
8	H	60	ALA
8	H	82	LYS
8	H	107	ASP
8	H	139	LEU
9	I	20	LYS
9	I	56	ALA
9	I	106	CYS
9	I	107	LYS
10	J	2	ILE
10	J	41	LYS
10	J	63	ASN
11	K	7	PHE
11	K	43	ALA
12	L	37	ALA
12	L	41	SER
12	L	44	LYS
12	L	46	ASP
12	L	47	PRO
12	L	52	GLU
12	L	61	ALA
12	L	62	ARG
1	M	42	ASP
1	M	48	PRO
1	M	54	ASN
1	M	57	LYS
1	M	67	CYS
1	M	73	GLY
1	M	74	MET
1	M	93	ILE
1	M	197	GLN
1	M	198	PRO
1	M	254	ASP
1	M	258	GLN
1	M	284	GLY
1	M	287	GLN
1	M	303	THR
1	M	304	TYR
1	M	312	GLN

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Mol	Chain	Res	Type
1	M	313	PRO
1	M	336	ARG
1	M	365	VAL
1	M	383	GLN
1	M	411	GLY
1	M	425	ILE
1	M	466	TYR
1	M	526	GLN
1	M	568	LYS
1	M	598	LEU
1	M	599	LEU
1	M	776	ILE
1	M	1015	ASN
1	M	1018	SER
1	M	1038	ARG
1	M	1117	ALA
1	M	1125	GLU
1	M	1126	ILE
1	M	1167	GLU
1	M	1208	GLN
1	M	1233	ASP
1	M	1235	ALA
1	M	1258	GLU
1	M	1284	LYS
1	M	1327	SER
1	M	1344	ILE
1	M	1441	THR
2	N	54	PRO
2	N	93	ASP
2	N	95	THR
2	N	220	ALA
2	N	274	ILE
2	N	325	PHE
2	N	326	ILE
2	N	358	THR
2	N	360	GLU
2	N	394	PHE
2	N	463	LYS
2	N	613	ARG
2	N	622	ASP
2	N	634	GLU
2	N	640	ASP

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Mol	Chain	Res	Type
2	N	705	GLU
2	N	813	LYS
2	N	869	SER
2	N	879	ARG
2	N	881	THR
2	N	884	ARG
2	N	907	GLY
2	N	976	ILE
2	N	1046	PRO
2	N	1097	HIS
2	N	1100	ASP
2	N	1131	GLY
2	N	1155	SER
2	N	1156	ASP
2	N	1167	GLY
2	N	1171	VAL
2	N	1175	LEU
2	N	1182	CYS
2	N	1223	VAL
3	O	4	GLU
3	O	139	ASP
3	O	161	LYS
3	O	237	SER
4	P	5	THR
4	P	48	LEU
4	P	91	LYS
4	P	139	PRO
4	P	167	LYS
5	Q	73	ASP
5	Q	86	SER
5	Q	105	SER
6	R	73	ALA
6	R	74	ILE
7	S	52	MET
7	S	118	ASN
7	S	123	PRO
7	S	139	LYS
7	S	154	VAL
8	T	60	ALA
8	T	82	LYS
8	T	107	ASP
8	T	139	LEU

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Mol	Chain	Res	Type
9	U	20	LYS
9	U	56	ALA
9	U	106	CYS
9	U	107	LYS
10	V	2	ILE
10	V	41	LYS
10	V	63	ASN
11	W	7	PHE
11	W	43	ALA
12	X	37	ALA
12	X	41	SER
12	X	44	LYS
12	X	46	ASP
12	X	47	PRO
12	X	52	GLU
12	X	61	ALA
12	X	62	ARG
1	A	35	ILE
1	A	55	ASP
1	A	58	LEU
1	A	62	ASP
1	A	69	THR
1	A	71	GLY
1	A	76	GLU
1	A	319	SER
1	A	416	LEU
1	A	424	ASP
1	A	467	SER
1	A	518	ASN
1	A	535	MET
1	A	592	THR
1	A	629	GLY
1	A	673	ASP
1	A	700	HIS
1	A	717	GLY
1	A	772	GLU
1	A	847	GLU
1	A	848	ASP
1	A	853	TYR
1	A	974	HIS
1	A	1004	GLY
1	A	1016	ALA

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Mol	Chain	Res	Type
1	A	1122	LEU
1	A	1124	ARG
1	A	1214	VAL
1	A	1223	SER
1	A	1264	LYS
1	A	1269	HIS
1	A	1317	ALA
1	A	1344	ILE
1	A	1408	THR
1	A	1424	CYS
2	B	17	CYS
2	B	45	SER
2	B	55	ARG
2	B	102	GLN
2	B	167	SER
2	B	177	GLU
2	B	197	ASN
2	B	210	ALA
2	B	250	TYR
2	B	251	GLY
2	B	255	LYS
2	B	287	GLY
2	B	297	GLU
2	B	459	TRP
2	B	460	GLY
2	B	510	THR
2	B	523	GLY
2	B	550	PHE
2	B	552	GLU
2	B	635	ASP
2	B	702	MET
2	B	706	ASP
2	B	792	MET
2	B	883	LEU
2	B	888	GLY
2	B	909	ASP
2	B	946	ASN
2	B	1006	ILE
2	B	1069	PHE
2	B	1075	GLY
2	B	1126	GLY
2	B	1176	LYS

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Mol	Chain	Res	Type
2	B	1186	LYS
3	C	17	VAL
3	C	133	VAL
3	C	149	ASN
3	C	156	ARG
3	C	173	CYS
3	C	184	ASN
4	D	53	LEU
4	D	92	VAL
4	D	142	ILE
4	D	163	LEU
4	D	177	GLU
5	E	29	ILE
5	E	44	LYS
5	E	87	VAL
5	E	119	ALA
5	E	120	ASN
5	E	129	ALA
5	E	137	SER
6	F	154	ASP
7	G	50	ASP
8	H	18	GLY
8	H	62	SER
8	H	80	PRO
8	H	81	PRO
8	H	89	ALA
9	I	11	ASN
9	I	34	TYR
9	I	57	GLY
10	J	6	ARG
10	J	14	VAL
11	K	14	ASP
11	K	15	ASP
11	K	44	ASN
11	K	49	GLU
11	K	59	VAL
11	K	80	GLY
12	L	55	HIS
12	L	57	VAL
12	L	58	ILE
1	M	35	ILE
1	M	55	ASP

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Mol	Chain	Res	Type
1	M	58	LEU
1	M	62	ASP
1	M	69	THR
1	M	71	GLY
1	M	76	GLU
1	M	319	SER
1	M	416	LEU
1	M	424	ASP
1	M	467	SER
1	M	518	ASN
1	M	535	MET
1	M	592	THR
1	M	629	GLY
1	M	673	ASP
1	M	700	HIS
1	M	717	GLY
1	M	772	GLU
1	M	847	GLU
1	M	848	ASP
1	M	853	TYR
1	M	974	HIS
1	M	988	ILE
1	M	1004	GLY
1	M	1016	ALA
1	M	1122	LEU
1	M	1124	ARG
1	M	1214	VAL
1	M	1223	SER
1	M	1264	LYS
1	M	1269	HIS
1	M	1317	ALA
1	M	1408	THR
1	M	1424	CYS
2	N	17	CYS
2	N	45	SER
2	N	55	ARG
2	N	102	GLN
2	N	167	SER
2	N	177	GLU
2	N	197	ASN
2	N	210	ALA
2	N	250	TYR

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Mol	Chain	Res	Type
2	N	251	GLY
2	N	255	LYS
2	N	287	GLY
2	N	297	GLU
2	N	459	TRP
2	N	460	GLY
2	N	510	THR
2	N	523	GLY
2	N	550	PHE
2	N	552	GLU
2	N	635	ASP
2	N	702	MET
2	N	706	ASP
2	N	792	MET
2	N	888	GLY
2	N	909	ASP
2	N	946	ASN
2	N	1006	ILE
2	N	1069	PHE
2	N	1075	GLY
2	N	1126	GLY
2	N	1176	LYS
2	N	1186	LYS
3	O	17	VAL
3	O	133	VAL
3	O	149	ASN
3	O	156	ARG
3	O	173	CYS
3	O	184	ASN
4	P	53	LEU
4	P	92	VAL
4	P	142	ILE
4	P	163	LEU
4	P	177	GLU
5	Q	29	ILE
5	Q	44	LYS
5	Q	87	VAL
5	Q	119	ALA
5	Q	120	ASN
5	Q	129	ALA
5	Q	137	SER
6	R	154	ASP

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Mol	Chain	Res	Type
7	S	50	ASP
8	T	18	GLY
8	T	62	SER
8	T	80	PRO
8	T	81	PRO
8	T	89	ALA
9	U	11	ASN
9	U	34	TYR
9	U	57	GLY
10	V	6	ARG
10	V	14	VAL
11	W	14	ASP
11	W	15	ASP
11	W	44	ASN
11	W	49	GLU
11	W	59	VAL
11	W	80	GLY
12	X	55	HIS
12	X	57	VAL
12	X	58	ILE
1	A	45	ARG
1	A	131	PRO
1	A	264	THR
1	A	337	LEU
1	A	419	HIS
1	A	610	ASP
1	A	667	ILE
1	A	777	ALA
1	A	872	ASP
1	A	886	THR
1	A	988	ILE
1	A	1006	ASN
1	A	1226	LEU
1	A	1368	TYR
1	A	1369	ARG
1	A	1389	ARG
2	B	33	GLN
2	B	42	MET
2	B	43	GLU
2	B	173	ARG
2	B	253	GLU
2	B	300	TRP

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Mol	Chain	Res	Type
2	B	324	ASP
2	B	382	ALA
2	B	407	ALA
2	B	443	SER
2	B	453	SER
2	B	467	SER
2	B	524	GLN
2	B	584	ARG
2	B	603	SER
2	B	842	ASN
2	B	848	ARG
2	B	951	GLN
2	B	1022	THR
2	B	1108	ARG
2	B	1121	GLY
2	B	1158	PHE
2	B	1178	ASN
2	B	1181	GLU
3	C	89	ASP
3	C	132	PRO
4	D	13	ARG
4	D	22	GLU
4	D	54	SER
5	E	2	GLU
5	E	40	GLU
5	E	50	GLY
5	E	72	SER
6	F	81	THR
7	G	35	GLU
7	G	94	VAL
7	G	165	GLU
7	G	167	PHE
8	H	108	GLU
9	I	47	GLU
10	J	24	LEU
10	J	28	GLY
10	J	43	TYR
11	K	78	GLU
12	L	45	SER
12	L	51	LYS
1	M	45	ARG
1	M	131	PRO

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Mol	Chain	Res	Type
1	M	264	THR
1	M	337	LEU
1	M	419	HIS
1	M	610	ASP
1	M	667	ILE
1	M	777	ALA
1	M	872	ASP
1	M	886	THR
1	M	1006	ASN
1	M	1226	LEU
1	M	1368	TYR
1	M	1369	ARG
1	M	1389	ARG
2	N	33	GLN
2	N	42	MET
2	N	43	GLU
2	N	173	ARG
2	N	253	GLU
2	N	300	TRP
2	N	324	ASP
2	N	382	ALA
2	N	407	ALA
2	N	443	SER
2	N	453	SER
2	N	467	SER
2	N	524	GLN
2	N	584	ARG
2	N	603	SER
2	N	842	ASN
2	N	848	ARG
2	N	883	LEU
2	N	951	GLN
2	N	1022	THR
2	N	1108	ARG
2	N	1121	GLY
2	N	1158	PHE
2	N	1178	ASN
2	N	1181	GLU
3	O	89	ASP
3	O	132	PRO
4	P	13	ARG
4	P	22	GLU

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Mol	Chain	Res	Type
4	P	54	SER
5	Q	2	GLU
5	Q	40	GLU
5	Q	50	GLY
5	Q	72	SER
6	R	81	THR
7	S	35	GLU
7	S	94	VAL
7	S	165	GLU
7	S	167	PHE
8	T	108	GLU
9	U	47	GLU
10	V	24	LEU
10	V	28	GLY
10	V	43	TYR
11	W	78	GLU
12	X	45	SER
12	X	51	LYS
1	A	44	SER
1	A	65	PHE
1	A	109	ASN
1	A	196	ALA
1	A	318	LYS
1	A	323	VAL
1	A	569	PRO
1	A	1017	THR
1	A	1064	GLU
1	A	1073	SER
1	A	1116	PRO
1	A	1169	PHE
1	A	1283	SER
1	A	1338	ILE
1	A	1381	ARG
1	A	1406	GLU
1	A	1414	GLU
2	B	101	PRO
2	B	181	TYR
2	B	568	THR
2	B	724	LYS
2	B	738	PHE
2	B	785	TYR
2	B	1116	ARG

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Mol	Chain	Res	Type
2	B	1136	ASP
2	B	1177	LYS
3	C	106	GLY
3	C	148	ARG
3	C	153	LEU
3	C	240	ALA
5	E	37	SER
5	E	55	LYS
5	E	58	SER
5	E	191	ARG
5	E	202	GLU
6	F	150	GLU
7	G	17	TYR
7	G	67	SER
8	H	91	ASP
8	H	127	GLY
9	I	9	GLU
9	I	86	PHE
11	K	54	PRO
11	K	111	ILE
1	M	44	SER
1	M	65	PHE
1	M	109	ASN
1	M	196	ALA
1	M	318	LYS
1	M	323	VAL
1	M	569	PRO
1	M	1017	THR
1	M	1073	SER
1	M	1116	PRO
1	M	1169	PHE
1	M	1283	SER
1	M	1338	ILE
1	M	1381	ARG
1	M	1406	GLU
1	M	1414	GLU
2	N	101	PRO
2	N	568	THR
2	N	724	LYS
2	N	738	PHE
2	N	785	TYR
2	N	1116	ARG

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Mol	Chain	Res	Type
2	N	1136	ASP
2	N	1177	LYS
3	O	106	GLY
3	O	148	ARG
3	O	153	LEU
3	O	240	ALA
5	Q	37	SER
5	Q	58	SER
5	Q	202	GLU
6	R	150	GLU
7	S	17	TYR
7	S	67	SER
8	T	91	ASP
8	T	127	GLY
9	U	9	GLU
9	U	86	PHE
11	W	54	PRO
11	W	111	ILE
1	A	70	CYS
1	A	234	TRP
1	A	601	PRO
1	A	651	GLN
1	A	652	LYS
1	A	707	PRO
1	A	739	LYS
1	A	753	LYS
1	A	860	SER
1	A	960	VAL
1	A	981	SER
1	A	1206	ASP
1	A	1401	MET
2	B	15	GLU
2	B	32	SER
2	B	175	LEU
2	B	254	ASP
2	B	429	ILE
2	B	462	GLN
2	B	587	SER
2	B	1065	GLN
2	B	1183	ARG
2	B	1188	LYS
3	C	33	ARG

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Mol	Chain	Res	Type
3	C	129	VAL
3	C	214	LYS
3	C	227	ARG
5	E	85	PRO
6	F	106	PRO
6	F	151	LEU
7	G	128	PRO
8	H	12	VAL
8	H	94	TYR
8	H	118	GLY
9	I	33	ASP
1	M	70	CYS
1	M	234	TRP
1	M	255	GLU
1	M	311	GLY
1	M	601	PRO
1	M	651	GLN
1	M	652	LYS
1	M	707	PRO
1	M	753	LYS
1	M	860	SER
1	M	960	VAL
1	M	981	SER
1	M	1064	GLU
1	M	1206	ASP
1	M	1401	MET
2	N	15	GLU
2	N	32	SER
2	N	175	LEU
2	N	181	TYR
2	N	254	ASP
2	N	429	ILE
2	N	462	GLN
2	N	587	SER
2	N	1065	GLN
2	N	1183	ARG
2	N	1188	LYS
3	O	33	ARG
3	O	129	VAL
3	O	169	LYS
3	O	214	LYS
3	O	227	ARG

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Mol	Chain	Res	Type
5	Q	55	LYS
5	Q	85	PRO
5	Q	191	ARG
6	R	106	PRO
6	R	151	LEU
7	S	128	PRO
8	T	12	VAL
8	T	94	TYR
9	U	33	ASP
1	A	311	GLY
1	A	1013	GLN
2	B	118	ASP
2	B	296	ASP
3	C	59	ASP
3	C	142	ILE
3	C	169	LYS
4	D	95	GLY
4	D	183	ASP
5	E	39	GLU
9	I	8	LEU
1	M	739	LYS
1	M	1013	GLN
2	N	118	ASP
2	N	296	ASP
3	O	59	ASP
3	O	142	ILE
4	P	95	GLY
4	P	183	ASP
5	Q	39	GLU
8	T	118	GLY
9	U	8	LEU
2	B	282	GLY
2	B	1017	ILE
4	D	8	VAL
4	D	161	PRO
6	F	109	VAL
6	F	111	ILE
9	I	75	CYS
2	N	282	GLY
2	N	1017	ILE
4	P	8	VAL
4	P	161	PRO

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Mol	Chain	Res	Type
6	R	109	VAL
6	R	111	ILE
9	U	75	CYS
1	A	520	PRO
1	A	757	ILE
2	B	1099	VAL
10	J	56	ILE
1	M	520	PRO
1	M	757	ILE
6	R	105	ALA
10	V	56	ILE
1	A	245	PRO
1	A	1244	VAL
2	B	992	VAL
6	F	105	ALA
1	M	245	PRO
1	M	1244	VAL
2	N	992	VAL
2	N	1099	VAL
1	A	232	PRO
2	B	457	GLY
2	B	543	PRO
2	B	629	PRO
2	B	977	GLY
4	D	31	GLY
1	M	232	PRO
1	M	1077	PRO
2	N	457	GLY
2	N	543	PRO
2	N	977	GLY
4	P	31	GLY
1	A	378	PRO
1	A	1077	PRO
2	B	307	LYS
2	B	590	VAL
1	M	378	PRO
2	N	307	LYS
2	N	590	VAL
2	N	629	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	970/1528 (64%)	870 (90%)	100 (10%)	7	23
1	M	973/1528 (64%)	872 (90%)	101 (10%)	7	22
2	B	815/1077 (76%)	726 (89%)	89 (11%)	6	20
2	N	818/1077 (76%)	729 (89%)	89 (11%)	6	20
3	C	154/264 (58%)	135 (88%)	19 (12%)	4	17
3	O	157/264 (60%)	137 (87%)	20 (13%)	4	16
4	D	79/160 (49%)	66 (84%)	13 (16%)	2	10
4	P	80/160 (50%)	66 (82%)	14 (18%)	2	9
5	E	155/197 (79%)	140 (90%)	15 (10%)	8	24
5	Q	155/197 (79%)	140 (90%)	15 (10%)	8	24
6	F	60/137 (44%)	53 (88%)	7 (12%)	5	18
6	R	60/137 (44%)	53 (88%)	7 (12%)	5	18
7	G	102/148 (69%)	90 (88%)	12 (12%)	5	18
7	S	103/148 (70%)	91 (88%)	12 (12%)	5	18
8	H	90/130 (69%)	82 (91%)	8 (9%)	9	28
8	T	89/130 (68%)	81 (91%)	8 (9%)	9	27
9	I	80/109 (73%)	73 (91%)	7 (9%)	9	28
9	U	80/109 (73%)	73 (91%)	7 (9%)	9	28
10	J	47/66 (71%)	38 (81%)	9 (19%)	1	8
10	V	47/66 (71%)	38 (81%)	9 (19%)	1	8
11	K	68/109 (62%)	56 (82%)	12 (18%)	2	9
11	W	68/109 (62%)	56 (82%)	12 (18%)	2	9
12	L	25/58 (43%)	23 (92%)	2 (8%)	11	31
12	X	26/58 (45%)	24 (92%)	2 (8%)	12	32
All	All	5301/7966 (66%)	4712 (89%)	589 (11%)	6	19

All (589) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	12	ARG
1	A	18	GLN
1	A	34	LYS
1	A	41	MET
1	A	62	ASP
1	A	110	CYS
1	A	120	PRO
1	A	121	THR
1	A	131	PRO
1	A	198	PRO
1	A	200	ARG
1	A	216	SER
1	A	217	PRO
1	A	244	PRO
1	A	262	ASP
1	A	271	LEU
1	A	290	ILE
1	A	303	THR
1	A	309	ILE
1	A	313	PRO
1	A	336	ARG
1	A	345	ARG
1	A	346	VAL
1	A	370	SER
1	A	384	TYR
1	A	386	ILE
1	A	390	THR
1	A	404	LYS
1	A	406	VAL
1	A	409	ASP
1	A	413	ARG
1	A	441	ASP
1	A	444	LEU
1	A	446	ASN
1	A	448	GLN
1	A	451	LEU
1	A	452	HIS
1	A	462	LYS
1	A	463	VAL
1	A	467	SER
1	A	470	ARG
1	A	494	GLN
1	A	498	THR

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Mol	Chain	Res	Type
1	A	506	CYS
1	A	525	VAL
1	A	543	GLU
1	A	561	VAL
1	A	598	LEU
1	A	617	VAL
1	A	636	ARG
1	A	651	GLN
1	A	667	ILE
1	A	677	MET
1	A	707	PRO
1	A	719	VAL
1	A	722	THR
1	A	728	ASP
1	A	739	LYS
1	A	741	LEU
1	A	775	ARG
1	A	822	ARG
1	A	859	ASN
1	A	887	ILE
1	A	927	GLN
1	A	930	LEU
1	A	941	ARG
1	A	986	PRO
1	A	1031	ARG
1	A	1050	THR
1	A	1052	GLU
1	A	1054	GLN
1	A	1118	LEU
1	A	1122	LEU
1	A	1148	VAL
1	A	1154	ILE
1	A	1168	ASP
1	A	1196	ARG
1	A	1238	LEU
1	A	1244	VAL
1	A	1258	GLU
1	A	1267	GLU
1	A	1270	MET
1	A	1274	ILE
1	A	1280	PRO
1	A	1294	VAL

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Mol	Chain	Res	Type
1	A	1300	GLU
1	A	1327	SER
1	A	1335	PHE
1	A	1371	MET
1	A	1374	LEU
1	A	1388	THR
1	A	1403	CYS
1	A	1406	GLU
1	A	1427	VAL
1	A	1429	GLU
1	A	1435	GLN
1	A	1444	PHE
1	A	1447	MET
1	A	1448	ILE
1	A	1450	GLU
2	B	17	CYS
2	B	50	VAL
2	B	54	PRO
2	B	90	THR
2	B	95	THR
2	B	166	ARG
2	B	178	VAL
2	B	185	GLU
2	B	226	SER
2	B	252	ARG
2	B	259	ARG
2	B	260	THR
2	B	290	LEU
2	B	295	TYR
2	B	358	THR
2	B	364	GLU
2	B	386	LYS
2	B	416	LYS
2	B	441	VAL
2	B	458	ASN
2	B	459	TRP
2	B	469	ARG
2	B	478	ARG
2	B	489	ARG
2	B	491	THR
2	B	506	GLN
2	B	509	ASN

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Mol	Chain	Res	Type
2	B	543	PRO
2	B	544	SER
2	B	575	VAL
2	B	584	ARG
2	B	596	LEU
2	B	603	SER
2	B	607	SER
2	B	609	ILE
2	B	621	THR
2	B	622	ASP
2	B	628	ARG
2	B	629	PRO
2	B	637	GLU
2	B	676	TYR
2	B	728	PRO
2	B	737	THR
2	B	755	ILE
2	B	787	VAL
2	B	790	ASP
2	B	791	THR
2	B	797	TYR
2	B	798	TYR
2	B	811	TYR
2	B	831	SER
2	B	835	GLN
2	B	839	MET
2	B	845	SER
2	B	859	TYR
2	B	878	THR
2	B	887	HIS
2	B	899	ILE
2	B	939	THR
2	B	944	THR
2	B	953	LEU
2	B	970	THR
2	B	986	GLN
2	B	997	GLU
2	B	999	MET
2	B	1006	ILE
2	B	1021	MET
2	B	1022	THR
2	B	1045	THR

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Mol	Chain	Res	Type
2	B	1046	PRO
2	B	1047	PHE
2	B	1069	PHE
2	B	1071	VAL
2	B	1084	GLN
2	B	1092	TYR
2	B	1095	LEU
2	B	1096	ARG
2	B	1103	ILE
2	B	1147	LEU
2	B	1151	LEU
2	B	1159	ARG
2	B	1185	CYS
2	B	1189	THR
2	B	1192	TYR
2	B	1198	TYR
2	B	1202	LEU
2	B	1211	ASN
2	B	1218	THR
2	B	1224	SER
3	C	9	ILE
3	C	34	ARG
3	C	66	LEU
3	C	76	VAL
3	C	96	VAL
3	C	101	SER
3	C	111	THR
3	C	121	VAL
3	C	124	PRO
3	C	136	ASP
3	C	147	LEU
3	C	163	ILE
3	C	166	GLU
3	C	194	GLU
3	C	215	PRO
3	C	233	GLU
3	C	251	LEU
3	C	262	LEU
3	C	267	PRO
4	D	30	LEU
4	D	32	PRO
4	D	41	HIS

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Mol	Chain	Res	Type
4	D	48	LEU
4	D	51	LEU
4	D	102	VAL
4	D	109	LEU
4	D	117	ASP
4	D	139	PRO
4	D	158	THR
4	D	171	LEU
4	D	184	PRO
4	D	185	TYR
5	E	8	ILE
5	E	16	ARG
5	E	29	ILE
5	E	32	GLU
5	E	37	SER
5	E	59	PHE
5	E	65	PRO
5	E	72	SER
5	E	73	ASP
5	E	77	LEU
5	E	103	ASN
5	E	113	ASN
5	E	131	ILE
5	E	143	ILE
5	E	174	LEU
6	F	74	ILE
6	F	90	ARG
6	F	99	LEU
6	F	103	MET
6	F	116	ASP
6	F	133	VAL
6	F	138	LEU
7	G	1	MET
7	G	13	LEU
7	G	49	LEU
7	G	74	TYR
7	G	77	VAL
7	G	80	LYS
7	G	88	ASP
7	G	111	SER
7	G	112	THR
7	G	128	PRO

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Mol	Chain	Res	Type
7	G	163	ILE
7	G	171	ILE
8	H	3	SER
8	H	10	PHE
8	H	56	THR
8	H	63	LEU
8	H	95	VAL
8	H	101	TYR
8	H	102	LYS
8	H	109	ASP
9	I	12	ASN
9	I	14	LEU
9	I	15	TYR
9	I	51	ASN
9	I	87	GLN
9	I	98	THR
9	I	100	PHE
10	J	2	ILE
10	J	7	CYS
10	J	13	VAL
10	J	16	ASP
10	J	22	LEU
10	J	42	ARG
10	J	43	TYR
10	J	45	CYS
10	J	63	ASN
11	K	1	MET
11	K	10	PHE
11	K	16	VAL
11	K	17	PRO
11	K	25	SER
11	K	47	ARG
11	K	54	PRO
11	K	57	THR
11	K	72	VAL
11	K	76	GLN
11	K	94	ILE
11	K	101	LEU
12	L	56	ARG
12	L	65	ARG
1	M	12	ARG
1	M	18	GLN

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Mol	Chain	Res	Type
1	M	34	LYS
1	M	41	MET
1	M	62	ASP
1	M	110	CYS
1	M	120	PRO
1	M	121	THR
1	M	131	PRO
1	M	198	PRO
1	M	200	ARG
1	M	216	SER
1	M	217	PRO
1	M	244	PRO
1	M	262	ASP
1	M	271	LEU
1	M	290	ILE
1	M	303	THR
1	M	309	ILE
1	M	313	PRO
1	M	336	ARG
1	M	345	ARG
1	M	346	VAL
1	M	370	SER
1	M	384	TYR
1	M	386	ILE
1	M	390	THR
1	M	404	LYS
1	M	406	VAL
1	M	409	ASP
1	M	413	ARG
1	M	441	ASP
1	M	444	LEU
1	M	446	ASN
1	M	448	GLN
1	M	451	LEU
1	M	452	HIS
1	M	462	LYS
1	M	463	VAL
1	M	467	SER
1	M	470	ARG
1	M	494	GLN
1	M	498	THR
1	M	506	CYS

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Mol	Chain	Res	Type
1	M	525	VAL
1	M	543	GLU
1	M	561	VAL
1	M	598	LEU
1	M	617	VAL
1	M	636	ARG
1	M	651	GLN
1	M	667	ILE
1	M	677	MET
1	M	707	PRO
1	M	719	VAL
1	M	722	THR
1	M	728	ASP
1	M	739	LYS
1	M	741	LEU
1	M	775	ARG
1	M	822	ARG
1	M	859	ASN
1	M	887	ILE
1	M	927	GLN
1	M	930	LEU
1	M	941	ARG
1	M	986	PRO
1	M	1031	ARG
1	M	1032	ARG
1	M	1050	THR
1	M	1052	GLU
1	M	1054	GLN
1	M	1118	LEU
1	M	1122	LEU
1	M	1148	VAL
1	M	1154	ILE
1	M	1168	ASP
1	M	1196	ARG
1	M	1238	LEU
1	M	1244	VAL
1	M	1258	GLU
1	M	1267	GLU
1	M	1270	MET
1	M	1274	ILE
1	M	1280	PRO
1	M	1294	VAL

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Mol	Chain	Res	Type
1	M	1300	GLU
1	M	1327	SER
1	M	1335	PHE
1	M	1371	MET
1	M	1374	LEU
1	M	1388	THR
1	M	1403	CYS
1	M	1406	GLU
1	M	1427	VAL
1	M	1429	GLU
1	M	1435	GLN
1	M	1444	PHE
1	M	1447	MET
1	M	1448	ILE
1	M	1450	GLU
2	N	17	CYS
2	N	50	VAL
2	N	54	PRO
2	N	90	THR
2	N	95	THR
2	N	166	ARG
2	N	178	VAL
2	N	185	GLU
2	N	226	SER
2	N	252	ARG
2	N	259	ARG
2	N	260	THR
2	N	290	LEU
2	N	295	TYR
2	N	358	THR
2	N	364	GLU
2	N	386	LYS
2	N	416	LYS
2	N	441	VAL
2	N	458	ASN
2	N	459	TRP
2	N	469	ARG
2	N	478	ARG
2	N	489	ARG
2	N	491	THR
2	N	506	GLN
2	N	509	ASN

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Mol	Chain	Res	Type
2	N	543	PRO
2	N	544	SER
2	N	575	VAL
2	N	584	ARG
2	N	596	LEU
2	N	603	SER
2	N	607	SER
2	N	609	ILE
2	N	621	THR
2	N	622	ASP
2	N	628	ARG
2	N	629	PRO
2	N	637	GLU
2	N	676	TYR
2	N	728	PRO
2	N	737	THR
2	N	755	ILE
2	N	787	VAL
2	N	790	ASP
2	N	791	THR
2	N	797	TYR
2	N	798	TYR
2	N	811	TYR
2	N	831	SER
2	N	835	GLN
2	N	839	MET
2	N	845	SER
2	N	859	TYR
2	N	878	THR
2	N	887	HIS
2	N	899	ILE
2	N	939	THR
2	N	944	THR
2	N	953	LEU
2	N	970	THR
2	N	986	GLN
2	N	997	GLU
2	N	999	MET
2	N	1006	ILE
2	N	1021	MET
2	N	1022	THR
2	N	1045	THR

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Mol	Chain	Res	Type
2	N	1046	PRO
2	N	1047	PHE
2	N	1069	PHE
2	N	1071	VAL
2	N	1084	GLN
2	N	1092	TYR
2	N	1095	LEU
2	N	1096	ARG
2	N	1103	ILE
2	N	1147	LEU
2	N	1151	LEU
2	N	1159	ARG
2	N	1185	CYS
2	N	1189	THR
2	N	1192	TYR
2	N	1198	TYR
2	N	1202	LEU
2	N	1211	ASN
2	N	1218	THR
2	N	1224	SER
3	O	9	ILE
3	O	34	ARG
3	O	66	LEU
3	O	76	VAL
3	O	96	VAL
3	O	101	SER
3	O	111	THR
3	O	121	VAL
3	O	124	PRO
3	O	136	ASP
3	O	147	LEU
3	O	163	ILE
3	O	166	GLU
3	O	194	GLU
3	O	215	PRO
3	O	218	VAL
3	O	233	GLU
3	O	251	LEU
3	O	262	LEU
3	O	267	PRO
4	P	30	LEU
4	P	32	PRO

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Mol	Chain	Res	Type
4	P	41	HIS
4	P	48	LEU
4	P	51	LEU
4	P	92	VAL
4	P	102	VAL
4	P	109	LEU
4	P	117	ASP
4	P	139	PRO
4	P	158	THR
4	P	171	LEU
4	P	184	PRO
4	P	185	TYR
5	Q	8	ILE
5	Q	16	ARG
5	Q	29	ILE
5	Q	32	GLU
5	Q	37	SER
5	Q	59	PHE
5	Q	65	PRO
5	Q	72	SER
5	Q	73	ASP
5	Q	77	LEU
5	Q	103	ASN
5	Q	113	ASN
5	Q	131	ILE
5	Q	143	ILE
5	Q	174	LEU
6	R	74	ILE
6	R	90	ARG
6	R	99	LEU
6	R	103	MET
6	R	116	ASP
6	R	133	VAL
6	R	138	LEU
7	S	1	MET
7	S	13	LEU
7	S	49	LEU
7	S	74	TYR
7	S	77	VAL
7	S	80	LYS
7	S	88	ASP
7	S	111	SER

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Mol	Chain	Res	Type
7	S	112	THR
7	S	128	PRO
7	S	163	ILE
7	S	171	ILE
8	T	3	SER
8	T	10	PHE
8	T	56	THR
8	T	63	LEU
8	T	95	VAL
8	T	101	TYR
8	T	102	LYS
8	T	109	ASP
9	U	12	ASN
9	U	14	LEU
9	U	15	TYR
9	U	51	ASN
9	U	87	GLN
9	U	98	THR
9	U	100	PHE
10	V	2	ILE
10	V	7	CYS
10	V	13	VAL
10	V	16	ASP
10	V	22	LEU
10	V	42	ARG
10	V	43	TYR
10	V	45	CYS
10	V	63	ASN
11	W	1	MET
11	W	10	PHE
11	W	16	VAL
11	W	17	PRO
11	W	25	SER
11	W	47	ARG
11	W	54	PRO
11	W	57	THR
11	W	72	VAL
11	W	76	GLN
11	W	94	ILE
11	W	101	LEU
12	X	56	ARG
12	X	65	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (162) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	54	ASN
1	A	68	GLN
1	A	83	HIS
1	A	119	ASN
1	A	226	ASN
1	A	298	GLN
1	A	300	HIS
1	A	314	GLN
1	A	340	ASN
1	A	359	ASN
1	A	395	ASN
1	A	436	HIS
1	A	504	GLN
1	A	549	ASN
1	A	655	ASN
1	A	699	GLN
1	A	737	ASN
1	A	742	ASN
1	A	743	ASN
1	A	758	ASN
1	A	768	GLN
1	A	787	HIS
1	A	852	HIS
1	A	859	ASN
1	A	882	GLN
1	A	927	GLN
1	A	936	GLN
1	A	955	ASN
1	A	1367	ASN
1	A	1390	HIS
1	A	1435	GLN
2	B	206	GLN
2	B	227	HIS
2	B	356	HIS
2	B	376	ASN
2	B	426	GLN
2	B	458	ASN
2	B	462	GLN
2	B	492	ASN
2	B	508	HIS
2	B	509	ASN

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Mol	Chain	Res	Type
2	B	511	HIS
2	B	744	HIS
2	B	821	GLN
2	B	835	GLN
2	B	842	ASN
2	B	951	GLN
2	B	975	GLN
2	B	1015	HIS
2	B	1065	GLN
2	B	1161	HIS
2	B	1179	GLN
2	B	1193	GLN
2	B	1211	ASN
3	C	53	ASN
3	C	64	HIS
3	C	167	HIS
4	D	99	ASN
4	D	126	GLN
4	D	138	HIS
4	D	144	GLN
5	E	31	GLN
5	E	100	GLN
5	E	103	ASN
5	E	113	ASN
5	E	142	ASN
5	E	146	HIS
6	F	100	GLN
6	F	104	ASN
7	G	53	ASN
8	H	136	GLN
8	H	138	ASN
9	I	12	ASN
9	I	46	HIS
9	I	90	GLN
10	J	52	HIS
11	K	29	ASN
11	K	65	HIS
11	K	76	GLN
1	M	18	GLN
1	M	54	ASN
1	M	68	GLN
1	M	83	HIS

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Mol	Chain	Res	Type
1	M	119	ASN
1	M	226	ASN
1	M	298	GLN
1	M	300	HIS
1	M	314	GLN
1	M	340	ASN
1	M	359	ASN
1	M	395	ASN
1	M	436	HIS
1	M	491	HIS
1	M	504	GLN
1	M	549	ASN
1	M	655	ASN
1	M	699	GLN
1	M	737	ASN
1	M	742	ASN
1	M	743	ASN
1	M	758	ASN
1	M	768	GLN
1	M	787	HIS
1	M	852	HIS
1	M	859	ASN
1	M	882	GLN
1	M	927	GLN
1	M	936	GLN
1	M	955	ASN
1	M	967	GLN
1	M	1367	ASN
1	M	1390	HIS
1	M	1435	GLN
2	N	206	GLN
2	N	227	HIS
2	N	356	HIS
2	N	376	ASN
2	N	426	GLN
2	N	458	ASN
2	N	462	GLN
2	N	492	ASN
2	N	508	HIS
2	N	509	ASN
2	N	511	HIS
2	N	744	HIS

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Mol	Chain	Res	Type
2	N	821	GLN
2	N	822	ASN
2	N	835	GLN
2	N	842	ASN
2	N	951	GLN
2	N	975	GLN
2	N	1015	HIS
2	N	1065	GLN
2	N	1117	GLN
2	N	1161	HIS
2	N	1179	GLN
2	N	1193	GLN
2	N	1211	ASN
3	O	53	ASN
3	O	64	HIS
3	O	167	HIS
4	P	99	ASN
4	P	126	GLN
4	P	138	HIS
4	P	144	GLN
5	Q	31	GLN
5	Q	100	GLN
5	Q	103	ASN
5	Q	113	ASN
5	Q	142	ASN
5	Q	146	HIS
6	R	100	GLN
7	S	14	HIS
7	S	53	ASN
8	T	136	GLN
8	T	138	ASN
9	U	46	HIS
9	U	90	GLN
10	V	52	HIS
11	W	29	ASN
11	W	65	HIS
11	W	76	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 16 ligands modelled in this entry, 16 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1384/1743 (79%)	-0.00	25 (1%) 67 58	201, 248, 299, 338	0
1	M	1386/1743 (79%)	-0.04	21 (1%) 72 60	209, 256, 307, 345	0
2	B	1073/1227 (87%)	0.06	28 (2%) 57 49	200, 257, 309, 343	0
2	N	1074/1227 (87%)	0.11	20 (1%) 66 56	207, 264, 316, 350	0
3	C	265/304 (87%)	0.16	10 (3%) 44 42	211, 245, 280, 304	0
3	O	265/304 (87%)	0.07	5 (1%) 66 56	219, 253, 287, 312	0
4	D	163/186 (87%)	0.38	8 (4%) 35 36	229, 267, 306, 310	0
4	P	162/186 (87%)	0.13	1 (0%) 85 76	236, 275, 312, 318	0
5	E	214/214 (100%)	-0.13	3 (1%) 73 62	228, 290, 334, 343	0
5	Q	214/214 (100%)	-0.11	3 (1%) 73 62	236, 297, 342, 350	0
6	F	84/155 (54%)	0.08	2 (2%) 59 52	205, 231, 261, 268	0
6	R	84/155 (54%)	0.02	2 (2%) 59 52	213, 239, 268, 276	0
7	G	171/171 (100%)	0.22	3 (1%) 67 58	233, 252, 288, 298	0
7	S	171/171 (100%)	0.27	9 (5%) 32 34	240, 260, 295, 305	0
8	H	130/145 (89%)	-0.12	3 (2%) 61 53	254, 286, 314, 330	0
8	T	130/145 (89%)	0.06	2 (1%) 72 60	261, 294, 322, 338	0
9	I	112/115 (97%)	-0.02	1 (0%) 81 70	246, 286, 317, 326	0
9	U	112/115 (97%)	0.07	1 (0%) 81 70	254, 294, 325, 334	0
10	J	62/72 (86%)	0.19	2 (3%) 50 45	207, 236, 276, 290	0
10	V	62/72 (86%)	0.34	3 (4%) 35 37	214, 244, 283, 298	0
11	K	113/118 (95%)	-0.00	3 (2%) 56 48	219, 246, 269, 294	0
11	W	113/118 (95%)	-0.09	3 (2%) 56 48	226, 253, 276, 301	0
12	L	46/73 (63%)	0.21	1 (2%) 62 53	242, 315, 329, 332	0
12	X	46/73 (63%)	0.28	0 100 100	249, 322, 337, 339	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
All	All	7636/9046 (84%)	0.05	159 (2%)	63	54	200, 258, 315, 350	0

All (159) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	N	692	GLY	6.3
2	N	626	VAL	5.2
11	W	101	LEU	5.1
11	K	101	LEU	4.8
1	M	1047	VAL	4.8
1	M	471	LEU	4.7
7	S	99	PHE	4.6
4	D	128	LEU	4.4
7	S	160	ILE	4.0
3	O	41	PRO	4.0
3	C	78	GLU	3.9
7	S	72	VAL	3.8
1	A	510	LEU	3.7
8	T	26	ILE	3.7
2	B	348	ILE	3.7
2	B	626	VAL	3.6
1	M	609	VAL	3.6
6	R	94	LEU	3.6
11	W	113	ASN	3.6
1	M	1120	VAL	3.5
1	M	390	THR	3.5
7	S	11	LEU	3.5
2	N	421	ILE	3.5
2	B	1092	TYR	3.4
11	W	98	LEU	3.4
2	B	958	GLN	3.4
7	S	9	LEU	3.4
2	N	238	GLY	3.4
1	A	609	VAL	3.3
2	N	454	LEU	3.3
3	C	66	LEU	3.3
2	N	307	LYS	3.2
2	B	1130	PHE	3.1
2	B	352	GLU	3.1
2	B	394	PHE	3.1
2	B	1031	LEU	3.1
3	C	69	ILE	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	1047	VAL	3.1
2	B	1055	VAL	3.0
2	N	892	LYS	3.0
2	B	836	GLU	3.0
1	M	836	GLY	3.0
2	B	1052	VAL	3.0
3	C	62	ILE	2.9
1	A	695	ILE	2.9
2	N	183	MET	2.9
8	H	26	ILE	2.9
7	S	101	ALA	2.9
2	N	640	ASP	2.9
1	M	561	VAL	2.8
2	N	1052	VAL	2.8
2	B	841	MET	2.8
1	M	1043	ALA	2.8
2	N	30	LEU	2.8
1	M	1051	ILE	2.7
6	R	93	ILE	2.7
1	A	119	ASN	2.7
2	B	318	ASP	2.7
6	F	120	ILE	2.7
4	P	178	LEU	2.7
2	B	1030	LEU	2.6
1	A	699	GLN	2.6
2	B	994	TYR	2.6
3	C	145	CYS	2.6
3	O	145	CYS	2.6
8	H	44	ASN	2.6
8	T	44	ASN	2.6
6	F	93	ILE	2.6
2	B	823	ALA	2.6
1	A	551	LEU	2.5
1	A	842	LEU	2.5
1	M	838	ILE	2.5
5	E	148	LEU	2.5
4	D	80	SER	2.5
11	K	105	PHE	2.5
2	N	836	GLU	2.5
10	V	33	ASP	2.5
5	Q	148	LEU	2.5
2	B	851	PHE	2.5

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Mol	Chain	Res	Type	RSRZ
1	M	120	PRO	2.5
3	C	139	ASP	2.4
1	A	1046	TRP	2.4
5	E	146	HIS	2.4
1	A	853	TYR	2.4
1	A	1427	VAL	2.4
1	A	1084	ASN	2.4
1	A	559	GLY	2.4
7	G	26	LEU	2.4
2	B	1027	ILE	2.4
5	Q	153	ILE	2.4
7	S	107	ASN	2.4
1	M	630	LEU	2.4
2	B	695	GLU	2.3
4	D	124	VAL	2.3
9	U	82	ASP	2.3
2	B	959	GLU	2.3
1	M	502	LEU	2.3
1	A	791	ASP	2.3
8	H	18	GLY	2.3
1	M	119	ASN	2.3
2	N	90	THR	2.3
2	B	1151	LEU	2.3
11	K	67	LEU	2.3
7	G	85	GLU	2.2
1	M	1433	LEU	2.2
5	E	141	VAL	2.2
2	N	506	GLN	2.2
1	M	340	ASN	2.2
7	S	94	VAL	2.2
3	C	248	ILE	2.2
4	D	99	ASN	2.2
2	B	1011	ILE	2.2
1	M	984	THR	2.2
3	O	143	LEU	2.2
7	S	98	GLY	2.2
1	M	1384	LEU	2.2
1	A	393	VAL	2.2
3	C	140	GLN	2.2
3	O	66	LEU	2.1
2	B	1034	VAL	2.1
1	A	726	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	1362	ASP	2.1
2	B	79	PHE	2.1
10	J	49	VAL	2.1
1	A	522	MET	2.1
10	V	21	TYR	2.1
2	N	157	HIS	2.1
7	G	107	ASN	2.1
1	A	1267	GLU	2.1
2	N	534	LEU	2.1
1	M	1046	TRP	2.1
2	N	1027	ILE	2.1
3	O	248	ILE	2.1
4	D	140	PHE	2.1
2	B	692	GLY	2.1
3	C	186	LEU	2.1
2	N	310	ILE	2.1
1	M	50	GLU	2.1
2	B	1116	ARG	2.1
1	A	984	THR	2.1
1	A	578	LEU	2.0
4	D	171	LEU	2.0
10	V	40	LEU	2.0
2	N	394	PHE	2.0
4	D	60	ILE	2.0
9	I	97	MET	2.0
10	J	40	LEU	2.0
2	B	756	ILE	2.0
4	D	84	ILE	2.0
12	L	37	ALA	2.0
2	B	317	GLN	2.0
1	M	1214	VAL	2.0
1	A	1342	LEU	2.0
1	A	1051	ILE	2.0
3	C	84	ASP	2.0
5	Q	146	HIS	2.0
1	A	109	ASN	2.0
2	N	1031	LEU	2.0
1	A	663	PHE	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
13	ZN	I	202	1/1	0.68	0.10	306,306,306,306	0
13	ZN	X	101	1/1	0.79	0.08	278,278,278,278	0
13	ZN	I	201	1/1	0.81	0.11	258,258,258,258	0
13	ZN	U	202	1/1	0.83	0.10	314,314,314,314	0
13	ZN	M	1801	1/1	0.89	0.06	249,249,249,249	0
13	ZN	A	1801	1/1	0.93	0.05	241,241,241,241	0
13	ZN	U	201	1/1	0.95	0.07	266,266,266,266	0
13	ZN	L	101	1/1	0.95	0.13	270,270,270,270	0
13	ZN	B	1301	1/1	0.95	0.04	228,228,228,228	0
13	ZN	M	1802	1/1	0.96	0.10	224,224,224,224	0
13	ZN	A	1802	1/1	0.97	0.11	216,216,216,216	0
13	ZN	O	401	1/1	0.99	0.03	238,238,238,238	0
13	ZN	J	101	1/1	0.99	0.06	234,234,234,234	0
13	ZN	C	401	1/1	0.99	0.04	230,230,230,230	0
13	ZN	V	101	1/1	0.99	0.06	242,242,242,242	0
13	ZN	N	1301	1/1	0.99	0.05	236,236,236,236	0

6.5 Other polymers [i](#)

There are no such residues in this entry.