Full wwPDB X-ray Structure Validation Report (i)

Aug 5, 2026 – 03:45 PM EDT

PDB ID	:	2PMZ / pdb_00002pmz
Title	:	Archaeal RNA polymerase from Sulfolobus solfataricus
Authors	:	Murakami, K.S.
Deposited on	:	2007-04-23
Resolution	:	3.40 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 (i) 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 (1)) were used in the production of this report:

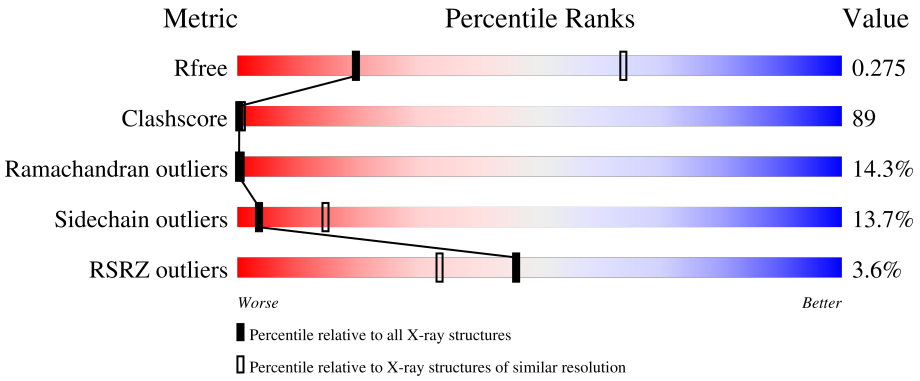
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

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 3.40 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1001 (3.44-3.36)
Clashscore	190562	1022 (3.44-3.36)
Ramachandran outliers	187476	1012 (3.44-3.36)
Sidechain outliers	187428	1012 (3.44-3.36)
RSRZ outliers	180081	1001 (3.44-3.36)

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 <=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	880	2% 14% 50% 20% 12%
1	Q	880	3% 14% 51% 20% 12%
2	C	392	2% 9% 39% 20% 29%
2	G	392	3% 8% 39% 21% 29%
3	B	1124	3% 14% 57% 23%

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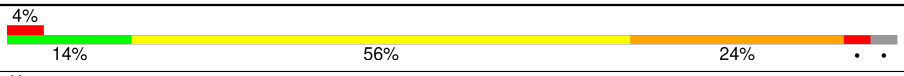
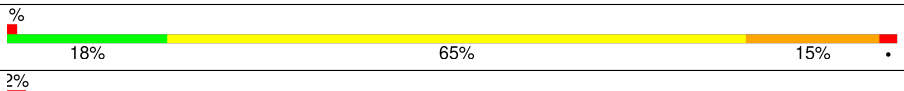
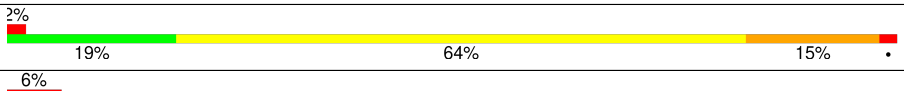
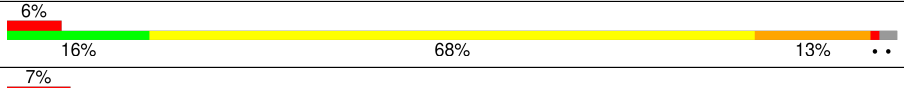
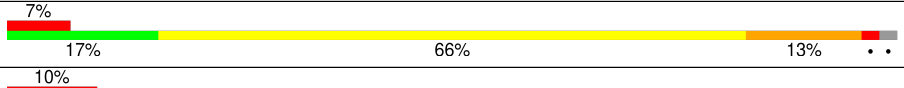
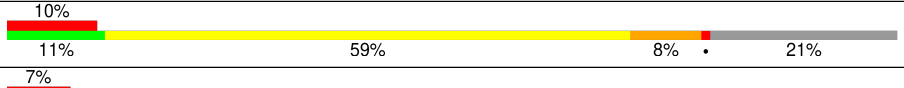
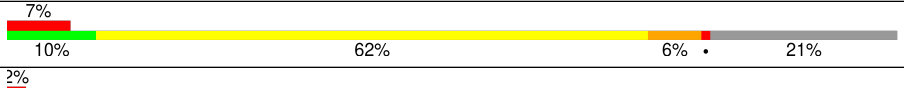
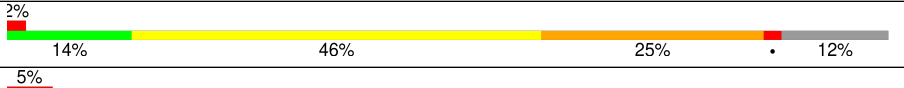
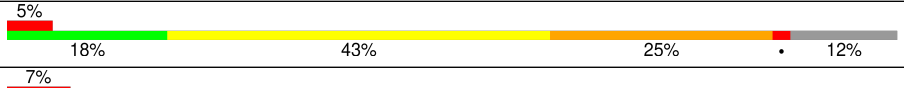
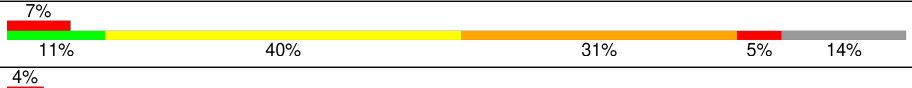
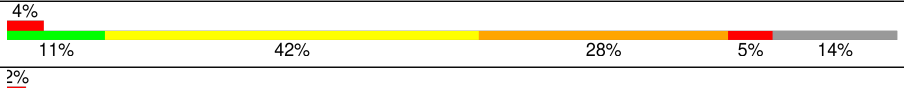
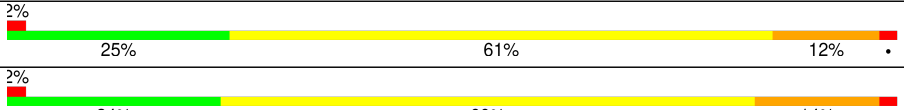
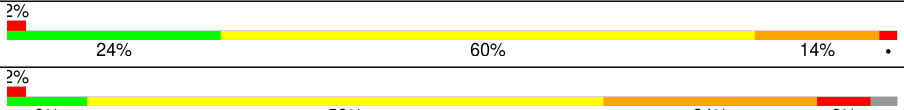
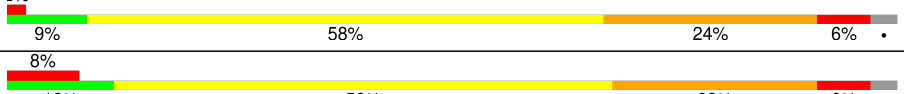
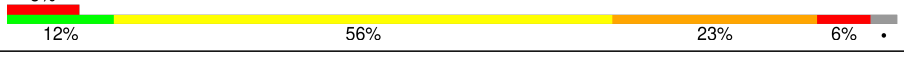
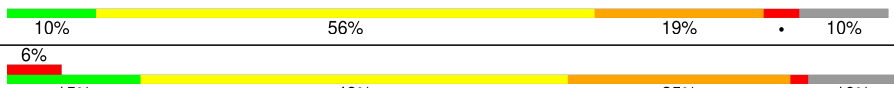
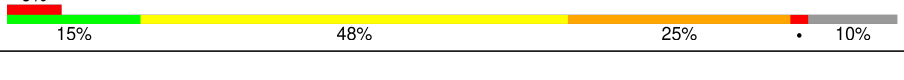
Mol	Chain	Length	Quality of chain
3	R	1124	
4	D	265	
4	S	265	
5	E	180	
5	T	180	
6	F	113	
6	U	113	
7	H	84	
7	V	84	
8	K	95	
8	W	95	
9	L	92	
9	X	92	
10	N	66	
10	Y	66	
11	P	48	
11	Z	48	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	F3S	D	1001	-	-	X	-
14	F3S	S	1001	-	-	X	-

2 Entry composition (i)

There are 14 unique types of molecules in this entry. The entry contains 48122 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 A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	776	Total	C	N	O	S	0	0	0
			6173	3936	1081	1135	21			
1	Q	776	Total	C	N	O	S	0	0	0
			6173	3936	1081	1135	21			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	279	Total	C	N	O	S	0	0	0
			2169	1376	375	412	6			
2	G	279	Total	C	N	O	S	0	0	0
			2169	1376	375	412	6			

- Molecule 3 is a protein called DNA-directed RNA polymerase subunit B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	B	1090	Total	C	N	O	S	0	0	0
			8645	5483	1529	1602	31			
3	R	1090	Total	C	N	O	S	0	0	0
			8645	5483	1529	1602	31			

- Molecule 4 is a protein called DNA-directed RNA polymerase subunit D.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	264	Total	C	N	O	S	0	0	0
			2114	1355	342	403	14			
4	S	264	Total	C	N	O	S	0	0	0
			2114	1355	342	403	14			

- Molecule 5 is a protein called DNA-directed RNA polymerase subunit E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	176	Total	C	N	O	S	0	0	0
			1402	903	236	259	4			
5	T	176	Total	C	N	O	S	0	0	0
			1402	903	236	259	4			

- Molecule 6 is a protein called DNA-directed RNA polymerase subunit F.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	89	Total	C	N	O	S	0	0	0
			694	433	115	142	4			
6	U	89	Total	C	N	O	S	0	0	0
			694	433	115	142	4			

- Molecule 7 is a protein called DNA-directed RNA polymerase subunit H.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
7	H	74	Total	C	N	O	0	0	0
			611	397	109	105			
7	V	74	Total	C	N	O	0	0	0
			611	397	109	105			

- Molecule 8 is a protein called DNA-directed RNA polymerase subunit K.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	K	82	Total	C	N	O	S	0	0	0
			658	420	121	116	1			
8	W	82	Total	C	N	O	S	0	0	0
			658	420	121	116	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	L	92	Total	C	N	O	S	0	0	0
			723	459	121	141	2			
9	X	92	Total	C	N	O	S	0	0	0
			723	459	121	141	2			

- Molecule 10 is a protein called DNA-directed RNA polymerase subunit N.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	N	64	Total	C	N	O	S	0	0	0
			514	326	94	88	6			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	Y	64	Total	C	N	O	S	0	0	0
			514	326	94	88	6			

- Molecule 11 is a protein called DNA-directed RNA polymerase subunit P.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	P	43	Total	C	N	O	S	0	0	0
			346	230	58	53	5			
11	Z	43	Total	C	N	O	S	0	0	0
			346	230	58	53	5			

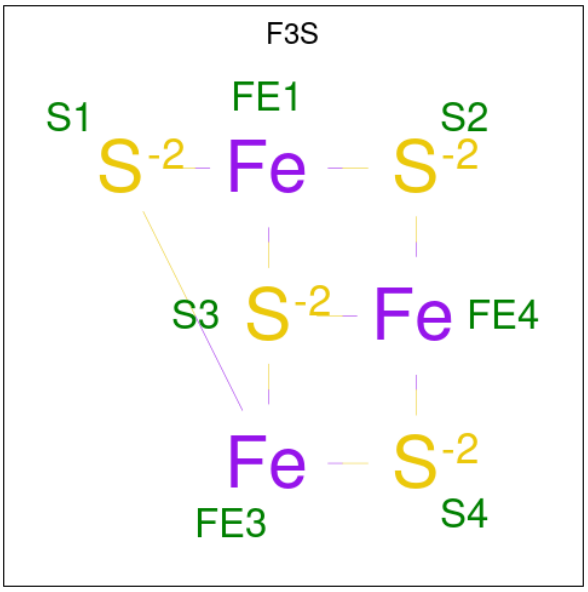
- Molecule 12 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
12	A	1	Total	Zn	0	0
			1	1		
12	B	1	Total	Zn	0	0
			1	1		
12	N	1	Total	Zn	0	0
			1	1		
12	P	1	Total	Zn	0	0
			1	1		
12	Q	1	Total	Zn	0	0
			1	1		
12	R	1	Total	Zn	0	0
			1	1		
12	Y	1	Total	Zn	0	0
			1	1		
12	Z	1	Total	Zn	0	0
			1	1		

- Molecule 13 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
13	A	1	Total	Mg	0	0
			1	1		
13	Q	1	Total	Mg	0	0
			1	1		

- Molecule 14 is FE3-S4 CLUSTER (CCD ID: F3S) (formula: Fe_3S_4).



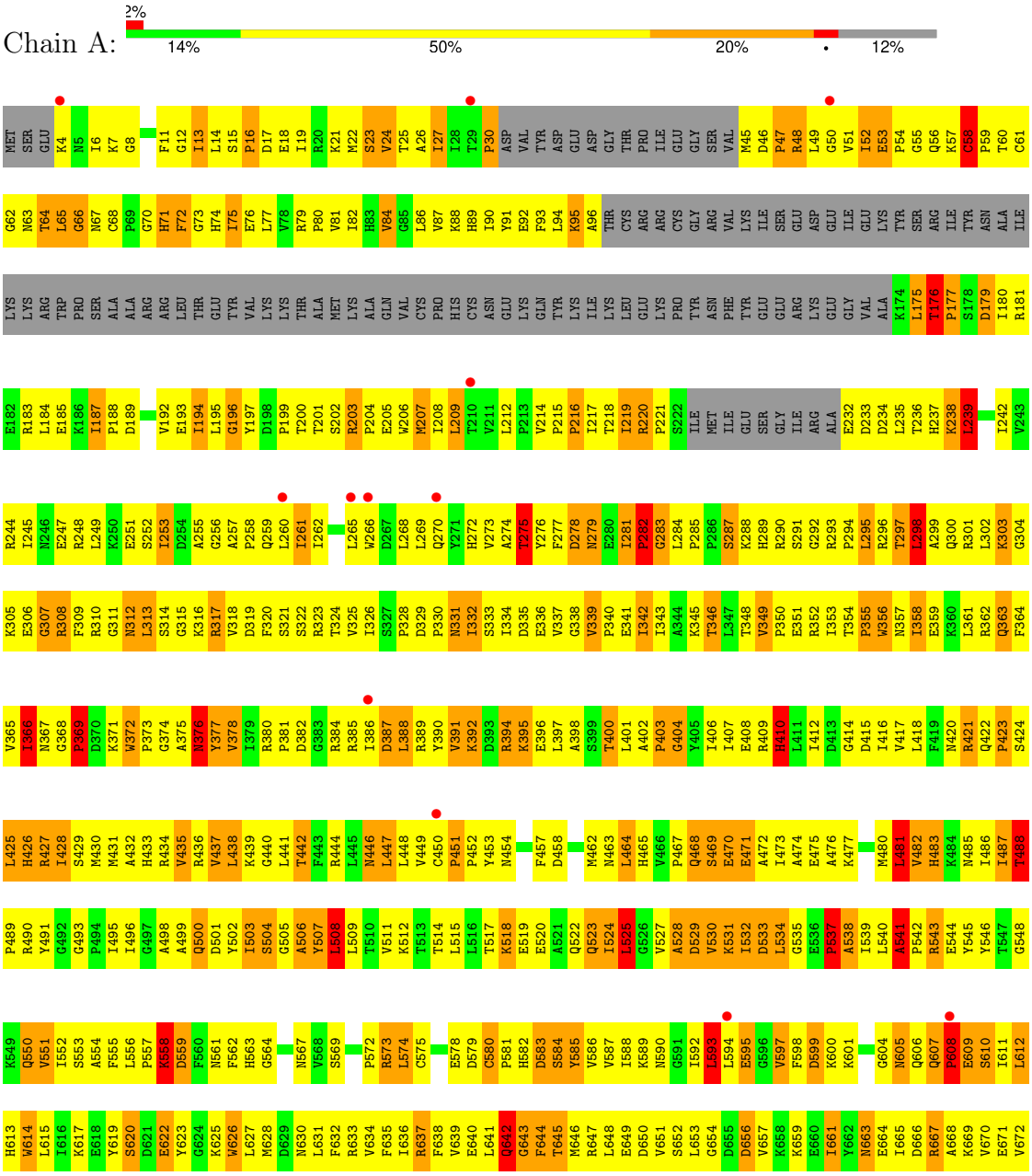
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
14	D	1	Total Fe S 7 3 4	0	0
14	S	1	Total Fe S 7 3 4	0	0

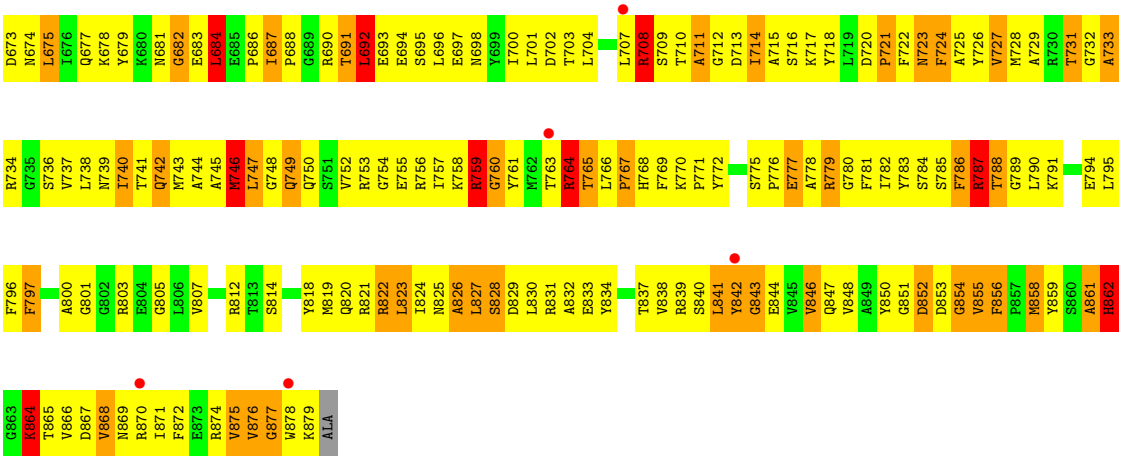
3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and 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 A

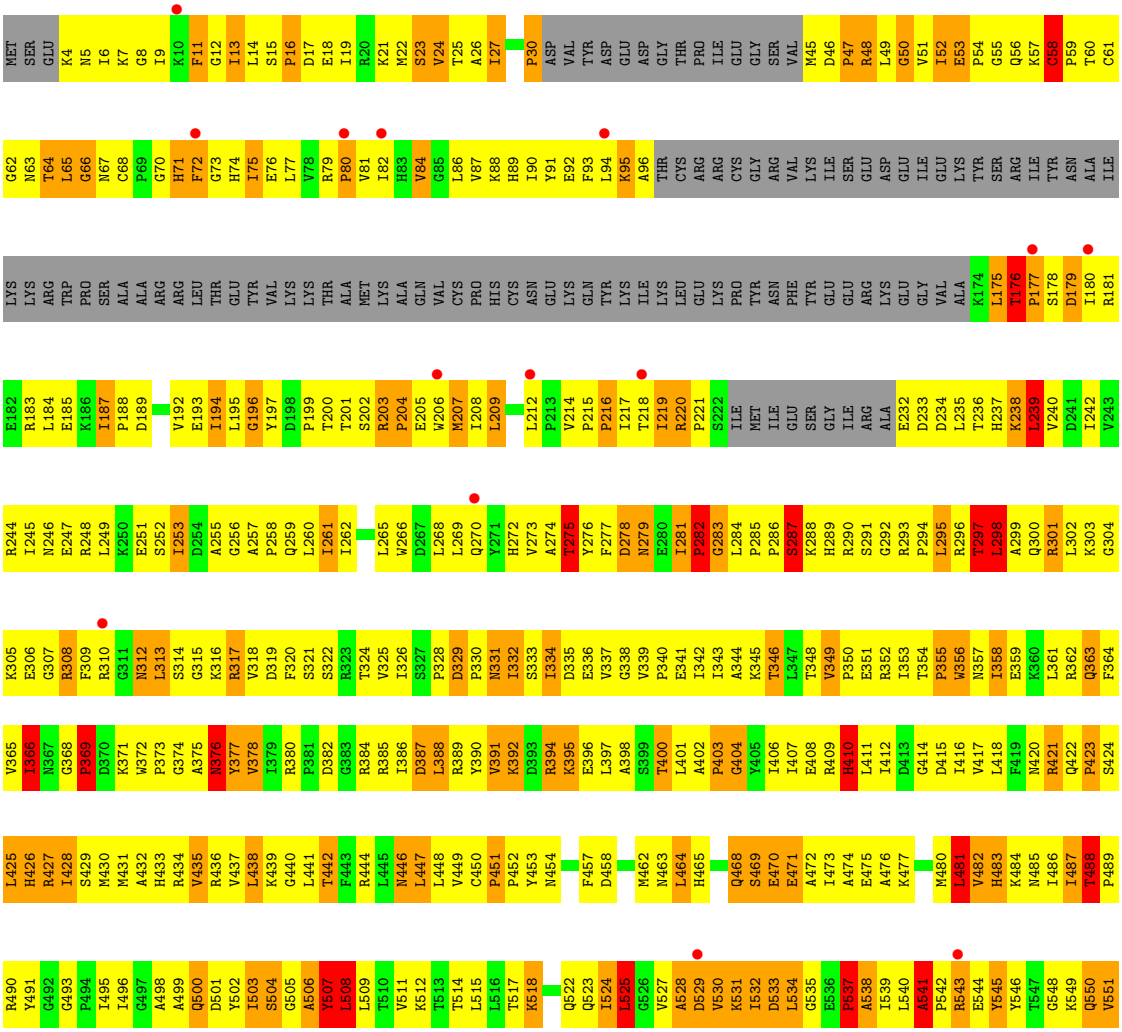
Chain A:

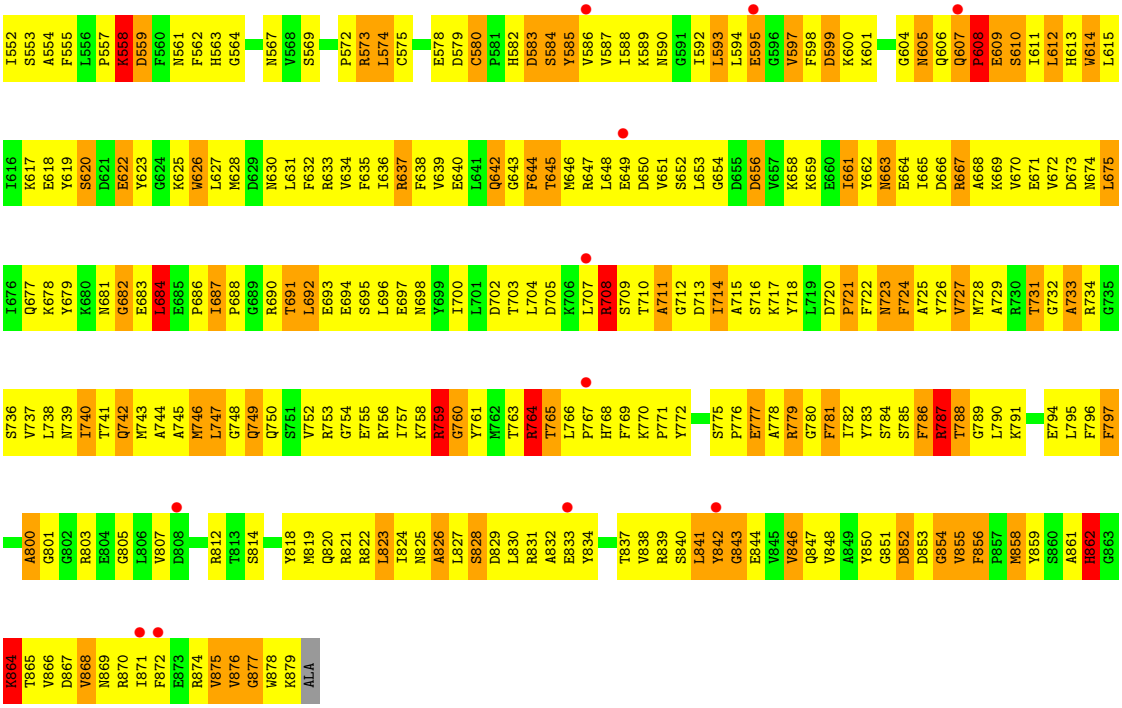




• Molecule 1: DNA-directed RNA polymerase subunit A

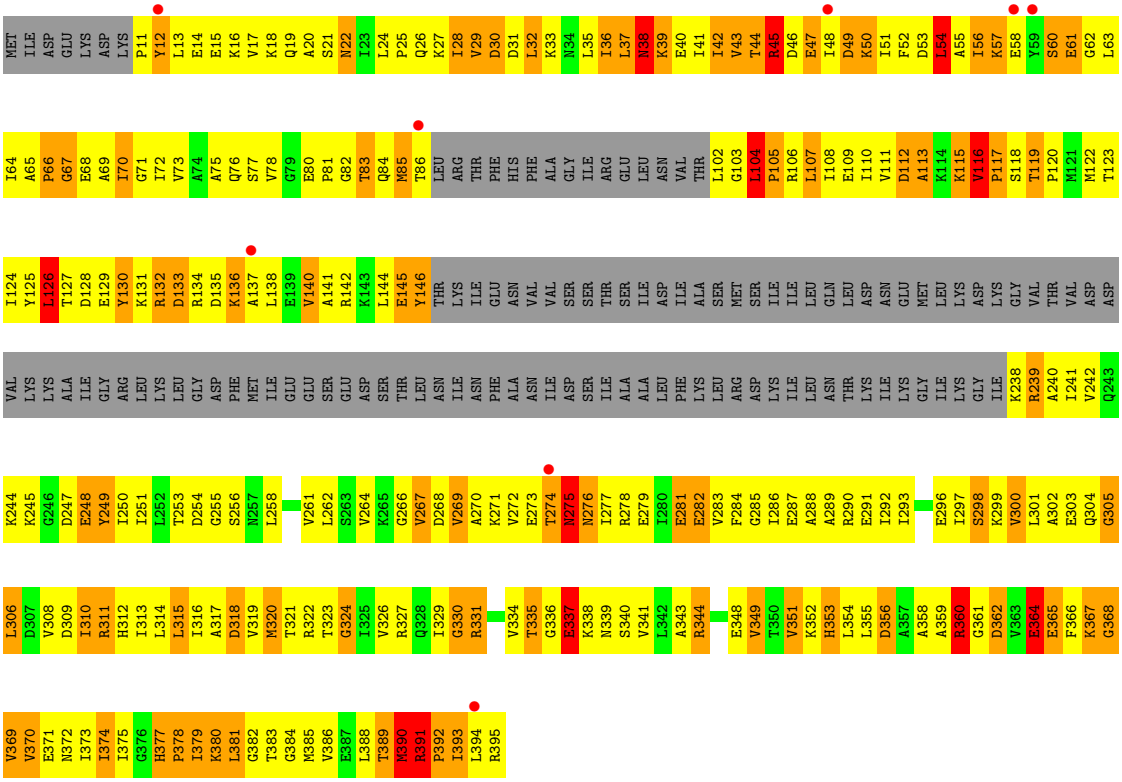
Chain Q:





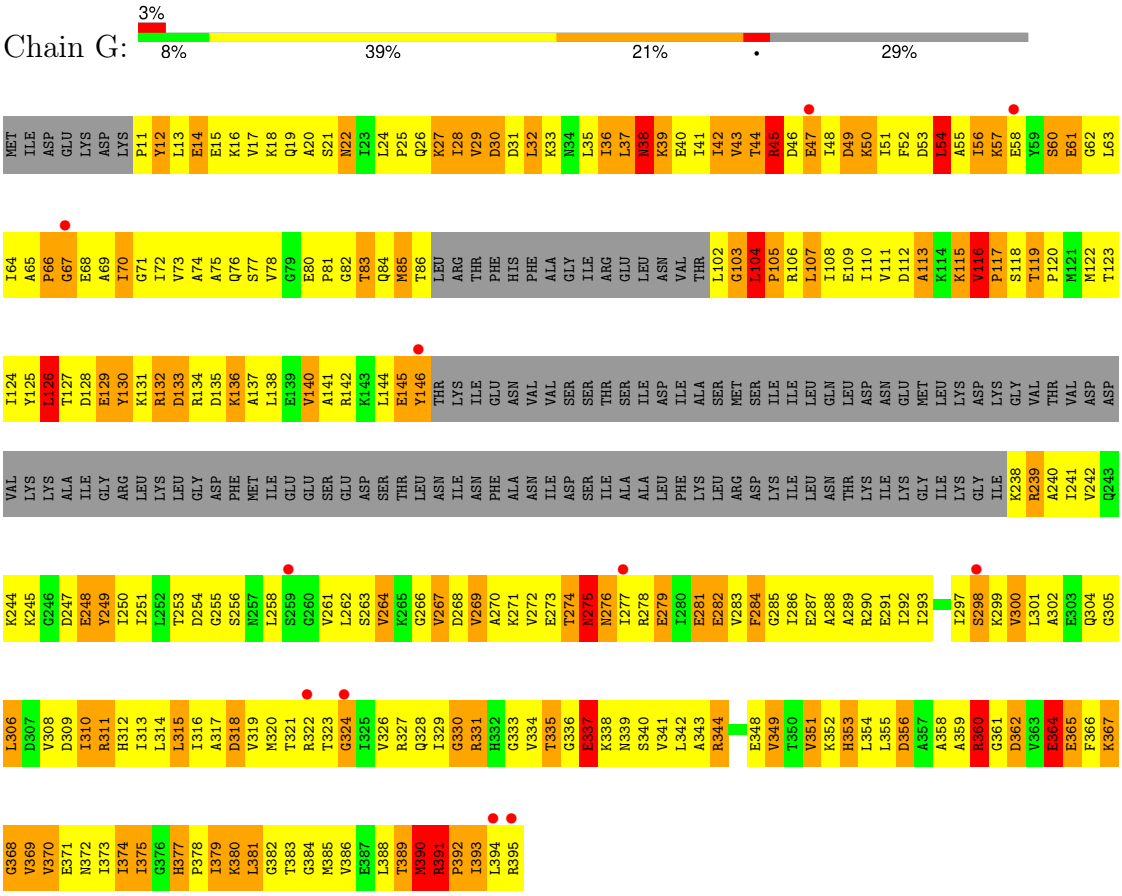
• Molecule 2: DNA-directed RNA polymerase subunit A"

Chain C:



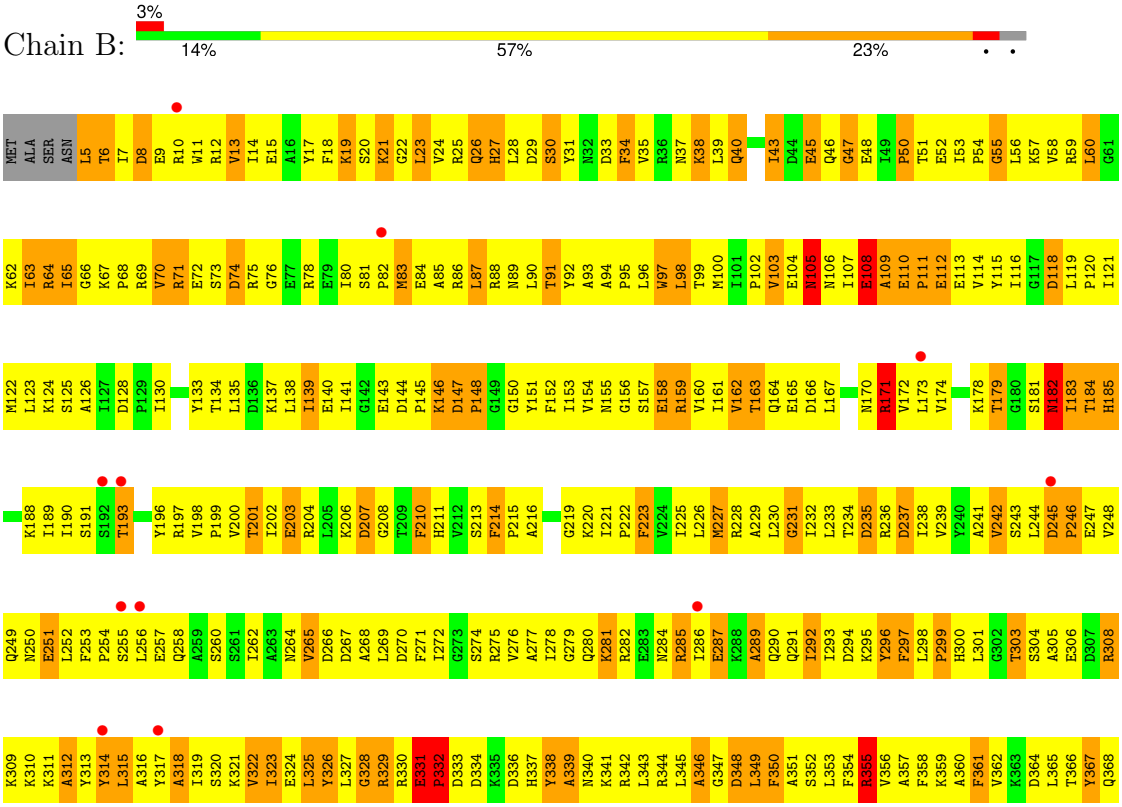
• Molecule 2: DNA-directed RNA polymerase subunit A"

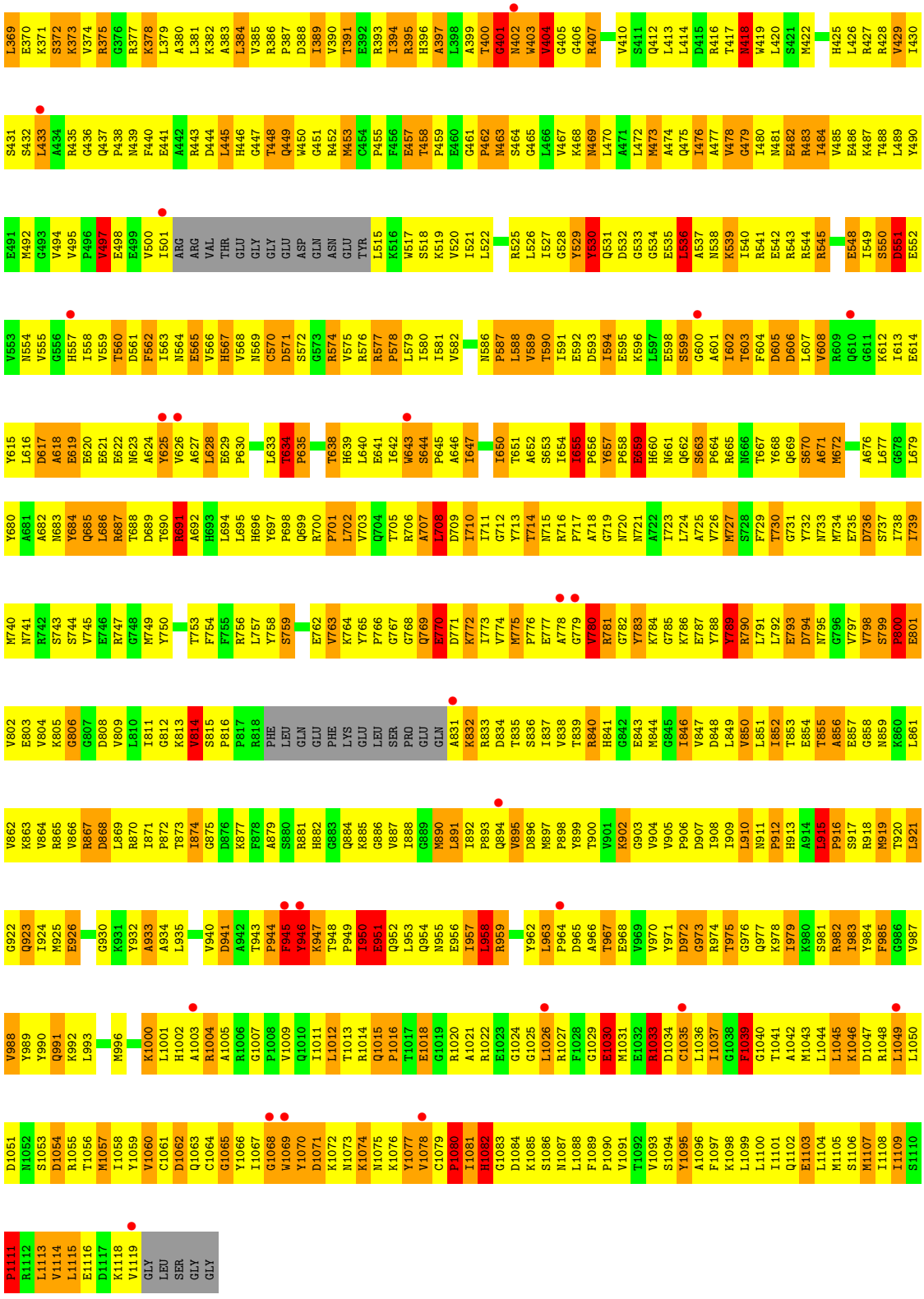
Chain G:



• Molecule 3: DNA-directed RNA polymerase subunit B

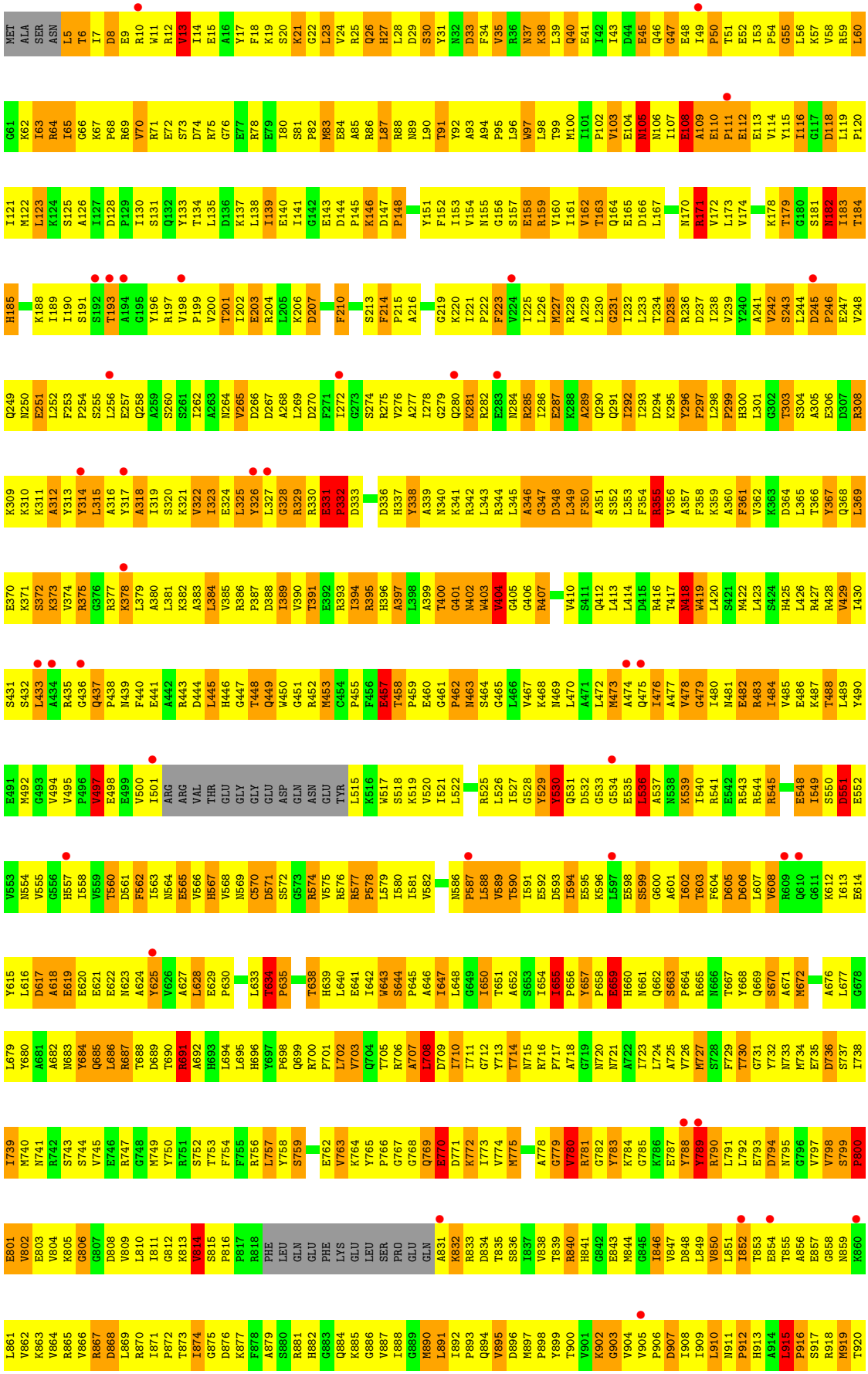
Chain B:

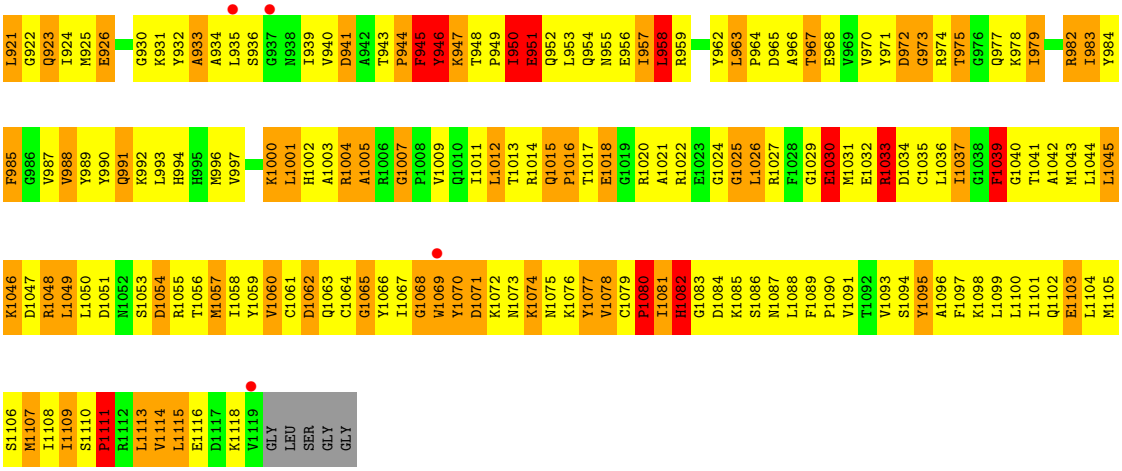




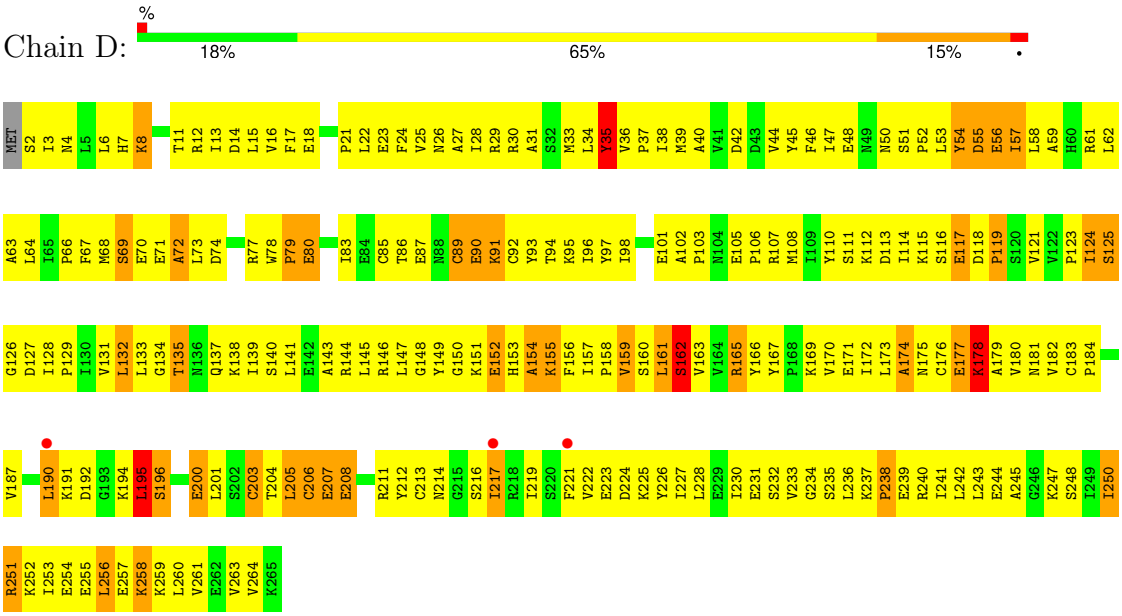
• Molecule 3: DNA-directed RNA polymerase subunit B

Chain R:

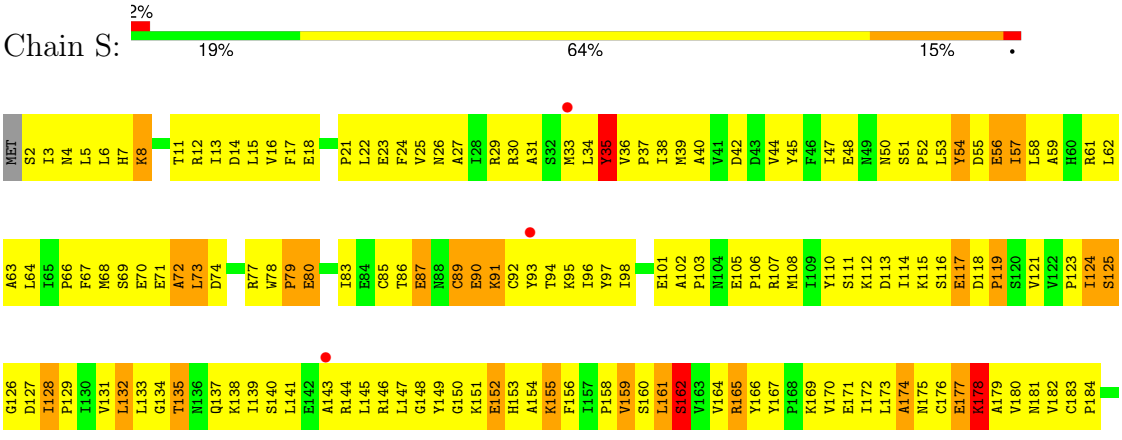


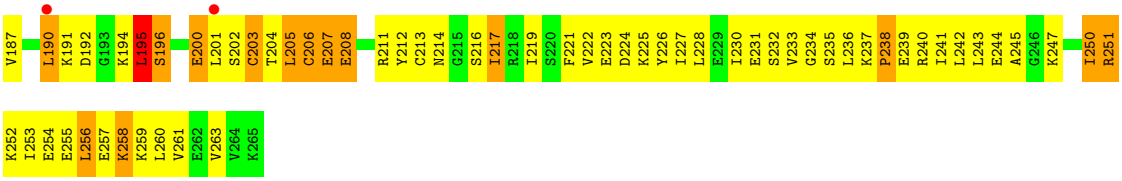


• Molecule 4: DNA-directed RNA polymerase subunit D

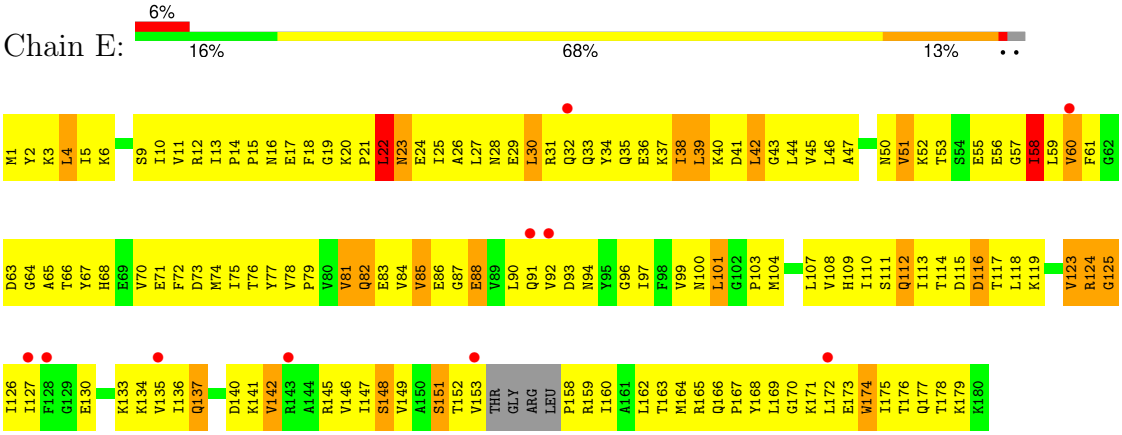


• Molecule 4: DNA-directed RNA polymerase subunit D

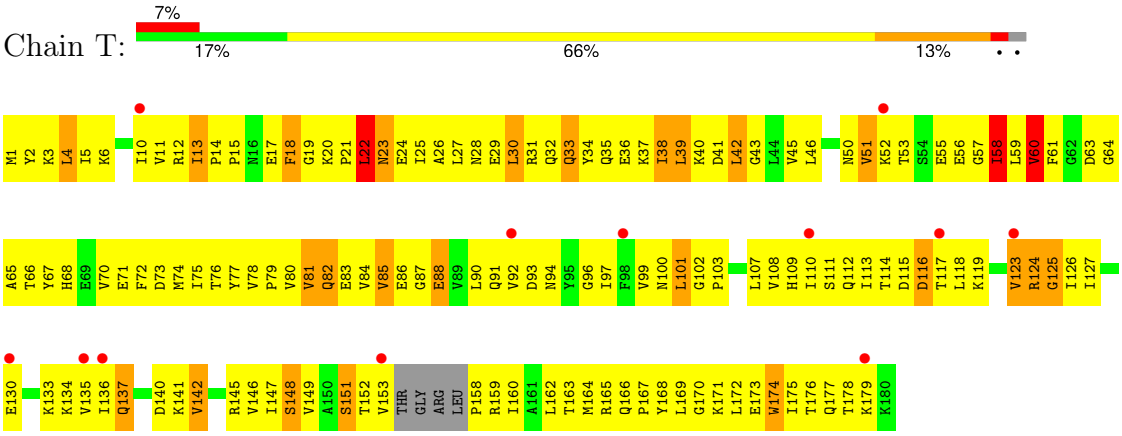




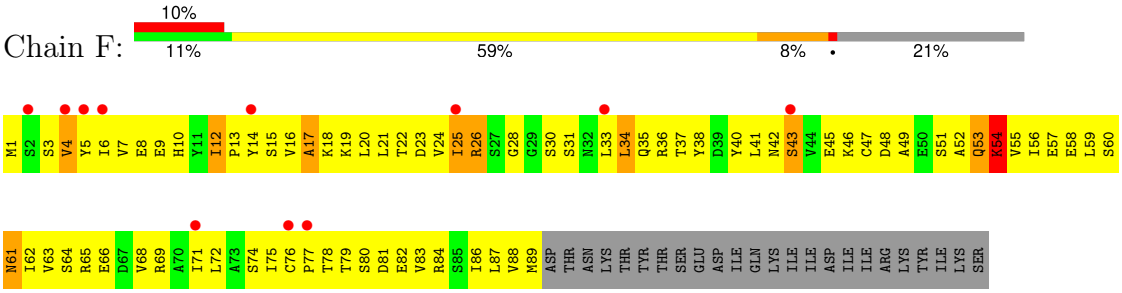
• Molecule 5: DNA-directed RNA polymerase subunit E



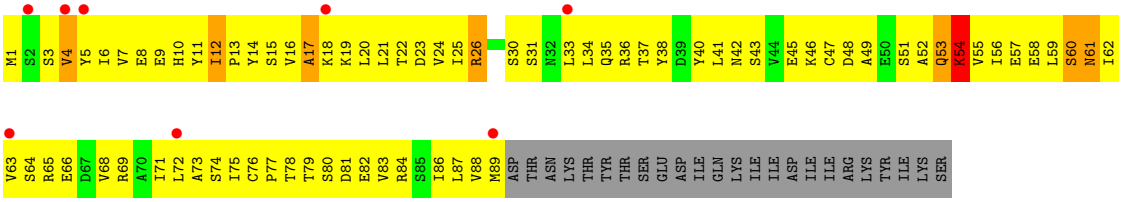
• Molecule 5: DNA-directed RNA polymerase subunit E



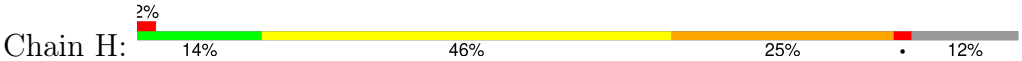
• Molecule 6: DNA-directed RNA polymerase subunit F

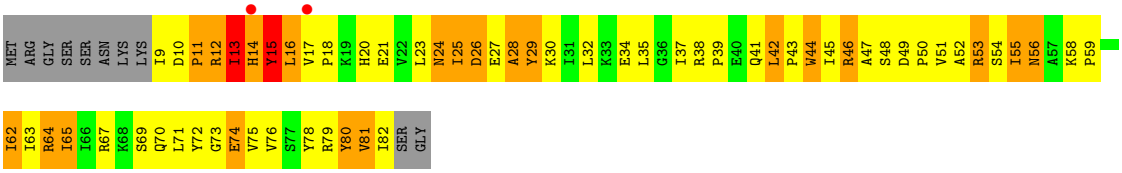


• Molecule 6: DNA-directed RNA polymerase subunit F

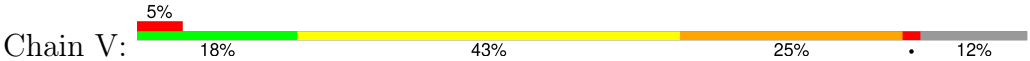


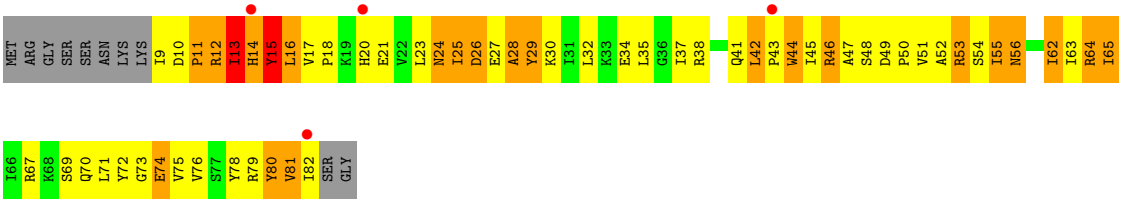
• Molecule 7: DNA-directed RNA polymerase subunit H



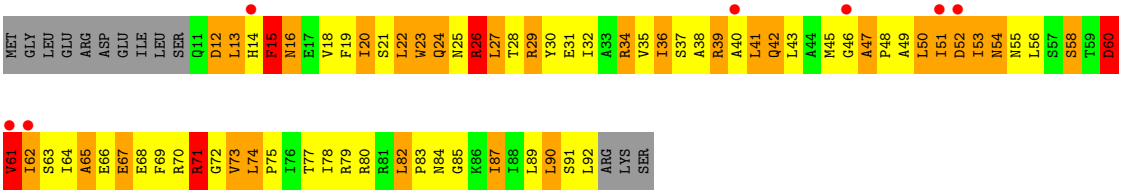


• Molecule 7: DNA-directed RNA polymerase subunit H

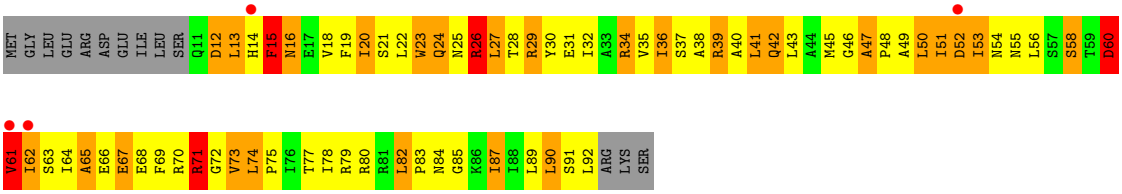




• Molecule 8: DNA-directed RNA polymerase subunit K

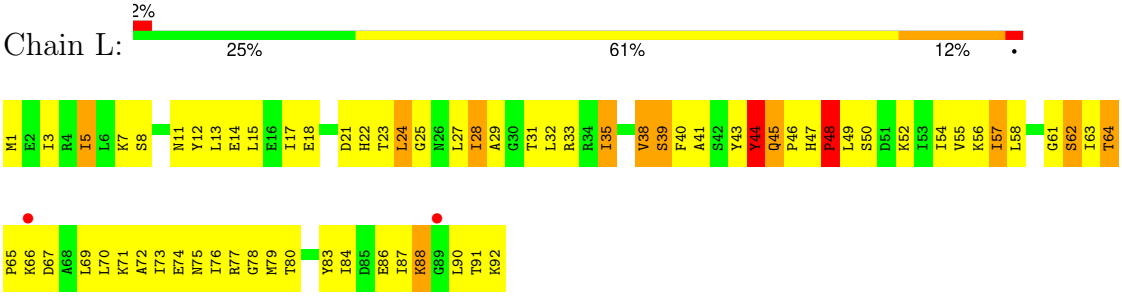


• Molecule 8: DNA-directed RNA polymerase subunit K



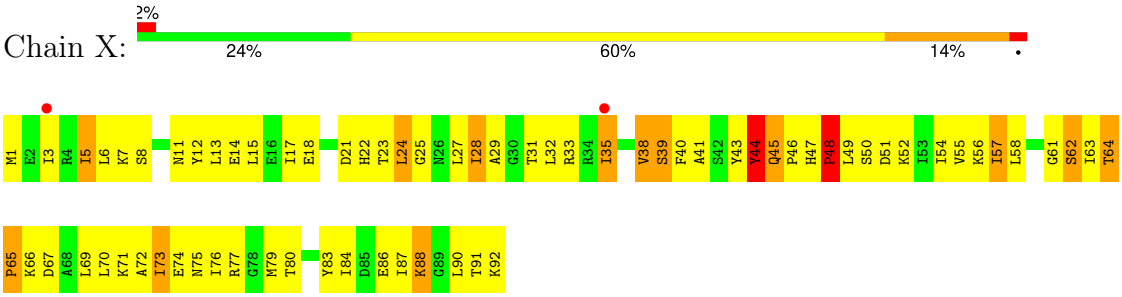
• Molecule 9: DNA-directed RNA polymerase subunit L

Chain L:



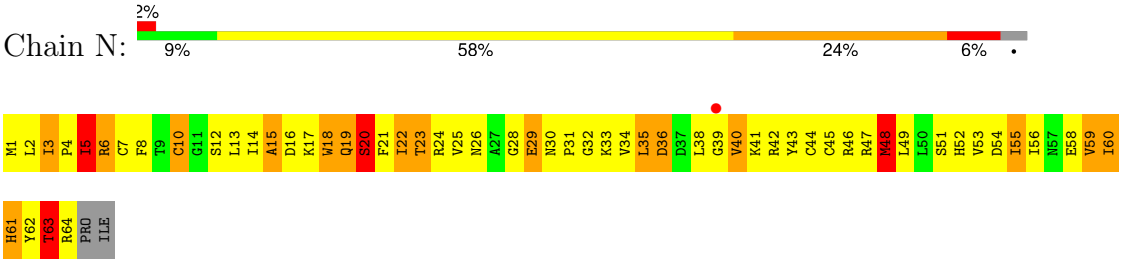
• Molecule 9: DNA-directed RNA polymerase subunit L

Chain X:



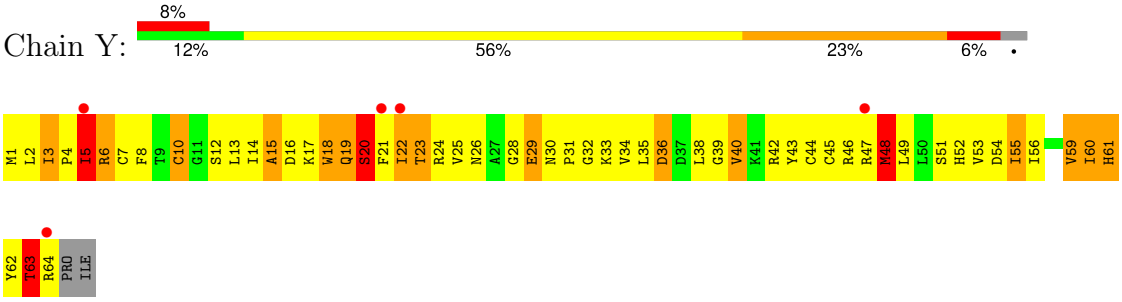
• Molecule 10: DNA-directed RNA polymerase subunit N

Chain N:



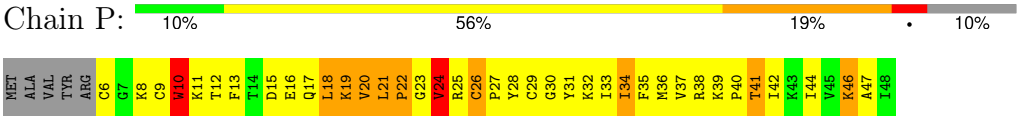
• Molecule 10: DNA-directed RNA polymerase subunit N

Chain Y:



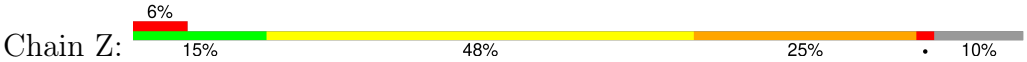
• Molecule 11: DNA-directed RNA polymerase subunit P

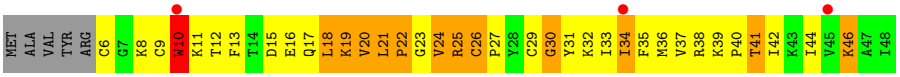
Chain P:



• Molecule 11: DNA-directed RNA polymerase subunit P

Chain Z:




MET
ALA
VAL
TYR
ARG
C6
G7
K8
C9
W10
K11
T12
F13
T14
D15
E16
Q17
L18
K19
V20
L21
P22
G23
V24
R25
C26
P27
Y28
C29
G30
Y31
K32
I33
I34
F35
M36
V37
R38
K39
P40
T41
I42
K43
I44
V45
K46
A47
I48

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	125.82Å 201.24Å 196.05Å 90.00° 100.92° 90.00°	Depositor
Resolution (Å)	39.79 – 3.40 39.79 – 3.40	Depositor EDS
% Data completeness (in resolution range)	80.4 (39.79-3.40) 80.3 (39.79-3.40)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.73 (at 3.40Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.274 , 0.343 0.271 , 0.275	Depositor DCC
R_{free} test set	5323 reflections (4.05%)	wwPDB-VP
Wilson B-factor (Å^2)	79.3	Xtriage
Anisotropy	0.345	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.30 , 90.3	EDS
L-test for twinning[2]	$< \|L\| > = 0.41$, $< L^2 > = 0.23$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.86	EDS
Total number of atoms	48122	wwPDB-VP
Average B, all atoms (Å^2)	93.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.66% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ 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, MG, F3S

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	0.62	1/6306 (0.0%)	1.21	71/8539 (0.8%)
1	Q	0.58	0/6306	1.20	67/8539 (0.8%)
2	C	0.62	0/2189	1.24	25/2947 (0.8%)
2	G	0.59	0/2189	1.22	23/2947 (0.8%)
3	B	0.59	0/8810	1.22	101/11921 (0.8%)
3	R	0.57	0/8810	1.22	104/11921 (0.9%)
4	D	0.49	0/2152	1.02	11/2911 (0.4%)
4	S	0.46	0/2152	1.00	8/2911 (0.3%)
5	E	0.48	0/1423	1.03	5/1919 (0.3%)
5	T	0.47	0/1423	1.02	7/1919 (0.4%)
6	F	0.46	0/701	1.06	7/949 (0.7%)
6	U	0.46	0/701	1.05	7/949 (0.7%)
7	H	0.53	0/625	1.15	5/848 (0.6%)
7	V	0.50	0/625	1.13	5/848 (0.6%)
8	K	0.68	0/667	1.22	10/903 (1.1%)
8	W	0.65	0/667	1.21	10/903 (1.1%)
9	L	0.51	0/733	1.12	4/986 (0.4%)
9	X	0.47	0/733	1.11	4/986 (0.4%)
10	N	0.50	0/523	1.05	4/705 (0.6%)
10	Y	0.49	0/523	1.03	3/705 (0.4%)
11	P	0.55	0/354	1.08	4/475 (0.8%)
11	Z	0.56	0/354	1.04	3/475 (0.6%)
All	All	0.57	1/48966 (0.0%)	1.17	488/66206 (0.7%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	B	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	R	0	1
4	D	0	1
4	S	0	1
All	All	0	4

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	339	VAL	CA-C	5.04	1.56	1.52

All (488) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	B	45	GLU	N-CA-C	-12.90	97.46	113.97
3	R	45	GLU	N-CA-C	-12.71	97.70	113.97
2	C	49	ASP	N-CA-C	-11.82	98.11	111.82
1	A	329	ASP	CA-C-N	11.45	130.88	118.97
1	A	329	ASP	C-N-CA	11.45	130.88	118.97
1	Q	329	ASP	CA-C-N	11.38	130.80	118.97
1	Q	329	ASP	C-N-CA	11.38	130.80	118.97
4	D	28	ILE	N-CA-C	-11.30	102.09	111.81
2	G	49	ASP	N-CA-C	-11.16	98.87	111.82
2	C	29	VAL	N-CA-C	-10.80	100.43	111.88
3	B	1039	PHE	N-CA-C	-10.41	96.50	110.55
1	Q	854	GLY	N-CA-C	-10.38	100.05	115.00
3	B	772	LYS	N-CA-C	10.14	123.15	108.86
2	C	27	LYS	N-CA-C	-10.04	102.32	112.97
2	G	27	LYS	N-CA-C	-9.97	102.41	112.97
2	G	29	VAL	N-CA-C	-9.97	101.32	111.88
2	C	283	VAL	N-CA-C	9.82	120.35	110.82
3	R	772	LYS	N-CA-C	9.81	122.69	108.86
1	A	366	ILE	N-CA-C	-9.70	102.43	111.45
1	A	854	GLY	N-CA-C	-9.63	101.13	115.00
3	R	565	GLU	N-CA-C	9.54	123.95	110.50
3	B	856	ALA	N-CA-C	-9.51	101.45	112.87
1	A	643	GLY	N-CA-C	9.49	120.40	111.67
1	Q	740	ILE	N-CA-C	-9.44	99.29	111.09
1	Q	366	ILE	N-CA-C	-9.43	102.68	111.45
3	R	1039	PHE	N-CA-C	-9.39	97.87	110.55
1	A	400	THR	N-CA-C	-9.35	101.17	111.36
3	B	565	GLU	N-CA-C	9.23	123.52	110.50
2	G	105	PRO	N-CA-C	-9.20	101.85	114.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	W	65	ALA	N-CA-C	-9.18	102.21	113.50
1	A	620	SER	N-CA-C	9.13	122.77	110.35
1	A	740	ILE	N-CA-C	-9.10	99.71	111.09
8	K	65	ALA	N-CA-C	-9.09	102.33	113.97
2	G	283	VAL	N-CA-C	8.99	119.54	110.82
2	C	105	PRO	N-CA-C	-8.98	102.14	114.27
1	Q	643	GLY	N-CA-C	8.83	119.80	111.67
1	A	331	ASN	N-CA-C	-8.82	98.18	110.35
3	R	8	ASP	N-CA-C	-8.81	101.97	112.89
1	Q	400	THR	N-CA-C	-8.78	101.79	111.36
3	R	856	ALA	N-CA-C	-8.78	101.67	112.38
3	R	1025	GLY	N-CA-C	8.69	121.89	112.33
3	B	8	ASP	N-CA-C	-8.65	102.17	112.89
1	Q	620	SER	N-CA-C	8.64	122.09	110.35
3	B	139	ILE	N-CA-C	-8.58	101.35	110.36
3	R	289	ALA	N-CA-C	-8.55	104.87	114.62
3	B	350	PHE	N-CA-C	-8.52	102.91	113.38
1	Q	331	ASN	N-CA-C	-8.49	98.64	110.35
3	R	350	PHE	N-CA-C	-8.45	102.98	113.38
3	R	374	VAL	N-CA-C	-8.44	100.78	112.50
1	A	541	ALA	CA-C-N	-8.41	111.32	119.90
1	A	541	ALA	C-N-CA	-8.41	111.32	119.90
3	B	289	ALA	N-CA-C	-8.40	105.04	114.62
3	B	647	ILE	N-CA-C	-8.37	104.30	113.43
6	F	66	GLU	N-CA-C	8.36	120.39	111.28
1	A	846	VAL	N-CA-C	-8.35	102.73	111.58
7	H	16	LEU	N-CA-C	8.29	123.06	113.19
1	Q	541	ALA	CA-C-N	-8.29	111.45	119.90
1	Q	541	ALA	C-N-CA	-8.29	111.45	119.90
3	B	339	ALA	N-CA-C	-8.28	102.06	114.64
3	B	655	ILE	N-CA-C	8.27	116.12	107.76
3	R	139	ILE	N-CA-C	-8.25	101.69	110.36
7	V	53	ARG	N-CA-C	-8.18	103.05	112.87
7	H	53	ARG	N-CA-C	-8.13	103.12	112.87
3	R	326	TYR	N-CA-C	-8.03	101.22	111.02
1	Q	846	VAL	N-CA-C	-7.97	103.13	111.58
11	Z	30	GLY	N-CA-C	-7.95	105.93	114.67
8	W	24	GLN	N-CA-C	-7.94	103.59	113.28
11	P	30	GLY	N-CA-C	-7.94	105.94	114.67
6	U	66	GLU	N-CA-C	7.93	120.00	111.36
3	R	1078	VAL	N-CA-C	7.88	120.84	108.87
3	R	655	ILE	N-CA-C	7.86	115.70	107.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	R	866	VAL	N-CA-C	7.85	120.43	107.24
3	B	841	HIS	N-CA-C	7.85	124.32	111.37
1	A	481	LEU	N-CA-C	-7.84	100.16	110.43
3	B	26	GLN	N-CA-C	-7.82	102.75	111.82
3	B	326	TYR	N-CA-C	-7.82	101.48	111.02
3	R	841	HIS	N-CA-C	7.81	124.25	111.37
3	R	647	ILE	N-CA-C	-7.79	104.94	113.43
3	B	374	VAL	N-CA-C	-7.76	101.72	112.50
3	B	1078	VAL	N-CA-C	7.72	120.60	108.87
3	R	19	LYS	N-CA-C	-7.68	104.05	113.19
3	R	287	GLU	N-CA-C	7.68	119.34	110.97
2	C	54	LEU	N-CA-C	-7.64	102.96	111.82
3	B	312	ALA	N-CA-C	-7.55	104.04	113.18
1	Q	843	GLY	N-CA-C	-7.54	104.33	115.72
9	L	71	LYS	N-CA-C	-7.53	103.01	111.07
1	Q	468	GLN	N-CA-C	7.53	120.95	111.69
1	A	468	GLN	N-CA-C	7.51	120.92	111.69
3	B	866	VAL	N-CA-C	7.48	119.80	107.24
3	R	619	GLU	N-CA-C	-7.45	103.14	111.71
8	K	24	GLN	N-CA-C	-7.45	104.17	113.18
3	B	19	LYS	N-CA-C	-7.44	104.33	113.19
3	B	619	GLU	N-CA-C	-7.41	103.19	111.71
3	R	336	ASP	N-CA-C	-7.40	101.50	113.19
1	Q	239	LEU	N-CA-C	-7.40	103.30	111.36
3	R	923	GLN	N-CA-C	-7.38	103.23	112.90
1	A	508	LEU	N-CA-C	-7.37	95.11	110.80
3	B	384	LEU	N-CA-C	-7.37	104.90	114.04
3	B	923	GLN	N-CA-C	-7.35	103.27	112.90
3	R	260	SER	N-CA-C	-7.34	103.46	113.30
1	A	843	GLY	N-CA-C	-7.34	104.64	115.72
3	B	40	GLN	N-CA-C	-7.31	103.31	111.28
3	R	40	GLN	N-CA-C	-7.31	103.31	111.71
2	G	54	LEU	N-CA-C	-7.27	103.67	112.54
3	R	26	GLN	N-CA-C	-7.27	103.39	111.82
3	B	946	TYR	N-CA-C	7.24	126.23	110.80
3	R	1046	LYS	N-CA-C	-7.20	104.47	113.55
1	Q	279	ASN	N-CA-C	-7.20	104.12	114.12
1	Q	848	VAL	N-CA-C	-7.18	103.78	110.53
3	B	621	GLU	N-CA-C	-7.17	103.64	112.38
3	B	947	LYS	N-CA-C	-7.14	102.34	112.13
3	B	235	ASP	N-CA-C	-7.10	103.58	111.82
7	H	14	HIS	N-CA-C	7.10	121.51	108.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	R	924	ILE	N-CA-C	-7.10	102.63	112.50
3	R	235	ASP	N-CA-C	-7.09	103.89	112.54
3	B	958	LEU	N-CA-C	-7.09	103.25	112.68
3	B	1046	LYS	N-CA-C	-7.07	104.64	113.55
3	R	621	GLU	N-CA-C	-7.07	103.15	112.34
1	Q	481	LEU	N-CA-C	-7.04	101.20	110.43
3	R	315	LEU	N-CA-C	-7.04	103.61	111.28
3	B	336	ASP	N-CA-C	-7.01	102.11	113.19
3	B	963	LEU	CA-C-N	7.01	128.60	119.84
3	B	963	LEU	C-N-CA	7.01	128.60	119.84
3	B	315	LEU	N-CA-C	-6.98	103.67	111.28
7	V	14	HIS	N-CA-C	6.98	121.28	108.58
3	R	997	VAL	N-CA-C	6.97	117.68	110.36
2	G	39	LYS	N-CA-C	-6.97	105.71	114.56
3	R	318	ALA	N-CA-C	-6.96	104.66	113.43
9	X	71	LYS	N-CA-C	-6.95	103.63	111.07
6	U	61	ASN	N-CA-C	-6.95	104.67	113.01
3	R	207	ASP	N-CA-C	6.95	119.73	108.41
1	A	580	CYS	CA-C-N	6.94	126.62	119.82
1	A	580	CYS	C-N-CA	6.94	126.62	119.82
2	G	103	GLY	N-CA-C	6.93	119.95	112.33
3	B	260	SER	N-CA-C	-6.91	104.04	113.30
7	V	16	LEU	N-CA-C	6.91	122.91	113.37
6	F	25	ILE	N-CA-C	-6.91	104.86	112.80
1	A	654	GLY	N-CA-C	6.90	120.95	110.18
1	Q	508	LEU	N-CA-C	-6.90	96.11	110.80
1	A	348	THR	N-CA-C	6.90	119.55	109.07
2	C	39	LYS	N-CA-C	-6.90	105.80	114.56
1	Q	261	ILE	N-CA-C	-6.89	106.58	113.20
3	B	322	VAL	N-CA-C	-6.89	104.47	110.74
3	R	312	ALA	N-CA-C	-6.88	104.36	112.89
1	Q	787	ARG	N-CA-C	-6.87	96.16	110.80
1	A	279	ASN	N-CA-C	-6.81	104.65	114.12
3	R	946	TYR	N-CA-C	6.81	125.31	110.80
3	R	384	LEU	N-CA-C	-6.81	105.60	114.04
3	R	947	LYS	N-CA-C	-6.81	102.80	112.13
3	B	287	GLU	N-CA-C	6.78	118.35	110.97
3	B	1069	TRP	N-CA-C	6.73	118.79	109.29
2	C	356	ASP	N-CA-C	-6.72	103.96	111.28
3	R	963	LEU	CA-C-N	6.72	128.24	119.84
3	R	963	LEU	C-N-CA	6.72	128.24	119.84
6	F	61	ASN	N-CA-C	-6.71	104.96	113.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	711	ALA	N-CA-C	-6.70	103.45	111.69
3	R	285	ARG	N-CA-C	-6.70	104.81	114.12
1	Q	470	GLU	N-CA-C	-6.69	104.06	111.36
3	R	599	SER	N-CA-C	6.69	119.89	109.52
9	X	88	LYS	N-CA-C	-6.69	104.38	112.54
3	R	1069	TRP	N-CA-C	6.68	118.72	109.29
8	K	69	PHE	N-CA-C	-6.67	103.48	111.69
1	A	787	ARG	N-CA-C	-6.67	96.60	110.80
6	U	25	ILE	N-CA-C	-6.65	105.15	112.80
3	B	349	LEU	N-CA-C	-6.65	105.73	114.31
3	B	308	ARG	N-CA-C	-6.65	105.80	114.04
8	W	69	PHE	N-CA-C	-6.62	103.54	111.69
3	B	924	ILE	N-CA-C	-6.60	103.33	112.50
11	Z	19	LYS	N-CA-C	-6.59	105.63	113.21
1	Q	654	GLY	N-CA-C	6.57	120.43	110.18
1	A	744	ALA	N-CA-C	6.57	118.10	111.07
3	R	308	ARG	N-CA-C	-6.56	105.91	114.04
1	A	848	VAL	N-CA-C	-6.55	104.37	110.53
3	R	1068	GLY	N-CA-C	-6.55	103.79	112.82
3	R	322	VAL	N-CA-C	-6.54	104.78	110.74
3	B	436	GLY	N-CA-C	-6.53	97.70	113.18
1	Q	318	VAL	N-CA-C	6.52	118.10	108.45
3	B	329	ARG	N-CA-C	-6.52	103.83	113.61
7	H	70	GLN	N-CA-C	-6.52	104.96	113.17
3	B	318	ALA	N-CA-C	-6.51	105.23	113.43
1	Q	187	ILE	CA-C-N	6.50	126.53	119.89
1	Q	187	ILE	C-N-CA	6.50	126.53	119.89
3	R	397	ALA	N-CA-C	-6.50	104.11	113.21
3	R	799	SER	CA-C-N	6.48	127.94	119.84
3	R	799	SER	C-N-CA	6.48	127.94	119.84
1	A	239	LEU	N-CA-C	-6.47	104.31	111.82
1	Q	711	ALA	N-CA-C	-6.46	103.75	111.69
1	A	718	TYR	N-CA-C	-6.45	105.05	114.39
3	R	37	ASN	N-CA-C	-6.43	106.07	114.04
3	B	285	ARG	N-CA-C	-6.42	105.19	114.12
3	R	329	ARG	N-CA-C	-6.41	103.99	113.61
3	R	349	LEU	N-CA-C	-6.41	105.22	114.12
1	Q	708	ARG	N-CA-C	-6.40	105.11	113.12
2	C	32	LEU	N-CA-C	-6.39	104.03	112.34
2	C	78	VAL	N-CA-C	-6.38	105.37	113.22
1	Q	348	THR	N-CA-C	6.38	118.77	109.07
7	V	70	GLN	N-CA-C	-6.37	105.14	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	176	THR	CA-C-N	6.34	127.77	119.84
1	A	176	THR	C-N-CA	6.34	127.77	119.84
4	S	200	GLU	N-CA-C	-6.34	105.70	113.50
3	R	436	GLY	N-CA-C	-6.33	98.17	113.18
11	P	19	LYS	N-CA-C	-6.32	105.94	113.21
3	R	148	PRO	N-CA-C	6.32	121.84	113.57
3	R	1107	MET	N-CA-C	-6.32	105.15	112.92
1	A	187	ILE	CA-C-N	6.31	126.33	119.89
1	A	187	ILE	C-N-CA	6.31	126.33	119.89
1	A	261	ILE	N-CA-C	-6.31	107.14	113.20
4	D	200	GLU	N-CA-C	-6.29	105.76	113.50
1	Q	580	CYS	CA-C-N	6.29	125.99	119.82
1	Q	580	CYS	C-N-CA	6.29	125.99	119.82
8	W	61	VAL	N-CA-C	6.29	122.43	109.34
1	Q	275	THR	N-CA-C	-6.28	104.51	111.36
2	G	140	VAL	N-CA-C	-6.28	105.61	111.45
3	B	1068	GLY	N-CA-C	-6.28	104.16	112.82
2	G	32	LEU	N-CA-C	-6.28	104.18	112.34
3	B	1005	ALA	N-CA-C	-6.27	105.28	113.12
3	R	389	ILE	N-CA-C	-6.24	102.56	111.17
2	C	254	ASP	N-CA-C	-6.24	104.72	113.20
3	B	207	ASP	N-CA-C	6.22	119.05	108.90
1	A	856	PHE	N-CA-C	-6.22	102.22	109.93
11	P	24	VAL	N-CA-C	-6.22	106.44	112.29
3	B	599	SER	N-CA-C	6.21	119.15	109.52
3	B	389	ILE	N-CA-C	-6.20	102.62	111.17
2	C	140	VAL	N-CA-C	-6.20	105.69	111.45
1	Q	504	SER	N-CA-C	-6.19	106.05	113.97
1	Q	744	ALA	N-CA-C	6.18	117.68	111.07
3	B	148	PRO	N-CA-C	6.18	121.68	113.40
3	B	707	ALA	N-CA-C	-6.17	105.23	112.89
3	R	958	LEU	N-CA-C	-6.16	103.16	112.04
3	R	1037	ILE	N-CA-C	-6.16	104.33	113.39
1	Q	469	SER	N-CA-C	6.16	118.66	110.53
2	C	377	HIS	CA-C-N	6.15	126.51	119.93
2	C	377	HIS	C-N-CA	6.15	126.51	119.93
3	R	91	THR	N-CA-C	6.14	118.77	111.71
1	Q	317	ARG	N-CA-C	-6.12	102.45	110.53
3	B	397	ALA	N-CA-C	-6.11	104.66	113.21
8	K	61	VAL	N-CA-C	6.10	122.02	109.34
1	A	504	SER	N-CA-C	-6.10	106.17	113.97
9	L	88	LYS	N-CA-C	-6.09	105.10	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	R	1012	LEU	N-CA-C	6.07	119.07	111.24
3	B	799	SER	CA-C-N	6.07	127.42	119.84
3	B	799	SER	C-N-CA	6.07	127.42	119.84
11	P	10	TRP	N-CA-C	-6.07	100.68	110.32
1	A	275	THR	N-CA-C	-6.06	104.75	111.36
3	B	1060	VAL	N-CA-C	6.05	117.01	108.17
6	U	26	ARG	N-CA-C	-6.05	104.25	111.69
3	B	91	THR	N-CA-C	6.03	118.81	111.82
2	G	356	ASP	N-CA-C	-6.03	104.71	111.28
10	N	5	ILE	N-CA-C	-6.02	100.89	108.84
3	R	266	ASP	N-CA-C	-6.02	104.28	111.69
3	B	400	THR	N-CA-C	6.02	120.75	113.41
3	R	369	LEU	N-CA-C	6.01	117.50	111.07
5	T	58	ILE	N-CA-C	6.01	118.54	108.81
3	B	147	ASP	CA-C-N	6.01	125.40	118.85
3	B	147	ASP	C-N-CA	6.01	125.40	118.85
5	E	58	ILE	N-CA-C	5.99	118.52	108.81
3	B	37	ASN	N-CA-C	-5.98	106.62	114.04
11	Z	10	TRP	N-CA-C	-5.98	100.81	110.32
1	A	470	GLU	N-CA-C	-5.97	104.77	111.28
8	W	67	GLU	N-CA-C	-5.97	104.85	111.36
1	A	525	LEU	N-CA-C	5.96	117.44	110.41
1	Q	856	PHE	N-CA-C	-5.96	102.54	109.93
2	G	254	ASP	N-CA-C	-5.96	105.10	113.20
5	E	11	VAL	N-CA-C	5.95	116.75	108.89
10	N	36	ASP	N-CA-C	-5.95	104.70	111.07
3	B	369	LEU	N-CA-C	5.94	117.42	111.07
5	T	11	VAL	N-CA-C	5.92	117.10	108.58
1	A	708	ARG	N-CA-C	-5.91	105.73	113.12
1	Q	11	PHE	N-CA-C	5.91	119.01	109.79
3	B	267	ASP	N-CA-C	-5.91	105.33	112.54
3	R	707	ALA	N-CA-C	-5.91	105.56	112.89
1	Q	661	ILE	N-CA-C	-5.90	105.96	111.45
1	Q	862	HIS	N-CA-C	-5.87	98.29	110.80
1	A	58	CYS	CA-C-N	-5.87	110.78	120.88
1	A	58	CYS	C-N-CA	-5.87	110.78	120.88
8	K	36	ILE	N-CA-C	-5.87	103.44	111.89
3	B	214	PHE	N-CA-C	5.86	120.50	107.95
8	K	26	ARG	N-CA-C	5.86	123.29	110.80
2	C	56	ILE	N-CA-C	-5.86	103.45	111.89
4	D	159	VAL	N-CA-C	5.86	118.13	108.99
3	R	1060	VAL	N-CA-C	5.86	116.72	108.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	E	176	THR	N-CA-C	-5.85	105.64	112.89
3	R	400	THR	N-CA-C	5.85	120.54	113.41
1	A	11	PHE	N-CA-C	5.85	118.91	109.79
1	A	667	ARG	N-CA-C	-5.84	105.65	112.89
3	R	1074	LYS	N-CA-C	-5.84	105.73	112.86
3	R	214	PHE	N-CA-C	5.83	120.43	107.95
3	B	1012	LEU	N-CA-C	5.83	118.76	111.24
1	Q	176	THR	CA-C-N	5.83	127.12	119.84
1	Q	176	THR	C-N-CA	5.83	127.12	119.84
1	Q	718	TYR	N-CA-C	-5.82	105.96	114.39
8	W	60	ASP	N-CA-C	5.80	123.14	110.80
3	R	387	PRO	N-CA-C	5.79	119.95	111.03
1	A	318	VAL	N-CA-C	5.79	118.19	108.81
3	R	87	LEU	N-CA-C	-5.79	105.48	112.54
1	A	469	SER	N-CA-C	5.78	118.65	110.50
3	B	1074	LYS	N-CA-C	-5.76	105.83	112.86
4	S	159	VAL	N-CA-C	5.76	117.97	108.99
3	B	387	PRO	N-CA-C	5.75	119.89	111.03
1	A	281	ILE	CA-C-N	5.75	127.03	119.84
1	A	281	ILE	C-N-CA	5.75	127.03	119.84
10	Y	36	ASP	N-CA-C	-5.74	104.92	111.07
2	G	22	ASN	N-CA-C	-5.74	106.44	113.50
3	R	536	LEU	N-CA-C	-5.74	104.38	111.33
8	W	26	ARG	N-CA-C	5.74	123.03	110.80
3	B	548	GLU	N-CA-C	-5.74	107.27	114.56
3	B	1107	MET	N-CA-C	-5.73	105.87	112.92
4	S	90	GLU	N-CA-C	5.72	117.19	111.07
2	G	56	ILE	N-CA-C	-5.71	103.66	111.89
10	Y	63	THR	N-CA-C	5.71	122.95	110.80
1	A	410	HIS	N-CA-C	-5.70	103.40	110.41
1	Q	58	CYS	CA-C-N	-5.70	111.08	120.88
1	Q	58	CYS	C-N-CA	-5.70	111.08	120.88
1	A	861	ALA	N-CA-C	-5.70	105.10	112.68
5	T	176	THR	N-CA-C	-5.69	105.83	112.89
6	U	54	LYS	N-CA-C	-5.69	106.68	113.97
3	R	551	ASP	N-CA-C	-5.69	106.38	113.15
2	C	22	ASN	N-CA-C	-5.69	106.50	113.50
1	Q	525	LEU	N-CA-C	5.69	117.12	110.41
3	R	265	VAL	N-CA-C	-5.69	106.76	113.42
8	W	36	ILE	N-CA-C	-5.69	103.70	111.89
3	B	265	VAL	N-CA-C	-5.67	106.78	113.42
1	Q	783	TYR	N-CA-C	-5.67	106.53	113.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	B	551	ASP	N-CA-C	-5.66	106.23	113.02
3	B	266	ASP	N-CA-C	-5.66	104.73	111.69
1	A	451	PRO	N-CA-C	5.64	117.58	110.70
3	R	1033	ARG	N-CA-C	-5.64	105.21	111.36
3	R	567	HIS	N-CA-C	5.63	117.96	107.99
8	K	87	ILE	CB-CA-C	-5.63	105.47	112.45
3	B	832	LYS	N-CA-C	5.63	118.61	108.48
3	R	70	VAL	N-CA-C	5.61	115.72	107.75
6	F	54	LYS	N-CA-C	-5.61	106.79	113.97
10	N	63	THR	N-CA-C	5.61	122.74	110.80
8	W	85	GLY	N-CA-C	-5.61	108.02	114.69
3	B	60	LEU	N-CA-C	5.60	117.82	109.25
3	R	375	ARG	N-CA-C	5.60	118.35	110.23
1	A	317	ARG	N-CA-C	-5.59	103.16	110.53
2	C	269	VAL	N-CA-C	-5.59	105.74	113.00
1	A	862	HIS	N-CA-C	-5.58	98.92	110.80
3	R	60	LEU	N-CA-C	5.58	117.78	109.25
10	Y	5	ILE	N-CA-C	-5.57	101.49	108.84
1	A	747	LEU	N-CA-C	-5.57	102.41	111.04
6	F	26	ARG	N-CA-C	-5.57	104.84	111.69
1	Q	667	ARG	N-CA-C	-5.57	105.99	112.89
9	X	35	ILE	N-CA-C	5.56	116.37	107.98
8	K	60	ASP	N-CA-C	5.55	122.63	110.80
1	Q	747	LEU	N-CA-C	-5.55	102.43	111.04
2	C	389	THR	N-CA-C	5.55	117.68	108.13
1	Q	864	LYS	N-CA-C	5.54	122.61	110.80
2	G	269	VAL	N-CA-C	-5.54	105.80	113.00
2	C	305	GLY	N-CA-C	-5.54	106.49	112.08
3	R	608	VAL	N-CA-C	5.54	116.19	110.82
3	B	1109	ILE	N-CA-C	-5.53	100.46	108.36
1	A	661	ILE	N-CA-C	-5.51	106.32	111.45
2	G	389	THR	N-CA-C	5.50	117.60	108.13
3	B	13	VAL	CB-CA-C	-5.50	104.94	111.81
3	R	323	ILE	N-CA-C	-5.50	105.01	110.62
1	A	339	VAL	N-CA-C	5.49	114.14	107.61
6	F	53	GLN	N-CA-C	-5.49	106.66	113.19
4	S	224	ASP	N-CA-C	5.49	119.27	111.92
3	B	1082	HIS	N-CA-C	5.48	122.47	110.80
6	U	22	THR	N-CA-C	-5.48	105.31	111.28
5	E	60	VAL	N-CA-C	5.48	116.01	108.12
3	R	267	ASP	N-CA-C	-5.48	105.86	112.54
3	R	1109	ILE	N-CA-C	-5.48	100.53	108.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	297	THR	N-CA-C	5.47	118.65	109.95
5	T	5	ILE	N-CA-C	5.47	115.86	107.77
9	L	35	ILE	N-CA-C	5.46	116.23	107.98
4	S	256	LEU	N-CA-C	-5.45	104.98	111.03
3	R	488	THR	N-CA-C	-5.45	106.47	113.01
3	B	1070	TYR	N-CA-C	5.44	118.49	109.46
2	G	377	HIS	CA-C-N	5.44	125.75	119.93
2	G	377	HIS	C-N-CA	5.44	125.75	119.93
1	Q	800	ALA	N-CA-C	-5.43	106.60	113.18
3	B	545	ARG	N-CA-C	-5.43	105.78	112.90
2	C	47	GLU	N-CA-C	5.43	118.32	107.62
1	Q	451	PRO	N-CA-C	5.43	117.32	110.70
4	S	128	ILE	N-CA-C	5.42	113.91	107.73
4	D	69	SER	N-CA-C	-5.41	106.66	113.20
3	B	1037	ILE	N-CA-C	-5.41	105.11	113.16
3	R	832	LYS	N-CA-C	5.40	118.20	108.48
3	R	1070	TYR	N-CA-C	5.40	118.42	109.46
7	V	15	TYR	N-CA-C	5.40	122.30	110.80
2	G	375	ILE	N-CA-C	5.40	116.12	110.62
4	S	208	GLU	N-CA-C	-5.39	105.41	111.28
1	A	746	MET	N-CA-C	5.39	122.27	110.80
4	D	208	GLU	N-CA-C	-5.38	105.41	111.28
3	B	536	LEU	N-CA-C	-5.38	104.82	111.33
1	A	783	TYR	N-CA-C	-5.38	106.89	113.50
1	A	538	ALA	N-CA-C	-5.38	104.98	112.45
2	G	62	GLY	N-CA-C	-5.37	106.37	115.34
3	B	894	GLN	N-CA-C	5.37	117.88	111.71
9	X	65	PRO	N-CA-C	-5.37	105.80	113.47
1	A	692	LEU	N-CA-C	-5.36	105.13	110.97
1	Q	545	TYR	N-CA-C	5.36	116.42	108.60
3	B	237	ASP	N-CA-C	-5.36	106.80	113.55
7	H	15	TYR	N-CA-C	5.36	122.21	110.80
3	B	323	ILE	N-CA-C	-5.35	105.16	110.62
3	B	1033	ARG	N-CA-C	-5.35	105.53	111.36
1	Q	663	ASN	N-CA-C	-5.35	106.77	113.72
3	R	1082	HIS	N-CA-C	5.34	122.17	110.80
4	D	35	TYR	N-CA-C	5.33	122.16	110.80
3	B	87	LEU	N-CA-C	-5.33	106.04	112.54
8	K	85	GLY	N-CA-C	-5.33	108.35	114.69
8	W	87	ILE	CB-CA-C	-5.33	105.85	112.45
2	G	78	VAL	N-CA-C	-5.32	105.58	113.39
1	A	593	LEU	N-CA-C	5.31	117.35	110.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	R	116	ILE	N-CA-C	5.31	116.38	111.81
1	Q	538	ALA	N-CA-C	-5.31	105.07	112.45
3	B	567	HIS	N-CA-C	5.31	117.17	108.52
8	K	67	GLU	N-CA-C	-5.30	105.67	111.82
2	C	62	GLY	N-CA-C	-5.30	106.50	115.34
1	A	759	ARG	N-CA-C	5.29	122.08	110.80
3	R	907	ASP	N-CA-C	-5.29	107.19	113.97
4	S	35	TYR	N-CA-C	5.29	122.07	110.80
3	R	545	ARG	N-CA-C	-5.29	105.97	112.90
1	A	663	ASN	N-CA-C	-5.28	106.86	113.72
3	R	123	LEU	N-CA-C	5.28	117.53	110.35
2	G	47	GLU	N-CA-C	5.27	118.01	107.62
1	Q	72	PHE	N-CA-C	5.26	116.72	110.19
1	A	435	VAL	N-CA-C	5.25	116.36	109.21
2	C	296	GLU	N-CA-C	-5.25	107.41	112.97
5	E	5	ILE	N-CA-C	5.24	115.52	107.77
4	D	90	GLU	N-CA-C	5.22	117.37	111.11
3	B	331	GLU	CA-C-N	5.21	126.36	119.84
3	B	331	GLU	C-N-CA	5.21	126.36	119.84
3	B	395	ARG	N-CA-C	-5.21	107.09	113.50
2	C	112	ASP	N-CA-C	-5.21	105.21	112.45
3	B	70	VAL	N-CA-C	5.20	115.14	107.75
10	N	35	LEU	N-CA-C	-5.20	106.08	112.90
3	R	13	VAL	CB-CA-C	-5.20	105.31	111.81
1	A	657	VAL	N-CA-C	-5.20	105.31	110.62
1	Q	281	ILE	CA-C-N	5.20	126.34	119.84
1	Q	281	ILE	C-N-CA	5.20	126.34	119.84
3	B	1062	ASP	N-CA-C	-5.19	105.31	111.69
3	R	1062	ASP	N-CA-C	-5.19	105.31	111.69
3	R	108	GLU	N-CA-C	5.18	115.38	108.23
3	R	1007	GLY	CA-C-N	5.18	125.17	119.89
3	R	1007	GLY	C-N-CA	5.18	125.17	119.89
3	R	331	GLU	CA-C-N	5.17	126.31	119.84
3	R	331	GLU	C-N-CA	5.17	126.31	119.84
3	B	539	LYS	N-CA-C	-5.17	105.30	111.03
4	D	256	LEU	N-CA-C	-5.17	105.30	111.03
3	B	375	ARG	N-CA-C	5.16	117.72	110.23
1	Q	204	PRO	N-CA-C	-5.16	107.69	114.03
1	A	488	THR	CA-C-N	5.15	125.23	119.87
1	A	488	THR	C-N-CA	5.15	125.23	119.87
1	Q	507	TYR	N-CA-C	-5.15	102.66	110.28
1	A	303	LYS	N-CA-C	5.14	121.75	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	72	PHE	N-CA-C	5.14	116.56	110.19
3	R	27	HIS	N-CA-C	5.14	119.42	111.56
5	T	13	ILE	CA-C-N	5.13	125.67	120.38
5	T	13	ILE	C-N-CA	5.13	125.67	120.38
3	R	548	GLU	N-CA-C	-5.13	108.04	114.56
1	A	642	GLN	N-CA-C	-5.13	106.85	114.64
3	R	802	VAL	N-CA-C	5.13	115.15	107.51
5	T	60	VAL	N-CA-C	5.12	115.50	108.12
3	B	27	HIS	N-CA-C	5.12	119.39	111.56
1	Q	334	ILE	CB-CA-C	-5.12	105.33	111.88
1	A	864	LYS	N-CA-C	5.11	121.69	110.80
1	Q	435	VAL	N-CA-C	5.11	116.16	109.21
1	Q	759	ARG	N-CA-C	5.11	121.68	110.80
1	Q	410	HIS	N-CA-C	-5.11	104.13	110.41
3	R	539	LYS	N-CA-C	-5.11	105.36	111.03
1	A	523	GLN	N-CA-C	-5.10	105.80	111.36
1	Q	301	ARG	N-CA-C	-5.10	102.21	110.32
3	R	894	GLN	N-CA-C	5.10	117.58	111.71
3	B	401	GLY	N-CA-C	-5.10	101.09	113.18
4	D	224	ASP	N-CA-C	5.10	118.75	111.92
3	B	1015	GLN	CA-C-N	5.08	126.19	119.84
3	B	1015	GLN	C-N-CA	5.08	126.19	119.84
3	B	108	GLU	N-CA-C	5.08	115.23	108.23
6	U	53	GLN	N-CA-C	-5.07	107.16	113.19
3	R	1015	GLN	CA-C-N	5.07	126.17	119.84
3	R	1015	GLN	C-N-CA	5.07	126.17	119.84
6	F	22	THR	N-CA-C	-5.06	105.77	111.28
3	R	1005	ALA	N-CA-C	-5.06	105.95	112.68
4	D	248	SER	N-CA-C	-5.06	105.95	111.82
3	R	395	ARG	N-CA-C	-5.05	107.29	113.50
3	B	671	ALA	N-CA-C	-5.04	106.47	113.18
1	A	710	THR	N-CA-C	-5.04	106.96	113.01
1	Q	488	THR	N-CA-C	5.03	115.76	109.57
4	D	157	ILE	CB-CA-C	-5.03	104.89	110.68
2	C	126	LEU	N-CA-C	5.03	121.52	110.80
2	G	126	LEU	N-CA-C	5.02	121.48	110.80
2	C	378	PRO	N-CA-C	5.01	119.43	111.26
9	L	64	THR	N-CA-C	-5.01	103.38	110.29
3	B	608	VAL	N-CA-C	5.01	115.68	110.82

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	B	314	TYR	Sidechain
4	D	54	TYR	Sidechain
3	R	314	TYR	Sidechain
4	S	54	TYR	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6173	0	6243	1200	0
1	Q	6173	0	6243	1174	0
2	C	2169	0	2288	517	0
2	G	2169	0	2288	549	0
3	B	8645	0	8782	1751	0
3	R	8645	0	8780	1782	0
4	D	2114	0	2145	373	0
4	S	2114	0	2145	361	0
5	E	1402	0	1467	225	0
5	T	1402	0	1467	251	0
6	F	694	0	705	134	0
6	U	694	0	705	145	0
7	H	611	0	641	119	0
7	V	611	0	641	128	0
8	K	658	0	692	165	0
8	W	658	0	692	177	0
9	L	723	0	749	96	0
9	X	723	0	749	93	0
10	N	514	0	528	165	0
10	Y	514	0	529	159	0
11	P	346	0	376	67	0
11	Z	346	0	375	61	0
12	A	1	0	0	0	0
12	B	1	0	0	0	0
12	N	1	0	0	0	0
12	P	1	0	0	0	0
12	Q	1	0	0	0	0
12	R	1	0	0	0	0
12	Y	1	0	0	0	0
12	Z	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	A	1	0	0	0	0
13	Q	1	0	0	0	0
14	D	7	0	0	4	0
14	S	7	0	0	3	0
All	All	48122	0	49230	8651	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 89.

All (8651) 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:A:238:LYS:NZ	1:A:297:THR:HB	1.42	1.31
1:Q:238:LYS:NZ	1:Q:297:THR:HB	1.43	1.31
1:Q:486:ILE:HD11	1:Q:628:MET:HE2	1.19	1.18
1:A:803:ARG:HG2	3:B:444:ASP:HA	1.20	1.17
1:A:308:ARG:HH21	3:B:1099:LEU:HD13	1.10	1.16
1:Q:868:VAL:HG22	2:G:39:LYS:HZ3	1.09	1.16
3:R:88:ARG:HD3	3:R:853:THR:HG21	1.25	1.15
3:R:329:ARG:HD2	3:R:562:PHE:HB3	1.24	1.15
11:Z:46:LYS:H	11:Z:46:LYS:HD2	1.06	1.15
3:B:329:ARG:HD2	3:B:562:PHE:HB3	1.24	1.14
11:P:46:LYS:H	11:P:46:LYS:HD2	1.06	1.14
1:A:486:ILE:HD11	1:A:628:MET:HE2	1.19	1.14
3:B:88:ARG:HD3	3:B:853:THR:HG21	1.26	1.14
1:Q:803:ARG:HG2	3:R:444:ASP:HA	1.17	1.13
1:A:868:VAL:HG22	2:C:39:LYS:HZ3	1.12	1.12
1:A:418:LEU:HD21	3:B:1044:LEU:HD21	1.24	1.12
3:B:560:THR:HG22	3:B:562:PHE:H	1.02	1.11
1:Q:290:ARG:HD2	1:Q:291:SER:H	1.11	1.11
6:U:16:VAL:HG21	6:U:53:GLN:HG3	1.32	1.11
4:D:190:LEU:HD22	4:D:195:LEU:HA	1.32	1.11
1:Q:308:ARG:HH21	3:R:1099:LEU:HD13	1.09	1.10
2:C:274:THR:HG22	2:C:275:ASN:H	1.15	1.10
3:B:640:LEU:CD2	3:B:641:GLU:H	1.65	1.10
7:V:29:TYR:HA	7:V:32:LEU:HD12	1.16	1.10
7:H:29:TYR:HA	7:H:32:LEU:HD12	1.12	1.09
3:R:560:THR:HG22	3:R:562:PHE:H	1.02	1.09
3:R:581:ILE:HD11	3:R:614:GLU:HB2	1.31	1.08
6:F:16:VAL:HG21	6:F:53:GLN:HG3	1.31	1.08
3:R:458:THR:HG21	3:R:465:GLY:H	1.14	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:640:LEU:CD2	3:R:641:GLU:H	1.67	1.07
1:Q:418:LEU:HD21	3:R:1044:LEU:HD21	1.37	1.07
2:G:274:THR:HG22	2:G:275:ASN:H	1.11	1.07
2:G:340:SER:HB3	2:G:371:GLU:HG2	1.09	1.07
2:G:309:ASP:OD2	2:G:311:ARG:HD3	1.55	1.07
3:R:869:LEU:HD11	4:S:56:GLU:HB3	1.34	1.07
3:B:249:GLN:HG3	3:B:250:ASN:H	1.20	1.07
3:B:650:ILE:HD13	3:B:650:ILE:H	1.16	1.07
2:C:55:ALA:HA	2:C:58:GLU:HG3	1.37	1.06
7:H:12:ARG:HD3	7:H:12:ARG:H	1.18	1.06
2:C:340:SER:HB3	2:C:371:GLU:HG2	1.08	1.06
3:B:458:THR:HG21	3:B:465:GLY:H	1.14	1.06
1:Q:369:PRO:HB3	1:Q:376:ASN:HB3	1.37	1.06
4:S:190:LEU:HD22	4:S:195:LEU:HA	1.31	1.06
3:B:581:ILE:HD11	3:B:614:GLU:HB2	1.36	1.06
1:Q:866:VAL:HG12	1:Q:869:ASN:H	1.19	1.05
3:R:650:ILE:HD13	3:R:650:ILE:H	1.15	1.05
1:A:58:CYS:SG	1:A:59:PRO:HD2	1.95	1.05
1:A:290:ARG:HD2	1:A:291:SER:H	1.09	1.05
3:R:569:ASN:HB3	3:R:574:ARG:HH22	1.21	1.04
1:Q:575:CYS:SG	1:Q:580:CYS:HB3	1.97	1.04
3:B:26:GLN:O	3:B:345:LEU:HD23	1.55	1.04
3:B:640:LEU:HD23	3:B:641:GLU:H	1.18	1.04
1:Q:874:ARG:HE	2:G:53:ASP:HB3	1.18	1.04
2:G:286:ILE:HD12	7:V:45:ILE:HG13	1.36	1.04
2:G:390:MET:HB2	5:T:56:GLU:HG3	1.38	1.04
4:D:191:LYS:HB2	4:D:194:LYS:HD2	1.37	1.04
3:B:569:ASN:HB3	3:B:574:ARG:HH22	1.24	1.03
4:S:191:LYS:HB2	4:S:194:LYS:HD2	1.41	1.03
7:V:12:ARG:HD3	7:V:12:ARG:H	1.17	1.03
3:R:705:THR:HG22	3:R:706:ARG:H	1.24	1.03
1:A:575:CYS:SG	1:A:580:CYS:HB3	1.99	1.02
1:A:874:ARG:HE	2:C:53:ASP:HB3	1.19	1.02
2:C:340:SER:HB3	2:C:371:GLU:CG	1.87	1.02
3:R:640:LEU:HD23	3:R:641:GLU:H	1.19	1.02
3:B:479:GLY:HA2	3:B:552:GLU:HB3	1.41	1.02
5:T:179:LYS:HE2	6:U:81:ASP:HB2	1.40	1.02
3:B:1033:ARG:NH1	3:B:1034:ASP:OD2	1.90	1.02
3:R:853:THR:HG22	3:R:854:GLU:H	1.24	1.02
1:A:866:VAL:HG12	1:A:869:ASN:H	1.20	1.02
3:B:874:ILE:H	3:B:874:ILE:HD12	1.23	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:242:VAL:HA	3:R:316:ALA:HB1	1.38	1.02
3:R:479:GLY:HA2	3:R:552:GLU:HB3	1.38	1.02
3:B:242:VAL:HA	3:B:316:ALA:HB1	1.38	1.02
1:Q:826:ALA:HB2	2:G:335:THR:HG23	1.38	1.02
2:G:340:SER:HB3	2:G:371:GLU:CG	1.89	1.02
1:A:749:GLN:H	1:A:781:PHE:HA	1.24	1.01
1:Q:58:CYS:SG	1:Q:59:PRO:HD2	2.00	1.01
1:Q:760:GLY:HA3	3:R:447:GLY:HA3	1.42	1.01
1:A:238:LYS:HZ1	1:A:297:THR:CB	1.71	1.01
1:A:365:VAL:HG23	1:A:388:LEU:HD11	1.43	1.01
2:G:69:ALA:HB2	2:G:381:LEU:HD22	1.43	1.01
3:R:65:ILE:H	3:R:65:ILE:HD12	1.22	1.01
3:R:582:VAL:HG13	3:R:586:ASN:H	1.21	1.01
1:A:830:LEU:HD23	1:A:840:SER:HB3	1.43	1.00
1:Q:175:LEU:HD23	1:Q:176:THR:H	1.25	1.00
3:R:26:GLN:O	3:R:345:LEU:HD23	1.60	1.00
5:T:166:GLN:HB2	5:T:169:LEU:HD12	1.41	1.00
2:C:310:ILE:H	2:C:310:ILE:HD12	1.27	1.00
3:B:582:VAL:HG13	3:B:586:ASN:H	1.23	1.00
3:B:65:ILE:H	3:B:65:ILE:HD12	1.26	1.00
4:D:131:VAL:HG22	4:D:132:LEU:H	1.27	1.00
3:B:24:VAL:HG11	3:B:426:LEU:HD13	1.43	1.00
2:C:309:ASP:OD2	2:C:311:ARG:HD3	1.61	0.99
3:B:853:THR:HG22	3:B:854:GLU:H	1.26	0.99
10:N:35:LEU:HD22	10:N:40:VAL:HG21	1.43	0.99
3:R:249:GLN:HG3	3:R:250:ASN:H	1.22	0.99
1:A:79:ARG:HB2	1:A:266:TRP:CE3	1.97	0.99
1:A:293:ARG:HH11	1:A:296:ARG:NH2	1.59	0.99
1:Q:365:VAL:HG23	1:Q:388:LEU:HD11	1.42	0.99
3:R:197:ARG:NH2	3:R:359:LYS:HG2	1.75	0.99
1:A:175:LEU:HD23	1:A:176:THR:H	1.25	0.99
2:C:102:LEU:HD23	2:C:103:GLY:N	1.77	0.99
2:C:329:ILE:HA	2:C:334:VAL:HG12	1.44	0.99
1:A:369:PRO:HB3	1:A:376:ASN:HB3	1.41	0.99
3:B:108:GLU:O	3:B:110:GLU:HG3	1.63	0.99
2:C:69:ALA:HB2	2:C:381:LEU:HD22	1.44	0.99
3:R:1033:ARG:NH1	3:R:1034:ASP:OD2	1.94	0.98
4:S:131:VAL:HG22	4:S:132:LEU:H	1.28	0.98
1:A:86:LEU:HB3	1:A:207:MET:HE2	1.42	0.98
1:Q:238:LYS:HZ1	1:Q:297:THR:CB	1.76	0.98
1:Q:293:ARG:HH11	1:Q:296:ARG:NH2	1.61	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:175:ASN:HA	4:S:195:LEU:HD11	1.45	0.98
1:Q:176:THR:HG23	1:Q:179:ASP:HB2	1.46	0.98
3:B:197:ARG:NH2	3:B:359:LYS:HG2	1.79	0.98
3:R:47:GLY:HA2	3:R:58:VAL:O	1.62	0.98
1:A:826:ALA:HB2	2:C:335:THR:HG23	1.45	0.98
3:B:557:HIS:N	3:B:623:ASN:HD21	1.61	0.98
4:S:11:THR:O	4:S:238:PRO:HB3	1.64	0.98
5:E:166:GLN:HB2	5:E:169:LEU:HD12	1.42	0.98
3:B:588:LEU:HD13	3:B:612:LYS:HB3	1.44	0.97
2:G:55:ALA:HA	2:G:58:GLU:HG3	1.42	0.97
3:B:982:ARG:O	3:B:983:ILE:HG12	1.63	0.97
1:Q:749:GLN:H	1:Q:781:PHE:HA	1.24	0.97
1:Q:79:ARG:HB2	1:Q:266:TRP:CE3	1.99	0.97
3:R:201:THR:HG23	3:R:215:PRO:HG3	1.45	0.97
8:W:45:MET:HE2	8:W:45:MET:HA	1.45	0.97
3:B:781:ARG:HD3	3:B:782:GLY:H	1.30	0.97
4:D:11:THR:O	4:D:238:PRO:HB3	1.63	0.97
5:E:179:LYS:HZ3	6:F:79:THR:HB	1.29	0.97
1:Q:238:LYS:HZ1	1:Q:297:THR:HB	0.83	0.97
5:T:179:LYS:HZ1	6:U:82:GLU:H	1.09	0.97
1:A:376:ASN:O	1:A:377:TYR:HB2	1.65	0.96
2:G:289:ALA:O	2:G:292:ILE:HG22	1.64	0.96
3:R:759:SER:HB2	3:R:862:VAL:O	1.64	0.96
10:Y:35:LEU:HD22	10:Y:40:VAL:HG21	1.45	0.96
3:B:557:HIS:H	3:B:623:ASN:HD21	1.03	0.96
5:T:53:THR:HB	5:T:71:GLU:H	1.28	0.96
3:B:628:LEU:HD23	3:B:628:LEU:H	1.29	0.96
2:C:104:LEU:HB3	2:C:105:PRO:HD3	1.47	0.96
1:Q:86:LEU:HB3	1:Q:207:MET:HE2	1.45	0.96
8:K:45:MET:HE2	8:K:45:MET:HA	1.44	0.96
4:D:175:ASN:HA	4:D:195:LEU:HD11	1.48	0.96
2:G:25:PRO:HD3	2:G:33:LYS:HD2	1.48	0.96
1:Q:830:LEU:HD23	1:Q:840:SER:HB3	1.45	0.96
2:C:286:ILE:HD12	7:H:45:ILE:HG13	1.48	0.96
3:B:47:GLY:HA2	3:B:58:VAL:O	1.66	0.96
3:R:764:LYS:HZ3	3:R:814:VAL:H	0.96	0.96
1:Q:600:LYS:HE3	1:Q:732:GLY:HA2	1.48	0.96
2:G:102:LEU:HD23	2:G:103:GLY:N	1.80	0.96
3:B:201:THR:HG23	3:B:215:PRO:HG3	1.45	0.95
3:R:982:ARG:O	3:R:983:ILE:HG12	1.64	0.95
3:B:702:LEU:H	3:B:721:ASN:ND2	1.64	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:604:GLY:C	1:Q:606:GLN:H	1.70	0.95
5:E:53:THR:HB	5:E:71:GLU:H	1.31	0.95
3:R:781:ARG:HD3	3:R:782:GLY:H	1.31	0.95
5:E:84:VAL:HG21	6:F:86:ILE:HG12	1.47	0.95
1:Q:238:LYS:HZ2	1:Q:276:TYR:HA	1.27	0.95
11:Z:26:CYS:SG	11:Z:29:CYS:HB2	2.06	0.95
1:A:354:THR:HB	1:A:355:PRO:HD2	1.48	0.95
3:B:1074:LYS:HB3	3:B:1076:LYS:HE2	1.49	0.95
1:Q:81:VAL:HG23	1:Q:209:LEU:HB2	1.48	0.95
1:A:290:ARG:HD2	1:A:291:SER:N	1.81	0.95
4:S:98:ILE:HD11	4:S:114:ILE:HG23	1.47	0.95
1:Q:376:ASN:O	1:Q:377:TYR:HB2	1.66	0.95
1:A:672:VAL:HG13	1:A:700:ILE:HD12	1.48	0.95
1:A:653:LEU:HD11	1:A:745:ALA:HB2	1.49	0.94
1:Q:653:LEU:HD11	1:Q:745:ALA:HB2	1.47	0.94
3:R:628:LEU:HD23	3:R:628:LEU:H	1.30	0.94
1:A:473:ILE:HD12	1:A:474:ALA:N	1.82	0.94
3:B:221:ILE:HG21	3:B:226:LEU:HG	1.49	0.94
2:G:80:GLU:HB3	2:G:81:PRO:HD3	1.50	0.94
1:Q:855:VAL:HG22	2:G:64:ILE:HB	1.48	0.94
3:B:946:TYR:HD2	3:B:947:LYS:N	1.65	0.94
3:R:1060:VAL:HG12	3:R:1065:GLY:HA3	1.47	0.94
1:A:238:LYS:HZ2	1:A:276:TYR:HA	1.30	0.94
5:T:179:LYS:NZ	6:U:79:THR:HB	1.83	0.94
3:B:43:ILE:HG21	3:B:63:ILE:HD11	1.50	0.94
3:B:705:THR:HG22	3:B:706:ARG:H	1.31	0.94
2:G:344:ARG:HB2	2:G:344:ARG:HH11	1.33	0.94
1:A:81:VAL:HG23	1:A:209:LEU:HB2	1.49	0.94
1:A:765:THR:HG22	1:A:766:LEU:HD23	1.50	0.94
3:B:591:ILE:HG12	3:B:612:LYS:HZ2	1.29	0.94
3:R:702:LEU:H	3:R:721:ASN:HD21	0.96	0.94
2:C:25:PRO:HD3	2:C:33:LYS:HD2	1.48	0.93
1:Q:803:ARG:CG	3:R:444:ASP:HA	1.97	0.93
5:T:84:VAL:HG21	6:U:86:ILE:HG12	1.50	0.93
1:A:293:ARG:HH11	1:A:296:ARG:HH22	0.94	0.93
11:P:26:CYS:SG	11:P:29:CYS:HB2	2.07	0.93
2:G:329:ILE:HA	2:G:334:VAL:HG12	1.50	0.93
3:R:797:VAL:HB	11:Z:36:MET:HE1	1.50	0.93
1:A:637:ARG:HH11	3:B:974:ARG:HH12	1.16	0.93
1:Q:650:ASP:HB3	1:Q:723:ASN:ND2	1.81	0.93
1:A:650:ASP:HB3	1:A:723:ASN:ND2	1.82	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:179:LYS:CE	6:U:81:ASP:HB2	1.97	0.93
3:R:946:TYR:HD2	3:R:947:LYS:N	1.67	0.93
1:Q:352:ARG:HD3	1:Q:406:ILE:HD12	1.50	0.93
1:A:855:VAL:HG22	2:C:64:ILE:HB	1.49	0.93
3:R:537:ALA:HB2	3:R:557:HIS:NE2	1.84	0.93
1:A:90:ILE:HD11	1:A:207:MET:HB3	1.51	0.93
1:Q:290:ARG:HD2	1:Q:291:SER:N	1.82	0.93
3:R:38:LYS:HG3	3:R:39:LEU:H	1.30	0.93
2:C:344:ARG:HH11	2:C:344:ARG:HB2	1.33	0.93
3:R:108:GLU:O	3:R:110:GLU:HG3	1.69	0.93
3:B:954:GLN:HA	3:B:957:ILE:HD11	1.50	0.93
1:A:176:THR:HG23	1:A:179:ASP:HB2	1.49	0.92
1:A:803:ARG:CG	3:B:444:ASP:HA	1.97	0.92
3:R:339:ALA:HB2	3:R:618:ALA:HB3	1.50	0.92
3:R:764:LYS:HZ3	3:R:814:VAL:N	1.67	0.92
3:B:686:LEU:HD12	3:B:686:LEU:H	1.34	0.92
1:Q:338:GLY:HA3	1:Q:444:ARG:HG2	1.49	0.92
1:Q:868:VAL:HG22	2:G:39:LYS:NZ	1.83	0.92
3:R:686:LEU:HD12	3:R:686:LEU:H	1.33	0.92
2:C:270:ALA:HA	7:H:14:HIS:ND1	1.85	0.92
3:R:557:HIS:H	3:R:623:ASN:HD21	1.11	0.92
10:Y:42:ARG:HG3	10:Y:43:TYR:H	1.33	0.92
3:R:43:ILE:HG21	3:R:63:ILE:HD11	1.49	0.92
3:R:1004:ARG:HH11	3:R:1025:GLY:H	1.18	0.92
1:Q:765:THR:HG22	1:Q:766:LEU:HD23	1.49	0.92
1:A:283:GLY:C	1:A:285:PRO:HD2	1.95	0.92
3:B:771:ASP:HB2	3:B:816:PRO:HD3	1.51	0.92
5:E:116:ASP:CG	5:E:117:THR:H	1.78	0.92
8:K:90:LEU:HD23	8:K:90:LEU:N	1.85	0.92
1:Q:90:ILE:HD11	1:Q:207:MET:HB3	1.50	0.92
3:B:537:ALA:HB2	3:B:557:HIS:NE2	1.83	0.92
3:B:781:ARG:CD	3:B:782:GLY:H	1.83	0.92
1:Q:238:LYS:NZ	1:Q:297:THR:CB	2.32	0.92
1:A:50:GLY:HA2	1:A:68:CYS:SG	2.09	0.92
2:C:120:PRO:HA	2:C:275:ASN:ND2	1.84	0.92
3:B:854:GLU:HA	3:B:859:ASN:O	1.70	0.92
11:P:26:CYS:HB2	11:P:27:PRO:HD2	1.49	0.92
2:G:120:PRO:HA	2:G:275:ASN:ND2	1.84	0.92
3:R:24:VAL:HG11	3:R:426:LEU:HD13	1.51	0.92
3:R:557:HIS:N	3:R:623:ASN:HD21	1.66	0.92
1:A:338:GLY:HA3	1:A:444:ARG:HG2	1.48	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:672:VAL:HG13	1:Q:700:ILE:HD12	1.49	0.92
5:T:116:ASP:CG	5:T:117:THR:H	1.78	0.92
1:Q:331:ASN:O	1:Q:332:ILE:HB	1.69	0.91
3:B:764:LYS:HZ3	3:B:814:VAL:H	0.96	0.91
1:A:308:ARG:NH2	3:B:1099:LEU:HD13	1.85	0.91
3:B:172:VAL:HG22	3:B:189:ILE:HD11	1.52	0.91
10:N:42:ARG:HG3	10:N:43:TYR:H	1.35	0.91
1:A:238:LYS:HZ1	1:A:297:THR:HB	0.79	0.91
2:C:55:ALA:HA	2:C:58:GLU:CG	2.00	0.91
1:Q:647:ARG:HH11	3:R:965:ASP:HB2	1.34	0.91
1:A:507:TYR:OH	1:A:727:VAL:HG13	1.71	0.91
2:C:391:ARG:HH11	2:C:391:ARG:HG3	1.36	0.91
7:V:12:ARG:H	7:V:12:ARG:CD	1.83	0.91
1:Q:293:ARG:HH11	1:Q:296:ARG:HH22	0.94	0.91
2:G:310:ILE:H	2:G:310:ILE:HD12	1.34	0.91
3:B:764:LYS:HZ3	3:B:814:VAL:N	1.69	0.91
1:Q:19:ILE:HA	1:Q:22:MET:HE2	1.52	0.91
1:Q:238:LYS:HZ2	1:Q:276:TYR:CA	1.83	0.91
3:R:781:ARG:CD	3:R:782:GLY:H	1.83	0.91
5:T:179:LYS:HZ3	6:U:79:THR:HB	1.36	0.91
1:Q:50:GLY:HA2	1:Q:68:CYS:SG	2.11	0.91
8:W:53:ILE:H	8:W:53:ILE:HD12	1.35	0.91
3:B:869:LEU:HD11	4:D:56:GLU:HB3	1.51	0.90
4:D:98:ILE:HD11	4:D:114:ILE:HG23	1.53	0.90
3:R:473:MET:HA	3:R:577:ARG:HH21	1.35	0.90
6:F:18:LYS:HE2	6:F:41:LEU:HB3	1.54	0.90
1:Q:354:THR:HB	1:Q:355:PRO:HD2	1.51	0.90
3:R:954:GLN:HA	3:R:957:ILE:HD11	1.54	0.90
3:B:759:SER:HB2	3:B:862:VAL:O	1.72	0.90
1:Q:283:GLY:C	1:Q:285:PRO:HD2	1.96	0.90
2:C:115:LYS:O	2:C:116:VAL:HG13	1.72	0.90
3:B:1004:ARG:HH11	3:B:1025:GLY:H	1.18	0.90
5:E:39:LEU:HD23	5:E:40:LYS:H	1.37	0.90
7:H:12:ARG:H	7:H:12:ARG:CD	1.82	0.90
2:C:390:MET:HB2	5:E:56:GLU:HG3	1.53	0.90
3:B:1069:TRP:CD1	3:B:1088:LEU:HD22	2.07	0.90
2:G:310:ILE:O	2:G:314:LEU:HD23	1.69	0.90
1:A:604:GLY:C	1:A:606:GLN:H	1.74	0.90
2:C:337:GLU:HG2	2:C:338:LYS:H	1.37	0.90
2:C:310:ILE:O	2:C:314:LEU:HD23	1.72	0.90
3:R:874:ILE:H	3:R:874:ILE:HD12	1.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:18:LYS:HE2	6:U:41:LEU:HB3	1.54	0.90
1:A:647:ARG:HH11	3:B:965:ASP:HB2	1.36	0.89
1:A:868:VAL:HG22	2:C:39:LYS:NZ	1.85	0.89
3:R:437:GLN:HB3	3:R:438:PRO:HD2	1.54	0.89
3:R:560:THR:HG22	3:R:562:PHE:N	1.86	0.89
3:R:221:ILE:HG21	3:R:226:LEU:HG	1.55	0.89
3:R:749:MET:HE1	3:R:907:ASP:HB3	1.55	0.89
3:R:854:GLU:HA	3:R:859:ASN:O	1.72	0.89
1:A:760:GLY:HA3	3:B:447:GLY:HA3	1.53	0.89
3:B:276:VAL:HG12	3:B:277:ALA:H	1.36	0.89
3:B:702:LEU:H	3:B:721:ASN:HD21	0.91	0.89
8:W:90:LEU:N	8:W:90:LEU:HD23	1.88	0.89
2:C:262:LEU:HD22	2:C:269:VAL:HG13	1.55	0.89
3:B:1050:LEU:HD23	3:B:1051:ASP:H	1.38	0.89
3:R:702:LEU:H	3:R:721:ASN:ND2	1.69	0.89
3:B:38:LYS:HG3	3:B:39:LEU:H	1.35	0.89
2:C:80:GLU:HB3	2:C:81:PRO:HD3	1.55	0.89
3:B:373:LYS:HE3	3:B:375:ARG:HD2	1.53	0.89
1:Q:365:VAL:HG11	1:Q:401:LEU:HD11	1.54	0.89
1:Q:637:ARG:HH11	3:R:974:ARG:HH12	1.19	0.89
3:R:276:VAL:HG12	3:R:277:ALA:H	1.38	0.89
3:R:588:LEU:HD13	3:R:612:LYS:HB3	1.51	0.89
4:S:44:VAL:HA	4:S:143:ALA:HA	1.55	0.89
11:Z:26:CYS:HB2	11:Z:27:PRO:HD2	1.55	0.89
2:C:289:ALA:O	2:C:292:ILE:HG22	1.73	0.89
3:B:700:ARG:HG3	3:B:714:THR:HG22	1.52	0.89
9:L:64:THR:HG22	9:L:65:PRO:HD2	1.52	0.89
1:A:600:LYS:HE3	1:A:732:GLY:HA2	1.55	0.89
5:E:179:LYS:NZ	6:F:79:THR:HB	1.88	0.89
1:Q:308:ARG:NH2	3:R:1099:LEU:HD13	1.86	0.89
3:R:554:ASN:HD21	3:R:576:ARG:HH21	1.15	0.89
1:A:249:LEU:HD13	1:A:266:TRP:CE3	2.07	0.88
2:C:340:SER:CB	2:C:371:GLU:HG2	2.02	0.88
3:B:1060:VAL:HG12	3:B:1065:GLY:HA3	1.54	0.88
1:Q:16:PRO:HD3	1:Q:206:TRP:CD1	2.06	0.88
1:Q:503:ILE:HD11	1:Q:733:ALA:N	1.88	0.88
2:G:340:SER:CB	2:G:371:GLU:HG2	2.02	0.88
3:B:851:LEU:HA	11:P:35:PHE:HB3	1.54	0.88
3:B:60:LEU:HD22	3:B:98:LEU:HD21	1.53	0.88
1:A:875:VAL:O	1:A:877:GLY:N	2.06	0.88
1:Q:203:ARG:HH11	1:Q:203:ARG:HG3	1.38	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:518:LYS:HE3	1:Q:544:GLU:HB2	1.56	0.88
3:B:437:GLN:HB3	3:B:438:PRO:HD2	1.52	0.88
4:D:230:ILE:HG13	4:D:242:LEU:HD21	1.56	0.88
1:Q:875:VAL:O	1:Q:877:GLY:N	2.07	0.88
1:Q:704:LEU:HD13	1:Q:781:PHE:HD1	1.37	0.88
3:R:602:ILE:HG22	3:R:603:THR:H	1.39	0.88
3:B:560:THR:HG22	3:B:562:PHE:N	1.86	0.88
3:B:1011:ILE:HD12	3:B:1011:ILE:H	1.37	0.88
8:K:39:ARG:HD3	8:K:74:LEU:HD23	1.53	0.88
10:N:3:ILE:H	10:N:3:ILE:HD12	1.36	0.88
5:T:179:LYS:HZ1	6:U:82:GLU:N	1.71	0.88
2:C:145:GLU:HA	2:C:239:ARG:H	1.36	0.88
3:B:416:ARG:NH1	3:B:687:ARG:NH2	2.21	0.88
1:Q:704:LEU:HD22	1:Q:781:PHE:CE1	2.09	0.88
1:A:290:ARG:HH11	1:A:291:SER:HB2	1.39	0.88
3:B:403:TRP:O	3:B:404:VAL:HG23	1.73	0.88
1:Q:421:ARG:HB2	1:Q:462:MET:HE3	1.54	0.88
1:Q:486:ILE:CD1	1:Q:628:MET:HE2	2.02	0.88
2:G:145:GLU:HA	2:G:239:ARG:H	1.38	0.88
1:A:503:ILE:HD11	1:A:733:ALA:N	1.89	0.88
1:A:590:ASN:ND2	3:R:377:ARG:HB2	1.88	0.88
3:R:771:ASP:HB2	3:R:816:PRO:HD3	1.54	0.88
5:E:79:PRO:HG3	5:E:160:ILE:HD11	1.54	0.87
1:A:548:GLY:O	1:A:551:VAL:HG12	1.73	0.87
1:Q:807:VAL:HG21	3:R:443:ARG:HD3	1.55	0.87
3:B:769:GLN:O	3:B:770:GLU:HB3	1.74	0.87
3:B:702:LEU:N	3:B:721:ASN:HD21	1.72	0.87
4:D:144:ARG:C	4:D:145:LEU:HD12	2.00	0.87
8:K:53:ILE:H	8:K:53:ILE:HD12	1.37	0.87
9:X:64:THR:HG22	9:X:65:PRO:HD2	1.54	0.87
1:A:742:GLN:HB2	3:B:919:MET:HE1	1.57	0.87
3:R:569:ASN:CB	3:R:574:ARG:HH22	1.88	0.87
3:R:1074:LYS:HB3	3:R:1076:LYS:HE2	1.56	0.87
3:B:554:ASN:HD21	3:B:576:ARG:HH21	1.17	0.87
1:Q:249:LEU:HD13	1:Q:266:TRP:CE3	2.08	0.87
2:G:55:ALA:HA	2:G:58:GLU:CG	2.03	0.87
1:A:16:PRO:HD3	1:A:206:TRP:CD1	2.09	0.87
1:A:19:ILE:HA	1:A:22:MET:HE2	1.55	0.87
1:A:532:ILE:HD11	9:L:56:LYS:HD3	1.57	0.87
10:N:38:LEU:HD23	10:N:39:GLY:H	1.40	0.87
1:Q:563:HIS:HB2	1:Q:872:PHE:HE2	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:536:LEU:HD11	3:R:540:ILE:HD12	1.57	0.87
3:R:773:ILE:HG12	3:R:813:LYS:HG2	1.57	0.87
1:A:518:LYS:HE3	1:A:544:GLU:HB2	1.56	0.86
3:B:749:MET:HE1	3:B:907:ASP:HB3	1.57	0.86
11:P:46:LYS:H	11:P:46:LYS:CD	1.88	0.86
4:S:230:ILE:HG13	4:S:242:LEU:HD21	1.57	0.86
5:T:39:LEU:HD23	5:T:40:LYS:H	1.40	0.86
3:B:497:VAL:HG12	3:B:498:GLU:N	1.90	0.86
3:B:1080:PRO:O	3:B:1081:ILE:HG13	1.75	0.86
4:D:40:ALA:HB3	4:D:156:PHE:HE2	1.41	0.86
3:R:416:ARG:NH1	3:R:687:ARG:NH2	2.23	0.86
3:R:650:ILE:H	3:R:650:ILE:CD1	1.88	0.86
3:R:851:LEU:HA	11:Z:35:PHE:HB3	1.57	0.86
3:R:1069:TRP:CD1	3:R:1088:LEU:HD22	2.10	0.86
3:R:517:TRP:HD1	3:R:531:GLN:H	1.20	0.86
3:R:1011:ILE:HD12	3:R:1011:ILE:H	1.39	0.86
1:A:749:GLN:N	1:A:781:PHE:HA	1.89	0.86
3:B:339:ALA:HB2	3:B:618:ALA:HB3	1.58	0.86
4:D:190:LEU:CD2	4:D:195:LEU:HA	2.05	0.86
2:G:290:ARG:HG3	2:G:321:THR:OG1	1.75	0.86
2:G:393:ILE:HG21	2:G:395:ARG:HH21	1.41	0.86
3:R:943:THR:HG22	3:R:944:PRO:HD2	1.55	0.86
1:Q:491:TYR:HB3	1:Q:607:GLN:OE1	1.73	0.86
1:Q:749:GLN:N	1:Q:781:PHE:HA	1.90	0.86
2:G:392:PRO:HB3	5:T:22:LEU:HD11	1.58	0.86
3:R:172:VAL:HG22	3:R:189:ILE:HD11	1.54	0.86
3:R:769:GLN:O	3:R:770:GLU:HB3	1.75	0.86
3:B:943:THR:HG22	3:B:944:PRO:HD2	1.55	0.86
2:G:115:LYS:O	2:G:116:VAL:HG13	1.74	0.86
4:S:108:MET:HE1	10:Y:2:LEU:HD21	1.56	0.86
7:V:42:LEU:HD11	7:V:80:TYR:HB2	1.58	0.86
1:Q:742:GLN:HB2	3:R:919:MET:HE1	1.57	0.86
2:G:270:ALA:HA	7:V:14:HIS:ND1	1.91	0.86
3:R:569:ASN:HB3	3:R:574:ARG:NH2	1.91	0.85
3:R:700:ARG:HG3	3:R:714:THR:HG22	1.55	0.85
10:N:7:CYS:HB3	10:N:45:CYS:SG	2.16	0.85
1:A:4:LYS:HD3	3:B:1091:VAL:HB	1.59	0.85
3:B:797:VAL:HB	11:P:36:MET:HE1	1.56	0.85
11:P:46:LYS:HD2	11:P:46:LYS:N	1.90	0.85
3:R:587:PRO:O	3:R:588:LEU:HD23	1.76	0.85
4:S:190:LEU:CD2	4:S:195:LEU:HA	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W:39:ARG:HD3	8:W:74:LEU:HD23	1.57	0.85
3:B:539:LYS:O	3:B:543:ARG:HG3	1.75	0.85
1:Q:290:ARG:HH11	1:Q:291:SER:HB2	1.40	0.85
1:Q:507:TYR:OH	1:Q:727:VAL:HG13	1.77	0.85
3:R:560:THR:HB	3:R:563:ILE:HB	1.57	0.85
2:C:290:ARG:HG3	2:C:321:THR:OG1	1.76	0.85
11:Z:46:LYS:H	11:Z:46:LYS:CD	1.89	0.85
11:Z:46:LYS:HD2	11:Z:46:LYS:N	1.90	0.85
3:B:569:ASN:CB	3:B:574:ARG:HH22	1.90	0.85
8:K:63:SER:C	8:K:65:ALA:H	1.85	0.85
1:Q:473:ILE:HD12	1:Q:474:ALA:N	1.90	0.85
3:R:248:VAL:HG11	3:R:329:ARG:HH12	1.42	0.85
1:A:853:ASP:HB2	2:C:311:ARG:HH12	1.41	0.85
3:B:458:THR:CG2	3:B:465:GLY:H	1.88	0.85
3:R:338:TYR:HB2	3:R:448:THR:HG21	1.57	0.85
3:R:458:THR:CG2	3:R:465:GLY:H	1.90	0.85
1:Q:256:GLY:O	1:Q:258:PRO:HD3	1.77	0.85
2:G:391:ARG:HG3	2:G:391:ARG:HH11	1.41	0.85
2:C:244:LYS:HE2	2:C:247:ASP:HA	1.59	0.85
2:G:104:LEU:HB3	2:G:105:PRO:HD3	1.56	0.85
1:A:331:ASN:O	1:A:332:ILE:HB	1.75	0.84
1:A:558:LYS:HG3	3:R:104:GLU:HB2	1.59	0.84
1:A:563:HIS:HB2	1:A:872:PHE:HE2	1.41	0.84
3:R:672:MET:HG2	3:R:993:LEU:HD21	1.59	0.84
1:A:491:TYR:HB3	1:A:607:GLN:OE1	1.78	0.84
7:H:11:PRO:HG2	7:H:50:PRO:O	1.76	0.84
1:Q:317:ARG:HA	3:R:1027:ARG:HA	1.58	0.84
1:A:238:LYS:HZ2	1:A:276:TYR:CA	1.91	0.84
3:B:119:LEU:HD12	3:B:120:PRO:HD2	1.58	0.84
3:B:325:LEU:HD21	3:B:332:PRO:HD3	1.59	0.84
3:B:874:ILE:HD12	3:B:874:ILE:N	1.91	0.84
3:B:1014:ARG:HG3	3:B:1095:TYR:CD2	2.13	0.84
10:N:7:CYS:SG	10:N:48:MET:HG3	2.17	0.84
1:A:486:ILE:CD1	1:A:628:MET:HE2	2.04	0.84
2:C:70:ILE:HA	2:C:73:VAL:HG22	1.60	0.84
2:C:389:THR:HG21	8:K:79:ARG:NH1	1.93	0.84
3:B:418:ASN:HD21	3:B:420:LEU:HB3	1.43	0.84
3:B:587:PRO:O	3:B:588:LEU:HD23	1.76	0.84
3:B:851:LEU:HG	11:P:35:PHE:HD2	1.39	0.84
1:A:742:GLN:CB	3:B:919:MET:HE1	2.08	0.84
1:Q:828:SER:HB2	2:G:72:ILE:HD11	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:352:ARG:HD3	1:A:406:ILE:HD12	1.57	0.84
5:E:75:ILE:HG21	6:F:21:LEU:HD21	1.59	0.84
1:Q:742:GLN:CB	3:R:919:MET:HE1	2.07	0.84
2:G:244:LYS:HE2	2:G:247:ASP:HA	1.59	0.84
3:R:922:GLY:HA2	3:R:925:MET:HB2	1.58	0.84
3:B:536:LEU:HD11	3:B:540:ILE:HD12	1.59	0.84
2:G:262:LEU:HD22	2:G:269:VAL:HG13	1.58	0.84
3:R:696:HIS:ND1	4:S:57:ILE:HD11	1.92	0.84
4:S:144:ARG:C	4:S:145:LEU:HD12	2.03	0.84
1:A:527:VAL:HG13	1:A:630:ASN:HB3	1.59	0.83
3:B:473:MET:HA	3:B:577:ARG:HH21	1.38	0.83
3:R:803:GLU:HB3	3:R:805:LYS:NZ	1.92	0.83
1:A:290:ARG:NH1	1:A:291:SER:HB2	1.92	0.83
1:A:365:VAL:HG11	1:A:401:LEU:HD11	1.60	0.83
1:A:446:ASN:C	1:A:446:ASN:HD22	1.86	0.83
3:B:191:SER:HA	3:B:300:HIS:NE2	1.92	0.83
2:G:274:THR:HG22	2:G:275:ASN:N	1.92	0.83
1:A:317:ARG:HA	3:B:1027:ARG:HA	1.60	0.83
1:A:502:TYR:HE1	1:A:636:ILE:HD11	1.43	0.83
3:B:403:TRP:C	3:B:404:VAL:HG23	2.01	0.83
10:N:60:ILE:HG23	10:N:61:HIS:H	1.40	0.83
3:R:189:ILE:HB	3:R:203:GLU:HB2	1.60	0.83
3:R:204:ARG:HB2	3:R:213:SER:OG	1.78	0.83
3:B:579:LEU:HD12	3:B:616:LEU:HD12	1.58	0.83
1:Q:548:GLY:O	1:Q:551:VAL:HG12	1.78	0.83
3:B:315:LEU:O	3:B:319:ILE:HG12	1.79	0.83
4:D:131:VAL:HG22	4:D:132:LEU:N	1.90	0.83
1:Q:527:VAL:HG13	1:Q:630:ASN:HB3	1.60	0.83
3:R:60:LEU:HD22	3:R:98:LEU:HD21	1.58	0.83
3:R:451:GLY:H	3:R:647:ILE:HG23	1.42	0.83
3:B:330:ARG:O	3:B:331:GLU:HB2	1.78	0.83
3:B:338:TYR:HB2	3:B:448:THR:HG21	1.60	0.83
3:B:517:TRP:HD1	3:B:531:GLN:H	1.23	0.83
10:N:64:ARG:H	10:N:64:ARG:HD3	1.42	0.83
3:R:1014:ARG:HG3	3:R:1095:TYR:CD2	2.14	0.83
1:Q:369:PRO:CB	1:Q:376:ASN:HB3	2.08	0.83
1:Q:647:ARG:NH1	3:R:965:ASP:HB2	1.93	0.83
3:R:582:VAL:HG13	3:R:586:ASN:N	1.93	0.83
10:Y:60:ILE:HG23	10:Y:61:HIS:H	1.43	0.83
3:B:582:VAL:HG13	3:B:586:ASN:N	1.94	0.83
1:Q:290:ARG:NH1	1:Q:291:SER:HB2	1.94	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:591:ILE:H	3:R:591:ILE:HD12	1.43	0.83
1:A:219:ILE:H	1:A:219:ILE:HD13	1.43	0.83
3:B:591:ILE:H	3:B:591:ILE:HD12	1.41	0.83
2:G:337:GLU:HG2	2:G:338:LYS:H	1.44	0.83
2:G:391:ARG:HH22	8:W:39:ARG:NH1	1.75	0.83
3:R:702:LEU:N	3:R:721:ASN:HD21	1.76	0.83
3:B:702:LEU:HD13	10:N:47:ARG:CZ	2.08	0.83
3:R:330:ARG:O	3:R:331:GLU:HB2	1.79	0.83
3:R:665:ARG:HG3	3:R:920:THR:HG21	1.60	0.83
3:B:59:ARG:HH22	3:B:107:ILE:HB	1.44	0.82
3:R:873:THR:HG22	3:R:874:ILE:N	1.94	0.82
4:S:108:MET:HE1	10:Y:2:LEU:CD2	2.09	0.82
5:T:53:THR:HB	5:T:71:GLU:N	1.92	0.82
7:V:28:ALA:HB1	7:V:62:ILE:HD11	1.60	0.82
3:B:220:LYS:H	3:B:275:ARG:NH1	1.77	0.82
3:B:1069:TRP:CH2	3:B:1077:TYR:HB2	2.14	0.82
1:Q:716:SER:HB2	1:Q:726:TYR:OH	1.79	0.82
1:Q:853:ASP:HB2	2:G:311:ARG:HH12	1.44	0.82
5:T:39:LEU:HD22	5:T:42:LEU:HG	1.61	0.82
1:A:647:ARG:NH1	3:B:965:ASP:HB2	1.95	0.82
3:B:904:VAL:HG21	10:N:42:ARG:HE	1.42	0.82
3:R:98:LEU:HD12	3:R:116:ILE:HD11	1.61	0.82
4:S:25:VAL:HG21	4:S:226:TYR:HD1	1.45	0.82
1:A:421:ARG:HB2	1:A:462:MET:HE3	1.61	0.82
1:A:691:THR:HG22	1:A:692:LEU:HD12	1.58	0.82
3:B:1072:LYS:HG2	3:B:1077:TYR:HB3	1.59	0.82
2:G:57:LYS:HA	2:G:57:LYS:HE3	1.59	0.82
3:R:497:VAL:HG12	3:R:498:GLU:N	1.91	0.82
3:R:902:LYS:HB2	10:Y:42:ARG:NH1	1.94	0.82
3:B:246:PRO:HG2	3:B:249:GLN:HG2	1.59	0.82
3:B:490:TYR:HE1	3:B:527:ILE:HG21	1.43	0.82
3:R:220:LYS:H	3:R:275:ARG:NH1	1.77	0.82
4:S:40:ALA:HB3	4:S:156:PHE:HE2	1.45	0.82
2:C:57:LYS:HA	2:C:57:LYS:HE3	1.62	0.82
3:B:453:MET:HG2	3:B:468:LYS:HD2	1.61	0.82
5:E:39:LEU:HD22	5:E:42:LEU:HG	1.62	0.82
6:U:19:LYS:HG3	6:U:49:ALA:HB2	1.60	0.82
10:Y:64:ARG:H	10:Y:64:ARG:HD3	1.44	0.82
3:B:497:VAL:HG23	3:B:527:ILE:O	1.80	0.82
3:B:560:THR:HB	3:B:563:ILE:HB	1.58	0.82
4:D:44:VAL:HA	4:D:143:ALA:HA	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:53:LEU:HD22	4:D:57:ILE:HG21	1.62	0.82
7:H:42:LEU:HD11	7:H:80:TYR:HB2	1.60	0.82
3:R:373:LYS:HE3	3:R:375:ARG:HD2	1.60	0.82
8:W:63:SER:C	8:W:65:ALA:H	1.86	0.82
1:A:747:LEU:HD11	1:A:790:LEU:HD21	1.60	0.82
2:C:16:LYS:HZ1	3:R:75:ARG:HH12	1.24	0.82
3:B:803:GLU:HB3	3:B:805:LYS:NZ	1.94	0.82
3:B:933:ALA:HB3	10:N:47:ARG:HH12	1.44	0.82
3:R:59:ARG:HH22	3:R:107:ILE:HB	1.44	0.82
5:T:79:PRO:HG3	5:T:160:ILE:HD11	1.59	0.82
1:A:704:LEU:HD13	1:A:781:PHE:HD1	1.43	0.82
1:A:807:VAL:HG21	3:B:443:ARG:HD3	1.61	0.82
2:C:393:ILE:HG21	2:C:395:ARG:HH21	1.45	0.82
3:B:569:ASN:HB3	3:B:574:ARG:NH2	1.94	0.82
5:E:82:GLN:HA	5:E:145:ARG:HG3	1.62	0.82
7:H:28:ALA:HB1	7:H:62:ILE:HD11	1.60	0.82
1:Q:475:GLU:CD	2:G:383:THR:HG21	2.05	0.82
2:G:269:VAL:HA	2:G:272:VAL:HG23	1.62	0.82
3:R:246:PRO:HG2	3:R:249:GLN:HG2	1.60	0.82
3:R:418:ASN:HD21	3:R:420:LEU:HB3	1.43	0.82
3:R:490:TYR:HE1	3:R:527:ILE:HG21	1.43	0.82
1:A:203:ARG:HH11	1:A:203:ARG:HG3	1.43	0.81
3:B:355:ARG:NH1	3:B:355:ARG:HB2	1.95	0.81
3:B:874:ILE:H	3:B:874:ILE:CD1	1.91	0.81
1:A:704:LEU:HD22	1:A:781:PHE:CE1	2.13	0.81
3:B:248:VAL:HG11	3:B:329:ARG:HH12	1.43	0.81
3:B:700:ARG:O	10:N:51:SER:HB2	1.80	0.81
3:R:325:LEU:HD21	3:R:332:PRO:HD3	1.60	0.81
7:V:11:PRO:HG2	7:V:50:PRO:O	1.80	0.81
1:A:238:LYS:NZ	1:A:297:THR:CB	2.37	0.81
3:B:650:ILE:H	3:B:650:ILE:CD1	1.90	0.81
10:N:38:LEU:HD23	10:N:39:GLY:N	1.95	0.81
3:R:191:SER:HA	3:R:300:HIS:NE2	1.94	0.81
3:R:453:MET:HG2	3:R:468:LYS:HD2	1.60	0.81
3:R:665:ARG:HG3	3:R:920:THR:CG2	2.10	0.81
3:R:687:ARG:NH1	3:R:689:ASP:OD1	2.13	0.81
3:R:726:VAL:HG12	3:R:912:PRO:HG3	1.61	0.81
3:B:204:ARG:HB2	3:B:213:SER:OG	1.79	0.81
3:B:403:TRP:CG	3:B:404:VAL:H	1.97	0.81
3:R:539:LYS:O	3:R:543:ARG:HG3	1.79	0.81
3:B:795:ASN:HD21	11:P:36:MET:HE2	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:4:LYS:NZ	3:R:1115:LEU:HB3	1.95	0.81
3:R:119:LEU:HD12	3:R:120:PRO:HD2	1.61	0.81
3:R:579:LEU:HD12	3:R:616:LEU:HD12	1.61	0.81
3:R:1050:LEU:HD23	3:R:1051:ASP:H	1.42	0.81
3:B:589:VAL:O	3:B:591:ILE:N	2.14	0.81
3:B:602:ILE:HG22	3:B:603:THR:H	1.43	0.81
1:Q:691:THR:HG22	1:Q:692:LEU:HD12	1.61	0.81
4:S:66:PRO:HB2	4:S:124:ILE:HG12	1.61	0.81
10:Y:38:LEU:HD23	10:Y:39:GLY:H	1.46	0.81
3:B:962:TYR:OH	10:N:42:ARG:HD2	1.80	0.81
5:E:53:THR:HB	5:E:71:GLU:N	1.95	0.81
3:R:50:PRO:HG2	3:R:51:THR:H	1.46	0.81
1:A:279:ASN:HB2	1:A:297:THR:CG2	2.10	0.81
1:A:743:MET:O	1:A:785:SER:HB2	1.80	0.81
3:B:14:ILE:O	3:B:17:TYR:HB3	1.80	0.81
3:B:848:ASP:HB2	3:B:867:ARG:HB2	1.61	0.81
3:B:1004:ARG:HH21	3:B:1007:GLY:H	1.29	0.81
3:R:700:ARG:O	10:Y:51:SER:HB2	1.80	0.81
3:R:851:LEU:HG	11:Z:35:PHE:HD2	1.44	0.81
5:T:53:THR:HG23	5:T:55:GLU:HG3	1.63	0.81
1:A:238:LYS:NZ	1:A:276:TYR:HA	1.95	0.81
2:G:390:MET:HB2	5:T:56:GLU:CG	2.11	0.81
3:R:197:ARG:HH22	3:R:359:LYS:HG2	1.46	0.81
3:R:403:TRP:C	3:R:404:VAL:HG23	2.04	0.81
3:R:813:LYS:O	3:R:814:VAL:HG23	1.80	0.81
3:R:902:LYS:HB3	10:Y:42:ARG:HD3	1.64	0.81
3:R:403:TRP:CG	3:R:404:VAL:H	1.99	0.80
3:R:933:ALA:HB3	10:Y:47:ARG:HH12	1.46	0.80
4:D:190:LEU:HD22	4:D:195:LEU:CA	2.12	0.80
3:R:88:ARG:NH1	3:R:854:GLU:O	2.13	0.80
3:B:451:GLY:H	3:B:647:ILE:HG23	1.44	0.80
3:R:962:TYR:OH	10:Y:42:ARG:HD2	1.81	0.80
1:A:276:TYR:HD2	1:A:277:PHE:CE1	1.98	0.80
1:A:369:PRO:CB	1:A:376:ASN:HB3	2.11	0.80
3:B:557:HIS:H	3:B:623:ASN:ND2	1.78	0.80
3:B:813:LYS:O	3:B:814:VAL:HG23	1.81	0.80
2:G:120:PRO:HA	2:G:275:ASN:HD21	1.46	0.80
7:V:45:ILE:HG22	7:V:80:TYR:H	1.45	0.80
1:A:181:ARG:O	1:A:185:GLU:HG3	1.82	0.80
2:G:85:MET:HB3	2:G:304:GLN:OE1	1.82	0.80
3:R:248:VAL:HG21	3:R:329:ARG:HH22	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:361:PHE:HE1	3:R:385:VAL:HG13	1.45	0.80
4:S:13:ILE:CD1	4:S:238:PRO:HB2	2.12	0.80
1:Q:747:LEU:HD11	1:Q:790:LEU:HD21	1.63	0.80
3:R:403:TRP:O	3:R:404:VAL:HG23	1.81	0.80
3:R:589:VAL:O	3:R:591:ILE:N	2.14	0.80
3:B:355:ARG:HB2	3:B:355:ARG:HH11	1.47	0.80
3:B:386:ARG:HB2	3:B:389:ILE:HD11	1.64	0.80
2:G:379:ILE:HD11	3:R:1042:ALA:HA	1.62	0.80
3:R:1047:ASP:HA	3:R:1051:ASP:HB2	1.64	0.80
5:T:82:GLN:HA	5:T:145:ARG:HG3	1.63	0.80
2:C:269:VAL:HA	2:C:272:VAL:HG23	1.63	0.80
3:B:88:ARG:NH1	3:B:854:GLU:O	2.14	0.80
3:B:183:ILE:HB	3:B:207:ASP:C	2.05	0.80
3:B:189:ILE:HB	3:B:203:GLU:HB2	1.61	0.80
5:E:53:THR:HG23	5:E:55:GLU:HG3	1.63	0.80
2:G:28:ILE:HB	8:W:18:VAL:HG21	1.64	0.80
3:R:764:LYS:NZ	3:R:814:VAL:H	1.79	0.80
4:S:34:LEU:HD22	4:S:151:LYS:HB2	1.63	0.80
4:S:37:PRO:HA	4:S:148:GLY:O	1.82	0.80
4:S:175:ASN:HA	4:S:195:LEU:CD1	2.11	0.80
2:C:392:PRO:HB3	5:E:22:LEU:HD11	1.64	0.80
3:B:318:ALA:O	3:B:321:LYS:HB2	1.81	0.80
3:B:475:GLN:HG2	3:B:476:ILE:H	1.46	0.80
3:B:702:LEU:HD13	10:N:47:ARG:NE	1.96	0.80
5:E:107:LEU:HD12	5:E:108:VAL:H	1.45	0.80
1:Q:721:PRO:HA	1:Q:726:TYR:HD1	1.46	0.80
3:R:318:ALA:O	3:R:321:LYS:HB2	1.82	0.80
3:R:1080:PRO:O	3:R:1081:ILE:HG13	1.81	0.80
4:S:131:VAL:HG22	4:S:132:LEU:N	1.93	0.80
1:A:57:LYS:HD2	1:A:60:THR:HA	1.65	0.79
3:B:855:THR:HB	3:B:857:GLU:HG2	1.64	0.79
5:T:38:ILE:HG22	5:T:39:LEU:H	1.47	0.79
5:T:107:LEU:HD12	5:T:108:VAL:H	1.46	0.79
6:F:19:LYS:HG3	6:F:49:ALA:HB2	1.62	0.79
3:R:450:TRP:HZ2	3:R:641:GLU:OE1	1.64	0.79
3:R:1014:ARG:HG2	3:R:1014:ARG:HH11	1.48	0.79
7:V:12:ARG:HD3	7:V:12:ARG:N	1.96	0.79
1:A:245:ILE:HD13	1:A:268:LEU:HB3	1.65	0.79
1:A:764:ARG:HB3	1:A:764:ARG:HH11	1.47	0.79
3:B:98:LEU:HD12	3:B:116:ILE:HD11	1.61	0.79
3:R:1004:ARG:NH1	3:R:1025:GLY:H	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:3:ILE:H	10:Y:3:ILE:HD12	1.47	0.79
1:A:256:GLY:O	1:A:258:PRO:HD3	1.81	0.79
3:B:249:GLN:HG3	3:B:250:ASN:N	1.98	0.79
1:Q:764:ARG:HB3	1:Q:764:ARG:HH11	1.47	0.79
3:R:248:VAL:HA	3:R:251:GLU:OE2	1.83	0.79
3:R:315:LEU:O	3:R:319:ILE:HG12	1.83	0.79
3:R:801:GLU:HG3	11:Z:38:ARG:NH2	1.98	0.79
3:R:579:LEU:O	3:R:613:ILE:HG23	1.83	0.79
3:B:248:VAL:HG21	3:B:329:ARG:HH22	1.47	0.79
3:B:687:ARG:NH1	3:B:689:ASP:OD1	2.16	0.79
1:Q:181:ARG:O	1:Q:185:GLU:HG3	1.82	0.79
1:Q:541:ALA:HB1	1:Q:542:PRO:HD3	1.65	0.79
3:R:386:ARG:HB2	3:R:389:ILE:HD11	1.64	0.79
3:R:702:LEU:HD13	10:Y:47:ARG:CZ	2.13	0.79
4:S:53:LEU:HD22	4:S:57:ILE:HG21	1.63	0.79
1:A:289:HIS:HB2	1:A:295:LEU:HD21	1.64	0.79
3:B:64:ARG:O	3:B:97:TRP:HB2	1.83	0.79
3:B:223:PHE:CE1	3:B:227:MET:HG3	2.18	0.79
1:Q:452:PRO:HA	1:Q:495:ILE:HD11	1.63	0.79
8:W:92:LEU:O	8:W:92:LEU:HD23	1.82	0.79
1:A:830:LEU:CD2	1:A:840:SER:HB3	2.13	0.79
3:B:739:ILE:HG23	3:B:909:ILE:HB	1.63	0.79
7:H:12:ARG:HD3	7:H:12:ARG:N	1.96	0.79
1:Q:16:PRO:HD3	1:Q:206:TRP:HD1	1.45	0.79
3:R:874:ILE:HD12	3:R:874:ILE:N	1.98	0.79
4:S:190:LEU:HD22	4:S:195:LEU:CA	2.12	0.79
5:T:179:LYS:NZ	6:U:81:ASP:HB2	1.98	0.79
3:R:355:ARG:NH1	3:R:355:ARG:HB2	1.98	0.79
3:R:602:ILE:HG22	3:R:603:THR:N	1.96	0.79
2:C:310:ILE:HD12	2:C:310:ILE:N	1.98	0.79
1:Q:216:PRO:HG2	1:Q:219:ILE:HD12	1.65	0.79
1:Q:397:LEU:HA	1:Q:400:THR:OG1	1.83	0.79
2:G:391:ARG:HH21	8:W:42:GLN:CD	1.90	0.79
4:S:68:MET:HE2	4:S:68:MET:HA	1.65	0.79
1:Q:324:THR:HG22	1:Q:325:VAL:H	1.47	0.78
1:Q:723:ASN:ND2	1:Q:723:ASN:C	2.40	0.78
3:B:922:GLY:HA2	3:B:925:MET:HB2	1.65	0.78
10:N:1:MET:HB3	10:N:56:ILE:HD13	1.65	0.78
3:R:739:ILE:HG23	3:R:909:ILE:HB	1.63	0.78
3:R:890:MET:HE2	3:R:891:LEU:H	1.47	0.78
1:A:301:ARG:O	1:A:302:LEU:HG	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:475:GLU:CD	2:C:383:THR:HG21	2.08	0.78
1:A:716:SER:HB2	1:A:726:TYR:OH	1.83	0.78
1:A:721:PRO:HA	1:A:726:TYR:HD1	1.49	0.78
3:B:89:ASN:HD21	3:B:863:LYS:HZ1	1.31	0.78
1:Q:14:LEU:HB3	3:R:1108:ILE:HG23	1.64	0.78
5:T:41:ASP:C	5:T:42:LEU:HD23	2.07	0.78
1:A:14:LEU:HB3	3:B:1108:ILE:HG23	1.66	0.78
1:A:59:PRO:O	1:A:60:THR:HG22	1.84	0.78
2:C:120:PRO:HA	2:C:275:ASN:HD21	1.47	0.78
2:C:145:GLU:HG2	2:C:240:ALA:H	1.47	0.78
3:B:248:VAL:HA	3:B:251:GLU:OE2	1.84	0.78
3:R:14:ILE:O	3:R:17:TYR:HB3	1.83	0.78
10:Y:38:LEU:HD23	10:Y:39:GLY:N	1.98	0.78
1:A:477:LYS:O	1:A:481:LEU:HB2	1.82	0.78
2:G:383:THR:HG22	3:R:1042:ALA:H	1.47	0.78
3:R:650:ILE:HD13	3:R:650:ILE:N	1.97	0.78
1:A:293:ARG:NH1	1:A:296:ARG:HH22	1.79	0.78
1:A:334:ILE:HD11	1:A:628:MET:HB3	1.64	0.78
1:A:530:VAL:O	1:A:530:VAL:HG13	1.81	0.78
3:B:234:THR:HG22	3:B:236:ARG:H	1.49	0.78
1:Q:219:ILE:H	1:Q:219:ILE:HD13	1.47	0.78
1:A:509:LEU:O	1:A:548:GLY:HA3	1.84	0.78
3:B:602:ILE:HG22	3:B:603:THR:N	1.98	0.78
3:B:873:THR:HG22	3:B:874:ILE:N	1.96	0.78
4:D:66:PRO:HB2	4:D:124:ILE:HG12	1.65	0.78
3:R:355:ARG:HB2	3:R:355:ARG:HH11	1.49	0.78
3:R:1072:LYS:HG2	3:R:1077:TYR:HB3	1.63	0.78
2:C:28:ILE:HD13	8:K:14:HIS:CB	2.14	0.78
3:B:773:ILE:HG12	3:B:813:LYS:HG2	1.64	0.78
5:E:135:VAL:H	5:E:174:TRP:HZ2	1.31	0.78
1:Q:59:PRO:O	1:Q:60:THR:HG22	1.84	0.78
1:Q:600:LYS:HB2	1:Q:732:GLY:HA3	1.65	0.78
3:R:1069:TRP:CH2	3:R:1077:TYR:HB2	2.17	0.78
5:T:142:VAL:HG12	5:T:171:LYS:HA	1.65	0.78
2:C:329:ILE:HA	2:C:334:VAL:CG1	2.11	0.78
3:B:450:TRP:HZ2	3:B:641:GLU:OE1	1.66	0.78
4:D:175:ASN:HA	4:D:195:LEU:CD1	2.14	0.78
3:R:435:ARG:HG2	3:R:435:ARG:HH11	1.49	0.78
3:B:445:LEU:HD21	3:B:455:PRO:HA	1.64	0.78
3:B:1033:ARG:HH11	3:B:1033:ARG:HG3	1.49	0.78
4:D:25:VAL:HG21	4:D:226:TYR:HD1	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:177:GLU:HB2	4:D:178:LYS:NZ	1.99	0.78
1:Q:336:GLU:HA	1:Q:434:ARG:O	1.84	0.78
1:Q:563:HIS:HB2	1:Q:872:PHE:CE2	2.18	0.78
2:G:111:VAL:CG1	2:G:329:ILE:HD12	2.14	0.78
3:R:234:THR:HG22	3:R:236:ARG:H	1.49	0.78
3:B:650:ILE:HD13	3:B:650:ILE:N	1.98	0.77
3:B:852:ILE:HG23	3:B:862:VAL:HG22	1.66	0.77
1:Q:276:TYR:HD2	1:Q:277:PHE:CE1	2.01	0.77
1:Q:293:ARG:HG2	1:Q:296:ARG:NH2	2.00	0.77
2:G:70:ILE:HA	2:G:73:VAL:HG22	1.65	0.77
1:A:324:THR:HG22	1:A:325:VAL:H	1.47	0.77
1:Q:589:LYS:NZ	1:Q:879:LYS:H	1.81	0.77
3:R:361:PHE:CE1	3:R:385:VAL:HG13	2.18	0.77
3:R:591:ILE:CG1	3:R:612:LYS:HZ3	1.97	0.77
7:V:15:TYR:HB3	7:V:16:LEU:HD12	1.66	0.77
10:Y:7:CYS:HB3	10:Y:45:CYS:SG	2.24	0.77
3:B:749:MET:HB2	10:N:8:PHE:CD1	2.19	0.77
4:D:68:MET:HE3	4:D:124:ILE:HG22	1.66	0.77
3:R:557:HIS:H	3:R:623:ASN:ND2	1.82	0.77
3:R:749:MET:HB2	10:Y:8:PHE:CD1	2.20	0.77
4:S:4:ASN:HA	9:X:90:LEU:HD22	1.66	0.77
5:T:18:PHE:HB2	8:W:48:PRO:HD2	1.65	0.77
1:A:339:VAL:HG21	1:A:435:VAL:HG23	1.65	0.77
1:A:728:MET:CE	3:B:913:HIS:HA	2.15	0.77
3:B:435:ARG:HG2	3:B:435:ARG:HH11	1.48	0.77
3:B:918:ARG:O	3:B:920:THR:HG23	1.85	0.77
3:B:1047:ASP:HA	3:B:1051:ASP:HB2	1.66	0.77
1:Q:464:LEU:HD13	1:Q:465:HIS:N	2.00	0.77
2:G:392:PRO:CB	5:T:22:LEU:HD21	2.14	0.77
3:R:497:VAL:HG23	3:R:527:ILE:O	1.84	0.77
3:R:554:ASN:ND2	3:R:576:ARG:HH21	1.82	0.77
3:R:757:LEU:HD23	3:R:758:TYR:N	2.00	0.77
3:R:803:GLU:HB3	3:R:805:LYS:HZ1	1.50	0.77
3:R:965:ASP:O	3:R:967:THR:N	2.17	0.77
5:T:145:ARG:NH2	5:T:169:LEU:HD11	2.00	0.77
2:C:28:ILE:HD13	8:K:14:HIS:HB3	1.66	0.77
3:B:726:VAL:HG12	3:B:912:PRO:HG3	1.66	0.77
3:B:764:LYS:NZ	3:B:814:VAL:H	1.81	0.77
3:B:965:ASP:O	3:B:967:THR:N	2.18	0.77
1:Q:57:LYS:HD2	1:Q:60:THR:HA	1.67	0.77
1:Q:289:HIS:HB2	1:Q:295:LEU:HD21	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:830:LEU:CD2	1:Q:840:SER:HB3	2.14	0.77
3:R:301:LEU:HD22	3:R:483:ARG:HH21	1.49	0.77
4:D:148:GLY:HA3	4:D:156:PHE:CD1	2.20	0.77
6:F:14:TYR:CD1	6:F:74:SER:HB2	2.19	0.77
7:H:15:TYR:HB3	7:H:16:LEU:HD12	1.67	0.77
2:G:281:GLU:OE1	2:G:326:VAL:HG12	1.84	0.77
3:R:749:MET:HG2	3:R:750:TYR:CD1	2.20	0.77
3:R:1004:ARG:HH21	3:R:1007:GLY:H	1.33	0.77
4:S:68:MET:HE3	4:S:124:ILE:HG22	1.65	0.77
1:A:723:ASN:ND2	1:A:723:ASN:C	2.41	0.77
3:B:361:PHE:HE1	3:B:385:VAL:HG13	1.49	0.77
3:B:902:LYS:HB2	10:N:42:ARG:NH1	2.00	0.77
2:C:391:ARG:HH21	8:K:42:GLN:CD	1.92	0.77
3:B:702:LEU:HB3	10:N:47:ARG:NH2	1.98	0.77
1:Q:90:ILE:HG21	1:Q:208:ILE:HD11	1.67	0.77
1:Q:238:LYS:NZ	1:Q:276:TYR:HA	2.00	0.77
1:Q:509:LEU:O	1:Q:548:GLY:HA3	1.84	0.77
3:R:1033:ARG:HH11	3:R:1033:ARG:HG3	1.50	0.77
5:T:75:ILE:HG21	6:U:21:LEU:HD21	1.67	0.77
7:V:45:ILE:HB	7:V:79:ARG:HB3	1.67	0.77
10:Y:1:MET:HE2	10:Y:56:ILE:HD12	1.66	0.77
3:B:50:PRO:HG2	3:B:51:THR:H	1.50	0.77
1:Q:262:ILE:HG12	1:Q:266:TRP:NE1	2.00	0.77
1:Q:339:VAL:HG21	1:Q:435:VAL:HG23	1.67	0.77
2:G:145:GLU:HG2	2:G:240:ALA:H	1.48	0.77
2:G:390:MET:HG3	5:T:57:GLY:N	2.00	0.77
5:T:64:GLY:H	8:W:41:LEU:CD2	1.97	0.77
8:W:18:VAL:HG12	8:W:22:LEU:HD12	1.66	0.77
9:X:31:THR:O	9:X:35:ILE:HG12	1.85	0.77
2:C:331:ARG:HD2	2:C:349:VAL:HG12	1.67	0.77
3:B:640:LEU:HD23	3:B:641:GLU:N	1.97	0.77
3:R:249:GLN:HG3	3:R:250:ASN:N	1.99	0.77
3:R:554:ASN:HD21	3:R:576:ARG:NH2	1.83	0.77
3:R:855:THR:HB	3:R:857:GLU:HG2	1.67	0.77
3:B:758:TYR:O	3:B:759:SER:HB3	1.84	0.76
3:R:206:LYS:O	3:R:210:PHE:HA	1.85	0.76
4:S:8:LYS:HD2	4:S:13:ILE:HG12	1.65	0.76
3:R:248:VAL:HG11	3:R:329:ARG:NH1	2.00	0.76
3:R:654:ILE:HD12	3:R:654:ILE:H	1.49	0.76
8:W:18:VAL:O	8:W:22:LEU:HB2	1.85	0.76
2:C:85:MET:HB3	2:C:304:GLN:OE1	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:749:MET:HG2	3:B:750:TYR:CD1	2.21	0.76
4:S:180:VAL:CG2	4:S:190:LEU:HG	2.16	0.76
8:W:50:LEU:CD2	8:W:75:PRO:HD3	2.16	0.76
1:A:336:GLU:HA	1:A:434:ARG:O	1.85	0.76
1:A:502:TYR:CE1	1:A:636:ILE:HD11	2.20	0.76
3:B:301:LEU:HD22	3:B:483:ARG:HH21	1.49	0.76
5:E:41:ASP:C	5:E:42:LEU:HD23	2.10	0.76
6:F:16:VAL:HG22	6:F:49:ALA:HA	1.67	0.76
1:Q:52:ILE:O	1:Q:53:GLU:HB2	1.85	0.76
1:Q:477:LYS:O	1:Q:481:LEU:HB2	1.86	0.76
3:R:223:PHE:CE1	3:R:227:MET:HG3	2.21	0.76
3:B:890:MET:HE2	3:B:891:LEU:H	1.50	0.76
1:Q:666:ASP:O	1:Q:670:VAL:HG13	1.85	0.76
2:G:14:GLU:O	2:G:17:VAL:HG12	1.86	0.76
3:R:473:MET:HA	3:R:577:ARG:NH2	2.00	0.76
9:X:72:ALA:O	9:X:76:ILE:HG12	1.85	0.76
2:C:120:PRO:HB3	2:C:256:SER:HB3	1.68	0.76
3:B:560:THR:CG2	3:B:562:PHE:H	1.92	0.76
9:L:72:ALA:O	9:L:76:ILE:HG12	1.85	0.76
3:R:848:ASP:HB2	3:R:867:ARG:HB2	1.64	0.76
5:T:101:LEU:HD21	5:T:162:LEU:HD11	1.68	0.76
1:A:262:ILE:HG12	1:A:266:TRP:NE1	2.01	0.76
2:C:277:ILE:HG22	2:C:278:ARG:H	1.48	0.76
2:C:379:ILE:HD11	3:B:1042:ALA:HA	1.67	0.76
3:B:473:MET:HA	3:B:577:ARG:NH2	1.99	0.76
3:B:708:LEU:HD13	3:B:713:TYR:HB3	1.68	0.76
4:D:4:ASN:HA	9:L:90:LEU:HD22	1.67	0.76
3:R:708:LEU:HD13	3:R:713:TYR:HB3	1.66	0.76
3:R:764:LYS:NZ	3:R:772:LYS:O	2.15	0.76
4:S:79:PRO:O	4:S:83:ILE:HG13	1.86	0.76
4:S:177:GLU:HB2	4:S:178:LYS:NZ	2.00	0.76
5:T:18:PHE:CE2	8:W:42:GLN:HG2	2.20	0.76
5:T:179:LYS:NZ	6:U:82:GLU:H	1.84	0.76
1:A:16:PRO:HD3	1:A:206:TRP:HD1	1.47	0.76
1:A:193:GLU:O	1:A:195:LEU:N	2.19	0.76
3:R:475:GLN:HG2	3:R:476:ILE:H	1.49	0.76
1:A:487:ILE:H	1:A:487:ILE:HD12	1.48	0.76
1:A:541:ALA:HB1	1:A:542:PRO:HD3	1.68	0.76
3:B:1004:ARG:NH1	3:B:1025:GLY:H	1.83	0.76
1:Q:446:ASN:C	1:Q:446:ASN:HD22	1.92	0.76
2:G:310:ILE:HD12	2:G:310:ILE:N	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W:50:LEU:HD23	8:W:75:PRO:HD3	1.67	0.76
1:Q:245:ILE:HD13	1:Q:268:LEU:HB3	1.68	0.76
2:G:331:ARG:HD2	2:G:349:VAL:HG12	1.68	0.76
2:G:391:ARG:HG3	2:G:391:ARG:NH1	2.00	0.76
3:R:64:ARG:HG2	3:R:64:ARG:HH11	1.49	0.76
5:T:134:LYS:HD3	5:T:174:TRP:NE1	2.02	0.76
5:E:179:LYS:NZ	6:F:82:GLU:HG3	2.02	0.75
5:E:179:LYS:HZ1	6:F:82:GLU:H	1.35	0.75
3:R:702:LEU:HD13	10:Y:47:ARG:NE	2.01	0.75
3:R:987:VAL:HG11	10:Y:47:ARG:NE	1.99	0.75
4:S:250:ILE:HA	4:S:253:ILE:HG22	1.68	0.75
1:A:293:ARG:HG2	1:A:296:ARG:NH2	2.01	0.75
1:A:569:SER:HB2	1:A:584:SER:OG	1.86	0.75
1:A:864:LYS:O	1:A:864:LYS:HG3	1.86	0.75
8:K:50:LEU:HD23	8:K:75:PRO:HD3	1.67	0.75
9:L:31:THR:O	9:L:35:ILE:HG12	1.85	0.75
3:R:183:ILE:HB	3:R:207:ASP:C	2.10	0.75
3:R:861:LEU:HD12	3:R:862:VAL:N	2.01	0.75
1:A:308:ARG:HH21	3:B:1099:LEU:CD1	1.96	0.75
3:B:870:ARG:NH1	3:B:996:MET:HB2	2.01	0.75
7:H:45:ILE:HG22	7:H:80:TYR:H	1.50	0.75
1:Q:530:VAL:O	1:Q:530:VAL:HG13	1.85	0.75
3:R:581:ILE:HD11	3:R:614:GLU:CB	2.16	0.75
3:R:1060:VAL:CG1	3:R:1065:GLY:HA3	2.15	0.75
6:U:16:VAL:CG2	6:U:53:GLN:HG3	2.15	0.75
7:V:45:ILE:O	7:V:81:VAL:HA	1.86	0.75
1:Q:667:ARG:O	1:Q:670:VAL:HG22	1.87	0.75
4:S:148:GLY:HA3	4:S:156:PHE:CD1	2.22	0.75
5:T:170:GLY:N	5:T:175:ILE:HD11	2.00	0.75
1:A:563:HIS:HB2	1:A:872:PHE:CE2	2.20	0.75
1:A:733:ALA:HB1	3:B:913:HIS:HE1	1.52	0.75
3:B:147:ASP:OD2	3:B:148:PRO:HD2	1.85	0.75
3:B:457:GLU:HG2	3:B:469:ASN:OD1	1.87	0.75
1:Q:293:ARG:NH1	1:Q:296:ARG:HH22	1.79	0.75
2:G:277:ILE:O	2:G:279:GLU:N	2.16	0.75
5:T:135:VAL:H	5:T:174:TRP:HZ2	1.31	0.75
7:V:65:ILE:HD12	7:V:65:ILE:N	2.02	0.75
1:A:216:PRO:HG2	1:A:219:ILE:HD12	1.68	0.75
4:D:90:GLU:C	4:D:92:CYS:H	1.95	0.75
8:K:34:ARG:O	8:K:37:SER:HB2	1.87	0.75
3:R:536:LEU:HD11	3:R:540:ILE:CD1	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:7:CYS:SG	10:Y:48:MET:HG3	2.26	0.75
3:B:594:ILE:HD12	3:B:601:ALA:HB2	1.69	0.75
1:Q:308:ARG:HG3	1:Q:312:ASN:HD22	1.50	0.75
2:G:107:LEU:O	2:G:111:VAL:HG23	1.86	0.75
3:R:739:ILE:CG2	3:R:909:ILE:HB	2.17	0.75
3:R:1087:ASN:O	3:R:1088:LEU:HG	1.86	0.75
6:U:15:SER:O	6:U:19:LYS:HE2	1.86	0.75
1:A:637:ARG:HD3	1:A:640:GLU:CD	2.12	0.75
3:B:554:ASN:ND2	3:B:576:ARG:HH21	1.83	0.75
3:B:771:ASP:CB	3:B:816:PRO:HD3	2.17	0.75
4:D:38:ILE:O	4:D:147:LEU:HA	1.86	0.75
6:F:35:GLN:HA	6:F:38:TYR:CD1	2.22	0.75
8:K:50:LEU:CD2	8:K:75:PRO:HD3	2.16	0.75
1:Q:681:ASN:O	1:Q:683:GLU:HG3	1.86	0.75
2:G:329:ILE:HA	2:G:334:VAL:CG1	2.17	0.75
3:R:1114:VAL:C	3:R:1115:LEU:HD23	2.12	0.75
5:T:149:VAL:HG13	5:T:159:ARG:O	1.86	0.75
7:V:23:LEU:HD12	7:V:62:ILE:HG12	1.69	0.75
1:A:176:THR:O	1:A:180:ILE:HG13	1.87	0.75
1:A:528:ALA:O	1:A:530:VAL:HG12	1.87	0.75
1:A:539:ILE:HB	1:A:545:TYR:HB2	1.67	0.75
3:B:665:ARG:HG3	3:B:920:THR:CG2	2.17	0.75
1:Q:334:ILE:HD11	1:Q:628:MET:HB3	1.68	0.75
3:R:104:GLU:O	3:R:105:ASN:HB2	1.85	0.75
3:R:490:TYR:CE1	3:R:527:ILE:HG21	2.21	0.75
6:U:16:VAL:HG22	6:U:49:ALA:HA	1.66	0.75
2:C:55:ALA:CA	2:C:58:GLU:HG3	2.17	0.74
3:B:554:ASN:HD21	3:B:576:ARG:NH2	1.83	0.74
5:E:6:LYS:HE3	6:F:8:GLU:HB2	1.67	0.74
1:Q:176:THR:O	1:Q:180:ILE:HG13	1.87	0.74
3:R:457:GLU:HG2	3:R:469:ASN:OD1	1.87	0.74
3:R:458:THR:HG21	3:R:465:GLY:N	1.97	0.74
4:S:175:ASN:CA	4:S:195:LEU:HD11	2.17	0.74
1:A:90:ILE:HG21	1:A:208:ILE:HD11	1.69	0.74
1:A:412:ILE:HD12	1:A:415:ASP:HB2	1.67	0.74
3:B:1069:TRP:HB2	3:B:1078:VAL:O	1.85	0.74
3:B:1114:VAL:HG23	3:B:1115:LEU:N	2.02	0.74
4:D:18:GLU:CD	4:D:225:LYS:HD2	2.12	0.74
1:Q:491:TYR:CB	1:Q:607:GLN:OE1	2.34	0.74
2:G:355:LEU:CD2	3:R:1109:ILE:HD11	2.18	0.74
3:R:904:VAL:HG21	10:Y:42:ARG:HE	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:918:ARG:O	3:R:920:THR:HG23	1.86	0.74
3:B:699:GLN:NE2	10:N:48:MET:HE3	2.02	0.74
3:B:724:LEU:HD12	3:B:908:ILE:HG22	1.69	0.74
4:D:131:VAL:CG2	4:D:132:LEU:H	1.99	0.74
8:K:92:LEU:HD23	8:K:92:LEU:O	1.86	0.74
1:Q:502:TYR:HE1	1:Q:636:ILE:HD11	1.52	0.74
1:Q:637:ARG:HD3	1:Q:640:GLU:CD	2.12	0.74
2:G:286:ILE:CD1	7:V:45:ILE:HG13	2.17	0.74
3:R:64:ARG:O	3:R:97:TRP:HB2	1.86	0.74
3:R:445:LEU:HD21	3:R:455:PRO:HA	1.67	0.74
5:T:107:LEU:HD12	5:T:108:VAL:N	2.02	0.74
1:A:681:ASN:O	1:A:683:GLU:HG3	1.86	0.74
10:N:1:MET:HE2	10:N:56:ILE:HD12	1.68	0.74
1:Q:426:HIS:CD2	1:Q:490:ARG:HH12	2.06	0.74
1:Q:538:ALA:HB2	1:Q:550:GLN:OE1	1.88	0.74
4:S:38:ILE:O	4:S:147:LEU:HA	1.87	0.74
1:A:600:LYS:HB2	1:A:732:GLY:HA3	1.70	0.74
2:C:391:ARG:HG3	2:C:391:ARG:NH1	1.96	0.74
3:B:104:GLU:O	3:B:105:ASN:HB2	1.86	0.74
3:B:458:THR:HG21	3:B:465:GLY:N	1.96	0.74
3:B:591:ILE:CG1	3:B:612:LYS:HZ2	1.99	0.74
5:E:170:GLY:N	5:E:175:ILE:HD11	2.01	0.74
6:F:30:SER:HG	6:F:38:TYR:HE1	1.35	0.74
1:Q:328:PRO:HG3	1:Q:457:PHE:CG	2.23	0.74
1:Q:525:LEU:C	1:Q:527:VAL:H	1.96	0.74
4:S:131:VAL:CG2	4:S:132:LEU:H	2.01	0.74
5:T:38:ILE:O	5:T:39:LEU:HB2	1.87	0.74
5:T:116:ASP:CG	5:T:117:THR:N	2.46	0.74
1:A:640:GLU:OE1	3:B:974:ARG:NH1	2.20	0.74
3:B:1014:ARG:HG2	3:B:1014:ARG:HH11	1.52	0.74
4:D:250:ILE:HA	4:D:253:ILE:HG22	1.70	0.74
5:E:31:ARG:C	5:E:33:GLN:H	1.95	0.74
5:E:39:LEU:HD23	5:E:40:LYS:N	2.02	0.74
1:Q:632:PHE:HA	1:Q:635:PHE:CD1	2.22	0.74
3:R:59:ARG:NH2	3:R:107:ILE:HB	2.01	0.74
5:T:97:ILE:HD12	5:T:113:ILE:HD11	1.70	0.74
3:B:490:TYR:CE1	3:B:527:ILE:HG21	2.22	0.74
3:B:665:ARG:HG3	3:B:920:THR:HG21	1.69	0.74
5:E:142:VAL:HG12	5:E:171:LYS:HA	1.69	0.74
5:E:145:ARG:NH2	5:E:169:LEU:HD11	2.03	0.74
1:Q:743:MET:O	1:Q:785:SER:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:764:LYS:HZ1	3:R:772:LYS:C	1.94	0.74
3:B:393:ARG:HE	3:B:403:TRP:HZ3	1.35	0.74
4:D:40:ALA:HB3	4:D:156:PHE:CE2	2.22	0.74
1:Q:238:LYS:CD	1:Q:276:TYR:HA	2.18	0.74
1:Q:301:ARG:O	1:Q:302:LEU:HG	1.87	0.74
4:S:89:CYS:O	4:S:92:CYS:HB2	1.88	0.74
4:S:222:VAL:HG11	4:S:225:LYS:HD3	1.69	0.74
7:V:65:ILE:HD12	7:V:65:ILE:H	1.53	0.74
1:Q:539:ILE:HB	1:Q:545:TYR:HB2	1.69	0.74
3:R:975:THR:OG1	3:R:977:GLN:HG2	1.87	0.74
1:A:418:LEU:HD21	3:B:1044:LEU:CD2	2.14	0.74
1:A:828:SER:HB2	2:C:72:ILE:HD11	1.70	0.74
5:E:38:ILE:HG22	5:E:39:LEU:H	1.51	0.74
7:H:13:ILE:HG23	7:H:14:HIS:H	1.53	0.74
7:H:45:ILE:O	7:H:81:VAL:HA	1.87	0.74
1:Q:206:TRP:O	1:Q:208:ILE:N	2.20	0.74
1:Q:288:LYS:HG2	1:Q:294:PRO:HA	1.70	0.74
1:Q:827:LEU:HD11	2:G:315:LEU:HD13	1.68	0.74
3:R:48:GLU:HG3	3:R:365:LEU:HD23	1.70	0.74
3:R:65:ILE:HD12	3:R:65:ILE:N	2.00	0.74
4:S:90:GLU:C	4:S:92:CYS:H	1.96	0.74
2:C:16:LYS:HZ1	3:R:75:ARG:NH1	1.84	0.73
2:C:107:LEU:O	2:C:111:VAL:HG23	1.88	0.73
3:B:401:GLY:O	3:B:402:ASN:O	2.06	0.73
3:B:1114:VAL:C	3:B:1115:LEU:HD23	2.12	0.73
4:D:37:PRO:HA	4:D:148:GLY:O	1.87	0.73
4:D:79:PRO:O	4:D:83:ILE:HG13	1.88	0.73
7:H:65:ILE:HD12	7:H:65:ILE:N	2.03	0.73
1:Q:647:ARG:HH11	3:R:965:ASP:CB	2.01	0.73
1:Q:826:ALA:HB1	2:G:334:VAL:HG13	1.67	0.73
1:Q:864:LYS:O	1:Q:864:LYS:HG3	1.87	0.73
3:R:10:ARG:HB2	3:R:642:ILE:O	1.88	0.73
1:A:551:VAL:HG13	1:A:552:ILE:N	2.02	0.73
1:A:761:TYR:CE2	1:A:767:PRO:HD3	2.24	0.73
2:C:144:LEU:O	2:C:146:TYR:N	2.21	0.73
4:D:89:CYS:O	4:D:92:CYS:HB2	1.87	0.73
6:F:56:ILE:HG23	6:F:69:ARG:HB3	1.70	0.73
6:F:77:PRO:HG3	6:F:83:VAL:HG22	1.69	0.73
7:H:45:ILE:HB	7:H:79:ARG:HB3	1.68	0.73
1:Q:487:ILE:H	1:Q:487:ILE:HD12	1.53	0.73
2:G:331:ARG:HD3	2:G:348:GLU:HB3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:38:LYS:HG3	3:R:39:LEU:N	2.02	0.73
2:C:281:GLU:OE1	2:C:326:VAL:HG12	1.87	0.73
3:B:361:PHE:CE1	3:B:385:VAL:HG13	2.23	0.73
5:E:34:TYR:O	5:E:37:LYS:HB2	1.88	0.73
5:E:113:ILE:HG23	5:E:114:THR:H	1.53	0.73
2:G:277:ILE:HG22	2:G:278:ARG:H	1.54	0.73
1:A:666:ASP:O	1:A:670:VAL:HG13	1.87	0.73
2:C:355:LEU:CD2	3:B:1109:ILE:HD11	2.18	0.73
3:B:1051:ASP:O	3:B:1055:ARG:HD2	1.87	0.73
3:R:214:PHE:HZ	3:R:297:PHE:HA	1.54	0.73
9:X:62:SER:O	9:X:63:ILE:HD13	1.88	0.73
1:A:293:ARG:NH1	1:A:296:ARG:NH2	2.35	0.73
1:A:874:ARG:HE	2:C:53:ASP:CB	1.98	0.73
4:D:175:ASN:HA	4:D:195:LEU:HD21	1.70	0.73
1:Q:293:ARG:NH1	1:Q:296:ARG:NH2	2.36	0.73
2:G:122:MET:SD	2:G:256:SER:HA	2.29	0.73
3:R:52:GLU:HB2	3:R:56:LEU:HB3	1.71	0.73
3:R:193:THR:OG1	3:R:198:VAL:HA	1.88	0.73
3:R:763:VAL:HG23	3:R:859:ASN:OD1	1.88	0.73
2:C:389:THR:HG21	8:K:79:ARG:HH12	1.53	0.73
3:B:59:ARG:NH2	3:B:107:ILE:HB	2.02	0.73
3:B:579:LEU:O	3:B:613:ILE:HG23	1.88	0.73
4:D:222:VAL:HG11	4:D:225:LYS:HD3	1.70	0.73
3:R:555:VAL:HG22	3:R:568:VAL:HA	1.70	0.73
5:T:34:TYR:O	5:T:37:LYS:HB2	1.88	0.73
6:U:14:TYR:CD1	6:U:74:SER:HB2	2.23	0.73
1:A:397:LEU:HA	1:A:400:THR:OG1	1.89	0.73
1:A:827:LEU:HD11	2:C:315:LEU:HD13	1.71	0.73
2:C:111:VAL:CG1	2:C:329:ILE:HD12	2.16	0.73
5:E:101:LEU:HD21	5:E:162:LEU:HD11	1.71	0.73
7:H:69:SER:HB2	7:H:75:VAL:HG23	1.70	0.73
2:G:250:ILE:HG22	2:G:251:ILE:H	1.54	0.73
3:R:59:ARG:HH22	3:R:107:ILE:HD12	1.54	0.73
3:R:591:ILE:HD11	3:R:612:LYS:HZ3	1.54	0.73
4:S:228:LEU:HD11	4:S:230:ILE:HD11	1.70	0.73
1:A:52:ILE:O	1:A:53:GLU:HB2	1.89	0.73
1:A:525:LEU:C	1:A:527:VAL:H	1.96	0.73
3:B:197:ARG:HH22	3:B:359:LYS:HG2	1.50	0.73
1:Q:4:LYS:HD3	3:R:1091:VAL:HB	1.70	0.73
3:R:473:MET:SD	3:R:474:ALA:N	2.61	0.73
6:U:12:ILE:HG22	6:U:13:PRO:HD2	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:507:TYR:HB3	1:A:597:VAL:HG13	1.69	0.73
1:A:530:VAL:O	1:A:532:ILE:HG13	1.89	0.73
3:B:203:GLU:OE1	3:B:203:GLU:HA	1.87	0.73
3:B:757:LEU:HD23	3:B:758:TYR:N	2.03	0.73
4:D:13:ILE:CD1	4:D:238:PRO:HB2	2.17	0.73
2:G:120:PRO:HB3	2:G:256:SER:HB3	1.70	0.73
2:G:144:LEU:O	2:G:146:TYR:N	2.21	0.73
3:R:68:PRO:HA	3:R:93:ALA:O	1.89	0.73
3:R:724:LEU:HD12	3:R:908:ILE:HG22	1.69	0.73
3:R:870:ARG:NH1	3:R:996:MET:HB2	2.04	0.73
3:R:897:MET:SD	3:R:906:PRO:HG2	2.29	0.73
2:C:331:ARG:HD3	2:C:348:GLU:HB3	1.71	0.73
5:E:107:LEU:HD12	5:E:108:VAL:N	2.02	0.73
5:E:134:LYS:HD3	5:E:174:TRP:NE1	2.04	0.73
1:Q:761:TYR:CE2	1:Q:767:PRO:HD3	2.23	0.73
1:Q:775:SER:OG	1:Q:776:PRO:HD2	1.89	0.73
2:G:241:ILE:HG22	2:G:242:VAL:N	2.04	0.73
3:R:239:VAL:HA	3:R:253:PHE:CE2	2.23	0.73
3:R:758:TYR:O	3:R:759:SER:HB3	1.88	0.73
2:C:250:ILE:HG22	2:C:251:ILE:H	1.54	0.72
3:B:248:VAL:HG11	3:B:329:ARG:NH1	2.02	0.72
3:B:987:VAL:HG11	10:N:47:ARG:NE	2.03	0.72
10:N:35:LEU:CD2	10:N:40:VAL:HG21	2.18	0.72
1:Q:239:LEU:HD12	1:Q:276:TYR:HE1	1.54	0.72
1:Q:561:ASN:HA	1:Q:588:ILE:O	1.89	0.72
1:Q:839:ARG:HA	1:Q:844:GLU:O	1.89	0.72
1:Q:847:GLN:HG2	2:G:318:ASP:OD1	1.90	0.72
3:R:795:ASN:HD21	11:Z:36:MET:HE2	1.53	0.72
1:A:377:TYR:H	1:A:388:LEU:HB3	1.54	0.72
1:A:537:PRO:HB2	1:A:540:LEU:HD21	1.71	0.72
2:C:274:THR:HG22	2:C:275:ASN:N	1.96	0.72
3:B:317:TYR:CD2	3:B:526:LEU:HD13	2.24	0.72
3:B:708:LEU:HD13	3:B:708:LEU:O	1.89	0.72
1:Q:409:ARG:HB3	1:Q:409:ARG:NH1	2.04	0.72
3:R:401:GLY:O	3:R:402:ASN:O	2.08	0.72
10:Y:55:ILE:H	10:Y:55:ILE:HD13	1.54	0.72
1:A:450:CYS:HB2	1:A:451:PRO:HD3	1.71	0.72
3:B:373:LYS:CE	3:B:375:ARG:HD2	2.19	0.72
3:B:780:VAL:HG11	3:B:831:ALA:HB3	1.70	0.72
4:D:8:LYS:HD2	4:D:13:ILE:HG12	1.69	0.72
4:D:68:MET:HE2	4:D:68:MET:HA	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:728:MET:CE	3:R:913:HIS:HA	2.18	0.72
2:G:24:LEU:HD11	2:G:58:GLU:OE1	1.89	0.72
2:G:72:ILE:O	2:G:76:GLN:HB2	1.89	0.72
3:R:65:ILE:H	3:R:65:ILE:CD1	2.01	0.72
1:A:387:ASP:CG	1:A:388:LEU:H	1.97	0.72
1:A:507:TYR:HB2	1:A:511:VAL:HG13	1.72	0.72
3:B:244:LEU:C	3:B:246:PRO:HD3	2.14	0.72
3:B:900:THR:HG21	3:B:968:GLU:OE2	1.88	0.72
3:B:1109:ILE:O	3:B:1111:PRO:HD3	1.89	0.72
5:E:149:VAL:HG13	5:E:159:ARG:O	1.90	0.72
6:F:15:SER:O	6:F:19:LYS:HE2	1.88	0.72
9:L:84:ILE:O	9:L:87:ILE:HG22	1.89	0.72
3:R:43:ILE:HG21	3:R:63:ILE:CD1	2.20	0.72
3:R:602:ILE:CG2	3:R:603:THR:H	2.02	0.72
3:R:640:LEU:HD23	3:R:641:GLU:N	2.00	0.72
3:R:727:MET:HE2	3:R:983:ILE:HG21	1.72	0.72
5:T:113:ILE:HG23	5:T:114:THR:H	1.54	0.72
1:A:491:TYR:CB	1:A:607:GLN:OE1	2.37	0.72
1:A:728:MET:HE3	3:B:913:HIS:HA	1.71	0.72
8:K:18:VAL:O	8:K:22:LEU:HB2	1.88	0.72
1:Q:589:LYS:HZ3	1:Q:879:LYS:H	1.37	0.72
2:G:274:THR:HG22	2:G:276:ASN:H	1.52	0.72
3:R:536:LEU:HD13	3:R:536:LEU:C	2.15	0.72
3:R:874:ILE:H	3:R:874:ILE:CD1	2.03	0.72
5:T:31:ARG:C	5:T:33:GLN:H	1.94	0.72
1:A:288:LYS:HG2	1:A:294:PRO:HA	1.71	0.72
1:A:512:LYS:HG3	1:A:583:ASP:OD2	1.87	0.72
3:B:43:ILE:HG21	3:B:63:ILE:CD1	2.19	0.72
5:E:179:LYS:HE2	6:F:81:ASP:HB2	1.72	0.72
1:Q:81:VAL:HG12	1:Q:270:GLN:HG3	1.71	0.72
1:Q:733:ALA:HB1	3:R:913:HIS:HE1	1.54	0.72
2:G:277:ILE:C	2:G:279:GLU:H	1.98	0.72
3:R:163:THR:HG23	3:R:428:ARG:O	1.88	0.72
3:R:869:LEU:HD11	4:S:56:GLU:CB	2.15	0.72
1:A:7:LYS:HE2	2:C:365:GLU:OE2	1.89	0.72
1:A:426:HIS:CD2	1:A:490:ARG:HH12	2.06	0.72
1:A:831:ARG:HH21	2:C:385:MET:HB2	1.54	0.72
2:C:391:ARG:HH22	8:K:39:ARG:NH1	1.87	0.72
3:B:64:ARG:HG2	3:B:64:ARG:HH11	1.54	0.72
1:Q:409:ARG:HB3	1:Q:409:ARG:HH11	1.55	0.72
1:Q:530:VAL:O	1:Q:532:ILE:HG13	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:826:ALA:HB1	2:C:334:VAL:HG13	1.71	0.72
2:C:383:THR:HG22	3:B:1042:ALA:H	1.55	0.72
3:B:1060:VAL:CG1	3:B:1065:GLY:HA3	2.19	0.72
5:E:39:LEU:HD23	5:E:41:ASP:H	1.54	0.72
1:Q:6:ILE:HG13	3:R:1091:VAL:HG21	1.71	0.72
1:Q:7:LYS:HE2	2:G:365:GLU:OE2	1.90	0.72
1:Q:377:TYR:H	1:Q:388:LEU:HB3	1.54	0.72
7:V:21:GLU:O	7:V:63:ILE:HG23	1.90	0.72
1:A:206:TRP:O	1:A:208:ILE:N	2.22	0.72
1:A:632:PHE:HA	1:A:635:PHE:CD1	2.25	0.72
2:C:72:ILE:O	2:C:76:GLN:HB2	1.88	0.72
2:C:277:ILE:O	2:C:279:GLU:N	2.19	0.72
3:B:48:GLU:HG3	3:B:365:LEU:HD23	1.71	0.72
3:B:764:LYS:HD3	3:B:815:SER:HA	1.70	0.72
3:B:902:LYS:HB3	10:N:42:ARG:HD3	1.72	0.72
3:R:781:ARG:CG	3:R:782:GLY:H	2.02	0.72
3:R:1069:TRP:HB2	3:R:1078:VAL:O	1.90	0.72
6:U:77:PRO:HG3	6:U:83:VAL:HG22	1.72	0.72
8:W:61:VAL:HG12	8:W:62:ILE:H	1.53	0.72
2:G:40:GLU:O	2:G:45:ARG:HG2	1.90	0.72
3:R:364:ASP:O	3:R:367:TYR:HB3	1.89	0.72
3:R:430:ILE:HG12	3:R:467:VAL:HG23	1.71	0.72
10:Y:1:MET:HB3	10:Y:56:ILE:HD13	1.72	0.72
1:A:308:ARG:HG3	1:A:312:ASN:HD22	1.54	0.71
1:A:733:ALA:HB1	3:B:913:HIS:CE1	2.25	0.71
3:B:68:PRO:HA	3:B:93:ALA:O	1.90	0.71
3:B:81:SER:HB3	3:B:84:GLU:HG3	1.71	0.71
3:B:390:VAL:O	3:B:394:ILE:HB	1.90	0.71
3:B:727:MET:HE2	3:B:983:ILE:HG21	1.72	0.71
3:B:781:ARG:CG	3:B:782:GLY:H	2.02	0.71
3:B:861:LEU:HD12	3:B:862:VAL:N	2.05	0.71
8:K:18:VAL:HG12	8:K:22:LEU:HD12	1.72	0.71
1:Q:4:LYS:HG2	1:Q:5:ASN:N	2.04	0.71
3:R:544:ARG:HH11	3:R:544:ARG:HG3	1.54	0.71
3:R:560:THR:CG2	3:R:562:PHE:H	1.92	0.71
3:R:698:PRO:HB3	3:R:717:PRO:HG2	1.72	0.71
3:B:39:LEU:HD11	3:B:354:PHE:CE2	2.24	0.71
3:B:88:ARG:CD	3:B:853:THR:HG21	2.13	0.71
3:B:116:ILE:HD12	3:B:361:PHE:CZ	2.25	0.71
3:B:536:LEU:HD13	3:B:536:LEU:C	2.14	0.71
8:K:26:ARG:HG2	8:K:90:LEU:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:147:ASP:OD2	3:R:148:PRO:HD2	1.89	0.71
3:R:244:LEU:C	3:R:246:PRO:HD3	2.15	0.71
3:R:594:ILE:HD12	3:R:601:ALA:HB2	1.71	0.71
1:A:238:LYS:CD	1:A:276:TYR:HA	2.20	0.71
2:C:388:LEU:HD11	8:K:34:ARG:HG3	1.71	0.71
3:B:654:ILE:HD12	3:B:654:ILE:H	1.53	0.71
4:D:228:LEU:HD11	4:D:230:ILE:HD11	1.72	0.71
10:N:55:ILE:H	10:N:55:ILE:HD13	1.55	0.71
2:G:301:LEU:HD12	2:G:302:ALA:N	2.05	0.71
1:A:551:VAL:HG13	1:A:552:ILE:H	1.56	0.71
3:B:1050:LEU:HD23	3:B:1051:ASP:N	2.05	0.71
4:D:175:ASN:CA	4:D:195:LEU:HD11	2.19	0.71
4:D:190:LEU:HA	4:D:194:LYS:O	1.90	0.71
1:Q:47:PRO:HG2	1:Q:48:ARG:HD3	1.73	0.71
3:R:88:ARG:CD	3:R:853:THR:HG21	2.14	0.71
3:R:393:ARG:HE	3:R:403:TRP:HZ3	1.36	0.71
6:U:35:GLN:HA	6:U:38:TYR:CD1	2.25	0.71
7:V:69:SER:HB2	7:V:75:VAL:HG23	1.71	0.71
1:A:589:LYS:NZ	1:A:879:LYS:H	1.88	0.71
3:B:911:ASN:ND2	3:B:913:HIS:HB2	2.05	0.71
2:G:115:LYS:HD2	2:G:276:ASN:HD22	1.55	0.71
3:R:59:ARG:HH22	3:R:107:ILE:CG1	2.04	0.71
3:R:725:ALA:HB2	3:R:906:PRO:HB3	1.73	0.71
3:R:1079:CYS:SG	3:R:1080:PRO:HD2	2.31	0.71
1:A:350:PRO:HD3	1:A:468:GLN:HE22	1.56	0.71
1:A:538:ALA:HB2	1:A:550:GLN:OE1	1.91	0.71
3:B:139:ILE:HG21	10:N:61:HIS:HD2	1.56	0.71
3:B:210:PHE:HZ	3:B:323:ILE:HG22	1.56	0.71
3:B:330:ARG:HG2	3:B:330:ARG:HH11	1.56	0.71
3:B:371:LYS:O	3:B:373:LYS:N	2.23	0.71
3:B:416:ARG:HH12	3:B:687:ARG:HH21	1.39	0.71
3:B:663:SER:HB3	3:B:664:PRO:HD3	1.71	0.71
3:B:910:LEU:HD23	3:B:911:ASN:N	2.06	0.71
1:Q:864:LYS:HG3	2:G:32:LEU:HD11	1.72	0.71
3:R:427:ARG:HH11	3:R:650:ILE:HD12	1.55	0.71
3:R:762:GLU:O	3:R:764:LYS:HG3	1.91	0.71
3:R:930:GLY:HA2	10:Y:47:ARG:HH22	1.54	0.71
8:W:39:ARG:NH2	8:W:50:LEU:HD13	2.06	0.71
1:A:518:LYS:CE	1:A:544:GLU:HB2	2.19	0.71
2:C:69:ALA:CB	2:C:381:LEU:HD22	2.20	0.71
2:C:115:LYS:HD2	2:C:276:ASN:HD22	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:1004:ARG:NH2	3:B:1007:GLY:H	1.87	0.71
1:Q:653:LEU:CD1	1:Q:745:ALA:HB2	2.18	0.71
3:R:21:LYS:HA	3:R:25:ARG:CZ	2.20	0.71
3:R:797:VAL:CB	11:Z:36:MET:HE1	2.20	0.71
4:S:98:ILE:CG1	4:S:114:ILE:HG12	2.21	0.71
1:A:667:ARG:O	1:A:670:VAL:HG22	1.91	0.71
3:B:52:GLU:HB2	3:B:56:LEU:HB3	1.73	0.71
3:B:536:LEU:HD11	3:B:540:ILE:CD1	2.20	0.71
1:Q:245:ILE:HD13	1:Q:268:LEU:HD13	1.71	0.71
1:Q:874:ARG:HE	2:G:53:ASP:CB	1.98	0.71
2:G:322:ARG:HD2	2:G:322:ARG:N	2.04	0.71
2:G:393:ILE:HB	5:T:18:PHE:O	1.91	0.71
3:R:390:VAL:O	3:R:394:ILE:HB	1.90	0.71
3:R:663:SER:HB3	3:R:664:PRO:HD3	1.71	0.71
3:R:771:ASP:CB	3:R:816:PRO:HD3	2.20	0.71
3:R:1107:MET:C	3:R:1108:ILE:HD12	2.16	0.71
5:T:3:LYS:HA	6:U:12:ILE:HG13	1.73	0.71
6:U:56:ILE:HG23	6:U:69:ARG:HB3	1.71	0.71
9:X:84:ILE:O	9:X:87:ILE:HG22	1.91	0.71
1:A:452:PRO:HA	1:A:495:ILE:HD11	1.72	0.71
2:C:277:ILE:C	2:C:279:GLU:H	1.97	0.71
3:B:21:LYS:HA	3:B:25:ARG:CZ	2.21	0.71
3:B:214:PHE:HZ	3:B:297:PHE:HA	1.55	0.71
3:B:239:VAL:HA	3:B:253:PHE:CE2	2.25	0.71
3:B:555:VAL:HG22	3:B:568:VAL:HA	1.73	0.71
1:Q:491:TYR:HB2	1:Q:607:GLN:HE22	1.54	0.71
8:W:61:VAL:HG12	8:W:62:ILE:N	2.06	0.71
2:C:322:ARG:N	2:C:322:ARG:HD2	2.05	0.71
3:B:700:ARG:N	10:N:51:SER:O	2.22	0.71
1:Q:387:ASP:CG	1:Q:388:LEU:H	1.99	0.71
1:Q:756:ARG:NH2	1:Q:776:PRO:HA	2.06	0.71
3:R:39:LEU:HD11	3:R:354:PHE:CE2	2.26	0.71
4:S:51:SER:HB2	4:S:52:PRO:HD2	1.73	0.71
3:B:10:ARG:HB2	3:B:642:ILE:O	1.90	0.70
3:B:252:LEU:HD12	3:B:323:ILE:HB	1.73	0.70
1:Q:736:SER:HB3	1:Q:739:ASN:OD1	1.90	0.70
1:Q:752:VAL:C	1:Q:754:GLY:H	2.00	0.70
1:Q:763:THR:C	1:Q:764:ARG:HG2	2.15	0.70
2:G:297:ILE:C	2:G:299:LYS:H	1.99	0.70
3:R:371:LYS:O	3:R:373:LYS:N	2.23	0.70
3:R:971:TYR:CE2	4:S:165:ARG:HA	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:15:SER:HA	1:A:203:ARG:NH2	2.07	0.70
1:A:481:LEU:HD23	1:A:482:VAL:H	1.55	0.70
2:C:241:ILE:HG22	2:C:242:VAL:N	2.05	0.70
4:D:51:SER:HB2	4:D:52:PRO:HD2	1.73	0.70
1:Q:537:PRO:HB2	1:Q:540:LEU:HD21	1.73	0.70
2:G:130:TYR:CD1	2:G:136:LYS:HG3	2.27	0.70
2:G:141:ALA:HA	2:G:144:LEU:HD12	1.73	0.70
3:R:416:ARG:NH1	3:R:687:ARG:HH21	1.87	0.70
3:R:1109:ILE:O	3:R:1111:PRO:HD3	1.91	0.70
5:T:39:LEU:HD23	5:T:40:LYS:N	2.06	0.70
3:B:206:LYS:O	3:B:210:PHE:HA	1.90	0.70
6:F:16:VAL:CG2	6:F:53:GLN:HG3	2.15	0.70
1:Q:553:SER:OG	1:Q:592:ILE:HA	1.91	0.70
3:R:473:MET:HE1	3:R:475:GLN:O	1.91	0.70
3:R:591:ILE:HG12	3:R:612:LYS:NZ	2.06	0.70
8:W:26:ARG:HG2	8:W:90:LEU:HB3	1.74	0.70
1:A:364:PHE:CE1	1:A:409:ARG:HD2	2.26	0.70
1:Q:485:ASN:HD21	3:R:1039:PHE:HE2	1.38	0.70
1:Q:507:TYR:HB2	1:Q:511:VAL:HG13	1.72	0.70
3:R:252:LEU:HD12	3:R:323:ILE:HB	1.74	0.70
4:S:18:GLU:CD	4:S:225:LYS:HD2	2.17	0.70
4:S:66:PRO:HG2	10:Y:13:LEU:HD21	1.72	0.70
3:B:193:THR:OG1	3:B:198:VAL:HA	1.91	0.70
3:B:480:ILE:HG22	3:B:481:ASN:N	2.06	0.70
4:D:180:VAL:CG2	4:D:190:LEU:HG	2.20	0.70
5:E:100:ASN:HD21	6:F:36:ARG:HD3	1.55	0.70
2:G:28:ILE:HD12	8:W:18:VAL:HG23	1.73	0.70
2:G:115:LYS:HB2	2:G:278:ARG:HG3	1.72	0.70
1:A:279:ASN:HB2	1:A:297:THR:HG21	1.74	0.70
1:A:328:PRO:HG3	1:A:457:PHE:CG	2.27	0.70
2:C:14:GLU:O	2:C:17:VAL:HG12	1.90	0.70
3:B:437:GLN:HB3	3:B:438:PRO:CD	2.21	0.70
3:B:764:LYS:NZ	3:B:772:LYS:O	2.24	0.70
3:R:932:TYR:CD2	3:R:953:LEU:HD22	2.27	0.70
3:B:763:VAL:HG23	3:B:859:ASN:OD1	1.90	0.70
3:B:1097:PHE:CE2	3:B:1101:ILE:HD11	2.27	0.70
11:P:10:TRP:O	11:P:11:LYS:HB2	1.92	0.70
1:Q:528:ALA:O	1:Q:530:VAL:HG12	1.91	0.70
3:R:203:GLU:OE1	3:R:203:GLU:HA	1.91	0.70
3:R:482:GLU:O	3:R:484:ILE:N	2.25	0.70
3:R:764:LYS:HD3	3:R:815:SER:HA	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:852:ILE:HG23	3:R:862:VAL:HG22	1.74	0.70
5:T:15:PRO:HB2	8:W:45:MET:O	1.91	0.70
1:A:6:ILE:HG13	3:B:1091:VAL:HG21	1.74	0.70
1:A:252:SER:O	1:A:257:ALA:HB2	1.92	0.70
3:B:116:ILE:HG23	3:B:361:PHE:CE1	2.27	0.70
3:B:518:SER:HB3	3:B:564:ASN:ND2	2.07	0.70
3:B:591:ILE:HG12	3:B:612:LYS:NZ	2.06	0.70
3:B:803:GLU:HB3	3:B:805:LYS:HZ2	1.55	0.70
3:B:814:VAL:HG11	3:B:832:LYS:HB3	1.74	0.70
3:B:932:TYR:CD2	3:B:953:LEU:HD22	2.26	0.70
5:E:17:GLU:HG2	5:E:20:LYS:NZ	2.06	0.70
1:Q:279:ASN:HB2	1:Q:297:THR:CG2	2.22	0.70
1:Q:841:LEU:HD11	2:G:339:ASN:HB3	1.74	0.70
1:A:644:PHE:HA	1:A:724:PHE:HE2	1.57	0.70
1:A:728:MET:O	1:A:733:ALA:HB3	1.91	0.70
1:A:866:VAL:HG12	1:A:869:ASN:N	2.03	0.70
3:B:416:ARG:NH1	3:B:687:ARG:HH21	1.87	0.70
3:B:430:ILE:HG12	3:B:467:VAL:HG23	1.73	0.70
3:B:723:ILE:HD12	10:N:43:TYR:HE1	1.57	0.70
5:E:126:ILE:HD11	5:E:137:GLN:HG2	1.72	0.70
7:H:12:ARG:HH12	7:H:55:ILE:HB	1.57	0.70
7:H:65:ILE:HD12	7:H:65:ILE:H	1.57	0.70
1:Q:412:ILE:HD12	1:Q:415:ASP:HB2	1.72	0.70
1:Q:458:ASP:HA	3:R:886:GLY:HA2	1.73	0.70
2:G:69:ALA:CB	2:G:381:LEU:HD22	2.20	0.70
3:R:116:ILE:HD12	3:R:361:PHE:CZ	2.27	0.70
3:R:1114:VAL:HG23	3:R:1115:LEU:N	2.06	0.70
4:S:34:LEU:HA	4:S:150:GLY:HA3	1.74	0.70
7:V:12:ARG:HH12	7:V:55:ILE:HB	1.57	0.70
1:A:756:ARG:NH2	1:A:776:PRO:HA	2.07	0.70
3:B:59:ARG:HH22	3:B:107:ILE:HD12	1.57	0.70
3:B:764:LYS:HZ1	3:B:772:LYS:C	2.00	0.70
4:D:6:LEU:HD13	4:D:16:VAL:HG21	1.73	0.70
1:Q:346:THR:HG21	3:R:1003:ALA:HB1	1.72	0.70
1:Q:644:PHE:HA	1:Q:724:PHE:HE2	1.57	0.70
1:Q:737:VAL:HG23	1:Q:738:LEU:HD22	1.72	0.70
1:Q:828:SER:HB2	2:G:72:ILE:CD1	2.21	0.70
3:R:52:GLU:HG3	3:R:56:LEU:HD23	1.74	0.70
3:R:81:SER:HB3	3:R:84:GLU:HG3	1.73	0.70
3:R:210:PHE:HZ	3:R:323:ILE:HG22	1.56	0.70
3:R:522:LEU:O	3:R:525:ARG:HB3	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:590:THR:HA	3:R:593:ASP:OD2	1.90	0.70
8:W:79:ARG:HH11	8:W:79:ARG:HG3	1.57	0.70
1:A:253:ILE:HG13	1:A:262:ILE:HD11	1.73	0.69
1:A:647:ARG:HH11	3:B:965:ASP:CB	2.03	0.69
2:C:274:THR:HG22	2:C:276:ASN:H	1.56	0.69
3:B:683:ASN:O	3:B:685:GLN:N	2.25	0.69
6:F:12:ILE:HG22	6:F:13:PRO:HD2	1.74	0.69
1:Q:518:LYS:CE	1:Q:544:GLU:HB2	2.22	0.69
2:G:392:PRO:HG3	5:T:68:HIS:CE1	2.27	0.69
3:R:702:LEU:HB3	10:Y:47:ARG:NH2	2.07	0.69
1:A:653:LEU:CD1	1:A:745:ALA:HB2	2.21	0.69
1:A:841:LEU:O	1:A:843:GLY:N	2.25	0.69
3:B:63:ILE:HD12	3:B:63:ILE:N	2.07	0.69
10:N:19:GLN:HA	10:N:22:ILE:HD11	1.73	0.69
3:R:88:ARG:HD3	3:R:853:THR:CG2	2.15	0.69
3:R:591:ILE:CD1	3:R:612:LYS:HZ3	2.05	0.69
3:R:600:GLY:C	3:R:602:ILE:H	2.00	0.69
4:S:40:ALA:HB3	4:S:156:PHE:CE2	2.25	0.69
8:W:34:ARG:O	8:W:37:SER:HB2	1.92	0.69
4:D:34:LEU:HA	4:D:150:GLY:HA3	1.75	0.69
4:D:108:MET:HE1	10:N:2:LEU:HD21	1.75	0.69
7:H:52:ALA:C	7:H:54:SER:H	1.99	0.69
1:Q:238:LYS:NZ	1:Q:275:THR:O	2.24	0.69
1:Q:575:CYS:SG	1:Q:580:CYS:CB	2.77	0.69
2:G:344:ARG:HB2	2:G:344:ARG:NH1	2.07	0.69
3:R:904:VAL:CG2	10:Y:42:ARG:HG2	2.22	0.69
3:R:1014:ARG:HG2	3:R:1014:ARG:NH1	2.04	0.69
8:W:28:THR:OG1	8:W:31:GLU:HG3	1.92	0.69
1:A:553:SER:OG	1:A:592:ILE:HA	1.92	0.69
1:A:737:VAL:HG23	1:A:738:LEU:HD22	1.75	0.69
2:C:368:GLY:HA3	2:C:371:GLU:OE1	1.92	0.69
3:B:662:GLN:HG2	3:B:664:PRO:HD2	1.74	0.69
1:Q:704:LEU:HD22	1:Q:781:PHE:HE1	1.56	0.69
3:R:64:ARG:H	3:R:97:TRP:HB2	1.56	0.69
5:T:39:LEU:HD23	5:T:41:ASP:H	1.56	0.69
5:T:53:THR:O	5:T:70:VAL:HG13	1.93	0.69
1:A:491:TYR:HB2	1:A:607:GLN:HE22	1.57	0.69
2:C:141:ALA:HA	2:C:144:LEU:HD12	1.75	0.69
3:B:698:PRO:HB3	3:B:717:PRO:HG2	1.74	0.69
1:Q:203:ARG:NH1	1:Q:206:TRP:HB2	2.07	0.69
1:Q:324:THR:HG21	1:Q:441:LEU:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:431:MET:HE1	1:Q:482:VAL:HG13	1.74	0.69
3:R:360:ALA:HB2	3:R:393:ARG:NH1	2.08	0.69
7:V:62:ILE:HD13	7:V:62:ILE:H	1.57	0.69
1:A:458:ASP:HA	3:B:886:GLY:HA2	1.74	0.69
3:B:59:ARG:HH22	3:B:107:ILE:CB	2.06	0.69
8:K:39:ARG:NH2	8:K:50:LEU:HD13	2.06	0.69
10:N:22:ILE:HD13	10:N:22:ILE:N	2.08	0.69
3:R:873:THR:CG2	3:R:874:ILE:N	2.55	0.69
4:S:175:ASN:HA	4:S:195:LEU:HD21	1.72	0.69
1:A:337:VAL:HG23	1:A:433:HIS:CB	2.23	0.69
3:B:522:LEU:O	3:B:525:ARG:HB3	1.93	0.69
3:B:851:LEU:HG	11:P:35:PHE:CD2	2.26	0.69
3:B:934:ALA:O	10:N:46:ARG:HD3	1.92	0.69
7:H:23:LEU:HD12	7:H:62:ILE:HG12	1.72	0.69
1:Q:262:ILE:HG12	1:Q:266:TRP:HE1	1.56	0.69
1:Q:532:ILE:HD11	9:X:56:LYS:HD3	1.72	0.69
3:R:458:THR:HG23	3:R:467:VAL:O	1.92	0.69
3:R:971:TYR:CZ	4:S:165:ARG:HA	2.28	0.69
10:Y:19:GLN:HA	10:Y:22:ILE:HD11	1.74	0.69
1:A:324:THR:HG21	1:A:441:LEU:O	1.92	0.69
1:A:752:VAL:C	1:A:754:GLY:H	2.00	0.69
3:B:38:LYS:HG3	3:B:39:LEU:N	2.06	0.69
3:B:967:THR:HB	3:B:982:ARG:HG2	1.74	0.69
4:D:34:LEU:HD22	4:D:151:LYS:HB2	1.74	0.69
4:D:191:LYS:CB	4:D:194:LYS:HD2	2.21	0.69
7:H:9:ILE:O	7:H:9:ILE:HG22	1.93	0.69
8:K:28:THR:OG1	8:K:31:GLU:HG3	1.93	0.69
1:Q:253:ILE:HG13	1:Q:262:ILE:HD11	1.75	0.69
1:Q:483:HIS:CD2	1:Q:625:LYS:HD2	2.28	0.69
3:R:427:ARG:NH1	3:R:650:ILE:HD12	2.08	0.69
3:R:518:SER:HB3	3:R:564:ASN:ND2	2.07	0.69
3:R:688:THR:OG1	3:R:863:LYS:HD3	1.92	0.69
4:S:250:ILE:HA	4:S:253:ILE:CG2	2.23	0.69
10:Y:3:ILE:HD11	10:Y:18:TRP:CE3	2.27	0.69
1:A:313:LEU:HD21	3:B:1100:LEU:HD22	1.75	0.69
1:A:464:LEU:HD13	1:A:465:HIS:N	2.08	0.69
2:C:107:LEU:O	2:C:110:ILE:HG22	1.93	0.69
2:C:310:ILE:H	2:C:310:ILE:CD1	2.01	0.69
3:B:707:ALA:O	3:B:711:ILE:HG13	1.92	0.69
3:B:943:THR:HG22	3:B:944:PRO:CD	2.23	0.69
3:B:1119:VAL:HG21	6:F:4:VAL:HG11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:L:62:SER:O	9:L:63:ILE:HD13	1.92	0.69
1:Q:353:ILE:HG13	1:Q:361:LEU:HD23	1.73	0.69
1:Q:501:ASP:OD2	3:R:913:HIS:HD2	1.75	0.69
3:R:1057:MET:O	3:R:1058:ILE:HD13	1.93	0.69
1:A:58:CYS:SG	1:A:59:PRO:CD	2.80	0.69
3:B:164:GLN:HG2	3:B:349:LEU:HD21	1.75	0.69
3:B:672:MET:HG2	3:B:993:LEU:HD21	1.74	0.69
4:D:67:PHE:HD2	4:D:121:VAL:HG12	1.58	0.69
5:E:179:LYS:HZ1	6:F:82:GLU:HG3	1.57	0.69
1:Q:376:ASN:O	1:Q:377:TYR:CB	2.40	0.69
3:R:700:ARG:N	10:Y:51:SER:O	2.26	0.69
3:R:1050:LEU:HD23	3:R:1051:ASP:N	2.06	0.69
1:A:27:ILE:HG23	1:A:45:MET:HG2	1.73	0.68
1:A:765:THR:HG21	1:A:797:PHE:HE2	1.58	0.68
1:A:841:LEU:HD11	2:C:339:ASN:HB3	1.74	0.68
2:C:38:ASN:HD22	2:C:38:ASN:N	1.91	0.68
2:C:370:VAL:O	2:C:373:ILE:HG22	1.93	0.68
3:B:139:ILE:HD12	10:N:61:HIS:CD2	2.27	0.68
3:B:450:TRP:CZ2	3:B:641:GLU:OE1	2.46	0.68
5:E:45:VAL:HG22	5:E:74:MET:HE3	1.74	0.68
1:Q:238:LYS:CE	1:Q:297:THR:HB	2.22	0.68
2:G:38:ASN:HD22	2:G:38:ASN:N	1.90	0.68
3:R:780:VAL:HG11	3:R:831:ALA:HB3	1.75	0.68
1:A:534:LEU:HD13	1:A:535:GLY:N	2.09	0.68
1:A:697:GLU:OE1	1:A:756:ARG:HD3	1.94	0.68
2:C:146:TYR:H	2:C:146:TYR:HD1	1.38	0.68
3:B:321:LYS:HD2	3:B:330:ARG:HE	1.58	0.68
3:B:330:ARG:HG2	3:B:330:ARG:NH1	2.07	0.68
3:B:1004:ARG:HD3	3:B:1004:ARG:C	2.17	0.68
3:R:814:VAL:HG11	3:R:832:LYS:HB3	1.74	0.68
3:R:1061:CYS:HB3	3:R:1065:GLY:N	2.09	0.68
7:V:20:HIS:O	7:V:21:GLU:HG3	1.94	0.68
10:Y:42:ARG:CG	10:Y:43:TYR:H	2.06	0.68
1:A:877:GLY:HA3	3:R:377:ARG:NH1	2.08	0.68
3:B:6:THR:HG22	3:B:7:ILE:H	1.58	0.68
3:B:52:GLU:HG3	3:B:56:LEU:HD23	1.75	0.68
3:B:364:ASP:O	3:B:367:TYR:HB3	1.93	0.68
3:B:806:GLY:O	3:B:839:THR:HB	1.93	0.68
3:B:959:ARG:HG2	3:B:959:ARG:HH11	1.57	0.68
7:H:23:LEU:HD21	7:H:64:ARG:HB2	1.76	0.68
1:Q:476:ALA:HB2	3:R:1044:LEU:HD13	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:502:TYR:CE1	1:Q:636:ILE:HD11	2.28	0.68
1:Q:561:ASN:ND2	1:Q:590:ASN:H	1.90	0.68
3:R:1074:LYS:HE2	3:R:1074:LYS:HA	1.76	0.68
7:V:23:LEU:HD21	7:V:64:ARG:HB2	1.75	0.68
1:A:27:ILE:N	1:A:27:ILE:HD12	2.07	0.68
1:A:409:ARG:HB3	1:A:409:ARG:NH1	2.07	0.68
2:C:130:TYR:CD1	2:C:136:LYS:HG3	2.28	0.68
3:B:65:ILE:HD12	3:B:65:ILE:N	2.04	0.68
3:B:482:GLU:O	3:B:484:ILE:N	2.25	0.68
3:B:725:ALA:HB2	3:B:906:PRO:HB3	1.74	0.68
3:B:762:GLU:O	3:B:764:LYS:HG3	1.93	0.68
7:H:21:GLU:O	7:H:63:ILE:HG23	1.92	0.68
1:Q:427:ARG:N	2:G:76:GLN:NE2	2.41	0.68
1:Q:708:ARG:HG3	1:Q:709:SER:N	2.06	0.68
2:G:355:LEU:HD23	3:R:1109:ILE:HD11	1.76	0.68
3:R:707:ALA:O	3:R:711:ILE:HG13	1.93	0.68
4:S:190:LEU:HA	4:S:194:LYS:O	1.92	0.68
11:Z:10:TRP:O	11:Z:11:LYS:HB2	1.93	0.68
1:A:837:THR:HG22	1:A:838:VAL:H	1.59	0.68
2:C:24:LEU:HD11	2:C:58:GLU:OE1	1.93	0.68
2:C:122:MET:SD	2:C:256:SER:HA	2.33	0.68
3:B:59:ARG:HH22	3:B:107:ILE:CG1	2.06	0.68
3:B:582:VAL:HG22	3:B:586:ASN:O	1.93	0.68
3:B:590:THR:HA	3:B:593:ASP:OD2	1.94	0.68
3:B:873:THR:CG2	3:B:874:ILE:N	2.57	0.68
1:Q:551:VAL:HG13	1:Q:552:ILE:N	2.06	0.68
1:Q:569:SER:HB2	1:Q:584:SER:OG	1.92	0.68
1:Q:640:GLU:OE1	3:R:974:ARG:NH1	2.26	0.68
1:Q:696:LEU:O	1:Q:700:ILE:HG12	1.94	0.68
3:R:59:ARG:HH22	3:R:107:ILE:CB	2.05	0.68
3:R:277:ALA:HB3	3:R:280:GLN:OE1	1.92	0.68
3:R:368:GLN:HE22	3:R:386:ARG:HE	1.40	0.68
1:A:827:LEU:HG	2:C:75:ALA:HB2	1.75	0.68
3:B:975:THR:OG1	3:B:977:GLN:HG2	1.94	0.68
3:B:1074:LYS:HE2	3:B:1074:LYS:HA	1.75	0.68
10:N:52:HIS:NE2	10:N:54:ASP:HB2	2.09	0.68
1:Q:27:ILE:N	1:Q:27:ILE:HD12	2.09	0.68
1:Q:612:LEU:HA	1:Q:615:LEU:HD12	1.74	0.68
1:Q:697:GLU:OE1	1:Q:756:ARG:HD3	1.93	0.68
1:Q:733:ALA:HB1	3:R:913:HIS:CE1	2.29	0.68
2:G:390:MET:CB	5:T:56:GLU:HG3	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:119:LEU:HD12	3:R:120:PRO:CD	2.22	0.68
3:R:708:LEU:HD13	3:R:708:LEU:O	1.94	0.68
3:R:911:ASN:ND2	3:R:913:HIS:HB2	2.07	0.68
3:R:934:ALA:HB2	10:Y:47:ARG:HD3	1.75	0.68
9:X:15:LEU:HB3	9:X:55:VAL:HG23	1.76	0.68
9:X:40:PHE:HB3	9:X:58:LEU:HB3	1.74	0.68
1:A:177:PRO:HG2	1:A:270:GLN:HE22	1.59	0.68
1:A:575:CYS:SG	1:A:580:CYS:CB	2.81	0.68
1:A:647:ARG:HB2	1:A:650:ASP:OD2	1.94	0.68
1:A:878:TRP:CZ3	2:C:50:LYS:HE2	2.29	0.68
2:C:301:LEU:HD12	2:C:302:ALA:N	2.08	0.68
5:E:113:ILE:HG23	5:E:114:THR:N	2.09	0.68
7:H:24:ASN:O	7:H:26:ASP:N	2.27	0.68
1:Q:4:LYS:HZ2	3:R:1115:LEU:HB3	1.57	0.68
1:Q:57:LYS:HB3	1:Q:62:GLY:HA2	1.76	0.68
1:Q:313:LEU:HD21	3:R:1100:LEU:HD22	1.74	0.68
2:G:28:ILE:HD13	8:W:14:HIS:CB	2.23	0.68
2:G:301:LEU:HA	2:G:304:GLN:HG3	1.76	0.68
2:G:393:ILE:CG2	2:G:395:ARG:HH21	2.07	0.68
8:W:32:ILE:O	8:W:35:VAL:HG22	1.94	0.68
1:A:506:ALA:HA	1:A:635:PHE:HE2	1.59	0.68
1:A:506:ALA:HA	1:A:635:PHE:CE2	2.28	0.68
1:A:864:LYS:HG3	2:C:32:LEU:HD11	1.76	0.68
3:B:899:TYR:CE1	3:B:971:TYR:HB2	2.29	0.68
5:E:4:LEU:HD21	5:E:73:ASP:HB3	1.76	0.68
1:Q:27:ILE:HG23	1:Q:45:MET:HG2	1.75	0.68
1:Q:350:PRO:HD3	1:Q:468:GLN:HE22	1.58	0.68
1:Q:512:LYS:HG3	1:Q:583:ASP:OD2	1.93	0.68
4:S:16:VAL:O	4:S:16:VAL:HG12	1.93	0.68
9:X:15:LEU:HB3	9:X:55:VAL:CG2	2.24	0.68
2:C:269:VAL:HA	2:C:272:VAL:CG2	2.24	0.68
3:B:163:THR:HG23	3:B:428:ARG:O	1.94	0.68
3:B:287:GLU:C	3:B:289:ALA:H	2.02	0.68
1:Q:308:ARG:HH21	3:R:1099:LEU:CD1	1.97	0.68
1:Q:481:LEU:HD23	1:Q:482:VAL:H	1.58	0.68
1:Q:507:TYR:HB3	1:Q:597:VAL:HG13	1.76	0.68
3:R:63:ILE:HD12	3:R:63:ILE:N	2.08	0.68
3:R:806:GLY:O	3:R:839:THR:HB	1.93	0.68
3:R:1004:ARG:HD3	3:R:1004:ARG:C	2.19	0.68
3:R:1004:ARG:NH2	3:R:1007:GLY:H	1.92	0.68
7:V:34:GLU:HG3	8:W:84:ASN:OD1	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V:52:ALA:C	7:V:54:SER:H	2.01	0.68
8:W:82:LEU:HB2	8:W:83:PRO:HD2	1.76	0.68
10:Y:52:HIS:NE2	10:Y:54:ASP:HB2	2.09	0.68
2:C:11:PRO:O	2:C:14:GLU:HG3	1.94	0.68
3:B:427:ARG:HH11	3:B:650:ILE:HD12	1.59	0.68
3:B:602:ILE:CG2	3:B:603:THR:H	2.06	0.68
5:E:3:LYS:HA	6:F:12:ILE:HG13	1.75	0.68
5:E:126:ILE:HG23	5:E:136:ILE:H	1.59	0.68
1:Q:252:SER:O	1:Q:257:ALA:HB2	1.92	0.68
1:Q:878:TRP:CZ3	2:G:50:LYS:HE2	2.29	0.68
2:G:310:ILE:HG22	2:G:314:LEU:CD2	2.24	0.68
3:R:317:TYR:CD2	3:R:526:LEU:HD13	2.29	0.68
3:R:900:THR:HG21	3:R:968:GLU:OE2	1.93	0.68
7:V:24:ASN:O	7:V:26:ASP:N	2.27	0.68
8:W:53:ILE:H	8:W:53:ILE:CD1	2.06	0.68
10:Y:22:ILE:HD13	10:Y:22:ILE:N	2.08	0.68
1:A:567:ASN:HB2	1:A:601:LYS:HG2	1.74	0.67
3:B:360:ALA:HB2	3:B:393:ARG:NH1	2.08	0.67
3:B:427:ARG:NH1	3:B:650:ILE:HD12	2.09	0.67
3:B:530:TYR:OH	3:B:536:LEU:HB2	1.94	0.67
3:B:696:HIS:ND1	4:D:57:ILE:HD11	2.09	0.67
3:B:1043:MET:HE3	5:E:61:PHE:CG	2.29	0.67
7:H:64:ARG:NH2	8:K:12:ASP:OD1	2.26	0.67
8:K:23:TRP:CE3	8:K:23:TRP:HA	2.28	0.67
8:K:23:TRP:HA	8:K:23:TRP:HE3	1.59	0.67
1:Q:55:GLY:O	1:Q:57:LYS:N	2.27	0.67
3:R:161:ILE:HG21	3:R:346:ALA:HA	1.76	0.67
3:R:971:TYR:CZ	3:R:978:LYS:HB3	2.30	0.67
4:S:12:ARG:HA	4:S:230:ILE:O	1.94	0.67
5:T:179:LYS:HE2	6:U:81:ASP:CB	2.21	0.67
1:A:47:PRO:HG2	1:A:48:ARG:H	1.59	0.67
1:A:262:ILE:HG12	1:A:266:TRP:HE1	1.58	0.67
1:A:427:ARG:N	2:C:76:GLN:NE2	2.42	0.67
2:C:115:LYS:HE2	2:C:279:GLU:HB2	1.76	0.67
4:D:235:SER:O	4:D:236:LEU:HD12	1.94	0.67
5:E:116:ASP:CG	5:E:117:THR:N	2.47	0.67
8:K:79:ARG:HG3	8:K:79:ARG:HH11	1.59	0.67
10:N:43:TYR:HA	10:N:46:ARG:HB3	1.75	0.67
1:Q:876:VAL:O	1:Q:878:TRP:N	2.27	0.67
2:G:393:ILE:HG22	2:G:394:LEU:H	1.58	0.67
3:R:702:LEU:HB2	3:R:721:ASN:CG	2.19	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:1069:TRP:HB3	3:R:1079:CYS:HA	1.77	0.67
8:W:82:LEU:H	8:W:82:LEU:HD23	1.58	0.67
10:Y:35:LEU:CD2	10:Y:40:VAL:HG21	2.22	0.67
2:C:40:GLU:O	2:C:45:ARG:HG2	1.93	0.67
3:B:40:GLN:HE22	3:B:62:LYS:HA	1.59	0.67
3:B:480:ILE:HG22	3:B:481:ASN:H	1.58	0.67
3:B:855:THR:C	3:B:857:GLU:N	2.48	0.67
10:N:42:ARG:CG	10:N:43:TYR:H	2.07	0.67
1:Q:203:ARG:CZ	1:Q:206:TRP:HB2	2.23	0.67
1:Q:551:VAL:HG13	1:Q:552:ILE:H	1.60	0.67
1:Q:765:THR:HG21	1:Q:797:PHE:HE2	1.58	0.67
3:R:450:TRP:CZ2	3:R:641:GLU:OE1	2.45	0.67
1:A:872:PHE:CG	1:A:876:VAL:HG21	2.29	0.67
3:B:119:LEU:HD12	3:B:120:PRO:CD	2.24	0.67
3:B:189:ILE:HB	3:B:203:GLU:CB	2.24	0.67
3:B:690:THR:HG22	3:B:691:ARG:HG3	1.76	0.67
3:B:739:ILE:CG2	3:B:909:ILE:HB	2.23	0.67
4:D:217:ILE:HD12	4:D:217:ILE:N	2.10	0.67
9:L:40:PHE:HB3	9:L:58:LEU:HB3	1.76	0.67
1:Q:324:THR:HG22	1:Q:325:VAL:N	2.08	0.67
1:Q:331:ASN:O	1:Q:332:ILE:CB	2.42	0.67
3:R:480:ILE:HG22	3:R:481:ASN:N	2.08	0.67
3:R:1097:PHE:CE2	3:R:1101:ILE:HD11	2.30	0.67
5:T:83:GLU:O	5:T:145:ARG:HA	1.94	0.67
5:T:110:ILE:O	5:T:113:ILE:HG22	1.94	0.67
1:A:324:THR:HG22	1:A:325:VAL:N	2.10	0.67
1:A:723:ASN:C	1:A:723:ASN:HD22	2.02	0.67
3:B:946:TYR:CD2	3:B:947:LYS:N	2.49	0.67
4:D:108:MET:HE1	10:N:2:LEU:CD2	2.24	0.67
6:F:16:VAL:C	6:F:18:LYS:H	2.03	0.67
8:K:71:ARG:HH11	8:K:71:ARG:HB2	1.59	0.67
3:R:330:ARG:HG2	3:R:330:ARG:HH11	1.59	0.67
3:R:433:LEU:HB2	3:R:435:ARG:CZ	2.25	0.67
3:R:959:ARG:HG2	3:R:959:ARG:HH11	1.59	0.67
3:R:972:ASP:OD2	3:R:974:ARG:HG2	1.95	0.67
6:U:30:SER:HG	6:U:38:TYR:HE1	1.39	0.67
2:C:104:LEU:HB3	2:C:105:PRO:CD	2.22	0.67
3:B:544:ARG:HH11	3:B:544:ARG:HG3	1.58	0.67
3:B:600:GLY:C	3:B:602:ILE:H	2.00	0.67
3:B:1057:MET:O	3:B:1058:ILE:HD13	1.95	0.67
4:D:64:LEU:HD22	10:N:6:ARG:HD3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:83:GLU:O	5:E:145:ARG:HA	1.95	0.67
5:T:126:ILE:HD11	5:T:137:GLN:HG2	1.76	0.67
8:W:60:ASP:OD2	8:W:60:ASP:N	2.27	0.67
1:A:234:ASP:C	1:A:236:THR:H	2.00	0.67
3:B:797:VAL:CB	11:P:36:MET:HE1	2.24	0.67
1:Q:15:SER:HA	1:Q:203:ARG:NH2	2.09	0.67
1:Q:238:LYS:HD3	1:Q:276:TYR:HA	1.76	0.67
1:Q:402:ALA:O	1:Q:404:GLY:N	2.28	0.67
2:G:388:LEU:HD11	8:W:34:ARG:HG3	1.76	0.67
3:R:683:ASN:O	3:R:685:GLN:N	2.28	0.67
3:R:690:THR:HG22	3:R:691:ARG:HG3	1.77	0.67
5:T:126:ILE:HG23	5:T:136:ILE:H	1.59	0.67
7:V:38:ARG:HH11	7:V:38:ARG:HG2	1.60	0.67
1:A:203:ARG:NH1	1:A:206:TRP:HB2	2.08	0.67
1:A:490:ARG:HG3	2:C:77:SER:HB3	1.77	0.67
3:B:157:SER:O	3:B:158:GLU:HB2	1.95	0.67
3:B:1009:VAL:HG12	3:B:1016:PRO:HA	1.77	0.67
3:B:1069:TRP:HB3	3:B:1079:CYS:HA	1.74	0.67
3:B:1079:CYS:SG	3:B:1080:PRO:HD2	2.34	0.67
4:D:250:ILE:HA	4:D:253:ILE:CG2	2.25	0.67
1:Q:490:ARG:HG3	2:G:77:SER:HB3	1.76	0.67
1:Q:567:ASN:HB3	1:Q:599:ASP:OD2	1.95	0.67
3:R:373:LYS:CE	3:R:375:ARG:HD2	2.25	0.67
3:R:910:LEU:HD23	3:R:911:ASN:N	2.10	0.67
3:R:967:THR:HB	3:R:982:ARG:HG2	1.77	0.67
4:S:51:SER:HA	4:S:137:GLN:NE2	2.10	0.67
5:T:4:LEU:HD21	5:T:73:ASP:HB3	1.76	0.67
6:U:31:SER:HA	6:U:35:GLN:HE21	1.58	0.67
1:A:47:PRO:HG2	1:A:48:ARG:HD3	1.75	0.67
3:B:581:ILE:HD11	3:B:614:GLU:CB	2.19	0.67
5:E:110:ILE:O	5:E:113:ILE:HG22	1.95	0.67
6:F:79:THR:O	6:F:83:VAL:HG23	1.95	0.67
1:Q:534:LEU:HD23	9:X:39:SER:OG	1.95	0.67
1:Q:567:ASN:HB2	1:Q:601:LYS:HG2	1.75	0.67
2:G:63:LEU:HD21	8:W:23:TRP:CZ3	2.30	0.67
2:G:146:TYR:HD1	2:G:146:TYR:H	1.38	0.67
3:R:200:VAL:O	3:R:200:VAL:HG13	1.95	0.67
3:R:795:ASN:ND2	11:Z:36:MET:HE2	2.09	0.67
1:A:238:LYS:HZ2	1:A:276:TYR:C	2.02	0.67
1:A:376:ASN:O	1:A:377:TYR:CB	2.41	0.67
3:B:754:PHE:HE2	3:B:756:ARG:HB2	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:853:THR:HG23	11:P:32:LYS:O	1.94	0.67
3:B:971:TYR:CE2	4:D:165:ARG:HA	2.30	0.67
1:Q:328:PRO:HG3	1:Q:457:PHE:CD1	2.30	0.67
1:Q:490:ARG:HA	2:G:312:HIS:HE1	1.58	0.67
1:Q:721:PRO:HA	1:Q:726:TYR:CD1	2.30	0.67
1:Q:728:MET:O	1:Q:733:ALA:HB3	1.95	0.67
3:R:189:ILE:HB	3:R:203:GLU:CB	2.24	0.67
4:S:205:LEU:HA	4:S:221:PHE:HZ	1.60	0.67
1:A:245:ILE:HD13	1:A:268:LEU:HD13	1.75	0.66
1:A:390:TYR:HD1	1:A:391:VAL:HG23	1.60	0.66
1:A:409:ARG:HB3	1:A:409:ARG:HH11	1.59	0.66
1:A:558:LYS:HZ1	3:R:108:GLU:HG3	1.60	0.66
1:A:648:LEU:HD23	1:A:648:LEU:O	1.95	0.66
1:A:749:GLN:H	1:A:781:PHE:CA	2.06	0.66
1:A:842:TYR:HB3	1:A:844:GLU:HG3	1.77	0.66
2:C:126:LEU:HD11	2:C:249:TYR:HB2	1.77	0.66
3:B:1014:ARG:HG2	3:B:1014:ARG:NH1	2.08	0.66
7:H:20:HIS:O	7:H:21:GLU:HG3	1.94	0.66
7:H:29:TYR:HA	7:H:32:LEU:CD1	2.07	0.66
1:Q:199:PRO:HA	1:Q:202:SER:O	1.94	0.66
1:Q:234:ASP:C	1:Q:236:THR:H	2.03	0.66
1:Q:558:LYS:H	1:Q:558:LYS:HD3	1.59	0.66
2:G:28:ILE:HG21	8:W:14:HIS:HB3	1.76	0.66
3:R:1083:GLY:C	3:R:1085:LYS:H	2.03	0.66
6:U:79:THR:HG22	6:U:80:SER:H	1.58	0.66
1:A:337:VAL:HG23	1:A:433:HIS:HB3	1.77	0.66
1:A:346:THR:HG21	3:B:1003:ALA:HB1	1.75	0.66
6:F:52:ALA:HA	6:F:55:VAL:HG23	1.76	0.66
8:K:70:ARG:HB3	8:K:70:ARG:HH11	1.60	0.66
1:Q:193:GLU:O	1:Q:195:LEU:N	2.27	0.66
1:Q:203:ARG:HH11	1:Q:203:ARG:CG	2.09	0.66
1:Q:648:LEU:O	1:Q:648:LEU:HD23	1.94	0.66
3:R:278:ILE:HG22	3:R:279:GLY:N	2.10	0.66
3:R:287:GLU:C	3:R:289:ALA:H	2.03	0.66
1:A:490:ARG:HA	2:C:312:HIS:HE1	1.61	0.66
3:B:59:ARG:HH12	3:B:107:ILE:HD12	1.60	0.66
1:Q:308:ARG:NH2	3:R:1012:LEU:HD11	2.11	0.66
2:G:115:LYS:C	2:G:116:VAL:HG22	2.20	0.66
2:G:369:VAL:O	2:G:373:ILE:HB	1.95	0.66
3:R:1069:TRP:HE1	3:R:1088:LEU:CB	2.09	0.66
4:S:67:PHE:HD2	4:S:121:VAL:HG12	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:199:PRO:HA	1:A:202:SER:O	1.95	0.66
1:A:480:MET:HG2	3:B:1039:PHE:CE1	2.31	0.66
1:A:481:LEU:CD2	1:A:482:VAL:H	2.07	0.66
1:A:522:GLN:HG2	9:L:40:PHE:CE1	2.30	0.66
2:C:115:LYS:HB2	2:C:278:ARG:HG3	1.78	0.66
3:B:870:ARG:CZ	3:B:996:MET:SD	2.83	0.66
4:D:12:ARG:HA	4:D:230:ILE:O	1.95	0.66
8:K:61:VAL:HG12	8:K:62:ILE:H	1.60	0.66
1:Q:489:PRO:HB3	1:Q:858:MET:HG3	1.75	0.66
1:Q:828:SER:C	1:Q:830:LEU:H	2.03	0.66
3:R:934:ALA:O	10:Y:46:ARG:HD3	1.96	0.66
3:R:943:THR:HG22	3:R:944:PRO:CD	2.25	0.66
5:T:113:ILE:HG23	5:T:114:THR:N	2.08	0.66
1:A:68:CYS:SG	1:A:71:HIS:NE2	2.67	0.66
1:A:238:LYS:CE	1:A:297:THR:HB	2.25	0.66
2:C:122:MET:HB2	2:C:253:THR:OG1	1.96	0.66
2:C:390:MET:HG3	5:E:57:GLY:N	2.10	0.66
6:F:53:GLN:O	6:F:57:GLU:HG3	1.94	0.66
3:R:838:VAL:HG12	3:R:839:THR:H	1.60	0.66
3:R:861:LEU:HD12	3:R:862:VAL:H	1.61	0.66
1:A:349:VAL:HG21	1:A:415:ASP:OD2	1.96	0.66
1:A:558:LYS:CG	3:R:104:GLU:HB2	2.26	0.66
1:A:775:SER:OG	1:A:776:PRO:HD2	1.94	0.66
3:B:70:VAL:HG22	3:B:78:ARG:O	1.96	0.66
3:B:897:MET:SD	3:B:906:PRO:HG2	2.36	0.66
10:N:30:ASN:O	10:N:34:VAL:HG23	1.95	0.66
1:Q:765:THR:HG22	1:Q:766:LEU:CD2	2.24	0.66
1:Q:872:PHE:CG	1:Q:876:VAL:HG21	2.31	0.66
1:Q:874:ARG:NE	2:G:53:ASP:HB3	2.03	0.66
1:Q:876:VAL:C	1:Q:878:TRP:H	2.03	0.66
3:R:164:GLN:HG2	3:R:349:LEU:HD21	1.77	0.66
3:R:197:ARG:HB2	3:R:199:PRO:HD3	1.76	0.66
3:R:253:PHE:N	3:R:254:PRO:HD2	2.11	0.66
3:R:1033:ARG:HH11	3:R:1033:ARG:CG	2.08	0.66
1:A:525:LEU:HD11	1:A:530:VAL:HG11	1.78	0.66
3:B:48:GLU:HG2	3:B:58:VAL:HB	1.77	0.66
3:B:588:LEU:HD22	3:B:612:LYS:HG2	1.78	0.66
1:Q:345:LYS:HA	1:Q:410:HIS:CD2	2.30	0.66
2:G:54:LEU:O	2:G:58:GLU:HG3	1.96	0.66
2:G:269:VAL:HA	2:G:272:VAL:CG2	2.26	0.66
1:A:203:ARG:CZ	1:A:206:TRP:HB2	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:277:ALA:HB3	3:B:280:GLN:OE1	1.94	0.66
3:B:545:ARG:NE	3:B:581:ILE:HD13	2.10	0.66
3:B:1081:ILE:HG21	3:B:1085:LYS:HZ3	1.60	0.66
4:D:205:LEU:HA	4:D:221:PHE:HZ	1.59	0.66
1:Q:390:TYR:HD1	1:Q:391:VAL:HG23	1.61	0.66
3:R:153:ILE:CG2	3:R:156:GLY:HA2	2.26	0.66
3:R:1081:ILE:HG21	3:R:1085:LYS:NZ	2.10	0.66
7:V:18:PRO:HB2	7:V:67:ARG:HA	1.78	0.66
8:W:53:ILE:HD12	8:W:53:ILE:N	2.08	0.66
1:A:438:LEU:O	1:A:438:LEU:HD23	1.95	0.66
1:A:446:ASN:C	1:A:446:ASN:ND2	2.48	0.66
1:A:561:ASN:HA	1:A:588:ILE:O	1.96	0.66
1:A:721:PRO:HA	1:A:726:TYR:CD1	2.31	0.66
1:A:765:THR:HG22	1:A:766:LEU:CD2	2.25	0.66
3:B:200:VAL:O	3:B:200:VAL:HG13	1.96	0.66
3:B:930:GLY:HA2	10:N:47:ARG:HH22	1.60	0.66
4:D:191:LYS:H	4:D:194:LYS:HB2	1.60	0.66
5:E:126:ILE:CD1	5:E:137:GLN:HG2	2.26	0.66
6:F:79:THR:HG22	6:F:80:SER:H	1.61	0.66
1:Q:15:SER:O	1:Q:19:ILE:HG13	1.95	0.66
1:Q:364:PHE:CE1	1:Q:409:ARG:HD2	2.31	0.66
3:R:116:ILE:HG23	3:R:361:PHE:CE1	2.31	0.66
3:R:530:TYR:OH	3:R:536:LEU:HB2	1.95	0.66
3:R:765:TYR:CG	3:R:766:PRO:HD2	2.31	0.66
3:R:946:TYR:CD2	3:R:947:LYS:N	2.51	0.66
1:A:57:LYS:HB3	1:A:62:GLY:HA2	1.78	0.66
1:A:876:VAL:O	1:A:878:TRP:N	2.29	0.66
3:B:473:MET:SD	3:B:474:ALA:N	2.69	0.66
3:B:488:THR:HG21	3:B:549:ILE:HD11	1.77	0.66
4:D:98:ILE:CG1	4:D:114:ILE:HG12	2.24	0.66
6:F:31:SER:HA	6:F:35:GLN:HE21	1.60	0.66
7:H:62:ILE:H	7:H:62:ILE:HD13	1.61	0.66
1:Q:807:VAL:CG1	3:R:443:ARG:HH11	2.09	0.66
2:G:11:PRO:O	2:G:14:GLU:HG3	1.96	0.66
3:R:70:VAL:HG22	3:R:78:ARG:O	1.96	0.66
3:R:222:PRO:HD2	3:R:225:ILE:HD12	1.77	0.66
3:R:300:HIS:O	3:R:301:LEU:C	2.39	0.66
3:R:1043:MET:HE3	5:T:61:PHE:CD2	2.30	0.66
7:V:13:ILE:HG23	7:V:14:HIS:H	1.61	0.66
1:A:446:ASN:HD22	1:A:447:LEU:N	1.93	0.65
1:A:558:LYS:H	1:A:558:LYS:HD3	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:861:ALA:O	1:A:862:HIS:CD2	2.49	0.65
2:C:63:LEU:O	2:C:63:LEU:HD23	1.97	0.65
3:B:67:LYS:HB3	3:B:68:PRO:HD2	1.78	0.65
3:B:479:GLY:HA2	3:B:552:GLU:CB	2.23	0.65
4:D:77:ARG:N	4:D:91:LYS:O	2.28	0.65
1:Q:234:ASP:OD2	1:Q:296:ARG:HD3	1.96	0.65
1:Q:446:ASN:C	1:Q:446:ASN:ND2	2.53	0.65
1:Q:650:ASP:HB3	1:Q:723:ASN:HD21	1.59	0.65
1:Q:831:ARG:HH21	2:G:385:MET:HB2	1.61	0.65
2:G:392:PRO:HB3	5:T:22:LEU:HD21	1.77	0.65
3:R:600:GLY:O	3:R:602:ILE:HG13	1.96	0.65
3:R:1099:LEU:HB3	3:R:1103:GLU:OE1	1.96	0.65
1:A:736:SER:HB3	1:A:739:ASN:OD1	1.97	0.65
1:A:867:ASP:OD1	2:C:32:LEU:HB3	1.96	0.65
2:C:393:ILE:HG22	2:C:394:LEU:H	1.60	0.65
3:B:343:LEU:HD12	3:B:343:LEU:N	2.10	0.65
3:B:417:THR:O	3:B:418:ASN:HB3	1.95	0.65
3:B:696:HIS:HE2	3:B:753:THR:HG1	1.44	0.65
3:B:792:LEU:HD11	3:B:809:VAL:CG1	2.25	0.65
3:B:838:VAL:HG12	3:B:839:THR:H	1.61	0.65
1:Q:308:ARG:O	1:Q:313:LEU:HB2	1.96	0.65
2:G:321:THR:HG22	7:V:79:ARG:HH12	1.62	0.65
3:R:517:TRP:CD1	3:R:531:GLN:H	2.10	0.65
3:R:662:GLN:HG2	3:R:664:PRO:HD2	1.78	0.65
3:R:1085:LYS:HE3	3:R:1086:SER:HB3	1.76	0.65
7:V:52:ALA:C	7:V:54:SER:N	2.52	0.65
2:C:329:ILE:CA	2:C:334:VAL:HG12	2.24	0.65
3:B:89:ASN:HD21	3:B:863:LYS:NZ	1.94	0.65
3:B:108:GLU:O	3:B:110:GLU:N	2.29	0.65
3:B:658:PRO:C	3:B:660:HIS:H	2.03	0.65
3:B:1069:TRP:HE1	3:B:1088:LEU:CB	2.08	0.65
8:K:61:VAL:HG12	8:K:62:ILE:N	2.12	0.65
8:K:82:LEU:HB2	8:K:83:PRO:HD2	1.77	0.65
10:N:10:CYS:HB3	10:N:44:CYS:SG	2.35	0.65
1:Q:47:PRO:HG2	1:Q:48:ARG:H	1.61	0.65
1:Q:531:LYS:O	1:Q:532:ILE:HB	1.96	0.65
2:G:288:ALA:HB2	7:V:17:VAL:HB	1.78	0.65
3:R:102:PRO:HG2	3:R:108:GLU:OE2	1.96	0.65
3:R:330:ARG:HG2	3:R:330:ARG:NH1	2.10	0.65
3:R:855:THR:C	3:R:857:GLU:N	2.51	0.65
4:S:29:ARG:HG3	4:S:162:SER:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:483:HIS:CD2	1:A:625:LYS:HD2	2.32	0.65
1:A:501:ASP:OD2	3:B:913:HIS:HD2	1.80	0.65
1:A:877:GLY:CA	3:R:377:ARG:HH12	2.10	0.65
3:B:197:ARG:HB2	3:B:199:PRO:HD3	1.78	0.65
3:B:403:TRP:C	3:B:404:VAL:CG2	2.68	0.65
3:B:473:MET:HE1	3:B:475:GLN:O	1.96	0.65
3:B:640:LEU:CD2	3:B:641:GLU:N	2.50	0.65
3:B:656:PRO:HD3	3:B:881:ARG:HH21	1.62	0.65
2:G:318:ASP:O	2:G:322:ARG:HD3	1.96	0.65
3:R:48:GLU:HG2	3:R:58:VAL:HB	1.77	0.65
3:R:235:ASP:O	3:R:239:VAL:HG23	1.96	0.65
5:T:64:GLY:N	8:W:41:LEU:CD2	2.59	0.65
6:U:52:ALA:HA	6:U:55:VAL:HG23	1.76	0.65
1:A:81:VAL:HG12	1:A:270:GLN:HG3	1.78	0.65
1:A:276:TYR:HD2	1:A:277:PHE:CD1	2.15	0.65
1:A:823:LEU:HB3	2:C:329:ILE:HD13	1.79	0.65
1:A:859:TYR:HB2	2:C:64:ILE:CG1	2.27	0.65
2:C:111:VAL:HG13	2:C:329:ILE:HD12	1.77	0.65
3:B:214:PHE:CG	3:B:215:PRO:HD2	2.31	0.65
3:B:794:ASP:OD2	11:P:18:LEU:HD11	1.95	0.65
6:F:77:PRO:CG	6:F:83:VAL:HG22	2.25	0.65
7:H:81:VAL:O	7:H:82:ILE:HG12	1.97	0.65
1:Q:90:ILE:HG23	1:Q:184:LEU:HD11	1.79	0.65
1:Q:431:MET:CE	1:Q:482:VAL:HG13	2.27	0.65
1:Q:517:THR:HG22	1:Q:518:LYS:N	2.11	0.65
1:Q:827:LEU:HG	2:G:75:ALA:HB2	1.77	0.65
3:R:295:LYS:C	3:R:296:TYR:HD1	2.05	0.65
3:R:628:LEU:HD23	3:R:628:LEU:N	2.09	0.65
5:T:18:PHE:CD2	8:W:47:ALA:HB1	2.32	0.65
8:W:70:ARG:C	8:W:72:GLY:H	2.05	0.65
8:W:91:SER:O	8:W:92:LEU:CB	2.43	0.65
1:A:531:LYS:O	1:A:532:ILE:HB	1.96	0.65
1:A:853:ASP:OD2	2:C:311:ARG:NH2	2.29	0.65
3:B:88:ARG:HD3	3:B:853:THR:CG2	2.15	0.65
3:B:244:LEU:HD13	3:B:500:VAL:HB	1.78	0.65
5:E:38:ILE:O	5:E:39:LEU:HB2	1.94	0.65
7:H:38:ARG:HG2	7:H:38:ARG:HH11	1.60	0.65
1:Q:6:ILE:HD13	3:R:1113:LEU:HD22	1.79	0.65
1:Q:604:GLY:C	1:Q:606:GLN:N	2.44	0.65
1:Q:646:MET:CE	1:Q:725:ALA:HB2	2.26	0.65
1:Q:723:ASN:C	1:Q:723:ASN:HD22	2.02	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:842:TYR:HB3	1:Q:844:GLU:HG3	1.79	0.65
3:R:70:VAL:HG13	3:R:80:ILE:HD13	1.79	0.65
3:R:214:PHE:CG	3:R:215:PRO:HD2	2.32	0.65
3:R:517:TRP:HD1	3:R:531:GLN:N	1.94	0.65
3:R:812:GLY:HA2	3:R:836:SER:HB3	1.78	0.65
6:U:79:THR:O	6:U:83:VAL:HG23	1.96	0.65
7:V:9:ILE:O	7:V:9:ILE:HG22	1.95	0.65
8:W:26:ARG:HB3	8:W:27:LEU:HD12	1.79	0.65
10:Y:3:ILE:HG12	10:Y:18:TRP:CG	2.31	0.65
1:A:319:ASP:O	1:A:320:PHE:HB2	1.96	0.65
1:A:567:ASN:HB3	1:A:599:ASP:OD2	1.97	0.65
3:B:789:TYR:O	3:B:791:LEU:N	2.30	0.65
3:B:1069:TRP:NE1	3:B:1088:LEU:HD13	2.12	0.65
8:K:70:ARG:C	8:K:72:GLY:H	2.05	0.65
3:R:139:ILE:HG21	10:Y:61:HIS:HD2	1.62	0.65
3:R:1054:ASP:HB2	3:R:1094:SER:HA	1.77	0.65
5:T:64:GLY:N	8:W:41:LEU:HD22	2.12	0.65
8:W:71:ARG:HB2	8:W:71:ARG:HH11	1.61	0.65
3:B:214:PHE:CD1	3:B:215:PRO:HD2	2.32	0.65
3:B:1085:LYS:HE3	3:B:1086:SER:HB3	1.78	0.65
1:Q:16:PRO:HG2	1:Q:17:ASP:H	1.62	0.65
1:Q:450:CYS:HB2	1:Q:451:PRO:HD3	1.78	0.65
1:Q:480:MET:HG2	3:R:1039:PHE:CE1	2.32	0.65
1:Q:647:ARG:HB2	1:Q:650:ASP:OD2	1.96	0.65
2:G:379:ILE:H	2:G:379:ILE:HD13	1.61	0.65
3:R:98:LEU:HD11	3:R:100:MET:HG3	1.79	0.65
3:R:244:LEU:HD13	3:R:500:VAL:HB	1.78	0.65
3:R:591:ILE:CG1	3:R:612:LYS:NZ	2.58	0.65
3:R:672:MET:CG	3:R:993:LEU:HD21	2.26	0.65
3:R:873:THR:CG2	3:R:874:ILE:H	2.10	0.65
6:U:16:VAL:C	6:U:18:LYS:H	2.05	0.65
1:A:8:GLY:O	3:B:1114:VAL:HG13	1.96	0.65
1:A:177:PRO:HG2	1:A:270:GLN:NE2	2.12	0.65
1:A:203:ARG:HH11	1:A:203:ARG:CG	2.10	0.65
1:A:609:GLU:HB3	1:A:614:TRP:CZ2	2.32	0.65
1:A:831:ARG:HH21	2:C:385:MET:CG	2.09	0.65
2:C:244:LYS:HA	2:C:249:TYR:HA	1.78	0.65
3:B:210:PHE:CZ	3:B:323:ILE:HG22	2.32	0.65
3:B:368:GLN:HE22	3:B:386:ARG:HE	1.42	0.65
3:B:419:TRP:CZ3	3:B:712:GLY:HA3	2.31	0.65
3:B:458:THR:HG23	3:B:467:VAL:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:895:VAL:HG11	4:D:34:LEU:HD21	1.79	0.65
1:Q:609:GLU:HB3	1:Q:614:TRP:CZ2	2.32	0.65
3:R:6:THR:HG22	3:R:7:ILE:H	1.61	0.65
5:T:45:VAL:HG22	5:T:74:MET:HE3	1.79	0.65
5:T:86:GLU:OE1	6:U:75:ILE:HG23	1.97	0.65
8:W:63:SER:C	8:W:65:ALA:N	2.54	0.65
7:H:52:ALA:C	7:H:54:SER:N	2.51	0.65
10:N:6:ARG:HA	10:N:12:SER:O	1.96	0.65
1:Q:177:PRO:HG2	1:Q:270:GLN:HE22	1.60	0.65
1:Q:488:THR:CG2	1:Q:490:ARG:H	2.09	0.65
2:G:123:THR:OG1	2:G:273:GLU:HB3	1.97	0.65
3:R:59:ARG:HH22	3:R:107:ILE:CD1	2.10	0.65
3:R:148:PRO:HG3	3:R:422:MET:CE	2.27	0.65
4:S:258:LYS:O	4:S:261:VAL:HG22	1.97	0.65
10:Y:43:TYR:HA	10:Y:46:ARG:HB3	1.78	0.65
1:A:353:ILE:HG13	1:A:361:LEU:HD23	1.78	0.64
1:A:825:ASN:O	1:A:828:SER:HB3	1.97	0.64
3:B:153:ILE:CG2	3:B:156:GLY:HA2	2.25	0.64
3:B:729:PHE:C	3:B:731:GLY:H	2.05	0.64
1:Q:238:LYS:HZ2	1:Q:276:TYR:C	2.04	0.64
2:G:244:LYS:HA	2:G:249:TYR:HA	1.79	0.64
2:G:392:PRO:HG3	5:T:68:HIS:HE1	1.63	0.64
3:R:480:ILE:HG22	3:R:481:ASN:H	1.62	0.64
3:R:851:LEU:HG	11:Z:35:PHE:CD2	2.29	0.64
5:T:17:GLU:HG2	5:T:20:LYS:NZ	2.10	0.64
1:A:16:PRO:HG2	1:A:17:ASP:H	1.63	0.64
1:A:339:VAL:CG2	1:A:435:VAL:HG23	2.27	0.64
3:B:282:ARG:HA	3:B:285:ARG:HD2	1.78	0.64
3:B:591:ILE:CG1	3:B:612:LYS:NZ	2.59	0.64
3:B:727:MET:HE3	3:B:898:PRO:HG3	1.79	0.64
3:B:971:TYR:CZ	3:B:978:LYS:HB3	2.31	0.64
9:L:15:LEU:HB3	9:L:55:VAL:HG23	1.79	0.64
1:Q:245:ILE:CD1	1:Q:268:LEU:HB3	2.26	0.64
1:Q:486:ILE:HD11	1:Q:628:MET:CE	2.13	0.64
1:Q:522:GLN:OE1	9:X:40:PHE:HA	1.97	0.64
2:G:377:HIS:ND1	2:G:378:PRO:HD2	2.13	0.64
3:R:778:ALA:HA	3:R:783:TYR:CE1	2.32	0.64
3:R:946:TYR:CD1	3:R:949:PRO:HA	2.32	0.64
5:T:50:ASN:O	5:T:72:PHE:HA	1.96	0.64
1:A:176:THR:HG23	1:A:179:ASP:CB	2.26	0.64
2:C:123:THR:OG1	2:C:273:GLU:HB3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:344:ARG:HB2	2:C:344:ARG:NH1	2.08	0.64
3:B:64:ARG:H	3:B:97:TRP:HB2	1.61	0.64
3:B:624:ALA:HB1	3:B:639:HIS:HD2	1.63	0.64
3:B:663:SER:CB	3:B:664:PRO:HD3	2.27	0.64
3:B:1087:ASN:O	3:B:1088:LEU:HG	1.97	0.64
8:K:32:ILE:O	8:K:35:VAL:HG22	1.96	0.64
1:Q:6:ILE:HD11	3:R:1091:VAL:HG11	1.79	0.64
1:Q:325:VAL:O	1:Q:442:THR:HB	1.97	0.64
1:Q:763:THR:HG21	1:Q:772:TYR:CD2	2.32	0.64
2:G:102:LEU:HD23	2:G:103:GLY:H	1.58	0.64
2:G:250:ILE:HG22	2:G:251:ILE:N	2.12	0.64
3:R:157:SER:O	3:R:158:GLU:HB2	1.96	0.64
3:R:545:ARG:NE	3:R:581:ILE:HD13	2.12	0.64
3:R:557:HIS:CE1	3:R:566:VAL:HG13	2.32	0.64
4:S:98:ILE:CD1	4:S:114:ILE:HG23	2.24	0.64
5:T:26:ALA:O	5:T:30:LEU:HB2	1.96	0.64
1:A:90:ILE:CD1	1:A:207:MET:HB3	2.27	0.64
1:A:245:ILE:CD1	1:A:268:LEU:HB3	2.27	0.64
1:A:839:ARG:HA	1:A:844:GLU:O	1.97	0.64
3:B:517:TRP:CD1	3:B:531:GLN:H	2.12	0.64
3:B:934:ALA:HB2	10:N:47:ARG:HD3	1.77	0.64
3:B:1054:ASP:HB2	3:B:1094:SER:HA	1.78	0.64
5:E:29:GLU:O	5:E:33:GLN:HG3	1.97	0.64
7:H:34:GLU:HG3	8:K:84:ASN:OD1	1.97	0.64
1:Q:338:GLY:HA3	1:Q:444:ARG:CG	2.26	0.64
1:Q:749:GLN:H	1:Q:781:PHE:CA	2.07	0.64
3:R:40:GLN:HE22	3:R:62:LYS:HA	1.62	0.64
3:R:98:LEU:CD1	3:R:100:MET:HG3	2.27	0.64
3:R:582:VAL:HG22	3:R:586:ASN:O	1.97	0.64
3:R:853:THR:HG23	11:Z:32:LYS:O	1.98	0.64
6:U:53:GLN:O	6:U:57:GLU:HG3	1.97	0.64
1:A:71:HIS:HB3	3:B:1070:TYR:OH	1.97	0.64
1:A:345:LYS:HA	1:A:410:HIS:CD2	2.32	0.64
1:A:431:MET:HE1	1:A:482:VAL:HG13	1.78	0.64
1:A:828:SER:C	1:A:830:LEU:H	2.05	0.64
2:C:102:LEU:HD23	2:C:103:GLY:H	1.60	0.64
3:B:495:VAL:O	3:B:528:GLY:HA3	1.98	0.64
3:B:727:MET:HB2	3:B:983:ILE:HD12	1.78	0.64
3:B:971:TYR:CZ	4:D:165:ARG:HA	2.33	0.64
3:B:1107:MET:C	3:B:1108:ILE:HD12	2.22	0.64
2:G:55:ALA:CA	2:G:58:GLU:HG3	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:297:ILE:HG22	2:G:313:ILE:HD13	1.80	0.64
3:R:5:LEU:O	3:R:5:LEU:HD22	1.97	0.64
3:R:20:SER:O	3:R:21:LYS:HG2	1.96	0.64
3:R:171:ARG:HD2	3:R:342:ARG:NH2	2.13	0.64
3:R:291:GLN:C	3:R:293:ILE:H	2.05	0.64
3:R:558:ILE:HG12	3:R:567:HIS:CD2	2.33	0.64
3:R:591:ILE:HG21	3:R:607:LEU:HD21	1.80	0.64
3:R:595:GLU:HA	3:R:599:SER:HB3	1.78	0.64
3:R:729:PHE:C	3:R:731:GLY:H	2.05	0.64
3:R:729:PHE:O	3:R:731:GLY:N	2.29	0.64
4:S:105:GLU:N	4:S:135:THR:HG22	2.13	0.64
8:W:82:LEU:HD12	8:W:84:ASN:HB2	1.79	0.64
1:A:234:ASP:OD2	1:A:296:ARG:HD3	1.96	0.64
1:A:646:MET:CE	1:A:725:ALA:HB2	2.27	0.64
2:C:103:GLY:HA3	2:C:300:VAL:HG13	1.80	0.64
3:B:393:ARG:HH21	3:B:403:TRP:HH2	1.42	0.64
3:B:433:LEU:HB2	3:B:435:ARG:CZ	2.27	0.64
3:B:1083:GLY:C	3:B:1085:LYS:H	2.05	0.64
1:Q:349:VAL:HG21	1:Q:415:ASP:OD2	1.98	0.64
2:G:282:GLU:O	7:V:50:PRO:HB3	1.97	0.64
3:R:1079:CYS:C	3:R:1081:ILE:H	2.05	0.64
6:U:72:LEU:C	6:U:74:SER:H	2.05	0.64
10:Y:55:ILE:O	10:Y:59:VAL:HG23	1.97	0.64
1:A:386:ILE:O	1:A:387:ASP:O	2.14	0.64
2:C:250:ILE:HG22	2:C:251:ILE:N	2.13	0.64
2:C:305:GLY:O	2:C:306:LEU:O	2.16	0.64
3:B:246:PRO:HG2	3:B:249:GLN:CG	2.28	0.64
3:B:278:ILE:HG22	3:B:279:GLY:N	2.12	0.64
3:B:557:HIS:CE1	3:B:566:VAL:HG13	2.32	0.64
4:D:16:VAL:O	4:D:16:VAL:HG12	1.97	0.64
4:D:236:LEU:HB2	4:D:241:ILE:HD11	1.80	0.64
1:Q:79:ARG:HB2	1:Q:266:TRP:HE3	1.61	0.64
1:Q:334:ILE:HG22	1:Q:482:VAL:HG11	1.78	0.64
1:Q:452:PRO:HA	1:Q:495:ILE:CD1	2.28	0.64
1:Q:859:TYR:HB2	2:G:64:ILE:CG1	2.28	0.64
3:R:792:LEU:HD11	3:R:809:VAL:CG1	2.27	0.64
3:R:800:PRO:HG2	11:Z:37:VAL:HA	1.80	0.64
4:S:23:GLU:O	9:X:27:LEU:HD13	1.98	0.64
6:U:77:PRO:CG	6:U:83:VAL:HG22	2.28	0.64
7:V:42:LEU:CD1	7:V:80:TYR:HB2	2.26	0.64
8:W:43:LEU:CD1	8:W:64:ILE:HG13	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:589:LYS:HZ3	1:A:879:LYS:H	1.46	0.64
1:A:604:GLY:C	1:A:606:GLN:N	2.48	0.64
3:B:245:ASP:N	3:B:246:PRO:HD3	2.13	0.64
3:B:295:LYS:C	3:B:296:TYR:HD1	2.06	0.64
3:B:765:TYR:CG	3:B:766:PRO:HD2	2.32	0.64
3:B:1081:ILE:HG21	3:B:1085:LYS:NZ	2.13	0.64
4:D:29:ARG:HG3	4:D:162:SER:O	1.97	0.64
9:L:87:ILE:CG2	9:L:88:LYS:N	2.61	0.64
3:R:8:ASP:O	3:R:12:ARG:HG2	1.98	0.64
10:Y:54:ASP:OD2	10:Y:56:ILE:HG22	1.98	0.64
2:C:277:ILE:C	2:C:279:GLU:N	2.55	0.64
3:B:154:VAL:HG21	3:B:399:ALA:CB	2.28	0.64
3:B:588:LEU:CD1	3:B:612:LYS:HB3	2.24	0.64
3:B:600:GLY:O	3:B:602:ILE:HG13	1.98	0.64
3:B:904:VAL:CG2	10:N:42:ARG:HG2	2.28	0.64
10:N:54:ASP:OD2	10:N:56:ILE:HG22	1.98	0.64
1:Q:369:PRO:HA	1:Q:410:HIS:HE1	1.63	0.64
1:Q:446:ASN:HD22	1:Q:447:LEU:N	1.95	0.64
3:R:154:VAL:HG21	3:R:399:ALA:CB	2.27	0.64
3:R:348:ASP:OD2	3:R:348:ASP:N	2.31	0.64
3:R:624:ALA:HB1	3:R:639:HIS:HD2	1.63	0.64
1:A:589:LYS:HD3	1:A:877:GLY:O	1.98	0.64
2:C:52:PHE:O	2:C:55:ALA:HB3	1.98	0.64
2:C:297:ILE:C	2:C:299:LYS:H	2.04	0.64
3:B:43:ILE:O	3:B:43:ILE:HG22	1.98	0.64
3:B:463:ASN:HB3	3:B:467:VAL:HG12	1.80	0.64
3:B:630:PRO:O	3:B:633:LEU:HB3	1.97	0.64
3:B:691:ARG:NH1	3:B:756:ARG:NH2	2.45	0.64
3:B:778:ALA:HA	3:B:783:TYR:CE1	2.32	0.64
4:D:39:MET:HE3	4:D:72:ALA:HB1	1.78	0.64
8:K:45:MET:HA	8:K:45:MET:CE	2.23	0.64
8:K:60:ASP:OD2	8:K:60:ASP:N	2.31	0.64
1:Q:90:ILE:CD1	1:Q:207:MET:HB3	2.27	0.64
1:Q:506:ALA:HA	1:Q:635:PHE:CE2	2.33	0.64
2:G:28:ILE:HD13	8:W:14:HIS:HB3	1.80	0.64
2:G:310:ILE:H	2:G:310:ILE:CD1	2.08	0.64
3:R:183:ILE:HG13	3:R:206:LYS:HB3	1.80	0.64
3:R:663:SER:CB	3:R:664:PRO:HD3	2.28	0.64
5:T:29:GLU:O	5:T:33:GLN:HG3	1.98	0.64
8:W:70:ARG:HB3	8:W:70:ARG:HH11	1.62	0.64
1:A:876:VAL:C	1:A:878:TRP:H	2.05	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:318:ASP:O	2:C:322:ARG:HD3	1.98	0.63
3:B:98:LEU:CD1	3:B:100:MET:HG3	2.28	0.63
3:B:861:LEU:HD12	3:B:862:VAL:H	1.63	0.63
4:D:97:TYR:C	4:D:98:ILE:HD12	2.23	0.63
4:D:115:LYS:O	4:D:116:SER:HB3	1.97	0.63
1:Q:12:GLY:HA2	2:G:358:ALA:O	1.97	0.63
1:Q:15:SER:HB2	1:Q:16:PRO:HD2	1.79	0.63
1:Q:176:THR:HG23	1:Q:179:ASP:CB	2.25	0.63
3:R:518:SER:CB	3:R:564:ASN:ND2	2.61	0.63
3:R:735:GLU:O	3:R:736:ASP:C	2.41	0.63
4:S:6:LEU:HD13	4:S:16:VAL:HG21	1.79	0.63
4:S:13:ILE:HD11	4:S:238:PRO:HB2	1.80	0.63
8:W:23:TRP:HA	8:W:23:TRP:CE3	2.32	0.63
1:A:219:ILE:HD13	1:A:219:ILE:N	2.12	0.63
1:A:656:ASP:HA	1:A:659:LYS:HD2	1.80	0.63
1:A:763:THR:C	1:A:764:ARG:HG2	2.21	0.63
1:A:833:GLU:HG3	1:A:839:ARG:HG3	1.80	0.63
2:C:297:ILE:HG22	2:C:313:ILE:HD13	1.79	0.63
2:C:369:VAL:O	2:C:373:ILE:HB	1.98	0.63
2:C:379:ILE:HD13	2:C:379:ILE:H	1.63	0.63
3:B:63:ILE:HG13	3:B:98:LEU:HD23	1.79	0.63
3:B:518:SER:CB	3:B:564:ASN:ND2	2.61	0.63
3:B:727:MET:CE	3:B:898:PRO:HG3	2.29	0.63
9:L:35:ILE:HD11	9:L:75:ASN:ND2	2.13	0.63
2:G:122:MET:HB2	2:G:253:THR:OG1	1.97	0.63
2:G:126:LEU:HD11	2:G:249:TYR:HB2	1.79	0.63
3:R:210:PHE:CZ	3:R:323:ILE:HG22	2.32	0.63
3:R:358:PHE:O	3:R:362:VAL:HG23	1.98	0.63
3:R:402:ASN:HB2	3:R:410:VAL:HB	1.81	0.63
3:R:448:THR:C	3:R:450:TRP:H	2.06	0.63
3:R:893:PRO:HG2	3:R:896:ASP:OD1	1.98	0.63
4:S:77:ARG:N	4:S:91:LYS:O	2.28	0.63
4:S:124:ILE:O	4:S:125:SER:HB2	1.97	0.63
1:A:6:ILE:HD11	3:B:1091:VAL:HG11	1.79	0.63
1:A:238:LYS:HD3	1:A:276:TYR:HA	1.80	0.63
2:C:52:PHE:HA	2:C:55:ALA:HB3	1.81	0.63
3:B:702:LEU:HB2	3:B:721:ASN:CG	2.22	0.63
3:B:745:VAL:HG13	3:B:872:PRO:HG2	1.81	0.63
4:D:48:GLU:OE2	4:D:138:LYS:HD3	1.98	0.63
1:Q:68:CYS:SG	1:Q:71:HIS:NE2	2.71	0.63
1:Q:339:VAL:CG2	1:Q:435:VAL:HG23	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:417:VAL:HG11	1:Q:464:LEU:CD1	2.27	0.63
1:Q:448:LEU:O	1:Q:451:PRO:HD2	1.98	0.63
1:Q:866:VAL:HG12	1:Q:869:ASN:N	2.02	0.63
3:R:403:TRP:CG	3:R:404:VAL:N	2.65	0.63
3:R:680:TYR:HE1	3:R:687:ARG:HH12	1.46	0.63
3:R:705:THR:HG22	3:R:706:ARG:N	2.05	0.63
3:R:890:MET:HE1	9:X:49:LEU:HD21	1.80	0.63
4:S:48:GLU:OE2	4:S:138:LYS:HD3	1.98	0.63
1:A:476:ALA:HB2	3:B:1044:LEU:HD13	1.80	0.63
1:A:489:PRO:HB3	1:A:858:MET:HG3	1.81	0.63
1:A:687:ILE:HG13	1:A:695:SER:HB3	1.81	0.63
2:C:274:THR:CG2	2:C:275:ASN:H	1.94	0.63
3:B:81:SER:O	3:B:84:GLU:HB2	1.99	0.63
3:B:253:PHE:N	3:B:254:PRO:HD2	2.12	0.63
3:B:325:LEU:HD13	3:B:330:ARG:HB2	1.80	0.63
3:B:699:GLN:HG3	3:B:720:ASN:ND2	2.13	0.63
3:B:735:GLU:O	3:B:736:ASP:C	2.41	0.63
3:B:850:VAL:HG13	3:B:864:VAL:HG22	1.80	0.63
3:B:910:LEU:HD23	3:B:911:ASN:H	1.62	0.63
5:E:17:GLU:HG2	5:E:20:LYS:HZ2	1.63	0.63
8:K:90:LEU:HD23	8:K:90:LEU:H	1.64	0.63
11:P:17:GLN:C	11:P:19:LYS:H	2.05	0.63
1:Q:506:ALA:HA	1:Q:635:PHE:HE2	1.63	0.63
1:Q:704:LEU:HD13	1:Q:781:PHE:CD1	2.27	0.63
2:G:115:LYS:HE2	2:G:279:GLU:HB2	1.79	0.63
2:G:354:LEU:O	3:R:1109:ILE:HD12	1.99	0.63
2:G:370:VAL:O	2:G:373:ILE:HG22	1.98	0.63
3:R:43:ILE:O	3:R:43:ILE:HG22	1.97	0.63
3:R:63:ILE:HG13	3:R:98:LEU:HD23	1.80	0.63
3:R:81:SER:O	3:R:84:GLU:HB2	1.97	0.63
3:R:214:PHE:CD1	3:R:215:PRO:HD2	2.34	0.63
3:R:495:VAL:O	3:R:528:GLY:HA3	1.98	0.63
1:A:354:THR:HB	1:A:355:PRO:CD	2.27	0.63
1:A:827:LEU:CD2	2:C:316:ILE:HD13	2.28	0.63
1:Q:258:PRO:C	1:Q:260:LEU:H	2.06	0.63
1:Q:308:ARG:HH22	3:R:1012:LEU:HD11	1.62	0.63
1:Q:728:MET:HE3	3:R:913:HIS:HA	1.79	0.63
1:Q:825:ASN:O	1:Q:826:ALA:C	2.41	0.63
2:G:57:LYS:HE3	2:G:57:LYS:CA	2.26	0.63
2:G:111:VAL:HG13	2:G:329:ILE:HD12	1.78	0.63
3:R:416:ARG:HH12	3:R:687:ARG:HH21	1.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:754:PHE:HE2	3:R:756:ARG:HB2	1.64	0.63
3:R:1049:LEU:O	3:R:1049:LEU:HD12	1.97	0.63
5:T:63:ASP:OD2	5:T:65:ALA:HB3	1.98	0.63
8:W:71:ARG:HB3	8:W:73:VAL:CG1	2.29	0.63
1:A:79:ARG:HB2	1:A:266:TRP:HE3	1.60	0.63
1:A:90:ILE:HG23	1:A:184:LEU:HD11	1.81	0.63
1:A:708:ARG:O	1:A:711:ALA:HB3	1.98	0.63
1:A:831:ARG:HH21	2:C:385:MET:CB	2.10	0.63
2:C:355:LEU:HD23	3:B:1109:ILE:HD11	1.80	0.63
3:B:1069:TRP:CZ3	3:B:1077:TYR:HB2	2.34	0.63
1:Q:438:LEU:O	1:Q:438:LEU:HD23	1.98	0.63
1:Q:782:ILE:N	1:Q:782:ILE:HD12	2.14	0.63
2:G:292:ILE:HD13	7:V:16:LEU:HD21	1.78	0.63
3:R:361:PHE:C	3:R:361:PHE:CD2	2.76	0.63
3:R:628:LEU:H	3:R:628:LEU:CD2	2.09	0.63
3:R:794:ASP:OD2	11:Z:18:LEU:HD11	1.98	0.63
8:W:23:TRP:HA	8:W:23:TRP:HE3	1.63	0.63
1:A:328:PRO:HG3	1:A:457:PHE:CD1	2.34	0.63
1:A:431:MET:CE	1:A:482:VAL:HG13	2.29	0.63
1:A:528:ALA:O	1:A:530:VAL:N	2.32	0.63
2:C:106:ARG:HD2	2:C:109:GLU:OE1	1.99	0.63
2:C:310:ILE:HG22	2:C:314:LEU:CD2	2.27	0.63
3:B:159:ARG:HD3	3:B:399:ALA:HA	1.80	0.63
3:B:298:LEU:C	3:B:300:HIS:H	2.06	0.63
3:B:448:THR:C	3:B:450:TRP:H	2.07	0.63
3:B:789:TYR:HB3	3:B:792:LEU:HD12	1.80	0.63
3:B:855:THR:CB	3:B:857:GLU:HG2	2.28	0.63
3:B:1079:CYS:C	3:B:1081:ILE:H	2.04	0.63
7:H:42:LEU:CD1	7:H:80:TYR:HB2	2.29	0.63
8:K:53:ILE:H	8:K:53:ILE:CD1	2.08	0.63
9:L:15:LEU:HB3	9:L:55:VAL:CG2	2.29	0.63
1:Q:58:CYS:SG	1:Q:59:PRO:CD	2.83	0.63
1:Q:245:ILE:HD13	1:Q:268:LEU:CD1	2.28	0.63
1:Q:353:ILE:HD11	1:Q:407:ILE:HG23	1.80	0.63
1:Q:534:LEU:HD13	1:Q:535:GLY:N	2.14	0.63
1:Q:615:LEU:O	1:Q:619:TYR:HB2	1.99	0.63
1:Q:841:LEU:O	1:Q:843:GLY:N	2.32	0.63
2:G:35:LEU:O	2:G:39:LYS:HG3	1.99	0.63
2:G:305:GLY:O	2:G:306:LEU:O	2.17	0.63
3:R:677:LEU:HD12	3:R:992:LYS:CD	2.29	0.63
3:R:727:MET:HB2	3:R:983:ILE:HD12	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:24:PHE:HZ	9:X:80:THR:HA	1.64	0.63
4:S:35:TYR:HE2	9:X:23:THR:HG21	1.63	0.63
6:U:23:ASP:HA	6:U:26:ARG:CD	2.29	0.63
7:V:23:LEU:HB3	7:V:28:ALA:HB2	1.79	0.63
1:A:338:GLY:HA3	1:A:444:ARG:CG	2.24	0.63
1:A:402:ALA:O	1:A:404:GLY:N	2.31	0.63
1:A:448:LEU:O	1:A:451:PRO:HD2	1.99	0.63
3:B:59:ARG:HH12	3:B:107:ILE:CD1	2.11	0.63
3:B:70:VAL:HG13	3:B:80:ILE:HD13	1.79	0.63
3:B:280:GLN:O	3:B:285:ARG:NH1	2.32	0.63
3:B:419:TRP:HZ3	3:B:712:GLY:HA3	1.64	0.63
1:Q:180:ILE:O	1:Q:183:ARG:HB2	1.98	0.63
1:Q:386:ILE:O	1:Q:387:ASP:O	2.16	0.63
1:Q:589:LYS:HD3	1:Q:877:GLY:O	1.98	0.63
1:Q:834:TYR:CE1	8:W:80:ARG:HD3	2.34	0.63
2:G:126:LEU:HD12	2:G:131:LYS:HG3	1.81	0.63
2:G:356:ASP:O	2:G:360:ARG:HB2	1.99	0.63
3:R:28:LEU:HG	3:R:122:MET:CE	2.27	0.63
3:R:59:ARG:HH12	3:R:107:ILE:HD12	1.64	0.63
3:R:108:GLU:O	3:R:110:GLU:N	2.31	0.63
3:R:148:PRO:HG3	3:R:422:MET:SD	2.39	0.63
3:R:691:ARG:NH1	3:R:756:ARG:NH2	2.47	0.63
3:R:701:PRO:HG3	3:R:708:LEU:HD11	1.79	0.63
3:R:881:ARG:HH11	3:R:989:TYR:CB	2.12	0.63
4:S:97:TYR:C	4:S:98:ILE:HD12	2.22	0.63
6:U:79:THR:HG22	6:U:80:SER:N	2.13	0.63
1:A:4:LYS:HB2	3:B:1089:PHE:HB3	1.81	0.63
1:A:573:ARG:HH21	1:A:721:PRO:HB3	1.64	0.63
1:A:782:ILE:N	1:A:782:ILE:HD12	2.14	0.63
2:C:132:ARG:HA	2:C:249:TYR:CD1	2.34	0.63
3:B:316:ALA:C	3:B:318:ALA:H	2.07	0.63
3:B:591:ILE:HG21	3:B:607:LEU:HD21	1.81	0.63
3:B:764:LYS:HD2	3:B:771:ASP:HB2	1.81	0.63
3:B:946:TYR:CD1	3:B:949:PRO:HA	2.34	0.63
3:B:1085:LYS:O	3:B:1086:SER:OG	2.17	0.63
10:N:55:ILE:O	10:N:59:VAL:HG23	1.99	0.63
1:Q:258:PRO:O	1:Q:260:LEU:N	2.32	0.63
1:Q:337:VAL:HG23	1:Q:433:HIS:HB3	1.81	0.63
2:G:126:LEU:HB2	2:G:131:LYS:HG3	1.79	0.63
8:W:12:ASP:O	8:W:13:LEU:HB2	1.98	0.63
10:Y:6:ARG:HA	10:Y:12:SER:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Z:17:GLN:C	11:Z:19:LYS:H	2.06	0.63
1:A:25:THR:HG22	1:A:27:ILE:H	1.63	0.62
1:A:369:PRO:HA	1:A:410:HIS:HE1	1.64	0.62
1:A:877:GLY:C	3:R:377:ARG:HH12	2.07	0.62
3:B:148:PRO:HG3	3:B:422:MET:SD	2.39	0.62
3:B:161:ILE:HG21	3:B:346:ALA:HA	1.80	0.62
3:B:812:GLY:HA2	3:B:836:SER:HB3	1.79	0.62
3:B:1099:LEU:HB3	3:B:1103:GLU:OE1	1.98	0.62
5:E:127:ILE:HB	5:E:136:ILE:HG13	1.80	0.62
6:F:23:ASP:HA	6:F:26:ARG:CD	2.29	0.62
1:Q:177:PRO:HG2	1:Q:270:GLN:NE2	2.13	0.62
1:Q:827:LEU:CD2	2:G:316:ILE:HD13	2.29	0.62
2:G:52:PHE:O	2:G:55:ALA:HB3	1.98	0.62
3:R:245:ASP:N	3:R:246:PRO:HD3	2.13	0.62
3:R:537:ALA:HB2	3:R:557:HIS:CD2	2.34	0.62
3:R:557:HIS:ND1	3:R:566:VAL:HG22	2.14	0.62
3:R:723:ILE:HD12	10:Y:43:TYR:HE1	1.63	0.62
3:R:789:TYR:HB3	3:R:792:LEU:HD12	1.81	0.62
3:R:803:GLU:HG2	3:R:846:ILE:CG1	2.29	0.62
3:R:838:VAL:HG12	3:R:839:THR:N	2.13	0.62
3:R:910:LEU:HD23	3:R:911:ASN:H	1.64	0.62
3:R:1058:ILE:O	3:R:1091:VAL:HG12	1.99	0.62
4:S:191:LYS:CB	4:S:194:LYS:HD2	2.25	0.62
1:A:55:GLY:O	1:A:57:LYS:N	2.32	0.62
1:A:704:LEU:HD22	1:A:781:PHE:HE1	1.60	0.62
3:B:242:VAL:CA	3:B:316:ALA:HB1	2.24	0.62
3:B:850:VAL:O	11:P:35:PHE:HB2	1.99	0.62
8:K:82:LEU:HD23	8:K:82:LEU:H	1.64	0.62
1:Q:71:HIS:HB3	3:R:1070:TYR:OH	1.98	0.62
1:Q:219:ILE:HD13	1:Q:219:ILE:N	2.13	0.62
1:Q:573:ARG:HH21	1:Q:721:PRO:HB3	1.63	0.62
2:G:112:ASP:O	2:G:113:ALA:HB3	1.99	0.62
2:G:391:ARG:HH21	8:W:42:GLN:CG	2.11	0.62
3:R:321:LYS:HD2	3:R:330:ARG:HE	1.63	0.62
3:R:638:THR:HB	3:R:639:HIS:CD2	2.34	0.62
3:R:1069:TRP:HE1	3:R:1088:LEU:HB3	1.64	0.62
4:S:217:ILE:HD12	4:S:217:ILE:N	2.13	0.62
1:A:775:SER:HB3	1:A:777:GLU:HG2	1.81	0.62
2:C:47:GLU:HA	2:C:50:LYS:HD2	1.79	0.62
2:C:112:ASP:O	2:C:113:ALA:HB3	2.00	0.62
2:C:301:LEU:HA	2:C:304:GLN:HG3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:5:LEU:O	3:B:5:LEU:HD22	1.99	0.62
3:B:17:TYR:OH	3:B:474:ALA:HA	1.99	0.62
3:B:373:LYS:HE3	3:B:375:ARG:CD	2.28	0.62
3:B:677:LEU:HD12	3:B:992:LYS:CD	2.28	0.62
3:B:795:ASN:ND2	11:P:36:MET:HE2	2.12	0.62
4:D:69:SER:HA	4:D:72:ALA:HB3	1.80	0.62
5:E:171:LYS:HE2	5:E:173:GLU:HB2	1.79	0.62
10:N:42:ARG:O	10:N:46:ARG:HB2	2.00	0.62
1:Q:337:VAL:HG23	1:Q:433:HIS:CB	2.29	0.62
1:Q:418:LEU:HD11	3:R:1044:LEU:HD11	1.80	0.62
2:G:277:ILE:C	2:G:279:GLU:N	2.55	0.62
2:G:310:ILE:HG22	2:G:314:LEU:HD23	1.81	0.62
2:G:389:THR:HG21	8:W:79:ARG:NH1	2.13	0.62
4:S:236:LEU:HB2	4:S:241:ILE:HD11	1.80	0.62
5:T:6:LYS:HE3	6:U:8:GLU:HB2	1.79	0.62
1:A:15:SER:O	1:A:19:ILE:HG13	1.99	0.62
1:A:764:ARG:HH11	1:A:764:ARG:CB	2.12	0.62
2:C:126:LEU:HB2	2:C:131:LYS:HG3	1.80	0.62
2:C:126:LEU:HD12	2:C:131:LYS:HG3	1.80	0.62
2:C:292:ILE:HG23	2:C:293:ILE:N	2.14	0.62
3:B:476:ILE:HD13	3:B:476:ILE:N	2.15	0.62
3:B:887:VAL:CG1	3:B:888:ILE:N	2.61	0.62
10:N:42:ARG:HG3	10:N:43:TYR:N	2.12	0.62
1:Q:312:ASN:HB3	3:R:1015:GLN:OE1	1.98	0.62
1:Q:648:LEU:O	1:Q:651:VAL:HG12	1.98	0.62
1:Q:741:THR:O	1:Q:743:MET:N	2.33	0.62
1:Q:764:ARG:O	1:Q:766:LEU:N	2.32	0.62
2:G:80:GLU:HB3	2:G:81:PRO:CD	2.28	0.62
3:R:473:MET:SD	3:R:475:GLN:N	2.72	0.62
3:R:658:PRO:C	3:R:660:HIS:H	2.07	0.62
3:R:904:VAL:HG21	10:Y:42:ARG:HG2	1.81	0.62
3:R:1046:LYS:C	3:R:1048:ARG:H	2.08	0.62
5:T:103:PRO:HB3	6:U:37:THR:OG1	1.98	0.62
7:V:24:ASN:HB2	7:V:27:GLU:OE2	1.99	0.62
1:A:696:LEU:O	1:A:700:ILE:HG12	2.00	0.62
3:B:116:ILE:HG23	3:B:361:PHE:CZ	2.34	0.62
3:B:230:LEU:HD13	3:B:312:ALA:CB	2.30	0.62
3:B:300:HIS:O	3:B:301:LEU:C	2.42	0.62
3:B:325:LEU:HD12	3:B:328:GLY:HA2	1.81	0.62
4:D:101:GLU:HG2	4:D:102:ALA:H	1.64	0.62
6:F:79:THR:HG22	6:F:80:SER:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:18:PRO:HB2	7:H:67:ARG:HA	1.81	0.62
8:K:26:ARG:HB3	8:K:27:LEU:HD12	1.80	0.62
1:Q:319:ASP:O	1:Q:320:PHE:HB2	1.99	0.62
1:Q:644:PHE:HA	1:Q:724:PHE:CE2	2.34	0.62
1:Q:646:MET:HE2	1:Q:725:ALA:HB2	1.81	0.62
1:Q:746:MET:H	1:Q:785:SER:HB3	1.65	0.62
1:Q:764:ARG:HH11	1:Q:764:ARG:CB	2.11	0.62
2:G:107:LEU:O	2:G:110:ILE:HG22	1.99	0.62
3:R:59:ARG:HH12	3:R:107:ILE:CD1	2.13	0.62
3:R:248:VAL:HG21	3:R:329:ARG:NH2	2.15	0.62
3:R:1077:TYR:O	3:R:1077:TYR:HD1	1.82	0.62
4:S:69:SER:HA	4:S:72:ALA:HB3	1.81	0.62
4:S:235:SER:O	4:S:236:LEU:HD12	1.98	0.62
10:Y:62:TYR:O	10:Y:63:THR:OG1	2.15	0.62
1:A:220:ARG:HA	1:A:233:ASP:OD1	2.00	0.62
1:A:446:ASN:O	1:A:448:LEU:N	2.32	0.62
1:A:561:ASN:ND2	1:A:590:ASN:H	1.98	0.62
1:A:739:ASN:O	3:B:919:MET:HE3	1.99	0.62
2:C:28:ILE:HD13	8:K:14:HIS:CG	2.34	0.62
3:B:536:LEU:HD13	3:B:537:ALA:N	2.14	0.62
4:D:148:GLY:HA3	4:D:156:PHE:CE1	2.34	0.62
9:L:18:GLU:HG3	9:L:52:LYS:HG2	1.82	0.62
2:G:68:GLU:HB3	8:W:30:TYR:CZ	2.34	0.62
2:G:115:LYS:HB2	2:G:278:ARG:CG	2.29	0.62
3:R:230:LEU:HD13	3:R:312:ALA:CB	2.30	0.62
3:R:248:VAL:O	3:R:251:GLU:HB2	1.99	0.62
3:R:602:ILE:CG2	3:R:603:THR:N	2.62	0.62
3:R:1071:ASP:C	3:R:1073:ASN:H	2.06	0.62
4:S:206:CYS:O	4:S:207:GLU:HB2	1.98	0.62
1:A:350:PRO:HD3	1:A:468:GLN:NE2	2.15	0.62
1:A:612:LEU:HA	1:A:615:LEU:HD12	1.81	0.62
1:A:837:THR:HG22	1:A:838:VAL:N	2.13	0.62
2:C:31:ASP:C	2:C:31:ASP:OD1	2.42	0.62
3:B:361:PHE:C	3:B:361:PHE:CD2	2.77	0.62
3:B:518:SER:HB3	3:B:564:ASN:HD21	1.64	0.62
3:B:537:ALA:HB2	3:B:557:HIS:CD2	2.34	0.62
3:B:800:PRO:HG2	11:P:37:VAL:C	2.24	0.62
4:D:22:LEU:C	4:D:24:PHE:H	2.07	0.62
4:D:105:GLU:N	4:D:135:THR:HG22	2.15	0.62
8:K:12:ASP:O	8:K:13:LEU:HB2	1.97	0.62
2:G:115:LYS:HD3	2:G:278:ARG:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:131:LYS:HB3	2:G:248:GLU:HG2	1.81	0.62
2:G:368:GLY:HA3	2:G:371:GLU:OE1	1.99	0.62
3:R:1051:ASP:O	3:R:1055:ARG:HD2	2.00	0.62
3:R:1060:VAL:C	3:R:1088:LEU:HD23	2.25	0.62
5:T:36:GLU:OE2	6:U:34:LEU:HD11	1.98	0.62
7:V:62:ILE:HD13	7:V:62:ILE:N	2.14	0.62
1:A:13:ILE:HD11	1:A:86:LEU:HD13	1.82	0.62
1:A:23:SER:OG	1:A:73:GLY:HA2	2.00	0.62
1:A:258:PRO:O	1:A:260:LEU:N	2.33	0.62
1:A:284:LEU:N	1:A:285:PRO:HD2	2.13	0.62
1:A:825:ASN:O	1:A:826:ALA:C	2.43	0.62
3:B:319:ILE:O	3:B:323:ILE:HG12	2.00	0.62
8:K:53:ILE:HD12	8:K:53:ILE:N	2.12	0.62
8:K:91:SER:O	8:K:92:LEU:CB	2.48	0.62
10:N:64:ARG:HD3	10:N:64:ARG:N	2.13	0.62
1:Q:175:LEU:CD2	1:Q:176:THR:H	2.06	0.62
1:Q:220:ARG:HA	1:Q:233:ASP:OD1	2.00	0.62
1:Q:418:LEU:HD21	3:R:1044:LEU:CD2	2.22	0.62
1:Q:672:VAL:HG13	1:Q:700:ILE:CD1	2.28	0.62
1:Q:856:PHE:CD1	1:Q:858:MET:HB2	2.35	0.62
2:G:106:ARG:HD2	2:G:109:GLU:OE1	2.00	0.62
3:R:70:VAL:HG11	3:R:80:ILE:HG21	1.81	0.62
3:R:158:GLU:OE2	3:R:416:ARG:NH1	2.32	0.62
3:R:282:ARG:HA	3:R:285:ARG:HD2	1.82	0.62
3:R:651:THR:HG22	3:R:670:SER:HA	1.82	0.62
3:R:702:LEU:HB2	3:R:721:ASN:ND2	2.15	0.62
3:R:853:THR:HG22	3:R:854:GLU:N	2.04	0.62
3:R:899:TYR:CE1	3:R:971:TYR:HB2	2.35	0.62
7:V:25:ILE:H	7:V:25:ILE:HD12	1.63	0.62
10:Y:24:ARG:HD2	10:Y:34:VAL:HG13	1.82	0.62
1:A:645:THR:OG1	1:A:646:MET:N	2.33	0.62
2:C:15:GLU:HA	2:C:18:LYS:CD	2.30	0.62
3:B:83:MET:HE1	3:B:686:LEU:HB2	1.80	0.62
3:B:353:LEU:HA	3:B:404:VAL:HG11	1.81	0.62
3:B:469:ASN:HD22	3:B:469:ASN:N	1.98	0.62
3:B:517:TRP:HD1	3:B:531:GLN:N	1.94	0.62
3:B:651:THR:HG22	3:B:670:SER:HA	1.82	0.62
4:D:124:ILE:O	4:D:125:SER:HB2	1.99	0.62
4:D:173:LEU:O	4:D:174:ALA:HB2	2.00	0.62
8:K:55:ASN:O	8:K:56:LEU:HB3	1.99	0.62
9:L:46:PRO:HD2	9:L:52:LYS:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:25:THR:HG22	1:Q:27:ILE:H	1.64	0.62
1:Q:317:ARG:NH1	3:R:1018:GLU:HG3	2.15	0.62
1:Q:488:THR:HG22	1:Q:490:ARG:H	1.64	0.62
1:Q:608:PRO:O	1:Q:609:GLU:HG2	1.99	0.62
2:G:339:ASN:OD1	2:G:344:ARG:HD2	2.00	0.62
3:R:243:SER:HB2	3:R:246:PRO:HG3	1.82	0.62
3:R:343:LEU:HD12	3:R:343:LEU:N	2.14	0.62
3:R:403:TRP:C	3:R:404:VAL:CG2	2.73	0.62
1:A:15:SER:HB2	1:A:16:PRO:HD2	1.80	0.62
1:A:650:ASP:HB3	1:A:723:ASN:HD21	1.65	0.62
3:B:688:THR:OG1	3:B:863:LYS:HD3	2.00	0.62
5:E:50:ASN:O	5:E:72:PHE:HA	1.99	0.62
8:K:21:SER:O	8:K:24:GLN:HG3	2.00	0.62
3:R:419:TRP:CZ3	3:R:712:GLY:HA3	2.34	0.62
4:S:176:CYS:N	4:S:195:LEU:HD21	2.15	0.62
9:X:46:PRO:HD2	9:X:52:LYS:O	2.00	0.62
11:Z:18:LEU:C	11:Z:20:VAL:H	2.08	0.62
2:C:145:GLU:HG2	2:C:239:ARG:HA	1.82	0.61
2:C:311:ARG:HD3	2:C:311:ARG:H	1.63	0.61
3:B:555:VAL:HA	3:B:567:HIS:O	2.00	0.61
3:B:600:GLY:C	3:B:602:ILE:N	2.58	0.61
4:D:250:ILE:HD11	9:L:84:ILE:HD11	1.82	0.61
5:E:26:ALA:O	5:E:30:LEU:HB2	2.00	0.61
7:H:55:ILE:HG23	7:H:55:ILE:O	2.00	0.61
1:Q:299:ALA:HB1	2:G:351:VAL:HG11	1.81	0.61
1:Q:867:ASP:OD1	2:G:32:LEU:HB3	2.00	0.61
3:R:83:MET:HE1	3:R:686:LEU:HB2	1.81	0.61
3:R:741:ASN:OD1	3:R:743:SER:N	2.33	0.61
3:R:764:LYS:HD2	3:R:771:ASP:HB2	1.82	0.61
3:R:773:ILE:HG12	3:R:813:LYS:CG	2.30	0.61
3:R:873:THR:HG22	3:R:874:ILE:H	1.64	0.61
4:S:191:LYS:H	4:S:194:LYS:HB2	1.65	0.61
1:A:180:ILE:O	1:A:183:ARG:HB2	1.99	0.61
1:A:378:VAL:HG12	1:A:388:LEU:HD12	1.82	0.61
1:A:500:GLN:HB2	3:B:913:HIS:CG	2.34	0.61
1:A:821:ARG:HG2	1:A:821:ARG:HH11	1.64	0.61
2:C:389:THR:CG2	8:K:77:THR:HB	2.29	0.61
3:B:587:PRO:C	3:B:588:LEU:HG	2.25	0.61
3:B:638:THR:HB	3:B:639:HIS:CD2	2.34	0.61
3:B:1033:ARG:HH11	3:B:1033:ARG:CG	2.10	0.61
3:B:1046:LYS:C	3:B:1048:ARG:H	2.08	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:1077:TYR:O	3:B:1077:TYR:HD1	1.82	0.61
5:E:97:ILE:HD12	5:E:113:ILE:HD11	1.81	0.61
1:Q:471:GLU:OE1	8:W:41:LEU:HD13	2.01	0.61
1:Q:741:THR:O	1:Q:742:GLN:C	2.43	0.61
2:G:393:ILE:HG21	2:G:395:ARG:NH2	2.12	0.61
3:R:12:ARG:HH11	3:R:596:LYS:HG2	1.65	0.61
3:R:339:ALA:HB2	3:R:618:ALA:CB	2.28	0.61
3:R:1004:ARG:NH1	3:R:1024:GLY:HA2	2.16	0.61
1:A:206:TRP:CH2	1:A:209:LEU:HD23	2.35	0.61
1:A:763:THR:HG21	1:A:772:TYR:CD2	2.35	0.61
2:C:12:TYR:O	2:C:13:LEU:HD23	2.00	0.61
2:C:310:ILE:HG22	2:C:314:LEU:HD23	1.82	0.61
2:C:390:MET:C	2:C:391:ARG:HD3	2.24	0.61
3:B:702:LEU:HD13	10:N:47:ARG:CD	2.30	0.61
3:B:911:ASN:HD22	3:B:913:HIS:HB2	1.63	0.61
4:D:51:SER:HA	4:D:137:GLN:NE2	2.14	0.61
1:Q:276:TYR:HD2	1:Q:277:PHE:HE1	1.44	0.61
1:Q:525:LEU:HD11	1:Q:530:VAL:HG11	1.81	0.61
1:Q:807:VAL:HG13	3:R:443:ARG:NH1	2.15	0.61
1:Q:823:LEU:HB3	2:G:329:ILE:HD13	1.82	0.61
2:G:383:THR:CG2	3:R:1042:ALA:H	2.13	0.61
3:R:63:ILE:HG13	3:R:98:LEU:CB	2.31	0.61
3:R:70:VAL:HG11	3:R:90:LEU:HD23	1.82	0.61
3:R:325:LEU:HD13	3:R:330:ARG:HB2	1.81	0.61
3:R:476:ILE:HD13	3:R:476:ILE:N	2.14	0.61
3:R:536:LEU:HD13	3:R:537:ALA:N	2.15	0.61
3:R:895:VAL:HG11	4:S:34:LEU:HD21	1.82	0.61
5:T:17:GLU:HB3	5:T:20:LYS:HD2	1.82	0.61
8:W:50:LEU:O	8:W:52:ASP:HB2	2.00	0.61
1:A:377:TYR:HE1	1:A:385:ARG:HG2	1.65	0.61
1:A:620:SER:C	1:A:622:GLU:H	2.08	0.61
1:A:739:ASN:HB2	3:B:919:MET:SD	2.40	0.61
1:A:787:ARG:NH2	1:A:788:THR:HA	2.16	0.61
2:C:24:LEU:HD21	2:C:58:GLU:HB3	1.82	0.61
2:C:115:LYS:C	2:C:116:VAL:HG22	2.24	0.61
2:C:390:MET:HE2	5:E:66:THR:HG23	1.82	0.61
3:B:402:ASN:HB2	3:B:410:VAL:HB	1.82	0.61
3:B:533:GLY:O	3:B:535:GLU:N	2.33	0.61
7:H:23:LEU:HB2	7:H:62:ILE:O	2.00	0.61
1:Q:326:ILE:HG13	1:Q:326:ILE:O	2.00	0.61
1:Q:807:VAL:HG21	3:R:443:ARG:CD	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:81:SER:OG	3:R:141:ILE:HG23	2.00	0.61
3:R:319:ILE:O	3:R:323:ILE:HG12	2.00	0.61
3:R:887:VAL:CG1	3:R:888:ILE:N	2.63	0.61
1:A:425:LEU:O	1:A:426:HIS:HB2	1.99	0.61
1:A:522:GLN:OE1	9:L:40:PHE:HA	2.01	0.61
3:B:96:LEU:O	3:B:115:TYR:HA	2.00	0.61
3:B:687:ARG:HH11	3:B:687:ARG:CG	2.12	0.61
4:D:183:CYS:SG	14:D:1001:F3S:S4	2.98	0.61
4:D:194:LYS:C	4:D:196:SER:H	2.08	0.61
7:H:24:ASN:HB2	7:H:27:GLU:OE2	2.00	0.61
1:Q:837:THR:HG22	1:Q:838:VAL:H	1.65	0.61
2:G:52:PHE:O	2:G:56:ILE:N	2.27	0.61
2:G:132:ARG:HA	2:G:249:TYR:CD1	2.35	0.61
3:R:298:LEU:C	3:R:300:HIS:H	2.08	0.61
3:R:930:GLY:HA3	3:R:987:VAL:HB	1.82	0.61
4:S:259:LYS:O	4:S:263:VAL:HG23	2.00	0.61
7:V:15:TYR:HD2	7:V:16:LEU:CD1	2.13	0.61
1:A:77:LEU:HD13	1:A:81:VAL:HG22	1.81	0.61
1:A:175:LEU:CD2	1:A:176:THR:H	2.08	0.61
1:A:308:ARG:O	1:A:313:LEU:HB2	2.01	0.61
3:B:12:ARG:HH11	3:B:596:LYS:HG2	1.65	0.61
3:B:595:GLU:HA	3:B:599:SER:HB3	1.82	0.61
5:E:82:GLN:HA	5:E:145:ARG:CG	2.31	0.61
6:F:88:VAL:HG12	6:F:89:MET:H	1.65	0.61
8:K:43:LEU:CD1	8:K:64:ILE:HG13	2.31	0.61
8:K:71:ARG:HB3	8:K:73:VAL:CG1	2.30	0.61
1:Q:656:ASP:HA	1:Q:659:LYS:HD2	1.81	0.61
1:Q:687:ILE:HG13	1:Q:695:SER:HB3	1.82	0.61
1:Q:723:ASN:HD22	1:Q:724:PHE:N	1.97	0.61
1:Q:821:ARG:HG2	1:Q:821:ARG:HH11	1.65	0.61
2:G:52:PHE:HA	2:G:55:ALA:HB3	1.81	0.61
3:R:63:ILE:CD1	3:R:98:LEU:HD23	2.31	0.61
3:R:479:GLY:HA2	3:R:552:GLU:CB	2.21	0.61
3:R:560:THR:HG22	3:R:561:ASP:N	2.13	0.61
3:R:867:ARG:NH2	4:S:54:TYR:CE2	2.68	0.61
3:R:890:MET:HA	3:R:890:MET:HE3	1.82	0.61
3:R:1012:LEU:O	3:R:1095:TYR:HE2	1.83	0.61
4:S:173:LEU:O	4:S:174:ALA:HB2	2.00	0.61
7:V:23:LEU:HB2	7:V:62:ILE:O	2.01	0.61
1:A:775:SER:CB	1:A:777:GLU:HG2	2.31	0.61
2:C:54:LEU:O	2:C:58:GLU:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:109:GLU:O	2:C:113:ALA:HA	2.00	0.61
3:B:270:ASP:C	3:B:272:ILE:H	2.09	0.61
3:B:803:GLU:HG2	3:B:846:ILE:CG1	2.31	0.61
3:B:1061:CYS:HB3	3:B:1065:GLY:N	2.16	0.61
3:B:1071:ASP:C	3:B:1073:ASN:H	2.08	0.61
4:D:6:LEU:HD13	4:D:16:VAL:CG2	2.30	0.61
4:D:257:GLU:O	4:D:260:LEU:HB3	2.00	0.61
7:H:15:TYR:HD2	7:H:16:LEU:CD1	2.14	0.61
1:Q:500:GLN:HB2	3:R:913:HIS:CG	2.35	0.61
1:Q:853:ASP:OD2	2:G:311:ARG:NH2	2.34	0.61
3:R:6:THR:HB	3:R:9:GLU:CB	2.30	0.61
3:R:145:PRO:C	3:R:147:ASP:H	2.09	0.61
3:R:414:LEU:HA	3:R:425:HIS:HD2	1.65	0.61
3:R:690:THR:HG22	3:R:691:ARG:CG	2.31	0.61
3:R:881:ARG:HH11	3:R:989:TYR:HB3	1.64	0.61
3:R:911:ASN:HD22	3:R:913:HIS:HB2	1.65	0.61
4:S:101:GLU:HG2	4:S:102:ALA:H	1.65	0.61
7:V:55:ILE:HG23	7:V:55:ILE:O	1.99	0.61
10:Y:64:ARG:HD3	10:Y:64:ARG:N	2.14	0.61
1:A:355:PRO:HG2	1:A:356:TRP:CE2	2.35	0.61
3:B:921:LEU:C	3:B:923:GLN:H	2.08	0.61
3:B:972:ASP:OD2	3:B:974:ARG:HG2	2.00	0.61
3:B:1070:TYR:O	3:B:1071:ASP:O	2.18	0.61
4:D:235:SER:C	4:D:236:LEU:HD12	2.25	0.61
5:E:30:LEU:HD11	5:E:72:PHE:CD2	2.36	0.61
1:Q:789:GLY:HA2	3:R:659:GLU:O	2.00	0.61
2:G:47:GLU:HA	2:G:50:LYS:HD2	1.81	0.61
2:G:63:LEU:C	2:G:64:ILE:HD12	2.25	0.61
3:R:497:VAL:CG1	3:R:498:GLU:N	2.63	0.61
3:R:533:GLY:O	3:R:535:GLU:N	2.33	0.61
8:W:55:ASN:O	8:W:56:LEU:HB3	2.00	0.61
10:Y:1:MET:HE2	10:Y:56:ILE:CD1	2.31	0.61
1:A:79:ARG:HB2	1:A:266:TRP:CZ3	2.36	0.61
1:A:215:PRO:HB3	3:B:1106:SER:HB3	1.83	0.61
1:A:238:LYS:NZ	1:A:275:THR:O	2.34	0.61
3:B:59:ARG:HH22	3:B:107:ILE:CD1	2.13	0.61
3:B:171:ARG:HD2	3:B:342:ARG:NH2	2.15	0.61
5:E:100:ASN:ND2	6:F:36:ARG:HD3	2.16	0.61
1:Q:262:ILE:CG1	1:Q:266:TRP:HE1	2.13	0.61
1:Q:427:ARG:N	2:G:76:GLN:HE22	1.98	0.61
1:Q:488:THR:OG1	1:Q:495:ILE:HB	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:24:LEU:HD21	2:G:58:GLU:HB3	1.82	0.61
2:G:274:THR:CG2	2:G:275:ASN:H	1.91	0.61
3:R:67:LYS:HB3	3:R:68:PRO:HD2	1.83	0.61
3:R:247:GLU:C	3:R:249:GLN:N	2.58	0.61
3:R:1004:ARG:HH11	3:R:1025:GLY:N	1.94	0.61
4:S:115:LYS:O	4:S:116:SER:HB3	2.00	0.61
4:S:235:SER:C	4:S:236:LEU:HD12	2.26	0.61
5:T:145:ARG:O	5:T:163:THR:HG22	2.00	0.61
5:T:171:LYS:HE2	5:T:173:GLU:HB2	1.81	0.61
1:A:470:GLU:HB2	8:K:41:LEU:HD12	1.82	0.61
1:A:878:TRP:HZ3	2:C:50:LYS:HE2	1.65	0.61
2:C:131:LYS:HB3	2:C:248:GLU:HG2	1.83	0.61
3:B:276:VAL:HG12	3:B:277:ALA:N	2.13	0.61
3:B:414:LEU:HA	3:B:425:HIS:HD2	1.65	0.61
3:B:838:VAL:HG12	3:B:839:THR:N	2.14	0.61
3:B:1069:TRP:HE1	3:B:1088:LEU:HB3	1.64	0.61
3:B:1069:TRP:HD1	3:B:1088:LEU:HD22	1.64	0.61
4:D:24:PHE:HZ	9:L:80:THR:HA	1.66	0.61
5:E:17:GLU:OE1	5:E:25:ILE:HD12	2.01	0.61
10:N:20:SER:O	10:N:24:ARG:HG3	2.01	0.61
11:P:26:CYS:CB	11:P:27:PRO:HD2	2.28	0.61
1:Q:522:GLN:HE21	9:X:33:ARG:HD3	1.66	0.61
2:G:103:GLY:HA3	2:G:300:VAL:HG13	1.81	0.61
2:G:109:GLU:OE2	2:G:117:PRO:HA	2.01	0.61
3:R:325:LEU:HD12	3:R:328:GLY:HA2	1.82	0.61
3:R:388:ASP:C	3:R:390:VAL:N	2.55	0.61
3:R:555:VAL:HA	3:R:567:HIS:O	2.01	0.61
3:R:640:LEU:HD22	3:R:641:GLU:H	1.64	0.61
3:R:1079:CYS:O	3:R:1081:ILE:N	2.28	0.61
4:S:159:VAL:HG22	4:S:160:SER:N	2.16	0.61
1:A:334:ILE:HG22	1:A:482:VAL:HG11	1.81	0.60
1:A:485:ASN:HD21	3:B:1039:PHE:HE2	1.48	0.60
1:A:672:VAL:O	1:A:673:ASP:C	2.43	0.60
3:B:814:VAL:HG22	3:B:834:ASP:HA	1.83	0.60
3:B:890:MET:HE1	9:L:49:LEU:HD21	1.83	0.60
3:B:922:GLY:O	3:B:926:GLU:HB2	2.01	0.60
4:D:258:LYS:O	4:D:261:VAL:HG22	2.02	0.60
11:P:18:LEU:C	11:P:20:VAL:H	2.09	0.60
3:R:437:GLN:HB3	3:R:438:PRO:CD	2.23	0.60
4:S:39:MET:HE3	4:S:72:ALA:HB1	1.83	0.60
4:S:101:GLU:OE1	4:S:138:LYS:HD2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:10:CYS:HB3	10:Y:44:CYS:SG	2.42	0.60
1:A:249:LEU:HD13	1:A:266:TRP:CZ3	2.36	0.60
1:A:416:ILE:HG12	1:A:477:LYS:HB2	1.83	0.60
1:A:488:THR:CG2	1:A:490:ARG:H	2.14	0.60
1:A:644:PHE:HA	1:A:724:PHE:CE2	2.34	0.60
1:A:764:ARG:O	1:A:766:LEU:N	2.35	0.60
2:C:115:LYS:HD3	2:C:278:ARG:HB3	1.83	0.60
3:B:723:ILE:HB	3:B:907:ASP:OD2	2.02	0.60
3:B:881:ARG:HH11	3:B:989:TYR:CB	2.14	0.60
1:Q:239:LEU:HD12	1:Q:276:TYR:CE1	2.36	0.60
1:Q:708:ARG:O	1:Q:711:ALA:HB3	2.02	0.60
2:G:390:MET:SD	5:T:58:ILE:N	2.74	0.60
3:R:173:LEU:HA	3:R:333:ASP:OD2	2.01	0.60
3:R:463:ASN:HB3	3:R:467:VAL:HG12	1.83	0.60
3:R:922:GLY:O	3:R:926:GLU:N	2.30	0.60
3:R:1043:MET:HE3	5:T:61:PHE:CG	2.35	0.60
9:X:35:ILE:HD11	9:X:75:ASN:ND2	2.15	0.60
1:A:488:THR:OG1	1:A:495:ILE:HB	2.00	0.60
1:A:847:GLN:HG2	2:C:318:ASP:OD1	2.01	0.60
2:C:115:LYS:HB2	2:C:278:ARG:CG	2.31	0.60
2:C:337:GLU:OE2	2:C:339:ASN:ND2	2.34	0.60
2:C:393:ILE:CG2	2:C:395:ARG:HH21	2.11	0.60
3:B:558:ILE:HG12	3:B:567:HIS:CD2	2.36	0.60
4:D:23:GLU:O	9:L:27:LEU:HD13	2.01	0.60
10:N:39:GLY:O	10:N:40:VAL:HG23	2.02	0.60
1:Q:522:GLN:HG2	9:X:40:PHE:CE1	2.36	0.60
3:R:98:LEU:HD11	3:R:100:MET:CG	2.32	0.60
3:R:414:LEU:HA	3:R:425:HIS:CD2	2.36	0.60
3:R:738:ILE:HG23	3:R:888:ILE:HA	1.81	0.60
3:R:800:PRO:HG2	11:Z:37:VAL:C	2.26	0.60
3:R:803:GLU:HG2	3:R:846:ILE:HG13	1.83	0.60
3:R:1069:TRP:CZ3	3:R:1077:TYR:HB2	2.36	0.60
5:T:31:ARG:O	5:T:33:GLN:N	2.33	0.60
2:C:57:LYS:HE3	2:C:57:LYS:CA	2.28	0.60
3:B:247:GLU:C	3:B:249:GLN:N	2.58	0.60
3:B:348:ASP:OD2	3:B:348:ASP:N	2.33	0.60
3:B:473:MET:HE1	3:B:475:GLN:C	2.26	0.60
3:B:800:PRO:HD3	3:B:850:VAL:HG23	1.84	0.60
6:F:72:LEU:C	6:F:74:SER:H	2.07	0.60
10:N:3:ILE:HG12	10:N:18:TRP:CG	2.36	0.60
1:Q:573:ARG:NH2	1:Q:721:PRO:HB3	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:645:THR:OG1	1:Q:646:MET:N	2.29	0.60
3:R:63:ILE:HD11	3:R:98:LEU:HD23	1.82	0.60
3:R:270:ASP:C	3:R:272:ILE:H	2.08	0.60
3:R:316:ALA:C	3:R:318:ALA:H	2.09	0.60
3:R:1066:TYR:HB3	3:R:1105:MET:HE1	1.83	0.60
4:S:50:ASN:HD22	10:Y:64:ARG:HD2	1.66	0.60
4:S:98:ILE:HD11	4:S:114:ILE:CG2	2.27	0.60
4:S:125:SER:C	4:S:127:ASP:H	2.10	0.60
4:S:183:CYS:SG	14:S:1001:F3S:S4	3.00	0.60
6:U:88:VAL:HG12	6:U:89:MET:H	1.67	0.60
7:V:64:ARG:NH2	8:W:12:ASP:OD1	2.35	0.60
2:C:134:ARG:O	2:C:138:LEU:HD12	2.02	0.60
3:B:28:LEU:HG	3:B:122:MET:CE	2.31	0.60
3:B:82:PRO:HG2	3:B:143:GLU:OE1	2.01	0.60
3:B:102:PRO:HG2	3:B:108:GLU:OE2	2.02	0.60
3:B:388:ASP:C	3:B:390:VAL:N	2.55	0.60
3:B:602:ILE:CG2	3:B:603:THR:N	2.64	0.60
3:B:804:VAL:C	3:B:805:LYS:HD2	2.26	0.60
3:B:954:GLN:HA	3:B:957:ILE:CD1	2.27	0.60
9:L:7:LYS:H	9:L:14:GLU:HB3	1.66	0.60
1:Q:690:ARG:HD2	1:Q:694:GLU:OE1	2.01	0.60
1:Q:720:ASP:C	1:Q:722:PHE:H	2.10	0.60
1:Q:732:GLY:O	1:Q:733:ALA:C	2.43	0.60
1:Q:853:ASP:OD1	1:Q:864:LYS:HD3	2.00	0.60
3:R:373:LYS:HG3	3:R:375:ARG:HB2	1.83	0.60
3:R:488:THR:HG21	3:R:549:ILE:HD11	1.83	0.60
3:R:855:THR:CB	3:R:857:GLU:HG2	2.31	0.60
3:R:870:ARG:CZ	3:R:996:MET:SD	2.89	0.60
3:R:971:TYR:CE2	3:R:978:LYS:HB3	2.37	0.60
6:U:87:LEU:HD23	6:U:88:VAL:O	2.01	0.60
1:A:608:PRO:O	1:A:609:GLU:HG2	2.01	0.60
1:A:864:LYS:HE3	2:C:32:LEU:CD1	2.32	0.60
3:B:20:SER:O	3:B:21:LYS:HG2	2.02	0.60
3:B:70:VAL:HG11	3:B:80:ILE:HG21	1.84	0.60
3:B:243:SER:HB2	3:B:246:PRO:HG3	1.82	0.60
3:B:414:LEU:HA	3:B:425:HIS:CD2	2.37	0.60
3:B:679:LEU:HD23	3:B:716:ARG:HD3	1.83	0.60
3:B:781:ARG:CG	3:B:782:GLY:N	2.65	0.60
3:B:932:TYR:O	3:B:933:ALA:HB2	2.01	0.60
4:D:101:GLU:OE1	4:D:138:LYS:HD2	2.01	0.60
8:K:38:ALA:HB1	8:K:42:GLN:HE22	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:13:ILE:HD11	1:Q:86:LEU:HD13	1.82	0.60
1:Q:363:GLN:O	1:Q:366:ILE:HG23	2.01	0.60
1:Q:407:ILE:C	1:Q:407:ILE:HD12	2.26	0.60
2:G:329:ILE:CA	2:G:334:VAL:HG12	2.28	0.60
2:G:390:MET:C	2:G:391:ARG:HD3	2.26	0.60
3:R:242:VAL:CA	3:R:316:ALA:HB1	2.24	0.60
3:R:246:PRO:HG2	3:R:249:GLN:CG	2.29	0.60
3:R:473:MET:HE1	3:R:475:GLN:C	2.27	0.60
3:R:963:LEU:HD22	4:S:208:GLU:HG3	1.83	0.60
3:R:1012:LEU:HD13	3:R:1012:LEU:C	2.26	0.60
7:V:12:ARG:C	7:V:13:ILE:HG22	2.26	0.60
8:W:45:MET:HA	8:W:45:MET:CE	2.25	0.60
8:W:50:LEU:O	8:W:51:ILE:C	2.44	0.60
9:X:18:GLU:HG3	9:X:52:LYS:HG2	1.82	0.60
10:Y:30:ASN:O	10:Y:34:VAL:HG23	2.02	0.60
10:Y:42:ARG:O	10:Y:46:ARG:HB2	2.01	0.60
10:Y:43:TYR:HA	10:Y:46:ARG:CB	2.31	0.60
1:A:299:ALA:HB1	2:C:351:VAL:HG11	1.82	0.60
2:C:355:LEU:HD22	3:B:1109:ILE:HD11	1.83	0.60
3:B:319:ILE:C	3:B:321:LYS:H	2.09	0.60
3:B:855:THR:C	3:B:857:GLU:H	2.08	0.60
1:Q:30:PRO:HB2	1:Q:244:ARG:HG3	1.83	0.60
1:Q:249:LEU:HD13	1:Q:266:TRP:CZ3	2.35	0.60
1:Q:827:LEU:HD23	2:G:316:ILE:HD13	1.84	0.60
1:Q:833:GLU:HG3	1:Q:839:ARG:HG3	1.82	0.60
3:R:59:ARG:NH2	3:R:107:ILE:HD12	2.16	0.60
3:R:63:ILE:CG1	3:R:98:LEU:HD23	2.32	0.60
3:R:64:ARG:HG2	3:R:64:ARG:NH1	2.16	0.60
3:R:676:ALA:HB1	3:R:718:ALA:HB1	1.84	0.60
6:U:14:TYR:C	6:U:18:LYS:HE3	2.27	0.60
10:Y:39:GLY:O	10:Y:40:VAL:HG23	2.02	0.60
3:B:576:ARG:HD3	3:B:615:TYR:HD2	1.67	0.60
3:B:853:THR:HG22	3:B:854:GLU:N	2.06	0.60
3:B:930:GLY:HA3	3:B:987:VAL:HB	1.84	0.60
4:D:13:ILE:HD11	4:D:238:PRO:HB2	1.84	0.60
5:E:31:ARG:O	5:E:33:GLN:N	2.33	0.60
5:E:50:ASN:HB2	5:E:73:ASP:OD2	2.01	0.60
10:N:24:ARG:HD2	10:N:34:VAL:HG13	1.82	0.60
1:Q:245:ILE:CD1	1:Q:268:LEU:HD13	2.31	0.60
1:Q:276:TYR:CD2	1:Q:277:PHE:CE1	2.87	0.60
1:Q:775:SER:HB3	1:Q:777:GLU:HG2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:389:THR:CG2	8:W:77:THR:HB	2.31	0.60
3:R:419:TRP:HZ3	3:R:712:GLY:HA3	1.66	0.60
3:R:518:SER:HB3	3:R:564:ASN:HD21	1.66	0.60
3:R:853:THR:CG2	3:R:854:GLU:H	2.07	0.60
3:R:892:ILE:HB	3:R:897:MET:HE3	1.84	0.60
4:S:4:ASN:O	4:S:15:LEU:HA	2.01	0.60
6:U:59:LEU:HD13	6:U:69:ARG:HG2	1.82	0.60
1:A:258:PRO:C	1:A:260:LEU:H	2.09	0.60
1:A:377:TYR:OH	1:A:385:ARG:HD2	2.01	0.60
1:A:412:ILE:O	1:A:415:ASP:HB2	2.02	0.60
2:C:392:PRO:HG3	5:E:68:HIS:CE1	2.37	0.60
3:B:6:THR:HB	3:B:9:GLU:CB	2.31	0.60
3:B:701:PRO:HG3	3:B:708:LEU:HD11	1.82	0.60
3:B:738:ILE:HG23	3:B:888:ILE:HA	1.84	0.60
3:B:741:ASN:OD1	3:B:743:SER:N	2.34	0.60
3:B:906:PRO:HD3	3:B:985:PHE:HZ	1.66	0.60
4:D:175:ASN:HA	4:D:195:LEU:CD2	2.30	0.60
1:Q:525:LEU:HG	9:X:40:PHE:HZ	1.66	0.60
1:Q:691:THR:CG2	1:Q:692:LEU:HD12	2.32	0.60
2:G:292:ILE:HG23	2:G:293:ILE:N	2.16	0.60
3:R:6:THR:HB	3:R:9:GLU:HB3	1.84	0.60
3:R:28:LEU:HA	3:R:122:MET:HE1	1.83	0.60
3:R:377:ARG:O	3:R:378:LYS:HB2	2.00	0.60
3:R:393:ARG:HH21	3:R:403:TRP:HH2	1.44	0.60
3:R:789:TYR:O	3:R:791:LEU:N	2.35	0.60
3:R:932:TYR:O	3:R:933:ALA:HB2	2.02	0.60
4:S:38:ILE:HD12	4:S:39:MET:N	2.15	0.60
5:T:15:PRO:HG2	8:W:45:MET:HB3	1.83	0.60
1:A:4:LYS:HD2	3:B:1089:PHE:CB	2.31	0.60
1:A:648:LEU:O	1:A:651:VAL:HG12	2.01	0.60
2:C:262:LEU:HD22	2:C:269:VAL:CG1	2.30	0.60
3:B:340:ASN:O	3:B:340:ASN:CG	2.43	0.60
3:B:764:LYS:HD3	3:B:815:SER:CA	2.32	0.60
5:E:145:ARG:O	5:E:163:THR:HG22	2.01	0.60
7:H:12:ARG:C	7:H:13:ILE:HG22	2.26	0.60
2:G:15:GLU:HA	2:G:18:LYS:CD	2.31	0.60
2:G:28:ILE:HD12	8:W:18:VAL:CG2	2.31	0.60
2:G:311:ARG:HD3	2:G:311:ARG:H	1.65	0.60
3:R:6:THR:N	3:R:9:GLU:OE2	2.35	0.60
3:R:80:ILE:CD1	3:R:92:TYR:HA	2.31	0.60
3:R:280:GLN:O	3:R:285:ARG:NH1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:291:GLN:HB3	3:R:295:LYS:HE2	1.83	0.60
3:R:759:SER:HB3	3:R:863:LYS:HA	1.84	0.60
3:R:1036:LEU:HD12	3:R:1045:LEU:HB2	1.82	0.60
3:R:1069:TRP:HD1	3:R:1088:LEU:HD22	1.65	0.60
4:S:171:GLU:O	4:S:217:ILE:HG23	2.01	0.60
5:T:126:ILE:CD1	5:T:137:GLN:HG2	2.32	0.60
1:A:363:GLN:O	1:A:366:ILE:HG23	2.01	0.59
2:C:390:MET:HB2	5:E:56:GLU:CG	2.28	0.59
3:B:6:THR:N	3:B:9:GLU:OE2	2.34	0.59
3:B:63:ILE:CG1	3:B:98:LEU:HD23	2.32	0.59
3:B:111:PRO:O	3:B:112:GLU:HB3	2.02	0.59
3:B:628:LEU:HD23	3:B:628:LEU:N	2.08	0.59
1:Q:288:LYS:HG2	1:Q:294:PRO:CA	2.31	0.59
1:Q:543:ARG:HG2	1:Q:544:GLU:H	1.67	0.59
1:Q:831:ARG:HH21	2:G:385:MET:CG	2.15	0.59
2:G:31:ASP:C	2:G:31:ASP:OD1	2.44	0.59
2:G:109:GLU:O	2:G:113:ALA:HA	2.02	0.59
3:R:587:PRO:C	3:R:588:LEU:HG	2.27	0.59
3:R:906:PRO:HD3	3:R:985:PHE:HZ	1.67	0.59
3:R:1061:CYS:HB3	3:R:1065:GLY:HA2	1.84	0.59
4:S:26:ASN:O	4:S:30:ARG:HG3	2.02	0.59
1:A:427:ARG:N	2:C:76:GLN:HE22	2.00	0.59
1:A:573:ARG:NH2	1:A:721:PRO:HB3	2.17	0.59
1:A:827:LEU:HD23	2:C:316:ILE:HD13	1.82	0.59
2:C:35:LEU:O	2:C:39:LYS:HG3	2.02	0.59
2:C:391:ARG:CB	8:K:75:PRO:HB2	2.32	0.59
3:B:206:LYS:HE3	3:B:220:LYS:NZ	2.17	0.59
3:B:557:HIS:ND1	3:B:566:VAL:HG22	2.17	0.59
3:B:690:THR:HG22	3:B:691:ARG:CG	2.32	0.59
4:D:226:TYR:C	4:D:227:ILE:HG13	2.27	0.59
5:E:17:GLU:HB3	5:E:20:LYS:HD2	1.83	0.59
5:E:63:ASP:OD2	5:E:65:ALA:HB3	2.02	0.59
1:Q:206:TRP:CH2	1:Q:209:LEU:HD23	2.37	0.59
1:Q:276:TYR:CD2	1:Q:277:PHE:HE1	2.21	0.59
1:Q:362:ARG:O	1:Q:366:ILE:HG22	2.02	0.59
1:Q:377:TYR:HE1	1:Q:385:ARG:HG2	1.67	0.59
1:Q:503:ILE:HD11	1:Q:732:GLY:C	2.26	0.59
1:Q:609:GLU:CD	1:Q:614:TRP:HZ2	2.10	0.59
3:R:729:PHE:CD2	3:R:730:THR:HG23	2.36	0.59
4:S:69:SER:O	4:S:70:GLU:C	2.46	0.59
7:V:18:PRO:CB	7:V:67:ARG:HA	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W:34:ARG:O	8:W:34:ARG:HD2	2.01	0.59
1:A:525:LEU:CD1	1:A:530:VAL:HG11	2.33	0.59
1:A:874:ARG:NE	2:C:53:ASP:HB3	2.04	0.59
3:B:63:ILE:HG13	3:B:98:LEU:CB	2.32	0.59
3:B:210:PHE:HE2	3:B:319:ILE:HG23	1.67	0.59
3:B:560:THR:HG22	3:B:561:ASP:N	2.15	0.59
3:B:680:TYR:HE1	3:B:687:ARG:HH12	1.48	0.59
4:D:27:ALA:HB1	9:L:23:THR:HG22	1.84	0.59
8:K:50:LEU:O	8:K:51:ILE:C	2.45	0.59
10:N:43:TYR:HA	10:N:46:ARG:CB	2.30	0.59
1:Q:524:ILE:CG2	1:Q:634:VAL:HG13	2.32	0.59
1:Q:827:LEU:CD1	1:Q:830:LEU:HD12	2.33	0.59
3:R:576:ARG:HD3	3:R:615:TYR:HD2	1.65	0.59
3:R:849:LEU:HB3	3:R:865:ARG:HG2	1.84	0.59
3:R:921:LEU:C	3:R:923:GLN:H	2.10	0.59
8:W:21:SER:O	8:W:24:GLN:HG3	2.02	0.59
1:A:64:THR:O	1:A:66:GLY:N	2.36	0.59
1:A:376:ASN:N	1:A:376:ASN:ND2	2.51	0.59
1:A:552:ILE:HD11	1:A:593:LEU:HD12	1.84	0.59
1:A:876:VAL:C	1:A:878:TRP:N	2.59	0.59
2:C:49:ASP:O	2:C:52:PHE:N	2.35	0.59
3:B:52:GLU:HG3	3:B:56:LEU:CD2	2.32	0.59
3:B:164:GLN:CG	3:B:349:LEU:HD21	2.32	0.59
4:D:52:PRO:HB2	10:N:56:ILE:HD11	1.82	0.59
4:D:171:GLU:O	4:D:217:ILE:HG23	2.01	0.59
6:F:47:CYS:HB2	6:F:52:ALA:HB2	1.84	0.59
7:H:23:LEU:HB3	7:H:28:ALA:HB2	1.84	0.59
1:Q:64:THR:HG22	1:Q:65:LEU:H	1.68	0.59
1:Q:505:GLY:O	1:Q:506:ALA:C	2.44	0.59
1:Q:609:GLU:HB3	1:Q:614:TRP:CE2	2.37	0.59
3:R:560:THR:CG2	3:R:561:ASP:N	2.64	0.59
3:R:1009:VAL:HG12	3:R:1016:PRO:HA	1.83	0.59
3:R:1040:GLY:HA3	8:W:30:TYR:HE2	1.67	0.59
1:A:505:GLY:O	1:A:506:ALA:C	2.45	0.59
1:A:522:GLN:HE21	9:L:33:ARG:HD3	1.67	0.59
1:A:609:GLU:HB3	1:A:614:TRP:CE2	2.38	0.59
1:A:615:LEU:O	1:A:619:TYR:HB2	2.03	0.59
1:A:877:GLY:C	3:R:377:ARG:NH1	2.61	0.59
3:B:134:THR:O	3:B:135:LEU:C	2.45	0.59
3:B:153:ILE:HG22	3:B:156:GLY:HA2	1.83	0.59
3:B:183:ILE:HG13	3:B:206:LYS:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:227:MET:HE3	3:B:312:ALA:HB1	1.84	0.59
5:E:88:GLU:H	5:E:99:VAL:CG1	2.15	0.59
1:Q:284:LEU:N	1:Q:285:PRO:HD2	2.17	0.59
1:Q:417:VAL:HG13	1:Q:465:HIS:O	2.03	0.59
1:Q:446:ASN:O	1:Q:448:LEU:N	2.35	0.59
2:G:262:LEU:HD22	2:G:269:VAL:CG1	2.31	0.59
3:R:978:LYS:HZ3	4:S:205:LEU:HD22	1.67	0.59
3:R:1009:VAL:HB	3:R:1014:ARG:O	2.02	0.59
7:V:55:ILE:O	7:V:56:ASN:C	2.44	0.59
7:V:65:ILE:H	7:V:65:ILE:CD1	2.15	0.59
1:A:377:TYR:H	1:A:388:LEU:CB	2.16	0.59
1:A:487:ILE:HD12	1:A:487:ILE:N	2.18	0.59
1:A:604:GLY:O	1:A:606:GLN:N	2.35	0.59
2:C:361:GLY:O	2:C:362:ASP:O	2.20	0.59
3:B:63:ILE:HD11	3:B:98:LEU:HD23	1.85	0.59
3:B:1009:VAL:HB	3:B:1014:ARG:O	2.03	0.59
4:D:247:LYS:HA	4:D:250:ILE:HD12	1.84	0.59
1:Q:491:TYR:HB2	1:Q:607:GLN:NE2	2.16	0.59
1:Q:768:HIS:NE2	3:R:450:TRP:CZ2	2.68	0.59
2:G:39:LYS:O	2:G:43:VAL:HG23	2.03	0.59
3:R:89:ASN:HD21	3:R:863:LYS:NZ	2.01	0.59
3:R:814:VAL:HG22	3:R:834:ASP:HA	1.83	0.59
7:V:23:LEU:CD1	7:V:62:ILE:HG12	2.33	0.59
8:W:90:LEU:HD23	8:W:90:LEU:H	1.67	0.59
1:A:418:LEU:HD11	3:B:1044:LEU:HD11	1.85	0.59
1:A:827:LEU:CD1	1:A:830:LEU:HD12	2.33	0.59
3:B:80:ILE:CD1	3:B:92:TYR:HA	2.33	0.59
3:B:355:ARG:HH11	3:B:355:ARG:CB	2.15	0.59
3:B:475:GLN:HG2	3:B:476:ILE:N	2.15	0.59
3:B:640:LEU:HD22	3:B:641:GLU:H	1.60	0.59
6:F:87:LEU:HD23	6:F:88:VAL:O	2.03	0.59
1:Q:371:LYS:HD3	1:Q:372:TRP:N	2.17	0.59
2:G:12:TYR:O	2:G:13:LEU:HD23	2.02	0.59
3:R:1000:LYS:O	3:R:1001:LEU:HB2	2.02	0.59
6:U:14:TYR:O	6:U:18:LYS:HG3	2.03	0.59
1:A:4:LYS:HD2	3:B:1089:PHE:C	2.27	0.59
1:A:517:THR:HG22	1:A:518:LYS:N	2.17	0.59
2:C:26:GLN:C	2:C:28:ILE:H	2.09	0.59
3:B:296:TYR:HD1	3:B:296:TYR:N	2.01	0.59
4:D:98:ILE:CD1	4:D:114:ILE:HG23	2.29	0.59
5:E:179:LYS:HZ1	6:F:82:GLU:N	1.98	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:35:GLN:O	6:F:38:TYR:HB2	2.02	0.59
7:H:55:ILE:O	7:H:56:ASN:C	2.46	0.59
1:Q:23:SER:O	1:Q:24:VAL:HG13	2.02	0.59
1:Q:293:ARG:H	1:Q:293:ARG:HD2	1.68	0.59
2:G:268:ASP:OD1	2:G:270:ALA:HB3	2.03	0.59
2:G:284:PHE:CE2	7:V:14:HIS:HB2	2.37	0.59
3:R:182:ASN:HD22	3:R:182:ASN:N	1.99	0.59
3:R:727:MET:HE3	3:R:898:PRO:HG3	1.84	0.59
5:T:30:LEU:HD11	5:T:72:PHE:CD2	2.38	0.59
1:A:23:SER:O	1:A:24:VAL:HG13	2.03	0.59
2:C:63:LEU:C	2:C:64:ILE:HD12	2.27	0.59
3:B:515:LEU:N	3:B:517:TRP:CE3	2.71	0.59
3:B:805:LYS:HG3	3:B:844:MET:HB2	1.85	0.59
3:B:1058:ILE:O	3:B:1091:VAL:HG12	2.03	0.59
4:D:114:ILE:HD12	4:D:123:PRO:HG2	1.84	0.59
4:D:194:LYS:O	4:D:196:SER:N	2.35	0.59
5:E:93:ASP:CG	5:E:94:ASN:N	2.61	0.59
6:F:14:TYR:C	6:F:18:LYS:HE3	2.28	0.59
8:K:70:ARG:HB3	8:K:70:ARG:NH1	2.18	0.59
1:Q:350:PRO:HD3	1:Q:468:GLN:NE2	2.17	0.59
1:Q:487:ILE:HD12	1:Q:487:ILE:N	2.18	0.59
2:G:26:GLN:C	2:G:28:ILE:H	2.09	0.59
3:R:417:THR:O	3:R:418:ASN:HB3	2.03	0.59
3:R:589:VAL:HG12	3:R:590:THR:N	2.16	0.59
3:R:814:VAL:CG1	3:R:832:LYS:HB3	2.32	0.59
3:R:902:LYS:CB	10:Y:42:ARG:HD3	2.33	0.59
3:R:954:GLN:HA	3:R:957:ILE:CD1	2.31	0.59
4:S:98:ILE:HG13	4:S:114:ILE:HA	1.85	0.59
4:S:175:ASN:HA	4:S:195:LEU:CD2	2.31	0.59
1:A:708:ARG:HG3	1:A:709:SER:N	2.18	0.59
2:C:391:ARG:H	2:C:392:PRO:HD3	1.68	0.59
4:D:175:ASN:CA	4:D:195:LEU:HD21	2.33	0.59
4:D:177:GLU:HB2	4:D:178:LYS:HZ3	1.66	0.59
1:Q:64:THR:O	1:Q:66:GLY:N	2.36	0.59
1:Q:781:PHE:HD2	1:Q:781:PHE:C	2.11	0.59
2:G:241:ILE:HG22	2:G:242:VAL:H	1.68	0.59
2:G:355:LEU:HD22	3:R:1109:ILE:HD11	1.85	0.59
2:G:392:PRO:HB3	5:T:22:LEU:CD1	2.31	0.59
3:R:515:LEU:N	3:R:517:TRP:CE3	2.71	0.59
3:R:630:PRO:O	3:R:633:LEU:HB3	2.03	0.59
3:R:699:GLN:NE2	10:Y:48:MET:HE3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:168:TYR:O	5:T:175:ILE:HD13	2.03	0.59
9:X:87:ILE:CG2	9:X:88:LYS:N	2.66	0.59
1:A:244:ARG:O	1:A:248:ARG:HG3	2.02	0.58
1:A:262:ILE:CG1	1:A:266:TRP:HE1	2.16	0.58
1:A:317:ARG:NH1	3:B:1018:GLU:HG3	2.18	0.58
1:A:362:ARG:O	1:A:366:ILE:HG22	2.04	0.58
1:A:412:ILE:HD12	1:A:412:ILE:O	2.03	0.58
1:A:532:ILE:HD11	9:L:56:LYS:CD	2.31	0.58
1:A:723:ASN:HD22	1:A:724:PHE:N	2.00	0.58
3:B:291:GLN:C	3:B:293:ILE:H	2.10	0.58
3:B:291:GLN:HB3	3:B:295:LYS:HE2	1.84	0.58
3:B:294:ASP:HB3	3:B:303:THR:O	2.02	0.58
3:B:560:THR:CG2	3:B:561:ASP:N	2.66	0.58
4:D:38:ILE:HD12	4:D:39:MET:N	2.18	0.58
5:T:2:TYR:CZ	6:U:41:LEU:HD21	2.38	0.58
5:T:82:GLN:HA	5:T:145:ARG:CG	2.33	0.58
7:V:45:ILE:CB	7:V:79:ARG:HB3	2.33	0.58
8:W:70:ARG:HB3	8:W:70:ARG:NH1	2.18	0.58
11:Z:8:LYS:HD3	11:Z:13:PHE:HB3	1.85	0.58
1:A:409:ARG:HH21	1:A:412:ILE:CG1	2.16	0.58
1:A:491:TYR:HB2	1:A:607:GLN:NE2	2.18	0.58
1:A:870:ARG:CZ	2:C:57:LYS:O	2.52	0.58
2:C:28:ILE:HD12	8:K:18:VAL:HG23	1.84	0.58
3:B:281:LYS:O	3:B:285:ARG:HG3	2.03	0.58
3:B:729:PHE:O	3:B:731:GLY:N	2.36	0.58
3:B:978:LYS:HZ2	4:D:205:LEU:HD22	1.67	0.58
3:B:1012:LEU:O	3:B:1095:TYR:HE2	1.86	0.58
3:B:1079:CYS:O	3:B:1081:ILE:N	2.28	0.58
1:Q:4:LYS:HG2	1:Q:5:ASN:H	1.66	0.58
1:Q:507:TYR:HH	1:Q:727:VAL:HG13	1.68	0.58
1:Q:552:ILE:HD11	1:Q:593:LEU:HD12	1.85	0.58
2:G:133:ASP:C	2:G:135:ASP:H	2.11	0.58
2:G:286:ILE:HD13	2:G:324:GLY:O	2.03	0.58
3:R:154:VAL:HG21	3:R:399:ALA:HB2	1.85	0.58
3:R:159:ARG:HD3	3:R:399:ALA:HA	1.83	0.58
3:R:600:GLY:C	3:R:602:ILE:N	2.57	0.58
7:V:81:VAL:O	7:V:82:ILE:HG12	2.03	0.58
1:A:234:ASP:C	1:A:236:THR:N	2.58	0.58
2:C:28:ILE:HB	8:K:18:VAL:HG21	1.84	0.58
2:C:377:HIS:ND1	2:C:378:PRO:HD2	2.17	0.58
3:B:28:LEU:HA	3:B:122:MET:HE1	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:173:LEU:HA	3:B:333:ASP:OD2	2.02	0.58
3:B:677:LEU:HD12	3:B:992:LYS:HD3	1.84	0.58
3:B:795:ASN:HD21	11:P:36:MET:CE	2.14	0.58
3:B:814:VAL:CG1	3:B:832:LYS:HB3	2.32	0.58
6:F:18:LYS:HE2	6:F:41:LEU:CB	2.28	0.58
6:F:57:GLU:C	6:F:59:LEU:H	2.12	0.58
1:Q:541:ALA:HB1	1:Q:542:PRO:CD	2.33	0.58
1:Q:820:GLN:O	1:Q:824:ILE:HG12	2.03	0.58
2:G:386:VAL:HG13	8:W:34:ARG:HG2	1.85	0.58
3:R:52:GLU:HG3	3:R:56:LEU:CD2	2.32	0.58
3:R:96:LEU:O	3:R:115:TYR:HA	2.03	0.58
3:R:319:ILE:C	3:R:321:LYS:H	2.11	0.58
3:R:558:ILE:HG12	3:R:567:HIS:HD2	1.68	0.58
3:R:982:ARG:O	3:R:983:ILE:CG1	2.45	0.58
5:T:117:THR:O	5:T:118:LEU:HD23	2.03	0.58
1:A:609:GLU:CD	1:A:614:TRP:HZ2	2.11	0.58
1:A:828:SER:HB2	2:C:72:ILE:CD1	2.32	0.58
2:C:119:THR:N	2:C:120:PRO:HD3	2.18	0.58
2:C:268:ASP:OD1	2:C:270:ALA:HB3	2.04	0.58
2:C:390:MET:SD	5:E:58:ILE:N	2.77	0.58
2:C:390:MET:CE	5:E:66:THR:HG23	2.34	0.58
3:B:8:ASP:O	3:B:12:ARG:HG2	2.03	0.58
3:B:98:LEU:HD11	3:B:100:MET:HG3	1.86	0.58
3:B:358:PHE:O	3:B:362:VAL:HG23	2.03	0.58
4:D:4:ASN:O	4:D:15:LEU:HA	2.02	0.58
9:L:11:ASN:O	9:L:58:LEU:HD12	2.03	0.58
1:Q:4:LYS:HD2	3:R:1089:PHE:HB3	1.85	0.58
1:Q:336:GLU:OE2	1:Q:436:ARG:HD3	2.03	0.58
1:Q:378:VAL:HG12	1:Q:388:LEU:HD12	1.86	0.58
3:R:244:LEU:HD13	3:R:500:VAL:CG1	2.34	0.58
3:R:247:GLU:HA	3:R:250:ASN:ND2	2.19	0.58
3:R:294:ASP:HB3	3:R:303:THR:O	2.03	0.58
3:R:354:PHE:O	3:R:355:ARG:C	2.46	0.58
3:R:1085:LYS:C	3:R:1087:ASN:H	2.11	0.58
4:S:148:GLY:HA3	4:S:156:PHE:CE1	2.38	0.58
5:T:18:PHE:CB	8:W:48:PRO:HD2	2.33	0.58
5:T:50:ASN:HB2	5:T:73:ASP:OD2	2.03	0.58
8:W:46:GLY:O	8:W:47:ALA:O	2.21	0.58
1:A:12:GLY:HA2	2:C:358:ALA:O	2.04	0.58
1:A:672:VAL:HG11	1:A:776:PRO:HD3	1.86	0.58
1:A:732:GLY:O	1:A:733:ALA:C	2.45	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:743:MET:HG3	3:B:919:MET:CE	2.32	0.58
2:C:127:THR:HA	2:C:266:GLY:O	2.02	0.58
3:B:63:ILE:CD1	3:B:98:LEU:HD23	2.34	0.58
3:B:81:SER:OG	3:B:141:ILE:HG23	2.03	0.58
3:B:248:VAL:O	3:B:251:GLU:HB2	2.03	0.58
4:D:125:SER:C	4:D:127:ASP:H	2.11	0.58
1:Q:79:ARG:HB2	1:Q:266:TRP:CZ3	2.38	0.58
1:Q:632:PHE:HA	1:Q:635:PHE:CE1	2.39	0.58
1:Q:870:ARG:CZ	2:G:57:LYS:O	2.51	0.58
3:R:338:TYR:CZ	3:R:341:LYS:NZ	2.67	0.58
3:R:654:ILE:HG22	3:R:881:ARG:HG2	1.85	0.58
3:R:723:ILE:HB	3:R:907:ASP:OD2	2.04	0.58
1:A:353:ILE:HD11	1:A:407:ILE:HG23	1.84	0.58
1:A:646:MET:HE2	1:A:725:ALA:HB2	1.84	0.58
1:A:864:LYS:HE3	2:C:32:LEU:HD11	1.84	0.58
1:A:872:PHE:HA	1:A:876:VAL:HB	1.84	0.58
2:C:245:LYS:HD2	2:C:250:ILE:HD12	1.86	0.58
3:B:145:PRO:C	3:B:147:ASP:H	2.10	0.58
3:B:740:MET:HE2	3:B:888:ILE:CD1	2.33	0.58
3:B:881:ARG:HH11	3:B:989:TYR:HB3	1.68	0.58
4:D:45:TYR:HD1	11:P:44:ILE:HG12	1.68	0.58
4:D:128:ILE:HG12	10:N:16:ASP:HB3	1.86	0.58
4:D:159:VAL:HG22	4:D:160:SER:N	2.18	0.58
5:E:53:THR:O	5:E:70:VAL:HG13	2.04	0.58
6:F:18:LYS:CE	6:F:41:LEU:HB3	2.31	0.58
9:L:66:LYS:O	9:L:70:LEU:HD13	2.03	0.58
9:L:70:LEU:HA	9:L:73:ILE:HB	1.85	0.58
1:Q:376:ASN:N	1:Q:376:ASN:ND2	2.48	0.58
1:Q:412:ILE:HD12	1:Q:412:ILE:O	2.03	0.58
1:Q:425:LEU:O	1:Q:426:HIS:HB2	2.02	0.58
1:Q:541:ALA:CB	1:Q:542:PRO:CD	2.82	0.58
1:Q:548:GLY:C	1:Q:550:GLN:N	2.61	0.58
3:R:106:ASN:O	3:R:108:GLU:HG3	2.04	0.58
3:R:153:ILE:HG22	3:R:156:GLY:HA2	1.85	0.58
3:R:296:TYR:HD1	3:R:296:TYR:N	2.01	0.58
3:R:518:SER:CB	3:R:564:ASN:HD22	2.16	0.58
3:R:713:TYR:OH	3:R:718:ALA:HB3	2.03	0.58
3:R:781:ARG:CG	3:R:782:GLY:N	2.65	0.58
7:V:63:ILE:HD12	7:V:63:ILE:N	2.18	0.58
8:W:35:VAL:HG23	8:W:36:ILE:N	2.17	0.58
1:A:522:GLN:NE2	9:L:33:ARG:HD3	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:524:ILE:CG2	1:A:634:VAL:HG13	2.33	0.58
3:B:59:ARG:NH2	3:B:107:ILE:HD12	2.18	0.58
3:B:518:SER:CB	3:B:564:ASN:HD22	2.17	0.58
8:K:36:ILE:O	8:K:40:ALA:HB2	2.04	0.58
1:Q:355:PRO:HG2	1:Q:356:TRP:CE2	2.38	0.58
1:Q:812:ARG:HG3	2:G:86:THR:HG23	1.84	0.58
2:G:119:THR:N	2:G:120:PRO:HD3	2.18	0.58
3:R:1070:TYR:O	3:R:1071:ASP:O	2.22	0.58
3:R:1087:ASN:C	3:R:1088:LEU:HG	2.28	0.58
9:X:66:LYS:O	9:X:70:LEU:HD13	2.04	0.58
1:A:4:LYS:HD2	3:B:1089:PHE:HB3	1.84	0.58
1:A:499:ALA:HB3	3:B:734:MET:CE	2.33	0.58
1:A:727:VAL:HG12	1:A:728:MET:N	2.19	0.58
1:A:749:GLN:CA	1:A:781:PHE:HA	2.33	0.58
2:C:321:THR:HG22	7:H:79:ARG:HH12	1.69	0.58
2:C:382:GLY:C	2:C:384:GLY:H	2.12	0.58
3:B:298:LEU:N	3:B:299:PRO:HD3	2.19	0.58
3:B:416:ARG:NH1	3:B:687:ARG:HH22	1.99	0.58
3:B:1012:LEU:HD13	3:B:1012:LEU:C	2.28	0.58
2:G:63:LEU:HD23	2:G:63:LEU:O	2.03	0.58
3:R:123:LEU:HD21	3:R:153:ILE:HD11	1.85	0.58
3:R:435:ARG:HH11	3:R:435:ARG:CG	2.17	0.58
3:R:769:GLN:O	3:R:770:GLU:CB	2.51	0.58
5:T:100:ASN:HD21	6:U:36:ARG:HD3	1.69	0.58
6:U:52:ALA:HA	6:U:55:VAL:CG2	2.34	0.58
1:A:427:ARG:H	2:C:76:GLN:NE2	2.00	0.58
1:A:507:TYR:O	1:A:508:LEU:HB2	2.04	0.58
3:B:247:GLU:HA	3:B:250:ASN:ND2	2.18	0.58
3:B:296:TYR:N	3:B:296:TYR:CD1	2.72	0.58
3:B:803:GLU:HG2	3:B:846:ILE:HG13	1.86	0.58
3:B:1033:ARG:HD2	3:B:1037:ILE:HD11	1.86	0.58
4:D:69:SER:O	4:D:70:GLU:C	2.46	0.58
7:H:62:ILE:HD13	7:H:62:ILE:N	2.19	0.58
1:Q:77:LEU:HD13	1:Q:81:VAL:HG22	1.85	0.58
1:Q:490:ARG:HG2	1:Q:491:TYR:CD2	2.39	0.58
1:Q:837:THR:HG22	1:Q:838:VAL:N	2.19	0.58
2:G:103:GLY:HA2	2:G:106:ARG:HB3	1.85	0.58
2:G:115:LYS:HD2	2:G:276:ASN:ND2	2.18	0.58
2:G:261:VAL:O	2:G:261:VAL:HG12	2.02	0.58
3:R:116:ILE:HG23	3:R:361:PHE:CZ	2.38	0.58
3:R:1061:CYS:HB3	3:R:1065:GLY:CA	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:68:MET:HE3	4:S:124:ILE:CG2	2.34	0.58
5:T:166:GLN:HB3	5:T:167:PRO:HD2	1.85	0.58
1:A:288:LYS:HG2	1:A:294:PRO:CA	2.33	0.58
1:A:293:ARG:HD2	1:A:293:ARG:H	1.69	0.58
1:A:407:ILE:C	1:A:407:ILE:HD12	2.29	0.58
1:A:452:PRO:HA	1:A:495:ILE:CD1	2.34	0.58
1:A:524:ILE:O	1:A:524:ILE:HG22	2.04	0.58
1:A:610:SER:O	1:A:613:HIS:HB3	2.03	0.58
2:C:356:ASP:O	2:C:360:ARG:HB2	2.03	0.58
3:B:6:THR:HB	3:B:9:GLU:HB3	1.86	0.58
3:B:253:PHE:N	3:B:254:PRO:CD	2.67	0.58
3:B:893:PRO:HG2	3:B:896:ASP:OD1	2.04	0.58
3:B:971:TYR:CE2	3:B:978:LYS:HB3	2.39	0.58
3:B:1066:TYR:HB3	3:B:1105:MET:HE1	1.84	0.58
4:D:129:PRO:HG2	10:N:15:ALA:HB1	1.86	0.58
4:D:176:CYS:N	4:D:195:LEU:HD21	2.18	0.58
5:E:117:THR:O	5:E:118:LEU:HD23	2.04	0.58
6:F:35:GLN:HA	6:F:38:TYR:HD1	1.68	0.58
8:K:50:LEU:O	8:K:52:ASP:HB2	2.03	0.58
10:N:7:CYS:CB	10:N:45:CYS:SG	2.90	0.58
10:N:40:VAL:HG12	10:N:40:VAL:O	2.03	0.58
1:Q:481:LEU:CD2	1:Q:482:VAL:H	2.17	0.58
1:Q:831:ARG:HH21	2:G:385:MET:CB	2.17	0.58
3:R:253:PHE:N	3:R:254:PRO:CD	2.66	0.58
3:R:386:ARG:HB2	3:R:389:ILE:CD1	2.34	0.58
3:R:922:GLY:O	3:R:926:GLU:HB2	2.03	0.58
4:S:31:ALA:HA	4:S:35:TYR:CD2	2.39	0.58
4:S:194:LYS:C	4:S:196:SER:H	2.10	0.58
5:T:147:ILE:CG1	5:T:163:THR:HB	2.34	0.58
6:U:18:LYS:HE2	6:U:41:LEU:CB	2.29	0.58
10:Y:21:PHE:HE2	10:Y:35:LEU:HD23	1.69	0.58
1:A:276:TYR:CD2	1:A:277:PHE:CE1	2.89	0.57
1:A:789:GLY:HA2	3:B:659:GLU:O	2.04	0.57
3:B:21:LYS:HA	3:B:25:ARG:NH1	2.19	0.57
3:B:167:LEU:O	3:B:341:LYS:HA	2.04	0.57
3:B:497:VAL:CG1	3:B:498:GLU:N	2.62	0.57
3:B:702:LEU:CD2	3:B:933:ALA:HB1	2.34	0.57
3:B:707:ALA:C	3:B:709:ASP:H	2.12	0.57
3:B:812:GLY:HA2	3:B:836:SER:CB	2.33	0.57
5:E:166:GLN:HB3	5:E:167:PRO:HD2	1.86	0.57
5:E:179:LYS:NZ	6:F:82:GLU:H	2.01	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K:15:PHE:O	8:K:19:PHE:HB2	2.04	0.57
9:L:61:GLY:O	9:L:62:SER:C	2.46	0.57
1:Q:409:ARG:NH2	1:Q:415:ASP:OD2	2.37	0.57
1:Q:499:ALA:HB3	3:R:734:MET:CE	2.34	0.57
1:Q:584:SER:OG	1:Q:585:TYR:N	2.37	0.57
1:Q:656:ASP:O	1:Q:659:LYS:HB2	2.04	0.57
3:R:727:MET:HE2	3:R:983:ILE:HG13	1.86	0.57
3:R:881:ARG:NH1	3:R:989:TYR:CB	2.67	0.57
4:S:25:VAL:HG21	4:S:226:TYR:CD1	2.33	0.57
4:S:169:LYS:HE2	4:S:222:VAL:HG22	1.85	0.57
4:S:194:LYS:O	4:S:196:SER:N	2.37	0.57
5:T:17:GLU:OE1	5:T:25:ILE:HD12	2.04	0.57
1:A:372:TRP:HB3	1:A:373:PRO:HD3	1.84	0.57
1:A:543:ARG:HG2	1:A:544:GLU:H	1.68	0.57
1:A:567:ASN:N	1:A:599:ASP:OD2	2.36	0.57
1:A:672:VAL:HG13	1:A:700:ILE:CD1	2.28	0.57
2:C:321:THR:HB	2:C:322:ARG:HH11	1.69	0.57
3:B:158:GLU:OE2	3:B:416:ARG:NH1	2.36	0.57
3:B:457:GLU:OE1	3:B:652:ALA:HB2	2.05	0.57
4:D:206:CYS:O	4:D:207:GLU:HB2	2.03	0.57
6:F:14:TYR:O	6:F:18:LYS:HG3	2.03	0.57
8:K:34:ARG:O	8:K:34:ARG:HD2	2.04	0.57
1:Q:525:LEU:C	1:Q:527:VAL:N	2.63	0.57
2:G:134:ARG:O	2:G:138:LEU:HD12	2.04	0.57
3:R:160:VAL:HG21	3:R:426:LEU:HD23	1.86	0.57
3:R:669:GLN:C	3:R:671:ALA:H	2.10	0.57
5:T:127:ILE:HB	5:T:136:ILE:HG13	1.85	0.57
1:A:238:LYS:HZ3	1:A:297:THR:HB	1.63	0.57
1:A:552:ILE:C	1:A:554:ALA:H	2.11	0.57
1:A:853:ASP:OD1	1:A:864:LYS:HD3	2.05	0.57
3:B:800:PRO:HG2	11:P:37:VAL:HA	1.86	0.57
1:Q:427:ARG:H	2:G:76:GLN:NE2	1.99	0.57
1:Q:604:GLY:O	1:Q:606:GLN:N	2.34	0.57
1:Q:626:TRP:O	1:Q:627:LEU:C	2.47	0.57
2:G:54:LEU:O	2:G:54:LEU:HD23	2.04	0.57
3:R:1054:ASP:HB3	3:R:1095:TYR:H	1.69	0.57
4:S:98:ILE:HG12	4:S:114:ILE:HG12	1.87	0.57
6:U:18:LYS:CE	6:U:41:LEU:HB3	2.32	0.57
1:A:480:MET:HG2	3:B:1039:PHE:CD1	2.40	0.57
1:A:500:GLN:HG2	3:B:734:MET:HE3	1.85	0.57
2:C:28:ILE:HD12	8:K:18:VAL:CG2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:354:PHE:O	3:B:355:ARG:C	2.47	0.57
6:F:51:SER:O	6:F:54:LYS:HB3	2.03	0.57
10:N:3:ILE:HD11	10:N:18:TRP:CE3	2.39	0.57
1:Q:739:ASN:O	3:R:919:MET:HE3	2.04	0.57
2:G:323:THR:O	2:G:323:THR:HG22	2.04	0.57
3:R:230:LEU:HD13	3:R:312:ALA:HA	1.84	0.57
3:R:338:TYR:HB2	3:R:448:THR:CG2	2.31	0.57
3:R:795:ASN:HD21	11:Z:36:MET:CE	2.16	0.57
3:R:800:PRO:HD3	3:R:850:VAL:HG23	1.86	0.57
3:R:804:VAL:C	3:R:805:LYS:HD2	2.29	0.57
3:R:812:GLY:HA2	3:R:836:SER:CB	2.34	0.57
3:R:1064:CYS:SG	3:R:1064:CYS:O	2.62	0.57
4:S:222:VAL:HG11	4:S:225:LYS:CD	2.35	0.57
10:Y:42:ARG:HG3	10:Y:43:TYR:N	2.11	0.57
1:A:371:LYS:HD3	1:A:372:TRP:N	2.18	0.57
1:A:378:VAL:CG1	1:A:388:LEU:HD12	2.35	0.57
3:B:25:ARG:O	3:B:29:ASP:HB2	2.05	0.57
3:B:235:ASP:O	3:B:239:VAL:HG23	2.05	0.57
3:B:629:GLU:HB3	3:B:630:PRO:HD2	1.87	0.57
3:B:1081:ILE:CG2	3:B:1085:LYS:HZ3	2.17	0.57
6:F:60:SER:HB3	6:F:69:ARG:NH1	2.19	0.57
7:H:23:LEU:CD1	7:H:62:ILE:HG12	2.34	0.57
10:N:60:ILE:HG23	10:N:61:HIS:N	2.17	0.57
11:P:24:VAL:HG13	11:P:24:VAL:O	2.04	0.57
1:Q:672:VAL:O	1:Q:673:ASP:C	2.48	0.57
3:R:640:LEU:CD2	3:R:641:GLU:N	2.52	0.57
3:R:963:LEU:HD12	3:R:967:THR:O	2.05	0.57
4:S:175:ASN:CA	4:S:195:LEU:HD21	2.34	0.57
6:U:31:SER:CA	6:U:35:GLN:HE21	2.17	0.57
11:Z:26:CYS:CB	11:Z:27:PRO:HD2	2.32	0.57
1:A:245:ILE:HD13	1:A:268:LEU:CD1	2.34	0.57
1:A:422:GLN:NE2	1:A:463:ASN:HD21	2.02	0.57
1:A:490:ARG:HG2	1:A:491:TYR:CD2	2.38	0.57
3:B:64:ARG:HG2	3:B:64:ARG:NH1	2.19	0.57
3:B:98:LEU:HD11	3:B:100:MET:CG	2.33	0.57
3:B:473:MET:SD	3:B:475:GLN:N	2.77	0.57
3:B:658:PRO:O	3:B:660:HIS:N	2.35	0.57
3:B:1049:LEU:HD12	3:B:1049:LEU:O	2.03	0.57
3:B:1080:PRO:C	3:B:1081:ILE:HG13	2.30	0.57
6:F:59:LEU:HD13	6:F:69:ARG:HG2	1.86	0.57
1:Q:839:ARG:NH2	8:W:83:PRO:HG3	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:866:VAL:HB	1:Q:869:ASN:HB3	1.86	0.57
3:R:702:LEU:CD2	3:R:933:ALA:HB1	2.35	0.57
4:S:195:LEU:O	4:S:196:SER:O	2.22	0.57
5:T:179:LYS:HZ2	6:U:79:THR:HB	1.65	0.57
6:U:65:ARG:O	6:U:69:ARG:HG3	2.05	0.57
9:X:29:ALA:HA	9:X:32:LEU:HB2	1.85	0.57
11:Z:20:VAL:C	11:Z:21:LEU:HD23	2.30	0.57
1:A:638:PHE:CE2	1:A:642:GLN:HG3	2.40	0.57
2:C:53:ASP:O	2:C:57:LYS:HB2	2.04	0.57
3:B:624:ALA:HB1	3:B:639:HIS:CD2	2.39	0.57
3:B:1080:PRO:O	3:B:1081:ILE:CG1	2.51	0.57
3:B:1095:TYR:CE1	3:B:1098:LYS:HD2	2.40	0.57
4:D:134:GLY:O	4:D:137:GLN:HG3	2.05	0.57
1:Q:81:VAL:HG12	1:Q:270:GLN:CG	2.34	0.57
1:Q:352:ARG:HD3	1:Q:406:ILE:CD1	2.27	0.57
1:Q:522:GLN:NE2	9:X:33:ARG:HD3	2.20	0.57
2:G:49:ASP:O	2:G:52:PHE:N	2.36	0.57
3:R:368:GLN:HE22	3:R:386:ARG:NE	2.03	0.57
3:R:603:THR:O	3:R:604:PHE:C	2.46	0.57
3:R:662:GLN:CG	3:R:664:PRO:HD2	2.34	0.57
3:R:781:ARG:HD3	3:R:782:GLY:N	2.13	0.57
4:S:257:GLU:O	4:S:260:LEU:HB3	2.04	0.57
1:A:422:GLN:HA	1:A:424:SER:N	2.20	0.57
1:A:877:GLY:CA	3:R:377:ARG:NH1	2.67	0.57
2:C:109:GLU:OE2	2:C:117:PRO:HA	2.05	0.57
2:C:261:VAL:O	2:C:261:VAL:HG12	2.05	0.57
3:B:28:LEU:C	3:B:30:SER:H	2.11	0.57
3:B:676:ALA:HB1	3:B:718:ALA:HB1	1.87	0.57
3:B:749:MET:HG2	3:B:750:TYR:HD1	1.69	0.57
6:F:52:ALA:HA	6:F:55:VAL:CG2	2.35	0.57
6:F:65:ARG:O	6:F:69:ARG:HG3	2.05	0.57
10:N:1:MET:HE2	10:N:56:ILE:CD1	2.35	0.57
1:Q:334:ILE:HG22	1:Q:482:VAL:CG1	2.34	0.57
1:Q:368:GLY:O	1:Q:374:GLY:HA3	2.05	0.57
1:Q:490:ARG:HA	2:G:312:HIS:CE1	2.39	0.57
1:Q:791:LYS:HB2	1:Q:794:GLU:HG3	1.87	0.57
2:G:127:THR:HA	2:G:266:GLY:O	2.04	0.57
2:G:390:MET:HE2	5:T:66:THR:HG23	1.87	0.57
2:G:390:MET:CE	5:T:66:THR:HG23	2.35	0.57
2:G:392:PRO:HB2	5:T:22:LEU:HD21	1.87	0.57
3:R:82:PRO:HG2	3:R:143:GLU:OE1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:206:LYS:HE3	3:R:220:LYS:NZ	2.18	0.57
3:R:245:ASP:CG	3:R:515:LEU:HG	2.29	0.57
3:R:852:ILE:CD1	11:Z:35:PHE:HA	2.35	0.57
4:S:111:SER:OG	4:S:126:GLY:HA2	2.04	0.57
1:A:529:ASP:HB3	1:A:626:TRP:NE1	2.20	0.57
1:A:691:THR:CG2	1:A:692:LEU:HD12	2.30	0.57
1:A:720:ASP:C	1:A:722:PHE:H	2.12	0.57
1:A:746:MET:H	1:A:785:SER:HB3	1.69	0.57
2:C:104:LEU:O	2:C:108:ILE:HG12	2.05	0.57
2:C:339:ASN:OD1	2:C:344:ARG:HD2	2.05	0.57
3:B:243:SER:CB	3:B:246:PRO:HG3	2.34	0.57
3:B:338:TYR:HB2	3:B:448:THR:CG2	2.32	0.57
3:B:338:TYR:CZ	3:B:341:LYS:NZ	2.70	0.57
3:B:544:ARG:NH2	3:B:614:GLU:OE1	2.38	0.57
3:B:672:MET:CG	3:B:993:LEU:HD21	2.34	0.57
4:D:86:THR:O	4:D:87:GLU:HB3	2.05	0.57
4:D:170:VAL:HG23	4:D:200:GLU:HG3	1.85	0.57
6:F:1:MET:HE1	6:F:6:ILE:HG12	1.86	0.57
11:P:39:LYS:O	11:P:41:THR:N	2.38	0.57
1:Q:377:TYR:OH	1:Q:385:ARG:HD2	2.04	0.57
1:Q:749:GLN:CA	1:Q:781:PHE:HA	2.35	0.57
3:R:227:MET:HE3	3:R:312:ALA:HB1	1.87	0.57
3:R:448:THR:HG22	3:R:449:GLN:H	1.70	0.57
3:R:453:MET:HE3	3:R:470:LEU:HA	1.86	0.57
3:R:805:LYS:HG3	3:R:844:MET:HB2	1.87	0.57
4:S:22:LEU:C	4:S:24:PHE:H	2.13	0.57
10:Y:20:SER:O	10:Y:24:ARG:HG3	2.05	0.57
1:A:279:ASN:HB2	1:A:297:THR:HG23	1.84	0.57
1:A:534:LEU:HD23	9:L:39:SER:OG	2.03	0.57
1:A:589:LYS:O	1:A:592:ILE:HB	2.05	0.57
2:C:359:ALA:O	2:C:361:GLY:N	2.37	0.57
2:C:391:ARG:HB2	8:K:75:PRO:HB2	1.86	0.57
2:C:392:PRO:HG3	5:E:68:HIS:HE1	1.70	0.57
3:B:324:GLU:O	3:B:325:LEU:HB2	2.05	0.57
3:B:759:SER:HB3	3:B:863:LYS:HA	1.86	0.57
3:B:764:LYS:HB3	3:B:815:SER:HB2	1.86	0.57
3:B:890:MET:HE3	3:B:890:MET:HA	1.86	0.57
5:E:39:LEU:CD2	5:E:41:ASP:H	2.18	0.57
7:H:63:ILE:HD12	7:H:63:ILE:N	2.20	0.57
2:G:241:ILE:CG2	2:G:242:VAL:N	2.67	0.57
3:R:193:THR:HG21	3:R:197:ARG:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:276:VAL:HG12	3:R:277:ALA:N	2.15	0.57
3:R:1061:CYS:HB3	3:R:1064:CYS:C	2.30	0.57
4:S:36:VAL:HB	4:S:158:PRO:HG3	1.87	0.57
4:S:250:ILE:CA	4:S:253:ILE:HG22	2.35	0.57
1:A:690:ARG:HD2	1:A:694:GLU:OE1	2.04	0.56
3:B:691:ARG:HH12	3:B:756:ARG:NH2	2.03	0.56
3:B:892:ILE:HB	3:B:897:MET:HE3	1.87	0.56
4:D:134:GLY:O	4:D:135:THR:C	2.48	0.56
7:H:51:VAL:O	7:H:54:SER:HB3	2.04	0.56
8:K:35:VAL:HG23	8:K:36:ILE:N	2.19	0.56
10:N:22:ILE:CD1	10:N:22:ILE:H	2.18	0.56
1:Q:412:ILE:O	1:Q:415:ASP:HB2	2.05	0.56
1:Q:567:ASN:HD22	1:Q:731:THR:CA	2.18	0.56
1:Q:847:GLN:OE1	1:Q:850:TYR:HA	2.04	0.56
2:G:384:GLY:HA2	5:T:61:PHE:CZ	2.40	0.56
3:R:281:LYS:O	3:R:285:ARG:HG3	2.05	0.56
3:R:800:PRO:HB2	11:Z:38:ARG:HA	1.85	0.56
4:S:252:LYS:O	4:S:255:GLU:N	2.38	0.56
5:T:79:PRO:HG3	5:T:160:ILE:CD1	2.34	0.56
6:U:48:ASP:H	6:U:51:SER:HG	1.52	0.56
7:V:16:LEU:HD12	7:V:16:LEU:H	1.70	0.56
7:V:51:VAL:O	7:V:54:SER:HB3	2.04	0.56
9:X:70:LEU:HA	9:X:73:ILE:HB	1.87	0.56
11:Z:6:CYS:O	11:Z:37:VAL:HG12	2.05	0.56
1:A:612:LEU:HD23	1:A:612:LEU:C	2.29	0.56
1:A:647:ARG:HB2	1:A:650:ASP:CG	2.30	0.56
1:A:834:TYR:CE1	8:K:80:ARG:HD3	2.39	0.56
2:C:115:LYS:HD2	2:C:276:ASN:ND2	2.20	0.56
3:B:70:VAL:HG11	3:B:90:LEU:HD23	1.86	0.56
3:B:193:THR:HG21	3:B:197:ARG:H	1.70	0.56
3:B:699:GLN:HA	10:N:51:SER:O	2.06	0.56
3:B:797:VAL:CG1	11:P:36:MET:HE1	2.35	0.56
4:D:96:ILE:HD11	4:D:143:ALA:HB3	1.87	0.56
8:K:26:ARG:HG2	8:K:90:LEU:CB	2.35	0.56
1:Q:245:ILE:HD13	1:Q:268:LEU:CB	2.33	0.56
1:Q:781:PHE:C	1:Q:781:PHE:CD2	2.82	0.56
1:Q:876:VAL:C	1:Q:878:TRP:N	2.58	0.56
2:G:284:PHE:HE2	7:V:14:HIS:HB2	1.70	0.56
3:R:202:ILE:HG22	3:R:203:GLU:N	2.19	0.56
4:S:16:VAL:HG13	4:S:167:TYR:CE1	2.40	0.56
4:S:18:GLU:HB2	4:S:225:LYS:HE3	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:35:ILE:O	9:X:38:VAL:HG23	2.05	0.56
10:Y:21:PHE:CZ	10:Y:38:LEU:HD13	2.40	0.56
1:A:245:ILE:HD13	1:A:268:LEU:CB	2.34	0.56
1:A:409:ARG:NH2	1:A:415:ASP:OD2	2.38	0.56
1:A:507:TYR:HH	1:A:727:VAL:HG13	1.67	0.56
1:A:646:MET:SD	3:B:915:LEU:HD23	2.45	0.56
1:A:741:THR:O	1:A:742:GLN:C	2.48	0.56
1:A:853:ASP:CB	2:C:311:ARG:HH12	2.15	0.56
2:C:80:GLU:HB3	2:C:81:PRO:CD	2.34	0.56
2:C:241:ILE:CG2	2:C:242:VAL:N	2.68	0.56
2:C:315:LEU:O	2:C:319:VAL:HG23	2.05	0.56
2:C:337:GLU:OE2	2:C:339:ASN:CG	2.47	0.56
2:C:354:LEU:O	3:B:1109:ILE:HD12	2.06	0.56
2:C:391:ARG:HH21	8:K:42:GLN:CG	2.19	0.56
3:B:63:ILE:HG13	3:B:98:LEU:HA	1.86	0.56
3:B:256:LEU:C	3:B:258:GLN:H	2.13	0.56
3:B:298:LEU:O	3:B:300:HIS:N	2.37	0.56
3:B:403:TRP:CG	3:B:404:VAL:N	2.65	0.56
3:B:435:ARG:HH11	3:B:435:ARG:CG	2.16	0.56
3:B:603:THR:O	3:B:604:PHE:C	2.49	0.56
3:B:662:GLN:CG	3:B:664:PRO:HD2	2.34	0.56
3:B:699:GLN:HE22	10:N:48:MET:HE3	1.69	0.56
3:B:780:VAL:HG12	3:B:831:ALA:N	2.21	0.56
3:B:873:THR:CG2	3:B:874:ILE:H	2.16	0.56
3:B:978:LYS:HZ3	4:D:205:LEU:HD13	1.70	0.56
3:B:1041:THR:HG23	3:B:1041:THR:O	2.05	0.56
3:B:1060:VAL:C	3:B:1088:LEU:HD23	2.30	0.56
3:B:1061:CYS:HB3	3:B:1065:GLY:HA2	1.87	0.56
4:D:21:PRO:HG2	4:D:24:PHE:HB2	1.88	0.56
4:D:112:LYS:C	4:D:114:ILE:H	2.14	0.56
4:D:169:LYS:HE2	4:D:222:VAL:HG22	1.86	0.56
5:E:93:ASP:CG	5:E:94:ASN:H	2.14	0.56
9:L:69:LEU:HD23	9:L:69:LEU:C	2.30	0.56
10:N:21:PHE:HE2	10:N:35:LEU:HD23	1.70	0.56
10:N:60:ILE:HG23	10:N:61:HIS:ND1	2.21	0.56
1:Q:64:THR:HG22	1:Q:65:LEU:N	2.19	0.56
1:Q:220:ARG:H	1:Q:221:PRO:HD3	1.70	0.56
1:Q:237:HIS:HE1	1:Q:290:ARG:HH21	1.53	0.56
1:Q:775:SER:CB	1:Q:777:GLU:HG2	2.34	0.56
1:Q:807:VAL:CG1	3:R:443:ARG:NH1	2.67	0.56
3:R:21:LYS:HA	3:R:25:ARG:NH1	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:64:ARG:N	3:R:97:TRP:HB2	2.21	0.56
3:R:314:TYR:CD1	3:R:314:TYR:N	2.73	0.56
3:R:345:LEU:O	3:R:346:ALA:C	2.48	0.56
3:R:475:GLN:HG2	3:R:476:ILE:N	2.17	0.56
3:R:687:ARG:HH11	3:R:687:ARG:CG	2.18	0.56
3:R:850:VAL:HG13	3:R:864:VAL:HG22	1.87	0.56
4:S:169:LYS:O	4:S:219:ILE:HA	2.05	0.56
5:T:2:TYR:CE2	6:U:41:LEU:HD11	2.40	0.56
5:T:108:VAL:HG11	5:T:164:MET:SD	2.45	0.56
6:U:30:SER:OG	6:U:31:SER:N	2.37	0.56
8:W:50:LEU:H	8:W:50:LEU:CD1	2.18	0.56
10:Y:21:PHE:CE1	10:Y:38:LEU:HD13	2.41	0.56
1:A:365:VAL:HG11	1:A:401:LEU:CD1	2.34	0.56
1:A:567:ASN:ND2	1:A:731:THR:N	2.54	0.56
1:A:765:THR:O	1:A:766:LEU:HD22	2.06	0.56
1:A:831:ARG:NH2	2:C:385:MET:CG	2.68	0.56
1:A:853:ASP:HB2	2:C:311:ARG:NH1	2.17	0.56
2:C:337:GLU:CG	2:C:338:LYS:H	2.13	0.56
3:B:12:ARG:HG3	3:B:596:LYS:HG2	1.87	0.56
3:B:202:ILE:HG22	3:B:203:GLU:N	2.20	0.56
3:B:226:LEU:C	3:B:228:ARG:H	2.14	0.56
3:B:683:ASN:C	3:B:685:GLN:H	2.13	0.56
3:B:982:ARG:O	3:B:983:ILE:CG1	2.46	0.56
3:B:1004:ARG:HH11	3:B:1025:GLY:N	1.97	0.56
4:D:90:GLU:O	4:D:92:CYS:N	2.39	0.56
4:D:151:LYS:O	4:D:152:GLU:O	2.24	0.56
6:F:30:SER:HB2	6:F:34:LEU:CD1	2.34	0.56
9:L:39:SER:HB3	9:L:58:LEU:O	2.05	0.56
1:Q:529:ASP:HB3	1:Q:626:TRP:NE1	2.20	0.56
1:Q:742:GLN:HB3	3:R:919:MET:HE1	1.86	0.56
1:Q:864:LYS:HE3	2:G:32:LEU:HD11	1.87	0.56
2:G:286:ILE:HD11	7:V:46:ARG:H	1.71	0.56
2:G:393:ILE:HG22	2:G:394:LEU:N	2.19	0.56
3:R:63:ILE:HG13	3:R:98:LEU:HA	1.87	0.56
3:R:210:PHE:HE2	3:R:319:ILE:HG23	1.69	0.56
3:R:686:LEU:H	3:R:686:LEU:CD1	2.13	0.56
9:X:7:LYS:H	9:X:14:GLU:HB3	1.70	0.56
1:A:727:VAL:O	1:A:729:ALA:O	2.23	0.56
2:C:41:ILE:HG22	2:C:42:ILE:HD12	1.87	0.56
3:B:245:ASP:CG	3:B:515:LEU:HG	2.30	0.56
3:B:655:ILE:O	3:B:658:PRO:HD3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:694:LEU:HD13	3:B:694:LEU:C	2.31	0.56
3:B:895:VAL:HG23	3:B:896:ASP:OD1	2.05	0.56
3:B:1070:TYR:N	3:B:1070:TYR:CD2	2.72	0.56
4:D:203:CYS:SG	4:D:204:THR:N	2.78	0.56
6:F:59:LEU:HD23	6:F:59:LEU:O	2.06	0.56
7:H:18:PRO:CB	7:H:67:ARG:HA	2.35	0.56
1:Q:664:GLU:OE2	1:Q:667:ARG:HD3	2.05	0.56
2:G:145:GLU:HG2	2:G:239:ARG:HA	1.87	0.56
2:G:390:MET:HE2	2:G:390:MET:HA	1.87	0.56
3:R:98:LEU:C	3:R:98:LEU:HD13	2.31	0.56
3:R:130:ILE:HA	3:R:133:TYR:CD1	2.41	0.56
3:R:157:SER:O	3:R:158:GLU:CB	2.54	0.56
3:R:386:ARG:CB	3:R:389:ILE:HD11	2.35	0.56
3:R:537:ALA:HB2	3:R:557:HIS:HE2	1.67	0.56
3:R:699:GLN:HA	10:Y:51:SER:O	2.04	0.56
4:S:13:ILE:HG13	4:S:238:PRO:HB2	1.88	0.56
4:S:114:ILE:HD12	4:S:123:PRO:HG2	1.86	0.56
4:S:134:GLY:O	4:S:135:THR:C	2.48	0.56
5:T:17:GLU:HG2	5:T:20:LYS:HZ3	1.68	0.56
7:V:80:TYR:O	7:V:81:VAL:HB	2.06	0.56
8:W:78:ILE:O	8:W:89:LEU:HA	2.05	0.56
1:A:308:ARG:HG3	1:A:312:ASN:ND2	2.21	0.56
1:A:679:TYR:OH	1:A:693:GLU:HG2	2.06	0.56
1:A:833:GLU:OE2	1:A:839:ARG:HB2	2.04	0.56
2:C:331:ARG:HD3	2:C:348:GLU:CB	2.35	0.56
3:B:59:ARG:NH1	3:B:107:ILE:HD12	2.20	0.56
3:B:230:LEU:HD13	3:B:312:ALA:HA	1.86	0.56
3:B:245:ASP:N	3:B:246:PRO:CD	2.69	0.56
3:B:397:ALA:O	3:B:402:ASN:HA	2.06	0.56
3:B:768:GLY:O	3:B:769:GLN:HB2	2.06	0.56
3:B:1000:LYS:O	3:B:1001:LEU:HB2	2.05	0.56
4:D:36:VAL:HB	4:D:158:PRO:HG3	1.87	0.56
4:D:237:LYS:O	4:D:240:ARG:HB3	2.06	0.56
1:Q:528:ALA:O	1:Q:530:VAL:N	2.39	0.56
1:Q:620:SER:C	1:Q:622:GLU:H	2.12	0.56
1:Q:647:ARG:NH2	3:R:982:ARG:HH12	2.04	0.56
2:G:55:ALA:HA	2:G:58:GLU:OE2	2.06	0.56
2:G:337:GLU:CG	2:G:338:LYS:H	2.18	0.56
2:G:391:ARG:H	2:G:392:PRO:HD3	1.69	0.56
3:R:34:PHE:HE1	3:R:351:ALA:HA	1.71	0.56
3:R:727:MET:CE	3:R:898:PRO:HG3	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:911:ASN:HD22	3:R:913:HIS:H	1.52	0.56
1:A:354:THR:O	1:A:355:PRO:O	2.24	0.56
1:A:530:VAL:O	1:A:530:VAL:CG1	2.54	0.56
1:A:552:ILE:C	1:A:552:ILE:HD12	2.30	0.56
1:A:567:ASN:HD22	1:A:731:THR:CA	2.18	0.56
1:A:704:LEU:HD13	1:A:781:PHE:CD1	2.33	0.56
1:A:723:ASN:O	1:A:724:PHE:C	2.48	0.56
2:C:343:ALA:HB2	2:C:371:GLU:HG3	1.87	0.56
3:B:294:ASP:O	3:B:303:THR:HG23	2.06	0.56
3:B:855:THR:CG2	3:B:857:GLU:HG2	2.36	0.56
4:D:25:VAL:HG21	4:D:226:TYR:CD1	2.36	0.56
5:E:108:VAL:HG11	5:E:164:MET:SD	2.45	0.56
6:F:41:LEU:O	6:F:43:SER:N	2.33	0.56
9:L:29:ALA:HA	9:L:32:LEU:HB2	1.86	0.56
1:Q:354:THR:HB	1:Q:355:PRO:CD	2.29	0.56
1:Q:409:ARG:HH11	1:Q:409:ARG:CB	2.19	0.56
1:Q:610:SER:O	1:Q:613:HIS:HB3	2.06	0.56
1:Q:647:ARG:HB2	1:Q:650:ASP:CG	2.31	0.56
1:Q:679:TYR:OH	1:Q:693:GLU:HG2	2.06	0.56
2:G:104:LEU:HB3	2:G:105:PRO:CD	2.30	0.56
3:R:12:ARG:HG3	3:R:596:LYS:HG2	1.88	0.56
3:R:541:ARG:NH2	3:R:557:HIS:HD2	2.03	0.56
4:S:7:HIS:ND1	4:S:8:LYS:N	2.54	0.56
6:U:57:GLU:C	6:U:59:LEU:H	2.13	0.56
8:W:91:SER:O	8:W:92:LEU:HB2	2.05	0.56
9:X:11:ASN:O	9:X:58:LEU:HD12	2.06	0.56
1:A:245:ILE:HD12	1:A:272:HIS:CD2	2.40	0.56
1:A:647:ARG:NH2	3:B:982:ARG:HH12	2.03	0.56
2:C:68:GLU:HB3	8:K:30:TYR:CZ	2.41	0.56
2:C:126:LEU:HD12	2:C:131:LYS:CG	2.35	0.56
3:B:60:LEU:CD2	3:B:98:LEU:HD21	2.32	0.56
3:B:702:LEU:HB2	3:B:721:ASN:ND2	2.21	0.56
3:B:784:LYS:HE3	3:B:834:ASP:HB3	1.88	0.56
3:B:877:LYS:HE3	3:B:885:LYS:HD2	1.88	0.56
3:B:1069:TRP:NE1	3:B:1088:LEU:HD22	2.21	0.56
4:D:259:LYS:O	4:D:263:VAL:HG23	2.05	0.56
8:K:54:ASN:ND2	8:K:58:SER:H	2.03	0.56
10:N:13:LEU:O	10:N:14:ILE:HD13	2.05	0.56
1:Q:334:ILE:HD11	1:Q:628:MET:HE3	1.88	0.56
1:Q:504:SER:O	1:Q:508:LEU:HD12	2.05	0.56
1:Q:727:VAL:HG12	1:Q:728:MET:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:699:GLN:HG3	3:R:720:ASN:ND2	2.20	0.56
3:R:745:VAL:HG13	3:R:872:PRO:HG2	1.87	0.56
3:R:851:LEU:HA	11:Z:35:PHE:CB	2.34	0.56
6:U:51:SER:O	6:U:54:LYS:HB3	2.06	0.56
6:U:59:LEU:O	6:U:59:LEU:HD23	2.06	0.56
8:W:26:ARG:HG2	8:W:90:LEU:CB	2.36	0.56
1:A:194:ILE:O	1:A:194:ILE:HG22	2.06	0.56
1:A:503:ILE:HD11	1:A:732:GLY:C	2.31	0.56
1:A:558:LYS:H	1:A:558:LYS:CD	2.13	0.56
2:C:391:ARG:N	2:C:392:PRO:HD3	2.21	0.56
3:B:314:TYR:CD1	3:B:314:TYR:N	2.72	0.56
3:B:803:GLU:HB3	3:B:805:LYS:HZ1	1.69	0.56
3:B:904:VAL:CG2	10:N:42:ARG:HE	2.14	0.56
4:D:63:ALA:HB1	4:D:155:LYS:HZ3	1.69	0.56
7:H:45:ILE:CB	7:H:79:ARG:HB3	2.35	0.56
1:Q:88:LYS:O	1:Q:92:GLU:HG3	2.06	0.56
1:Q:185:GLU:HA	1:Q:205:GLU:HG2	1.88	0.56
1:Q:234:ASP:C	1:Q:236:THR:N	2.62	0.56
1:Q:567:ASN:ND2	1:Q:731:THR:N	2.54	0.56
2:G:41:ILE:HG22	2:G:42:ILE:HD12	1.87	0.56
3:R:111:PRO:O	3:R:112:GLU:HB3	2.04	0.56
3:R:764:LYS:HD3	3:R:815:SER:CA	2.35	0.56
3:R:877:LYS:HE3	3:R:885:LYS:HD2	1.88	0.56
3:R:1070:TYR:N	3:R:1070:TYR:CD2	2.71	0.56
1:A:807:VAL:CG1	3:B:443:ARG:HH11	2.18	0.56
1:A:866:VAL:HB	1:A:869:ASN:HB3	1.87	0.56
2:C:44:THR:HG22	2:C:46:ASP:OD2	2.06	0.56
3:B:116:ILE:HG22	3:B:390:VAL:HG21	1.88	0.56
3:B:654:ILE:HG22	3:B:881:ARG:HG2	1.88	0.56
3:B:870:ARG:NH2	3:B:996:MET:SD	2.79	0.56
4:D:45:TYR:CD1	11:P:44:ILE:HG12	2.41	0.56
4:D:64:LEU:HD22	10:N:6:ARG:CD	2.36	0.56
4:D:190:LEU:HD23	4:D:190:LEU:N	2.21	0.56
7:H:35:LEU:O	7:H:37:ILE:HG13	2.06	0.56
7:H:80:TYR:O	7:H:81:VAL:HB	2.04	0.56
8:K:39:ARG:HH21	8:K:50:LEU:HD13	1.71	0.56
8:K:50:LEU:CD1	8:K:50:LEU:H	2.19	0.56
11:P:37:VAL:HG22	11:P:38:ARG:N	2.21	0.56
1:Q:23:SER:OG	1:Q:73:GLY:HA2	2.06	0.56
1:Q:90:ILE:CG2	1:Q:208:ILE:HD11	2.35	0.56
1:Q:212:LEU:CD2	1:Q:242:ILE:HD13	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:500:GLN:HG2	3:R:734:MET:HE3	1.88	0.56
1:Q:734:ARG:HG3	3:R:917:SER:HB3	1.87	0.56
1:Q:826:ALA:CB	2:G:335:THR:HG23	2.26	0.56
1:Q:878:TRP:HZ3	2:G:50:LYS:HE2	1.68	0.56
2:G:315:LEU:O	2:G:319:VAL:HG23	2.06	0.56
3:R:25:ARG:O	3:R:29:ASP:HB2	2.05	0.56
3:R:624:ALA:HB1	3:R:639:HIS:CD2	2.39	0.56
3:R:800:PRO:O	3:R:802:VAL:N	2.33	0.56
3:R:890:MET:CE	3:R:891:LEU:H	2.17	0.56
4:S:6:LEU:HD13	4:S:16:VAL:CG2	2.35	0.56
4:S:48:GLU:HB3	4:S:140:SER:HB3	1.86	0.56
4:S:90:GLU:C	4:S:92:CYS:N	2.64	0.56
5:T:18:PHE:HE2	8:W:42:GLN:HG2	1.70	0.56
6:U:35:GLN:O	6:U:38:TYR:HB2	2.06	0.56
6:U:72:LEU:HD23	6:U:86:ILE:CD1	2.36	0.56
10:Y:22:ILE:HD13	10:Y:23:THR:H	1.71	0.56
1:A:377:TYR:CE1	1:A:385:ARG:HG2	2.41	0.55
1:A:607:GLN:O	1:A:608:PRO:C	2.49	0.55
1:A:851:GLY:C	1:A:853:ASP:H	2.13	0.55
2:C:126:LEU:HD12	2:C:131:LYS:HA	1.86	0.55
3:B:188:LYS:HA	3:B:203:GLU:O	2.06	0.55
3:B:669:GLN:C	3:B:671:ALA:H	2.13	0.55
3:B:683:ASN:C	3:B:685:GLN:N	2.63	0.55
3:B:849:LEU:HB3	3:B:865:ARG:HG2	1.87	0.55
1:Q:489:PRO:CB	1:Q:858:MET:HG3	2.36	0.55
1:Q:612:LEU:HD23	1:Q:612:LEU:C	2.32	0.55
2:G:53:ASP:O	2:G:57:LYS:HB2	2.06	0.55
2:G:245:LYS:HD2	2:G:250:ILE:HD12	1.87	0.55
3:R:17:TYR:OH	3:R:474:ALA:HA	2.05	0.55
3:R:164:GLN:CG	3:R:349:LEU:HD21	2.36	0.55
3:R:245:ASP:N	3:R:246:PRO:CD	2.69	0.55
3:R:474:ALA:HB2	3:R:578:PRO:HG3	1.86	0.55
3:R:930:GLY:HA2	10:Y:47:ARG:NH2	2.20	0.55
4:S:96:ILE:HD11	4:S:143:ALA:HB3	1.88	0.55
4:S:177:GLU:HB2	4:S:178:LYS:HZ3	1.69	0.55
5:T:64:GLY:H	8:W:41:LEU:HD23	1.72	0.55
5:T:97:ILE:HD12	5:T:113:ILE:CD1	2.36	0.55
11:Z:16:GLU:CD	11:Z:26:CYS:HB2	2.31	0.55
1:A:325:VAL:O	1:A:442:THR:HB	2.06	0.55
1:A:488:THR:HG22	1:A:490:ARG:H	1.71	0.55
1:A:548:GLY:C	1:A:550:GLN:N	2.63	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:765:THR:HG21	1:A:797:PHE:CE2	2.39	0.55
2:C:132:ARG:HA	2:C:249:TYR:HD1	1.71	0.55
2:C:277:ILE:HG22	2:C:278:ARG:N	2.19	0.55
2:C:286:ILE:HD13	2:C:324:GLY:O	2.06	0.55
2:C:393:ILE:HG21	2:C:395:ARG:NH2	2.16	0.55
3:B:130:ILE:HA	3:B:133:TYR:CD1	2.40	0.55
3:B:248:VAL:HG21	3:B:329:ARG:NH2	2.17	0.55
3:B:377:ARG:O	3:B:378:LYS:HB2	2.05	0.55
3:B:562:PHE:N	3:B:562:PHE:CD1	2.73	0.55
3:B:867:ARG:NH2	4:D:54:TYR:CE2	2.73	0.55
4:D:7:HIS:ND1	4:D:8:LYS:N	2.53	0.55
4:D:48:GLU:HB3	4:D:140:SER:HB3	1.88	0.55
7:H:16:LEU:HD12	7:H:16:LEU:H	1.71	0.55
7:H:65:ILE:H	7:H:65:ILE:CD1	2.18	0.55
8:K:71:ARG:HB2	8:K:71:ARG:NH1	2.20	0.55
10:N:22:ILE:HD13	10:N:22:ILE:H	1.71	0.55
1:Q:279:ASN:HB2	1:Q:297:THR:HG23	1.88	0.55
1:Q:746:MET:N	1:Q:785:SER:HB3	2.20	0.55
1:Q:787:ARG:NH2	1:Q:788:THR:HA	2.21	0.55
1:Q:827:LEU:HD13	2:G:319:VAL:HG21	1.88	0.55
1:Q:864:LYS:HE3	2:G:32:LEU:CD1	2.35	0.55
2:G:331:ARG:HD3	2:G:348:GLU:CB	2.35	0.55
3:R:296:TYR:N	3:R:296:TYR:CD1	2.72	0.55
3:R:895:VAL:HG23	3:R:896:ASP:OD1	2.05	0.55
4:S:63:ALA:HB1	4:S:155:LYS:HZ3	1.71	0.55
4:S:160:SER:HB3	4:S:233:VAL:HG12	1.87	0.55
1:A:334:ILE:HG22	1:A:482:VAL:CG1	2.36	0.55
1:A:417:VAL:HG11	1:A:464:LEU:CD1	2.36	0.55
1:A:490:ARG:HA	2:C:312:HIS:CE1	2.41	0.55
1:A:606:GLN:HE21	1:A:608:PRO:HG2	1.72	0.55
2:C:366:PHE:O	2:C:368:GLY:N	2.39	0.55
3:B:5:LEU:HA	3:B:9:GLU:OE2	2.06	0.55
3:B:148:PRO:HG3	3:B:422:MET:CE	2.37	0.55
3:B:577:ARG:HE	3:B:578:PRO:HD2	1.71	0.55
3:B:769:GLN:O	3:B:770:GLU:CB	2.51	0.55
3:B:881:ARG:NH1	3:B:989:TYR:CB	2.70	0.55
4:D:98:ILE:HG13	4:D:114:ILE:HA	1.88	0.55
4:D:240:ARG:O	4:D:243:LEU:HB3	2.07	0.55
10:N:55:ILE:H	10:N:55:ILE:CD1	2.20	0.55
1:Q:369:PRO:HG3	1:Q:389:ARG:HA	1.88	0.55
1:Q:759:ARG:H	1:Q:779:ARG:HH21	1.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:359:ALA:O	2:G:361:GLY:N	2.38	0.55
3:R:108:GLU:OE2	3:R:108:GLU:C	2.50	0.55
3:R:707:ALA:C	3:R:709:ASP:H	2.15	0.55
3:R:978:LYS:HG2	4:S:166:TYR:HE2	1.71	0.55
4:S:21:PRO:HG2	4:S:24:PHE:HB2	1.87	0.55
4:S:182:VAL:O	4:S:184:PRO:HD3	2.06	0.55
6:U:56:ILE:HG23	6:U:69:ARG:CB	2.36	0.55
10:Y:55:ILE:H	10:Y:55:ILE:CD1	2.19	0.55
1:A:64:THR:HG22	1:A:65:LEU:H	1.71	0.55
3:B:92:TYR:OH	3:B:128:ASP:OD2	2.24	0.55
3:B:107:ILE:HG12	3:B:110:GLU:OE2	2.06	0.55
3:B:771:ASP:CG	3:B:816:PRO:HD3	2.31	0.55
4:D:18:GLU:HB2	4:D:225:LYS:HE3	1.88	0.55
5:E:147:ILE:CG1	5:E:163:THR:HB	2.37	0.55
1:Q:396:GLU:C	1:Q:398:ALA:H	2.15	0.55
1:Q:485:ASN:ND2	3:R:1039:PHE:HE2	2.02	0.55
1:Q:525:LEU:CD1	1:Q:530:VAL:HG11	2.35	0.55
1:Q:552:ILE:C	1:Q:552:ILE:HD12	2.32	0.55
1:Q:588:ILE:HA	1:Q:592:ILE:O	2.06	0.55
2:G:380:LYS:HE2	2:G:380:LYS:HA	1.87	0.55
3:R:22:GLY:O	3:R:23:LEU:C	2.49	0.55
3:R:64:ARG:H	3:R:97:TRP:CB	2.18	0.55
3:R:855:THR:C	3:R:857:GLU:H	2.12	0.55
3:R:902:LYS:HB3	10:Y:42:ARG:CD	2.35	0.55
3:R:935:LEU:HD23	10:Y:43:TYR:HB3	1.88	0.55
6:U:30:SER:HB2	6:U:34:LEU:CD1	2.36	0.55
9:X:39:SER:HB3	9:X:58:LEU:O	2.07	0.55
10:Y:22:ILE:CD1	10:Y:22:ILE:H	2.19	0.55
1:A:626:TRP:O	1:A:627:LEU:C	2.49	0.55
1:A:847:GLN:OE1	1:A:850:TYR:HA	2.05	0.55
2:C:39:LYS:O	2:C:43:VAL:HG23	2.06	0.55
2:C:133:ASP:C	2:C:135:ASP:H	2.13	0.55
2:C:253:THR:C	2:C:255:GLY:H	2.14	0.55
3:B:373:LYS:HG3	3:B:375:ARG:HB2	1.89	0.55
3:B:589:VAL:HG12	3:B:590:THR:N	2.20	0.55
3:B:781:ARG:HD3	3:B:782:GLY:N	2.12	0.55
3:B:800:PRO:HB2	11:P:38:ARG:HA	1.87	0.55
4:D:13:ILE:HG13	4:D:238:PRO:HB2	1.89	0.55
5:E:39:LEU:HD23	5:E:41:ASP:N	2.21	0.55
9:L:7:LYS:HE3	9:L:12:TYR:HE2	1.72	0.55
11:P:20:VAL:C	11:P:21:LEU:HD23	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:785:SER:C	1:Q:787:ARG:H	2.15	0.55
2:G:70:ILE:HD13	2:G:71:GLY:N	2.21	0.55
3:R:294:ASP:O	3:R:303:THR:HG23	2.06	0.55
3:R:352:SER:O	3:R:404:VAL:HG11	2.06	0.55
3:R:461:GLY:O	3:R:464:SER:HB3	2.05	0.55
3:R:1083:GLY:C	3:R:1085:LYS:N	2.64	0.55
4:S:133:LEU:HD21	4:S:139:ILE:CD1	2.37	0.55
4:S:190:LEU:N	4:S:190:LEU:HD23	2.22	0.55
8:W:50:LEU:H	8:W:50:LEU:HD12	1.72	0.55
1:A:30:PRO:HB2	1:A:244:ARG:HG3	1.87	0.55
1:A:588:ILE:HA	1:A:592:ILE:O	2.07	0.55
1:A:742:GLN:HB3	3:B:919:MET:HE1	1.88	0.55
2:C:60:SER:O	2:C:63:LEU:HB3	2.06	0.55
3:B:88:ARG:HG2	11:P:33:ILE:HD11	1.88	0.55
3:B:154:VAL:HG21	3:B:399:ALA:HB2	1.87	0.55
3:B:157:SER:O	3:B:158:GLU:CB	2.54	0.55
3:B:368:GLN:HE22	3:B:386:ARG:NE	2.04	0.55
3:B:480:ILE:HD11	3:B:550:SER:CB	2.36	0.55
3:B:764:LYS:HB3	3:B:815:SER:CB	2.36	0.55
3:B:1004:ARG:NH1	3:B:1024:GLY:HA2	2.21	0.55
4:D:170:VAL:CG2	4:D:200:GLU:HG3	2.36	0.55
5:E:171:LYS:HG2	5:E:172:LEU:N	2.21	0.55
1:Q:486:ILE:HG23	1:Q:487:ILE:HG13	1.88	0.55
1:Q:558:LYS:H	1:Q:558:LYS:CD	2.16	0.55
1:Q:838:VAL:HG13	2:G:70:ILE:HD11	1.89	0.55
2:G:349:VAL:CG2	2:G:352:LYS:HB2	2.36	0.55
3:R:373:LYS:HE2	3:R:378:LYS:HE3	1.88	0.55
3:R:662:GLN:O	3:R:663:SER:C	2.50	0.55
3:R:784:LYS:HE3	3:R:834:ASP:HB3	1.88	0.55
8:W:18:VAL:CG1	8:W:22:LEU:HD12	2.34	0.55
3:B:27:HIS:O	3:B:30:SER:HB3	2.07	0.55
3:B:691:ARG:HB3	3:B:754:PHE:CZ	2.41	0.55
3:B:702:LEU:HD13	10:N:47:ARG:HD2	1.88	0.55
3:B:855:THR:HB	3:B:857:GLU:CG	2.36	0.55
3:R:296:TYR:O	3:R:297:PHE:HB2	2.07	0.55
3:R:298:LEU:N	3:R:299:PRO:HD3	2.22	0.55
3:R:340:ASN:CG	3:R:340:ASN:O	2.50	0.55
3:R:397:ALA:O	3:R:402:ASN:HA	2.06	0.55
3:R:691:ARG:HH12	3:R:756:ARG:NH2	2.04	0.55
4:S:47:ILE:HB	4:S:140:SER:O	2.07	0.55
4:S:64:LEU:HD22	10:Y:6:ARG:HD3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:ILE:CD1	1:A:86:LEU:HD13	2.37	0.55
1:A:47:PRO:HG2	1:A:48:ARG:CD	2.37	0.55
1:A:90:ILE:CG2	1:A:208:ILE:HD11	2.37	0.55
1:A:352:ARG:HA	1:A:406:ILE:HA	1.88	0.55
1:A:537:PRO:HB2	1:A:540:LEU:CD2	2.36	0.55
3:B:247:GLU:C	3:B:249:GLN:H	2.13	0.55
3:B:1036:LEU:HD12	3:B:1045:LEU:HB2	1.87	0.55
4:D:26:ASN:O	4:D:29:ARG:HB3	2.07	0.55
4:D:134:GLY:O	4:D:135:THR:O	2.25	0.55
5:E:79:PRO:HG3	5:E:160:ILE:CD1	2.32	0.55
5:E:179:LYS:CE	6:F:81:ASP:HB2	2.35	0.55
7:H:46:ARG:O	7:H:49:ASP:HB2	2.07	0.55
11:P:37:VAL:HG22	11:P:38:ARG:H	1.71	0.55
1:Q:13:ILE:CD1	1:Q:86:LEU:HD13	2.37	0.55
1:Q:334:ILE:CD1	1:Q:628:MET:HB3	2.37	0.55
1:Q:507:TYR:HB2	1:Q:511:VAL:CG1	2.36	0.55
1:Q:724:PHE:O	1:Q:727:VAL:HB	2.06	0.55
2:G:138:LEU:O	2:G:142:ARG:HG3	2.07	0.55
2:G:301:LEU:HA	2:G:304:GLN:CG	2.37	0.55
3:R:231:GLY:O	3:R:232:ILE:HD13	2.06	0.55
3:R:530:TYR:OH	3:R:536:LEU:HG	2.07	0.55
4:S:21:PRO:HG3	9:X:79:MET:CE	2.37	0.55
5:T:145:ARG:CZ	5:T:145:ARG:HB2	2.37	0.55
5:T:145:ARG:HB2	5:T:145:ARG:NH1	2.21	0.55
6:U:51:SER:O	6:U:55:VAL:HG23	2.07	0.55
7:V:46:ARG:O	7:V:49:ASP:HB2	2.06	0.55
2:C:241:ILE:HG22	2:C:242:VAL:H	1.69	0.55
2:C:336:GLY:C	2:C:337:GLU:OE1	2.50	0.55
2:C:393:ILE:HG22	2:C:394:LEU:N	2.22	0.55
3:B:69:ARG:O	3:B:70:VAL:HG13	2.06	0.55
3:B:265:VAL:O	3:B:269:LEU:HG	2.07	0.55
3:B:813:LYS:H	3:B:836:SER:HB3	1.72	0.55
3:B:873:THR:HG22	3:B:874:ILE:H	1.71	0.55
1:Q:47:PRO:HG2	1:Q:48:ARG:CD	2.36	0.55
3:R:63:ILE:HG13	3:R:98:LEU:HB2	1.88	0.55
3:R:167:LEU:O	3:R:341:LYS:HA	2.06	0.55
3:R:380:ALA:O	3:R:383:ALA:N	2.37	0.55
3:R:655:ILE:O	3:R:658:PRO:HD3	2.06	0.55
4:S:86:THR:O	4:S:87:GLU:HB3	2.07	0.55
5:T:1:MET:HE2	6:U:11:TYR:CD2	2.42	0.55
6:U:72:LEU:HD23	6:U:86:ILE:HD13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V:43:PRO:HB2	7:V:78:TYR:O	2.06	0.55
8:W:15:PHE:O	8:W:19:PHE:HB2	2.07	0.55
1:A:301:ARG:NH1	1:A:308:ARG:NH1	2.54	0.55
1:A:409:ARG:HE	1:A:412:ILE:HG12	1.70	0.55
2:C:104:LEU:C	2:C:104:LEU:CD2	2.80	0.55
2:C:380:LYS:HE2	2:C:380:LYS:HA	1.88	0.55
3:B:34:PHE:HE1	3:B:351:ALA:HA	1.72	0.55
3:B:386:ARG:HB2	3:B:389:ILE:CD1	2.35	0.55
3:B:544:ARG:NH2	3:B:620:GLU:OE2	2.40	0.55
3:B:1087:ASN:C	3:B:1088:LEU:HG	2.32	0.55
10:N:22:ILE:N	10:N:22:ILE:CD1	2.70	0.55
1:Q:214:VAL:O	1:Q:214:VAL:HG12	2.06	0.55
1:Q:238:LYS:CE	1:Q:276:TYR:HA	2.36	0.55
1:Q:304:GLY:C	1:Q:310:ARG:HD2	2.32	0.55
1:Q:374:GLY:O	1:Q:410:HIS:HB2	2.07	0.55
1:Q:377:TYR:H	1:Q:388:LEU:CB	2.18	0.55
1:Q:567:ASN:N	1:Q:599:ASP:OD2	2.39	0.55
1:Q:872:PHE:HA	1:Q:876:VAL:HB	1.88	0.55
2:G:65:ALA:HB1	8:W:19:PHE:CZ	2.41	0.55
2:G:126:LEU:HD12	2:G:131:LYS:HA	1.89	0.55
2:G:390:MET:SD	5:T:57:GLY:C	2.90	0.55
3:R:28:LEU:C	3:R:30:SER:H	2.15	0.55
3:R:248:VAL:CG1	3:R:329:ARG:HH12	2.18	0.55
3:R:478:VAL:HA	3:R:572:SER:CB	2.37	0.55
3:R:562:PHE:N	3:R:562:PHE:CD1	2.75	0.55
3:R:906:PRO:HD3	3:R:985:PHE:CZ	2.42	0.55
3:R:965:ASP:C	3:R:967:THR:H	2.14	0.55
4:S:177:GLU:HB2	4:S:178:LYS:HZ2	1.71	0.55
5:T:147:ILE:HD11	5:T:163:THR:HB	1.88	0.55
7:V:37:ILE:O	7:V:37:ILE:HD12	2.07	0.55
9:X:5:ILE:O	9:X:5:ILE:HD13	2.07	0.55
10:Y:22:ILE:N	10:Y:22:ILE:CD1	2.70	0.55
1:A:242:ILE:HD13	1:A:273:VAL:HG22	1.88	0.54
2:C:63:LEU:HD21	8:K:23:TRP:CZ3	2.43	0.54
2:C:138:LEU:O	2:C:142:ARG:HG3	2.06	0.54
3:B:345:LEU:O	3:B:346:ALA:C	2.50	0.54
3:B:871:ILE:HG22	3:B:872:PRO:HD2	1.88	0.54
3:B:1022:ARG:O	3:B:1022:ARG:HG2	2.08	0.54
4:D:38:ILE:O	4:D:147:LEU:HD23	2.06	0.54
4:D:66:PRO:HG2	10:N:13:LEU:HD21	1.89	0.54
6:F:56:ILE:HG23	6:F:69:ARG:CB	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:L:35:ILE:O	9:L:38:VAL:HG23	2.07	0.54
11:P:26:CYS:HB2	11:P:27:PRO:CD	2.32	0.54
1:Q:4:LYS:HD2	3:R:1089:PHE:CB	2.36	0.54
1:Q:8:GLY:O	3:R:1114:VAL:HG13	2.07	0.54
1:Q:422:GLN:HA	1:Q:424:SER:N	2.22	0.54
1:Q:480:MET:HG2	3:R:1039:PHE:CD1	2.42	0.54
1:Q:572:PRO:HG2	1:Q:573:ARG:HD3	1.89	0.54
1:Q:853:ASP:CB	2:G:311:ARG:HH12	2.18	0.54
2:G:44:THR:HG22	2:G:46:ASP:OD2	2.07	0.54
3:R:183:ILE:HD13	3:R:183:ILE:H	1.72	0.54
3:R:656:PRO:HD3	3:R:881:ARG:HH21	1.71	0.54
3:R:657:TYR:HA	3:R:659:GLU:OE2	2.06	0.54
3:R:855:THR:CG2	3:R:857:GLU:HG2	2.37	0.54
3:R:1014:ARG:HD2	3:R:1095:TYR:CD1	2.43	0.54
3:R:1080:PRO:C	3:R:1081:ILE:HG13	2.32	0.54
4:S:247:LYS:HA	4:S:250:ILE:HD12	1.87	0.54
1:A:65:LEU:O	1:A:67:ASN:N	2.40	0.54
3:B:52:GLU:O	3:B:53:ILE:C	2.51	0.54
3:B:97:TRP:HZ3	3:B:113:GLU:CD	2.16	0.54
3:B:386:ARG:CB	3:B:389:ILE:HD11	2.35	0.54
3:B:971:TYR:O	3:B:973:GLY:N	2.40	0.54
3:B:1085:LYS:C	3:B:1087:ASN:H	2.16	0.54
4:D:26:ASN:O	4:D:30:ARG:HG3	2.06	0.54
1:Q:308:ARG:HG3	1:Q:312:ASN:ND2	2.21	0.54
1:Q:375:ALA:CB	1:Q:409:ARG:HA	2.37	0.54
1:Q:417:VAL:HG11	1:Q:464:LEU:HD11	1.88	0.54
1:Q:428:ILE:HG23	1:Q:452:PRO:HB2	1.88	0.54
1:Q:723:ASN:O	1:Q:724:PHE:C	2.49	0.54
1:Q:765:THR:HG21	1:Q:797:PHE:CE2	2.40	0.54
2:G:80:GLU:CB	2:G:81:PRO:HD3	2.27	0.54
2:G:358:ALA:HB2	3:R:1109:ILE:HD12	1.88	0.54
3:R:85:ALA:CB	3:R:92:TYR:HB2	2.37	0.54
3:R:97:TRP:HZ3	3:R:113:GLU:CD	2.15	0.54
4:S:226:TYR:C	4:S:227:ILE:HG13	2.30	0.54
1:A:13:ILE:HG22	1:A:13:ILE:O	2.05	0.54
1:A:336:GLU:OE2	1:A:436:ARG:HD3	2.07	0.54
1:A:656:ASP:O	1:A:659:LYS:HB2	2.07	0.54
1:A:785:SER:C	1:A:787:ARG:H	2.16	0.54
2:C:292:ILE:HD13	7:H:16:LEU:HD21	1.90	0.54
2:C:331:ARG:HB3	2:C:331:ARG:HH11	1.72	0.54
3:B:22:GLY:O	3:B:23:LEU:C	2.49	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:183:ILE:HD13	3:B:183:ILE:H	1.72	0.54
3:B:530:TYR:OH	3:B:536:LEU:HG	2.06	0.54
3:B:800:PRO:O	3:B:802:VAL:N	2.34	0.54
3:B:1047:ASP:CG	3:B:1047:ASP:O	2.50	0.54
3:B:1054:ASP:HB3	3:B:1095:TYR:H	1.72	0.54
3:B:1101:ILE:O	3:B:1105:MET:HG3	2.07	0.54
4:D:111:SER:OG	4:D:126:GLY:HA2	2.07	0.54
4:D:250:ILE:CA	4:D:253:ILE:HG22	2.37	0.54
1:Q:807:VAL:HG11	3:R:443:ARG:HH11	1.71	0.54
2:G:104:LEU:O	2:G:108:ILE:HG12	2.07	0.54
2:G:126:LEU:HD12	2:G:131:LYS:CG	2.37	0.54
2:G:241:ILE:CG2	2:G:242:VAL:H	2.21	0.54
2:G:287:GLU:OE1	7:V:67:ARG:NH2	2.40	0.54
2:G:321:THR:HB	2:G:322:ARG:HH11	1.72	0.54
2:G:354:LEU:HD13	3:R:1104:LEU:HD21	1.90	0.54
2:G:391:ARG:N	2:G:392:PRO:HD3	2.22	0.54
3:R:226:LEU:C	3:R:228:ARG:H	2.16	0.54
3:R:247:GLU:C	3:R:249:GLN:H	2.13	0.54
3:R:469:ASN:HD22	3:R:469:ASN:N	2.04	0.54
3:R:740:MET:O	3:R:891:LEU:HA	2.07	0.54
3:R:926:GLU:CD	3:R:988:VAL:HG22	2.33	0.54
3:R:972:ASP:HB3	3:R:975:THR:HG23	1.89	0.54
4:S:66:PRO:CG	10:Y:13:LEU:HD21	2.37	0.54
4:S:170:VAL:HG23	4:S:200:GLU:HG3	1.88	0.54
4:S:250:ILE:HD11	9:X:84:ILE:HD11	1.89	0.54
10:Y:60:ILE:HG23	10:Y:61:HIS:N	2.19	0.54
1:A:13:ILE:HD11	1:A:86:LEU:CD1	2.37	0.54
1:A:184:LEU:HD22	1:A:204:PRO:HB2	1.89	0.54
1:A:220:ARG:H	1:A:221:PRO:HD3	1.72	0.54
1:A:238:LYS:CE	1:A:276:TYR:HA	2.37	0.54
1:A:308:ARG:HH22	3:B:1012:LEU:HD11	1.71	0.54
1:A:447:LEU:HD13	3:B:734:MET:SD	2.47	0.54
1:A:702:ASP:O	1:A:703:THR:C	2.49	0.54
1:A:746:MET:N	1:A:785:SER:HB3	2.23	0.54
1:A:781:PHE:HD2	1:A:781:PHE:C	2.15	0.54
2:C:258:LEU:HD21	2:C:284:PHE:CE1	2.42	0.54
3:B:91:THR:HA	3:B:155:ASN:H	1.72	0.54
3:B:244:LEU:HD13	3:B:500:VAL:CG1	2.38	0.54
3:B:582:VAL:CG1	3:B:586:ASN:H	2.08	0.54
3:B:691:ARG:NH1	3:B:756:ARG:HH21	2.05	0.54
3:B:727:MET:CB	3:B:983:ILE:HD12	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:740:MET:O	3:B:891:LEU:HA	2.07	0.54
3:B:943:THR:CG2	3:B:944:PRO:HD2	2.34	0.54
3:B:950:ILE:O	3:B:952:GLN:N	2.40	0.54
4:D:158:PRO:O	4:D:233:VAL:HG22	2.08	0.54
1:Q:65:LEU:O	1:Q:67:ASN:N	2.40	0.54
1:Q:316:LYS:HE2	3:R:1054:ASP:OD2	2.06	0.54
1:Q:378:VAL:CG1	1:Q:388:LEU:HD12	2.37	0.54
1:Q:672:VAL:HG11	1:Q:776:PRO:HD3	1.89	0.54
1:Q:851:GLY:C	1:Q:853:ASP:H	2.15	0.54
2:G:361:GLY:O	2:G:362:ASP:O	2.25	0.54
3:R:104:GLU:O	3:R:105:ASN:CB	2.56	0.54
3:R:629:GLU:HB3	3:R:630:PRO:HD2	1.89	0.54
3:R:749:MET:HG2	3:R:750:TYR:HD1	1.71	0.54
8:W:71:ARG:HB2	8:W:71:ARG:NH1	2.22	0.54
1:A:64:THR:HG22	1:A:65:LEU:N	2.22	0.54
1:A:475:GLU:OE1	3:B:1043:MET:HB2	2.08	0.54
1:A:582:HIS:C	1:A:584:SER:H	2.15	0.54
1:A:763:THR:HG22	1:A:772:TYR:H	1.72	0.54
2:C:111:VAL:HG13	2:C:329:ILE:CD1	2.38	0.54
2:C:386:VAL:HG13	8:K:34:ARG:HG2	1.90	0.54
3:B:231:GLY:O	3:B:232:ILE:HD13	2.08	0.54
3:B:669:GLN:HA	3:B:669:GLN:HE21	1.71	0.54
3:B:921:LEU:O	3:B:923:GLN:N	2.41	0.54
3:B:974:ARG:O	9:L:22:HIS:HB3	2.08	0.54
3:B:1067:ILE:HG12	3:B:1068:GLY:N	2.23	0.54
3:B:1086:SER:C	3:B:1087:ASN:O	2.49	0.54
5:E:140:ASP:O	5:E:142:VAL:HG13	2.07	0.54
5:E:145:ARG:HB2	5:E:145:ARG:CZ	2.37	0.54
6:F:46:LYS:HE3	6:F:75:ILE:O	2.08	0.54
1:Q:288:LYS:HD3	1:Q:294:PRO:HG3	1.89	0.54
1:Q:312:ASN:HA	1:Q:315:GLY:O	2.08	0.54
2:G:389:THR:HG21	8:W:79:ARG:HH12	1.71	0.54
3:R:5:LEU:HA	3:R:9:GLU:OE2	2.08	0.54
3:R:298:LEU:O	3:R:300:HIS:N	2.40	0.54
3:R:727:MET:CB	3:R:983:ILE:HD12	2.37	0.54
3:R:904:VAL:HG13	10:Y:44:CYS:HB3	1.89	0.54
3:R:963:LEU:HD13	3:R:982:ARG:NH2	2.23	0.54
4:S:39:MET:N	4:S:69:SER:OG	2.40	0.54
8:W:54:ASN:ND2	8:W:58:SER:H	2.06	0.54
1:A:63:ASN:O	1:A:64:THR:O	2.25	0.54
1:A:507:TYR:O	1:A:508:LEU:CB	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:807:VAL:HG21	3:B:443:ARG:CD	2.35	0.54
2:C:70:ILE:HA	2:C:73:VAL:CG2	2.36	0.54
2:C:323:THR:HG22	2:C:323:THR:O	2.07	0.54
3:B:305:ALA:O	3:B:308:ARG:HG3	2.08	0.54
3:B:358:PHE:C	3:B:360:ALA:H	2.16	0.54
3:B:687:ARG:NH1	3:B:687:ARG:HG3	2.22	0.54
3:B:773:ILE:HG12	3:B:813:LYS:CG	2.36	0.54
3:B:800:PRO:HG2	11:P:37:VAL:CA	2.38	0.54
4:D:97:TYR:HB2	4:D:115:LYS:HB2	1.90	0.54
5:E:64:GLY:H	8:K:41:LEU:CD2	2.19	0.54
5:E:87:GLY:O	5:E:88:GLU:HB2	2.07	0.54
8:K:82:LEU:HD12	8:K:84:ASN:HB2	1.89	0.54
8:K:91:SER:OG	8:K:92:LEU:N	2.40	0.54
10:N:60:ILE:O	10:N:62:TYR:N	2.40	0.54
1:Q:326:ILE:HG21	1:Q:462:MET:HG3	1.90	0.54
1:Q:761:TYR:HB3	3:R:622:GLU:OE1	2.07	0.54
1:Q:765:THR:O	1:Q:766:LEU:HD22	2.07	0.54
3:R:139:ILE:HD12	10:Y:61:HIS:CD2	2.42	0.54
3:R:256:LEU:C	3:R:258:GLN:H	2.15	0.54
3:R:369:LEU:CD2	3:R:384:LEU:HD13	2.38	0.54
3:R:764:LYS:HB3	3:R:815:SER:HB2	1.90	0.54
3:R:974:ARG:O	9:X:22:HIS:HB3	2.07	0.54
4:S:97:TYR:HB2	4:S:115:LYS:HB2	1.89	0.54
4:S:112:LYS:C	4:S:114:ILE:H	2.15	0.54
5:T:58:ILE:N	5:T:58:ILE:HD12	2.23	0.54
5:T:171:LYS:HG2	5:T:172:LEU:N	2.23	0.54
6:U:60:SER:HB3	6:U:69:ARG:NH1	2.23	0.54
10:Y:21:PHE:O	10:Y:25:VAL:HG23	2.08	0.54
11:Z:39:LYS:O	11:Z:41:THR:N	2.40	0.54
1:A:396:GLU:C	1:A:398:ALA:H	2.15	0.54
1:A:527:VAL:CG1	1:A:530:VAL:HB	2.38	0.54
1:A:541:ALA:CB	1:A:542:PRO:CD	2.85	0.54
1:A:724:PHE:O	1:A:727:VAL:HB	2.07	0.54
1:A:728:MET:HE3	3:B:913:HIS:ND1	2.23	0.54
2:C:42:ILE:HG22	2:C:43:VAL:N	2.22	0.54
3:B:123:LEU:HD21	3:B:153:ILE:HD11	1.88	0.54
3:B:453:MET:HE3	3:B:469:ASN:O	2.07	0.54
3:B:537:ALA:HB2	3:B:557:HIS:HE2	1.67	0.54
3:B:801:GLU:HG3	11:P:38:ARG:NH2	2.22	0.54
3:B:963:LEU:HD12	3:B:967:THR:O	2.08	0.54
4:D:18:GLU:HG3	4:D:225:LYS:HG2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:31:ALA:HA	4:D:35:TYR:CD2	2.43	0.54
4:D:78:TRP:N	4:D:78:TRP:CD1	2.75	0.54
7:H:47:ALA:C	7:H:49:ASP:H	2.15	0.54
1:Q:500:GLN:O	1:Q:501:ASP:C	2.50	0.54
3:R:64:ARG:HG2	3:R:97:TRP:CG	2.43	0.54
3:R:243:SER:CB	3:R:246:PRO:HG3	2.37	0.54
3:R:265:VAL:O	3:R:269:LEU:HG	2.07	0.54
3:R:1067:ILE:HG12	3:R:1068:GLY:N	2.21	0.54
8:W:39:ARG:HH21	8:W:50:LEU:HD13	1.71	0.54
8:W:53:ILE:HG22	8:W:54:ASN:N	2.23	0.54
1:A:289:HIS:HB2	1:A:295:LEU:CD2	2.36	0.54
1:A:572:PRO:HG2	1:A:573:ARG:HD3	1.90	0.54
1:A:781:PHE:C	1:A:781:PHE:CD2	2.86	0.54
2:C:276:ASN:O	2:C:279:GLU:HB3	2.08	0.54
3:B:28:LEU:O	3:B:30:SER:N	2.34	0.54
3:B:589:VAL:O	3:B:590:THR:C	2.50	0.54
3:B:1029:GLY:O	3:B:1030:GLU:C	2.50	0.54
3:B:1077:TYR:O	3:B:1077:TYR:CD1	2.61	0.54
4:D:12:ARG:NH2	4:D:14:ASP:OD2	2.40	0.54
4:D:222:VAL:HG11	4:D:225:LYS:CD	2.37	0.54
6:F:30:SER:HB2	6:F:34:LEU:HD12	1.88	0.54
6:F:48:ASP:H	6:F:51:SER:HG	1.53	0.54
8:K:61:VAL:C	8:K:63:SER:H	2.16	0.54
11:P:22:PRO:HG2	11:P:23:GLY:H	1.72	0.54
1:Q:199:PRO:O	1:Q:200:THR:OG1	2.22	0.54
1:Q:343:ILE:HD11	3:R:1001:LEU:CD1	2.37	0.54
3:R:544:ARG:NH2	3:R:614:GLU:OE1	2.41	0.54
3:R:993:LEU:N	3:R:993:LEU:HD12	2.23	0.54
4:S:94:THR:CG2	4:S:145:LEU:HB2	2.38	0.54
4:S:117:GLU:O	4:S:119:PRO:HD3	2.08	0.54
5:T:53:THR:HG22	5:T:70:VAL:HA	1.90	0.54
5:T:174:TRP:HA	5:T:174:TRP:CE3	2.42	0.54
6:U:18:LYS:HG2	6:U:41:LEU:HB3	1.90	0.54
6:U:52:ALA:C	6:U:54:LYS:H	2.16	0.54
8:W:36:ILE:O	8:W:40:ALA:HB2	2.07	0.54
1:A:352:ARG:HD3	1:A:406:ILE:CD1	2.33	0.54
1:A:540:LEU:O	1:A:541:ALA:O	2.25	0.54
3:B:88:ARG:HB3	3:B:90:LEU:HD13	1.89	0.54
3:B:106:ASN:O	3:B:108:GLU:HG3	2.08	0.54
3:B:452:ARG:HH11	3:B:452:ARG:HG3	1.73	0.54
3:B:644:SER:C	3:B:646:ALA:H	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:662:GLN:O	3:B:663:SER:C	2.50	0.54
3:B:1064:CYS:SG	3:B:1064:CYS:O	2.65	0.54
5:E:81:VAL:O	5:E:82:GLN:HB2	2.06	0.54
5:E:117:THR:HG21	5:E:130:GLU:CG	2.38	0.54
7:H:42:LEU:HD13	7:H:79:ARG:O	2.08	0.54
1:Q:409:ARG:HE	1:Q:412:ILE:HG12	1.71	0.54
1:Q:830:LEU:HD22	1:Q:846:VAL:HG21	1.89	0.54
3:R:52:GLU:O	3:R:53:ILE:C	2.51	0.54
3:R:59:ARG:NH1	3:R:107:ILE:HD12	2.23	0.54
3:R:181:SER:O	3:R:182:ASN:HB2	2.08	0.54
3:R:198:VAL:HG12	3:R:198:VAL:O	2.08	0.54
3:R:215:PRO:O	3:R:216:ALA:HB3	2.08	0.54
3:R:324:GLU:O	3:R:325:LEU:HB2	2.06	0.54
3:R:739:ILE:O	3:R:739:ILE:HG12	2.07	0.54
3:R:764:LYS:HB3	3:R:815:SER:CB	2.38	0.54
3:R:1054:ASP:HB3	3:R:1095:TYR:N	2.23	0.54
4:S:2:SER:N	9:X:86:GLU:OE1	2.41	0.54
5:T:38:ILE:HD13	5:T:153:VAL:O	2.08	0.54
1:A:185:GLU:HA	1:A:205:GLU:HG2	1.90	0.54
1:A:308:ARG:HB2	1:A:308:ARG:HH11	1.73	0.54
1:A:692:LEU:HD12	1:A:692:LEU:H	1.73	0.54
1:A:856:PHE:CD1	1:A:858:MET:HB2	2.43	0.54
2:C:55:ALA:O	2:C:58:GLU:N	2.41	0.54
2:C:258:LEU:HB2	2:C:279:GLU:OE2	2.07	0.54
3:B:182:ASN:HD22	3:B:182:ASN:N	2.06	0.54
3:B:295:LYS:HG3	3:B:296:TYR:CD1	2.43	0.54
3:B:1036:LEU:HD13	3:B:1044:LEU:HD23	1.88	0.54
3:B:1074:LYS:CB	3:B:1076:LYS:HE2	2.31	0.54
1:Q:26:ALA:HA	1:Q:74:HIS:CE1	2.43	0.54
1:Q:276:TYR:HD2	1:Q:277:PHE:CD1	2.25	0.54
1:Q:727:VAL:O	1:Q:729:ALA:O	2.26	0.54
1:Q:833:GLU:OE2	1:Q:839:ARG:HB2	2.08	0.54
3:R:353:LEU:HA	3:R:404:VAL:HG11	1.90	0.54
3:R:677:LEU:HD12	3:R:992:LYS:HD3	1.88	0.54
3:R:683:ASN:C	3:R:685:GLN:N	2.65	0.54
3:R:814:VAL:HA	3:R:834:ASP:O	2.08	0.54
3:R:1095:TYR:CE1	3:R:1098:LYS:HD2	2.42	0.54
4:S:42:ASP:OD2	4:S:146:ARG:NE	2.38	0.54
4:S:125:SER:O	4:S:127:ASP:N	2.37	0.54
5:T:109:HIS:HD2	5:T:111:SER:OG	1.91	0.54
1:A:74:HIS:O	1:A:75:ILE:HD12	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:LEU:HD12	1:A:276:TYR:HE1	1.73	0.53
1:A:288:LYS:HD3	1:A:294:PRO:HG3	1.89	0.53
1:A:332:ILE:HD12	1:A:332:ILE:N	2.23	0.53
1:A:369:PRO:HB3	1:A:376:ASN:CB	2.28	0.53
1:A:541:ALA:HB1	1:A:542:PRO:CD	2.37	0.53
1:A:747:LEU:CD1	1:A:790:LEU:HD11	2.38	0.53
2:C:297:ILE:O	2:C:301:LEU:HG	2.08	0.53
3:B:130:ILE:HA	3:B:133:TYR:CE1	2.43	0.53
3:B:690:THR:O	3:B:691:ARG:C	2.51	0.53
3:B:910:LEU:CD2	3:B:911:ASN:N	2.71	0.53
4:D:34:LEU:O	4:D:150:GLY:N	2.41	0.53
8:K:78:ILE:O	8:K:89:LEU:HA	2.07	0.53
10:N:21:PHE:O	10:N:25:VAL:HG23	2.08	0.53
1:Q:702:ASP:O	1:Q:703:THR:C	2.51	0.53
2:G:28:ILE:HD13	8:W:14:HIS:CG	2.42	0.53
2:G:109:GLU:O	2:G:113:ALA:CA	2.56	0.53
3:R:588:LEU:HD22	3:R:612:LYS:HG2	1.90	0.53
3:R:800:PRO:HG2	11:Z:37:VAL:CA	2.37	0.53
3:R:803:GLU:HB3	3:R:805:LYS:HZ2	1.71	0.53
7:V:25:ILE:HD12	7:V:25:ILE:N	2.23	0.53
8:W:19:PHE:O	8:W:20:ILE:C	2.52	0.53
9:X:3:ILE:CD1	9:X:17:ILE:HG23	2.37	0.53
1:A:238:LYS:O	1:A:242:ILE:HG13	2.09	0.53
1:A:358:ILE:O	1:A:362:ARG:HG3	2.08	0.53
1:A:632:PHE:HA	1:A:635:PHE:CE1	2.42	0.53
1:A:763:THR:CG2	1:A:772:TYR:HA	2.39	0.53
1:A:775:SER:OG	1:A:777:GLU:HG2	2.07	0.53
2:C:103:GLY:HA2	2:C:106:ARG:HB3	1.90	0.53
2:C:109:GLU:O	2:C:113:ALA:CA	2.56	0.53
2:C:349:VAL:CG2	2:C:352:LYS:HB2	2.38	0.53
3:B:81:SER:H	3:B:84:GLU:HB2	1.74	0.53
3:B:246:PRO:O	3:B:248:VAL:N	2.35	0.53
3:B:489:LEU:HB3	3:B:494:VAL:HG21	1.89	0.53
3:B:1083:GLY:C	3:B:1085:LYS:N	2.66	0.53
5:E:145:ARG:HB2	5:E:145:ARG:NH1	2.23	0.53
6:F:18:LYS:HD2	6:F:45:GLU:HG2	1.90	0.53
6:F:31:SER:CA	6:F:35:GLN:HE21	2.20	0.53
7:H:13:ILE:HG23	7:H:14:HIS:N	2.23	0.53
11:P:16:GLU:CD	11:P:26:CYS:HB2	2.32	0.53
1:Q:297:THR:O	1:Q:298:LEU:C	2.51	0.53
1:Q:416:ILE:HG12	1:Q:477:LYS:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:540:LEU:O	1:Q:541:ALA:O	2.26	0.53
1:Q:670:VAL:HG23	1:Q:671:GLU:N	2.24	0.53
2:G:64:ILE:HG22	2:G:65:ALA:N	2.22	0.53
2:G:285:GLY:HA2	7:V:50:PRO:HD2	1.89	0.53
3:R:588:LEU:CD1	3:R:612:LYS:HB3	2.32	0.53
3:R:690:THR:O	3:R:691:ARG:C	2.51	0.53
3:R:691:ARG:NH1	3:R:756:ARG:HH21	2.06	0.53
3:R:694:LEU:C	3:R:694:LEU:HD13	2.34	0.53
3:R:737:SER:HA	3:R:886:GLY:HA3	1.90	0.53
3:R:904:VAL:CG2	10:Y:42:ARG:HE	2.21	0.53
3:R:940:VAL:HG21	3:R:953:LEU:HD11	1.90	0.53
4:S:18:GLU:HG3	4:S:225:LYS:HG2	1.90	0.53
4:S:170:VAL:CG2	4:S:200:GLU:HG3	2.39	0.53
5:T:117:THR:HG21	5:T:130:GLU:CG	2.39	0.53
7:V:15:TYR:HD2	7:V:16:LEU:HD12	1.73	0.53
7:V:44:TRP:O	7:V:79:ARG:HD3	2.07	0.53
1:A:84:VAL:O	1:A:87:VAL:HG12	2.09	0.53
1:A:539:ILE:CB	1:A:545:TYR:HB2	2.35	0.53
3:B:291:GLN:HB3	3:B:295:LYS:CE	2.38	0.53
3:B:419:TRP:HZ3	3:B:712:GLY:CA	2.21	0.53
3:B:906:PRO:HD3	3:B:985:PHE:CZ	2.42	0.53
3:B:1069:TRP:CD1	3:B:1088:LEU:HD13	2.42	0.53
7:H:38:ARG:HG2	7:H:38:ARG:NH1	2.23	0.53
8:K:53:ILE:HG22	8:K:54:ASN:N	2.22	0.53
1:Q:238:LYS:HZ3	1:Q:297:THR:HB	1.63	0.53
1:Q:358:ILE:HD12	1:Q:403:PRO:HD3	1.91	0.53
1:Q:552:ILE:C	1:Q:554:ALA:H	2.15	0.53
1:Q:582:HIS:C	1:Q:584:SER:H	2.15	0.53
1:Q:763:THR:HG22	1:Q:772:TYR:H	1.71	0.53
2:G:24:LEU:N	2:G:25:PRO:HD2	2.24	0.53
2:G:392:PRO:O	2:G:393:ILE:O	2.26	0.53
3:R:153:ILE:HG22	3:R:153:ILE:O	2.07	0.53
3:R:198:VAL:N	3:R:199:PRO:CD	2.71	0.53
3:R:680:TYR:CE2	3:R:692:ALA:HB1	2.43	0.53
3:R:696:HIS:CG	4:S:57:ILE:HD11	2.42	0.53
3:R:804:VAL:HG23	3:R:847:VAL:HG23	1.90	0.53
3:R:926:GLU:HB3	3:R:988:VAL:HG22	1.90	0.53
3:R:1047:ASP:CG	3:R:1047:ASP:O	2.51	0.53
3:R:1061:CYS:N	3:R:1088:LEU:HD23	2.24	0.53
4:S:34:LEU:O	4:S:150:GLY:N	2.40	0.53
4:S:216:SER:C	4:S:217:ILE:HD12	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:81:VAL:O	5:T:82:GLN:HB2	2.09	0.53
1:A:838:VAL:HG13	2:C:70:ILE:HD11	1.91	0.53
2:C:120:PRO:CB	2:C:256:SER:HB3	2.37	0.53
2:C:349:VAL:HG13	2:C:353:HIS:CD2	2.44	0.53
3:B:63:ILE:HG13	3:B:98:LEU:HB2	1.90	0.53
3:B:85:ALA:CB	3:B:92:TYR:HB2	2.39	0.53
3:B:541:ARG:NH2	3:B:557:HIS:HD2	2.06	0.53
3:B:557:HIS:ND1	3:B:566:VAL:HG13	2.23	0.53
3:B:558:ILE:HG12	3:B:567:HIS:HD2	1.72	0.53
3:B:657:TYR:HA	3:B:659:GLU:OE2	2.07	0.53
3:B:895:VAL:HG11	4:D:34:LEU:CD2	2.39	0.53
4:D:16:VAL:HG13	4:D:167:TYR:CE1	2.44	0.53
4:D:42:ASP:OD2	4:D:146:ARG:NE	2.39	0.53
4:D:68:MET:HE3	4:D:124:ILE:CG2	2.37	0.53
4:D:169:LYS:O	4:D:219:ILE:HA	2.08	0.53
1:Q:220:ARG:N	1:Q:221:PRO:CD	2.70	0.53
1:Q:417:VAL:CG1	1:Q:464:LEU:CD1	2.86	0.53
1:Q:537:PRO:HB2	1:Q:540:LEU:CD2	2.38	0.53
1:Q:647:ARG:NH2	4:S:211:ARG:HH12	2.07	0.53
2:G:64:ILE:CG2	2:G:65:ALA:N	2.72	0.53
2:G:374:ILE:HG22	2:G:375:ILE:N	2.22	0.53
3:R:134:THR:O	3:R:135:LEU:C	2.50	0.53
3:R:188:LYS:HA	3:R:203:GLU:O	2.09	0.53
3:R:214:PHE:HZ	3:R:297:PHE:CA	2.20	0.53
3:R:480:ILE:HD11	3:R:550:SER:CB	2.38	0.53
4:S:13:ILE:CG1	4:S:238:PRO:HB2	2.37	0.53
4:S:96:ILE:HG22	4:S:116:SER:HA	1.90	0.53
1:A:18:GLU:O	1:A:22:MET:HB3	2.09	0.53
1:A:220:ARG:N	1:A:221:PRO:CD	2.72	0.53
1:A:245:ILE:CD1	1:A:268:LEU:HD13	2.38	0.53
1:A:878:TRP:CE2	3:R:377:ARG:HD3	2.44	0.53
2:C:238:LYS:O	2:C:239:ARG:HB2	2.07	0.53
3:B:737:SER:HA	3:B:886:GLY:HA3	1.89	0.53
3:B:739:ILE:O	3:B:739:ILE:HG12	2.08	0.53
3:B:1054:ASP:HB3	3:B:1095:TYR:N	2.24	0.53
6:F:41:LEU:C	6:F:43:SER:H	2.15	0.53
8:K:46:GLY:O	8:K:47:ALA:O	2.26	0.53
11:P:42:ILE:HG23	11:P:42:ILE:O	2.09	0.53
1:Q:489:PRO:CA	1:Q:858:MET:HG3	2.37	0.53
1:Q:539:ILE:CB	1:Q:545:TYR:HB2	2.36	0.53
2:G:57:LYS:HA	2:G:57:LYS:CE	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:88:ARG:HB3	3:R:90:LEU:HD13	1.91	0.53
3:R:747:ARG:HD3	10:Y:8:PHE:HA	1.91	0.53
3:R:958:LEU:HD23	3:R:958:LEU:C	2.34	0.53
3:R:1081:ILE:HG21	3:R:1085:LYS:HZ3	1.71	0.53
4:S:107:ARG:N	4:S:133:LEU:O	2.32	0.53
6:U:49:ALA:O	6:U:53:GLN:HB2	2.09	0.53
6:U:55:VAL:O	6:U:59:LEU:HB2	2.08	0.53
10:Y:22:ILE:HD13	10:Y:22:ILE:H	1.73	0.53
1:A:331:ASN:O	1:A:332:ILE:CB	2.47	0.53
1:A:387:ASP:CG	1:A:388:LEU:N	2.66	0.53
2:C:55:ALA:C	2:C:57:LYS:N	2.64	0.53
2:C:388:LEU:CD1	8:K:34:ARG:HG3	2.38	0.53
3:B:167:LEU:HD12	3:B:190:ILE:HD12	1.90	0.53
3:B:356:VAL:HG13	3:B:357:ALA:N	2.24	0.53
3:B:1046:LYS:NZ	3:B:1051:ASP:OD2	2.38	0.53
3:B:1061:CYS:HB2	3:B:1079:CYS:SG	2.49	0.53
4:D:195:LEU:O	4:D:196:SER:O	2.26	0.53
7:H:15:TYR:HD2	7:H:16:LEU:HD12	1.74	0.53
8:K:50:LEU:H	8:K:50:LEU:HD12	1.73	0.53
8:K:70:ARG:C	8:K:72:GLY:N	2.67	0.53
1:Q:87:VAL:HG13	1:Q:88:LYS:H	1.73	0.53
1:Q:206:TRP:CZ3	3:R:1108:ILE:HG21	2.44	0.53
1:Q:249:LEU:HD12	1:Q:269:LEU:HD11	1.91	0.53
1:Q:308:ARG:HB2	1:Q:308:ARG:HH11	1.73	0.53
1:Q:475:GLU:OE1	3:R:1043:MET:N	2.40	0.53
2:G:238:LYS:O	2:G:239:ARG:HB2	2.08	0.53
2:G:390:MET:HG3	5:T:56:GLU:HG2	1.89	0.53
3:R:537:ALA:HB1	3:R:541:ARG:CZ	2.38	0.53
3:R:768:GLY:O	3:R:769:GLN:HB2	2.08	0.53
3:R:895:VAL:HG11	4:S:34:LEU:CG	2.39	0.53
3:R:975:THR:O	4:S:26:ASN:ND2	2.41	0.53
3:R:978:LYS:HZ1	4:S:205:LEU:HD13	1.73	0.53
4:S:78:TRP:N	4:S:78:TRP:CD1	2.76	0.53
4:S:153:HIS:O	4:S:155:LYS:N	2.36	0.53
5:T:174:TRP:HA	5:T:174:TRP:HE3	1.73	0.53
6:U:23:ASP:O	6:U:26:ARG:HB2	2.09	0.53
9:X:61:GLY:O	9:X:62:SER:C	2.51	0.53
1:A:237:HIS:HE1	1:A:290:ARG:HH21	1.57	0.53
1:A:532:ILE:HD12	9:L:12:TYR:OH	2.09	0.53
1:A:664:GLU:OE2	1:A:667:ARG:HD3	2.09	0.53
1:A:820:GLN:O	1:A:824:ILE:HG12	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:70:ILE:HD13	2:C:71:GLY:N	2.24	0.53
3:B:134:THR:HG22	3:B:137:LYS:HG3	1.89	0.53
3:B:904:VAL:HG21	10:N:42:ARG:HG2	1.89	0.53
4:D:117:GLU:O	4:D:119:PRO:HD3	2.08	0.53
5:E:87:GLY:HA2	6:F:40:TYR:HE1	1.73	0.53
5:E:168:TYR:O	5:E:175:ILE:HD13	2.09	0.53
6:F:52:ALA:C	6:F:54:LYS:H	2.16	0.53
9:L:38:VAL:O	9:L:40:PHE:N	2.42	0.53
1:Q:402:ALA:O	1:Q:403:PRO:C	2.51	0.53
3:R:91:THR:HA	3:R:155:ASN:H	1.73	0.53
3:R:167:LEU:HD12	3:R:190:ILE:HD12	1.91	0.53
3:R:1022:ARG:O	3:R:1022:ARG:HG2	2.08	0.53
3:R:1029:GLY:O	3:R:1030:GLU:C	2.52	0.53
4:S:3:ILE:CD1	9:X:83:TYR:HA	2.39	0.53
4:S:80:GLU:O	4:S:83:ILE:HB	2.09	0.53
5:T:102:GLY:HA2	6:U:40:TYR:CB	2.39	0.53
7:V:42:LEU:HD13	7:V:79:ARG:O	2.08	0.53
8:W:43:LEU:C	8:W:45:MET:H	2.16	0.53
9:X:38:VAL:O	9:X:40:PHE:N	2.42	0.53
9:X:92:LYS:N	9:X:92:LYS:HD2	2.24	0.53
1:A:369:PRO:HG3	1:A:389:ARG:HA	1.90	0.53
1:A:402:ALA:O	1:A:403:PRO:C	2.50	0.53
1:A:656:ASP:HA	1:A:659:LYS:CD	2.39	0.53
1:A:872:PHE:HA	1:A:876:VAL:CG2	2.39	0.53
3:B:102:PRO:C	3:B:108:GLU:OE1	2.52	0.53
3:B:282:ARG:HD3	3:B:285:ARG:CD	2.39	0.53
3:B:286:ILE:O	3:B:289:ALA:HB3	2.09	0.53
4:D:21:PRO:HG3	9:L:79:MET:CE	2.39	0.53
4:D:216:SER:C	4:D:217:ILE:HD12	2.32	0.53
5:E:141:LYS:HB2	5:E:172:LEU:CD1	2.38	0.53
6:F:55:VAL:O	6:F:59:LEU:HB2	2.08	0.53
7:H:42:LEU:HD22	7:H:79:ARG:O	2.09	0.53
9:L:3:ILE:CD1	9:L:17:ILE:HG23	2.38	0.53
11:P:8:LYS:HD3	11:P:13:PHE:HB3	1.91	0.53
1:Q:352:ARG:HA	1:Q:406:ILE:HA	1.91	0.53
1:Q:377:TYR:CE1	1:Q:385:ARG:HG2	2.43	0.53
1:Q:637:ARG:HD3	1:Q:640:GLU:OE1	2.08	0.53
2:G:30:ASP:O	2:G:31:ASP:HB3	2.09	0.53
2:G:109:GLU:O	2:G:113:ALA:N	2.41	0.53
3:R:52:GLU:CB	3:R:56:LEU:HB3	2.38	0.53
3:R:220:LYS:O	3:R:275:ARG:NH1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:325:LEU:O	3:R:326:TYR:C	2.51	0.53
3:R:520:VAL:C	3:R:521:ILE:HD12	2.34	0.53
3:R:592:GLU:O	3:R:596:LYS:HG3	2.09	0.53
3:R:952:GLN:O	3:R:953:LEU:C	2.51	0.53
3:R:1061:CYS:HA	3:R:1088:LEU:HD23	1.91	0.53
3:R:1077:TYR:O	3:R:1077:TYR:CD1	2.62	0.53
3:R:1086:SER:C	3:R:1087:ASN:O	2.50	0.53
4:S:33:MET:O	4:S:150:GLY:HA3	2.09	0.53
5:T:88:GLU:H	5:T:99:VAL:CG1	2.22	0.53
5:T:134:LYS:HD3	5:T:174:TRP:HE1	1.74	0.53
10:Y:13:LEU:O	10:Y:14:ILE:HD13	2.08	0.53
1:A:342:ILE:HD13	1:A:342:ILE:N	2.24	0.53
1:A:345:LYS:HG2	1:A:410:HIS:CD2	2.44	0.53
1:A:607:GLN:O	1:A:609:GLU:N	2.42	0.53
1:A:667:ARG:HG2	1:A:667:ARG:HH11	1.74	0.53
1:A:820:GLN:HA	1:A:823:LEU:HD11	1.90	0.53
1:A:828:SER:O	1:A:830:LEU:N	2.37	0.53
2:C:135:ASP:C	2:C:137:ALA:H	2.17	0.53
2:C:238:LYS:C	2:C:239:ARG:HD3	2.33	0.53
2:C:287:GLU:OE1	7:H:67:ARG:NH2	2.41	0.53
3:B:104:GLU:O	3:B:105:ASN:CB	2.57	0.53
3:B:461:GLY:O	3:B:464:SER:HB3	2.09	0.53
3:B:474:ALA:HB2	3:B:578:PRO:HG3	1.91	0.53
3:B:555:VAL:CG2	3:B:568:VAL:HG22	2.39	0.53
3:B:1061:CYS:HB3	3:B:1065:GLY:CA	2.39	0.53
6:F:23:ASP:O	6:F:26:ARG:HB2	2.09	0.53
7:H:65:ILE:N	7:H:65:ILE:CD1	2.72	0.53
1:Q:249:LEU:HD21	1:Q:265:LEU:CB	2.39	0.53
1:Q:365:VAL:HG11	1:Q:401:LEU:CD1	2.30	0.53
1:Q:469:SER:O	1:Q:473:ILE:HG13	2.09	0.53
1:Q:825:ASN:O	1:Q:828:SER:HB3	2.08	0.53
2:G:55:ALA:HA	2:G:58:GLU:CD	2.33	0.53
2:G:238:LYS:C	2:G:239:ARG:HD3	2.33	0.53
2:G:253:THR:C	2:G:255:GLY:H	2.17	0.53
3:R:5:LEU:HD13	3:R:5:LEU:N	2.23	0.53
3:R:555:VAL:CG2	3:R:568:VAL:HG22	2.38	0.53
3:R:669:GLN:HA	3:R:669:GLN:HE21	1.73	0.53
3:R:725:ALA:CB	3:R:906:PRO:HB3	2.38	0.53
8:W:77:THR:HG23	8:W:90:LEU:O	2.08	0.53
10:Y:7:CYS:CB	10:Y:45:CYS:SG	2.96	0.53
1:A:26:ALA:HA	1:A:74:HIS:CE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:451:PRO:HG2	1:A:605:ASN:OD1	2.09	0.53
1:A:575:CYS:SG	1:A:584:SER:HB3	2.49	0.53
1:A:728:MET:HE1	3:B:913:HIS:HA	1.87	0.53
2:C:368:GLY:O	2:C:372:ASN:HB2	2.08	0.53
3:B:64:ARG:N	3:B:97:TRP:HB2	2.24	0.53
3:B:419:TRP:HZ3	3:B:712:GLY:C	2.17	0.53
3:B:592:GLU:O	3:B:596:LYS:HG3	2.08	0.53
3:B:628:LEU:H	3:B:628:LEU:CD2	2.08	0.53
3:B:853:THR:OG1	11:P:33:ILE:HD13	2.08	0.53
3:B:926:GLU:CD	3:B:988:VAL:HG22	2.34	0.53
3:B:1070:TYR:O	3:B:1071:ASP:C	2.51	0.53
7:H:69:SER:HB2	7:H:75:VAL:CG2	2.38	0.53
11:P:6:CYS:O	11:P:37:VAL:HG12	2.09	0.53
1:Q:93:PHE:CE2	1:Q:204:PRO:HB3	2.44	0.53
1:Q:607:GLN:O	1:Q:608:PRO:C	2.52	0.53
1:Q:649:GLU:HA	1:Q:652:SER:OG	2.09	0.53
1:Q:819:MET:HA	1:Q:822:ARG:HE	1.74	0.53
1:Q:828:SER:O	1:Q:830:LEU:N	2.39	0.53
2:G:42:ILE:HG22	2:G:43:VAL:N	2.23	0.53
3:R:14:ILE:HG23	3:R:15:GLU:N	2.24	0.53
3:R:92:TYR:OH	3:R:128:ASP:OD2	2.26	0.53
3:R:234:THR:O	3:R:237:ASP:HB2	2.09	0.53
3:R:341:LYS:HZ2	3:R:341:LYS:HB3	1.74	0.53
3:R:355:ARG:HH11	3:R:355:ARG:CB	2.19	0.53
3:R:433:LEU:HD12	3:R:435:ARG:HH22	1.71	0.53
3:R:545:ARG:CZ	3:R:581:ILE:HG21	2.39	0.53
3:R:1069:TRP:NE1	3:R:1088:LEU:HD13	2.23	0.53
4:S:66:PRO:HG2	10:Y:13:LEU:HD11	1.91	0.53
4:S:80:GLU:HA	4:S:83:ILE:CD1	2.39	0.53
6:U:47:CYS:HB2	6:U:52:ALA:HB2	1.90	0.53
2:C:115:LYS:O	2:C:115:LYS:HG3	2.08	0.52
3:B:198:VAL:N	3:B:199:PRO:CD	2.73	0.52
3:B:854:GLU:HG3	11:P:24:VAL:HG11	1.90	0.52
3:B:904:VAL:HG21	10:N:42:ARG:NE	2.20	0.52
3:B:978:LYS:HG2	4:D:166:TYR:HE2	1.75	0.52
3:B:1074:LYS:HB2	3:B:1076:LYS:HG3	1.91	0.52
4:D:174:ALA:O	4:D:195:LEU:HD13	2.08	0.52
6:F:18:LYS:HG2	6:F:41:LEU:HB3	1.90	0.52
8:K:90:LEU:N	8:K:90:LEU:CD2	2.56	0.52
9:L:5:ILE:O	9:L:5:ILE:HD13	2.10	0.52
9:L:64:THR:CG2	9:L:65:PRO:HD2	2.32	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:184:LEU:HD22	1:Q:204:PRO:HB2	1.90	0.52
1:Q:279:ASN:HB2	1:Q:297:THR:HG21	1.92	0.52
2:G:38:ASN:N	2:G:38:ASN:ND2	2.56	0.52
2:G:120:PRO:CA	2:G:275:ASN:ND2	2.67	0.52
2:G:382:GLY:C	2:G:384:GLY:H	2.16	0.52
2:G:390:MET:CE	5:T:58:ILE:C	2.82	0.52
3:R:27:HIS:O	3:R:30:SER:HB3	2.09	0.52
3:R:305:ALA:O	3:R:308:ARG:HG3	2.08	0.52
3:R:895:VAL:HG11	4:S:34:LEU:CD2	2.39	0.52
3:R:898:PRO:HB2	3:R:970:VAL:HG21	1.91	0.52
3:R:1041:THR:HG23	3:R:1041:THR:O	2.08	0.52
4:S:38:ILE:O	4:S:147:LEU:HD23	2.09	0.52
4:S:98:ILE:HB	4:S:141:LEU:HD11	1.90	0.52
4:S:237:LYS:O	4:S:240:ARG:HB3	2.08	0.52
5:T:77:TYR:O	5:T:78:VAL:HG23	2.09	0.52
5:T:123:VAL:C	5:T:125:GLY:N	2.65	0.52
1:A:308:ARG:NH2	3:B:1012:LEU:HD11	2.23	0.52
1:A:335:ASP:OD1	1:A:482:VAL:HB	2.09	0.52
1:A:648:LEU:HD23	1:A:648:LEU:C	2.34	0.52
2:C:352:LYS:O	2:C:354:LEU:N	2.42	0.52
3:B:537:ALA:CB	3:B:557:HIS:NE2	2.66	0.52
4:D:39:MET:N	4:D:69:SER:OG	2.42	0.52
5:E:46:LEU:HD11	5:E:77:TYR:HB2	1.91	0.52
1:Q:728:MET:HE1	3:R:913:HIS:HA	1.88	0.52
1:Q:743:MET:HG3	3:R:919:MET:CE	2.39	0.52
2:G:111:VAL:HG13	2:G:329:ILE:CD1	2.38	0.52
2:G:115:LYS:O	2:G:115:LYS:HG3	2.08	0.52
3:R:64:ARG:HB2	3:R:97:TRP:CD1	2.43	0.52
3:R:590:THR:O	3:R:593:ASP:HB2	2.10	0.52
3:R:620:GLU:C	3:R:622:GLU:N	2.64	0.52
3:R:771:ASP:CG	3:R:816:PRO:HD3	2.34	0.52
3:R:855:THR:HB	3:R:857:GLU:CG	2.39	0.52
4:S:240:ARG:O	4:S:243:LEU:HB3	2.09	0.52
5:T:123:VAL:C	5:T:125:GLY:H	2.17	0.52
6:U:16:VAL:C	6:U:18:LYS:N	2.67	0.52
1:A:301:ARG:O	1:A:302:LEU:CG	2.56	0.52
1:A:759:ARG:H	1:A:779:ARG:HH21	1.56	0.52
1:A:807:VAL:HG13	3:B:443:ARG:NH1	2.24	0.52
1:A:856:PHE:HB3	1:A:859:TYR:CD1	2.43	0.52
1:A:859:TYR:HB2	2:C:64:ILE:HG13	1.91	0.52
2:C:383:THR:O	5:E:61:PHE:HZ	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:17:TYR:HB2	3:B:604:PHE:CD1	2.45	0.52
3:B:165:GLU:O	3:B:432:SER:HB2	2.09	0.52
3:B:174:VAL:HG11	3:B:325:LEU:HD23	1.90	0.52
3:B:181:SER:O	3:B:182:ASN:HB2	2.09	0.52
3:B:184:THR:N	3:B:207:ASP:O	2.42	0.52
3:B:380:ALA:O	3:B:383:ALA:N	2.42	0.52
3:B:432:SER:O	3:B:435:ARG:NE	2.43	0.52
3:B:589:VAL:C	3:B:591:ILE:HD12	2.34	0.52
3:B:935:LEU:HD23	10:N:43:TYR:HB3	1.91	0.52
4:D:98:ILE:HB	4:D:141:LEU:HD11	1.91	0.52
4:D:165:ARG:HE	4:D:227:ILE:HB	1.74	0.52
6:F:30:SER:OG	6:F:31:SER:N	2.42	0.52
7:H:43:PRO:HB2	7:H:78:TYR:O	2.09	0.52
1:Q:203:ARG:HG3	1:Q:203:ARG:NH1	2.16	0.52
1:Q:206:TRP:CH2	3:R:1108:ILE:HG21	2.45	0.52
1:Q:409:ARG:HH21	1:Q:412:ILE:CG1	2.22	0.52
1:Q:648:LEU:HD23	1:Q:648:LEU:C	2.33	0.52
1:Q:696:LEU:HD13	1:Q:696:LEU:C	2.34	0.52
1:Q:856:PHE:HD1	1:Q:858:MET:HB2	1.73	0.52
1:Q:872:PHE:CD2	1:Q:876:VAL:HG21	2.43	0.52
2:G:132:ARG:HA	2:G:249:TYR:HD1	1.71	0.52
2:G:288:ALA:HA	7:V:16:LEU:O	2.10	0.52
3:R:193:THR:HG21	3:R:197:ARG:N	2.24	0.52
3:R:196:TYR:CE2	3:R:303:THR:HG21	2.44	0.52
3:R:582:VAL:CG1	3:R:586:ASN:H	2.08	0.52
3:R:644:SER:C	3:R:646:ALA:H	2.15	0.52
3:R:840:ARG:HH11	3:R:1021:ALA:HB2	1.73	0.52
3:R:1061:CYS:HB2	3:R:1079:CYS:SG	2.49	0.52
3:R:1070:TYR:O	3:R:1071:ASP:C	2.53	0.52
4:S:30:ARG:NH1	9:X:21:ASP:OD1	2.42	0.52
4:S:106:PRO:HA	4:S:134:GLY:HA2	1.90	0.52
4:S:206:CYS:O	4:S:207:GLU:CB	2.57	0.52
6:U:30:SER:HB2	6:U:34:LEU:HD12	1.90	0.52
6:U:46:LYS:HE3	6:U:75:ILE:O	2.10	0.52
10:Y:35:LEU:O	10:Y:38:LEU:O	2.27	0.52
1:A:52:ILE:HD13	1:A:52:ILE:H	1.74	0.52
1:A:734:ARG:HG3	3:B:917:SER:HB3	1.92	0.52
2:C:311:ARG:NH1	7:H:71:LEU:HD13	2.24	0.52
2:C:374:ILE:HG22	2:C:375:ILE:N	2.23	0.52
2:C:386:VAL:HG21	8:K:31:GLU:HA	1.91	0.52
3:B:18:PHE:C	3:B:20:SER:H	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:112:GLU:O	3:B:114:VAL:HG23	2.10	0.52
3:B:193:THR:HG1	3:B:198:VAL:HA	1.74	0.52
3:B:551:ASP:OD2	3:B:551:ASP:N	2.42	0.52
3:B:658:PRO:C	3:B:660:HIS:N	2.67	0.52
3:B:930:GLY:HA2	10:N:47:ARG:NH2	2.24	0.52
3:B:950:ILE:O	3:B:951:GLU:C	2.52	0.52
4:D:80:GLU:O	4:D:83:ILE:HB	2.10	0.52
4:D:160:SER:HB3	4:D:233:VAL:HG12	1.90	0.52
5:E:123:VAL:C	5:E:125:GLY:N	2.65	0.52
5:E:174:TRP:CE3	5:E:174:TRP:HA	2.44	0.52
9:L:24:LEU:O	9:L:28:ILE:HG12	2.09	0.52
1:Q:49:LEU:HD22	1:Q:71:HIS:O	2.09	0.52
1:Q:354:THR:O	1:Q:355:PRO:O	2.28	0.52
1:Q:414:GLY:HA2	1:Q:434:ARG:NE	2.24	0.52
1:Q:607:GLN:O	1:Q:609:GLU:N	2.42	0.52
1:Q:761:TYR:O	3:R:622:GLU:OE1	2.28	0.52
2:G:337:GLU:OE2	2:G:339:ASN:ND2	2.42	0.52
2:G:368:GLY:O	2:G:372:ASN:HB2	2.10	0.52
3:R:94:ALA:O	3:R:119:LEU:N	2.43	0.52
3:R:446:HIS:O	3:R:447:GLY:C	2.51	0.52
3:R:643:TRP:CZ3	3:R:645:PRO:HB2	2.44	0.52
3:R:852:ILE:HD12	11:Z:35:PHE:HA	1.91	0.52
3:R:871:ILE:HG22	3:R:872:PRO:HD2	1.90	0.52
3:R:1059:TYR:CD2	3:R:1090:PRO:HG3	2.44	0.52
4:S:159:VAL:HG23	4:S:231:GLU:C	2.35	0.52
5:T:17:GLU:CB	5:T:20:LYS:HD2	2.39	0.52
1:A:420:ASN:HD22	1:A:421:ARG:N	2.07	0.52
1:A:558:LYS:HE3	3:R:106:ASN:H	1.74	0.52
1:A:563:HIS:CD2	1:A:587:VAL:HG13	2.44	0.52
2:C:392:PRO:HB3	5:E:22:LEU:CD1	2.37	0.52
3:B:64:ARG:H	3:B:97:TRP:CB	2.22	0.52
3:B:221:ILE:CG2	3:B:226:LEU:HG	2.30	0.52
3:B:309:LYS:C	3:B:311:LYS:H	2.17	0.52
3:B:462:PRO:C	3:B:464:SER:H	2.17	0.52
3:B:530:TYR:CD2	3:B:530:TYR:O	2.62	0.52
3:B:620:GLU:C	3:B:622:GLU:N	2.66	0.52
3:B:869:LEU:HD11	4:D:56:GLU:CB	2.32	0.52
4:D:172:ILE:HG21	4:D:195:LEU:HD13	1.90	0.52
5:E:113:ILE:O	5:E:164:MET:HB2	2.09	0.52
6:F:14:TYR:HD1	6:F:14:TYR:H	1.57	0.52
6:F:78:THR:HB	6:F:82:GLU:OE2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:249:LEU:HD21	1:Q:265:LEU:HB2	1.90	0.52
2:G:42:ILE:H	2:G:42:ILE:CD1	2.21	0.52
2:G:311:ARG:HH11	2:G:311:ARG:HG3	1.74	0.52
3:R:683:ASN:C	3:R:685:GLN:H	2.17	0.52
3:R:797:VAL:CG1	11:Z:36:MET:HE1	2.40	0.52
3:R:834:ASP:O	3:R:835:THR:HB	2.10	0.52
4:S:38:ILE:HD12	4:S:39:MET:C	2.34	0.52
4:S:133:LEU:HD21	4:S:139:ILE:HD11	1.91	0.52
4:S:250:ILE:O	4:S:254:GLU:HB2	2.10	0.52
1:A:94:LEU:HD11	1:A:180:ILE:HG23	1.91	0.52
1:A:212:LEU:CD2	1:A:242:ILE:HD13	2.40	0.52
1:A:294:PRO:O	1:A:295:LEU:C	2.52	0.52
1:A:500:GLN:O	1:A:501:ASP:C	2.51	0.52
1:A:791:LYS:HB2	1:A:794:GLU:HG3	1.91	0.52
3:B:222:PRO:HD2	3:B:225:ILE:HD12	1.90	0.52
3:B:391:THR:O	3:B:394:ILE:HG22	2.09	0.52
3:B:717:PRO:HD3	10:N:53:VAL:HG11	1.92	0.52
3:B:958:LEU:C	3:B:958:LEU:HD23	2.34	0.52
3:B:1014:ARG:HG3	3:B:1095:TYR:CE2	2.43	0.52
5:E:127:ILE:H	5:E:136:ILE:HB	1.74	0.52
8:K:43:LEU:C	8:K:45:MET:H	2.18	0.52
10:N:21:PHE:CZ	10:N:38:LEU:HD13	2.44	0.52
1:Q:417:VAL:CG1	1:Q:464:LEU:HD13	2.39	0.52
2:G:42:ILE:HD12	2:G:42:ILE:N	2.25	0.52
3:R:112:GLU:O	3:R:114:VAL:HG23	2.09	0.52
3:R:407:ARG:NH2	3:R:433:LEU:HG	2.24	0.52
3:R:544:ARG:NH2	3:R:620:GLU:OE2	2.43	0.52
5:T:114:THR:C	5:T:165:ARG:HE	2.18	0.52
1:A:420:ASN:ND2	1:A:421:ARG:N	2.58	0.52
1:A:465:HIS:HD2	3:B:1048:ARG:HD2	1.75	0.52
1:A:727:VAL:O	1:A:728:MET:C	2.52	0.52
1:A:785:SER:H	1:A:788:THR:HB	1.75	0.52
2:C:38:ASN:N	2:C:38:ASN:ND2	2.57	0.52
2:C:65:ALA:HB1	8:K:19:PHE:CZ	2.45	0.52
2:C:331:ARG:HH11	2:C:331:ARG:CB	2.22	0.52
2:C:390:MET:CE	5:E:58:ILE:C	2.83	0.52
3:B:358:PHE:C	3:B:360:ALA:N	2.65	0.52
3:B:591:ILE:HD11	3:B:612:LYS:HZ3	1.75	0.52
3:B:625:TYR:N	3:B:625:TYR:CD1	2.78	0.52
3:B:680:TYR:CE2	3:B:692:ALA:HB1	2.45	0.52
3:B:956:GLU:C	3:B:958:LEU:H	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:69:SER:HB2	4:D:236:LEU:HD11	1.91	0.52
1:Q:206:TRP:C	1:Q:208:ILE:H	2.18	0.52
1:Q:319:ASP:HB3	3:R:1005:ALA:O	2.10	0.52
1:Q:372:TRP:HB3	1:Q:373:PRO:HD3	1.91	0.52
1:Q:468:GLN:HB2	3:R:1047:ASP:OD2	2.10	0.52
1:Q:507:TYR:O	1:Q:508:LEU:HB2	2.08	0.52
1:Q:687:ILE:CG1	1:Q:695:SER:HB3	2.40	0.52
1:Q:739:ASN:HB2	3:R:919:MET:SD	2.49	0.52
1:Q:763:THR:CG2	1:Q:772:TYR:HA	2.40	0.52
3:R:291:GLN:HB3	3:R:295:LYS:CE	2.39	0.52
3:R:708:LEU:CD1	3:R:713:TYR:HB3	2.38	0.52
3:R:799:SER:O	3:R:802:VAL:HG23	2.10	0.52
4:S:133:LEU:HD21	4:S:139:ILE:HG12	1.90	0.52
4:S:172:ILE:HD12	4:S:172:ILE:N	2.25	0.52
4:S:203:CYS:O	4:S:204:THR:HG23	2.09	0.52
5:T:39:LEU:HD23	5:T:41:ASP:N	2.24	0.52
9:X:8:SER:HB2	9:X:13:LEU:CD1	2.39	0.52
1:A:6:ILE:HD13	3:B:1113:LEU:HD22	1.91	0.52
1:A:304:GLY:C	1:A:310:ARG:HD2	2.35	0.52
1:A:374:GLY:O	1:A:410:HIS:HB2	2.10	0.52
1:A:428:ILE:HG23	1:A:452:PRO:HB2	1.92	0.52
1:A:830:LEU:HD22	1:A:846:VAL:HG21	1.91	0.52
2:C:132:ARG:HH11	2:C:132:ARG:HG3	1.75	0.52
2:C:327:ARG:CZ	2:C:334:VAL:HG23	2.39	0.52
3:B:64:ARG:HG2	3:B:97:TRP:CG	2.45	0.52
3:B:81:SER:O	3:B:84:GLU:N	2.37	0.52
3:B:234:THR:O	3:B:237:ASP:HB2	2.10	0.52
3:B:248:VAL:HA	3:B:251:GLU:CD	2.34	0.52
3:B:321:LYS:HD2	3:B:330:ARG:NE	2.24	0.52
3:B:526:LEU:HD23	3:B:526:LEU:C	2.34	0.52
3:B:713:TYR:OH	3:B:718:ALA:HB3	2.08	0.52
3:B:814:VAL:HA	3:B:834:ASP:O	2.10	0.52
3:B:911:ASN:HD22	3:B:913:HIS:H	1.55	0.52
3:B:959:ARG:HG2	3:B:959:ARG:NH1	2.25	0.52
3:B:993:LEU:N	3:B:993:LEU:HD12	2.24	0.52
3:B:1047:ASP:HA	3:B:1051:ASP:CB	2.39	0.52
4:D:96:ILE:HG22	4:D:116:SER:HA	1.91	0.52
5:E:17:GLU:CB	5:E:20:LYS:HD2	2.39	0.52
1:Q:13:ILE:HD11	1:Q:86:LEU:CD1	2.40	0.52
3:R:214:PHE:CZ	3:R:297:PHE:HA	2.40	0.52
3:R:544:ARG:HG3	3:R:544:ARG:NH1	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:88:GLU:HA	5:T:141:LYS:HA	1.92	0.52
8:W:38:ALA:HB1	8:W:42:GLN:HE22	1.75	0.52
1:A:687:ILE:CG1	1:A:695:SER:HB3	2.40	0.52
1:A:741:THR:O	1:A:743:MET:N	2.43	0.52
1:A:743:MET:HG3	3:B:919:MET:HE3	1.92	0.52
2:C:31:ASP:C	2:C:33:LYS:N	2.63	0.52
2:C:240:ALA:O	2:C:241:ILE:HG13	2.10	0.52
2:C:383:THR:CG2	3:B:1042:ALA:H	2.21	0.52
3:B:448:THR:HG22	3:B:449:GLN:H	1.74	0.52
3:B:708:LEU:CD1	3:B:713:TYR:HB3	2.38	0.52
4:D:187:VAL:HG21	14:D:1001:F3S:S4	2.50	0.52
5:E:13:ILE:HG23	5:E:25:ILE:HG21	1.91	0.52
1:Q:332:ILE:HD12	1:Q:332:ILE:N	2.25	0.52
2:G:132:ARG:HH11	2:G:132:ARG:HG3	1.74	0.52
2:G:366:PHE:CZ	2:G:375:ILE:HD12	2.45	0.52
3:R:102:PRO:C	3:R:108:GLU:OE1	2.53	0.52
3:R:479:GLY:C	3:R:480:ILE:HG13	2.34	0.52
4:S:50:ASN:ND2	10:Y:64:ARG:NH1	2.57	0.52
4:S:174:ALA:O	4:S:195:LEU:HD13	2.09	0.52
4:S:180:VAL:HG21	4:S:190:LEU:HG	1.90	0.52
11:Z:37:VAL:HG22	11:Z:38:ARG:H	1.74	0.52
11:Z:37:VAL:HG22	11:Z:38:ARG:N	2.25	0.52
1:A:500:GLN:CG	1:A:501:ASP:H	2.22	0.52
1:A:502:TYR:CE2	3:B:734:MET:HE1	2.45	0.52
1:A:749:GLN:HA	1:A:781:PHE:HA	1.92	0.52
2:C:42:ILE:CD1	2:C:42:ILE:H	2.23	0.52
2:C:145:GLU:HG2	2:C:240:ALA:N	2.21	0.52
2:C:389:THR:HG22	8:K:77:THR:HB	1.92	0.52
3:B:215:PRO:O	3:B:216:ALA:HB3	2.09	0.52
3:B:729:PHE:CD2	3:B:730:THR:HG23	2.45	0.52
4:D:112:LYS:HB3	4:D:126:GLY:O	2.08	0.52
4:D:182:VAL:O	4:D:184:PRO:HD3	2.09	0.52
5:E:108:VAL:HG22	5:E:162:LEU:HB2	1.91	0.52
8:K:71:ARG:O	8:K:72:GLY:C	2.51	0.52
1:Q:27:ILE:HB	1:Q:75:ILE:HD12	1.91	0.52
1:Q:502:TYR:CE2	3:R:734:MET:HE1	2.44	0.52
1:Q:785:SER:O	1:Q:787:ARG:N	2.43	0.52
1:Q:820:GLN:HA	1:Q:823:LEU:HD11	1.91	0.52
3:R:63:ILE:HA	3:R:98:LEU:HA	1.91	0.52
3:R:69:ARG:O	3:R:70:VAL:HG13	2.10	0.52
3:R:582:VAL:HG11	3:R:633:LEU:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:589:VAL:O	3:R:590:THR:C	2.53	0.52
3:R:589:VAL:C	3:R:591:ILE:HD12	2.34	0.52
3:R:658:PRO:O	3:R:660:HIS:N	2.41	0.52
3:R:959:ARG:HG2	3:R:959:ARG:NH1	2.25	0.52
3:R:1101:ILE:O	3:R:1105:MET:HG3	2.10	0.52
4:S:254:GLU:HG3	9:X:77:ARG:HH12	1.75	0.52
5:T:39:LEU:CD2	5:T:41:ASP:H	2.20	0.52
6:U:1:MET:HE1	6:U:6:ILE:HG12	1.91	0.52
8:W:82:LEU:CD1	8:W:84:ASN:HB2	2.39	0.52
10:Y:60:ILE:O	10:Y:62:TYR:N	2.42	0.52
1:A:193:GLU:C	1:A:195:LEU:H	2.18	0.51
1:A:206:TRP:CH2	3:B:1108:ILE:HG21	2.45	0.51
1:A:387:ASP:OD2	1:A:389:ARG:N	2.43	0.51
1:A:575:CYS:SG	1:A:582:HIS:HB2	2.51	0.51
3:B:139:ILE:HD12	10:N:61:HIS:NE2	2.25	0.51
3:B:160:VAL:HG21	3:B:426:LEU:HD23	1.91	0.51
3:B:206:LYS:HE3	3:B:220:LYS:HZ2	1.75	0.51
3:B:457:GLU:OE1	3:B:457:GLU:N	2.43	0.51
3:B:852:ILE:HD12	11:P:35:PHE:HA	1.92	0.51
3:B:963:LEU:HD13	3:B:982:ARG:NH2	2.24	0.51
4:D:35:TYR:HE2	9:L:23:THR:HG21	1.74	0.51
4:D:133:LEU:HD21	4:D:139:ILE:CD1	2.40	0.51
4:D:177:GLU:HB2	4:D:178:LYS:HZ2	1.71	0.51
5:E:9:SER:HB3	6:F:3:SER:HB2	1.92	0.51
1:Q:74:HIS:O	1:Q:75:ILE:HD12	2.10	0.51
1:Q:203:ARG:HH22	1:Q:206:TRP:CD1	2.28	0.51
1:Q:245:ILE:HD12	1:Q:272:HIS:CD2	2.44	0.51
3:R:6:THR:HB	3:R:9:GLU:H	1.74	0.51
3:R:557:HIS:ND1	3:R:566:VAL:HG13	2.25	0.51
3:R:625:TYR:N	3:R:625:TYR:CD1	2.77	0.51
3:R:688:THR:CG2	3:R:863:LYS:HZ3	2.23	0.51
3:R:813:LYS:H	3:R:836:SER:HB3	1.74	0.51
3:R:870:ARG:NH2	3:R:996:MET:SD	2.83	0.51
3:R:910:LEU:CD2	3:R:911:ASN:N	2.72	0.51
3:R:1080:PRO:O	3:R:1081:ILE:CG1	2.54	0.51
7:V:42:LEU:HD22	7:V:79:ARG:O	2.10	0.51
7:V:43:PRO:O	7:V:44:TRP:HB2	2.10	0.51
10:Y:44:CYS:SG	10:Y:45:CYS:N	2.83	0.51
1:A:276:TYR:HD2	1:A:277:PHE:HE1	1.51	0.51
1:A:289:HIS:ND1	1:A:290:ARG:HG3	2.26	0.51
1:A:349:VAL:HG21	1:A:409:ARG:NH2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:368:GLY:O	1:A:374:GLY:HA3	2.10	0.51
1:A:471:GLU:OE1	8:K:41:LEU:HD13	2.10	0.51
1:A:473:ILE:HD12	1:A:474:ALA:H	1.72	0.51
1:A:488:THR:OG1	1:A:495:ILE:HD12	2.11	0.51
2:C:55:ALA:HA	2:C:58:GLU:CD	2.34	0.51
2:C:109:GLU:O	2:C:113:ALA:N	2.43	0.51
2:C:241:ILE:CG2	2:C:242:VAL:H	2.22	0.51
2:C:337:GLU:CD	2:C:337:GLU:N	2.68	0.51
3:B:594:ILE:C	3:B:599:SER:HB3	2.35	0.51
3:B:764:LYS:HD2	3:B:771:ASP:CB	2.40	0.51
7:H:42:LEU:HB2	7:H:43:PRO:HD2	1.93	0.51
1:Q:376:ASN:N	1:Q:376:ASN:HD22	2.08	0.51
1:Q:422:GLN:NE2	1:Q:463:ASN:HD21	2.08	0.51
1:Q:575:CYS:SG	1:Q:582:HIS:HB2	2.51	0.51
1:Q:747:LEU:CD1	1:Q:790:LEU:HD11	2.41	0.51
2:G:133:ASP:C	2:G:135:ASP:N	2.65	0.51
2:G:258:LEU:HB2	2:G:279:GLU:OE2	2.11	0.51
2:G:352:LYS:O	2:G:354:LEU:N	2.43	0.51
3:R:116:ILE:HG22	3:R:390:VAL:HG21	1.91	0.51
3:R:780:VAL:HG12	3:R:831:ALA:N	2.25	0.51
3:R:950:ILE:O	3:R:952:GLN:N	2.43	0.51
3:R:963:LEU:CD2	4:S:208:GLU:HG3	2.40	0.51
3:R:992:LYS:HE3	3:R:996:MET:SD	2.50	0.51
4:S:159:VAL:HG23	4:S:231:GLU:O	2.10	0.51
9:X:64:THR:CG2	9:X:65:PRO:HD2	2.33	0.51
10:Y:22:ILE:O	10:Y:26:ASN:ND2	2.42	0.51
1:A:312:ASN:HA	1:A:315:GLY:O	2.10	0.51
1:A:491:TYR:HD1	1:A:607:GLN:NE2	2.08	0.51
1:A:504:SER:O	1:A:508:LEU:HD12	2.10	0.51
1:A:552:ILE:C	1:A:554:ALA:N	2.68	0.51
1:A:716:SER:HB2	1:A:726:TYR:HH	1.75	0.51
2:C:106:ARG:HG2	2:C:106:ARG:HH11	1.76	0.51
3:B:64:ARG:HB2	3:B:97:TRP:CD1	2.45	0.51
3:B:352:SER:O	3:B:404:VAL:HG11	2.11	0.51
3:B:446:HIS:O	3:B:447:GLY:C	2.54	0.51
3:B:453:MET:HE3	3:B:470:LEU:HA	1.91	0.51
3:B:705:THR:CG2	3:B:706:ARG:H	2.12	0.51
3:B:834:ASP:O	3:B:835:THR:HB	2.10	0.51
5:E:123:VAL:C	5:E:125:GLY:H	2.16	0.51
6:F:14:TYR:CD1	6:F:74:SER:CB	2.93	0.51
8:K:21:SER:C	8:K:23:TRP:H	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:L:35:ILE:CD1	9:L:75:ASN:ND2	2.73	0.51
1:Q:301:ARG:O	1:Q:302:LEU:CG	2.57	0.51
1:Q:543:ARG:CG	1:Q:544:GLU:H	2.24	0.51
1:Q:638:PHE:CE2	1:Q:642:GLN:HG3	2.46	0.51
1:Q:716:SER:HB2	1:Q:726:TYR:HH	1.71	0.51
1:Q:782:ILE:HG22	1:Q:784:SER:N	2.25	0.51
1:Q:826:ALA:HB1	2:G:334:VAL:CG1	2.37	0.51
1:Q:831:ARG:NH2	2:G:385:MET:CG	2.74	0.51
2:G:31:ASP:C	2:G:33:LYS:N	2.61	0.51
2:G:70:ILE:HD13	2:G:71:GLY:H	1.75	0.51
2:G:120:PRO:CB	2:G:256:SER:HB3	2.39	0.51
3:R:170:ASN:O	3:R:171:ARG:O	2.29	0.51
3:R:457:GLU:OE1	3:R:652:ALA:HB2	2.09	0.51
3:R:541:ARG:NH2	3:R:557:HIS:CD2	2.77	0.51
3:R:688:THR:HG23	3:R:688:THR:O	2.10	0.51
4:S:34:LEU:HD22	4:S:151:LYS:CB	2.37	0.51
4:S:125:SER:C	4:S:127:ASP:N	2.68	0.51
7:V:42:LEU:HB2	7:V:43:PRO:HD2	1.93	0.51
8:W:61:VAL:C	8:W:63:SER:H	2.18	0.51
1:A:64:THR:CG2	1:A:65:LEU:H	2.22	0.51
1:A:312:ASN:HB3	3:B:1015:GLN:OE1	2.11	0.51
1:A:475:GLU:OE1	3:B:1043:MET:N	2.40	0.51
2:C:292:ILE:CG2	2:C:293:ILE:N	2.74	0.51
3:B:63:ILE:HA	3:B:98:LEU:HA	1.92	0.51
3:B:198:VAL:HG12	3:B:198:VAL:O	2.10	0.51
3:B:291:GLN:O	3:B:295:LYS:HG2	2.10	0.51
3:B:344:ARG:C	3:B:345:LEU:HD12	2.36	0.51
5:E:58:ILE:N	5:E:58:ILE:HD12	2.25	0.51
5:E:174:TRP:HA	5:E:174:TRP:HE3	1.76	0.51
7:H:44:TRP:O	7:H:79:ARG:HD3	2.11	0.51
1:Q:242:ILE:HD13	1:Q:273:VAL:HG22	1.92	0.51
1:Q:491:TYR:HD1	1:Q:607:GLN:NE2	2.09	0.51
2:G:331:ARG:CB	2:G:331:ARG:HH11	2.24	0.51
3:R:89:ASN:HD21	3:R:863:LYS:HZ1	1.58	0.51
3:R:252:LEU:C	3:R:254:PRO:HD2	2.35	0.51
3:R:457:GLU:OE1	3:R:457:GLU:N	2.43	0.51
4:S:79:PRO:HB2	4:S:149:TYR:HE1	1.75	0.51
5:T:64:GLY:O	8:W:42:GLN:HG3	2.10	0.51
5:T:173:GLU:O	5:T:177:GLN:OE1	2.29	0.51
1:A:68:CYS:SG	1:A:71:HIS:CE1	3.03	0.51
1:A:486:ILE:HG23	1:A:487:ILE:HG13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:812:ARG:HG3	2:C:86:THR:HG23	1.93	0.51
2:C:24:LEU:N	2:C:25:PRO:HD2	2.25	0.51
3:B:5:LEU:HD13	3:B:5:LEU:N	2.26	0.51
3:B:227:MET:O	3:B:232:ILE:HB	2.11	0.51
3:B:252:LEU:C	3:B:254:PRO:HD2	2.36	0.51
3:B:353:LEU:O	3:B:356:VAL:HG12	2.11	0.51
3:B:871:ILE:CG2	3:B:872:PRO:HD2	2.41	0.51
3:B:887:VAL:HG12	3:B:888:ILE:N	2.25	0.51
4:D:206:CYS:HB3	14:D:1001:F3S:S3	2.51	0.51
6:F:30:SER:CB	6:F:38:TYR:HE1	2.24	0.51
6:F:68:VAL:O	6:F:72:LEU:HG	2.11	0.51
8:K:19:PHE:O	8:K:20:ILE:C	2.53	0.51
9:L:45:GLN:HE22	9:L:48:PRO:CD	2.23	0.51
10:N:33:LYS:HA	10:N:36:ASP:OD2	2.11	0.51
1:Q:52:ILE:HD13	1:Q:52:ILE:H	1.75	0.51
1:Q:63:ASN:O	1:Q:64:THR:O	2.29	0.51
1:Q:345:LYS:HG2	1:Q:410:HIS:CD2	2.45	0.51
1:Q:387:ASP:CG	1:Q:388:LEU:N	2.68	0.51
1:Q:527:VAL:CG1	1:Q:530:VAL:HB	2.40	0.51
1:Q:656:ASP:HA	1:Q:659:LYS:CD	2.40	0.51
3:R:94:ALA:O	3:R:118:ASP:HA	2.11	0.51
3:R:297:PHE:O	3:R:298:LEU:HB2	2.10	0.51
3:R:869:LEU:HD21	4:S:56:GLU:HB2	1.92	0.51
8:W:35:VAL:CG2	8:W:36:ILE:N	2.73	0.51
9:X:15:LEU:O	9:X:54:ILE:HA	2.10	0.51
1:A:414:GLY:HA2	1:A:434:ARG:NE	2.26	0.51
1:A:487:ILE:HG22	1:A:493:GLY:C	2.35	0.51
1:A:841:LEU:C	1:A:843:GLY:H	2.18	0.51
2:C:126:LEU:HG	2:C:249:TYR:O	2.10	0.51
2:C:393:ILE:HB	5:E:18:PHE:O	2.10	0.51
3:B:193:THR:HG21	3:B:197:ARG:N	2.26	0.51
3:B:346:ALA:O	3:B:350:PHE:N	2.44	0.51
3:B:672:MET:CE	3:B:885:LYS:HD3	2.40	0.51
3:B:963:LEU:HD22	4:D:208:GLU:HG3	1.91	0.51
3:B:1061:CYS:HA	3:B:1088:LEU:HD23	1.93	0.51
4:D:13:ILE:CG1	4:D:238:PRO:HB2	2.40	0.51
6:F:18:LYS:HZ2	6:F:45:GLU:HG2	1.76	0.51
7:H:16:LEU:HD12	7:H:16:LEU:N	2.26	0.51
10:N:21:PHE:CE1	10:N:38:LEU:HD13	2.46	0.51
1:Q:27:ILE:CG2	1:Q:75:ILE:HD11	2.41	0.51
1:Q:289:HIS:HB2	1:Q:295:LEU:CD2	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:488:THR:HG22	1:Q:491:TYR:H	1.76	0.51
1:Q:529:ASP:O	1:Q:530:VAL:C	2.54	0.51
1:Q:853:ASP:HB2	2:G:311:ARG:NH1	2.21	0.51
1:Q:856:PHE:HB3	1:Q:859:TYR:CD1	2.45	0.51
2:G:297:ILE:O	2:G:301:LEU:HG	2.10	0.51
2:G:343:ALA:HB2	2:G:371:GLU:HG3	1.92	0.51
3:R:109:ALA:O	3:R:110:GLU:O	2.29	0.51
3:R:165:GLU:O	3:R:432:SER:HB2	2.10	0.51
3:R:251:GLU:C	3:R:252:LEU:HG	2.36	0.51
3:R:274:SER:C	3:R:276:VAL:H	2.19	0.51
3:R:291:GLN:O	3:R:295:LYS:HG2	2.10	0.51
3:R:358:PHE:C	3:R:360:ALA:H	2.18	0.51
3:R:358:PHE:C	3:R:360:ALA:N	2.65	0.51
3:R:482:GLU:O	3:R:483:ARG:C	2.53	0.51
3:R:654:ILE:HD12	3:R:654:ILE:N	2.22	0.51
3:R:679:LEU:HD23	3:R:716:ARG:HG2	1.93	0.51
3:R:702:LEU:HD13	10:Y:47:ARG:CD	2.41	0.51
3:R:1046:LYS:NZ	3:R:1051:ASP:OD2	2.40	0.51
4:S:67:PHE:HD2	4:S:121:VAL:CG1	2.23	0.51
6:U:31:SER:HA	6:U:35:GLN:NE2	2.26	0.51
7:V:73:GLY:O	7:V:74:GLU:HG3	2.10	0.51
9:X:61:GLY:O	9:X:63:ILE:N	2.44	0.51
1:A:49:LEU:HD22	1:A:71:HIS:O	2.11	0.51
1:A:529:ASP:O	1:A:530:VAL:C	2.54	0.51
1:A:665:ILE:HG13	1:A:666:ASP:N	2.25	0.51
1:A:768:HIS:NE2	3:B:450:TRP:CZ2	2.79	0.51
1:A:785:SER:O	1:A:787:ARG:N	2.43	0.51
1:A:796:PHE:CZ	3:B:445:LEU:HB3	2.46	0.51
2:C:55:ALA:HA	2:C:58:GLU:OE2	2.10	0.51
3:B:248:VAL:CG2	3:B:329:ARG:HH22	2.20	0.51
3:B:251:GLU:C	3:B:252:LEU:HG	2.35	0.51
3:B:280:GLN:O	3:B:281:LYS:C	2.53	0.51
3:B:325:LEU:HD21	3:B:332:PRO:CD	2.36	0.51
3:B:840:ARG:HH11	3:B:1021:ALA:HB2	1.76	0.51
4:D:204:THR:O	4:D:206:CYS:N	2.44	0.51
5:E:134:LYS:HD3	5:E:174:TRP:HE1	1.76	0.51
10:N:18:TRP:CH2	10:N:54:ASP:OD1	2.64	0.51
1:Q:181:ARG:HG2	1:Q:181:ARG:HH11	1.75	0.51
2:G:55:ALA:C	2:G:57:LYS:N	2.66	0.51
2:G:287:GLU:OE2	7:V:79:ARG:CZ	2.59	0.51
2:G:391:ARG:HH21	8:W:42:GLN:HG2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:70:VAL:CG1	3:R:90:LEU:HD23	2.41	0.51
3:R:88:ARG:HG2	11:Z:33:ILE:HD11	1.93	0.51
3:R:193:THR:CB	3:R:197:ARG:O	2.59	0.51
3:R:262:ILE:N	3:R:262:ILE:HD12	2.25	0.51
3:R:278:ILE:HG23	3:R:285:ARG:HH22	1.75	0.51
3:R:526:LEU:HD23	3:R:526:LEU:C	2.36	0.51
3:R:1047:ASP:HA	3:R:1051:ASP:CB	2.38	0.51
3:R:1061:CYS:H	3:R:1065:GLY:HA2	1.76	0.51
4:S:90:GLU:O	4:S:92:CYS:N	2.39	0.51
4:S:165:ARG:HE	4:S:227:ILE:HB	1.74	0.51
6:U:78:THR:HB	6:U:82:GLU:OE2	2.10	0.51
7:V:69:SER:HB2	7:V:75:VAL:CG2	2.38	0.51
1:A:584:SER:O	1:A:585:TYR:C	2.54	0.51
1:A:661:ILE:HD11	1:A:714:ILE:HB	1.93	0.51
1:A:748:GLY:HA2	1:A:781:PHE:CD2	2.45	0.51
1:A:761:TYR:HB3	3:B:622:GLU:OE1	2.10	0.51
1:A:859:TYR:HB2	2:C:64:ILE:HG12	1.93	0.51
2:C:54:LEU:O	2:C:58:GLU:N	2.44	0.51
2:C:106:ARG:O	2:C:107:LEU:C	2.51	0.51
2:C:301:LEU:HA	2:C:304:GLN:CG	2.41	0.51
3:B:482:GLU:O	3:B:483:ARG:C	2.53	0.51
3:B:587:PRO:O	3:B:588:LEU:CD2	2.54	0.51
3:B:804:VAL:HG23	3:B:847:VAL:HG23	1.91	0.51
3:B:1004:ARG:HH11	3:B:1004:ARG:HG3	1.76	0.51
4:D:3:ILE:CD1	9:L:83:TYR:HA	2.41	0.51
5:E:109:HIS:HD2	5:E:111:SER:OG	1.94	0.51
8:K:18:VAL:CG1	8:K:22:LEU:HD12	2.39	0.51
8:K:31:GLU:O	8:K:35:VAL:HG13	2.10	0.51
8:K:63:SER:C	8:K:65:ALA:N	2.54	0.51
1:Q:15:SER:HA	1:Q:203:ARG:HH21	1.74	0.51
1:Q:238:LYS:O	1:Q:242:ILE:HG13	2.11	0.51
1:Q:334:ILE:CG2	1:Q:482:VAL:HG11	2.40	0.51
1:Q:340:PRO:HB2	1:Q:343:ILE:HG12	1.91	0.51
1:Q:470:GLU:HB2	8:W:41:LEU:HD12	1.93	0.51
1:Q:584:SER:O	1:Q:585:TYR:C	2.53	0.51
1:Q:691:THR:O	1:Q:694:GLU:HB2	2.10	0.51
1:Q:764:ARG:NH1	1:Q:769:PHE:O	2.42	0.51
1:Q:872:PHE:HA	1:Q:876:VAL:CG2	2.40	0.51
2:G:24:LEU:O	2:G:29:VAL:HG23	2.11	0.51
3:R:81:SER:H	3:R:84:GLU:HB2	1.75	0.51
3:R:343:LEU:HD11	3:R:575:VAL:CG2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:871:ILE:CG2	3:R:872:PRO:HD2	2.41	0.51
3:R:972:ASP:HB3	3:R:975:THR:CG2	2.41	0.51
3:R:1071:ASP:C	3:R:1073:ASN:N	2.68	0.51
4:S:21:PRO:HB2	4:S:23:GLU:OE1	2.11	0.51
4:S:71:GLU:O	4:S:73:LEU:N	2.44	0.51
5:T:87:GLY:O	5:T:88:GLU:HB2	2.11	0.51
5:T:127:ILE:O	5:T:127:ILE:HG22	2.10	0.51
5:T:147:ILE:O	5:T:148:SER:CB	2.58	0.51
7:V:23:LEU:CD2	7:V:64:ARG:HB2	2.40	0.51
7:V:45:ILE:CG2	7:V:79:ARG:HB3	2.41	0.51
8:W:79:ARG:HG3	8:W:79:ARG:NH1	2.25	0.51
9:X:69:LEU:HD23	9:X:69:LEU:C	2.36	0.51
10:Y:18:TRP:O	10:Y:20:SER:N	2.44	0.51
10:Y:40:VAL:HG11	10:Y:46:ARG:HG3	1.93	0.51
10:Y:60:ILE:HG23	10:Y:61:HIS:ND1	2.25	0.51
1:A:283:GLY:C	1:A:285:PRO:CD	2.79	0.51
1:A:323:ARG:HB2	3:B:1026:LEU:HD12	1.92	0.51
1:A:375:ALA:CB	1:A:409:ARG:HA	2.41	0.51
1:A:525:LEU:C	1:A:527:VAL:N	2.62	0.51
1:A:759:ARG:NH2	1:A:763:THR:HG23	2.26	0.51
3:B:52:GLU:CG	3:B:56:LEU:HD23	2.40	0.51
3:B:94:ALA:O	3:B:119:LEU:N	2.44	0.51
3:B:355:ARG:HG2	3:B:356:VAL:N	2.26	0.51
3:B:393:ARG:HG2	3:B:393:ARG:O	2.11	0.51
3:B:972:ASP:HB3	3:B:975:THR:HG23	1.93	0.51
3:B:1014:ARG:HD2	3:B:1095:TYR:CD1	2.46	0.51
5:E:2:TYR:CE2	6:F:41:LEU:HD11	2.45	0.51
1:Q:330:PRO:HG3	3:R:731:GLY:O	2.10	0.51
1:Q:859:TYR:HB2	2:G:64:ILE:HG13	1.92	0.51
3:R:17:TYR:HB2	3:R:604:PHE:CD1	2.45	0.51
3:R:60:LEU:CD2	3:R:98:LEU:HD21	2.34	0.51
3:R:309:LYS:C	3:R:311:LYS:H	2.18	0.51
3:R:452:ARG:HH11	3:R:452:ARG:HG3	1.76	0.51
3:R:879:ALA:HA	3:R:884:GLN:O	2.10	0.51
3:R:1004:ARG:HH11	3:R:1004:ARG:HG3	1.75	0.51
4:S:66:PRO:CG	10:Y:13:LEU:HD11	2.40	0.51
11:Z:24:VAL:O	11:Z:24:VAL:HG13	2.09	0.51
1:A:206:TRP:C	1:A:208:ILE:H	2.19	0.51
2:C:133:ASP:C	2:C:135:ASP:N	2.67	0.51
2:C:289:ALA:O	2:C:290:ARG:C	2.54	0.51
3:B:687:ARG:HH11	3:B:687:ARG:HB3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:975:THR:O	4:D:26:ASN:ND2	2.44	0.51
4:D:106:PRO:HA	4:D:134:GLY:HA2	1.92	0.51
5:E:38:ILE:HD13	5:E:153:VAL:O	2.11	0.51
5:E:43:GLY:HA3	5:E:76:THR:HG21	1.93	0.51
7:H:80:TYR:O	7:H:81:VAL:CB	2.59	0.51
1:Q:353:ILE:CD1	1:Q:407:ILE:HG23	2.40	0.51
2:G:51:ILE:O	2:G:55:ALA:HB2	2.11	0.51
2:G:135:ASP:C	2:G:137:ALA:H	2.18	0.51
2:G:331:ARG:HH11	2:G:331:ARG:HB3	1.75	0.51
3:R:282:ARG:HD3	3:R:285:ARG:CD	2.41	0.51
3:R:353:LEU:O	3:R:354:PHE:C	2.54	0.51
3:R:679:LEU:HD23	3:R:716:ARG:HD3	1.92	0.51
5:T:119:LYS:HE3	5:T:130:GLU:OE2	2.11	0.51
9:X:1:MET:SD	9:X:3:ILE:HD11	2.51	0.51
10:Y:20:SER:HA	10:Y:23:THR:HB	1.92	0.51
11:Z:17:GLN:O	11:Z:19:LYS:N	2.44	0.51
11:Z:46:LYS:NZ	11:Z:46:LYS:HB3	2.26	0.51
1:A:334:ILE:CD1	1:A:628:MET:HB3	2.38	0.50
3:B:123:LEU:HD22	3:B:151:TYR:CE1	2.46	0.50
3:B:339:ALA:HB2	3:B:618:ALA:CB	2.34	0.50
3:B:372:SER:O	3:B:373:LYS:HB2	2.10	0.50
4:D:30:ARG:NH1	9:L:21:ASP:OD1	2.43	0.50
4:D:124:ILE:O	4:D:124:ILE:HG13	2.11	0.50
6:F:54:LYS:HB2	6:F:54:LYS:HZ2	1.75	0.50
1:Q:27:ILE:HB	1:Q:75:ILE:CD1	2.40	0.50
1:Q:308:ARG:NH2	3:R:1012:LEU:CD1	2.74	0.50
1:Q:500:GLN:CG	1:Q:501:ASP:H	2.24	0.50
2:G:104:LEU:C	2:G:104:LEU:CD2	2.84	0.50
3:R:248:VAL:HA	3:R:251:GLU:CD	2.35	0.50
3:R:521:ILE:HB	3:R:567:HIS:ND1	2.26	0.50
3:R:644:SER:O	3:R:647:ILE:HG13	2.11	0.50
3:R:724:LEU:HD13	3:R:990:TYR:CE2	2.46	0.50
3:R:979:ILE:C	3:R:979:ILE:HD12	2.36	0.50
3:R:1073:ASN:C	3:R:1075:ASN:N	2.67	0.50
4:S:141:LEU:C	4:S:141:LEU:HD12	2.37	0.50
2:C:30:ASP:O	2:C:31:ASP:HB3	2.12	0.50
2:C:390:MET:O	2:C:391:ARG:HB3	2.11	0.50
3:B:274:SER:C	3:B:276:VAL:H	2.20	0.50
3:B:301:LEU:HD22	3:B:483:ARG:NH2	2.24	0.50
3:B:433:LEU:HD12	3:B:435:ARG:HH22	1.75	0.50
3:B:537:ALA:CB	3:B:557:HIS:HE2	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:537:ALA:HB1	3:B:541:ARG:CZ	2.41	0.50
3:B:687:ARG:NH1	3:B:687:ARG:CG	2.73	0.50
3:B:727:MET:HB3	3:B:983:ILE:HG23	1.92	0.50
3:B:1071:ASP:C	3:B:1073:ASN:N	2.69	0.50
5:E:147:ILE:O	5:E:148:SER:CB	2.59	0.50
5:E:173:GLU:O	5:E:177:GLN:OE1	2.29	0.50
7:H:49:ASP:O	7:H:53:ARG:HB3	2.11	0.50
9:L:61:GLY:O	9:L:63:ILE:N	2.43	0.50
9:L:92:LYS:N	9:L:92:LYS:HD2	2.26	0.50
1:Q:365:VAL:HG22	1:Q:365:VAL:O	2.11	0.50
1:Q:418:LEU:HG	1:Q:480:MET:HE1	1.94	0.50
1:Q:665:ILE:HG13	1:Q:666:ASP:N	2.26	0.50
1:Q:667:ARG:O	1:Q:670:VAL:CG2	2.56	0.50
1:Q:748:GLY:HA2	1:Q:781:PHE:CD2	2.46	0.50
2:G:269:VAL:CA	2:G:272:VAL:HG23	2.39	0.50
2:G:331:ARG:HB2	2:G:348:GLU:HG3	1.92	0.50
3:R:249:GLN:O	3:R:250:ASN:C	2.55	0.50
3:R:345:LEU:HD11	3:R:476:ILE:HG13	1.92	0.50
3:R:530:TYR:CD2	3:R:530:TYR:O	2.64	0.50
3:R:657:TYR:O	3:R:658:PRO:C	2.53	0.50
3:R:764:LYS:NZ	3:R:814:VAL:N	2.47	0.50
3:R:778:ALA:HA	3:R:783:TYR:CZ	2.46	0.50
3:R:881:ARG:NH1	3:R:989:TYR:HB3	2.27	0.50
4:S:27:ALA:HB1	9:X:23:THR:HG22	1.92	0.50
4:S:134:GLY:O	4:S:135:THR:O	2.29	0.50
4:S:167:TYR:HB2	4:S:225:LYS:O	2.11	0.50
5:T:46:LEU:HD11	5:T:77:TYR:HB2	1.93	0.50
5:T:140:ASP:O	5:T:142:VAL:HG13	2.11	0.50
7:V:47:ALA:C	7:V:49:ASP:H	2.19	0.50
1:A:807:VAL:CG2	3:B:443:ARG:HD3	2.39	0.50
2:C:390:MET:HE2	2:C:390:MET:HA	1.93	0.50
3:B:45:GLU:HG3	3:B:46:GLN:N	2.26	0.50
3:B:54:PRO:O	3:B:55:GLY:C	2.55	0.50
3:B:237:ASP:O	3:B:241:ALA:HB2	2.11	0.50
3:B:368:GLN:NE2	3:B:386:ARG:HE	2.07	0.50
3:B:373:LYS:CD	3:B:375:ARG:HD2	2.42	0.50
3:B:727:MET:HE2	3:B:983:ILE:HG13	1.93	0.50
4:D:6:LEU:HB3	4:D:14:ASP:HB2	1.93	0.50
4:D:79:PRO:HB2	4:D:149:TYR:HE1	1.76	0.50
5:E:43:GLY:HA3	5:E:76:THR:CG2	2.42	0.50
6:F:51:SER:O	6:F:55:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K:50:LEU:O	8:K:52:ASP:N	2.44	0.50
10:N:35:LEU:O	10:N:38:LEU:O	2.29	0.50
1:Q:552:ILE:C	1:Q:554:ALA:N	2.69	0.50
1:Q:607:GLN:HB2	1:Q:608:PRO:CD	2.40	0.50
2:G:55:ALA:O	2:G:58:GLU:HB2	2.11	0.50
3:R:367:TYR:HD2	3:R:367:TYR:C	2.19	0.50
3:R:591:ILE:HG12	3:R:612:LYS:HZ2	1.76	0.50
3:R:759:SER:CB	3:R:863:LYS:HA	2.40	0.50
4:S:59:ALA:O	4:S:62:LEU:HB2	2.11	0.50
4:S:106:PRO:HD3	4:S:135:THR:HG23	1.93	0.50
5:T:126:ILE:CG2	5:T:136:ILE:H	2.23	0.50
6:U:30:SER:HB3	6:U:38:TYR:HE1	1.76	0.50
7:V:28:ALA:C	7:V:30:LYS:H	2.20	0.50
11:Z:22:PRO:HG2	11:Z:23:GLY:H	1.76	0.50
1:A:93:PHE:CE2	1:A:204:PRO:HB3	2.46	0.50
1:A:234:ASP:O	1:A:236:THR:N	2.44	0.50
1:A:277:PHE:N	1:A:277:PHE:HD1	2.09	0.50
1:A:334:ILE:HD11	1:A:628:MET:HE3	1.93	0.50
1:A:409:ARG:HH11	1:A:409:ARG:CB	2.24	0.50
1:A:469:SER:O	1:A:473:ILE:HG13	2.12	0.50
2:C:331:ARG:HB2	2:C:348:GLU:HG3	1.93	0.50
3:B:369:LEU:HD21	3:B:379:LEU:HD22	1.94	0.50
3:B:846:ILE:O	3:B:846:ILE:HG22	2.11	0.50
3:B:895:VAL:HG11	4:D:34:LEU:CG	2.41	0.50
3:B:952:GLN:O	3:B:953:LEU:C	2.55	0.50
3:B:965:ASP:C	3:B:967:THR:H	2.16	0.50
4:D:18:GLU:OE1	4:D:225:LYS:HD2	2.11	0.50
4:D:149:TYR:O	4:D:150:GLY:C	2.54	0.50
4:D:178:LYS:O	4:D:179:ALA:C	2.54	0.50
5:E:53:THR:HG22	5:E:70:VAL:HA	1.93	0.50
5:E:101:LEU:HD11	5:E:160:ILE:HG21	1.93	0.50
5:E:147:ILE:HD11	5:E:163:THR:HB	1.94	0.50
6:F:57:GLU:C	6:F:59:LEU:N	2.67	0.50
7:H:43:PRO:O	7:H:44:TRP:HB2	2.09	0.50
8:K:35:VAL:CG2	8:K:36:ILE:N	2.73	0.50
1:Q:420:ASN:ND2	1:Q:421:ARG:N	2.60	0.50
1:Q:489:PRO:HA	1:Q:858:MET:HG3	1.93	0.50
1:Q:563:HIS:CD2	1:Q:587:VAL:HG13	2.47	0.50
1:Q:589:LYS:O	1:Q:592:ILE:HB	2.10	0.50
1:Q:775:SER:OG	1:Q:777:GLU:HG2	2.12	0.50
3:R:134:THR:HG22	3:R:137:LYS:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:184:THR:N	3:R:207:ASP:O	2.44	0.50
3:R:252:LEU:CD1	3:R:323:ILE:HB	2.41	0.50
3:R:448:THR:HG22	3:R:452:ARG:HD2	1.94	0.50
3:R:930:GLY:O	10:Y:47:ARG:NH1	2.45	0.50
4:S:178:LYS:O	4:S:179:ALA:C	2.54	0.50
5:T:163:THR:C	5:T:164:MET:HG3	2.35	0.50
6:U:57:GLU:C	6:U:59:LEU:N	2.68	0.50
7:V:16:LEU:HD12	7:V:16:LEU:N	2.27	0.50
7:V:43:PRO:O	7:V:44:TRP:CB	2.60	0.50
8:W:70:ARG:C	8:W:72:GLY:N	2.67	0.50
9:X:43:TYR:O	9:X:44:TYR:HB3	2.11	0.50
1:A:203:ARG:HG3	1:A:203:ARG:NH1	2.21	0.50
1:A:277:PHE:CD1	1:A:277:PHE:N	2.79	0.50
1:A:316:LYS:HE2	3:B:1094:SER:HG	1.76	0.50
1:A:489:PRO:CA	1:A:858:MET:HG3	2.41	0.50
1:A:649:GLU:HA	1:A:652:SER:OG	2.12	0.50
1:A:752:VAL:C	1:A:754:GLY:N	2.66	0.50
3:B:6:THR:HB	3:B:9:GLU:H	1.76	0.50
3:B:28:LEU:C	3:B:30:SER:N	2.68	0.50
3:B:111:PRO:O	3:B:112:GLU:CB	2.60	0.50
3:B:369:LEU:CD2	3:B:384:LEU:HD13	2.41	0.50
3:B:688:THR:HG23	3:B:688:THR:O	2.10	0.50
3:B:904:VAL:HG13	10:N:44:CYS:HB3	1.94	0.50
3:B:1061:CYS:HB3	3:B:1064:CYS:C	2.36	0.50
3:B:1073:ASN:C	3:B:1075:ASN:N	2.67	0.50
4:D:66:PRO:O	4:D:123:PRO:HA	2.11	0.50
4:D:204:THR:O	4:D:205:LEU:C	2.54	0.50
4:D:252:LYS:O	4:D:255:GLU:N	2.44	0.50
6:F:40:TYR:O	6:F:43:SER:OG	2.29	0.50
1:Q:220:ARG:H	1:Q:221:PRO:CD	2.25	0.50
1:Q:464:LEU:CD1	1:Q:464:LEU:C	2.85	0.50
1:Q:485:ASN:ND2	3:R:1039:PHE:CE2	2.79	0.50
1:Q:785:SER:H	1:Q:788:THR:HB	1.76	0.50
1:Q:791:LYS:H	1:Q:794:GLU:HB2	1.76	0.50
3:R:18:PHE:C	3:R:20:SER:H	2.19	0.50
3:R:97:TRP:O	3:R:98:LEU:HB3	2.11	0.50
3:R:184:THR:HG22	3:R:185:HIS:N	2.27	0.50
3:R:360:ALA:HB2	3:R:393:ARG:HH12	1.77	0.50
3:R:367:TYR:C	3:R:367:TYR:CD2	2.90	0.50
3:R:419:TRP:HZ3	3:R:712:GLY:CA	2.24	0.50
3:R:672:MET:CE	3:R:885:LYS:HD3	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:6:LEU:HB3	4:S:14:ASP:HB2	1.93	0.50
5:T:108:VAL:HG22	5:T:162:LEU:HB2	1.93	0.50
5:T:113:ILE:O	5:T:164:MET:HB2	2.12	0.50
7:V:38:ARG:HG2	7:V:38:ARG:NH1	2.25	0.50
8:W:82:LEU:HD23	8:W:82:LEU:N	2.26	0.50
10:Y:33:LYS:HA	10:Y:36:ASP:OD2	2.11	0.50
1:A:94:LEU:C	1:A:96:ALA:H	2.18	0.50
1:A:420:ASN:HD22	1:A:421:ARG:H	1.60	0.50
1:A:764:ARG:NH1	1:A:769:PHE:O	2.44	0.50
1:A:872:PHE:CD2	1:A:876:VAL:HG21	2.46	0.50
2:C:104:LEU:C	2:C:104:LEU:HD23	2.37	0.50
2:C:379:ILE:HD13	2:C:379:ILE:N	2.26	0.50
3:B:265:VAL:O	3:B:268:ALA:HB3	2.12	0.50
3:B:412:GLN:NE2	3:B:425:HIS:HE1	2.09	0.50
3:B:799:SER:O	3:B:802:VAL:HG23	2.12	0.50
3:B:805:LYS:O	3:B:806:GLY:C	2.55	0.50
4:D:45:TYR:HE1	11:P:44:ILE:HD13	1.77	0.50
4:D:47:ILE:HB	4:D:140:SER:O	2.11	0.50
7:H:25:ILE:H	7:H:25:ILE:HD12	1.76	0.50
7:H:73:GLY:O	7:H:74:GLU:HG3	2.11	0.50
10:N:20:SER:HA	10:N:23:THR:HB	1.92	0.50
1:Q:289:HIS:ND1	1:Q:290:ARG:HG3	2.27	0.50
1:Q:692:LEU:HD12	1:Q:692:LEU:H	1.76	0.50
1:Q:743:MET:HG3	3:R:919:MET:HE2	1.92	0.50
1:Q:756:ARG:HH22	1:Q:776:PRO:HA	1.75	0.50
2:G:337:GLU:CD	2:G:337:GLU:N	2.69	0.50
3:R:369:LEU:HD21	3:R:379:LEU:HD22	1.92	0.50
3:R:432:SER:O	3:R:435:ARG:NE	2.44	0.50
3:R:532:ASP:OD1	3:R:535:GLU:HB2	2.11	0.50
3:R:741:ASN:O	3:R:745:VAL:HG23	2.12	0.50
5:T:43:GLY:HA3	5:T:76:THR:HG21	1.92	0.50
11:Z:21:LEU:HD23	11:Z:21:LEU:N	2.25	0.50
1:A:340:PRO:HB2	1:A:343:ILE:HG12	1.92	0.50
1:A:584:SER:OG	1:A:585:TYR:N	2.43	0.50
1:A:761:TYR:CB	1:A:764:ARG:HG3	2.40	0.50
1:A:830:LEU:HD13	1:A:846:VAL:HG21	1.92	0.50
2:C:15:GLU:HA	2:C:18:LYS:HD2	1.92	0.50
2:C:359:ALA:C	2:C:361:GLY:H	2.20	0.50
3:B:62:LYS:C	3:B:63:ILE:HD12	2.35	0.50
3:B:103:VAL:HG13	3:B:106:ASN:C	2.37	0.50
3:B:254:PRO:O	3:B:257:GLU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:373:LYS:HE2	3:B:378:LYS:HE3	1.94	0.50
3:B:407:ARG:NH2	3:B:433:LEU:HG	2.26	0.50
3:B:661:ASN:ND2	3:B:921:LEU:O	2.42	0.50
3:B:763:VAL:HG22	3:B:770:GLU:HG3	1.92	0.50
3:B:780:VAL:HG11	3:B:831:ALA:CB	2.41	0.50
5:E:126:ILE:CG2	5:E:136:ILE:H	2.23	0.50
9:L:14:GLU:OE1	9:L:56:LYS:HG2	2.11	0.50
10:N:16:ASP:OD2	10:N:17:LYS:HG3	2.11	0.50
1:Q:64:THR:CG2	1:Q:65:LEU:H	2.20	0.50
1:Q:220:ARG:HD2	1:Q:236:THR:OG1	2.11	0.50
1:Q:464:LEU:CD1	1:Q:465:HIS:N	2.72	0.50
1:Q:785:SER:C	1:Q:787:ARG:N	2.70	0.50
1:Q:859:TYR:HB2	2:G:64:ILE:HG12	1.94	0.50
2:G:365:GLU:HG2	2:G:366:PHE:N	2.27	0.50
3:R:221:ILE:CG2	3:R:226:LEU:HG	2.36	0.50
3:R:295:LYS:HG3	3:R:296:TYR:CD1	2.47	0.50
3:R:368:GLN:NE2	3:R:386:ARG:HE	2.07	0.50
3:R:393:ARG:NE	3:R:403:TRP:HZ3	2.07	0.50
3:R:764:LYS:HD2	3:R:771:ASP:CB	2.41	0.50
3:R:903:GLY:HA3	4:S:161:LEU:HD12	1.92	0.50
4:S:172:ILE:HG21	4:S:195:LEU:HD13	1.92	0.50
5:T:13:ILE:HG23	5:T:25:ILE:HG21	1.93	0.50
5:T:15:PRO:HG2	8:W:45:MET:CB	2.42	0.50
6:U:35:GLN:HA	6:U:38:TYR:HD1	1.71	0.50
1:A:203:ARG:NH1	1:A:203:ARG:CG	2.70	0.50
1:A:330:PRO:HG3	3:B:731:GLY:O	2.12	0.50
3:B:70:VAL:CG1	3:B:80:ILE:HD13	2.41	0.50
3:B:304:SER:O	3:B:305:ALA:C	2.55	0.50
3:B:345:LEU:HD12	3:B:345:LEU:N	2.27	0.50
3:B:367:TYR:HD2	3:B:367:TYR:C	2.20	0.50
3:B:388:ASP:O	3:B:391:THR:N	2.45	0.50
3:B:532:ASP:OD1	3:B:535:GLU:HB2	2.11	0.50
3:B:890:MET:CE	3:B:891:LEU:H	2.19	0.50
3:B:950:ILE:C	3:B:952:GLN:N	2.69	0.50
6:F:16:VAL:C	6:F:18:LYS:N	2.65	0.50
1:Q:447:LEU:HD13	3:R:734:MET:SD	2.51	0.50
1:Q:668:ALA:CB	1:Q:707:LEU:HD13	2.41	0.50
1:Q:720:ASP:O	1:Q:722:PHE:N	2.45	0.50
1:Q:749:GLN:HA	1:Q:781:PHE:HA	1.94	0.50
3:R:6:THR:O	3:R:7:ILE:HD13	2.12	0.50
3:R:33:ASP:OD1	3:R:33:ASP:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:50:PRO:CG	3:R:51:THR:H	2.16	0.50
3:R:805:LYS:O	3:R:806:GLY:C	2.55	0.50
3:R:950:ILE:O	3:R:951:GLU:C	2.54	0.50
3:R:1033:ARG:HD2	3:R:1037:ILE:HD11	1.94	0.50
1:A:487:ILE:O	1:A:858:MET:HE3	2.12	0.50
1:A:828:SER:C	1:A:830:LEU:N	2.70	0.50
3:B:167:LEU:HD12	3:B:190:ILE:CD1	2.41	0.50
3:B:189:ILE:CB	3:B:203:GLU:HB2	2.38	0.50
3:B:214:PHE:HZ	3:B:297:PHE:CA	2.22	0.50
3:B:341:LYS:HZ2	3:B:341:LYS:HB3	1.76	0.50
3:B:457:GLU:C	3:B:458:THR:OG1	2.55	0.50
3:B:545:ARG:CZ	3:B:581:ILE:HG21	2.41	0.50
4:D:69:SER:CA	4:D:72:ALA:HB3	2.42	0.50
4:D:94:THR:CG2	4:D:145:LEU:HB2	2.42	0.50
4:D:98:ILE:HG12	4:D:114:ILE:HG12	1.93	0.50
5:E:163:THR:C	5:E:164:MET:HG3	2.37	0.50
6:F:23:ASP:HA	6:F:26:ARG:NE	2.27	0.50
6:F:49:ALA:O	6:F:53:GLN:HB2	2.11	0.50
7:H:80:TYR:CE1	7:H:82:ILE:HD11	2.47	0.50
8:K:26:ARG:CG	8:K:90:LEU:HD13	2.42	0.50
8:K:34:ARG:C	8:K:37:SER:HB2	2.36	0.50
1:Q:87:VAL:HG13	1:Q:88:LYS:N	2.26	0.50
1:Q:508:LEU:HB3	1:Q:638:PHE:HE2	1.77	0.50
1:Q:532:ILE:HD12	9:X:12:TYR:OH	2.12	0.50
2:G:349:VAL:HG13	2:G:353:HIS:CD2	2.47	0.50
2:G:386:VAL:HG11	8:W:34:ARG:HB2	1.94	0.50
3:R:111:PRO:O	3:R:112:GLU:CB	2.60	0.50
3:R:237:ASP:O	3:R:241:ALA:HB2	2.12	0.50
3:R:489:LEU:HB3	3:R:494:VAL:HG21	1.94	0.50
3:R:1085:LYS:O	3:R:1086:SER:OG	2.22	0.50
2:C:57:LYS:HA	2:C:57:LYS:CE	2.39	0.49
2:C:286:ILE:HD11	7:H:46:ARG:H	1.76	0.49
3:B:184:THR:HG22	3:B:185:HIS:N	2.27	0.49
3:B:481:ASN:O	3:B:482:GLU:O	2.29	0.49
3:B:1033:ARG:HG3	3:B:1034:ASP:N	2.26	0.49
4:D:38:ILE:HD12	4:D:39:MET:C	2.37	0.49
4:D:64:LEU:HD13	10:N:6:ARG:HB2	1.92	0.49
4:D:125:SER:C	4:D:127:ASP:N	2.70	0.49
4:D:205:LEU:O	4:D:207:GLU:N	2.45	0.49
5:E:114:THR:C	5:E:165:ARG:HE	2.20	0.49
5:E:147:ILE:HG12	5:E:163:THR:HB	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:4:LYS:HZ2	3:R:1115:LEU:CB	2.23	0.49
1:Q:206:TRP:C	1:Q:208:ILE:N	2.70	0.49
1:Q:647:ARG:HH21	4:S:211:ARG:HH12	1.59	0.49
2:G:326:VAL:HG13	2:G:326:VAL:O	2.11	0.49
2:G:389:THR:HG22	8:W:77:THR:HB	1.93	0.49
3:R:248:VAL:CG2	3:R:329:ARG:HH22	2.18	0.49
3:R:430:ILE:HG22	3:R:431:SER:O	2.12	0.49
3:R:1063:GLN:HE22	3:R:1085:LYS:HD2	1.76	0.49
3:R:1098:LYS:O	3:R:1102:GLN:HG3	2.12	0.49
4:S:256:LEU:HD12	9:X:3:ILE:HG13	1.94	0.49
10:Y:40:VAL:O	10:Y:40:VAL:HG12	2.11	0.49
1:A:87:VAL:HG13	1:A:88:LYS:H	1.78	0.49
1:A:474:ALA:C	1:A:476:ALA:N	2.69	0.49
1:A:534:LEU:HD23	9:L:39:SER:O	2.12	0.49
1:A:543:ARG:CG	1:A:544:GLU:H	2.24	0.49
1:A:691:THR:HG22	1:A:692:LEU:N	2.27	0.49
2:C:42:ILE:HD12	2:C:42:ILE:N	2.27	0.49
2:C:287:GLU:OE2	7:H:79:ARG:CZ	2.61	0.49
3:B:97:TRP:O	3:B:98:LEU:HB3	2.11	0.49
3:B:740:MET:HE2	3:B:888:ILE:HD11	1.93	0.49
3:B:789:TYR:CD2	3:B:789:TYR:N	2.69	0.49
3:B:792:LEU:HD11	3:B:809:VAL:HG11	1.94	0.49
3:B:879:ALA:HA	3:B:884:GLN:O	2.13	0.49
3:B:978:LYS:HD2	4:D:205:LEU:HD22	1.95	0.49
4:D:53:LEU:HD22	4:D:57:ILE:CG2	2.40	0.49
4:D:250:ILE:O	4:D:254:GLU:HB2	2.12	0.49
1:Q:392:LYS:O	1:Q:394:ARG:N	2.45	0.49
1:Q:533:ASP:O	1:Q:534:LEU:O	2.31	0.49
2:G:391:ARG:NH2	5:T:18:PHE:HE2	2.11	0.49
3:R:70:VAL:CG1	3:R:80:ILE:HD13	2.41	0.49
3:R:174:VAL:HG11	3:R:325:LEU:HD23	1.93	0.49
3:R:254:PRO:O	3:R:257:GLU:N	2.44	0.49
3:R:727:MET:HB3	3:R:983:ILE:HG23	1.94	0.49
4:S:69:SER:HB2	4:S:236:LEU:HD11	1.94	0.49
5:T:18:PHE:CD2	8:W:47:ALA:CB	2.94	0.49
6:U:23:ASP:HA	6:U:26:ARG:NE	2.27	0.49
6:U:54:LYS:HB2	6:U:54:LYS:NZ	2.27	0.49
1:A:81:VAL:HG12	1:A:270:GLN:CG	2.40	0.49
1:A:214:VAL:O	1:A:214:VAL:HG12	2.12	0.49
1:A:465:HIS:CD2	3:B:1048:ARG:HD2	2.47	0.49
1:A:555:PHE:HD1	1:A:626:TRP:CH2	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:814:SER:O	1:A:818:TYR:HB2	2.11	0.49
2:C:55:ALA:O	2:C:58:GLU:HB2	2.11	0.49
2:C:392:PRO:O	2:C:393:ILE:O	2.30	0.49
3:B:521:ILE:HB	3:B:567:HIS:ND1	2.27	0.49
3:B:570:CYS:O	3:B:571:ASP:O	2.31	0.49
3:B:686:LEU:H	3:B:686:LEU:CD1	2.14	0.49
3:B:790:ARG:C	3:B:792:LEU:N	2.69	0.49
3:B:852:ILE:HG23	3:B:862:VAL:CG2	2.39	0.49
3:B:852:ILE:CD1	11:P:35:PHE:HA	2.43	0.49
3:B:902:LYS:CB	10:N:42:ARG:HD3	2.42	0.49
3:B:956:GLU:C	3:B:958:LEU:N	2.70	0.49
4:D:133:LEU:HD21	4:D:139:ILE:HG12	1.93	0.49
4:D:203:CYS:O	4:D:204:THR:HG23	2.12	0.49
4:D:206:CYS:O	4:D:207:GLU:CB	2.61	0.49
5:E:127:ILE:HG22	5:E:127:ILE:O	2.12	0.49
8:K:50:LEU:CD2	8:K:74:LEU:HA	2.42	0.49
8:K:91:SER:O	8:K:92:LEU:HB2	2.12	0.49
11:P:21:LEU:HD23	11:P:21:LEU:N	2.28	0.49
1:Q:464:LEU:HD13	1:Q:465:HIS:H	1.75	0.49
1:Q:752:VAL:C	1:Q:754:GLY:N	2.66	0.49
1:Q:854:GLY:O	2:G:65:ALA:HA	2.12	0.49
2:G:35:LEU:O	2:G:39:LYS:HE3	2.11	0.49
3:R:34:PHE:CE1	3:R:351:ALA:HA	2.47	0.49
3:R:419:TRP:HZ3	3:R:712:GLY:C	2.20	0.49
3:R:1014:ARG:HG3	3:R:1095:TYR:CE2	2.46	0.49
4:S:4:ASN:HA	9:X:90:LEU:CD2	2.40	0.49
5:T:43:GLY:HA3	5:T:76:THR:CG2	2.42	0.49
5:T:127:ILE:H	5:T:136:ILE:HB	1.76	0.49
1:A:323:ARG:HD2	3:B:1026:LEU:HD11	1.95	0.49
1:A:418:LEU:HG	1:A:480:MET:HE1	1.94	0.49
3:B:146:LYS:HB2	3:B:716:ARG:HH22	1.78	0.49
3:B:343:LEU:N	3:B:343:LEU:CD1	2.74	0.49
3:B:353:LEU:O	3:B:354:PHE:C	2.55	0.49
3:B:657:TYR:O	3:B:658:PRO:C	2.55	0.49
3:B:805:LYS:O	3:B:806:GLY:O	2.31	0.49
3:B:1069:TRP:CZ3	3:B:1077:TYR:CB	2.95	0.49
3:B:1074:LYS:CB	3:B:1076:LYS:HG3	2.42	0.49
4:D:94:THR:OG1	4:D:95:LYS:N	2.42	0.49
6:F:30:SER:OG	6:F:38:TYR:HE1	1.92	0.49
1:Q:517:THR:CG2	1:Q:518:LYS:N	2.75	0.49
1:Q:821:ARG:O	1:Q:825:ASN:ND2	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:827:LEU:HD12	1:Q:830:LEU:HD12	1.94	0.49
1:Q:830:LEU:HD13	1:Q:846:VAL:HG21	1.94	0.49
2:G:55:ALA:O	2:G:58:GLU:N	2.45	0.49
2:G:276:ASN:O	2:G:279:GLU:HB3	2.11	0.49
3:R:52:GLU:CG	3:R:56:LEU:HD23	2.42	0.49
3:R:280:GLN:O	3:R:281:LYS:C	2.54	0.49
3:R:325:LEU:HD21	3:R:332:PRO:CD	2.37	0.49
3:R:462:PRO:C	3:R:464:SER:H	2.19	0.49
3:R:530:TYR:OH	3:R:536:LEU:CB	2.60	0.49
3:R:1033:ARG:NH1	3:R:1033:ARG:CG	2.71	0.49
4:S:149:TYR:O	4:S:150:GLY:C	2.55	0.49
6:U:14:TYR:H	6:U:14:TYR:HD1	1.60	0.49
7:V:49:ASP:O	7:V:53:ARG:HB3	2.12	0.49
9:X:45:GLN:HE22	9:X:48:PRO:CD	2.24	0.49
10:Y:55:ILE:HD13	10:Y:55:ILE:N	2.26	0.49
1:A:181:ARG:HG2	1:A:181:ARG:HH11	1.78	0.49
1:A:188:PRO:O	1:A:192:VAL:HG23	2.12	0.49
1:A:353:ILE:CD1	1:A:407:ILE:HG23	2.42	0.49
1:A:418:LEU:CD1	3:B:1044:LEU:HD11	2.42	0.49
1:A:720:ASP:O	1:A:722:PHE:N	2.45	0.49
1:A:785:SER:C	1:A:787:ARG:N	2.70	0.49
2:C:104:LEU:CB	2:C:105:PRO:HD3	2.31	0.49
2:C:365:GLU:C	2:C:366:PHE:CD1	2.90	0.49
3:B:191:SER:CA	3:B:300:HIS:NE2	2.72	0.49
3:B:252:LEU:CD1	3:B:323:ILE:HB	2.41	0.49
3:B:278:ILE:HG23	3:B:285:ARG:HH22	1.78	0.49
3:B:292:ILE:O	3:B:293:ILE:HD13	2.11	0.49
3:B:563:ILE:HG22	3:B:564:ASN:N	2.28	0.49
3:B:707:ALA:C	3:B:709:ASP:N	2.70	0.49
4:D:33:MET:O	4:D:150:GLY:HA3	2.13	0.49
4:D:85:CYS:O	4:D:89:CYS:SG	2.70	0.49
5:E:81:VAL:O	5:E:82:GLN:CB	2.61	0.49
5:E:166:GLN:HB2	5:E:169:LEU:CD1	2.30	0.49
7:H:15:TYR:CD2	7:H:16:LEU:HD12	2.48	0.49
8:K:28:THR:O	8:K:29:ARG:C	2.55	0.49
1:Q:11:PHE:HA	3:R:1110:SER:O	2.12	0.49
1:Q:18:GLU:O	1:Q:22:MET:HB3	2.12	0.49
1:Q:390:TYR:O	1:Q:391:VAL:HB	2.12	0.49
1:Q:487:ILE:HG22	1:Q:493:GLY:C	2.38	0.49
1:Q:515:LEU:HD11	1:Q:539:ILE:HG13	1.93	0.49
1:Q:608:PRO:O	1:Q:609:GLU:CG	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:365:GLU:C	2:G:366:PHE:CD1	2.90	0.49
2:G:366:PHE:O	2:G:368:GLY:N	2.45	0.49
2:G:391:ARG:CB	8:W:75:PRO:HB2	2.43	0.49
3:R:294:ASP:O	3:R:303:THR:HA	2.13	0.49
3:R:344:ARG:C	3:R:345:LEU:HD12	2.37	0.49
3:R:569:ASN:CG	3:R:574:ARG:HH22	2.21	0.49
3:R:633:LEU:C	3:R:635:PRO:HD2	2.38	0.49
3:R:854:GLU:OE2	11:Z:24:VAL:HB	2.12	0.49
3:R:887:VAL:HG12	3:R:888:ILE:N	2.26	0.49
4:S:66:PRO:HB2	4:S:124:ILE:CG1	2.38	0.49
4:S:134:GLY:O	4:S:137:GLN:HG3	2.11	0.49
4:S:206:CYS:HB3	14:S:1001:F3S:S3	2.52	0.49
5:T:53:THR:OG1	5:T:71:GLU:HB2	2.12	0.49
6:U:41:LEU:O	6:U:43:SER:N	2.33	0.49
1:A:341:GLU:O	1:A:345:LYS:HG3	2.13	0.49
1:A:533:ASP:O	1:A:534:LEU:O	2.31	0.49
1:A:541:ALA:O	1:A:542:PRO:C	2.54	0.49
1:A:756:ARG:HH22	1:A:776:PRO:HA	1.78	0.49
3:B:144:ASP:HB3	3:B:682:ALA:HB3	1.94	0.49
3:B:221:ILE:HD12	3:B:221:ILE:N	2.27	0.49
3:B:249:GLN:C	3:B:253:PHE:CE1	2.90	0.49
3:B:296:TYR:O	3:B:297:PHE:HB2	2.11	0.49
3:B:564:ASN:ND2	3:B:564:ASN:O	2.45	0.49
3:B:851:LEU:HA	11:P:35:PHE:CB	2.34	0.49
3:B:943:THR:CG2	3:B:944:PRO:CD	2.90	0.49
3:B:979:ILE:C	3:B:979:ILE:HD12	2.37	0.49
1:Q:13:ILE:O	1:Q:13:ILE:HG22	2.10	0.49
1:Q:94:LEU:HD11	1:Q:180:ILE:HG23	1.94	0.49
1:Q:397:LEU:HD23	1:Q:400:THR:OG1	2.13	0.49
1:Q:759:ARG:N	1:Q:779:ARG:HH21	2.10	0.49
3:R:292:ILE:O	3:R:293:ILE:HD13	2.12	0.49
3:R:330:ARG:HH11	3:R:330:ARG:CG	2.25	0.49
3:R:416:ARG:CZ	3:R:687:ARG:NH2	2.75	0.49
3:R:536:LEU:O	3:R:537:ALA:C	2.55	0.49
3:R:690:THR:O	3:R:691:ARG:O	2.30	0.49
3:R:738:ILE:HG12	3:R:739:ILE:N	2.28	0.49
3:R:1069:TRP:CE3	3:R:1070:TYR:O	2.65	0.49
7:V:15:TYR:CD2	7:V:16:LEU:HD12	2.48	0.49
10:Y:18:TRP:CZ2	10:Y:22:ILE:HG21	2.47	0.49
1:A:249:LEU:HD21	1:A:265:LEU:CB	2.41	0.49
1:A:365:VAL:HG22	1:A:365:VAL:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:428:ILE:O	1:A:428:ILE:CG2	2.61	0.49
2:C:12:TYR:N	2:C:12:TYR:CD1	2.81	0.49
3:B:14:ILE:HG23	3:B:15:GLU:N	2.27	0.49
3:B:282:ARG:HD3	3:B:285:ARG:HD2	1.95	0.49
3:B:448:THR:HG22	3:B:452:ARG:HD2	1.93	0.49
3:B:448:THR:O	3:B:450:TRP:N	2.46	0.49
3:B:696:HIS:CG	4:D:57:ILE:HD11	2.47	0.49
3:B:794:ASP:OD1	3:B:794:ASP:N	2.43	0.49
3:B:800:PRO:HD3	3:B:850:VAL:CG2	2.42	0.49
3:B:898:PRO:HB2	3:B:970:VAL:HG21	1.94	0.49
3:B:899:TYR:O	3:B:971:TYR:N	2.39	0.49
4:D:67:PHE:HD2	4:D:121:VAL:CG1	2.24	0.49
4:D:108:MET:HG3	4:D:110:TYR:CE1	2.46	0.49
9:L:8:SER:HB2	9:L:13:LEU:CD1	2.42	0.49
11:P:31:TYR:HE2	11:P:33:ILE:CG1	2.26	0.49
1:Q:357:ASN:O	1:Q:359:GLU:N	2.46	0.49
2:G:258:LEU:HD21	2:G:284:PHE:CE1	2.48	0.49
2:G:379:ILE:HD13	2:G:379:ILE:N	2.26	0.49
3:R:97:TRP:HZ3	3:R:113:GLU:OE2	1.95	0.49
3:R:221:ILE:HD12	3:R:221:ILE:N	2.27	0.49
3:R:278:ILE:CG2	3:R:279:GLY:N	2.76	0.49
3:R:353:LEU:HD13	3:R:404:VAL:HG22	1.94	0.49
3:R:355:ARG:HG2	3:R:356:VAL:N	2.26	0.49
3:R:757:LEU:HD23	3:R:758:TYR:H	1.76	0.49
3:R:759:SER:CB	3:R:862:VAL:O	2.51	0.49
3:R:763:VAL:HG22	3:R:770:GLU:HG3	1.94	0.49
3:R:903:GLY:HA3	4:S:161:LEU:CD1	2.43	0.49
4:S:80:GLU:HA	4:S:83:ILE:HD12	1.95	0.49
6:U:30:SER:CB	6:U:38:TYR:HE1	2.24	0.49
7:V:20:HIS:HB3	7:V:63:ILE:HG21	1.95	0.49
7:V:35:LEU:O	7:V:37:ILE:HG13	2.13	0.49
1:A:397:LEU:HD23	1:A:400:THR:OG1	2.13	0.49
2:C:64:ILE:HG22	2:C:65:ALA:N	2.28	0.49
2:C:330:GLY:O	2:C:335:THR:OG1	2.31	0.49
3:B:108:GLU:OE2	3:B:108:GLU:C	2.56	0.49
3:B:214:PHE:CZ	3:B:297:PHE:HA	2.42	0.49
3:B:655:ILE:HG12	3:B:669:GLN:HG2	1.94	0.49
3:B:805:LYS:O	3:B:808:ASP:CG	2.56	0.49
6:F:17:ALA:O	6:F:21:LEU:HG	2.12	0.49
8:K:51:ILE:O	8:K:51:ILE:HG22	2.13	0.49
2:G:106:ARG:O	2:G:107:LEU:C	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:167:LEU:HD12	3:R:190:ILE:CD1	2.43	0.49
3:R:286:ILE:O	3:R:289:ALA:HB3	2.13	0.49
3:R:457:GLU:C	3:R:458:THR:OG1	2.56	0.49
3:R:563:ILE:HG22	3:R:564:ASN:N	2.28	0.49
3:R:564:ASN:ND2	3:R:564:ASN:O	2.46	0.49
3:R:801:GLU:HG3	11:Z:38:ARG:CZ	2.43	0.49
8:W:14:HIS:O	8:W:15:PHE:C	2.55	0.49
1:A:489:PRO:CB	1:A:858:MET:HG3	2.42	0.49
1:A:558:LYS:NZ	3:R:108:GLU:CG	2.76	0.49
1:A:855:VAL:O	1:A:855:VAL:HG12	2.12	0.49
2:C:337:GLU:HG2	2:C:338:LYS:N	2.18	0.49
2:C:354:LEU:HD13	3:B:1104:LEU:HD21	1.95	0.49
2:C:389:THR:HG22	8:K:77:THR:O	2.12	0.49
3:B:109:ALA:O	3:B:110:GLU:O	2.31	0.49
3:B:153:ILE:HG22	3:B:153:ILE:O	2.13	0.49
3:B:287:GLU:C	3:B:289:ALA:N	2.70	0.49
3:B:353:LEU:HD13	3:B:404:VAL:HG22	1.95	0.49
3:B:367:TYR:C	3:B:367:TYR:CD2	2.90	0.49
3:B:413:LEU:O	3:B:414:LEU:C	2.54	0.49
3:B:705:THR:HG22	3:B:706:ARG:N	2.10	0.49
3:B:1069:TRP:CE3	3:B:1070:TYR:O	2.66	0.49
5:E:88:GLU:HA	5:E:141:LYS:HA	1.95	0.49
5:E:149:VAL:HG13	5:E:159:ARG:C	2.37	0.49
6:F:18:LYS:NZ	6:F:41:LEU:O	2.41	0.49
6:F:57:GLU:O	6:F:59:LEU:N	2.46	0.49
7:H:37:ILE:HD12	7:H:37:ILE:O	2.12	0.49
1:Q:353:ILE:O	1:Q:403:PRO:HA	2.13	0.49
1:Q:704:LEU:HD22	1:Q:781:PHE:CD1	2.48	0.49
3:R:193:THR:HG21	3:R:197:ARG:C	2.38	0.49
3:R:238:ILE:HA	3:R:241:ALA:HB3	1.94	0.49
3:R:478:VAL:HA	3:R:572:SER:HA	1.95	0.49
3:R:536:LEU:O	3:R:539:LYS:N	2.46	0.49
3:R:604:PHE:O	3:R:607:LEU:HB2	2.13	0.49
3:R:717:PRO:HD3	10:Y:53:VAL:HG11	1.93	0.49
3:R:854:GLU:HG3	11:Z:24:VAL:HG11	1.94	0.49
4:S:180:VAL:HG22	4:S:190:LEU:HG	1.95	0.49
5:T:166:GLN:HB2	5:T:169:LEU:CD1	2.29	0.49
7:V:42:LEU:O	7:V:43:PRO:C	2.56	0.49
7:V:80:TYR:O	7:V:81:VAL:CB	2.61	0.49
1:A:525:LEU:HD12	9:L:56:LYS:HE3	1.95	0.49
1:A:696:LEU:C	1:A:696:LEU:HD13	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:258:LEU:O	2:C:262:LEU:HG	2.13	0.49
2:C:326:VAL:O	2:C:326:VAL:HG13	2.12	0.49
2:C:389:THR:HG23	2:C:389:THR:O	2.12	0.49
3:B:147:ASP:OD2	3:B:148:PRO:CD	2.59	0.49
3:B:239:VAL:HG12	3:B:249:GLN:HE22	1.77	0.49
3:B:530:TYR:OH	3:B:536:LEU:CB	2.59	0.49
3:B:699:GLN:NE2	10:N:48:MET:CE	2.74	0.49
3:B:958:LEU:HD23	3:B:958:LEU:O	2.13	0.49
4:D:4:ASN:HA	9:L:90:LEU:CD2	2.41	0.49
5:E:96:GLY:HA2	5:E:110:ILE:CD1	2.43	0.49
10:N:18:TRP:CZ2	10:N:22:ILE:HG21	2.48	0.49
11:P:46:LYS:HB3	11:P:46:LYS:NZ	2.27	0.49
1:Q:261:ILE:O	1:Q:261:ILE:HG22	2.13	0.49
1:Q:502:TYR:CD2	3:R:734:MET:HE1	2.48	0.49
2:G:359:ALA:C	2:G:361:GLY:H	2.21	0.49
2:G:390:MET:O	2:G:391:ARG:HB3	2.12	0.49
3:R:181:SER:O	3:R:182:ASN:CB	2.61	0.49
3:R:396:HIS:C	3:R:400:THR:HG22	2.38	0.49
3:R:435:ARG:CG	3:R:435:ARG:NH1	2.75	0.49
3:R:691:ARG:HB3	3:R:754:PHE:CZ	2.48	0.49
3:R:696:HIS:HE2	3:R:753:THR:HG1	1.59	0.49
3:R:972:ASP:CG	3:R:974:ARG:HG2	2.38	0.49
4:S:26:ASN:O	4:S:29:ARG:HB3	2.13	0.49
5:T:102:GLY:HA2	6:U:40:TYR:CG	2.48	0.49
5:T:113:ILE:CG2	5:T:114:THR:H	2.25	0.49
6:U:41:LEU:C	6:U:43:SER:H	2.16	0.49
8:W:34:ARG:C	8:W:37:SER:HB2	2.38	0.49
8:W:71:ARG:O	8:W:72:GLY:C	2.56	0.49
1:A:15:SER:HA	1:A:203:ARG:HH21	1.77	0.48
1:A:75:ILE:HG23	1:A:75:ILE:O	2.12	0.48
2:C:82:GLY:C	2:C:84:GLN:H	2.21	0.48
2:C:262:LEU:CD2	2:C:269:VAL:HG13	2.36	0.48
2:C:285:GLY:HA2	7:H:50:PRO:HD2	1.94	0.48
2:C:288:ALA:HB2	7:H:17:VAL:HB	1.95	0.48
2:C:311:ARG:HH11	2:C:311:ARG:HG3	1.77	0.48
3:B:20:SER:O	3:B:25:ARG:NH2	2.45	0.48
3:B:99:THR:O	3:B:99:THR:HG22	2.13	0.48
3:B:368:GLN:O	3:B:372:SER:HB3	2.12	0.48
3:B:555:VAL:O	3:B:620:GLU:HG3	2.13	0.48
3:B:569:ASN:CG	3:B:574:ARG:HH22	2.20	0.48
3:B:633:LEU:C	3:B:635:PRO:HD2	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:644:SER:O	3:B:647:ILE:HG13	2.13	0.48
3:B:696:HIS:HE1	3:B:869:LEU:HD23	1.78	0.48
3:B:867:ARG:O	3:B:868:ASP:HB2	2.13	0.48
3:B:1061:CYS:H	3:B:1065:GLY:HA2	1.78	0.48
3:B:1094:SER:O	3:B:1096:ALA:N	2.46	0.48
4:D:24:PHE:CZ	9:L:80:THR:HA	2.47	0.48
5:E:77:TYR:O	5:E:78:VAL:HG23	2.12	0.48
5:E:103:PRO:HB3	6:F:37:THR:OG1	2.13	0.48
6:F:54:LYS:HB2	6:F:54:LYS:NZ	2.27	0.48
6:F:72:LEU:HD23	6:F:86:ILE:CD1	2.42	0.48
1:Q:212:LEU:HD21	1:Q:242:ILE:HD13	1.95	0.48
2:G:37:LEU:C	2:G:39:LYS:H	2.21	0.48
2:G:388:LEU:CD1	8:W:34:ARG:HG3	2.43	0.48
3:R:54:PRO:O	3:R:55:GLY:C	2.55	0.48
3:R:130:ILE:HA	3:R:133:TYR:CE1	2.47	0.48
3:R:189:ILE:CB	3:R:203:GLU:HB2	2.39	0.48
3:R:481:ASN:O	3:R:482:GLU:O	2.31	0.48
3:R:537:ALA:CB	3:R:557:HIS:HE2	2.24	0.48
3:R:551:ASP:OD2	3:R:551:ASP:N	2.42	0.48
3:R:634:THR:HB	3:R:635:PRO:HD3	1.95	0.48
3:R:707:ALA:C	3:R:709:ASP:N	2.71	0.48
3:R:911:ASN:O	3:R:913:HIS:N	2.46	0.48
3:R:971:TYR:O	3:R:973:GLY:N	2.43	0.48
3:R:1013:THR:HB	3:R:1015:GLN:HG3	1.93	0.48
5:T:15:PRO:HA	5:T:18:PHE:CD1	2.48	0.48
5:T:96:GLY:HA2	5:T:110:ILE:CD1	2.43	0.48
8:W:87:ILE:N	8:W:87:ILE:HD12	2.27	0.48
9:X:14:GLU:OE1	9:X:56:LYS:HG2	2.12	0.48
1:A:196:GLY:C	1:A:197:TYR:CD1	2.92	0.48
1:A:407:ILE:HD12	1:A:407:ILE:O	2.13	0.48
1:A:468:GLN:HB2	3:B:1047:ASP:OD2	2.13	0.48
1:A:564:GLY:O	1:A:586:VAL:N	2.42	0.48
1:A:637:ARG:HD3	1:A:640:GLU:OE1	2.13	0.48
1:A:670:VAL:HG23	1:A:671:GLU:N	2.27	0.48
1:A:734:ARG:HG2	3:B:913:HIS:O	2.12	0.48
2:C:104:LEU:O	2:C:104:LEU:HD23	2.13	0.48
2:C:388:LEU:CG	8:K:34:ARG:HG3	2.43	0.48
3:B:65:ILE:HG22	3:B:66:GLY:H	1.78	0.48
3:B:235:ASP:C	3:B:237:ASP:H	2.19	0.48
3:B:292:ILE:O	3:B:292:ILE:HG22	2.13	0.48
3:B:520:VAL:C	3:B:521:ILE:HD12	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:536:LEU:C	3:B:536:LEU:CD1	2.86	0.48
3:B:591:ILE:O	3:B:594:ILE:HG13	2.13	0.48
3:B:733:ASN:HB3	3:B:739:ILE:HG22	1.95	0.48
3:B:778:ALA:HA	3:B:783:TYR:CZ	2.48	0.48
8:K:60:ASP:O	8:K:61:VAL:O	2.31	0.48
1:Q:335:ASP:OD1	1:Q:482:VAL:HB	2.13	0.48
1:Q:349:VAL:HG21	1:Q:409:ARG:NH2	2.28	0.48
1:Q:417:VAL:HG11	1:Q:464:LEU:CD2	2.43	0.48
1:Q:632:PHE:HA	1:Q:635:PHE:HD1	1.75	0.48
2:G:12:TYR:CD1	2:G:12:TYR:N	2.81	0.48
2:G:15:GLU:HA	2:G:18:LYS:CG	2.43	0.48
3:R:11:TRP:O	3:R:14:ILE:HG22	2.13	0.48
3:R:173:LEU:HD22	3:R:333:ASP:HB3	1.95	0.48
3:R:291:GLN:C	3:R:293:ILE:N	2.71	0.48
3:R:388:ASP:O	3:R:389:ILE:C	2.56	0.48
3:R:402:ASN:O	3:R:403:TRP:HB2	2.13	0.48
3:R:555:VAL:O	3:R:620:GLU:HG3	2.12	0.48
3:R:569:ASN:HB3	3:R:574:ARG:CZ	2.43	0.48
3:R:687:ARG:HH11	3:R:687:ARG:HB3	1.78	0.48
3:R:839:THR:O	3:R:840:ARG:C	2.56	0.48
3:R:943:THR:CG2	3:R:944:PRO:HD2	2.36	0.48
8:W:91:SER:OG	8:W:92:LEU:N	2.45	0.48
1:A:369:PRO:HA	1:A:410:HIS:CE1	2.48	0.48
1:A:485:ASN:ND2	3:B:1039:PHE:HE2	2.11	0.48
1:A:558:LYS:HZ1	3:R:108:GLU:CG	2.25	0.48
1:A:620:SER:C	1:A:622:GLU:N	2.72	0.48
2:C:64:ILE:CG2	2:C:65:ALA:N	2.77	0.48
3:B:97:TRP:O	3:B:114:VAL:O	2.31	0.48
3:B:204:ARG:HB2	3:B:213:SER:HG	1.75	0.48
3:B:247:GLU:HA	3:B:250:ASN:HD22	1.78	0.48
3:B:395:ARG:O	3:B:399:ALA:CB	2.62	0.48
3:B:727:MET:HE3	3:B:898:PRO:CG	2.43	0.48
3:B:1061:CYS:N	3:B:1088:LEU:HD23	2.29	0.48
4:D:69:SER:HA	4:D:72:ALA:CB	2.42	0.48
4:D:153:HIS:O	4:D:155:LYS:N	2.36	0.48
11:P:17:GLN:O	11:P:19:LYS:N	2.46	0.48
1:Q:353:ILE:HD12	1:Q:353:ILE:N	2.28	0.48
2:G:258:LEU:O	2:G:262:LEU:HG	2.12	0.48
2:G:327:ARG:CZ	2:G:334:VAL:HG23	2.43	0.48
2:G:349:VAL:HG21	2:G:352:LYS:HB2	1.94	0.48
3:R:75:ARG:HD3	3:R:75:ARG:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:144:ASP:HB3	3:R:682:ALA:HB3	1.96	0.48
4:S:24:PHE:CZ	9:X:80:THR:HA	2.46	0.48
5:T:171:LYS:HB3	5:T:174:TRP:CD1	2.49	0.48
11:Z:31:TYR:HE2	11:Z:33:ILE:CG1	2.26	0.48
11:Z:42:ILE:O	11:Z:42:ILE:HG23	2.13	0.48
1:A:89:HIS:O	1:A:93:PHE:HD1	1.97	0.48
1:A:206:TRP:C	1:A:208:ILE:N	2.71	0.48
1:A:331:ASN:C	1:A:332:ILE:CD1	2.86	0.48
1:A:851:GLY:O	1:A:853:ASP:N	2.46	0.48
3:B:94:ALA:O	3:B:118:ASP:HA	2.13	0.48
3:B:170:ASN:O	3:B:171:ARG:O	2.32	0.48
3:B:325:LEU:O	3:B:326:TYR:C	2.57	0.48
3:B:479:GLY:C	3:B:480:ILE:HG13	2.36	0.48
3:B:533:GLY:C	3:B:535:GLU:H	2.21	0.48
3:B:676:ALA:HB2	3:B:991:GLN:NE2	2.29	0.48
3:B:724:LEU:HD13	3:B:990:TYR:CE2	2.48	0.48
3:B:978:LYS:HE2	4:D:205:LEU:HD13	1.94	0.48
3:B:979:ILE:CD1	3:B:981:SER:H	2.26	0.48
4:D:34:LEU:O	4:D:36:VAL:N	2.46	0.48
5:E:97:ILE:HD11	5:E:136:ILE:HG21	1.95	0.48
1:Q:84:VAL:O	1:Q:87:VAL:HG12	2.13	0.48
1:Q:507:TYR:O	1:Q:508:LEU:CB	2.60	0.48
1:Q:870:ARG:NH2	2:G:57:LYS:O	2.47	0.48
2:G:330:GLY:O	2:G:335:THR:OG1	2.31	0.48
3:R:239:VAL:HG12	3:R:249:GLN:HE22	1.78	0.48
3:R:278:ILE:HG23	3:R:285:ARG:NH2	2.28	0.48
3:R:579:LEU:HD12	3:R:616:LEU:CD1	2.39	0.48
3:R:1036:LEU:O	3:R:1039:PHE:O	2.31	0.48
4:S:112:LYS:HB3	4:S:126:GLY:O	2.13	0.48
4:S:131:VAL:CG2	4:S:132:LEU:N	2.63	0.48
4:S:204:THR:O	4:S:205:LEU:C	2.56	0.48
5:T:147:ILE:HG12	5:T:163:THR:HB	1.95	0.48
9:X:8:SER:HB2	9:X:13:LEU:HD13	1.95	0.48
11:Z:17:GLN:C	11:Z:19:LYS:N	2.71	0.48
1:A:392:LYS:O	1:A:394:ARG:N	2.46	0.48
1:A:418:LEU:HD23	1:A:430:MET:CE	2.44	0.48
1:A:827:LEU:HD13	2:C:319:VAL:HG21	1.95	0.48
1:A:833:GLU:CG	1:A:839:ARG:HG3	2.43	0.48
3:B:52:GLU:CB	3:B:56:LEU:HB3	2.42	0.48
3:B:75:ARG:N	3:B:75:ARG:HD3	2.29	0.48
3:B:249:GLN:O	3:B:250:ASN:C	2.56	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:478:VAL:HA	3:B:572:SER:HA	1.95	0.48
3:B:544:ARG:HG3	3:B:544:ARG:NH1	2.25	0.48
3:B:627:ALA:O	3:B:628:LEU:C	2.56	0.48
3:B:643:TRP:CZ3	3:B:645:PRO:HB2	2.49	0.48
4:D:63:ALA:HB1	4:D:155:LYS:NZ	2.27	0.48
4:D:98:ILE:HD11	4:D:114:ILE:CG2	2.32	0.48
4:D:106:PRO:HD3	4:D:135:THR:HG23	1.95	0.48
5:E:149:VAL:HG11	5:E:160:ILE:HD12	1.96	0.48
8:K:26:ARG:HG2	8:K:90:LEU:HD13	1.96	0.48
9:L:33:ARG:HG2	9:L:41:ALA:HB3	1.94	0.48
10:N:22:ILE:O	10:N:26:ASN:ND2	2.45	0.48
10:N:55:ILE:HD13	10:N:55:ILE:N	2.27	0.48
1:Q:189:ASP:O	1:Q:199:PRO:HG3	2.13	0.48
1:Q:428:ILE:HG21	1:Q:495:ILE:HD13	1.95	0.48
1:Q:475:GLU:OE1	3:R:1043:MET:HB2	2.13	0.48
1:Q:551:VAL:HG13	1:Q:552:ILE:HG23	1.94	0.48
2:G:67:GLY:HA2	2:G:385:MET:HE1	1.95	0.48
2:G:126:LEU:HG	2:G:249:TYR:O	2.14	0.48
2:G:389:THR:HG23	2:G:389:THR:O	2.12	0.48
3:R:38:LYS:CG	3:R:39:LEU:H	2.16	0.48
3:R:84:GLU:O	3:R:88:ARG:N	2.38	0.48
3:R:107:ILE:HG12	3:R:110:GLU:OE2	2.14	0.48
3:R:292:ILE:O	3:R:292:ILE:HG22	2.14	0.48
3:R:805:LYS:O	3:R:808:ASP:CG	2.56	0.48
3:R:1076:LYS:O	3:R:1078:VAL:HG23	2.13	0.48
4:S:12:ARG:NH2	4:S:14:ASP:OD2	2.46	0.48
4:S:205:LEU:O	4:S:207:GLU:N	2.47	0.48
5:T:96:GLY:HA2	5:T:110:ILE:HG12	1.95	0.48
5:T:141:LYS:HB2	5:T:172:LEU:CD1	2.43	0.48
8:W:21:SER:C	8:W:23:TRP:H	2.21	0.48
1:A:17:ASP:O	1:A:21:LYS:HG3	2.14	0.48
1:A:203:ARG:HH22	1:A:206:TRP:CD1	2.30	0.48
1:A:249:LEU:HD12	1:A:269:LEU:HD11	1.95	0.48
1:A:417:VAL:HG13	1:A:465:HIS:O	2.14	0.48
1:A:418:LEU:HD23	1:A:430:MET:HE1	1.96	0.48
1:A:700:ILE:O	1:A:704:LEU:HG	2.14	0.48
3:B:301:LEU:CD2	3:B:483:ARG:HH21	2.22	0.48
3:B:478:VAL:HA	3:B:572:SER:CB	2.43	0.48
3:B:687:ARG:HH11	3:B:687:ARG:CB	2.25	0.48
5:E:2:TYR:CZ	6:F:41:LEU:HD21	2.49	0.48
7:H:23:LEU:CD2	7:H:64:ARG:HB2	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K:30:TYR:N	8:K:30:TYR:CD1	2.81	0.48
1:Q:363:GLN:O	1:Q:366:ILE:CG2	2.62	0.48
3:R:122:MET:HB2	3:R:152:PHE:CE1	2.48	0.48
3:R:249:GLN:C	3:R:253:PHE:CE1	2.92	0.48
3:R:287:GLU:C	3:R:289:ALA:N	2.71	0.48
3:R:290:GLN:NE2	3:R:308:ARG:HH12	2.12	0.48
3:R:373:LYS:CG	3:R:375:ARG:HB2	2.43	0.48
3:R:448:THR:O	3:R:450:TRP:N	2.46	0.48
3:R:1014:ARG:HD2	3:R:1095:TYR:CE1	2.48	0.48
4:S:167:TYR:HD2	4:S:222:VAL:HG21	1.78	0.48
5:T:1:MET:HE2	6:U:11:TYR:HD2	1.78	0.48
5:T:93:ASP:CG	5:T:94:ASN:N	2.71	0.48
5:T:149:VAL:HG13	5:T:159:ARG:C	2.38	0.48
1:A:294:PRO:O	1:A:295:LEU:O	2.30	0.48
1:A:417:VAL:HG11	1:A:464:LEU:CD2	2.43	0.48
2:C:37:LEU:C	2:C:39:LYS:H	2.21	0.48
2:C:286:ILE:CD1	7:H:45:ILE:HG13	2.33	0.48
3:B:229:ALA:HB1	3:B:269:LEU:HD23	1.96	0.48
3:B:724:LEU:CD1	3:B:908:ILE:HG22	2.41	0.48
3:B:958:LEU:C	3:B:958:LEU:CD2	2.87	0.48
3:B:1033:ARG:NH1	3:B:1033:ARG:CG	2.72	0.48
4:D:205:LEU:O	4:D:206:CYS:C	2.54	0.48
7:H:43:PRO:O	7:H:44:TRP:CB	2.60	0.48
1:Q:4:LYS:HZ1	3:R:1115:LEU:HB3	1.75	0.48
1:Q:89:HIS:O	1:Q:93:PHE:HD1	1.95	0.48
1:Q:192:VAL:CG1	1:Q:199:PRO:HD3	2.43	0.48
1:Q:573:ARG:O	1:Q:574:LEU:C	2.56	0.48
2:G:145:GLU:HG2	2:G:240:ALA:N	2.24	0.48
3:R:63:ILE:HG13	3:R:98:LEU:CA	2.43	0.48
3:R:146:LYS:HE2	3:R:715:ASN:OD1	2.13	0.48
3:R:191:SER:OG	3:R:299:PRO:HD2	2.14	0.48
3:R:282:ARG:HD3	3:R:285:ARG:HD2	1.94	0.48
3:R:346:ALA:O	3:R:350:PHE:N	2.46	0.48
3:R:497:VAL:HG12	3:R:498:GLU:H	1.72	0.48
3:R:577:ARG:HE	3:R:578:PRO:HD2	1.78	0.48
3:R:790:ARG:C	3:R:792:LEU:H	2.22	0.48
3:R:1100:LEU:O	3:R:1101:ILE:C	2.57	0.48
5:T:101:LEU:HD11	5:T:160:ILE:HG21	1.95	0.48
7:V:45:ILE:HG22	7:V:80:TYR:N	2.23	0.48
9:X:7:LYS:HE3	9:X:12:TYR:HE2	1.77	0.48
9:X:87:ILE:O	9:X:91:THR:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:507:TYR:HB2	1:A:511:VAL:CG1	2.40	0.48
1:A:647:ARG:NH2	4:D:211:ARG:HH12	2.12	0.48
1:A:854:GLY:O	2:C:65:ALA:HA	2.12	0.48
2:C:271:LYS:O	2:C:272:VAL:C	2.57	0.48
2:C:359:ALA:C	2:C:361:GLY:N	2.72	0.48
2:C:382:GLY:C	2:C:384:GLY:N	2.72	0.48
3:B:134:THR:N	3:B:137:LYS:HB2	2.29	0.48
3:B:294:ASP:O	3:B:303:THR:HA	2.14	0.48
3:B:457:GLU:O	3:B:458:THR:OG1	2.30	0.48
3:B:480:ILE:CG2	3:B:481:ASN:N	2.77	0.48
3:B:535:GLU:O	3:B:536:LEU:C	2.57	0.48
3:B:741:ASN:O	3:B:745:VAL:HG23	2.13	0.48
4:D:45:TYR:CE1	11:P:44:ILE:HG23	2.49	0.48
5:E:51:VAL:C	5:E:53:THR:H	2.20	0.48
8:K:41:LEU:O	8:K:42:GLN:C	2.55	0.48
8:K:87:ILE:HD12	8:K:87:ILE:N	2.28	0.48
1:Q:358:ILE:O	1:Q:362:ARG:HG3	2.14	0.48
1:Q:407:ILE:HD12	1:Q:407:ILE:O	2.13	0.48
1:Q:600:LYS:HE3	1:Q:732:GLY:CA	2.33	0.48
1:Q:807:VAL:CG2	3:R:443:ARG:HD3	2.35	0.48
2:G:15:GLU:HA	2:G:18:LYS:HG3	1.96	0.48
2:G:278:ARG:O	2:G:282:GLU:HG3	2.14	0.48
2:G:286:ILE:HG13	7:V:49:ASP:CG	2.39	0.48
3:R:97:TRP:O	3:R:114:VAL:O	2.32	0.48
3:R:128:ASP:OD1	3:R:130:ILE:HG13	2.14	0.48
3:R:724:LEU:HD13	3:R:990:TYR:HE2	1.78	0.48
3:R:850:VAL:O	11:Z:35:PHE:HB2	2.14	0.48
3:R:921:LEU:O	3:R:923:GLN:N	2.46	0.48
3:R:950:ILE:C	3:R:952:GLN:N	2.68	0.48
4:S:108:MET:HG3	4:S:110:TYR:CE1	2.48	0.48
8:W:50:LEU:CD2	8:W:74:LEU:HA	2.43	0.48
9:X:67:ASP:C	9:X:69:LEU:N	2.70	0.48
1:A:23:SER:C	1:A:24:VAL:HG13	2.38	0.48
1:A:87:VAL:HG13	1:A:88:LYS:N	2.28	0.48
1:A:394:ARG:O	1:A:395:LYS:C	2.57	0.48
1:A:551:VAL:HG13	1:A:552:ILE:HG23	1.95	0.48
2:C:390:MET:SD	5:E:57:GLY:C	2.96	0.48
3:B:122:MET:HB2	3:B:152:PHE:CE1	2.49	0.48
3:B:248:VAL:CG1	3:B:329:ARG:HH12	2.20	0.48
3:B:690:THR:O	3:B:691:ARG:O	2.31	0.48
3:B:700:ARG:HB3	10:N:51:SER:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:735:GLU:O	3:B:736:ASP:O	2.32	0.48
3:B:790:ARG:C	3:B:792:LEU:H	2.21	0.48
3:B:940:VAL:HG23	3:B:947:LYS:HD3	1.95	0.48
3:B:1014:ARG:HD2	3:B:1095:TYR:CE1	2.48	0.48
4:D:71:GLU:O	4:D:73:LEU:N	2.46	0.48
4:D:129:PRO:CG	10:N:15:ALA:HB1	2.44	0.48
4:D:141:LEU:C	4:D:141:LEU:HD12	2.38	0.48
8:K:71:ARG:HB3	8:K:73:VAL:HG13	1.96	0.48
1:Q:420:ASN:HD22	1:Q:421:ARG:H	1.62	0.48
2:G:331:ARG:CD	2:G:348:GLU:HB3	2.42	0.48
3:R:412:GLN:NE2	3:R:425:HIS:HE1	2.12	0.48
3:R:533:GLY:C	3:R:535:GLU:H	2.22	0.48
3:R:727:MET:HA	3:R:912:PRO:HG2	1.96	0.48
3:R:740:MET:HE2	3:R:888:ILE:CD1	2.43	0.48
3:R:840:ARG:HB2	3:R:843:GLU:CB	2.44	0.48
3:R:890:MET:HG2	3:R:892:ILE:HD11	1.96	0.48
3:R:904:VAL:HG22	10:Y:44:CYS:HB3	1.96	0.48
4:S:203:CYS:SG	4:S:204:THR:N	2.87	0.48
6:U:18:LYS:HD2	6:U:45:GLU:HG2	1.96	0.48
6:U:56:ILE:O	6:U:59:LEU:HB3	2.14	0.48
2:C:269:VAL:CA	2:C:272:VAL:HG23	2.38	0.48
3:B:24:VAL:HG21	3:B:426:LEU:HD12	1.95	0.48
3:B:270:ASP:C	3:B:272:ILE:N	2.71	0.48
3:B:360:ALA:HB2	3:B:393:ARG:HH12	1.79	0.48
3:B:430:ILE:HG22	3:B:431:SER:O	2.14	0.48
3:B:557:HIS:N	3:B:623:ASN:ND2	2.43	0.48
3:B:723:ILE:HD12	10:N:43:TYR:CE1	2.43	0.48
3:B:724:LEU:HD13	3:B:990:TYR:HE2	1.79	0.48
3:B:740:MET:HE2	3:B:888:ILE:HD12	1.96	0.48
3:B:1088:LEU:C	3:B:1089:PHE:HD2	2.22	0.48
4:D:167:TYR:HD2	4:D:222:VAL:HG21	1.78	0.48
4:D:180:VAL:HG21	4:D:190:LEU:HG	1.93	0.48
5:E:171:LYS:HB3	5:E:174:TRP:CD1	2.49	0.48
7:H:45:ILE:HB	7:H:79:ARG:CB	2.42	0.48
10:N:22:ILE:HD13	10:N:23:THR:H	1.78	0.48
1:Q:7:LYS:HD3	3:R:1116:GLU:CD	2.39	0.48
1:Q:87:VAL:O	1:Q:91:TYR:HB2	2.14	0.48
1:Q:194:ILE:O	1:Q:194:ILE:HG22	2.12	0.48
1:Q:387:ASP:OD2	1:Q:389:ARG:N	2.47	0.48
1:Q:764:ARG:NH2	3:R:624:ALA:O	2.47	0.48
2:G:262:LEU:CD2	2:G:269:VAL:HG13	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:359:ALA:C	2:G:361:GLY:N	2.71	0.48
2:G:373:ILE:CD1	3:R:1049:LEU:HD22	2.44	0.48
3:R:62:LYS:C	3:R:63:ILE:HD12	2.38	0.48
3:R:304:SER:O	3:R:305:ALA:C	2.56	0.48
3:R:373:LYS:HE3	3:R:375:ARG:CD	2.37	0.48
4:S:61:ARG:HH21	10:Y:2:LEU:HD13	1.78	0.48
4:S:205:LEU:O	4:S:206:CYS:C	2.57	0.48
5:T:170:GLY:H	5:T:175:ILE:HD11	1.76	0.48
6:U:30:SER:HB3	6:U:38:TYR:CE1	2.49	0.48
8:W:71:ARG:HB3	8:W:73:VAL:HG13	1.96	0.48
9:X:83:TYR:O	9:X:87:ILE:HB	2.14	0.48
1:A:27:ILE:HB	1:A:75:ILE:CD1	2.44	0.47
1:A:87:VAL:O	1:A:91:TYR:HB2	2.14	0.47
1:A:193:GLU:C	1:A:195:LEU:N	2.71	0.47
1:A:390:TYR:O	1:A:391:VAL:HB	2.14	0.47
1:A:415:ASP:H	1:A:435:VAL:HG12	1.79	0.47
1:A:573:ARG:O	1:A:574:LEU:C	2.57	0.47
1:A:747:LEU:HG	1:A:784:SER:O	2.14	0.47
1:A:872:PHE:CD2	1:A:876:VAL:HG11	2.49	0.47
2:C:28:ILE:HG21	8:K:14:HIS:HB3	1.96	0.47
2:C:35:LEU:O	2:C:39:LYS:HE3	2.14	0.47
2:C:349:VAL:HG21	2:C:352:LYS:HB2	1.96	0.47
3:B:541:ARG:NH2	3:B:557:HIS:CD2	2.82	0.47
3:B:579:LEU:CD1	3:B:616:LEU:HD12	2.38	0.47
3:B:911:ASN:O	3:B:913:HIS:N	2.47	0.47
3:B:974:ARG:HB2	9:L:22:HIS:CD2	2.48	0.47
4:D:131:VAL:HA	10:N:2:LEU:HD11	1.94	0.47
4:D:175:ASN:OD1	4:D:195:LEU:HG	2.14	0.47
4:D:250:ILE:H	4:D:250:ILE:HG13	1.42	0.47
7:H:45:ILE:CG2	7:H:79:ARG:HB3	2.43	0.47
7:H:49:ASP:CG	7:H:50:PRO:HD2	2.39	0.47
1:Q:193:GLU:C	1:Q:195:LEU:H	2.22	0.47
1:Q:196:GLY:HA3	2:G:360:ARG:HH21	1.78	0.47
1:Q:203:ARG:HD3	1:Q:203:ARG:N	2.29	0.47
1:Q:713:ASP:O	1:Q:717:LYS:HD2	2.14	0.47
1:Q:720:ASP:C	1:Q:722:PHE:N	2.71	0.47
1:Q:734:ARG:HG2	3:R:913:HIS:O	2.14	0.47
2:G:60:SER:O	2:G:63:LEU:HB3	2.14	0.47
2:G:298:SER:O	2:G:302:ALA:HB2	2.14	0.47
3:R:238:ILE:HA	3:R:241:ALA:CB	2.44	0.47
3:R:270:ASP:C	3:R:272:ILE:N	2.70	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:476:ILE:N	3:R:476:ILE:CD1	2.76	0.47
3:R:569:ASN:HB3	3:R:574:ARG:HH12	1.79	0.47
6:U:21:LEU:HA	6:U:24:VAL:HG23	1.96	0.47
8:W:26:ARG:CG	8:W:90:LEU:HD13	2.44	0.47
10:Y:18:TRP:CH2	10:Y:54:ASP:OD1	2.67	0.47
1:A:551:VAL:CG1	1:A:552:ILE:N	2.72	0.47
1:A:870:ARG:NH2	2:C:57:LYS:O	2.47	0.47
2:C:112:ASP:O	2:C:113:ALA:CB	2.62	0.47
3:B:238:ILE:HA	3:B:241:ALA:HB3	1.95	0.47
3:B:536:LEU:O	3:B:537:ALA:C	2.57	0.47
3:B:579:LEU:HD12	3:B:616:LEU:CD1	2.38	0.47
3:B:604:PHE:O	3:B:607:LEU:HB2	2.14	0.47
3:B:663:SER:CB	3:B:664:PRO:CD	2.92	0.47
3:B:922:GLY:O	3:B:926:GLU:N	2.39	0.47
3:B:972:ASP:HB3	3:B:975:THR:CG2	2.44	0.47
3:B:972:ASP:O	3:B:974:ARG:N	2.48	0.47
3:B:1059:TYR:CD2	3:B:1090:PRO:HG3	2.50	0.47
3:B:1119:VAL:HG13	5:E:10:ILE:CD1	2.44	0.47
4:D:21:PRO:HB2	4:D:23:GLU:OE1	2.14	0.47
4:D:66:PRO:CG	10:N:13:LEU:HD11	2.45	0.47
5:E:23:ASN:O	5:E:24:GLU:C	2.58	0.47
5:E:82:GLN:CA	5:E:145:ARG:HG3	2.40	0.47
1:Q:342:ILE:HD13	1:Q:342:ILE:N	2.29	0.47
1:Q:573:ARG:HA	1:Q:582:HIS:CD2	2.49	0.47
1:Q:782:ILE:HG22	1:Q:784:SER:H	1.77	0.47
1:Q:814:SER:O	1:Q:818:TYR:HB2	2.15	0.47
2:G:82:GLY:C	2:G:84:GLN:H	2.22	0.47
2:G:311:ARG:N	2:G:311:ARG:CD	2.77	0.47
2:G:392:PRO:HB3	5:T:22:LEU:CD2	2.44	0.47
3:R:86:ARG:HA	3:R:156:GLY:HA3	1.95	0.47
3:R:206:LYS:HE3	3:R:220:LYS:HZ2	1.79	0.47
3:R:235:ASP:C	3:R:237:ASP:H	2.21	0.47
3:R:244:LEU:HD13	3:R:500:VAL:CB	2.42	0.47
3:R:416:ARG:NH1	3:R:687:ARG:HH22	2.04	0.47
3:R:724:LEU:CD1	3:R:908:ILE:HG22	2.42	0.47
4:S:175:ASN:C	4:S:195:LEU:HD21	2.39	0.47
5:T:23:ASN:O	5:T:24:GLU:C	2.57	0.47
6:U:18:LYS:HZ2	6:U:45:GLU:HG2	1.78	0.47
6:U:79:THR:C	6:U:81:ASP:H	2.22	0.47
9:X:35:ILE:CD1	9:X:75:ASN:ND2	2.77	0.47
1:A:316:LYS:HE2	3:B:1094:SER:OG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:525:LEU:HG	9:L:40:PHE:HZ	1.79	0.47
1:A:747:LEU:HD12	1:A:790:LEU:HD11	1.96	0.47
2:C:15:GLU:HA	2:C:18:LYS:CG	2.44	0.47
3:B:53:ILE:HB	3:B:54:PRO:HD3	1.96	0.47
3:B:65:ILE:H	3:B:65:ILE:CD1	2.05	0.47
3:B:146:LYS:HE2	3:B:715:ASN:OD1	2.14	0.47
3:B:249:GLN:HB2	3:B:253:PHE:CE1	2.49	0.47
3:B:297:PHE:O	3:B:298:LEU:HB2	2.15	0.47
3:B:402:ASN:O	3:B:403:TRP:HB2	2.12	0.47
3:B:407:ARG:HE	3:B:407:ARG:CA	2.28	0.47
3:B:654:ILE:HD12	3:B:654:ILE:N	2.26	0.47
3:B:679:LEU:HD23	3:B:716:ARG:CD	2.45	0.47
3:B:1099:LEU:O	3:B:1102:GLN:HB2	2.14	0.47
5:E:119:LYS:HE3	5:E:130:GLU:OE2	2.14	0.47
5:E:168:TYR:CE2	6:F:81:ASP:HB3	2.49	0.47
1:Q:8:GLY:HA2	2:G:365:GLU:HA	1.95	0.47
1:Q:390:TYR:O	1:Q:391:VAL:CB	2.62	0.47
1:Q:421:ARG:HG3	1:Q:462:MET:HG2	1.96	0.47
1:Q:524:ILE:O	1:Q:524:ILE:HG22	2.14	0.47
1:Q:563:HIS:ND1	1:Q:876:VAL:HG13	2.29	0.47
1:Q:764:ARG:CB	1:Q:764:ARG:NH1	2.77	0.47
2:G:131:LYS:O	2:G:249:TYR:N	2.47	0.47
2:G:271:LYS:O	2:G:272:VAL:C	2.57	0.47
3:R:28:LEU:C	3:R:30:SER:N	2.72	0.47
3:R:80:ILE:HD11	3:R:92:TYR:HA	1.95	0.47
3:R:430:ILE:HG12	3:R:467:VAL:CG2	2.40	0.47
4:S:94:THR:O	4:S:95:LYS:HG3	2.15	0.47
4:S:247:LYS:HA	4:S:250:ILE:CD1	2.44	0.47
5:T:81:VAL:O	5:T:82:GLN:CB	2.62	0.47
6:U:33:LEU:O	6:U:34:LEU:HD23	2.15	0.47
8:W:28:THR:O	8:W:29:ARG:C	2.57	0.47
9:X:33:ARG:HG2	9:X:41:ALA:HB3	1.95	0.47
1:A:196:GLY:HA3	2:C:360:ARG:HH21	1.80	0.47
1:A:208:ILE:N	1:A:208:ILE:HD12	2.30	0.47
1:A:220:ARG:H	1:A:221:PRO:CD	2.27	0.47
1:A:276:TYR:CD2	1:A:277:PHE:HE1	2.31	0.47
1:A:353:ILE:O	1:A:403:PRO:HA	2.13	0.47
1:A:431:MET:HB2	1:A:453:TYR:OH	2.14	0.47
2:C:51:ILE:O	2:C:55:ALA:HB2	2.13	0.47
2:C:311:ARG:CD	2:C:311:ARG:N	2.77	0.47
3:B:34:PHE:CE1	3:B:351:ALA:HA	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:63:ILE:CD1	3:B:63:ILE:N	2.75	0.47
3:B:393:ARG:NE	3:B:403:TRP:HZ3	2.06	0.47
3:B:590:THR:O	3:B:593:ASP:HB2	2.14	0.47
3:B:669:GLN:HA	3:B:669:GLN:NE2	2.30	0.47
3:B:759:SER:CB	3:B:863:LYS:HA	2.44	0.47
3:B:1051:ASP:HA	3:B:1055:ARG:HG2	1.96	0.47
4:D:254:GLU:HG3	9:L:77:ARG:HH12	1.79	0.47
6:F:52:ALA:C	6:F:54:LYS:N	2.72	0.47
8:K:49:ALA:O	8:K:50:LEU:C	2.57	0.47
9:L:47:HIS:O	9:L:48:PRO:C	2.57	0.47
1:Q:59:PRO:HG2	1:Q:61:CYS:SG	2.54	0.47
1:Q:181:ARG:NH1	1:Q:185:GLU:OE2	2.47	0.47
1:Q:294:PRO:O	1:Q:295:LEU:C	2.56	0.47
1:Q:305:LYS:N	1:Q:310:ARG:HD2	2.28	0.47
1:Q:667:ARG:HG2	1:Q:667:ARG:HH11	1.80	0.47
1:Q:864:LYS:HE2	7:V:71:LEU:O	2.14	0.47
2:G:37:LEU:O	2:G:39:LYS:N	2.47	0.47
2:G:336:GLY:C	2:G:337:GLU:OE1	2.57	0.47
2:G:386:VAL:HG21	8:W:31:GLU:HA	1.95	0.47
3:R:393:ARG:HG2	3:R:393:ARG:O	2.14	0.47
9:X:12:TYR:HA	9:X:57:ILE:O	2.14	0.47
9:X:24:LEU:O	9:X:28:ILE:HG12	2.14	0.47
1:A:607:GLN:HB2	1:A:608:PRO:CD	2.43	0.47
1:A:664:GLU:OE1	1:A:707:LEU:HD22	2.14	0.47
3:B:56:LEU:CD1	3:B:104:GLU:HG2	2.45	0.47
3:B:330:ARG:HH11	3:B:330:ARG:CG	2.22	0.47
3:B:492:MET:HE1	3:B:540:ILE:HG12	1.95	0.47
3:B:633:LEU:O	3:B:635:PRO:HD2	2.15	0.47
3:B:669:GLN:NE2	3:B:669:GLN:CA	2.78	0.47
3:B:1040:GLY:HA3	8:K:30:TYR:HE2	1.80	0.47
3:B:1078:VAL:HG11	3:B:1082:HIS:HB3	1.96	0.47
4:D:96:ILE:CG1	4:D:143:ALA:HB3	2.44	0.47
4:D:133:LEU:HD21	4:D:139:ILE:HD11	1.96	0.47
5:E:168:TYR:CZ	6:F:81:ASP:HB3	2.49	0.47
9:L:47:HIS:NE2	9:L:49:LEU:HB2	2.30	0.47
1:Q:244:ARG:O	1:Q:248:ARG:HG3	2.14	0.47
1:Q:282:PRO:O	1:Q:283:GLY:O	2.32	0.47
1:Q:449:VAL:O	1:Q:452:PRO:HG2	2.14	0.47
1:Q:728:MET:HE3	3:R:913:HIS:ND1	2.29	0.47
2:G:277:ILE:HG22	2:G:278:ARG:N	2.25	0.47
3:R:70:VAL:CG1	3:R:80:ILE:HG21	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:81:SER:O	3:R:84:GLU:N	2.37	0.47
3:R:669:GLN:HG2	3:R:881:ARG:O	2.15	0.47
3:R:687:ARG:NH1	3:R:687:ARG:HG3	2.28	0.47
3:R:790:ARG:C	3:R:792:LEU:N	2.69	0.47
4:S:47:ILE:HB	4:S:140:SER:OG	2.14	0.47
5:T:18:PHE:CZ	8:W:42:GLN:HG2	2.49	0.47
5:T:29:GLU:OE1	5:T:29:GLU:HA	2.15	0.47
8:W:16:ASN:O	8:W:19:PHE:HB3	2.14	0.47
1:A:219:ILE:N	1:A:219:ILE:CD1	2.78	0.47
1:A:345:LYS:O	1:A:346:THR:C	2.56	0.47
1:A:807:VAL:CG1	3:B:443:ARG:NH1	2.77	0.47
2:C:12:TYR:HD1	2:C:12:TYR:H	1.62	0.47
2:C:275:ASN:O	2:C:275:ASN:OD1	2.33	0.47
2:C:365:GLU:HG2	2:C:366:PHE:N	2.30	0.47
3:B:538:ASN:O	3:B:542:GLU:HG3	2.14	0.47
3:B:764:LYS:NZ	3:B:814:VAL:O	2.41	0.47
3:B:1036:LEU:O	3:B:1039:PHE:O	2.33	0.47
3:B:1043:MET:HE3	5:E:61:PHE:CD2	2.49	0.47
3:B:1079:CYS:SG	3:B:1080:PRO:CD	3.03	0.47
5:E:97:ILE:CD1	5:E:136:ILE:HG21	2.44	0.47
6:F:54:LYS:HZ2	6:F:54:LYS:CB	2.28	0.47
6:F:72:LEU:HD23	6:F:86:ILE:HD13	1.95	0.47
6:F:79:THR:C	6:F:81:ASP:H	2.22	0.47
1:Q:208:ILE:N	1:Q:208:ILE:HD12	2.28	0.47
1:Q:341:GLU:O	1:Q:345:LYS:HG3	2.14	0.47
1:Q:415:ASP:O	1:Q:435:VAL:HG12	2.13	0.47
1:Q:444:ARG:HG3	1:Q:444:ARG:HH11	1.79	0.47
1:Q:474:ALA:C	1:Q:476:ALA:N	2.70	0.47
1:Q:490:ARG:CZ	2:G:80:GLU:HG3	2.45	0.47
1:Q:551:VAL:CG1	1:Q:552:ILE:N	2.75	0.47
1:Q:757:ILE:O	1:Q:779:ARG:HA	2.15	0.47
2:G:12:TYR:H	2:G:12:TYR:HD1	1.63	0.47
2:G:15:GLU:HA	2:G:18:LYS:HD2	1.95	0.47
2:G:86:THR:O	2:G:104:LEU:CD1	2.62	0.47
2:G:132:ARG:H	2:G:132:ARG:NE	2.11	0.47
2:G:275:ASN:OD1	2:G:275:ASN:O	2.33	0.47
2:G:379:ILE:CD1	3:R:1045:LEU:HD22	2.44	0.47
3:R:457:GLU:O	3:R:458:THR:OG1	2.31	0.47
3:R:536:LEU:CD2	3:R:540:ILE:HG13	2.44	0.47
3:R:633:LEU:O	3:R:635:PRO:N	2.48	0.47
3:R:921:LEU:C	3:R:923:GLN:N	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:958:LEU:C	3:R:958:LEU:CD2	2.88	0.47
3:R:1033:ARG:HG3	3:R:1034:ASP:N	2.28	0.47
3:R:1069:TRP:NE1	3:R:1088:LEU:HD22	2.27	0.47
4:S:101:GLU:HG2	4:S:102:ALA:N	2.28	0.47
4:S:123:PRO:C	4:S:125:SER:H	2.23	0.47
10:Y:22:ILE:HG12	10:Y:23:THR:N	2.29	0.47
1:A:23:SER:OG	1:A:24:VAL:N	2.46	0.47
1:A:27:ILE:HB	1:A:75:ILE:HD12	1.96	0.47
1:A:214:VAL:HG22	1:A:239:LEU:HD21	1.95	0.47
1:A:217:ILE:O	1:A:221:PRO:HD3	2.14	0.47
1:A:532:ILE:O	1:A:533:ASP:C	2.57	0.47
1:A:557:PRO:HD3	1:A:623:TYR:OH	2.15	0.47
1:A:743:MET:HG3	3:B:919:MET:HE2	1.94	0.47
1:A:757:ILE:O	1:A:779:ARG:HA	2.15	0.47
1:A:759:ARG:HH21	1:A:763:THR:HG23	1.80	0.47
1:A:819:MET:HA	1:A:822:ARG:HE	1.80	0.47
1:A:820:GLN:O	1:A:823:LEU:HD12	2.14	0.47
3:B:63:ILE:HG13	3:B:98:LEU:CA	2.44	0.47
3:B:97:TRP:HZ3	3:B:113:GLU:OE2	1.97	0.47
3:B:138:LEU:O	3:B:139:ILE:C	2.58	0.47
3:B:244:LEU:HD13	3:B:500:VAL:CB	2.43	0.47
3:B:381:LEU:O	3:B:385:VAL:HG23	2.15	0.47
3:B:381:LEU:C	3:B:383:ALA:H	2.22	0.47
3:B:435:ARG:C	3:B:437:GLN:H	2.21	0.47
3:B:485:VAL:C	3:B:487:LYS:H	2.23	0.47
3:B:560:THR:HG22	3:B:563:ILE:H	1.80	0.47
3:B:702:LEU:HD22	10:N:47:ARG:NH1	2.29	0.47
3:B:774:VAL:O	3:B:775:MET:C	2.57	0.47
3:B:941:ASP:C	3:B:941:ASP:OD1	2.57	0.47
3:B:978:LYS:NZ	4:D:205:LEU:HD13	2.29	0.47
4:D:34:LEU:HD22	4:D:151:LYS:CB	2.43	0.47
4:D:80:GLU:HA	4:D:83:ILE:CD1	2.45	0.47
4:D:94:THR:O	4:D:95:LYS:HG3	2.15	0.47
4:D:101:GLU:CG	4:D:102:ALA:H	2.28	0.47
4:D:108:MET:HE3	10:N:19:GLN:NE2	2.29	0.47
4:D:172:ILE:HD12	4:D:172:ILE:N	2.30	0.47
4:D:247:LYS:HA	4:D:250:ILE:CD1	2.45	0.47
4:D:263:VAL:O	4:D:263:VAL:HG12	2.15	0.47
5:E:21:PRO:HG2	5:E:24:GLU:OE2	2.15	0.47
5:E:123:VAL:O	5:E:125:GLY:N	2.48	0.47
7:H:81:VAL:O	7:H:82:ILE:CG1	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K:41:LEU:HD23	8:K:45:MET:HG3	1.96	0.47
8:K:49:ALA:O	8:K:50:LEU:O	2.32	0.47
9:L:15:LEU:O	9:L:54:ILE:HA	2.15	0.47
1:Q:17:ASP:O	1:Q:21:LYS:HG3	2.15	0.47
1:Q:217:ILE:O	1:Q:221:PRO:HD3	2.15	0.47
1:Q:415:ASP:H	1:Q:435:VAL:HG12	1.79	0.47
1:Q:428:ILE:CG2	1:Q:452:PRO:HB2	2.44	0.47
1:Q:488:THR:HG22	1:Q:490:ARG:N	2.29	0.47
1:Q:498:ALA:HB3	1:Q:503:ILE:HG22	1.96	0.47
1:Q:532:ILE:O	1:Q:532:ILE:HG22	2.15	0.47
1:Q:548:GLY:C	1:Q:550:GLN:H	2.23	0.47
1:Q:551:VAL:CG1	1:Q:552:ILE:H	2.26	0.47
1:Q:700:ILE:O	1:Q:704:LEU:HG	2.15	0.47
1:Q:747:LEU:HG	1:Q:784:SER:O	2.15	0.47
1:Q:782:ILE:HG23	1:Q:794:GLU:CD	2.39	0.47
1:Q:830:LEU:CD2	1:Q:846:VAL:HG21	2.44	0.47
2:G:124:ILE:HG12	2:G:272:VAL:HG13	1.97	0.47
2:G:146:TYR:HB2	2:G:238:LYS:HD3	1.96	0.47
3:R:17:TYR:HA	3:R:604:PHE:CB	2.44	0.47
3:R:45:GLU:HG3	3:R:46:GLN:N	2.26	0.47
3:R:56:LEU:CD1	3:R:104:GLU:HG2	2.44	0.47
3:R:63:ILE:CD1	3:R:63:ILE:N	2.76	0.47
3:R:227:MET:O	3:R:232:ILE:HB	2.15	0.47
3:R:321:LYS:HD2	3:R:330:ARG:NE	2.27	0.47
3:R:407:ARG:HA	3:R:407:ARG:HE	1.80	0.47
3:R:435:ARG:C	3:R:437:GLN:H	2.23	0.47
3:R:537:ALA:CB	3:R:557:HIS:NE2	2.66	0.47
3:R:587:PRO:O	3:R:588:LEU:CD2	2.56	0.47
3:R:661:ASN:ND2	3:R:921:LEU:O	2.43	0.47
3:R:1020:ARG:O	3:R:1021:ALA:C	2.56	0.47
3:R:1069:TRP:CD1	3:R:1088:LEU:HD13	2.50	0.47
3:R:1081:ILE:CG2	3:R:1085:LYS:HZ3	2.26	0.47
4:S:63:ALA:HB1	4:S:155:LYS:NZ	2.28	0.47
4:S:151:LYS:O	4:S:152:GLU:O	2.33	0.47
5:T:23:ASN:HA	5:T:26:ALA:HB3	1.96	0.47
5:T:38:ILE:HG22	5:T:39:LEU:N	2.24	0.47
5:T:41:ASP:O	5:T:42:LEU:HD23	2.14	0.47
5:T:51:VAL:C	5:T:53:THR:H	2.23	0.47
5:T:123:VAL:O	5:T:125:GLY:N	2.48	0.47
6:U:14:TYR:HE2	6:U:40:TYR:HH	1.63	0.47
6:U:36:ARG:O	6:U:40:TYR:N	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:68:VAL:O	6:U:72:LEU:HG	2.14	0.47
8:W:26:ARG:HB3	8:W:27:LEU:CD1	2.43	0.47
8:W:41:LEU:O	8:W:42:GLN:C	2.57	0.47
9:X:47:HIS:O	9:X:48:PRO:C	2.58	0.47
9:X:74:GLU:O	9:X:75:ASN:C	2.57	0.47
1:A:647:ARG:HH21	4:D:211:ARG:HH12	1.62	0.47
3:B:17:TYR:HA	3:B:604:PHE:HB2	1.96	0.47
3:B:97:TRP:CE3	3:B:113:GLU:HB3	2.50	0.47
3:B:183:ILE:HB	3:B:207:ASP:O	2.14	0.47
3:B:660:HIS:CE1	3:B:925:MET:HE1	2.49	0.47
3:B:762:GLU:OE2	3:B:773:ILE:HG13	2.15	0.47
4:D:50:ASN:HD22	10:N:64:ARG:NH1	2.12	0.47
4:D:256:LEU:HD12	9:L:3:ILE:HG13	1.96	0.47
5:E:96:GLY:HA2	5:E:110:ILE:HG12	1.96	0.47
5:E:113:ILE:CG2	5:E:114:THR:H	2.26	0.47
1:Q:94:LEU:C	1:Q:96:ALA:H	2.23	0.47
1:Q:532:ILE:HG23	9:X:40:PHE:CD1	2.50	0.47
1:Q:645:THR:HA	3:R:912:PRO:HG2	1.97	0.47
2:G:124:ILE:CG2	2:G:267:VAL:HG13	2.44	0.47
3:R:193:THR:HG1	3:R:198:VAL:HA	1.80	0.47
3:R:343:LEU:N	3:R:343:LEU:CD1	2.77	0.47
3:R:381:LEU:C	3:R:383:ALA:H	2.21	0.47
3:R:439:ASN:C	3:R:440:PHE:HD1	2.21	0.47
3:R:474:ALA:HB3	3:R:578:PRO:HD3	1.96	0.47
3:R:490:TYR:OH	3:R:527:ILE:HG23	2.14	0.47
3:R:800:PRO:HG2	11:Z:38:ARG:N	2.30	0.47
3:R:1076:LYS:O	3:R:1078:VAL:N	2.48	0.47
4:S:176:CYS:H	4:S:195:LEU:CD2	2.27	0.47
1:A:218:THR:HG21	3:B:1098:LYS:HZ1	1.79	0.47
1:A:336:GLU:OE1	1:A:436:ARG:NH1	2.48	0.47
1:A:363:GLN:O	1:A:366:ILE:CG2	2.62	0.47
1:A:469:SER:HB2	1:A:472:ALA:H	1.80	0.47
1:A:488:THR:HG22	1:A:491:TYR:H	1.78	0.47
2:C:37:LEU:O	2:C:39:LYS:N	2.47	0.47
2:C:70:ILE:HD13	2:C:71:GLY:H	1.79	0.47
2:C:310:ILE:N	2:C:310:ILE:CD1	2.67	0.47
3:B:291:GLN:O	3:B:295:LYS:HE2	2.14	0.47
3:B:320:SER:O	3:B:324:GLU:OE2	2.32	0.47
3:B:669:GLN:HG2	3:B:881:ARG:O	2.15	0.47
3:B:725:ALA:HB1	3:B:985:PHE:CE1	2.50	0.47
6:F:9:GLU:O	6:F:10:HIS:ND1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K:74:LEU:HD12	8:K:74:LEU:N	2.29	0.47
10:N:24:ARG:HD2	10:N:34:VAL:CG1	2.44	0.47
10:N:28:GLY:O	10:N:29:GLU:O	2.32	0.47
1:Q:68:CYS:SG	1:Q:71:HIS:CE1	3.08	0.47
1:Q:561:ASN:HD22	1:Q:589:LYS:HA	1.79	0.47
1:Q:646:MET:SD	3:R:915:LEU:HD23	2.55	0.47
1:Q:674:ASN:OD1	1:Q:675:LEU:N	2.48	0.47
1:Q:757:ILE:O	1:Q:757:ILE:HG22	2.15	0.47
1:Q:758:LYS:HB2	1:Q:759:ARG:HD2	1.96	0.47
1:Q:828:SER:C	1:Q:830:LEU:N	2.68	0.47
2:G:106:ARG:HG2	2:G:106:ARG:HH11	1.79	0.47
2:G:337:GLU:OE2	2:G:339:ASN:CG	2.58	0.47
2:G:390:MET:HE3	5:T:58:ILE:C	2.40	0.47
3:R:103:VAL:HG13	3:R:106:ASN:C	2.40	0.47
3:R:366:THR:O	3:R:370:GLU:HB2	2.15	0.47
3:R:814:VAL:O	3:R:814:VAL:HG12	2.15	0.47
3:R:1061:CYS:CA	3:R:1088:LEU:HD23	2.45	0.47
7:V:62:ILE:H	7:V:62:ILE:CD1	2.27	0.47
1:A:4:LYS:HE2	3:B:1060:VAL:HG23	1.97	0.47
1:A:23:SER:O	1:A:24:VAL:CG1	2.63	0.47
1:A:61:CYS:HB3	1:A:63:ASN:HD21	1.80	0.47
1:A:305:LYS:N	1:A:310:ARG:HD2	2.29	0.47
1:A:353:ILE:CG1	1:A:361:LEU:HD23	2.44	0.47
1:A:481:LEU:CD2	1:A:482:VAL:N	2.75	0.47
1:A:667:ARG:HG2	1:A:667:ARG:NH1	2.29	0.47
1:A:675:LEU:CD2	1:A:684:LEU:HD11	2.45	0.47
1:A:752:VAL:O	1:A:753:ARG:HB3	2.14	0.47
2:C:52:PHE:O	2:C:56:ILE:HG12	2.15	0.47
2:C:65:ALA:HB1	8:K:19:PHE:CE1	2.50	0.47
2:C:72:ILE:HG22	2:C:76:GLN:OE1	2.15	0.47
2:C:122:MET:HB2	2:C:253:THR:HG1	1.80	0.47
2:C:366:PHE:CZ	2:C:375:ILE:HD12	2.50	0.47
2:C:392:PRO:CB	5:E:22:LEU:HD21	2.45	0.47
3:B:11:TRP:CZ2	3:B:706:ARG:HG2	2.49	0.47
3:B:80:ILE:HD11	3:B:92:TYR:HA	1.97	0.47
3:B:86:ARG:HA	3:B:156:GLY:HA3	1.96	0.47
3:B:298:LEU:C	3:B:300:HIS:N	2.73	0.47
3:B:582:VAL:HG11	3:B:633:LEU:HD11	1.97	0.47
3:B:935:LEU:O	10:N:46:ARG:NH1	2.48	0.47
3:B:1066:TYR:CD2	3:B:1105:MET:HE3	2.49	0.47
4:D:66:PRO:HB2	4:D:124:ILE:CG1	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:256:LEU:O	4:D:257:GLU:C	2.58	0.47
5:E:38:ILE:HD12	5:E:38:ILE:H	1.80	0.47
5:E:97:ILE:HD12	5:E:113:ILE:CD1	2.43	0.47
5:E:109:HIS:CD2	5:E:111:SER:H	2.33	0.47
1:Q:517:THR:HG22	1:Q:518:LYS:H	1.80	0.47
1:Q:564:GLY:O	1:Q:586:VAL:N	2.45	0.47
1:Q:579:ASP:O	1:Q:580:CYS:SG	2.70	0.47
1:Q:594:LEU:O	1:Q:595:GLU:O	2.32	0.47
2:G:42:ILE:HD12	2:G:42:ILE:H	1.79	0.47
2:G:65:ALA:HB1	8:W:19:PHE:CE1	2.50	0.47
2:G:366:PHE:HB3	2:G:372:ASN:OD1	2.14	0.47
3:R:116:ILE:HD12	3:R:361:PHE:HZ	1.79	0.47
3:R:655:ILE:HG12	3:R:669:GLN:HG2	1.98	0.47
3:R:725:ALA:HB1	3:R:985:PHE:CE1	2.50	0.47
3:R:763:VAL:HG23	3:R:859:ASN:CG	2.39	0.47
4:S:101:GLU:CG	4:S:102:ALA:H	2.28	0.47
5:T:151:SER:HB3	5:T:158:PRO:HB3	1.97	0.47
6:U:52:ALA:C	6:U:54:LYS:N	2.72	0.47
8:W:28:THR:O	8:W:31:GLU:N	2.48	0.47
8:W:50:LEU:O	8:W:52:ASP:N	2.48	0.47
9:X:65:PRO:HG2	9:X:66:LYS:H	1.79	0.47
1:A:8:GLY:HA2	2:C:365:GLU:HA	1.97	0.46
1:A:297:THR:O	1:A:300:GLN:HB3	2.14	0.46
1:A:480:MET:C	1:A:481:LEU:O	2.56	0.46
1:A:490:ARG:HG3	2:C:308:VAL:HG23	1.96	0.46
1:A:674:ASN:O	1:A:677:GLN:N	2.48	0.46
1:A:720:ASP:C	1:A:722:PHE:N	2.73	0.46
1:A:749:GLN:HA	1:A:781:PHE:CA	2.45	0.46
1:A:830:LEU:CD2	1:A:846:VAL:HG21	2.46	0.46
1:A:837:THR:HG23	1:A:847:GLN:O	2.15	0.46
2:C:55:ALA:C	2:C:58:GLU:H	2.23	0.46
2:C:144:LEU:O	2:C:145:GLU:C	2.58	0.46
3:B:38:LYS:CG	3:B:39:LEU:H	2.19	0.46
3:B:50:PRO:CG	3:B:51:THR:H	2.19	0.46
3:B:64:ARG:N	3:B:64:ARG:HD3	2.30	0.46
3:B:243:SER:O	3:B:249:GLN:OE1	2.32	0.46
3:B:278:ILE:CG2	3:B:279:GLY:N	2.78	0.46
3:B:536:LEU:O	3:B:539:LYS:N	2.48	0.46
3:B:569:ASN:HB3	3:B:574:ARG:HH12	1.80	0.46
3:B:793:GLU:HB3	3:B:794:ASP:H	1.62	0.46
3:B:1013:THR:HB	3:B:1015:GLN:HG3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:1083:GLY:O	3:B:1085:LYS:N	2.48	0.46
5:E:90:LEU:O	5:E:91:GLN:HB2	2.15	0.46
7:H:28:ALA:C	7:H:30:LYS:H	2.23	0.46
1:Q:23:SER:OG	1:Q:24:VAL:N	2.45	0.46
1:Q:262:ILE:CD1	1:Q:266:TRP:HE1	2.27	0.46
1:Q:276:TYR:CD2	1:Q:277:PHE:CD1	3.03	0.46
1:Q:302:LEU:HA	1:Q:308:ARG:H	1.80	0.46
1:Q:759:ARG:NH2	1:Q:763:THR:HG23	2.30	0.46
2:G:65:ALA:CB	8:W:19:PHE:CE1	2.98	0.46
3:R:18:PHE:C	3:R:20:SER:N	2.72	0.46
3:R:902:LYS:O	3:R:904:VAL:HG23	2.15	0.46
3:R:1036:LEU:HD13	3:R:1044:LEU:HD23	1.97	0.46
3:R:1066:TYR:CD2	3:R:1105:MET:HE3	2.50	0.46
4:S:167:TYR:CD1	4:S:227:ILE:HD11	2.50	0.46
8:W:80:ARG:O	8:W:82:LEU:HD23	2.15	0.46
1:A:357:ASN:O	1:A:359:GLU:N	2.48	0.46
1:A:376:ASN:N	1:A:376:ASN:HD22	2.13	0.46
1:A:390:TYR:O	1:A:391:VAL:CB	2.63	0.46
1:A:691:THR:O	1:A:694:GLU:HB2	2.15	0.46
2:C:54:LEU:O	2:C:54:LEU:HD23	2.15	0.46
3:B:226:LEU:HD13	3:B:297:PHE:HE1	1.81	0.46
3:B:262:ILE:N	3:B:262:ILE:HD12	2.29	0.46
3:B:407:ARG:HE	3:B:407:ARG:HA	1.80	0.46
3:B:725:ALA:CB	3:B:906:PRO:HB3	2.42	0.46
3:B:768:GLY:O	3:B:769:GLN:CB	2.63	0.46
3:B:915:LEU:HB3	3:B:916:PRO:CD	2.45	0.46
3:B:1076:LYS:O	3:B:1078:VAL:N	2.48	0.46
3:B:1098:LYS:O	3:B:1102:GLN:HG3	2.15	0.46
3:B:1113:LEU:H	3:B:1113:LEU:HD12	1.79	0.46
5:E:170:GLY:H	5:E:175:ILE:HD11	1.79	0.46
1:Q:212:LEU:HD23	1:Q:242:ILE:HG21	1.97	0.46
1:Q:499:ALA:HB3	3:R:734:MET:HE3	1.98	0.46
2:G:41:ILE:CG2	2:G:42:ILE:HD12	2.45	0.46
2:G:292:ILE:CG2	2:G:293:ILE:N	2.78	0.46
3:R:63:ILE:HA	3:R:98:LEU:H	1.81	0.46
3:R:123:LEU:HD22	3:R:151:TYR:CE1	2.50	0.46
3:R:247:GLU:HA	3:R:250:ASN:HD22	1.80	0.46
3:R:413:LEU:O	3:R:414:LEU:C	2.59	0.46
3:R:485:VAL:C	3:R:487:LYS:H	2.23	0.46
3:R:659:GLU:O	3:R:660:HIS:CD2	2.68	0.46
3:R:867:ARG:O	3:R:868:ASP:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:946:TYR:HD2	3:R:947:LYS:H	0.81	0.46
3:R:972:ASP:O	3:R:975:THR:HG23	2.15	0.46
3:R:1061:CYS:HA	3:R:1088:LEU:CD2	2.45	0.46
3:R:1074:LYS:CB	3:R:1076:LYS:HE2	2.36	0.46
4:S:30:ARG:O	4:S:34:LEU:HG	2.16	0.46
5:T:147:ILE:CD1	5:T:163:THR:HB	2.45	0.46
7:V:80:TYR:CE1	7:V:82:ILE:HD11	2.49	0.46
10:Y:7:CYS:SG	10:Y:45:CYS:SG	3.13	0.46
1:A:58:CYS:CB	1:A:59:PRO:CD	2.93	0.46
1:A:218:THR:HG21	3:B:1098:LYS:NZ	2.31	0.46
1:A:218:THR:CG2	3:B:1098:LYS:NZ	2.78	0.46
1:A:297:THR:O	1:A:298:LEU:C	2.58	0.46
1:A:316:LYS:HE2	3:B:1054:ASP:OD2	2.15	0.46
1:A:697:GLU:O	1:A:698:ASN:C	2.58	0.46
1:A:727:VAL:C	1:A:729:ALA:N	2.72	0.46
1:A:750:GLN:HG3	1:A:782:ILE:HD11	1.97	0.46
1:A:757:ILE:O	1:A:757:ILE:HG22	2.15	0.46
1:A:759:ARG:N	1:A:779:ARG:HH21	2.12	0.46
1:A:839:ARG:NH2	8:K:83:PRO:HG3	2.30	0.46
2:C:108:ILE:O	2:C:109:GLU:C	2.57	0.46
2:C:390:MET:HG3	5:E:56:GLU:HG2	1.96	0.46
3:B:23:LEU:HD22	3:B:23:LEU:H	1.80	0.46
3:B:707:ALA:O	3:B:709:ASP:N	2.48	0.46
3:B:797:VAL:HG12	3:B:798:VAL:O	2.15	0.46
3:B:903:GLY:HA3	4:D:161:LEU:HD12	1.98	0.46
3:B:910:LEU:HD12	3:B:923:GLN:HE21	1.80	0.46
3:B:940:VAL:HG21	3:B:953:LEU:HD11	1.96	0.46
3:B:1011:ILE:H	3:B:1011:ILE:CD1	2.12	0.46
3:B:1069:TRP:CH2	3:B:1077:TYR:CB	2.94	0.46
4:D:66:PRO:CG	10:N:13:LEU:HD21	2.45	0.46
4:D:128:ILE:CG1	10:N:16:ASP:HB3	2.45	0.46
6:F:30:SER:HB3	6:F:38:TYR:HE1	1.80	0.46
1:Q:396:GLU:C	1:Q:398:ALA:N	2.73	0.46
1:Q:434:ARG:HE	1:Q:434:ARG:HB3	1.47	0.46
1:Q:691:THR:HG22	1:Q:692:LEU:N	2.30	0.46
3:R:128:ASP:OD1	3:R:130:ILE:CG1	2.63	0.46
3:R:250:ASN:O	3:R:252:LEU:N	2.48	0.46
3:R:669:GLN:HA	3:R:669:GLN:NE2	2.30	0.46
3:R:963:LEU:HA	3:R:964:PRO:HD3	1.80	0.46
4:S:72:ALA:C	4:S:74:ASP:H	2.23	0.46
4:S:105:GLU:N	4:S:135:THR:CG2	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:173:LEU:O	4:S:174:ALA:CB	2.64	0.46
4:S:182:VAL:HG11	4:S:212:TYR:CG	2.51	0.46
6:U:59:LEU:C	6:U:61:ASN:H	2.23	0.46
6:U:72:LEU:C	6:U:74:SER:N	2.72	0.46
8:W:61:VAL:CG1	8:W:62:ILE:H	2.24	0.46
1:A:249:LEU:HD21	1:A:265:LEU:HB2	1.98	0.46
1:A:361:LEU:HD11	1:A:407:ILE:HD11	1.98	0.46
1:A:541:ALA:CB	1:A:542:PRO:HD3	2.40	0.46
1:A:551:VAL:CG1	1:A:552:ILE:H	2.24	0.46
1:A:631:LEU:HG	1:A:635:PHE:HE1	1.80	0.46
1:A:752:VAL:HG11	1:A:800:ALA:O	2.16	0.46
2:C:240:ALA:C	2:C:241:ILE:HG13	2.40	0.46
3:B:18:PHE:C	3:B:20:SER:N	2.71	0.46
3:B:80:ILE:HD12	3:B:92:TYR:HA	1.97	0.46
3:B:173:LEU:HD22	3:B:333:ASP:HB3	1.97	0.46
3:B:196:TYR:CE2	3:B:303:THR:HG21	2.50	0.46
3:B:345:LEU:HD11	3:B:476:ILE:HG13	1.97	0.46
3:B:545:ARG:HE	3:B:581:ILE:HD13	1.80	0.46
3:B:963:LEU:CD2	4:D:208:GLU:HG3	2.46	0.46
3:B:1097:PHE:O	3:B:1098:LYS:C	2.57	0.46
4:D:123:PRO:C	4:D:125:SER:H	2.23	0.46
5:E:1:MET:HB2	5:E:78:VAL:O	2.15	0.46
5:E:85:VAL:HG11	5:E:101:LEU:HD13	1.97	0.46
5:E:175:ILE:HA	5:E:178:THR:OG1	2.16	0.46
9:L:87:ILE:HG22	9:L:88:LYS:H	1.80	0.46
11:P:20:VAL:O	11:P:20:VAL:HG23	2.15	0.46
1:Q:212:LEU:HD21	1:Q:242:ILE:CD1	2.46	0.46
1:Q:394:ARG:O	1:Q:395:LYS:C	2.58	0.46
1:Q:505:GLY:O	1:Q:506:ALA:O	2.34	0.46
1:Q:528:ALA:N	1:Q:630:ASN:OD1	2.36	0.46
1:Q:575:CYS:SG	1:Q:584:SER:HB3	2.55	0.46
1:Q:647:ARG:HD2	3:R:965:ASP:HB3	1.97	0.46
1:Q:715:ALA:C	1:Q:717:LYS:H	2.23	0.46
1:Q:727:VAL:O	1:Q:728:MET:C	2.57	0.46
3:R:21:LYS:HD3	3:R:25:ARG:CZ	2.45	0.46
3:R:46:GLN:O	3:R:47:GLY:O	2.33	0.46
3:R:229:ALA:HB1	3:R:269:LEU:HD23	1.97	0.46
3:R:316:ALA:C	3:R:318:ALA:N	2.72	0.46
3:R:356:VAL:HG13	3:R:357:ALA:N	2.29	0.46
3:R:372:SER:O	3:R:373:LYS:HB2	2.14	0.46
3:R:526:LEU:HD23	3:R:527:ILE:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:627:ALA:O	3:R:628:LEU:C	2.58	0.46
3:R:663:SER:CB	3:R:664:PRO:CD	2.93	0.46
3:R:774:VAL:O	3:R:775:MET:C	2.57	0.46
3:R:1074:LYS:HB2	3:R:1076:LYS:HG3	1.97	0.46
6:U:59:LEU:HD23	6:U:59:LEU:C	2.41	0.46
7:V:12:ARG:HD2	7:V:51:VAL:HG13	1.97	0.46
7:V:45:ILE:HB	7:V:79:ARG:CB	2.41	0.46
1:A:307:GLY:O	1:A:311:GLY:HA3	2.14	0.46
1:A:608:PRO:O	1:A:609:GLU:CG	2.63	0.46
2:C:67:GLY:HA2	2:C:385:MET:HE1	1.97	0.46
3:B:17:TYR:HA	3:B:604:PHE:CB	2.45	0.46
3:B:290:GLN:NE2	3:B:308:ARG:HH12	2.13	0.46
3:B:316:ALA:C	3:B:318:ALA:N	2.71	0.46
4:D:105:GLU:N	4:D:135:THR:CG2	2.79	0.46
6:F:59:LEU:C	6:F:61:ASN:H	2.23	0.46
8:K:79:ARG:NH1	8:K:79:ARG:HG3	2.27	0.46
1:Q:75:ILE:HG23	1:Q:75:ILE:O	2.14	0.46
1:Q:258:PRO:C	1:Q:260:LEU:N	2.73	0.46
1:Q:425:LEU:CD2	2:G:83:THR:HG21	2.45	0.46
2:G:106:ARG:O	2:G:109:GLU:N	2.48	0.46
2:G:112:ASP:O	2:G:113:ALA:CB	2.62	0.46
2:G:130:TYR:HB3	2:G:136:LYS:HG3	1.98	0.46
2:G:269:VAL:HG12	7:V:14:HIS:CD2	2.51	0.46
3:R:65:ILE:HG22	3:R:66:GLY:H	1.80	0.46
3:R:95:PRO:HB2	3:R:115:TYR:CD2	2.51	0.46
3:R:298:LEU:C	3:R:300:HIS:N	2.74	0.46
3:R:480:ILE:CG2	3:R:481:ASN:N	2.78	0.46
3:R:497:VAL:O	3:R:498:GLU:C	2.58	0.46
3:R:935:LEU:CD2	10:Y:43:TYR:HB3	2.45	0.46
3:R:955:ASN:O	3:R:958:LEU:HB3	2.14	0.46
3:R:1069:TRP:CZ3	3:R:1077:TYR:CB	2.98	0.46
4:S:187:VAL:HG21	14:S:1001:F3S:S4	2.56	0.46
5:T:117:THR:HG21	5:T:130:GLU:HG3	1.98	0.46
1:A:506:ALA:N	1:A:635:PHE:HD2	2.12	0.46
1:A:590:ASN:OD1	3:R:377:ARG:HD2	2.16	0.46
1:A:712:GLY:C	1:A:714:ILE:H	2.23	0.46
1:A:782:ILE:HG22	1:A:784:SER:N	2.31	0.46
2:C:24:LEU:O	2:C:29:VAL:HG23	2.15	0.46
2:C:131:LYS:O	2:C:249:TYR:N	2.49	0.46
3:B:134:THR:O	3:B:137:LYS:N	2.49	0.46
3:B:388:ASP:O	3:B:389:ILE:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:15:PRO:HA	5:E:18:PHE:CD1	2.50	0.46
9:L:83:TYR:O	9:L:87:ILE:HB	2.15	0.46
1:Q:8:GLY:H	2:G:366:PHE:HE1	1.62	0.46
1:Q:325:VAL:CG2	1:Q:442:THR:HG22	2.46	0.46
1:Q:532:ILE:O	1:Q:533:ASP:C	2.59	0.46
1:Q:872:PHE:CD2	1:Q:876:VAL:HG11	2.51	0.46
2:G:289:ALA:O	2:G:290:ARG:C	2.56	0.46
3:R:265:VAL:O	3:R:268:ALA:HB3	2.16	0.46
3:R:453:MET:HE3	3:R:469:ASN:O	2.14	0.46
3:R:655:ILE:HG23	3:R:881:ARG:O	2.14	0.46
3:R:660:HIS:CE1	3:R:925:MET:HE1	2.49	0.46
3:R:764:LYS:CD	3:R:815:SER:HA	2.43	0.46
3:R:875:GLY:HA2	3:R:887:VAL:HG11	1.98	0.46
3:R:902:LYS:CB	10:Y:42:ARG:NH1	2.75	0.46
3:R:925:MET:HE3	3:R:950:ILE:HD13	1.97	0.46
3:R:931:LYS:HB3	3:R:957:ILE:HG21	1.98	0.46
3:R:956:GLU:C	3:R:958:LEU:H	2.24	0.46
4:S:38:ILE:HD12	4:S:38:ILE:C	2.41	0.46
5:T:85:VAL:HG11	5:T:101:LEU:HD13	1.98	0.46
6:U:80:SER:O	6:U:84:ARG:HB2	2.15	0.46
10:Y:3:ILE:HA	10:Y:52:HIS:NE2	2.30	0.46
1:A:4:LYS:HB3	3:B:1090:PRO:O	2.15	0.46
1:A:282:PRO:O	1:A:283:GLY:O	2.34	0.46
1:A:422:GLN:HA	1:A:423:PRO:C	2.41	0.46
1:A:438:LEU:HD23	1:A:438:LEU:C	2.40	0.46
1:A:498:ALA:HB3	1:A:503:ILE:HG22	1.98	0.46
1:A:704:LEU:HD22	1:A:781:PHE:CD1	2.50	0.46
1:A:841:LEU:CD2	2:C:367:LYS:HB2	2.46	0.46
3:B:220:LYS:O	3:B:275:ARG:NH1	2.48	0.46
3:B:343:LEU:HD11	3:B:575:VAL:CG2	2.45	0.46
3:B:388:ASP:C	3:B:390:VAL:H	2.23	0.46
3:B:727:MET:HA	3:B:912:PRO:HG2	1.97	0.46
3:B:1063:GLN:HE22	3:B:1085:LYS:HD2	1.80	0.46
4:D:50:ASN:ND2	10:N:64:ARG:NH1	2.63	0.46
4:D:134:GLY:HA3	10:N:60:ILE:HD11	1.98	0.46
10:N:3:ILE:HG22	10:N:4:PRO:CD	2.46	0.46
11:P:17:GLN:C	11:P:19:LYS:N	2.70	0.46
1:Q:364:PHE:HD2	1:Q:373:PRO:O	1.99	0.46
1:Q:418:LEU:HD23	1:Q:430:MET:CE	2.46	0.46
1:Q:449:VAL:O	1:Q:449:VAL:HG12	2.16	0.46
1:Q:761:TYR:CB	1:Q:764:ARG:HG3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:81:SER:O	3:R:82:PRO:C	2.58	0.46
3:R:346:ALA:O	3:R:347:GLY:C	2.59	0.46
3:R:699:GLN:CA	10:Y:51:SER:O	2.63	0.46
3:R:789:TYR:CD2	3:R:789:TYR:N	2.68	0.46
3:R:846:ILE:HG22	3:R:846:ILE:O	2.15	0.46
3:R:1079:CYS:SG	3:R:1080:PRO:CD	3.02	0.46
3:R:1113:LEU:H	3:R:1113:LEU:HD12	1.79	0.46
1:A:276:TYR:CD2	1:A:277:PHE:CD1	3.01	0.46
1:A:489:PRO:HA	1:A:858:MET:HG3	1.96	0.46
1:A:573:ARG:HA	1:A:582:HIS:CD2	2.51	0.46
1:A:667:ARG:O	1:A:670:VAL:CG2	2.62	0.46
1:A:827:LEU:HD11	2:C:315:LEU:CD1	2.44	0.46
1:A:853:ASP:HB3	1:A:855:VAL:HB	1.97	0.46
2:C:120:PRO:CA	2:C:275:ASN:ND2	2.67	0.46
3:B:225:ILE:HD13	3:B:271:PHE:HB3	1.97	0.46
3:B:435:ARG:CG	3:B:435:ARG:NH1	2.75	0.46
3:B:482:GLU:OE2	3:B:525:ARG:NH1	2.49	0.46
3:B:926:GLU:HB3	3:B:988:VAL:HG22	1.98	0.46
3:B:992:LYS:HE3	3:B:996:MET:SD	2.56	0.46
4:D:101:GLU:HG2	4:D:102:ALA:N	2.29	0.46
4:D:182:VAL:HG11	4:D:212:TYR:CG	2.50	0.46
6:F:13:PRO:O	6:F:14:TYR:C	2.59	0.46
6:F:59:LEU:HD23	6:F:59:LEU:C	2.41	0.46
9:L:7:LYS:HE3	9:L:12:TYR:CE2	2.50	0.46
10:N:63:THR:HB	10:N:64:ARG:HD3	1.96	0.46
1:Q:820:GLN:O	1:Q:823:LEU:HD12	2.15	0.46
2:G:67:GLY:O	2:G:385:MET:HE2	2.15	0.46
3:R:54:PRO:O	3:R:56:LEU:N	2.49	0.46
3:R:441:GLU:O	3:R:441:GLU:HG2	2.16	0.46
3:R:687:ARG:HH11	3:R:687:ARG:CB	2.29	0.46
4:S:158:PRO:O	4:S:233:VAL:HG22	2.15	0.46
4:S:171:GLU:C	4:S:172:ILE:HD12	2.40	0.46
4:S:178:LYS:HA	4:S:181:ASN:HD22	1.81	0.46
5:T:38:ILE:H	5:T:38:ILE:HD12	1.81	0.46
5:T:168:TYR:CE2	6:U:81:ASP:HB3	2.51	0.46
6:U:63:VAL:O	6:U:63:VAL:HG12	2.16	0.46
7:V:49:ASP:CG	7:V:50:PRO:HD2	2.41	0.46
10:Y:24:ARG:HD2	10:Y:34:VAL:CG1	2.45	0.46
1:A:212:LEU:HD23	1:A:242:ILE:HG21	1.98	0.46
1:A:391:VAL:O	1:A:392:LYS:O	2.34	0.46
1:A:532:ILE:O	1:A:532:ILE:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:822:ARG:O	1:A:823:LEU:C	2.58	0.46
3:B:13:VAL:HG22	3:B:592:GLU:OE2	2.16	0.46
3:B:291:GLN:C	3:B:293:ILE:N	2.74	0.46
3:B:543:ARG:NH2	3:B:548:GLU:OE2	2.48	0.46
3:B:754:PHE:CE2	3:B:756:ARG:HB2	2.47	0.46
3:B:814:VAL:HA	3:B:833:ARG:O	2.15	0.46
3:B:904:VAL:CG2	10:N:42:ARG:NE	2.78	0.46
4:D:167:TYR:CD1	4:D:227:ILE:HD11	2.50	0.46
5:E:124:ARG:NH2	5:E:137:GLN:OE1	2.49	0.46
9:L:67:ASP:C	9:L:69:LEU:N	2.73	0.46
9:L:69:LEU:HD23	9:L:73:ILE:HG12	1.97	0.46
9:L:87:ILE:HG23	9:L:88:LYS:N	2.31	0.46
10:N:23:THR:HG22	10:N:24:ARG:N	2.30	0.46
1:Q:441:LEU:HD12	3:R:873:THR:HG21	1.97	0.46
1:Q:451:PRO:HG2	1:Q:605:ASN:OD1	2.16	0.46
1:Q:524:ILE:HG23	1:Q:634:VAL:HG13	1.98	0.46
1:Q:620:SER:C	1:Q:622:GLU:N	2.74	0.46
1:Q:675:LEU:CD2	1:Q:684:LEU:HD11	2.46	0.46
1:Q:752:VAL:HG11	1:Q:800:ALA:O	2.15	0.46
2:G:70:ILE:HA	2:G:73:VAL:CG2	2.42	0.46
2:G:103:GLY:HA3	2:G:300:VAL:CG1	2.45	0.46
2:G:117:PRO:HD2	2:G:120:PRO:HG3	1.98	0.46
3:R:5:LEU:HB2	3:R:630:PRO:HG3	1.97	0.46
3:R:80:ILE:HD12	3:R:92:TYR:HA	1.97	0.46
3:R:97:TRP:CE3	3:R:113:GLU:HB3	2.51	0.46
3:R:226:LEU:HD13	3:R:297:PHE:HE1	1.81	0.46
3:R:591:ILE:HG12	3:R:612:LYS:HZ3	1.69	0.46
3:R:656:PRO:HG3	3:R:926:GLU:HG3	1.97	0.46
3:R:727:MET:HE3	3:R:898:PRO:CG	2.46	0.46
3:R:941:ASP:OD1	3:R:941:ASP:C	2.59	0.46
3:R:1012:LEU:C	3:R:1012:LEU:CD1	2.89	0.46
3:R:1083:GLY:O	3:R:1085:LYS:N	2.49	0.46
4:S:52:PRO:CG	10:Y:56:ILE:HD11	2.46	0.46
6:U:13:PRO:HB2	6:U:73:ALA:O	2.15	0.46
11:Z:9:CYS:SG	11:Z:10:TRP:O	2.74	0.46
1:A:759:ARG:HH21	1:A:763:THR:HA	1.81	0.46
2:C:41:ILE:CG2	2:C:42:ILE:HD12	2.45	0.46
2:C:131:LYS:HG2	2:C:248:GLU:C	2.41	0.46
3:B:139:ILE:CG2	10:N:61:HIS:HD2	2.26	0.46
3:B:238:ILE:HA	3:B:241:ALA:CB	2.46	0.46
3:B:519:LYS:HD2	3:B:565:GLU:HG2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:617:ASP:OD2	3:B:617:ASP:C	2.59	0.46
3:B:804:VAL:CG1	3:B:805:LYS:N	2.79	0.46
4:D:155:LYS:NZ	11:P:47:ALA:O	2.48	0.46
4:D:175:ASN:C	4:D:195:LEU:HD21	2.40	0.46
8:K:28:THR:O	8:K:31:GLU:N	2.48	0.46
9:L:45:GLN:HE22	9:L:48:PRO:N	2.13	0.46
1:Q:12:GLY:HA3	1:Q:201:THR:O	2.16	0.46
1:Q:331:ASN:C	1:Q:332:ILE:CD1	2.89	0.46
1:Q:334:ILE:CD1	1:Q:628:MET:HE3	2.46	0.46
1:Q:541:ALA:O	1:Q:542:PRO:C	2.55	0.46
1:Q:569:SER:HB2	1:Q:584:SER:HG	1.78	0.46
1:Q:665:ILE:O	1:Q:669:LYS:HG3	2.15	0.46
3:R:202:ILE:CG2	3:R:203:GLU:N	2.79	0.46
3:R:388:ASP:C	3:R:390:VAL:H	2.24	0.46
3:R:790:ARG:HG3	3:R:791:LEU:HD23	1.98	0.46
3:R:813:LYS:HE2	3:R:835:THR:HG21	1.98	0.46
3:R:867:ARG:CZ	4:S:54:TYR:CE2	2.99	0.46
3:R:898:PRO:HA	3:R:971:TYR:O	2.15	0.46
4:S:204:THR:O	4:S:206:CYS:N	2.48	0.46
5:T:10:ILE:HD12	5:T:10:ILE:N	2.30	0.46
5:T:17:GLU:CD	5:T:25:ILE:HD12	2.41	0.46
5:T:113:ILE:CG2	5:T:114:THR:N	2.78	0.46
5:T:179:LYS:NZ	6:U:82:GLU:HG3	2.31	0.46
9:X:45:GLN:OE1	9:X:45:GLN:O	2.34	0.46
10:Y:23:THR:HG22	10:Y:24:ARG:N	2.31	0.46
1:A:302:LEU:HA	1:A:308:ARG:H	1.82	0.45
1:A:313:LEU:CD2	3:B:1100:LEU:HD22	2.46	0.45
1:A:440:GLY:HA3	1:A:444:ARG:NH2	2.31	0.45
1:A:522:GLN:HG2	9:L:40:PHE:CD1	2.51	0.45
1:A:552:ILE:HD12	1:A:553:SER:N	2.31	0.45
2:C:63:LEU:HD23	2:C:63:LEU:C	2.41	0.45
2:C:146:TYR:HB2	2:C:238:LYS:HD3	1.99	0.45
2:C:311:ARG:HD3	2:C:311:ARG:N	2.29	0.45
3:B:577:ARG:HG2	3:B:579:LEU:HD21	1.98	0.45
3:B:633:LEU:O	3:B:635:PRO:N	2.49	0.45
3:B:651:THR:CG2	3:B:670:SER:HA	2.45	0.45
3:B:705:THR:HB	3:B:708:LEU:HB2	1.98	0.45
3:B:719:GLY:O	3:B:989:TYR:CE1	2.69	0.45
3:B:975:THR:CG2	3:B:977:GLN:HG2	2.46	0.45
4:D:27:ALA:HB1	9:L:23:THR:CG2	2.46	0.45
4:D:107:ARG:N	4:D:133:LEU:O	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:133:LEU:HD11	4:D:139:ILE:HG12	1.98	0.45
4:D:151:LYS:O	4:D:152:GLU:C	2.59	0.45
8:K:89:LEU:C	8:K:90:LEU:HD23	2.40	0.45
11:P:9:CYS:SG	11:P:10:TRP:O	2.74	0.45
1:Q:234:ASP:O	1:Q:236:THR:N	2.49	0.45
1:Q:369:PRO:HB3	1:Q:376:ASN:CB	2.26	0.45
1:Q:397:LEU:O	1:Q:400:THR:HB	2.16	0.45
1:Q:532:ILE:O	1:Q:532:ILE:CG2	2.64	0.45
1:Q:555:PHE:CD2	1:Q:631:LEU:HD13	2.50	0.45
2:G:240:ALA:O	2:G:241:ILE:HG13	2.16	0.45
2:G:365:GLU:CG	2:G:366:PHE:H	2.29	0.45
2:G:384:GLY:HA2	5:T:61:PHE:HZ	1.80	0.45
3:R:147:ASP:OD2	3:R:148:PRO:CD	2.63	0.45
3:R:248:VAL:HG21	3:R:329:ARG:HH12	1.81	0.45
3:R:278:ILE:HG22	3:R:279:GLY:H	1.79	0.45
3:R:373:LYS:CD	3:R:375:ARG:HD2	2.46	0.45
3:R:391:THR:O	3:R:394:ILE:HG22	2.16	0.45
3:R:474:ALA:HB1	3:R:615:TYR:CE2	2.52	0.45
3:R:535:GLU:O	3:R:536:LEU:C	2.58	0.45
3:R:744:SER:HB3	10:Y:8:PHE:HB3	1.98	0.45
3:R:934:ALA:HB2	10:Y:47:ARG:HH11	1.80	0.45
4:S:34:LEU:O	4:S:36:VAL:N	2.49	0.45
5:T:149:VAL:HG21	5:T:160:ILE:HG13	1.98	0.45
6:U:20:LEU:O	6:U:24:VAL:HG23	2.16	0.45
6:U:40:TYR:O	6:U:43:SER:OG	2.30	0.45
7:V:54:SER:O	7:V:56:ASN:N	2.49	0.45
1:A:184:LEU:HB3	1:A:204:PRO:HB2	1.97	0.45
1:A:415:ASP:O	1:A:435:VAL:HG12	2.17	0.45
1:A:821:ARG:O	1:A:825:ASN:ND2	2.43	0.45
2:C:124:ILE:CG2	2:C:267:VAL:HG13	2.46	0.45
2:C:130:TYR:HB3	2:C:136:LYS:HG3	1.98	0.45
2:C:315:LEU:HD23	2:C:315:LEU:HA	1.85	0.45
2:C:395:ARG:HG2	5:E:19:GLY:HA3	1.98	0.45
4:D:2:SER:N	9:L:86:GLU:OE1	2.49	0.45
4:D:187:VAL:HG21	4:D:203:CYS:HB2	1.99	0.45
5:E:10:ILE:N	5:E:10:ILE:HD12	2.32	0.45
7:H:42:LEU:O	7:H:43:PRO:C	2.58	0.45
1:Q:23:SER:C	1:Q:24:VAL:HG13	2.40	0.45
1:Q:631:LEU:HG	1:Q:635:PHE:HE1	1.81	0.45
1:Q:861:ALA:O	1:Q:862:HIS:CD2	2.69	0.45
2:G:104:LEU:C	2:G:104:LEU:HD23	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:144:LEU:O	2:G:145:GLU:C	2.59	0.45
3:R:249:GLN:HB2	3:R:253:PHE:CE1	2.51	0.45
3:R:549:ILE:HD13	3:R:549:ILE:HA	1.84	0.45
3:R:654:ILE:H	3:R:654:ILE:CD1	2.24	0.45
3:R:808:ASP:O	3:R:838:VAL:HG13	2.17	0.45
3:R:920:THR:C	3:R:921:LEU:O	2.57	0.45
3:R:1078:VAL:HG11	3:R:1082:HIS:HB3	1.97	0.45
4:S:52:PRO:HB2	10:Y:56:ILE:HD11	1.98	0.45
4:S:176:CYS:N	4:S:195:LEU:CD2	2.79	0.45
1:A:12:GLY:HA3	1:A:201:THR:O	2.17	0.45
1:A:394:ARG:O	1:A:398:ALA:HB2	2.17	0.45
1:A:508:LEU:HB3	1:A:638:PHE:HE2	1.82	0.45
1:A:529:ASP:O	1:A:529:ASP:OD2	2.33	0.45
1:A:589:LYS:O	1:A:592:ILE:CB	2.65	0.45
1:A:697:GLU:CD	1:A:756:ARG:HD3	2.41	0.45
1:A:764:ARG:CB	1:A:764:ARG:NH1	2.78	0.45
2:C:137:ALA:O	2:C:140:VAL:N	2.40	0.45
3:B:110:GLU:HA	3:B:111:PRO:HA	1.72	0.45
3:B:193:THR:CB	3:B:197:ARG:O	2.64	0.45
3:B:702:LEU:HD22	3:B:933:ALA:HB1	1.96	0.45
3:B:790:ARG:HG3	3:B:791:LEU:HD23	1.99	0.45
3:B:804:VAL:O	3:B:805:LYS:HD2	2.16	0.45
3:B:979:ILE:HD13	3:B:981:SER:H	1.82	0.45
3:B:1100:LEU:O	3:B:1101:ILE:C	2.59	0.45
4:D:145:LEU:HD12	4:D:145:LEU:N	2.30	0.45
4:D:213:CYS:CB	4:D:217:ILE:HD13	2.46	0.45
5:E:18:PHE:CE2	8:K:42:GLN:HG2	2.51	0.45
5:E:117:THR:HG21	5:E:130:GLU:HG3	1.98	0.45
6:F:88:VAL:HG12	6:F:89:MET:N	2.31	0.45
1:Q:23:SER:O	1:Q:24:VAL:CG1	2.64	0.45
1:Q:175:LEU:HD23	1:Q:176:THR:N	2.10	0.45
1:Q:309:PHE:HA	1:Q:313:LEU:HB2	1.97	0.45
1:Q:361:LEU:HG	1:Q:407:ILE:HG12	1.97	0.45
1:Q:375:ALA:HB2	1:Q:409:ARG:HA	1.98	0.45
1:Q:418:LEU:CD1	3:R:1044:LEU:HD11	2.44	0.45
1:Q:506:ALA:N	1:Q:635:PHE:HD2	2.15	0.45
1:Q:649:GLU:HG3	3:R:965:ASP:CG	2.42	0.45
2:G:369:VAL:HG11	2:G:381:LEU:HD21	1.98	0.45
3:R:6:THR:CB	3:R:9:GLU:CB	2.95	0.45
3:R:9:GLU:O	3:R:10:ARG:C	2.59	0.45
3:R:232:ILE:HG23	3:R:237:ASP:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:330:ARG:O	3:R:331:GLU:CB	2.60	0.45
3:R:589:VAL:O	3:R:592:GLU:N	2.46	0.45
3:R:651:THR:CG2	3:R:670:SER:HA	2.45	0.45
3:R:899:TYR:OH	4:S:164:VAL:HB	2.16	0.45
3:R:935:LEU:O	10:Y:46:ARG:NH1	2.49	0.45
3:R:974:ARG:HB2	9:X:22:HIS:CD2	2.50	0.45
3:R:1046:LYS:C	3:R:1048:ARG:N	2.74	0.45
4:S:39:MET:O	4:S:67:PHE:HB2	2.17	0.45
4:S:110:TYR:HA	4:S:128:ILE:O	2.16	0.45
5:T:27:LEU:HD23	5:T:28:ASN:N	2.31	0.45
5:T:114:THR:CG2	5:T:115:ASP:N	2.80	0.45
8:W:61:VAL:CG1	8:W:62:ILE:N	2.76	0.45
9:X:45:GLN:HE22	9:X:48:PRO:HD3	1.82	0.45
1:A:498:ALA:CB	1:A:503:ILE:HG22	2.46	0.45
2:C:65:ALA:CB	8:K:19:PHE:CE1	2.99	0.45
3:B:128:ASP:OD1	3:B:130:ILE:HG13	2.16	0.45
3:B:250:ASN:O	3:B:252:LEU:N	2.50	0.45
3:B:439:ASN:C	3:B:440:PHE:HD1	2.24	0.45
3:B:757:LEU:HD23	3:B:758:TYR:H	1.77	0.45
3:B:934:ALA:HB1	10:N:43:TYR:HB2	1.99	0.45
3:B:1076:LYS:O	3:B:1078:VAL:HG23	2.16	0.45
4:D:52:PRO:CB	10:N:56:ILE:HD11	2.46	0.45
4:D:58:LEU:O	4:D:59:ALA:C	2.59	0.45
5:E:39:LEU:HD13	5:E:42:LEU:CD1	2.47	0.45
7:H:20:HIS:HB3	7:H:63:ILE:HG21	1.98	0.45
1:Q:58:CYS:CB	1:Q:59:PRO:CD	2.94	0.45
1:Q:750:GLN:HG3	1:Q:782:ILE:HD11	1.98	0.45
1:Q:796:PHE:CZ	3:R:445:LEU:HB3	2.51	0.45
2:G:80:GLU:C	2:G:80:GLU:OE1	2.59	0.45
2:G:311:ARG:NH1	7:V:71:LEU:HD13	2.32	0.45
3:R:489:LEU:O	3:R:492:MET:N	2.46	0.45
3:R:654:ILE:HG22	3:R:654:ILE:O	2.16	0.45
3:R:940:VAL:HG23	3:R:947:LYS:HD3	1.98	0.45
3:R:946:TYR:CE1	3:R:949:PRO:HA	2.51	0.45
4:S:93:TYR:CE1	4:S:144:ARG:NH2	2.84	0.45
4:S:175:ASN:OD1	4:S:195:LEU:HG	2.15	0.45
5:T:31:ARG:HG2	5:T:35:GLN:CD	2.41	0.45
5:T:39:LEU:HD13	5:T:42:LEU:CD1	2.46	0.45
6:U:57:GLU:O	6:U:59:LEU:N	2.50	0.45
8:W:30:TYR:CD1	8:W:30:TYR:N	2.84	0.45
1:A:206:TRP:CZ3	1:A:209:LEU:HD23	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:388:LEU:O	1:A:389:ARG:C	2.59	0.45
1:A:417:VAL:CG1	1:A:464:LEU:HD13	2.47	0.45
1:A:474:ALA:C	1:A:476:ALA:H	2.24	0.45
1:A:529:ASP:HB3	1:A:626:TRP:CD1	2.51	0.45
1:A:550:GLN:O	1:A:553:SER:N	2.49	0.45
1:A:672:VAL:CG1	1:A:700:ILE:HD12	2.35	0.45
3:B:9:GLU:O	3:B:10:ARG:C	2.59	0.45
3:B:181:SER:O	3:B:182:ASN:CB	2.64	0.45
3:B:278:ILE:HG23	3:B:285:ARG:NH2	2.31	0.45
3:B:462:PRO:C	3:B:464:SER:N	2.75	0.45
3:B:485:VAL:C	3:B:487:LYS:N	2.75	0.45
3:B:526:LEU:HD23	3:B:527:ILE:N	2.31	0.45
3:B:745:VAL:CG1	3:B:872:PRO:HG2	2.45	0.45
3:B:814:VAL:O	3:B:814:VAL:HG12	2.15	0.45
4:D:173:LEU:O	4:D:174:ALA:CB	2.63	0.45
6:F:14:TYR:O	6:F:18:LYS:HE3	2.17	0.45
6:F:30:SER:HB3	6:F:38:TYR:CE1	2.51	0.45
8:K:27:LEU:HD12	8:K:27:LEU:N	2.31	0.45
9:L:12:TYR:HA	9:L:57:ILE:O	2.17	0.45
10:N:30:ASN:O	10:N:31:PRO:C	2.60	0.45
1:Q:51:VAL:HG23	1:Q:58:CYS:HB3	1.98	0.45
1:Q:380:ARG:C	1:Q:382:ASP:H	2.23	0.45
1:Q:394:ARG:O	1:Q:398:ALA:HB2	2.16	0.45
1:Q:432:ALA:HB3	1:Q:480:MET:C	2.41	0.45
1:Q:490:ARG:HG3	2:G:308:VAL:HG23	1.97	0.45
1:Q:490:ARG:HD3	2:G:77:SER:O	2.17	0.45
1:Q:651:VAL:HG21	1:Q:743:MET:HB3	1.97	0.45
1:Q:664:GLU:OE1	1:Q:707:LEU:HD22	2.16	0.45
2:G:281:GLU:OE1	2:G:326:VAL:CG1	2.62	0.45
2:G:321:THR:CG2	7:V:79:ARG:HH12	2.28	0.45
2:G:352:LYS:O	2:G:353:HIS:C	2.59	0.45
3:R:13:VAL:HG22	3:R:592:GLU:OE2	2.17	0.45
3:R:51:THR:HG21	3:R:370:GLU:OE1	2.17	0.45
3:R:82:PRO:C	3:R:84:GLU:H	2.24	0.45
3:R:804:VAL:HG12	3:R:805:LYS:N	2.31	0.45
4:S:133:LEU:HD21	4:S:139:ILE:CG1	2.46	0.45
4:S:134:GLY:HA3	10:Y:60:ILE:HD11	1.99	0.45
4:S:159:VAL:CG2	4:S:160:SER:N	2.78	0.45
5:T:3:LYS:CA	6:U:12:ILE:HG13	2.46	0.45
8:W:26:ARG:HG2	8:W:90:LEU:HD13	1.99	0.45
8:W:43:LEU:HD13	8:W:64:ILE:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:88:LYS:O	1:A:92:GLU:HG3	2.16	0.45
1:A:326:ILE:O	1:A:326:ILE:HG13	2.16	0.45
1:A:527:VAL:HG11	1:A:530:VAL:HB	1.97	0.45
1:A:665:ILE:O	1:A:669:LYS:HG3	2.17	0.45
1:A:830:LEU:CD1	1:A:846:VAL:HG21	2.47	0.45
1:A:852:ASP:HB2	7:H:71:LEU:HD12	1.99	0.45
2:C:341:VAL:HG13	2:C:364:GLU:HG2	1.98	0.45
3:B:154:VAL:O	3:B:155:ASN:C	2.60	0.45
3:B:462:PRO:O	3:B:464:SER:N	2.49	0.45
3:B:463:ASN:HB3	3:B:467:VAL:CG1	2.45	0.45
3:B:764:LYS:CD	3:B:815:SER:HA	2.41	0.45
3:B:978:LYS:NZ	4:D:205:LEU:HD22	2.32	0.45
4:D:190:LEU:HD11	4:D:195:LEU:HD23	1.98	0.45
5:E:64:GLY:N	8:K:41:LEU:CD2	2.79	0.45
6:F:16:VAL:O	6:F:18:LYS:N	2.49	0.45
8:K:55:ASN:O	8:K:56:LEU:CB	2.65	0.45
10:N:40:VAL:HG11	10:N:46:ARG:HG3	1.98	0.45
10:N:53:VAL:O	10:N:54:ASP:HB3	2.16	0.45
1:Q:30:PRO:CB	1:Q:244:ARG:HA	2.46	0.45
1:Q:422:GLN:HA	1:Q:423:PRO:C	2.41	0.45
1:Q:550:GLN:O	1:Q:553:SER:N	2.49	0.45
2:G:32:LEU:O	2:G:36:ILE:HG13	2.17	0.45
2:G:103:GLY:O	2:G:105:PRO:HD3	2.17	0.45
3:R:165:GLU:OE2	3:R:338:TYR:OH	2.31	0.45
3:R:353:LEU:O	3:R:356:VAL:HG12	2.16	0.45
3:R:729:PHE:C	3:R:731:GLY:N	2.72	0.45
3:R:800:PRO:HD3	3:R:850:VAL:CG2	2.45	0.45
4:S:69:SER:HA	4:S:72:ALA:CB	2.47	0.45
5:T:1:MET:HB2	5:T:78:VAL:O	2.16	0.45
7:V:20:HIS:HB3	7:V:63:ILE:CG2	2.46	0.45
8:W:70:ARG:O	8:W:72:GLY:N	2.49	0.45
10:Y:5:ILE:O	10:Y:6:ARG:HB2	2.16	0.45
10:Y:28:GLY:O	10:Y:29:GLU:O	2.34	0.45
10:Y:54:ASP:OD2	10:Y:54:ASP:C	2.60	0.45
1:A:220:ARG:NH1	1:A:236:THR:HG23	2.32	0.45
1:A:261:ILE:O	1:A:261:ILE:HG22	2.16	0.45
1:A:358:ILE:HD12	1:A:403:PRO:HD3	1.99	0.45
1:A:361:LEU:HG	1:A:407:ILE:HG12	1.98	0.45
1:A:502:TYR:CD2	3:B:734:MET:HE1	2.51	0.45
1:A:649:GLU:HG3	3:B:965:ASP:OD1	2.17	0.45
1:A:823:LEU:HD13	2:C:75:ALA:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:841:LEU:HD23	2:C:367:LYS:HB2	1.99	0.45
1:A:872:PHE:HA	1:A:876:VAL:CB	2.45	0.45
2:C:132:ARG:H	2:C:132:ARG:NE	2.14	0.45
2:C:320:MET:HA	2:C:327:ARG:HG2	1.99	0.45
2:C:390:MET:HE1	5:E:58:ILE:O	2.17	0.45
3:B:337:HIS:CD2	3:B:339:ALA:HB3	2.52	0.45
3:B:395:ARG:O	3:B:399:ALA:HB3	2.16	0.45
3:B:854:GLU:OE2	11:P:24:VAL:HB	2.17	0.45
5:E:17:GLU:CD	5:E:25:ILE:HD12	2.42	0.45
5:E:113:ILE:CG2	5:E:114:THR:N	2.79	0.45
5:E:147:ILE:O	5:E:148:SER:HB3	2.17	0.45
6:F:80:SER:O	6:F:84:ARG:HB2	2.16	0.45
10:N:43:TYR:C	10:N:43:TYR:CD1	2.94	0.45
1:Q:199:PRO:C	1:Q:201:THR:H	2.23	0.45
1:Q:217:ILE:HD13	1:Q:220:ARG:CZ	2.46	0.45
1:Q:488:THR:OG1	1:Q:495:ILE:HD12	2.16	0.45
1:Q:529:ASP:O	1:Q:529:ASP:OD2	2.34	0.45
1:Q:555:PHE:HD1	1:Q:626:TRP:CH2	2.34	0.45
1:Q:661:ILE:HD12	1:Q:711:ALA:HB1	1.98	0.45
2:G:52:PHE:CA	2:G:55:ALA:HB3	2.46	0.45
2:G:328:GLN:O	2:G:333:GLY:HA3	2.16	0.45
3:R:17:TYR:HA	3:R:604:PHE:HB2	1.97	0.45
3:R:145:PRO:C	3:R:147:ASP:N	2.74	0.45
3:R:330:ARG:NH2	3:R:565:GLU:OE2	2.50	0.45
3:R:368:GLN:O	3:R:372:SER:HB3	2.15	0.45
3:R:768:GLY:O	3:R:769:GLN:CB	2.64	0.45
4:S:39:MET:CB	4:S:69:SER:OG	2.65	0.45
4:S:50:ASN:ND2	10:Y:64:ARG:CZ	2.80	0.45
5:T:147:ILE:O	5:T:148:SER:HB3	2.17	0.45
8:W:41:LEU:HD23	8:W:45:MET:HG3	1.99	0.45
10:Y:43:TYR:CD1	10:Y:44:CYS:N	2.85	0.45
1:A:181:ARG:NH1	1:A:185:GLU:OE2	2.50	0.45
1:A:499:ALA:HB3	3:B:734:MET:HE3	1.99	0.45
1:A:594:LEU:O	1:A:595:GLU:O	2.34	0.45
1:A:831:ARG:NH2	2:C:385:MET:HG3	2.30	0.45
1:A:841:LEU:C	1:A:843:GLY:N	2.73	0.45
2:C:52:PHE:O	2:C:56:ILE:N	2.28	0.45
2:C:124:ILE:HG12	2:C:272:VAL:HG13	1.98	0.45
3:B:230:LEU:HD13	3:B:312:ALA:CA	2.47	0.45
3:B:303:THR:O	3:B:303:THR:HG22	2.16	0.45
3:B:661:ASN:OD1	3:B:882:HIS:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:749:MET:CB	10:N:8:PHE:CD1	2.98	0.45
3:B:766:PRO:O	3:B:768:GLY:N	2.49	0.45
3:B:798:VAL:O	11:P:36:MET:SD	2.75	0.45
3:B:839:THR:O	3:B:840:ARG:C	2.59	0.45
3:B:1069:TRP:HB2	3:B:1070:TYR:H	1.59	0.45
4:D:38:ILE:HD12	4:D:38:ILE:C	2.42	0.45
4:D:228:LEU:CD1	4:D:230:ILE:HD11	2.44	0.45
7:H:20:HIS:HB3	7:H:63:ILE:CG2	2.46	0.45
8:K:13:LEU:HD23	8:K:15:PHE:HE1	1.82	0.45
8:K:77:THR:HG23	8:K:90:LEU:O	2.17	0.45
9:L:45:GLN:HE22	9:L:48:PRO:HD3	1.82	0.45
10:N:21:PHE:HE2	10:N:35:LEU:CD2	2.29	0.45
1:Q:184:LEU:HB3	1:Q:204:PRO:HB2	1.98	0.45
1:Q:297:THR:O	1:Q:300:GLN:N	2.50	0.45
1:Q:524:ILE:O	1:Q:525:LEU:CD2	2.65	0.45
1:Q:749:GLN:HA	1:Q:781:PHE:CA	2.47	0.45
2:G:130:TYR:CD1	2:G:136:LYS:HE3	2.52	0.45
2:G:285:GLY:N	7:V:50:PRO:HG3	2.31	0.45
2:G:390:MET:O	2:G:391:ARG:CD	2.64	0.45
3:R:6:THR:CB	3:R:9:GLU:HB3	2.47	0.45
3:R:64:ARG:N	3:R:64:ARG:HD3	2.32	0.45
3:R:223:PHE:CD2	3:R:256:LEU:HD22	2.52	0.45
3:R:281:LYS:HB2	3:R:284:ASN:HB2	1.99	0.45
3:R:679:LEU:HD23	3:R:716:ARG:CG	2.46	0.45
3:R:983:ILE:O	3:R:984:TYR:C	2.59	0.45
4:S:132:LEU:HD12	10:Y:60:ILE:HD13	1.97	0.45
6:U:14:TYR:CD1	6:U:74:SER:CB	2.96	0.45
1:A:79:ARG:CB	1:A:266:TRP:CE3	2.86	0.45
1:A:199:PRO:C	1:A:201:THR:H	2.25	0.45
1:A:430:MET:HB2	3:B:1035:CYS:SG	2.57	0.45
1:A:517:THR:CG2	1:A:518:LYS:N	2.79	0.45
1:A:635:PHE:O	1:A:639:VAL:HG23	2.17	0.45
1:A:645:THR:HA	3:B:912:PRO:HG2	1.98	0.45
1:A:807:VAL:HG11	3:B:443:ARG:HH11	1.80	0.45
3:B:137:LYS:O	3:B:140:GLU:HB2	2.17	0.45
3:B:453:MET:CG	3:B:468:LYS:HD2	2.40	0.45
3:B:538:ASN:O	3:B:542:GLU:CG	2.65	0.45
3:B:804:VAL:HG12	3:B:805:LYS:N	2.31	0.45
3:B:1054:ASP:CG	3:B:1094:SER:HG	2.21	0.45
3:B:1098:LYS:C	3:B:1098:LYS:HD3	2.41	0.45
1:Q:72:PHE:CD2	1:Q:72:PHE:N	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:84:VAL:HG11	1:Q:274:ALA:HB1	1.98	0.45
1:Q:218:THR:HG22	1:Q:218:THR:O	2.17	0.45
1:Q:428:ILE:HD13	1:Q:428:ILE:HA	1.82	0.45
1:Q:465:HIS:HD2	3:R:1048:ARG:HD2	1.81	0.45
1:Q:498:ALA:CB	1:Q:503:ILE:HG22	2.47	0.45
1:Q:678:LYS:HD2	1:Q:684:LEU:HG	1.99	0.45
1:Q:697:GLU:O	1:Q:698:ASN:C	2.60	0.45
1:Q:826:ALA:H	2:G:335:THR:HG22	1.81	0.45
1:Q:841:LEU:C	1:Q:843:GLY:H	2.24	0.45
2:G:130:TYR:CB	2:G:136:LYS:HG3	2.47	0.45
2:G:320:MET:HA	2:G:327:ARG:HG2	1.98	0.45
3:R:53:ILE:HB	3:R:54:PRO:HD3	1.98	0.45
3:R:230:LEU:HD13	3:R:312:ALA:CA	2.46	0.45
3:R:388:ASP:O	3:R:391:THR:N	2.50	0.45
3:R:405:GLY:O	3:R:407:ARG:N	2.50	0.45
3:R:745:VAL:C	3:R:747:ARG:H	2.24	0.45
3:R:1040:GLY:HA3	8:W:30:TYR:CE2	2.50	0.45
4:S:129:PRO:HG2	10:Y:15:ALA:HB1	1.99	0.45
5:T:63:ASP:OD2	5:T:65:ALA:CB	2.63	0.45
11:Z:33:ILE:O	11:Z:34:ILE:C	2.59	0.45
1:A:46:ASP:O	1:A:46:ASP:OD1	2.35	0.45
1:A:84:VAL:HG11	1:A:274:ALA:HB1	1.99	0.45
1:A:187:ILE:HA	1:A:188:PRO:HD3	1.75	0.45
1:A:290:ARG:C	1:A:292:GLY:N	2.74	0.45
1:A:326:ILE:HG21	1:A:462:MET:HG3	1.98	0.45
1:A:353:ILE:HD12	1:A:353:ILE:N	2.31	0.45
1:A:579:ASP:O	1:A:580:CYS:SG	2.75	0.45
1:A:580:CYS:HA	1:A:581:PRO:HD2	1.77	0.45
1:A:728:MET:HG2	3:B:913:HIS:CE1	2.52	0.45
2:C:130:TYR:CB	2:C:136:LYS:HG3	2.47	0.45
2:C:285:GLY:N	7:H:50:PRO:HG3	2.32	0.45
3:B:95:PRO:HB2	3:B:115:TYR:CD2	2.52	0.45
3:B:116:ILE:HD12	3:B:361:PHE:HZ	1.75	0.45
3:B:483:ARG:HA	3:B:486:GLU:HG2	1.99	0.45
3:B:489:LEU:O	3:B:492:MET:N	2.49	0.45
3:B:955:ASN:O	3:B:958:LEU:HB3	2.17	0.45
4:D:52:PRO:CG	10:N:56:ILE:HD11	2.47	0.45
4:D:258:LYS:C	4:D:260:LEU:N	2.75	0.45
4:D:260:LEU:HD23	4:D:260:LEU:C	2.41	0.45
6:F:63:VAL:HG12	6:F:63:VAL:O	2.17	0.45
7:H:25:ILE:HD12	7:H:25:ILE:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:N:1:MET:O	10:N:2:LEU:HB2	2.17	0.45
11:P:33:ILE:O	11:P:34:ILE:C	2.60	0.45
1:Q:218:THR:HG21	3:R:1098:LYS:HZ1	1.81	0.45
1:Q:364:PHE:HA	1:Q:373:PRO:O	2.17	0.45
1:Q:474:ALA:C	1:Q:476:ALA:H	2.25	0.45
1:Q:674:ASN:O	1:Q:677:GLN:N	2.50	0.45
1:Q:782:ILE:HG12	1:Q:790:LEU:HD11	1.98	0.45
1:Q:852:ASP:HB2	7:V:71:LEU:HD12	1.99	0.45
2:G:285:GLY:N	7:V:50:PRO:CG	2.80	0.45
3:R:49:ILE:H	3:R:49:ILE:HG13	1.57	0.45
3:R:50:PRO:HB3	3:R:57:LYS:HG2	1.98	0.45
3:R:87:LEU:HD22	3:R:851:LEU:CD1	2.47	0.45
3:R:256:LEU:C	3:R:258:GLN:N	2.75	0.45
3:R:301:LEU:HD22	3:R:483:ARG:NH2	2.26	0.45
3:R:533:GLY:C	3:R:535:GLU:N	2.75	0.45
3:R:560:THR:HG22	3:R:563:ILE:H	1.82	0.45
3:R:696:HIS:HE1	3:R:869:LEU:HD23	1.82	0.45
3:R:735:GLU:O	3:R:736:ASP:O	2.34	0.45
3:R:978:LYS:NZ	4:S:205:LEU:HD13	2.32	0.45
3:R:988:VAL:CG1	3:R:989:TYR:N	2.80	0.45
3:R:1088:LEU:C	3:R:1089:PHE:HD2	2.25	0.45
4:S:145:LEU:HD12	4:S:145:LEU:N	2.32	0.45
5:T:90:LEU:O	5:T:91:GLN:HB2	2.17	0.45
5:T:175:ILE:HG22	5:T:175:ILE:O	2.17	0.45
6:U:9:GLU:O	6:U:10:HIS:ND1	2.50	0.45
7:V:47:ALA:HB2	7:V:81:VAL:HG13	1.98	0.45
8:W:39:ARG:NE	8:W:68:GLU:OE1	2.50	0.45
10:Y:17:LYS:O	10:Y:18:TRP:C	2.59	0.45
1:A:364:PHE:HD2	1:A:373:PRO:O	2.00	0.44
1:A:409:ARG:HH21	1:A:412:ILE:HG13	1.81	0.44
1:A:487:ILE:CD1	1:A:858:MET:HE2	2.47	0.44
1:A:490:ARG:CG	2:C:77:SER:HB3	2.47	0.44
1:A:558:LYS:CD	3:R:104:GLU:HB2	2.47	0.44
2:C:390:MET:H	2:C:390:MET:HE3	1.82	0.44
3:B:92:TYR:O	3:B:92:TYR:CD2	2.70	0.44
3:B:202:ILE:CG2	3:B:203:GLU:N	2.80	0.44
3:B:388:ASP:OD1	3:B:391:THR:OG1	2.21	0.44
3:B:569:ASN:HB3	3:B:574:ARG:CZ	2.45	0.44
3:B:930:GLY:O	10:N:47:ARG:NH1	2.50	0.44
3:B:947:LYS:HG2	3:B:948:THR:OG1	2.16	0.44
4:D:167:TYR:HB2	4:D:225:LYS:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:244:GLU:O	4:D:245:ALA:C	2.61	0.44
5:E:41:ASP:O	5:E:42:LEU:HD23	2.17	0.44
5:E:58:ILE:HG22	5:E:59:LEU:N	2.32	0.44
5:E:115:ASP:O	5:E:116:ASP:HB2	2.18	0.44
5:E:179:LYS:NZ	6:F:81:ASP:HB2	2.32	0.44
6:F:56:ILE:O	6:F:59:LEU:HB3	2.17	0.44
7:H:47:ALA:C	7:H:49:ASP:N	2.75	0.44
8:K:21:SER:C	8:K:23:TRP:N	2.73	0.44
10:N:44:CYS:SG	10:N:45:CYS:N	2.90	0.44
10:N:54:ASP:OD2	10:N:54:ASP:C	2.60	0.44
1:Q:72:PHE:N	1:Q:72:PHE:HD2	2.16	0.44
1:Q:188:PRO:O	1:Q:192:VAL:HG23	2.17	0.44
1:Q:219:ILE:N	1:Q:219:ILE:CD1	2.80	0.44
1:Q:301:ARG:NH1	1:Q:308:ARG:NH1	2.65	0.44
1:Q:308:ARG:HH22	3:R:1012:LEU:CD1	2.29	0.44
1:Q:316:LYS:HE2	3:R:1094:SER:OG	2.17	0.44
1:Q:330:PRO:HG2	3:R:730:THR:O	2.17	0.44
1:Q:659:LYS:O	1:Q:663:ASN:HB2	2.17	0.44
2:G:55:ALA:C	2:G:58:GLU:H	2.25	0.44
2:G:104:LEU:O	2:G:104:LEU:HD23	2.17	0.44
2:G:284:PHE:N	2:G:284:PHE:CD1	2.85	0.44
2:G:383:THR:O	5:T:61:PHE:HZ	2.00	0.44
2:G:388:LEU:CG	8:W:34:ARG:HG3	2.47	0.44
3:R:51:THR:O	3:R:51:THR:HG22	2.17	0.44
3:R:85:ALA:O	3:R:90:LEU:N	2.48	0.44
3:R:633:LEU:O	3:R:635:PRO:HD2	2.17	0.44
3:R:702:LEU:HD22	3:R:933:ALA:HB1	1.99	0.44
3:R:705:THR:HB	3:R:708:LEU:HB2	1.99	0.44
3:R:724:LEU:HD11	3:R:910:LEU:HB2	1.99	0.44
3:R:972:ASP:O	3:R:974:ARG:N	2.50	0.44
9:X:70:LEU:HD12	9:X:70:LEU:N	2.33	0.44
1:A:380:ARG:C	1:A:382:ASP:H	2.24	0.44
1:A:396:GLU:C	1:A:398:ALA:N	2.73	0.44
1:A:473:ILE:HD12	1:A:473:ILE:C	2.42	0.44
1:A:867:ASP:HB2	2:C:39:LYS:HZ1	1.83	0.44
3:B:281:LYS:HB2	3:B:284:ASN:HB2	1.98	0.44
3:B:530:TYR:OH	3:B:536:LEU:CG	2.65	0.44
3:B:536:LEU:O	3:B:539:LYS:HB2	2.17	0.44
3:B:602:ILE:HB	3:B:606:ASP:HB2	2.00	0.44
3:B:724:LEU:HD11	3:B:910:LEU:HB2	1.99	0.44
3:B:946:TYR:CE1	3:B:949:PRO:HA	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:178:LYS:HA	4:D:181:ASN:HD22	1.82	0.44
5:E:86:GLU:OE1	6:F:75:ILE:HG23	2.17	0.44
10:N:60:ILE:HG13	10:N:61:HIS:N	2.31	0.44
10:N:62:TYR:O	10:N:63:THR:OG1	2.21	0.44
1:Q:362:ARG:HA	1:Q:365:VAL:HG12	1.99	0.44
1:Q:412:ILE:HD12	1:Q:412:ILE:C	2.41	0.44
1:Q:501:ASP:HB2	3:R:734:MET:SD	2.57	0.44
1:Q:649:GLU:HG3	3:R:965:ASP:OD1	2.16	0.44
1:Q:650:ASP:HB3	1:Q:723:ASN:CG	2.40	0.44
1:Q:687:ILE:CD1	1:Q:695:SER:HB3	2.47	0.44
1:Q:697:GLU:CD	1:Q:756:ARG:HD3	2.41	0.44
1:Q:827:LEU:CD1	2:G:315:LEU:HD13	2.43	0.44
1:Q:853:ASP:HB3	1:Q:855:VAL:HB	1.99	0.44
2:G:52:PHE:O	2:G:56:ILE:HG12	2.17	0.44
2:G:301:LEU:O	2:G:304:GLN:HB2	2.17	0.44
3:R:297:PHE:C	3:R:297:PHE:CD2	2.96	0.44
3:R:320:SER:O	3:R:324:GLU:OE2	2.35	0.44
3:R:388:ASP:OD1	3:R:391:THR:OG1	2.25	0.44
3:R:872:PRO:HA	3:R:876:ASP:OD2	2.17	0.44
3:R:895:VAL:HG11	4:S:34:LEU:HG	1.99	0.44
4:S:98:ILE:HD11	4:S:114:ILE:HG12	1.99	0.44
5:T:42:LEU:O	5:T:76:THR:HG21	2.17	0.44
6:U:17:ALA:O	6:U:21:LEU:HG	2.16	0.44
6:U:18:LYS:NZ	6:U:41:LEU:O	2.43	0.44
8:W:60:ASP:O	8:W:61:VAL:O	2.35	0.44
10:Y:18:TRP:O	10:Y:21:PHE:HD1	2.00	0.44
1:A:219:ILE:HG22	3:B:1099:LEU:HD23	2.00	0.44
1:A:412:ILE:HD12	1:A:412:ILE:C	2.42	0.44
1:A:432:ALA:O	1:A:481:LEU:HD23	2.18	0.44
1:A:697:GLU:OE1	1:A:756:ARG:CD	2.64	0.44
2:C:15:GLU:O	2:C:19:GLN:N	2.51	0.44
2:C:80:GLU:CB	2:C:81:PRO:HD3	2.33	0.44
2:C:278:ARG:O	2:C:282:GLU:HG3	2.17	0.44
2:C:369:VAL:HG11	2:C:381:LEU:HD21	1.99	0.44
3:B:170:ASN:O	3:B:171:ARG:C	2.61	0.44
3:B:474:ALA:HB1	3:B:615:TYR:CE2	2.52	0.44
3:B:490:TYR:OH	3:B:527:ILE:HG23	2.16	0.44
3:B:661:ASN:HD21	3:B:921:LEU:C	2.25	0.44
3:B:855:THR:HB	3:B:857:GLU:H	1.81	0.44
4:D:59:ALA:O	4:D:62:LEU:HB2	2.17	0.44
5:E:175:ILE:O	5:E:175:ILE:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:60:SER:HA	6:F:69:ARG:NH2	2.33	0.44
8:K:16:ASN:O	8:K:19:PHE:HB3	2.17	0.44
9:L:65:PRO:HG2	9:L:66:LYS:H	1.81	0.44
1:Q:376:ASN:HA	1:Q:388:LEU:HD22	1.98	0.44
1:Q:541:ALA:CB	1:Q:542:PRO:HD3	2.39	0.44
2:G:115:LYS:O	2:G:116:VAL:CG1	2.56	0.44
2:G:131:LYS:HG2	2:G:248:GLU:C	2.42	0.44
2:G:391:ARG:HH22	8:W:39:ARG:HH12	1.62	0.44
3:R:28:LEU:O	3:R:30:SER:N	2.38	0.44
3:R:137:LYS:O	3:R:140:GLU:HB2	2.18	0.44
3:R:191:SER:CA	3:R:300:HIS:NE2	2.72	0.44
3:R:405:GLY:C	3:R:407:ARG:N	2.75	0.44
3:R:545:ARG:HE	3:R:581:ILE:HD13	1.81	0.44
3:R:840:ARG:NH1	3:R:1021:ALA:HB2	2.33	0.44
3:R:1059:TYR:CE2	3:R:1090:PRO:HG3	2.52	0.44
5:T:93:ASP:CG	5:T:94:ASN:H	2.25	0.44
6:U:14:TYR:HE2	6:U:40:TYR:OH	2.00	0.44
6:U:21:LEU:HA	6:U:24:VAL:CG2	2.48	0.44
7:V:24:ASN:O	7:V:27:GLU:HG2	2.17	0.44
8:W:13:LEU:HD23	8:W:15:PHE:HE1	1.82	0.44
8:W:27:LEU:HD12	8:W:27:LEU:N	2.33	0.44
10:Y:43:TYR:CD1	10:Y:43:TYR:C	2.95	0.44
10:Y:63:THR:HB	10:Y:64:ARG:HD3	2.00	0.44
1:A:77:LEU:HD13	1:A:81:VAL:CG2	2.47	0.44
1:A:217:ILE:HD13	1:A:220:ARG:CZ	2.47	0.44
1:A:532:ILE:O	1:A:532:ILE:CG2	2.66	0.44
1:A:647:ARG:HD2	3:B:965:ASP:HB3	1.99	0.44
1:A:747:LEU:HB2	1:A:782:ILE:HB	1.99	0.44
3:B:227:MET:HE3	3:B:312:ALA:O	2.18	0.44
3:B:430:ILE:HG12	3:B:467:VAL:CG2	2.42	0.44
3:B:472:LEU:HD12	3:B:646:ALA:HA	1.99	0.44
3:B:563:ILE:HG23	3:B:565:GLU:OE1	2.18	0.44
3:B:655:ILE:HG23	3:B:881:ARG:O	2.17	0.44
3:B:881:ARG:NH1	3:B:989:TYR:HB3	2.31	0.44
3:B:1020:ARG:O	3:B:1021:ALA:C	2.60	0.44
3:B:1091:VAL:O	3:B:1091:VAL:HG13	2.17	0.44
3:B:1108:ILE:O	3:B:1108:ILE:HG22	2.17	0.44
4:D:171:GLU:C	4:D:172:ILE:HD12	2.42	0.44
8:K:14:HIS:O	8:K:15:PHE:C	2.60	0.44
8:K:80:ARG:O	8:K:82:LEU:HD23	2.17	0.44
1:Q:203:ARG:NH1	1:Q:203:ARG:CG	2.68	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:215:PRO:HB3	3:R:1106:SER:HB3	1.99	0.44
1:Q:369:PRO:HA	1:Q:410:HIS:CE1	2.47	0.44
1:Q:488:THR:HG23	1:Q:490:ARG:H	1.82	0.44
1:Q:495:ILE:HG12	1:Q:495:ILE:O	2.18	0.44
1:Q:523:GLN:O	1:Q:525:LEU:N	2.51	0.44
1:Q:737:VAL:HA	1:Q:740:ILE:HB	1.98	0.44
1:Q:752:VAL:O	1:Q:753:ARG:HB3	2.18	0.44
2:G:21:SER:O	2:G:33:LYS:HE3	2.18	0.44
3:R:519:LYS:HD2	3:R:565:GLU:HG2	1.98	0.44
3:R:702:LEU:HD13	10:Y:47:ARG:HD2	2.00	0.44
3:R:766:PRO:O	3:R:768:GLY:N	2.51	0.44
3:R:875:GLY:C	3:R:887:VAL:HG13	2.43	0.44
4:S:50:ASN:HD22	10:Y:64:ARG:NH1	2.15	0.44
5:T:164:MET:HA	5:T:169:LEU:HB3	1.99	0.44
8:W:49:ALA:O	8:W:50:LEU:C	2.59	0.44
8:W:74:LEU:N	8:W:74:LEU:HD12	2.32	0.44
1:A:220:ARG:HD2	1:A:236:THR:OG1	2.17	0.44
1:A:362:ARG:HA	1:A:365:VAL:HG12	2.00	0.44
1:A:487:ILE:N	1:A:487:ILE:CD1	2.80	0.44
1:A:687:ILE:CD1	1:A:695:SER:HB3	2.47	0.44
3:B:46:GLN:O	3:B:47:GLY:O	2.35	0.44
3:B:98:LEU:HD13	3:B:98:LEU:C	2.43	0.44
3:B:325:LEU:HD13	3:B:331:GLU:H	1.82	0.44
3:B:497:VAL:O	3:B:498:GLU:C	2.61	0.44
3:B:634:THR:HB	3:B:635:PRO:HD3	1.99	0.44
3:B:783:TYR:C	3:B:784:LYS:HG3	2.43	0.44
3:B:902:LYS:HB3	10:N:42:ARG:CD	2.46	0.44
3:B:932:TYR:HB2	3:B:957:ILE:HG23	1.99	0.44
4:D:72:ALA:C	4:D:74:ASP:H	2.26	0.44
7:H:54:SER:HB3	7:H:55:ILE:H	1.64	0.44
8:K:26:ARG:HB3	8:K:27:LEU:CD1	2.46	0.44
9:L:83:TYR:CZ	9:L:87:ILE:HD12	2.52	0.44
10:N:18:TRP:O	10:N:20:SER:N	2.49	0.44
11:P:31:TYR:HE2	11:P:33:ILE:HG13	1.82	0.44
1:Q:262:ILE:O	1:Q:266:TRP:CD1	2.71	0.44
1:Q:431:MET:HB2	1:Q:453:TYR:OH	2.18	0.44
1:Q:438:LEU:HD23	1:Q:438:LEU:C	2.42	0.44
2:G:309:ASP:OD2	2:G:310:ILE:N	2.51	0.44
3:R:158:GLU:CD	3:R:416:ARG:NH1	2.76	0.44
3:R:448:THR:C	3:R:450:TRP:N	2.71	0.44
3:R:589:VAL:C	3:R:591:ILE:N	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:640:LEU:HD22	3:R:641:GLU:O	2.17	0.44
3:R:797:VAL:HG12	3:R:798:VAL:O	2.17	0.44
4:S:190:LEU:HD11	4:S:195:LEU:HD23	2.00	0.44
5:T:109:HIS:CD2	5:T:111:SER:H	2.35	0.44
5:T:135:VAL:N	5:T:174:TRP:HZ2	2.09	0.44
6:U:41:LEU:C	6:U:43:SER:N	2.75	0.44
1:A:189:ASP:O	1:A:199:PRO:HG3	2.17	0.44
1:A:206:TRP:O	1:A:206:TRP:CE3	2.71	0.44
1:A:599:ASP:O	1:A:600:LYS:C	2.60	0.44
1:A:649:GLU:HG3	3:B:965:ASP:CG	2.43	0.44
2:C:55:ALA:C	2:C:57:LYS:H	2.25	0.44
2:C:390:MET:CB	5:E:56:GLU:HG3	2.35	0.44
3:B:54:PRO:O	3:B:56:LEU:N	2.50	0.44
3:B:119:LEU:HD11	3:B:350:PHE:HE2	1.83	0.44
3:B:119:LEU:HD11	3:B:350:PHE:CE2	2.52	0.44
3:B:405:GLY:O	3:B:407:ARG:N	2.51	0.44
3:B:747:ARG:HD3	10:N:8:PHE:HA	1.99	0.44
3:B:895:VAL:CG1	4:D:34:LEU:HD21	2.44	0.44
3:B:1041:THR:OG1	3:B:1044:LEU:HB3	2.18	0.44
4:D:80:GLU:HA	4:D:83:ILE:HD12	2.00	0.44
8:K:32:ILE:O	8:K:36:ILE:HG13	2.17	0.44
8:K:61:VAL:CG1	8:K:62:ILE:H	2.29	0.44
10:N:22:ILE:HG12	10:N:23:THR:N	2.32	0.44
11:P:22:PRO:HG2	11:P:23:GLY:N	2.32	0.44
1:Q:82:ILE:O	1:Q:82:ILE:HG23	2.18	0.44
1:Q:283:GLY:C	1:Q:285:PRO:CD	2.80	0.44
1:Q:321:SER:O	1:Q:322:SER:HB2	2.18	0.44
1:Q:377:TYR:N	1:Q:388:LEU:HB3	2.28	0.44
1:Q:394:ARG:HB3	1:Q:395:LYS:H	1.66	0.44
2:G:311:ARG:HD3	2:G:311:ARG:N	2.30	0.44
2:G:379:ILE:HD12	3:R:1045:LEU:HD22	1.99	0.44
2:G:382:GLY:C	2:G:384:GLY:N	2.76	0.44
3:R:11:TRP:CZ2	3:R:706:ARG:HG2	2.53	0.44
3:R:72:GLU:O	3:R:73:SER:C	2.60	0.44
3:R:250:ASN:C	3:R:252:LEU:H	2.25	0.44
3:R:699:GLN:HE22	10:Y:48:MET:HE3	1.83	0.44
3:R:899:TYR:HE2	4:S:29:ARG:CZ	2.31	0.44
3:R:1094:SER:O	3:R:1096:ALA:N	2.51	0.44
4:S:48:GLU:HB3	4:S:140:SER:CB	2.48	0.44
7:V:47:ALA:HB2	7:V:81:VAL:CG1	2.48	0.44
1:A:309:PHE:HA	1:A:313:LEU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:505:GLY:O	1:A:506:ALA:O	2.36	0.44
1:A:782:ILE:HG23	1:A:794:GLU:CD	2.43	0.44
2:C:20:ALA:C	2:C:22:ASN:H	2.26	0.44
2:C:52:PHE:C	2:C:55:ALA:HB3	2.42	0.44
2:C:130:TYR:CG	2:C:136:LYS:HG3	2.52	0.44
3:B:699:GLN:CA	10:N:51:SER:O	2.65	0.44
3:B:1061:CYS:CA	3:B:1088:LEU:HD23	2.48	0.44
4:D:125:SER:O	4:D:127:ASP:N	2.41	0.44
4:D:178:LYS:O	4:D:181:ASN:N	2.51	0.44
5:E:44:LEU:O	5:E:44:LEU:HG	2.16	0.44
5:E:152:THR:O	5:E:153:VAL:C	2.61	0.44
6:F:20:LEU:O	6:F:24:VAL:HG23	2.18	0.44
8:K:82:LEU:HB2	8:K:83:PRO:CD	2.46	0.44
1:Q:30:PRO:HD3	1:Q:247:GLU:OE1	2.18	0.44
1:Q:196:GLY:C	1:Q:197:TYR:CD1	2.95	0.44
1:Q:465:HIS:CD2	3:R:1048:ARG:HD2	2.53	0.44
1:Q:530:VAL:O	1:Q:530:VAL:CG1	2.58	0.44
1:Q:674:ASN:CG	1:Q:675:LEU:N	2.75	0.44
1:Q:741:THR:C	1:Q:743:MET:N	2.73	0.44
1:Q:778:ALA:O	1:Q:780:GLY:N	2.50	0.44
2:G:21:SER:O	2:G:33:LYS:CE	2.66	0.44
2:G:240:ALA:C	2:G:241:ILE:HG13	2.42	0.44
3:R:163:THR:CG2	3:R:428:ARG:O	2.63	0.44
3:R:228:ARG:NH2	3:R:233:LEU:O	2.51	0.44
3:R:371:LYS:HB2	3:R:372:SER:H	1.65	0.44
3:R:462:PRO:O	3:R:464:SER:N	2.51	0.44
3:R:745:VAL:CG1	3:R:872:PRO:HG2	2.48	0.44
3:R:1069:TRP:HH2	3:R:1072:LYS:HE3	1.82	0.44
4:S:96:ILE:CG1	4:S:143:ALA:HB3	2.47	0.44
4:S:213:CYS:CB	4:S:217:ILE:HD13	2.48	0.44
6:U:16:VAL:O	6:U:18:LYS:N	2.51	0.44
1:A:192:VAL:CG1	1:A:199:PRO:HD3	2.47	0.44
1:A:290:ARG:C	1:A:292:GLY:H	2.26	0.44
1:A:313:LEU:HD21	3:B:1100:LEU:CD2	2.47	0.44
1:A:331:ASN:ND2	3:B:732:TYR:OH	2.48	0.44
1:A:376:ASN:HA	1:A:388:LEU:HD22	2.00	0.44
1:A:491:TYR:HD2	2:C:308:VAL:HA	1.83	0.44
1:A:500:GLN:HB2	3:B:913:HIS:CD2	2.52	0.44
1:A:524:ILE:HG23	1:A:634:VAL:HG13	1.99	0.44
1:A:727:VAL:O	1:A:729:ALA:N	2.51	0.44
2:C:103:GLY:HA3	2:C:300:VAL:CG1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:134:ARG:O	2:C:138:LEU:HB2	2.17	0.44
2:C:145:GLU:O	2:C:146:TYR:O	2.36	0.44
2:C:301:LEU:O	2:C:304:GLN:HB2	2.17	0.44
3:B:72:GLU:O	3:B:73:SER:C	2.61	0.44
3:B:138:LEU:O	3:B:141:ILE:HB	2.18	0.44
3:B:319:ILE:C	3:B:321:LYS:N	2.75	0.44
3:B:366:THR:O	3:B:370:GLU:HB2	2.18	0.44
3:B:379:LEU:HD23	3:B:379:LEU:HA	1.80	0.44
3:B:416:ARG:HH12	3:B:687:ARG:NH2	1.99	0.44
3:B:679:LEU:HD23	3:B:716:ARG:HG2	2.00	0.44
3:B:687:ARG:HH11	3:B:687:ARG:HG3	1.77	0.44
3:B:738:ILE:HG12	3:B:739:ILE:N	2.32	0.44
3:B:789:TYR:HA	3:B:792:LEU:HD12	1.98	0.44
3:B:1012:LEU:C	3:B:1012:LEU:CD1	2.91	0.44
4:D:159:VAL:HG23	4:D:231:GLU:C	2.42	0.44
4:D:161:LEU:HG	4:D:163:VAL:HG23	2.00	0.44
7:H:47:ALA:HB2	7:H:81:VAL:HG13	1.99	0.44
9:L:46:PRO:CD	9:L:52:LYS:O	2.65	0.44
1:Q:216:PRO:HG2	1:Q:219:ILE:CD1	2.44	0.44
1:Q:290:ARG:C	1:Q:292:GLY:N	2.75	0.44
1:Q:345:LYS:O	1:Q:346:THR:C	2.61	0.44
1:Q:444:ARG:HG3	1:Q:444:ARG:NH1	2.33	0.44
2:G:52:PHE:C	2:G:55:ALA:HB3	2.43	0.44
2:G:54:LEU:O	2:G:58:GLU:N	2.51	0.44
2:G:386:VAL:HG11	8:W:34:ARG:CB	2.47	0.44
3:R:20:SER:O	3:R:25:ARG:NH2	2.51	0.44
3:R:63:ILE:HG13	3:R:98:LEU:CD2	2.46	0.44
3:R:138:LEU:O	3:R:141:ILE:HB	2.17	0.44
3:R:146:LYS:HB2	3:R:716:ARG:HH22	1.82	0.44
3:R:193:THR:OG1	3:R:197:ARG:O	2.36	0.44
3:R:407:ARG:HE	3:R:407:ARG:CA	2.31	0.44
3:R:485:VAL:C	3:R:487:LYS:N	2.76	0.44
3:R:594:ILE:C	3:R:599:SER:HB3	2.42	0.44
3:R:618:ALA:C	3:R:620:GLU:N	2.68	0.44
4:S:64:LEU:O	10:Y:6:ARG:HD2	2.17	0.44
7:V:37:ILE:HD12	7:V:37:ILE:C	2.42	0.44
9:X:69:LEU:HD23	9:X:73:ILE:HG12	2.00	0.44
1:A:30:PRO:HD3	1:A:247:GLU:OE1	2.18	0.44
1:A:218:THR:HG22	1:A:218:THR:O	2.17	0.44
1:A:275:THR:HA	1:A:278:ASP:O	2.18	0.44
1:A:512:LYS:N	1:A:583:ASP:OD2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:752:VAL:O	1:A:753:ARG:CB	2.65	0.44
1:A:761:TYR:HB2	1:A:764:ARG:HG3	2.00	0.44
1:A:770:LYS:CG	1:A:771:PRO:HD2	2.48	0.44
2:C:42:ILE:HD12	2:C:42:ILE:H	1.82	0.44
3:B:51:THR:HG21	3:B:370:GLU:OE1	2.16	0.44
3:B:735:GLU:HA	3:B:735:GLU:OE2	2.18	0.44
3:B:764:LYS:NZ	3:B:814:VAL:N	2.50	0.44
3:B:778:ALA:HB2	3:B:786:LYS:HE2	2.00	0.44
3:B:898:PRO:HA	3:B:971:TYR:O	2.17	0.44
3:B:988:VAL:HG13	3:B:989:TYR:N	2.33	0.44
4:D:55:ASP:O	4:D:59:ALA:HB2	2.18	0.44
4:D:78:TRP:HB3	4:D:79:PRO:HD2	2.00	0.44
5:E:36:GLU:OE2	6:F:34:LEU:HD11	2.18	0.44
8:K:12:ASP:O	8:K:13:LEU:CB	2.63	0.44
1:Q:47:PRO:CG	1:Q:48:ARG:HD3	2.46	0.44
1:Q:366:ILE:HD13	1:Q:395:LYS:HA	2.00	0.44
2:G:25:PRO:O	2:G:28:ILE:HA	2.18	0.44
2:G:130:TYR:CG	2:G:136:LYS:HG3	2.52	0.44
2:G:317:ALA:C	2:G:319:VAL:H	2.26	0.44
3:R:14:ILE:HG12	3:R:18:PHE:CE2	2.52	0.44
3:R:134:THR:O	3:R:137:LYS:N	2.50	0.44
3:R:633:LEU:O	3:R:634:THR:C	2.61	0.44
3:R:799:SER:HB2	3:R:800:PRO:HD2	1.99	0.44
3:R:853:THR:OG1	11:Z:33:ILE:HD13	2.17	0.44
3:R:947:LYS:HG2	3:R:948:THR:OG1	2.17	0.44
3:R:1014:ARG:HH11	3:R:1014:ARG:CG	2.22	0.44
4:S:178:LYS:O	4:S:181:ASN:N	2.50	0.44
4:S:263:VAL:O	4:S:263:VAL:HG12	2.18	0.44
8:W:32:ILE:O	8:W:36:ILE:HG13	2.17	0.44
8:W:89:LEU:C	8:W:90:LEU:HD23	2.42	0.44
10:Y:20:SER:CA	10:Y:23:THR:HB	2.47	0.44
1:A:598:PHE:O	1:A:599:ASP:HB3	2.18	0.43
1:A:634:VAL:O	1:A:635:PHE:C	2.60	0.43
1:A:713:ASP:O	1:A:717:LYS:HD2	2.18	0.43
1:A:782:ILE:HG21	1:A:790:LEU:HD13	2.00	0.43
2:C:135:ASP:C	2:C:137:ALA:N	2.76	0.43
2:C:298:SER:O	2:C:302:ALA:HB2	2.18	0.43
2:C:305:GLY:O	2:C:306:LEU:C	2.61	0.43
2:C:331:ARG:CD	2:C:348:GLU:HB3	2.45	0.43
2:C:365:GLU:CG	2:C:366:PHE:H	2.31	0.43
3:B:24:VAL:HG21	3:B:426:LEU:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:63:ILE:HA	3:B:98:LEU:H	1.83	0.43
3:B:84:GLU:O	3:B:88:ARG:N	2.45	0.43
3:B:250:ASN:C	3:B:252:LEU:H	2.26	0.43
3:B:396:HIS:C	3:B:400:THR:HG22	2.43	0.43
3:B:498:GLU:C	3:B:500:VAL:N	2.76	0.43
3:B:587:PRO:C	3:B:588:LEU:CG	2.90	0.43
3:B:890:MET:HG2	3:B:892:ILE:HD11	2.00	0.43
3:B:1062:ASP:N	3:B:1062:ASP:OD1	2.51	0.43
9:L:87:ILE:HG22	9:L:88:LYS:N	2.32	0.43
1:Q:219:ILE:HG22	3:R:1099:LEU:HD23	2.00	0.43
1:Q:558:LYS:HA	1:Q:590:ASN:O	2.17	0.43
1:Q:563:HIS:CE1	1:Q:876:VAL:HG13	2.51	0.43
1:Q:572:PRO:HG2	1:Q:573:ARG:CD	2.47	0.43
1:Q:715:ALA:C	1:Q:717:LYS:N	2.75	0.43
2:G:297:ILE:C	2:G:299:LYS:N	2.68	0.43
3:R:669:GLN:NE2	3:R:669:GLN:CA	2.79	0.43
3:R:723:ILE:HD12	10:Y:43:TYR:CE1	2.48	0.43
3:R:1074:LYS:CB	3:R:1076:LYS:HG3	2.48	0.43
3:R:1108:ILE:HD12	3:R:1108:ILE:N	2.32	0.43
4:S:128:ILE:HG12	10:Y:16:ASP:HB3	2.00	0.43
5:T:42:LEU:HD23	5:T:42:LEU:N	2.33	0.43
6:U:14:TYR:O	6:U:18:LYS:HE3	2.17	0.43
7:V:32:LEU:HD23	7:V:37:ILE:CD1	2.48	0.43
9:X:67:ASP:C	9:X:69:LEU:H	2.26	0.43
11:Z:31:TYR:HE2	11:Z:33:ILE:HG13	1.83	0.43
1:A:324:THR:CG2	1:A:325:VAL:H	2.26	0.43
1:A:574:LEU:CD2	1:A:575:CYS:N	2.80	0.43
1:A:821:ARG:HG2	1:A:821:ARG:NH1	2.32	0.43
1:A:870:ARG:NH1	2:C:58:GLU:HA	2.33	0.43
2:C:40:GLU:O	2:C:45:ARG:CG	2.65	0.43
3:B:39:LEU:O	3:B:43:ILE:HG12	2.16	0.43
3:B:191:SER:HB3	3:B:298:LEU:HA	1.99	0.43
3:B:228:ARG:NH1	3:B:262:ILE:O	2.51	0.43
3:B:295:LYS:C	3:B:296:TYR:CD1	2.93	0.43
3:B:339:ALA:HB1	3:B:619:GLU:HB2	2.00	0.43
3:B:393:ARG:NH2	3:B:403:TRP:HH2	2.13	0.43
3:B:441:GLU:O	3:B:441:GLU:HG2	2.18	0.43
3:B:469:ASN:N	3:B:469:ASN:ND2	2.66	0.43
3:B:528:GLY:C	3:B:529:TYR:CD1	2.96	0.43
3:B:536:LEU:CD2	3:B:540:ILE:HG13	2.49	0.43
3:B:580:ILE:HG12	3:B:642:ILE:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:617:ASP:O	3:B:618:ALA:HB2	2.18	0.43
4:D:44:VAL:HB	4:D:46:PHE:CE1	2.54	0.43
4:D:78:TRP:N	4:D:78:TRP:HD1	2.16	0.43
5:E:18:PHE:HB2	8:K:48:PRO:HD2	2.00	0.43
5:E:29:GLU:OE1	5:E:29:GLU:HA	2.18	0.43
5:E:149:VAL:HG22	5:E:160:ILE:HA	1.99	0.43
6:F:9:GLU:C	6:F:10:HIS:CG	2.95	0.43
1:Q:661:ILE:HD11	1:Q:714:ILE:HB	1.99	0.43
1:Q:681:ASN:O	1:Q:682:GLY:C	2.61	0.43
1:Q:782:ILE:HG21	1:Q:790:LEU:HD13	2.01	0.43
1:Q:823:LEU:HD13	2:G:75:ALA:O	2.17	0.43
3:R:128:ASP:OD1	3:R:130:ILE:N	2.51	0.43
3:R:290:GLN:HE21	3:R:308:ARG:HH12	1.66	0.43
3:R:356:VAL:HG11	3:R:404:VAL:HG13	2.00	0.43
3:R:462:PRO:C	3:R:464:SER:N	2.76	0.43
3:R:482:GLU:OE2	3:R:525:ARG:NH1	2.51	0.43
3:R:587:PRO:C	3:R:588:LEU:CG	2.91	0.43
3:R:602:ILE:HB	3:R:606:ASP:HB2	2.00	0.43
3:R:783:TYR:C	3:R:784:LYS:HG3	2.44	0.43
3:R:788:TYR:O	3:R:789:TYR:C	2.61	0.43
3:R:804:VAL:CG1	3:R:805:LYS:N	2.80	0.43
6:U:71:ILE:O	6:U:71:ILE:HG22	2.18	0.43
8:W:82:LEU:HD12	8:W:84:ASN:HD22	1.83	0.43
1:A:30:PRO:CB	1:A:244:ARG:HA	2.48	0.43
1:A:262:ILE:HG23	1:A:266:TRP:CD1	2.53	0.43
1:A:330:PRO:HG2	3:B:730:THR:O	2.19	0.43
1:A:334:ILE:HD11	1:A:628:MET:CB	2.43	0.43
1:A:449:VAL:O	1:A:449:VAL:HG12	2.17	0.43
1:A:515:LEU:HD11	1:A:539:ILE:HG13	2.00	0.43
1:A:638:PHE:CZ	1:A:642:GLN:HG3	2.52	0.43
1:A:864:LYS:HE2	7:H:71:LEU:O	2.18	0.43
2:C:85:MET:H	2:C:85:MET:HG3	1.65	0.43
2:C:106:ARG:O	2:C:109:GLU:N	2.52	0.43
3:B:70:VAL:CG1	3:B:80:ILE:HG21	2.48	0.43
3:B:279:GLY:H	3:B:285:ARG:HH22	1.66	0.43
3:B:412:GLN:NE2	3:B:425:HIS:CE1	2.87	0.43
3:B:654:ILE:H	3:B:654:ILE:CD1	2.27	0.43
3:B:669:GLN:HE21	3:B:669:GLN:CA	2.29	0.43
3:B:763:VAL:HG23	3:B:859:ASN:CG	2.43	0.43
3:B:797:VAL:HG22	3:B:811:ILE:HG12	2.01	0.43
3:B:869:LEU:HD21	4:D:56:GLU:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:963:LEU:HA	3:B:964:PRO:HD3	1.81	0.43
4:D:58:LEU:HD23	4:D:58:LEU:C	2.43	0.43
4:D:148:GLY:HA2	4:D:152:GLU:OE1	2.19	0.43
4:D:159:VAL:CG2	4:D:160:SER:N	2.81	0.43
5:E:164:MET:HA	5:E:169:LEU:HB3	1.99	0.43
7:H:20:HIS:CD2	7:H:20:HIS:N	2.86	0.43
8:K:61:VAL:CG1	8:K:62:ILE:N	2.80	0.43
1:Q:79:ARG:HD2	1:Q:266:TRP:CE3	2.53	0.43
1:Q:206:TRP:CZ3	1:Q:209:LEU:HD23	2.53	0.43
1:Q:491:TYR:HD2	2:G:308:VAL:HA	1.83	0.43
1:Q:635:PHE:O	1:Q:639:VAL:HG23	2.19	0.43
1:Q:759:ARG:HH21	1:Q:763:THR:HG23	1.83	0.43
1:Q:832:ALA:CB	2:G:66:PRO:HB2	2.48	0.43
2:G:42:ILE:CD1	2:G:42:ILE:N	2.81	0.43
3:R:34:PHE:HD1	3:R:351:ALA:HB2	1.83	0.43
3:R:81:SER:HB3	3:R:84:GLU:CG	2.46	0.43
9:X:25:GLY:O	9:X:43:TYR:CG	2.71	0.43
1:A:238:LYS:NZ	1:A:276:TYR:CA	2.66	0.43
1:A:258:PRO:HB2	1:A:261:ILE:HD12	2.00	0.43
1:A:436:ARG:O	1:A:437:VAL:C	2.61	0.43
1:A:572:PRO:HG2	1:A:573:ARG:CD	2.47	0.43
1:A:712:GLY:C	1:A:714:ILE:N	2.75	0.43
1:A:758:LYS:HB2	1:A:759:ARG:HD2	1.99	0.43
2:C:103:GLY:CA	2:C:300:VAL:HG13	2.47	0.43
3:B:82:PRO:C	3:B:84:GLU:H	2.25	0.43
3:B:214:PHE:CE2	3:B:296:TYR:O	2.71	0.43
3:B:727:MET:CE	3:B:898:PRO:CG	2.94	0.43
6:F:25:ILE:HA	6:F:28:GLY:O	2.18	0.43
6:F:33:LEU:O	6:F:34:LEU:HD23	2.18	0.43
1:Q:557:PRO:HD3	1:Q:623:TYR:OH	2.18	0.43
1:Q:606:GLN:HE21	1:Q:608:PRO:HG2	1.82	0.43
1:Q:830:LEU:CD1	1:Q:846:VAL:HG21	2.48	0.43
1:Q:851:GLY:O	1:Q:853:ASP:N	2.50	0.43
2:G:115:LYS:C	2:G:116:VAL:CG2	2.89	0.43
2:G:285:GLY:H	7:V:50:PRO:HG3	1.83	0.43
3:R:5:LEU:N	3:R:5:LEU:CD1	2.82	0.43
3:R:204:ARG:HB2	3:R:213:SER:HG	1.78	0.43
3:R:246:PRO:O	3:R:248:VAL:N	2.37	0.43
3:R:291:GLN:O	3:R:293:ILE:N	2.50	0.43
3:R:343:LEU:HD11	3:R:575:VAL:HG23	2.01	0.43
3:R:569:ASN:HB3	3:R:574:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:707:ALA:O	3:R:709:ASP:N	2.52	0.43
4:S:5:LEU:HD11	9:X:90:LEU:O	2.18	0.43
4:S:52:PRO:O	4:S:53:LEU:HD23	2.18	0.43
4:S:148:GLY:HA2	4:S:152:GLU:OE1	2.18	0.43
4:S:239:GLU:CD	4:S:240:ARG:H	2.27	0.43
5:T:14:PRO:HA	5:T:15:PRO:HD3	1.90	0.43
6:U:13:PRO:O	6:U:14:TYR:C	2.61	0.43
10:Y:3:ILE:HG22	10:Y:4:PRO:CD	2.48	0.43
10:Y:14:ILE:O	10:Y:15:ALA:C	2.61	0.43
1:A:364:PHE:HE1	1:A:409:ARG:HD2	1.80	0.43
1:A:377:TYR:O	1:A:408:GLU:HB2	2.19	0.43
1:A:394:ARG:C	1:A:396:GLU:N	2.75	0.43
1:A:417:VAL:CG1	1:A:464:LEU:CD1	2.96	0.43
1:A:524:ILE:O	1:A:525:LEU:CD2	2.66	0.43
1:A:558:LYS:HD2	3:R:104:GLU:HB2	2.00	0.43
1:A:697:GLU:O	1:A:700:ILE:N	2.51	0.43
1:A:872:PHE:CD1	1:A:876:VAL:HG21	2.53	0.43
3:B:5:LEU:HB2	3:B:630:PRO:HG3	2.00	0.43
3:B:70:VAL:CG1	3:B:90:LEU:HD23	2.47	0.43
3:B:257:GLU:O	3:B:258:GLN:C	2.62	0.43
3:B:343:LEU:HD11	3:B:575:VAL:HG23	2.01	0.43
3:B:345:LEU:N	3:B:345:LEU:CD1	2.82	0.43
3:B:373:LYS:CG	3:B:375:ARG:HB2	2.48	0.43
3:B:589:VAL:O	3:B:592:GLU:N	2.46	0.43
3:B:899:TYR:CE2	4:D:29:ARG:CZ	3.02	0.43
3:B:943:THR:C	3:B:945:PHE:H	2.26	0.43
5:E:23:ASN:HA	5:E:26:ALA:HB3	2.00	0.43
5:E:114:THR:CG2	5:E:115:ASP:N	2.81	0.43
7:H:32:LEU:HD23	7:H:37:ILE:CD1	2.48	0.43
8:K:28:THR:O	8:K:30:TYR:N	2.52	0.43
9:L:78:GLY:O	9:L:79:MET:C	2.60	0.43
1:Q:245:ILE:O	1:Q:245:ILE:HG22	2.18	0.43
1:Q:550:GLN:O	1:Q:553:SER:HB3	2.19	0.43
1:Q:651:VAL:CG2	1:Q:743:MET:HB3	2.48	0.43
1:Q:778:ALA:C	1:Q:780:GLY:N	2.77	0.43
2:G:20:ALA:C	2:G:22:ASN:H	2.26	0.43
2:G:134:ARG:O	2:G:138:LEU:HB2	2.18	0.43
2:G:305:GLY:O	2:G:306:LEU:C	2.60	0.43
3:R:492:MET:HE1	3:R:540:ILE:HG12	2.01	0.43
3:R:687:ARG:HH11	3:R:687:ARG:HG3	1.83	0.43
3:R:700:ARG:HB3	10:Y:51:SER:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:972:ASP:OD2	3:R:974:ARG:CG	2.66	0.43
4:S:69:SER:CA	4:S:72:ALA:HB3	2.45	0.43
5:T:1:MET:CE	6:U:11:TYR:HD2	2.31	0.43
5:T:18:PHE:HB2	8:W:47:ALA:HA	2.01	0.43
6:U:54:LYS:HA	6:U:57:GLU:OE1	2.19	0.43
6:U:59:LEU:CD1	6:U:69:ARG:HG2	2.47	0.43
7:V:45:ILE:HG22	7:V:81:VAL:N	2.33	0.43
8:W:43:LEU:C	8:W:45:MET:N	2.76	0.43
10:Y:3:ILE:HG22	10:Y:4:PRO:HD2	1.99	0.43
1:A:72:PHE:CD2	1:A:72:PHE:N	2.86	0.43
1:A:195:LEU:N	1:A:195:LEU:HD12	2.34	0.43
1:A:325:VAL:CG2	1:A:442:THR:HG22	2.49	0.43
1:A:761:TYR:O	3:B:622:GLU:OE1	2.36	0.43
2:C:130:TYR:CD1	2:C:136:LYS:HE3	2.53	0.43
2:C:240:ALA:HB1	2:C:251:ILE:HG23	2.01	0.43
2:C:386:VAL:HG13	2:C:386:VAL:O	2.18	0.43
2:C:391:ARG:HH21	8:K:42:GLN:HG2	1.82	0.43
3:B:89:ASN:ND2	3:B:863:LYS:NZ	2.63	0.43
3:B:191:SER:OG	3:B:299:PRO:HD2	2.18	0.43
3:B:691:ARG:HB3	3:B:754:PHE:HZ	1.82	0.43
3:B:903:GLY:H	4:D:163:VAL:HG22	1.84	0.43
3:B:1041:THR:OG1	3:B:1044:LEU:CB	2.67	0.43
4:D:22:LEU:C	4:D:24:PHE:N	2.75	0.43
4:D:93:TYR:CE1	4:D:144:ARG:NH2	2.86	0.43
4:D:217:ILE:N	4:D:217:ILE:CD1	2.78	0.43
6:F:18:LYS:HZ2	6:F:45:GLU:CG	2.32	0.43
6:F:30:SER:HB2	6:F:34:LEU:CB	2.49	0.43
9:L:43:TYR:O	9:L:44:TYR:HB3	2.17	0.43
9:L:64:THR:O	9:L:65:PRO:C	2.61	0.43
1:Q:92:GLU:O	1:Q:95:LYS:HB2	2.18	0.43
1:Q:353:ILE:CG1	1:Q:361:LEU:HD23	2.44	0.43
1:Q:770:LYS:CG	1:Q:771:PRO:HD2	2.49	0.43
1:Q:837:THR:HG23	1:Q:847:GLN:O	2.18	0.43
2:G:103:GLY:O	2:G:104:LEU:CB	2.65	0.43
2:G:135:ASP:C	2:G:137:ALA:N	2.76	0.43
2:G:250:ILE:CG2	2:G:251:ILE:H	2.29	0.43
2:G:322:ARG:HA	7:V:43:PRO:O	2.18	0.43
3:R:433:LEU:HD12	3:R:435:ARG:HH12	1.83	0.43
3:R:474:ALA:CB	3:R:578:PRO:HD3	2.49	0.43
3:R:591:ILE:O	3:R:594:ILE:HG13	2.19	0.43
3:R:733:ASN:HB3	3:R:739:ILE:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:838:VAL:CG1	3:R:839:THR:N	2.82	0.43
3:R:852:ILE:HD12	3:R:852:ILE:N	2.33	0.43
3:R:911:ASN:ND2	3:R:913:HIS:H	2.16	0.43
6:U:30:SER:OG	6:U:38:TYR:HE1	1.98	0.43
8:W:50:LEU:HD23	8:W:74:LEU:HA	2.01	0.43
10:Y:30:ASN:O	10:Y:31:PRO:C	2.61	0.43
1:A:272:HIS:O	1:A:275:THR:HB	2.18	0.43
1:A:313:LEU:HD12	1:A:313:LEU:HA	1.86	0.43
1:A:481:LEU:HD23	1:A:482:VAL:N	2.28	0.43
1:A:761:TYR:HB3	1:A:764:ARG:HG3	2.00	0.43
1:A:827:LEU:HD12	1:A:830:LEU:HD12	1.99	0.43
1:A:864:LYS:O	1:A:864:LYS:CG	2.58	0.43
3:B:102:PRO:C	3:B:103:VAL:CG2	2.92	0.43
3:B:246:PRO:C	3:B:248:VAL:H	2.24	0.43
3:B:281:LYS:HB2	3:B:284:ASN:CG	2.43	0.43
3:B:369:LEU:HA	3:B:369:LEU:HD23	1.84	0.43
3:B:416:ARG:CZ	3:B:687:ARG:NH2	2.82	0.43
3:B:479:GLY:CA	3:B:552:GLU:HB3	2.30	0.43
3:B:490:TYR:CE1	3:B:527:ILE:CG2	2.99	0.43
3:B:595:GLU:CA	3:B:599:SER:HB3	2.49	0.43
3:B:691:ARG:CZ	3:B:756:ARG:HH21	2.32	0.43
3:B:708:LEU:O	3:B:708:LEU:CD1	2.61	0.43
3:B:952:GLN:O	3:B:955:ASN:N	2.52	0.43
3:B:972:ASP:CG	3:B:974:ARG:HG2	2.43	0.43
3:B:1046:LYS:C	3:B:1048:ARG:N	2.74	0.43
3:B:1062:ASP:OD1	3:B:1087:ASN:O	2.37	0.43
4:D:52:PRO:O	4:D:53:LEU:HD23	2.18	0.43
4:D:61:ARG:HG2	4:D:61:ARG:HH11	1.83	0.43
5:E:27:LEU:HD23	5:E:28:ASN:N	2.34	0.43
6:F:21:LEU:HA	6:F:24:VAL:HG23	2.01	0.43
8:K:74:LEU:HA	8:K:75:PRO:HD3	1.81	0.43
1:Q:238:LYS:HD3	1:Q:276:TYR:CA	2.46	0.43
1:Q:294:PRO:O	1:Q:295:LEU:O	2.37	0.43
1:Q:522:GLN:HG2	9:X:40:PHE:CD1	2.53	0.43
3:R:393:ARG:NH2	3:R:403:TRP:HH2	2.15	0.43
3:R:405:GLY:C	3:R:407:ARG:H	2.26	0.43
3:R:543:ARG:NH2	3:R:548:GLU:OE2	2.49	0.43
3:R:669:GLN:C	3:R:671:ALA:N	2.77	0.43
3:R:779:GLY:O	3:R:780:VAL:HG22	2.19	0.43
3:R:932:TYR:HB2	3:R:957:ILE:HG23	2.00	0.43
3:R:988:VAL:HG13	3:R:989:TYR:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:194:LYS:C	4:S:196:SER:N	2.77	0.43
7:V:20:HIS:CD2	7:V:20:HIS:N	2.86	0.43
9:X:80:THR:O	9:X:83:TYR:HB3	2.18	0.43
10:Y:43:TYR:O	10:Y:44:CYS:C	2.62	0.43
1:A:72:PHE:N	1:A:72:PHE:HD2	2.17	0.43
1:A:233:ASP:O	1:A:236:THR:HB	2.18	0.43
1:A:247:GLU:O	1:A:251:GLU:HG3	2.19	0.43
1:A:467:PRO:HA	3:B:1047:ASP:OD1	2.19	0.43
1:A:606:GLN:NE2	1:A:608:PRO:HG2	2.33	0.43
1:A:748:GLY:HA2	1:A:781:PHE:CE2	2.54	0.43
2:C:25:PRO:HG3	2:C:33:LYS:NZ	2.34	0.43
2:C:317:ALA:C	2:C:319:VAL:H	2.27	0.43
2:C:322:ARG:N	2:C:322:ARG:CD	2.78	0.43
2:C:352:LYS:O	2:C:353:HIS:C	2.61	0.43
2:C:379:ILE:CD1	3:B:1045:LEU:HD22	2.49	0.43
3:B:358:PHE:O	3:B:360:ALA:N	2.52	0.43
3:B:433:LEU:HD12	3:B:435:ARG:HH12	1.84	0.43
3:B:729:PHE:C	3:B:731:GLY:N	2.73	0.43
3:B:813:LYS:HE2	3:B:835:THR:HG21	2.01	0.43
3:B:846:ILE:O	3:B:847:VAL:C	2.61	0.43
4:D:44:VAL:HB	4:D:46:PHE:HE1	1.82	0.43
4:D:217:ILE:O	4:D:219:ILE:HG13	2.19	0.43
4:D:239:GLU:CD	4:D:240:ARG:N	2.77	0.43
5:E:63:ASP:OD2	5:E:65:ALA:CB	2.66	0.43
8:K:54:ASN:ND2	8:K:58:SER:HB2	2.34	0.43
9:L:8:SER:HB2	9:L:13:LEU:HD13	2.00	0.43
10:N:43:TYR:CD1	10:N:44:CYS:N	2.87	0.43
11:P:26:CYS:CB	11:P:27:PRO:CD	2.93	0.43
1:Q:19:ILE:HA	1:Q:22:MET:CE	2.37	0.43
1:Q:79:ARG:CB	1:Q:266:TRP:CE3	2.88	0.43
1:Q:559:ASP:OD1	1:Q:559:ASP:C	2.61	0.43
1:Q:609:GLU:O	1:Q:610:SER:C	2.62	0.43
1:Q:697:GLU:OE1	1:Q:756:ARG:CD	2.65	0.43
1:Q:870:ARG:NH1	2:G:58:GLU:HA	2.34	0.43
1:Q:874:ARG:HD3	1:Q:874:ARG:HA	1.72	0.43
2:G:146:TYR:N	2:G:146:TYR:CD1	2.72	0.43
2:G:317:ALA:C	2:G:319:VAL:N	2.74	0.43
2:G:354:LEU:HD13	3:R:1104:LEU:CD2	2.48	0.43
3:R:138:LEU:O	3:R:139:ILE:C	2.60	0.43
3:R:381:LEU:O	3:R:385:VAL:HG23	2.19	0.43
3:R:789:TYR:HA	3:R:792:LEU:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:915:LEU:HB3	3:R:916:PRO:CD	2.48	0.43
3:R:956:GLU:C	3:R:958:LEU:N	2.76	0.43
3:R:1097:PHE:O	3:R:1098:LYS:C	2.60	0.43
3:R:1099:LEU:O	3:R:1102:GLN:HB2	2.19	0.43
4:S:260:LEU:HD23	4:S:260:LEU:C	2.44	0.43
5:T:38:ILE:CG2	5:T:39:LEU:H	2.17	0.43
6:U:88:VAL:HG12	6:U:89:MET:N	2.32	0.43
1:A:47:PRO:HG2	1:A:48:ARG:N	2.32	0.43
1:A:61:CYS:HB3	1:A:63:ASN:ND2	2.33	0.43
1:A:212:LEU:HD21	1:A:242:ILE:HD13	2.00	0.43
1:A:302:LEU:HD12	1:A:302:LEU:O	2.19	0.43
1:A:316:LYS:NZ	3:B:1049:LEU:HD12	2.34	0.43
1:A:381:PRO:HB3	1:A:404:GLY:O	2.19	0.43
1:A:694:GLU:O	1:A:697:GLU:HB2	2.19	0.43
1:A:782:ILE:HG22	1:A:784:SER:H	1.82	0.43
2:C:49:ASP:O	2:C:50:LYS:C	2.62	0.43
2:C:318:ASP:OD2	2:C:322:ARG:NH1	2.51	0.43
3:B:51:THR:O	3:B:51:THR:HG22	2.17	0.43
3:B:430:ILE:HG22	3:B:431:SER:N	2.33	0.43
3:B:679:LEU:HD23	3:B:716:ARG:CG	2.49	0.43
3:B:920:THR:C	3:B:921:LEU:O	2.62	0.43
4:D:98:ILE:HD11	4:D:114:ILE:HG12	2.00	0.43
5:E:3:LYS:HE2	6:F:9:GLU:OE2	2.19	0.43
5:E:38:ILE:CG2	5:E:39:LEU:H	2.20	0.43
7:H:58:LYS:HA	7:H:59:PRO:HD3	1.87	0.43
10:N:21:PHE:CE2	10:N:49:LEU:HD13	2.54	0.43
1:Q:747:LEU:HD12	1:Q:782:ILE:HG12	2.01	0.43
1:Q:825:ASN:O	1:Q:827:LEU:N	2.51	0.43
3:R:50:PRO:HG2	3:R:51:THR:N	2.25	0.43
3:R:191:SER:HB3	3:R:298:LEU:HA	2.01	0.43
3:R:395:ARG:O	3:R:399:ALA:CB	2.67	0.43
3:R:428:ARG:HG2	3:R:469:ASN:ND2	2.34	0.43
3:R:463:ASN:HB3	3:R:467:VAL:CG1	2.49	0.43
3:R:790:ARG:HG3	3:R:791:LEU:N	2.34	0.43
4:S:228:LEU:CD1	4:S:230:ILE:HD11	2.44	0.43
5:T:21:PRO:HG2	5:T:24:GLU:OE2	2.19	0.43
5:T:100:ASN:ND2	6:U:36:ARG:HD3	2.32	0.43
6:U:31:SER:O	6:U:35:GLN:HG3	2.19	0.43
6:U:60:SER:C	6:U:62:ILE:N	2.77	0.43
8:W:12:ASP:O	8:W:13:LEU:CB	2.63	0.43
10:Y:14:ILE:HG22	10:Y:49:LEU:HD21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:60:ILE:HG13	10:Y:61:HIS:N	2.34	0.43
1:A:26:ALA:C	1:A:27:ILE:HD12	2.44	0.43
1:A:84:VAL:HG11	1:A:281:ILE:HD12	2.01	0.43
1:A:245:ILE:O	1:A:245:ILE:HG22	2.18	0.43
1:A:334:ILE:HG23	1:A:449:VAL:CG2	2.48	0.43
1:A:425:LEU:O	1:A:425:LEU:HD13	2.19	0.43
1:A:506:ALA:HB1	1:A:598:PHE:CB	2.49	0.43
1:A:782:ILE:HG12	1:A:790:LEU:HD11	2.00	0.43
1:A:791:LYS:H	1:A:794:GLU:HB2	1.84	0.43
1:A:856:PHE:HB3	1:A:859:TYR:CE1	2.54	0.43
3:B:9:GLU:HA	3:B:592:GLU:OE1	2.19	0.43
3:B:31:TYR:O	3:B:34:PHE:HB3	2.19	0.43
3:B:50:PRO:HB3	3:B:57:LYS:HG2	2.00	0.43
3:B:276:VAL:CG1	3:B:277:ALA:H	2.19	0.43
3:B:529:TYR:CD1	3:B:529:TYR:N	2.87	0.43
3:B:569:ASN:HB3	3:B:574:ARG:NH1	2.34	0.43
3:B:586:ASN:HA	3:B:587:PRO:HD3	1.75	0.43
3:B:771:ASP:OD1	3:B:816:PRO:HG3	2.19	0.43
4:D:18:GLU:CD	4:D:225:LYS:CD	2.88	0.43
4:D:182:VAL:HG23	4:D:183:CYS:N	2.34	0.43
5:E:88:GLU:H	5:E:99:VAL:HG12	1.81	0.43
8:K:82:LEU:HD23	8:K:82:LEU:N	2.30	0.43
10:N:3:ILE:HG22	10:N:4:PRO:HD2	1.99	0.43
1:Q:242:ILE:HD11	1:Q:273:VAL:HA	2.00	0.43
1:Q:364:PHE:CE2	1:Q:373:PRO:HB3	2.53	0.43
1:Q:420:ASN:HD22	1:Q:421:ARG:N	2.16	0.43
1:Q:481:LEU:CD2	1:Q:482:VAL:N	2.81	0.43
1:Q:827:LEU:CG	2:G:75:ALA:HB2	2.46	0.43
1:Q:839:ARG:NH1	7:V:37:ILE:HG23	2.34	0.43
2:G:85:MET:H	2:G:85:MET:HG3	1.68	0.43
2:G:132:ARG:H	2:G:132:ARG:CD	2.32	0.43
2:G:263:SER:O	2:G:264:VAL:C	2.62	0.43
3:R:214:PHE:CE2	3:R:296:TYR:O	2.72	0.43
3:R:301:LEU:CD2	3:R:483:ARG:HH21	2.24	0.43
3:R:345:LEU:HD12	3:R:345:LEU:N	2.34	0.43
3:R:459:PRO:HD2	3:R:467:VAL:HG13	2.01	0.43
3:R:661:ASN:HD21	3:R:921:LEU:C	2.26	0.43
3:R:743:SER:C	3:R:745:VAL:N	2.76	0.43
3:R:805:LYS:O	3:R:806:GLY:O	2.37	0.43
3:R:890:MET:HG3	3:R:891:LEU:N	2.34	0.43
3:R:915:LEU:O	3:R:916:PRO:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:958:LEU:HD23	3:R:958:LEU:O	2.18	0.43
4:S:133:LEU:HD11	4:S:139:ILE:HG12	2.00	0.43
4:S:182:VAL:HG23	4:S:183:CYS:N	2.34	0.43
4:S:217:ILE:O	4:S:219:ILE:HG13	2.18	0.43
5:T:60:VAL:O	5:T:61:PHE:C	2.62	0.43
6:U:9:GLU:C	6:U:10:HIS:CG	2.97	0.43
10:Y:21:PHE:HE2	10:Y:35:LEU:CD2	2.30	0.43
11:Z:20:VAL:HG23	11:Z:20:VAL:O	2.19	0.43
1:A:79:ARG:HD2	1:A:266:TRP:CE3	2.53	0.42
1:A:297:THR:O	1:A:300:GLN:N	2.52	0.42
1:A:343:ILE:HD11	3:B:1001:LEU:HG	2.01	0.42
1:A:364:PHE:CE2	1:A:373:PRO:HB3	2.54	0.42
1:A:417:VAL:HG11	1:A:464:LEU:HD11	2.00	0.42
1:A:559:ASP:OD1	1:A:559:ASP:C	2.61	0.42
1:A:675:LEU:HD23	1:A:684:LEU:HD11	2.01	0.42
1:A:866:VAL:O	1:A:867:ASP:C	2.61	0.42
3:B:87:LEU:HD22	3:B:851:LEU:CD1	2.48	0.42
3:B:321:LYS:HE3	3:B:321:LYS:HB3	1.81	0.42
3:B:559:VAL:O	3:B:563:ILE:O	2.37	0.42
3:B:697:TYR:CD1	10:N:4:PRO:HG3	2.54	0.42
3:B:1073:ASN:O	3:B:1074:LYS:HB2	2.19	0.42
5:E:147:ILE:CD1	5:E:163:THR:HB	2.49	0.42
8:K:26:ARG:HG2	8:K:90:LEU:CD1	2.49	0.42
9:L:74:GLU:O	9:L:75:ASN:C	2.60	0.42
9:L:87:ILE:O	9:L:91:THR:HG23	2.19	0.42
10:N:3:ILE:HA	10:N:52:HIS:NE2	2.33	0.42
1:Q:220:ARG:NH1	1:Q:236:THR:HG23	2.34	0.42
1:Q:377:TYR:HE1	1:Q:385:ARG:CG	2.32	0.42
2:G:140:VAL:O	2:G:144:LEU:HG	2.18	0.42
2:G:379:ILE:HD12	3:R:1045:LEU:CD2	2.48	0.42
2:G:390:MET:CG	5:T:56:GLU:HG2	2.49	0.42
3:R:679:LEU:HD23	3:R:716:ARG:CD	2.49	0.42
3:R:708:LEU:O	3:R:708:LEU:CD1	2.65	0.42
3:R:932:TYR:O	3:R:933:ALA:CB	2.66	0.42
11:Z:13:PHE:CD1	11:Z:13:PHE:N	2.87	0.42
1:A:206:TRP:CZ3	3:B:1108:ILE:HG21	2.54	0.42
1:A:377:TYR:HE1	1:A:385:ARG:CG	2.30	0.42
1:A:651:VAL:HG21	1:A:743:MET:HB3	2.01	0.42
2:C:15:GLU:HA	2:C:18:LYS:HG3	2.00	0.42
2:C:267:VAL:O	2:C:267:VAL:HG12	2.19	0.42
2:C:317:ALA:C	2:C:319:VAL:N	2.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:838:VAL:CG1	3:B:839:THR:H	2.31	0.42
4:D:66:PRO:HG2	10:N:13:LEU:HD11	2.01	0.42
4:D:176:CYS:H	4:D:195:LEU:CD2	2.31	0.42
6:F:54:LYS:HA	6:F:57:GLU:OE1	2.19	0.42
7:H:62:ILE:H	7:H:62:ILE:CD1	2.31	0.42
8:K:50:LEU:HD23	8:K:74:LEU:HA	2.00	0.42
1:Q:737:VAL:HG23	1:Q:738:LEU:N	2.34	0.42
1:Q:759:ARG:HH21	1:Q:763:THR:HA	1.85	0.42
2:G:54:LEU:HD23	2:G:54:LEU:C	2.43	0.42
3:R:39:LEU:O	3:R:43:ILE:HG12	2.19	0.42
3:R:50:PRO:CG	3:R:51:THR:N	2.81	0.42
3:R:134:THR:N	3:R:137:LYS:HB2	2.34	0.42
3:R:243:SER:O	3:R:249:GLN:OE1	2.37	0.42
3:R:253:PHE:HA	3:R:256:LEU:CD1	2.49	0.42
3:R:530:TYR:OH	3:R:536:LEU:CG	2.67	0.42
3:R:580:ILE:HG12	3:R:642:ILE:HG12	2.00	0.42
3:R:658:PRO:C	3:R:660:HIS:N	2.71	0.42
3:R:882:HIS:HE1	3:R:926:GLU:OE1	2.02	0.42
3:R:895:VAL:CG1	4:S:34:LEU:HD21	2.47	0.42
3:R:899:TYR:O	3:R:971:TYR:N	2.42	0.42
3:R:1105:MET:HG3	3:R:1111:PRO:HG3	2.01	0.42
4:S:250:ILE:H	4:S:250:ILE:HG13	1.43	0.42
5:T:97:ILE:HD11	5:T:136:ILE:HG21	2.01	0.42
8:W:31:GLU:O	8:W:35:VAL:HG13	2.20	0.42
9:X:45:GLN:HE22	9:X:48:PRO:N	2.16	0.42
1:A:25:THR:HG22	1:A:26:ALA:N	2.35	0.42
1:A:249:LEU:HD21	1:A:265:LEU:HB3	2.02	0.42
1:A:737:VAL:HG23	1:A:738:LEU:N	2.34	0.42
2:C:60:SER:OG	2:C:61:GLU:N	2.51	0.42
2:C:117:PRO:HD2	2:C:120:PRO:HG3	2.00	0.42
3:B:21:LYS:CA	3:B:25:ARG:NH1	2.82	0.42
3:B:97:TRP:CZ3	3:B:113:GLU:HB3	2.54	0.42
3:B:243:SER:OG	3:B:246:PRO:HG3	2.18	0.42
3:B:789:TYR:HB2	3:B:790:ARG:H	1.74	0.42
3:B:899:TYR:HE2	4:D:29:ARG:CZ	2.32	0.42
3:B:1073:ASN:C	3:B:1075:ASN:H	2.27	0.42
4:D:39:MET:HG2	4:D:121:VAL:HG11	2.01	0.42
4:D:48:GLU:HB3	4:D:140:SER:CB	2.49	0.42
4:D:79:PRO:HG2	4:D:149:TYR:CE1	2.54	0.42
4:D:165:ARG:HG2	4:D:165:ARG:HH11	1.83	0.42
4:D:167:TYR:HB3	4:D:222:VAL:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:37:ILE:HD12	7:H:37:ILE:C	2.44	0.42
8:K:90:LEU:H	8:K:90:LEU:CD2	2.25	0.42
1:Q:670:VAL:CG2	1:Q:671:GLU:N	2.82	0.42
1:Q:675:LEU:HD23	1:Q:684:LEU:HD11	2.01	0.42
1:Q:765:THR:C	1:Q:766:LEU:HD22	2.44	0.42
2:G:13:LEU:HD23	2:G:16:LYS:HZ2	1.85	0.42
3:R:5:LEU:HG	3:R:630:PRO:HB2	2.00	0.42
3:R:98:LEU:HD22	3:R:99:THR:N	2.33	0.42
3:R:234:THR:HB	3:R:237:ASP:OD2	2.19	0.42
3:R:234:THR:CG2	3:R:236:ARG:HB2	2.49	0.42
3:R:325:LEU:HD13	3:R:331:GLU:H	1.84	0.42
3:R:536:LEU:O	3:R:539:LYS:HB2	2.19	0.42
3:R:705:THR:CG2	3:R:706:ARG:H	2.06	0.42
3:R:957:ILE:H	3:R:957:ILE:HG12	1.46	0.42
3:R:1059:TYR:HA	3:R:1089:PHE:O	2.20	0.42
3:R:1105:MET:HG2	3:R:1111:PRO:CD	2.50	0.42
4:S:131:VAL:HA	10:Y:2:LEU:HD11	2.01	0.42
5:T:31:ARG:HG2	5:T:35:GLN:OE1	2.19	0.42
5:T:134:LYS:HD3	5:T:174:TRP:CD1	2.53	0.42
1:A:268:LEU:HD23	1:A:268:LEU:HA	1.94	0.42
1:A:446:ASN:O	1:A:447:LEU:C	2.62	0.42
1:A:488:THR:HG23	1:A:490:ARG:H	1.84	0.42
1:A:523:GLN:O	1:A:525:LEU:N	2.53	0.42
1:A:638:PHE:CD1	1:A:641:LEU:HD11	2.54	0.42
1:A:649:GLU:HG3	3:B:965:ASP:OD2	2.19	0.42
2:C:65:ALA:HB2	8:K:19:PHE:HE1	1.84	0.42
2:C:115:LYS:O	2:C:116:VAL:CG1	2.54	0.42
2:C:390:MET:O	2:C:391:ARG:CD	2.66	0.42
3:B:128:ASP:OD1	3:B:130:ILE:CG1	2.67	0.42
3:B:269:LEU:HD13	3:B:290:GLN:HG3	2.01	0.42
3:B:297:PHE:C	3:B:297:PHE:CD2	2.97	0.42
3:B:574:ARG:O	3:B:574:ARG:HG3	2.19	0.42
3:B:640:LEU:HD22	3:B:641:GLU:O	2.19	0.42
3:B:744:SER:HB3	10:N:8:PHE:HB3	2.01	0.42
3:B:745:VAL:C	3:B:747:ARG:H	2.26	0.42
3:B:963:LEU:HD22	3:B:982:ARG:NH2	2.34	0.42
4:D:108:MET:CG	4:D:110:TYR:CE1	3.03	0.42
4:D:178:LYS:HA	4:D:181:ASN:ND2	2.34	0.42
5:E:46:LEU:O	5:E:47:ALA:HB2	2.18	0.42
5:E:92:VAL:CG1	5:E:127:ILE:HG12	2.49	0.42
5:E:134:LYS:HD3	5:E:174:TRP:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:41:LEU:C	6:F:43:SER:N	2.73	0.42
7:H:54:SER:O	7:H:56:ASN:N	2.52	0.42
9:L:66:LYS:O	9:L:70:LEU:CD1	2.67	0.42
9:L:74:GLU:O	9:L:77:ARG:HB3	2.20	0.42
1:Q:238:LYS:HZ3	1:Q:297:THR:CB	2.24	0.42
1:Q:272:HIS:O	1:Q:275:THR:HB	2.18	0.42
1:Q:427:ARG:NH1	2:G:73:VAL:HG11	2.34	0.42
1:Q:525:LEU:HG	9:X:40:PHE:CZ	2.52	0.42
1:Q:527:VAL:HG11	1:Q:530:VAL:HB	1.99	0.42
1:Q:759:ARG:HE	1:Q:759:ARG:HB3	1.56	0.42
2:G:15:GLU:O	2:G:16:LYS:C	2.62	0.42
3:R:303:THR:O	3:R:303:THR:HG22	2.18	0.42
3:R:339:ALA:HB1	3:R:619:GLU:HB2	2.00	0.42
3:R:369:LEU:HG	3:R:384:LEU:HD13	2.01	0.42
3:R:451:GLY:N	3:R:647:ILE:HG23	2.22	0.42
3:R:657:TYR:N	3:R:658:PRO:CD	2.83	0.42
3:R:943:THR:CG2	3:R:944:PRO:CD	2.94	0.42
3:R:1071:ASP:O	3:R:1073:ASN:N	2.46	0.42
4:S:53:LEU:HD22	4:S:57:ILE:CG2	2.40	0.42
5:T:142:VAL:CG1	5:T:171:LYS:HA	2.43	0.42
9:X:7:LYS:HE3	9:X:12:TYR:CE2	2.53	0.42
9:X:47:HIS:NE2	9:X:49:LEU:HB2	2.34	0.42
1:A:13:ILE:HD12	1:A:207:MET:HG2	2.01	0.42
1:A:30:PRO:HB2	1:A:244:ARG:CG	2.48	0.42
1:A:212:LEU:HD21	1:A:242:ILE:CD1	2.49	0.42
1:A:316:LYS:HD2	3:B:1049:LEU:O	2.19	0.42
1:A:425:LEU:CD2	2:C:83:THR:HG21	2.50	0.42
1:A:569:SER:HB2	1:A:584:SER:HG	1.84	0.42
1:A:607:GLN:N	1:A:608:PRO:HD2	2.34	0.42
1:A:613:HIS:O	1:A:615:LEU:N	2.53	0.42
1:A:659:LYS:O	1:A:663:ASN:HB2	2.19	0.42
1:A:672:VAL:O	1:A:674:ASN:N	2.52	0.42
2:C:126:LEU:CD1	2:C:131:LYS:HA	2.50	0.42
2:C:388:LEU:HD21	8:K:34:ARG:HG3	2.02	0.42
2:C:393:ILE:HB	5:E:19:GLY:HA2	2.02	0.42
3:B:34:PHE:HD1	3:B:351:ALA:HB2	1.84	0.42
3:B:193:THR:HG21	3:B:197:ARG:C	2.44	0.42
3:B:219:GLY:C	3:B:220:LYS:HG3	2.45	0.42
3:B:269:LEU:HD13	3:B:286:ILE:HG23	2.01	0.42
3:B:459:PRO:HD2	3:B:467:VAL:HG13	2.00	0.42
3:B:533:GLY:C	3:B:535:GLU:N	2.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:840:ARG:HB2	3:B:843:GLU:CB	2.49	0.42
3:B:1004:ARG:CZ	3:B:1007:GLY:H	2.32	0.42
3:B:1079:CYS:C	3:B:1081:ILE:N	2.75	0.42
3:B:1108:ILE:HD12	3:B:1108:ILE:N	2.34	0.42
4:D:7:HIS:O	4:D:8:LYS:HB2	2.20	0.42
4:D:111:SER:O	4:D:114:ILE:HG13	2.19	0.42
4:D:165:ARG:HG2	4:D:165:ARG:NH1	2.34	0.42
4:D:203:CYS:HA	14:D:1001:F3S:S4	2.59	0.42
5:E:42:LEU:O	5:E:76:THR:HG21	2.19	0.42
5:E:88:GLU:C	5:E:99:VAL:HG13	2.45	0.42
5:E:151:SER:HB3	5:E:158:PRO:HB3	2.00	0.42
9:L:1:MET:HA	9:L:18:GLU:O	2.19	0.42
1:Q:187:ILE:HA	1:Q:188:PRO:HD3	1.75	0.42
1:Q:233:ASP:O	1:Q:236:THR:HB	2.19	0.42
1:Q:336:GLU:OE1	1:Q:436:ARG:NH1	2.52	0.42
1:Q:377:TYR:O	1:Q:408:GLU:HB2	2.19	0.42
1:Q:394:ARG:C	1:Q:396:GLU:N	2.76	0.42
1:Q:464:LEU:HD13	1:Q:464:LEU:C	2.44	0.42
1:Q:687:ILE:HD11	1:Q:695:SER:HB3	2.01	0.42
1:Q:750:GLN:OE1	1:Q:801:GLY:HA3	2.19	0.42
1:Q:833:GLU:CG	1:Q:839:ARG:HG3	2.48	0.42
2:G:31:ASP:C	2:G:33:LYS:H	2.28	0.42
2:G:358:ALA:HB2	3:R:1109:ILE:CD1	2.49	0.42
2:G:365:GLU:CG	2:G:366:PHE:N	2.83	0.42
2:G:389:THR:HG22	8:W:77:THR:O	2.20	0.42
3:R:5:LEU:HD23	3:R:630:PRO:HG2	2.00	0.42
3:R:24:VAL:HG21	3:R:426:LEU:HD12	2.01	0.42
3:R:57:LYS:O	3:R:103:VAL:HB	2.20	0.42
3:R:108:GLU:HB2	3:R:109:ALA:H	1.69	0.42
3:R:963:LEU:HD13	3:R:982:ARG:CZ	2.50	0.42
3:R:972:ASP:OD2	3:R:974:ARG:CD	2.68	0.42
5:T:179:LYS:HZ3	6:U:81:ASP:HB2	1.82	0.42
8:W:28:THR:O	8:W:30:TYR:N	2.52	0.42
8:W:35:VAL:C	8:W:37:SER:N	2.72	0.42
1:A:643:GLY:O	1:A:644:PHE:CB	2.67	0.42
1:A:674:ASN:CG	1:A:675:LEU:N	2.78	0.42
1:A:737:VAL:HA	1:A:740:ILE:HB	2.01	0.42
1:A:747:LEU:HD12	1:A:782:ILE:HG12	2.01	0.42
2:C:52:PHE:CA	2:C:55:ALA:HB3	2.46	0.42
2:C:65:ALA:CB	8:K:19:PHE:HE1	2.32	0.42
3:B:6:THR:CB	3:B:9:GLU:CB	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:253:PHE:HA	3:B:256:LEU:CD1	2.49	0.42
3:B:290:GLN:HE21	3:B:308:ARG:HH12	1.66	0.42
3:B:656:PRO:HG3	3:B:926:GLU:HG3	2.00	0.42
3:B:855:THR:O	3:B:858:GLY:N	2.53	0.42
3:B:915:LEU:O	3:B:916:PRO:C	2.62	0.42
3:B:978:LYS:C	3:B:979:ILE:O	2.62	0.42
3:B:1105:MET:HG3	3:B:1111:PRO:HG3	2.01	0.42
4:D:78:TRP:O	4:D:80:GLU:N	2.52	0.42
10:N:15:ALA:O	10:N:16:ASP:C	2.63	0.42
11:P:9:CYS:SG	11:P:10:TRP:N	2.93	0.42
1:Q:66:GLY:C	1:Q:68:CYS:H	2.27	0.42
1:Q:219:ILE:HA	3:R:1012:LEU:CD2	2.49	0.42
1:Q:246:ASN:OD1	1:Q:269:LEU:HD13	2.19	0.42
1:Q:268:LEU:O	1:Q:272:HIS:HD2	2.03	0.42
1:Q:457:PHE:HB2	3:R:737:SER:HB2	2.00	0.42
1:Q:599:ASP:O	1:Q:600:LYS:C	2.63	0.42
1:Q:782:ILE:HD12	1:Q:782:ILE:H	1.81	0.42
1:Q:787:ARG:O	1:Q:788:THR:C	2.62	0.42
1:Q:842:TYR:O	7:V:41:GLN:NE2	2.52	0.42
1:Q:859:TYR:CD1	2:G:64:ILE:HG23	2.53	0.42
3:R:123:LEU:N	3:R:123:LEU:HD12	2.35	0.42
3:R:484:ILE:H	3:R:484:ILE:HG13	1.29	0.42
3:R:771:ASP:CG	3:R:816:PRO:HB3	2.45	0.42
3:R:982:ARG:NH2	4:S:208:GLU:HG2	2.34	0.42
3:R:1012:LEU:CD1	3:R:1099:LEU:HD13	2.49	0.42
3:R:1069:TRP:HB2	3:R:1070:TYR:H	1.59	0.42
4:S:94:THR:O	4:S:144:ARG:HG3	2.20	0.42
4:S:108:MET:CG	4:S:110:TYR:CE1	3.02	0.42
4:S:129:PRO:CG	10:Y:15:ALA:HB1	2.49	0.42
5:T:82:GLN:CA	5:T:145:ARG:HG3	2.41	0.42
5:T:136:ILE:O	5:T:136:ILE:HG22	2.19	0.42
6:U:30:SER:HB2	6:U:34:LEU:CB	2.49	0.42
8:W:15:PHE:HD1	8:W:16:ASN:H	1.68	0.42
8:W:66:GLU:O	8:W:70:ARG:HG3	2.19	0.42
10:Y:22:ILE:CG1	10:Y:23:THR:N	2.82	0.42
1:A:7:LYS:HD3	3:B:1116:GLU:CD	2.45	0.42
1:A:215:PRO:HD2	1:A:276:TYR:OH	2.19	0.42
1:A:450:CYS:N	1:A:451:PRO:CD	2.83	0.42
1:A:490:ARG:CD	1:A:491:TYR:CE2	3.03	0.42
1:A:519:GLU:O	1:A:520:GLU:C	2.63	0.42
1:A:681:ASN:O	1:A:682:GLY:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:786:PHE:HD1	3:B:919:MET:HE2	1.84	0.42
3:B:369:LEU:C	3:B:371:LYS:N	2.77	0.42
3:B:405:GLY:C	3:B:407:ARG:N	2.76	0.42
3:B:582:VAL:HG13	3:B:586:ASN:O	2.20	0.42
3:B:719:GLY:N	3:B:989:TYR:OH	2.52	0.42
3:B:1105:MET:HG2	3:B:1111:PRO:CD	2.50	0.42
4:D:51:SER:HB2	4:D:52:PRO:CD	2.47	0.42
4:D:110:TYR:HA	4:D:128:ILE:O	2.19	0.42
4:D:111:SER:O	4:D:114:ILE:CG1	2.67	0.42
4:D:258:LYS:O	4:D:259:LYS:C	2.62	0.42
5:E:35:GLN:HE21	5:E:47:ALA:HA	1.84	0.42
7:H:15:TYR:HD2	7:H:16:LEU:HD11	1.84	0.42
7:H:45:ILE:HB	7:H:79:ARG:CD	2.49	0.42
7:H:47:ALA:HB2	7:H:81:VAL:CG1	2.50	0.42
9:L:70:LEU:N	9:L:70:LEU:HD12	2.35	0.42
11:P:11:LYS:O	11:P:12:THR:HG23	2.20	0.42
1:Q:46:ASP:O	1:Q:46:ASP:OD1	2.37	0.42
1:Q:473:ILE:HD12	1:Q:473:ILE:C	2.44	0.42
1:Q:672:VAL:O	1:Q:675:LEU:N	2.53	0.42
1:Q:742:GLN:HB2	3:R:919:MET:CE	2.39	0.42
1:Q:872:PHE:HA	1:Q:876:VAL:CB	2.48	0.42
2:G:55:ALA:C	2:G:57:LYS:H	2.28	0.42
2:G:133:ASP:O	2:G:135:ASP:N	2.52	0.42
3:R:125:SER:O	3:R:126:ALA:C	2.62	0.42
3:R:279:GLY:H	3:R:285:ARG:HH22	1.66	0.42
3:R:574:ARG:O	3:R:574:ARG:HG3	2.19	0.42
3:R:779:GLY:C	3:R:780:VAL:CG2	2.92	0.42
3:R:797:VAL:HG22	3:R:811:ILE:HG12	2.00	0.42
3:R:814:VAL:HA	3:R:833:ARG:O	2.19	0.42
3:R:963:LEU:HD22	3:R:982:ARG:NH2	2.35	0.42
4:S:18:GLU:HG3	4:S:225:LYS:CG	2.50	0.42
4:S:58:LEU:O	4:S:59:ALA:C	2.63	0.42
4:S:79:PRO:HG2	4:S:149:TYR:CE1	2.54	0.42
4:S:244:GLU:O	4:S:245:ALA:C	2.61	0.42
7:V:45:ILE:O	7:V:81:VAL:CA	2.63	0.42
9:X:69:LEU:O	9:X:72:ALA:HB3	2.20	0.42
10:Y:43:TYR:C	10:Y:46:ARG:H	2.28	0.42
1:A:27:ILE:CG2	1:A:75:ILE:HD11	2.50	0.42
1:A:203:ARG:HD3	1:A:203:ARG:N	2.34	0.42
1:A:480:MET:O	1:A:481:LEU:C	2.58	0.42
1:A:539:ILE:HB	1:A:545:TYR:CB	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:550:GLN:O	1:A:551:VAL:C	2.62	0.42
1:A:563:HIS:CE1	1:A:876:VAL:HG13	2.55	0.42
1:A:786:PHE:CE2	1:A:790:LEU:HD21	2.55	0.42
1:A:831:ARG:NH2	2:C:385:MET:SD	2.92	0.42
1:A:856:PHE:HD1	1:A:858:MET:HB2	1.81	0.42
2:C:118:SER:O	2:C:119:THR:CB	2.68	0.42
3:B:282:ARG:HD3	3:B:285:ARG:HD3	2.01	0.42
3:B:633:LEU:C	3:B:635:PRO:CD	2.93	0.42
3:B:792:LEU:HD21	3:B:809:VAL:O	2.20	0.42
3:B:976:GLY:HA3	4:D:26:ASN:CG	2.45	0.42
3:B:1064:CYS:SG	3:B:1081:ILE:HD12	2.59	0.42
3:B:1101:ILE:HG23	3:B:1111:PRO:HB2	2.02	0.42
4:D:61:ARG:HH21	10:N:2:LEU:HD13	1.85	0.42
4:D:111:SER:OG	4:D:125:SER:O	2.37	0.42
4:D:251:ARG:HG3	4:D:251:ARG:NH1	2.35	0.42
5:E:53:THR:OG1	5:E:71:GLU:HB2	2.19	0.42
1:Q:329:ASP:HA	1:Q:330:PRO:HD3	1.80	0.42
1:Q:388:LEU:O	1:Q:389:ARG:C	2.63	0.42
1:Q:486:ILE:HA	1:Q:496:ILE:HD12	2.02	0.42
1:Q:759:ARG:N	1:Q:779:ARG:NH2	2.68	0.42
2:G:63:LEU:HD21	8:W:23:TRP:CH2	2.55	0.42
2:G:145:GLU:O	2:G:146:TYR:O	2.38	0.42
3:R:21:LYS:HD3	3:R:25:ARG:NE	2.35	0.42
3:R:110:GLU:HA	3:R:111:PRO:C	2.41	0.42
3:R:219:GLY:C	3:R:220:LYS:HG3	2.45	0.42
3:R:254:PRO:HG2	3:R:255:SER:H	1.84	0.42
3:R:644:SER:N	3:R:645:PRO:CD	2.82	0.42
3:R:838:VAL:CG1	3:R:839:THR:H	2.30	0.42
3:R:1011:ILE:H	3:R:1011:ILE:CD1	2.13	0.42
3:R:1061:CYS:N	3:R:1065:GLY:HA2	2.35	0.42
3:R:1064:CYS:O	3:R:1066:TYR:N	2.53	0.42
4:S:13:ILE:CD1	4:S:239:GLU:N	2.82	0.42
4:S:21:PRO:HG3	9:X:79:MET:HE1	2.00	0.42
4:S:98:ILE:CD1	4:S:114:ILE:HG12	2.49	0.42
4:S:124:ILE:O	4:S:125:SER:CB	2.66	0.42
4:S:239:GLU:CD	4:S:240:ARG:N	2.78	0.42
5:T:67:TYR:N	5:T:67:TYR:CD1	2.88	0.42
5:T:90:LEU:CD1	5:T:100:ASN:HB2	2.49	0.42
5:T:115:ASP:O	5:T:116:ASP:HB2	2.18	0.42
7:V:75:VAL:HG13	8:W:15:PHE:HE2	1.85	0.42
9:X:46:PRO:CD	9:X:52:LYS:O	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:364:PHE:CD1	1:A:409:ARG:HD2	2.55	0.42
1:A:563:HIS:ND1	1:A:876:VAL:HG13	2.35	0.42
1:A:856:PHE:HB3	1:A:859:TYR:HD1	1.84	0.42
3:B:92:TYR:O	3:B:92:TYR:HD2	2.03	0.42
3:B:882:HIS:HE1	3:B:926:GLU:OE1	2.03	0.42
3:B:978:LYS:CE	4:D:205:LEU:HD13	2.50	0.42
3:B:1059:TYR:HA	3:B:1089:PHE:O	2.20	0.42
4:D:11:THR:HA	4:D:238:PRO:HD3	2.02	0.42
5:E:149:VAL:HG21	5:E:160:ILE:HG13	2.00	0.42
8:K:36:ILE:HG13	8:K:36:ILE:H	1.60	0.42
8:K:70:ARG:O	8:K:72:GLY:N	2.52	0.42
8:K:82:LEU:CD1	8:K:84:ASN:HB2	2.49	0.42
1:Q:195:LEU:N	1:Q:195:LEU:HD12	2.35	0.42
1:Q:237:HIS:O	1:Q:240:VAL:HB	2.19	0.42
1:Q:290:ARG:C	1:Q:292:GLY:H	2.28	0.42
1:Q:320:PHE:HA	3:R:1005:ALA:HA	2.02	0.42
1:Q:506:ALA:HB1	1:Q:598:PHE:C	2.45	0.42
1:Q:611:ILE:O	1:Q:615:LEU:HG	2.20	0.42
1:Q:672:VAL:O	1:Q:674:ASN:N	2.53	0.42
1:Q:687:ILE:HD11	1:Q:695:SER:CB	2.50	0.42
2:G:292:ILE:HB	7:V:16:LEU:HD22	2.02	0.42
2:G:310:ILE:N	2:G:310:ILE:CD1	2.70	0.42
2:G:322:ARG:HH21	7:V:43:PRO:HG3	1.85	0.42
2:G:390:MET:HE3	2:G:390:MET:H	1.85	0.42
3:R:28:LEU:HG	3:R:122:MET:HE3	2.00	0.42
3:R:98:LEU:HD13	3:R:98:LEU:O	2.19	0.42
3:R:123:LEU:N	3:R:123:LEU:CD1	2.83	0.42
3:R:661:ASN:OD1	3:R:882:HIS:HB3	2.20	0.42
3:R:922:GLY:CA	3:R:925:MET:HB2	2.39	0.42
3:R:1091:VAL:O	3:R:1091:VAL:HG13	2.19	0.42
4:S:66:PRO:O	4:S:123:PRO:HA	2.20	0.42
4:S:116:SER:O	4:S:118:ASP:N	2.53	0.42
4:S:124:ILE:O	4:S:124:ILE:HG13	2.18	0.42
4:S:251:ARG:HG3	4:S:251:ARG:NH1	2.35	0.42
4:S:256:LEU:O	4:S:257:GLU:C	2.62	0.42
5:T:1:MET:HG3	5:T:80:VAL:HG21	2.02	0.42
5:T:92:VAL:HG11	5:T:127:ILE:HG12	2.01	0.42
11:Z:25:ARG:HD2	11:Z:30:GLY:HA2	2.02	0.42
1:A:47:PRO:CG	1:A:48:ARG:H	2.31	0.42
1:A:59:PRO:HG2	1:A:61:CYS:SG	2.60	0.42
1:A:343:ILE:HD11	3:B:1001:LEU:CD1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:556:LEU:HA	1:A:557:PRO:HD3	1.86	0.42
1:A:562:PHE:CD2	1:A:611:ILE:HG12	2.55	0.42
1:A:826:ALA:CB	2:C:335:THR:HG23	2.33	0.42
2:C:15:GLU:O	2:C:16:LYS:C	2.62	0.42
2:C:21:SER:O	2:C:33:LYS:HE3	2.20	0.42
2:C:67:GLY:O	2:C:385:MET:HE2	2.20	0.42
2:C:102:LEU:CD2	2:C:103:GLY:N	2.67	0.42
2:C:146:TYR:N	2:C:146:TYR:CD1	2.72	0.42
2:C:340:SER:HB3	2:C:371:GLU:CD	2.43	0.42
2:C:386:VAL:HG11	8:K:34:ARG:HB2	2.01	0.42
3:B:228:ARG:C	3:B:230:LEU:N	2.76	0.42
3:B:338:TYR:CE2	3:B:341:LYS:NZ	2.88	0.42
3:B:407:ARG:HE	3:B:407:ARG:N	2.18	0.42
3:B:694:LEU:HD13	3:B:695:LEU:C	2.44	0.42
3:B:725:ALA:CB	3:B:985:PHE:CE1	3.03	0.42
3:B:838:VAL:CG1	3:B:839:THR:N	2.83	0.42
3:B:935:LEU:CD2	10:N:43:TYR:HB3	2.49	0.42
5:E:30:LEU:HD11	5:E:72:PHE:CE2	2.54	0.42
7:H:17:VAL:O	7:H:17:VAL:HG13	2.20	0.42
7:H:45:ILE:HG22	7:H:81:VAL:N	2.35	0.42
10:N:17:LYS:O	10:N:18:TRP:C	2.63	0.42
10:N:20:SER:CA	10:N:23:THR:HB	2.50	0.42
1:Q:9:ILE:HD12	2:G:342:LEU:HD11	2.02	0.42
1:Q:428:ILE:CG2	1:Q:428:ILE:O	2.68	0.42
1:Q:481:LEU:HD23	1:Q:482:VAL:N	2.30	0.42
1:Q:530:VAL:O	1:Q:532:ILE:N	2.52	0.42
1:Q:658:LYS:O	1:Q:662:TYR:HB2	2.20	0.42
1:Q:841:LEU:CD2	2:G:367:LYS:HB2	2.49	0.42
2:G:322:ARG:N	2:G:322:ARG:CD	2.78	0.42
3:R:46:GLN:O	3:R:47:GLY:C	2.63	0.42
3:R:170:ASN:O	3:R:171:ARG:C	2.62	0.42
3:R:338:TYR:CE2	3:R:341:LYS:NZ	2.88	0.42
3:R:472:LEU:HD12	3:R:646:ALA:HA	2.02	0.42
3:R:533:GLY:O	3:R:536:LEU:N	2.52	0.42
3:R:570:CYS:O	3:R:571:ASP:O	2.38	0.42
3:R:595:GLU:CA	3:R:599:SER:HB3	2.47	0.42
3:R:694:LEU:HD13	3:R:695:LEU:C	2.45	0.42
3:R:702:LEU:HD22	10:Y:47:ARG:NH1	2.35	0.42
3:R:702:LEU:HD12	10:Y:51:SER:HB3	2.02	0.42
4:S:67:PHE:CD2	4:S:121:VAL:HG12	2.47	0.42
4:S:85:CYS:O	4:S:89:CYS:SG	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:88:GLU:H	5:T:99:VAL:HG12	1.85	0.42
7:V:81:VAL:O	7:V:82:ILE:CG1	2.68	0.42
10:Y:20:SER:H	10:Y:22:ILE:CD1	2.32	0.42
1:A:354:THR:C	1:A:355:PRO:O	2.63	0.41
1:A:363:GLN:HA	1:A:366:ILE:CG2	2.50	0.41
1:A:558:LYS:HG3	3:R:104:GLU:CB	2.39	0.41
1:A:701:LEU:O	1:A:702:ASP:C	2.62	0.41
2:C:250:ILE:CG2	2:C:251:ILE:H	2.30	0.41
2:C:301:LEU:O	2:C:302:ALA:C	2.63	0.41
2:C:379:ILE:CD1	3:B:1042:ALA:HA	2.45	0.41
3:B:39:LEU:HD11	3:B:354:PHE:CZ	2.55	0.41
3:B:183:ILE:O	3:B:184:THR:O	2.38	0.41
3:B:353:LEU:HA	3:B:404:VAL:CG1	2.46	0.41
3:B:517:TRP:CD1	3:B:531:GLN:N	2.81	0.41
3:B:533:GLY:O	3:B:536:LEU:N	2.49	0.41
3:B:582:VAL:CG1	3:B:586:ASN:N	2.75	0.41
3:B:626:VAL:HA	3:B:639:HIS:O	2.20	0.41
3:B:972:ASP:O	3:B:973:GLY:C	2.63	0.41
3:B:988:VAL:CG1	3:B:989:TYR:N	2.80	0.41
4:D:64:LEU:HB3	10:N:6:ARG:HD2	2.01	0.41
8:K:15:PHE:HD1	8:K:16:ASN:OD1	2.03	0.41
1:Q:275:THR:HA	1:Q:278:ASP:O	2.20	0.41
1:Q:286:PRO:O	1:Q:287:SER:CB	2.66	0.41
1:Q:298:LEU:O	1:Q:301:ARG:N	2.52	0.41
1:Q:334:ILE:CG2	1:Q:482:VAL:CG1	2.97	0.41
1:Q:363:GLN:HA	1:Q:366:ILE:CG2	2.50	0.41
1:Q:440:GLY:HA3	1:Q:444:ARG:NH2	2.34	0.41
1:Q:508:LEU:O	1:Q:638:PHE:CE2	2.73	0.41
1:Q:667:ARG:HG2	1:Q:667:ARG:NH1	2.34	0.41
1:Q:712:GLY:C	1:Q:714:ILE:H	2.28	0.41
2:G:117:PRO:HD3	2:G:276:ASN:HD21	1.85	0.41
2:G:129:GLU:O	2:G:131:LYS:N	2.53	0.41
3:R:64:ARG:NH1	3:R:64:ARG:CG	2.81	0.41
3:R:84:GLU:C	3:R:86:ARG:N	2.76	0.41
3:R:337:HIS:CD2	3:R:339:ALA:HB3	2.55	0.41
3:R:453:MET:CG	3:R:468:LYS:HD2	2.39	0.41
3:R:691:ARG:CZ	3:R:756:ARG:HH21	2.33	0.41
3:R:1012:LEU:O	3:R:1095:TYR:CE2	2.68	0.41
3:R:1098:LYS:C	3:R:1098:LYS:HD3	2.44	0.41
5:T:27:LEU:HB2	5:T:51:VAL:HG21	2.02	0.41
5:T:30:LEU:HD11	5:T:72:PHE:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:149:VAL:HG22	5:T:160:ILE:HA	2.01	0.41
8:W:49:ALA:O	8:W:50:LEU:O	2.38	0.41
8:W:53:ILE:O	8:W:54:ASN:HB2	2.20	0.41
9:X:51:ASP:C	9:X:52:LYS:HG3	2.44	0.41
10:Y:16:ASP:OD2	10:Y:17:LYS:HG3	2.19	0.41
1:A:51:VAL:HG23	1:A:58:CYS:HB3	2.01	0.41
1:A:334:ILE:CG2	1:A:482:VAL:HG11	2.47	0.41
1:A:428:ILE:HG21	1:A:495:ILE:HD13	2.01	0.41
1:A:487:ILE:HD13	1:A:858:MET:HE2	2.02	0.41
1:A:548:GLY:C	1:A:550:GLN:H	2.25	0.41
1:A:558:LYS:NZ	3:R:108:GLU:HG2	2.34	0.41
1:A:668:ALA:CB	1:A:707:LEU:HD13	2.49	0.41
1:A:827:LEU:CD1	2:C:315:LEU:HD13	2.44	0.41
2:C:390:MET:HE3	5:E:58:ILE:C	2.44	0.41
3:B:53:ILE:HB	3:B:54:PRO:CD	2.50	0.41
3:B:81:SER:O	3:B:82:PRO:C	2.59	0.41
3:B:83:MET:O	3:B:87:LEU:HD12	2.20	0.41
3:B:234:THR:HB	3:B:237:ASP:OD2	2.20	0.41
3:B:247:GLU:N	3:B:249:GLN:HG2	2.35	0.41
3:B:759:SER:CB	3:B:862:VAL:O	2.57	0.41
3:B:1069:TRP:NE1	3:B:1088:LEU:CB	2.79	0.41
4:D:90:GLU:C	4:D:92:CYS:N	2.63	0.41
4:D:253:ILE:HG23	4:D:254:GLU:N	2.34	0.41
5:E:15:PRO:O	5:E:16:ASN:C	2.62	0.41
6:F:72:LEU:C	6:F:74:SER:N	2.74	0.41
8:K:39:ARG:NE	8:K:68:GLU:OE1	2.53	0.41
8:K:78:ILE:CD1	8:K:92:LEU:HD12	2.50	0.41
9:L:25:GLY:O	9:L:43:TYR:CG	2.74	0.41
9:L:69:LEU:CD2	9:L:73:ILE:HG12	2.50	0.41
11:P:13:PHE:N	11:P:13:PHE:CD1	2.88	0.41
1:Q:357:ASN:HD22	1:Q:361:LEU:HD22	1.85	0.41
1:Q:512:LYS:HE3	1:Q:583:ASP:HA	2.02	0.41
1:Q:667:ARG:C	1:Q:670:VAL:HG22	2.43	0.41
2:G:40:GLU:O	2:G:45:ARG:CG	2.64	0.41
2:G:390:MET:HE1	5:T:58:ILE:O	2.19	0.41
3:R:31:TYR:O	3:R:34:PHE:HB3	2.20	0.41
3:R:48:GLU:O	3:R:49:ILE:C	2.62	0.41
3:R:228:ARG:NH1	3:R:262:ILE:O	2.52	0.41
3:R:354:PHE:C	3:R:354:PHE:CD1	2.98	0.41
3:R:490:TYR:CE1	3:R:527:ILE:CG2	2.99	0.41
3:R:557:HIS:N	3:R:623:ASN:ND2	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:633:LEU:C	3:R:635:PRO:CD	2.93	0.41
3:R:840:ARG:HB2	3:R:843:GLU:CD	2.46	0.41
3:R:992:LYS:CE	3:R:996:MET:SD	3.08	0.41
4:S:18:GLU:HA	4:S:225:LYS:HG2	2.01	0.41
4:S:253:ILE:CG2	4:S:254:GLU:N	2.83	0.41
6:U:46:LYS:HD2	6:U:74:SER:O	2.20	0.41
1:A:550:GLN:O	1:A:553:SER:HB3	2.21	0.41
1:A:715:ALA:C	1:A:717:LYS:H	2.27	0.41
2:C:391:ARG:HH11	2:C:391:ARG:CG	2.14	0.41
3:B:14:ILE:HG12	3:B:18:PHE:CE2	2.55	0.41
3:B:82:PRO:CG	3:B:143:GLU:OE1	2.67	0.41
3:B:165:GLU:OE2	3:B:338:TYR:OH	2.34	0.41
3:B:227:MET:CE	3:B:312:ALA:O	2.68	0.41
3:B:338:TYR:OH	3:B:468:LYS:HE3	2.20	0.41
3:B:477:ALA:HB2	3:B:576:ARG:NE	2.34	0.41
3:B:902:LYS:CB	10:N:42:ARG:NH1	2.79	0.41
3:B:933:ALA:CB	10:N:47:ARG:HH12	2.22	0.41
4:D:107:ARG:O	4:D:133:LEU:N	2.48	0.41
5:E:51:VAL:O	5:E:53:THR:N	2.48	0.41
5:E:92:VAL:HG11	5:E:127:ILE:HG12	2.01	0.41
5:E:104:MET:HE2	5:E:104:MET:HB3	1.89	0.41
5:E:112:GLN:HE21	5:E:112:GLN:HB3	1.67	0.41
7:H:32:LEU:HD22	7:H:39:PRO:HD3	2.02	0.41
8:K:43:LEU:C	8:K:45:MET:N	2.78	0.41
9:L:66:LYS:H	9:L:66:LYS:HG3	1.60	0.41
10:N:7:CYS:SG	10:N:45:CYS:SG	3.18	0.41
1:Q:7:LYS:C	3:R:1114:VAL:HG22	2.46	0.41
1:Q:284:LEU:O	1:Q:285:PRO:C	2.62	0.41
1:Q:432:ALA:HB3	1:Q:480:MET:O	2.20	0.41
1:Q:530:VAL:O	1:Q:531:LYS:C	2.63	0.41
1:Q:727:VAL:C	1:Q:729:ALA:N	2.78	0.41
2:G:125:TYR:HA	2:G:250:ILE:HG23	2.02	0.41
3:R:97:TRP:CZ3	3:R:113:GLU:HB3	2.55	0.41
3:R:119:LEU:HD11	3:R:350:PHE:HE2	1.85	0.41
3:R:125:SER:O	3:R:128:ASP:N	2.53	0.41
3:R:139:ILE:HD12	10:Y:61:HIS:NE2	2.35	0.41
3:R:234:THR:HG21	3:R:236:ARG:HB2	2.02	0.41
3:R:321:LYS:HA	3:R:324:GLU:HB3	2.01	0.41
3:R:321:LYS:HE3	3:R:321:LYS:HB3	1.79	0.41
3:R:373:LYS:HG3	3:R:375:ARG:CB	2.47	0.41
3:R:756:ARG:CG	3:R:757:LEU:N	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:810:LEU:HD13	3:R:864:VAL:HG11	2.02	0.41
3:R:1073:ASN:C	3:R:1075:ASN:H	2.27	0.41
4:S:11:THR:HA	4:S:238:PRO:HD3	2.02	0.41
4:S:78:TRP:N	4:S:78:TRP:HD1	2.16	0.41
4:S:111:SER:OG	4:S:125:SER:O	2.37	0.41
11:Z:22:PRO:HG2	11:Z:23:GLY:N	2.34	0.41
1:A:63:ASN:ND2	3:B:1071:ASP:CG	2.79	0.41
1:A:71:HIS:ND1	3:B:1070:TYR:CE2	2.89	0.41
1:A:308:ARG:O	1:A:308:ARG:HG2	2.20	0.41
1:A:363:GLN:O	1:A:367:ASN:OD1	2.39	0.41
1:A:589:LYS:O	1:A:592:ILE:HG13	2.19	0.41
1:A:589:LYS:O	1:A:592:ILE:CG1	2.68	0.41
2:C:86:THR:O	2:C:104:LEU:CD1	2.68	0.41
2:C:284:PHE:CD1	2:C:284:PHE:N	2.87	0.41
3:B:97:TRP:CZ3	3:B:113:GLU:CD	2.98	0.41
3:B:183:ILE:CG1	3:B:206:LYS:HB3	2.49	0.41
3:B:203:GLU:C	3:B:204:ARG:HG3	2.45	0.41
3:B:790:ARG:HG3	3:B:791:LEU:N	2.36	0.41
3:B:1046:LYS:HG2	3:B:1050:LEU:HD21	2.02	0.41
4:D:64:LEU:HB3	10:N:5:ILE:HG13	2.02	0.41
4:D:260:LEU:CD2	4:D:264:VAL:HG21	2.51	0.41
1:Q:418:LEU:HD23	1:Q:430:MET:HE1	2.01	0.41
1:Q:424:SER:HB3	3:R:1032:GLU:OE2	2.20	0.41
1:Q:607:GLN:N	1:Q:608:PRO:HD2	2.35	0.41
2:G:49:ASP:O	2:G:50:LYS:C	2.64	0.41
2:G:108:ILE:O	2:G:109:GLU:C	2.62	0.41
2:G:286:ILE:HG13	7:V:49:ASP:OD2	2.19	0.41
3:R:21:LYS:CA	3:R:25:ARG:NH1	2.82	0.41
3:R:83:MET:O	3:R:87:LEU:HD12	2.20	0.41
3:R:87:LEU:HD22	3:R:851:LEU:HD11	2.02	0.41
3:R:119:LEU:HD11	3:R:350:PHE:CE2	2.55	0.41
3:R:130:ILE:O	3:R:131:SER:C	2.64	0.41
3:R:269:LEU:HD13	3:R:286:ILE:HG23	2.02	0.41
3:R:429:VAL:HG11	3:R:453:MET:HE1	2.03	0.41
3:R:536:LEU:O	3:R:536:LEU:HD22	2.20	0.41
3:R:558:ILE:HG21	3:R:563:ILE:HG21	2.02	0.41
3:R:648:LEU:HD22	3:R:652:ALA:HB1	2.02	0.41
3:R:668:TYR:O	3:R:671:ALA:HB3	2.20	0.41
3:R:703:VAL:HG21	3:R:930:GLY:N	2.35	0.41
3:R:943:THR:C	3:R:945:PHE:H	2.28	0.41
4:S:165:ARG:HH11	4:S:165:ARG:HG2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:187:VAL:HG21	4:S:203:CYS:HB2	2.00	0.41
4:S:252:LYS:O	4:S:256:LEU:N	2.47	0.41
5:T:114:THR:HG22	5:T:115:ASP:N	2.36	0.41
1:A:301:ARG:NH1	1:A:308:ARG:HH12	2.18	0.41
1:A:364:PHE:HA	1:A:373:PRO:O	2.21	0.41
1:A:375:ALA:HB2	1:A:409:ARG:HA	2.02	0.41
1:A:386:ILE:C	1:A:387:ASP:O	2.61	0.41
1:A:485:ASN:ND2	3:B:1039:PHE:CE2	2.88	0.41
1:A:532:ILE:HG23	9:L:40:PHE:CD1	2.55	0.41
1:A:555:PHE:CD2	1:A:631:LEU:HD13	2.56	0.41
1:A:741:THR:C	1:A:743:MET:N	2.79	0.41
1:A:795:LEU:HD23	1:A:795:LEU:C	2.44	0.41
2:C:16:LYS:NZ	3:R:75:ARG:NH1	2.64	0.41
2:C:21:SER:O	2:C:33:LYS:CE	2.69	0.41
2:C:297:ILE:C	2:C:299:LYS:N	2.72	0.41
2:C:299:LYS:O	2:C:302:ALA:HB3	2.21	0.41
2:C:309:ASP:OD2	2:C:310:ILE:N	2.53	0.41
2:C:322:ARG:O	2:C:323:THR:C	2.63	0.41
2:C:391:ARG:O	2:C:391:ARG:HG2	2.20	0.41
3:B:50:PRO:CG	3:B:51:THR:N	2.84	0.41
3:B:83:MET:HG2	3:B:86:ARG:NH2	2.35	0.41
3:B:122:MET:HE3	3:B:150:GLY:HA2	2.02	0.41
3:B:211:HIS:HD1	3:B:222:PRO:HG3	1.86	0.41
3:B:228:ARG:O	3:B:229:ALA:C	2.64	0.41
3:B:232:ILE:HG23	3:B:237:ASP:HB3	2.03	0.41
3:B:256:LEU:C	3:B:258:GLN:N	2.74	0.41
3:B:369:LEU:HD21	3:B:379:LEU:CD2	2.49	0.41
3:B:668:TYR:O	3:B:671:ALA:HB3	2.20	0.41
3:B:840:ARG:NH1	3:B:1021:ALA:HB2	2.35	0.41
3:B:855:THR:O	3:B:856:ALA:C	2.63	0.41
3:B:875:GLY:HA2	3:B:887:VAL:HG11	2.03	0.41
3:B:1089:PHE:HA	3:B:1090:PRO:HD3	1.80	0.41
4:D:18:GLU:CG	4:D:225:LYS:HG2	2.50	0.41
6:F:13:PRO:HG2	6:F:16:VAL:HG23	2.02	0.41
6:F:71:ILE:O	6:F:71:ILE:HG22	2.20	0.41
10:N:5:ILE:O	10:N:6:ARG:HB2	2.18	0.41
1:Q:426:HIS:O	1:Q:429:SER:HB2	2.19	0.41
1:Q:444:ARG:N	1:Q:444:ARG:HD3	2.36	0.41
1:Q:512:LYS:N	1:Q:583:ASP:OD2	2.54	0.41
1:Q:708:ARG:HG3	1:Q:709:SER:H	1.84	0.41
1:Q:747:LEU:HD12	1:Q:790:LEU:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:823:LEU:HD12	1:Q:824:ILE:H	1.84	0.41
1:Q:841:LEU:C	1:Q:843:GLY:N	2.78	0.41
2:G:117:PRO:CD	2:G:276:ASN:OD1	2.69	0.41
3:R:154:VAL:O	3:R:155:ASN:C	2.62	0.41
3:R:227:MET:HE3	3:R:312:ALA:O	2.21	0.41
3:R:244:LEU:CD1	3:R:500:VAL:HB	2.50	0.41
3:R:358:PHE:O	3:R:360:ALA:N	2.53	0.41
3:R:498:GLU:C	3:R:500:VAL:N	2.77	0.41
3:R:617:ASP:OD2	3:R:617:ASP:C	2.63	0.41
3:R:696:HIS:NE2	3:R:752:SER:O	2.53	0.41
3:R:1079:CYS:C	3:R:1081:ILE:N	2.76	0.41
3:R:1085:LYS:C	3:R:1087:ASN:N	2.78	0.41
4:S:18:GLU:OE1	4:S:225:LYS:HD2	2.21	0.41
4:S:61:ARG:HH11	4:S:61:ARG:HG2	1.86	0.41
4:S:253:ILE:HG23	4:S:254:GLU:N	2.35	0.41
5:T:152:THR:O	5:T:153:VAL:C	2.62	0.41
6:U:13:PRO:HG2	6:U:16:VAL:HG23	2.02	0.41
6:U:54:LYS:HB2	6:U:54:LYS:HZ2	1.85	0.41
8:W:21:SER:C	8:W:23:TRP:N	2.76	0.41
9:X:77:ARG:CZ	9:X:77:ARG:HB2	2.50	0.41
1:A:262:ILE:CD1	1:A:266:TRP:HE1	2.33	0.41
1:A:687:ILE:HD11	1:A:695:SER:HB3	2.02	0.41
1:A:759:ARG:HE	1:A:759:ARG:HB3	1.58	0.41
1:A:778:ALA:C	1:A:780:GLY:N	2.79	0.41
1:A:842:TYR:O	7:H:41:GLN:NE2	2.53	0.41
2:C:249:TYR:HD1	2:C:249:TYR:H	1.67	0.41
3:B:5:LEU:N	3:B:5:LEU:CD1	2.84	0.41
3:B:5:LEU:HD23	3:B:630:PRO:HG2	2.02	0.41
3:B:81:SER:HB3	3:B:84:GLU:CG	2.43	0.41
3:B:223:PHE:CD2	3:B:256:LEU:HD22	2.55	0.41
3:B:228:ARG:NH2	3:B:233:LEU:O	2.54	0.41
3:B:578:PRO:HB3	3:B:615:TYR:CE1	2.55	0.41
3:B:633:LEU:O	3:B:635:PRO:CD	2.68	0.41
3:B:707:ALA:HA	3:B:710:ILE:HD12	2.03	0.41
3:B:771:ASP:CG	3:B:816:PRO:HB3	2.46	0.41
4:D:129:PRO:HD2	10:N:16:ASP:N	2.36	0.41
8:K:54:ASN:ND2	8:K:58:SER:N	2.68	0.41
1:Q:25:THR:HG22	1:Q:26:ALA:N	2.36	0.41
1:Q:293:ARG:HA	1:Q:294:PRO:HD3	1.87	0.41
1:Q:313:LEU:HD12	1:Q:313:LEU:HA	1.86	0.41
1:Q:712:GLY:C	1:Q:714:ILE:N	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:373:ILE:O	3:R:1049:LEU:HD21	2.21	0.41
2:G:391:ARG:HH21	8:W:42:GLN:NE2	2.19	0.41
3:R:31:TYR:O	3:R:35:VAL:HG12	2.21	0.41
3:R:55:GLY:O	3:R:105:ASN:N	2.53	0.41
3:R:145:PRO:O	3:R:147:ASP:N	2.53	0.41
3:R:183:ILE:CG1	3:R:206:LYS:HB3	2.50	0.41
3:R:226:LEU:HD13	3:R:297:PHE:CE1	2.56	0.41
3:R:247:GLU:N	3:R:249:GLN:HG2	2.34	0.41
3:R:281:LYS:HB2	3:R:284:ASN:CG	2.46	0.41
3:R:291:GLN:O	3:R:295:LYS:HE2	2.20	0.41
3:R:958:LEU:HA	3:R:962:TYR:O	2.21	0.41
4:S:232:SER:C	4:S:234:GLY:H	2.27	0.41
5:T:23:ASN:O	5:T:26:ALA:N	2.53	0.41
6:U:79:THR:CG2	6:U:80:SER:N	2.82	0.41
10:Y:21:PHE:CE2	10:Y:49:LEU:HD13	2.56	0.41
1:A:216:PRO:O	1:A:219:ILE:HD11	2.20	0.41
1:A:647:ARG:HD2	3:B:965:ASP:CB	2.51	0.41
1:A:764:ARG:NH2	3:B:624:ALA:O	2.53	0.41
1:A:839:ARG:NH1	7:H:37:ILE:HG23	2.36	0.41
1:A:874:ARG:HD3	1:A:874:ARG:HA	1.73	0.41
3:B:6:THR:O	3:B:7:ILE:HD13	2.21	0.41
3:B:121:ILE:CG2	3:B:128:ASP:HB2	2.51	0.41
3:B:128:ASP:OD1	3:B:130:ILE:N	2.53	0.41
3:B:162:VAL:HG23	3:B:428:ARG:O	2.20	0.41
3:B:193:THR:OG1	3:B:197:ARG:O	2.39	0.41
3:B:536:LEU:O	3:B:536:LEU:HD22	2.20	0.41
3:B:603:THR:C	3:B:605:ASP:N	2.75	0.41
3:B:1036:LEU:HB3	3:B:1041:THR:HG23	2.02	0.41
3:B:1069:TRP:HH2	3:B:1072:LYS:HE3	1.85	0.41
4:D:176:CYS:N	4:D:195:LEU:CD2	2.83	0.41
5:E:127:ILE:HB	5:E:136:ILE:CG1	2.49	0.41
6:F:79:THR:CG2	6:F:80:SER:H	2.32	0.41
7:H:12:ARG:O	7:H:13:ILE:CB	2.69	0.41
8:K:25:ASN:O	8:K:26:ARG:O	2.38	0.41
1:Q:82:ILE:HD11	1:Q:90:ILE:CD1	2.51	0.41
1:Q:361:LEU:HD12	1:Q:361:LEU:HA	1.93	0.41
1:Q:447:LEU:HA	1:Q:450:CYS:SG	2.61	0.41
1:Q:551:VAL:O	1:Q:554:ALA:HB3	2.21	0.41
1:Q:601:LYS:HD3	1:Q:601:LYS:HA	1.89	0.41
1:Q:759:ARG:H	1:Q:779:ARG:NH2	2.19	0.41
1:Q:827:LEU:HD11	2:G:315:LEU:CD1	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:841:LEU:HD23	2:G:367:LYS:HB2	2.03	0.41
1:Q:853:ASP:OD2	2:G:311:ARG:NH1	2.54	0.41
2:G:63:LEU:HD11	8:W:25:ASN:HD22	1.85	0.41
2:G:64:ILE:O	2:G:65:ALA:HB2	2.20	0.41
3:R:250:ASN:C	3:R:252:LEU:N	2.78	0.41
3:R:253:PHE:HA	3:R:256:LEU:HD12	2.02	0.41
3:R:343:LEU:HB3	3:R:344:ARG:H	1.71	0.41
3:R:560:THR:CG2	3:R:561:ASP:H	2.32	0.41
3:R:578:PRO:HB3	3:R:615:TYR:CE1	2.56	0.41
3:R:603:THR:C	3:R:605:ASP:N	2.73	0.41
3:R:676:ALA:HB2	3:R:991:GLN:NE2	2.35	0.41
3:R:792:LEU:HD11	3:R:809:VAL:HG11	1.99	0.41
3:R:1017:THR:O	3:R:1024:GLY:HA3	2.20	0.41
3:R:1062:ASP:OD1	3:R:1062:ASP:N	2.54	0.41
4:S:22:LEU:HD13	4:S:226:TYR:CE1	2.55	0.41
4:S:27:ALA:HB1	9:X:23:THR:CG2	2.51	0.41
4:S:108:MET:SD	4:S:131:VAL:O	2.79	0.41
4:S:178:LYS:HA	4:S:181:ASN:ND2	2.35	0.41
5:T:31:ARG:C	5:T:33:GLN:N	2.64	0.41
6:U:48:ASP:O	6:U:52:ALA:N	2.37	0.41
11:Z:18:LEU:C	11:Z:20:VAL:N	2.75	0.41
1:A:258:PRO:CB	1:A:261:ILE:HD12	2.51	0.41
1:A:321:SER:O	1:A:322:SER:HB2	2.20	0.41
1:A:464:LEU:CD1	1:A:464:LEU:C	2.94	0.41
1:A:495:ILE:O	1:A:495:ILE:HG12	2.21	0.41
1:A:674:ASN:OD1	1:A:675:LEU:N	2.54	0.41
2:C:106:ARG:HH11	2:C:106:ARG:CG	2.33	0.41
2:C:131:LYS:HD3	2:C:248:GLU:CG	2.51	0.41
3:B:429:VAL:HG11	3:B:453:MET:HE1	2.03	0.41
3:B:526:LEU:C	3:B:526:LEU:CD2	2.94	0.41
3:B:758:TYR:HB3	3:B:837:ILE:HG21	2.02	0.41
4:D:39:MET:HG3	4:D:145:LEU:HD23	2.02	0.41
4:D:39:MET:O	4:D:67:PHE:HB2	2.21	0.41
4:D:67:PHE:CD2	4:D:121:VAL:HG12	2.46	0.41
4:D:154:ALA:C	4:D:156:PHE:H	2.28	0.41
4:D:252:LYS:O	4:D:253:ILE:C	2.64	0.41
5:E:22:LEU:O	5:E:23:ASN:C	2.64	0.41
10:N:14:ILE:O	10:N:15:ALA:C	2.63	0.41
10:N:42:ARG:CG	10:N:43:TYR:N	2.76	0.41
1:Q:285:PRO:HA	1:Q:286:PRO:HD3	1.80	0.41
1:Q:315:GLY:HA2	3:R:1029:GLY:HA2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:482:VAL:O	1:Q:484:LYS:N	2.53	0.41
1:Q:495:ILE:HG23	1:Q:496:ILE:HG13	2.02	0.41
1:Q:507:TYR:O	1:Q:507:TYR:CD2	2.74	0.41
1:Q:649:GLU:HG3	3:R:965:ASP:OD2	2.20	0.41
1:Q:875:VAL:O	1:Q:876:VAL:C	2.63	0.41
2:G:18:LYS:HB2	2:G:19:GLN:H	1.67	0.41
2:G:117:PRO:O	2:G:120:PRO:HG3	2.20	0.41
2:G:267:VAL:O	2:G:267:VAL:HG12	2.21	0.41
3:R:59:ARG:CZ	3:R:107:ILE:HD12	2.51	0.41
3:R:92:TYR:O	3:R:92:TYR:CD2	2.73	0.41
3:R:119:LEU:HD12	3:R:120:PRO:N	2.35	0.41
3:R:899:TYR:CE2	4:S:29:ARG:CZ	3.03	0.41
4:S:35:TYR:O	4:S:37:PRO:HD3	2.21	0.41
4:S:48:GLU:N	4:S:140:SER:HB3	2.35	0.41
5:T:36:GLU:HG2	6:U:34:LEU:HG	2.03	0.41
7:V:45:ILE:HB	7:V:79:ARG:CD	2.50	0.41
8:W:51:ILE:HG22	8:W:51:ILE:O	2.19	0.41
10:Y:8:PHE:CD2	10:Y:8:PHE:N	2.87	0.41
10:Y:42:ARG:CG	10:Y:43:TYR:N	2.76	0.41
11:Z:11:LYS:O	11:Z:12:THR:HG23	2.21	0.41
1:A:8:GLY:H	2:C:366:PHE:HE1	1.68	0.41
1:A:92:GLU:O	1:A:95:LYS:HB2	2.21	0.41
1:A:199:PRO:O	1:A:200:THR:OG1	2.21	0.41
1:A:380:ARG:HB3	1:A:381:PRO:HD2	2.03	0.41
1:A:490:ARG:HD2	1:A:491:TYR:CE2	2.56	0.41
1:A:615:LEU:O	1:A:619:TYR:HD1	2.03	0.41
1:A:651:VAL:CG2	1:A:743:MET:HB3	2.51	0.41
1:A:667:ARG:C	1:A:670:VAL:HG22	2.46	0.41
1:A:678:LYS:HD2	1:A:684:LEU:HG	2.02	0.41
1:A:765:THR:C	1:A:766:LEU:HD22	2.44	0.41
1:A:826:ALA:HB1	2:C:334:VAL:CG1	2.45	0.41
1:A:832:ALA:CB	2:C:66:PRO:HB2	2.51	0.41
2:C:135:ASP:O	2:C:137:ALA:N	2.53	0.41
2:C:270:ALA:HA	7:H:14:HIS:CE1	2.52	0.41
2:C:288:ALA:HA	7:H:16:LEU:O	2.21	0.41
2:C:375:ILE:HG23	2:C:377:HIS:H	1.86	0.41
3:B:19:LYS:HD3	3:B:603:THR:CG2	2.51	0.41
3:B:34:PHE:HA	3:B:38:LYS:HB3	2.02	0.41
3:B:145:PRO:O	3:B:147:ASP:N	2.54	0.41
3:B:178:LYS:O	3:B:179:THR:C	2.63	0.41
3:B:234:THR:CG2	3:B:236:ARG:HB2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:278:ILE:HG22	3:B:279:GLY:H	1.82	0.41
3:B:354:PHE:C	3:B:354:PHE:CD1	2.99	0.41
3:B:472:LEU:O	3:B:473:MET:O	2.39	0.41
3:B:633:LEU:O	3:B:634:THR:C	2.64	0.41
3:B:669:GLN:C	3:B:671:ALA:N	2.79	0.41
3:B:756:ARG:CG	3:B:757:LEU:N	2.83	0.41
3:B:800:PRO:HG2	11:P:38:ARG:N	2.36	0.41
3:B:1004:ARG:C	3:B:1004:ARG:CD	2.92	0.41
4:D:21:PRO:O	4:D:24:PHE:HB3	2.21	0.41
4:D:27:ALA:HA	9:L:23:THR:HG23	2.03	0.41
4:D:35:TYR:O	4:D:149:TYR:HD2	2.04	0.41
4:D:131:VAL:CG2	4:D:132:LEU:N	2.61	0.41
4:D:133:LEU:HD21	4:D:139:ILE:CG1	2.50	0.41
6:F:60:SER:C	6:F:62:ILE:H	2.29	0.41
8:K:35:VAL:C	8:K:37:SER:N	2.75	0.41
8:K:66:GLU:O	8:K:70:ARG:HG3	2.21	0.41
10:N:53:VAL:HG23	10:N:54:ASP:N	2.36	0.41
1:Q:30:PRO:HB2	1:Q:244:ARG:HA	2.02	0.41
1:Q:58:CYS:O	1:Q:60:THR:N	2.52	0.41
1:Q:70:GLY:HA3	1:Q:216:PRO:HG3	2.03	0.41
1:Q:80:PRO:HD2	1:Q:178:SER:HB3	2.03	0.41
1:Q:269:LEU:O	1:Q:273:VAL:HG23	2.21	0.41
1:Q:316:LYS:HZ3	3:R:1049:LEU:HD12	1.85	0.41
1:Q:317:ARG:HB2	3:R:1016:PRO:HB2	2.03	0.41
1:Q:431:MET:HE3	1:Q:482:VAL:HA	2.02	0.41
1:Q:451:PRO:O	1:Q:452:PRO:C	2.60	0.41
1:Q:618:GLU:HG3	2:G:61:GLU:OE2	2.21	0.41
1:Q:672:VAL:CG1	1:Q:700:ILE:HD12	2.36	0.41
1:Q:752:VAL:HG22	1:Q:757:ILE:HD13	2.03	0.41
1:Q:757:ILE:HB	1:Q:779:ARG:C	2.46	0.41
1:Q:786:PHE:CE2	1:Q:790:LEU:HD21	2.55	0.41
1:Q:855:VAL:O	1:Q:855:VAL:HG12	2.21	0.41
1:Q:866:VAL:CG1	1:Q:869:ASN:H	2.09	0.41
2:G:341:VAL:HG13	2:G:364:GLU:HG2	2.02	0.41
2:G:384:GLY:HA2	5:T:61:PHE:CE1	2.56	0.41
3:R:38:LYS:O	3:R:39:LEU:HB3	2.21	0.41
3:R:53:ILE:HB	3:R:54:PRO:CD	2.51	0.41
3:R:104:GLU:OE2	3:R:379:LEU:HD12	2.20	0.41
3:R:128:ASP:OD1	3:R:130:ILE:CB	2.68	0.41
3:R:237:ASP:O	3:R:241:ALA:N	2.54	0.41
3:R:380:ALA:O	3:R:381:LEU:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:555:VAL:HG21	3:R:568:VAL:HG22	2.03	0.41
3:R:702:LEU:O	3:R:703:VAL:HB	2.21	0.41
3:R:725:ALA:CB	3:R:985:PHE:CE1	3.04	0.41
3:R:725:ALA:O	3:R:909:ILE:HG23	2.20	0.41
3:R:762:GLU:OE2	3:R:773:ILE:HG13	2.21	0.41
3:R:895:VAL:HG21	4:S:34:LEU:HD21	2.03	0.41
3:R:904:VAL:HG21	10:Y:42:ARG:NE	2.29	0.41
3:R:935:LEU:HD21	10:Y:43:TYR:HD2	1.85	0.41
3:R:1062:ASP:OD1	3:R:1087:ASN:O	2.39	0.41
4:S:31:ALA:HA	4:S:35:TYR:HD2	1.85	0.41
5:T:51:VAL:O	5:T:53:THR:N	2.49	0.41
5:T:58:ILE:HG22	5:T:59:LEU:N	2.35	0.41
5:T:75:ILE:HD12	6:U:20:LEU:HD12	2.03	0.41
5:T:92:VAL:CG1	5:T:127:ILE:HG12	2.49	0.41
5:T:97:ILE:CD1	5:T:136:ILE:HG21	2.51	0.41
6:U:60:SER:HA	6:U:69:ARG:NH2	2.36	0.41
7:V:17:VAL:HG13	7:V:17:VAL:O	2.20	0.41
7:V:28:ALA:C	7:V:30:LYS:N	2.78	0.41
8:W:15:PHE:HD1	8:W:16:ASN:OD1	2.04	0.41
8:W:79:ARG:NH1	8:W:79:ARG:CG	2.84	0.41
9:X:74:GLU:O	9:X:77:ARG:N	2.54	0.41
1:A:70:GLY:O	3:B:1067:ILE:HD11	2.21	0.41
1:A:426:HIS:CE1	1:A:490:ARG:HH22	2.39	0.41
1:A:563:HIS:HD2	1:A:587:VAL:HG13	1.85	0.41
1:A:778:ALA:O	1:A:780:GLY:N	2.54	0.41
1:A:787:ARG:O	1:A:788:THR:C	2.64	0.41
1:A:851:GLY:C	1:A:853:ASP:N	2.78	0.41
2:C:25:PRO:O	2:C:28:ILE:HA	2.21	0.41
2:C:125:TYR:HA	2:C:250:ILE:HG23	2.03	0.41
2:C:140:VAL:O	2:C:144:LEU:HG	2.20	0.41
3:B:59:ARG:CZ	3:B:107:ILE:HD12	2.51	0.41
3:B:84:GLU:C	3:B:86:ARG:N	2.76	0.41
3:B:102:PRO:C	3:B:103:VAL:HG23	2.45	0.41
3:B:125:SER:O	3:B:126:ALA:C	2.64	0.41
3:B:250:ASN:C	3:B:252:LEU:N	2.79	0.41
3:B:405:GLY:C	3:B:407:ARG:H	2.29	0.41
3:B:653:SER:C	3:B:655:ILE:N	2.78	0.41
3:B:683:ASN:O	3:B:684:TYR:C	2.63	0.41
3:B:831:ALA:C	3:B:832:LYS:HG3	2.45	0.41
3:B:849:LEU:HD12	3:B:850:VAL:H	1.86	0.41
4:D:30:ARG:O	4:D:34:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:31:ALA:HB3	4:D:245:ALA:HB1	2.03	0.41
4:D:66:PRO:CD	10:N:13:LEU:HD21	2.51	0.41
4:D:194:LYS:C	4:D:196:SER:N	2.75	0.41
5:E:90:LEU:HD12	5:E:100:ASN:HB2	2.03	0.41
7:H:13:ILE:HG13	7:H:14:HIS:N	2.36	0.41
8:K:78:ILE:HD11	8:K:92:LEU:HD12	2.03	0.41
9:L:76:ILE:O	9:L:79:MET:HB3	2.21	0.41
1:Q:297:THR:O	1:Q:300:GLN:HB3	2.20	0.41
1:Q:329:ASP:OD2	3:R:732:TYR:CE2	2.74	0.41
1:Q:344:ALA:O	1:Q:411:LEU:HB2	2.21	0.41
1:Q:469:SER:HB2	1:Q:472:ALA:H	1.85	0.41
1:Q:500:GLN:HB2	3:R:913:HIS:CD2	2.56	0.41
1:Q:517:THR:CG2	1:Q:518:LYS:H	2.34	0.41
1:Q:529:ASP:HB3	1:Q:626:TRP:CD1	2.55	0.41
1:Q:826:ALA:CB	2:G:334:VAL:HG13	2.44	0.41
2:G:68:GLU:HB3	8:W:30:TYR:OH	2.21	0.41
2:G:390:MET:SD	5:T:67:TYR:O	2.79	0.41
2:G:390:MET:HE2	2:G:390:MET:CA	2.50	0.41
3:R:183:ILE:HB	3:R:207:ASP:O	2.20	0.41
3:R:183:ILE:O	3:R:184:THR:O	2.39	0.41
3:R:203:GLU:C	3:R:204:ARG:HG3	2.45	0.41
3:R:368:GLN:O	3:R:372:SER:N	2.54	0.41
3:R:412:GLN:NE2	3:R:425:HIS:CE1	2.89	0.41
3:R:536:LEU:C	3:R:536:LEU:CD1	2.86	0.41
3:R:624:ALA:CB	3:R:639:HIS:CD2	3.04	0.41
3:R:740:MET:HB3	3:R:891:LEU:CD1	2.51	0.41
6:U:79:THR:C	6:U:81:ASP:N	2.79	0.41
9:X:87:ILE:HG23	9:X:88:LYS:N	2.35	0.41
1:A:58:CYS:O	1:A:60:THR:N	2.50	0.40
1:A:92:GLU:HA	1:A:95:LYS:HG3	2.03	0.40
1:A:361:LEU:HD12	1:A:361:LEU:HA	1.96	0.40
1:A:495:ILE:HG23	1:A:496:ILE:HG13	2.02	0.40
1:A:750:GLN:OE1	1:A:801:GLY:HA3	2.21	0.40
2:C:32:LEU:O	2:C:36:ILE:HG13	2.21	0.40
2:C:80:GLU:C	2:C:80:GLU:OE1	2.64	0.40
2:C:131:LYS:HD3	2:C:248:GLU:HB3	2.01	0.40
2:C:247:ASP:O	2:C:248:GLU:HG3	2.21	0.40
2:C:390:MET:C	2:C:391:ARG:CD	2.93	0.40
3:B:6:THR:CB	3:B:9:GLU:HB3	2.50	0.40
3:B:334:ASP:OD1	3:B:446:HIS:CE1	2.73	0.40
3:B:497:VAL:HG12	3:B:498:GLU:H	1.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:624:ALA:CB	3:B:639:HIS:CD2	3.04	0.40
3:B:654:ILE:HG22	3:B:654:ILE:O	2.20	0.40
3:B:808:ASP:O	3:B:838:VAL:HG13	2.20	0.40
3:B:1046:LYS:O	3:B:1050:LEU:HD23	2.22	0.40
4:D:180:VAL:HG22	4:D:190:LEU:HG	2.00	0.40
1:Q:16:PRO:HD3	1:Q:203:ARG:HH22	1.86	0.40
1:Q:215:PRO:O	1:Q:216:PRO:O	2.39	0.40
1:Q:562:PHE:CD2	1:Q:611:ILE:HG12	2.56	0.40
1:Q:615:LEU:O	1:Q:619:TYR:HD1	2.04	0.40
2:G:65:ALA:HA	2:G:66:PRO:HD3	1.84	0.40
2:G:393:ILE:HB	5:T:19:GLY:HA2	2.03	0.40
3:R:323:ILE:HG13	3:R:324:GLU:N	2.36	0.40
3:R:483:ARG:HA	3:R:486:GLU:HG2	2.03	0.40
3:R:683:ASN:O	3:R:684:TYR:C	2.63	0.40
3:R:726:VAL:HG23	3:R:984:TYR:HD1	1.86	0.40
3:R:898:PRO:HB2	3:R:970:VAL:CG2	2.51	0.40
3:R:1051:ASP:HA	3:R:1055:ARG:HG2	2.02	0.40
4:S:35:TYR:O	4:S:149:TYR:HD2	2.04	0.40
4:S:45:TYR:HD1	11:Z:44:ILE:HG12	1.86	0.40
5:T:175:ILE:HA	5:T:178:THR:OG1	2.21	0.40
9:X:6:LEU:HB2	9:X:14:GLU:O	2.21	0.40
11:Z:13:PHE:N	11:Z:13:PHE:HD1	2.19	0.40
1:A:66:GLY:C	1:A:68:CYS:H	2.30	0.40
1:A:176:THR:HA	1:A:177:PRO:HD3	1.88	0.40
1:A:540:LEU:HD23	1:A:540:LEU:HA	1.77	0.40
1:A:656:ASP:HA	1:A:659:LYS:CG	2.51	0.40
1:A:672:VAL:O	1:A:675:LEU:N	2.54	0.40
1:A:740:ILE:HD13	1:A:740:ILE:HA	1.95	0.40
1:A:782:ILE:HG13	1:A:794:GLU:HB3	2.02	0.40
3:B:87:LEU:HD22	3:B:851:LEU:HD11	2.03	0.40
3:B:91:THR:HA	3:B:155:ASN:N	2.35	0.40
3:B:191:SER:CB	3:B:298:LEU:HA	2.52	0.40
3:B:254:PRO:HG2	3:B:255:SER:H	1.86	0.40
3:B:402:ASN:O	3:B:403:TRP:CB	2.70	0.40
3:B:452:ARG:HG3	3:B:452:ARG:NH1	2.36	0.40
3:B:474:ALA:HB3	3:B:578:PRO:HD3	2.04	0.40
3:B:776:PRO:C	3:B:777:GLU:HG3	2.46	0.40
3:B:935:LEU:HD21	10:N:43:TYR:HD2	1.85	0.40
6:F:31:SER:HA	6:F:35:GLN:NE2	2.30	0.40
1:Q:24:VAL:HG22	1:Q:72:PHE:O	2.20	0.40
1:Q:84:VAL:HG11	1:Q:281:ILE:HD12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:470:GLU:O	1:Q:473:ILE:HD11	2.21	0.40
1:Q:575:CYS:HG	1:Q:582:HIS:HB2	1.87	0.40
2:G:25:PRO:HG3	2:G:33:LYS:NZ	2.37	0.40
2:G:65:ALA:CB	8:W:19:PHE:HE1	2.35	0.40
2:G:106:ARG:HH11	2:G:106:ARG:CG	2.35	0.40
2:G:118:SER:O	2:G:119:THR:CB	2.69	0.40
2:G:131:LYS:HD3	2:G:248:GLU:HB3	2.02	0.40
2:G:135:ASP:O	2:G:137:ALA:N	2.54	0.40
2:G:269:VAL:O	7:V:14:HIS:CG	2.75	0.40
2:G:286:ILE:O	2:G:289:ALA:N	2.50	0.40
2:G:379:ILE:H	2:G:379:ILE:CD1	2.31	0.40
3:R:92:TYR:O	3:R:92:TYR:HD2	2.05	0.40
3:R:644:SER:C	3:R:646:ALA:N	2.79	0.40
3:R:659:GLU:C	3:R:660:HIS:CD2	2.99	0.40
3:R:707:ALA:HA	3:R:710:ILE:HD12	2.03	0.40
3:R:738:ILE:CG1	3:R:739:ILE:N	2.84	0.40
3:R:771:ASP:OD1	3:R:816:PRO:HG3	2.20	0.40
3:R:1069:TRP:NE1	3:R:1088:LEU:CB	2.80	0.40
3:R:1069:TRP:HE3	3:R:1070:TYR:O	2.04	0.40
4:S:78:TRP:O	4:S:80:GLU:N	2.54	0.40
4:S:200:GLU:C	4:S:202:SER:H	2.30	0.40
5:T:70:VAL:HG12	5:T:71:GLU:N	2.35	0.40
6:U:3:SER:O	6:U:4:VAL:CG2	2.69	0.40
8:W:54:ASN:ND2	8:W:58:SER:HB2	2.36	0.40
1:A:4:LYS:NZ	3:B:1060:VAL:HB	2.36	0.40
1:A:15:SER:CA	1:A:203:ARG:NH2	2.80	0.40
1:A:30:PRO:HG3	1:A:247:GLU:OE1	2.22	0.40
1:A:82:ILE:HD11	1:A:90:ILE:CD1	2.52	0.40
1:A:249:LEU:HD23	1:A:249:LEU:HA	1.92	0.40
1:A:432:ALA:HB3	1:A:480:MET:C	2.46	0.40
1:A:528:ALA:C	1:A:530:VAL:N	2.79	0.40
1:A:567:ASN:ND2	1:A:731:THR:CA	2.84	0.40
1:A:782:ILE:N	1:A:782:ILE:CD1	2.83	0.40
1:A:796:PHE:CE1	3:B:445:LEU:HD13	2.56	0.40
1:A:856:PHE:H	2:C:64:ILE:CG2	2.34	0.40
1:A:859:TYR:CD1	2:C:64:ILE:HG23	2.56	0.40
2:C:115:LYS:C	2:C:116:VAL:CG2	2.93	0.40
3:B:71:ARG:HG2	3:B:74:ASP:HB3	2.03	0.40
3:B:97:TRP:HZ3	3:B:113:GLU:CB	2.34	0.40
3:B:618:ALA:C	3:B:620:GLU:N	2.71	0.40
3:B:657:TYR:N	3:B:658:PRO:CD	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:925:MET:HE3	3:B:950:ILE:HD13	2.03	0.40
3:B:1061:CYS:HA	3:B:1088:LEU:CD2	2.50	0.40
4:D:86:THR:O	4:D:87:GLU:CB	2.69	0.40
5:E:90:LEU:CD1	5:E:100:ASN:HB2	2.52	0.40
5:E:135:VAL:N	5:E:174:TRP:HZ2	2.08	0.40
6:F:60:SER:C	6:F:62:ILE:N	2.78	0.40
7:H:39:PRO:HB3	7:H:80:TYR:CE2	2.57	0.40
7:H:81:VAL:C	7:H:82:ILE:HG12	2.47	0.40
1:Q:13:ILE:HD12	1:Q:207:MET:HG2	2.03	0.40
1:Q:247:GLU:O	1:Q:251:GLU:HG3	2.20	0.40
1:Q:273:VAL:O	1:Q:276:TYR:HB3	2.22	0.40
1:Q:326:ILE:HG21	1:Q:462:MET:CG	2.51	0.40
1:Q:548:GLY:O	1:Q:549:LYS:C	2.63	0.40
1:Q:589:LYS:O	1:Q:592:ILE:CB	2.70	0.40
1:Q:668:ALA:O	1:Q:671:GLU:N	2.55	0.40
1:Q:681:ASN:O	1:Q:683:GLU:N	2.54	0.40
1:Q:710:THR:O	1:Q:710:THR:HG22	2.20	0.40
1:Q:795:LEU:O	1:Q:795:LEU:HD23	2.21	0.40
3:R:97:TRP:CZ3	3:R:113:GLU:CD	2.98	0.40
3:R:178:LYS:O	3:R:179:THR:C	2.64	0.40
3:R:369:LEU:HD21	3:R:379:LEU:CD2	2.51	0.40
3:R:375:ARG:H	3:R:375:ARG:HG3	1.70	0.40
3:R:422:MET:HE3	3:R:423:LEU:HD23	2.02	0.40
3:R:528:GLY:C	3:R:529:TYR:CD1	3.00	0.40
3:R:579:LEU:CD1	3:R:616:LEU:HD12	2.41	0.40
3:R:726:VAL:HG23	3:R:984:TYR:CD1	2.56	0.40
4:S:217:ILE:N	4:S:217:ILE:CD1	2.81	0.40
4:S:252:LYS:O	4:S:253:ILE:C	2.63	0.40
7:V:47:ALA:C	7:V:49:ASP:N	2.79	0.40
8:W:25:ASN:O	8:W:26:ARG:O	2.39	0.40
10:Y:22:ILE:CD1	10:Y:23:THR:H	2.34	0.40
1:A:331:ASN:C	1:A:332:ILE:HD12	2.47	0.40
1:A:432:ALA:HB3	1:A:481:LEU:HA	2.04	0.40
1:A:451:PRO:O	1:A:452:PRO:C	2.63	0.40
1:A:488:THR:HG22	1:A:490:ARG:N	2.35	0.40
1:A:853:ASP:OD2	2:C:311:ARG:NH1	2.54	0.40
1:A:875:VAL:O	1:A:876:VAL:C	2.63	0.40
2:C:103:GLY:O	2:C:104:LEU:CB	2.69	0.40
2:C:126:LEU:HD11	2:C:249:TYR:CB	2.50	0.40
2:C:253:THR:C	2:C:255:GLY:N	2.79	0.40
2:C:286:ILE:O	2:C:289:ALA:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:63:ILE:HG13	3:B:98:LEU:CD2	2.47	0.40
3:B:83:MET:HE2	3:B:683:ASN:HD22	1.87	0.40
3:B:122:MET:HE2	3:B:125:SER:HB3	2.03	0.40
3:B:183:ILE:HB	3:B:208:GLY:N	2.35	0.40
3:B:325:LEU:CD1	3:B:331:GLU:H	2.34	0.40
3:B:450:TRP:O	3:B:450:TRP:CE3	2.75	0.40
3:B:983:ILE:O	3:B:984:TYR:C	2.64	0.40
3:B:1050:LEU:CD2	3:B:1051:ASP:N	2.81	0.40
5:E:14:PRO:HA	5:E:15:PRO:HD3	1.89	0.40
5:E:64:GLY:O	8:K:42:GLN:HG3	2.21	0.40
5:E:67:TYR:CD1	5:E:67:TYR:N	2.88	0.40
7:H:35:LEU:HD23	7:H:35:LEU:HA	1.94	0.40
8:K:54:ASN:ND2	8:K:58:SER:CB	2.84	0.40
10:N:20:SER:H	10:N:22:ILE:CD1	2.34	0.40
1:Q:463:ASN:ND2	3:R:1026:LEU:HD13	2.37	0.40
1:Q:487:ILE:O	1:Q:858:MET:HE3	2.21	0.40
1:Q:491:TYR:OH	2:G:81:PRO:HG3	2.21	0.40
1:Q:548:GLY:O	1:Q:550:GLN:N	2.54	0.40
1:Q:552:ILE:HD12	1:Q:553:SER:N	2.37	0.40
1:Q:618:GLU:O	1:Q:619:TYR:CG	2.75	0.40
1:Q:656:ASP:HA	1:Q:659:LYS:CG	2.51	0.40
2:G:27:LYS:O	2:G:28:ILE:C	2.63	0.40
2:G:74:ALA:C	2:G:76:GLN:H	2.29	0.40
2:G:131:LYS:HD3	2:G:248:GLU:CG	2.51	0.40
2:G:249:TYR:HD1	2:G:249:TYR:H	1.68	0.40
2:G:386:VAL:CG1	8:W:34:ARG:HB2	2.51	0.40
3:R:24:VAL:HG21	3:R:426:LEU:CD1	2.50	0.40
3:R:91:THR:HA	3:R:155:ASN:N	2.36	0.40
3:R:162:VAL:HG23	3:R:428:ARG:O	2.21	0.40
3:R:182:ASN:N	3:R:182:ASN:ND2	2.67	0.40
3:R:433:LEU:HD12	3:R:435:ARG:NH2	2.37	0.40
3:R:453:MET:HE1	3:R:470:LEU:HD23	2.03	0.40
3:R:536:LEU:HD21	3:R:540:ILE:HD11	2.03	0.40
3:R:644:SER:HB2	3:R:645:PRO:HD3	2.03	0.40
3:R:700:ARG:HE	3:R:939:ILE:CD1	2.34	0.40
3:R:721:ASN:HD22	10:Y:51:SER:CB	2.34	0.40
3:R:994:HIS:CD2	3:R:994:HIS:H	2.39	0.40
3:R:1013:THR:HA	3:R:1099:LEU:HD11	2.03	0.40
4:S:58:LEU:HD23	4:S:58:LEU:C	2.47	0.40
4:S:118:ASP:C	4:S:118:ASP:OD2	2.63	0.40
4:S:235:SER:C	4:S:236:LEU:CD1	2.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:124:ARG:NH2	5:T:137:GLN:OE1	2.53	0.40
6:U:72:LEU:HD21	6:U:86:ILE:HG21	2.03	0.40
7:V:15:TYR:HD2	7:V:16:LEU:HD11	1.84	0.40
7:V:79:ARG:O	7:V:80:TYR:HB2	2.21	0.40
8:W:91:SER:O	8:W:92:LEU:HB3	2.20	0.40
1:A:47:PRO:CG	1:A:48:ARG:HD3	2.47	0.40
1:A:75:ILE:HD13	1:A:214:VAL:CG2	2.51	0.40
1:A:352:ARG:HB3	1:A:406:ILE:HD13	2.03	0.40
1:A:426:HIS:O	1:A:429:SER:HB2	2.21	0.40
1:A:503:ILE:O	1:A:503:ILE:HG13	2.21	0.40
1:A:530:VAL:O	1:A:532:ILE:N	2.55	0.40
1:A:590:ASN:HD21	3:R:377:ARG:HB2	1.76	0.40
1:A:650:ASP:HB3	1:A:723:ASN:CG	2.41	0.40
1:A:763:THR:HG22	1:A:772:TYR:HA	2.03	0.40
2:C:301:LEU:C	2:C:303:GLU:N	2.78	0.40
3:B:50:PRO:HG2	3:B:51:THR:N	2.29	0.40
3:B:146:LYS:HD2	10:N:58:GLU:OE2	2.21	0.40
3:B:388:ASP:C	3:B:391:THR:H	2.30	0.40
3:B:461:GLY:HA3	3:B:462:PRO:HD3	1.95	0.40
3:B:743:SER:C	3:B:745:VAL:N	2.79	0.40
3:B:855:THR:HB	3:B:857:GLU:CB	2.52	0.40
3:B:1064:CYS:O	3:B:1066:TYR:N	2.55	0.40
4:D:13:ILE:CD1	4:D:239:GLU:N	2.84	0.40
4:D:116:SER:O	4:D:118:ASP:N	2.55	0.40
4:D:232:SER:C	4:D:234:GLY:H	2.28	0.40
5:E:179:LYS:CE	6:F:82:GLU:HG3	2.51	0.40
6:F:21:LEU:HA	6:F:24:VAL:CG2	2.51	0.40
11:P:13:PHE:N	11:P:13:PHE:HD1	2.19	0.40
11:P:27:PRO:O	11:P:28:TYR:HB2	2.20	0.40
1:Q:490:ARG:NH1	2:G:80:GLU:HG3	2.36	0.40
1:Q:582:HIS:C	1:Q:584:SER:N	2.80	0.40
1:Q:738:LEU:H	1:Q:738:LEU:CD2	2.35	0.40
1:Q:831:ARG:NH2	2:G:385:MET:SD	2.95	0.40
1:Q:864:LYS:O	2:G:32:LEU:CD1	2.69	0.40
2:G:322:ARG:O	2:G:323:THR:C	2.62	0.40
2:G:379:ILE:CD1	3:R:1042:ALA:HA	2.43	0.40
3:R:9:GLU:HA	3:R:592:GLU:OE1	2.21	0.40
3:R:37:ASN:O	3:R:41:GLU:HG3	2.22	0.40
3:R:83:MET:CE	3:R:686:LEU:HB2	2.49	0.40
3:R:94:ALA:HB2	3:R:121:ILE:CG1	2.51	0.40
3:R:223:PHE:CE2	3:R:256:LEU:HD13	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:228:ARG:C	3:R:230:LEU:N	2.78	0.40
3:R:740:MET:HE2	3:R:888:ILE:HD12	2.03	0.40
3:R:855:THR:O	3:R:858:GLY:N	2.55	0.40
3:R:932:TYR:CE1	3:R:936:SER:CB	3.04	0.40
3:R:952:GLN:O	3:R:955:ASN:N	2.53	0.40
3:R:1033:ARG:O	3:R:1037:ILE:HG13	2.21	0.40
4:S:18:GLU:CG	4:S:225:LYS:HG2	2.51	0.40
4:S:22:LEU:C	4:S:24:PHE:N	2.79	0.40
4:S:22:LEU:HD22	4:S:166:TYR:HE1	1.87	0.40
4:S:72:ALA:C	4:S:74:ASP:N	2.79	0.40
5:T:53:THR:CG2	5:T:70:VAL:HA	2.51	0.40
7:V:15:TYR:HB3	7:V:16:LEU:H	1.65	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	768/880 (87%)	513 (67%)	136 (18%)	119 (16%)	0	0
1	Q	768/880 (87%)	509 (66%)	141 (18%)	118 (15%)	0	0
2	C	273/392 (70%)	158 (58%)	66 (24%)	49 (18%)	0	0
2	G	273/392 (70%)	161 (59%)	61 (22%)	51 (19%)	0	0
3	B	1084/1124 (96%)	698 (64%)	238 (22%)	148 (14%)	0	1
3	R	1084/1124 (96%)	698 (64%)	237 (22%)	149 (14%)	0	1
4	D	262/265 (99%)	166 (63%)	69 (26%)	27 (10%)	0	2
4	S	262/265 (99%)	167 (64%)	66 (25%)	29 (11%)	0	2
5	E	172/180 (96%)	123 (72%)	31 (18%)	18 (10%)	0	2
5	T	172/180 (96%)	122 (71%)	32 (19%)	18 (10%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	F	87/113 (77%)	56 (64%)	22 (25%)	9 (10%)	0	2
6	U	87/113 (77%)	56 (64%)	23 (26%)	8 (9%)	0	3
7	H	72/84 (86%)	46 (64%)	13 (18%)	13 (18%)	0	0
7	V	72/84 (86%)	44 (61%)	15 (21%)	13 (18%)	0	0
8	K	80/95 (84%)	44 (55%)	19 (24%)	17 (21%)	0	0
8	W	80/95 (84%)	44 (55%)	20 (25%)	16 (20%)	0	0
9	L	90/92 (98%)	64 (71%)	19 (21%)	7 (8%)	1	4
9	X	90/92 (98%)	66 (73%)	17 (19%)	7 (8%)	1	4
10	N	62/66 (94%)	30 (48%)	18 (29%)	14 (23%)	0	0
10	Y	62/66 (94%)	31 (50%)	18 (29%)	13 (21%)	0	0
11	P	41/48 (85%)	24 (58%)	10 (24%)	7 (17%)	0	0
11	Z	41/48 (85%)	23 (56%)	11 (27%)	7 (17%)	0	0
All	All	5982/6678 (90%)	3843 (64%)	1282 (21%)	857 (14%)	0	0

All (857) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	56	GLN
1	A	58	CYS
1	A	64	THR
1	A	65	LEU
1	A	194	ILE
1	A	207	MET
1	A	216	PRO
1	A	259	GLN
1	A	287	SER
1	A	295	LEU
1	A	298	LEU
1	A	303	LYS
1	A	377	TYR
1	A	387	ASP
1	A	392	LYS
1	A	403	PRO
1	A	447	LEU
1	A	454	ASN
1	A	506	ALA
1	A	514	THR
1	A	528	ALA

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Mol	Chain	Res	Type
1	A	529	ASP
1	A	530	VAL
1	A	532	ILE
1	A	534	LEU
1	A	541	ALA
1	A	584	SER
1	A	595	GLU
1	A	608	PRO
1	A	733	ALA
1	A	746	MET
1	A	759	ARG
1	A	764	ARG
1	A	826	ALA
1	A	842	TYR
1	A	864	LYS
1	A	876	VAL
2	C	38	ASN
2	C	42	ILE
2	C	48	ILE
2	C	60	SER
2	C	66	PRO
2	C	104	LEU
2	C	113	ALA
2	C	126	LEU
2	C	128	ASP
2	C	130	TYR
2	C	145	GLU
2	C	248	GLU
2	C	281	GLU
2	C	306	LEU
2	C	353	HIS
2	C	362	ASP
2	C	365	GLU
2	C	390	MET
2	C	391	ARG
2	C	393	ILE
3	B	47	GLY
3	B	50	PRO
3	B	97	TRP
3	B	110	GLU
3	B	111	PRO
3	B	112	GLU

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Mol	Chain	Res	Type
3	B	158	GLU
3	B	171	ARG
3	B	184	THR
3	B	210	PHE
3	B	242	VAL
3	B	297	PHE
3	B	303	THR
3	B	325	LEU
3	B	331	GLU
3	B	372	SER
3	B	378	LYS
3	B	402	ASN
3	B	403	TRP
3	B	448	THR
3	B	473	MET
3	B	482	GLU
3	B	483	ARG
3	B	530	TYR
3	B	534	GLY
3	B	571	ASP
3	B	587	PRO
3	B	590	THR
3	B	602	ILE
3	B	618	ALA
3	B	635	PRO
3	B	691	ARG
3	B	769	GLN
3	B	770	GLU
3	B	790	ARG
3	B	800	PRO
3	B	801	GLU
3	B	814	VAL
3	B	933	ALA
3	B	945	PHE
3	B	946	TYR
3	B	966	ALA
3	B	983	ILE
3	B	1030	GLU
3	B	1056	THR
3	B	1071	ASP
3	B	1077	TYR
3	B	1081	ILE

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Mol	Chain	Res	Type
3	B	1082	HIS
3	B	1111	PRO
3	B	1114	VAL
4	D	35	TYR
4	D	72	ALA
4	D	103	PRO
4	D	125	SER
4	D	135	THR
4	D	152	GLU
4	D	154	ALA
4	D	162	SER
4	D	177	GLU
4	D	195	LEU
4	D	196	SER
4	D	203	CYS
4	D	205	LEU
5	E	22	LEU
5	E	39	LEU
5	E	81	VAL
5	E	82	GLN
5	E	123	VAL
5	E	146	VAL
5	E	148	SER
5	E	151	SER
7	H	13	ILE
7	H	25	ILE
7	H	28	ALA
7	H	56	ASN
8	K	26	ARG
8	K	27	LEU
8	K	47	ALA
8	K	50	LEU
8	K	51	ILE
8	K	58	SER
8	K	60	ASP
8	K	61	VAL
9	L	28	ILE
9	L	39	SER
10	N	19	GLN
10	N	20	SER
10	N	29	GLU
10	N	48	MET

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Mol	Chain	Res	Type
10	N	60	ILE
10	N	61	HIS
11	P	25	ARG
1	Q	56	GLN
1	Q	58	CYS
1	Q	64	THR
1	Q	65	LEU
1	Q	194	ILE
1	Q	207	MET
1	Q	216	PRO
1	Q	259	GLN
1	Q	287	SER
1	Q	295	LEU
1	Q	298	LEU
1	Q	303	LYS
1	Q	356	TRP
1	Q	377	TYR
1	Q	387	ASP
1	Q	392	LYS
1	Q	403	PRO
1	Q	447	LEU
1	Q	454	ASN
1	Q	506	ALA
1	Q	514	THR
1	Q	528	ALA
1	Q	529	ASP
1	Q	530	VAL
1	Q	532	ILE
1	Q	534	LEU
1	Q	541	ALA
1	Q	584	SER
1	Q	595	GLU
1	Q	608	PRO
1	Q	645	THR
1	Q	733	ALA
1	Q	746	MET
1	Q	759	ARG
1	Q	764	ARG
1	Q	826	ALA
1	Q	842	TYR
1	Q	864	LYS
1	Q	876	VAL

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Mol	Chain	Res	Type
2	G	38	ASN
2	G	42	ILE
2	G	48	ILE
2	G	60	SER
2	G	66	PRO
2	G	104	LEU
2	G	113	ALA
2	G	126	LEU
2	G	128	ASP
2	G	145	GLU
2	G	248	GLU
2	G	281	GLU
2	G	306	LEU
2	G	353	HIS
2	G	362	ASP
2	G	365	GLU
2	G	390	MET
2	G	391	ARG
2	G	393	ILE
3	R	47	GLY
3	R	50	PRO
3	R	97	TRP
3	R	109	ALA
3	R	110	GLU
3	R	111	PRO
3	R	112	GLU
3	R	158	GLU
3	R	171	ARG
3	R	184	THR
3	R	210	PHE
3	R	242	VAL
3	R	297	PHE
3	R	303	THR
3	R	325	LEU
3	R	331	GLU
3	R	372	SER
3	R	378	LYS
3	R	402	ASN
3	R	403	TRP
3	R	473	MET
3	R	482	GLU
3	R	483	ARG

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Mol	Chain	Res	Type
3	R	530	TYR
3	R	571	ASP
3	R	587	PRO
3	R	590	THR
3	R	602	ILE
3	R	618	ALA
3	R	635	PRO
3	R	691	ARG
3	R	769	GLN
3	R	770	GLU
3	R	789	TYR
3	R	790	ARG
3	R	800	PRO
3	R	801	GLU
3	R	814	VAL
3	R	933	ALA
3	R	945	PHE
3	R	946	TYR
3	R	966	ALA
3	R	983	ILE
3	R	1030	GLU
3	R	1056	THR
3	R	1071	ASP
3	R	1077	TYR
3	R	1081	ILE
3	R	1082	HIS
3	R	1111	PRO
3	R	1114	VAL
4	S	35	TYR
4	S	72	ALA
4	S	103	PRO
4	S	125	SER
4	S	135	THR
4	S	152	GLU
4	S	154	ALA
4	S	162	SER
4	S	177	GLU
4	S	195	LEU
4	S	196	SER
4	S	203	CYS
4	S	205	LEU
5	T	22	LEU

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Mol	Chain	Res	Type
5	T	23	ASN
5	T	39	LEU
5	T	81	VAL
5	T	82	GLN
5	T	123	VAL
5	T	146	VAL
5	T	148	SER
5	T	151	SER
7	V	13	ILE
7	V	25	ILE
7	V	28	ALA
8	W	26	ARG
8	W	27	LEU
8	W	47	ALA
8	W	50	LEU
8	W	51	ILE
8	W	58	SER
8	W	60	ASP
8	W	61	VAL
9	X	28	ILE
9	X	39	SER
10	Y	19	GLN
10	Y	20	SER
10	Y	29	GLU
10	Y	48	MET
10	Y	60	ILE
10	Y	61	HIS
1	A	23	SER
1	A	24	VAL
1	A	27	ILE
1	A	47	PRO
1	A	66	GLY
1	A	255	ALA
1	A	282	PRO
1	A	283	GLY
1	A	307	GLY
1	A	355	PRO
1	A	356	TRP
1	A	358	ILE
1	A	376	ASN
1	A	391	VAL
1	A	426	HIS

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Mol	Chain	Res	Type
1	A	482	VAL
1	A	508	LEU
1	A	537	PRO
1	A	543	ARG
1	A	558	LYS
1	A	585	TYR
1	A	605	ASN
1	A	645	THR
1	A	682	GLY
1	A	684	LEU
1	A	691	THR
1	A	724	PHE
1	A	731	THR
1	A	786	PHE
1	A	805	GLY
1	A	829	ASP
1	A	841	LEU
1	A	852	ASP
1	A	877	GLY
2	C	28	ILE
2	C	30	ASP
2	C	44	THR
2	C	45	ARG
2	C	50	LYS
2	C	249	TYR
2	C	264	VAL
2	C	330	GLY
2	C	337	GLU
2	C	360	ARG
2	C	364	GLU
2	C	367	LYS
2	C	368	GLY
3	B	21	LYS
3	B	23	LEU
3	B	55	GLY
3	B	71	ARG
3	B	105	ASN
3	B	109	ALA
3	B	166	ASP
3	B	179	THR
3	B	185	HIS
3	B	223	PHE

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Mol	Chain	Res	Type
3	B	231	GLY
3	B	251	GLU
3	B	281	LYS
3	B	292	ILE
3	B	328	GLY
3	B	332	PRO
3	B	338	TYR
3	B	347	GLY
3	B	373	LYS
3	B	445	LEU
3	B	462	PRO
3	B	463	ASN
3	B	479	GLY
3	B	497	VAL
3	B	574	ARG
3	B	617	ASP
3	B	659	GLU
3	B	663	SER
3	B	684	TYR
3	B	730	THR
3	B	736	ASP
3	B	767	GLY
3	B	785	GLY
3	B	789	TYR
3	B	793	GLU
3	B	806	GLY
3	B	840	ARG
3	B	919	MET
3	B	921	LEU
3	B	951	GLU
3	B	1095	TYR
3	B	1118	LYS
4	D	8	LYS
4	D	17	PHE
4	D	174	ALA
4	D	178	LYS
4	D	223	GLU
5	E	23	ASN
5	E	32	GLN
5	E	52	LYS
6	F	42	ASN
7	H	48	SER

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Mol	Chain	Res	Type
7	H	55	ILE
7	H	80	TYR
7	H	81	VAL
8	K	13	LEU
9	L	44	TYR
9	L	62	SER
10	N	15	ALA
10	N	63	THR
11	P	18	LEU
11	P	20	VAL
11	P	34	ILE
1	Q	23	SER
1	Q	24	VAL
1	Q	27	ILE
1	Q	47	PRO
1	Q	66	GLY
1	Q	255	ALA
1	Q	282	PRO
1	Q	283	GLY
1	Q	307	GLY
1	Q	355	PRO
1	Q	358	ILE
1	Q	376	ASN
1	Q	391	VAL
1	Q	426	HIS
1	Q	482	VAL
1	Q	483	HIS
1	Q	508	LEU
1	Q	537	PRO
1	Q	543	ARG
1	Q	558	LYS
1	Q	585	TYR
1	Q	605	ASN
1	Q	610	SER
1	Q	682	GLY
1	Q	684	LEU
1	Q	724	PHE
1	Q	731	THR
1	Q	742	GLN
1	Q	786	PHE
1	Q	805	GLY
1	Q	841	LEU

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Mol	Chain	Res	Type
1	Q	877	GLY
2	G	28	ILE
2	G	30	ASP
2	G	44	THR
2	G	50	LYS
2	G	130	TYR
2	G	249	TYR
2	G	330	GLY
2	G	337	GLU
2	G	360	ARG
2	G	364	GLU
2	G	367	LYS
2	G	368	GLY
3	R	21	LYS
3	R	23	LEU
3	R	55	GLY
3	R	71	ARG
3	R	105	ASN
3	R	179	THR
3	R	185	HIS
3	R	223	PHE
3	R	231	GLY
3	R	251	GLU
3	R	281	LYS
3	R	292	ILE
3	R	328	GLY
3	R	332	PRO
3	R	338	TYR
3	R	347	GLY
3	R	448	THR
3	R	462	PRO
3	R	463	ASN
3	R	479	GLY
3	R	497	VAL
3	R	534	GLY
3	R	574	ARG
3	R	598	GLU
3	R	617	ASP
3	R	663	SER
3	R	684	TYR
3	R	730	THR
3	R	736	ASP

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Mol	Chain	Res	Type
3	R	767	GLY
3	R	785	GLY
3	R	793	GLU
3	R	806	GLY
3	R	840	ARG
3	R	919	MET
3	R	921	LEU
3	R	1065	GLY
3	R	1095	TYR
3	R	1118	LYS
4	S	17	PHE
4	S	174	ALA
4	S	178	LYS
4	S	223	GLU
5	T	32	GLN
5	T	52	LYS
6	U	42	ASN
7	V	55	ILE
7	V	56	ASN
7	V	80	TYR
7	V	81	VAL
8	W	13	LEU
8	W	15	PHE
8	W	29	ARG
8	W	71	ARG
9	X	44	TYR
9	X	48	PRO
9	X	62	SER
10	Y	15	ALA
10	Y	63	THR
11	Z	18	LEU
11	Z	20	VAL
11	Z	25	ARG
11	Z	34	ILE
1	A	76	GLU
1	A	95	LYS
1	A	483	HIS
1	A	531	LYS
1	A	551	VAL
1	A	610	SER
1	A	614	TRP
1	A	688	PRO

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Mol	Chain	Res	Type
1	A	742	GLN
1	A	749	GLN
1	A	779	ARG
1	A	862	HIS
1	A	865	THR
2	C	115	LYS
2	C	117	PRO
2	C	136	LYS
2	C	274	THR
2	C	275	ASN
3	B	30	SER
3	B	103	VAL
3	B	146	LYS
3	B	182	ASN
3	B	246	PRO
3	B	264	ASN
3	B	310	LYS
3	B	346	ALA
3	B	355	ARG
3	B	449	GLN
3	B	598	GLU
3	B	605	ASP
3	B	634	THR
3	B	670	SER
3	B	708	LEU
3	B	779	GLY
3	B	798	VAL
3	B	950	ILE
3	B	972	ASP
3	B	973	GLY
3	B	1065	GLY
3	B	1080	PRO
3	B	1084	ASP
4	D	55	ASP
4	D	79	PRO
4	D	91	LYS
4	D	124	ILE
4	D	206	CYS
5	E	116	ASP
6	F	7	VAL
6	F	17	ALA
6	F	58	GLU

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Mol	Chain	Res	Type
6	F	64	SER
7	H	29	TYR
8	K	15	PHE
8	K	29	ARG
8	K	71	ARG
9	L	48	PRO
9	L	50	SER
10	N	40	VAL
1	Q	76	GLU
1	Q	388	LEU
1	Q	531	LYS
1	Q	688	PRO
1	Q	691	THR
1	Q	749	GLN
1	Q	765	THR
1	Q	779	ARG
1	Q	829	ASP
1	Q	852	ASP
1	Q	865	THR
2	G	45	ARG
2	G	61	GLU
2	G	115	LYS
2	G	117	PRO
2	G	264	VAL
2	G	275	ASN
3	R	30	SER
3	R	103	VAL
3	R	146	LYS
3	R	166	ASP
3	R	182	ASN
3	R	246	PRO
3	R	264	ASN
3	R	310	LYS
3	R	346	ALA
3	R	373	LYS
3	R	445	LEU
3	R	449	GLN
3	R	605	ASP
3	R	634	THR
3	R	659	GLU
3	R	670	SER
3	R	708	LEU

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Mol	Chain	Res	Type
3	R	779	GLY
3	R	903	GLY
3	R	950	ILE
3	R	951	GLU
3	R	972	ASP
3	R	973	GLY
3	R	1080	PRO
4	S	8	LYS
4	S	91	LYS
4	S	124	ILE
4	S	206	CYS
5	T	116	ASP
6	U	7	VAL
6	U	17	ALA
6	U	64	SER
7	V	29	TYR
7	V	74	GLU
8	W	16	ASN
9	X	50	SER
10	Y	40	VAL
1	A	235	LEU
1	A	333	SER
1	A	388	LEU
1	A	394	ARG
1	A	423	PRO
1	A	524	ILE
1	A	609	GLU
1	A	626	TRP
1	A	721	PRO
1	A	760	GLY
1	A	765	THR
2	C	61	GLU
2	C	67	GLY
2	C	239	ARG
2	C	324	GLY
2	C	392	PRO
3	B	34	PHE
3	B	74	ASP
3	B	299	PRO
3	B	418	ASN
3	B	433	LEU
3	B	550	SER

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Mol	Chain	Res	Type
3	B	560	THR
3	B	759	SER
3	B	781	ARG
3	B	915	LEU
3	B	979	ILE
3	B	1053	SER
4	D	117	GLU
4	D	207	GLU
5	E	88	GLU
5	E	133	LYS
6	F	4	VAL
7	H	74	GLU
8	K	16	ASN
8	K	34	ARG
8	K	62	ILE
10	N	32	GLY
1	Q	95	LYS
1	Q	220	ARG
1	Q	235	LEU
1	Q	333	SER
1	Q	394	ARG
1	Q	551	VAL
1	Q	609	GLU
1	Q	626	TRP
1	Q	721	PRO
1	Q	760	GLY
2	G	136	LYS
2	G	239	ARG
2	G	274	THR
2	G	282	GLU
2	G	298	SER
2	G	392	PRO
3	R	74	ASP
3	R	299	PRO
3	R	306	GLU
3	R	355	ARG
3	R	418	ASN
3	R	433	LEU
3	R	457	GLU
3	R	560	THR
3	R	759	SER
3	R	781	ARG

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Mol	Chain	Res	Type
3	R	798	VAL
3	R	915	LEU
3	R	1084	ASP
4	S	55	ASP
4	S	79	PRO
4	S	117	GLU
4	S	207	GLU
5	T	133	LYS
5	T	137	GLN
6	U	4	VAL
6	U	58	GLU
7	V	48	SER
10	Y	18	TRP
10	Y	23	THR
10	Y	32	GLY
1	A	80	PRO
1	A	196	GLY
1	A	220	ARG
1	A	332	ILE
1	A	369	PRO
1	A	533	ASP
1	A	599	ASP
1	A	607	GLN
1	A	617	LYS
1	A	644	PHE
1	A	788	THR
1	A	822	ARG
1	A	875	VAL
2	C	129	GLU
2	C	282	GLU
2	C	298	SER
3	B	98	LEU
3	B	124	LYS
3	B	306	GLU
3	B	868	ASP
3	B	912	PRO
3	B	944	PRO
5	E	124	ARG
5	E	137	GLN
5	E	142	VAL
6	F	43	SER
6	F	76	CYS

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Mol	Chain	Res	Type
7	H	15	TYR
8	K	20	ILE
10	N	6	ARG
10	N	23	THR
10	N	41	LYS
1	Q	80	PRO
1	Q	196	GLY
1	Q	332	ILE
1	Q	423	PRO
1	Q	524	ILE
1	Q	533	ASP
1	Q	583	ASP
1	Q	599	ASP
1	Q	607	GLN
1	Q	614	TRP
1	Q	617	LYS
1	Q	644	PHE
1	Q	788	THR
1	Q	862	HIS
2	G	14	GLU
2	G	67	GLY
2	G	129	GLU
2	G	279	GLU
3	R	868	ASP
3	R	912	PRO
3	R	944	PRO
3	R	979	ILE
3	R	1001	LEU
3	R	1053	SER
5	T	88	GLU
5	T	124	ARG
5	T	142	VAL
6	U	76	CYS
7	V	15	TYR
8	W	20	ILE
8	W	34	ARG
10	Y	6	ARG
1	A	209	LEU
1	A	583	ASP
1	A	686	PRO
2	C	300	VAL
3	B	404	VAL

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Mol	Chain	Res	Type
5	E	125	GLY
6	F	34	LEU
7	H	11	PRO
8	K	54	ASN
9	L	38	VAL
10	N	18	TRP
1	Q	209	LEU
1	Q	369	PRO
1	Q	686	PRO
1	Q	781	PHE
1	Q	875	VAL
2	G	324	GLY
3	R	404	VAL
3	R	477	ALA
3	R	1048	ARG
4	S	73	LEU
4	S	87	GLU
5	T	125	GLY
6	U	60	SER
7	V	11	PRO
1	A	404	GLY
2	C	119	THR
3	B	406	GLY
7	H	10	ASP
11	P	26	CYS
1	Q	404	GLY
2	G	119	THR
2	G	300	VAL
3	R	401	GLY
3	R	780	VAL
3	R	916	PRO
7	V	10	ASP
8	W	62	ILE
1	A	53	GLU
3	B	589	VAL
3	B	657	TYR
3	B	780	VAL
3	B	916	PRO
4	D	238	PRO
1	Q	16	PRO
1	Q	54	PRO
3	R	589	VAL

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Mol	Chain	Res	Type
3	R	657	TYR
3	R	1016	PRO
11	Z	26	CYS
1	A	54	PRO
1	A	372	TRP
1	A	767	PRO
2	C	116	VAL
3	B	76	GLY
3	B	401	GLY
3	B	703	VAL
4	D	119	PRO
1	Q	177	PRO
2	G	116	VAL
3	R	76	GLY
3	R	437	GLN
3	R	703	VAL
3	R	763	VAL
4	S	238	PRO
9	X	38	VAL
1	A	16	PRO
1	A	177	PRO
3	B	578	PRO
3	B	701	PRO
3	B	763	VAL
11	P	40	PRO
1	Q	50	GLY
1	Q	53	GLU
3	R	578	PRO
3	R	775	MET
11	Z	40	PRO
1	A	437	VAL
3	B	43	ILE
3	B	775	MET
1	Q	437	VAL
3	R	406	GLY
4	S	119	PRO
11	P	22	PRO
11	Z	22	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	675/766 (88%)	580 (86%)	95 (14%)	3	13
1	Q	675/766 (88%)	581 (86%)	94 (14%)	3	14
2	C	237/338 (70%)	195 (82%)	42 (18%)	2	8
2	G	237/338 (70%)	195 (82%)	42 (18%)	2	8
3	B	937/965 (97%)	798 (85%)	139 (15%)	3	12
3	R	937/965 (97%)	796 (85%)	141 (15%)	3	11
4	D	241/242 (100%)	221 (92%)	20 (8%)	10	35
4	S	241/242 (100%)	221 (92%)	20 (8%)	10	35
5	E	156/159 (98%)	143 (92%)	13 (8%)	10	35
5	T	156/159 (98%)	141 (90%)	15 (10%)	8	28
6	F	82/106 (77%)	79 (96%)	3 (4%)	30	55
6	U	82/106 (77%)	79 (96%)	3 (4%)	30	55
7	H	67/75 (89%)	54 (81%)	13 (19%)	1	5
7	V	67/75 (89%)	55 (82%)	12 (18%)	2	7
8	K	72/84 (86%)	55 (76%)	17 (24%)	1	2
8	W	72/84 (86%)	56 (78%)	16 (22%)	1	3
9	L	81/81 (100%)	75 (93%)	6 (7%)	13	38
9	X	81/81 (100%)	73 (90%)	8 (10%)	7	26
10	N	58/60 (97%)	50 (86%)	8 (14%)	3	14
10	Y	58/60 (97%)	50 (86%)	8 (14%)	3	14
11	P	39/43 (91%)	33 (85%)	6 (15%)	2	10
11	Z	39/43 (91%)	33 (85%)	6 (15%)	2	10
All	All	5290/5838 (91%)	4563 (86%)	727 (14%)	3	14

All (727) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	ILE
1	A	30	PRO
1	A	48	ARG
1	A	52	ILE
1	A	71	HIS
1	A	75	ILE
1	A	84	VAL
1	A	175	LEU
1	A	176	THR
1	A	179	ASP
1	A	203	ARG
1	A	219	ILE
1	A	232	GLU
1	A	238	LYS
1	A	239	LEU
1	A	253	ILE
1	A	275	THR
1	A	278	ASP
1	A	282	PRO
1	A	287	SER
1	A	297	THR
1	A	298	LEU
1	A	306	GLU
1	A	308	ARG
1	A	312	ASN
1	A	313	LEU
1	A	314	SER
1	A	342	ILE
1	A	346	THR
1	A	349	VAL
1	A	351	GLU
1	A	363	GLN
1	A	366	ILE
1	A	369	PRO
1	A	376	ASN
1	A	378	VAL
1	A	384	ARG
1	A	395	LYS
1	A	410	HIS
1	A	421	ARG
1	A	425	LEU
1	A	427	ARG
1	A	428	ILE

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Mol	Chain	Res	Type
1	A	438	LEU
1	A	439	LYS
1	A	442	THR
1	A	446	ASN
1	A	464	LEU
1	A	471	GLU
1	A	481	LEU
1	A	487	ILE
1	A	488	THR
1	A	500	GLN
1	A	503	ILE
1	A	507	TYR
1	A	518	LYS
1	A	525	LEU
1	A	537	PRO
1	A	546	TYR
1	A	550	GLN
1	A	558	LYS
1	A	559	ASP
1	A	573	ARG
1	A	574	LEU
1	A	578	GLU
1	A	593	LEU
1	A	597	VAL
1	A	608	PRO
1	A	612	LEU
1	A	622	GLU
1	A	633	ARG
1	A	637	ARG
1	A	642	GLN
1	A	656	ASP
1	A	675	LEU
1	A	684	LEU
1	A	687	ILE
1	A	692	LEU
1	A	708	ARG
1	A	714	ILE
1	A	723	ASN
1	A	727	VAL
1	A	755	GLU
1	A	759	ARG
1	A	764	ARG

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Mol	Chain	Res	Type
1	A	777	GLU
1	A	787	ARG
1	A	797	PHE
1	A	823	LEU
1	A	827	LEU
1	A	828	SER
1	A	855	VAL
1	A	858	MET
1	A	868	VAL
1	A	871	ILE
2	C	12	TYR
2	C	36	ILE
2	C	37	LEU
2	C	38	ASN
2	C	43	VAL
2	C	45	ARG
2	C	54	LEU
2	C	57	LYS
2	C	70	ILE
2	C	83	THR
2	C	85	MET
2	C	104	LEU
2	C	107	LEU
2	C	116	VAL
2	C	132	ARG
2	C	133	ASP
2	C	146	TYR
2	C	267	VAL
2	C	275	ASN
2	C	276	ASN
2	C	291	GLU
2	C	310	ILE
2	C	311	ARG
2	C	315	LEU
2	C	318	ASP
2	C	320	MET
2	C	331	ARG
2	C	335	THR
2	C	337	GLU
2	C	344	ARG
2	C	349	VAL
2	C	351	VAL

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Mol	Chain	Res	Type
2	C	360	ARG
2	C	364	GLU
2	C	369	VAL
2	C	370	VAL
2	C	374	ILE
2	C	379	ILE
2	C	380	LYS
2	C	381	LEU
2	C	390	MET
2	C	391	ARG
3	B	5	LEU
3	B	6	THR
3	B	33	ASP
3	B	35	VAL
3	B	38	LYS
3	B	63	ILE
3	B	64	ARG
3	B	65	ILE
3	B	83	MET
3	B	105	ASN
3	B	108	GLU
3	B	118	ASP
3	B	159	ARG
3	B	162	VAL
3	B	163	THR
3	B	171	ARG
3	B	182	ASN
3	B	183	ILE
3	B	193	THR
3	B	201	THR
3	B	203	GLU
3	B	227	MET
3	B	245	ASP
3	B	296	TYR
3	B	313	TYR
3	B	322	VAL
3	B	327	LEU
3	B	332	PRO
3	B	348	ASP
3	B	355	ARG
3	B	361	PHE
3	B	367	TYR

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Mol	Chain	Res	Type
3	B	382	LYS
3	B	391	THR
3	B	394	ILE
3	B	404	VAL
3	B	407	ARG
3	B	418	ASN
3	B	429	VAL
3	B	453	MET
3	B	457	GLU
3	B	458	THR
3	B	469	ASN
3	B	476	ILE
3	B	478	VAL
3	B	484	ILE
3	B	497	VAL
3	B	501	ILE
3	B	529	TYR
3	B	530	TYR
3	B	536	LEU
3	B	551	ASP
3	B	562	PHE
3	B	570	CYS
3	B	577	ARG
3	B	588	LEU
3	B	594	ILE
3	B	603	THR
3	B	606	ASP
3	B	608	VAL
3	B	625	TYR
3	B	628	LEU
3	B	634	THR
3	B	638	THR
3	B	643	TRP
3	B	644	SER
3	B	650	ILE
3	B	655	ILE
3	B	659	GLU
3	B	667	THR
3	B	672	MET
3	B	685	GLN
3	B	686	LEU
3	B	687	ARG

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Mol	Chain	Res	Type
3	B	691	ARG
3	B	702	LEU
3	B	708	LEU
3	B	710	ILE
3	B	714	THR
3	B	727	MET
3	B	739	ILE
3	B	770	GLU
3	B	780	VAL
3	B	783	TYR
3	B	787	GLU
3	B	788	TYR
3	B	789	TYR
3	B	794	ASP
3	B	800	PRO
3	B	814	VAL
3	B	846	ILE
3	B	850	VAL
3	B	852	ILE
3	B	855	THR
3	B	867	ARG
3	B	874	ILE
3	B	890	MET
3	B	891	LEU
3	B	895	VAL
3	B	902	LYS
3	B	905	VAL
3	B	910	LEU
3	B	915	LEU
3	B	926	GLU
3	B	941	ASP
3	B	945	PHE
3	B	946	TYR
3	B	950	ILE
3	B	951	GLU
3	B	957	ILE
3	B	958	LEU
3	B	959	ARG
3	B	967	THR
3	B	975	THR
3	B	982	ARG
3	B	985	PHE

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Mol	Chain	Res	Type
3	B	988	VAL
3	B	991	GLN
3	B	1000	LYS
3	B	1002	HIS
3	B	1004	ARG
3	B	1016	PRO
3	B	1018	GLU
3	B	1026	LEU
3	B	1030	GLU
3	B	1031	MET
3	B	1033	ARG
3	B	1035	CYS
3	B	1039	PHE
3	B	1045	LEU
3	B	1049	LEU
3	B	1054	ASP
3	B	1057	MET
3	B	1080	PRO
3	B	1093	VAL
3	B	1103	GLU
3	B	1111	PRO
3	B	1113	LEU
3	B	1115	LEU
4	D	56	GLU
4	D	57	ILE
4	D	80	GLU
4	D	89	CYS
4	D	113	ASP
4	D	132	LEU
4	D	155	LYS
4	D	161	LEU
4	D	162	SER
4	D	165	ARG
4	D	178	LYS
4	D	190	LEU
4	D	192	ASP
4	D	195	LEU
4	D	201	LEU
4	D	214	ASN
4	D	217	ILE
4	D	250	ILE
4	D	251	ARG

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Mol	Chain	Res	Type
4	D	258	LYS
5	E	4	LEU
5	E	12	ARG
5	E	22	LEU
5	E	30	LEU
5	E	38	ILE
5	E	42	LEU
5	E	51	VAL
5	E	58	ILE
5	E	60	VAL
5	E	85	VAL
5	E	101	LEU
5	E	112	GLN
5	E	174	TRP
6	F	5	TYR
6	F	12	ILE
6	F	54	LYS
7	H	12	ARG
7	H	13	ILE
7	H	15	TYR
7	H	24	ASN
7	H	26	ASP
7	H	42	LEU
7	H	44	TRP
7	H	46	ARG
7	H	62	ILE
7	H	64	ARG
7	H	65	ILE
7	H	72	TYR
7	H	76	VAL
8	K	12	ASP
8	K	15	PHE
8	K	22	LEU
8	K	23	TRP
8	K	39	ARG
8	K	41	LEU
8	K	42	GLN
8	K	52	ASP
8	K	53	ILE
8	K	60	ASP
8	K	61	VAL
8	K	67	GLU

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Mol	Chain	Res	Type
8	K	71	ARG
8	K	73	VAL
8	K	74	LEU
8	K	82	LEU
8	K	90	LEU
9	L	5	ILE
9	L	24	LEU
9	L	44	TYR
9	L	45	GLN
9	L	48	PRO
9	L	57	ILE
10	N	3	ILE
10	N	5	ILE
10	N	10	CYS
10	N	20	SER
10	N	22	ILE
10	N	48	MET
10	N	55	ILE
10	N	59	VAL
11	P	10	TRP
11	P	15	ASP
11	P	21	LEU
11	P	24	VAL
11	P	41	THR
11	P	46	LYS
1	Q	13	ILE
1	Q	30	PRO
1	Q	48	ARG
1	Q	52	ILE
1	Q	71	HIS
1	Q	75	ILE
1	Q	84	VAL
1	Q	175	LEU
1	Q	176	THR
1	Q	179	ASP
1	Q	203	ARG
1	Q	219	ILE
1	Q	232	GLU
1	Q	238	LYS
1	Q	239	LEU
1	Q	253	ILE
1	Q	275	THR

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Mol	Chain	Res	Type
1	Q	278	ASP
1	Q	282	PRO
1	Q	287	SER
1	Q	297	THR
1	Q	298	LEU
1	Q	306	GLU
1	Q	308	ARG
1	Q	312	ASN
1	Q	313	LEU
1	Q	314	SER
1	Q	346	THR
1	Q	349	VAL
1	Q	351	GLU
1	Q	363	GLN
1	Q	366	ILE
1	Q	369	PRO
1	Q	376	ASN
1	Q	378	VAL
1	Q	384	ARG
1	Q	395	LYS
1	Q	410	HIS
1	Q	421	ARG
1	Q	425	LEU
1	Q	427	ARG
1	Q	428	ILE
1	Q	438	LEU
1	Q	439	LYS
1	Q	442	THR
1	Q	446	ASN
1	Q	464	LEU
1	Q	471	GLU
1	Q	481	LEU
1	Q	487	ILE
1	Q	488	THR
1	Q	500	GLN
1	Q	503	ILE
1	Q	507	TYR
1	Q	518	LYS
1	Q	525	LEU
1	Q	537	PRO
1	Q	546	TYR
1	Q	550	GLN

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Mol	Chain	Res	Type
1	Q	558	LYS
1	Q	559	ASP
1	Q	573	ARG
1	Q	574	LEU
1	Q	578	GLU
1	Q	593	LEU
1	Q	597	VAL
1	Q	608	PRO
1	Q	612	LEU
1	Q	622	GLU
1	Q	633	ARG
1	Q	637	ARG
1	Q	642	GLN
1	Q	656	ASP
1	Q	675	LEU
1	Q	684	LEU
1	Q	687	ILE
1	Q	692	LEU
1	Q	705	ASP
1	Q	708	ARG
1	Q	714	ILE
1	Q	723	ASN
1	Q	727	VAL
1	Q	755	GLU
1	Q	759	ARG
1	Q	764	ARG
1	Q	777	GLU
1	Q	787	ARG
1	Q	797	PHE
1	Q	823	LEU
1	Q	828	SER
1	Q	855	VAL
1	Q	858	MET
1	Q	868	VAL
1	Q	871	ILE
2	G	12	TYR
2	G	36	ILE
2	G	37	LEU
2	G	38	ASN
2	G	43	VAL
2	G	45	ARG
2	G	54	LEU

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Mol	Chain	Res	Type
2	G	57	LYS
2	G	70	ILE
2	G	83	THR
2	G	85	MET
2	G	104	LEU
2	G	107	LEU
2	G	116	VAL
2	G	132	ARG
2	G	133	ASP
2	G	146	TYR
2	G	267	VAL
2	G	275	ASN
2	G	276	ASN
2	G	284	PHE
2	G	291	GLU
2	G	310	ILE
2	G	311	ARG
2	G	315	LEU
2	G	318	ASP
2	G	331	ARG
2	G	335	THR
2	G	337	GLU
2	G	344	ARG
2	G	349	VAL
2	G	351	VAL
2	G	360	ARG
2	G	364	GLU
2	G	369	VAL
2	G	370	VAL
2	G	374	ILE
2	G	379	ILE
2	G	380	LYS
2	G	381	LEU
2	G	390	MET
2	G	391	ARG
3	R	5	LEU
3	R	6	THR
3	R	13	VAL
3	R	33	ASP
3	R	35	VAL
3	R	38	LYS
3	R	63	ILE

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Mol	Chain	Res	Type
3	R	64	ARG
3	R	65	ILE
3	R	83	MET
3	R	105	ASN
3	R	108	GLU
3	R	118	ASP
3	R	159	ARG
3	R	162	VAL
3	R	163	THR
3	R	171	ARG
3	R	182	ASN
3	R	183	ILE
3	R	193	THR
3	R	201	THR
3	R	203	GLU
3	R	227	MET
3	R	243	SER
3	R	245	ASP
3	R	296	TYR
3	R	313	TYR
3	R	322	VAL
3	R	327	LEU
3	R	332	PRO
3	R	348	ASP
3	R	355	ARG
3	R	361	PHE
3	R	367	TYR
3	R	382	LYS
3	R	391	THR
3	R	394	ILE
3	R	404	VAL
3	R	407	ARG
3	R	418	ASN
3	R	419	TRP
3	R	429	VAL
3	R	453	MET
3	R	457	GLU
3	R	458	THR
3	R	460	GLU
3	R	476	ILE
3	R	478	VAL
3	R	484	ILE

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Mol	Chain	Res	Type
3	R	497	VAL
3	R	501	ILE
3	R	529	TYR
3	R	530	TYR
3	R	536	LEU
3	R	549	ILE
3	R	551	ASP
3	R	562	PHE
3	R	570	CYS
3	R	577	ARG
3	R	588	LEU
3	R	594	ILE
3	R	603	THR
3	R	606	ASP
3	R	608	VAL
3	R	625	TYR
3	R	628	LEU
3	R	634	THR
3	R	638	THR
3	R	643	TRP
3	R	644	SER
3	R	650	ILE
3	R	655	ILE
3	R	659	GLU
3	R	667	THR
3	R	672	MET
3	R	685	GLN
3	R	686	LEU
3	R	687	ARG
3	R	691	ARG
3	R	702	LEU
3	R	708	LEU
3	R	710	ILE
3	R	714	THR
3	R	727	MET
3	R	739	ILE
3	R	757	LEU
3	R	770	GLU
3	R	780	VAL
3	R	783	TYR
3	R	787	GLU
3	R	788	TYR

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Mol	Chain	Res	Type
3	R	789	TYR
3	R	794	ASP
3	R	800	PRO
3	R	814	VAL
3	R	846	ILE
3	R	850	VAL
3	R	852	ILE
3	R	867	ARG
3	R	874	ILE
3	R	890	MET
3	R	891	LEU
3	R	895	VAL
3	R	902	LYS
3	R	905	VAL
3	R	910	LEU
3	R	915	LEU
3	R	926	GLU
3	R	941	ASP
3	R	945	PHE
3	R	946	TYR
3	R	950	ILE
3	R	951	GLU
3	R	957	ILE
3	R	958	LEU
3	R	967	THR
3	R	975	THR
3	R	982	ARG
3	R	985	PHE
3	R	988	VAL
3	R	991	GLN
3	R	1000	LYS
3	R	1002	HIS
3	R	1004	ARG
3	R	1018	GLU
3	R	1026	LEU
3	R	1030	GLU
3	R	1031	MET
3	R	1033	ARG
3	R	1035	CYS
3	R	1039	PHE
3	R	1045	LEU
3	R	1049	LEU

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Mol	Chain	Res	Type
3	R	1054	ASP
3	R	1057	MET
3	R	1080	PRO
3	R	1093	VAL
3	R	1103	GLU
3	R	1111	PRO
3	R	1113	LEU
3	R	1115	LEU
4	S	56	GLU
4	S	57	ILE
4	S	80	GLU
4	S	89	CYS
4	S	113	ASP
4	S	132	LEU
4	S	155	LYS
4	S	161	LEU
4	S	162	SER
4	S	165	ARG
4	S	178	LYS
4	S	190	LEU
4	S	192	ASP
4	S	195	LEU
4	S	201	LEU
4	S	214	ASN
4	S	217	ILE
4	S	250	ILE
4	S	251	ARG
4	S	258	LYS
5	T	4	LEU
5	T	12	ARG
5	T	18	PHE
5	T	22	LEU
5	T	30	LEU
5	T	33	GLN
5	T	38	ILE
5	T	42	LEU
5	T	51	VAL
5	T	58	ILE
5	T	60	VAL
5	T	85	VAL
5	T	101	LEU
5	T	112	GLN

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Mol	Chain	Res	Type
5	T	174	TRP
6	U	5	TYR
6	U	12	ILE
6	U	54	LYS
7	V	12	ARG
7	V	13	ILE
7	V	24	ASN
7	V	26	ASP
7	V	42	LEU
7	V	44	TRP
7	V	46	ARG
7	V	62	ILE
7	V	64	ARG
7	V	65	ILE
7	V	72	TYR
7	V	76	VAL
8	W	12	ASP
8	W	15	PHE
8	W	23	TRP
8	W	39	ARG
8	W	41	LEU
8	W	42	GLN
8	W	52	ASP
8	W	53	ILE
8	W	60	ASP
8	W	61	VAL
8	W	67	GLU
8	W	71	ARG
8	W	73	VAL
8	W	74	LEU
8	W	82	LEU
8	W	90	LEU
9	X	5	ILE
9	X	24	LEU
9	X	44	TYR
9	X	45	GLN
9	X	48	PRO
9	X	57	ILE
9	X	64	THR
9	X	73	ILE
10	Y	3	ILE
10	Y	5	ILE

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Mol	Chain	Res	Type
10	Y	10	CYS
10	Y	20	SER
10	Y	22	ILE
10	Y	48	MET
10	Y	55	ILE
10	Y	59	VAL
11	Z	10	TRP
11	Z	15	ASP
11	Z	21	LEU
11	Z	24	VAL
11	Z	41	THR
11	Z	46	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (188) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	5	ASN
1	A	56	GLN
1	A	237	HIS
1	A	259	GLN
1	A	270	GLN
1	A	272	HIS
1	A	312	ASN
1	A	331	ASN
1	A	376	ASN
1	A	410	HIS
1	A	420	ASN
1	A	422	GLN
1	A	446	ASN
1	A	465	HIS
1	A	468	GLN
1	A	483	HIS
1	A	485	ASN
1	A	522	GLN
1	A	561	ASN
1	A	563	HIS
1	A	567	ASN
1	A	582	HIS
1	A	606	GLN
1	A	677	GLN
1	A	723	ASN
1	A	742	GLN

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Mol	Chain	Res	Type
1	A	749	GLN
2	C	22	ASN
2	C	34	ASN
2	C	38	ASN
2	C	312	HIS
3	B	26	GLN
3	B	40	GLN
3	B	89	ASN
3	B	182	ASN
3	B	249	GLN
3	B	250	ASN
3	B	258	GLN
3	B	337	HIS
3	B	340	ASN
3	B	368	GLN
3	B	396	HIS
3	B	412	GLN
3	B	418	ASN
3	B	425	HIS
3	B	439	ASN
3	B	446	HIS
3	B	523	ASN
3	B	554	ASN
3	B	564	ASN
3	B	623	ASN
3	B	637	HIS
3	B	639	HIS
3	B	660	HIS
3	B	661	ASN
3	B	669	GLN
3	B	685	GLN
3	B	704	GLN
3	B	715	ASN
3	B	720	ASN
3	B	721	ASN
3	B	882	HIS
3	B	884	GLN
3	B	911	ASN
3	B	913	HIS
3	B	952	GLN
3	B	991	GLN
3	B	995	HIS

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Mol	Chain	Res	Type
3	B	1063	GLN
3	B	1087	ASN
3	B	1102	GLN
4	D	4	ASN
4	D	50	ASN
4	D	181	ASN
4	D	214	ASN
5	E	23	ASN
5	E	33	GLN
5	E	35	GLN
5	E	82	GLN
5	E	109	HIS
5	E	112	GLN
5	E	166	GLN
5	E	177	GLN
6	F	35	GLN
6	F	61	ASN
7	H	20	HIS
7	H	41	GLN
8	K	24	GLN
8	K	25	ASN
8	K	42	GLN
8	K	54	ASN
8	K	55	ASN
10	N	26	ASN
10	N	57	ASN
1	Q	5	ASN
1	Q	56	GLN
1	Q	237	HIS
1	Q	259	GLN
1	Q	270	GLN
1	Q	272	HIS
1	Q	312	ASN
1	Q	331	ASN
1	Q	410	HIS
1	Q	420	ASN
1	Q	422	GLN
1	Q	446	ASN
1	Q	465	HIS
1	Q	468	GLN
1	Q	483	HIS
1	Q	485	ASN

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Mol	Chain	Res	Type
1	Q	522	GLN
1	Q	561	ASN
1	Q	563	HIS
1	Q	565	GLN
1	Q	567	ASN
1	Q	582	HIS
1	Q	606	GLN
1	Q	677	GLN
1	Q	723	ASN
1	Q	742	GLN
1	Q	749	GLN
2	G	22	ASN
2	G	34	ASN
2	G	38	ASN
2	G	312	HIS
3	R	26	GLN
3	R	40	GLN
3	R	89	ASN
3	R	182	ASN
3	R	258	GLN
3	R	337	HIS
3	R	340	ASN
3	R	368	GLN
3	R	396	HIS
3	R	412	GLN
3	R	418	ASN
3	R	425	HIS
3	R	439	ASN
3	R	446	HIS
3	R	469	ASN
3	R	523	ASN
3	R	554	ASN
3	R	564	ASN
3	R	623	ASN
3	R	637	HIS
3	R	639	HIS
3	R	660	HIS
3	R	661	ASN
3	R	666	ASN
3	R	685	GLN
3	R	704	GLN
3	R	715	ASN

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Mol	Chain	Res	Type
3	R	720	ASN
3	R	721	ASN
3	R	882	HIS
3	R	884	GLN
3	R	911	ASN
3	R	913	HIS
3	R	977	GLN
3	R	991	GLN
3	R	995	HIS
3	R	1063	GLN
3	R	1087	ASN
3	R	1102	GLN
4	S	50	ASN
4	S	104	ASN
4	S	181	ASN
4	S	214	ASN
5	T	33	GLN
5	T	35	GLN
5	T	82	GLN
5	T	109	HIS
5	T	112	GLN
5	T	166	GLN
5	T	177	GLN
6	U	35	GLN
6	U	61	ASN
7	V	20	HIS
7	V	41	GLN
8	W	24	GLN
8	W	25	ASN
8	W	42	GLN
8	W	54	ASN
8	W	55	ASN
9	X	75	ASN
10	Y	19	GLN
10	Y	26	ASN
10	Y	57	ASN

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 12 ligands modelled in this entry, 10 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
14	F3S	D	1001	4	0,9,9	-	-	-		
14	F3S	S	1001	4	0,9,9	-	-	-		

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	F3S	D	1001	4	-	-	0/3/3/3
14	F3S	S	1001	4	-	-	0/3/3/3

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.

2 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	D	1001	F3S	4	0
14	S	1001	F3S	3	0

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, 95^{th} 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	776/880 (88%)	0.06	17 (2%) 62 47	23, 75, 132, 186	0
1	Q	776/880 (88%)	0.21	25 (3%) 50 37	29, 87, 145, 202	0
2	C	279/392 (71%)	0.22	8 (2%) 53 39	29, 81, 153, 190	0
2	G	279/392 (71%)	0.31	11 (3%) 43 31	42, 97, 153, 181	0
3	B	1090/1124 (96%)	0.17	35 (3%) 50 37	24, 78, 145, 196	0
3	R	1090/1124 (96%)	0.26	42 (3%) 43 31	36, 84, 149, 196	0
4	D	264/265 (99%)	0.26	3 (1%) 78 65	44, 94, 144, 179	0
4	S	264/265 (99%)	0.39	5 (1%) 66 51	61, 111, 157, 192	0
5	E	176/180 (97%)	0.48	10 (5%) 29 22	39, 112, 189, 202	0
5	T	176/180 (97%)	0.59	12 (6%) 23 19	57, 113, 176, 202	0
6	F	89/113 (78%)	0.89	11 (12%) 8 9	73, 142, 182, 196	0
6	U	89/113 (78%)	0.86	8 (8%) 15 14	93, 141, 184, 201	0
7	H	74/84 (88%)	0.39	2 (2%) 56 42	46, 90, 137, 165	0
7	V	74/84 (88%)	0.40	4 (5%) 31 24	70, 101, 159, 198	0
8	K	82/95 (86%)	0.13	7 (8%) 16 15	30, 72, 118, 154	0
8	W	82/95 (86%)	0.22	4 (4%) 35 26	47, 82, 139, 189	0
9	L	92/92 (100%)	-0.01	2 (2%) 62 47	42, 81, 125, 200	0
9	X	92/92 (100%)	0.34	2 (2%) 62 47	52, 102, 140, 159	0
10	N	64/66 (96%)	0.19	1 (1%) 70 56	60, 90, 124, 174	0
10	Y	64/66 (96%)	0.35	5 (7%) 19 16	61, 98, 145, 185	0
11	P	43/48 (89%)	0.45	0 100 100	48, 101, 137, 154	0
11	Z	43/48 (89%)	0.60	3 (6%) 22 18	64, 100, 144, 180	0
All	All	6058/6678 (90%)	0.25	217 (3%) 46 33	23, 88, 153, 202	0

All (217) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
8	K	51	ILE	5.8
6	U	2	SER	5.0
3	B	625	TYR	4.9
1	A	707	LEU	4.5
6	F	14	TYR	4.5
4	S	33	MET	4.2
3	R	224	VAL	4.2
3	B	245	ASP	4.2
3	R	474	ALA	4.1
3	B	1069	TRP	4.1
6	F	77	PRO	4.1
3	R	245	ASP	4.0
3	R	194	ALA	3.9
7	H	14	HIS	3.7
3	B	1078	VAL	3.7
7	V	82	ILE	3.7
1	A	594	LEU	3.6
3	R	256	LEU	3.6
1	A	270	GLN	3.6
3	B	314	TYR	3.6
5	T	135	VAL	3.5
6	F	4	VAL	3.5
3	R	597	LEU	3.5
3	B	946	TYR	3.4
1	Q	607	GLN	3.3
5	T	52	LYS	3.3
2	G	324	GLY	3.3
7	V	43	PRO	3.2
8	K	61	VAL	3.2
5	E	143	ARG	3.1
8	W	14	HIS	3.1
3	R	1119	VAL	3.1
5	E	127	ILE	3.0
6	F	2	SER	3.0
1	Q	177	PRO	3.0
6	F	33	LEU	3.0
2	G	67	GLY	3.0
1	Q	270	GLN	3.0
3	B	173	LEU	2.9
3	R	433	LEU	2.9
3	R	111	PRO	2.9
8	W	52	ASP	2.9
1	Q	212	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
6	U	5	TYR	2.9
9	X	35	ILE	2.9
5	E	92	VAL	2.9
2	G	395	ARG	2.9
4	D	221	PHE	2.9
3	R	852	ILE	2.9
3	B	600	GLY	2.8
1	A	842	TYR	2.8
3	R	314	TYR	2.8
3	R	434	ALA	2.7
1	Q	80	PRO	2.7
6	U	72	LEU	2.7
2	C	86	THR	2.7
10	N	39	GLY	2.7
2	G	146	TYR	2.7
4	S	190	LEU	2.7
3	R	625	TYR	2.7
6	U	33	LEU	2.7
3	R	789	TYR	2.7
3	R	534	GLY	2.6
1	Q	707	LEU	2.6
1	Q	871	ILE	2.6
5	E	128	PHE	2.6
10	Y	47	ARG	2.6
1	A	763	THR	2.6
3	R	272	ILE	2.6
7	V	14	HIS	2.6
3	R	587	PRO	2.6
1	A	260	LEU	2.6
3	R	905	VAL	2.6
8	K	52	ASP	2.6
3	R	193	THR	2.6
6	F	76	CYS	2.6
2	G	298	SER	2.5
5	T	130	GLU	2.5
2	G	58	GLU	2.5
2	G	277	ILE	2.5
3	B	643	TRP	2.5
5	T	98	PHE	2.5
3	R	198	VAL	2.5
1	Q	82	ILE	2.5
3	R	317	TYR	2.5

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Mol	Chain	Res	Type	RSRZ
3	R	860	LYS	2.5
5	E	135	VAL	2.5
2	G	394	LEU	2.5
3	B	557	HIS	2.5
5	T	10	ILE	2.4
2	C	58	GLU	2.4
3	R	1069	TRP	2.4
4	S	93	TYR	2.4
6	F	5	TYR	2.4
8	K	46	GLY	2.4
9	L	89	GLY	2.4
6	U	89	MET	2.4
4	S	201	LEU	2.4
3	R	557	HIS	2.4
3	R	937	GLY	2.4
6	U	63	VAL	2.4
2	C	137	ALA	2.4
5	E	32	GLN	2.4
8	W	62	ILE	2.4
3	R	609	ARG	2.4
6	F	43	SER	2.4
8	K	14	HIS	2.4
3	B	501	ILE	2.4
3	B	610	GLN	2.4
3	B	894	GLN	2.4
5	E	91	GLN	2.4
1	A	870	ARG	2.4
4	D	217	ILE	2.4
3	B	1026	LEU	2.4
2	G	259	SER	2.4
1	A	266	TRP	2.4
1	Q	586	VAL	2.4
8	W	61	VAL	2.4
3	B	945	PHE	2.3
5	E	172	LEU	2.3
10	Y	21	PHE	2.3
1	Q	595	GLU	2.3
1	Q	649	GLU	2.3
2	C	394	LEU	2.3
1	Q	767	PRO	2.3
3	B	626	VAL	2.3
3	R	283	GLU	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	386	ILE	2.3
9	L	66	LYS	2.3
3	B	831	ALA	2.2
3	R	831	ALA	2.2
3	R	327	LEU	2.2
3	B	255	SER	2.2
1	Q	72	PHE	2.2
1	A	29	THR	2.2
1	Q	543	ARG	2.2
3	B	10	ARG	2.2
3	R	10	ARG	2.2
5	E	60	VAL	2.2
3	B	402	ASN	2.2
1	Q	180	ILE	2.2
3	R	501	ILE	2.2
6	F	6	ILE	2.2
6	F	71	ILE	2.2
10	Y	5	ILE	2.2
3	B	256	LEU	2.2
3	B	433	LEU	2.2
1	Q	10	LYS	2.2
11	Z	10	TRP	2.2
5	T	110	ILE	2.2
6	F	25	ILE	2.2
8	K	62	ILE	2.2
2	G	47	GLU	2.2
3	B	778	ALA	2.2
4	S	143	ALA	2.2
1	Q	872	PHE	2.2
1	A	878	TRP	2.2
3	R	788	TYR	2.2
5	E	153	VAL	2.2
6	U	4	VAL	2.2
11	Z	45	VAL	2.2
2	C	48	ILE	2.2
3	B	192	SER	2.2
5	T	179	LYS	2.2
8	K	40	ALA	2.2
10	Y	64	ARG	2.2
7	V	20	HIS	2.2
5	T	153	VAL	2.1
7	H	17	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
3	R	326	TYR	2.1
3	R	610	GLN	2.1
1	A	4	LYS	2.1
6	U	18	LYS	2.1
1	A	608	PRO	2.1
1	Q	310	ARG	2.1
3	B	1035	CYS	2.1
1	Q	218	THR	2.1
3	R	49	ILE	2.1
3	B	1049	LEU	2.1
3	B	82	PRO	2.1
1	Q	206	TRP	2.1
5	T	92	VAL	2.1
3	B	286	ILE	2.1
5	T	117	THR	2.1
3	B	1003	ALA	2.1
1	Q	833	GLU	2.1
3	R	192	SER	2.1
1	A	450	CYS	2.1
1	Q	529	ASP	2.1
4	D	190	LEU	2.1
9	X	3	ILE	2.1
1	Q	842	TYR	2.1
3	R	475	GLN	2.1
3	R	378	LYS	2.1
3	R	935	LEU	2.1
5	T	136	ILE	2.1
1	A	210	THR	2.1
2	C	59	TYR	2.1
3	B	317	TYR	2.1
3	R	436	GLY	2.1
5	T	123	VAL	2.0
11	Z	34	ILE	2.0
2	C	12	TYR	2.0
2	C	274	THR	2.0
3	B	193	THR	2.0
3	B	1068	GLY	2.0
3	B	964	PRO	2.0
3	B	1119	VAL	2.0
1	A	265	LEU	2.0
2	G	322	ARG	2.0
1	Q	808	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
1	A	50	GLY	2.0
3	B	779	GLY	2.0
3	R	280	GLN	2.0
3	R	854	GLU	2.0
1	Q	94	LEU	2.0
10	Y	22	ILE	2.0

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

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, 95^{th} 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(Å^2)	Q<0.9
13	MG	A	1003	1/1	0.85	0.17	57,57,57,57	0
13	MG	Q	1003	1/1	0.96	0.13	60,60,60,60	0
12	ZN	B	2001	1/1	0.98	0.05	91,91,91,91	0
12	ZN	R	2001	1/1	0.98	0.03	101,101,101,101	0
14	F3S	D	1001	7/7	0.98	0.05	79,80,80,80	0
14	F3S	S	1001	7/7	0.98	0.05	111,111,112,113	0
12	ZN	Z	1001	1/1	0.99	0.08	106,106,106,106	0
12	ZN	P	1001	1/1	0.99	0.06	103,103,103,103	0
12	ZN	Q	1002	1/1	0.99	0.03	89,89,89,89	0
12	ZN	A	1002	1/1	0.99	0.03	87,87,87,87	0
12	ZN	Y	1001	1/1	0.99	0.02	93,93,93,93	0
12	ZN	N	1001	1/1	1.00	0.02	93,93,93,93	0

6.5 Other polymers (i)

There are no such residues in this entry.