Full wwPDB EM Validation Report

Jun 29, 2025 – 09:57 am BST

PDB ID	:	7QXW / pdb_00007qxw
EMDB ID	:	EMD-14204
Title	:	Proteasome-ZFAND5 Complex Z+D state
Authors	:	Zhu, Y.; Lu, Y.
Deposited on	:	2022-01-27
Resolution	:	4.10 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

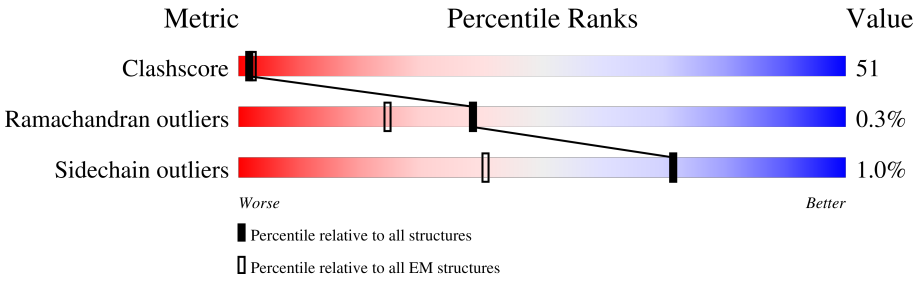
EMDB validation analysis	:	0.0.1.dev118
Mogul	:	1.8.4, CSD as541be (2020)
MolProbity	:	4-5-2 with Phenix2.0rc1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.44

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 4.10 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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

Mol	Chain	Length	Quality of chain
1	U	953	36% 28% 57% · 15%
2	V	533	33% 25% 65% 10%
3	W	456	20% 29% 70% ·
4	X	422	54% 38% 52% 10%
5	Y	389	24% 28% 67% · ·
6	Z	324	15% 26% 62% 12%
7	a	376	30% 32% 67% ·
8	b	377	27% 15% 34% · 49%

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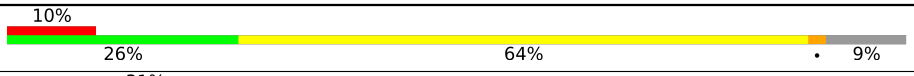
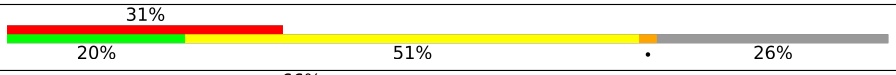
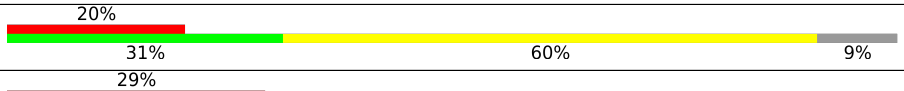
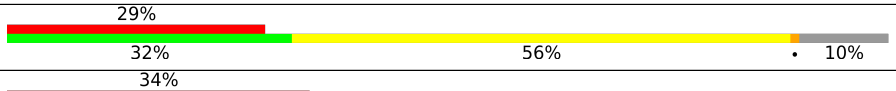
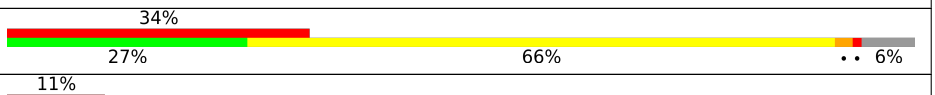
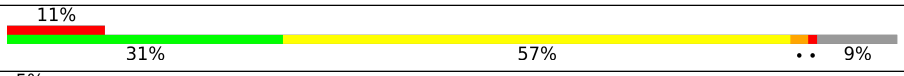
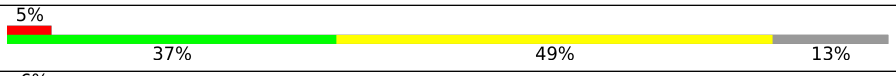
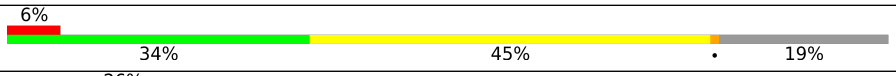
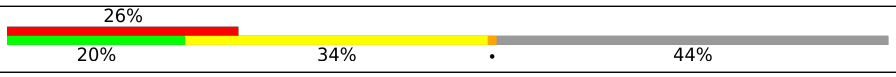
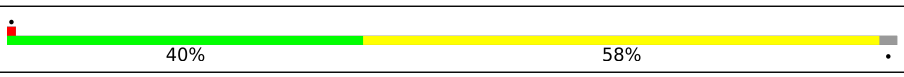
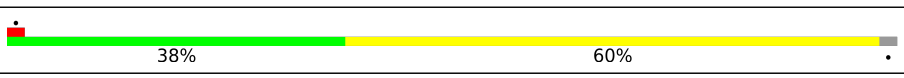
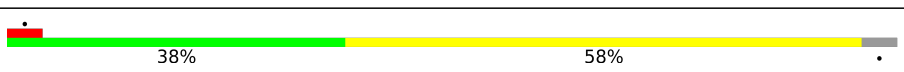
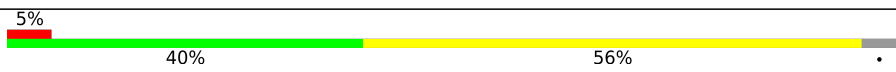
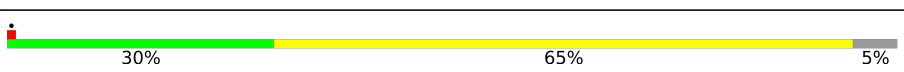
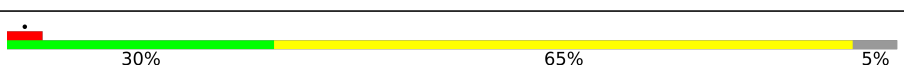
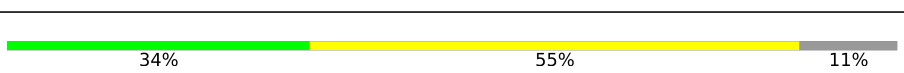
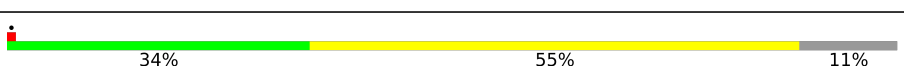
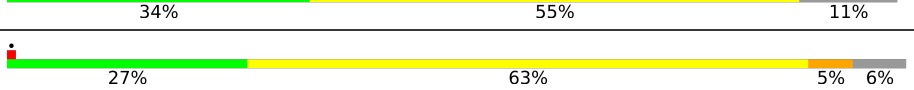
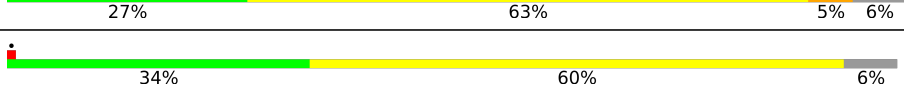
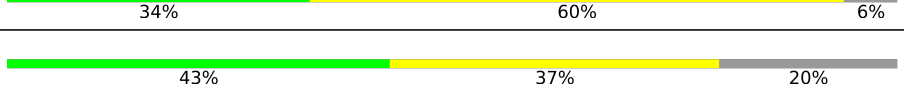
Mol	Chain	Length	Quality of chain
9	c	309	
10	d	349	
11	f	908	
12	A	433	
13	B	432	
14	C	398	
15	D	418	
16	E	403	
17	F	439	
18	e	70	
19	G	245	
19	g	245	
20	H	233	
20	h	233	
21	I	260	
21	i	260	
22	J	247	
22	j	247	
23	K	240	
23	k	240	
24	L	268	
24	l	268	
25	M	254	
25	m	254	
26	N	238	

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Mol	Chain	Length	Quality of chain
26	n	238	41% 39% 20%
27	O	276	41% 39% 20%
27	o	276	39% 41% 20%
28	P	204	53% 47%
28	p	204	53% 47%
29	Q	201	40% 58%
29	q	201	40% 58%
30	R	262	41% 35% 23%
30	r	262	41% 35% 23%
31	S	240	44% 45% 11%
31	s	240	44% 45% 11%
32	T	263	43% 38% 18%
32	t	263	44% 38% 18%
33	v	213	8% 10% 13% 6% 71%

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
35	ATP	A	501	-	-	X	-
37	ADP	B	501	-	-	X	-
37	ADP	E	401	-	-	X	-

2 Entry composition

There are 37 unique types of molecules in this entry. The entry contains 103867 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called 26S proteasome non-ATPase regulatory subunit 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	U	812	Total	C	N	O	S	0	0
			6334	4023	1078	1189	44		

- Molecule 2 is a protein called 26S proteasome non-ATPase regulatory subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	V	480	Total	C	N	O	S	0	0
			3852	2444	684	710	14		

- Molecule 3 is a protein called 26S proteasome non-ATPase regulatory subunit 12.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	W	456	Total	C	N	O	S	0	0
			3703	2339	635	704	25		

- Molecule 4 is a protein called 26S proteasome non-ATPase regulatory subunit 11.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	X	380	Total	C	N	O	S	0	0
			3009	1918	509	570	12		

- Molecule 5 is a protein called 26S proteasome non-ATPase regulatory subunit 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	Y	378	Total	C	N	O	S	0	0
			3115	1987	533	578	17		

- Molecule 6 is a protein called 26S proteasome non-ATPase regulatory subunit 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	Z	286	Total	C	N	O	S	0	0
			2281	1457	392	427	5		

- Molecule 7 is a protein called 26S proteasome non-ATPase regulatory subunit 13.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	a	373	Total	C	N	O	S	0	0
			2995	1911	510	559	15		

- Molecule 8 is a protein called 26S proteasome non-ATPase regulatory subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	b	191	Total	C	N	O	S	0	0
			1458	910	261	279	8		

- Molecule 9 is a protein called 26S proteasome non-ATPase regulatory subunit 14.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	c	282	Total	C	N	O	S	0	0
			2232	1414	384	415	19		

- Molecule 10 is a protein called 26S proteasome non-ATPase regulatory subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	d	257	Total	C	N	O	S	0	0
			2116	1371	346	390	9		

- Molecule 11 is a protein called 26S proteasome non-ATPase regulatory subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	f	889	Total	C	N	O	S	0	0
			6866	4315	1174	1331	46		

- Molecule 12 is a protein called 26S protease regulatory subunit 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	A	393	Total	C	N	O	S	0	0
			3067	1930	539	581	17		

- Molecule 13 is a protein called 26S proteasome regulatory subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	B	387	Total	C	N	O	S	0	0
			3027	1907	515	590	15		

- Molecule 14 is a protein called Isoform 2 of 26S proteasome regulatory subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	C	376	Total	C	N	O	S	0	0
			2936	1846	531	544	15		

- Molecule 15 is a protein called 26S protease regulatory subunit 6B.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	D	380	Total	C	N	O	S	0	0
			3039	1923	524	579	13		

- Molecule 16 is a protein called 26S proteasome regulatory subunit 10B.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	E	351	Total	C	N	O	S	0	0
			2773	1745	491	521	16		

- Molecule 17 is a protein called 26S protease regulatory subunit 6A.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	F	354	Total	C	N	O	S	0	0
			2763	1745	476	527	15		

- Molecule 18 is a protein called 26S proteasome complex subunit SEM1.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	e	39	Total	C	N	O	S	0	0
			327	197	54	74	2		

- Molecule 19 is a protein called Proteasome subunit alpha type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	G	240	Total	C	N	O	S	0	0
			1826	1160	305	348	13		
19	g	240	Total	C	N	O	S	0	0
			1826	1160	305	348	13		

- Molecule 20 is a protein called Proteasome subunit alpha type-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	H	232	Total	C	N	O	S	0	0
			1708	1081	289	333	5		
20	h	232	Total	C	N	O	S	0	0
			1708	1081	289	333	5		

- Molecule 21 is a protein called Proteasome subunit alpha type-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	I	250	Total	C	N	O	S	0	0
			1912	1204	329	371	8		
21	i	250	Total	C	N	O	S	0	0
			1912	1204	329	371	8		

- Molecule 22 is a protein called Proteasome subunit alpha type-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	J	239	Total	C	N	O	S	0	0
			1704	1056	308	335	5		
22	j	239	Total	C	N	O	S	0	0
			1704	1056	308	335	5		

- Molecule 23 is a protein called Proteasome subunit alpha type-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	K	228	Total	C	N	O	S	0	0
			1722	1080	284	348	10		
23	k	228	Total	C	N	O	S	0	0
			1722	1080	284	348	10		

- Molecule 24 is a protein called Isoform Long of Proteasome subunit alpha type-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	L	238	Total	C	N	O	S	0	0
			1850	1159	334	346	11		
24	l	238	Total	C	N	O	S	0	0
			1850	1159	334	346	11		

- Molecule 25 is a protein called Proteasome subunit alpha type-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	M	240	Total	C	N	O	S	0	0
			1856	1178	314	353	11		
25	m	240	Total	C	N	O	S	0	0
			1856	1178	314	353	11		

- Molecule 26 is a protein called Proteasome subunit beta type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	N	191	Total	C	N	O	S	0	0
			1430	893	245	280	12		
26	n	191	Total	C	N	O	S	0	0
			1430	893	245	280	12		

- Molecule 27 is a protein called Proteasome subunit beta type-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	O	220	Total	C	N	O	S	0	0
			1643	1033	280	318	12		
27	o	220	Total	C	N	O	S	0	0
			1643	1033	280	318	12		

- Molecule 28 is a protein called Proteasome subunit beta type-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	P	204	Total	C	N	O	S	0	0
			1585	1010	262	294	19		
28	p	204	Total	C	N	O	S	0	0
			1585	1010	262	294	19		

- Molecule 29 is a protein called Proteasome subunit beta type-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	Q	199	Total	C	N	O	S	0	0
			1570	1006	265	290	9		
29	q	199	Total	C	N	O	S	0	0
			1570	1006	265	290	9		

- Molecule 30 is a protein called Proteasome subunit beta type-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	R	201	Total	C	N	O	S	0	0
			1548	974	273	292	9		
30	r	201	Total	C	N	O	S	0	0
			1548	974	273	292	9		

- Molecule 31 is a protein called Proteasome subunit beta type-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	S	213	Total	C	N	O	S	0	0
			1641	1036	282	313	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
31	s	213	Total	C	N	O	S	0	0
			1641	1036	282	313	10		

- Molecule 32 is a protein called Proteasome subunit beta type-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	T	215	Total	C	N	O	S	0	0
			1667	1052	285	318	12		
32	t	215	Total	C	N	O	S	0	0
			1667	1052	285	318	12		

- Molecule 33 is a protein called AN1-type zinc finger protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	v	62	Total	C	N	O	S	0	0
			499	311	96	85	7		

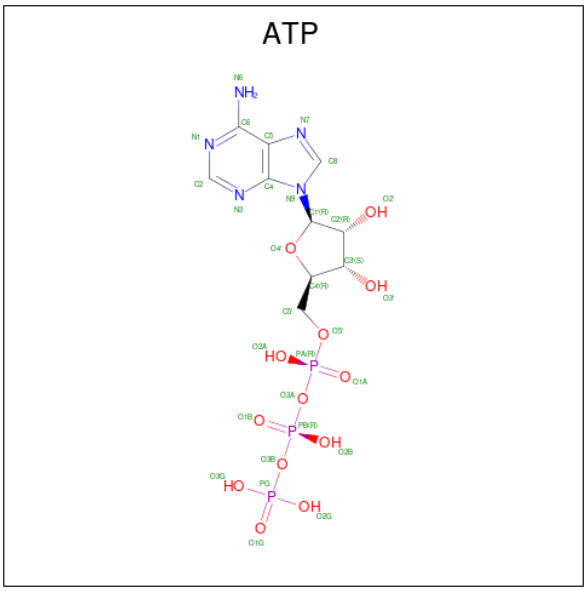
There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
v	66	ILE	VAL	conflict	UNP O76080
v	70	GLU	ASP	conflict	UNP O76080
v	71	ALA	THR	conflict	UNP O76080

- Molecule 34 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
34	c	1	Total	Zn	0
			1	1	

- Molecule 35 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$) (labeled as "Ligand of Interest" by depositor).

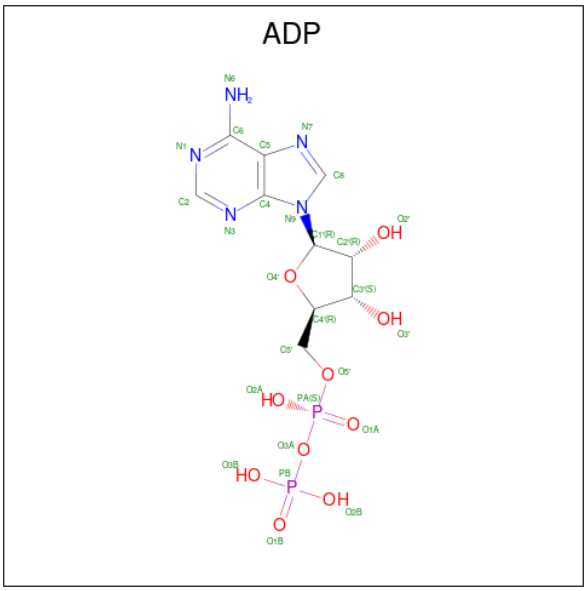


Mol	Chain	Residues	Atoms					AltConf
35	A	1	Total	C	N	O	P	0
			31	10	5	13	3	
35	D	1	Total	C	N	O	P	0
			31	10	5	13	3	
35	F	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 36 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
36	A	1	Total	Mg	0
			1	1	
36	D	1	Total	Mg	0
			1	1	
36	F	1	Total	Mg	0
			1	1	

- Molecule 37 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$) (labeled as "Ligand of Interest" by depositor).

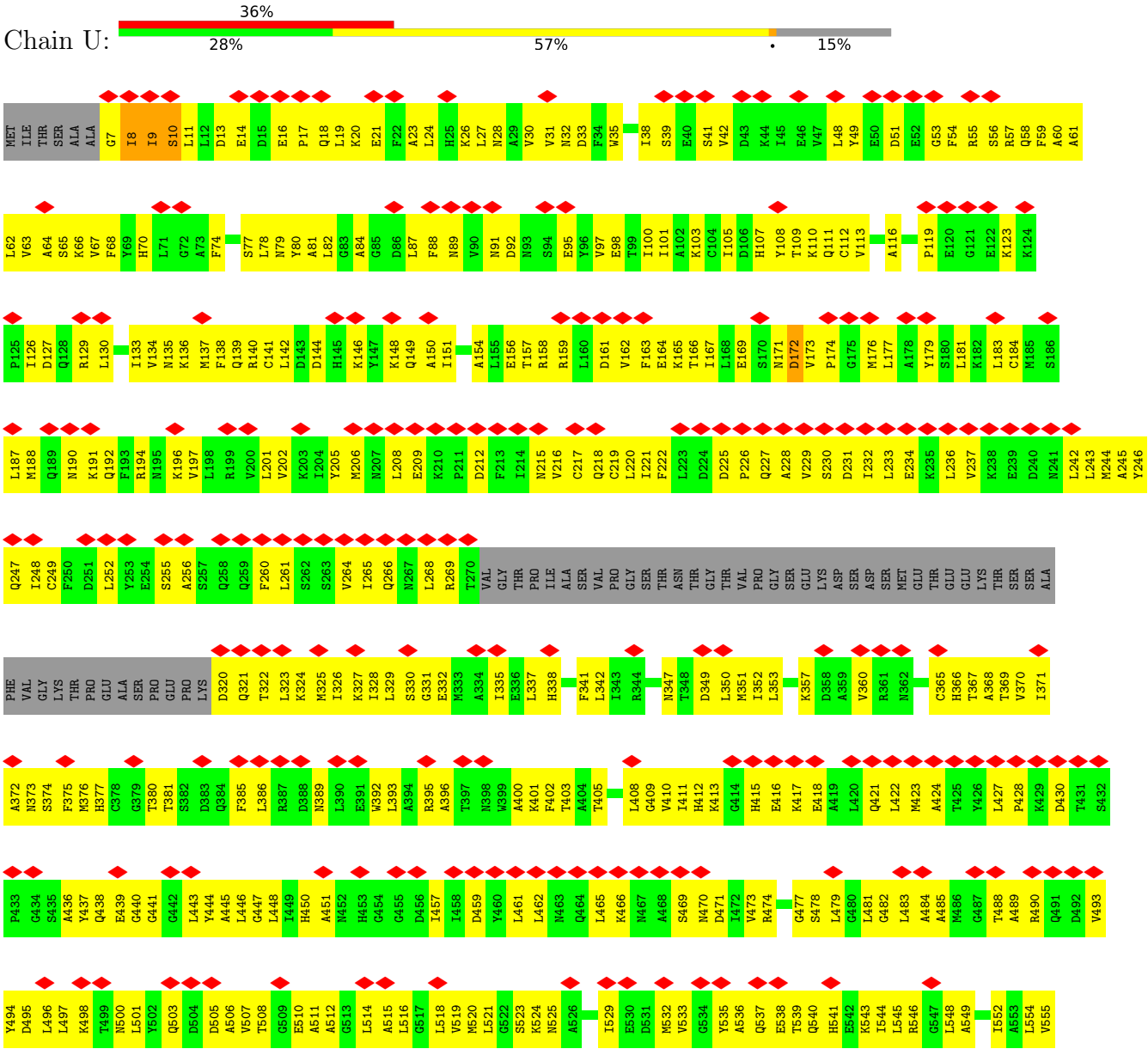


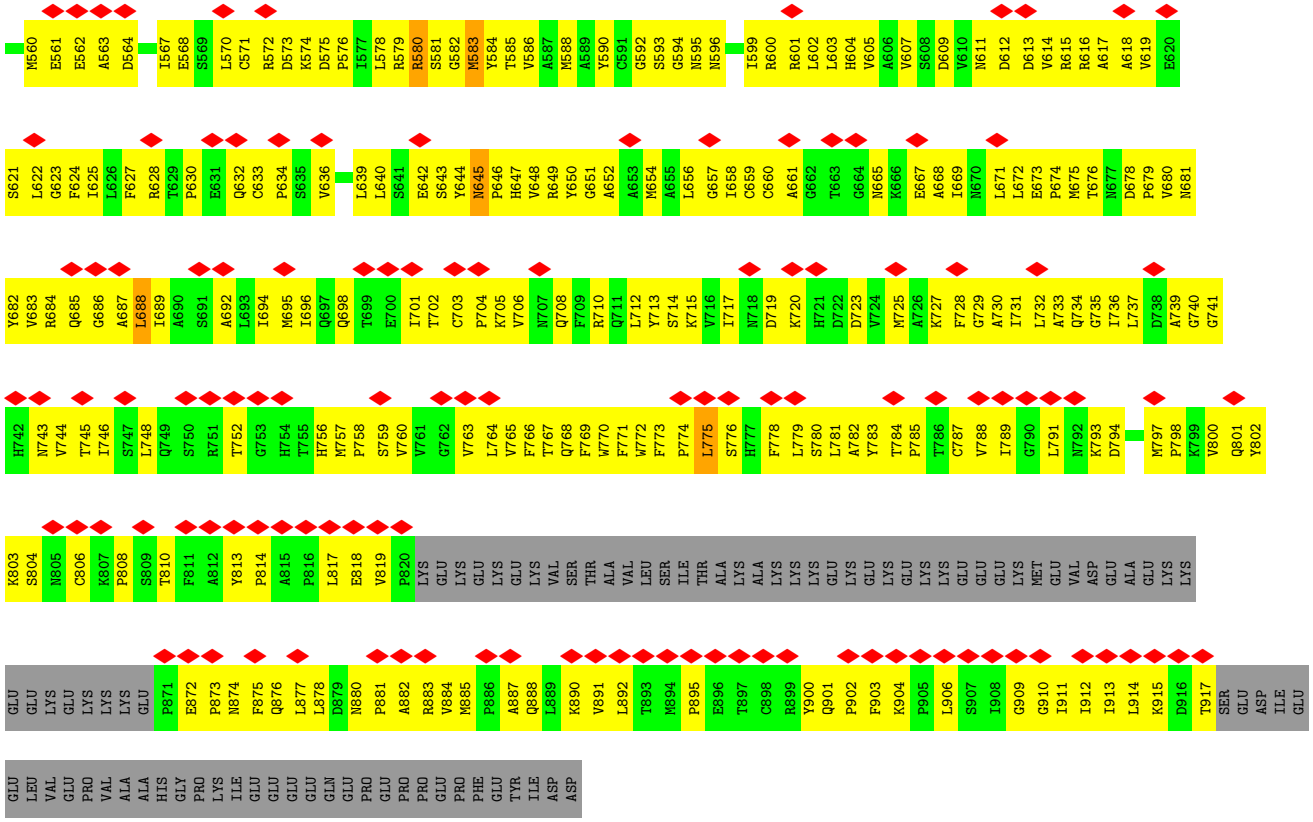
Mol	Chain	Residues	Atoms					AltConf
37	B	1	Total	C	N	O	P	0
			27	10	5	10	2	
37	E	1	Total	C	N	O	P	0
			27	10	5	10	2	

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 atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

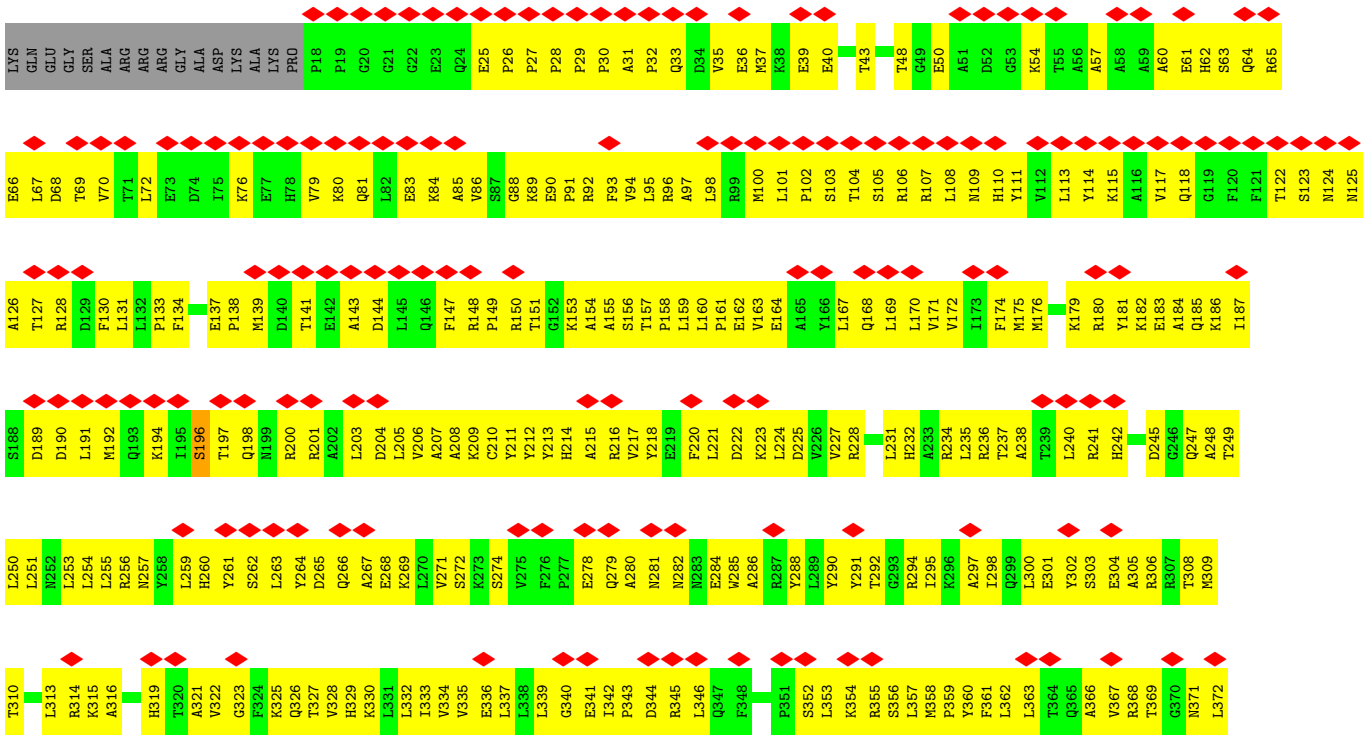
• Molecule 1: 26S proteasome non-ATPase regulatory subunit 1

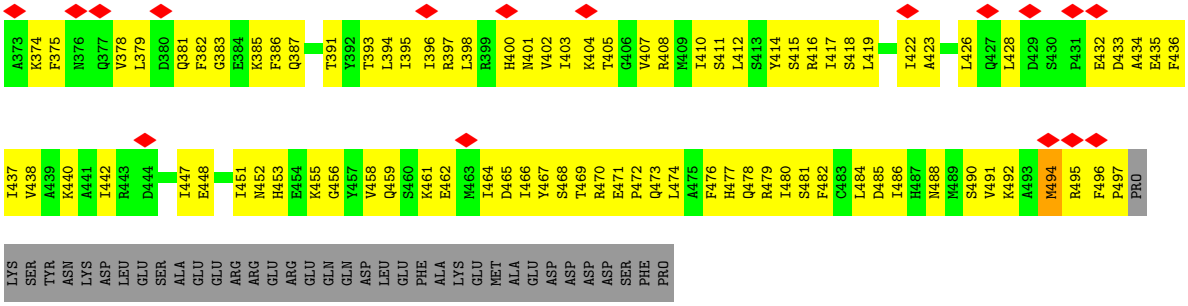




• Molecule 2: 26S proteasome non-ATPase regulatory subunit 3

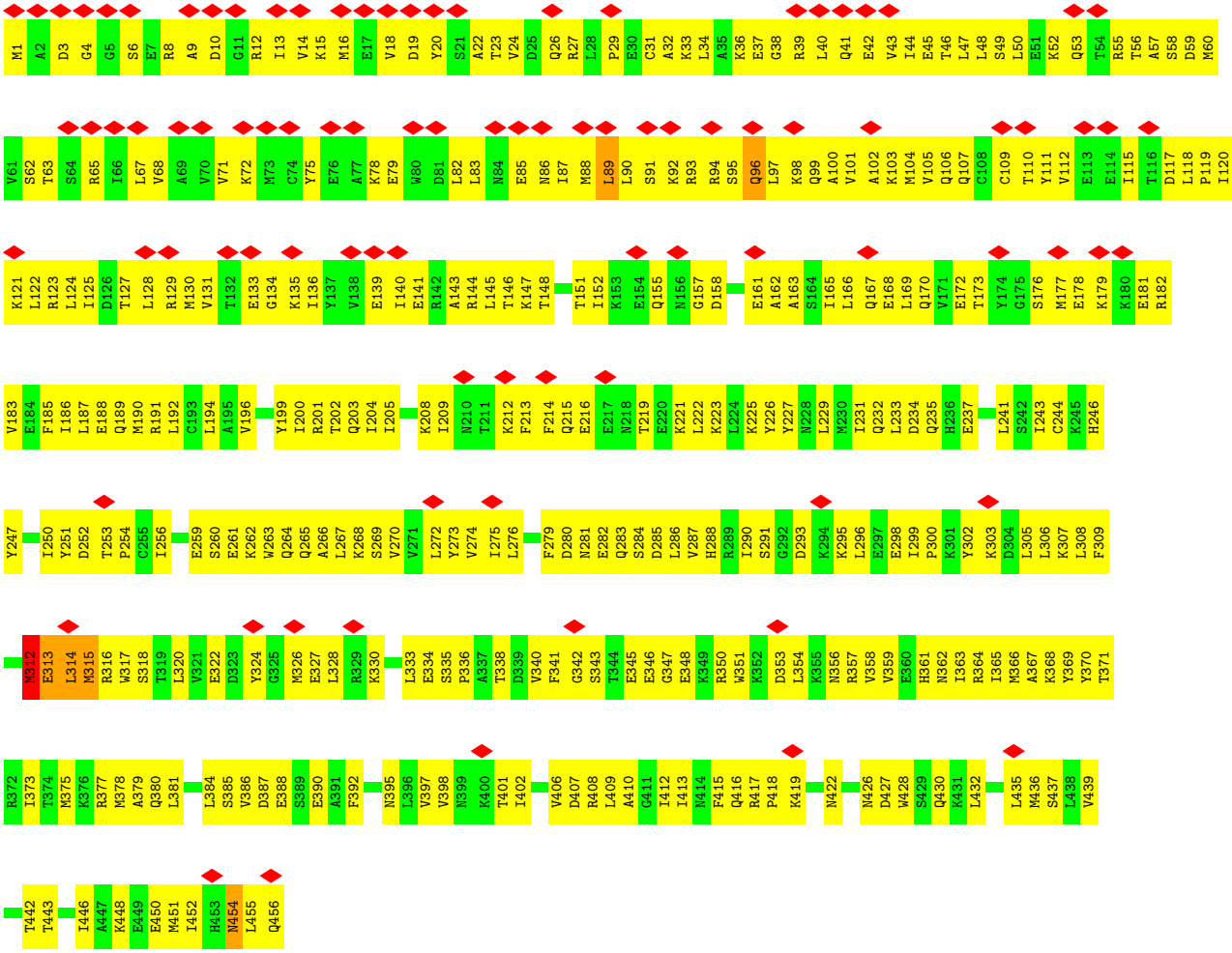
Chain V:





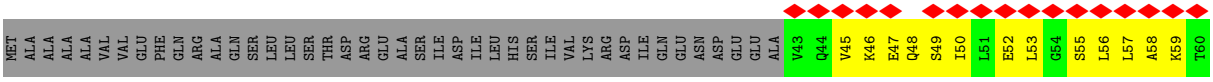
• Molecule 3: 26S proteasome non-ATPase regulatory subunit 12

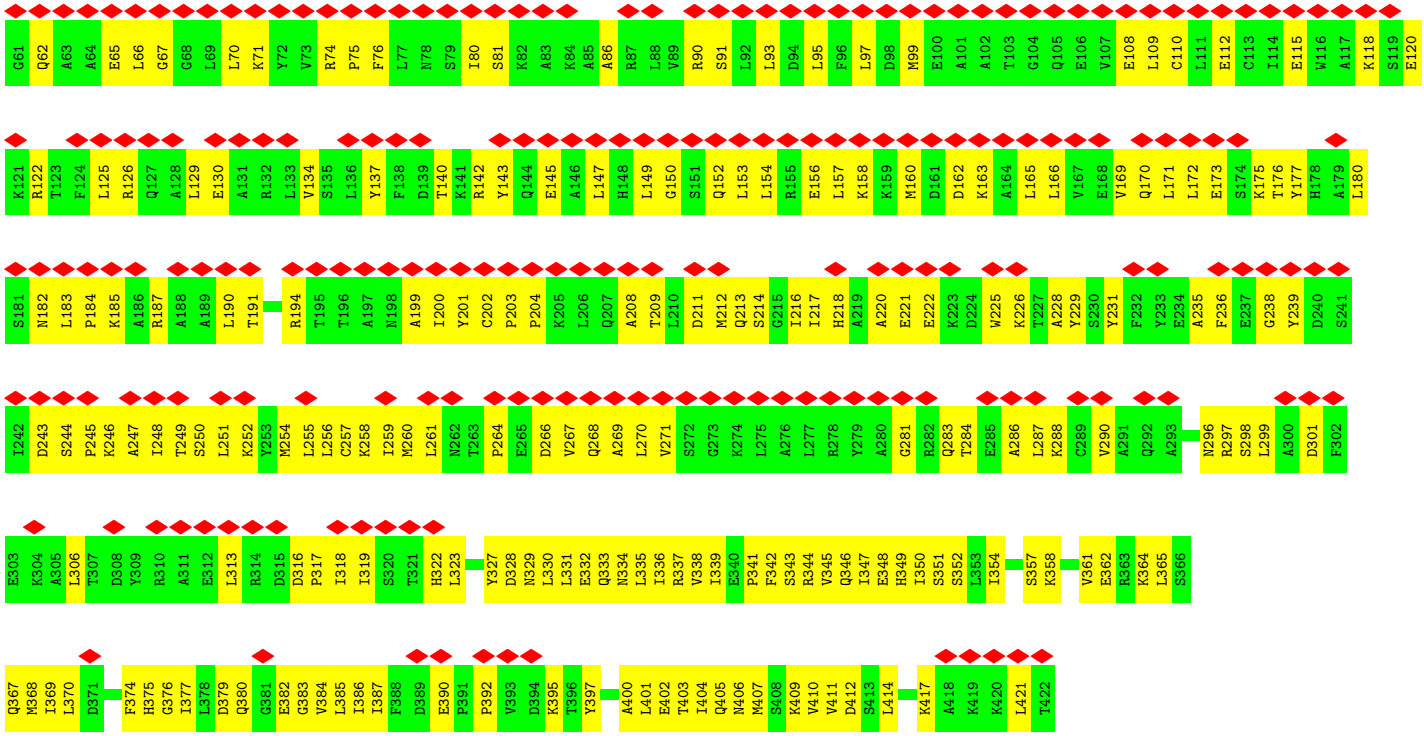
Chain W:



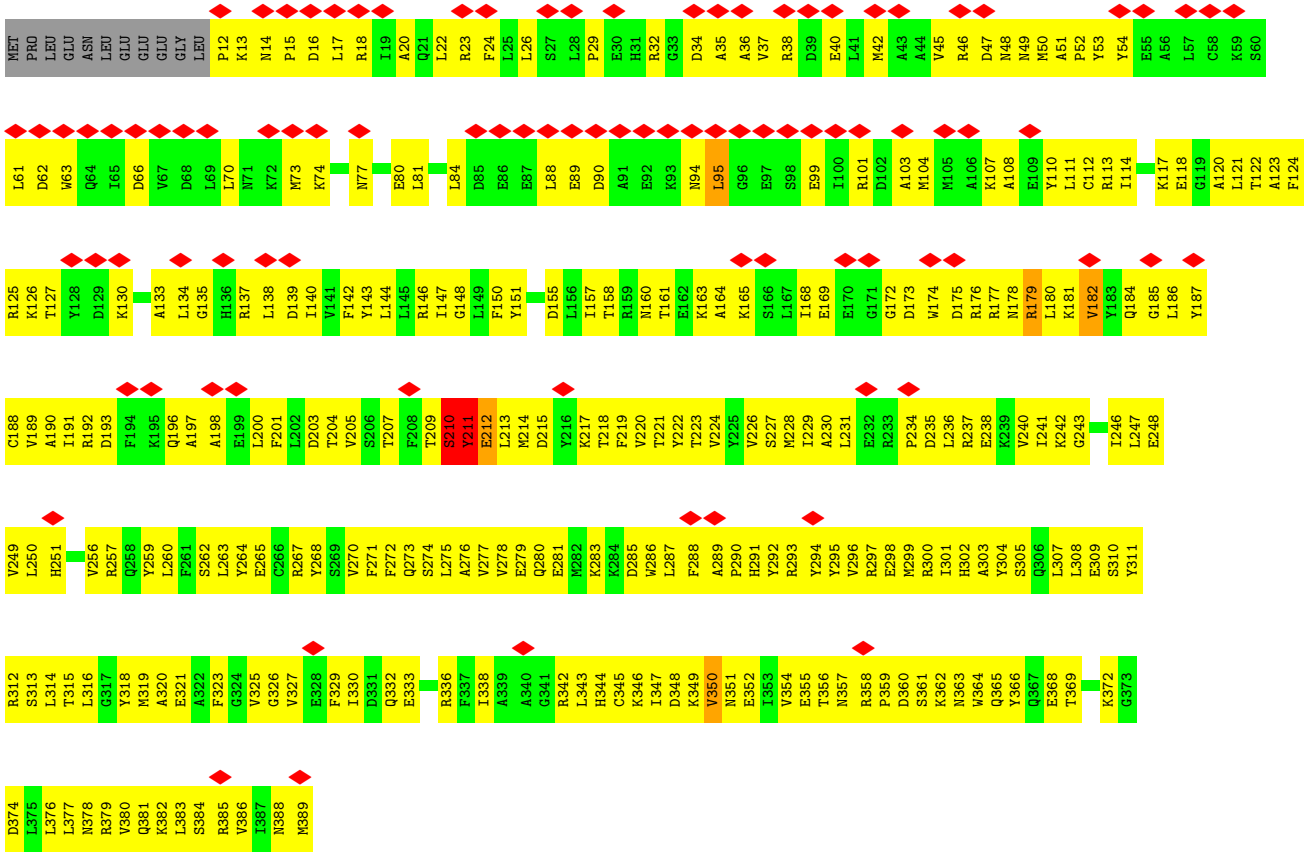
• Molecule 4: 26S proteasome non-ATPase regulatory subunit 11

Chain X:



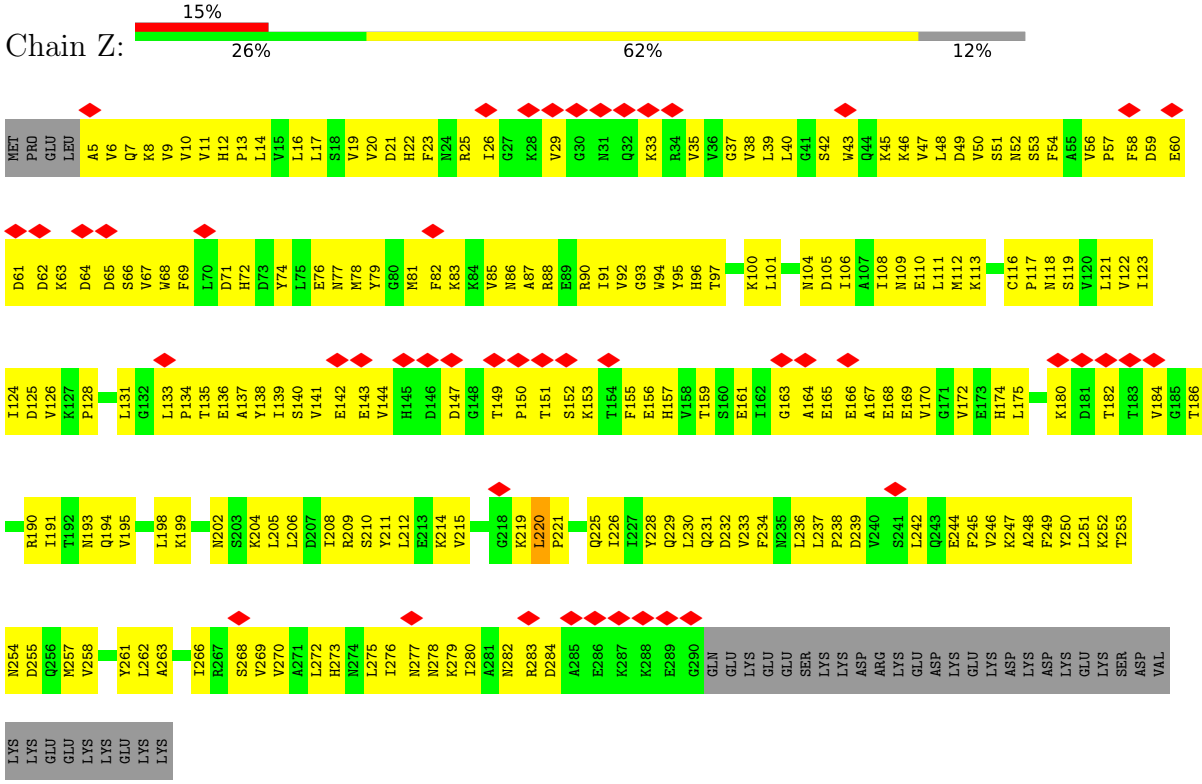


• Molecule 5: 26S proteasome non-ATPase regulatory subunit 6



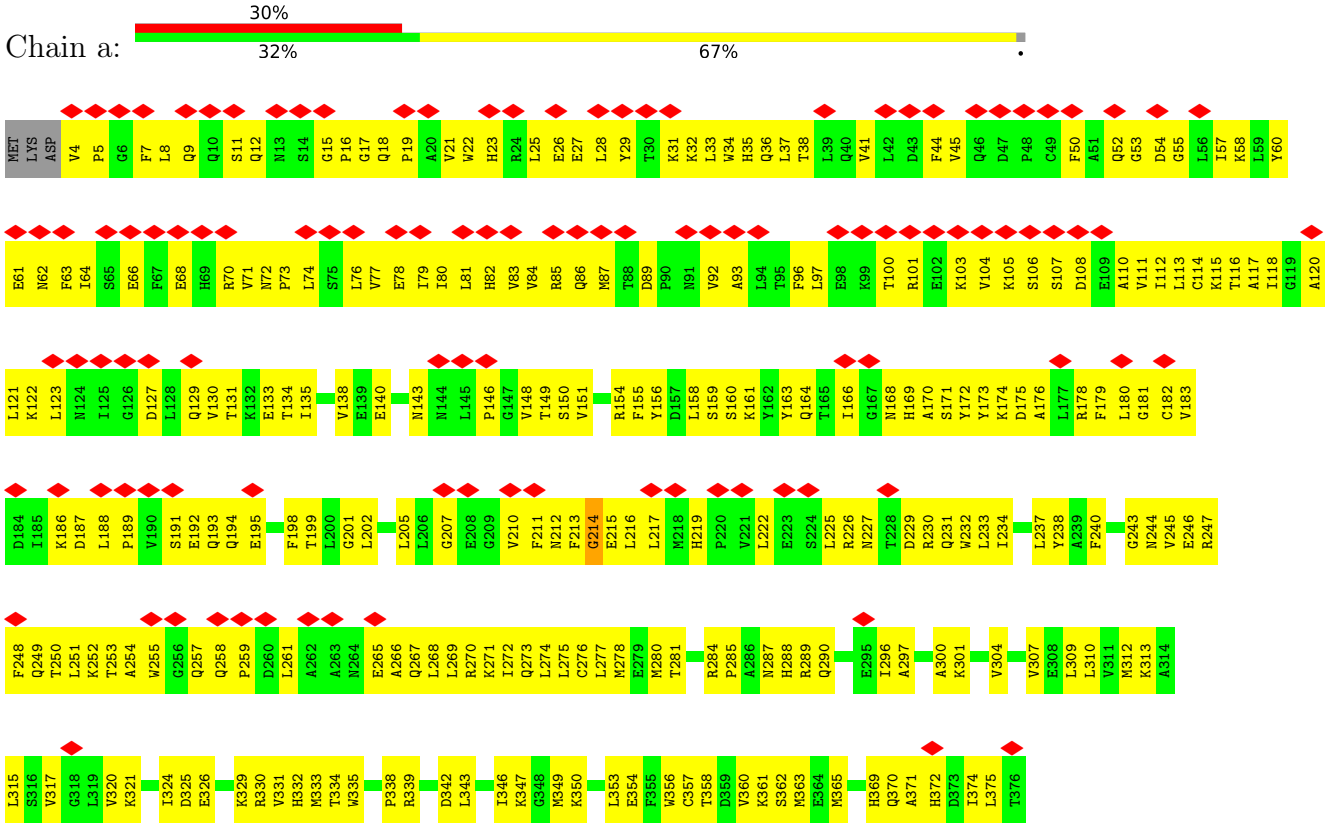
• Molecule 6: 26S proteasome non-ATPase regulatory subunit 7

Chain Z:



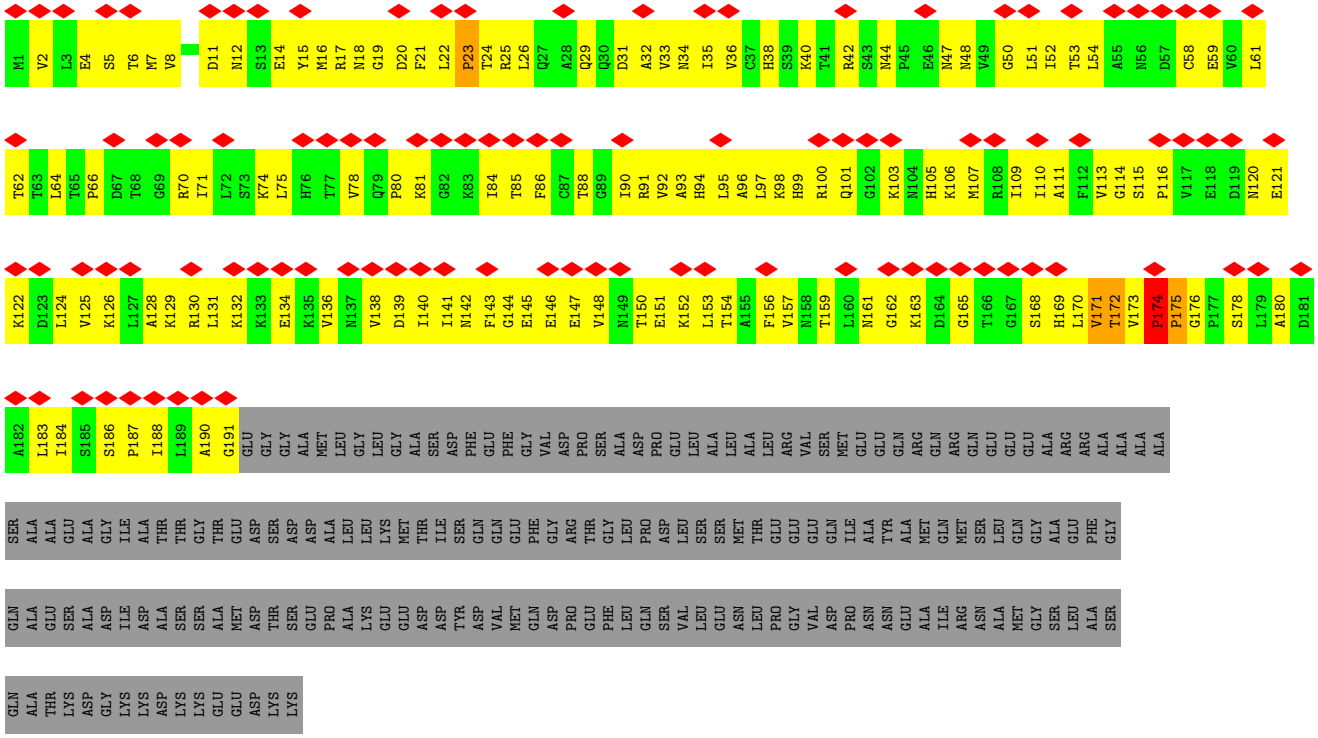
• Molecule 7: 26S proteasome non-ATPase regulatory subunit 13

Chain a:



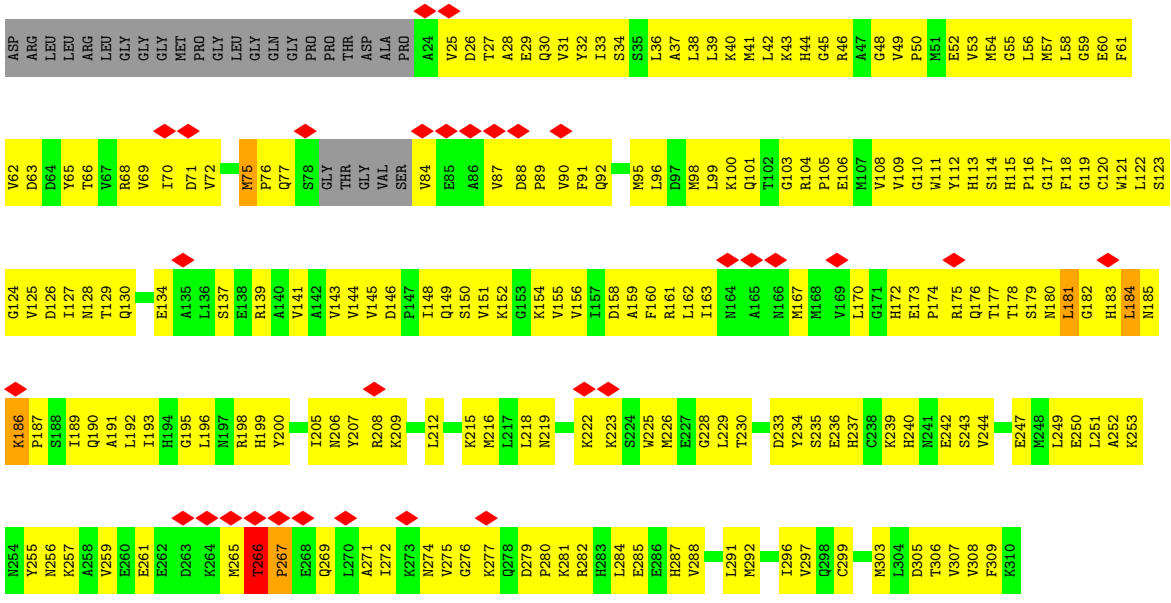
• Molecule 8: 26S proteasome non-ATPase regulatory subunit 4

Chain b:



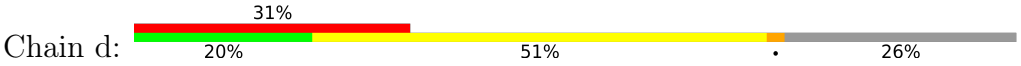
• Molecule 9: 26S proteasome non-ATPase regulatory subunit 14

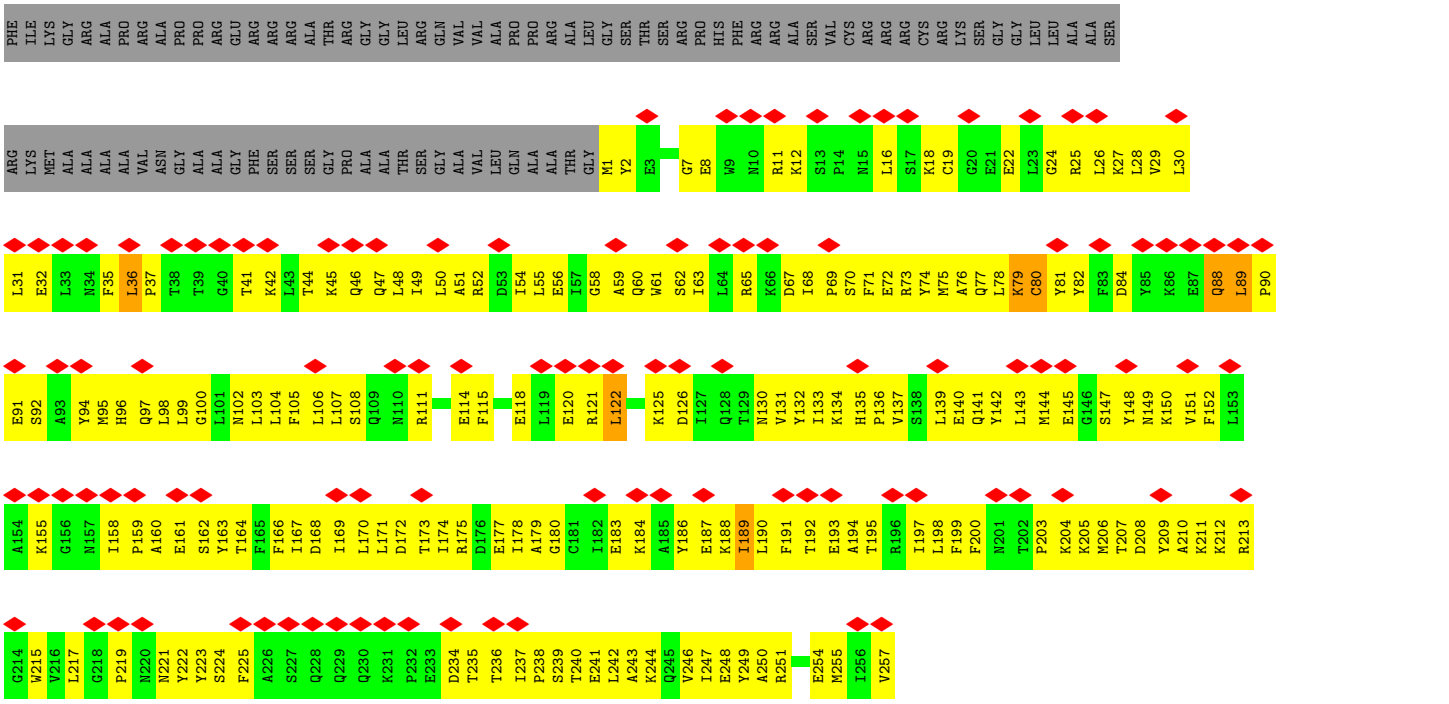
Chain c:



• Molecule 10: 26S proteasome non-ATPase regulatory subunit 8

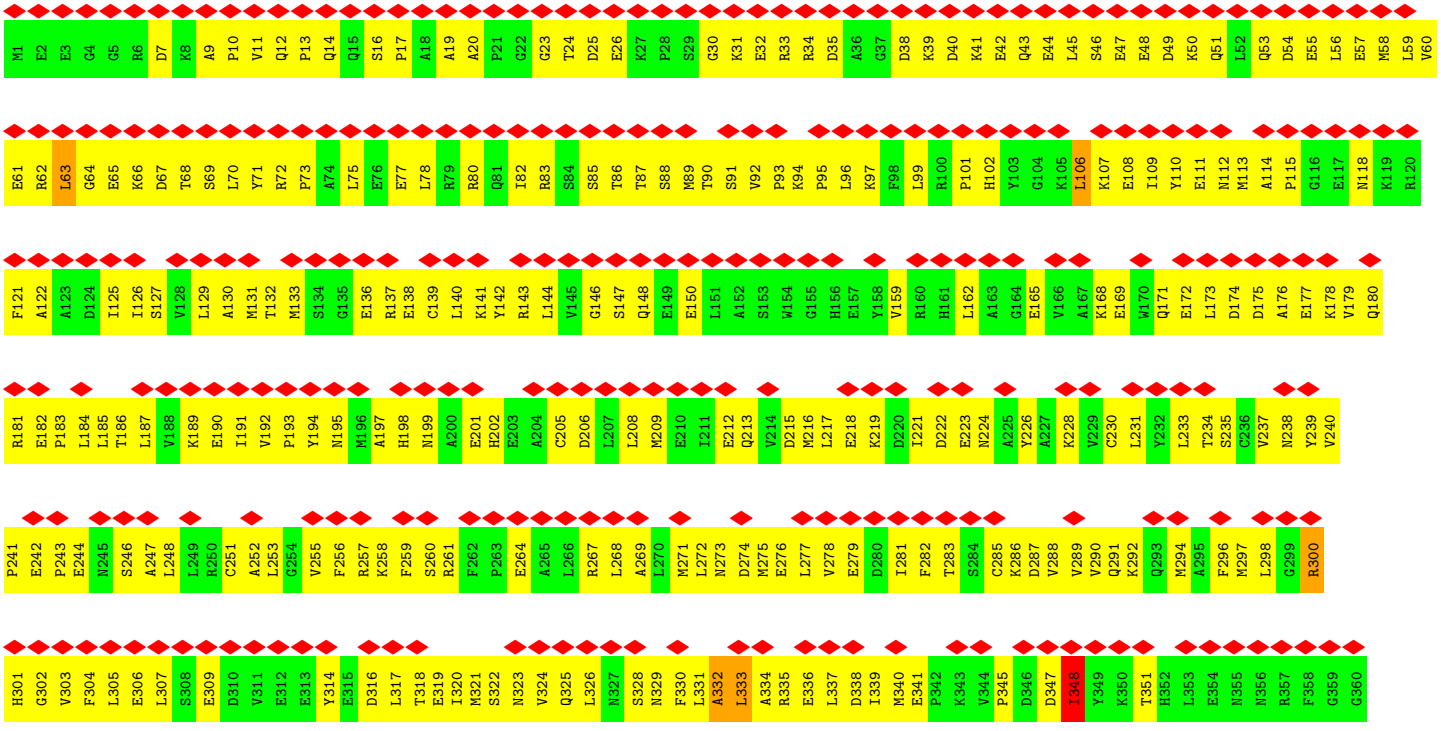
Chain d:

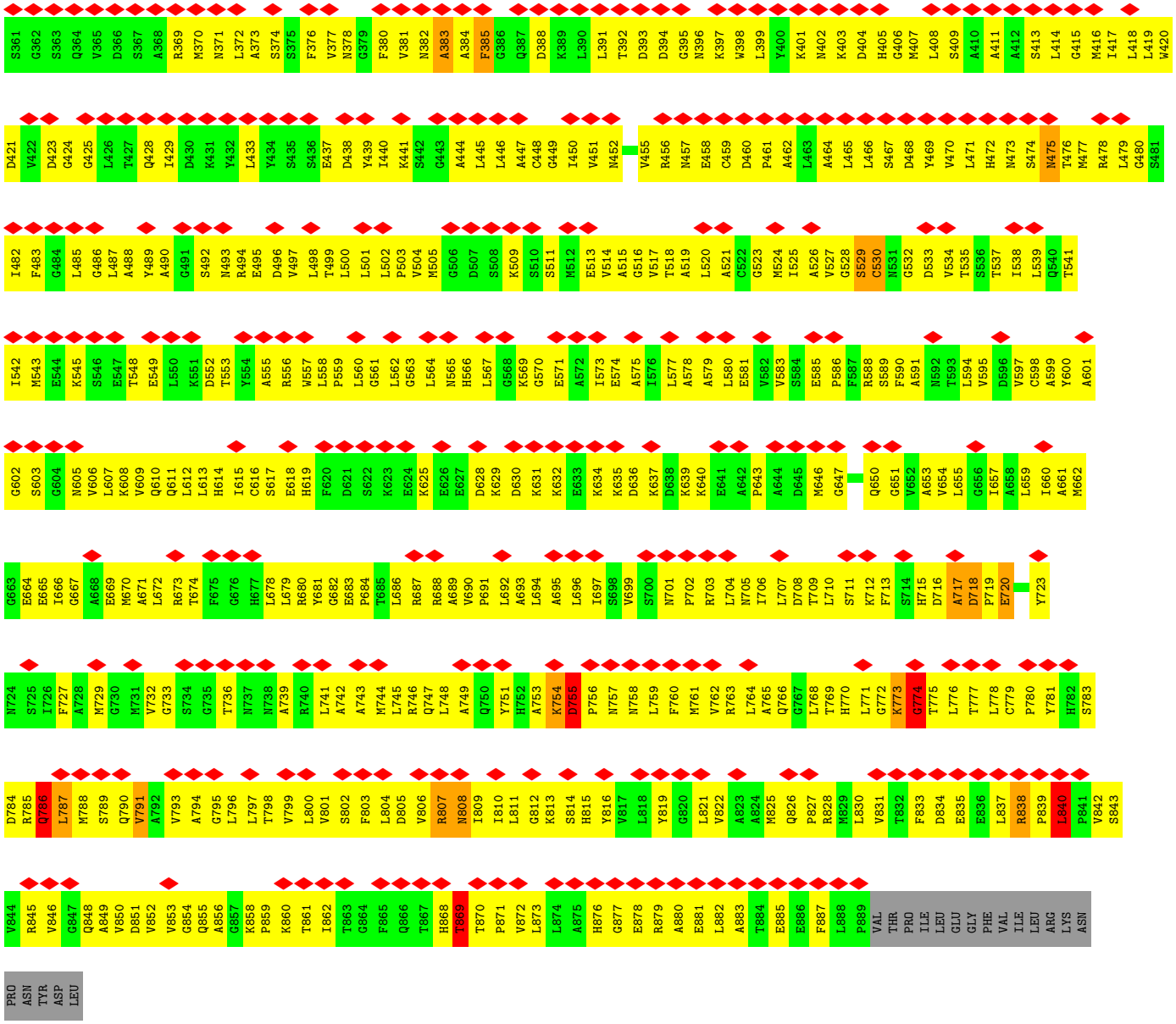




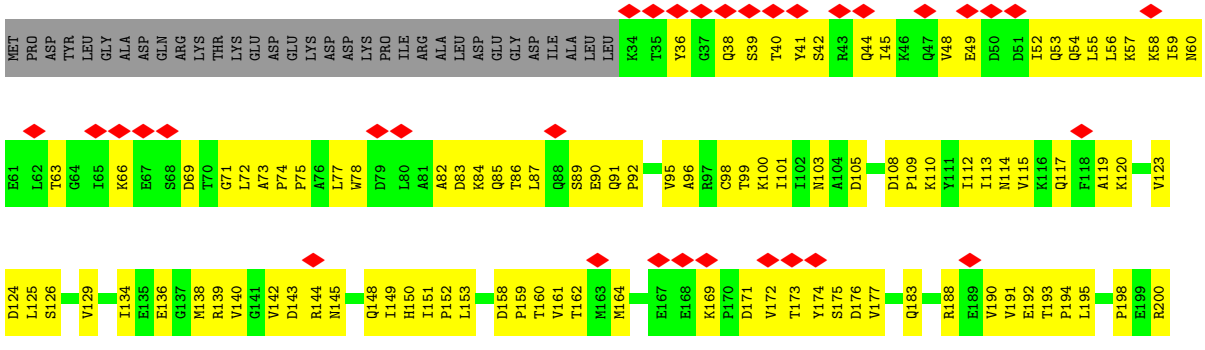
• Molecule 11: 26S proteasome non-ATPase regulatory subunit 2

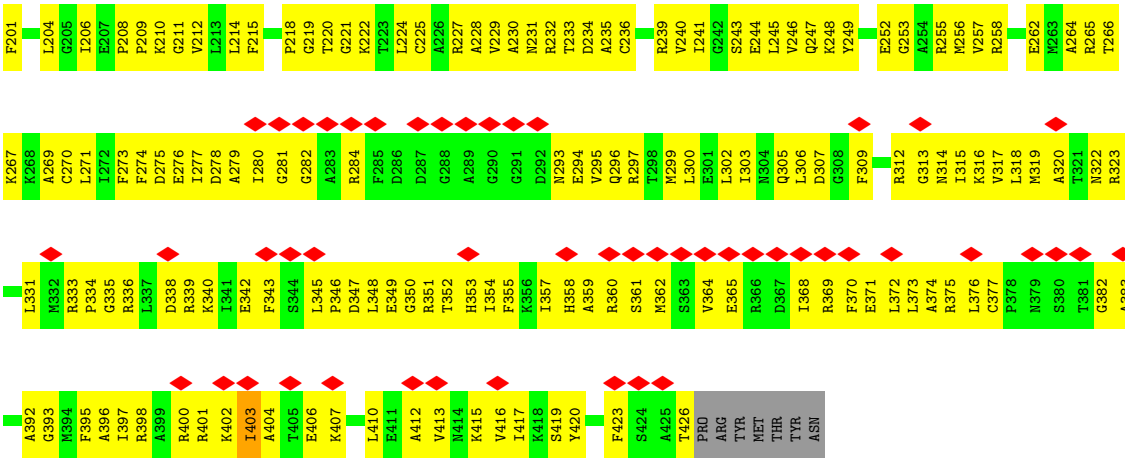
Chain f:





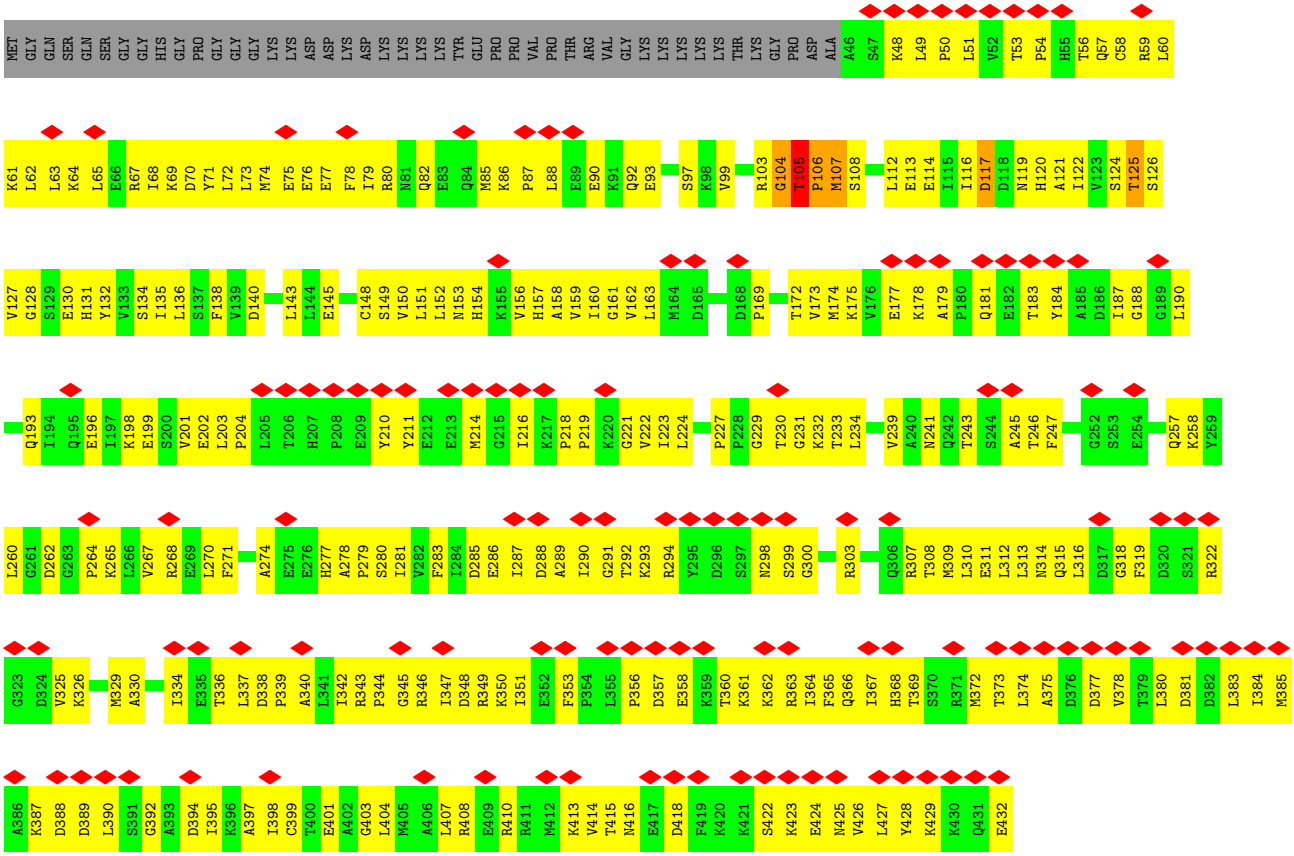
• Molecule 12: 26S protease regulatory subunit 7





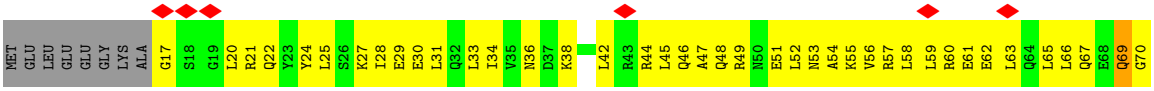
• Molecule 13: 26S proteasome regulatory subunit 4

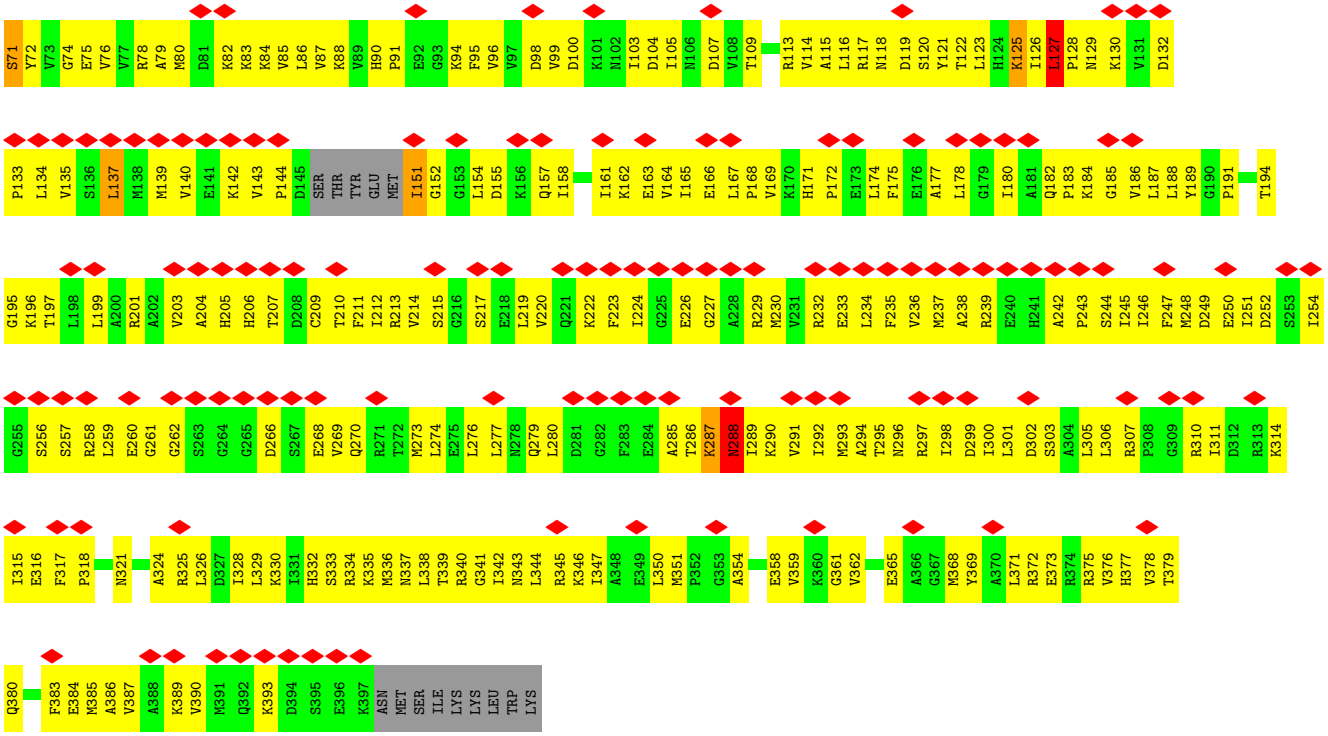
Chain B:



• Molecule 14: Isoform 2 of 26S proteasome regulatory subunit 8

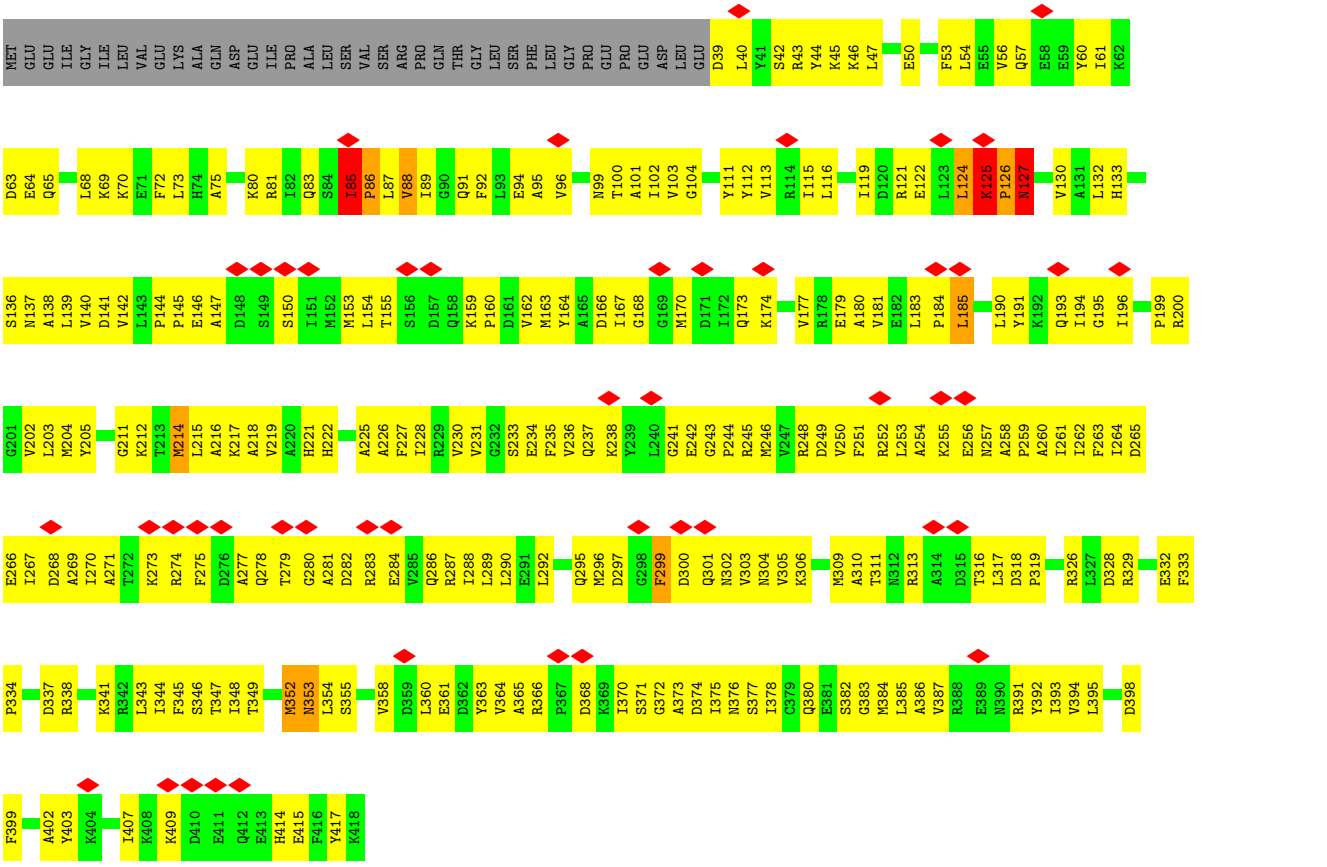
Chain C:





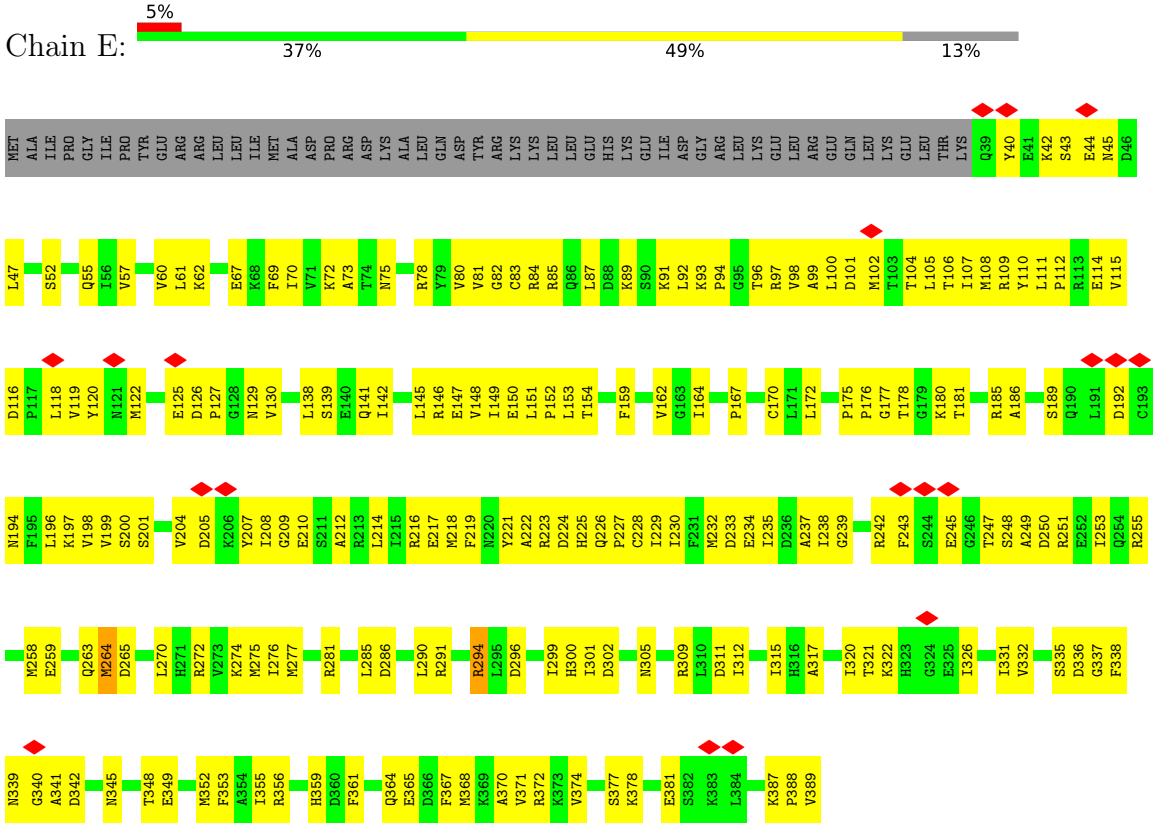
• Molecule 15: 26S protease regulatory subunit 6B

Chain D:



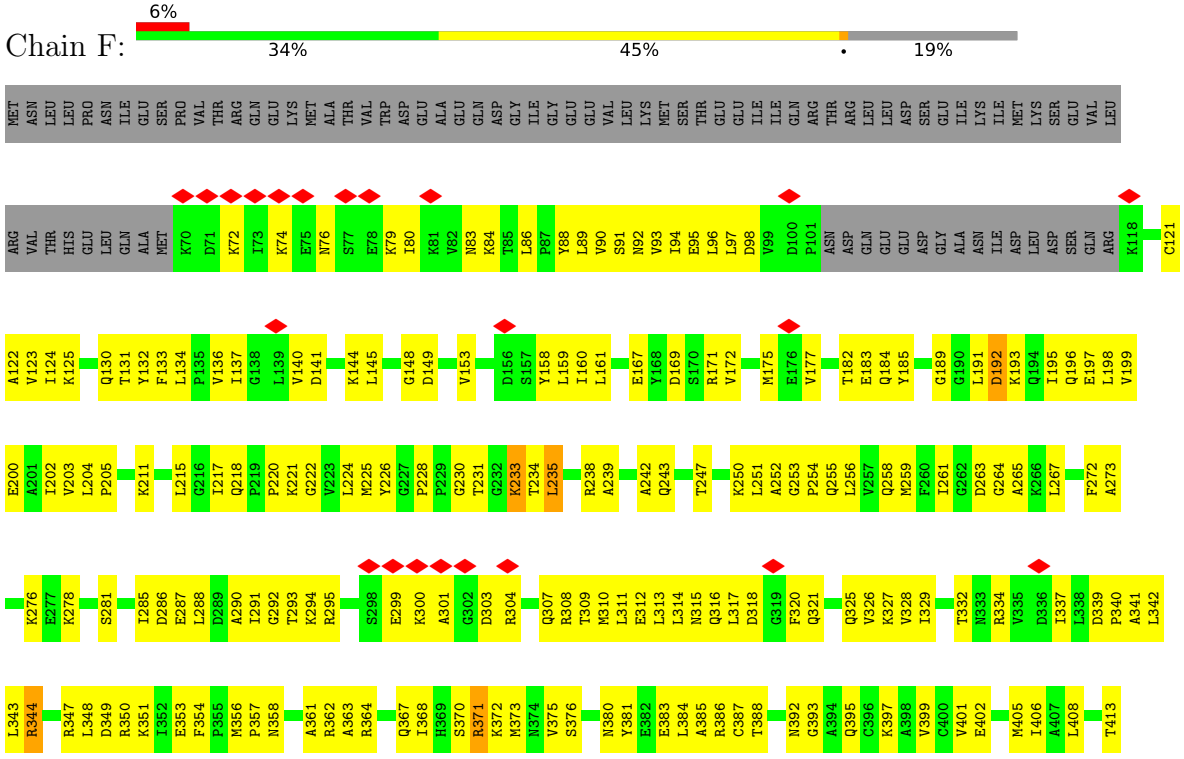
• Molecule 16: 26S proteasome regulatory subunit 10B

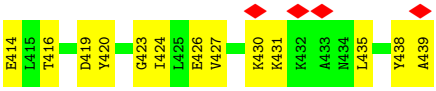
Chain E:



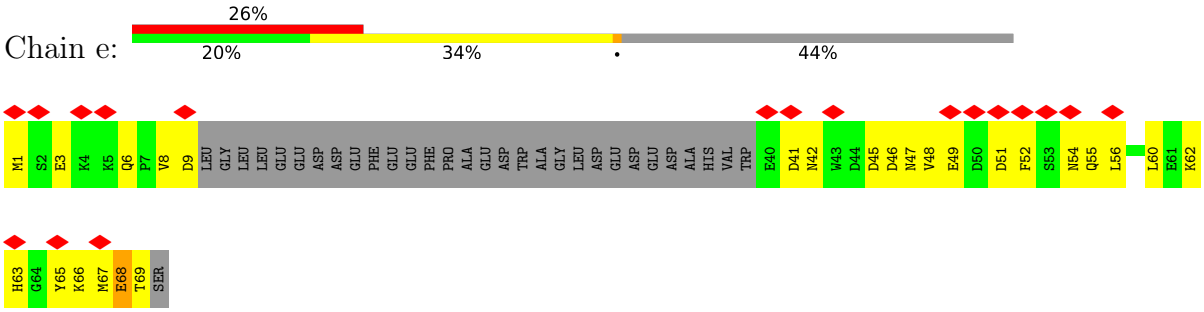
• Molecule 17: 26S protease regulatory subunit 6A

Chain F:



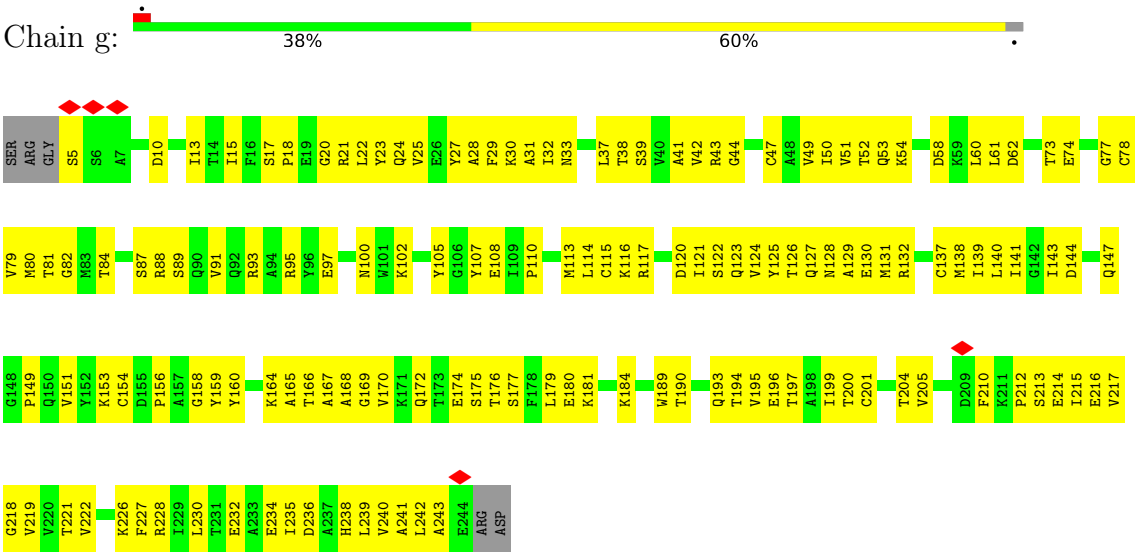


• Molecule 18: 26S proteasome complex subunit SEM1



• Molecule 19: Proteasome subunit alpha type-6

• Molecule 19: Proteasome subunit alpha type-6

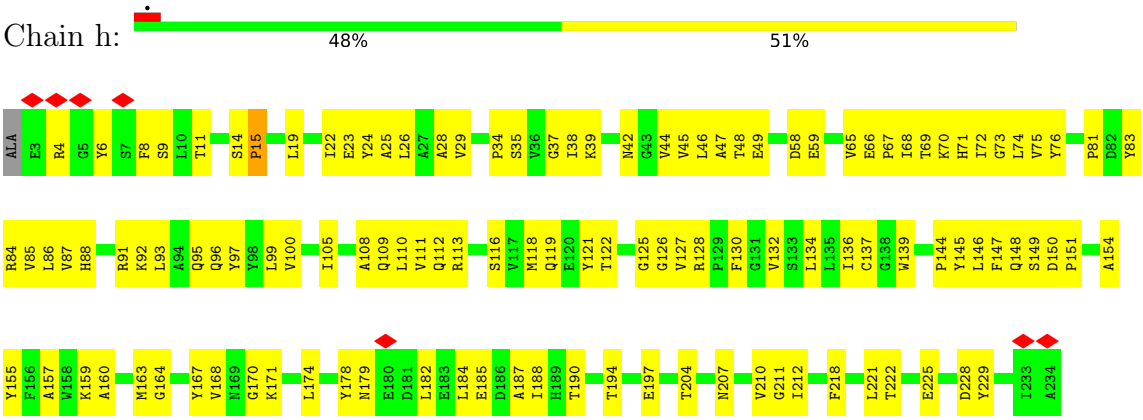


• Molecule 20: Proteasome subunit alpha type-2

Chain H:

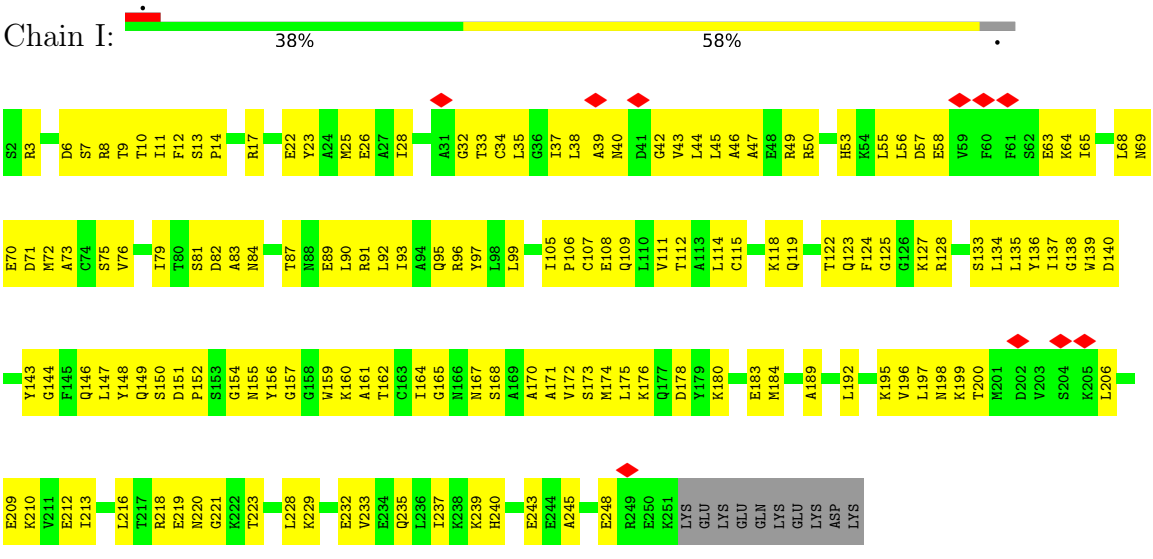
• Molecule 20: Proteasome subunit alpha type-2

Chain h:



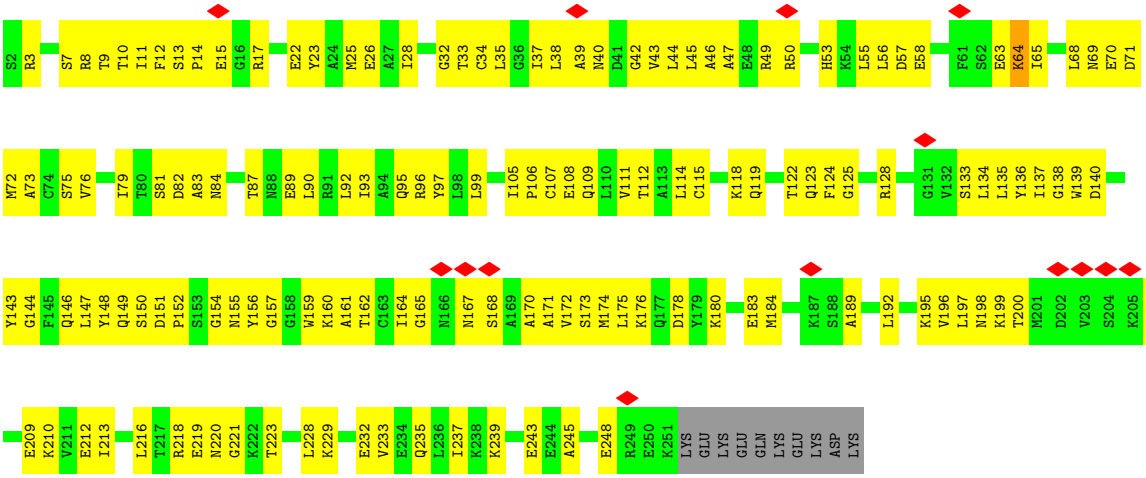
• Molecule 21: Proteasome subunit alpha type-4

Chain I:

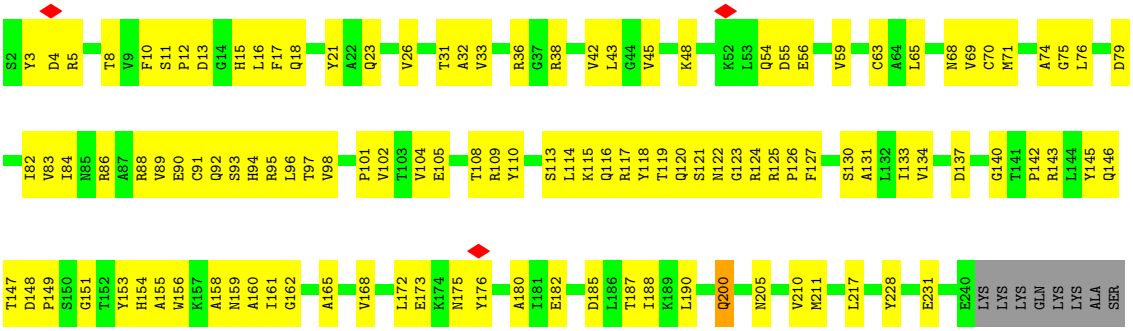


• Molecule 21: Proteasome subunit alpha type-4

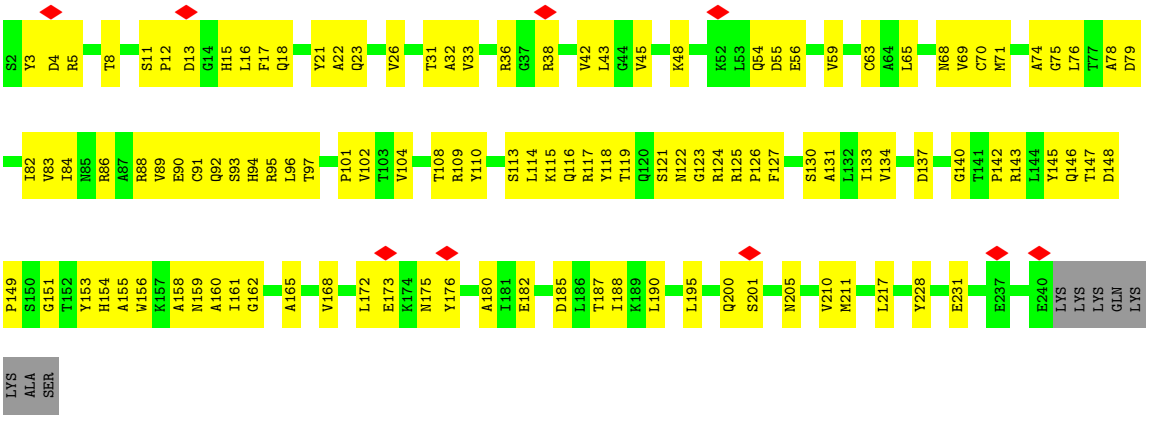
Chain i:



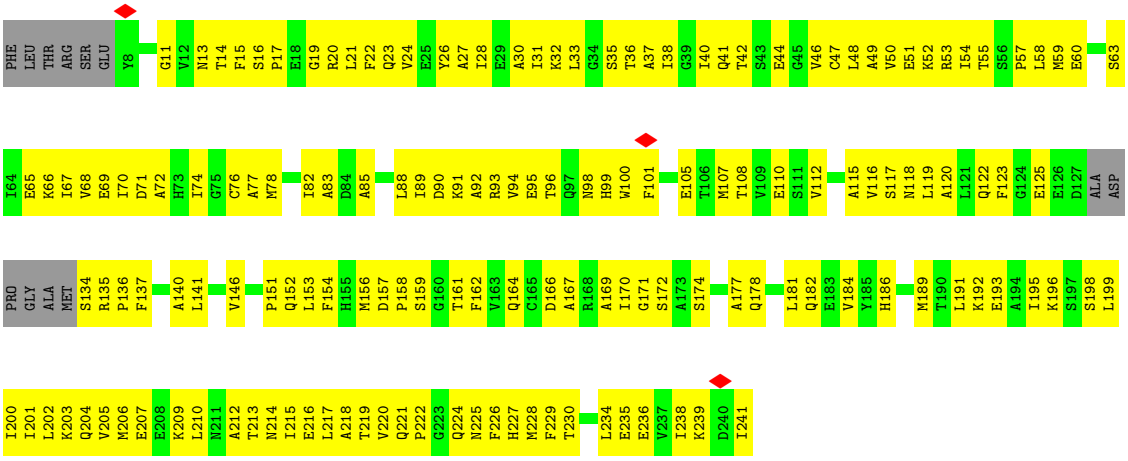
• Molecule 22: Proteasome subunit alpha type-7



• Molecule 22: Proteasome subunit alpha type-7

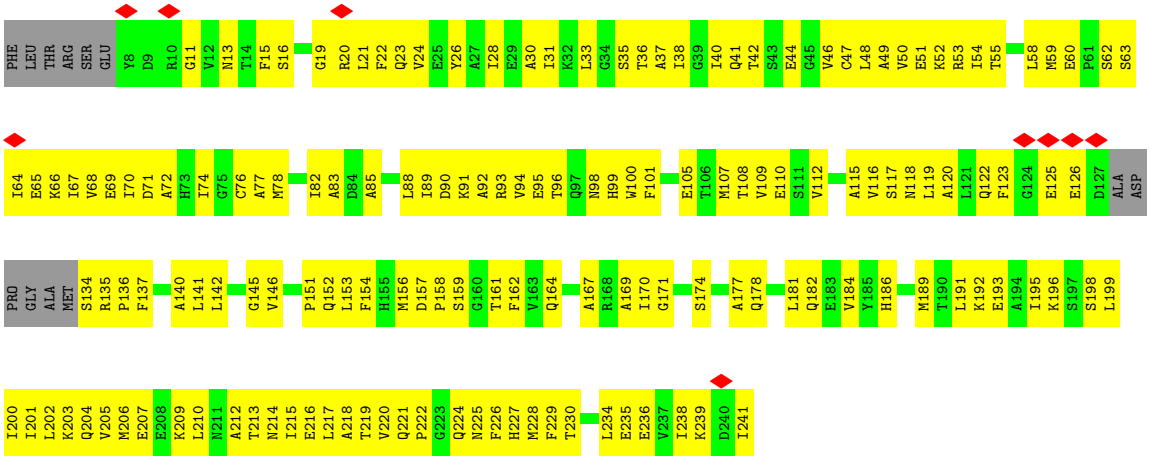


• Molecule 23: Proteasome subunit alpha type-5



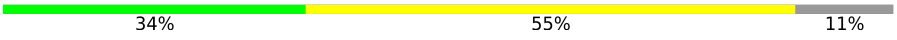
• Molecule 23: Proteasome subunit alpha type-5

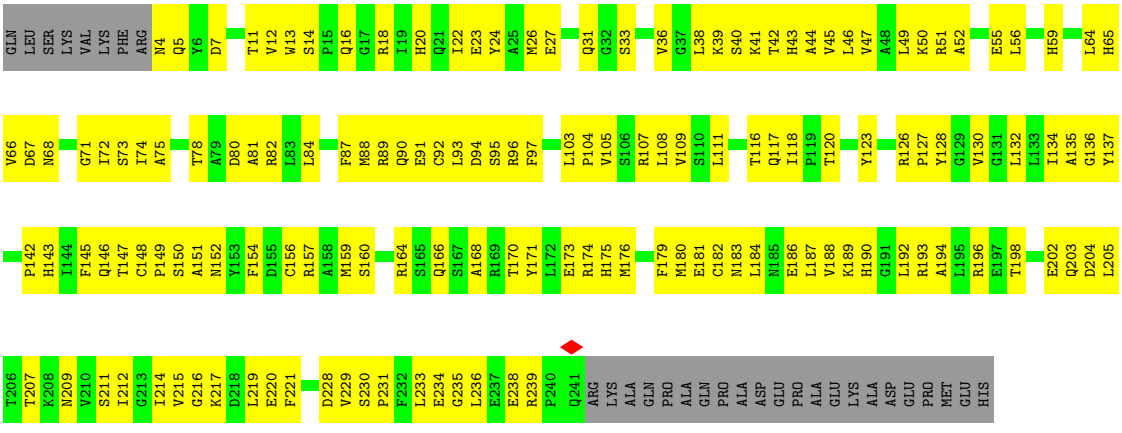
Chain k:



• Molecule 24: Isoform Long of Proteasome subunit alpha type-1

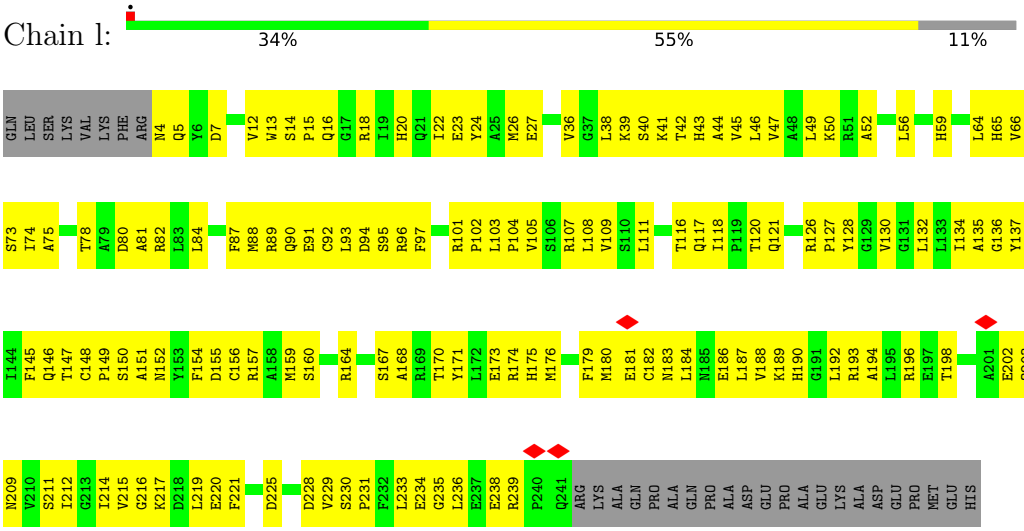
Chain L:





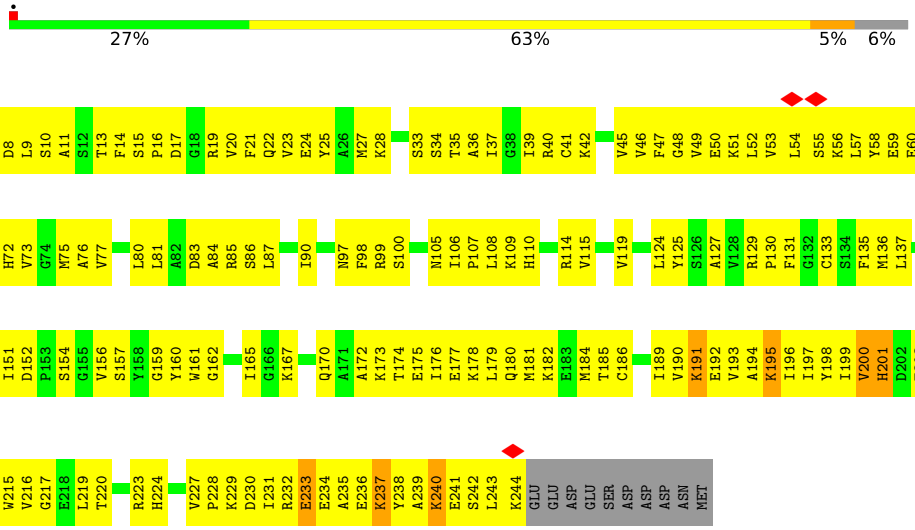
• Molecule 24: Isoform Long of Proteasome subunit alpha type-1

Chain l:



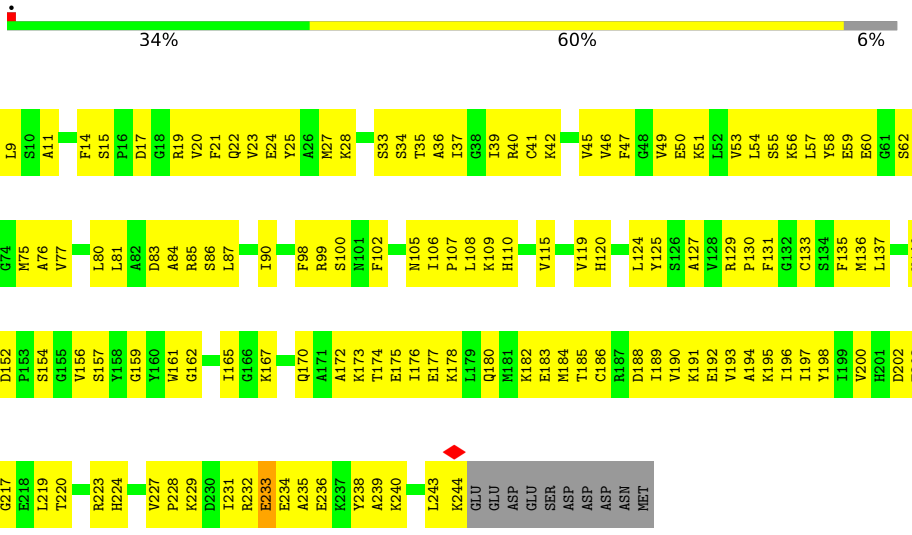
• Molecule 25: Proteasome subunit alpha type-3

Chain M:



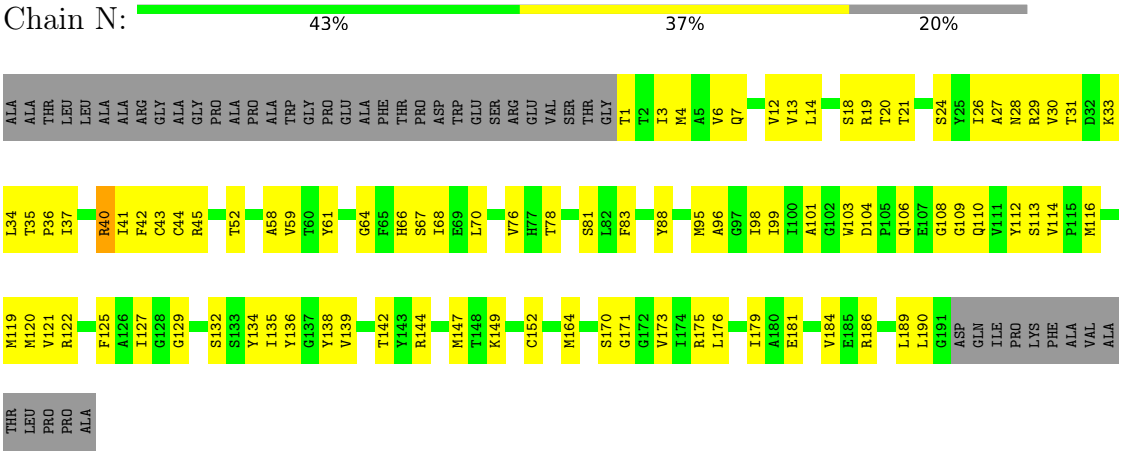
• Molecule 25: Proteasome subunit alpha type-3

Chain m:



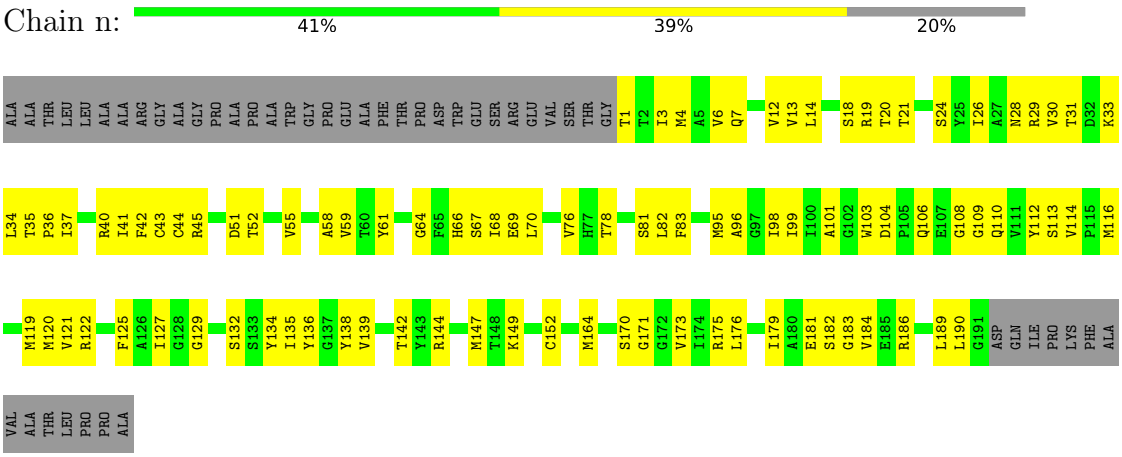
• Molecule 26: Proteasome subunit beta type-6

Chain N:



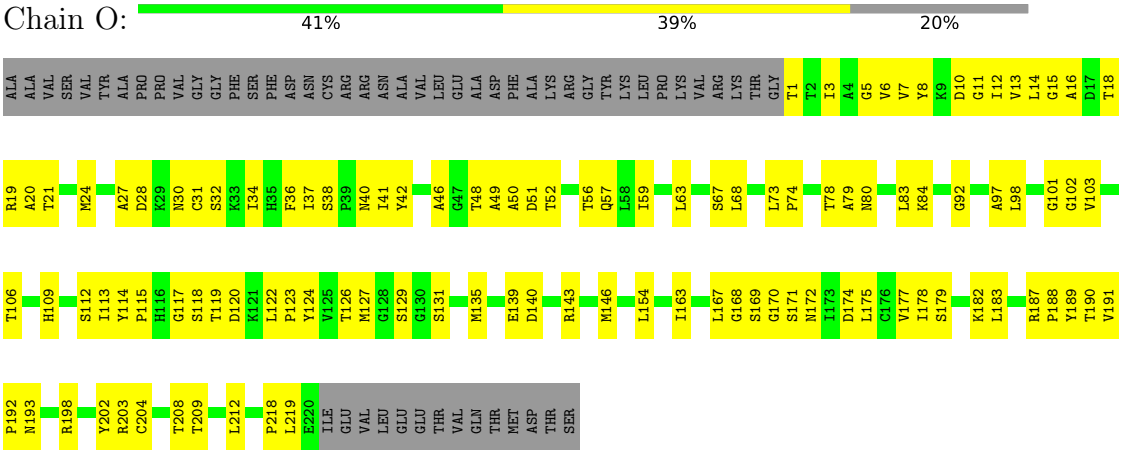
• Molecule 26: Proteasome subunit beta type-6

Chain n:



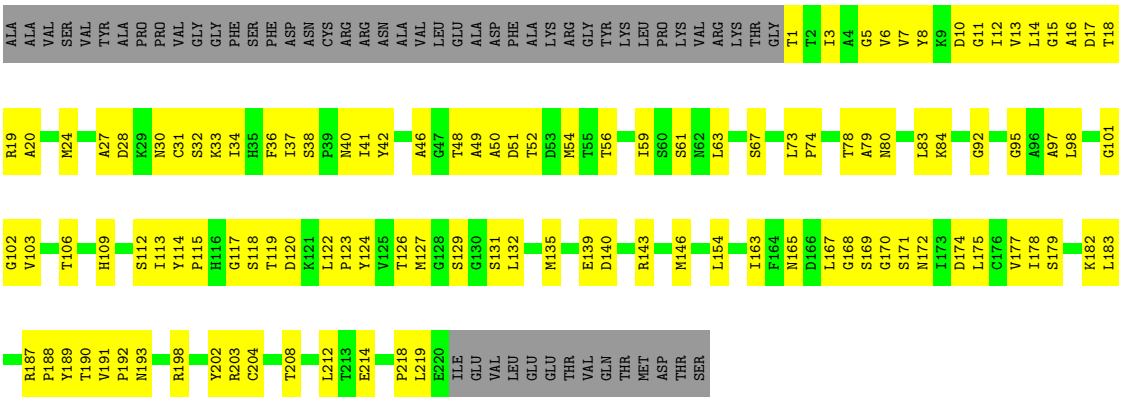
• Molecule 27: Proteasome subunit beta type-7

Chain O:



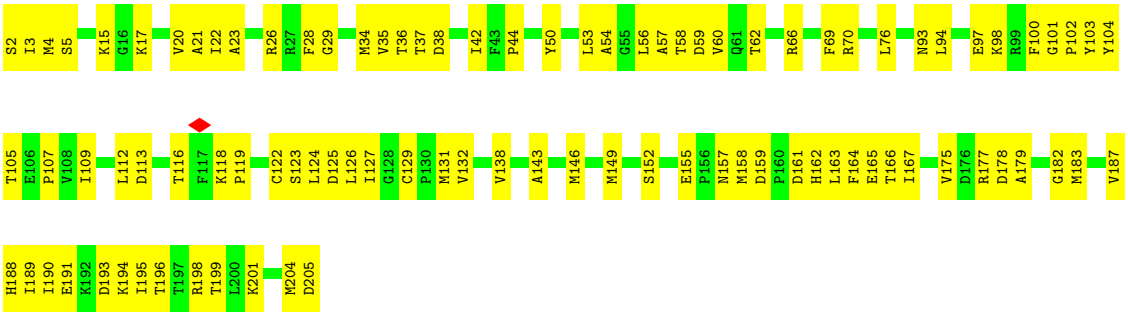
• Molecule 27: Proteasome subunit beta type-7

Chain o:



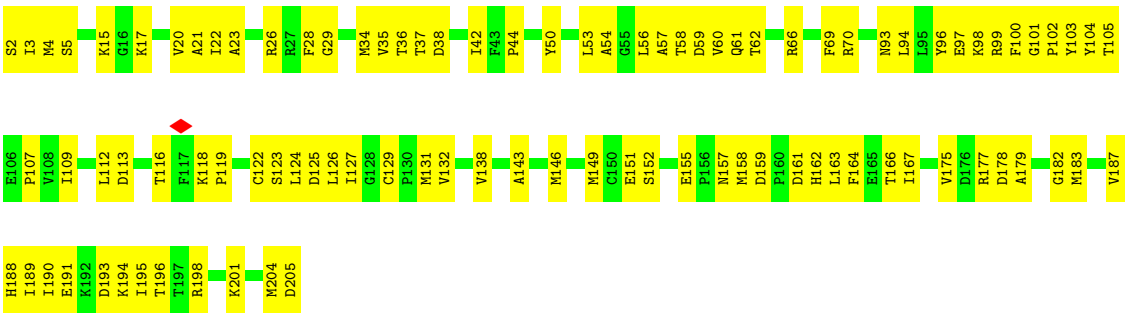
• Molecule 28: Proteasome subunit beta type-3

Chain P:



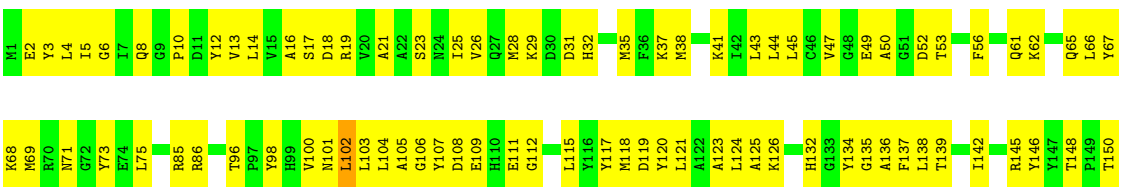
• Molecule 28: Proteasome subunit beta type-3

Chain p:



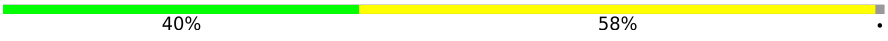
• Molecule 29: Proteasome subunit beta type-2

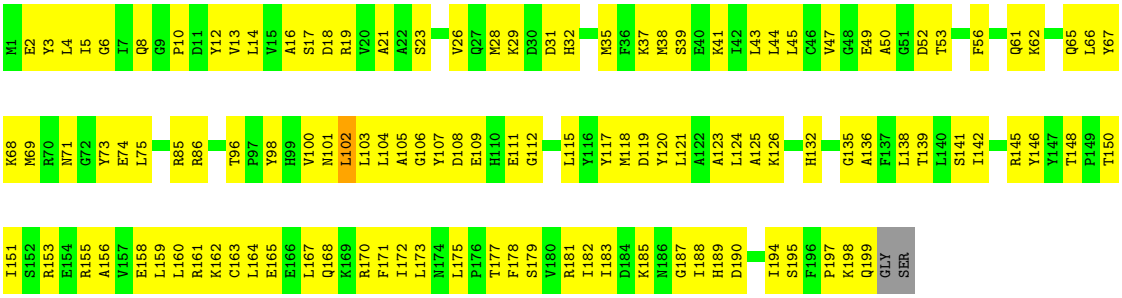
Chain Q:



• Molecule 29: Proteasome subunit beta type-2

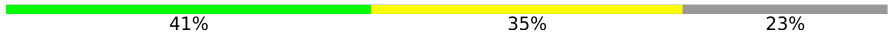
Chain q:

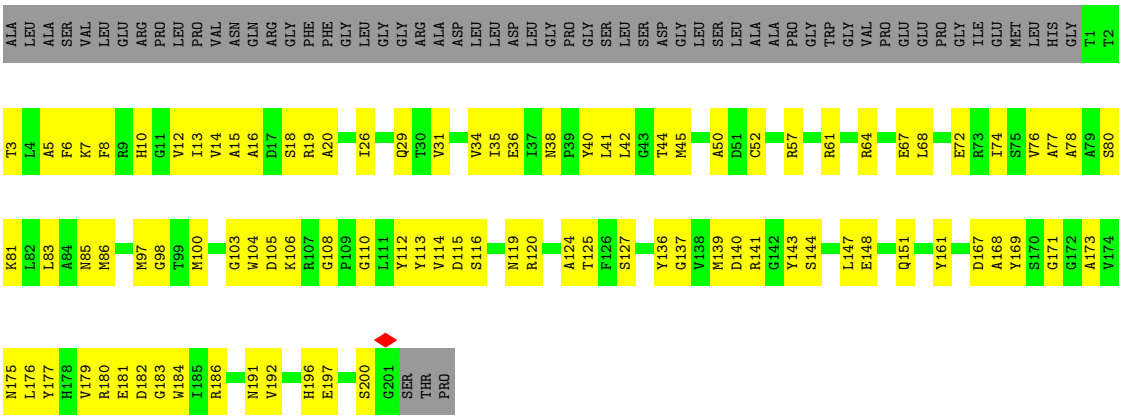




• Molecule 30: Proteasome subunit beta type-5

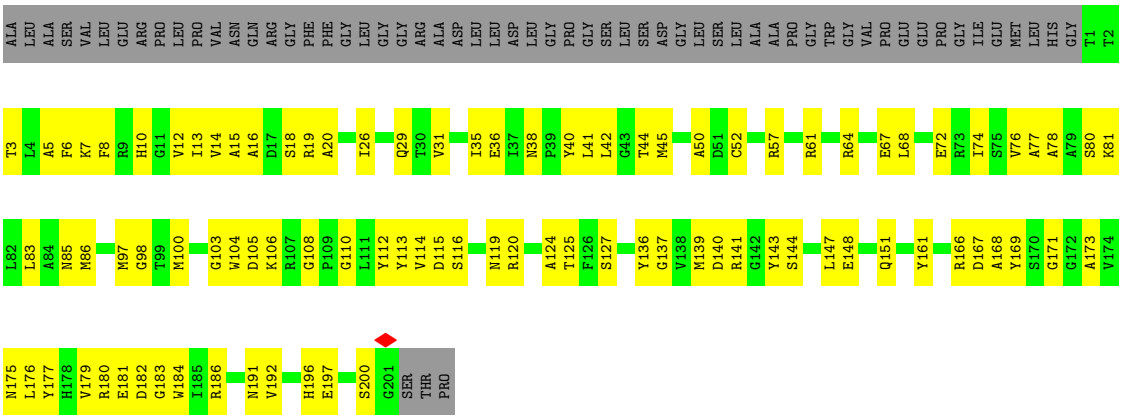
Chain R:





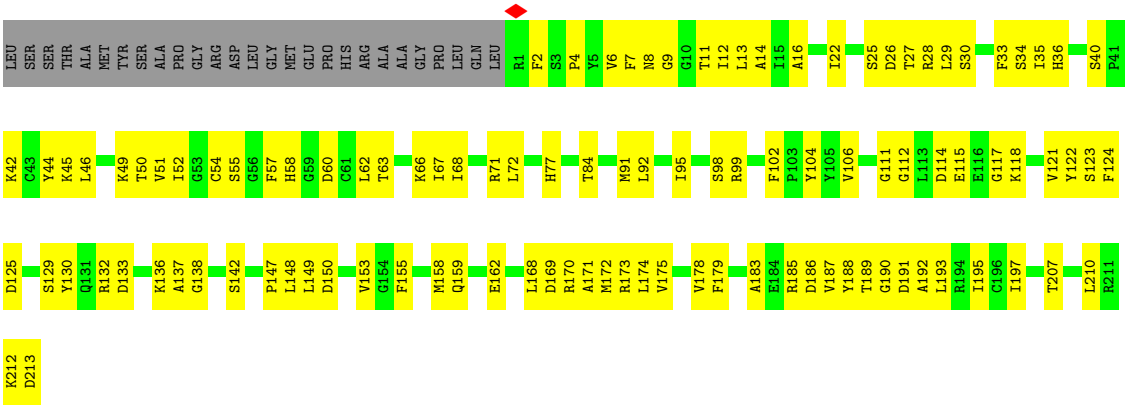
• Molecule 30: Proteasome subunit beta type-5

Chain r:



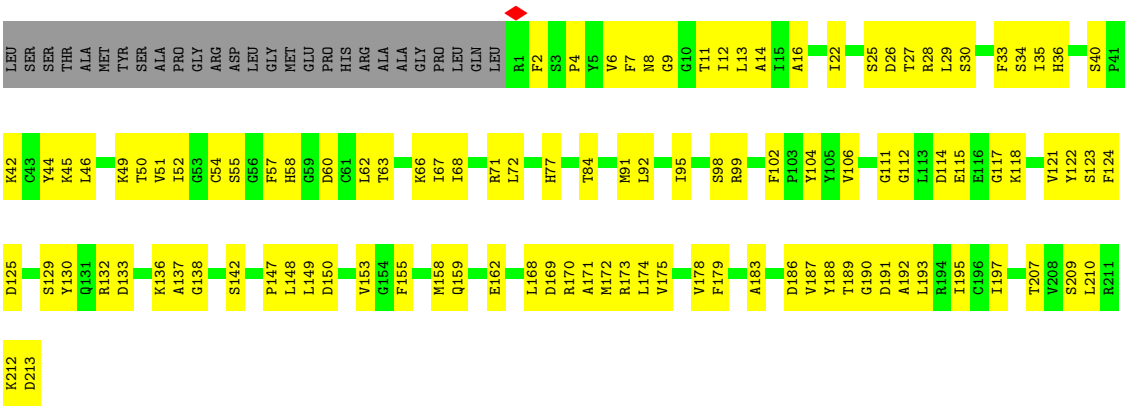
• Molecule 31: Proteasome subunit beta type-1

Chain S:



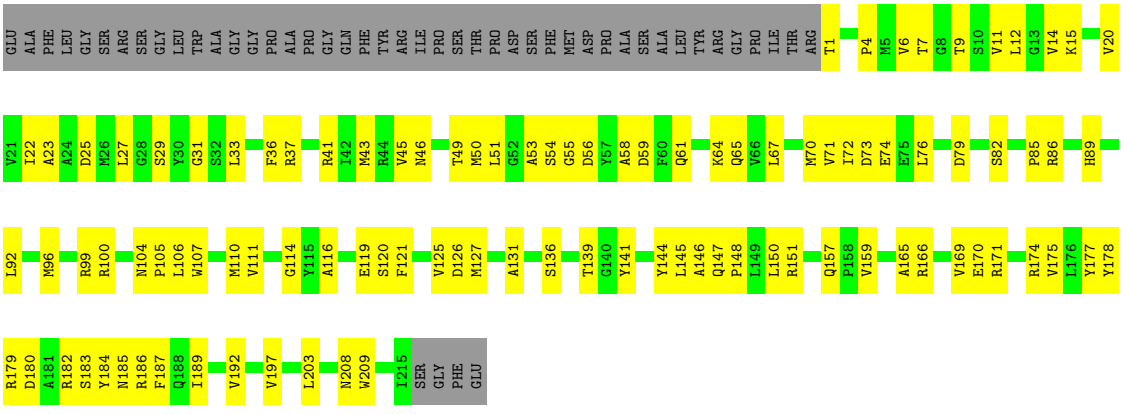
• Molecule 31: Proteasome subunit beta type-1

Chain s:



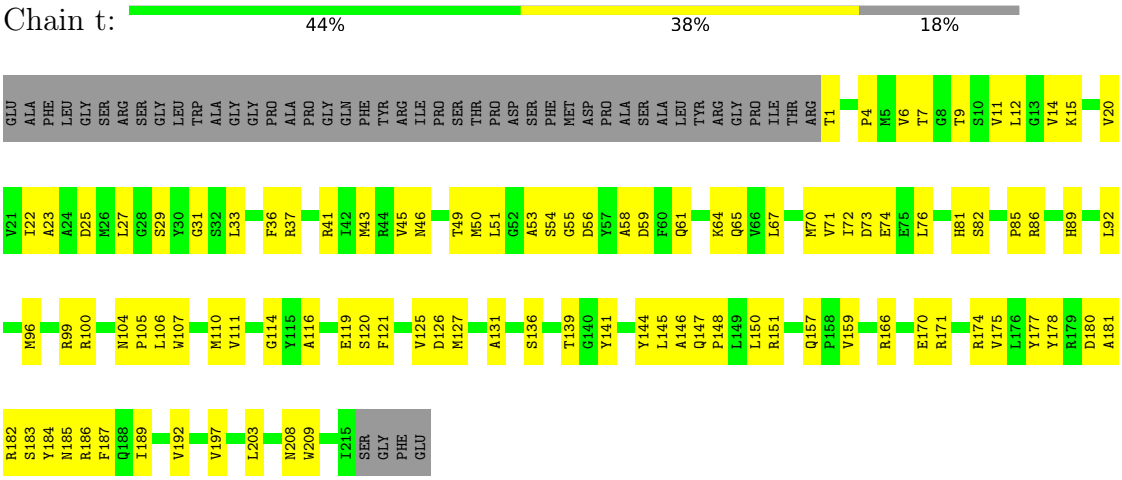
• Molecule 32: Proteasome subunit beta type-4

Chain T:



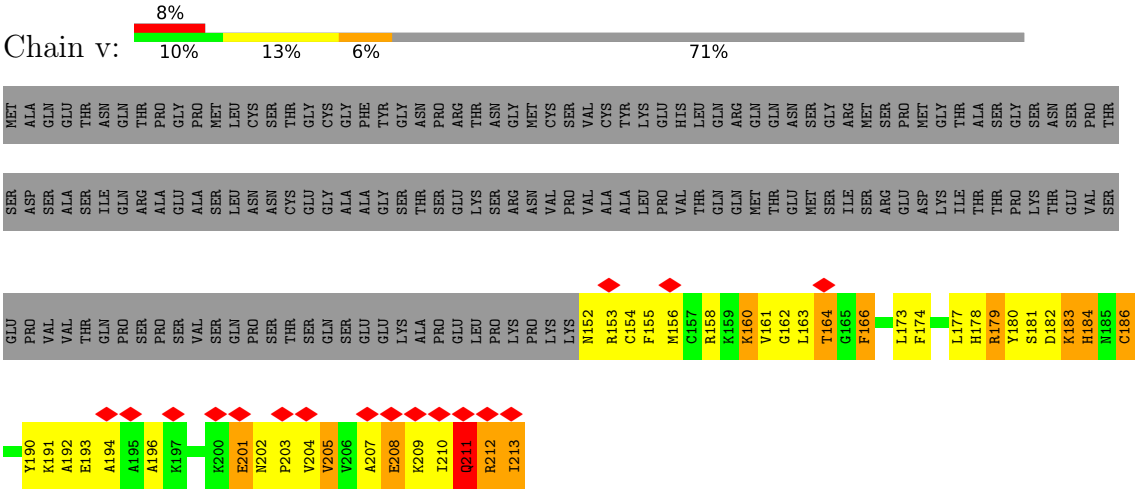
• Molecule 32: Proteasome subunit beta type-4

Chain t:



• Molecule 33: AN1-type zinc finger protein 5

Chain v:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	28928	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	46.6	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.124	Depositor
Minimum map value	-0.058	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.007	Depositor
Recommended contour level	0.0328	Depositor
Map size (Å)	438.4, 438.4, 438.4	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.37, 1.37, 1.37	Depositor

5 Model quality

5.1 Standard geometry

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

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	U	0.18	0/6449	0.50	0/8729
2	V	0.23	0/3929	0.56	1/5309 (0.0%)
3	W	0.21	0/3751	0.52	1/5042 (0.0%)
4	X	0.16	0/3053	0.41	0/4115
5	Y	0.23	0/3173	0.67	2/4273 (0.0%)
6	Z	0.20	0/2324	0.50	1/3150 (0.0%)
7	a	0.19	0/3053	0.46	0/4133
8	b	0.20	0/1478	0.52	1/2001 (0.0%)
9	c	0.23	0/2273	0.52	0/3069
10	d	0.22	0/2162	0.62	0/2919
11	f	0.26	2/6980 (0.0%)	0.66	11/9433 (0.1%)
12	A	0.22	0/3117	0.54	3/4207 (0.1%)
13	B	0.21	0/3070	0.54	3/4143 (0.1%)
14	C	0.22	0/2973	0.59	4/3997 (0.1%)
15	D	0.22	0/3089	0.56	3/4168 (0.1%)
16	E	0.22	0/2818	0.48	0/3800
17	F	0.25	0/2802	0.50	0/3777
18	e	0.24	0/331	0.66	0/442
19	G	0.24	0/1859	0.47	0/2523
19	g	0.24	0/1859	0.47	0/2523
20	H	0.23	0/1743	0.43	0/2372
20	h	0.24	0/1743	0.46	1/2372 (0.0%)
21	I	0.23	0/1942	0.45	0/2628
21	i	0.23	0/1942	0.46	0/2628
22	J	0.24	0/1728	0.48	0/2358
22	j	0.24	0/1728	0.47	0/2358
23	K	0.24	0/1747	0.42	0/2364
23	k	0.24	0/1747	0.42	0/2364
24	L	0.25	0/1885	0.44	0/2552
24	l	0.25	0/1885	0.44	0/2552
25	M	0.27	0/1891	0.55	0/2552
25	m	0.26	0/1891	0.48	0/2552

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
26	N	0.26	0/1454	0.44	0/1967
26	n	0.26	0/1454	0.44	0/1967
27	O	0.27	0/1670	0.42	0/2265
27	o	0.27	0/1670	0.43	0/2265
28	P	0.26	0/1614	0.41	0/2177
28	p	0.26	0/1614	0.41	0/2177
29	Q	0.26	0/1603	0.45	0/2174
29	q	0.26	0/1603	0.45	0/2174
30	R	0.26	0/1579	0.41	0/2134
30	r	0.26	0/1579	0.41	0/2134
31	S	0.26	0/1671	0.41	0/2253
31	s	0.26	0/1671	0.41	0/2253
32	T	0.26	0/1700	0.43	0/2305
32	t	0.26	0/1700	0.43	0/2305
33	v	0.55	0/508	1.01	0/676
All	All	0.24	2/105505 (0.0%)	0.51	31/142631 (0.0%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	f	755	ASP	C-N	6.20	1.38	1.33
11	f	786	GLN	N-CA	6.00	1.53	1.46

All (31) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	Y	210	SER	N-CA-C	8.33	122.31	108.73
15	D	125	LYS	CA-C-N	8.07	129.93	119.84
15	D	125	LYS	C-N-CA	8.07	129.93	119.84
5	Y	182	VAL	N-CA-C	-8.01	104.76	112.29
11	f	348	ILE	N-CA-C	-7.29	104.75	111.67
11	f	840	LEU	CA-C-N	6.99	128.09	119.98
11	f	840	LEU	C-N-CA	6.99	128.09	119.98
13	B	104	GLY	N-CA-C	6.80	123.34	112.06
2	V	437	ILE	N-CA-C	-6.77	106.53	113.10
12	A	220	THR	O-C-N	-6.59	113.83	122.59
15	D	185	LEU	N-CA-C	-6.45	106.62	114.75
14	C	127	LEU	CA-C-N	6.42	126.33	119.85
14	C	127	LEU	C-N-CA	6.42	126.33	119.85
11	f	529	SER	N-CA-C	-6.32	102.95	111.54
12	A	85	GLN	CA-C-N	6.25	133.56	121.63
12	A	85	GLN	C-N-CA	6.25	133.56	121.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	f	786	GLN	N-CA-C	6.07	118.42	111.02
13	B	105	THR	CA-C-N	5.81	127.10	119.84
13	B	105	THR	C-N-CA	5.81	127.10	119.84
20	h	15	PRO	N-CA-C	-5.80	105.47	113.53
3	W	96	GLN	N-CA-C	-5.79	105.84	114.64
6	Z	210	SER	N-CA-C	-5.65	105.04	111.14
8	b	174	PRO	N-CA-C	5.63	117.57	110.70
11	f	869	THR	N-CA-C	5.40	122.29	110.80
11	f	786	GLN	N-CA-CB	5.36	117.97	109.82
14	C	288	ASN	CA-C-N	-5.29	116.63	123.19
14	C	288	ASN	C-N-CA	-5.29	116.63	123.19
11	f	774	GLY	CA-C-N	-5.22	111.78	122.58
11	f	774	GLY	C-N-CA	-5.22	111.78	122.58
11	f	791	VAL	N-CA-C	-5.17	107.93	112.90
11	f	332	ALA	N-CA-C	-5.07	106.94	113.23

There are no chirality outliers.

There are no planarity outliers.

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	U	6334	0	6366	817	0
2	V	3852	0	3893	530	0
3	W	3703	0	3822	516	0
4	X	3009	0	3113	266	0
5	Y	3115	0	3119	449	0
6	Z	2281	0	2312	291	0
7	a	2995	0	3012	346	0
8	b	1458	0	1505	231	0
9	c	2232	0	2248	316	0
10	d	2116	0	2146	324	0
11	f	6866	0	6864	1188	0
12	A	3067	0	3100	409	0
13	B	3027	0	3077	420	0
14	C	2936	0	3038	417	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
15	D	3039	0	3076	396	0
16	E	2773	0	2826	290	0
17	F	2763	0	2838	317	0
18	e	327	0	289	56	0
19	G	1826	0	1796	167	0
19	g	1826	0	1796	154	0
20	H	1708	0	1594	131	0
20	h	1708	0	1594	128	0
21	I	1912	0	1851	178	0
21	i	1912	0	1851	170	0
22	J	1704	0	1517	141	0
22	j	1704	0	1517	138	0
23	K	1722	0	1673	196	0
23	k	1722	0	1673	189	0
24	L	1850	0	1822	196	0
24	l	1850	0	1822	192	0
25	M	1856	0	1814	288	0
25	m	1856	0	1814	200	0
26	N	1430	0	1398	109	0
26	n	1430	0	1398	103	0
27	O	1643	0	1644	111	0
27	o	1643	0	1644	116	0
28	P	1585	0	1598	107	0
28	p	1585	0	1598	102	0
29	Q	1570	0	1547	137	0
29	q	1570	0	1547	140	0
30	R	1548	0	1499	90	0
30	r	1548	0	1499	93	0
31	S	1641	0	1618	108	0
31	s	1641	0	1618	106	0
32	T	1667	0	1628	116	0
32	t	1667	0	1628	110	0
33	v	499	0	502	166	0
34	c	1	0	0	0	0
35	A	31	0	12	14	0
35	D	31	0	12	3	0
35	F	31	0	12	6	0
36	A	1	0	0	0	0
36	D	1	0	0	0	0
36	F	1	0	0	0	0
37	B	27	0	12	12	0
37	E	27	0	12	13	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	103867	0	103204	10578	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 51.

All (10578) 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)
17:F:196:GLN:CD	33:v:164:THR:CG2	1.78	1.54
17:F:196:GLN:NE2	33:v:164:THR:CG2	1.68	1.53
17:F:364:ARG:HG2	33:v:180:TYR:CE1	1.42	1.51
11:f:348:ILE:HG21	11:f:751:TYR:CD1	1.40	1.50
17:F:196:GLN:CD	33:v:164:THR:HG22	1.27	1.50
16:E:264:MET:SD	16:E:275:MET:HE1	1.51	1.49
11:f:330:PHE:HA	11:f:333:LEU:CB	1.39	1.48
33:v:166:PHE:CD2	33:v:179:ARG:HG3	1.43	1.48
8:b:144:GLY:H	8:b:173:VAL:CG2	1.28	1.47
12:A:314:ASN:ND2	33:v:203:PRO:HD3	1.19	1.45
1:U:580:ARG:HG3	1:U:614:VAL:CA	1.48	1.43
11:f:348:ILE:CG2	11:f:751:TYR:CD1	1.98	1.42
1:U:725:MET:SD	9:c:182:GLY:HA3	1.58	1.42
13:B:105:THR:HB	13:B:106:PRO:CD	1.41	1.41
15:D:125:LYS:CD	15:D:126:PRO:HD3	1.53	1.39
11:f:298:LEU:CD1	11:f:301:HIS:NE2	1.84	1.39
11:f:330:PHE:CA	11:f:333:LEU:HB2	1.53	1.37
33:v:156:MET:CE	33:v:184:HIS:HA	1.58	1.33
15:D:125:LYS:CB	15:D:126:PRO:HD2	1.51	1.32
17:F:225:MET:HB3	17:F:233:LYS:NZ	1.43	1.32
13:B:105:THR:CB	13:B:106:PRO:HD2	1.60	1.31
16:E:291:ARG:NE	16:E:294:ARG:HD2	1.40	1.31
17:F:192:ASP:OD2	25:M:204:VAL:HG21	1.25	1.31
1:U:770:TRP:CD2	9:c:183:HIS:HE1	1.46	1.30
17:F:196:GLN:NE2	33:v:164:THR:HG22	1.27	1.30
11:f:298:LEU:HD11	11:f:301:HIS:NE2	1.39	1.30
15:D:125:LYS:HD3	15:D:126:PRO:CD	1.59	1.30
33:v:166:PHE:HE2	33:v:179:ARG:CD	1.43	1.29
15:D:125:LYS:HB3	15:D:126:PRO:CD	1.61	1.29
17:F:192:ASP:OD2	25:M:204:VAL:CG2	1.79	1.28
14:C:127:LEU:HD11	15:D:112:TYR:CE1	1.66	1.27
11:f:873:LEU:HD11	11:f:876:HIS:O	1.33	1.27
13:B:106:PRO:HB2	13:B:154:HIS:NE2	1.47	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:A:314:ASN:ND2	33:v:203:PRO:CD	1.98	1.26
16:E:264:MET:SD	16:E:275:MET:CE	2.22	1.26
33:v:191:LYS:O	33:v:194:ALA:HB3	1.30	1.25
8:b:144:GLY:N	8:b:173:VAL:CG2	2.00	1.25
1:U:770:TRP:CG	9:c:183:HIS:CE1	2.24	1.24
25:M:191:LYS:HZ2	25:M:234:GLU:CB	1.51	1.24
8:b:174:PRO:CD	8:b:175:PRO:HD3	1.66	1.23
22:J:200:GLN:NE2	22:J:205:ASN:HD22	1.37	1.22
17:F:364:ARG:HD3	33:v:180:TYR:CD1	1.75	1.21
1:U:580:ARG:CG	1:U:614:VAL:HA	1.70	1.21
11:f:348:ILE:HG22	11:f:751:TYR:CE1	1.75	1.21
5:Y:146:ARG:NH2	5:Y:211:TYR:CD1	2.07	1.21
11:f:348:ILE:CG2	11:f:751:TYR:CE1	2.23	1.21
33:v:153:ARG:HD3	33:v:158:ARG:O	1.37	1.20
2:V:68:ASP:O	2:V:72:LEU:HB2	1.38	1.19
14:C:127:LEU:CD1	15:D:96:VAL:HG21	1.71	1.19
8:b:140:ILE:O	8:b:171:VAL:HG23	1.41	1.19
1:U:725:MET:CE	9:c:182:GLY:CA	2.21	1.19
33:v:166:PHE:CD2	33:v:179:ARG:CG	2.25	1.19
33:v:166:PHE:CE2	33:v:179:ARG:CD	2.26	1.18
1:U:770:TRP:CD2	9:c:183:HIS:CE1	2.32	1.18
5:Y:287:LEU:CD1	5:Y:290:PRO:O	1.91	1.18
17:F:196:GLN:CG	33:v:164:THR:HG22	1.72	1.18
1:U:725:MET:CE	9:c:182:GLY:HA3	1.74	1.17
18:e:42:ASN:O	18:e:46:ASP:HB2	1.44	1.17
12:A:198:PRO:CB	33:v:202:ASN:HD21	1.57	1.17
11:f:331:LEU:HD13	11:f:808:ASN:ND2	1.58	1.17
22:J:200:GLN:HE22	22:J:205:ASN:ND2	1.40	1.17
11:f:331:LEU:O	11:f:335:ARG:HB2	1.42	1.16
15:D:125:LYS:HE2	15:D:125:LYS:HA	1.23	1.15
1:U:770:TRP:CG	9:c:183:HIS:HE1	1.62	1.15
11:f:766:GLN:NE2	11:f:807:ARG:NH1	1.95	1.15
15:D:92:PHE:CE2	15:D:124:LEU:HD12	1.82	1.14
12:A:219:GLY:HA2	35:A:501:ATP:H5'1	1.17	1.14
25:M:191:LYS:NZ	25:M:234:GLU:HB3	1.62	1.13
11:f:300:ARG:HH12	11:f:301:HIS:CE1	1.67	1.13
13:B:106:PRO:HB2	13:B:154:HIS:CE1	1.83	1.13
33:v:166:PHE:CE2	33:v:179:ARG:HG3	1.83	1.13
8:b:144:GLY:O	8:b:173:VAL:HG21	1.49	1.13
14:C:187:LEU:O	14:C:314:LYS:HA	1.47	1.12
17:F:193:LYS:HZ2	25:M:204:VAL:HG23	1.04	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:C:127:LEU:HD13	15:D:96:VAL:CG2	1.78	1.12
5:Y:146:ARG:NH2	5:Y:211:TYR:HD1	1.43	1.12
8:b:144:GLY:H	8:b:173:VAL:HG23	0.98	1.12
11:f:331:LEU:CD1	11:f:808:ASN:ND2	2.12	1.12
17:F:364:ARG:CG	33:v:180:TYR:CE1	2.32	1.12
25:M:192:GLU:OE2	25:M:196:ILE:HD11	1.50	1.12
17:F:368:ILE:O	17:F:371:ARG:HG3	1.47	1.12
1:U:681:ASN:HD21	9:c:182:GLY:HA2	1.07	1.11
11:f:873:LEU:CD1	11:f:876:HIS:O	1.96	1.11
17:F:193:LYS:NZ	25:M:204:VAL:HG23	1.62	1.10
1:U:725:MET:SD	9:c:182:GLY:CA	2.40	1.10
1:U:605:VAL:O	1:U:609:ASP:HB2	1.51	1.09
8:b:174:PRO:HD2	8:b:175:PRO:CD	1.81	1.09
17:F:196:GLN:NE2	33:v:164:THR:HG21	1.60	1.09
7:a:64:ILE:O	7:a:68:GLU:HB2	1.48	1.09
11:f:757:ASN:HA	33:v:213:ILE:HG13	1.13	1.09
11:f:773:LYS:CD	11:f:776:LEU:HD13	1.81	1.09
5:Y:182:VAL:HG13	5:Y:186:LEU:HD22	1.29	1.09
8:b:141:ILE:HG12	8:b:171:VAL:HG21	1.26	1.09
15:D:92:PHE:CE2	15:D:124:LEU:CD1	2.35	1.08
3:W:293:ASP:HB3	3:W:296:LEU:HB2	1.36	1.08
10:d:215:TRP:HB3	10:d:222:TYR:HB3	1.36	1.08
1:U:770:TRP:CD1	9:c:183:HIS:CE1	2.40	1.07
10:d:89:LEU:HB3	10:d:90:PRO:HD2	1.35	1.07
9:c:75:MET:HB2	9:c:76:PRO:HD2	1.35	1.07
11:f:529:SER:HB2	11:f:574:GLU:HG3	1.29	1.07
25:M:191:LYS:HZ3	25:M:234:GLU:HG3	1.16	1.07
33:v:156:MET:HE3	33:v:183:LYS:O	1.52	1.07
12:A:198:PRO:HB3	33:v:202:ASN:HD21	1.01	1.07
12:A:314:ASN:CG	33:v:203:PRO:HD3	1.78	1.07
11:f:702:PRO:HB2	11:f:787:LEU:HD11	1.32	1.06
12:A:139:ARG:O	12:A:153:LEU:HB2	1.55	1.06
12:A:198:PRO:CB	33:v:202:ASN:ND2	2.18	1.06
18:e:45:ASP:HA	18:e:48:VAL:HG12	1.38	1.06
17:F:225:MET:HB3	17:F:233:LYS:HZ1	0.89	1.06
8:b:144:GLY:N	8:b:173:VAL:HG21	1.71	1.06
11:f:118:ASN:O	11:f:122:ALA:HB3	1.54	1.06
17:F:368:ILE:O	17:F:371:ARG:CG	2.04	1.06
1:U:268:LEU:HD22	1:U:329:LEU:HD11	1.38	1.05
5:Y:287:LEU:HD12	5:Y:290:PRO:O	1.51	1.05
11:f:869:THR:O	11:f:871:PRO:HD3	1.55	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:583:MET:HE1	1:U:602:LEU:CG	1.86	1.05
3:W:357:ARG:O	3:W:361:HIS:CG	2.10	1.05
11:f:777:THR:HG22	11:f:803:PHE:HA	1.33	1.05
8:b:174:PRO:HD2	8:b:175:PRO:HD3	1.07	1.05
1:U:146:LYS:HB3	14:C:20:LEU:HD11	1.35	1.04
16:E:226:GLN:HG3	16:E:272:ARG:HD2	1.37	1.04
25:M:192:GLU:OE2	25:M:196:ILE:CD1	2.05	1.04
11:f:757:ASN:OD1	33:v:213:ILE:HB	1.54	1.04
3:W:454:ASN:ND2	6:Z:221:PRO:CG	2.21	1.04
11:f:757:ASN:HB3	33:v:213:ILE:HA	1.38	1.04
17:F:196:GLN:CD	33:v:164:THR:HG21	1.73	1.04
25:M:191:LYS:NZ	25:M:234:GLU:CG	2.21	1.04
11:f:228:LYS:HB3	11:f:231:LEU:HD13	1.39	1.04
11:f:827:PRO:HA	11:f:862:ILE:HG12	1.35	1.04
18:e:47:ASN:HA	18:e:51:ASP:HB3	1.40	1.04
24:L:205:LEU:HD13	24:L:233:LEU:HD22	1.39	1.04
19:g:38:THR:HA	19:g:169:GLY:HA3	1.40	1.04
24:l:157:ARG:HD2	25:m:56:LYS:HD2	1.37	1.04
1:U:172:ASP:HB3	1:U:174:PRO:HD3	1.37	1.04
17:F:175:MET:HA	17:F:250:LYS:HE3	1.35	1.03
11:f:773:LYS:HD2	11:f:776:LEU:HD13	1.34	1.03
13:B:105:THR:O	13:B:107:MET:N	1.90	1.03
9:c:233:ASP:O	9:c:237:HIS:HB2	1.59	1.02
26:N:40:ARG:HD3	26:N:103:TRP:HE3	1.23	1.02
3:W:272:LEU:HD12	3:W:336:PRO:HB2	1.41	1.02
8:b:141:ILE:CG1	8:b:171:VAL:HG21	1.89	1.02
11:f:331:LEU:HD13	11:f:808:ASN:HD21	1.11	1.02
11:f:331:LEU:CD1	11:f:808:ASN:HD21	1.69	1.02
16:E:372:ARG:HD3	25:M:170:GLN:HB3	1.40	1.02
24:l:156:CYS:HA	25:m:58:TYR:HA	1.41	1.02
33:v:166:PHE:CE2	33:v:179:ARG:CG	2.37	1.02
1:U:725:MET:HE1	9:c:182:GLY:N	1.75	1.02
5:Y:189:VAL:HG23	5:Y:192:ARG:H	1.24	1.02
25:M:191:LYS:NZ	25:M:234:GLU:CB	2.19	1.02
11:f:213:GLN:O	11:f:217:LEU:HB2	1.60	1.01
11:f:702:PRO:HB2	11:f:787:LEU:CD1	1.90	1.01
11:f:754:LYS:HA	33:v:213:ILE:CD1	1.90	1.01
33:v:156:MET:HE1	33:v:184:HIS:HA	1.42	1.01
11:f:529:SER:CB	11:f:574:GLU:HG3	1.89	1.01
17:F:371:ARG:HB3	17:F:371:ARG:HH11	1.17	1.01
14:C:45:LEU:HB3	15:D:61:ILE:HG21	1.40	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:33:LEU:HA	8:b:18:ASN:HB2	1.43	1.01
11:f:72:ARG:HH22	11:f:83:ARG:HG2	1.25	1.01
16:E:264:MET:SD	16:E:275:MET:SD	2.57	1.01
1:U:503:GLN:HB2	1:U:508:THR:HG21	1.40	1.01
1:U:583:MET:HE3	1:U:618:ALA:HA	1.43	1.01
1:U:725:MET:CE	9:c:182:GLY:N	2.22	1.01
23:K:36:THR:HA	23:K:171:GLY:HA3	1.40	1.01
24:l:205:LEU:HD13	24:l:233:LEU:HD22	1.39	1.01
11:f:718:ASP:O	11:f:753:ALA:HB1	1.59	1.00
33:v:166:PHE:HE2	33:v:179:ARG:NE	1.58	1.00
14:C:204:ALA:HA	14:C:245:ILE:HD12	1.43	1.00
2:V:495:ARG:HB2	14:C:44:ARG:HG3	1.40	1.00
17:F:364:ARG:CD	33:v:180:TYR:CD1	2.44	1.00
11:f:754:LYS:CB	33:v:213:ILE:HD12	1.91	1.00
11:f:764:LEU:HD11	11:f:773:LYS:O	1.61	1.00
12:A:219:GLY:HA2	35:A:501:ATP:C5'	1.90	1.00
13:B:105:THR:O	13:B:107:MET:HG2	1.60	1.00
15:D:125:LYS:CB	15:D:126:PRO:CD	2.25	1.00
23:K:21:LEU:HD13	23:K:24:VAL:HB	1.42	1.00
1:U:770:TRP:CE2	9:c:183:HIS:CE1	2.50	1.00
11:f:718:ASP:CB	11:f:719:PRO:CD	2.39	1.00
17:F:364:ARG:HH21	33:v:180:TYR:HD1	1.00	1.00
11:f:718:ASP:HB3	11:f:719:PRO:HD3	1.41	1.00
1:U:583:MET:HE1	1:U:602:LEU:HG	1.02	0.99
12:A:219:GLY:CA	35:A:501:ATP:H5'1	1.91	0.99
16:E:265:ASP:CB	16:E:294:ARG:HH21	1.74	0.99
17:F:368:ILE:O	17:F:371:ARG:CD	2.09	0.99
11:f:757:ASN:HB3	33:v:213:ILE:CA	1.91	0.99
14:C:70:GLY:HA2	14:C:118:ASN:ND2	1.78	0.99
25:M:191:LYS:HZ3	25:M:234:GLU:CG	1.73	0.99
6:Z:94:TRP:HH2	6:Z:105:ASP:OD1	1.44	0.99
12:A:198:PRO:HB2	33:v:202:ASN:ND2	1.78	0.99
19:G:38:THR:HA	19:G:169:GLY:HA3	1.40	0.99
19:G:138:MET:HB3	19:G:154:CYS:HB3	1.44	0.98
3:W:454:ASN:HD21	6:Z:221:PRO:HG3	1.25	0.98
11:f:373:ALA:HB2	11:f:744:MET:HA	1.43	0.98
19:G:141:ILE:HG22	19:G:151:VAL:HG22	1.46	0.98
14:C:83:LYS:HG2	14:C:105:ILE:HD11	1.43	0.98
17:F:364:ARG:HG2	33:v:180:TYR:CD1	1.99	0.98
33:v:166:PHE:HD2	33:v:179:ARG:HG3	1.20	0.98
1:U:580:ARG:HD2	1:U:613:ASP:CB	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:348:ILE:HD13	11:f:377:VAL:HG13	1.45	0.98
1:U:236:LEU:HD13	1:U:245:ALA:HA	1.46	0.98
11:f:206:ASP:HA	11:f:246:SER:HB3	1.43	0.98
27:O:7:VAL:HG22	27:O:12:ILE:HG12	1.45	0.98
11:f:757:ASN:HB3	33:v:213:ILE:O	1.64	0.98
23:k:36:THR:HA	23:k:171:GLY:HA3	1.40	0.98
2:V:263:LEU:HA	10:d:121:ARG:HG2	1.46	0.98
3:W:401:THR:HG23	3:W:402:ILE:HD12	1.42	0.97
14:C:262:GLY:HA2	14:C:270:GLN:HE22	1.26	0.97
33:v:184:HIS:HE1	33:v:186:CYS:HB2	1.28	0.97
1:U:725:MET:HE1	9:c:182:GLY:H	1.24	0.97
12:A:52:ILE:HG12	13:B:69:LYS:HA	1.46	0.97
4:X:328:ASP:HA	4:X:331:LEU:HD13	1.45	0.97
23:k:21:LEU:HD13	23:k:24:VAL:HB	1.42	0.97
7:a:194:GLN:HA	7:a:225:LEU:HB3	1.45	0.97
11:f:634:LYS:HD2	11:f:637:LYS:HD2	1.47	0.97
12:A:41:TYR:HB2	12:A:44:GLN:HB3	1.44	0.97
25:M:173:LYS:HA	25:M:176:ILE:HD12	1.47	0.97
1:U:803:LYS:HB2	1:U:875:PHE:HA	1.41	0.97
9:c:175:ARG:HG3	9:c:181:LEU:HD23	1.43	0.97
25:m:173:LYS:HA	25:m:176:ILE:HD12	1.47	0.97
8:b:51:LEU:HD11	8:b:61:LEU:HB2	1.46	0.97
10:d:89:LEU:HB3	10:d:90:PRO:CD	1.94	0.97
16:E:125:GLU:HG3	17:F:321:GLN:HE22	1.27	0.97
17:F:225:MET:CB	17:F:233:LYS:NZ	2.28	0.97
29:Q:197:PRO:HD2	29:q:199:GLN:HA	1.43	0.97
19:g:141:ILE:HG22	19:g:151:VAL:HG22	1.46	0.97
9:c:115:HIS:HB3	9:c:118:PHE:HB2	1.47	0.96
11:f:395:GLY:O	11:f:399:LEU:HB2	1.64	0.96
1:U:9:ILE:H	1:U:9:ILE:HD12	1.30	0.96
7:a:214:GLY:HA2	7:a:217:LEU:HD13	1.47	0.96
14:C:172:PRO:HA	14:C:182:GLN:HE22	1.29	0.96
1:U:107:HIS:HA	1:U:110:LYS:HE3	1.47	0.96
12:A:49:GLU:HB2	13:B:65:LEU:HD13	1.46	0.96
19:g:138:MET:HB3	19:g:154:CYS:HB3	1.44	0.96
17:F:233:LYS:HE2	17:F:354:PHE:CD2	1.99	0.96
10:d:78:LEU:HD13	10:d:98:LEU:HD21	1.45	0.96
27:O:163:ILE:HG23	27:O:170:GLY:HA2	1.47	0.96
1:U:583:MET:CE	1:U:602:LEU:HG	1.96	0.96
8:b:171:VAL:HG11	8:b:183:LEU:HD21	1.44	0.96
1:U:552:ILE:HD11	1:U:581:SER:OG	1.66	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:757:ASN:HB3	33:v:213:ILE:C	1.91	0.96
7:a:371:ALA:HA	7:a:374:ILE:HD13	1.47	0.95
11:f:288:VAL:HA	11:f:291:GLN:HG2	1.48	0.95
14:C:127:LEU:HD13	15:D:96:VAL:HG21	0.96	0.95
1:U:38:ILE:HA	1:U:41:SER:HB3	1.46	0.95
2:V:400:HIS:HA	10:d:145:GLU:HG3	1.45	0.95
1:U:59:PHE:HA	1:U:62:LEU:HD13	1.48	0.95
1:U:173:VAL:HG13	1:U:177:LEU:HD13	1.48	0.95
11:f:838:ARG:NH2	12:A:364:VAL:O	1.97	0.95
1:U:725:MET:CE	9:c:182:GLY:H	1.78	0.95
11:f:347:ASP:O	11:f:351:THR:OG1	1.84	0.95
11:f:399:LEU:HD11	11:f:440:ILE:HG12	1.48	0.95
28:P:107:PRO:HG2	28:P:124:LEU:HB2	1.49	0.95
16:E:118:LEU:HD22	16:E:214:LEU:HD13	1.49	0.95
1:U:252:LEU:O	1:U:256:ALA:HB3	1.67	0.95
7:a:245:VAL:HG11	7:a:301:LYS:HD3	1.46	0.95
1:U:97:VAL:HG23	1:U:100:ILE:HD11	1.49	0.95
11:f:691:PRO:HA	11:f:694:LEU:HB2	1.46	0.95
8:b:144:GLY:O	8:b:173:VAL:CG2	2.15	0.95
27:o:7:VAL:HG22	27:o:12:ILE:HG12	1.45	0.94
1:U:770:TRP:NE1	9:c:183:HIS:NE2	2.15	0.94
3:W:90:LEU:HD22	3:W:97:LEU:HB2	1.49	0.94
5:Y:215:ASP:HA	5:Y:219:PHE:HB3	1.49	0.94
17:F:225:MET:CB	17:F:233:LYS:HZ1	1.80	0.94
11:f:223:GLU:HA	13:B:60:LEU:HD21	1.49	0.94
17:F:364:ARG:CG	33:v:180:TYR:CD1	2.51	0.94
11:f:609:VAL:HG12	13:B:74:MET:HE1	1.50	0.94
14:C:134:LEU:HD22	14:C:230:MET:HA	1.50	0.94
27:o:163:ILE:HG23	27:o:170:GLY:HA2	1.47	0.94
1:U:479:LEU:HD11	1:U:510:GLU:HB3	1.49	0.94
5:Y:275:LEU:HD21	5:Y:296:VAL:HG13	1.46	0.94
9:c:141:VAL:HG22	9:c:161:ARG:HD3	1.47	0.94
17:F:265:ALA:HA	17:F:312:GLU:HG2	1.50	0.94
2:V:131:LEU:HD13	2:V:158:PRO:HA	1.46	0.94
2:V:477:HIS:HD1	10:d:249:TYR:HH	1.16	0.94
15:D:283:ARG:HB3	15:D:287:ARG:HH11	1.33	0.94
25:M:191:LYS:HZ2	25:M:234:GLU:HB3	0.78	0.94
11:f:107:LYS:HA	11:f:111:GLU:HB3	1.47	0.93
11:f:171:GLN:HG3	11:f:179:VAL:HG22	1.49	0.93
16:E:291:ARG:HE	16:E:294:ARG:HD2	1.22	0.93
3:W:357:ARG:HB3	3:W:361:HIS:CE1	2.03	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:C:185:GLY:HA3	14:C:311:ILE:HG22	1.46	0.93
12:A:396:ALA:HB1	12:A:401:ARG:HB3	1.49	0.93
23:K:167:ALA:H	24:L:56:LEU:HD13	1.33	0.93
28:p:107:PRO:HG2	28:p:124:LEU:HB2	1.49	0.93
21:i:143:TYR:HB2	21:i:146:GLN:HE21	1.32	0.93
23:k:192:LYS:HA	23:k:195:ILE:HD12	1.51	0.93
11:f:298:LEU:HD12	11:f:301:HIS:NE2	1.82	0.93
11:f:766:GLN:CD	11:f:807:ARG:NH1	2.26	0.93
11:f:827:PRO:HD3	11:f:850:VAL:HG22	1.51	0.93
11:f:757:ASN:CA	33:v:213:ILE:HG13	1.99	0.93
15:D:199:PRO:HG3	15:D:329:ARG:HG3	1.51	0.93
17:F:368:ILE:O	17:F:371:ARG:HD2	1.67	0.93
11:f:298:LEU:HD11	11:f:301:HIS:CE1	2.04	0.92
33:v:166:PHE:HE2	33:v:179:ARG:HD3	1.30	0.92
3:W:135:LYS:HD3	3:W:144:ARG:HE	1.33	0.92
24:l:26:MET:HE1	24:l:148:CYS:HB2	1.51	0.92
5:Y:189:VAL:HB	5:Y:196:GLN:HE21	1.32	0.92
6:Z:94:TRP:CH2	6:Z:105:ASP:OD1	2.21	0.92
11:f:64:GLY:HA2	11:f:67:ASP:HB3	1.50	0.92
11:f:831:VAL:HG13	11:f:861:THR:HB	1.50	0.92
11:f:766:GLN:HE22	11:f:807:ARG:NH1	1.63	0.92
2:V:95:LEU:HA	2:V:137:GLU:HB3	1.51	0.92
7:a:12:GLN:HG3	7:a:22:TRP:HB3	1.50	0.92
2:V:333:ILE:HD11	2:V:345:ARG:HB2	1.49	0.92
25:m:193:VAL:HA	25:m:196:ILE:HD13	1.52	0.92
2:V:345:ARG:HH22	2:V:357:LEU:HA	1.33	0.92
3:W:315:MET:HE3	3:W:362:ASN:ND2	1.84	0.92
8:b:141:ILE:HA	8:b:171:VAL:CG2	2.00	0.92
13:B:264:PRO:HG3	13:B:308:THR:HA	1.52	0.92
17:F:363:ALA:HB2	17:F:385:ALA:HB2	1.52	0.92
2:V:323:GLY:HA2	18:e:6:GLN:HB2	1.50	0.92
16:E:216:ARG:HG3	16:E:263:GLN:HE22	1.35	0.92
12:A:355:PHE:O	12:A:359:ALA:HB3	1.69	0.91
23:k:236:GLU:HA	23:k:239:LYS:HE3	1.52	0.91
1:U:725:MET:HE1	9:c:182:GLY:CA	1.92	0.91
24:L:26:MET:HE1	24:L:148:CYS:HB2	1.51	0.91
25:M:193:VAL:HA	25:M:196:ILE:HD13	1.52	0.91
1:U:220:LEU:HG	1:U:225:ASP:HB3	1.52	0.91
11:f:718:ASP:HB2	11:f:719:PRO:HD2	1.52	0.91
11:f:869:THR:C	11:f:871:PRO:HD3	1.95	0.91
25:M:198:TYR:HE2	25:M:211:LEU:HD22	1.33	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:352:SER:HB3	18:e:6:GLN:HE22	1.36	0.91
10:d:207:THR:O	10:d:211:LYS:HB2	1.70	0.91
16:E:98:VAL:HA	16:E:110:TYR:HA	1.51	0.91
2:V:280:ALA:HB1	2:V:284:GLU:HB3	1.50	0.91
12:A:314:ASN:HD21	33:v:203:PRO:HD3	1.09	0.91
1:U:376:MET:HA	1:U:739:ALA:HA	1.48	0.91
14:C:127:LEU:CD1	15:D:112:TYR:CE1	2.53	0.91
21:I:143:TYR:HB2	21:I:146:GLN:HE21	1.32	0.91
25:M:235:ALA:O	25:M:239:ALA:CB	2.19	0.91
26:N:40:ARG:CD	26:N:103:TRP:HE3	1.83	0.91
9:c:192:LEU:HA	9:c:196:LEU:HB2	1.53	0.91
11:f:348:ILE:HG22	11:f:751:TYR:HE1	1.35	0.91
3:W:89:LEU:HD11	3:W:93:ARG:HD2	1.53	0.91
6:Z:121:LEU:HD21	6:Z:138:TYR:HB2	1.51	0.91
29:Q:199:GLN:HA	29:q:197:PRO:HD2	1.49	0.91
5:Y:182:VAL:HA	5:Y:186:LEU:HD13	1.53	0.91
11:f:302:GLY:HA2	11:f:317:LEU:HD11	1.51	0.91
5:Y:287:LEU:HD13	5:Y:290:PRO:O	1.69	0.90
15:D:385:LEU:HD23	15:D:398:ASP:HA	1.50	0.90
32:t:96:MET:HE1	32:t:106:LEU:HD12	1.53	0.90
18:e:63:HIS:HA	18:e:66:LYS:HB2	1.53	0.90
23:K:192:LYS:HA	23:K:195:ILE:HD12	1.51	0.90
25:M:191:LYS:NZ	25:M:234:GLU:HG3	1.84	0.90
11:f:711:SER:HA	11:f:749:ALA:HB2	1.51	0.90
17:F:183:GLU:HB3	17:F:239:ALA:HA	1.52	0.90
33:v:156:MET:HE3	33:v:184:HIS:HA	1.53	0.90
33:v:191:LYS:O	33:v:194:ALA:CB	2.18	0.90
1:U:62:LEU:HD21	1:U:87:LEU:HB3	1.51	0.90
8:b:54:LEU:HD13	8:b:84:ILE:HA	1.51	0.90
17:F:233:LYS:HE2	17:F:354:PHE:HD2	1.30	0.90
33:v:166:PHE:CE2	33:v:179:ARG:HD3	2.00	0.90
3:W:38:GLY:HA2	3:W:44:ILE:HG21	1.53	0.90
17:F:235:LEU:HD21	35:F:501:ATP:H2'	1.52	0.90
25:M:237:LYS:HA	25:M:237:LYS:CE	2.02	0.90
33:v:156:MET:CE	33:v:184:HIS:CA	2.49	0.90
6:Z:126:VAL:HB	9:c:212:LEU:HD11	1.52	0.90
7:a:45:VAL:HG21	7:a:79:ILE:HG13	1.54	0.90
8:b:174:PRO:CD	8:b:175:PRO:CD	2.47	0.90
11:f:560:LEU:O	11:f:564:LEU:HB2	1.72	0.90
13:B:312:LEU:O	13:B:316:LEU:HB2	1.72	0.89
24:l:14:SER:HB2	24:l:18:ARG:H	1.35	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:259:LEU:HD11	2:V:294:ARG:HD2	1.54	0.89
1:U:188:MET:HE3	1:U:194:ARG:HA	1.55	0.89
1:U:768:GLN:HB2	1:U:775:LEU:HD12	1.53	0.89
11:f:94:LYS:HB3	11:f:109:ILE:HG21	1.54	0.89
11:f:127:SER:HA	11:f:131:MET:HB2	1.53	0.89
21:i:10:THR:HG22	22:j:125:ARG:HB2	1.51	0.89
8:b:109:ILE:HB	8:b:138:VAL:HG22	1.53	0.89
11:f:305:LEU:HB2	11:f:317:LEU:HD22	1.53	0.89
23:K:236:GLU:HA	23:K:239:LYS:HE3	1.52	0.89
23:k:99:HIS:HB2	23:k:107:MET:HE3	1.54	0.89
1:U:580:ARG:CD	1:U:613:ASP:HB3	2.02	0.89
3:W:173:THR:HG23	3:W:182:ARG:HH11	1.37	0.89
5:Y:36:ALA:O	5:Y:40:GLU:HB2	1.71	0.89
11:f:591:ALA:HA	11:f:594:LEU:HD23	1.54	0.89
31:s:46:LEU:HD11	31:s:52:ILE:HB	1.55	0.89
6:Z:140:SER:HA	6:Z:155:PHE:HA	1.54	0.89
9:c:56:LEU:HD11	9:c:92:GLN:HE22	1.37	0.89
11:f:739:ALA:HB1	11:f:743:ALA:HB2	1.53	0.89
11:f:146:GLY:HA2	11:f:150:GLU:HG3	1.55	0.89
13:B:230:THR:HG21	13:B:353:PHE:HB3	1.55	0.89
1:U:681:ASN:HD21	9:c:182:GLY:CA	1.84	0.88
5:Y:104:MET:HG3	5:Y:127:THR:HB	1.55	0.88
10:d:106:LEU:HD11	10:d:114:GLU:HB3	1.55	0.88
11:f:486:GLY:HA2	11:f:525:ILE:HG13	1.55	0.88
1:U:501:LEU:HD11	1:U:548:LEU:HD11	1.55	0.88
14:C:165:ILE:HA	14:C:290:LYS:HE3	1.54	0.88
28:p:113:ASP:HB2	28:p:118:LYS:HB3	1.55	0.88
1:U:13:ASP:HB2	10:d:73:ARG:HD3	1.56	0.88
4:X:316:ASP:HB2	4:X:319:ILE:HG22	1.54	0.88
32:T:96:MET:HE1	32:T:106:LEU:HD12	1.53	0.88
11:f:330:PHE:N	11:f:333:LEU:HD23	1.88	0.88
11:f:513:GLU:HG2	11:f:794:ALA:HB2	1.53	0.88
33:v:166:PHE:O	33:v:173:LEU:HA	1.74	0.88
1:U:580:ARG:HD2	1:U:613:ASP:HB3	1.54	0.88
5:Y:196:GLN:HA	5:Y:200:LEU:HD23	1.51	0.88
11:f:754:LYS:HA	33:v:213:ILE:HD11	1.56	0.88
31:s:16:ALA:HB2	31:s:121:VAL:HG23	1.55	0.88
12:A:222:LYS:HA	12:A:343:PHE:HE2	1.39	0.88
24:L:14:SER:HB2	24:L:18:ARG:H	1.35	0.88
11:f:384:ALA:HA	11:f:419:LEU:HB3	1.56	0.88
14:C:161:ILE:HA	14:C:164:VAL:HG12	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:406:ASN:HD21	9:c:253:LYS:HD2	1.39	0.88
6:Z:263:ALA:HB1	9:c:288:VAL:HG13	1.55	0.88
25:M:52:LEU:HD23	25:M:209:PHE:HB3	1.56	0.88
11:f:300:ARG:HB3	11:f:492:SER:HA	1.56	0.88
31:S:27:THR:HB	31:S:40:SER:H	1.37	0.88
5:Y:181:LYS:HD2	5:Y:209:THR:HB	1.55	0.87
11:f:41:LYS:O	11:f:45:LEU:HB3	1.74	0.87
11:f:437:GLU:HG3	11:f:440:ILE:HD12	1.56	0.87
13:B:143:LEU:HD11	13:B:162:VAL:HG11	1.54	0.87
20:H:118:MET:HE2	20:H:151:PRO:HA	1.56	0.87
23:K:99:HIS:HB2	23:K:107:MET:HE3	1.54	0.87
5:Y:333:GLU:HA	5:Y:336:ARG:HE	1.39	0.87
16:E:199:VAL:HG23	16:E:201:SER:H	1.37	0.87
1:U:337:LEU:HD21	1:U:789:ILE:HG21	1.53	0.87
3:W:179:LYS:HG2	3:W:212:LYS:HZ1	1.40	0.87
7:a:226:ARG:HB3	7:a:234:ILE:HD11	1.56	0.87
31:s:27:THR:HB	31:s:40:SER:H	1.37	0.87
13:B:105:THR:CB	13:B:106:PRO:CD	2.29	0.87
20:h:118:MET:HE2	20:h:151:PRO:HA	1.56	0.87
11:f:766:GLN:NE2	11:f:807:ARG:HH11	1.68	0.87
32:T:99:ARG:HG2	32:T:106:LEU:HG	1.57	0.87
3:W:308:LEU:O	3:W:312:MET:SD	2.33	0.87
3:W:443:THR:HG22	6:Z:229:GLN:HE22	1.39	0.87
8:b:84:ILE:HD11	8:b:113:VAL:HG13	1.56	0.87
3:W:63:THR:HG22	3:W:71:VAL:HG11	1.57	0.87
3:W:34:LEU:HB3	3:W:47:LEU:HD13	1.56	0.87
11:f:42:GLU:HG2	11:f:46:SER:HB3	1.54	0.87
13:B:234:LEU:HD11	37:B:501:ADP:H2'	1.55	0.87
17:F:387:CYS:HB3	24:L:166:GLN:HG2	1.57	0.87
19:G:80:MET:HE2	19:G:87:SER:HA	1.57	0.87
3:W:128:LEU:HD13	3:W:131:VAL:HG21	1.57	0.87
7:a:169:HIS:HB3	7:a:207:GLY:HA2	1.57	0.87
3:W:53:GLN:HA	3:W:103:LYS:HE3	1.55	0.86
3:W:454:ASN:ND2	6:Z:221:PRO:HG2	1.88	0.86
7:a:135:ILE:HG12	7:a:158:LEU:HD13	1.57	0.86
25:M:191:LYS:HD2	25:M:234:GLU:CB	2.04	0.86
31:S:46:LEU:HD11	31:S:52:ILE:HB	1.55	0.86
24:l:204:ASP:HB3	24:l:239:ARG:HH22	1.39	0.86
15:D:181:VAL:HG13	15:D:306:LYS:HG3	1.57	0.86
24:L:212:ILE:HG22	24:L:214:ILE:HD11	1.57	0.86
17:F:230:GLY:HA3	17:F:392:ASN:HD22	1.36	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:M:234:GLU:O	25:M:238:TYR:HB2	1.75	0.86
31:S:16:ALA:HB2	31:S:121:VAL:HG23	1.55	0.86
33:v:153:ARG:NH2	33:v:160:LYS:HD3	1.90	0.86
2:V:490:SER:HA	6:Z:275:LEU:HD21	1.55	0.86
11:f:575:ALA:O	11:f:579:ALA:HB3	1.76	0.86
2:V:367:VAL:HG22	2:V:398:LEU:HD21	1.57	0.86
25:M:240:LYS:HA	25:M:240:LYS:CE	2.05	0.86
28:P:113:ASP:HB2	28:P:118:LYS:HB3	1.55	0.86
10:d:122:LEU:HD13	10:d:125:LYS:HB2	1.56	0.86
12:A:99:THR:HG22	12:A:115:VAL:HA	1.56	0.86
12:A:198:PRO:HB3	33:v:202:ASN:ND2	1.81	0.86
13:B:151:LEU:HB2	13:B:161:GLY:H	1.38	0.86
14:C:196:LYS:HD3	14:C:294:ALA:HB1	1.58	0.86
15:D:264:ILE:HD12	15:D:309:MET:HE2	1.57	0.86
17:F:371:ARG:HH11	17:F:371:ARG:CB	1.88	0.86
25:M:179:LEU:HD11	25:M:192:GLU:CD	2.00	0.86
9:c:34:SER:HB3	9:c:70:ILE:HA	1.56	0.86
11:f:757:ASN:HA	33:v:213:ILE:CG1	2.03	0.86
24:l:41:LYS:HG2	24:l:180:MET:HE3	1.57	0.86
7:a:34:TRP:HD1	8:b:18:ASN:HA	1.41	0.86
17:F:196:GLN:HE21	33:v:164:THR:HG22	1.38	0.86
1:U:443:LEU:HA	1:U:446:LEU:HD13	1.58	0.86
6:Z:105:ASP:OD1	6:Z:105:ASP:O	1.94	0.86
7:a:347:LYS:HA	7:a:350:LYS:HZ2	1.41	0.86
14:C:70:GLY:CA	14:C:118:ASN:ND2	2.39	0.86
21:I:35:LEU:HG	21:I:46:ALA:HB3	1.58	0.86
19:g:80:MET:HE2	19:g:87:SER:HA	1.57	0.86
33:v:154:CYS:SG	33:v:174:PHE:HA	2.15	0.86
5:Y:104:MET:HE1	5:Y:126:LYS:HE3	1.57	0.86
11:f:75:LEU:HG	11:f:77:GLU:HG2	1.57	0.86
23:k:48:LEU:HD11	23:k:77:ALA:HB2	1.55	0.86
24:l:212:ILE:HG22	24:l:214:ILE:HD11	1.58	0.86
9:c:25:VAL:HG22	9:c:174:PRO:HD3	1.57	0.85
32:t:99:ARG:HG2	32:t:106:LEU:HG	1.57	0.85
13:B:311:GLU:O	13:B:315:GLN:HB3	1.76	0.85
16:E:212:ALA:HB1	16:E:259:GLU:HG3	1.58	0.85
11:f:718:ASP:HB3	11:f:719:PRO:CD	2.04	0.85
23:K:48:LEU:HD11	23:K:77:ALA:HB2	1.55	0.85
33:v:166:PHE:CE2	33:v:179:ARG:NE	2.40	0.85
14:C:161:ILE:HG22	14:C:203:VAL:HG11	1.58	0.85
4:X:344:ARG:HG3	4:X:386:ILE:HG12	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:179:ARG:NH2	5:Y:209:THR:HG23	1.91	0.85
32:T:92:LEU:HD11	32:T:110:MET:HE1	1.59	0.85
22:j:33:VAL:HG12	22:j:160:ALA:HA	1.58	0.85
3:W:357:ARG:O	3:W:361:HIS:CD2	2.30	0.85
11:f:513:GLU:HG3	11:f:553:THR:HG21	1.56	0.85
14:C:258:ARG:HD2	14:C:302:ASP:HB3	1.59	0.85
16:E:291:ARG:NE	16:E:294:ARG:CD	2.35	0.85
17:F:251:LEU:HD23	17:F:285:ILE:HG12	1.59	0.85
24:L:204:ASP:HB3	24:L:239:ARG:HH22	1.39	0.85
1:U:205:TYR:HB3	1:U:212:ASP:HB2	1.57	0.85
13:B:291:GLY:HA3	13:B:309:MET:HE2	1.58	0.85
25:m:235:ALA:O	25:m:239:ALA:HB2	1.77	0.85
28:p:26:ARG:HH21	28:p:38:ASP:HA	1.41	0.85
11:f:754:LYS:HA	33:v:213:ILE:HD12	1.59	0.85
23:K:212:ALA:HA	23:K:234:LEU:HD22	1.59	0.85
3:W:136:ILE:HG21	3:W:140:ILE:HD11	1.58	0.85
5:Y:13:LYS:HA	5:Y:16:ASP:HB2	1.56	0.85
23:k:50:VAL:HG11	23:k:66:LYS:HB2	1.59	0.85
2:V:167:LEU:HD12	2:V:169:LEU:H	1.42	0.84
2:V:342:ILE:HG12	2:V:368:ARG:HB2	1.58	0.84
9:c:75:MET:HB2	9:c:76:PRO:CD	2.07	0.84
23:K:221:GLN:HB2	23:K:224:GLN:HB3	1.57	0.84
28:P:26:ARG:HH21	28:P:38:ASP:HA	1.41	0.84
31:S:33:PHE:HA	27:o:167:LEU:HD12	1.56	0.84
21:i:35:LEU:HG	21:i:46:ALA:HB3	1.58	0.84
2:V:179:LYS:HE3	2:V:214:HIS:HB2	1.59	0.84
11:f:405:HIS:HB3	11:f:796:LEU:HD22	1.57	0.84
5:Y:50:MET:HG3	5:Y:74:LYS:HB3	1.57	0.84
8:b:53:THR:HG22	8:b:59:GLU:H	1.42	0.84
11:f:380:PHE:HB3	11:f:755:ASP:HB3	1.59	0.84
11:f:754:LYS:CA	33:v:213:ILE:HD12	2.06	0.84
14:C:155:ASP:HA	14:C:158:ILE:HD12	1.57	0.84
3:W:231:ILE:O	3:W:235:GLN:HB2	1.77	0.84
11:f:612:LEU:HD21	11:f:636:ASP:HA	1.57	0.84
14:C:351:MET:HE3	14:C:387:VAL:HG22	1.59	0.84
16:E:291:ARG:CZ	16:E:294:ARG:HD2	2.06	0.84
18:e:42:ASN:O	18:e:46:ASP:CB	2.25	0.84
2:V:414:TYR:HD2	2:V:417:ILE:HD13	1.43	0.84
22:J:115:LYS:HD3	22:J:149:PRO:HA	1.57	0.84
33:v:184:HIS:CE1	33:v:186:CYS:HB2	2.11	0.84
11:f:452:ASN:HD22	11:f:459:CYS:HB3	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:646:MET:HG2	13:B:67:ARG:HE	1.41	0.84
15:D:92:PHE:CD2	15:D:124:LEU:CD1	2.60	0.84
16:E:122:MET:HE1	16:E:218:MET:HE3	1.58	0.84
16:E:265:ASP:HB2	16:E:294:ARG:HH21	1.42	0.84
14:C:250:GLU:HG3	14:C:295:THR:HA	1.59	0.84
21:i:73:ALA:HB3	21:i:137:ILE:HD11	1.59	0.84
8:b:171:VAL:CG1	8:b:183:LEU:HD21	2.08	0.84
9:c:151:VAL:HG21	15:D:80:LYS:HB2	1.57	0.84
11:f:809:ILE:HG23	11:f:810:ILE:HG23	1.57	0.84
11:f:810:ILE:HG22	11:f:856:ALA:H	1.42	0.84
24:L:41:LYS:HG2	24:L:180:MET:HE3	1.57	0.84
27:O:20:ALA:HB3	27:O:28:ASP:HB3	1.58	0.84
23:k:212:ALA:HA	23:k:234:LEU:HD22	1.59	0.84
33:v:174:PHE:CZ	33:v:184:HIS:HD2	1.95	0.84
1:U:62:LEU:HD11	1:U:87:LEU:HB2	1.59	0.84
1:U:623:GLY:HA3	1:U:658:ILE:HG13	1.58	0.84
5:Y:223:THR:HA	5:Y:226:VAL:HG12	1.60	0.84
22:j:32:ALA:HB2	22:j:45:VAL:HG23	1.60	0.84
1:U:580:ARG:HG2	1:U:617:ALA:HB3	1.57	0.84
3:W:55:ARG:HH11	3:W:75:TYR:HB3	1.42	0.84
11:f:330:PHE:HA	11:f:333:LEU:HB3	1.59	0.84
29:q:85:ARG:HB2	29:q:118:MET:HE1	1.60	0.84
2:V:451:ILE:HG13	2:V:458:VAL:HG22	1.59	0.83
22:j:115:LYS:HD3	22:j:149:PRO:HA	1.57	0.83
23:k:199:LEU:HA	23:k:202:LEU:HD12	1.60	0.83
25:m:54:LEU:HB2	25:m:57:LEU:HG	1.59	0.83
1:U:583:MET:CE	1:U:618:ALA:HA	2.08	0.83
3:W:315:MET:HE3	3:W:362:ASN:HD21	1.41	0.83
11:f:99:LEU:HG	11:f:101:PRO:HD2	1.59	0.83
11:f:178:LYS:HD3	12:A:402:LYS:HD2	1.58	0.83
12:A:72:LEU:HD11	13:B:103:ARG:HH12	1.43	0.83
13:B:264:PRO:HB3	13:B:311:GLU:HG2	1.58	0.83
27:O:6:VAL:HG23	27:O:124:TYR:HB3	1.59	0.83
21:i:180:LYS:HD2	21:i:183:GLU:HB2	1.60	0.83
1:U:583:MET:HE3	1:U:618:ALA:CA	2.08	0.83
3:W:340:VAL:HA	3:W:350:ARG:HD2	1.58	0.83
11:f:291:GLN:HA	11:f:320:ILE:HD12	1.59	0.83
16:E:317:ALA:HA	16:E:320:ILE:HD12	1.58	0.83
23:K:199:LEU:HA	23:K:202:LEU:HD12	1.59	0.83
27:o:5:GLY:HA3	27:o:14:LEU:HD23	1.61	0.83
5:Y:217:LYS:HG3	5:Y:218:THR:HG23	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:331:LEU:HD11	11:f:808:ASN:ND2	1.93	0.83
14:C:297:ARG:HH21	14:C:299:ASP:HB2	1.44	0.83
19:G:132:ARG:HD3	25:M:124:LEU:HD23	1.60	0.83
20:H:9:SER:HA	20:H:125:GLY:HA2	1.61	0.83
11:f:757:ASN:CB	33:v:213:ILE:HA	2.07	0.83
22:J:33:VAL:HG12	22:J:160:ALA:HA	1.58	0.83
24:L:92:CYS:HA	24:L:103:LEU:HD12	1.60	0.83
23:k:221:GLN:HB2	23:k:224:GLN:HB3	1.57	0.83
3:W:62:SER:HB2	3:W:67:LEU:HB3	1.61	0.83
4:X:134:VAL:HG11	4:X:149:LEU:HD22	1.61	0.83
12:A:161:VAL:HA	12:A:164:MET:HE3	1.60	0.83
22:J:32:ALA:HB2	22:J:45:VAL:HG23	1.59	0.83
17:F:364:ARG:HG2	33:v:180:TYR:HE1	1.36	0.83
25:M:54:LEU:HB2	25:M:57:LEU:HG	1.59	0.83
3:W:59:ASP:O	3:W:63:THR:OG1	1.96	0.83
4:X:255:LEU:HD22	4:X:267:VAL:HG13	1.59	0.83
11:f:757:ASN:OD1	33:v:213:ILE:CB	2.26	0.83
15:D:103:VAL:HG11	15:D:139:LEU:HD21	1.59	0.83
16:E:312:ILE:HA	16:E:315:ILE:HD12	1.58	0.83
32:T:22:ILE:HD12	32:T:50:MET:HE3	1.59	0.83
2:V:139:MET:HA	2:V:143:ALA:HB2	1.61	0.83
5:Y:198:ALA:HB1	5:Y:230:ALA:HB2	1.61	0.83
1:U:188:MET:HG2	1:U:194:ARG:HB2	1.61	0.82
10:d:52:ARG:HG2	10:d:81:TYR:HD2	1.42	0.82
11:f:181:ARG:HA	11:f:184:LEU:HD13	1.60	0.82
11:f:348:ILE:CB	11:f:751:TYR:CE1	2.61	0.82
13:B:375:ALA:H	13:B:414:VAL:HB	1.43	0.82
17:F:196:GLN:HG2	33:v:164:THR:HG22	1.57	0.82
27:o:20:ALA:HB3	27:o:28:ASP:HB3	1.58	0.82
33:v:153:ARG:HH21	33:v:160:LYS:HD3	1.44	0.82
3:W:377:ARG:HG3	3:W:380:GLN:HE21	1.44	0.82
11:f:348:ILE:HG21	11:f:751:TYR:HD1	1.06	0.82
11:f:810:ILE:HA	11:f:856:ALA:HB2	1.61	0.82
12:A:206:ILE:HG22	17:F:373:MET:HE2	1.61	0.82
27:o:6:VAL:HG23	27:o:124:TYR:HB3	1.59	0.82
2:V:54:LYS:HE2	2:V:57:ALA:HA	1.60	0.82
11:f:395:GLY:O	11:f:399:LEU:CB	2.26	0.82
21:I:180:LYS:HD2	21:I:183:GLU:HB2	1.60	0.82
25:M:198:TYR:HE2	25:M:211:LEU:CD2	1.92	0.82
11:f:717:ALA:HA	11:f:760:PHE:CZ	2.13	0.82
23:K:50:VAL:HG11	23:K:66:LYS:HB2	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:l:92:CYS:HA	24:l:103:LEU:HD12	1.60	0.82
5:Y:23:ARG:HH12	5:Y:53:TYR:HA	1.42	0.82
11:f:319:GLU:HA	11:f:323:ASN:HB3	1.58	0.82
11:f:476:THR:HA	11:f:479:LEU:HB3	1.62	0.82
14:C:342:ILE:HD11	14:C:347:ILE:HD11	1.61	0.82
22:J:158:ALA:HB3	23:K:58:LEU:HD13	1.59	0.82
5:Y:45:VAL:HG12	5:Y:70:LEU:HD11	1.62	0.82
11:f:567:LEU:HD23	11:f:775:THR:HG21	1.62	0.82
27:O:5:GLY:HA3	27:O:14:LEU:HD23	1.61	0.82
32:t:92:LEU:HD11	32:t:110:MET:HE1	1.59	0.82
13:B:54:PRO:HG2	13:B:61:LYS:HG3	1.60	0.82
17:F:94:ILE:HD11	17:F:125:LYS:HB2	1.62	0.82
17:F:295:ARG:HH22	17:F:311:LEU:HD21	1.44	0.82
5:Y:240:VAL:HG23	5:Y:241:ILE:HG13	1.61	0.82
5:Y:262:SER:HA	5:Y:267:ARG:HG3	1.60	0.82
29:Q:85:ARG:HB2	29:Q:118:MET:HE1	1.60	0.82
2:V:227:VAL:O	2:V:231:LEU:HB2	1.80	0.82
11:f:330:PHE:HA	11:f:333:LEU:HB2	0.82	0.82
19:g:144:ASP:HB3	19:g:147:GLN:HB2	1.61	0.82
5:Y:50:MET:HB2	5:Y:114:ILE:HG23	1.62	0.82
9:c:50:PRO:HG3	16:E:84:ARG:HG2	1.61	0.82
9:c:192:LEU:HB2	9:c:196:LEU:HD22	1.61	0.82
11:f:339:ILE:CG2	33:v:210:ILE:HG21	2.10	0.82
5:Y:84:LEU:HD22	5:Y:88:LEU:HA	1.62	0.81
11:f:461:PRO:HB3	11:f:494:ARG:HH12	1.44	0.81
21:I:73:ALA:HB3	21:I:137:ILE:HD11	1.60	0.81
22:J:175:ASN:HD21	22:J:190:LEU:HD11	1.44	0.81
26:N:40:ARG:HD3	26:N:103:TRP:CE3	2.12	0.81
3:W:408:ARG:HD2	4:X:345:VAL:HG23	1.61	0.81
7:a:122:LYS:HE3	7:a:130:VAL:HG12	1.62	0.81
8:b:171:VAL:HG11	8:b:183:LEU:CD2	2.10	0.81
11:f:348:ILE:HB	11:f:751:TYR:CE1	2.14	0.81
11:f:761:MET:H	11:f:806:VAL:HG13	1.43	0.81
28:p:58:THR:OG1	29:q:121:LEU:O	1.97	0.81
6:Z:23:PHE:HA	6:Z:35:VAL:HG21	1.61	0.81
6:Z:118:ASN:HB2	6:Z:139:ILE:HD11	1.60	0.81
6:Z:190:ARG:HG2	9:c:297:VAL:HG21	1.63	0.81
7:a:97:LEU:HD11	7:a:117:ALA:HB1	1.61	0.81
11:f:348:ILE:HG22	11:f:751:TYR:CD1	1.92	0.81
11:f:348:ILE:CD1	11:f:377:VAL:HG13	2.10	0.81
13:B:223:ILE:HD12	13:B:350:LYS:HE3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B:383:LEU:HD13	13:B:423:LYS:HB2	1.62	0.81
21:I:10:THR:HG22	22:J:125:ARG:HB2	1.60	0.81
1:U:611:ASN:HB3	1:U:614:VAL:HG12	1.63	0.81
14:C:158:ILE:HG22	14:C:162:LYS:HE3	1.63	0.81
19:G:144:ASP:HB3	19:G:147:GLN:HB2	1.61	0.81
22:j:175:ASN:HD21	22:j:190:LEU:HD11	1.44	0.81
32:t:22:ILE:HD12	32:t:50:MET:HE3	1.59	0.81
1:U:681:ASN:ND2	9:c:182:GLY:HA2	1.92	0.81
2:V:235:LEU:HD11	2:V:247:GLN:HG3	1.62	0.81
15:D:199:PRO:HB3	15:D:328:ASP:HB2	1.61	0.81
23:K:42:THR:HG22	23:K:44:GLU:H	1.45	0.81
24:L:50:LYS:HB2	24:L:209:ASN:HA	1.63	0.81
33:v:211:GLN:NE2	33:v:211:GLN:H	1.78	0.81
10:d:32:GLU:OE1	10:d:47:GLN:NE2	2.13	0.81
15:D:125:LYS:CD	15:D:126:PRO:CD	2.34	0.81
20:h:167:TYR:O	20:h:171:LYS:HB2	1.81	0.81
12:A:160:THR:HG21	12:A:256:MET:HE1	1.61	0.81
14:C:90:HIS:HB3	14:C:91:PRO:HD3	1.60	0.81
17:F:230:GLY:O	17:F:392:ASN:HB2	1.81	0.81
25:M:37:ILE:CD1	25:M:197:ILE:HD11	2.11	0.81
26:N:6:VAL:HG22	26:N:125:PHE:HB2	1.62	0.81
24:l:186:GLU:HA	24:l:189:LYS:HE3	1.63	0.81
3:W:454:ASN:HD21	6:Z:221:PRO:CG	1.87	0.81
13:B:113:GLU:HB3	13:B:122:ILE:HG23	1.63	0.81
14:C:17:GLY:HA2	14:C:21:ARG:HB2	1.60	0.81
15:D:92:PHE:CE2	15:D:124:LEU:HD11	2.16	0.81
33:v:166:PHE:HD2	33:v:179:ARG:CG	1.79	0.81
6:Z:5:ALA:HB3	6:Z:46:LYS:HE3	1.61	0.81
7:a:89:ASP:HB3	7:a:92:VAL:HG22	1.63	0.81
9:c:277:LYS:HA	15:D:122:GLU:HG3	1.63	0.81
11:f:184:LEU:HG	13:B:58:CYS:HA	1.63	0.81
15:D:303:VAL:HG12	15:D:305:VAL:HG23	1.61	0.81
17:F:196:GLN:NE2	33:v:164:THR:CB	2.45	0.81
26:N:40:ARG:CD	26:N:103:TRP:CE3	2.64	0.81
22:j:180:ALA:HB1	22:j:190:LEU:HD22	1.63	0.81
1:U:402:PHE:HB2	1:U:437:TYR:HB3	1.62	0.80
2:V:98:LEU:HA	2:V:104:THR:HG22	1.64	0.80
11:f:764:LEU:CD1	11:f:773:LYS:O	2.29	0.80
23:K:51:GLU:HA	23:K:215:ILE:HG22	1.63	0.80
22:j:172:LEU:HA	22:j:175:ASN:HB3	1.63	0.80
7:a:77:VAL:HA	7:a:80:ILE:HG22	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d:45:LYS:HD3	10:d:88:GLN:HG2	1.61	0.80
12:A:365:GLU:HB3	12:A:406:GLU:HG2	1.63	0.80
33:v:166:PHE:HD2	33:v:179:ARG:CB	1.94	0.80
1:U:477:GLY:O	1:U:481:LEU:HB2	1.79	0.80
3:W:15:LYS:HA	3:W:18:VAL:HB	1.64	0.80
11:f:408:LEU:HD21	11:f:797:LEU:HD13	1.62	0.80
12:A:142:VAL:HG22	12:A:149:ILE:HA	1.63	0.80
14:C:86:LEU:HD11	14:C:94:LYS:HD2	1.61	0.80
24:L:186:GLU:HA	24:L:189:LYS:HE3	1.63	0.80
20:h:9:SER:HA	20:h:125:GLY:HA2	1.61	0.80
9:c:175:ARG:HG3	9:c:181:LEU:CD2	2.11	0.80
14:C:286:THR:O	14:C:289:ILE:N	2.11	0.80
20:H:167:TYR:O	20:H:171:LYS:HB2	1.81	0.80
23:k:42:THR:HG22	23:k:44:GLU:H	1.45	0.80
1:U:27:LEU:HB3	1:U:63:VAL:HG11	1.63	0.80
1:U:479:LEU:HG	1:U:514:LEU:HD12	1.62	0.80
11:f:240:VAL:HG13	11:f:257:ARG:HE	1.44	0.80
28:P:112:LEU:HD23	28:P:119:PRO:HA	1.63	0.80
9:c:266:THR:HG22	9:c:267:PRO:HD2	1.61	0.80
11:f:61:GLU:HB2	11:f:97:LYS:HG2	1.63	0.80
11:f:209:MET:HB3	11:f:212:GLU:HB3	1.61	0.80
11:f:415:GLY:HA3	11:f:447:ALA:HB1	1.62	0.80
1:U:243:LEU:HG	1:U:913:ILE:HD13	1.64	0.80
3:W:94:ARG:HB2	3:W:98:LYS:HG3	1.64	0.80
5:Y:267:ARG:HB3	5:Y:270:VAL:HG12	1.63	0.80
9:c:100:LYS:HG2	9:c:105:PRO:HA	1.63	0.80
11:f:330:PHE:HA	11:f:333:LEU:CG	2.10	0.80
14:C:212:ILE:HB	14:C:246:ILE:HG12	1.63	0.80
22:J:74:ALA:HB2	22:J:161:ILE:HD13	1.62	0.80
22:J:180:ALA:HB1	22:J:190:LEU:HD22	1.63	0.80
27:o:219:LEU:HG	28:p:194:LYS:HA	1.64	0.80
9:c:45:GLY:HA2	9:c:53:VAL:HG21	1.64	0.80
11:f:692:LEU:HD13	12:A:77:LEU:HB2	1.62	0.80
25:m:76:ALA:HB3	25:m:136:MET:HB2	1.64	0.80
25:m:214:SER:HG	25:m:224:HIS:HE2	1.27	0.80
10:d:45:LYS:CD	10:d:88:GLN:HG2	2.12	0.80
25:M:191:LYS:CD	25:M:234:GLU:HB2	2.12	0.80
3:W:12:ARG:HD2	3:W:27:ARG:HD3	1.63	0.80
11:f:654:VAL:HG22	13:B:75:GLU:HB2	1.64	0.80
13:B:221:GLY:HA3	13:B:347:ILE:HA	1.62	0.80
15:D:274:ARG:HB2	16:E:245:GLU:HB3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:M:237:LYS:HA	25:M:237:LYS:HE3	1.63	0.80
12:A:52:ILE:HG13	13:B:72:LEU:HD22	1.62	0.79
11:f:294:MET:HB2	11:f:320:ILE:HG22	1.65	0.79
11:f:384:ALA:HB2	11:f:419:LEU:HD23	1.63	0.79
11:f:754:LYS:CA	33:v:213:ILE:CD1	2.60	0.79
23:k:51:GLU:HA	23:k:215:ILE:HG22	1.63	0.79
8:b:84:ILE:HB	8:b:115:SER:HB2	1.63	0.79
11:f:556:ARG:HH22	11:f:790:GLN:HG2	1.48	0.79
32:T:99:ARG:HG3	32:T:105:PRO:HA	1.65	0.79
10:d:48:LEU:HA	10:d:51:ALA:HB3	1.64	0.79
11:f:704:LEU:HA	11:f:707:LEU:HB2	1.64	0.79
13:B:322:ARG:HB3	13:B:325:VAL:HG21	1.62	0.79
15:D:338:ARG:HH12	15:D:365:ALA:HA	1.44	0.79
24:l:50:LYS:HB2	24:l:209:ASN:HA	1.63	0.79
28:p:112:LEU:HD23	28:p:119:PRO:HA	1.63	0.79
4:X:57:LEU:HD13	4:X:66:LEU:HA	1.64	0.79
5:Y:17:LEU:HD21	5:Y:212:GLU:HB2	1.64	0.79
6:Z:150:PRO:HB3	7:a:146:PRO:HB2	1.64	0.79
8:b:22:LEU:HB3	8:b:23:PRO:HD3	1.64	0.79
11:f:673:ARG:HH22	11:f:709:THR:HA	1.47	0.79
19:G:125:TYR:HA	19:G:131:MET:HE2	1.63	0.79
23:K:31:ILE:HD13	23:K:140:ALA:HB2	1.63	0.79
25:M:240:LYS:O	25:M:240:LYS:HD3	1.82	0.79
19:g:125:TYR:HA	19:g:131:MET:HE2	1.63	0.79
3:W:265:GLN:HA	3:W:333:LEU:HD22	1.63	0.79
5:Y:237:ARG:O	5:Y:241:ILE:HB	1.82	0.79
10:d:52:ARG:CG	10:d:81:TYR:HD2	1.95	0.79
12:A:234:ASP:OD1	33:v:207:ALA:HA	1.82	0.79
26:n:6:VAL:HG22	26:n:125:PHE:HB2	1.62	0.79
1:U:580:ARG:HG3	1:U:614:VAL:HA	0.81	0.79
6:Z:48:LEU:HD21	6:Z:92:VAL:HG21	1.65	0.79
13:B:105:THR:C	13:B:107:MET:H	1.90	0.79
22:J:172:LEU:HA	22:J:175:ASN:HB3	1.63	0.79
25:M:214:SER:HG	25:M:224:HIS:HE2	1.27	0.79
23:k:31:ILE:HD13	23:k:140:ALA:HB2	1.63	0.79
1:U:580:ARG:HG2	1:U:617:ALA:CB	2.12	0.79
5:Y:179:ARG:NH1	5:Y:210:SER:N	2.27	0.79
11:f:102:HIS:O	11:f:106:LEU:HB2	1.82	0.79
11:f:272:LEU:HD23	11:f:275:MET:HG3	1.65	0.79
11:f:330:PHE:C	11:f:333:LEU:HB2	2.07	0.79
11:f:799:VAL:HG13	11:f:800:LEU:HD12	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:869:THR:O	11:f:871:PRO:CD	2.28	0.79
25:M:191:LYS:HD2	25:M:234:GLU:HB3	1.62	0.79
13:B:361:LYS:HZ3	13:B:390:LEU:HG	1.46	0.79
22:j:74:ALA:HB2	22:j:161:ILE:HD13	1.62	0.79
33:v:153:ARG:HG3	33:v:160:LYS:HA	1.64	0.79
1:U:187:LEU:HB2	15:D:45:LYS:HE2	1.63	0.79
2:V:91:PRO:HG3	2:V:124:ASN:HB2	1.64	0.79
2:V:419:LEU:HA	2:V:422:ILE:HG22	1.65	0.79
5:Y:247:LEU:HD12	5:Y:250:LEU:HD11	1.63	0.79
11:f:754:LYS:HB2	33:v:213:ILE:HD12	1.65	0.79
13:B:106:PRO:CB	13:B:154:HIS:CE1	2.66	0.79
16:E:265:ASP:HB3	16:E:294:ARG:HH21	1.48	0.79
23:K:46:VAL:HG23	23:K:151:PRO:HB2	1.65	0.79
21:i:90:LEU:HD12	21:i:114:LEU:HD22	1.65	0.79
1:U:725:MET:HE3	9:c:182:GLY:N	1.98	0.78
5:Y:179:ARG:HG3	5:Y:182:VAL:CG2	2.12	0.78
11:f:345:PRO:HD2	11:f:381:VAL:HG21	1.63	0.78
11:f:809:ILE:HD11	11:f:855:GLN:HE22	1.48	0.78
15:D:125:LYS:CG	15:D:126:PRO:HD2	2.13	0.78
17:F:364:ARG:HD3	33:v:180:TYR:CG	2.18	0.78
17:F:364:ARG:NH2	33:v:180:TYR:HD1	1.81	0.78
2:V:303:SER:HA	2:V:306:ARG:HG2	1.65	0.78
3:W:187:LEU:HD21	3:W:222:LEU:HD11	1.63	0.78
9:c:149:GLN:HB2	9:c:156:VAL:HG21	1.66	0.78
11:f:339:ILE:HG21	33:v:210:ILE:HG21	1.65	0.78
11:f:613:LEU:HD12	13:B:74:MET:HE2	1.63	0.78
16:E:83:CYS:HB2	16:E:89:LYS:HE2	1.64	0.78
24:l:148:CYS:HG	24:l:150:SER:HG	1.29	0.78
9:c:167:MET:HE3	9:c:170:LEU:HD23	1.64	0.78
13:B:378:VAL:HG12	13:B:416:ASN:HA	1.63	0.78
16:E:126:ASP:HA	17:F:321:GLN:HE21	1.46	0.78
17:F:191:LEU:O	17:F:195:ILE:HG13	1.83	0.78
24:l:146:GLN:HE22	24:l:159:MET:HE2	1.49	0.78
1:U:247:GLN:HG3	1:U:904:LYS:HD2	1.65	0.78
2:V:218:TYR:HA	2:V:221:LEU:HG	1.64	0.78
11:f:125:ILE:HD11	11:f:129:LEU:H	1.49	0.78
11:f:181:ARG:HD2	11:f:184:LEU:HD22	1.64	0.78
11:f:429:ILE:HD12	11:f:444:ALA:HB1	1.66	0.78
13:B:51:LEU:HD11	13:B:53:THR:HG22	1.65	0.78
17:F:193:LYS:HZ2	25:M:204:VAL:CG2	1.93	0.78
25:M:141:SER:HB3	25:M:144:ASP:HB2	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:k:46:VAL:HG23	23:k:151:PRO:HB2	1.65	0.78
24:l:109:VAL:HG21	24:l:145:PHE:HD2	1.49	0.78
2:V:92:ARG:HE	2:V:114:TYR:HB2	1.47	0.78
4:X:228:ALA:HA	4:X:231:TYR:HD2	1.48	0.78
12:A:312:ARG:HH12	12:A:317:VAL:HG23	1.49	0.78
14:C:79:ALA:HB2	14:C:85:VAL:HG12	1.65	0.78
17:F:314:LEU:HD21	17:F:342:LEU:HD23	1.66	0.78
25:M:55:SER:H	25:M:57:LEU:HD23	1.49	0.78
10:d:82:TYR:HE1	10:d:91:GLU:HG3	1.48	0.78
25:M:76:ALA:HB3	25:M:136:MET:HB2	1.64	0.78
2:V:90:GLU:HG2	2:V:131:LEU:HD21	1.65	0.78
2:V:419:LEU:HB3	2:V:458:VAL:HG23	1.65	0.78
3:W:313:GLU:HG3	3:W:314:LEU:HD22	1.66	0.78
9:c:189:ILE:HD12	9:c:192:LEU:HD11	1.66	0.78
11:f:269:ALA:HA	11:f:272:LEU:HB2	1.64	0.78
11:f:527:VAL:HG21	11:f:561:GLY:HA2	1.66	0.78
15:D:191:TYR:O	15:D:195:GLY:HA2	1.84	0.78
16:E:264:MET:HE3	16:E:294:ARG:HB3	1.64	0.78
6:Z:170:VAL:HA	9:c:152:LYS:HA	1.65	0.78
25:M:191:LYS:CD	25:M:234:GLU:CB	2.62	0.78
25:m:76:ALA:O	25:m:135:PHE:HA	1.83	0.78
32:t:192:VAL:HG12	32:t:197:VAL:HG22	1.66	0.78
1:U:51:ASP:HB3	1:U:54:PHE:HB2	1.65	0.78
11:f:719:PRO:HG3	33:v:213:ILE:OXT	1.84	0.78
14:C:258:ARG:HG3	14:C:259:LEU:H	1.49	0.78
25:M:229:LYS:NZ	25:M:236:GLU:OE2	2.17	0.78
21:i:3:ARG:HH12	23:k:11:GLY:HA2	1.48	0.78
1:U:16:GLU:OE1	10:d:27:LYS:NZ	2.15	0.78
1:U:600:ARG:HD3	15:D:56:VAL:HG23	1.65	0.78
10:d:47:GLN:O	10:d:51:ALA:HB2	1.82	0.78
11:f:298:LEU:CG	11:f:301:HIS:NE2	2.47	0.78
14:C:79:ALA:HA	14:C:85:VAL:HA	1.65	0.78
1:U:353:LEU:HD11	1:U:373:ASN:HB3	1.64	0.77
8:b:144:GLY:C	8:b:173:VAL:HG21	2.08	0.77
11:f:827:PRO:HG2	11:f:848:GLN:HB3	1.64	0.77
16:E:139:SER:HA	16:E:142:ILE:HD12	1.66	0.77
25:M:76:ALA:O	25:M:135:PHE:HA	1.83	0.77
23:k:44:GLU:OE1	23:k:191:LEU:N	2.17	0.77
25:m:55:SER:H	25:m:57:LEU:HD23	1.49	0.77
3:W:169:LEU:O	3:W:182:ARG:NH1	2.17	0.77
10:d:193:GLU:HA	10:d:197:ILE:HD13	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:718:ASP:CB	11:f:719:PRO:HD3	2.09	0.77
1:U:714:SER:HA	1:U:717:ILE:HG22	1.63	0.77
6:Z:40:LEU:HD23	6:Z:91:ILE:HA	1.65	0.77
7:a:34:TRP:HZ3	7:a:64:ILE:HG23	1.49	0.77
8:b:174:PRO:CG	8:b:175:PRO:HD3	2.14	0.77
11:f:223:GLU:HG2	13:B:60:LEU:HG	1.67	0.77
11:f:718:ASP:HB2	11:f:719:PRO:CD	2.09	0.77
24:L:109:VAL:HG21	24:L:145:PHE:HD2	1.49	0.77
33:v:153:ARG:CD	33:v:158:ARG:O	2.27	0.77
8:b:26:LEU:HD11	8:b:80:PRO:HG3	1.67	0.77
9:c:265:MET:HE2	9:c:269:GLN:HB3	1.65	0.77
11:f:298:LEU:CD1	11:f:301:HIS:CE1	2.63	0.77
14:C:71:SER:OG	15:D:112:TYR:O	2.02	0.77
33:v:166:PHE:HD2	33:v:179:ARG:HB2	1.49	0.77
1:U:580:ARG:HH22	1:U:770:TRP:HZ3	1.32	0.77
1:U:694:ILE:HG23	1:U:695:MET:HG3	1.66	0.77
8:b:48:ASN:HA	8:b:66:PRO:HA	1.66	0.77
9:c:233:ASP:O	9:c:237:HIS:CB	2.32	0.77
13:B:188:GLY:HA3	37:B:501:ADP:HN62	1.49	0.77
16:E:265:ASP:HB3	16:E:294:ARG:NH2	2.00	0.77
4:X:122:ARG:HD2	4:X:125:LEU:HB2	1.67	0.77
5:Y:164:ALA:HA	5:Y:168:ILE:HB	1.66	0.77
12:A:48:VAL:O	13:B:69:LYS:NZ	2.16	0.77
23:K:44:GLU:OE1	23:K:191:LEU:N	2.17	0.77
3:W:55:ARG:HH12	3:W:79:GLU:HG3	1.50	0.77
11:f:330:PHE:CA	11:f:333:LEU:CB	2.31	0.77
11:f:757:ASN:CB	33:v:213:ILE:O	2.23	0.77
12:A:101:ILE:HD12	12:A:138:MET:HB3	1.65	0.77
14:C:162:LYS:O	14:C:166:GLU:HB2	1.83	0.77
32:t:99:ARG:HG3	32:t:105:PRO:HA	1.65	0.77
14:C:169:VAL:HA	14:C:288:ASN:HA	1.67	0.77
20:h:34:PRO:HA	20:h:164:GLY:HA3	1.67	0.77
2:V:85:ALA:O	2:V:89:LYS:NZ	2.17	0.77
4:X:86:ALA:HB2	4:X:122:ARG:HH12	1.48	0.77
16:E:264:MET:HE3	16:E:294:ARG:CB	2.14	0.77
17:F:386:ARG:HB3	24:L:166:GLN:HE22	1.50	0.77
20:h:222:THR:OG1	20:h:225:GLU:OE1	2.03	0.77
25:m:141:SER:HB3	25:m:144:ASP:HB2	1.64	0.77
1:U:49:TYR:HE1	1:U:58:GLN:HA	1.49	0.77
1:U:770:TRP:CD1	9:c:183:HIS:NE2	2.51	0.77
11:f:764:LEU:HD11	11:f:775:THR:HG23	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:C:187:LEU:HA	14:C:293:MET:O	1.85	0.77
15:D:373:ALA:HA	35:D:501:ATP:H1'	1.67	0.77
2:V:231:LEU:HD11	2:V:250:LEU:HB3	1.65	0.76
5:Y:218:THR:O	5:Y:221:THR:OG1	2.03	0.76
11:f:218:GLU:HA	11:f:221:ILE:HG22	1.67	0.76
11:f:807:ARG:HB2	11:f:807:ARG:CZ	2.14	0.76
15:D:167:ILE:HB	15:D:174:LYS:HZ2	1.47	0.76
17:F:256:LEU:HD23	17:F:267:LEU:HD23	1.65	0.76
1:U:780:SER:HA	1:U:783:TYR:HD2	1.51	0.76
5:Y:316:LEU:HD13	5:Y:327:VAL:HG13	1.67	0.76
7:a:100:THR:HA	7:a:103:LYS:HE2	1.67	0.76
7:a:315:LEU:HD23	7:a:320:VAL:HG13	1.66	0.76
11:f:60:VAL:O	11:f:64:GLY:HA3	1.85	0.76
21:I:90:LEU:HD12	21:I:114:LEU:HD22	1.65	0.76
21:i:72:MET:HG2	21:i:138:GLY:HA3	1.65	0.76
25:m:235:ALA:O	25:m:239:ALA:CB	2.33	0.76
1:U:35:TRP:HE3	1:U:70:HIS:HB2	1.50	0.76
17:F:193:LYS:NZ	25:M:204:VAL:O	2.18	0.76
3:W:41:GLN:HA	3:W:92:LYS:HE3	1.64	0.76
3:W:131:VAL:HG22	3:W:144:ARG:HG3	1.67	0.76
7:a:268:LEU:HD23	7:a:271:LYS:HD3	1.65	0.76
11:f:179:VAL:HG12	11:f:216:MET:HB2	1.65	0.76
12:A:239:ARG:HD3	12:A:241:ILE:HG13	1.65	0.76
22:J:18:GLN:HA	22:J:21:TYR:HB3	1.65	0.76
20:h:148:GLN:O	20:h:155:TYR:HA	1.86	0.76
25:m:229:LYS:NZ	25:m:236:GLU:OE2	2.17	0.76
2:V:37:MET:HE1	2:V:92:ARG:HD2	1.66	0.76
2:V:470:ARG:HH12	10:d:242:LEU:HD21	1.50	0.76
21:I:72:MET:HG2	21:I:138:GLY:HA3	1.65	0.76
21:i:13:SER:N	21:i:17:ARG:O	2.16	0.76
2:V:464:ILE:HG22	2:V:465:ASP:H	1.51	0.76
3:W:308:LEU:HD11	3:W:361:HIS:CE1	2.21	0.76
11:f:224:ASN:OD1	11:f:235:SER:OG	2.02	0.76
15:D:125:LYS:HE2	15:D:125:LYS:CA	2.11	0.76
15:D:125:LYS:HA	15:D:125:LYS:CE	2.10	0.76
1:U:580:ARG:HG3	1:U:614:VAL:N	2.01	0.76
5:Y:298:GLU:HA	5:Y:301:ILE:HG22	1.67	0.76
11:f:12:GLN:HB3	11:f:13:PRO:HD3	1.68	0.76
11:f:839:PRO:CG	12:A:361:SER:HA	2.14	0.76
17:F:293:THR:HA	17:F:337:ILE:HG22	1.68	0.76
20:h:93:LEU:HD21	20:h:113:ARG:HD2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:341:PHE:HZ	1:U:883:ARG:HB3	1.49	0.76
1:U:580:ARG:CG	1:U:614:VAL:CA	2.43	0.76
7:a:274:LEU:HA	7:a:310:LEU:HD21	1.66	0.76
8:b:5:SER:HB3	8:b:64:LEU:HD21	1.67	0.76
9:c:75:MET:SD	9:c:75:MET:N	2.58	0.76
11:f:294:MET:HG2	11:f:321:MET:HA	1.67	0.76
11:f:702:PRO:HB2	11:f:787:LEU:CG	2.16	0.76
21:I:134:LEU:H	21:I:150:SER:HG	1.33	0.76
28:P:138:VAL:HG11	28:P:146:MET:HB3	1.68	0.76
21:i:232:GLU:HA	21:i:235:GLN:HG2	1.68	0.76
22:j:18:GLN:HA	22:j:21:TYR:HB3	1.65	0.76
2:V:81:GLN:HB3	2:V:85:ALA:HB3	1.68	0.76
11:f:575:ALA:O	11:f:579:ALA:CB	2.34	0.76
11:f:861:THR:HG22	11:f:876:HIS:HE1	1.48	0.76
15:D:353:ASN:HD22	15:D:353:ASN:H	1.34	0.76
29:Q:4:LEU:HD22	29:Q:45:LEU:HD13	1.67	0.76
1:U:609:ASP:HB3	1:U:615:ARG:HG2	1.68	0.76
7:a:70:ARG:HG3	8:b:17:ARG:HB3	1.67	0.76
11:f:187:LEU:HD11	11:f:231:LEU:HD23	1.67	0.76
11:f:305:LEU:HD23	11:f:317:LEU:HD13	1.67	0.76
27:O:41:ILE:HG12	27:O:102:GLY:HA3	1.68	0.76
31:S:193:LEU:O	31:S:207:THR:HA	1.86	0.76
31:s:193:LEU:O	31:s:207:THR:HA	1.86	0.76
11:f:816:TYR:O	11:f:819:TYR:N	2.16	0.75
13:B:49:LEU:HD13	13:B:51:LEU:H	1.50	0.75
20:H:14:SER:OG	20:H:18:LYS:N	2.20	0.75
20:H:34:PRO:HA	20:H:164:GLY:HA3	1.66	0.75
23:K:238:ILE:HA	23:K:241:ILE:HG22	1.68	0.75
24:L:146:GLN:HE22	24:L:159:MET:HE2	1.49	0.75
32:T:192:VAL:HG12	32:T:197:VAL:HG22	1.66	0.75
21:i:38:LEU:HB3	21:i:43:VAL:HG23	1.69	0.75
29:q:4:LEU:HD22	29:q:45:LEU:HD13	1.67	0.75
1:U:31:VAL:HG22	1:U:66:LYS:HG3	1.68	0.75
1:U:770:TRP:CE2	9:c:183:HIS:NE2	2.52	0.75
3:W:122:LEU:HA	3:W:125:ILE:HG22	1.68	0.75
6:Z:82:PHE:HA	6:Z:85:VAL:HG12	1.68	0.75
12:A:276:GLU:HG2	13:B:310:LEU:HD11	1.69	0.75
27:O:167:LEU:HD12	31:s:33:PHE:HA	1.69	0.75
28:p:138:VAL:HG11	28:p:146:MET:HB3	1.68	0.75
1:U:7:GLY:O	10:d:79:LYS:HB3	1.85	0.75
2:V:92:ARG:HG2	2:V:96:ARG:HH22	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:213:GLN:NE2	11:f:246:SER:OG	2.19	0.75
11:f:292:LYS:HA	11:f:296:PHE:HB2	1.69	0.75
2:V:306:ARG:HD2	2:V:336:GLU:HG2	1.69	0.75
5:Y:95:LEU:HD23	13:B:410:ARG:HB3	1.69	0.75
11:f:348:ILE:HD12	11:f:348:ILE:H	1.51	0.75
12:A:354:ILE:HD11	35:A:501:ATP:N6	2.01	0.75
12:A:369:ARG:HH22	12:A:410:LEU:HD21	1.50	0.75
15:D:85:ILE:CG2	16:E:80:VAL:HG12	2.16	0.75
20:H:93:LEU:HD21	20:H:113:ARG:HD2	1.68	0.75
23:K:54:ILE:HA	23:K:59:MET:HE1	1.68	0.75
3:W:144:ARG:NH1	15:D:392:TYR:OH	2.20	0.75
3:W:315:MET:HE1	3:W:361:HIS:HB2	1.68	0.75
11:f:816:TYR:HB3	11:f:821:LEU:HD13	1.66	0.75
20:H:148:GLN:O	20:H:155:TYR:HA	1.85	0.75
1:U:590:TYR:HB3	1:U:593:SER:HB3	1.68	0.75
5:Y:173:ASP:HA	14:C:334:ARG:HG2	1.68	0.75
7:a:64:ILE:O	7:a:68:GLU:CB	2.32	0.75
11:f:300:ARG:NH1	11:f:301:HIS:CE1	2.51	0.75
11:f:585:GLU:HB2	11:f:586:PRO:HD2	1.68	0.75
14:C:70:GLY:HA2	14:C:118:ASN:CG	2.12	0.75
26:N:18:SER:HB2	26:N:31:THR:H	1.50	0.75
2:V:247:GLN:HE21	2:V:274:SER:HB3	1.52	0.75
3:W:314:LEU:HD13	3:W:314:LEU:N	2.01	0.75
11:f:565:ASN:HA	11:f:776:LEU:HD11	1.67	0.75
11:f:813:LYS:HD3	11:f:815:HIS:HE1	1.51	0.75
15:D:85:ILE:HD13	15:D:85:ILE:N	2.00	0.75
16:E:235:ILE:O	16:E:239:GLY:N	2.18	0.75
17:F:399:VAL:HG22	17:F:427:VAL:HG21	1.67	0.75
28:p:17:LYS:HD3	28:p:157:ASN:HB3	1.68	0.75
15:D:205:TYR:O	15:D:332:GLU:HA	1.85	0.75
20:h:139:TRP:HA	20:h:144:PRO:HA	1.68	0.75
1:U:177:LEU:O	1:U:205:TYR:OH	2.03	0.75
1:U:770:TRP:O	9:c:177:THR:OG1	2.05	0.75
3:W:275:ILE:HD11	3:W:305:LEU:HD21	1.67	0.75
11:f:830:LEU:HD12	11:f:859:PRO:HA	1.67	0.75
12:A:413:VAL:HA	12:A:416:VAL:HG22	1.68	0.75
1:U:127:ASP:HB3	1:U:130:LEU:HB2	1.68	0.74
6:Z:26:ILE:HB	6:Z:33:LYS:HD3	1.69	0.74
11:f:702:PRO:O	11:f:787:LEU:HD11	1.87	0.74
12:A:346:PRO:O	12:A:351:ARG:NH1	2.20	0.74
14:C:280:LEU:HB3	14:C:310:ARG:HD3	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:S:45:LYS:HA	31:S:51:VAL:HG22	1.69	0.74
24:l:121:GLN:HA	25:m:129:ARG:NH1	2.02	0.74
26:n:18:SER:HB2	26:n:31:THR:H	1.50	0.74
27:o:212:LEU:HD11	28:p:201:LYS:HA	1.68	0.74
32:t:56:ASP:OD2	32:t:59:ASP:N	2.17	0.74
11:f:139:CYS:O	11:f:143:ARG:NH1	2.20	0.74
11:f:192:VAL:HB	11:f:193:PRO:HD3	1.68	0.74
11:f:329:ASN:ND2	11:f:420:TRP:O	2.20	0.74
11:f:369:ARG:HA	11:f:372:LEU:HD13	1.69	0.74
11:f:759:LEU:HA	11:f:808:ASN:O	1.87	0.74
11:f:778:LEU:HA	11:f:803:PHE:HB3	1.69	0.74
23:K:219:THR:HB	23:K:221:GLN:HE22	1.52	0.74
24:l:42:THR:O	24:l:137:TYR:OH	2.05	0.74
24:l:155:ASP:HB3	25:m:62:SER:HB2	1.66	0.74
1:U:217:CYS:HB2	1:U:248:ILE:HD12	1.67	0.74
11:f:176:ALA:HB2	11:f:838:ARG:NH1	2.03	0.74
14:C:115:ALA:HB3	14:C:125:LYS:H	1.52	0.74
29:Q:19:ARG:HH21	29:Q:31:ASP:HB2	1.52	0.74
1:U:88:PHE:HE2	1:U:133:ILE:HD13	1.50	0.74
11:f:17:PRO:HB3	11:f:89:MET:HE1	1.69	0.74
12:A:323:ARG:HH21	12:A:326:THR:HG21	1.53	0.74
21:i:134:LEU:H	21:i:150:SER:HG	1.33	0.74
23:k:54:ILE:HA	23:k:59:MET:HE1	1.68	0.74
1:U:177:LEU:HD23	1:U:205:TYR:HE1	1.53	0.74
5:Y:224:VAL:HG21	5:Y:256:VAL:HG13	1.67	0.74
5:Y:237:ARG:HB2	5:Y:241:ILE:HD12	1.70	0.74
8:b:24:THR:HG22	8:b:26:LEU:H	1.53	0.74
16:E:138:LEU:HD12	16:E:142:ILE:HG13	1.69	0.74
20:H:222:THR:OG1	20:H:225:GLU:OE1	2.03	0.74
21:I:232:GLU:HA	21:I:235:GLN:HG2	1.68	0.74
4:X:417:LYS:NZ	6:Z:277:ASN:OD1	2.21	0.74
9:c:116:PRO:HA	9:c:148:ILE:HD13	1.70	0.74
11:f:460:ASP:HB2	11:f:464:ALA:H	1.52	0.74
16:E:226:GLN:HB3	16:E:227:PRO:HD3	1.70	0.74
21:i:11:ILE:HG23	22:j:18:GLN:HE22	1.52	0.74
11:f:414:LEU:HD23	11:f:417:ILE:HD12	1.67	0.74
11:f:616:CYS:HB2	11:f:629:LYS:HG2	1.70	0.74
14:C:165:ILE:HG12	14:C:290:LYS:HG2	1.69	0.74
19:g:132:ARG:HD3	25:m:124:LEU:HD23	1.69	0.74
27:o:41:ILE:HG12	27:o:102:GLY:HA3	1.68	0.74
28:p:190:ILE:HG22	28:p:195:ILE:HG23	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:575:ASP:HB3	1:U:578:LEU:HB3	1.69	0.74
5:Y:179:ARG:NH2	5:Y:209:THR:CG2	2.50	0.74
11:f:68:THR:HG23	11:f:90:THR:HB	1.68	0.74
11:f:78:LEU:HA	11:f:82:ILE:HD11	1.68	0.74
11:f:585:GLU:O	11:f:589:SER:OG	2.03	0.74
12:A:294:GLU:HA	12:A:297:ARG:HE	1.52	0.74
25:M:215:TRP:HH2	25:M:219:LEU:HD22	1.52	0.74
25:m:184:MET:HB3	25:m:189:ILE:HD11	1.69	0.74
31:s:45:LYS:HA	31:s:51:VAL:HG22	1.69	0.74
1:U:605:VAL:O	1:U:609:ASP:CB	2.33	0.74
2:V:286:ALA:HA	2:V:315:LYS:HD3	1.69	0.74
11:f:597:VAL:HB	11:f:635:LYS:HE2	1.68	0.74
12:A:354:ILE:HG22	12:A:385:ILE:HG21	1.69	0.74
21:I:25:MET:HA	21:I:28:ILE:HD13	1.70	0.74
23:K:169:ALA:N	23:K:178:GLN:OE1	2.21	0.74
32:T:180:ASP:HB3	32:T:183:SER:HB3	1.70	0.74
31:s:149:LEU:O	31:s:153:VAL:HB	1.88	0.74
1:U:725:MET:SD	9:c:182:GLY:C	2.70	0.74
11:f:482:ILE:HG22	11:f:501:LEU:HD22	1.69	0.74
11:f:560:LEU:HA	11:f:564:LEU:HD23	1.69	0.74
11:f:845:ARG:HH22	12:A:169:LYS:HB2	1.53	0.74
10:d:175:ARG:HH21	10:d:199:PHE:HB2	1.53	0.73
22:j:121:SER:HB3	22:j:124:ARG:HD3	1.70	0.73
23:k:219:THR:HB	23:k:221:GLN:HE22	1.52	0.73
32:t:92:LEU:HD21	32:t:110:MET:HE3	1.70	0.73
8:b:25:ARG:NH2	8:b:145:GLU:OE1	2.17	0.73
24:L:42:THR:O	24:L:137:TYR:OH	2.05	0.73
25:M:184:MET:HB3	25:M:189:ILE:HD11	1.69	0.73
25:M:198:TYR:CE2	25:M:211:LEU:HD22	2.21	0.73
25:m:215:TRP:HH2	25:m:219:LEU:HD22	1.52	0.73
5:Y:312:ARG:HA	5:Y:356:THR:HG22	1.69	0.73
9:c:192:LEU:CA	9:c:196:LEU:HB2	2.17	0.73
11:f:276:GLU:O	11:f:286:LYS:NZ	2.20	0.73
11:f:438:ASP:HA	11:f:477:MET:HE2	1.70	0.73
13:B:407:LEU:HD13	14:C:174:LEU:HB3	1.71	0.73
21:i:25:MET:HA	21:i:28:ILE:HD13	1.70	0.73
23:k:238:ILE:HA	23:k:241:ILE:HG22	1.69	0.73
29:q:19:ARG:HH21	29:q:31:ASP:HB2	1.52	0.73
2:V:465:ASP:O	2:V:469:THR:N	2.22	0.73
3:W:378:MET:HE1	3:W:413:ILE:HD11	1.70	0.73
8:b:144:GLY:N	8:b:173:VAL:HG23	1.79	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:871:PRO:HG2	11:f:883:ALA:HB3	1.69	0.73
12:A:322:ASN:ND2	35:A:501:ATP:O3G	2.20	0.73
14:C:113:ARG:NH2	14:C:128:PRO:O	2.20	0.73
7:a:270:ARG:HH12	7:a:310:LEU:HA	1.52	0.73
16:E:98:VAL:HG12	16:E:110:TYR:HB3	1.69	0.73
21:I:140:ASP:OD1	21:I:144:GLY:N	2.21	0.73
31:S:137:ALA:O	31:S:142:SER:OG	2.05	0.73
25:m:47:PHE:HB2	25:m:214:SER:HB3	1.69	0.73
5:Y:23:ARG:HH22	5:Y:53:TYR:HB3	1.53	0.73
8:b:25:ARG:NH1	8:b:114:GLY:O	2.22	0.73
11:f:253:LEU:HA	11:f:257:ARG:HD3	1.69	0.73
20:H:204:THR:N	20:H:207:ASN:OD1	2.20	0.73
19:g:240:VAL:HA	19:g:243:ALA:HB3	1.69	0.73
1:U:592:GLY:HA3	1:U:627:PHE:CD2	2.23	0.73
3:W:377:ARG:HA	3:W:380:GLN:HG2	1.71	0.73
7:a:100:THR:HG22	7:a:103:LYS:HE2	1.70	0.73
14:C:157:GLN:HE22	14:C:318:PRO:HD2	1.54	0.73
17:F:192:ASP:OD2	25:M:204:VAL:CB	2.37	0.73
21:I:38:LEU:HB3	21:I:43:VAL:HG23	1.69	0.73
25:M:237:LYS:HA	25:M:237:LYS:NZ	2.04	0.73
32:t:180:ASP:HB3	32:t:183:SER:HB3	1.70	0.73
3:W:131:VAL:HG13	3:W:144:ARG:HD3	1.71	0.73
6:Z:22:HIS:HA	6:Z:25:ARG:HG2	1.71	0.73
10:d:103:LEU:HD23	10:d:136:PRO:HB2	1.70	0.73
14:C:344:LEU:HD23	14:C:347:ILE:HD12	1.71	0.73
28:P:17:LYS:HD3	28:P:157:ASN:HB3	1.68	0.73
1:U:801:GLN:HB3	1:U:877:LEU:HD22	1.69	0.73
3:W:455:LEU:C	3:W:455:LEU:HD12	2.14	0.73
8:b:35:ILE:HD13	8:b:180:ALA:HB3	1.71	0.73
10:d:164:THR:HA	10:d:167:ILE:HG12	1.69	0.73
15:D:125:LYS:CG	15:D:126:PRO:CD	2.66	0.73
31:S:147:PRO:HB2	28:p:149:MET:HE3	1.68	0.73
21:i:140:ASP:OD1	21:i:144:GLY:N	2.22	0.73
11:f:140:LEU:HD13	11:f:144:LEU:HD23	1.70	0.73
11:f:479:LEU:HD12	11:f:514:VAL:HG22	1.69	0.73
11:f:608:LYS:HG2	11:f:611:GLN:HE21	1.53	0.73
35:D:501:ATP:O1A	16:E:291:ARG:NH2	2.22	0.73
23:K:78:MET:HA	23:K:141:LEU:HD23	1.71	0.73
25:M:47:PHE:HB2	25:M:214:SER:HB3	1.69	0.73
1:U:656:LEU:HD21	1:U:671:LEU:HD12	1.71	0.72
1:U:789:ILE:N	1:U:910:GLY:O	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:252:LYS:HA	7:a:255:TRP:HD1	1.54	0.72
9:c:57:MET:HE2	9:c:110:GLY:HA3	1.69	0.72
12:A:222:LYS:HG2	12:A:343:PHE:CD2	2.24	0.72
12:A:415:LYS:O	12:A:419:SER:OG	2.05	0.72
14:C:168:PRO:HB3	14:C:182:GLN:HB3	1.71	0.72
15:D:174:LYS:HG2	15:D:215:LEU:HD13	1.71	0.72
19:G:39:SER:N	19:G:168:ALA:O	2.21	0.72
20:H:139:TRP:HA	20:H:144:PRO:HA	1.68	0.72
23:k:169:ALA:N	23:k:178:GLN:OE1	2.21	0.72
24:l:93:LEU:HA	24:l:96:ARG:HB3	1.69	0.72
24:l:151:ALA:O	25:m:85:ARG:NH2	2.22	0.72
1:U:740:GLY:HA3	1:U:744:VAL:HG22	1.70	0.72
7:a:278:MET:HE2	7:a:339:ARG:HH12	1.54	0.72
12:A:314:ASN:HB3	33:v:203:PRO:HG3	1.71	0.72
25:M:191:LYS:HD2	25:M:234:GLU:HB2	1.71	0.72
26:N:138:TYR:O	26:N:142:THR:OG1	2.06	0.72
28:P:190:ILE:HG22	28:P:195:ILE:HG23	1.68	0.72
32:T:56:ASP:OD2	32:T:59:ASP:N	2.17	0.72
32:T:179:ARG:NH2	27:o:135:MET:SD	2.62	0.72
20:h:111:VAL:HG21	20:h:147:PHE:HD2	1.54	0.72
3:W:155:GLN:HG3	3:W:161:GLU:HG3	1.70	0.72
4:X:150:GLY:HA2	4:X:154:LEU:HG	1.71	0.72
5:Y:155:ASP:O	5:Y:158:THR:OG1	2.07	0.72
9:c:150:SER:HB2	9:c:155:VAL:HA	1.71	0.72
11:f:505:MET:HE3	11:f:537:THR:HG22	1.69	0.72
11:f:732:VAL:O	11:f:736:THR:OG1	2.08	0.72
14:C:203:VAL:HA	14:C:206:HIS:HD2	1.54	0.72
15:D:92:PHE:CZ	15:D:124:LEU:HD11	2.24	0.72
15:D:274:ARG:HG3	15:D:275:PHE:CD1	2.24	0.72
22:J:4:ASP:HB3	23:K:125:GLU:HB3	1.70	0.72
24:L:93:LEU:HA	24:L:96:ARG:HB3	1.69	0.72
25:M:203:GLU:CB	33:v:177:LEU:HD11	2.19	0.72
3:W:155:GLN:HG2	3:W:157:GLY:H	1.53	0.72
15:D:345:PHE:HB3	15:D:360:LEU:HD11	1.71	0.72
16:E:97:ARG:NH2	16:E:112:PRO:O	2.22	0.72
21:I:40:ASN:OD1	21:I:184:MET:N	2.22	0.72
19:g:39:SER:N	19:g:168:ALA:O	2.20	0.72
1:U:126:ILE:HG23	1:U:130:LEU:HD23	1.69	0.72
10:d:206:MET:O	10:d:210:ALA:HB3	1.90	0.72
11:f:833:PHE:CB	11:f:840:LEU:HD11	2.20	0.72
12:A:140:VAL:HA	12:A:153:LEU:HD13	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:A:339:ARG:NH1	17:F:426:GLU:OE2	2.21	0.72
16:E:101:ASP:OD2	16:E:104:THR:N	2.22	0.72
22:J:96:LEU:HA	29:Q:62:LYS:HE2	1.72	0.72
2:V:265:ASP:O	2:V:269:LYS:NZ	2.21	0.72
3:W:456:GLN:H	3:W:456:GLN:CD	1.97	0.72
9:c:89:PRO:HA	9:c:92:GLN:HG2	1.72	0.72
12:A:314:ASN:CB	33:v:203:PRO:HG3	2.19	0.72
13:B:107:MET:HB2	14:C:96:VAL:HB	1.72	0.72
14:C:76:VAL:HG22	14:C:87:VAL:HG22	1.70	0.72
24:L:189:LYS:HA	24:L:192:LEU:HG	1.72	0.72
19:g:126:THR:O	20:h:128:ARG:NH1	2.18	0.72
24:l:41:LYS:NZ	24:l:180:MET:O	2.23	0.72
30:r:44:THR:HG21	30:r:100:MET:HE3	1.71	0.72
5:Y:325:VAL:HG23	18:e:66:LYS:HD2	1.70	0.72
7:a:100:THR:HA	7:a:103:LYS:HG2	1.70	0.72
7:a:290:GLN:HA	7:a:332:HIS:HA	1.71	0.72
11:f:674:THR:O	11:f:678:LEU:HB2	1.90	0.72
16:E:265:ASP:CB	16:E:294:ARG:NH2	2.52	0.72
19:G:240:VAL:HA	19:G:243:ALA:HB3	1.70	0.72
22:J:23:GLN:HG2	22:J:149:PRO:HG2	1.72	0.72
5:Y:304:TYR:O	5:Y:308:LEU:HB2	1.89	0.72
12:A:224:LEU:HD11	35:A:501:ATP:H2'	1.72	0.72
15:D:164:TYR:O	15:D:174:LYS:NZ	2.20	0.72
16:E:148:VAL:HG13	16:E:149:ILE:HG13	1.71	0.72
19:G:17:SER:OG	19:G:21:ARG:N	2.22	0.72
20:H:111:VAL:HG21	20:H:147:PHE:HD2	1.54	0.72
22:J:121:SER:HB3	22:J:124:ARG:HD3	1.70	0.72
30:R:38:ASN:HD22	30:R:41:LEU:HD12	1.54	0.72
32:T:53:ALA:HB2	32:T:110:MET:HG2	1.71	0.72
2:V:32:PRO:O	2:V:36:GLU:HB3	1.88	0.72
2:V:128:ARG:HD3	2:V:171:VAL:HG11	1.72	0.72
7:a:18:GLN:HA	7:a:22:TRP:HD1	1.54	0.72
10:d:208:ASP:O	10:d:212:LYS:HB3	1.90	0.72
11:f:259:PHE:HE1	11:f:770:HIS:HB3	1.54	0.72
11:f:861:THR:CG2	11:f:876:HIS:HE1	2.03	0.72
13:B:54:PRO:HB2	13:B:61:LYS:HD2	1.71	0.72
14:C:169:VAL:HG13	14:C:288:ASN:HB2	1.70	0.72
15:D:95:ALA:HA	15:D:101:ALA:HA	1.72	0.72
16:E:55:GLN:O	17:F:132:TYR:HA	1.89	0.72
24:L:41:LYS:NZ	24:L:180:MET:O	2.23	0.72
30:R:137:GLY:HA3	29:q:142:ILE:HD11	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:h:39:LYS:HE2	20:h:144:PRO:HG2	1.72	0.72
21:i:92:LEU:HD22	21:i:96:ARG:HH21	1.55	0.72
22:j:23:GLN:HG2	22:j:149:PRO:HG2	1.72	0.72
3:W:221:LYS:HA	3:W:225:LYS:HD3	1.71	0.72
6:Z:83:LYS:HD2	6:Z:87:ALA:HA	1.70	0.72
11:f:180:GLN:NE2	11:f:218:GLU:OE2	2.23	0.72
12:A:392:ALA:HA	12:A:412:ALA:HB2	1.72	0.72
32:T:92:LEU:HD21	32:T:110:MET:HE3	1.70	0.72
24:l:189:LYS:HA	24:l:192:LEU:HG	1.72	0.72
1:U:770:TRP:NE1	9:c:183:HIS:CE1	2.54	0.71
4:X:335:LEU:HB3	4:X:339:ILE:HD12	1.71	0.71
10:d:175:ARG:HH12	10:d:198:LEU:HD13	1.55	0.71
11:f:89:MET:HE3	11:f:90:THR:HG23	1.72	0.71
13:B:313:LEU:O	13:B:346:ARG:NH1	2.22	0.71
14:C:183:PRO:O	14:C:290:LYS:NZ	2.23	0.71
20:H:39:LYS:HE2	20:H:144:PRO:HG2	1.72	0.71
20:H:174:LEU:O	20:H:178:TYR:CB	2.38	0.71
22:J:200:GLN:NE2	22:J:205:ASN:ND2	2.13	0.71
26:n:98:ILE:O	26:n:114:VAL:HB	1.90	0.71
6:Z:212:LEU:HD11	7:a:346:ILE:HG23	1.72	0.71
11:f:744:MET:O	11:f:748:LEU:HB2	1.90	0.71
14:C:169:VAL:HG13	14:C:288:ASN:CB	2.20	0.71
15:D:353:ASN:H	15:D:353:ASN:ND2	1.85	0.71
25:M:17:ASP:OD2	25:M:19:ARG:NH2	2.23	0.71
21:i:40:ASN:OD1	21:i:184:MET:N	2.22	0.71
5:Y:179:ARG:O	5:Y:182:VAL:HG23	1.89	0.71
10:d:207:THR:HA	10:d:211:LYS:HD3	1.70	0.71
11:f:348:ILE:CG2	11:f:751:TYR:HD1	1.66	0.71
14:C:70:GLY:CA	14:C:118:ASN:CG	2.63	0.71
15:D:278:GLN:HE22	15:D:283:ARG:HD3	1.54	0.71
21:I:229:LYS:N	21:I:232:GLU:OE2	2.23	0.71
30:R:44:THR:HG21	30:R:100:MET:HE3	1.71	0.71
26:n:20:THR:HB	26:n:28:ASN:HB3	1.71	0.71
30:r:38:ASN:HD22	30:r:41:LEU:HD12	1.54	0.71
32:t:53:ALA:HB2	32:t:110:MET:HG2	1.70	0.71
2:V:62:HIS:HA	2:V:65:ARG:HB3	1.71	0.71
3:W:315:MET:CE	3:W:361:HIS:HB2	2.21	0.71
3:W:455:LEU:HD12	3:W:455:LEU:O	1.91	0.71
5:Y:14:ASN:HB2	5:Y:15:PRO:HD3	1.72	0.71
7:a:140:GLU:O	7:a:143:ASN:ND2	2.23	0.71
12:A:172:VAL:HG12	12:A:228:ALA:HB2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:D:167:ILE:HD11	15:D:214:MET:O	1.89	0.71
16:E:84:ARG:O	16:E:85:ARG:NE	2.20	0.71
26:N:98:ILE:O	26:N:114:VAL:HB	1.90	0.71
22:j:88:ARG:NH1	29:q:69:MET:O	2.23	0.71
23:k:41:GLN:NE2	23:k:151:PRO:O	2.23	0.71
25:m:17:ASP:OD2	25:m:19:ARG:NH2	2.23	0.71
2:V:200:ARG:HD2	2:V:242:HIS:HB2	1.72	0.71
5:Y:184:GLN:NE2	5:Y:203:ASP:OD1	2.23	0.71
9:c:184:LEU:H	9:c:184:LEU:CD2	2.04	0.71
10:d:140:GLU:HG3	10:d:144:MET:HE3	1.70	0.71
11:f:781:TYR:HE1	11:f:799:VAL:HG23	1.56	0.71
14:C:207:THR:HG23	14:C:209:CYS:HB2	1.72	0.71
16:E:115:VAL:HB	16:E:120:TYR:CE2	2.25	0.71
16:E:264:MET:CE	16:E:294:ARG:CB	2.68	0.71
21:I:3:ARG:HH12	23:K:11:GLY:HA2	1.54	0.71
21:I:92:LEU:HD22	21:I:96:ARG:HH21	1.55	0.71
25:M:179:LEU:HD13	25:M:192:GLU:HG2	1.70	0.71
21:i:239:LYS:NZ	21:i:243:GLU:OE2	2.23	0.71
7:a:374:ILE:HG13	10:d:255:MET:HE2	1.72	0.71
11:f:414:LEU:HA	11:f:417:ILE:HD12	1.73	0.71
14:C:227:GLY:HA2	14:C:230:MET:HE2	1.72	0.71
27:O:167:LEU:HD21	31:s:35:ILE:HD11	1.71	0.71
21:i:229:LYS:N	21:i:232:GLU:OE2	2.23	0.71
25:m:8:ASP:O	25:m:22:GLN:NE2	2.23	0.71
25:m:46:VAL:HG22	25:m:215:TRP:HD1	1.54	0.71
6:Z:29:VAL:HG11	6:Z:33:LYS:HB2	1.73	0.71
11:f:608:LYS:HA	11:f:611:GLN:HG2	1.71	0.71
11:f:765:ALA:HA	11:f:770:HIS:O	1.91	0.71
12:A:314:ASN:CG	33:v:203:PRO:HG3	2.16	0.71
25:M:235:ALA:O	25:M:239:ALA:HB2	1.90	0.71
31:S:149:LEU:O	31:S:153:VAL:HB	1.88	0.71
20:h:174:LEU:O	20:h:178:TYR:CB	2.38	0.71
33:v:174:PHE:CZ	33:v:184:HIS:CD2	2.77	0.71
1:U:788:VAL:HG13	1:U:884:VAL:HG11	1.70	0.71
3:W:162:ALA:HB1	3:W:192:LEU:HB3	1.71	0.71
6:Z:165:GLU:HB3	6:Z:168:GLU:HG2	1.73	0.71
7:a:284:ARG:NH2	7:a:288:HIS:O	2.23	0.71
25:M:196:ILE:HG22	25:M:197:ILE:HD13	1.71	0.71
2:V:31:ALA:HB3	2:V:32:PRO:HD3	1.73	0.71
5:Y:186:LEU:HG	5:Y:212:GLU:OE2	1.89	0.71
12:A:300:LEU:HD23	12:A:303:ILE:HD12	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G:217:VAL:HG12	19:G:230:LEU:HD13	1.73	0.71
21:I:239:LYS:NZ	21:I:243:GLU:OE2	2.23	0.71
22:J:65:LEU:HD12	22:J:69:VAL:HG11	1.73	0.71
32:T:92:LEU:HD23	32:T:125:VAL:HG21	1.73	0.71
21:i:218:ARG:NH1	21:i:223:THR:OG1	2.21	0.71
2:V:228:ARG:O	2:V:232:HIS:ND1	2.22	0.71
8:b:62:THR:HG23	8:b:74:LYS:HG3	1.73	0.71
11:f:702:PRO:CB	11:f:787:LEU:HD11	2.17	0.71
15:D:116:LEU:HD11	15:D:140:VAL:HG13	1.73	0.71
21:I:218:ARG:NH1	21:I:223:THR:OG1	2.21	0.71
24:L:40:SER:OG	24:L:43:HIS:N	2.24	0.71
1:U:639:LEU:HD21	14:C:49:ARG:HD2	1.73	0.70
11:f:417:ILE:HG22	11:f:418:LEU:HD12	1.72	0.70
11:f:529:SER:HB2	11:f:569:LYS:HZ3	1.55	0.70
11:f:766:GLN:HE22	11:f:807:ARG:HH11	1.27	0.70
12:A:345:LEU:HD12	12:A:346:PRO:HD2	1.72	0.70
15:D:39:ASP:O	15:D:43:ARG:N	2.21	0.70
15:D:96:VAL:HG23	15:D:102:ILE:HD11	1.73	0.70
25:M:194:ALA:HB1	25:M:239:ALA:HB2	1.73	0.70
25:M:215:TRP:HB2	25:M:227:VAL:HG12	1.73	0.70
32:T:27:LEU:HD22	32:T:184:TYR:HB2	1.73	0.70
20:h:137:CYS:HA	20:h:145:TYR:O	1.91	0.70
23:k:78:MET:HA	23:k:141:LEU:HD23	1.71	0.70
10:d:175:ARG:NH1	10:d:209:TYR:OH	2.24	0.70
16:E:44:GLU:HA	16:E:47:LEU:HD12	1.73	0.70
28:P:149:MET:HE3	31:s:147:PRO:HB2	1.70	0.70
23:k:209:LYS:O	23:k:214:ASN:ND2	2.24	0.70
23:k:222:PRO:O	23:k:225:ASN:ND2	2.24	0.70
24:l:121:GLN:HA	25:m:129:ARG:HH12	1.53	0.70
1:U:218:GLN:HG3	1:U:752:THR:HB	1.73	0.70
8:b:141:ILE:HA	8:b:171:VAL:HG23	1.73	0.70
12:A:49:GLU:HG3	13:B:65:LEU:HD22	1.71	0.70
13:B:311:GLU:O	13:B:315:GLN:CB	2.39	0.70
14:C:158:ILE:HG12	14:C:199:LEU:HD11	1.73	0.70
20:H:137:CYS:HA	20:H:145:TYR:O	1.91	0.70
23:K:209:LYS:O	23:K:214:ASN:ND2	2.24	0.70
21:i:34:CYS:HB2	21:i:164:ILE:HD12	1.73	0.70
11:f:469:TYR:O	11:f:472:HIS:ND1	2.25	0.70
11:f:667:GLY:HA2	11:f:671:ALA:HB2	1.73	0.70
12:A:312:ARG:HB2	12:A:315:ILE:HD13	1.74	0.70
23:K:222:PRO:O	23:K:225:ASN:ND2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:g:217:VAL:HG12	19:g:230:LEU:HD13	1.73	0.70
20:h:204:THR:N	20:h:207:ASN:OD1	2.20	0.70
32:t:92:LEU:HD23	32:t:125:VAL:HG21	1.73	0.70
1:U:242:LEU:HA	1:U:245:ALA:HB3	1.73	0.70
1:U:243:LEU:HD11	1:U:915:LYS:HB2	1.74	0.70
21:I:13:SER:N	21:I:17:ARG:O	2.16	0.70
21:I:106:PRO:HD2	21:I:109:GLN:HE21	1.57	0.70
24:l:65:HIS:O	24:l:89:ARG:NH2	2.22	0.70
5:Y:81:LEU:HD13	5:Y:110:TYR:HB3	1.74	0.70
7:a:130:VAL:HG22	7:a:134:THR:H	1.57	0.70
9:c:180:ASN:HA	9:c:184:LEU:HD13	1.72	0.70
13:B:135:ILE:HG22	13:B:159:VAL:HB	1.72	0.70
16:E:119:VAL:HG22	16:E:122:MET:HE2	1.73	0.70
22:j:65:LEU:HD12	22:j:69:VAL:HG11	1.73	0.70
24:l:40:SER:OG	24:l:43:HIS:N	2.24	0.70
1:U:27:LEU:HB2	1:U:59:PHE:HE2	1.56	0.70
1:U:719:ASP:O	1:U:727:LYS:NZ	2.24	0.70
2:V:33:GLN:HE21	2:V:85:ALA:HA	1.55	0.70
6:Z:8:LYS:HG3	6:Z:47:VAL:HG23	1.71	0.70
6:Z:11:VAL:O	6:Z:163:GLY:N	2.18	0.70
8:b:144:GLY:CA	8:b:173:VAL:CG2	2.69	0.70
11:f:317:LEU:HG	11:f:321:MET:HE2	1.74	0.70
11:f:665:GLU:HG2	11:f:669:GLU:HG3	1.72	0.70
13:B:410:ARG:NE	14:C:167:LEU:HD13	2.05	0.70
17:F:169:ASP:OD2	17:F:171:ARG:NE	2.24	0.70
17:F:368:ILE:C	17:F:371:ARG:HG3	2.17	0.70
26:N:20:THR:HB	26:N:28:ASN:HB3	1.71	0.70
21:i:105:ILE:HD12	21:i:106:PRO:HD2	1.74	0.70
32:t:27:LEU:HD22	32:t:184:TYR:HB2	1.73	0.70
33:v:184:HIS:CE1	33:v:186:CYS:CB	2.74	0.70
1:U:252:LEU:O	1:U:256:ALA:CB	2.39	0.70
3:W:115:ILE:HG23	3:W:120:ILE:HB	1.74	0.70
3:W:260:SER:HA	3:W:263:TRP:HE3	1.57	0.70
5:Y:230:ALA:HB3	5:Y:231:LEU:HD23	1.74	0.70
11:f:597:VAL:HG13	11:f:600:TYR:HB2	1.73	0.70
11:f:759:LEU:H	11:f:809:ILE:HB	1.57	0.70
15:D:153:MET:HA	15:D:228:ILE:HG12	1.72	0.70
29:Q:19:ARG:O	29:Q:32:HIS:N	2.24	0.70
2:V:92:ARG:O	2:V:96:ARG:NH1	2.24	0.70
2:V:401:ASN:HA	2:V:404:LYS:HB2	1.73	0.70
3:W:68:VAL:HA	3:W:71:VAL:HG12	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:104:MET:HG2	5:Y:130:LYS:HE2	1.74	0.70
9:c:41:MET:HE1	9:c:112:TYR:HB2	1.73	0.70
11:f:186:THR:HG23	11:f:197:ALA:HB1	1.74	0.70
15:D:292:LEU:O	15:D:296:MET:HB2	1.91	0.70
25:M:46:VAL:HG22	25:M:215:TRP:HD1	1.54	0.70
1:U:748:LEU:HD21	1:U:763:VAL:HG11	1.74	0.70
6:Z:170:VAL:HG22	9:c:152:LYS:HA	1.73	0.70
16:E:198:VAL:HG12	16:E:200:SER:H	1.55	0.70
37:E:401:ADP:O2B	17:F:344:ARG:NH1	2.25	0.70
18:e:48:VAL:HA	18:e:52:PHE:HB2	1.73	0.70
24:L:196:ARG:HH21	24:L:239:ARG:HG3	1.57	0.70
11:f:20:ALA:HB2	11:f:71:TYR:HA	1.74	0.69
11:f:213:GLN:O	11:f:217:LEU:CB	2.38	0.69
12:A:347:ASP:O	12:A:351:ARG:NH2	2.24	0.69
13:B:93:GLU:O	13:B:97:SER:OG	2.09	0.69
15:D:204:MET:HB2	15:D:310:ALA:HB2	1.74	0.69
25:M:37:ILE:HD13	25:M:197:ILE:HD11	1.74	0.69
28:P:191:GLU:OE2	28:P:194:LYS:NZ	2.22	0.69
29:Q:19:ARG:HB3	29:Q:31:ASP:HA	1.74	0.69
25:m:215:TRP:HB2	25:m:227:VAL:HG12	1.73	0.69
9:c:130:GLN:HB3	9:c:162:LEU:HD22	1.73	0.69
10:d:206:MET:O	10:d:210:ALA:CB	2.40	0.69
11:f:429:ILE:HG23	11:f:444:ALA:HB1	1.75	0.69
12:A:258:ARG:HG3	12:A:305:GLN:HE22	1.56	0.69
13:B:120:HIS:HA	13:B:134:SER:HA	1.75	0.69
17:F:364:ARG:HE	17:F:367:GLN:HB3	1.57	0.69
19:G:100:ASN:OD1	26:N:61:TYR:OH	2.10	0.69
25:M:235:ALA:O	25:M:239:ALA:HB3	1.91	0.69
33:v:156:MET:HE3	33:v:183:LYS:C	2.17	0.69
1:U:98:GLU:HA	1:U:101:ILE:HG12	1.72	0.69
4:X:74:ARG:HB2	4:X:75:PRO:HD3	1.74	0.69
7:a:211:PHE:HB3	7:a:271:LYS:HE2	1.74	0.69
11:f:72:ARG:HH12	11:f:83:ARG:HA	1.56	0.69
23:K:41:GLN:NE2	23:K:151:PRO:O	2.23	0.69
24:L:137:TYR:HE2	24:L:217:LYS:HA	1.57	0.69
19:g:17:SER:OG	19:g:21:ARG:N	2.22	0.69
1:U:349:ASP:HB3	1:U:352:ILE:HG13	1.74	0.69
7:a:73:PRO:HD2	7:a:108:ASP:HB3	1.72	0.69
11:f:498:LEU:HD13	11:f:526:ALA:HB3	1.72	0.69
11:f:559:PRO:HA	11:f:562:LEU:HG	1.74	0.69
11:f:757:ASN:CB	33:v:213:ILE:CA	2.69	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B:339:PRO:HA	13:B:342:ILE:HB	1.72	0.69
14:C:340:ARG:NH1	14:C:342:ILE:O	2.25	0.69
15:D:269:ALA:HB1	16:E:255:ARG:HG2	1.73	0.69
17:F:205:PRO:HB2	17:F:327:LYS:HE2	1.73	0.69
30:R:44:THR:HG21	30:R:100:MET:HB2	1.74	0.69
24:l:196:ARG:HH21	24:l:239:ARG:HG3	1.57	0.69
1:U:584:TYR:CE2	1:U:768:GLN:NE2	2.61	0.69
2:V:151:THR:HA	2:V:154:ALA:HB3	1.75	0.69
2:V:184:ALA:HA	2:V:187:ILE:HD12	1.74	0.69
9:c:117:GLY:N	9:c:146:ASP:OD1	2.24	0.69
11:f:710:LEU:HD12	11:f:729:MET:HE2	1.73	0.69
11:f:807:ARG:HB2	11:f:807:ARG:NH2	2.06	0.69
30:R:38:ASN:O	30:R:184:TRP:NE1	2.22	0.69
1:U:53:GLY:O	1:U:55:ARG:NH1	2.26	0.69
3:W:315:MET:CE	3:W:362:ASN:HD21	2.04	0.69
9:c:31:VAL:HB	9:c:205:ILE:HG13	1.73	0.69
11:f:191:ILE:HG23	11:f:231:LEU:HD21	1.74	0.69
11:f:637:LYS:HE2	11:f:673:ARG:HB2	1.72	0.69
12:A:176:ASP:OD1	12:A:360:ARG:NH2	2.25	0.69
13:B:107:MET:HE3	13:B:151:LEU:HB3	1.75	0.69
26:N:40:ARG:HH21	26:N:181:GLU:C	2.01	0.69
33:v:156:MET:HE2	33:v:184:HIS:HA	1.71	0.69
1:U:9:ILE:HD12	1:U:9:ILE:N	2.07	0.69
2:V:196:SER:OG	14:C:29:GLU:HA	1.91	0.69
5:Y:220:VAL:HG11	5:Y:249:VAL:HG21	1.75	0.69
20:H:119:GLN:O	20:H:122:THR:OG1	2.10	0.69
24:L:117:GLN:O	24:L:120:THR:OG1	2.11	0.69
29:Q:142:ILE:HD11	30:r:137:GLY:HA3	1.74	0.69
21:i:68:LEU:HD11	21:i:72:MET:HB2	1.73	0.69
31:s:137:ALA:O	31:s:142:SER:OG	2.06	0.69
1:U:7:GLY:N	10:d:79:LYS:HE3	2.08	0.69
1:U:490:ARG:HB2	1:U:493:VAL:HG12	1.75	0.69
1:U:682:TYR:HD1	9:c:182:GLY:O	1.75	0.69
1:U:701:ILE:HD13	1:U:810:THR:HG22	1.73	0.69
1:U:789:ILE:HA	1:U:880:ASN:O	1.93	0.69
2:V:416:ARG:NH1	5:Y:351:ASN:OD1	2.24	0.69
3:W:56:THR:HG21	3:W:103:LYS:HE2	1.73	0.69
3:W:315:MET:CE	3:W:362:ASN:ND2	2.56	0.69
5:Y:88:LEU:HD23	5:Y:103:ALA:HB2	1.75	0.69
5:Y:148:GLY:HA3	5:Y:157:ILE:HG12	1.75	0.69
7:a:231:GLN:HA	7:a:234:ILE:HD13	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d:75:MET:HE2	10:d:102:ASN:HD22	1.57	0.69
11:f:288:VAL:HG21	11:f:872:VAL:HG11	1.74	0.69
11:f:331:LEU:HD11	11:f:808:ASN:HD22	1.57	0.69
11:f:408:LEU:HD11	11:f:797:LEU:HD11	1.73	0.69
11:f:755:ASP:N	11:f:755:ASP:OD1	2.25	0.69
11:f:764:LEU:HB3	11:f:771:LEU:HD12	1.75	0.69
12:A:114:ASN:HB3	12:A:120:LYS:HG2	1.73	0.69
14:C:175:PHE:HD2	14:C:182:GLN:HG2	1.58	0.69
16:E:147:GLU:HA	16:E:151:LEU:HD12	1.73	0.69
16:E:181:THR:N	37:E:401:ADP:O1A	2.21	0.69
17:F:318:ASP:OD2	17:F:344:ARG:NH2	2.26	0.69
22:J:90:GLU:O	22:J:93:SER:OG	2.10	0.69
25:M:106:ILE:HD12	25:M:107:PRO:HD2	1.74	0.69
24:l:117:GLN:O	24:l:120:THR:OG1	2.11	0.69
26:n:40:ARG:HH12	26:n:183:GLY:N	1.91	0.69
29:q:19:ARG:HB3	29:q:31:ASP:HA	1.74	0.69
30:r:44:THR:HG21	30:r:100:MET:HB2	1.74	0.69
33:v:212:ARG:O	33:v:213:ILE:OXT	2.10	0.69
8:b:7:MET:HB3	8:b:109:ILE:HG12	1.73	0.69
11:f:45:LEU:HD21	11:f:55:GLU:HB2	1.75	0.69
17:F:371:ARG:HB3	17:F:371:ARG:NH1	2.01	0.69
25:M:15:SER:OG	25:M:17:ASP:OD1	2.07	0.69
25:m:99:ARG:NH2	25:m:105:ASN:OD1	2.26	0.69
9:c:162:LEU:HD12	9:c:199:HIS:O	1.93	0.69
10:d:134:LYS:HA	10:d:137:VAL:HG22	1.73	0.69
12:A:354:ILE:HB	12:A:385:ILE:HD13	1.73	0.69
15:D:249:ASP:OD1	15:D:252:ARG:NH2	2.26	0.69
21:I:68:LEU:HD11	21:I:72:MET:HB2	1.73	0.69
25:M:99:ARG:NH2	25:M:105:ASN:OD1	2.26	0.69
1:U:745:THR:O	1:U:784:THR:N	2.26	0.68
5:Y:84:LEU:HD12	5:Y:107:LYS:HZ1	1.58	0.68
6:Z:112:MET:O	6:Z:119:SER:OG	2.09	0.68
7:a:321:LYS:O	7:a:334:THR:OG1	2.09	0.68
11:f:479:LEU:HA	11:f:514:VAL:HG13	1.73	0.68
14:C:63:LEU:HD21	15:D:81:ARG:HD2	1.73	0.68
16:E:147:GLU:HG3	16:E:151:LEU:HD12	1.75	0.68
21:I:34:CYS:HB2	21:I:164:ILE:HD12	1.73	0.68
22:J:185:ASP:HA	22:J:188:ILE:HD12	1.76	0.68
29:Q:13:VAL:HG11	29:Q:105:ALA:HB1	1.76	0.68
5:Y:94:ASN:O	5:Y:95:LEU:HD22	1.93	0.68
11:f:41:LYS:HE3	11:f:56:LEU:HD21	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:408:LEU:HB2	11:f:439:TYR:HD1	1.59	0.68
11:f:811:LEU:HA	11:f:878:GLU:HB2	1.75	0.68
12:A:190:VAL:HG21	12:A:339:ARG:HD2	1.75	0.68
12:A:200:ARG:HD3	17:F:408:LEU:HD11	1.75	0.68
13:B:199:GLU:HA	13:B:203:LEU:HB3	1.75	0.68
26:N:40:ARG:NH2	26:N:181:GLU:O	2.26	0.68
21:i:174:MET:HE1	21:i:199:LYS:HB3	1.75	0.68
25:m:110:HIS:NE2	26:n:70:LEU:HD23	2.08	0.68
2:V:79:VAL:HG13	2:V:81:GLN:H	1.58	0.68
11:f:399:LEU:HD12	11:f:407:MET:HA	1.75	0.68
12:A:39:SER:OG	13:B:57:GLN:HB2	1.93	0.68
16:E:186:ALA:O	16:E:189:SER:OG	2.11	0.68
21:I:170:ALA:O	21:I:173:SER:OG	2.09	0.68
3:W:348:GLU:HA	3:W:351:TRP:HD1	1.58	0.68
5:Y:36:ALA:O	5:Y:40:GLU:CB	2.40	0.68
6:Z:228:TYR:HD2	7:a:338:PRO:HB2	1.59	0.68
11:f:455:VAL:HG12	11:f:457:ASN:H	1.57	0.68
11:f:487:LEU:HA	11:f:524:MET:HE2	1.73	0.68
15:D:259:PRO:HB3	15:D:304:ASN:HB2	1.75	0.68
25:M:8:ASP:O	25:M:22:GLN:NE2	2.23	0.68
24:l:137:TYR:HE2	24:l:217:LYS:HA	1.57	0.68
29:q:19:ARG:O	29:q:32:HIS:N	2.24	0.68
1:U:215:ASN:HA	1:U:218:GLN:HB3	1.75	0.68
1:U:529:ILE:HG13	1:U:555:VAL:HG11	1.76	0.68
3:W:247:TYR:HA	3:W:250:ILE:HG13	1.76	0.68
7:a:174:LYS:HG2	7:a:178:ARG:HH12	1.59	0.68
8:b:150:THR:HB	8:b:170:LEU:HD21	1.74	0.68
10:d:149:ASN:HA	10:d:152:PHE:HD2	1.59	0.68
25:M:100:SER:O	32:T:65:GLN:NE2	2.26	0.68
24:l:214:ILE:O	24:l:221:PHE:HA	1.94	0.68
3:W:41:GLN:HG3	3:W:92:LYS:HD2	1.76	0.68
5:Y:361:SER:O	5:Y:365:GLN:NE2	2.27	0.68
11:f:384:ALA:CA	11:f:419:LEU:HB3	2.22	0.68
11:f:873:LEU:HD11	11:f:876:HIS:C	2.18	0.68
13:B:112:LEU:HD12	13:B:148:CYS:HB2	1.75	0.68
16:E:61:LEU:HD12	16:E:70:ILE:HG22	1.76	0.68
16:E:176:PRO:HA	37:E:401:ADP:O3B	1.93	0.68
17:F:196:GLN:HE22	33:v:164:THR:HG21	1.57	0.68
17:F:368:ILE:C	17:F:371:ARG:HD2	2.19	0.68
21:I:174:MET:HE1	21:I:199:LYS:HB3	1.75	0.68
30:r:18:SER:HG	30:r:173:ALA:H	1.42	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:r:38:ASN:O	30:r:184:TRP:NE1	2.22	0.68
3:W:313:GLU:H	3:W:365:ILE:HD13	1.59	0.68
3:W:359:VAL:HG21	3:W:392:PHE:CD2	2.28	0.68
6:Z:187:LEU:HD13	10:d:250:ALA:HB1	1.75	0.68
9:c:189:ILE:HA	9:c:192:LEU:HG	1.75	0.68
11:f:496:ASP:O	11:f:499:THR:OG1	2.10	0.68
11:f:529:SER:HB2	11:f:569:LYS:NZ	2.07	0.68
13:B:233:THR:N	37:B:501:ADP:O1A	2.18	0.68
16:E:337:GLY:O	16:E:378:LYS:NZ	2.27	0.68
24:L:64:LEU:HD11	24:L:72:ILE:HD11	1.75	0.68
24:L:214:ILE:O	24:L:221:PHE:HA	1.94	0.68
29:Q:164:LEU:HA	29:Q:167:LEU:HD12	1.75	0.68
21:i:106:PRO:HD2	21:i:109:GLN:HE21	1.57	0.68
23:k:228:MET:HE3	23:k:230:THR:HG23	1.76	0.68
24:l:64:LEU:HD11	24:l:72:ILE:HD11	1.75	0.68
25:m:197:ILE:HA	25:m:200:VAL:HG12	1.75	0.68
2:V:176:MET:O	2:V:180:ARG:HG2	1.94	0.68
11:f:165:GLU:O	11:f:169:GLU:HB2	1.93	0.68
11:f:180:GLN:HG2	11:f:219:LYS:HB2	1.76	0.68
14:C:142:LYS:O	14:C:201:ARG:NH2	2.27	0.68
21:I:105:ILE:HD12	21:I:106:PRO:HD2	1.74	0.68
24:L:189:LYS:HG3	24:L:193:ARG:HH12	1.58	0.68
27:O:73:LEU:HD12	27:O:74:PRO:HD2	1.76	0.68
24:l:189:LYS:HG3	24:l:193:ARG:HH12	1.58	0.68
2:V:89:LYS:HD3	2:V:118:GLN:HE22	1.59	0.68
2:V:415:SER:HB2	5:Y:346:LYS:HB3	1.76	0.68
3:W:165:ILE:HG12	3:W:169:LEU:HD21	1.76	0.68
4:X:222:GLU:HA	4:X:225:TRP:HE1	1.57	0.68
5:Y:176:ARG:O	5:Y:180:LEU:HB2	1.94	0.68
10:d:48:LEU:HD22	10:d:81:TYR:CZ	2.29	0.68
13:B:227:PRO:O	13:B:230:THR:OG1	2.08	0.68
22:J:11:SER:OG	22:J:13:ASP:OD1	2.08	0.68
29:q:164:LEU:HA	29:q:167:LEU:HD12	1.75	0.68
7:a:188:LEU:HD11	7:a:192:GLU:HB2	1.76	0.68
17:F:217:ILE:HG13	17:F:218:GLN:H	1.58	0.68
18:e:47:ASN:O	18:e:52:PHE:N	2.20	0.68
27:O:19:ARG:NH1	27:O:169:SER:O	2.27	0.68
1:U:8:ILE:O	1:U:11:LEU:HG	1.93	0.67
1:U:31:VAL:HG23	1:U:63:VAL:HG12	1.77	0.67
1:U:791:LEU:O	1:U:914:LEU:N	2.22	0.67
5:Y:220:VAL:HA	5:Y:223:THR:HG22	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:35:HIS:NE2	8:b:17:ARG:HB2	2.08	0.67
11:f:567:LEU:HA	11:f:598:CYS:O	1.94	0.67
12:A:73:ALA:N	13:B:138:PHE:O	2.27	0.67
24:L:148:CYS:HG	24:L:150:SER:HG	1.39	0.67
30:R:104:TRP:NE1	30:R:181:GLU:HG3	2.10	0.67
3:W:32:ALA:O	3:W:86:ASN:ND2	2.27	0.67
15:D:226:ALA:HB3	15:D:260:ALA:HB2	1.76	0.67
35:D:501:ATP:O1A	16:E:291:ARG:CZ	2.41	0.67
27:o:203:ARG:NH2	28:p:155:GLU:OE1	2.27	0.67
28:p:191:GLU:OE2	28:p:194:LYS:NZ	2.22	0.67
2:V:94:VAL:HG22	2:V:138:PRO:HD3	1.76	0.67
2:V:414:TYR:HB2	2:V:417:ILE:HB	1.76	0.67
3:W:46:THR:O	3:W:49:SER:OG	2.10	0.67
3:W:95:SER:O	3:W:99:GLN:NE2	2.27	0.67
11:f:761:MET:CG	11:f:807:ARG:HH22	2.07	0.67
13:B:223:ILE:HG13	13:B:347:ILE:HG21	1.76	0.67
17:F:230:GLY:HA3	17:F:392:ASN:ND2	2.09	0.67
29:Q:102:LEU:HD22	29:Q:103:LEU:H	1.59	0.67
29:Q:168:GLN:NE2	29:Q:175:LEU:O	2.28	0.67
1:U:564:ASP:OD1	1:U:590:TYR:OH	2.12	0.67
1:U:583:MET:CG	1:U:618:ALA:HA	2.23	0.67
11:f:331:LEU:O	11:f:335:ARG:CB	2.32	0.67
12:A:230:ALA:HA	12:A:233:THR:HB	1.76	0.67
14:C:88:LYS:HB2	14:C:94:LYS:HG2	1.75	0.67
15:D:235:PHE:HZ	15:D:270:ILE:HG13	1.59	0.67
20:H:74:LEU:HD12	20:H:136:ILE:HG12	1.75	0.67
22:j:96:LEU:O	30:r:81:LYS:NZ	2.27	0.67
22:j:131:ALA:N	22:j:147:THR:OG1	2.18	0.67
22:j:185:ASP:HA	22:j:188:ILE:HD12	1.76	0.67
32:t:41:ARG:NH2	32:t:54:SER:OG	2.28	0.67
1:U:8:ILE:H	1:U:9:ILE:HD12	1.59	0.67
1:U:791:LEU:HD22	1:U:911:ILE:HD11	1.77	0.67
3:W:87:ILE:HB	3:W:91:SER:HB2	1.76	0.67
5:Y:20:ALA:CB	5:Y:150:PHE:HA	2.24	0.67
9:c:125:VAL:HA	9:c:128:ASN:HD22	1.59	0.67
11:f:393:ASP:HA	11:f:396:ASN:HB2	1.77	0.67
13:B:361:LYS:NZ	13:B:390:LEU:HG	2.10	0.67
17:F:79:LYS:HD3	17:F:83:ASN:HD22	1.59	0.67
25:M:214:SER:OG	25:M:224:HIS:NE2	2.21	0.67
26:n:36:PRO:HA	26:n:42:PHE:CD1	2.30	0.67
2:V:281:ASN:HA	5:Y:385:ARG:HD3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:b:85:THR:HG22	8:b:88:THR:HG22	1.76	0.67
12:A:383:ALA:HB2	35:A:501:ATP:O4'	1.95	0.67
14:C:209:CYS:SG	14:C:245:ILE:HG13	2.34	0.67
25:M:240:LYS:HA	25:M:240:LYS:HZ2	1.60	0.67
20:h:35:SER:OG	20:h:47:ALA:O	2.08	0.67
24:l:156:CYS:HA	25:m:58:TYR:CA	2.21	0.67
33:v:153:ARG:HG3	33:v:160:LYS:CA	2.24	0.67
1:U:326:ILE:O	1:U:330:SER:OG	2.09	0.67
1:U:500:ASN:OD1	1:U:508:THR:OG1	2.12	0.67
5:Y:243:GLY:O	5:Y:247:LEU:HB2	1.95	0.67
5:Y:349:LYS:HG3	5:Y:350:VAL:H	1.60	0.67
11:f:733:GLY:O	11:f:746:ARG:NH1	2.25	0.67
11:f:777:THR:OG1	11:f:805:ASP:OD2	2.07	0.67
11:f:872:VAL:HG21	11:f:881:GLU:HB3	1.77	0.67
23:K:228:MET:HE3	23:K:230:THR:HG23	1.76	0.67
24:L:65:HIS:O	24:L:89:ARG:NH2	2.22	0.67
19:g:159:TYR:HB3	20:h:81:PRO:HG3	1.76	0.67
23:k:195:ILE:O	23:k:198:SER:OG	2.13	0.67
25:m:106:ILE:HD12	25:m:107:PRO:HD2	1.74	0.67
29:q:102:LEU:HD22	29:q:103:LEU:H	1.59	0.67
29:q:168:GLN:NE2	29:q:175:LEU:O	2.28	0.67
30:r:77:ALA:O	30:r:120:ARG:NH2	2.28	0.67
7:a:243:GLY:HA2	7:a:275:LEU:HG	1.76	0.67
11:f:92:VAL:HG22	11:f:129:LEU:HD23	1.77	0.67
14:C:247:PHE:HD1	14:C:292:ILE:HB	1.60	0.67
15:D:92:PHE:HA	15:D:103:VAL:HG12	1.76	0.67
15:D:355:SER:OG	15:D:394:VAL:O	2.07	0.67
21:I:14:PRO:HA	22:J:21:TYR:CE1	2.30	0.67
23:K:91:LYS:HE2	23:K:119:LEU:HD21	1.77	0.67
26:N:36:PRO:HA	26:N:42:PHE:CD1	2.30	0.67
26:N:40:ARG:NE	26:N:103:TRP:CE3	2.63	0.67
31:S:171:ALA:HA	31:S:174:LEU:HD12	1.75	0.67
2:V:423:ALA:HB1	2:V:428:LEU:HG	1.75	0.67
5:Y:276:ALA:HB2	18:e:60:LEU:HD11	1.75	0.67
8:b:180:ALA:O	8:b:184:ILE:HG12	1.95	0.67
10:d:188:LYS:HB3	10:d:215:TRP:HZ3	1.59	0.67
11:f:56:LEU:O	11:f:60:VAL:HG12	1.95	0.67
11:f:552:ASP:O	11:f:556:ARG:HB3	1.94	0.67
12:A:314:ASN:CG	33:v:203:PRO:CD	2.53	0.67
13:B:76:GLU:O	13:B:80:ARG:HB2	1.95	0.67
15:D:238:LYS:HB3	16:E:207:TYR:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:D:332:GLU:HG3	15:D:334:PRO:HD3	1.75	0.67
21:I:11:ILE:HG23	22:J:18:GLN:HE22	1.59	0.67
22:J:131:ALA:N	22:J:147:THR:OG1	2.18	0.67
30:R:77:ALA:O	30:R:120:ARG:NH2	2.28	0.67
27:o:38:SER:OG	27:o:40:ASN:OD1	2.11	0.67
27:o:73:LEU:HD12	27:o:74:PRO:HD2	1.76	0.67
33:v:184:HIS:HE1	33:v:186:CYS:CB	2.03	0.67
1:U:471:ASP:HB2	1:U:507:VAL:HG22	1.76	0.67
7:a:188:LEU:HD11	7:a:192:GLU:CB	2.24	0.67
10:d:158:ILE:HG23	10:d:163:TYR:CE2	2.30	0.67
11:f:594:LEU:O	11:f:635:LYS:NZ	2.25	0.67
19:G:53:GLN:HA	19:G:215:ILE:HA	1.77	0.67
31:s:171:ALA:HA	31:s:174:LEU:HD12	1.75	0.67
1:U:607:VAL:HG11	15:D:63:ASP:HB3	1.77	0.66
2:V:401:ASN:HD21	2:V:408:ARG:HH12	1.40	0.66
3:W:380:GLN:HG3	3:W:381:LEU:HD12	1.77	0.66
7:a:360:VAL:HG22	9:c:308:VAL:HG13	1.77	0.66
10:d:100:GLY:HA2	10:d:133:ILE:HD13	1.75	0.66
11:f:176:ALA:CB	11:f:838:ARG:NH1	2.58	0.66
12:A:274:PHE:HD2	12:A:319:MET:HE2	1.59	0.66
17:F:233:LYS:CE	17:F:354:PHE:CD2	2.77	0.66
20:H:93:LEU:HD11	20:H:113:ARG:HB3	1.78	0.66
25:M:240:LYS:HA	25:M:240:LYS:NZ	2.10	0.66
20:h:119:GLN:O	20:h:122:THR:OG1	2.10	0.66
26:n:138:TYR:O	26:n:142:THR:OG1	2.06	0.66
1:U:765:VAL:HG11	1:U:778:PHE:HD2	1.59	0.66
2:V:301:GLU:O	2:V:339:LEU:HD21	1.96	0.66
2:V:313:LEU:HD22	2:V:332:LEU:HD13	1.78	0.66
11:f:187:LEU:HD23	13:B:59:ARG:HB3	1.78	0.66
11:f:534:VAL:HG22	11:f:562:LEU:HA	1.77	0.66
11:f:826:GLN:HE22	11:f:828:ARG:HD3	1.60	0.66
11:f:853:VAL:O	33:v:210:ILE:HD11	1.96	0.66
13:B:198:LYS:HG3	13:B:202:GLU:HB3	1.77	0.66
15:D:92:PHE:HB2	15:D:130:VAL:HG11	1.77	0.66
15:D:145:PRO:HB2	15:D:256:GLU:HG3	1.75	0.66
16:E:200:SER:OG	16:E:233:ASP:O	2.11	0.66
17:F:294:LYS:HA	17:F:339:ASP:OD1	1.95	0.66
26:N:19:ARG:NH1	26:N:170:SER:O	2.28	0.66
27:O:59:ILE:HG13	27:O:83:LEU:HD21	1.77	0.66
31:S:169:ASP:OD2	31:S:173:ARG:NH2	2.28	0.66
20:h:93:LEU:HD11	20:h:113:ARG:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i:44:LEU:HD23	21:i:189:ALA:HB1	1.77	0.66
3:W:62:SER:HA	3:W:65:ARG:HG2	1.77	0.66
4:X:318:ILE:O	4:X:322:HIS:ND1	2.28	0.66
8:b:95:LEU:HD12	8:b:98:LYS:HE3	1.77	0.66
11:f:68:THR:OG1	11:f:97:LYS:NZ	2.26	0.66
11:f:773:LYS:HD3	11:f:776:LEU:HD13	1.76	0.66
20:H:105:ILE:CG2	20:H:110:LEU:HD11	2.26	0.66
27:o:59:ILE:HG13	27:o:83:LEU:HD21	1.77	0.66
28:p:122:CYS:HB3	28:p:132:VAL:HG12	1.77	0.66
29:q:13:VAL:HG11	29:q:105:ALA:HB1	1.76	0.66
1:U:895:PRO:HD2	1:U:902:PRO:HG3	1.76	0.66
3:W:115:ILE:CG1	3:W:119:PRO:HB2	2.24	0.66
7:a:7:PHE:HE2	7:a:60:TYR:HB2	1.59	0.66
9:c:233:ASP:OD2	9:c:235:SER:OG	2.07	0.66
11:f:679:LEU:HD12	11:f:686:LEU:HD13	1.76	0.66
15:D:391:ARG:NH2	15:D:398:ASP:OD2	2.27	0.66
30:R:179:VAL:HA	30:R:184:TRP:HA	1.78	0.66
19:g:27:TYR:HA	19:g:30:LYS:HZ1	1.59	0.66
2:V:301:GLU:OE2	2:V:305:ALA:N	2.27	0.66
3:W:172:GLU:HB2	3:W:182:ARG:NH2	2.11	0.66
3:W:213:PHE:HA	3:W:223:LYS:CE	2.25	0.66
4:X:417:LYS:HE2	6:Z:276:ILE:HG22	1.77	0.66
8:b:131:LEU:HD22	8:b:136:VAL:HB	1.76	0.66
8:b:186:SER:HB3	8:b:187:PRO:HD3	1.76	0.66
10:d:28:LEU:O	10:d:32:GLU:HG3	1.94	0.66
11:f:471:LEU:O	11:f:477:MET:HB3	1.95	0.66
13:B:199:GLU:HG2	13:B:203:LEU:HD22	1.78	0.66
32:T:41:ARG:NH2	32:T:54:SER:OG	2.28	0.66
20:h:74:LEU:HD12	20:h:136:ILE:HG12	1.75	0.66
26:n:19:ARG:NH1	26:n:170:SER:O	2.28	0.66
2:V:84:LYS:HG3	2:V:123:SER:H	1.61	0.66
11:f:118:ASN:O	11:f:122:ALA:CB	2.38	0.66
11:f:710:LEU:HD22	11:f:745:LEU:HD23	1.76	0.66
13:B:108:SER:HA	14:C:95:PHE:CD1	2.30	0.66
14:C:151:ILE:HG21	14:C:154:LEU:HD12	1.77	0.66
24:L:36:VAL:HG22	24:L:160:SER:HB2	1.77	0.66
1:U:87:LEU:O	1:U:91:ASN:ND2	2.29	0.66
1:U:633:CYS:HB3	1:U:634:PRO:HD3	1.76	0.66
1:U:873:PRO:O	1:U:876:GLN:NE2	2.28	0.66
5:Y:112:CYS:HA	5:Y:120:ALA:HB2	1.75	0.66
6:Z:170:VAL:HG12	9:c:155:VAL:HG22	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:248:PHE:O	7:a:252:LYS:HG2	1.95	0.66
8:b:54:LEU:CD1	8:b:84:ILE:HA	2.26	0.66
11:f:381:VAL:HA	11:f:755:ASP:O	1.96	0.66
11:f:566:HIS:HB3	11:f:569:LYS:HD2	1.77	0.66
17:F:196:GLN:CG	33:v:164:THR:CG2	2.52	0.66
19:G:43:ARG:HH21	19:G:164:LYS:HG2	1.60	0.66
27:o:19:ARG:NH1	27:o:169:SER:O	2.27	0.66
1:U:148:LYS:NZ	15:D:39:ASP:OD1	2.29	0.66
1:U:337:LEU:HD22	1:U:911:ILE:HD12	1.77	0.66
1:U:797:MET:HB2	1:U:880:ASN:HD22	1.61	0.66
1:U:813:TYR:HB3	1:U:814:PRO:HD2	1.78	0.66
2:V:302:TYR:HA	2:V:339:LEU:HD21	1.77	0.66
10:d:49:ILE:HG23	10:d:52:ARG:NH1	2.11	0.66
11:f:9:ALA:HB3	11:f:10:PRO:HD3	1.77	0.66
11:f:538:ILE:HG21	11:f:562:LEU:HD21	1.77	0.66
14:C:375:ARG:HE	14:C:377:HIS:HB2	1.60	0.66
15:D:352:MET:SD	16:E:164:ILE:HD11	2.36	0.66
31:s:169:ASP:OD2	31:s:173:ARG:NH2	2.28	0.66
2:V:108:LEU:HA	2:V:111:TYR:HD2	1.61	0.66
4:X:251:LEU:HA	4:X:254:MET:HG2	1.77	0.66
7:a:38:THR:HG21	7:a:71:VAL:HG11	1.78	0.66
7:a:50:PHE:CD2	7:a:52:GLN:HB3	2.30	0.66
11:f:788:MET:O	11:f:790:GLN:N	2.29	0.66
12:A:210:LYS:HB3	12:A:312:ARG:HH21	1.60	0.66
14:C:31:LEU:HB3	15:D:47:LEU:HB3	1.77	0.66
15:D:235:PHE:HD2	15:D:288:ILE:HD13	1.61	0.66
24:L:148:CYS:SG	24:L:150:SER:OG	2.50	0.66
28:P:58:THR:OG1	29:Q:121:LEU:O	2.11	0.66
28:P:143:ALA:HA	28:P:146:MET:HE3	1.78	0.66
19:g:53:GLN:HA	19:g:215:ILE:HA	1.77	0.66
30:r:104:TRP:NE1	30:r:181:GLU:HG3	2.10	0.66
2:V:80:LYS:HZ1	2:V:127:THR:HA	1.60	0.66
4:X:57:LEU:HD23	4:X:62:GLN:HE21	1.61	0.66
9:c:144:VAL:HB	9:c:158:ASP:HB3	1.78	0.66
10:d:126:ASP:HB3	10:d:133:ILE:HG21	1.77	0.66
10:d:190:LEU:HD23	10:d:192:THR:H	1.60	0.66
11:f:169:GLU:HA	11:f:172:GLU:HB2	1.78	0.66
11:f:300:ARG:HD2	11:f:493:ASN:H	1.61	0.66
16:E:116:ASP:HB3	16:E:217:GLU:HG2	1.77	0.66
16:E:127:PRO:HD2	17:F:321:GLN:HG2	1.78	0.66
16:E:364:GLN:HE22	16:E:368:MET:HE2	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G:103:TYR:HB2	26:N:61:TYR:CD1	2.30	0.66
29:Q:177:THR:HG22	29:Q:195:SER:HB2	1.78	0.66
30:r:83:LEU:HA	30:r:86:MET:HE3	1.78	0.66
2:V:401:ASN:O	2:V:405:THR:OG1	2.08	0.65
3:W:157:GLY:HA2	3:W:161:GLU:HB2	1.78	0.65
3:W:262:LYS:HG3	3:W:265:GLN:HE21	1.59	0.65
6:Z:22:HIS:HA	6:Z:25:ARG:CG	2.26	0.65
11:f:871:PRO:CG	11:f:883:ALA:HB3	2.26	0.65
14:C:25:LEU:HD12	15:D:40:LEU:HD11	1.79	0.65
15:D:345:PHE:HB3	15:D:360:LEU:HD21	1.78	0.65
20:H:35:SER:OG	20:H:47:ALA:O	2.08	0.65
27:O:84:LYS:HE2	27:O:119:THR:HG21	1.78	0.65
31:S:35:ILE:HD11	27:o:167:LEU:HD21	1.78	0.65
22:j:90:GLU:O	22:j:93:SER:OG	2.10	0.65
2:V:33:GLN:HA	2:V:89:LYS:HZ1	1.61	0.65
2:V:97:ALA:HB1	2:V:141:THR:O	1.96	0.65
2:V:105:SER:HA	2:V:108:LEU:HD12	1.78	0.65
7:a:149:THR:HG21	7:a:182:CYS:HB2	1.78	0.65
11:f:242:GLU:HB2	11:f:243:PRO:HD3	1.78	0.65
15:D:87:LEU:O	15:D:88:VAL:HG13	1.97	0.65
28:p:143:ALA:HA	28:p:146:MET:HE3	1.78	0.65
1:U:7:GLY:CA	10:d:79:LYS:HE3	2.26	0.65
4:X:137:TYR:CB	4:X:142:ARG:HD2	2.26	0.65
5:Y:47:ASP:OD1	5:Y:113:ARG:NH1	2.26	0.65
9:c:269:GLN:HA	9:c:272:ILE:HG22	1.78	0.65
11:f:415:GLY:CA	11:f:447:ALA:HB1	2.26	0.65
12:A:280:ILE:HG22	12:A:299:MET:HB2	1.76	0.65
14:C:389:LYS:HE2	14:C:393:LYS:HE3	1.77	0.65
16:E:291:ARG:NH2	16:E:294:ARG:NE	2.44	0.65
16:E:322:LYS:HD3	16:E:326:ILE:HG13	1.78	0.65
17:F:192:ASP:OD2	25:M:204:VAL:HG23	1.92	0.65
25:M:42:LYS:HB3	25:M:182:LYS:O	1.97	0.65
21:i:119:GLN:NE2	22:j:79:ASP:OD1	2.29	0.65
1:U:149:GLN:HG3	14:C:20:LEU:HD12	1.77	0.65
3:W:158:ASP:OD1	3:W:161:GLU:N	2.18	0.65
3:W:397:VAL:HG11	4:X:341:PRO:HB3	1.76	0.65
5:Y:289:ALA:O	5:Y:293:ARG:NH1	2.28	0.65
6:Z:20:VAL:HG13	9:c:212:LEU:HD23	1.79	0.65
7:a:155:PHE:O	7:a:159:SER:OG	2.11	0.65
9:c:37:ALA:O	9:c:41:MET:HG2	1.96	0.65
11:f:24:THR:HG23	11:f:31:LYS:HZ3	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:296:PHE:HA	11:f:807:ARG:HE	1.62	0.65
16:E:177:GLY:CA	17:F:344:ARG:HD2	2.26	0.65
17:F:191:LEU:O	17:F:195:ILE:CG1	2.43	0.65
17:F:196:GLN:OE1	33:v:164:THR:CG2	2.43	0.65
23:K:60:GLU:OE1	23:K:63:SER:N	2.29	0.65
20:h:105:ILE:CG2	20:h:110:LEU:HD11	2.26	0.65
23:k:54:ILE:HG23	23:k:59:MET:HE2	1.79	0.65
25:m:110:HIS:CE1	26:n:69:GLU:HG2	2.30	0.65
31:s:95:ILE:O	31:s:98:SER:OG	2.12	0.65
1:U:14:GLU:OE1	10:d:73:ARG:NH1	2.30	0.65
1:U:18:GLN:HE21	10:d:27:LYS:HE3	1.61	0.65
8:b:140:ILE:C	8:b:171:VAL:HG23	2.20	0.65
21:I:44:LEU:HD23	21:I:189:ALA:HB1	1.77	0.65
23:K:195:ILE:O	23:K:198:SER:OG	2.13	0.65
28:P:122:CYS:HB3	28:P:132:VAL:HG12	1.77	0.65
23:k:91:LYS:HE2	23:k:119:LEU:HD21	1.77	0.65
26:n:44:CYS:SG	26:n:99:ILE:HB	2.37	0.65
1:U:84:ALA:HB3	1:U:88:PHE:HB2	1.77	0.65
1:U:544:ILE:O	1:U:548:LEU:HD13	1.97	0.65
1:U:609:ASP:OD2	1:U:614:VAL:HG13	1.97	0.65
2:V:200:ARG:O	2:V:204:ASP:N	2.30	0.65
2:V:495:ARG:CB	14:C:44:ARG:HG3	2.20	0.65
3:W:169:LEU:HD13	3:W:189:GLN:HG3	1.78	0.65
4:X:212:MET:O	4:X:216:ILE:HG12	1.96	0.65
6:Z:109:ASN:O	6:Z:113:LYS:HG3	1.96	0.65
10:d:170:LEU:HA	10:d:173:THR:HG22	1.79	0.65
13:B:410:ARG:HE	14:C:167:LEU:HD13	1.61	0.65
14:C:336:MET:HE2	14:C:378:VAL:HG21	1.77	0.65
15:D:85:ILE:HG23	16:E:80:VAL:HG12	1.78	0.65
24:L:50:LYS:HB3	24:L:59:HIS:HB3	1.78	0.65
29:Q:164:LEU:HA	29:Q:167:LEU:CD1	2.26	0.65
19:g:121:ILE:HG22	19:g:125:TYR:HE2	1.62	0.65
1:U:212:ASP:HB3	1:U:216:VAL:HB	1.78	0.65
3:W:315:MET:HE3	3:W:362:ASN:CG	2.21	0.65
7:a:270:ARG:NH1	7:a:310:LEU:HA	2.10	0.65
8:b:107:MET:HE1	8:b:134:GLU:HB3	1.79	0.65
8:b:144:GLY:CA	8:b:173:VAL:HG21	2.25	0.65
11:f:565:ASN:HA	11:f:776:LEU:CD1	2.26	0.65
13:B:221:GLY:CA	13:B:347:ILE:HA	2.27	0.65
15:D:415:GLU:HB3	19:G:159:TYR:CZ	2.32	0.65
16:E:348:THR:HA	17:F:217:ILE:HD12	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:F:272:PHE:O	17:F:276:LYS:HG2	1.95	0.65
26:N:29:ARG:HH22	27:O:139:GLU:HG2	1.61	0.65
24:l:50:LYS:HB3	24:l:59:HIS:HB3	1.78	0.65
1:U:7:GLY:O	10:d:76:ALA:HA	1.95	0.65
1:U:481:LEU:HD23	1:U:497:LEU:HD11	1.79	0.65
1:U:593:SER:OG	1:U:595:ASN:ND2	2.30	0.65
1:U:654:MET:HE1	1:U:767:THR:HG22	1.79	0.65
6:Z:9:VAL:HA	6:Z:48:LEU:O	1.97	0.65
7:a:73:PRO:HG3	7:a:104:VAL:HG11	1.79	0.65
10:d:167:ILE:O	10:d:171:LEU:HG	1.96	0.65
11:f:226:TYR:HE2	13:B:63:LEU:HB3	1.62	0.65
11:f:281:ILE:HG22	11:f:282:PHE:H	1.61	0.65
14:C:215:SER:O	14:C:251:ILE:HG21	1.97	0.65
16:E:97:ARG:HE	16:E:111:LEU:HB2	1.61	0.65
16:E:107:ILE:O	16:E:108:MET:HE2	1.96	0.65
16:E:167:PRO:HB3	16:E:296:ASP:OD2	1.97	0.65
17:F:304:ARG:O	17:F:308:ARG:NH1	2.29	0.65
19:G:81:THR:OG1	19:G:137:CYS:HB3	1.97	0.65
22:J:12:PRO:HA	23:K:26:TYR:CE1	2.32	0.65
19:g:81:THR:OG1	19:g:137:CYS:HB3	1.97	0.65
25:m:67:PHE:HB2	25:m:75:MET:HB2	1.79	0.65
1:U:367:THR:HA	1:U:370:VAL:HG22	1.79	0.65
1:U:578:LEU:HA	1:U:581:SER:HB3	1.79	0.65
13:B:232:LYS:HG2	13:B:353:PHE:HE2	1.62	0.65
23:k:167:ALA:H	24:l:56:LEU:HD13	1.62	0.65
29:q:164:LEU:HA	29:q:167:LEU:CD1	2.26	0.65
10:d:44:THR:HA	10:d:47:GLN:HE22	1.61	0.65
11:f:111:GLU:HG3	11:f:137:ARG:NH1	2.12	0.65
11:f:505:MET:HE3	11:f:519:ALA:HB2	1.79	0.65
11:f:606:VAL:HG23	13:B:67:ARG:NH1	2.12	0.65
11:f:754:LYS:CB	33:v:213:ILE:CD1	2.72	0.65
13:B:88:LEU:HB3	13:B:90:GLU:OE1	1.97	0.65
13:B:193:GLN:HG3	13:B:351:ILE:CG2	2.27	0.65
13:B:403:GLY:HA2	14:C:178:LEU:HD13	1.78	0.65
15:D:132:LEU:HD21	15:D:139:LEU:HD23	1.78	0.65
15:D:349:THR:HB	15:D:354:LEU:HD12	1.77	0.65
19:G:121:ILE:HG22	19:G:125:TYR:HE2	1.62	0.65
26:N:37:ILE:HD11	26:N:43:CYS:SG	2.37	0.65
21:i:99:LEU:O	29:q:86:ARG:NH2	2.30	0.65
31:s:71:ARG:NE	31:s:91:MET:SD	2.64	0.65
33:v:166:PHE:O	33:v:173:LEU:HG	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:505:ASP:HB3	1:U:508:THR:HG22	1.79	0.64
3:W:62:SER:HB2	3:W:67:LEU:HD22	1.78	0.64
8:b:21:PHE:CD1	8:b:25:ARG:HG2	2.32	0.64
10:d:68:ILE:HB	10:d:69:PRO:HD3	1.79	0.64
12:A:407:LYS:HA	12:A:410:LEU:HD13	1.79	0.64
13:B:392:GLY:HA3	37:B:501:ADP:C5	2.32	0.64
14:C:56:VAL:HG22	15:D:72:PHE:HD1	1.59	0.64
15:D:234:GLU:HA	16:E:216:ARG:HH22	1.62	0.64
19:g:43:ARG:HH21	19:g:164:LYS:HG2	1.60	0.64
25:m:42:LYS:HB3	25:m:182:LYS:O	1.97	0.64
25:m:198:TYR:CZ	25:m:240:LYS:HA	2.32	0.64
30:r:179:VAL:HA	30:r:184:TRP:HA	1.78	0.64
1:U:31:VAL:CG2	1:U:66:LYS:HG3	2.27	0.64
1:U:236:LEU:HD22	1:U:244:MET:HG3	1.80	0.64
1:U:706:VAL:O	1:U:710:ARG:HG2	1.96	0.64
3:W:340:VAL:O	3:W:347:GLY:HA2	1.96	0.64
4:X:147:LEU:HD11	4:X:180:LEU:HD12	1.80	0.64
4:X:157:LEU:HD21	4:X:165:LEU:HD23	1.80	0.64
4:X:407:MET:HA	4:X:410:VAL:HG22	1.79	0.64
7:a:4:VAL:HB	7:a:5:PRO:HD3	1.78	0.64
10:d:36:LEU:HB3	10:d:37:PRO:HD3	1.79	0.64
11:f:288:VAL:HA	11:f:291:GLN:CG	2.25	0.64
11:f:520:LEU:O	11:f:524:MET:HG3	1.97	0.64
13:B:286:GLU:OE2	13:B:289:ALA:HB3	1.97	0.64
15:D:150:SER:OG	16:E:78:ARG:NH2	2.29	0.64
15:D:163:MET:HA	15:D:222:HIS:NE2	2.12	0.64
16:E:212:ALA:CB	16:E:259:GLU:HG3	2.27	0.64
24:L:189:LYS:HA	24:L:192:LEU:CG	2.28	0.64
28:P:94:LEU:HA	28:P:97:GLU:CD	2.22	0.64
25:m:23:VAL:HG12	25:m:27:MET:HE3	1.79	0.64
1:U:350:LEU:HA	1:U:385:PHE:CE1	2.33	0.64
3:W:90:LEU:CD2	3:W:96:GLN:HG3	2.27	0.64
11:f:72:ARG:NH1	11:f:82:ILE:O	2.30	0.64
11:f:469:TYR:CZ	11:f:504:VAL:HG22	2.33	0.64
15:D:286:GLN:HA	15:D:289:LEU:HD12	1.79	0.64
26:N:44:CYS:SG	26:N:99:ILE:HB	2.37	0.64
24:l:36:VAL:HG22	24:l:160:SER:HB2	1.77	0.64
26:n:37:ILE:HD11	26:n:43:CYS:SG	2.37	0.64
29:q:21:ALA:HB3	29:q:29:LYS:HB3	1.80	0.64
1:U:140:ARG:O	14:C:20:LEU:HD23	1.98	0.64
1:U:695:MET:O	1:U:737:LEU:HD11	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:419:LEU:HG	2:V:456:GLY:O	1.97	0.64
5:Y:117:LYS:HD3	5:Y:151:TYR:HD2	1.61	0.64
6:Z:95:TYR:HB3	6:Z:122:VAL:HB	1.78	0.64
6:Z:214:LYS:HB3	6:Z:220:LEU:HD13	1.78	0.64
11:f:530:CYS:SG	11:f:534:VAL:HG23	2.37	0.64
11:f:839:PRO:CB	12:A:361:SER:HA	2.27	0.64
12:A:169:LYS:HD3	12:A:233:THR:HG22	1.78	0.64
13:B:380:LEU:HB3	13:B:384:ILE:HD12	1.80	0.64
15:D:244:PRO:HD3	15:D:288:ILE:HG12	1.78	0.64
16:E:100:LEU:HD23	16:E:107:ILE:HA	1.78	0.64
21:I:160:LYS:N	22:J:54:GLN:OE1	2.18	0.64
26:N:127:ILE:HD11	26:N:136:TYR:HE1	1.62	0.64
29:q:177:THR:HG22	29:q:195:SER:HB2	1.78	0.64
1:U:23:ALA:HA	1:U:26:LYS:HZ1	1.63	0.64
2:V:263:LEU:HG	2:V:264:TYR:H	1.62	0.64
3:W:87:ILE:HB	3:W:91:SER:CB	2.28	0.64
3:W:118:LEU:HB3	3:W:119:PRO:HD3	1.79	0.64
5:Y:161:THR:HG21	5:Y:187:TYR:CG	2.32	0.64
7:a:332:HIS:O	7:a:333:MET:HE2	1.97	0.64
8:b:141:ILE:HA	8:b:171:VAL:HG21	1.78	0.64
11:f:233:LEU:HD12	11:f:264:GLU:HG3	1.78	0.64
11:f:606:VAL:HG11	13:B:70:ASP:HB2	1.80	0.64
11:f:827:PRO:HD2	11:f:849:ALA:HA	1.80	0.64
14:C:343:ASN:HB3	14:C:346:LYS:HD3	1.80	0.64
15:D:116:LEU:HB2	15:D:119:ILE:CD1	2.27	0.64
15:D:300:ASP:OD1	15:D:303:VAL:N	2.31	0.64
24:L:151:ALA:O	25:M:85:ARG:NH2	2.29	0.64
27:O:38:SER:OG	27:O:40:ASN:OD1	2.11	0.64
26:n:127:ILE:HD11	26:n:136:TYR:HE1	1.62	0.64
27:o:146:MET:HE1	27:o:154:LEU:HD22	1.78	0.64
31:s:4:PRO:O	32:t:100:ARG:NH2	2.28	0.64
1:U:682:TYR:CD1	9:c:182:GLY:O	2.50	0.64
2:V:404:LYS:HA	2:V:407:VAL:HG12	1.79	0.64
5:Y:164:ALA:HA	5:Y:168:ILE:HD12	1.80	0.64
5:Y:179:ARG:CG	5:Y:182:VAL:CG2	2.75	0.64
5:Y:237:ARG:CB	5:Y:241:ILE:HD12	2.26	0.64
6:Z:202:ASN:HD21	7:a:361:LYS:HD2	1.61	0.64
6:Z:215:VAL:HA	6:Z:220:LEU:HB2	1.79	0.64
11:f:17:PRO:HB3	11:f:89:MET:CE	2.27	0.64
11:f:126:ILE:HG13	11:f:173:LEU:HD11	1.80	0.64
11:f:283:THR:O	11:f:287:ASP:HB2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:H:105:ILE:HG23	20:H:110:LEU:HD11	1.80	0.64
27:O:146:MET:HE1	27:O:154:LEU:HD22	1.78	0.64
29:Q:23:SER:HB2	29:Q:28:MET:HE2	1.79	0.64
31:S:114:ASP:OD1	31:S:118:LYS:N	2.27	0.64
28:p:94:LEU:HA	28:p:97:GLU:CD	2.23	0.64
5:Y:179:ARG:CZ	5:Y:209:THR:HG22	2.28	0.64
9:c:76:PRO:HG2	9:c:87:VAL:HG22	1.80	0.64
11:f:122:ALA:HB2	11:f:129:LEU:HD12	1.78	0.64
11:f:482:ILE:HD13	11:f:518:THR:HA	1.79	0.64
11:f:559:PRO:HA	11:f:562:LEU:CG	2.28	0.64
11:f:766:GLN:OE1	11:f:807:ARG:NH1	2.30	0.64
13:B:114:GLU:HB2	13:B:122:ILE:HG22	1.79	0.64
13:B:264:PRO:HB3	13:B:311:GLU:CG	2.26	0.64
24:L:204:ASP:HB3	24:L:239:ARG:NH2	2.13	0.64
25:M:52:LEU:HD23	25:M:209:PHE:CB	2.28	0.64
25:M:52:LEU:CD2	25:M:209:PHE:HB3	2.27	0.64
26:N:144:ARG:H	26:N:147:MET:HE3	1.63	0.64
32:T:9:THR:O	32:T:54:SER:OG	2.11	0.64
19:g:43:ARG:NH2	19:g:164:LYS:HG2	2.13	0.64
21:i:198:ASN:HA	21:i:206:LEU:HD12	1.78	0.64
25:m:170:GLN:HA	25:m:173:LYS:HE2	1.79	0.64
26:n:127:ILE:HD11	26:n:136:TYR:CE1	2.32	0.64
27:o:84:LYS:HE2	27:o:119:THR:HG21	1.78	0.64
1:U:191:LYS:HD3	1:U:194:ARG:HE	1.63	0.64
4:X:46:LYS:O	4:X:50:ILE:HD12	1.98	0.64
5:Y:179:ARG:O	5:Y:182:VAL:N	2.30	0.64
8:b:4:GLU:HA	8:b:106:LYS:N	2.13	0.64
8:b:16:MET:HE3	8:b:25:ARG:HB3	1.79	0.64
9:c:275:VAL:HA	15:D:121:ARG:HB3	1.80	0.64
13:B:222:VAL:HG22	13:B:349:ARG:HB2	1.78	0.64
14:C:161:ILE:CG2	14:C:203:VAL:HG11	2.28	0.64
15:D:125:LYS:HB3	15:D:126:PRO:HD2	0.72	0.64
23:K:93:ARG:NH1	30:R:68:LEU:O	2.30	0.64
25:M:23:VAL:HG12	25:M:27:MET:HE3	1.79	0.64
19:g:130:GLU:HG3	20:h:6:TYR:CE1	2.32	0.64
24:l:176:MET:HA	24:l:179:PHE:CD2	2.33	0.64
25:m:213:LEU:HB2	25:m:227:VAL:HG21	1.80	0.64
26:n:21:THR:HG22	26:n:26:ILE:HD13	1.80	0.64
1:U:9:ILE:H	1:U:9:ILE:CD1	1.96	0.64
1:U:680:VAL:HB	1:U:683:VAL:HG12	1.79	0.64
1:U:744:VAL:HB	1:U:783:TYR:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:90:LEU:HD13	3:W:97:LEU:HD12	1.80	0.64
5:Y:50:MET:SD	5:Y:70:LEU:HB3	2.38	0.64
11:f:720:GLU:OE1	11:f:720:GLU:HA	1.98	0.64
11:f:815:HIS:HB2	11:f:880:ALA:O	1.98	0.64
17:F:217:ILE:O	17:F:218:GLN:HG3	1.98	0.64
21:I:198:ASN:HA	21:I:206:LEU:HD12	1.78	0.64
30:R:83:LEU:HA	30:R:86:MET:HE3	1.78	0.64
19:g:123:GLN:HG2	20:h:85:VAL:HG21	1.79	0.64
26:n:95:MET:HA	26:n:116:MET:HE3	1.79	0.64
30:r:179:VAL:HG22	30:r:184:TRP:HB3	1.80	0.64
31:s:114:ASP:OD1	31:s:118:LYS:N	2.27	0.64
3:W:40:LEU:HD23	3:W:43:VAL:HG23	1.79	0.64
3:W:200:ILE:HD12	3:W:203:GLN:HE21	1.63	0.64
4:X:200:ILE:HG22	4:X:203:PRO:HD3	1.80	0.64
5:Y:108:ALA:HA	5:Y:111:LEU:HD12	1.78	0.64
8:b:139:ASP:OD1	8:b:169:HIS:N	2.31	0.64
11:f:527:VAL:HG13	11:f:565:ASN:H	1.63	0.64
11:f:660:ILE:HD11	11:f:693:ALA:HB2	1.80	0.64
12:A:113:ILE:HD11	12:A:149:ILE:HD11	1.80	0.64
17:F:192:ASP:OD1	17:F:192:ASP:N	2.31	0.64
21:I:178:ASP:OD2	21:I:195:LYS:NZ	2.27	0.64
25:M:135:PHE:CE2	25:M:151:ILE:HD13	2.33	0.64
25:M:170:GLN:HA	25:M:173:LYS:HE2	1.79	0.64
19:g:54:LYS:HG2	19:g:214:GLU:O	1.98	0.64
21:i:32:GLY:H	21:i:50:ARG:HH21	1.46	0.64
22:j:71:MET:HE1	22:j:133:ILE:HG23	1.79	0.64
23:k:101:PHE:HA	30:r:57:ARG:HH21	1.63	0.64
23:k:123:PHE:HB2	23:k:134:SER:O	1.98	0.64
26:n:67:SER:HA	26:n:70:LEU:HD12	1.79	0.64
1:U:108:TYR:CZ	1:U:134:VAL:HG11	2.33	0.63
1:U:409:GLY:HA3	1:U:445:ALA:HB1	1.80	0.63
1:U:440:GLY:CA	1:U:473:VAL:HG13	2.28	0.63
8:b:187:PRO:HB2	8:b:191:GLY:HA2	1.80	0.63
10:d:52:ARG:CG	10:d:81:TYR:CD2	2.79	0.63
11:f:39:LYS:HB2	11:f:88:SER:OG	1.99	0.63
11:f:609:VAL:HG12	13:B:74:MET:CE	2.28	0.63
14:C:117:ARG:HG2	14:C:119:ASP:H	1.62	0.63
19:G:54:LYS:HG2	19:G:214:GLU:O	1.98	0.63
24:L:176:MET:HA	24:L:179:PHE:CD2	2.33	0.63
26:N:95:MET:HA	26:N:116:MET:HE3	1.79	0.63
26:N:127:ILE:HD11	26:N:136:TYR:CE1	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:O:59:ILE:HG13	27:O:83:LEU:CD2	2.29	0.63
32:T:43:MET:HE1	32:T:67:LEU:HD12	1.80	0.63
1:U:474:ARG:O	1:U:478:SER:HB3	1.98	0.63
4:X:299:LEU:HB2	4:X:334:ASN:ND2	2.13	0.63
5:Y:268:TYR:HB3	5:Y:323:PHE:HD1	1.63	0.63
5:Y:271:PHE:O	5:Y:275:LEU:CB	2.46	0.63
6:Z:191:ILE:HG22	7:a:375:LEU:HD13	1.78	0.63
8:b:33:VAL:HA	8:b:36:VAL:HG22	1.80	0.63
9:c:95:MET:HE3	9:c:99:LEU:HD11	1.79	0.63
10:d:105:PHE:HA	10:d:166:PHE:CZ	2.33	0.63
11:f:24:THR:HG23	11:f:31:LYS:NZ	2.13	0.63
11:f:852:VAL:HG22	11:f:853:VAL:H	1.63	0.63
14:C:209:CYS:O	14:C:245:ILE:N	2.31	0.63
16:E:226:GLN:CG	16:E:272:ARG:HD2	2.23	0.63
25:M:67:PHE:HB2	25:M:75:MET:HB2	1.78	0.63
26:N:67:SER:HA	26:N:70:LEU:HD12	1.79	0.63
20:h:210:VAL:O	20:h:221:LEU:HB2	1.97	0.63
21:i:89:GLU:O	21:i:93:ILE:HG12	1.99	0.63
24:l:189:LYS:HA	24:l:192:LEU:CG	2.28	0.63
25:m:135:PHE:CE2	25:m:151:ILE:HD13	2.32	0.63
1:U:567:ILE:HD11	1:U:585:THR:HG22	1.80	0.63
14:C:100:ASP:H	14:C:103:ILE:HD11	1.62	0.63
15:D:378:ILE:HG23	15:D:402:ALA:HB1	1.80	0.63
20:H:210:VAL:O	20:H:221:LEU:HB2	1.97	0.63
23:K:54:ILE:HG23	23:K:59:MET:HE2	1.79	0.63
32:t:107:TRP:HA	32:t:127:MET:SD	2.39	0.63
1:U:506:ALA:O	1:U:543:LYS:NZ	2.32	0.63
1:U:798:PRO:O	1:U:880:ASN:ND2	2.27	0.63
1:U:878:LEU:HB3	1:U:882:ALA:CB	2.28	0.63
2:V:27:PRO:O	2:V:30:PRO:HD2	1.98	0.63
3:W:152:ILE:HA	3:W:155:GLN:NE2	2.12	0.63
3:W:178:GLU:OE1	3:W:181:GLU:N	2.31	0.63
5:Y:88:LEU:CD2	5:Y:103:ALA:HB2	2.28	0.63
5:Y:186:LEU:HD12	5:Y:213:LEU:HG	1.81	0.63
6:Z:123:ILE:O	6:Z:135:THR:HA	1.98	0.63
6:Z:142:GLU:OE2	6:Z:153:LYS:NZ	2.32	0.63
6:Z:184:VAL:HG21	15:D:73:LEU:HD13	1.80	0.63
7:a:226:ARG:HB3	7:a:234:ILE:CD1	2.28	0.63
9:c:33:ILE:CG1	9:c:207:TYR:HA	2.28	0.63
9:c:84:VAL:O	9:c:84:VAL:HG13	1.99	0.63
11:f:49:ASP:HB3	12:A:400:ARG:HB3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:I:32:GLY:H	21:I:50:ARG:HH21	1.46	0.63
21:I:89:GLU:O	21:I:93:ILE:HG12	1.98	0.63
27:O:106:THR:OG1	27:O:109:HIS:NE2	2.28	0.63
32:T:11:VAL:N	32:T:139:THR:OG1	2.32	0.63
20:h:65:VAL:HA	20:h:75:VAL:HG12	1.80	0.63
29:q:44:LEU:HD12	29:q:102:LEU:HD12	1.80	0.63
1:U:261:LEU:HA	1:U:264:VAL:HG12	1.81	0.63
2:V:157:THR:HG22	2:V:160:LEU:HD12	1.81	0.63
6:Z:166:GLU:O	6:Z:170:VAL:HG23	1.98	0.63
9:c:112:TYR:HB3	9:c:143:VAL:HB	1.81	0.63
10:d:36:LEU:HB3	10:d:37:PRO:CD	2.28	0.63
11:f:292:LYS:HB3	11:f:297:MET:SD	2.38	0.63
11:f:438:ASP:CG	11:f:477:MET:HG2	2.24	0.63
11:f:833:PHE:HB2	11:f:840:LEU:HD11	1.81	0.63
15:D:214:MET:O	15:D:214:MET:HG3	1.96	0.63
15:D:384:MET:HE2	16:E:159:PHE:CD1	2.33	0.63
21:I:8:ARG:HE	22:J:5:ARG:HH21	1.45	0.63
22:J:71:MET:HE1	22:J:133:ILE:HG23	1.79	0.63
30:R:44:THR:OG1	30:R:100:MET:N	2.21	0.63
21:i:49:ARG:HH22	21:i:212:GLU:HG3	1.64	0.63
23:k:91:LYS:NZ	23:k:116:VAL:HA	2.14	0.63
29:q:23:SER:HB2	29:q:28:MET:HE2	1.80	0.63
29:q:115:LEU:O	29:q:126:LYS:HD2	1.98	0.63
4:X:296:ASN:O	4:X:337:ARG:NH1	2.32	0.63
5:Y:17:LEU:HD11	5:Y:212:GLU:HB3	1.80	0.63
6:Z:205:LEU:HD21	7:a:356:TRP:HZ3	1.62	0.63
8:b:122:LYS:HA	8:b:125:VAL:HG12	1.80	0.63
11:f:240:VAL:HB	11:f:241:PRO:HD3	1.80	0.63
11:f:348:ILE:CB	11:f:751:TYR:CD1	2.81	0.63
11:f:538:ILE:HD11	11:f:581:GLU:OE1	1.98	0.63
11:f:559:PRO:HB2	11:f:594:LEU:HG	1.81	0.63
12:A:246:VAL:HG22	12:A:295:VAL:HG21	1.79	0.63
14:C:60:ARG:HE	15:D:75:ALA:HB2	1.62	0.63
16:E:98:VAL:HG12	16:E:110:TYR:CB	2.28	0.63
16:E:264:MET:CE	16:E:294:ARG:HB2	2.29	0.63
22:j:96:LEU:HA	29:q:62:LYS:HE2	1.78	0.63
26:n:144:ARG:H	26:n:147:MET:HE3	1.63	0.63
1:U:725:MET:HE1	9:c:182:GLY:C	2.23	0.63
3:W:241:LEU:HA	3:W:244:CYS:SG	2.39	0.63
8:b:124:LEU:O	8:b:128:ALA:HB2	1.99	0.63
8:b:144:GLY:C	8:b:173:VAL:CG2	2.70	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:125:ILE:HD12	11:f:129:LEU:HB3	1.80	0.63
11:f:680:ARG:HG2	11:f:715:HIS:CE1	2.34	0.63
12:A:219:GLY:C	35:A:501:ATP:H5'1	2.24	0.63
19:G:27:TYR:HA	19:G:30:LYS:HZ1	1.64	0.63
20:H:65:VAL:HA	20:H:75:VAL:HG12	1.80	0.63
23:K:212:ALA:HA	23:K:234:LEU:CD2	2.28	0.63
21:i:42:GLY:HA2	21:i:216:LEU:O	1.98	0.63
21:i:49:ARG:HG3	21:i:209:GLU:O	1.99	0.63
32:t:11:VAL:N	32:t:139:THR:OG1	2.32	0.63
1:U:701:ILE:HG21	1:U:810:THR:HG22	1.80	0.63
2:V:157:THR:HA	2:V:160:LEU:HD12	1.80	0.63
5:Y:179:ARG:HG3	5:Y:182:VAL:HG21	1.81	0.63
7:a:57:ILE:HD12	7:a:60:TYR:HB3	1.80	0.63
10:d:45:LYS:O	10:d:49:ILE:HG12	1.98	0.63
10:d:215:TRP:CH2	10:d:224:SER:HB2	2.33	0.63
10:d:238:PRO:HB2	10:d:242:LEU:CD1	2.29	0.63
11:f:325:GLN:OE1	11:f:455:VAL:HA	1.98	0.63
12:A:215:PHE:CB	12:A:324:PRO:HG3	2.28	0.63
13:B:246:THR:HG21	13:B:277:HIS:HD2	1.62	0.63
14:C:259:LEU:HD12	14:C:262:GLY:HA3	1.81	0.63
15:D:414:HIS:HB2	15:D:417:TYR:CE2	2.33	0.63
17:F:196:GLN:OE1	33:v:164:THR:HG21	1.97	0.63
21:I:42:GLY:HA2	21:I:216:LEU:O	1.98	0.63
29:Q:108:ASP:N	29:Q:112:GLY:O	2.25	0.63
20:h:105:ILE:HG23	20:h:110:LEU:HD11	1.80	0.63
20:h:118:MET:CE	20:h:151:PRO:HA	2.28	0.63
24:l:182:CYS:HB2	24:l:186:GLU:CG	2.29	0.63
2:V:30:PRO:HA	2:V:33:GLN:HB2	1.81	0.63
3:W:231:ILE:O	3:W:235:GLN:CB	2.47	0.63
4:X:335:LEU:HA	4:X:338:VAL:HG22	1.81	0.63
6:Z:67:VAL:HG12	8:b:95:LEU:HD23	1.79	0.63
9:c:163:ILE:HG22	9:c:200:TYR:N	2.14	0.63
11:f:169:GLU:HA	11:f:172:GLU:CB	2.29	0.63
11:f:252:ALA:O	11:f:256:PHE:HB2	1.99	0.63
11:f:259:PHE:CE1	11:f:770:HIS:HB3	2.34	0.63
11:f:404:ASP:HA	11:f:407:MET:HE2	1.80	0.63
11:f:657:ILE:HG22	13:B:79:ILE:HD12	1.80	0.63
12:A:198:PRO:HB2	33:v:202:ASN:HD22	1.60	0.63
14:C:167:LEU:HB3	14:C:168:PRO:HD3	1.80	0.63
17:F:202:ILE:HD13	17:F:329:ILE:HD11	1.81	0.63
21:I:56:LEU:HB2	21:I:58:GLU:OE2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:M:175:GLU:HA	25:M:178:LYS:HG2	1.81	0.63
21:i:167:ASN:ND2	21:i:200:THR:O	2.32	0.63
21:i:178:ASP:OD2	21:i:195:LYS:NZ	2.27	0.63
23:k:16:SER:HB3	23:k:19:GLY:H	1.64	0.63
25:m:108:LEU:HD11	25:m:137:LEU:HB3	1.81	0.63
32:t:145:LEU:O	32:t:148:PRO:HD2	1.99	0.63
33:v:211:GLN:H	33:v:211:GLN:CD	2.02	0.63
2:V:160:LEU:O	2:V:164:GLU:HB2	1.99	0.62
3:W:216:GLU:HB3	3:W:223:LYS:HG2	1.81	0.62
3:W:287:VAL:HA	3:W:290:ILE:HG12	1.81	0.62
3:W:306:LEU:HG	3:W:309:PHE:CD2	2.34	0.62
6:Z:35:VAL:H	6:Z:97:THR:HG22	1.64	0.62
10:d:75:MET:HA	10:d:78:LEU:HD12	1.81	0.62
11:f:408:LEU:N	11:f:439:TYR:HB3	2.14	0.62
11:f:523:GLY:HA2	11:f:527:VAL:HB	1.80	0.62
12:A:222:LYS:CG	12:A:343:PHE:CD2	2.82	0.62
20:H:118:MET:CE	20:H:151:PRO:HA	2.28	0.62
23:K:123:PHE:HB2	23:K:134:SER:O	1.98	0.62
24:L:182:CYS:HB2	24:L:186:GLU:CG	2.29	0.62
25:M:51:LYS:O	25:M:210:GLU:N	2.32	0.62
27:o:37:ILE:HB	27:o:41:ILE:O	1.99	0.62
1:U:252:LEU:HD12	1:U:256:ALA:HB2	1.81	0.62
1:U:478:SER:HB2	1:U:511:ALA:O	1.99	0.62
2:V:139:MET:HA	2:V:143:ALA:CB	2.29	0.62
4:X:297:ARG:HD3	4:X:333:GLN:O	1.98	0.62
7:a:170:ALA:O	7:a:174:LYS:HB2	1.98	0.62
8:b:15:TYR:HB2	8:b:115:SER:OG	1.98	0.62
11:f:405:HIS:CB	11:f:796:LEU:HD22	2.26	0.62
13:B:156:VAL:HG23	13:B:158:ALA:H	1.64	0.62
13:B:183:THR:HG22	13:B:184:TYR:H	1.62	0.62
14:C:376:VAL:HG12	15:D:194:ILE:HD11	1.81	0.62
16:E:332:VAL:HA	16:E:335:SER:HB2	1.81	0.62
22:J:43:LEU:HD23	22:J:134:VAL:HG21	1.81	0.62
23:K:52:LYS:HD2	23:K:213:THR:O	1.99	0.62
24:L:49:LEU:HD12	24:L:209:ASN:O	1.99	0.62
29:Q:115:LEU:O	29:Q:126:LYS:HD2	1.98	0.62
30:R:179:VAL:HG22	30:R:184:TRP:HB3	1.80	0.62
19:g:89:SER:OG	25:m:120:HIS:ND1	2.27	0.62
21:i:56:LEU:HB2	21:i:58:GLU:OE2	1.99	0.62
23:k:212:ALA:HA	23:k:234:LEU:CD2	2.28	0.62
24:l:49:LEU:HD12	24:l:209:ASN:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:q:21:ALA:CB	29:q:29:LYS:HB3	2.29	0.62
1:U:381:THR:HG22	1:U:412:HIS:HA	1.81	0.62
1:U:482:GLY:HA2	1:U:519:VAL:HG13	1.79	0.62
3:W:1:MET:O	3:W:47:LEU:HD21	1.99	0.62
7:a:19:PRO:HA	7:a:23:HIS:HD2	1.64	0.62
7:a:374:ILE:HG13	10:d:255:MET:CE	2.29	0.62
11:f:330:PHE:CZ	11:f:334:ALA:HB3	2.34	0.62
12:A:49:GLU:CB	13:B:65:LEU:HD13	2.27	0.62
14:C:175:PHE:CD2	14:C:182:GLN:HG2	2.34	0.62
14:C:303:SER:O	14:C:307:ARG:HG2	2.00	0.62
15:D:243:GLY:HA3	15:D:288:ILE:CD1	2.29	0.62
16:E:146:ARG:NH1	16:E:150:GLU:OE1	2.33	0.62
20:H:118:MET:HE3	20:H:130:PHE:HB2	1.81	0.62
27:O:84:LYS:HB3	27:O:119:THR:HG21	1.81	0.62
32:T:145:LEU:O	32:T:148:PRO:HD2	1.99	0.62
1:U:9:ILE:O	1:U:11:LEU:N	2.30	0.62
1:U:563:ALA:O	1:U:567:ILE:HG12	1.98	0.62
2:V:280:ALA:CB	2:V:284:GLU:HB3	2.28	0.62
2:V:290:TYR:OH	2:V:294:ARG:NH2	2.33	0.62
5:Y:287:LEU:HB2	5:Y:290:PRO:HG2	1.81	0.62
7:a:193:GLN:O	7:a:225:LEU:HD13	1.99	0.62
11:f:16:SER:HB2	11:f:17:PRO:HD3	1.80	0.62
11:f:702:PRO:CB	11:f:787:LEU:CD1	2.71	0.62
12:A:222:LYS:HG2	12:A:343:PHE:CE2	2.34	0.62
12:A:244:GLU:HA	13:B:268:ARG:HH22	1.63	0.62
12:A:397:ILE:HG12	13:B:210:TYR:HB3	1.81	0.62
13:B:285:ASP:HA	13:B:330:ALA:HB3	1.81	0.62
20:H:4:ARG:HD3	25:M:127:ALA:HB2	1.81	0.62
25:M:186:CYS:O	25:M:190:VAL:HG23	2.00	0.62
21:i:218:ARG:NH2	21:i:221:GLY:HA2	2.14	0.62
25:m:102:PHE:HE1	26:n:82:LEU:HD21	1.62	0.62
25:m:175:GLU:HA	25:m:178:LYS:HG2	1.81	0.62
33:v:156:MET:HE3	33:v:184:HIS:CA	2.25	0.62
3:W:111:TYR:O	3:W:115:ILE:N	2.28	0.62
10:d:189:ILE:HB	10:d:193:GLU:HB2	1.81	0.62
11:f:585:GLU:O	11:f:589:SER:CB	2.47	0.62
13:B:106:PRO:CB	13:B:154:HIS:NE2	2.43	0.62
14:C:346:LYS:O	14:C:350:LEU:HG	2.00	0.62
19:G:43:ARG:NH2	19:G:164:LYS:HG2	2.13	0.62
25:M:191:LYS:CD	25:M:234:GLU:HB3	2.26	0.62
26:N:21:THR:HG22	26:N:26:ILE:HD13	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:T:15:LYS:HG2	32:T:20:VAL:HG22	1.80	0.62
32:T:107:TRP:HA	32:T:127:MET:SD	2.39	0.62
19:g:97:GLU:HA	19:g:100:ASN:HD22	1.65	0.62
30:r:7:LYS:HB3	30:r:12:VAL:HG22	1.81	0.62
1:U:146:LYS:HG2	14:C:21:ARG:HG2	1.81	0.62
1:U:374:SER:HA	1:U:411:ILE:CG1	2.29	0.62
2:V:366:ALA:HA	2:V:369:THR:OG1	2.00	0.62
3:W:409:LEU:HD21	4:X:344:ARG:HG2	1.81	0.62
4:X:90:ARG:HH21	4:X:125:LEU:HA	1.64	0.62
5:Y:231:LEU:HG	5:Y:236:LEU:HB2	1.81	0.62
7:a:347:LYS:HD2	7:a:350:LYS:HZ1	1.64	0.62
9:c:27:THR:HG21	9:c:65:TYR:CE1	2.34	0.62
14:C:235:PHE:CD2	14:C:279:GLN:HG2	2.35	0.62
14:C:273:MET:HA	14:C:276:LEU:HD12	1.82	0.62
15:D:159:LYS:HD2	15:D:221:HIS:HA	1.82	0.62
16:E:255:ARG:HA	16:E:258:MET:HE3	1.81	0.62
23:K:16:SER:HB3	23:K:19:GLY:H	1.64	0.62
24:L:148:CYS:SG	24:L:152:ASN:N	2.72	0.62
29:Q:138:LEU:HD22	29:Q:171:PHE:HE1	1.65	0.62
29:Q:142:ILE:HD11	30:r:137:GLY:CA	2.30	0.62
1:U:188:MET:HG2	1:U:194:ARG:CB	2.30	0.62
1:U:696:ILE:HD12	1:U:745:THR:OG1	2.00	0.62
1:U:732:LEU:O	1:U:736:ILE:HG12	1.98	0.62
2:V:54:LYS:NZ	2:V:60:ALA:HA	2.14	0.62
3:W:90:LEU:HD13	3:W:97:LEU:CG	2.29	0.62
3:W:148:THR:O	3:W:151:THR:OG1	2.12	0.62
3:W:359:VAL:O	3:W:363:ILE:HG12	1.98	0.62
4:X:190:LEU:O	4:X:194:ARG:HG2	1.99	0.62
5:Y:164:ALA:O	5:Y:168:ILE:HB	1.99	0.62
8:b:173:VAL:N	8:b:174:PRO:HD3	2.15	0.62
9:c:195:GLY:HA3	9:c:200:TYR:CE1	2.34	0.62
11:f:404:ASP:HB2	11:f:439:TYR:CE2	2.34	0.62
11:f:514:VAL:O	11:f:518:THR:OG1	2.12	0.62
11:f:534:VAL:O	11:f:538:ILE:HG12	1.99	0.62
14:C:74:GLY:O	14:C:113:ARG:HA	2.00	0.62
14:C:114:VAL:HG12	14:C:126:ILE:HG23	1.81	0.62
24:L:14:SER:OG	24:L:18:ARG:O	2.13	0.62
25:M:191:LYS:HZ2	25:M:234:GLU:CG	1.99	0.62
27:O:37:ILE:HB	27:O:41:ILE:O	1.99	0.62
29:Q:44:LEU:HD12	29:Q:102:LEU:HD12	1.80	0.62
30:R:7:LYS:HB3	30:R:12:VAL:HG22	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:373:ASN:HA	1:U:376:MET:HG2	1.80	0.62
1:U:887:ALA:O	1:U:890:LYS:NZ	2.25	0.62
1:U:900:TYR:HB3	1:U:914:LEU:HG	1.81	0.62
3:W:100:ALA:O	3:W:104:MET:HG2	1.99	0.62
4:X:400:ALA:O	4:X:403:THR:OG1	2.17	0.62
6:Z:254:ASN:O	6:Z:258:VAL:HG23	1.99	0.62
7:a:35:HIS:NE2	8:b:14:GLU:O	2.32	0.62
11:f:606:VAL:HG23	13:B:67:ARG:CZ	2.30	0.62
12:A:87:LEU:HA	12:A:90:GLU:HB2	1.81	0.62
14:C:155:ASP:HA	14:C:158:ILE:CD1	2.28	0.62
19:G:60:LEU:O	25:M:161:TRP:N	2.26	0.62
22:J:110:TYR:O	22:J:113:SER:OG	2.18	0.62
25:M:228:PRO:HB2	25:M:231:ILE:HB	1.82	0.62
24:l:14:SER:OG	24:l:18:ARG:O	2.13	0.62
3:W:111:TYR:O	3:W:115:ILE:HG22	2.00	0.62
11:f:757:ASN:CG	33:v:213:ILE:HA	2.24	0.62
11:f:858:LYS:HB3	11:f:859:PRO:HD3	1.81	0.62
12:A:314:ASN:CG	33:v:203:PRO:CG	2.72	0.62
12:A:397:ILE:HD13	13:B:211:TYR:CE1	2.35	0.62
13:B:151:LEU:HD12	13:B:161:GLY:HA3	1.80	0.62
13:B:365:PHE:CZ	13:B:395:ILE:HG12	2.34	0.62
15:D:83:GLN:HA	15:D:87:LEU:HD21	1.82	0.62
17:F:224:LEU:HB2	17:F:348:LEU:HD23	1.82	0.62
17:F:343:LEU:HD23	17:F:348:LEU:HD22	1.81	0.62
19:G:93:ARG:HH21	19:G:121:ILE:HD13	1.65	0.62
21:I:167:ASN:ND2	21:I:200:THR:O	2.32	0.62
21:I:218:ARG:NH2	21:I:221:GLY:HA2	2.14	0.62
24:L:174:ARG:HG3	24:L:175:HIS:ND1	2.15	0.62
29:Q:21:ALA:CB	29:Q:29:LYS:HB3	2.29	0.62
24:l:174:ARG:HG3	24:l:175:HIS:ND1	2.15	0.62
25:m:232:ARG:O	25:m:234:GLU:HG2	2.00	0.62
28:p:15:LYS:HE2	28:p:119:PRO:HB2	1.81	0.62
32:t:43:MET:HE1	32:t:67:LEU:HD12	1.80	0.62
1:U:23:ALA:O	1:U:27:LEU:HG	1.99	0.62
1:U:331:GLY:O	1:U:335:ILE:HG12	2.00	0.62
2:V:94:VAL:HG11	2:V:134:PHE:HB3	1.82	0.62
3:W:53:GLN:CA	3:W:103:LYS:HE3	2.28	0.62
4:X:297:ARG:CD	4:X:336:ILE:HD11	2.30	0.62
11:f:433:LEU:HD12	11:f:441:LYS:HG2	1.80	0.62
12:A:105:ASP:HB2	12:A:110:LYS:HB2	1.80	0.62
16:E:253:ILE:HG21	17:F:308:ARG:HH22	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:F:371:ARG:CG	17:F:371:ARG:HH11	2.13	0.62
29:Q:172:ILE:O	29:q:173:LEU:HA	1.99	0.62
19:g:54:LYS:NZ	19:g:213:SER:O	2.33	0.62
1:U:206:MET:HE3	1:U:216:VAL:HG21	1.81	0.61
1:U:368:ALA:HB1	1:U:731:ILE:HG21	1.82	0.61
1:U:465:LEU:HD22	1:U:481:LEU:HD22	1.81	0.61
1:U:594:GLY:H	1:U:628:ARG:HH11	1.47	0.61
1:U:645:ASN:HB3	1:U:648:VAL:H	1.64	0.61
2:V:476:PHE:O	2:V:480:ILE:HG12	2.00	0.61
4:X:313:LEU:HD11	4:X:323:LEU:HD11	1.82	0.61
6:Z:38:VAL:N	6:Z:54:PHE:O	2.28	0.61
8:b:121:GLU:HA	8:b:124:LEU:CD2	2.30	0.61
10:d:106:LEU:O	10:d:111:ARG:HB2	2.00	0.61
10:d:139:LEU:HD11	10:d:170:LEU:HD11	1.80	0.61
10:d:219:PRO:HG2	10:d:223:TYR:CZ	2.35	0.61
11:f:291:GLN:HE22	11:f:324:VAL:HG11	1.63	0.61
11:f:710:LEU:HD22	11:f:745:LEU:CD2	2.30	0.61
11:f:839:PRO:HG3	12:A:360:ARG:O	2.00	0.61
12:A:215:PHE:HB2	12:A:324:PRO:HG3	1.81	0.61
12:A:349:GLU:O	12:A:352:THR:OG1	2.14	0.61
15:D:211:GLY:HA2	15:D:214:MET:HB3	1.81	0.61
16:E:204:VAL:HB	17:F:261:ILE:CD1	2.30	0.61
21:I:49:ARG:HG3	21:I:209:GLU:O	1.99	0.61
21:I:49:ARG:HH22	21:I:212:GLU:HG3	1.64	0.61
23:K:15:PHE:HE2	24:L:127:PRO:HD2	1.65	0.61
28:P:143:ALA:HA	28:P:146:MET:CE	2.30	0.61
31:S:92:LEU:HD23	31:S:124:PHE:CZ	2.35	0.61
20:h:118:MET:HE3	20:h:130:PHE:HB2	1.80	0.61
23:k:52:LYS:HD2	23:k:213:THR:O	1.99	0.61
26:n:120:MET:H	32:t:61:GLN:HE22	1.45	0.61
1:U:149:GLN:HE22	14:C:24:TYR:HB2	1.65	0.61
2:V:89:LYS:HD2	2:V:93:PHE:HE2	1.64	0.61
2:V:341:GLU:HB3	2:V:343:PRO:HD3	1.80	0.61
4:X:163:LYS:HD2	4:X:199:ALA:HB3	1.80	0.61
10:d:141:GLN:HA	10:d:144:MET:HG2	1.81	0.61
11:f:19:ALA:O	11:f:23:GLY:N	2.33	0.61
11:f:41:LYS:O	11:f:45:LEU:CB	2.45	0.61
12:A:215:PHE:C	12:A:222:LYS:HE2	2.24	0.61
13:B:424:GLU:HA	13:B:427:LEU:HD12	1.81	0.61
14:C:154:LEU:HD11	14:C:194:THR:O	2.00	0.61
15:D:87:LEU:HB3	15:D:132:LEU:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:E:72:LYS:HB2	16:E:78:ARG:HG2	1.82	0.61
19:G:97:GLU:HA	19:G:100:ASN:HD22	1.65	0.61
28:P:15:LYS:HE2	28:P:119:PRO:HB2	1.81	0.61
29:Q:21:ALA:HB3	29:Q:29:LYS:HB3	1.80	0.61
21:i:119:GLN:HE22	22:j:79:ASP:HA	1.65	0.61
28:p:143:ALA:HA	28:p:146:MET:CE	2.30	0.61
29:q:138:LEU:HD22	29:q:171:PHE:HE1	1.65	0.61
2:V:227:VAL:O	2:V:231:LEU:CB	2.49	0.61
3:W:253:THR:HB	3:W:254:PRO:HD3	1.82	0.61
7:a:34:TRP:HB3	7:a:71:VAL:CG2	2.30	0.61
8:b:153:LEU:HB3	8:b:170:LEU:HD13	1.81	0.61
10:d:24:GLY:HA2	10:d:27:LYS:HG2	1.81	0.61
11:f:319:GLU:HA	11:f:323:ASN:CB	2.30	0.61
12:A:87:LEU:HA	12:A:90:GLU:CG	2.29	0.61
12:A:222:LYS:CA	12:A:343:PHE:HE2	2.09	0.61
13:B:60:LEU:HB3	13:B:64:LYS:NZ	2.15	0.61
14:C:369:TYR:HA	14:C:372:ARG:HG2	1.83	0.61
15:D:85:ILE:HB	15:D:86:PRO:CD	2.30	0.61
24:L:182:CYS:HB2	24:L:186:GLU:HG2	1.82	0.61
32:T:45:VAL:HG21	32:T:49:THR:HG23	1.83	0.61
23:k:60:GLU:OE1	23:k:63:SER:N	2.29	0.61
27:o:59:ILE:HG13	27:o:83:LEU:CD2	2.29	0.61
28:p:109:ILE:HB	28:p:122:CYS:SG	2.40	0.61
32:t:15:LYS:HG2	32:t:20:VAL:HG22	1.80	0.61
1:U:187:LEU:HD22	15:D:45:LYS:HG2	1.82	0.61
5:Y:294:TYR:O	5:Y:298:GLU:HB3	2.00	0.61
7:a:18:GLN:HB2	7:a:19:PRO:HD3	1.81	0.61
7:a:50:PHE:HD2	7:a:52:GLN:HB3	1.63	0.61
7:a:163:TYR:OH	7:a:169:HIS:HA	2.00	0.61
7:a:360:VAL:HG22	9:c:308:VAL:CG1	2.30	0.61
10:d:65:ARG:HG3	10:d:67:ASP:HB2	1.83	0.61
11:f:302:GLY:H	11:f:456:ARG:HH22	1.46	0.61
25:M:232:ARG:O	25:M:234:GLU:HG2	2.00	0.61
20:h:118:MET:O	20:h:122:THR:HG23	2.00	0.61
25:m:186:CYS:O	25:m:190:VAL:HG23	2.00	0.61
30:r:127:SER:HB3	30:r:136:TYR:CE2	2.36	0.61
1:U:10:SER:HB2	1:U:13:ASP:OD2	1.99	0.61
1:U:590:TYR:O	1:U:625:ILE:HG22	2.00	0.61
1:U:643:SER:O	1:U:649:ARG:NH1	2.33	0.61
2:V:355:ARG:HD2	18:e:8:VAL:HG11	1.82	0.61
2:V:490:SER:HA	6:Z:275:LEU:CD2	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:252:LYS:HA	4:X:287:LEU:HD11	1.83	0.61
7:a:170:ALA:O	7:a:174:LYS:CB	2.49	0.61
9:c:271:ALA:HA	9:c:274:ASN:ND2	2.15	0.61
11:f:527:VAL:CG1	11:f:565:ASN:HB2	2.31	0.61
11:f:705:ASN:O	11:f:709:THR:HG23	2.00	0.61
11:f:739:ALA:CB	11:f:743:ALA:HB2	2.30	0.61
13:B:407:LEU:HD22	14:C:174:LEU:HD22	1.83	0.61
15:D:88:VAL:HG23	15:D:132:LEU:HB2	1.83	0.61
16:E:42:LYS:HA	16:E:45:ASN:HD22	1.64	0.61
20:H:45:VAL:HG22	20:H:212:ILE:HG22	1.81	0.61
26:N:120:MET:H	32:T:61:GLN:HE22	1.48	0.61
20:h:45:VAL:HG22	20:h:212:ILE:HG22	1.81	0.61
30:r:3:THR:HG22	30:r:16:ALA:HB1	1.83	0.61
30:r:7:LYS:CB	30:r:12:VAL:HG22	2.30	0.61
1:U:144:ASP:HB2	14:C:20:LEU:CD2	2.30	0.61
1:U:772:TRP:HD1	1:U:775:LEU:HB2	1.65	0.61
2:V:33:GLN:NE2	2:V:84:LYS:O	2.33	0.61
2:V:54:LYS:HZ3	2:V:60:ALA:HA	1.64	0.61
2:V:213:TYR:O	2:V:217:VAL:HG23	2.01	0.61
2:V:295:ILE:O	2:V:298:ILE:HG22	2.00	0.61
2:V:433:ASP:HA	2:V:436:PHE:HD2	1.65	0.61
3:W:29:PRO:HA	3:W:32:ALA:HB3	1.82	0.61
3:W:135:LYS:HD3	3:W:144:ARG:NE	2.11	0.61
3:W:268:LYS:O	3:W:272:LEU:HG	2.01	0.61
5:Y:189:VAL:HG23	5:Y:192:ARG:N	2.07	0.61
5:Y:204:THR:HG21	5:Y:223:THR:HG21	1.80	0.61
6:Z:9:VAL:HG12	6:Z:48:LEU:HB3	1.82	0.61
6:Z:42:SER:HB3	6:Z:49:ASP:HB3	1.82	0.61
6:Z:57:PRO:HG2	6:Z:71:ASP:HB2	1.82	0.61
9:c:121:TRP:CZ3	9:c:123:SER:HA	2.35	0.61
11:f:655:LEU:HD11	11:f:674:THR:HG21	1.81	0.61
13:B:140:ASP:HB3	13:B:143:LEU:HG	1.83	0.61
13:B:223:ILE:CG1	13:B:347:ILE:HD13	2.30	0.61
19:G:61:LEU:HD23	19:G:62:ASP:O	2.01	0.61
24:L:132:LEU:HB2	24:L:147:THR:HG21	1.83	0.61
25:M:235:ALA:O	25:M:239:ALA:N	2.34	0.61
19:g:61:LEU:HD23	19:g:62:ASP:O	2.01	0.61
20:h:70:LYS:O	20:h:218:PHE:N	2.31	0.61
24:l:148:CYS:SG	24:l:152:ASN:N	2.72	0.61
1:U:766:PHE:O	1:U:776:SER:OG	2.10	0.61
1:U:772:TRP:NE1	1:U:774:PRO:HG2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:64:GLN:HE21	5:Y:389:MET:HA	1.66	0.61
3:W:192:LEU:O	3:W:196:VAL:HG23	2.00	0.61
4:X:52:GLU:O	4:X:55:SER:OG	2.10	0.61
5:Y:344:HIS:CE1	5:Y:358:ARG:HA	2.36	0.61
6:Z:21:ASP:O	6:Z:25:ARG:HG2	2.01	0.61
6:Z:143:GLU:N	6:Z:152:SER:O	2.26	0.61
7:a:101:ARG:HG3	7:a:111:VAL:HG23	1.81	0.61
9:c:226:MET:O	9:c:230:THR:HG23	2.00	0.61
11:f:309:GLU:HB2	11:f:314:TYR:CD2	2.36	0.61
11:f:809:ILE:CG2	11:f:810:ILE:HG23	2.31	0.61
13:B:232:LYS:HG2	13:B:353:PHE:CE2	2.36	0.61
13:B:271:PHE:HD2	13:B:315:GLN:HG3	1.64	0.61
20:H:70:LYS:O	20:H:218:PHE:N	2.31	0.61
21:I:180:LYS:HE3	21:I:184:MET:HA	1.83	0.61
22:J:104:VAL:HG12	22:J:137:ASP:OD2	2.01	0.61
25:M:108:LEU:HD11	25:M:137:LEU:HB3	1.81	0.61
19:g:93:ARG:HH21	19:g:121:ILE:HD13	1.65	0.61
22:j:43:LEU:HD23	22:j:134:VAL:HG21	1.81	0.61
25:m:188:ASP:O	25:m:192:GLU:HG2	2.00	0.61
31:s:27:THR:OG1	31:s:192:ALA:HB3	2.00	0.61
1:U:7:GLY:C	10:d:76:ALA:HA	2.25	0.61
1:U:245:ALA:HB1	1:U:324:LYS:HZ3	1.65	0.61
3:W:177:MET:HE1	3:W:208:LYS:HE2	1.80	0.61
5:Y:112:CYS:SG	5:Y:147:ILE:HD12	2.41	0.61
8:b:8:VAL:HA	8:b:110:ILE:O	2.00	0.61
8:b:121:GLU:HA	8:b:124:LEU:HG	1.83	0.61
10:d:107:LEU:HD12	10:d:115:PHE:CE1	2.35	0.61
11:f:46:SER:HB2	11:f:56:LEU:HB2	1.81	0.61
11:f:827:PRO:HG2	11:f:848:GLN:CB	2.29	0.61
12:A:125:LEU:HA	12:A:149:ILE:HB	1.83	0.61
14:C:376:VAL:HG11	15:D:193:GLN:OE1	2.00	0.61
16:E:115:VAL:CG2	17:F:94:ILE:HG22	2.31	0.61
16:E:237:ALA:HB1	17:F:308:ARG:HG3	1.82	0.61
19:G:54:LYS:NZ	19:G:213:SER:O	2.33	0.61
19:G:58:ASP:HB3	19:G:61:LEU:HB2	1.83	0.61
20:H:118:MET:O	20:H:122:THR:HG23	2.00	0.61
22:J:145:TYR:CE1	22:J:155:ALA:HB2	2.36	0.61
27:O:179:SER:OG	27:O:182:LYS:N	2.33	0.61
28:P:109:ILE:HB	28:P:122:CYS:SG	2.40	0.61
20:h:93:LEU:HD21	20:h:113:ARG:CD	2.31	0.61
21:i:160:LYS:N	22:j:54:GLN:OE1	2.23	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:m:228:PRO:HB2	25:m:231:ILE:HB	1.82	0.61
29:q:29:LYS:HE3	29:q:32:HIS:HA	1.82	0.61
1:U:243:LEU:HA	1:U:913:ILE:HG21	1.83	0.61
1:U:529:ILE:O	1:U:533:VAL:HG12	2.00	0.61
1:U:692:ALA:HB2	1:U:733:ALA:HB1	1.83	0.61
2:V:64:GLN:NE2	5:Y:389:MET:HA	2.15	0.61
3:W:131:VAL:HG13	3:W:144:ARG:CD	2.30	0.61
3:W:148:THR:HA	3:W:151:THR:HG23	1.83	0.61
6:Z:58:PHE:CE1	6:Z:68:TRP:HB2	2.35	0.61
6:Z:74:TYR:HE1	9:c:98:MET:HB3	1.66	0.61
6:Z:170:VAL:HG13	9:c:151:VAL:O	2.00	0.61
6:Z:269:VAL:HG12	6:Z:273:HIS:CE1	2.35	0.61
7:a:54:ASP:OD2	7:a:86:GLN:HB3	2.01	0.61
7:a:172:TYR:O	7:a:176:ALA:HB2	2.01	0.61
9:c:186:LYS:HB3	9:c:186:LYS:NZ	2.16	0.61
11:f:94:LYS:HB2	11:f:109:ILE:HD13	1.82	0.61
14:C:117:ARG:HD3	14:C:120:SER:H	1.65	0.61
15:D:386:ALA:HB2	15:D:391:ARG:HH21	1.65	0.61
17:F:193:LYS:NZ	25:M:204:VAL:CG2	2.53	0.61
30:R:7:LYS:CB	30:R:12:VAL:HG22	2.30	0.61
22:j:104:VAL:HG12	22:j:137:ASP:OD2	2.01	0.61
1:U:376:MET:HA	1:U:739:ALA:CA	2.29	0.61
2:V:255:LEU:HG	2:V:269:LYS:HE2	1.82	0.61
3:W:136:ILE:HG21	3:W:140:ILE:CD1	2.31	0.61
4:X:402:GLU:HB2	9:c:249:LEU:HD11	1.83	0.61
6:Z:182:THR:HG22	15:D:70:LYS:HE2	1.82	0.61
7:a:210:VAL:O	7:a:271:LYS:NZ	2.29	0.61
7:a:252:LYS:HA	7:a:255:TRP:CD1	2.35	0.61
9:c:39:LEU:HD23	9:c:42:LEU:HD21	1.82	0.61
9:c:76:PRO:HG2	9:c:87:VAL:CG2	2.31	0.61
11:f:110:TYR:HD2	11:f:133:MET:HG3	1.66	0.61
11:f:132:THR:HG21	12:A:36:TYR:CD2	2.36	0.61
11:f:182:GLU:HB3	11:f:183:PRO:HD3	1.82	0.61
11:f:260:SER:O	11:f:268:LEU:HD23	2.00	0.61
11:f:316:ASP:O	11:f:320:ILE:HG12	2.01	0.61
11:f:378:ASN:ND2	11:f:392:THR:HG22	2.16	0.61
13:B:105:THR:O	13:B:107:MET:CG	2.42	0.61
19:G:12:HIS:NE2	25:M:6:GLY:O	2.31	0.61
19:G:79:VAL:HG12	19:G:139:ILE:HB	1.82	0.61
20:H:210:VAL:HG12	20:H:221:LEU:HD12	1.83	0.61
21:I:45:LEU:HD11	21:I:137:ILE:HG12	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:K:52:LYS:NZ	23:K:215:ILE:O	2.34	0.61
23:K:100:TRP:O	30:R:57:ARG:NH2	2.33	0.61
25:M:51:LYS:O	25:M:209:PHE:HB2	2.00	0.61
25:M:150:MET:SD	25:M:165:ILE:HD11	2.41	0.61
25:M:197:ILE:O	25:M:197:ILE:HG22	2.00	0.61
25:M:204:VAL:HG23	25:M:204:VAL:O	2.00	0.61
31:S:27:THR:OG1	31:S:192:ALA:HB3	2.00	0.61
31:S:30:SER:HB3	31:S:35:ILE:HD13	1.83	0.61
23:k:68:VAL:O	23:k:76:CYS:HB3	2.01	0.61
23:k:193:GLU:HA	23:k:196:LYS:HZ3	1.66	0.61
25:m:150:MET:SD	25:m:165:ILE:HD11	2.41	0.61
27:o:106:THR:OG1	27:o:109:HIS:NE2	2.28	0.61
29:q:2:GLU:OE2	29:q:47:VAL:HG13	2.01	0.61
32:t:86:ARG:HG2	32:t:121:PHE:CE1	2.36	0.61
1:U:23:ALA:HA	1:U:26:LYS:NZ	2.16	0.60
3:W:201:ARG:O	3:W:205:ILE:HG12	2.01	0.60
5:Y:84:LEU:HD12	5:Y:107:LYS:NZ	2.15	0.60
5:Y:185:GLY:H	5:Y:213:LEU:HD11	1.65	0.60
5:Y:223:THR:O	5:Y:227:SER:HB3	2.00	0.60
5:Y:287:LEU:HD12	5:Y:287:LEU:O	2.01	0.60
6:Z:125:ASP:O	6:Z:128:PRO:HD3	2.01	0.60
7:a:26:GLU:HA	7:a:29:TYR:CE1	2.36	0.60
7:a:37:LEU:O	7:a:41:VAL:HG23	2.01	0.60
7:a:61:GLU:HG3	7:a:79:ILE:HD13	1.83	0.60
7:a:97:LEU:HD11	7:a:117:ALA:CB	2.29	0.60
10:d:217:LEU:HB2	10:d:222:TYR:CD1	2.36	0.60
11:f:447:ALA:HA	11:f:450:ILE:HD12	1.82	0.60
11:f:530:CYS:SG	11:f:534:VAL:CG2	2.88	0.60
11:f:680:ARG:HG2	11:f:715:HIS:HE1	1.65	0.60
12:A:274:PHE:HB2	12:A:319:MET:HG2	1.83	0.60
15:D:64:GLU:O	15:D:68:LEU:HG	2.01	0.60
15:D:259:PRO:HA	15:D:304:ASN:O	2.01	0.60
17:F:199:VAL:HG13	17:F:203:VAL:HB	1.82	0.60
19:G:62:ASP:HA	25:M:161:TRP:CZ3	2.36	0.60
23:K:91:LYS:NZ	23:K:116:VAL:HA	2.14	0.60
27:O:112:SER:OG	27:O:120:ASP:HB2	2.01	0.60
23:k:52:LYS:NZ	23:k:215:ILE:O	2.34	0.60
27:o:84:LYS:HB3	27:o:119:THR:HG21	1.81	0.60
1:U:376:MET:CA	1:U:739:ALA:HA	2.29	0.60
1:U:495:ASP:HA	1:U:498:LYS:NZ	2.16	0.60
2:V:228:ARG:NH2	2:V:257:ASN:HB3	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:b:14:GLU:HB2	8:b:17:ARG:HH21	1.66	0.60
9:c:28:ALA:HA	9:c:180:ASN:ND2	2.15	0.60
9:c:189:ILE:HA	9:c:192:LEU:CD2	2.31	0.60
12:A:249:TYR:OH	15:D:279:THR:HG22	2.00	0.60
19:G:122:SER:HA	19:G:125:TYR:HD2	1.66	0.60
22:J:96:LEU:CA	29:Q:62:LYS:HE2	2.31	0.60
23:K:68:VAL:O	23:K:76:CYS:HB3	2.01	0.60
30:R:127:SER:HB3	30:R:136:TYR:CE2	2.36	0.60
30:R:140:ASP:OD2	29:q:170:ARG:NE	2.29	0.60
23:k:193:GLU:HA	23:k:196:LYS:NZ	2.16	0.60
24:l:182:CYS:HB2	24:l:186:GLU:HG2	1.82	0.60
25:m:15:SER:OG	25:m:17:ASP:OD1	2.07	0.60
1:U:65:SER:OG	1:U:81:ALA:N	2.35	0.60
1:U:789:ILE:HB	1:U:911:ILE:HA	1.83	0.60
2:V:231:LEU:HD21	2:V:254:LEU:HB2	1.82	0.60
5:Y:51:ALA:HB3	5:Y:52:PRO:HD3	1.83	0.60
5:Y:181:LYS:HG2	5:Y:213:LEU:HD12	1.81	0.60
7:a:45:VAL:HG21	7:a:79:ILE:CG1	2.29	0.60
10:d:52:ARG:HG2	10:d:81:TYR:CD2	2.31	0.60
14:C:187:LEU:HD12	14:C:293:MET:O	2.00	0.60
14:C:297:ARG:NH2	14:C:299:ASP:HB2	2.15	0.60
18:e:45:ASP:O	18:e:49:GLU:HG2	2.01	0.60
25:M:191:LYS:CE	25:M:234:GLU:CB	2.79	0.60
27:O:3:ILE:HG22	27:O:16:ALA:CB	2.31	0.60
30:R:3:THR:HG22	30:R:16:ALA:HB1	1.83	0.60
25:m:214:SER:OG	25:m:224:HIS:NE2	2.21	0.60
27:o:67:SER:HB3	27:o:74:PRO:HG3	1.82	0.60
31:s:30:SER:HB3	31:s:35:ILE:HD13	1.83	0.60
1:U:171:ASN:HD21	1:U:176:MET:HE1	1.64	0.60
2:V:325:LYS:HA	2:V:328:VAL:HG12	1.83	0.60
2:V:496:PHE:HB2	2:V:497:PRO:HD3	1.83	0.60
3:W:231:ILE:HG21	3:W:247:TYR:CE1	2.36	0.60
4:X:380:GLN:HB2	5:Y:314:LEU:HA	1.83	0.60
4:X:404:ILE:HG21	5:Y:372:LYS:HB3	1.83	0.60
11:f:202:HIS:ND1	11:f:242:GLU:OE2	2.35	0.60
11:f:493:ASN:OD1	11:f:526:ALA:HB2	2.02	0.60
12:A:212:VAL:HB	12:A:318:LEU:HD23	1.82	0.60
12:A:355:PHE:HD1	12:A:385:ILE:HG23	1.66	0.60
13:B:239:VAL:O	13:B:243:THR:HB	2.01	0.60
14:C:161:ILE:HD11	14:C:188:LEU:HD11	1.82	0.60
15:D:280:GLY:HA2	15:D:283:ARG:HH21	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:E:147:GLU:O	16:E:152:PRO:HD3	2.01	0.60
23:K:219:THR:O	23:K:227:HIS:HA	2.01	0.60
24:L:230:SER:HB2	24:L:231:PRO:HD3	1.84	0.60
27:O:67:SER:HB3	27:O:74:PRO:HG3	1.82	0.60
29:Q:163:CYS:O	29:Q:167:LEU:HG	2.01	0.60
31:S:168:LEU:O	31:S:172:MET:HG2	2.01	0.60
19:g:58:ASP:HB3	19:g:61:LEU:HB2	1.83	0.60
21:i:180:LYS:HE3	21:i:184:MET:HA	1.83	0.60
22:j:145:TYR:CE1	22:j:155:ALA:HB2	2.36	0.60
27:o:3:ILE:HG22	27:o:16:ALA:CB	2.31	0.60
27:o:112:SER:OG	27:o:120:ASP:HB2	2.01	0.60
29:q:29:LYS:NZ	29:q:31:ASP:OD1	2.28	0.60
31:s:92:LEU:HD23	31:s:124:PHE:CZ	2.35	0.60
32:t:45:VAL:HG21	32:t:49:THR:HG23	1.82	0.60
32:t:174:ARG:HG2	32:t:178:TYR:CE2	2.36	0.60
1:U:269:ARG:HD3	1:U:325:MET:HE1	1.83	0.60
2:V:81:GLN:CB	2:V:85:ALA:HB3	2.30	0.60
2:V:471:GLU:HB3	2:V:472:PRO:HD3	1.81	0.60
3:W:63:THR:CG2	3:W:71:VAL:HG11	2.30	0.60
3:W:384:LEU:HD13	3:W:388:GLU:HB3	1.83	0.60
5:Y:262:SER:HA	5:Y:267:ARG:CG	2.31	0.60
6:Z:74:TYR:CE1	9:c:98:MET:HB3	2.36	0.60
9:c:299:CYS:O	9:c:303:MET:HG2	2.01	0.60
11:f:438:ASP:OD2	11:f:475:ASN:HB3	2.01	0.60
15:D:375:ILE:HA	15:D:378:ILE:HD12	1.84	0.60
22:J:96:LEU:O	30:R:81:LYS:NZ	2.34	0.60
23:K:67:ILE:HD13	23:K:216:GLU:HG3	1.83	0.60
29:Q:29:LYS:HE3	29:Q:32:HIS:HA	1.82	0.60
32:T:86:ARG:HG2	32:T:121:PHE:CE1	2.36	0.60
20:h:83:TYR:O	20:h:87:VAL:HG23	2.02	0.60
21:i:45:LEU:HD11	21:i:137:ILE:HG12	1.83	0.60
24:l:132:LEU:HB2	24:l:147:THR:HG21	1.83	0.60
25:m:9:LEU:O	25:m:22:GLN:NE2	2.34	0.60
2:V:269:LYS:HD2	2:V:295:ILE:HD12	1.84	0.60
2:V:354:LYS:HA	2:V:357:LEU:CD2	2.31	0.60
3:W:247:TYR:HA	3:W:250:ILE:CG1	2.32	0.60
3:W:296:LEU:HD21	3:W:302:TYR:CE2	2.37	0.60
6:Z:246:VAL:HG11	10:d:235:THR:HG21	1.83	0.60
7:a:212:ASN:OD1	7:a:213:PHE:N	2.35	0.60
11:f:498:LEU:HD12	11:f:525:ILE:HB	1.84	0.60
16:E:97:ARG:NE	16:E:111:LEU:HB2	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:F:439:ALA:HB2	24:L:33:SER:H	1.66	0.60
23:K:115:ALA:HA	23:K:118:ASN:ND2	2.17	0.60
25:M:9:LEU:O	25:M:22:GLN:NE2	2.34	0.60
26:N:26:ILE:HD11	32:t:181:ALA:HA	1.84	0.60
28:p:44:PRO:HA	28:p:50:TYR:CD1	2.37	0.60
33:v:166:PHE:CD2	33:v:179:ARG:HB2	2.36	0.60
1:U:220:LEU:HD11	1:U:229:VAL:HB	1.82	0.60
1:U:580:ARG:CG	1:U:614:VAL:N	2.64	0.60
1:U:660:CYS:HB3	1:U:665:ASN:HD22	1.67	0.60
1:U:745:THR:N	1:U:784:THR:O	2.33	0.60
2:V:345:ARG:HH12	2:V:357:LEU:HB3	1.65	0.60
2:V:414:TYR:CD1	5:Y:347:ILE:HG23	2.37	0.60
3:W:336:PRO:O	3:W:340:VAL:HG23	2.02	0.60
3:W:437:SER:OG	9:c:225:TRP:NE1	2.34	0.60
4:X:177:TYR:HB3	4:X:182:ASN:HB3	1.83	0.60
5:Y:388:ASN:HB2	6:Z:279:LYS:HE3	1.84	0.60
7:a:18:GLN:HA	7:a:22:TRP:CD1	2.37	0.60
7:a:70:ARG:CG	8:b:17:ARG:HB3	2.31	0.60
7:a:84:VAL:HG21	7:a:121:LEU:HD21	1.81	0.60
8:b:51:LEU:HD23	8:b:71:ILE:HG23	1.82	0.60
9:c:27:THR:HA	9:c:176:GLN:HE22	1.66	0.60
9:c:31:VAL:HB	9:c:205:ILE:HA	1.84	0.60
11:f:139:CYS:SG	12:A:40:THR:HB	2.41	0.60
11:f:447:ALA:O	11:f:451:VAL:HG23	2.00	0.60
11:f:747:GLN:HB3	11:f:751:TYR:CE2	2.37	0.60
12:A:101:ILE:HD11	12:A:140:VAL:HG11	1.83	0.60
12:A:355:PHE:O	12:A:359:ALA:CB	2.46	0.60
14:C:56:VAL:HG22	15:D:72:PHE:CD1	2.37	0.60
20:H:150:ASP:OD1	20:H:154:ALA:N	2.35	0.60
24:l:15:PRO:O	25:m:28:LYS:NZ	2.26	0.60
26:n:18:SER:HB2	26:n:30:VAL:HA	1.84	0.60
1:U:500:ASN:HD21	1:U:511:ALA:HB1	1.65	0.60
1:U:583:MET:HG3	1:U:618:ALA:HA	1.84	0.60
1:U:748:LEU:HD23	1:U:760:VAL:HG22	1.84	0.60
2:V:345:ARG:HH11	2:V:353:LEU:HD21	1.66	0.60
3:W:38:GLY:H	3:W:44:ILE:HG12	1.66	0.60
3:W:82:LEU:HA	3:W:85:GLU:HG2	1.84	0.60
3:W:439:VAL:O	3:W:443:THR:HG23	2.02	0.60
5:Y:63:TRP:HE1	5:Y:66:ASP:HB2	1.67	0.60
7:a:246:GLU:OE1	7:a:249:GLN:HB2	2.01	0.60
10:d:48:LEU:O	10:d:52:ARG:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:171:GLN:HE21	11:f:179:VAL:HG13	1.66	0.60
11:f:446:LEU:HD11	11:f:483:PHE:HB3	1.84	0.60
11:f:534:VAL:CG2	11:f:562:LEU:HA	2.32	0.60
12:A:243:SER:HB2	13:B:311:GLU:OE1	2.01	0.60
13:B:338:ASP:O	13:B:342:ILE:HG12	2.01	0.60
13:B:365:PHE:CD1	13:B:395:ILE:HG23	2.37	0.60
13:B:423:LYS:HE2	13:B:427:LEU:HD11	1.83	0.60
14:C:79:ALA:CB	14:C:85:VAL:HG12	2.32	0.60
16:E:235:ILE:HD11	16:E:277:MET:HB3	1.82	0.60
17:F:413:THR:OG1	17:F:414:GLU:OE1	2.20	0.60
22:J:88:ARG:NH1	29:Q:69:MET:O	2.34	0.60
23:K:40:ILE:HB	23:K:47:CYS:SG	2.42	0.60
23:K:196:LYS:HA	23:K:199:LEU:HG	1.83	0.60
24:L:13:TRP:HE1	25:M:130:PRO:HD2	1.67	0.60
29:Q:170:ARG:NE	30:r:140:ASP:OD2	2.29	0.60
19:g:79:VAL:HG12	19:g:139:ILE:HB	1.82	0.60
23:k:196:LYS:HA	23:k:199:LEU:CD2	2.31	0.60
23:k:196:LYS:HA	23:k:199:LEU:HG	1.83	0.60
26:n:6:VAL:HG22	26:n:125:PHE:CB	2.31	0.60
26:n:45:ARG:HD2	26:n:52:THR:HB	1.84	0.60
28:p:56:LEU:O	28:p:60:VAL:HG23	2.02	0.60
1:U:474:ARG:O	1:U:478:SER:CB	2.50	0.60
5:Y:382:LYS:O	5:Y:386:VAL:HG23	2.01	0.60
7:a:130:VAL:O	7:a:134:THR:HG22	2.01	0.60
8:b:100:ARG:HH12	8:b:103:LYS:HA	1.67	0.60
11:f:303:VAL:HG13	11:f:456:ARG:HH12	1.65	0.60
12:A:86:THR:O	12:A:90:GLU:HG2	2.02	0.60
13:B:193:GLN:HG3	13:B:351:ILE:HG21	1.83	0.60
21:I:174:MET:SD	21:I:196:VAL:HA	2.42	0.60
22:J:68:ASN:HD21	22:J:137:ASP:HA	1.67	0.60
28:P:56:LEU:O	28:P:60:VAL:HG23	2.02	0.60
29:Q:5:ILE:CG2	29:Q:16:ALA:HB3	2.31	0.60
19:g:42:VAL:HG22	19:g:165:ALA:HB1	1.84	0.60
22:j:96:LEU:CA	29:q:62:LYS:HE2	2.32	0.60
28:p:28:PHE:O	28:p:35:VAL:N	2.28	0.60
1:U:644:TYR:OH	14:C:53:ASN:HA	2.02	0.60
2:V:225:ASP:HA	2:V:228:ARG:CG	2.32	0.60
2:V:345:ARG:HH21	2:V:360:TYR:HB3	1.67	0.60
10:d:26:LEU:HD21	10:d:54:ILE:HD11	1.81	0.60
10:d:180:GLY:O	10:d:184:LYS:HG2	2.01	0.60
11:f:446:LEU:HD12	11:f:480:GLY:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:690:VAL:HB	11:f:691:PRO:HD3	1.83	0.60
11:f:830:LEU:HB2	11:f:859:PRO:CA	2.31	0.60
12:A:221:GLY:O	12:A:225:CYS:SG	2.53	0.60
12:A:239:ARG:CD	12:A:241:ILE:HG13	2.32	0.60
13:B:316:LEU:HD23	13:B:346:ARG:HH11	1.67	0.60
17:F:303:ASP:HB3	17:F:307:GLN:OE1	2.01	0.60
17:F:356:MET:HB2	17:F:357:PRO:HD2	1.82	0.60
26:N:59:VAL:HG11	26:N:83:PHE:CE2	2.37	0.60
25:m:184:MET:CB	25:m:189:ILE:HD11	2.32	0.60
30:r:115:ASP:HB2	30:r:119:ASN:HB2	1.83	0.60
32:t:53:ALA:CB	32:t:110:MET:HG2	2.32	0.60
1:U:24:LEU:HA	1:U:27:LEU:HD12	1.83	0.59
1:U:543:LYS:HG2	1:U:546:ARG:HH22	1.67	0.59
1:U:584:TYR:OH	1:U:768:GLN:NE2	2.34	0.59
1:U:681:ASN:HB3	1:U:723:ASP:OD2	2.02	0.59
3:W:48:LEU:HB2	3:W:96:GLN:HB2	1.83	0.59
4:X:57:LEU:HD13	4:X:66:LEU:CA	2.32	0.59
4:X:377:ILE:O	4:X:385:LEU:HD12	2.01	0.59
5:Y:181:LYS:O	5:Y:213:LEU:HD12	2.02	0.59
7:a:33:LEU:HA	8:b:18:ASN:CB	2.25	0.59
7:a:33:LEU:HD13	7:a:36:GLN:HB2	1.84	0.59
7:a:369:HIS:HA	7:a:372:HIS:CE1	2.37	0.59
11:f:240:VAL:HG22	11:f:257:ARG:HG3	1.84	0.59
11:f:421:ASP:O	11:f:451:VAL:HG12	2.02	0.59
11:f:781:TYR:O	11:f:785:ARG:HG2	2.01	0.59
12:A:120:LYS:O	17:F:90:VAL:HG22	2.02	0.59
12:A:143:ASP:HB2	12:A:150:HIS:CE1	2.37	0.59
12:A:195:LEU:O	12:A:198:PRO:HD3	2.02	0.59
12:A:271:LEU:CD2	12:A:316:LYS:HB2	2.32	0.59
15:D:386:ALA:HB2	15:D:398:ASP:OD2	2.01	0.59
32:T:174:ARG:HG2	32:T:178:TYR:CE2	2.36	0.59
29:q:10:PRO:HG3	29:q:150:THR:HA	1.84	0.59
29:q:163:CYS:O	29:q:167:LEU:HG	2.01	0.59
1:U:609:ASP:O	1:U:615:ARG:NH1	2.33	0.59
1:U:746:ILE:HA	1:U:782:ALA:O	2.02	0.59
2:V:264:TYR:CZ	2:V:267:ALA:HB3	2.37	0.59
3:W:112:VAL:HA	3:W:120:ILE:CD1	2.31	0.59
3:W:173:THR:HA	3:W:177:MET:CG	2.32	0.59
5:Y:267:ARG:HB3	5:Y:270:VAL:CG1	2.31	0.59
5:Y:332:GLN:O	5:Y:336:ARG:HG3	2.02	0.59
6:Z:58:PHE:HA	6:Z:69:PHE:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:30:GLN:HB3	9:c:66:THR:HG22	1.85	0.59
10:d:41:THR:O	10:d:44:THR:HG22	2.02	0.59
11:f:680:ARG:NE	11:f:763:ARG:HA	2.16	0.59
11:f:689:ALA:HA	11:f:692:LEU:HD12	1.83	0.59
11:f:754:LYS:HB2	11:f:754:LYS:NZ	2.17	0.59
11:f:757:ASN:CG	33:v:213:ILE:HB	2.24	0.59
12:A:103:ASN:HA	12:A:136:GLU:HG2	1.85	0.59
13:B:199:GLU:HG2	13:B:203:LEU:CD2	2.32	0.59
13:B:423:LYS:O	13:B:427:LEU:HG	2.02	0.59
14:C:117:ARG:HD3	14:C:120:SER:HB2	1.84	0.59
14:C:165:ILE:HA	14:C:290:LYS:CE	2.30	0.59
15:D:353:ASN:HD21	16:E:162:VAL:HA	1.67	0.59
17:F:373:MET:O	17:F:375:VAL:HG23	2.02	0.59
24:L:229:VAL:HG12	24:L:233:LEU:HG	1.84	0.59
25:M:87:LEU:HD21	25:M:131:PHE:CE2	2.37	0.59
26:N:45:ARG:HD2	26:N:52:THR:HB	1.84	0.59
29:Q:2:GLU:OE2	29:Q:47:VAL:HG13	2.01	0.59
21:i:174:MET:SD	21:i:196:VAL:HA	2.42	0.59
22:j:68:ASN:HD21	22:j:137:ASP:HA	1.67	0.59
23:k:115:ALA:HA	23:k:118:ASN:ND2	2.17	0.59
23:k:219:THR:O	23:k:227:HIS:HA	2.01	0.59
24:l:97:PHE:O	31:s:66:LYS:NZ	2.24	0.59
1:U:24:LEU:HD22	1:U:56:SER:CB	2.31	0.59
1:U:242:LEU:O	1:U:246:TYR:HB2	2.01	0.59
3:W:343:SER:O	3:W:347:GLY:N	2.34	0.59
3:W:451:MET:HE1	6:Z:211:TYR:HE1	1.66	0.59
5:Y:247:LEU:HA	5:Y:250:LEU:HD21	1.83	0.59
7:a:243:GLY:HA2	7:a:275:LEU:CD2	2.32	0.59
10:d:105:PHE:HA	10:d:166:PHE:CE1	2.38	0.59
11:f:129:LEU:HD13	11:f:130:ALA:HB2	1.84	0.59
11:f:176:ALA:CB	11:f:838:ARG:HH11	2.15	0.59
11:f:345:PRO:HD2	11:f:381:VAL:CG2	2.32	0.59
11:f:744:MET:SD	11:f:748:LEU:HD22	2.42	0.59
14:C:187:LEU:O	14:C:314:LYS:CA	2.37	0.59
15:D:363:TYR:HB3	15:D:403:TYR:CE2	2.36	0.59
16:E:75:ASN:ND2	17:F:130:GLN:HG2	2.16	0.59
17:F:134:LEU:HD13	17:F:137:ILE:HA	1.83	0.59
21:I:134:LEU:N	21:I:150:SER:OG	2.23	0.59
23:K:196:LYS:HA	23:K:199:LEU:CD2	2.31	0.59
28:P:44:PRO:HA	28:P:50:TYR:CD1	2.37	0.59
23:k:40:ILE:HB	23:k:47:CYS:SG	2.42	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:l:204:ASP:HB3	24:l:239:ARG:NH2	2.13	0.59
33:v:156:MET:HG2	33:v:178:HIS:CD2	2.38	0.59
33:v:210:ILE:O	33:v:210:ILE:HG22	2.02	0.59
1:U:98:GLU:HA	1:U:101:ILE:CG1	2.32	0.59
1:U:249:CYS:HB3	1:U:328:ILE:HB	1.84	0.59
1:U:660:CYS:HB3	1:U:665:ASN:ND2	2.17	0.59
3:W:260:SER:HA	3:W:263:TRP:HB3	1.84	0.59
5:Y:226:VAL:HA	5:Y:229:ILE:HD13	1.84	0.59
5:Y:283:LYS:HA	5:Y:291:HIS:HE1	1.68	0.59
6:Z:270:VAL:HA	6:Z:273:HIS:HD1	1.67	0.59
10:d:89:LEU:CB	10:d:90:PRO:CD	2.72	0.59
11:f:195:ASN:O	11:f:199:ASN:HB2	2.02	0.59
11:f:272:LEU:HA	11:f:275:MET:CG	2.33	0.59
11:f:538:ILE:CG2	11:f:562:LEU:HD21	2.33	0.59
11:f:565:ASN:CG	11:f:776:LEU:HD21	2.27	0.59
11:f:662:MET:SD	13:B:82:GLN:NE2	2.76	0.59
12:A:86:THR:O	12:A:89:SER:OG	2.14	0.59
14:C:127:LEU:HD11	15:D:112:TYR:CZ	2.33	0.59
16:E:194:ASN:ND2	16:E:227:PRO:O	2.36	0.59
17:F:140:VAL:HG21	17:F:145:LEU:HD11	1.85	0.59
20:H:93:LEU:HD21	20:H:113:ARG:CD	2.31	0.59
28:P:28:PHE:O	28:P:35:VAL:N	2.28	0.59
30:R:197:GLU:O	30:R:200:SER:OG	2.16	0.59
19:g:122:SER:HA	19:g:125:TYR:HD2	1.66	0.59
20:h:150:ASP:OD1	20:h:154:ALA:N	2.35	0.59
20:h:210:VAL:HG12	20:h:221:LEU:HD12	1.83	0.59
22:j:156:TRP:CD1	23:k:59:MET:HA	2.38	0.59
23:k:93:ARG:NH1	30:r:68:LEU:O	2.36	0.59
28:p:183:MET:HE3	28:p:204:MET:HE3	1.85	0.59
33:v:166:PHE:CD2	33:v:179:ARG:CB	2.78	0.59
2:V:100:MET:HG2	2:V:101:LEU:H	1.67	0.59
2:V:344:ASP:N	18:e:42:ASN:OD1	2.33	0.59
3:W:340:VAL:HA	3:W:350:ARG:HH11	1.66	0.59
3:W:357:ARG:O	3:W:361:HIS:ND1	2.35	0.59
6:Z:16:LEU:HD12	6:Z:135:THR:HG21	1.85	0.59
7:a:163:TYR:CG	7:a:172:TYR:HB2	2.38	0.59
9:c:139:ARG:H	9:c:139:ARG:HD2	1.68	0.59
10:d:60:GLN:HA	10:d:63:ILE:HG22	1.84	0.59
11:f:405:HIS:NE2	11:f:793:VAL:HG13	2.18	0.59
11:f:674:THR:O	11:f:678:LEU:CB	2.50	0.59
11:f:712:LYS:HE2	11:f:712:LYS:HA	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:828:ARG:HG2	11:f:845:ARG:O	2.03	0.59
11:f:873:LEU:HD12	11:f:876:HIS:O	1.97	0.59
14:C:127:LEU:CD1	15:D:96:VAL:CG2	2.55	0.59
14:C:144:PRO:HB2	14:C:205:HIS:HB2	1.85	0.59
21:I:119:GLN:HE22	22:J:79:ASP:HA	1.67	0.59
23:K:91:LYS:CD	23:K:119:LEU:HD21	2.33	0.59
23:K:200:ILE:HA	23:K:203:LYS:HE3	1.83	0.59
25:M:184:MET:CB	25:M:189:ILE:HD11	2.32	0.59
32:T:89:HIS:CE1	32:T:131:ALA:HB1	2.38	0.59
19:g:18:PRO:HA	20:h:24:TYR:CD1	2.37	0.59
20:h:19:LEU:HD13	20:h:22:ILE:HD12	1.84	0.59
23:k:67:ILE:HG21	23:k:218:ALA:HB2	1.85	0.59
25:m:41:CYS:HB2	25:m:184:MET:O	2.02	0.59
29:q:5:ILE:CG2	29:q:16:ALA:HB3	2.31	0.59
32:t:9:THR:O	32:t:54:SER:OG	2.11	0.59
32:t:23:ALA:CB	32:t:189:ILE:HG12	2.33	0.59
1:U:607:VAL:HG22	15:D:64:GLU:OE2	2.02	0.59
2:V:470:ARG:HB2	2:V:473:GLN:HE21	1.67	0.59
3:W:67:LEU:HD23	3:W:71:VAL:HB	1.84	0.59
3:W:145:LEU:HA	3:W:148:THR:HG22	1.84	0.59
4:X:214:SER:O	4:X:218:HIS:ND1	2.29	0.59
4:X:397:TYR:HE1	6:Z:258:VAL:HG21	1.67	0.59
7:a:240:PHE:O	7:a:275:LEU:HD21	2.01	0.59
11:f:253:LEU:O	11:f:257:ARG:HB2	2.03	0.59
11:f:283:THR:HA	11:f:286:LYS:HB3	1.85	0.59
11:f:331:LEU:CD1	11:f:808:ASN:HD22	2.06	0.59
11:f:408:LEU:HB2	11:f:439:TYR:CD1	2.37	0.59
11:f:523:GLY:CA	11:f:527:VAL:HB	2.32	0.59
11:f:528:GLY:HA3	11:f:566:HIS:H	1.67	0.59
12:A:99:THR:CG2	12:A:115:VAL:HA	2.31	0.59
12:A:249:TYR:HD2	17:F:259:MET:HE3	1.67	0.59
13:B:425:ASN:O	13:B:429:LYS:HG3	2.03	0.59
14:C:140:VAL:HG22	14:C:142:LYS:H	1.68	0.59
14:C:326:LEU:CD2	14:C:345:ARG:HG2	2.32	0.59
15:D:115:ILE:HG22	15:D:139:LEU:HB2	1.85	0.59
16:E:115:VAL:HG21	17:F:94:ILE:HG22	1.85	0.59
16:E:291:ARG:CZ	16:E:294:ARG:CD	2.75	0.59
17:F:123:VAL:HG22	17:F:133:PHE:HD1	1.67	0.59
19:G:51:VAL:HA	19:G:216:GLU:O	2.02	0.59
23:K:210:LEU:HD11	23:K:215:ILE:HG12	1.85	0.59
25:M:185:THR:O	25:M:189:ILE:HG12	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:R:97:MET:O	30:R:116:SER:N	2.35	0.59
19:g:77:GLY:HA3	19:g:227:PHE:CE1	2.38	0.59
21:i:34:CYS:H	21:i:164:ILE:HB	1.67	0.59
26:n:28:ASN:ND2	26:n:31:THR:OG1	2.36	0.59
27:o:50:ALA:HB3	28:p:127:ILE:HD12	1.84	0.59
30:r:44:THR:OG1	30:r:100:MET:N	2.21	0.59
1:U:220:LEU:CD1	1:U:229:VAL:HB	2.33	0.59
2:V:160:LEU:HB2	2:V:161:PRO:HD3	1.85	0.59
2:V:286:ALA:CA	2:V:315:LYS:HD3	2.32	0.59
2:V:291:TYR:O	2:V:295:ILE:HG12	2.02	0.59
3:W:16:MET:HE3	3:W:57:ALA:HB3	1.84	0.59
3:W:373:ILE:HG13	7:a:326:GLU:OE1	2.03	0.59
4:X:255:LEU:HB2	4:X:287:LEU:HD13	1.84	0.59
5:Y:236:LEU:O	5:Y:240:VAL:HG22	2.03	0.59
7:a:123:LEU:HD23	7:a:161:LYS:HE2	1.85	0.59
8:b:2:VAL:HG13	8:b:4:GLU:OE1	2.03	0.59
11:f:534:VAL:HG22	11:f:562:LEU:HD23	1.84	0.59
12:A:369:ARG:NH1	12:A:410:LEU:HD11	2.17	0.59
15:D:216:ALA:HA	15:D:219:VAL:HG12	1.85	0.59
15:D:378:ILE:HD13	15:D:403:TYR:HE1	1.66	0.59
16:E:111:LEU:HB3	16:E:112:PRO:HD2	1.83	0.59
22:J:68:ASN:HA	22:J:211:MET:HE1	1.85	0.59
26:N:18:SER:HB2	26:N:30:VAL:HA	1.84	0.59
26:N:34:LEU:HD11	26:N:186:ARG:NH2	2.18	0.59
28:P:183:MET:HE3	28:P:204:MET:HE3	1.85	0.59
29:Q:44:LEU:HD13	29:Q:104:LEU:HD23	1.85	0.59
30:R:115:ASP:HB2	30:R:119:ASN:HB2	1.83	0.59
31:S:35:ILE:O	32:T:151:ARG:NH2	2.30	0.59
19:g:51:VAL:HA	19:g:216:GLU:O	2.02	0.59
24:l:230:SER:HB2	24:l:231:PRO:HD3	1.84	0.59
25:m:87:LEU:HD21	25:m:131:PHE:CE2	2.37	0.59
1:U:506:ALA:HB2	1:U:541:HIS:CG	2.38	0.59
2:V:355:ARG:HD2	18:e:8:VAL:CG1	2.33	0.59
3:W:123:ARG:HH12	3:W:127:THR:HB	1.68	0.59
3:W:212:LYS:O	3:W:215:GLN:NE2	2.32	0.59
3:W:406:VAL:HA	3:W:413:ILE:CG2	2.32	0.59
5:Y:207:THR:O	5:Y:215:ASP:HB2	2.02	0.59
6:Z:39:LEU:HD11	6:Z:50:VAL:HG11	1.84	0.59
11:f:176:ALA:HB1	11:f:838:ARG:HH11	1.67	0.59
11:f:267:ARG:O	11:f:267:ARG:HD3	2.02	0.59
11:f:326:LEU:HA	11:f:329:ASN:OD1	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:822:VAL:O	11:f:851:ASP:HB2	2.02	0.59
17:F:76:ASN:O	17:F:80:ILE:HG12	2.02	0.59
21:I:47:ALA:HB3	21:I:212:GLU:HB3	1.85	0.59
24:L:109:VAL:HG21	24:L:145:PHE:CD2	2.35	0.59
27:O:219:LEU:HG	28:P:194:LYS:HA	1.83	0.59
19:g:27:TYR:HA	19:g:30:LYS:NZ	2.18	0.59
19:g:128:ASN:HB3	19:g:131:MET:SD	2.42	0.59
21:i:8:ARG:HE	22:j:5:ARG:HH21	1.50	0.59
23:k:67:ILE:HD13	23:k:216:GLU:HG3	1.83	0.59
29:q:44:LEU:HD13	29:q:104:LEU:HD23	1.85	0.59
31:s:168:LEU:O	31:s:172:MET:HG2	2.01	0.59
1:U:324:LYS:O	1:U:328:ILE:HG12	2.03	0.59
3:W:37:GLU:HB3	3:W:39:ARG:HG2	1.83	0.59
5:Y:177:ARG:HH11	5:Y:180:LEU:HD23	1.68	0.59
7:a:115:LYS:HA	7:a:118:ILE:HD12	1.84	0.59
11:f:125:ILE:HD11	11:f:129:LEU:N	2.16	0.59
11:f:181:ARG:NH2	12:A:38:GLN:O	2.35	0.59
11:f:558:LEU:HB2	11:f:559:PRO:HD3	1.85	0.59
12:A:191:VAL:HG21	12:A:318:LEU:HD21	1.84	0.59
12:A:194:PRO:HB3	12:A:201:PHE:CE2	2.36	0.59
20:H:19:LEU:HD13	20:H:22:ILE:HD12	1.84	0.59
20:H:44:VAL:HG11	20:H:146:LEU:HD13	1.85	0.59
22:J:38:ARG:HH12	22:J:182:GLU:HA	1.67	0.59
23:K:193:GLU:HA	23:K:196:LYS:NZ	2.16	0.59
31:S:57:PHE:HD2	31:S:60:ASP:H	1.51	0.59
1:U:141:CYS:HA	14:C:20:LEU:HB3	1.84	0.59
1:U:265:ILE:HG23	1:U:269:ARG:HH12	1.68	0.59
2:V:98:LEU:CA	2:V:104:THR:HG22	2.32	0.59
2:V:257:ASN:HA	2:V:260:HIS:HB3	1.84	0.59
2:V:433:ASP:HA	2:V:436:PHE:CD2	2.38	0.59
3:W:68:VAL:HG11	3:W:119:PRO:HB3	1.84	0.59
3:W:115:ILE:HG23	3:W:120:ILE:CB	2.32	0.59
5:Y:271:PHE:O	5:Y:275:LEU:HB2	2.03	0.59
5:Y:325:VAL:HG23	18:e:66:LYS:CD	2.32	0.59
8:b:11:ASP:OD1	8:b:54:LEU:HD11	2.02	0.59
9:c:53:VAL:O	9:c:113:HIS:HA	2.03	0.59
11:f:221:ILE:HB	11:f:239:TYR:CE1	2.38	0.59
11:f:291:GLN:HE21	11:f:879:ARG:HH21	1.51	0.59
11:f:307:LEU:HB2	11:f:314:TYR:CE2	2.38	0.59
12:A:190:VAL:HG11	12:A:212:VAL:CG2	2.33	0.59
14:C:235:PHE:HD2	14:C:279:GLN:HG2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:H:83:TYR:O	20:H:87:VAL:HG23	2.02	0.59
21:I:99:LEU:O	29:Q:86:ARG:NH2	2.33	0.59
26:N:6:VAL:HG22	26:N:125:PHE:CB	2.31	0.59
26:N:28:ASN:ND2	26:N:31:THR:OG1	2.36	0.59
28:P:26:ARG:HB3	28:P:37:THR:O	2.03	0.59
32:T:23:ALA:CB	32:T:189:ILE:HG12	2.33	0.59
24:l:146:GLN:HE21	24:l:154:PHE:HD2	1.50	0.59
24:l:157:ARG:HD2	25:m:56:LYS:CD	2.24	0.59
24:l:229:VAL:HG12	24:l:233:LEU:HG	1.84	0.59
28:p:26:ARG:HB3	28:p:37:THR:O	2.03	0.59
32:t:89:HIS:CE1	32:t:131:ALA:HB1	2.38	0.59
1:U:184:CYS:O	1:U:188:MET:HB2	2.03	0.58
1:U:495:ASP:HA	1:U:498:LYS:HZ3	1.68	0.58
1:U:681:ASN:ND2	9:c:182:GLY:CA	2.57	0.58
2:V:438:VAL:CG1	2:V:451:ILE:HG12	2.33	0.58
3:W:177:MET:HG2	3:W:182:ARG:HG2	1.84	0.58
3:W:188:GLU:O	3:W:191:ARG:HG2	2.03	0.58
4:X:137:TYR:HB3	4:X:142:ARG:HD2	1.85	0.58
10:d:52:ARG:HD3	10:d:81:TYR:CB	2.32	0.58
11:f:702:PRO:CB	11:f:787:LEU:HG	2.34	0.58
12:A:354:ILE:HG21	12:A:382:GLY:HA2	1.84	0.58
14:C:232:ARG:NH2	14:C:279:GLN:HB2	2.17	0.58
15:D:313:ARG:HB2	16:E:242:ARG:HH12	1.68	0.58
17:F:380:ASN:ND2	17:F:383:GLU:HG3	2.17	0.58
20:H:91:ARG:NH1	27:O:68:LEU:HG	2.17	0.58
21:I:37:ILE:O	21:I:44:LEU:HG	2.03	0.58
21:I:119:GLN:O	21:I:123:GLN:HG3	2.03	0.58
23:K:99:HIS:CB	23:K:107:MET:HE3	2.30	0.58
23:K:101:PHE:HA	30:R:57:ARG:NH2	2.18	0.58
25:M:180:GLN:HB2	25:M:184:MET:HE2	1.85	0.58
25:M:199:ILE:O	25:M:199:ILE:HG22	2.03	0.58
27:O:146:MET:HE1	27:O:154:LEU:CD2	2.33	0.58
29:Q:10:PRO:HG3	29:Q:150:THR:HA	1.84	0.58
29:Q:145:ARG:HG3	29:Q:146:TYR:CD1	2.38	0.58
20:h:44:VAL:HG11	20:h:146:LEU:HD13	1.85	0.58
2:V:108:LEU:HA	2:V:111:TYR:CD2	2.38	0.58
3:W:6:SER:HA	3:W:50:LEU:HD13	1.85	0.58
3:W:170:GLN:O	3:W:173:THR:OG1	2.20	0.58
5:Y:24:PHE:CD2	5:Y:286:TRP:HB2	2.38	0.58
5:Y:231:LEU:CG	5:Y:236:LEU:HB2	2.33	0.58
6:Z:170:VAL:HG22	9:c:152:LYS:CA	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:227:ASN:HA	7:a:231:GLN:HE21	1.67	0.58
8:b:141:ILE:CA	8:b:171:VAL:CG2	2.79	0.58
10:d:148:TYR:HB3	10:d:174:ILE:CD1	2.33	0.58
10:d:217:LEU:HB2	10:d:222:TYR:CE1	2.38	0.58
11:f:209:MET:HB3	11:f:212:GLU:CB	2.33	0.58
11:f:466:LEU:O	11:f:470:VAL:HG13	2.03	0.58
13:B:56:THR:HG23	13:B:58:CYS:H	1.67	0.58
15:D:270:ILE:HG22	15:D:289:LEU:HD21	1.85	0.58
15:D:354:LEU:HD23	15:D:354:LEU:C	2.28	0.58
20:H:159:LYS:HE2	21:I:56:LEU:O	2.03	0.58
25:M:21:PHE:HA	25:M:24:GLU:HB2	1.84	0.58
25:M:41:CYS:HB2	25:M:184:MET:O	2.02	0.58
26:N:138:TYR:N	26:n:138:TYR:HB2	2.17	0.58
28:P:126:LEU:HD12	28:P:127:ILE:HG23	1.85	0.58
19:g:189:TRP:CE3	19:g:193:GLN:HG3	2.38	0.58
22:j:38:ARG:HH12	22:j:182:GLU:HA	1.67	0.58
23:k:91:LYS:CD	23:k:119:LEU:HD21	2.33	0.58
25:m:69:VAL:HG23	25:m:75:MET:HG2	1.85	0.58
25:m:71:ARG:O	25:m:224:HIS:N	2.28	0.58
26:n:59:VAL:HG11	26:n:83:PHE:CE2	2.37	0.58
1:U:149:GLN:OE1	15:D:40:LEU:HD12	2.02	0.58
1:U:408:LEU:HD21	1:U:422:LEU:CD2	2.34	0.58
1:U:489:ALA:HA	1:U:519:VAL:O	2.03	0.58
1:U:656:LEU:HD21	1:U:671:LEU:CD1	2.32	0.58
3:W:169:LEU:CD1	3:W:189:GLN:HG3	2.32	0.58
4:X:329:ASN:O	4:X:333:GLN:HG2	2.03	0.58
4:X:409:LYS:HD2	9:c:256:ASN:HD21	1.67	0.58
5:Y:247:LEU:HA	5:Y:250:LEU:CD2	2.33	0.58
5:Y:279:GLU:O	5:Y:283:LYS:HG2	2.03	0.58
6:Z:94:TRP:HH2	6:Z:105:ASP:CG	2.10	0.58
7:a:160:SER:O	7:a:163:TYR:HB3	2.04	0.58
7:a:315:LEU:CD2	7:a:320:VAL:HG13	2.32	0.58
9:c:26:ASP:CB	9:c:173:GLU:HG2	2.33	0.58
10:d:135:HIS:HB3	10:d:136:PRO:HD3	1.85	0.58
11:f:113:MET:HE3	11:f:114:ALA:O	2.03	0.58
11:f:292:LYS:HA	11:f:296:PHE:CD2	2.38	0.58
11:f:801:VAL:HB	11:f:804:LEU:HD11	1.85	0.58
12:A:397:ILE:HG23	13:B:210:TYR:CB	2.33	0.58
13:B:49:LEU:HG	13:B:68:ILE:HD11	1.84	0.58
13:B:358:GLU:HG2	13:B:384:ILE:O	2.02	0.58
14:C:154:LEU:CD1	14:C:195:GLY:HA3	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:D:235:PHE:CZ	15:D:270:ILE:HG13	2.38	0.58
17:F:228:PRO:HB2	17:F:231:THR:HG23	1.85	0.58
27:O:46:ALA:HB3	27:O:97:ALA:HB3	1.85	0.58
32:T:209:TRP:HZ3	26:n:29:ARG:HB3	1.68	0.58
21:i:109:GLN:OE1	29:q:71:ASN:ND2	2.29	0.58
22:j:65:LEU:C	29:q:69:MET:HE2	2.28	0.58
22:j:68:ASN:HA	22:j:211:MET:HE1	1.85	0.58
23:k:200:ILE:HA	23:k:203:LYS:HE3	1.83	0.58
29:q:145:ARG:HG3	29:q:146:TYR:CD1	2.38	0.58
30:r:97:MET:O	30:r:116:SER:N	2.36	0.58
1:U:644:TYR:CZ	14:C:53:ASN:HA	2.38	0.58
2:V:84:LYS:HE2	2:V:122:THR:HG22	1.85	0.58
3:W:12:ARG:HD2	3:W:27:ARG:CD	2.31	0.58
3:W:94:ARG:HB2	3:W:98:LYS:CG	2.32	0.58
3:W:104:MET:HB3	3:W:123:ARG:NH2	2.19	0.58
3:W:190:MET:HG3	3:W:226:TYR:OH	2.03	0.58
5:Y:297:ARG:HB3	5:Y:300:ARG:HD2	1.84	0.58
6:Z:184:VAL:HG21	15:D:73:LEU:CD1	2.33	0.58
7:a:320:VAL:HG23	7:a:335:TRP:O	2.03	0.58
11:f:20:ALA:CB	11:f:71:TYR:HA	2.32	0.58
11:f:72:ARG:O	11:f:72:ARG:HD3	2.03	0.58
15:D:205:TYR:HA	15:D:311:THR:O	2.03	0.58
15:D:271:ALA:O	15:D:317:LEU:HA	2.02	0.58
15:D:300:ASP:OD2	15:D:303:VAL:HG23	2.03	0.58
22:J:63:CYS:SG	22:J:84:ILE:HD13	2.44	0.58
23:K:67:ILE:HG21	23:K:218:ALA:HB2	1.84	0.58
23:K:72:ALA:HB1	23:K:226:PHE:CE1	2.38	0.58
24:L:26:MET:SD	24:L:149:PRO:HD2	2.43	0.58
25:M:179:LEU:CD1	25:M:192:GLU:CG	2.81	0.58
25:M:179:LEU:CD1	25:M:192:GLU:HG2	2.32	0.58
23:k:210:LEU:HD11	23:k:215:ILE:HG12	1.85	0.58
25:m:180:GLN:HB2	25:m:184:MET:HE2	1.85	0.58
31:s:46:LEU:HD11	31:s:52:ILE:CB	2.32	0.58
1:U:789:ILE:HG12	1:U:881:PRO:HA	1.85	0.58
1:U:874:ASN:HA	1:U:876:GLN:HE22	1.68	0.58
2:V:32:PRO:HA	2:V:76:LYS:HZ1	1.68	0.58
5:Y:77:ASN:HD22	5:Y:80:GLU:HB3	1.67	0.58
5:Y:223:THR:HA	5:Y:226:VAL:CG1	2.33	0.58
5:Y:237:ARG:NH1	5:Y:264:TYR:OH	2.29	0.58
7:a:375:LEU:H	7:a:375:LEU:HD23	1.69	0.58
9:c:266:THR:HG22	9:c:267:PRO:CD	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:53:GLN:HA	11:f:58:MET:CG	2.34	0.58
11:f:419:LEU:HG	11:f:420:TRP:CD1	2.38	0.58
11:f:469:TYR:OH	11:f:478:ARG:NH1	2.35	0.58
11:f:485:LEU:HD23	11:f:525:ILE:HD11	1.86	0.58
11:f:597:VAL:HB	11:f:635:LYS:CE	2.33	0.58
11:f:729:MET:HA	11:f:732:VAL:HG12	1.85	0.58
12:A:45:ILE:HG12	13:B:65:LEU:HD12	1.85	0.58
15:D:163:MET:HB2	15:D:166:ASP:HB2	1.86	0.58
15:D:361:GLU:HA	15:D:364:VAL:CG2	2.34	0.58
16:E:148:VAL:HG23	16:E:167:PRO:HB2	1.84	0.58
19:G:189:TRP:CE3	19:G:193:GLN:HG3	2.38	0.58
20:H:6:TYR:HE2	20:H:126:GLY:HA3	1.68	0.58
20:H:93:LEU:HA	20:H:96:GLN:OE1	2.03	0.58
24:L:40:SER:N	24:L:43:HIS:O	2.35	0.58
25:M:58:TYR:CE2	25:M:60:GLU:HA	2.38	0.58
25:M:110:HIS:NE2	26:N:70:LEU:HD23	2.18	0.58
30:R:3:THR:HG22	30:R:16:ALA:CB	2.33	0.58
32:T:171:ARG:NH2	27:o:140:ASP:OD2	2.36	0.58
27:o:146:MET:HE1	27:o:154:LEU:CD2	2.33	0.58
29:q:49:GLU:O	29:q:53:THR:HG23	2.03	0.58
1:U:376:MET:HG3	1:U:377:HIS:CD2	2.39	0.58
1:U:536:ALA:HB2	1:U:548:LEU:HD22	1.86	0.58
2:V:182:LYS:HD2	2:V:206:VAL:CG1	2.34	0.58
3:W:56:THR:O	3:W:60:MET:HG2	2.03	0.58
4:X:316:ASP:HB2	4:X:319:ILE:CG2	2.29	0.58
5:Y:191:ILE:HD13	5:Y:290:PRO:HB3	1.85	0.58
5:Y:204:THR:HG22	5:Y:219:PHE:HE2	1.69	0.58
7:a:28:LEU:HD23	7:a:37:LEU:HA	1.85	0.58
10:d:103:LEU:HD13	10:d:118:GLU:OE1	2.04	0.58
11:f:54:ASP:O	11:f:59:LEU:HD23	2.04	0.58
11:f:271:MET:O	11:f:275:MET:HG2	2.03	0.58
11:f:380:PHE:O	11:f:755:ASP:HB2	2.03	0.58
11:f:758:ASN:HB2	11:f:809:ILE:HG21	1.84	0.58
11:f:830:LEU:HB2	11:f:859:PRO:C	2.28	0.58
14:C:21:ARG:HB3	14:C:25:LEU:HD13	1.84	0.58
14:C:158:ILE:CG2	14:C:162:LYS:HE3	2.32	0.58
15:D:89:ILE:CD1	16:E:70:ILE:HG23	2.33	0.58
17:F:252:ALA:HB3	17:F:255:GLN:HG3	1.85	0.58
17:F:376:SER:HB3	17:F:414:GLU:HG3	1.86	0.58
18:e:62:LYS:O	18:e:66:LYS:HG3	2.03	0.58
25:M:192:GLU:OE2	25:M:196:ILE:HD12	2.00	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:O:48:THR:O	27:O:52:THR:HG23	2.04	0.58
20:h:6:TYR:HE2	20:h:126:GLY:HA3	1.68	0.58
24:l:26:MET:SD	24:l:149:PRO:HD2	2.43	0.58
26:n:34:LEU:HD11	26:n:186:ARG:NH2	2.18	0.58
30:r:3:THR:HG22	30:r:16:ALA:CB	2.33	0.58
1:U:19:LEU:O	1:U:23:ALA:HB2	2.03	0.58
1:U:443:LEU:HD23	1:U:446:LEU:HD22	1.86	0.58
1:U:685:GLN:NE2	1:U:689:ILE:HD11	2.19	0.58
1:U:701:ILE:HD13	1:U:810:THR:CG2	2.34	0.58
2:V:172:VAL:CG1	2:V:217:VAL:HG13	2.34	0.58
2:V:411:SER:HB2	2:V:447:ILE:HG12	1.84	0.58
3:W:55:ARG:O	3:W:58:SER:OG	2.21	0.58
3:W:128:LEU:HD22	3:W:147:LYS:NZ	2.19	0.58
3:W:406:VAL:HG22	4:X:341:PRO:O	2.03	0.58
6:Z:151:THR:OG1	7:a:146:PRO:HG3	2.03	0.58
7:a:356:TRP:O	7:a:360:VAL:HG23	2.04	0.58
7:a:363:MET:SD	9:c:307:VAL:HG12	2.43	0.58
9:c:244:VAL:HA	9:c:247:GLU:OE2	2.03	0.58
10:d:166:PHE:O	10:d:170:LEU:HB2	2.04	0.58
10:d:215:TRP:HA	10:d:223:TYR:O	2.04	0.58
11:f:516:GLY:HA3	11:f:557:TRP:HE3	1.68	0.58
13:B:60:LEU:HB3	13:B:64:LYS:HZ3	1.67	0.58
15:D:269:ALA:HA	16:E:258:MET:HE1	1.84	0.58
19:G:77:GLY:HA3	19:G:227:PHE:CE1	2.38	0.58
23:K:17:PRO:HA	24:L:24:TYR:CZ	2.39	0.58
23:K:229:PHE:CE2	23:K:234:LEU:HD12	2.39	0.58
25:M:71:ARG:O	25:M:224:HIS:N	2.28	0.58
29:Q:13:VAL:O	29:Q:182:ILE:HD12	2.03	0.58
29:Q:44:LEU:HD13	29:Q:104:LEU:CD2	2.34	0.58
32:T:53:ALA:CB	32:T:110:MET:HG2	2.32	0.58
32:T:99:ARG:CG	32:T:106:LEU:HG	2.32	0.58
19:g:18:PRO:HA	20:h:24:TYR:CE1	2.38	0.58
23:k:99:HIS:CB	23:k:107:MET:HE3	2.30	0.58
23:k:229:PHE:CE2	23:k:234:LEU:HD12	2.39	0.58
24:l:189:LYS:O	24:l:193:ARG:HG3	2.03	0.58
25:m:110:HIS:NE2	26:n:70:LEU:HA	2.18	0.58
25:m:185:THR:O	25:m:189:ILE:HG12	2.02	0.58
27:o:179:SER:OG	27:o:182:LYS:N	2.33	0.58
33:v:153:ARG:CZ	33:v:160:LYS:HD3	2.34	0.58
33:v:212:ARG:HB3	33:v:212:ARG:NH1	2.18	0.58
1:U:640:LEU:HD21	15:D:60:TYR:OH	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:642:GLU:O	14:C:53:ASN:ND2	2.29	0.58
1:U:725:MET:SD	9:c:182:GLY:O	2.62	0.58
2:V:470:ARG:HE	2:V:474:LEU:HG	1.68	0.58
3:W:407:ASP:OD1	4:X:344:ARG:HB3	2.04	0.58
5:Y:45:VAL:HB	5:Y:70:LEU:HD21	1.85	0.58
6:Z:8:LYS:HA	6:Z:159:THR:O	2.04	0.58
6:Z:239:ASP:O	6:Z:242:LEU:HD22	2.03	0.58
10:d:152:PHE:HE2	10:d:174:ILE:HD12	1.68	0.58
11:f:39:LYS:O	11:f:43:GLN:CB	2.51	0.58
11:f:553:THR:HG23	11:f:557:TRP:CZ3	2.38	0.58
11:f:560:LEU:HA	11:f:564:LEU:CD2	2.34	0.58
11:f:570:GLY:HA2	11:f:599:ALA:O	2.04	0.58
11:f:673:ARG:NH1	11:f:708:ASP:OD2	2.36	0.58
11:f:703:ARG:NH2	11:f:741:LEU:HD12	2.19	0.58
11:f:785:ARG:NH1	11:f:791:VAL:HG12	2.18	0.58
12:A:282:GLY:HA2	12:A:327:LEU:HD13	1.86	0.58
13:B:105:THR:HB	13:B:106:PRO:HD2	0.63	0.58
13:B:314:ASN:OD1	13:B:318:GLY:HA3	2.04	0.58
21:I:76:VAL:HG21	21:I:83:ALA:CB	2.34	0.58
24:L:146:GLN:HE21	24:L:154:PHE:HD2	1.50	0.58
23:k:72:ALA:HB1	23:k:226:PHE:CE1	2.38	0.58
29:q:44:LEU:HD13	29:q:104:LEU:CD2	2.34	0.58
1:U:26:LYS:O	1:U:30:VAL:HG22	2.03	0.58
1:U:108:TYR:CD1	1:U:134:VAL:HG21	2.39	0.58
1:U:583:MET:HE1	1:U:602:LEU:CD2	2.32	0.58
2:V:61:GLU:HA	2:V:64:GLN:OE1	2.03	0.58
3:W:231:ILE:HG21	3:W:247:TYR:HE1	1.67	0.58
4:X:154:LEU:O	4:X:158:LYS:HG2	2.04	0.58
5:Y:121:LEU:HB2	5:Y:125:ARG:HH12	1.69	0.58
5:Y:299:MET:HA	5:Y:302:HIS:HB3	1.86	0.58
6:Z:79:TYR:CE1	6:Z:91:ILE:HG23	2.39	0.58
6:Z:106:ILE:HA	6:Z:155:PHE:CZ	2.39	0.58
8:b:144:GLY:O	8:b:173:VAL:HG11	2.03	0.58
10:d:8:GLU:HB2	10:d:18:LYS:HD2	1.86	0.58
10:d:79:LYS:HZ3	10:d:121:ARG:HH12	1.50	0.58
11:f:472:HIS:HB2	11:f:478:ARG:HA	1.86	0.58
11:f:692:LEU:CD1	12:A:77:LEU:HB2	2.32	0.58
13:B:357:ASP:HB2	13:B:388:ASP:HB2	1.85	0.58
13:B:380:LEU:HB3	13:B:384:ILE:CD1	2.33	0.58
14:C:115:ALA:HB3	14:C:125:LYS:N	2.18	0.58
15:D:235:PHE:CD2	15:D:288:ILE:HG21	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:E:119:VAL:HA	16:E:122:MET:HG2	1.85	0.58
19:G:128:ASN:HB3	19:G:131:MET:SD	2.42	0.58
21:I:192:LEU:O	21:I:196:VAL:HG23	2.04	0.58
26:N:18:SER:OG	26:N:173:VAL:HG12	2.04	0.58
28:P:36:THR:OG1	28:P:38:ASP:OD1	2.11	0.58
21:i:37:ILE:O	21:i:44:LEU:HG	2.03	0.58
25:m:21:PHE:HA	25:m:24:GLU:HB2	1.84	0.58
28:p:53:LEU:HD23	28:p:107:PRO:HA	1.86	0.58
30:r:197:GLU:O	30:r:200:SER:OG	2.16	0.58
1:U:377:HIS:HB3	1:U:380:THR:HG22	1.86	0.58
1:U:440:GLY:HA2	1:U:473:VAL:HG13	1.85	0.58
3:W:446:ILE:HG22	6:Z:226:ILE:HD11	1.85	0.58
9:c:189:ILE:HA	9:c:192:LEU:CG	2.34	0.58
11:f:91:SER:HA	11:f:109:ILE:CG2	2.34	0.58
11:f:179:VAL:CG1	11:f:216:MET:HB2	2.33	0.58
11:f:450:ILE:HG23	11:f:804:LEU:HD13	1.86	0.58
11:f:559:PRO:HG3	11:f:591:ALA:HB2	1.84	0.58
11:f:657:ILE:O	11:f:661:ALA:HB3	2.04	0.58
11:f:757:ASN:OD1	33:v:213:ILE:CG1	2.51	0.58
12:A:142:VAL:HG13	12:A:148:GLN:C	2.28	0.58
12:A:274:PHE:CD2	12:A:319:MET:HE2	2.37	0.58
12:A:314:ASN:ND2	33:v:201:GLU:O	2.36	0.58
14:C:161:ILE:CG2	14:C:165:ILE:HD12	2.33	0.58
14:C:244:SER:O	14:C:289:ILE:HG23	2.04	0.58
16:E:87:LEU:HD22	16:E:92:LEU:HD11	1.86	0.58
16:E:145:LEU:HG	16:E:149:ILE:HD12	1.85	0.58
16:E:331:ILE:HG23	16:E:371:VAL:HG21	1.85	0.58
20:H:100:VAL:HG13	28:P:93:ASN:HD22	1.69	0.58
20:H:113:ARG:O	20:H:116:SER:OG	2.18	0.58
22:J:94:HIS:O	22:J:97:THR:C	2.47	0.58
22:j:110:TYR:O	22:j:113:SER:OG	2.18	0.58
28:p:126:LEU:HD12	28:p:127:ILE:HG23	1.86	0.58
31:s:44:TYR:O	31:s:51:VAL:HG13	2.04	0.58
1:U:644:TYR:OH	14:C:56:VAL:HB	2.04	0.57
3:W:32:ALA:O	3:W:36:LYS:HG3	2.04	0.57
3:W:243:ILE:HG13	3:W:273:TYR:CE2	2.39	0.57
3:W:432:LEU:O	3:W:436:MET:HB2	2.03	0.57
5:Y:121:LEU:HB2	5:Y:125:ARG:NH1	2.18	0.57
5:Y:377:LEU:O	5:Y:381:GLN:HG3	2.04	0.57
10:d:247:ILE:O	10:d:251:ARG:HB2	2.04	0.57
11:f:329:ASN:C	11:f:333:LEU:CD2	2.77	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:761:MET:HG2	11:f:807:ARG:HH22	1.68	0.57
11:f:826:GLN:HA	11:f:849:ALA:HA	1.85	0.57
16:E:243:PHE:CE1	17:F:299:GLU:HA	2.39	0.57
19:G:27:TYR:HA	19:G:30:LYS:NZ	2.17	0.57
19:G:88:ARG:NH1	25:M:157:SER:O	2.35	0.57
21:I:33:THR:OG1	21:I:165:GLY:HA3	2.04	0.57
21:I:34:CYS:H	21:I:164:ILE:HB	1.67	0.57
21:I:68:LEU:HD11	21:I:72:MET:CB	2.34	0.57
31:S:121:VAL:HB	31:S:133:ASP:O	2.04	0.57
21:i:119:GLN:O	21:i:123:GLN:HG3	2.03	0.57
22:j:56:GLU:N	22:j:56:GLU:OE1	2.37	0.57
22:j:63:CYS:SG	22:j:84:ILE:HD13	2.44	0.57
22:j:121:SER:CB	22:j:124:ARG:HD3	2.34	0.57
25:m:109:LYS:HA	25:m:149:TYR:HE2	1.69	0.57
2:V:352:SER:OG	18:e:9:ASP:O	2.18	0.57
2:V:398:LEU:O	2:V:402:VAL:HG23	2.04	0.57
4:X:172:LEU:HD12	4:X:175:LYS:HD3	1.86	0.57
4:X:344:ARG:HG3	4:X:386:ILE:CG1	2.32	0.57
5:Y:231:LEU:HB2	5:Y:234:PRO:HD2	1.84	0.57
11:f:322:SER:OG	11:f:455:VAL:O	2.21	0.57
11:f:370:MET:HB2	11:f:743:ALA:HB1	1.85	0.57
11:f:718:ASP:CG	11:f:760:PHE:HD1	2.12	0.57
12:A:74:PRO:HG2	12:A:77:LEU:CD2	2.34	0.57
12:A:397:ILE:HG21	13:B:211:TYR:HE1	1.68	0.57
14:C:158:ILE:O	14:C:162:LYS:HG3	2.04	0.57
15:D:204:MET:HB2	15:D:310:ALA:CB	2.33	0.57
17:F:196:GLN:HE21	33:v:164:THR:CG2	1.97	0.57
25:M:191:LYS:CE	25:M:234:GLU:HB3	2.33	0.57
19:g:181:LYS:HA	19:g:184:LYS:HE3	1.86	0.57
20:h:157:ALA:HB1	21:i:57:ASP:HB2	1.85	0.57
21:i:33:THR:OG1	21:i:165:GLY:HA3	2.04	0.57
21:i:192:LEU:O	21:i:196:VAL:HG23	2.04	0.57
24:l:68:ASN:O	24:l:220:GLU:HG2	2.04	0.57
26:n:18:SER:OG	26:n:173:VAL:HG12	2.04	0.57
1:U:374:SER:HA	1:U:411:ILE:HG13	1.85	0.57
1:U:686:GLY:HA2	1:U:689:ILE:HD12	1.86	0.57
2:V:302:TYR:HA	2:V:339:LEU:CD2	2.34	0.57
2:V:322:VAL:HG12	2:V:325:LYS:HB2	1.86	0.57
2:V:469:THR:HA	6:Z:250:TYR:CD2	2.39	0.57
3:W:40:LEU:HB3	3:W:43:VAL:HB	1.87	0.57
5:Y:20:ALA:HB2	5:Y:150:PHE:HA	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:45:VAL:HG23	5:Y:46:ARG:HD3	1.84	0.57
5:Y:118:GLU:O	5:Y:121:LEU:HG	2.04	0.57
6:Z:249:PHE:CZ	9:c:306:THR:HG21	2.39	0.57
7:a:33:LEU:CD1	7:a:36:GLN:HB2	2.34	0.57
7:a:73:PRO:HD2	7:a:108:ASP:CB	2.34	0.57
10:d:11:ARG:O	10:d:12:LYS:HG3	2.04	0.57
10:d:49:ILE:HG23	10:d:52:ARG:HH11	1.68	0.57
11:f:191:ILE:HG22	11:f:231:LEU:HD11	1.86	0.57
11:f:294:MET:CG	11:f:321:MET:HA	2.32	0.57
11:f:545:LYS:HE3	11:f:555:ALA:HA	1.84	0.57
12:A:42:SER:HA	13:B:57:GLN:CD	2.29	0.57
12:A:174:TYR:CE2	12:A:232:ARG:HD3	2.39	0.57
12:A:280:ILE:HA	12:A:295:VAL:CG1	2.35	0.57
12:A:365:GLU:HB3	12:A:406:GLU:CG	2.34	0.57
14:C:351:MET:HB3	14:C:354:ALA:HB2	1.86	0.57
15:D:125:LYS:HD3	15:D:126:PRO:HD3	0.67	0.57
17:F:191:LEU:O	17:F:195:ILE:CD1	2.52	0.57
19:G:42:VAL:HG22	19:G:165:ALA:HB1	1.84	0.57
21:I:63:GLU:CD	21:I:64:LYS:H	2.12	0.57
23:K:38:ILE:HG12	23:K:169:ALA:CB	2.35	0.57
24:L:68:ASN:O	24:L:220:GLU:HG2	2.04	0.57
25:M:69:VAL:HG23	25:M:75:MET:HG2	1.86	0.57
20:h:184:LEU:O	20:h:188:ILE:HG13	2.04	0.57
25:m:58:TYR:CE2	25:m:60:GLU:HA	2.38	0.57
1:U:89:ASN:O	1:U:136:LYS:NZ	2.38	0.57
1:U:500:ASN:HB3	1:U:512:ALA:HB2	1.86	0.57
1:U:593:SER:HA	1:U:628:ARG:NH1	2.19	0.57
2:V:191:LEU:O	2:V:192:MET:HE2	2.04	0.57
6:Z:6:VAL:O	6:Z:7:GLN:HG2	2.05	0.57
6:Z:109:ASN:HD22	6:Z:155:PHE:HE1	1.53	0.57
7:a:54:ASP:OD2	7:a:87:MET:HG3	2.03	0.57
8:b:121:GLU:O	8:b:124:LEU:HG	2.03	0.57
9:c:33:ILE:HA	9:c:69:VAL:CG1	2.34	0.57
9:c:275:VAL:HG23	15:D:121:ARG:HB3	1.87	0.57
10:d:52:ARG:HD3	10:d:81:TYR:HB3	1.86	0.57
14:C:21:ARG:NH2	14:C:25:LEU:HD21	2.18	0.57
15:D:264:ILE:CD1	15:D:309:MET:HE2	2.33	0.57
16:E:75:ASN:HD22	17:F:130:GLN:HG2	1.69	0.57
17:F:93:VAL:O	17:F:148:GLY:N	2.25	0.57
17:F:193:LYS:HD3	17:F:193:LYS:N	2.20	0.57
17:F:197:GLU:HB3	17:F:350:ARG:HH21	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G:47:CYS:HB3	19:G:221:THR:HG23	1.87	0.57
22:J:156:TRP:CD1	23:K:59:MET:HA	2.39	0.57
23:K:186:HIS:O	23:K:189:MET:HG2	2.04	0.57
25:M:40:ARG:CB	25:M:45:VAL:HG22	2.34	0.57
21:i:123:GLN:HE22	22:j:82:ILE:HG13	1.70	0.57
22:j:70:CYS:O	22:j:71:MET:HE2	2.04	0.57
27:o:46:ALA:HB3	27:o:97:ALA:HB3	1.85	0.57
29:q:13:VAL:O	29:q:182:ILE:HD12	2.03	0.57
1:U:793:LYS:HG2	1:U:794:ASP:H	1.69	0.57
2:V:305:ALA:O	2:V:309:MET:HG2	2.03	0.57
3:W:38:GLY:N	3:W:44:ILE:HG12	2.19	0.57
3:W:82:LEU:CD2	3:W:90:LEU:HA	2.35	0.57
3:W:155:GLN:NE2	3:W:161:GLU:OE1	2.38	0.57
3:W:259:GLU:HG2	3:W:261:GLU:OE1	2.05	0.57
4:X:343:SER:O	4:X:386:ILE:HA	2.04	0.57
5:Y:246:ILE:HA	5:Y:249:VAL:HG22	1.86	0.57
5:Y:268:TYR:HA	5:Y:271:PHE:CD2	2.39	0.57
5:Y:345:CYS:HB2	5:Y:356:THR:HA	1.85	0.57
7:a:275:LEU:O	7:a:278:MET:HG2	2.05	0.57
10:d:251:ARG:O	10:d:255:MET:HG2	2.04	0.57
11:f:7:ASP:HB3	11:f:10:PRO:HB2	1.86	0.57
11:f:24:THR:HA	11:f:31:LYS:HG3	1.85	0.57
11:f:511:SER:HB2	11:f:515:ALA:HB2	1.85	0.57
11:f:796:LEU:O	11:f:800:LEU:HD13	2.05	0.57
11:f:860:LYS:HB3	11:f:862:ILE:CD1	2.35	0.57
12:A:348:LEU:O	12:A:352:THR:HG23	2.04	0.57
14:C:31:LEU:HB3	15:D:47:LEU:CB	2.33	0.57
16:E:177:GLY:N	17:F:344:ARG:HD2	2.19	0.57
16:E:235:ILE:HD11	16:E:277:MET:SD	2.44	0.57
37:E:401:ADP:O5'	17:F:344:ARG:NH1	2.37	0.57
19:G:37:LEU:O	19:G:170:VAL:HG23	2.05	0.57
23:K:110:GLU:HG3	23:K:162:PHE:CE2	2.40	0.57
24:L:189:LYS:O	24:L:193:ARG:HG3	2.03	0.57
26:N:45:ARG:HD2	26:N:52:THR:CB	2.34	0.57
19:g:47:CYS:HB3	19:g:221:THR:HG23	1.87	0.57
21:i:63:GLU:CD	21:i:64:LYS:H	2.12	0.57
25:m:152:ASP:OD1	25:m:156:VAL:N	2.38	0.57
2:V:232:HIS:O	2:V:236:ARG:HB2	2.04	0.57
3:W:48:LEU:HD12	3:W:96:GLN:OE1	2.05	0.57
3:W:89:LEU:O	3:W:89:LEU:HD13	2.04	0.57
3:W:117:ASP:O	3:W:121:LYS:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:320:ALA:O	5:Y:325:VAL:HG12	2.05	0.57
6:Z:106:ILE:HD11	6:Z:153:LYS:HG2	1.86	0.57
10:d:49:ILE:HD12	10:d:52:ARG:HH11	1.70	0.57
10:d:52:ARG:O	10:d:78:LEU:HD21	2.05	0.57
10:d:183:GLU:OE2	10:d:213:ARG:HB3	2.05	0.57
11:f:619:HIS:HA	13:B:85:MET:HE1	1.87	0.57
14:C:117:ARG:NE	14:C:119:ASP:HB3	2.19	0.57
14:C:204:ALA:HB3	14:C:211:PHE:HB2	1.85	0.57
14:C:326:LEU:HD22	14:C:345:ARG:HG2	1.86	0.57
16:E:115:VAL:HG11	17:F:95:GLU:CB	2.35	0.57
16:E:372:ARG:HE	25:M:173:LYS:HE3	1.70	0.57
23:K:191:LEU:O	23:K:195:ILE:HG13	2.05	0.57
23:K:196:LYS:HA	23:K:199:LEU:CG	2.35	0.57
25:M:40:ARG:HB3	25:M:45:VAL:HG22	1.86	0.57
25:M:51:LYS:HB3	25:M:210:GLU:HB3	1.84	0.57
31:S:4:PRO:O	32:T:100:ARG:NH2	2.36	0.57
31:S:71:ARG:NE	31:S:91:MET:SD	2.64	0.57
21:i:73:ALA:O	21:i:137:ILE:HG13	2.05	0.57
22:j:94:HIS:O	22:j:97:THR:C	2.47	0.57
23:k:191:LEU:O	23:k:195:ILE:HG13	2.05	0.57
32:t:141:TYR:HA	32:t:144:TYR:HD2	1.70	0.57
1:U:108:TYR:OH	1:U:159:ARG:NH1	2.32	0.57
2:V:290:TYR:CE1	2:V:309:MET:HE1	2.40	0.57
2:V:326:GLN:HG3	18:e:6:GLN:HG3	1.87	0.57
4:X:284:THR:O	4:X:288:LYS:HG3	2.05	0.57
7:a:297:ALA:O	7:a:301:LYS:HA	2.04	0.57
10:d:62:SER:CB	10:d:67:ASP:HB3	2.35	0.57
10:d:115:PHE:CE2	10:d:140:GLU:HG2	2.40	0.57
11:f:20:ALA:O	11:f:24:THR:N	2.38	0.57
12:A:172:VAL:HG21	12:A:227:ARG:HB3	1.86	0.57
12:A:300:LEU:HA	12:A:303:ILE:HD12	1.85	0.57
17:F:167:GLU:OE1	17:F:167:GLU:N	2.38	0.57
20:H:184:LEU:O	20:H:188:ILE:HG13	2.04	0.57
22:J:96:LEU:HD12	29:Q:62:LYS:HG3	1.86	0.57
23:K:85:ALA:O	23:K:89:ILE:HG12	2.05	0.57
25:M:65:ARG:O	25:M:77:VAL:HG22	2.04	0.57
32:T:70:MET:HA	32:T:73:ASP:OD2	2.04	0.57
19:g:50:ILE:HD11	19:g:141:ILE:HG21	1.87	0.57
20:h:34:PRO:HD2	20:h:49:GLU:OE1	2.05	0.57
21:i:76:VAL:HG21	21:i:83:ALA:CB	2.34	0.57
23:k:186:HIS:O	23:k:189:MET:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:k:196:LYS:HA	23:k:199:LEU:CG	2.35	0.57
24:l:228:ASP:O	24:l:231:PRO:HD2	2.04	0.57
25:m:40:ARG:CB	25:m:45:VAL:HG22	2.34	0.57
26:n:45:ARG:HD2	26:n:52:THR:CB	2.34	0.57
31:s:57:PHE:HD2	31:s:60:ASP:H	1.51	0.57
1:U:236:LEU:HB3	1:U:245:ALA:HB2	1.86	0.57
1:U:592:GLY:CA	1:U:625:ILE:HA	2.35	0.57
1:U:634:PRO:HB2	1:U:667:GLU:OE1	2.04	0.57
1:U:772:TRP:CD1	1:U:775:LEU:HB2	2.40	0.57
2:V:168:GLN:HG3	2:V:220:PHE:CE2	2.40	0.57
3:W:75:TYR:O	3:W:78:LYS:HG2	2.05	0.57
4:X:397:TYR:CE1	6:Z:258:VAL:HG21	2.39	0.57
5:Y:77:ASN:HB3	5:Y:110:TYR:CZ	2.40	0.57
7:a:194:GLN:N	7:a:225:LEU:HD22	2.20	0.57
7:a:304:VAL:O	7:a:307:VAL:HG22	2.04	0.57
8:b:172:THR:HB	8:b:174:PRO:HD3	1.87	0.57
9:c:50:PRO:HG3	16:E:84:ARG:CG	2.34	0.57
10:d:82:TYR:CE1	10:d:91:GLU:HG3	2.37	0.57
10:d:195:THR:HA	10:d:205:LYS:NZ	2.19	0.57
11:f:376:PHE:CZ	11:f:800:LEU:HG	2.40	0.57
11:f:563:GLY:HA3	11:f:595:VAL:HG22	1.85	0.57
14:C:76:VAL:HG22	14:C:87:VAL:CG2	2.35	0.57
15:D:91:GLN:HG3	15:D:104:GLY:O	2.04	0.57
21:I:172:VAL:HG12	21:I:176:LYS:NZ	2.19	0.57
28:P:4:MET:HE1	28:P:104:TYR:HA	1.87	0.57
29:Q:49:GLU:O	29:Q:53:THR:HG23	2.03	0.57
29:Q:181:ARG:NH1	29:Q:190:ASP:OD1	2.38	0.57
30:R:137:GLY:CA	29:q:142:ILE:HD11	2.34	0.57
19:g:212:PRO:HG3	19:g:239:LEU:HD23	1.85	0.57
20:h:93:LEU:HA	20:h:96:GLN:OE1	2.03	0.57
21:i:47:ALA:HB3	21:i:212:GLU:HB3	1.85	0.57
23:k:108:THR:O	23:k:112:VAL:HG23	2.05	0.57
23:k:110:GLU:HG3	23:k:162:PHE:CE2	2.40	0.57
26:n:64:GLY:O	26:n:68:ILE:HG12	2.04	0.57
1:U:191:LYS:HD2	1:U:194:ARG:HH11	1.68	0.57
2:V:290:TYR:HE1	2:V:309:MET:HE1	1.69	0.57
5:Y:179:ARG:CG	5:Y:182:VAL:HG23	2.35	0.57
8:b:44:ASN:HB3	8:b:47:ASN:ND2	2.20	0.57
8:b:184:ILE:HB	8:b:187:PRO:O	2.05	0.57
9:c:207:TYR:O	9:c:209:LYS:NZ	2.26	0.57
11:f:171:GLN:HE21	11:f:179:VAL:HA	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:233:LEU:CD1	11:f:264:GLU:HA	2.34	0.57
12:A:210:LYS:HB3	12:A:312:ARG:NH2	2.20	0.57
13:B:153:ASN:O	13:B:157:HIS:HA	2.05	0.57
13:B:169:PRO:O	13:B:173:VAL:HG23	2.04	0.57
13:B:262:ASP:O	13:B:265:LYS:N	2.28	0.57
16:E:57:VAL:HB	17:F:131:THR:OG1	2.04	0.57
19:G:181:LYS:HA	19:G:184:LYS:HE3	1.86	0.57
20:H:66:GLU:OE2	20:H:91:ARG:NH2	2.38	0.57
22:J:56:GLU:N	22:J:56:GLU:OE1	2.37	0.57
25:M:109:LYS:HA	25:M:149:TYR:HE2	1.69	0.57
25:m:40:ARG:HB3	25:m:45:VAL:HG22	1.86	0.57
29:q:182:ILE:HG23	29:q:189:HIS:HB2	1.86	0.57
31:s:121:VAL:HB	31:s:133:ASP:O	2.04	0.57
32:t:20:VAL:CG2	32:t:120:SER:HB3	2.35	0.57
33:v:153:ARG:HD3	33:v:158:ARG:C	2.23	0.57
1:U:21:GLU:OE2	1:U:55:ARG:HB2	2.04	0.57
5:Y:45:VAL:HG12	5:Y:70:LEU:CD1	2.34	0.57
6:Z:138:TYR:HB3	6:Z:155:PHE:HB3	1.85	0.57
7:a:234:ILE:H	7:a:234:ILE:HD12	1.70	0.57
9:c:292:MET:O	9:c:296:ILE:HG12	2.05	0.57
11:f:185:LEU:O	11:f:189:LYS:HB3	2.04	0.57
11:f:612:LEU:HD21	11:f:636:ASP:CA	2.30	0.57
12:A:195:LEU:HB3	33:v:205:VAL:HG21	1.86	0.57
12:A:241:ILE:HD12	12:A:244:GLU:OE2	2.05	0.57
14:C:30:GLU:O	14:C:34:ILE:HG12	2.04	0.57
14:C:286:THR:HG23	14:C:289:ILE:O	2.04	0.57
15:D:345:PHE:CB	15:D:360:LEU:HD21	2.34	0.57
15:D:345:PHE:CE2	15:D:364:VAL:HG22	2.39	0.57
15:D:391:ARG:NE	15:D:393:ILE:O	2.38	0.57
17:F:185:TYR:CE2	17:F:243:GLN:HG3	2.40	0.57
17:F:368:ILE:HG23	17:F:371:ARG:HD2	1.86	0.57
22:J:42:VAL:CB	22:J:210:VAL:HG12	2.35	0.57
22:J:70:CYS:O	22:J:71:MET:HE2	2.04	0.57
22:J:121:SER:CB	22:J:124:ARG:HD3	2.34	0.57
22:J:122:ASN:O	22:J:124:ARG:HG3	2.05	0.57
29:Q:182:ILE:HG23	29:Q:189:HIS:HB2	1.86	0.57
31:S:44:TYR:O	31:S:51:VAL:HG13	2.04	0.57
32:T:141:TYR:HA	32:T:144:TYR:HD2	1.70	0.57
23:k:38:ILE:HG12	23:k:169:ALA:CB	2.34	0.57
32:t:70:MET:HA	32:t:73:ASP:OD2	2.04	0.57
1:U:28:ASN:HB3	1:U:59:PHE:HZ	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:141:CYS:HA	14:C:20:LEU:CD2	2.34	0.56
1:U:357:LYS:HE3	1:U:392:TRP:CE3	2.40	0.56
1:U:725:MET:HE3	9:c:182:GLY:HA3	1.77	0.56
2:V:37:MET:HE1	2:V:92:ARG:CD	2.35	0.56
2:V:92:ARG:NE	2:V:114:TYR:HB2	2.20	0.56
2:V:248:ALA:HB1	2:V:284:GLU:CD	2.30	0.56
5:Y:50:MET:CB	5:Y:114:ILE:HG23	2.32	0.56
9:c:98:MET:HA	9:c:101:GLN:HG2	1.87	0.56
10:d:164:THR:HA	10:d:167:ILE:CG1	2.34	0.56
11:f:253:LEU:HD22	11:f:257:ARG:HD3	1.86	0.56
11:f:707:LEU:HD23	11:f:742:ALA:HB2	1.85	0.56
12:A:158:ASP:OD1	12:A:161:VAL:HG22	2.05	0.56
12:A:215:PHE:O	12:A:342:GLU:HA	2.04	0.56
15:D:266:GLU:HA	15:D:311:THR:HG22	1.86	0.56
29:Q:17:SER:OG	29:Q:179:SER:OG	2.24	0.56
29:Q:177:THR:HG22	29:Q:195:SER:CB	2.35	0.56
29:Q:182:ILE:CG2	29:Q:189:HIS:HB2	2.35	0.56
21:i:43:VAL:HG12	21:i:216:LEU:HB3	1.87	0.56
21:i:115:CYS:HB3	21:i:154:GLY:O	2.05	0.56
21:i:172:VAL:HG12	21:i:176:LYS:NZ	2.19	0.56
24:l:148:CYS:SG	24:l:150:SER:OG	2.50	0.56
24:l:155:ASP:HB3	25:m:62:SER:CB	2.33	0.56
25:m:65:ARG:O	25:m:77:VAL:HG22	2.04	0.56
26:n:4:MET:HE3	26:n:6:VAL:HG23	1.87	0.56
29:q:181:ARG:NH1	29:q:190:ASP:OD1	2.38	0.56
1:U:9:ILE:C	1:U:11:LEU:H	2.12	0.56
1:U:424:ALA:HA	1:U:427:LEU:HD13	1.85	0.56
1:U:573:ASP:OD2	1:U:578:LEU:HD23	2.05	0.56
2:V:297:ALA:HA	2:V:301:GLU:HB2	1.86	0.56
2:V:305:ALA:HA	2:V:308:THR:HG22	1.86	0.56
2:V:353:LEU:HD12	2:V:356:SER:OG	2.04	0.56
3:W:335:SER:OG	3:W:336:PRO:HD3	2.05	0.56
5:Y:301:ILE:HD11	5:Y:342:ARG:HB3	1.87	0.56
6:Z:72:HIS:O	6:Z:76:GLU:HG2	2.06	0.56
9:c:32:TYR:HB2	9:c:68:ARG:HA	1.87	0.56
9:c:57:MET:HE1	9:c:141:VAL:HB	1.85	0.56
9:c:126:ASP:O	9:c:129:THR:HG22	2.05	0.56
9:c:257:LYS:O	9:c:261:GLU:HB2	2.05	0.56
11:f:43:GLN:HA	11:f:47:GLU:HB2	1.86	0.56
11:f:186:THR:HG23	11:f:197:ALA:CB	2.35	0.56
11:f:302:GLY:C	11:f:317:LEU:HD21	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:529:SER:HA	11:f:574:GLU:CG	2.35	0.56
11:f:796:LEU:HA	11:f:799:VAL:HG12	1.88	0.56
12:A:236:CYS:SG	12:A:267:LYS:HD3	2.45	0.56
12:A:300:LEU:O	12:A:303:ILE:HB	2.05	0.56
17:F:343:LEU:HB3	17:F:351:LYS:HZ1	1.70	0.56
19:G:127:GLN:HA	20:H:128:ARG:HH12	1.70	0.56
24:L:228:ASP:O	24:L:231:PRO:HD2	2.05	0.56
26:N:64:GLY:O	26:N:68:ILE:HG12	2.04	0.56
28:P:138:VAL:HB	28:P:146:MET:CE	2.35	0.56
19:g:37:LEU:O	19:g:170:VAL:HG23	2.05	0.56
21:i:147:LEU:HB2	21:i:159:TRP:O	2.05	0.56
22:j:42:VAL:CB	22:j:210:VAL:HG12	2.35	0.56
23:k:196:LYS:HA	23:k:199:LEU:HD21	1.87	0.56
27:o:48:THR:O	27:o:52:THR:HG23	2.04	0.56
29:q:102:LEU:HD13	29:q:103:LEU:N	2.20	0.56
29:q:182:ILE:CG2	29:q:189:HIS:HB2	2.35	0.56
1:U:78:LEU:O	1:U:82:LEU:HG	2.05	0.56
2:V:131:LEU:HD23	2:V:134:PHE:HD2	1.69	0.56
2:V:379:LEU:HD22	2:V:395:ILE:HD13	1.87	0.56
2:V:394:LEU:O	2:V:398:LEU:HB2	2.06	0.56
2:V:419:LEU:HB3	2:V:458:VAL:CG2	2.34	0.56
2:V:476:PHE:HD2	6:Z:257:MET:HB3	1.71	0.56
3:W:89:LEU:CD1	3:W:93:ARG:HB2	2.36	0.56
3:W:104:MET:HB3	3:W:123:ARG:HH22	1.69	0.56
3:W:112:VAL:HA	3:W:120:ILE:HD11	1.86	0.56
3:W:227:TYR:HB3	3:W:246:HIS:NE2	2.19	0.56
3:W:298:GLU:O	3:W:300:PRO:HD3	2.06	0.56
3:W:340:VAL:O	3:W:350:ARG:HB2	2.04	0.56
4:X:334:ASN:O	4:X:338:VAL:HG22	2.06	0.56
4:X:339:ILE:HA	4:X:342:PHE:CZ	2.41	0.56
5:Y:224:VAL:HG21	5:Y:256:VAL:CG1	2.35	0.56
5:Y:298:GLU:O	5:Y:302:HIS:HB2	2.05	0.56
5:Y:314:LEU:O	5:Y:354:VAL:N	2.20	0.56
7:a:122:LYS:HE3	7:a:130:VAL:CG1	2.35	0.56
7:a:198:PHE:CE2	7:a:202:LEU:HD11	2.41	0.56
7:a:269:LEU:O	7:a:273:GLN:HG3	2.05	0.56
7:a:272:ILE:HA	7:a:275:LEU:CB	2.35	0.56
9:c:38:LEU:HD23	9:c:42:LEU:HD23	1.86	0.56
9:c:96:LEU:O	9:c:100:LYS:HG3	2.05	0.56
10:d:91:GLU:HG2	10:d:92:SER:N	2.20	0.56
11:f:185:LEU:O	11:f:189:LYS:CB	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:373:ALA:CB	11:f:744:MET:HA	2.27	0.56
11:f:403:LYS:HG3	11:f:406:GLY:H	1.69	0.56
11:f:556:ARG:NH2	11:f:790:GLN:HG2	2.17	0.56
11:f:569:LYS:HE2	11:f:571:GLU:HG2	1.87	0.56
11:f:679:LEU:HD22	11:f:681:TYR:CE1	2.41	0.56
11:f:680:ARG:NH2	11:f:762:VAL:HG23	2.20	0.56
11:f:683:GLU:HB2	11:f:684:PRO:HD2	1.87	0.56
12:A:247:GLN:HE22	12:A:256:MET:HE3	1.71	0.56
12:A:281:GLY:HA3	12:A:299:MET:HG3	1.86	0.56
12:A:404:ALA:N	13:B:214:MET:SD	2.78	0.56
14:C:42:LEU:O	14:C:46:GLN:HG2	2.05	0.56
16:E:204:VAL:HB	17:F:261:ILE:HD12	1.87	0.56
16:E:247:THR:O	16:E:250:ASP:HB2	2.05	0.56
17:F:342:LEU:O	17:F:348:LEU:HD13	2.05	0.56
19:G:212:PRO:HG3	19:G:239:LEU:HD23	1.85	0.56
20:H:34:PRO:HD2	20:H:49:GLU:OE1	2.05	0.56
21:I:109:GLN:OE1	29:Q:71:ASN:ND2	2.31	0.56
22:J:69:VAL:HG12	22:J:71:MET:HE3	1.87	0.56
23:K:110:GLU:HB2	23:K:154:PHE:CZ	2.40	0.56
25:M:240:LYS:HA	25:M:240:LYS:HE3	1.87	0.56
30:R:177:TYR:HE1	30:R:186:ARG:HG3	1.70	0.56
19:g:126:THR:HG22	20:h:128:ARG:NH2	2.20	0.56
20:h:66:GLU:OE2	20:h:91:ARG:NH2	2.38	0.56
22:j:69:VAL:HG12	22:j:71:MET:HE3	1.87	0.56
24:l:44:ALA:HB3	24:l:215:VAL:CG1	2.35	0.56
24:l:47:VAL:HG22	24:l:212:ILE:HG13	1.87	0.56
24:l:68:ASN:HA	24:l:220:GLU:OE2	2.05	0.56
25:m:189:ILE:HA	25:m:192:GLU:CG	2.35	0.56
30:r:177:TYR:HE1	30:r:186:ARG:HG3	1.70	0.56
31:s:28:ARG:NE	31:s:190:GLY:HA2	2.20	0.56
1:U:520:MET:HB3	1:U:523:SER:OG	2.06	0.56
2:V:66:GLU:O	2:V:70:VAL:HG23	2.06	0.56
2:V:280:ALA:HB3	2:V:285:TRP:H	1.69	0.56
3:W:409:LEU:CD2	4:X:344:ARG:HG2	2.34	0.56
5:Y:37:VAL:HA	5:Y:40:GLU:HB3	1.86	0.56
7:a:93:ALA:O	7:a:97:LEU:HB2	2.04	0.56
9:c:113:HIS:O	9:c:145:VAL:HG12	2.04	0.56
10:d:62:SER:HB3	10:d:67:ASP:HB3	1.87	0.56
10:d:111:ARG:O	10:d:115:PHE:HB2	2.05	0.56
11:f:94:LYS:CB	11:f:109:ILE:HG21	2.31	0.56
11:f:110:TYR:CD2	11:f:133:MET:HE2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:403:LYS:O	11:f:406:GLY:N	2.38	0.56
11:f:754:LYS:O	11:f:754:LYS:HD3	2.05	0.56
12:A:71:GLY:O	12:A:72:LEU:HD22	2.06	0.56
13:B:245:ALA:HB1	13:B:279:PRO:O	2.04	0.56
13:B:362:LYS:HG3	13:B:384:ILE:HG21	1.87	0.56
21:I:135:LEU:HD13	21:I:162:THR:HG21	1.87	0.56
21:I:147:LEU:HB2	21:I:159:TRP:O	2.05	0.56
23:K:28:ILE:CD1	23:K:158:PRO:HD2	2.35	0.56
25:M:51:LYS:NZ	25:M:63:ASN:OD1	2.24	0.56
26:N:24:SER:HB3	32:t:141:TYR:OH	2.04	0.56
26:N:44:CYS:HG	26:N:99:ILE:HB	1.70	0.56
32:T:20:VAL:CG2	32:T:120:SER:HB3	2.35	0.56
22:j:122:ASN:O	22:j:124:ARG:HG3	2.05	0.56
23:k:85:ALA:O	23:k:89:ILE:HG12	2.05	0.56
25:m:175:GLU:HA	25:m:178:LYS:CG	2.35	0.56
29:q:177:THR:HG22	29:q:195:SER:CB	2.35	0.56
30:r:77:ALA:HB2	30:r:112:TYR:OH	2.05	0.56
1:U:141:CYS:HA	14:C:20:LEU:HD22	1.87	0.56
1:U:436:ALA:HB1	1:U:473:VAL:CG2	2.35	0.56
1:U:571:CYS:HB3	1:U:601:ARG:HH22	1.71	0.56
2:V:482:PHE:CE2	5:Y:377:LEU:HG	2.40	0.56
3:W:308:LEU:O	3:W:312:MET:CE	2.53	0.56
5:Y:66:ASP:HB3	5:Y:70:LEU:HD12	1.87	0.56
5:Y:263:LEU:HA	5:Y:271:PHE:CE1	2.41	0.56
6:Z:112:MET:HG3	6:Z:119:SER:CB	2.35	0.56
7:a:26:GLU:HA	7:a:29:TYR:HE1	1.70	0.56
7:a:231:GLN:HA	7:a:234:ILE:CD1	2.35	0.56
8:b:173:VAL:HG13	8:b:173:VAL:O	2.04	0.56
10:d:122:LEU:HD11	10:d:126:ASP:OD2	2.05	0.56
11:f:268:LEU:O	11:f:272:LEU:HG	2.05	0.56
11:f:398:TRP:HD1	11:f:401:LYS:HE3	1.70	0.56
11:f:610:GLN:HA	13:B:74:MET:HE3	1.87	0.56
11:f:634:LYS:HB2	11:f:670:MET:HE1	1.86	0.56
13:B:264:PRO:HB3	13:B:311:GLU:CB	2.36	0.56
25:M:175:GLU:HA	25:M:178:LYS:CG	2.35	0.56
27:O:123:PRO:HG2	27:O:124:TYR:CD1	2.41	0.56
22:j:8:THR:HG22	22:j:16:LEU:HD22	1.88	0.56
29:q:108:ASP:N	29:q:112:GLY:O	2.25	0.56
1:U:501:LEU:HD22	1:U:516:LEU:HD22	1.86	0.56
1:U:521:LEU:HD13	1:U:554:LEU:HG	1.87	0.56
1:U:599:ILE:O	1:U:603:LEU:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:892:LEU:HD11	1:U:906:LEU:HD23	1.87	0.56
2:V:92:ARG:HG3	2:V:114:TYR:CD2	2.40	0.56
2:V:257:ASN:OD1	2:V:260:HIS:HB3	2.06	0.56
3:W:127:THR:OG1	3:W:147:LYS:HE2	2.05	0.56
3:W:140:ILE:HG13	3:W:141:GLU:H	1.69	0.56
3:W:313:GLU:HB2	3:W:314:LEU:HD13	1.88	0.56
3:W:379:ALA:HB2	3:W:386:VAL:HG12	1.88	0.56
5:Y:42:MET:O	5:Y:46:ARG:HB2	2.05	0.56
5:Y:179:ARG:HE	5:Y:211:TYR:HB2	1.71	0.56
5:Y:292:TYR:OH	18:e:54:ASN:O	2.16	0.56
6:Z:17:LEU:CD2	9:c:36:LEU:HB3	2.35	0.56
6:Z:174:HIS:ND1	9:c:154:LYS:HA	2.20	0.56
8:b:5:SER:CB	8:b:64:LEU:HD21	2.35	0.56
8:b:174:PRO:N	8:b:175:PRO:CD	2.69	0.56
11:f:39:LYS:O	11:f:43:GLN:HB2	2.06	0.56
11:f:46:SER:CB	11:f:56:LEU:HB2	2.35	0.56
11:f:292:LYS:CA	11:f:296:PHE:HB2	2.35	0.56
11:f:298:LEU:HG	11:f:301:HIS:CD2	2.41	0.56
11:f:339:ILE:HG21	33:v:210:ILE:HD13	1.88	0.56
11:f:529:SER:CA	11:f:574:GLU:HG3	2.34	0.56
12:A:335:GLY:N	12:A:338:ASP:OD1	2.34	0.56
12:A:413:VAL:HA	12:A:416:VAL:CG2	2.35	0.56
14:C:351:MET:HE2	14:C:387:VAL:HA	1.87	0.56
15:D:102:ILE:HG23	15:D:111:TYR:O	2.05	0.56
16:E:109:ARG:O	16:E:111:LEU:HG	2.05	0.56
17:F:124:ILE:HD11	17:F:160:ILE:HD11	1.87	0.56
21:I:73:ALA:O	21:I:137:ILE:HG13	2.05	0.56
23:K:108:THR:O	23:K:112:VAL:HG23	2.05	0.56
23:K:212:ALA:HB2	23:K:235:GLU:CG	2.36	0.56
28:P:53:LEU:HD23	28:P:107:PRO:HA	1.86	0.56
30:R:77:ALA:HB2	30:R:112:TYR:OH	2.05	0.56
32:T:4:PRO:HB3	32:T:107:TRP:CD1	2.40	0.56
21:i:84:ASN:O	21:i:87:THR:OG1	2.20	0.56
21:i:135:LEU:HD13	21:i:162:THR:HG21	1.87	0.56
21:i:219:GLU:HG3	21:i:220:ASN:H	1.70	0.56
24:l:157:ARG:HB3	25:m:59:GLU:OE2	2.06	0.56
28:p:4:MET:HE1	28:p:104:TYR:HA	1.87	0.56
1:U:756:HIS:HD2	1:U:759:SER:HB2	1.70	0.56
2:V:168:GLN:HA	2:V:172:VAL:CG2	2.36	0.56
3:W:157:GLY:HA2	3:W:161:GLU:CB	2.35	0.56
4:X:162:ASP:OD2	4:X:165:LEU:N	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:b:173:VAL:O	8:b:173:VAL:HG22	2.04	0.56
9:c:57:MET:HB3	9:c:110:GLY:C	2.31	0.56
10:d:135:HIS:O	10:d:139:LEU:HB2	2.06	0.56
10:d:168:ASP:HA	10:d:171:LEU:HD12	1.87	0.56
11:f:486:GLY:HA2	11:f:525:ILE:CG1	2.33	0.56
11:f:612:LEU:HD12	11:f:632:LYS:CD	2.35	0.56
14:C:229:ARG:HB2	14:C:233:GLU:OE1	2.06	0.56
15:D:254:ALA:HB2	15:D:262:ILE:HD11	1.88	0.56
17:F:228:PRO:HD2	17:F:231:THR:HG21	1.88	0.56
21:I:115:CYS:HB3	21:I:154:GLY:O	2.05	0.56
23:K:135:ARG:HB2	23:K:136:PRO:HD2	1.88	0.56
24:L:22:ILE:HD12	24:L:22:ILE:H	1.70	0.56
24:L:171:TYR:HA	24:L:174:ARG:HH11	1.71	0.56
24:L:193:ARG:O	24:L:196:ARG:HG2	2.06	0.56
29:Q:102:LEU:HD13	29:Q:103:LEU:N	2.20	0.56
23:k:90:ASP:O	23:k:94:VAL:HG23	2.06	0.56
23:k:135:ARG:HB2	23:k:136:PRO:HD2	1.88	0.56
27:o:3:ILE:HG22	27:o:16:ALA:HB2	1.86	0.56
30:r:98:GLY:HA2	30:r:115:ASP:HA	1.87	0.56
32:t:49:THR:HB	32:t:85:PRO:HG3	1.88	0.56
1:U:144:ASP:HB2	14:C:20:LEU:HD23	1.87	0.56
1:U:341:PHE:HD1	1:U:881:PRO:HB2	1.71	0.56
2:V:25:GLU:HA	2:V:28:PRO:HD2	1.88	0.56
3:W:45:GLU:HA	3:W:96:GLN:OE1	2.06	0.56
3:W:187:LEU:HA	3:W:190:MET:HE3	1.87	0.56
3:W:341:PHE:HE1	3:W:351:TRP:HA	1.71	0.56
4:X:157:LEU:HD11	4:X:169:VAL:HG11	1.88	0.56
8:b:34:ASN:O	8:b:38:HIS:ND1	2.18	0.56
9:c:55:GLY:HA3	9:c:112:TYR:CZ	2.41	0.56
11:f:479:LEU:CD2	11:f:797:LEU:HG	2.36	0.56
11:f:541:THR:OG1	11:f:558:LEU:HD13	2.06	0.56
11:f:567:LEU:HD13	11:f:598:CYS:HA	1.86	0.56
11:f:650:GLN:HG3	13:B:71:TYR:CD2	2.41	0.56
11:f:766:GLN:CD	11:f:807:ARG:HH12	2.09	0.56
11:f:827:PRO:HA	11:f:862:ILE:CG1	2.24	0.56
13:B:99:VAL:O	13:B:103:ARG:HG2	2.05	0.56
14:C:376:VAL:HA	15:D:194:ILE:HD11	1.86	0.56
15:D:154:LEU:HD13	15:D:155:THR:O	2.06	0.56
15:D:360:LEU:O	15:D:364:VAL:HG23	2.04	0.56
19:G:50:ILE:HD11	19:G:141:ILE:HG21	1.87	0.56
19:G:132:ARG:HD3	25:M:124:LEU:CD2	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:K:101:PHE:HA	30:R:57:ARG:HH21	1.70	0.56
23:K:199:LEU:HA	23:K:202:LEU:CD1	2.35	0.56
24:L:44:ALA:HB3	24:L:215:VAL:CG1	2.35	0.56
25:M:152:ASP:OD1	25:M:156:VAL:N	2.38	0.56
21:i:68:LEU:HD11	21:i:72:MET:CB	2.34	0.56
21:i:124:PHE:HB2	22:j:123:GLY:O	2.06	0.56
23:k:28:ILE:CD1	23:k:158:PRO:HD2	2.35	0.56
24:l:22:ILE:H	24:l:22:ILE:HD12	1.70	0.56
27:o:114:TYR:HB3	27:o:115:PRO:HD2	1.87	0.56
27:o:143:ARG:O	27:o:146:MET:HG3	2.06	0.56
30:r:76:VAL:HG12	30:r:112:TYR:HD2	1.70	0.56
1:U:377:HIS:O	1:U:411:ILE:HA	2.04	0.56
1:U:584:TYR:HE2	1:U:768:GLN:NE2	2.04	0.56
3:W:36:LYS:HG3	3:W:86:ASN:HD22	1.71	0.56
3:W:167:GLN:HG3	3:W:168:GLU:HG3	1.87	0.56
3:W:274:VAL:O	3:W:283:GLN:NE2	2.39	0.56
3:W:408:ARG:HH21	4:X:342:PHE:HB3	1.71	0.56
5:Y:198:ALA:HB1	5:Y:230:ALA:CB	2.35	0.56
6:Z:249:PHE:CE2	9:c:306:THR:HG21	2.40	0.56
6:Z:252:LYS:O	6:Z:255:ASP:HB2	2.06	0.56
7:a:134:THR:O	7:a:138:VAL:HG23	2.06	0.56
9:c:192:LEU:HB3	9:c:196:LEU:HD13	1.88	0.56
10:d:207:THR:HG23	10:d:211:LYS:HD3	1.88	0.56
11:f:107:LYS:HA	11:f:111:GLU:CB	2.30	0.56
11:f:198:HIS:HA	11:f:201:GLU:HB2	1.87	0.56
11:f:198:HIS:O	11:f:202:HIS:HB2	2.05	0.56
11:f:529:SER:HA	11:f:574:GLU:HG3	1.87	0.56
12:A:248:LYS:HE2	12:A:249:TYR:CE1	2.41	0.56
13:B:362:LYS:HA	13:B:384:ILE:HD13	1.86	0.56
13:B:426:VAL:HA	13:B:429:LYS:HD2	1.86	0.56
14:C:376:VAL:HG21	15:D:193:GLN:NE2	2.21	0.56
16:E:175:PRO:O	16:E:180:LYS:NZ	2.39	0.56
17:F:184:GLN:HG2	17:F:243:GLN:OE1	2.06	0.56
21:I:93:ILE:O	21:I:96:ARG:HG2	2.06	0.56
21:I:219:GLU:HG3	21:I:220:ASN:H	1.70	0.56
23:K:146:VAL:HA	23:K:151:PRO:HA	1.88	0.56
24:L:173:GLU:HG3	25:M:56:LYS:NZ	2.21	0.56
25:M:211:LEU:HG	25:M:211:LEU:O	2.05	0.56
26:N:4:MET:HE3	26:N:6:VAL:HG23	1.87	0.56
32:T:1:THR:N	32:T:105:PRO:O	2.39	0.56
20:h:159:LYS:HE2	21:i:56:LEU:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:j:114:LEU:O	22:j:118:TYR:HB2	2.06	0.56
22:j:173:GLU:HA	22:j:176:TYR:CE1	2.41	0.56
23:k:212:ALA:HB2	23:k:235:GLU:CG	2.36	0.56
24:l:193:ARG:O	24:l:196:ARG:HG2	2.06	0.56
1:U:101:ILE:HD12	1:U:137:MET:HE3	1.87	0.56
1:U:549:ALA:HB1	1:U:581:SER:HB2	1.87	0.56
2:V:63:SER:O	2:V:66:GLU:HB3	2.06	0.56
3:W:279:PHE:HA	3:W:283:GLN:OE1	2.06	0.56
3:W:324:TYR:O	3:W:327:GLU:HG2	2.06	0.56
3:W:326:MET:O	3:W:330:LYS:HB2	2.05	0.56
5:Y:175:ASP:C	5:Y:176:ARG:HD2	2.31	0.56
5:Y:196:GLN:O	5:Y:200:LEU:HB2	2.06	0.56
9:c:32:TYR:O	9:c:69:VAL:HG12	2.06	0.56
10:d:207:THR:CA	10:d:211:LYS:HD3	2.36	0.56
11:f:50:LYS:O	12:A:400:ARG:HD3	2.05	0.56
11:f:178:LYS:O	11:f:181:ARG:HB3	2.06	0.56
11:f:205:CYS:HA	11:f:208:LEU:HB2	1.87	0.56
11:f:489:TYR:CD2	11:f:494:ARG:HD3	2.41	0.56
13:B:135:ILE:HG22	13:B:159:VAL:CB	2.36	0.56
14:C:187:LEU:HB3	14:C:314:LYS:HB3	1.87	0.56
14:C:215:SER:O	14:C:251:ILE:HD13	2.06	0.56
15:D:89:ILE:HD13	16:E:70:ILE:HG23	1.88	0.56
15:D:254:ALA:CB	15:D:262:ILE:HD11	2.35	0.56
21:I:171:ALA:O	21:I:175:LEU:HG	2.06	0.56
23:K:196:LYS:HA	23:K:199:LEU:HD21	1.87	0.56
23:K:217:LEU:HD12	23:K:229:PHE:CE1	2.41	0.56
24:L:41:LYS:HG3	24:L:180:MET:O	2.06	0.56
24:L:168:ALA:HB2	24:L:198:THR:CG2	2.36	0.56
25:M:86:SER:O	25:M:90:ILE:HG12	2.06	0.56
30:R:98:GLY:HA2	30:R:115:ASP:HA	1.87	0.56
21:i:93:ILE:O	21:i:96:ARG:HG2	2.06	0.56
24:l:40:SER:N	24:l:43:HIS:O	2.35	0.56
24:l:231:PRO:O	24:l:234:GLU:HG2	2.06	0.56
27:o:31:CYS:SG	27:o:32:SER:N	2.79	0.56
32:t:51:LEU:HD12	32:t:111:VAL:O	2.05	0.56
32:t:89:HIS:HE1	32:t:131:ALA:HB1	1.71	0.56
32:t:126:ASP:OD1	32:t:127:MET:N	2.39	0.56
1:U:205:TYR:CB	1:U:212:ASP:HB2	2.31	0.55
2:V:69:THR:HA	2:V:72:LEU:HB3	1.87	0.55
2:V:128:ARG:HB2	2:V:162:GLU:HG3	1.88	0.55
2:V:358:MET:HB2	2:V:359:PRO:HD3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:260:SER:O	3:W:264:GLN:HB2	2.05	0.55
5:Y:48:ASN:O	5:Y:50:MET:HG2	2.07	0.55
5:Y:146:ARG:CZ	5:Y:211:TYR:HD1	2.17	0.55
5:Y:164:ALA:CA	5:Y:168:ILE:HB	2.33	0.55
7:a:54:ASP:HA	7:a:57:ILE:HG22	1.88	0.55
7:a:374:ILE:HG12	10:d:251:ARG:CG	2.35	0.55
8:b:52:ILE:HD12	8:b:59:GLU:O	2.06	0.55
11:f:290:VAL:HG23	11:f:320:ILE:HD11	1.87	0.55
11:f:409:SER:HB3	11:f:800:LEU:HD21	1.86	0.55
11:f:585:GLU:OE2	11:f:588:ARG:N	2.32	0.55
13:B:49:LEU:HD22	13:B:50:PRO:CD	2.36	0.55
13:B:246:THR:HG21	13:B:277:HIS:CD2	2.41	0.55
13:B:339:PRO:HA	13:B:342:ILE:CG1	2.36	0.55
13:B:401:GLU:HB3	13:B:422:SER:OG	2.06	0.55
19:G:10:ASP:N	19:G:15:ILE:HD11	2.21	0.55
19:G:110:PRO:HB2	19:G:113:MET:HG2	1.88	0.55
25:M:211:LEU:HD11	25:M:213:LEU:HG	1.87	0.55
27:O:3:ILE:HG22	27:O:16:ALA:HB2	1.86	0.55
32:T:126:ASP:OD1	32:T:127:MET:N	2.39	0.55
22:j:26:VAL:HA	22:j:75:GLY:HA2	1.88	0.55
23:k:110:GLU:HB2	23:k:154:PHE:CZ	2.40	0.55
23:k:169:ALA:O	23:k:174:SER:OG	2.23	0.55
23:k:217:LEU:HD12	23:k:229:PHE:CE1	2.41	0.55
24:l:150:SER:OG	24:l:152:ASN:ND2	2.39	0.55
24:l:233:LEU:O	24:l:236:LEU:HD13	2.06	0.55
25:m:192:GLU:O	25:m:195:LYS:HG2	2.06	0.55
25:m:233:GLU:OE2	25:m:236:GLU:HB2	2.06	0.55
28:p:138:VAL:HB	28:p:146:MET:CE	2.35	0.55
32:t:1:THR:N	32:t:105:PRO:O	2.39	0.55
1:U:21:GLU:OE2	1:U:55:ARG:NE	2.39	0.55
1:U:127:ASP:HB3	1:U:130:LEU:CB	2.36	0.55
1:U:802:TYR:O	1:U:877:LEU:HA	2.06	0.55
2:V:125:ASN:OD1	2:V:127:THR:HG23	2.07	0.55
2:V:466:ILE:O	2:V:471:GLU:HB3	2.06	0.55
3:W:340:VAL:HA	3:W:350:ARG:CD	2.31	0.55
3:W:432:LEU:HD11	9:c:309:PHE:HD2	1.71	0.55
4:X:268:GLN:HA	4:X:271:VAL:HG22	1.88	0.55
6:Z:131:LEU:HD23	6:Z:131:LEU:H	1.71	0.55
8:b:31:ASP:HA	8:b:34:ASN:OD1	2.06	0.55
10:d:52:ARG:NH1	10:d:91:GLU:HB2	2.21	0.55
11:f:7:ASP:C	11:f:10:PRO:HD2	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:403:LYS:HG3	11:f:406:GLY:N	2.21	0.55
11:f:473:ASN:HA	11:f:509:LYS:NZ	2.22	0.55
12:A:265:ARG:NH1	12:A:312:ARG:HA	2.21	0.55
13:B:152:LEU:HD23	13:B:159:VAL:HA	1.87	0.55
13:B:407:LEU:HD22	14:C:174:LEU:HB3	1.87	0.55
13:B:407:LEU:CD2	14:C:174:LEU:HD22	2.36	0.55
14:C:61:GLU:HG2	14:C:65:LEU:CD1	2.36	0.55
15:D:374:ASP:O	15:D:377:SER:OG	2.20	0.55
16:E:172:LEU:HD23	16:E:299:ILE:HB	1.89	0.55
24:L:168:ALA:HB2	24:L:198:THR:HG21	1.88	0.55
25:M:195:LYS:HB3	25:M:195:LYS:NZ	2.20	0.55
32:T:89:HIS:HE1	32:T:131:ALA:HB1	1.71	0.55
22:j:11:SER:OG	22:j:15:HIS:N	2.25	0.55
23:k:35:SER:HA	23:k:53:ARG:NH2	2.22	0.55
23:k:99:HIS:HE1	23:k:105:GLU:HG3	1.71	0.55
27:o:49:ALA:O	27:o:52:THR:OG1	2.21	0.55
32:t:4:PRO:HB3	32:t:107:TRP:CD1	2.40	0.55
33:v:209:LYS:HG3	33:v:210:ILE:HG13	1.87	0.55
1:U:98:GLU:HA	1:U:101:ILE:CD1	2.36	0.55
1:U:165:LYS:O	1:U:169:GLU:HB3	2.07	0.55
1:U:246:TYR:OH	1:U:911:ILE:HG23	2.06	0.55
1:U:347:ASN:O	1:U:741:GLY:HA2	2.05	0.55
1:U:423:MET:HE1	1:U:445:ALA:CB	2.36	0.55
1:U:580:ARG:HG3	1:U:614:VAL:CB	2.31	0.55
2:V:155:ALA:C	2:V:158:PRO:HD2	2.32	0.55
2:V:319:HIS:CE1	18:e:1:MET:HG2	2.41	0.55
2:V:467:TYR:CZ	5:Y:362:LYS:HG2	2.42	0.55
2:V:494:MET:HG2	6:Z:278:ASN:HD22	1.71	0.55
3:W:37:GLU:HB2	3:W:44:ILE:HD11	1.88	0.55
3:W:231:ILE:HA	3:W:234:ASP:HB2	1.88	0.55
4:X:397:TYR:HB3	5:Y:365:GLN:HB3	1.88	0.55
5:Y:185:GLY:HA3	5:Y:213:LEU:HD21	1.87	0.55
6:Z:212:LEU:HD21	7:a:349:MET:HE3	1.86	0.55
10:d:103:LEU:HD22	10:d:133:ILE:HG23	1.88	0.55
11:f:51:GLN:NE2	11:f:54:ASP:HA	2.21	0.55
11:f:177:GLU:OE2	11:f:837:LEU:HA	2.06	0.55
11:f:287:ASP:HA	11:f:316:ASP:OD2	2.07	0.55
11:f:446:LEU:CD1	11:f:483:PHE:HB3	2.37	0.55
11:f:811:LEU:HA	11:f:878:GLU:CB	2.35	0.55
12:A:312:ARG:HD2	12:A:315:ILE:HB	1.87	0.55
12:A:346:PRO:HB3	12:A:350:GLY:HA3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:C:201:ARG:HH11	14:C:211:PHE:HD2	1.52	0.55
15:D:174:LYS:HG2	15:D:215:LEU:CD1	2.36	0.55
15:D:355:SER:OG	15:D:395:LEU:HD23	2.06	0.55
25:M:228:PRO:CB	25:M:231:ILE:HB	2.36	0.55
26:N:76:VAL:HB	26:N:110:GLN:OE1	2.06	0.55
27:O:143:ARG:O	27:O:146:MET:HG3	2.06	0.55
24:l:109:VAL:HG21	24:l:145:PHE:CD2	2.35	0.55
1:U:176:MET:HG2	1:U:179:TYR:OH	2.06	0.55
2:V:104:THR:O	2:V:108:LEU:HG	2.07	0.55
5:Y:13:LYS:NZ	5:Y:112:CYS:SG	2.79	0.55
9:c:127:ILE:CD1	9:c:199:HIS:HB3	2.37	0.55
9:c:234:TYR:HA	9:c:237:HIS:HB3	1.89	0.55
11:f:383:ALA:HA	11:f:416:MET:O	2.07	0.55
11:f:483:PHE:HA	11:f:521:ALA:HB1	1.87	0.55
12:A:63:THR:HG21	13:B:79:ILE:HD13	1.88	0.55
12:A:177:VAL:HG11	12:A:225:CYS:SG	2.47	0.55
12:A:194:PRO:HB3	12:A:201:PHE:HE2	1.72	0.55
12:A:209:PRO:CG	17:F:405:MET:HE1	2.36	0.55
12:A:262:GLU:O	12:A:266:THR:HG23	2.05	0.55
14:C:172:PRO:HA	14:C:182:GLN:NE2	2.12	0.55
16:E:177:GLY:HA3	17:F:344:ARG:HD2	1.87	0.55
16:E:232:MET:HB2	16:E:277:MET:SD	2.45	0.55
17:F:196:GLN:HG2	33:v:164:THR:CG2	2.30	0.55
17:F:258:GLN:HG3	17:F:263:ASP:HB3	1.88	0.55
20:H:26:LEU:HD23	20:H:151:PRO:HG2	1.88	0.55
21:I:119:GLN:NE2	22:J:79:ASP:OD1	2.39	0.55
22:J:26:VAL:HA	22:J:75:GLY:HA2	1.88	0.55
22:J:173:GLU:HA	22:J:176:TYR:CE1	2.41	0.55
23:K:95:GLU:OE1	23:K:115:ALA:HB1	2.07	0.55
23:K:117:SER:HB2	24:L:82:ARG:HH12	1.70	0.55
24:L:68:ASN:HA	24:L:220:GLU:OE2	2.05	0.55
24:L:72:ILE:HG22	24:L:134:ILE:HG12	1.89	0.55
24:L:107:ARG:O	24:L:111:LEU:HG	2.07	0.55
25:M:20:VAL:O	25:M:24:GLU:HG2	2.06	0.55
31:S:28:ARG:NE	31:S:190:GLY:HA2	2.20	0.55
32:T:51:LEU:HD12	32:T:111:VAL:O	2.05	0.55
19:g:54:LYS:HD3	19:g:216:GLU:OE2	2.06	0.55
23:k:170:ILE:HA	23:k:174:SER:OG	2.06	0.55
24:l:168:ALA:HB2	24:l:198:THR:HG21	1.88	0.55
32:t:72:ILE:O	32:t:76:LEU:HG	2.07	0.55
2:V:67:LEU:HA	2:V:70:VAL:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:217:ILE:HA	4:X:220:ALA:HB2	1.88	0.55
5:Y:147:ILE:HA	5:Y:150:PHE:CD2	2.41	0.55
5:Y:297:ARG:NH1	18:e:52:PHE:HA	2.21	0.55
8:b:145:GLU:HG2	8:b:145:GLU:O	2.07	0.55
10:d:168:ASP:HA	10:d:171:LEU:CD1	2.37	0.55
11:f:298:LEU:HG	11:f:301:HIS:NE2	2.21	0.55
11:f:718:ASP:CG	11:f:760:PHE:CD1	2.83	0.55
12:A:113:ILE:HD12	12:A:123:VAL:CG2	2.37	0.55
15:D:234:GLU:OE1	15:D:234:GLU:N	2.33	0.55
15:D:403:TYR:O	15:D:407:ILE:HB	2.07	0.55
16:E:91:LYS:HD2	16:E:110:TYR:OH	2.07	0.55
16:E:198:VAL:HG21	16:E:218:MET:HE1	1.89	0.55
16:E:205:ASP:OD2	16:E:210:GLU:HB3	2.07	0.55
19:G:30:LYS:HE2	25:M:17:ASP:C	2.30	0.55
22:J:8:THR:CG2	22:J:16:LEU:HD22	2.37	0.55
23:K:99:HIS:HE1	23:K:105:GLU:HG3	1.70	0.55
25:M:240:LYS:HZ2	25:M:240:LYS:CA	2.19	0.55
32:T:45:VAL:HG12	32:T:46:ASN:H	1.71	0.55
21:i:71:ASP:O	21:i:138:GLY:HA2	2.07	0.55
23:k:101:PHE:HA	30:r:57:ARG:NH2	2.20	0.55
24:l:41:LYS:HG3	24:l:180:MET:O	2.06	0.55
29:q:17:SER:OG	29:q:179:SER:OG	2.24	0.55
30:r:44:THR:CG2	30:r:100:MET:HB2	2.35	0.55
31:s:155:PHE:HA	31:s:158:MET:HE2	1.89	0.55
32:t:43:MET:SD	32:t:64:LYS:HG3	2.47	0.55
1:U:601:ARG:HA	1:U:604:HIS:HB3	1.89	0.55
2:V:109:ASN:O	2:V:113:LEU:HG	2.06	0.55
3:W:99:GLN:HA	3:W:102:ALA:HB3	1.88	0.55
3:W:128:LEU:HD22	3:W:147:LYS:HZ3	1.71	0.55
3:W:221:LYS:CA	3:W:225:LYS:HD3	2.37	0.55
3:W:341:PHE:HA	3:W:347:GLY:CA	2.36	0.55
4:X:143:TYR:O	4:X:147:LEU:HD13	2.06	0.55
4:X:260:MET:HE1	4:X:322:HIS:HD2	1.71	0.55
5:Y:147:ILE:HA	5:Y:150:PHE:CG	2.41	0.55
6:Z:6:VAL:HA	6:Z:46:LYS:O	2.06	0.55
6:Z:121:LEU:CD2	6:Z:138:TYR:HB2	2.30	0.55
7:a:101:ARG:CG	7:a:111:VAL:HG23	2.36	0.55
7:a:174:LYS:HG2	7:a:178:ARG:NH1	2.22	0.55
8:b:141:ILE:CA	8:b:171:VAL:HG21	2.37	0.55
10:d:8:GLU:HG2	10:d:18:LYS:HE3	1.88	0.55
10:d:47:GLN:O	10:d:51:ALA:CB	2.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d:52:ARG:HG3	10:d:81:TYR:CD2	2.39	0.55
10:d:193:GLU:HA	10:d:197:ILE:CD1	2.34	0.55
11:f:529:SER:CB	11:f:574:GLU:CG	2.76	0.55
11:f:831:VAL:HB	11:f:833:PHE:CE1	2.42	0.55
12:A:52:ILE:HD12	12:A:55:LEU:HD23	1.89	0.55
12:A:249:TYR:CD2	17:F:259:MET:HE3	2.41	0.55
12:A:303:ILE:HG23	12:A:336:ARG:NH2	2.22	0.55
13:B:294:ARG:O	13:B:294:ARG:HG2	2.06	0.55
15:D:127:ASN:N	15:D:127:ASN:OD1	2.40	0.55
15:D:145:PRO:HB2	15:D:256:GLU:CG	2.36	0.55
15:D:270:ILE:HG22	15:D:289:LEU:CD2	2.37	0.55
17:F:198:LEU:HD21	17:F:202:ILE:HD12	1.89	0.55
19:G:54:LYS:HD3	19:G:216:GLU:OE2	2.06	0.55
21:I:43:VAL:HG12	21:I:216:LEU:HB3	1.87	0.55
25:M:233:GLU:OE2	25:M:236:GLU:HB2	2.06	0.55
28:P:70:ARG:CZ	28:P:94:LEU:HD12	2.37	0.55
30:R:44:THR:CG2	30:R:100:MET:HB2	2.35	0.55
31:S:155:PHE:HA	31:S:158:MET:HE2	1.89	0.55
32:T:43:MET:SD	32:T:64:LYS:HG3	2.47	0.55
32:T:49:THR:HB	32:T:85:PRO:HG3	1.88	0.55
32:T:174:ARG:HG2	32:T:178:TYR:HE2	1.72	0.55
24:l:171:TYR:HA	24:l:174:ARG:HH11	1.71	0.55
28:p:93:ASN:O	28:p:97:GLU:HG3	2.07	0.55
29:q:182:ILE:HG22	29:q:189:HIS:O	2.07	0.55
31:s:27:THR:HB	31:s:40:SER:N	2.16	0.55
1:U:13:ASP:HB2	10:d:73:ARG:CD	2.35	0.55
1:U:181:LEU:HD11	1:U:205:TYR:HE2	1.71	0.55
1:U:462:LEU:O	1:U:466:LYS:HG2	2.06	0.55
1:U:525:ASN:O	1:U:529:ILE:HD12	2.06	0.55
1:U:644:TYR:CZ	14:C:56:VAL:HB	2.42	0.55
1:U:885:MET:HB3	1:U:888:GLN:CG	2.36	0.55
2:V:478:GLN:O	2:V:481:SER:OG	2.21	0.55
3:W:56:THR:CG2	3:W:103:LYS:HE2	2.36	0.55
3:W:190:MET:HE1	3:W:209:ILE:CG1	2.36	0.55
3:W:200:ILE:HD12	3:W:203:GLN:NE2	2.21	0.55
4:X:157:LEU:HB3	4:X:166:LEU:CD1	2.36	0.55
4:X:336:ILE:HD12	4:X:337:ARG:HG3	1.88	0.55
5:Y:164:ALA:HB1	5:Y:168:ILE:HG21	1.88	0.55
6:Z:194:GLN:HG3	9:c:228:GLY:O	2.07	0.55
7:a:17:GLY:O	7:a:21:VAL:HG22	2.07	0.55
8:b:84:ILE:CB	8:b:115:SER:HB2	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:b:124:LEU:HD13	8:b:156:PHE:HA	1.89	0.55
10:d:139:LEU:HD11	10:d:170:LEU:CD1	2.36	0.55
11:f:202:HIS:CE1	11:f:241:PRO:HB2	2.42	0.55
11:f:684:PRO:HA	11:f:688:ARG:HH11	1.72	0.55
12:A:362:MET:HE3	13:B:216:ILE:HD11	1.88	0.55
15:D:231:VAL:HG11	16:E:216:ARG:HH21	1.72	0.55
25:M:50:GLU:HG3	25:M:209:PHE:HD2	1.69	0.55
25:M:54:LEU:HB2	25:M:57:LEU:CG	2.34	0.55
29:Q:67:TYR:CD2	29:Q:75:LEU:HG	2.42	0.55
29:Q:173:LEU:HA	29:q:172:ILE:O	2.06	0.55
32:T:72:ILE:O	32:T:76:LEU:HG	2.07	0.55
20:h:113:ARG:O	20:h:116:SER:OG	2.18	0.55
21:i:171:ALA:O	21:i:175:LEU:HG	2.06	0.55
22:j:158:ALA:HB3	23:k:58:LEU:HD13	1.89	0.55
24:l:107:ARG:O	24:l:111:LEU:HG	2.07	0.55
25:m:228:PRO:CB	25:m:231:ILE:HB	2.36	0.55
1:U:377:HIS:HB3	1:U:380:THR:CG2	2.36	0.55
1:U:683:VAL:O	1:U:687:ALA:CB	2.55	0.55
2:V:216:ARG:NH2	18:e:3:GLU:HA	2.22	0.55
3:W:231:ILE:HG23	3:W:246:HIS:CE1	2.42	0.55
3:W:395:ASN:HA	3:W:398:VAL:HG22	1.88	0.55
3:W:432:LEU:HD21	9:c:309:PHE:HE2	1.72	0.55
5:Y:138:LEU:HB2	5:Y:175:ASP:OD1	2.06	0.55
6:Z:39:LEU:HD11	6:Z:50:VAL:CG1	2.36	0.55
7:a:169:HIS:CB	7:a:207:GLY:HA2	2.34	0.55
9:c:58:LEU:HD13	9:c:108:VAL:HG12	1.89	0.55
10:d:189:ILE:HD12	10:d:189:ILE:O	2.06	0.55
11:f:291:GLN:NE2	11:f:879:ARG:HD2	2.21	0.55
11:f:305:LEU:HB2	11:f:317:LEU:HB2	1.88	0.55
11:f:605:ASN:O	11:f:608:LYS:N	2.39	0.55
11:f:790:GLN:O	11:f:795:GLY:HA3	2.07	0.55
11:f:828:ARG:O	11:f:860:LYS:HG3	2.07	0.55
12:A:84:LYS:HA	12:A:87:LEU:HD13	1.89	0.55
12:A:240:VAL:HB	12:A:273:PHE:O	2.05	0.55
13:B:339:PRO:HA	13:B:342:ILE:CB	2.37	0.55
14:C:224:ILE:HG12	14:C:268:GLU:HG2	1.87	0.55
14:C:226:GLU:O	14:C:230:MET:HG3	2.06	0.55
15:D:92:PHE:CZ	15:D:124:LEU:CD1	2.84	0.55
15:D:179:GLU:O	15:D:183:LEU:HB3	2.07	0.55
15:D:226:ALA:HB3	15:D:260:ALA:CB	2.36	0.55
16:E:331:ILE:O	16:E:335:SER:OG	2.12	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:K:217:LEU:HB2	23:K:229:PHE:CD1	2.42	0.55
24:L:233:LEU:O	24:L:236:LEU:HD13	2.06	0.55
25:M:51:LYS:NZ	25:M:62:SER:O	2.40	0.55
27:O:114:TYR:HB3	27:O:115:PRO:HD2	1.87	0.55
30:R:76:VAL:HG12	30:R:112:TYR:HD2	1.70	0.55
30:R:104:TRP:CG	30:R:181:GLU:HA	2.42	0.55
20:h:168:VAL:O	20:h:171:LYS:HB3	2.07	0.55
23:k:146:VAL:HA	23:k:151:PRO:HA	1.88	0.55
24:l:13:TRP:HE1	25:m:130:PRO:HD2	1.70	0.55
24:l:168:ALA:HB2	24:l:198:THR:CG2	2.37	0.55
25:m:51:LYS:NZ	25:m:62:SER:O	2.40	0.55
25:m:194:ALA:O	25:m:198:TYR:HB2	2.06	0.55
25:m:215:TRP:CH2	25:m:219:LEU:HD22	2.39	0.55
31:s:170:ARG:HA	31:s:173:ARG:NH1	2.22	0.55
32:t:22:ILE:HD12	32:t:50:MET:CE	2.34	0.55
1:U:31:VAL:CG2	1:U:63:VAL:HG12	2.35	0.55
1:U:264:VAL:HG22	1:U:268:LEU:CD1	2.37	0.55
1:U:493:VAL:O	1:U:497:LEU:HD13	2.06	0.55
1:U:548:LEU:O	1:U:552:ILE:HG12	2.07	0.55
1:U:743:ASN:O	1:U:785:PRO:HA	2.07	0.55
2:V:264:TYR:HB2	10:d:121:ARG:NH2	2.22	0.55
2:V:472:PRO:HB2	6:Z:254:ASN:HB2	1.89	0.55
3:W:194:LEU:HD13	3:W:232:GLN:CD	2.32	0.55
3:W:221:LYS:C	3:W:225:LYS:HD3	2.32	0.55
5:Y:88:LEU:HD12	5:Y:89:GLU:N	2.22	0.55
5:Y:148:GLY:HA3	5:Y:157:ILE:HG21	1.89	0.55
5:Y:273:GLN:O	5:Y:277:VAL:HG23	2.06	0.55
7:a:354:GLU:O	7:a:358:THR:HG22	2.07	0.55
10:d:133:ILE:C	10:d:136:PRO:HD2	2.31	0.55
11:f:106:LEU:HD21	11:f:136:GLU:OE1	2.07	0.55
11:f:305:LEU:CB	11:f:317:LEU:HB2	2.37	0.55
11:f:307:LEU:HB2	11:f:314:TYR:HE2	1.72	0.55
12:A:388:VAL:CG1	12:A:416:VAL:HG21	2.36	0.55
14:C:17:GLY:O	14:C:22:GLN:N	2.39	0.55
14:C:242:ALA:HB1	14:C:243:PRO:HD2	1.88	0.55
14:C:325:ARG:HD3	14:C:354:ALA:O	2.06	0.55
15:D:185:LEU:O	15:D:185:LEU:HD13	2.07	0.55
21:I:79:ILE:HG22	21:I:82:ASP:H	1.72	0.55
22:J:114:LEU:O	22:J:118:TYR:HB2	2.06	0.55
23:K:35:SER:HA	23:K:53:ARG:NH2	2.22	0.55
28:P:28:PHE:HD2	28:P:35:VAL:HB	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:P:149:MET:HE1	31:s:148:LEU:CA	2.37	0.55
31:S:170:ARG:HA	31:S:173:ARG:NH1	2.22	0.55
20:h:6:TYR:CE2	20:h:126:GLY:HA3	2.42	0.55
22:j:88:ARG:NH1	29:q:69:MET:HG3	2.22	0.55
25:m:86:SER:O	25:m:90:ILE:HG12	2.06	0.55
27:o:123:PRO:HG2	27:o:124:TYR:CD1	2.41	0.55
1:U:19:LEU:HG	10:d:27:LYS:HZ2	1.72	0.55
1:U:59:PHE:CD1	1:U:62:LEU:HD22	2.42	0.55
1:U:141:CYS:HB3	1:U:150:ALA:HB2	1.89	0.55
1:U:246:TYR:CE2	1:U:912:ILE:HA	2.42	0.55
2:V:175:MET:HB3	2:V:179:LYS:HZ1	1.71	0.55
2:V:490:SER:HA	6:Z:275:LEU:HD11	1.89	0.55
4:X:244:SER:HB3	4:X:245:PRO:HD3	1.89	0.55
7:a:130:VAL:HG23	7:a:133:GLU:HB2	1.88	0.55
7:a:173:TYR:OH	7:a:216:LEU:HD23	2.07	0.55
8:b:11:ASP:O	8:b:16:MET:HG3	2.07	0.55
10:d:134:LYS:HA	10:d:137:VAL:CG2	2.37	0.55
11:f:195:ASN:HB2	11:f:234:THR:HG23	1.88	0.55
11:f:373:ALA:HB2	11:f:744:MET:CA	2.28	0.55
11:f:702:PRO:HB2	11:f:787:LEU:HG	1.88	0.55
11:f:859:PRO:C	11:f:860:LYS:HD2	2.32	0.55
11:f:861:THR:CG2	11:f:876:HIS:CE1	2.88	0.55
11:f:869:THR:CG2	11:f:885:GLU:O	2.55	0.55
12:A:346:PRO:HG2	12:A:351:ARG:HG3	1.89	0.55
12:A:364:VAL:HA	12:A:404:ALA:O	2.07	0.55
15:D:146:GLU:HB3	15:D:256:GLU:OE1	2.06	0.55
15:D:374:ASP:O	15:D:378:ILE:HG13	2.07	0.55
16:E:177:GLY:O	16:E:339:ASN:HB3	2.07	0.55
17:F:381:TYR:HA	17:F:384:LEU:HD12	1.89	0.55
19:G:44:GLY:N	19:G:47:CYS:O	2.30	0.55
24:L:150:SER:OG	24:L:152:ASN:ND2	2.39	0.55
27:O:32:SER:OG	27:O:187:ARG:NH2	2.40	0.55
29:Q:50:ALA:HB1	30:R:119:ASN:OD1	2.07	0.55
19:g:32:ILE:HG23	19:g:82:GLY:N	2.22	0.55
20:h:67:PRO:HB3	20:h:218:PHE:CE2	2.42	0.55
20:h:157:ALA:CB	21:i:57:ASP:HB2	2.37	0.55
21:i:134:LEU:N	21:i:150:SER:OG	2.22	0.55
22:j:86:ARG:HG2	22:j:114:LEU:CD1	2.37	0.55
26:n:76:VAL:HB	26:n:110:GLN:OE1	2.06	0.55
28:p:70:ARG:CZ	28:p:94:LEU:HD12	2.37	0.55
31:s:125:ASP:OD2	31:s:129:SER:HB3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:353:LEU:HD12	1:U:385:PHE:CD1	2.42	0.54
1:U:444:TYR:CE2	1:U:448:LEU:HD11	2.42	0.54
1:U:536:ALA:HB2	1:U:548:LEU:CD2	2.37	0.54
2:V:157:THR:HA	2:V:160:LEU:CD1	2.37	0.54
2:V:481:SER:HA	2:V:484:LEU:HD21	1.88	0.54
5:Y:220:VAL:HG21	5:Y:249:VAL:HG11	1.88	0.54
5:Y:221:THR:HA	5:Y:224:VAL:HG12	1.89	0.54
7:a:284:ARG:HD3	7:a:288:HIS:H	1.71	0.54
8:b:113:VAL:HG12	8:b:146:GLU:HG2	1.88	0.54
10:d:52:ARG:CZ	10:d:91:GLU:HB2	2.37	0.54
11:f:258:LYS:NZ	11:f:261:ARG:HD3	2.22	0.54
11:f:640:LYS:HG3	11:f:647:GLY:O	2.06	0.54
11:f:761:MET:N	11:f:806:VAL:HG13	2.17	0.54
11:f:828:ARG:HD2	11:f:843:SER:HB3	1.89	0.54
12:A:384:GLU:O	12:A:387:SER:OG	2.24	0.54
14:C:70:GLY:HA3	14:C:118:ASN:CG	2.30	0.54
14:C:127:LEU:HD11	15:D:112:TYR:CD1	2.34	0.54
14:C:351:MET:CE	14:C:387:VAL:HA	2.37	0.54
15:D:264:ILE:HB	15:D:309:MET:HG2	1.89	0.54
16:E:115:VAL:HG11	17:F:95:GLU:CG	2.37	0.54
16:E:364:GLN:HA	16:E:367:PHE:HD2	1.72	0.54
16:E:372:ARG:HB3	25:M:170:GLN:OE1	2.07	0.54
20:H:6:TYR:CE2	20:H:126:GLY:HA3	2.42	0.54
20:H:42:ASN:HD21	20:H:184:LEU:H	1.54	0.54
21:I:135:LEU:CD1	21:I:164:ILE:HD11	2.37	0.54
24:L:95:SER:HB3	24:L:103:LEU:HD21	1.89	0.54
25:M:174:THR:O	25:M:177:GLU:HG2	2.07	0.54
30:R:105:ASP:OD1	30:R:106:LYS:N	2.40	0.54
20:h:42:ASN:HD21	20:h:184:LEU:H	1.54	0.54
22:j:88:ARG:HH11	29:q:69:MET:HG3	1.71	0.54
23:k:69:GLU:HB3	23:k:227:HIS:CE1	2.43	0.54
24:l:72:ILE:HG22	24:l:134:ILE:HG12	1.89	0.54
25:m:198:TYR:CE2	25:m:240:LYS:HA	2.42	0.54
29:q:45:LEU:HB2	29:q:102:LEU:HD11	1.88	0.54
32:t:45:VAL:HG12	32:t:46:ASN:H	1.71	0.54
1:U:515:ALA:O	1:U:519:VAL:HG22	2.06	0.54
1:U:605:VAL:HG22	1:U:609:ASP:HB2	1.89	0.54
2:V:128:ARG:HE	2:V:162:GLU:HG2	1.70	0.54
3:W:456:GLN:H	3:W:456:GLN:NE2	2.04	0.54
4:X:239:TYR:CE2	4:X:246:LYS:HB3	2.43	0.54
6:Z:228:TYR:CD2	7:a:338:PRO:HB2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:12:GLN:HA	7:a:22:TRP:CD2	2.42	0.54
7:a:244:ASN:CG	7:a:246:GLU:HB2	2.32	0.54
8:b:12:ASN:CA	8:b:80:PRO:HA	2.37	0.54
10:d:136:PRO:O	10:d:139:LEU:HB3	2.06	0.54
11:f:25:ASP:O	11:f:26:GLU:HG2	2.08	0.54
11:f:66:LYS:HA	11:f:69:SER:CB	2.38	0.54
11:f:275:MET:O	11:f:279:GLU:HG2	2.07	0.54
11:f:404:ASP:HA	11:f:407:MET:CE	2.36	0.54
11:f:872:VAL:CG2	11:f:881:GLU:HB3	2.37	0.54
12:A:100:LYS:O	12:A:113:ILE:HG23	2.06	0.54
12:A:354:ILE:HB	12:A:385:ILE:CD1	2.38	0.54
13:B:75:GLU:O	13:B:79:ILE:HG22	2.07	0.54
14:C:52:LEU:HB3	15:D:68:LEU:HD13	1.89	0.54
16:E:237:ALA:HB2	17:F:311:LEU:HD12	1.90	0.54
17:F:292:GLY:HA2	17:F:310:MET:SD	2.47	0.54
19:G:32:ILE:HG23	19:G:82:GLY:N	2.22	0.54
19:G:133:PRO:HG2	25:M:14:PHE:CE2	2.42	0.54
20:H:67:PRO:HB3	20:H:218:PHE:CE2	2.42	0.54
23:K:169:ALA:O	23:K:174:SER:OG	2.23	0.54
23:K:170:ILE:HA	23:K:174:SER:OG	2.06	0.54
24:L:47:VAL:HG22	24:L:212:ILE:HG13	1.88	0.54
24:L:71:GLY:HA3	24:L:221:PHE:CE1	2.42	0.54
32:T:22:ILE:HD12	32:T:50:MET:CE	2.34	0.54
32:T:45:VAL:HG23	32:T:50:MET:HA	1.90	0.54
22:j:8:THR:CG2	22:j:16:LEU:HD22	2.37	0.54
23:k:217:LEU:HB2	23:k:229:PHE:CD1	2.42	0.54
29:q:138:LEU:HD22	29:q:171:PHE:CE1	2.42	0.54
31:s:25:SER:OG	31:s:42:LYS:HB2	2.06	0.54
2:V:352:SER:HB3	18:e:6:GLN:NE2	2.14	0.54
6:Z:110:GLU:OE2	6:Z:153:LYS:HD3	2.08	0.54
6:Z:228:TYR:O	6:Z:231:GLN:HB3	2.08	0.54
7:a:123:LEU:HD21	7:a:161:LYS:HG3	1.88	0.54
8:b:124:LEU:HD13	8:b:156:PHE:N	2.22	0.54
9:c:59:GLY:HA3	9:c:69:VAL:HA	1.89	0.54
10:d:68:ILE:HG23	10:d:105:PHE:CE1	2.43	0.54
10:d:94:TYR:HA	10:d:97:GLN:NE2	2.22	0.54
11:f:51:GLN:HA	12:A:400:ARG:NE	2.22	0.54
11:f:181:ARG:O	11:f:184:LEU:HB2	2.07	0.54
11:f:764:LEU:HD21	11:f:774:GLY:C	2.33	0.54
12:A:41:TYR:CE2	13:B:62:LEU:HB2	2.42	0.54
12:A:253:GLY:O	12:A:256:MET:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:D:391:ARG:HG2	15:D:393:ILE:H	1.72	0.54
16:E:118:LEU:HD23	16:E:214:LEU:HB3	1.88	0.54
21:I:25:MET:HA	21:I:28:ILE:CD1	2.38	0.54
22:J:8:THR:HG22	22:J:16:LEU:HD22	1.88	0.54
23:K:207:GLU:OE1	23:K:207:GLU:N	2.40	0.54
28:P:2:SER:N	28:P:5:SER:HB2	2.22	0.54
19:g:73:THR:HG22	19:g:74:GLU:H	1.73	0.54
19:g:110:PRO:HB2	19:g:113:MET:HG2	1.89	0.54
21:i:38:LEU:CD2	21:i:147:LEU:HG	2.37	0.54
24:l:155:ASP:O	25:m:58:TYR:HB2	2.08	0.54
24:l:205:LEU:O	24:l:207:THR:N	2.35	0.54
25:m:37:ILE:HD11	25:m:193:VAL:HG13	1.88	0.54
30:r:105:ASP:OD1	30:r:106:LYS:N	2.40	0.54
32:t:174:ARG:HG2	32:t:178:TYR:HE2	1.72	0.54
1:U:247:GLN:CG	1:U:904:LYS:HD2	2.35	0.54
1:U:583:MET:HG3	1:U:617:ALA:C	2.32	0.54
1:U:698:GLN:HB3	1:U:702:THR:OG1	2.07	0.54
4:X:166:LEU:HA	4:X:169:VAL:HG22	1.90	0.54
4:X:239:TYR:HB3	4:X:247:ALA:HB2	1.90	0.54
4:X:335:LEU:HD22	4:X:339:ILE:HD11	1.90	0.54
5:Y:185:GLY:HA3	5:Y:213:LEU:CD2	2.38	0.54
5:Y:303:ALA:O	5:Y:307:LEU:HB2	2.08	0.54
6:Z:26:ILE:HD13	6:Z:33:LYS:HD3	1.90	0.54
7:a:346:ILE:HG22	7:a:350:LYS:HE3	1.88	0.54
10:d:189:ILE:CD1	10:d:194:ALA:HB2	2.37	0.54
11:f:221:ILE:HA	11:f:224:ASN:HB2	1.89	0.54
11:f:595:VAL:HA	11:f:598:CYS:HB2	1.89	0.54
12:A:355:PHE:CE1	12:A:385:ILE:HG12	2.42	0.54
12:A:369:ARG:NH2	12:A:410:LEU:HD21	2.20	0.54
12:A:382:GLY:HA2	12:A:385:ILE:HD12	1.90	0.54
13:B:260:LEU:HD23	13:B:260:LEU:H	1.73	0.54
13:B:278:ALA:HB1	13:B:279:PRO:HD2	1.89	0.54
13:B:299:SER:HA	13:B:303:ARG:HB2	1.89	0.54
13:B:373:THR:HB	13:B:413:LYS:HB3	1.90	0.54
17:F:141:ASP:OD2	17:F:144:LYS:NZ	2.26	0.54
21:I:38:LEU:CD2	21:I:147:LEU:HG	2.37	0.54
22:J:86:ARG:HG2	22:J:114:LEU:CD1	2.37	0.54
25:M:189:ILE:HA	25:M:192:GLU:HB3	1.88	0.54
26:N:138:TYR:O	26:N:142:THR:CB	2.55	0.54
29:Q:23:SER:HB3	29:Q:26:VAL:O	2.08	0.54
32:T:15:LYS:HG2	32:T:20:VAL:CG2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:h:136:ILE:O	20:h:146:LEU:HD12	2.07	0.54
26:n:19:ARG:HH21	26:n:26:ILE:HD11	1.73	0.54
29:q:101:ASN:HB3	29:q:132:HIS:CD2	2.42	0.54
32:t:15:LYS:HG2	32:t:20:VAL:CG2	2.38	0.54
1:U:14:GLU:HG2	1:U:19:LEU:HD12	1.88	0.54
1:U:493:VAL:HG22	1:U:497:LEU:HD13	1.90	0.54
2:V:481:SER:HA	2:V:484:LEU:CD2	2.37	0.54
3:W:341:PHE:HA	3:W:347:GLY:HA2	1.89	0.54
4:X:348:GLU:O	4:X:351:SER:OG	2.21	0.54
4:X:403:THR:OG1	6:Z:262:LEU:HD11	2.07	0.54
5:Y:139:ASP:OD1	5:Y:211:TYR:OH	2.25	0.54
6:Z:144:VAL:HG13	6:Z:149:THR:O	2.07	0.54
8:b:62:THR:CG2	8:b:74:LYS:HG3	2.37	0.54
9:c:52:GLU:HG2	9:c:114:SER:O	2.07	0.54
10:d:91:GLU:HG2	10:d:92:SER:H	1.72	0.54
11:f:378:ASN:HD21	11:f:392:THR:HG22	1.73	0.54
11:f:580:LEU:HA	11:f:583:VAL:HG13	1.90	0.54
12:A:191:VAL:O	12:A:195:LEU:HD12	2.08	0.54
13:B:211:TYR:CE2	13:B:218:PRO:HB3	2.43	0.54
13:B:264:PRO:CG	13:B:308:THR:HA	2.32	0.54
14:C:188:LEU:CD2	14:C:315:ILE:HB	2.38	0.54
14:C:321:ASN:H	14:C:324:ALA:HB3	1.72	0.54
15:D:259:PRO:HB3	15:D:304:ASN:CB	2.37	0.54
16:E:81:VAL:HG12	16:E:105:LEU:HD13	1.89	0.54
19:G:27:TYR:CZ	25:M:16:PRO:HA	2.43	0.54
20:H:65:VAL:HG11	20:H:211:GLY:HA3	1.90	0.54
20:H:136:ILE:O	20:H:146:LEU:HD12	2.07	0.54
23:K:90:ASP:O	23:K:94:VAL:HG23	2.06	0.54
25:M:37:ILE:HD11	25:M:193:VAL:HG13	1.88	0.54
27:O:126:THR:OG1	27:O:135:MET:HE2	2.07	0.54
29:Q:29:LYS:NZ	29:Q:31:ASP:OD1	2.28	0.54
23:k:207:GLU:OE1	23:k:207:GLU:N	2.40	0.54
32:t:99:ARG:CG	32:t:106:LEU:HG	2.32	0.54
2:V:175:MET:HB3	2:V:179:LYS:NZ	2.23	0.54
2:V:183:GLU:OE2	2:V:211:TYR:OH	2.25	0.54
2:V:225:ASP:HA	2:V:228:ARG:HG2	1.90	0.54
2:V:238:ALA:HA	2:V:242:HIS:O	2.07	0.54
2:V:259:LEU:HD11	2:V:294:ARG:CD	2.32	0.54
3:W:20:TYR:HE2	3:W:22:ALA:HB3	1.72	0.54
3:W:72:LYS:HD3	3:W:123:ARG:HD3	1.90	0.54
3:W:194:LEU:HD13	3:W:232:GLN:OE1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:220:VAL:HG11	5:Y:249:VAL:CG2	2.36	0.54
5:Y:231:LEU:CD1	5:Y:234:PRO:HG2	2.37	0.54
6:Z:215:VAL:HA	6:Z:220:LEU:CB	2.38	0.54
11:f:272:LEU:O	11:f:275:MET:HB2	2.06	0.54
12:A:96:ALA:HB3	13:B:132:TYR:HB3	1.89	0.54
12:A:258:ARG:O	12:A:262:GLU:HG2	2.08	0.54
13:B:51:LEU:CD1	13:B:64:LYS:HE2	2.38	0.54
13:B:175:LYS:HG3	13:B:247:PHE:O	2.06	0.54
13:B:312:LEU:O	13:B:316:LEU:CB	2.50	0.54
14:C:369:TYR:O	14:C:373:GLU:HG2	2.07	0.54
15:D:65:GLN:HG2	15:D:69:LYS:NZ	2.23	0.54
15:D:268:ASP:H	15:D:311:THR:HG21	1.71	0.54
16:E:359:HIS:HB3	16:E:361:PHE:CE1	2.42	0.54
19:G:73:THR:HG22	19:G:74:GLU:H	1.72	0.54
19:G:127:GLN:HA	20:H:128:ARG:NH1	2.23	0.54
20:H:25:ALA:O	20:H:29:VAL:HG23	2.07	0.54
20:H:185:GLU:HA	20:H:188:ILE:HD12	1.89	0.54
21:I:81:SER:HA	21:I:84:ASN:OD1	2.07	0.54
24:L:84:LEU:HD21	24:L:128:TYR:CE2	2.43	0.54
26:N:35:THR:HB	26:N:43:CYS:SG	2.48	0.54
28:P:125:ASP:OD2	28:P:129:CYS:HB3	2.07	0.54
29:Q:119:ASP:OD1	29:Q:120:TYR:N	2.41	0.54
19:g:44:GLY:N	19:g:47:CYS:O	2.30	0.54
20:h:185:GLU:HA	20:h:188:ILE:HD12	1.89	0.54
21:i:81:SER:HA	21:i:84:ASN:OD1	2.07	0.54
21:i:135:LEU:CD1	21:i:164:ILE:HD11	2.37	0.54
24:l:84:LEU:HD21	24:l:128:TYR:CE2	2.43	0.54
24:l:91:GLU:HA	24:l:94:ASP:OD2	2.07	0.54
25:m:20:VAL:O	25:m:24:GLU:HG2	2.07	0.54
26:n:119:MET:SD	32:t:6:VAL:HG21	2.47	0.54
1:U:714:SER:HA	1:U:717:ILE:CG2	2.37	0.54
2:V:102:PRO:O	2:V:106:ARG:HG3	2.06	0.54
2:V:247:GLN:NE2	2:V:274:SER:HB3	2.21	0.54
9:c:134:GLU:CD	9:c:162:LEU:HD23	2.33	0.54
11:f:66:LYS:HA	11:f:69:SER:HB3	1.89	0.54
11:f:171:GLN:HB3	11:f:175:ASP:OD1	2.07	0.54
11:f:757:ASN:CG	33:v:213:ILE:CB	2.80	0.54
11:f:807:ARG:CZ	11:f:807:ARG:CB	2.85	0.54
11:f:810:ILE:HG21	11:f:854:GLY:O	2.07	0.54
12:A:59:ILE:CD1	13:B:76:GLU:HB2	2.38	0.54
12:A:354:ILE:HG22	12:A:385:ILE:CG2	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:A:397:ILE:HG21	13:B:211:TYR:CE1	2.42	0.54
22:J:90:GLU:HG2	22:J:110:TYR:CD2	2.43	0.54
24:L:91:GLU:HA	24:L:94:ASP:OD2	2.07	0.54
25:M:173:LYS:CA	25:M:176:ILE:HD12	2.31	0.54
28:P:158:MET:HE1	28:P:166:THR:OG1	2.07	0.54
29:Q:107:TYR:CE2	29:Q:185:LYS:HA	2.43	0.54
32:T:29:SER:HB3	32:T:182:ARG:HH21	1.73	0.54
19:g:10:ASP:N	19:g:15:ILE:HD11	2.21	0.54
19:g:122:SER:HA	19:g:125:TYR:CD2	2.42	0.54
20:h:92:LYS:HB3	20:h:96:GLN:HE22	1.73	0.54
24:l:95:SER:HB3	24:l:103:LEU:HD21	1.89	0.54
29:q:107:TYR:CE2	29:q:185:LYS:HA	2.43	0.54
30:r:167:ASP:OD1	30:r:168:ALA:N	2.41	0.54
32:t:180:ASP:CB	32:t:183:SER:HB3	2.38	0.54
1:U:802:TYR:O	1:U:877:LEU:HD23	2.07	0.54
2:V:211:TYR:HA	2:V:214:HIS:HB3	1.90	0.54
2:V:466:ILE:O	2:V:472:PRO:HD3	2.08	0.54
4:X:183:LEU:HG	4:X:221:GLU:OE2	2.08	0.54
5:Y:179:ARG:NH1	5:Y:210:SER:H	2.06	0.54
8:b:16:MET:HA	8:b:25:ARG:HD2	1.89	0.54
8:b:26:LEU:CD1	8:b:80:PRO:HG3	2.37	0.54
8:b:51:LEU:CD2	8:b:71:ILE:HG23	2.38	0.54
10:d:107:LEU:HD11	10:d:140:GLU:HB2	1.90	0.54
11:f:277:LEU:HD21	11:f:304:PHE:O	2.08	0.54
11:f:409:SER:OG	11:f:796:LEU:HD23	2.07	0.54
11:f:445:LEU:O	11:f:465:LEU:HD11	2.07	0.54
11:f:501:LEU:HA	11:f:504:VAL:HG23	1.89	0.54
12:A:241:ILE:HB	12:A:244:GLU:CD	2.32	0.54
13:B:122:ILE:HD12	13:B:131:HIS:O	2.08	0.54
13:B:316:LEU:HD23	13:B:346:ARG:HD3	1.90	0.54
14:C:72:TYR:HB2	14:C:116:LEU:HB3	1.90	0.54
14:C:214:VAL:HG21	14:C:248:MET:HE1	1.89	0.54
16:E:229:ILE:HD13	16:E:274:LYS:HB2	1.90	0.54
17:F:96:LEU:HA	17:F:122:ALA:HA	1.90	0.54
17:F:368:ILE:CG2	17:F:371:ARG:HD2	2.38	0.54
20:H:168:VAL:O	20:H:171:LYS:HB3	2.07	0.54
20:H:179:ASN:OD1	20:H:182:LEU:HG	2.08	0.54
23:K:88:LEU:HD21	23:K:137:PHE:HE2	1.73	0.54
26:N:19:ARG:HH21	26:N:26:ILE:HD11	1.73	0.54
29:Q:162:LYS:O	30:r:141:ARG:NH2	2.40	0.54
31:S:25:SER:OG	31:S:42:LYS:HB2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:S:95:ILE:O	31:S:98:SER:OG	2.12	0.54
31:S:125:ASP:OD2	31:S:129:SER:HB3	2.07	0.54
20:h:25:ALA:O	20:h:29:VAL:HG23	2.07	0.54
20:h:91:ARG:O	20:h:95:GLN:HG2	2.08	0.54
20:h:108:ALA:O	20:h:112:GLN:HG2	2.08	0.54
21:i:34:CYS:SG	21:i:47:ALA:HA	2.48	0.54
21:i:111:VAL:HG22	21:i:136:TYR:CE1	2.43	0.54
23:k:100:TRP:O	30:r:57:ARG:NH2	2.41	0.54
27:o:32:SER:OG	27:o:187:ARG:NH2	2.40	0.54
27:o:214:GLU:HA	28:p:198:ARG:HG2	1.88	0.54
30:r:161:TYR:OH	30:r:196:HIS:ND1	2.39	0.54
32:t:15:LYS:HA	32:t:20:VAL:HG22	1.89	0.54
32:t:29:SER:HB3	32:t:182:ARG:HH21	1.73	0.54
1:U:192:GLN:OE1	1:U:196:LYS:HE3	2.08	0.54
1:U:243:LEU:HD21	1:U:903:PHE:CB	2.37	0.54
1:U:580:ARG:HD3	1:U:613:ASP:HB3	1.84	0.54
2:V:182:LYS:HD2	2:V:206:VAL:HG12	1.90	0.54
2:V:306:ARG:HD3	2:V:339:LEU:HD12	1.89	0.54
2:V:468:SER:OG	6:Z:247:LYS:HG3	2.07	0.54
2:V:482:PHE:O	2:V:485:ASP:HB2	2.08	0.54
2:V:491:VAL:HG11	10:d:257:VAL:HG23	1.90	0.54
3:W:40:LEU:O	3:W:44:ILE:HG22	2.08	0.54
5:Y:81:LEU:HD21	5:Y:107:LYS:HB3	1.90	0.54
5:Y:172:GLY:HA3	5:Y:177:ARG:HB2	1.88	0.54
5:Y:193:ASP:OD2	5:Y:293:ARG:HD3	2.07	0.54
6:Z:101:LEU:HB3	6:Z:123:ILE:HD11	1.88	0.54
7:a:114:CYS:O	7:a:118:ILE:HG13	2.07	0.54
7:a:226:ARG:HH21	7:a:234:ILE:HG13	1.73	0.54
11:f:287:ASP:O	11:f:291:GLN:HG2	2.08	0.54
11:f:331:LEU:HD12	11:f:813:LYS:HE3	1.90	0.54
11:f:672:LEU:HD13	11:f:672:LEU:O	2.07	0.54
12:A:74:PRO:O	12:A:77:LEU:HD23	2.08	0.54
12:A:158:ASP:HB2	12:A:159:PRO:HD2	1.90	0.54
15:D:181:VAL:O	15:D:184:PRO:HD2	2.07	0.54
15:D:248:ARG:HG2	15:D:295:GLN:NE2	2.23	0.54
17:F:253:GLY:HA3	17:F:287:GLU:HG2	1.90	0.54
18:e:62:LYS:HZ2	18:e:66:LYS:HD3	1.71	0.54
27:O:174:ASP:OD1	27:O:187:ARG:HD3	2.08	0.54
31:S:186:ASP:HB3	31:S:189:THR:OG1	2.08	0.54
20:h:136:ILE:O	20:h:146:LEU:HA	2.07	0.54
24:l:117:GLN:HG2	25:m:86:SER:OG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:o:98:LEU:HB2	27:o:113:ILE:HB	1.89	0.54
28:p:2:SER:N	28:p:5:SER:HB2	2.22	0.54
29:q:67:TYR:CD2	29:q:75:LEU:HG	2.42	0.54
32:t:23:ALA:HB2	32:t:189:ILE:HG12	1.90	0.54
32:t:45:VAL:HG23	32:t:50:MET:HA	1.90	0.54
1:U:360:VAL:HG13	1:U:392:TRP:CD1	2.43	0.54
2:V:309:MET:HB3	2:V:332:LEU:HG	1.90	0.54
2:V:467:TYR:CE1	5:Y:362:LYS:HG2	2.43	0.54
8:b:151:GLU:OE1	8:b:152:LYS:HG3	2.07	0.54
9:c:29:GLU:HA	9:c:65:TYR:O	2.08	0.54
9:c:222:LYS:C	9:c:223:LYS:HD3	2.33	0.54
10:d:45:LYS:HD2	10:d:88:GLN:HG2	1.88	0.54
11:f:450:ILE:CG2	11:f:804:LEU:HD13	2.37	0.54
11:f:527:VAL:O	11:f:565:ASN:HB3	2.08	0.54
11:f:597:VAL:HB	11:f:635:LYS:HZ3	1.73	0.54
11:f:761:MET:HE2	11:f:765:ALA:O	2.08	0.54
11:f:835:GLU:O	11:f:835:GLU:HG2	2.08	0.54
13:B:60:LEU:O	13:B:64:LYS:HG3	2.07	0.54
14:C:70:GLY:HA2	14:C:118:ASN:HD22	1.67	0.54
14:C:184:LYS:HB3	14:C:286:THR:OG1	2.07	0.54
15:D:85:ILE:HB	15:D:86:PRO:HD2	1.90	0.54
15:D:167:ILE:HB	15:D:174:LYS:NZ	2.22	0.54
15:D:358:VAL:HG11	15:D:399:PHE:CE2	2.43	0.54
17:F:343:LEU:HB3	17:F:351:LYS:NZ	2.23	0.54
17:F:386:ARG:HB3	24:L:166:GLN:NE2	2.21	0.54
22:J:159:ASN:OD1	22:J:160:ALA:N	2.41	0.54
23:K:166:ASP:HB2	24:L:56:LEU:HB2	1.90	0.54
24:L:231:PRO:O	24:L:234:GLU:HG2	2.06	0.54
25:M:179:LEU:HD11	25:M:192:GLU:CG	2.38	0.54
27:O:204:CYS:HB3	27:O:208:THR:HG21	1.90	0.54
29:Q:101:ASN:HB3	29:Q:132:HIS:CD2	2.42	0.54
29:Q:182:ILE:HG22	29:Q:189:HIS:O	2.07	0.54
21:i:170:ALA:O	21:i:173:SER:OG	2.09	0.54
24:l:71:GLY:HA3	24:l:221:PHE:CE1	2.42	0.54
24:l:92:CYS:HA	24:l:103:LEU:CD1	2.35	0.54
27:o:204:CYS:HB3	27:o:208:THR:HG21	1.90	0.54
33:v:179:ARG:O	33:v:179:ARG:HG2	2.08	0.54
1:U:216:VAL:O	1:U:220:LEU:HB2	2.09	0.53
1:U:471:ASP:CB	1:U:507:VAL:HG22	2.38	0.53
2:V:391:THR:HG23	2:V:394:LEU:HD23	1.89	0.53
3:W:371:THR:HG23	3:W:416:GLN:NE2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:454:ASN:CG	6:Z:221:PRO:HG2	2.33	0.53
5:Y:17:LEU:HD21	5:Y:212:GLU:CB	2.35	0.53
5:Y:303:ALA:O	5:Y:307:LEU:CB	2.56	0.53
6:Z:121:LEU:O	6:Z:137:ALA:HB1	2.08	0.53
7:a:12:GLN:HG3	7:a:22:TRP:CB	2.31	0.53
7:a:273:GLN:HB3	7:a:310:LEU:HD11	1.90	0.53
8:b:144:GLY:O	8:b:173:VAL:CG1	2.56	0.53
9:c:184:LEU:H	9:c:184:LEU:HD22	1.72	0.53
10:d:96:HIS:HB3	10:d:130:ASN:CG	2.33	0.53
11:f:538:ILE:HA	11:f:541:THR:HB	1.90	0.53
11:f:637:LYS:HZ3	11:f:670:MET:HE1	1.73	0.53
11:f:777:THR:HG21	11:f:804:LEU:H	1.73	0.53
12:A:222:LYS:HA	12:A:343:PHE:CE2	2.30	0.53
12:A:240:VAL:HG21	12:A:274:PHE:HE1	1.71	0.53
13:B:375:ALA:O	13:B:378:VAL:HG22	2.07	0.53
14:C:69:GLN:HB2	15:D:136:SER:O	2.08	0.53
14:C:261:GLY:O	14:C:270:GLN:NE2	2.41	0.53
15:D:275:PHE:CE2	15:D:277:ALA:HB2	2.44	0.53
15:D:370:ILE:HG23	15:D:374:ASP:HB2	1.89	0.53
17:F:225:MET:HB3	17:F:233:LYS:HZ3	1.62	0.53
17:F:368:ILE:CA	17:F:371:ARG:HD2	2.38	0.53
19:G:114:LEU:HD22	19:G:140:LEU:HD21	1.91	0.53
19:G:122:SER:HA	19:G:125:TYR:CD2	2.42	0.53
21:I:71:ASP:O	21:I:138:GLY:HA2	2.07	0.53
26:N:129:GLY:O	26:N:132:SER:OG	2.20	0.53
29:Q:138:LEU:HD22	29:Q:171:PHE:CE1	2.42	0.53
31:S:35:ILE:HB	32:T:151:ARG:HH12	1.73	0.53
20:h:157:ALA:O	21:i:57:ASP:N	2.39	0.53
21:i:12:PHE:HB2	22:j:21:TYR:CE2	2.43	0.53
22:j:159:ASN:OD1	22:j:160:ALA:N	2.41	0.53
26:n:35:THR:HB	26:n:43:CYS:SG	2.48	0.53
28:p:125:ASP:OD2	28:p:129:CYS:HB3	2.08	0.53
29:q:107:TYR:HB2	29:q:183:ILE:HG22	1.90	0.53
31:s:186:ASP:HB3	31:s:189:THR:OG1	2.08	0.53
32:t:177:TYR:CE1	32:t:185:ASN:HB2	2.43	0.53
33:v:212:ARG:CB	33:v:212:ARG:CZ	2.85	0.53
1:U:903:PHE:HB3	1:U:913:ILE:CD1	2.39	0.53
2:V:89:LYS:HD3	2:V:92:ARG:HH12	1.73	0.53
2:V:172:VAL:O	2:V:175:MET:HB2	2.08	0.53
2:V:245:ASP:OD1	2:V:249:THR:HG23	2.07	0.53
3:W:103:LYS:O	3:W:107:GLN:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:67:VAL:HG21	8:b:91:ARG:HG2	1.90	0.53
9:c:115:HIS:HB3	9:c:118:PHE:CB	2.28	0.53
10:d:103:LEU:HD11	10:d:115:PHE:CE1	2.42	0.53
11:f:221:ILE:HB	11:f:239:TYR:CZ	2.43	0.53
11:f:294:MET:CB	11:f:320:ILE:HG22	2.37	0.53
11:f:759:LEU:O	11:f:806:VAL:HG11	2.08	0.53
13:B:198:LYS:O	13:B:202:GLU:N	2.41	0.53
13:B:292:THR:HG23	13:B:293:LYS:HD3	1.90	0.53
14:C:342:ILE:HD12	14:C:380:GLN:HA	1.90	0.53
17:F:96:LEU:C	17:F:97:LEU:HD12	2.33	0.53
17:F:435:LEU:HD21	24:L:31:GLN:HB3	1.89	0.53
21:I:111:VAL:HG22	21:I:136:TYR:CE1	2.43	0.53
21:I:123:GLN:HE22	22:J:82:ILE:HG13	1.74	0.53
22:J:31:THR:HA	22:J:162:GLY:HA3	1.90	0.53
24:L:212:ILE:HG22	24:L:214:ILE:CD1	2.36	0.53
25:M:211:LEU:C	25:M:211:LEU:HD12	2.33	0.53
28:P:93:ASN:O	28:P:97:GLU:HG3	2.07	0.53
28:P:113:ASP:HB3	28:P:116:THR:O	2.09	0.53
29:Q:102:LEU:O	29:Q:118:MET:HB3	2.08	0.53
29:Q:107:TYR:HB2	29:Q:183:ILE:HG22	1.90	0.53
30:R:167:ASP:OD1	30:R:168:ALA:N	2.41	0.53
31:S:44:TYR:C	31:S:51:VAL:HG13	2.34	0.53
21:i:79:ILE:HG22	21:i:82:ASP:H	1.72	0.53
23:k:95:GLU:OE1	23:k:115:ALA:HB1	2.07	0.53
24:l:39:LYS:NZ	24:l:142:PRO:O	2.27	0.53
28:p:113:ASP:HB3	28:p:116:THR:O	2.08	0.53
29:q:119:ASP:OD1	29:q:120:TYR:N	2.41	0.53
1:U:440:GLY:HA3	1:U:473:VAL:HG13	1.91	0.53
1:U:573:ASP:OD1	1:U:574:LYS:HD3	2.08	0.53
2:V:209:LYS:HA	2:V:212:TYR:HD2	1.73	0.53
2:V:346:LEU:HD21	2:V:361:PHE:HD1	1.74	0.53
2:V:414:TYR:HD1	5:Y:347:ILE:HG23	1.73	0.53
3:W:130:MET:HB3	3:W:134:GLY:O	2.09	0.53
4:X:358:LYS:O	4:X:362:GLU:HG3	2.08	0.53
6:Z:270:VAL:HG13	9:c:281:LYS:HE2	1.90	0.53
9:c:184:LEU:H	9:c:184:LEU:HD23	1.73	0.53
10:d:103:LEU:CD2	10:d:133:ILE:HG23	2.39	0.53
10:d:217:LEU:HA	10:d:221:ASN:O	2.08	0.53
11:f:542:ILE:HD11	11:f:581:GLU:O	2.08	0.53
12:A:39:SER:CB	13:B:57:GLN:HB2	2.38	0.53
12:A:125:LEU:HB2	12:A:129:VAL:HG21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:A:358:HIS:ND1	12:A:386:ARG:HB2	2.24	0.53
12:A:368:ILE:HG22	12:A:406:GLU:OE2	2.09	0.53
13:B:224:LEU:HD23	13:B:353:PHE:HZ	1.73	0.53
15:D:168:GLY:HA3	15:D:347:THR:HG21	1.90	0.53
27:O:28:ASP:HB2	28:P:131:MET:SD	2.48	0.53
29:Q:45:LEU:HB2	29:Q:102:LEU:HD11	1.88	0.53
30:R:14:VAL:O	30:R:176:LEU:HD12	2.09	0.53
32:T:23:ALA:HB2	32:T:189:ILE:HG12	1.90	0.53
20:h:73:GLY:HA3	20:h:218:PHE:CE1	2.44	0.53
27:o:17:ASP:O	27:o:33:LYS:NZ	2.37	0.53
28:p:28:PHE:HD2	28:p:35:VAL:HB	1.72	0.53
28:p:158:MET:HE1	28:p:166:THR:OG1	2.07	0.53
29:q:23:SER:HB3	29:q:26:VAL:O	2.08	0.53
1:U:62:LEU:HD12	1:U:84:ALA:HB1	1.90	0.53
1:U:74:PHE:HB3	1:U:103:LYS:HD2	1.91	0.53
1:U:389:ASN:ND2	1:U:392:TRP:HB3	2.23	0.53
2:V:153:LYS:O	2:V:157:THR:HG23	2.08	0.53
2:V:414:TYR:CB	2:V:417:ILE:HB	2.39	0.53
3:W:268:LYS:CD	3:W:299:ILE:HG12	2.38	0.53
4:X:343:SER:HA	4:X:387:ILE:HD13	1.90	0.53
4:X:365:LEU:O	4:X:369:ILE:HD12	2.08	0.53
11:f:438:ASP:OD1	11:f:477:MET:HG2	2.09	0.53
11:f:612:LEU:HD12	11:f:632:LYS:HD2	1.90	0.53
11:f:785:ARG:HH12	11:f:791:VAL:HG12	1.74	0.53
12:A:372:LEU:O	12:A:376:LEU:HG	2.08	0.53
13:B:51:LEU:HD11	13:B:54:PRO:HD3	1.91	0.53
16:E:340:GLY:HA3	37:E:401:ADP:C5	2.44	0.53
17:F:134:LEU:HD12	17:F:134:LEU:O	2.09	0.53
17:F:175:MET:HE1	17:F:267:LEU:HD21	1.89	0.53
19:G:60:LEU:HD11	25:M:176:ILE:HG22	1.90	0.53
20:H:108:ALA:O	20:H:112:GLN:HG2	2.08	0.53
27:O:98:LEU:HB2	27:O:113:ILE:HB	1.89	0.53
27:O:178:ILE:HG12	27:O:183:LEU:HD13	1.91	0.53
31:S:46:LEU:HD11	31:S:52:ILE:CB	2.32	0.53
19:g:189:TRP:CZ3	19:g:197:THR:HG21	2.43	0.53
22:j:104:VAL:O	22:j:108:THR:HG23	2.09	0.53
25:m:174:THR:O	25:m:177:GLU:HG2	2.07	0.53
25:m:194:ALA:O	25:m:198:TYR:CB	2.55	0.53
26:n:40:ARG:HH12	26:n:182:SER:C	2.16	0.53
26:n:44:CYS:HG	26:n:99:ILE:HB	1.72	0.53
26:n:138:TYR:O	26:n:142:THR:CB	2.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:o:178:ILE:HG12	27:o:183:LEU:HD13	1.91	0.53
30:r:104:TRP:CG	30:r:181:GLU:HA	2.42	0.53
1:U:149:GLN:HG3	14:C:21:ARG:HA	1.90	0.53
1:U:680:VAL:HB	1:U:683:VAL:CG1	2.38	0.53
1:U:769:PHE:HB3	1:U:776:SER:OG	2.08	0.53
1:U:913:ILE:HD12	1:U:913:ILE:O	2.08	0.53
2:V:65:ARG:O	2:V:69:THR:HG23	2.09	0.53
2:V:359:PRO:HG2	2:V:385:LYS:HG2	1.89	0.53
4:X:90:ARG:HE	4:X:125:LEU:HD12	1.74	0.53
4:X:171:LEU:HD21	4:X:209:THR:HG22	1.88	0.53
4:X:213:GLN:HA	4:X:216:ILE:CG1	2.38	0.53
5:Y:117:LYS:HD3	5:Y:151:TYR:CD2	2.43	0.53
6:Z:59:ASP:HB2	8:b:99:HIS:CE1	2.43	0.53
6:Z:143:GLU:C	6:Z:152:SER:HB3	2.33	0.53
7:a:19:PRO:HA	7:a:23:HIS:CD2	2.42	0.53
7:a:62:ASN:O	7:a:66:GLU:HG3	2.08	0.53
8:b:146:GLU:OE1	8:b:150:THR:HA	2.09	0.53
9:c:100:LYS:HG2	9:c:105:PRO:CA	2.35	0.53
9:c:100:LYS:HA	9:c:104:ARG:O	2.08	0.53
10:d:25:ARG:O	10:d:29:VAL:HG23	2.09	0.53
11:f:91:SER:HA	11:f:109:ILE:HG22	1.90	0.53
11:f:108:GLU:C	11:f:112:ASN:HB2	2.33	0.53
11:f:330:PHE:CA	11:f:333:LEU:HD23	2.37	0.53
11:f:559:PRO:CG	11:f:591:ALA:HB2	2.39	0.53
11:f:597:VAL:H	11:f:635:LYS:HZ3	1.57	0.53
11:f:640:LYS:HE2	11:f:651:GLY:HA3	1.91	0.53
12:A:303:ILE:HG23	12:A:336:ARG:HH22	1.73	0.53
12:A:353:HIS:O	12:A:357:ILE:HG13	2.09	0.53
12:A:355:PHE:CD1	12:A:385:ILE:HG23	2.43	0.53
13:B:49:LEU:HD22	13:B:50:PRO:HD2	1.90	0.53
15:D:244:PRO:CD	15:D:288:ILE:HG12	2.37	0.53
15:D:300:ASP:CG	15:D:303:VAL:HG23	2.32	0.53
15:D:349:THR:HB	15:D:354:LEU:CD1	2.38	0.53
16:E:234:GLU:CD	17:F:311:LEU:HB3	2.32	0.53
17:F:94:ILE:HD11	17:F:125:LYS:CB	2.35	0.53
20:H:92:LYS:HB3	20:H:96:GLN:HE22	1.73	0.53
20:H:136:ILE:O	20:H:146:LEU:HA	2.08	0.53
24:L:84:LEU:HD11	24:L:128:TYR:CD2	2.44	0.53
24:L:136:GLY:O	24:L:142:PRO:HA	2.09	0.53
24:L:186:GLU:CA	24:L:189:LYS:HE3	2.38	0.53
26:N:164:MET:HE3	26:N:171:GLY:C	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:O:40:ASN:O	27:O:102:GLY:HA2	2.09	0.53
28:P:159:ASP:OD1	28:P:162:HIS:N	2.35	0.53
29:Q:35:MET:HG2	29:Q:45:LEU:HD21	1.91	0.53
21:i:90:LEU:CD1	21:i:114:LEU:HD22	2.38	0.53
23:k:20:ARG:O	23:k:21:LEU:HG	2.08	0.53
24:l:84:LEU:HD11	24:l:128:TYR:CD2	2.44	0.53
24:l:136:GLY:O	24:l:142:PRO:HA	2.09	0.53
28:p:23:ALA:CB	28:p:187:VAL:HG22	2.39	0.53
29:q:35:MET:HG2	29:q:45:LEU:HD21	1.91	0.53
1:U:366:HIS:NE2	1:U:395:ARG:HB3	2.23	0.53
2:V:285:TRP:HD1	2:V:315:LYS:HE2	1.73	0.53
3:W:68:VAL:O	3:W:71:VAL:HG12	2.08	0.53
3:W:148:THR:HA	3:W:151:THR:CG2	2.39	0.53
5:Y:17:LEU:CD2	5:Y:212:GLU:HB2	2.36	0.53
5:Y:246:ILE:HD12	5:Y:249:VAL:HG21	1.91	0.53
6:Z:212:LEU:CD2	7:a:349:MET:HE3	2.38	0.53
8:b:109:ILE:HB	8:b:138:VAL:CG2	2.31	0.53
11:f:58:MET:O	11:f:62:ARG:HG2	2.07	0.53
11:f:527:VAL:HG22	11:f:528:GLY:H	1.72	0.53
12:A:99:THR:HB	12:A:114:ASN:O	2.09	0.53
12:A:204:LEU:O	12:A:204:LEU:HD23	2.09	0.53
12:A:214:LEU:O	12:A:320:ALA:HA	2.09	0.53
13:B:152:LEU:HD22	13:B:157:HIS:O	2.09	0.53
13:B:201:VAL:C	13:B:204:PRO:HD2	2.34	0.53
13:B:360:THR:O	13:B:364:ILE:HG13	2.09	0.53
13:B:387:LYS:HB3	13:B:390:LEU:HD23	1.91	0.53
17:F:357:PRO:HB2	17:F:362:ARG:HG3	1.89	0.53
19:G:189:TRP:CZ3	19:G:197:THR:HG21	2.43	0.53
20:H:73:GLY:HA3	20:H:218:PHE:CE1	2.44	0.53
23:K:20:ARG:O	23:K:21:LEU:HG	2.08	0.53
23:K:37:ALA:N	23:K:170:ILE:O	2.40	0.53
23:K:69:GLU:HB3	23:K:227:HIS:CE1	2.43	0.53
25:M:11:ALA:HB3	25:M:125:TYR:O	2.08	0.53
25:M:150:MET:O	25:M:157:SER:HA	2.09	0.53
25:M:182:LYS:HE2	25:M:182:LYS:HA	1.90	0.53
32:T:33:LEU:HD13	26:n:134:TYR:CZ	2.44	0.53
32:T:177:TYR:CE1	32:T:185:ASN:HB2	2.43	0.53
20:h:26:LEU:HD23	20:h:151:PRO:HG2	1.88	0.53
20:h:65:VAL:HG11	20:h:211:GLY:HA3	1.90	0.53
21:i:39:ALA:HB3	21:i:184:MET:CB	2.38	0.53
22:j:91:CYS:HB2	22:j:102:VAL:HG21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:o:126:THR:OG1	27:o:135:MET:HE2	2.07	0.53
29:q:102:LEU:O	29:q:118:MET:HB3	2.08	0.53
31:s:91:MET:HG2	31:s:95:ILE:HD11	1.91	0.53
33:v:193:GLU:O	33:v:193:GLU:HG2	2.09	0.53
1:U:202:VAL:HG11	1:U:219:CYS:SG	2.49	0.53
1:U:573:ASP:O	1:U:579:ARG:HD3	2.08	0.53
2:V:163:VAL:HA	2:V:175:MET:HE2	1.90	0.53
2:V:360:TYR:CD1	2:V:363:LEU:HD23	2.44	0.53
3:W:42:GLU:O	3:W:46:THR:HG23	2.08	0.53
3:W:163:ALA:HA	3:W:166:LEU:CD1	2.39	0.53
4:X:53:LEU:HD23	4:X:56:LEU:HD12	1.90	0.53
4:X:346:GLN:HE21	4:X:349:HIS:CE1	2.26	0.53
5:Y:172:GLY:HA2	5:Y:177:ARG:N	2.23	0.53
5:Y:197:ALA:O	5:Y:201:PHE:HB2	2.09	0.53
7:a:321:LYS:HZ3	7:a:335:TRP:CG	2.26	0.53
8:b:4:GLU:N	8:b:47:ASN:OD1	2.36	0.53
11:f:64:GLY:HA2	11:f:67:ASP:CB	2.32	0.53
11:f:616:CYS:SG	11:f:632:LYS:HG2	2.48	0.53
12:A:91:GLN:HB2	12:A:92:PRO:HD3	1.90	0.53
13:B:232:LYS:HE2	37:B:501:ADP:O3B	2.09	0.53
13:B:361:LYS:CE	13:B:390:LEU:HG	2.39	0.53
14:C:220:VAL:O	14:C:230:MET:HE1	2.09	0.53
14:C:250:GLU:CG	14:C:295:THR:HA	2.34	0.53
15:D:94:GLU:O	15:D:101:ALA:HB1	2.08	0.53
16:E:229:ILE:CD1	16:E:274:LYS:HB2	2.39	0.53
16:E:320:ILE:HG12	17:F:217:ILE:HG22	1.91	0.53
31:S:91:MET:HG2	31:S:95:ILE:HD11	1.91	0.53
23:k:199:LEU:HA	23:k:202:LEU:CD1	2.35	0.53
27:o:40:ASN:O	27:o:102:GLY:HA2	2.09	0.53
30:r:8:PHE:HE1	30:r:13:ILE:HG12	1.74	0.53
2:V:171:VAL:O	2:V:175:MET:HG3	2.08	0.53
2:V:268:GLU:HA	2:V:271:VAL:HG22	1.90	0.53
3:W:143:ALA:HA	3:W:146:THR:HG22	1.90	0.53
3:W:293:ASP:HB3	3:W:296:LEU:CB	2.26	0.53
3:W:451:MET:HE1	6:Z:211:TYR:CE1	2.44	0.53
5:Y:214:MET:O	5:Y:219:PHE:N	2.21	0.53
5:Y:231:LEU:CD2	5:Y:236:LEU:HD12	2.39	0.53
6:Z:81:MET:HB3	9:c:91:PHE:HE1	1.74	0.53
6:Z:226:ILE:O	6:Z:229:GLN:N	2.42	0.53
7:a:188:LEU:HD12	7:a:189:PRO:O	2.08	0.53
9:c:116:PRO:CA	9:c:148:ILE:HD13	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d:56:GLU:HG2	10:d:98:LEU:HD13	1.89	0.53
10:d:142:TYR:HB3	10:d:147:SER:O	2.09	0.53
11:f:251:CYS:HA	11:f:289:VAL:CG2	2.39	0.53
11:f:305:LEU:HB2	11:f:317:LEU:CD2	2.33	0.53
13:B:365:PHE:CE2	13:B:395:ILE:HG12	2.44	0.53
15:D:88:VAL:CG2	15:D:132:LEU:HB2	2.39	0.53
16:E:367:PHE:O	16:E:371:VAL:HG23	2.08	0.53
18:e:52:PHE:HB3	18:e:55:GLN:CG	2.39	0.53
28:P:177:ARG:NH2	31:s:150:ASP:OD2	2.41	0.53
29:Q:96:THR:HG22	29:Q:98:TYR:HE1	1.73	0.53
31:S:2:PHE:HE1	32:T:127:MET:HE3	1.74	0.53
32:T:180:ASP:CB	32:T:183:SER:HB3	2.38	0.53
23:k:88:LEU:HD21	23:k:137:PHE:HE2	1.73	0.53
26:n:164:MET:HE3	26:n:171:GLY:C	2.34	0.53
1:U:220:LEU:HD21	1:U:225:ASP:O	2.08	0.53
1:U:324:LYS:HA	1:U:327:LYS:HE3	1.91	0.53
1:U:428:PRO:HA	1:U:439:GLU:HB2	1.90	0.53
1:U:681:ASN:OD1	1:U:682:TYR:N	2.42	0.53
1:U:725:MET:HE3	9:c:182:GLY:CA	2.24	0.53
2:V:255:LEU:HG	2:V:269:LYS:CE	2.39	0.53
4:X:342:PHE:CD2	4:X:345:VAL:HB	2.44	0.53
4:X:421:LEU:HB2	6:Z:283:ARG:HH22	1.74	0.53
5:Y:147:ILE:HA	5:Y:150:PHE:HB2	1.91	0.53
6:Z:68:TRP:CH2	6:Z:111:LEU:HD13	2.44	0.53
6:Z:69:PHE:HE2	8:b:95:LEU:HB3	1.73	0.53
6:Z:164:ALA:HB1	6:Z:169:GLU:OE2	2.09	0.53
7:a:104:VAL:O	7:a:111:VAL:HB	2.09	0.53
7:a:249:GLN:HA	7:a:252:LYS:HB2	1.91	0.53
9:c:41:MET:HE1	9:c:112:TYR:CB	2.39	0.53
9:c:130:GLN:CB	9:c:162:LEU:HD22	2.39	0.53
9:c:305:ASP:O	9:c:309:PHE:HB2	2.09	0.53
11:f:190:GLU:OE2	11:f:197:ALA:N	2.42	0.53
11:f:252:ALA:HB1	11:f:256:PHE:CD2	2.43	0.53
11:f:650:GLN:OE1	13:B:72:LEU:HD12	2.09	0.53
11:f:710:LEU:HD12	11:f:729:MET:CE	2.38	0.53
12:A:87:LEU:HA	12:A:90:GLU:CB	2.39	0.53
14:C:139:MET:HE2	14:C:215:SER:H	1.74	0.53
14:C:152:GLY:O	14:C:328:ILE:HD11	2.09	0.53
14:C:154:LEU:HD11	14:C:195:GLY:HA3	1.91	0.53
15:D:212:LYS:HA	15:D:333:PHE:CE2	2.44	0.53
17:F:363:ALA:HB2	17:F:385:ALA:CB	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:I:34:CYS:SG	21:I:47:ALA:HA	2.48	0.53
24:L:13:TRP:CE2	25:M:129:ARG:HD2	2.44	0.53
27:O:198:ARG:NH2	28:P:152:SER:O	2.41	0.53
28:P:159:ASP:OD2	28:P:161:ASP:HB2	2.09	0.53
30:R:196:HIS:O	30:R:200:SER:HB3	2.08	0.53
19:g:88:ARG:HH12	25:m:157:SER:H	1.56	0.53
19:g:114:LEU:HD22	19:g:140:LEU:HD21	1.91	0.53
1:U:157:THR:HG23	1:U:159:ARG:H	1.74	0.53
1:U:895:PRO:HD2	1:U:902:PRO:CG	2.39	0.53
2:V:159:LEU:HD22	2:V:163:VAL:CG2	2.39	0.53
5:Y:236:LEU:HD23	5:Y:240:VAL:HG21	1.91	0.53
5:Y:275:LEU:HD11	5:Y:296:VAL:O	2.08	0.53
5:Y:301:ILE:HA	5:Y:304:TYR:HB2	1.89	0.53
7:a:289:ARG:HD3	7:a:289:ARG:H	1.72	0.53
8:b:38:HIS:O	8:b:42:ARG:HD3	2.08	0.53
9:c:58:LEU:HD12	9:c:108:VAL:HA	1.91	0.53
9:c:186:LYS:HB3	9:c:186:LYS:HZ1	1.73	0.53
10:d:148:TYR:HB3	10:d:174:ILE:HD13	1.90	0.53
11:f:85:SER:HA	11:f:88:SER:HB2	1.91	0.53
11:f:240:VAL:O	11:f:243:PRO:HD2	2.09	0.53
12:A:333:ARG:CZ	35:F:501:ATP:O2B	2.57	0.53
12:A:407:LYS:O	12:A:410:LEU:HB2	2.08	0.53
14:C:165:ILE:HG12	14:C:290:LYS:CG	2.38	0.53
15:D:253:LEU:HG	15:D:257:ASN:HD21	1.74	0.53
16:E:291:ARG:CD	16:E:294:ARG:HD2	2.31	0.53
16:E:305:ASN:O	16:E:309:ARG:HG3	2.09	0.53
16:E:339:ASN:N	16:E:342:ASP:OD2	2.32	0.53
17:F:233:LYS:HZ3	17:F:233:LYS:HB3	1.74	0.53
17:F:431:LYS:HE2	17:F:431:LYS:HA	1.91	0.53
23:K:117:SER:CB	24:L:82:ARG:HH12	2.21	0.53
27:O:204:CYS:CB	27:O:208:THR:HG21	2.39	0.53
30:R:35:ILE:HD11	30:R:45:MET:CE	2.39	0.53
31:S:27:THR:O	31:S:40:SER:N	2.42	0.53
31:S:114:ASP:OD2	31:S:118:LYS:HB2	2.09	0.53
32:T:27:LEU:CD1	32:T:37:ARG:HA	2.39	0.53
20:h:179:ASN:OD1	20:h:182:LEU:HG	2.08	0.53
25:m:182:LYS:HE2	25:m:182:LYS:HA	1.90	0.53
31:s:27:THR:O	31:s:40:SER:N	2.42	0.53
31:s:44:TYR:C	31:s:51:VAL:HG13	2.34	0.53
1:U:65:SER:HA	1:U:77:SER:HA	1.90	0.52
1:U:482:GLY:HA2	1:U:519:VAL:CG1	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:69:THR:HA	2:V:72:LEU:CB	2.39	0.52
2:V:198:GLN:NE2	14:C:33:LEU:HD22	2.23	0.52
2:V:263:LEU:HD12	10:d:121:ARG:HD3	1.91	0.52
2:V:438:VAL:HG13	2:V:451:ILE:HG12	1.91	0.52
3:W:90:LEU:HD13	3:W:97:LEU:CD1	2.39	0.52
3:W:92:LYS:HB3	3:W:96:GLN:HE21	1.74	0.52
4:X:47:GLU:OE1	4:X:80:ILE:HG21	2.08	0.52
4:X:335:LEU:HB3	4:X:339:ILE:CD1	2.39	0.52
5:Y:361:SER:C	5:Y:362:LYS:HD3	2.35	0.52
6:Z:43:TRP:HB2	6:Z:90:ARG:NH2	2.24	0.52
7:a:9:GLN:O	7:a:12:GLN:HB3	2.09	0.52
7:a:34:TRP:CD1	8:b:18:ASN:HA	2.33	0.52
10:d:61:TRP:O	10:d:65:ARG:HG2	2.08	0.52
11:f:182:GLU:OE2	11:f:186:THR:OG1	2.26	0.52
11:f:559:PRO:O	11:f:562:LEU:HB2	2.09	0.52
11:f:609:VAL:O	11:f:612:LEU:HB3	2.09	0.52
12:A:314:ASN:ND2	33:v:203:PRO:HD2	2.15	0.52
12:A:354:ILE:CD1	35:A:501:ATP:N6	2.72	0.52
13:B:223:ILE:HG13	13:B:347:ILE:HD13	1.90	0.52
17:F:202:ILE:C	17:F:205:PRO:HD2	2.34	0.52
17:F:317:LEU:HD11	17:F:328:VAL:HG21	1.91	0.52
19:G:189:TRP:HZ3	19:G:197:THR:HG21	1.74	0.52
21:I:84:ASN:O	21:I:87:THR:OG1	2.20	0.52
22:J:91:CYS:HB2	22:J:102:VAL:HG21	1.91	0.52
24:L:36:VAL:HG22	24:L:160:SER:CB	2.39	0.52
24:L:39:LYS:HZ3	24:L:143:HIS:HA	1.74	0.52
27:O:1:THR:O	27:O:129:SER:N	2.42	0.52
21:i:197:LEU:HA	21:i:200:THR:OG1	2.09	0.52
22:j:90:GLU:HG2	22:j:110:TYR:CD2	2.43	0.52
24:l:39:LYS:NZ	24:l:143:HIS:HA	2.24	0.52
27:o:174:ASP:OD1	27:o:187:ARG:HD3	2.08	0.52
29:q:96:THR:HG22	29:q:98:TYR:HE1	1.73	0.52
29:q:104:LEU:O	29:q:115:LEU:HD12	2.09	0.52
1:U:62:LEU:HD11	1:U:87:LEU:CB	2.37	0.52
1:U:518:LEU:HD23	1:U:554:LEU:HD13	1.91	0.52
2:V:157:THR:HA	2:V:160:LEU:CG	2.39	0.52
3:W:125:ILE:O	3:W:129:ARG:HG2	2.08	0.52
3:W:276:LEU:C	3:W:357:ARG:HE	2.18	0.52
3:W:452:ILE:HD13	6:Z:101:LEU:CD1	2.39	0.52
5:Y:12:PRO:O	5:Y:15:PRO:HD2	2.10	0.52
7:a:25:LEU:HD22	7:a:44:PHE:CE2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:89:ASP:HB3	7:a:92:VAL:CG2	2.36	0.52
9:c:303:MET:HE3	10:d:239:SER:O	2.10	0.52
10:d:142:TYR:HA	10:d:147:SER:HB3	1.91	0.52
11:f:186:THR:HG22	11:f:194:TYR:CE1	2.44	0.52
11:f:461:PRO:HB3	11:f:494:ARG:NH1	2.19	0.52
11:f:708:ASP:OD1	11:f:785:ARG:HB3	2.09	0.52
11:f:754:LYS:HB2	11:f:754:LYS:HZ2	1.73	0.52
14:C:29:GLU:O	14:C:33:LEU:HG	2.10	0.52
15:D:267:ILE:HG12	15:D:311:THR:HG23	1.91	0.52
16:E:62:LYS:CG	16:E:70:ILE:HD12	2.39	0.52
16:E:214:LEU:O	16:E:218:MET:HG3	2.09	0.52
16:E:311:ASP:O	16:E:315:ILE:HG13	2.09	0.52
17:F:281:SER:O	17:F:326:VAL:HA	2.09	0.52
20:H:29:VAL:HG21	20:H:151:PRO:CG	2.39	0.52
20:H:91:ARG:O	20:H:95:GLN:HG2	2.08	0.52
22:J:55:ASP:OD1	22:J:56:GLU:N	2.42	0.52
22:J:65:LEU:C	29:Q:69:MET:HE2	2.34	0.52
22:J:104:VAL:O	22:J:108:THR:HG23	2.09	0.52
28:P:163:LEU:HD23	28:P:189:ILE:HD11	1.90	0.52
25:m:11:ALA:HB3	25:m:125:TYR:O	2.08	0.52
30:r:14:VAL:O	30:r:176:LEU:HD12	2.09	0.52
1:U:82:LEU:O	1:U:129:ARG:NE	2.42	0.52
1:U:392:TRP:HD1	1:U:395:ARG:HE	1.57	0.52
1:U:568:GLU:OE2	1:U:572:ARG:NE	2.28	0.52
1:U:717:ILE:HD12	1:U:731:ILE:HB	1.91	0.52
2:V:290:TYR:OH	2:V:327:THR:HG22	2.10	0.52
3:W:183:VAL:HG22	3:W:212:LYS:HG2	1.89	0.52
5:Y:14:ASN:O	5:Y:17:LEU:HD13	2.08	0.52
5:Y:148:GLY:CA	5:Y:157:ILE:HG12	2.38	0.52
5:Y:238:GLU:O	5:Y:242:LYS:HB2	2.09	0.52
7:a:216:LEU:CD1	7:a:217:LEU:HD12	2.39	0.52
7:a:374:ILE:HG12	10:d:251:ARG:HG2	1.91	0.52
8:b:15:TYR:HB3	8:b:145:GLU:OE2	2.08	0.52
10:d:219:PRO:HG2	10:d:223:TYR:OH	2.10	0.52
11:f:437:GLU:CG	11:f:440:ILE:HD12	2.35	0.52
11:f:438:ASP:OD1	11:f:477:MET:N	2.43	0.52
11:f:660:ILE:CD1	11:f:693:ALA:HB2	2.39	0.52
11:f:683:GLU:O	11:f:687:ARG:HB2	2.09	0.52
11:f:696:LEU:HD11	12:A:83:ASP:CB	2.38	0.52
14:C:83:LYS:CG	14:C:105:ILE:HD11	2.30	0.52
17:F:288:LEU:HB3	17:F:332:THR:CG2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G:58:ASP:OD2	19:G:60:LEU:HB2	2.09	0.52
21:I:44:LEU:CD2	21:I:189:ALA:HB1	2.39	0.52
22:J:94:HIS:ND1	22:J:102:VAL:HG22	2.25	0.52
25:M:40:ARG:NH1	25:M:147:GLN:HA	2.24	0.52
25:M:193:VAL:HA	25:M:196:ILE:CD1	2.34	0.52
26:N:12:VAL:HG13	26:N:109:GLY:HA3	1.91	0.52
27:O:31:CYS:SG	27:O:32:SER:N	2.79	0.52
29:Q:104:LEU:O	29:Q:115:LEU:HD12	2.09	0.52
30:R:161:TYR:OH	30:R:196:HIS:ND1	2.39	0.52
32:T:15:LYS:HA	32:T:20:VAL:HG22	1.89	0.52
20:h:15:PRO:HA	21:i:23:TYR:CZ	2.44	0.52
21:i:139:TRP:HA	21:i:144:GLY:O	2.09	0.52
27:o:204:CYS:CB	27:o:208:THR:HG21	2.39	0.52
28:p:98:LYS:HB3	28:p:101:GLY:O	2.09	0.52
28:p:159:ASP:OD1	28:p:162:HIS:N	2.35	0.52
31:s:8:ASN:OD1	31:s:57:PHE:HA	2.09	0.52
1:U:13:ASP:CB	10:d:73:ARG:HD3	2.35	0.52
1:U:163:PHE:HE2	1:U:201:LEU:HD21	1.74	0.52
1:U:644:TYR:CE1	14:C:56:VAL:HB	2.45	0.52
1:U:788:VAL:HG21	1:U:802:TYR:OH	2.09	0.52
1:U:892:LEU:CD1	1:U:906:LEU:HD23	2.40	0.52
2:V:333:ILE:HG13	2:V:360:TYR:OH	2.09	0.52
2:V:345:ARG:NH2	2:V:360:TYR:HB3	2.24	0.52
3:W:36:LYS:HA	3:W:87:ILE:HD12	1.90	0.52
5:Y:348:ASP:OD1	5:Y:349:LYS:N	2.43	0.52
6:Z:82:PHE:HA	6:Z:85:VAL:CG1	2.39	0.52
6:Z:180:LYS:H	6:Z:180:LYS:HD2	1.74	0.52
7:a:35:HIS:CD2	8:b:15:TYR:HA	2.44	0.52
7:a:68:GLU:OE2	7:a:71:VAL:HB	2.09	0.52
8:b:4:GLU:HA	8:b:106:LYS:H	1.74	0.52
9:c:112:TYR:CB	9:c:143:VAL:HB	2.39	0.52
9:c:296:ILE:HG23	10:d:246:VAL:CG1	2.40	0.52
10:d:186:TYR:OH	10:d:189:ILE:HG23	2.09	0.52
10:d:199:PHE:HB2	10:d:200:PHE:CD2	2.45	0.52
11:f:261:ARG:HG3	11:f:269:ALA:HB3	1.90	0.52
11:f:565:ASN:ND2	11:f:776:LEU:HD11	2.23	0.52
13:B:410:ARG:HH21	14:C:167:LEU:HB2	1.74	0.52
14:C:33:LEU:O	14:C:36:ASN:HB3	2.09	0.52
14:C:339:THR:OG1	14:C:377:HIS:HB3	2.09	0.52
15:D:89:ILE:HD12	16:E:78:ARG:HB3	1.91	0.52
16:E:43:SER:O	16:E:47:LEU:HG	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:E:129:ASN:HB3	16:E:189:SER:HB3	1.91	0.52
16:E:300:HIS:NE2	16:E:302:ASP:OD1	2.43	0.52
17:F:193:LYS:HD3	17:F:193:LYS:H	1.75	0.52
17:F:199:VAL:HG13	17:F:203:VAL:CB	2.40	0.52
17:F:295:ARG:NH2	17:F:311:LEU:HD21	2.20	0.52
17:F:364:ARG:O	17:F:368:ILE:HG13	2.09	0.52
19:G:32:ILE:HA	19:G:82:GLY:HA2	1.91	0.52
22:J:120:GLN:OE1	23:K:135:ARG:HG2	2.08	0.52
25:M:240:LYS:C	25:M:242:SER:H	2.18	0.52
26:N:37:ILE:H	26:N:37:ILE:HD12	1.74	0.52
29:Q:38:MET:HA	29:Q:61:GLN:OE1	2.10	0.52
30:R:52:CYS:SG	30:R:97:MET:HG3	2.50	0.52
19:g:58:ASP:OD2	19:g:60:LEU:HB2	2.09	0.52
20:h:87:VAL:O	20:h:91:ARG:HG2	2.10	0.52
22:j:31:THR:HA	22:j:162:GLY:HA3	1.91	0.52
24:l:167:SER:O	24:l:170:THR:OG1	2.20	0.52
27:o:219:LEU:HD11	28:p:195:ILE:HG13	1.90	0.52
30:r:35:ILE:HD11	30:r:45:MET:CE	2.39	0.52
31:s:186:ASP:OD1	31:s:187:VAL:N	2.43	0.52
1:U:138:PHE:O	1:U:141:CYS:HB2	2.10	0.52
1:U:416:GLU:OE1	1:U:450:HIS:NE2	2.39	0.52
1:U:592:GLY:HA3	1:U:627:PHE:CE2	2.44	0.52
1:U:600:ARG:O	1:U:604:HIS:HB2	2.09	0.52
2:V:80:LYS:HE2	2:V:126:ALA:C	2.34	0.52
2:V:80:LYS:NZ	2:V:127:THR:HG22	2.24	0.52
2:V:255:LEU:HD11	2:V:295:ILE:HG13	1.92	0.52
3:W:90:LEU:O	3:W:90:LEU:HD23	2.09	0.52
4:X:173:GLU:O	4:X:176:THR:HG22	2.10	0.52
5:Y:349:LYS:HG3	5:Y:350:VAL:HG13	1.92	0.52
11:f:40:ASP:O	11:f:44:GLU:HB3	2.09	0.52
11:f:669:GLU:HA	11:f:705:ASN:HD22	1.75	0.52
11:f:680:ARG:HH22	11:f:778:LEU:HG	1.75	0.52
12:A:392:ALA:HA	12:A:412:ALA:CB	2.39	0.52
13:B:373:THR:HG23	14:C:177:ALA:O	2.09	0.52
15:D:146:GLU:OE1	15:D:146:GLU:N	2.39	0.52
15:D:375:ILE:HD12	15:D:375:ILE:H	1.75	0.52
20:H:102:GLN:NE2	27:O:57:GLN:OE1	2.43	0.52
21:I:133:SER:OG	21:I:152:PRO:HD3	2.09	0.52
22:J:119:THR:HG22	22:J:126:PRO:HB3	1.91	0.52
22:J:175:ASN:ND2	22:J:190:LEU:HD11	2.19	0.52
23:K:193:GLU:HA	23:K:196:LYS:HZ3	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:M:198:TYR:CE2	25:M:211:LEU:CD2	2.83	0.52
28:P:98:LYS:HB3	28:P:101:GLY:O	2.09	0.52
19:g:189:TRP:HZ3	19:g:197:THR:HG21	1.74	0.52
24:l:187:LEU:O	24:l:190:HIS:HB2	2.10	0.52
28:p:163:LEU:HD23	28:p:189:ILE:HD11	1.90	0.52
1:U:21:GLU:O	1:U:24:LEU:HG	2.09	0.52
3:W:9:ALA:O	3:W:13:ILE:HG23	2.10	0.52
5:Y:103:ALA:O	5:Y:107:LYS:HB2	2.10	0.52
8:b:15:TYR:HB2	8:b:115:SER:CB	2.39	0.52
11:f:549:GLU:O	11:f:549:GLU:HG2	2.09	0.52
12:A:276:GLU:CG	13:B:310:LEU:HD11	2.36	0.52
12:A:388:VAL:HG13	12:A:416:VAL:HG21	1.90	0.52
13:B:56:THR:HG23	13:B:58:CYS:N	2.25	0.52
13:B:281:ILE:HA	13:B:326:LYS:HB2	1.92	0.52
14:C:120:SER:HB2	14:C:122:THR:HG23	1.92	0.52
14:C:358:GLU:O	14:C:362:VAL:HG23	2.10	0.52
15:D:255:LYS:NZ	15:D:299:PHE:HA	2.24	0.52
16:E:198:VAL:HG12	16:E:200:SER:N	2.24	0.52
18:e:41:ASP:HA	18:e:45:ASP:HB2	1.92	0.52
21:I:139:TRP:HA	21:I:144:GLY:O	2.10	0.52
23:K:54:ILE:HG23	23:K:59:MET:CE	2.39	0.52
24:L:95:SER:CB	24:L:103:LEU:HD21	2.40	0.52
24:L:235:GLY:C	24:L:236:LEU:HD12	2.35	0.52
25:M:194:ALA:O	25:M:198:TYR:HB2	2.10	0.52
28:P:23:ALA:CB	28:P:187:VAL:HG22	2.39	0.52
28:P:175:VAL:HG11	28:P:182:GLY:HA2	1.91	0.52
20:h:170:GLY:O	20:h:174:LEU:HG	2.10	0.52
22:j:94:HIS:ND1	22:j:102:VAL:HG22	2.25	0.52
22:j:180:ALA:CB	22:j:190:LEU:HD22	2.36	0.52
23:k:28:ILE:HD13	23:k:158:PRO:HD2	1.91	0.52
23:k:30:ALA:O	23:k:33:LEU:HG	2.09	0.52
23:k:54:ILE:HG23	23:k:59:MET:CE	2.39	0.52
23:k:117:SER:HA	23:k:120:ALA:HB2	1.92	0.52
25:m:150:MET:O	25:m:157:SER:HA	2.09	0.52
25:m:213:LEU:HB2	25:m:227:VAL:CG2	2.38	0.52
30:r:83:LEU:HA	30:r:86:MET:CE	2.39	0.52
1:U:141:CYS:HA	14:C:20:LEU:CB	2.39	0.52
1:U:237:VAL:HG22	1:U:321:GLN:HB2	1.92	0.52
1:U:242:LEU:HD11	1:U:327:LYS:HZ1	1.74	0.52
2:V:50:GLU:HB3	2:V:54:LYS:HD3	1.90	0.52
2:V:482:PHE:CE2	2:V:486:ILE:HD11	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:390:GLU:O	4:X:392:PRO:HD3	2.10	0.52
5:Y:297:ARG:CB	5:Y:300:ARG:HD2	2.40	0.52
7:a:52:GLN:HA	7:a:86:GLN:HG2	1.90	0.52
8:b:29:GLN:O	8:b:33:VAL:HG23	2.10	0.52
8:b:113:VAL:CG1	8:b:146:GLU:HG2	2.40	0.52
11:f:181:ARG:CD	11:f:184:LEU:HD22	2.37	0.52
11:f:487:LEU:HD11	11:f:804:LEU:HD12	1.91	0.52
11:f:545:LYS:HA	11:f:548:THR:O	2.09	0.52
11:f:637:LYS:HG2	11:f:674:THR:OG1	2.10	0.52
12:A:303:ILE:HG23	12:A:336:ARG:NH1	2.24	0.52
12:A:347:ASP:C	12:A:348:LEU:HD12	2.35	0.52
14:C:61:GLU:HG2	14:C:65:LEU:HD11	1.90	0.52
14:C:256:SER:OG	14:C:269:VAL:HB	2.09	0.52
14:C:266:ASP:HA	14:C:270:GLN:HE21	1.75	0.52
15:D:96:VAL:HG23	15:D:102:ILE:CD1	2.38	0.52
17:F:72:LYS:HE2	17:F:72:LYS:HA	1.92	0.52
20:H:4:ARG:HD3	25:M:127:ALA:CB	2.39	0.52
21:I:17:ARG:NH1	21:I:22:GLU:HG3	2.25	0.52
21:I:39:ALA:HB3	21:I:184:MET:CB	2.39	0.52
23:K:91:LYS:CE	23:K:119:LEU:HD21	2.39	0.52
24:L:104:PRO:HG2	24:L:107:ARG:NH1	2.25	0.52
25:M:189:ILE:O	25:M:192:GLU:HB3	2.10	0.52
26:N:18:SER:CB	26:N:30:VAL:HA	2.40	0.52
30:R:83:LEU:HA	30:R:86:MET:CE	2.39	0.52
19:g:132:ARG:HD3	25:m:124:LEU:CD2	2.38	0.52
25:m:152:ASP:OD2	25:m:154:SER:OG	2.28	0.52
28:p:2:SER:OG	28:p:3:ILE:N	2.42	0.52
30:r:196:HIS:O	30:r:200:SER:HB3	2.08	0.52
1:U:901:GLN:HB2	1:U:917:THR:CG2	2.40	0.52
4:X:154:LEU:HD11	4:X:173:GLU:OE1	2.10	0.52
4:X:208:ALA:HB2	4:X:238:GLY:HA3	1.92	0.52
5:Y:312:ARG:O	5:Y:355:GLU:HA	2.10	0.52
5:Y:348:ASP:OD2	5:Y:351:ASN:HB2	2.09	0.52
7:a:77:VAL:HA	7:a:80:ILE:CG2	2.36	0.52
7:a:79:ILE:O	7:a:83:VAL:HG23	2.10	0.52
10:d:147:SER:O	10:d:151:VAL:HG23	2.10	0.52
11:f:20:ALA:HB2	11:f:71:TYR:CD1	2.44	0.52
11:f:247:ALA:C	11:f:248:LEU:HD22	2.35	0.52
11:f:781:TYR:CZ	11:f:785:ARG:HD2	2.45	0.52
12:A:120:LYS:HB2	17:F:90:VAL:CG2	2.40	0.52
12:A:423:PHE:HB3	12:A:426:THR:OG1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B:221:GLY:C	13:B:347:ILE:HG23	2.34	0.52
13:B:377:ASP:O	13:B:416:ASN:HB2	2.10	0.52
14:C:203:VAL:HA	14:C:206:HIS:CD2	2.41	0.52
17:F:281:SER:OG	17:F:325:GLN:O	2.27	0.52
17:F:318:ASP:HB3	17:F:347:ARG:HE	1.75	0.52
22:J:17:PHE:O	22:J:21:TYR:HB2	2.10	0.52
23:K:30:ALA:O	23:K:33:LEU:HG	2.09	0.52
26:N:29:ARG:NH2	32:t:178:TYR:HB3	2.25	0.52
31:S:186:ASP:OD1	31:S:187:VAL:N	2.43	0.52
21:i:97:TYR:CE2	21:i:105:ILE:HA	2.45	0.52
23:k:91:LYS:HZ3	23:k:116:VAL:HA	1.74	0.52
25:m:54:LEU:HB2	25:m:57:LEU:CG	2.34	0.52
26:n:12:VAL:HG13	26:n:109:GLY:HA3	1.91	0.52
27:o:1:THR:O	27:o:129:SER:N	2.43	0.52
27:o:187:ARG:HB3	27:o:188:PRO:HD3	1.92	0.52
29:q:12:TYR:HD2	29:q:182:ILE:HD11	1.75	0.52
30:r:52:CYS:SG	30:r:97:MET:HG3	2.50	0.52
1:U:11:LEU:CD2	10:d:77:GLN:HG2	2.40	0.52
1:U:188:MET:CE	1:U:194:ARG:HA	2.34	0.52
3:W:8:ARG:O	3:W:12:ARG:HG2	2.10	0.52
3:W:422:ASN:O	3:W:426:ASN:HB2	2.10	0.52
6:Z:234:PHE:HA	6:Z:237:LEU:HD23	1.91	0.52
11:f:53:GLN:HA	11:f:58:MET:HG3	1.90	0.52
11:f:72:ARG:HD2	11:f:87:THR:HG23	1.92	0.52
11:f:195:ASN:HB2	11:f:234:THR:CG2	2.39	0.52
11:f:198:HIS:ND1	11:f:238:ASN:HB3	2.25	0.52
11:f:495:GLU:O	11:f:499:THR:HG23	2.10	0.52
12:A:124:ASP:OD1	12:A:125:LEU:N	2.42	0.52
12:A:257:VAL:HG12	12:A:305:GLN:OE1	2.09	0.52
12:A:258:ARG:HH22	17:F:255:GLN:HA	1.74	0.52
13:B:107:MET:CB	14:C:96:VAL:HB	2.40	0.52
14:C:98:ASP:OD1	14:C:99:VAL:N	2.42	0.52
14:C:137:LEU:O	14:C:137:LEU:HD13	2.10	0.52
14:C:204:ALA:HA	14:C:245:ILE:CD1	2.28	0.52
14:C:350:LEU:HB3	14:C:387:VAL:HG11	1.92	0.52
15:D:230:VAL:HG12	15:D:231:VAL:O	2.09	0.52
17:F:222:GLY:O	17:F:349:ASP:N	2.43	0.52
20:H:170:GLY:O	20:H:174:LEU:HG	2.10	0.52
22:J:33:VAL:HG11	22:J:168:VAL:HG11	1.92	0.52
22:J:76:LEU:CD1	22:J:79:ASP:H	2.23	0.52
24:L:88:MET:SD	24:L:108:LEU:HD21	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:L:207:THR:HG22	24:L:233:LEU:CD1	2.40	0.52
25:M:219:LEU:O	25:M:219:LEU:HD23	2.10	0.52
27:O:48:THR:HG22	27:O:51:ASP:H	1.75	0.52
28:P:62:THR:OG1	29:Q:85:ARG:NH2	2.43	0.52
30:R:127:SER:HB3	30:R:136:TYR:CZ	2.45	0.52
19:g:138:MET:CB	19:g:154:CYS:HB3	2.29	0.52
20:h:29:VAL:HG21	20:h:151:PRO:CG	2.39	0.52
20:h:137:CYS:HB3	20:h:146:LEU:HD13	1.92	0.52
22:j:160:ALA:O	22:j:165:ALA:HB1	2.10	0.52
23:k:37:ALA:N	23:k:170:ILE:O	2.40	0.52
24:l:39:LYS:HD2	24:l:142:PRO:HG2	1.92	0.52
24:l:212:ILE:HG22	24:l:214:ILE:CD1	2.36	0.52
25:m:40:ARG:NH1	25:m:147:GLN:HA	2.24	0.52
26:n:18:SER:CB	26:n:30:VAL:HA	2.40	0.52
26:n:179:ILE:HG12	26:n:184:VAL:HG22	1.92	0.52
28:p:159:ASP:OD2	28:p:161:ASP:HB2	2.09	0.52
28:p:178:ASP:OD1	28:p:179:ALA:N	2.43	0.52
30:r:127:SER:HB3	30:r:136:TYR:CZ	2.45	0.52
31:s:12:ILE:HD11	31:s:54:CYS:C	2.35	0.52
32:t:27:LEU:CD1	32:t:37:ARG:HA	2.39	0.52
32:t:166:ARG:O	32:t:170:GLU:HG3	2.10	0.52
1:U:149:GLN:NE2	14:C:20:LEU:O	2.32	0.52
1:U:685:GLN:O	1:U:689:ILE:HG13	2.10	0.52
2:V:212:TYR:O	2:V:215:ALA:HB3	2.10	0.52
2:V:231:LEU:CD1	2:V:250:LEU:HB3	2.39	0.52
2:V:451:ILE:CG1	2:V:458:VAL:HG22	2.34	0.52
3:W:67:LEU:CD2	3:W:71:VAL:HB	2.40	0.52
3:W:212:LYS:HG3	3:W:215:GLN:HE22	1.75	0.52
3:W:442:THR:HG22	3:W:446:ILE:CD1	2.40	0.52
5:Y:81:LEU:CD1	5:Y:110:TYR:HB3	2.40	0.52
5:Y:321:GLU:OE1	5:Y:321:GLU:N	2.42	0.52
7:a:205:LEU:O	7:a:268:LEU:HD21	2.10	0.52
7:a:245:VAL:HG21	7:a:301:LYS:HG2	1.92	0.52
9:c:174:PRO:HG2	9:c:176:GLN:OE1	2.10	0.52
10:d:24:GLY:HA2	10:d:27:LYS:CG	2.39	0.52
10:d:29:VAL:HG11	10:d:51:ALA:CB	2.40	0.52
10:d:56:GLU:OE2	10:d:98:LEU:HD22	2.10	0.52
11:f:318:THR:HA	11:f:321:MET:HE3	1.92	0.52
11:f:567:LEU:O	11:f:601:ALA:HB2	2.10	0.52
12:A:252:GLU:OE1	12:A:255:ARG:HD3	2.10	0.52
13:B:51:LEU:CD1	13:B:53:THR:HG22	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:C:127:LEU:N	14:C:127:LEU:HD23	2.24	0.52
15:D:338:ARG:NH1	15:D:365:ALA:HA	2.21	0.52
21:I:90:LEU:CD1	21:I:114:LEU:HD22	2.38	0.52
22:J:11:SER:OG	22:J:15:HIS:N	2.25	0.52
24:L:39:LYS:NZ	24:L:143:HIS:HA	2.24	0.52
29:Q:12:TYR:HD2	29:Q:182:ILE:HD11	1.75	0.52
31:S:8:ASN:OD1	31:S:57:PHE:HA	2.09	0.52
21:i:17:ARG:NH1	21:i:22:GLU:HG3	2.24	0.52
22:j:17:PHE:O	22:j:21:TYR:HB2	2.10	0.52
22:j:55:ASP:OD1	22:j:56:GLU:N	2.42	0.52
24:l:88:MET:SD	24:l:108:LEU:HD21	2.50	0.52
25:m:100:SER:HA	32:t:65:GLN:HE21	1.74	0.52
26:n:37:ILE:H	26:n:37:ILE:HD12	1.74	0.52
29:q:38:MET:HA	29:q:61:GLN:OE1	2.10	0.52
1:U:229:VAL:HA	1:U:232:ILE:HG12	1.91	0.51
1:U:242:LEU:HD11	1:U:327:LYS:NZ	2.25	0.51
1:U:350:LEU:HD12	1:U:385:PHE:CE1	2.45	0.51
1:U:650:TYR:CE1	1:U:686:GLY:HA3	2.44	0.51
2:V:181:TYR:O	2:V:184:ALA:HB3	2.10	0.51
2:V:345:ARG:O	2:V:345:ARG:HD2	2.10	0.51
5:Y:101:ARG:HD3	5:Y:130:LYS:HZ2	1.75	0.51
5:Y:316:LEU:HD13	5:Y:327:VAL:CG1	2.37	0.51
7:a:232:TRP:HH2	7:a:257:GLN:HB2	1.75	0.51
10:d:207:THR:HG23	10:d:211:LYS:CD	2.39	0.51
11:f:45:LEU:CD2	11:f:55:GLU:HB2	2.39	0.51
11:f:107:LYS:HB3	11:f:141:LYS:HE2	1.91	0.51
11:f:180:GLN:OE1	11:f:219:LYS:HD3	2.10	0.51
11:f:680:ARG:HD2	11:f:763:ARG:CB	2.40	0.51
12:A:309:PHE:HZ	17:F:177:VAL:HG22	1.75	0.51
15:D:225:ALA:HB1	15:D:259:PRO:O	2.10	0.51
22:J:69:VAL:CG1	22:J:71:MET:HE3	2.40	0.51
23:K:101:PHE:CE2	30:R:61:ARG:HA	2.45	0.51
26:N:179:ILE:HG12	26:N:184:VAL:HG22	1.92	0.51
27:O:187:ARG:HB3	27:O:188:PRO:HD3	1.92	0.51
19:g:144:ASP:CB	19:g:147:GLN:HB2	2.37	0.51
22:j:69:VAL:CG1	22:j:71:MET:HE3	2.40	0.51
23:k:154:PHE:CE1	23:k:164:GLN:HB2	2.45	0.51
24:l:36:VAL:HG22	24:l:160:SER:CB	2.39	0.51
26:n:66:HIS:O	26:n:70:LEU:HG	2.10	0.51
27:o:63:LEU:HD11	27:o:79:ALA:HB2	1.92	0.51
1:U:74:PHE:HB3	1:U:103:LYS:CD	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:365:CYS:HA	1:U:368:ALA:HB3	1.92	0.51
1:U:654:MET:O	1:U:658:ILE:HG12	2.10	0.51
2:V:95:LEU:CA	2:V:137:GLU:HB3	2.33	0.51
4:X:57:LEU:HD23	4:X:62:GLN:NE2	2.26	0.51
4:X:126:ARG:O	4:X:130:GLU:HG2	2.10	0.51
4:X:313:LEU:HD13	4:X:313:LEU:O	2.10	0.51
5:Y:45:VAL:CB	5:Y:70:LEU:HD21	2.41	0.51
5:Y:168:ILE:HG23	5:Y:176:ARG:CZ	2.40	0.51
5:Y:271:PHE:O	5:Y:275:LEU:HB3	2.10	0.51
7:a:120:ALA:O	7:a:123:LEU:HD13	2.10	0.51
7:a:245:VAL:HG11	7:a:301:LYS:CD	2.30	0.51
8:b:52:ILE:HD12	8:b:59:GLU:C	2.36	0.51
9:c:33:ILE:HA	9:c:69:VAL:HG12	1.91	0.51
10:d:50:LEU:O	10:d:54:ILE:HG12	2.11	0.51
11:f:330:PHE:N	11:f:333:LEU:CD2	2.67	0.51
11:f:697:ILE:HA	11:f:706:ILE:HG21	1.92	0.51
13:B:135:ILE:HG22	13:B:159:VAL:CG2	2.40	0.51
14:C:28:ILE:HG22	15:D:44:TYR:HA	1.93	0.51
20:H:87:VAL:O	20:H:91:ARG:HG2	2.10	0.51
20:H:105:ILE:HD11	20:H:109:GLN:CG	2.41	0.51
21:I:97:TYR:CE2	21:I:105:ILE:HA	2.45	0.51
23:K:117:SER:HA	23:K:120:ALA:HB2	1.91	0.51
24:L:16:GLN:OE1	24:L:18:ARG:NH2	2.28	0.51
24:L:90:GLN:OE1	24:L:93:LEU:HD11	2.11	0.51
25:M:64:LYS:HG2	25:M:212:GLU:OE2	2.10	0.51
26:N:66:HIS:O	26:N:70:LEU:HG	2.10	0.51
30:R:8:PHE:HE1	30:R:13:ILE:HG12	1.74	0.51
32:T:145:LEU:HD21	27:o:132:LEU:HB3	1.92	0.51
21:i:72:MET:HA	21:i:137:ILE:O	2.10	0.51
22:j:119:THR:HG22	22:j:126:PRO:HB3	1.91	0.51
24:l:90:GLN:OE1	24:l:93:LEU:HD11	2.11	0.51
27:o:15:GLY:HA2	27:o:174:ASP:O	2.09	0.51
1:U:515:ALA:HA	1:U:518:LEU:HB2	1.92	0.51
2:V:218:TYR:CD1	2:V:221:LEU:HD11	2.46	0.51
2:V:223:LYS:HA	2:V:261:TYR:OH	2.11	0.51
2:V:334:VAL:HG22	2:V:360:TYR:HE1	1.76	0.51
3:W:107:GLN:O	3:W:110:THR:OG1	2.26	0.51
3:W:268:LYS:HD3	3:W:299:ILE:HG12	1.93	0.51
3:W:454:ASN:ND2	6:Z:221:PRO:HG3	1.92	0.51
5:Y:179:ARG:CZ	5:Y:209:THR:CG2	2.88	0.51
5:Y:179:ARG:C	5:Y:181:LYS:N	2.67	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:307:LEU:HD21	5:Y:319:MET:SD	2.51	0.51
5:Y:316:LEU:CD1	5:Y:352:GLU:HG3	2.40	0.51
6:Z:101:LEU:HB3	6:Z:123:ILE:CD1	2.40	0.51
10:d:168:ASP:O	10:d:171:LEU:HB2	2.10	0.51
10:d:200:PHE:HD1	10:d:203:PRO:HG3	1.75	0.51
11:f:63:LEU:O	11:f:63:LEU:HD13	2.09	0.51
11:f:408:LEU:CD1	11:f:476:THR:HG21	2.41	0.51
11:f:535:THR:O	11:f:539:LEU:HD23	2.10	0.51
11:f:562:LEU:HD22	11:f:578:ALA:HB1	1.93	0.51
11:f:637:LYS:HE3	11:f:674:THR:N	2.25	0.51
11:f:757:ASN:OD1	33:v:213:ILE:HG13	2.10	0.51
11:f:780:PRO:O	11:f:784:ASP:HB2	2.09	0.51
12:A:126:SER:O	12:A:129:VAL:HG22	2.09	0.51
13:B:54:PRO:HB2	13:B:61:LYS:CD	2.39	0.51
14:C:20:LEU:CD1	14:C:21:ARG:HG3	2.40	0.51
15:D:352:MET:SD	16:E:164:ILE:CD1	2.98	0.51
16:E:72:LYS:CB	16:E:78:ARG:HG2	2.40	0.51
17:F:371:ARG:CG	17:F:371:ARG:NH1	2.73	0.51
23:K:41:GLN:NE2	23:K:152:GLN:HA	2.25	0.51
24:L:39:LYS:HD2	24:L:142:PRO:HG2	1.92	0.51
24:L:187:LEU:O	24:L:190:HIS:HB2	2.10	0.51
26:N:19:ARG:HB2	26:N:171:GLY:C	2.36	0.51
31:S:12:ILE:HD11	31:S:54:CYS:C	2.35	0.51
19:g:28:ALA:O	19:g:32:ILE:HD12	2.10	0.51
19:g:124:VAL:HA	19:g:127:GLN:HB3	1.93	0.51
19:g:200:THR:O	19:g:204:THR:HG23	2.10	0.51
20:h:105:ILE:HD11	20:h:109:GLN:CG	2.41	0.51
21:i:133:SER:OG	21:i:152:PRO:HD3	2.09	0.51
23:k:13:ASN:OD1	24:l:126:ARG:HD3	2.11	0.51
23:k:41:GLN:NE2	23:k:152:GLN:HA	2.25	0.51
23:k:110:GLU:HG3	23:k:162:PHE:HE2	1.76	0.51
24:l:104:PRO:HG2	24:l:107:ARG:NH1	2.25	0.51
28:p:61:GLN:HB2	29:q:85:ARG:NH2	2.26	0.51
29:q:19:ARG:HB3	29:q:31:ASP:CA	2.40	0.51
1:U:21:GLU:HA	1:U:24:LEU:HD23	1.92	0.51
1:U:212:ASP:CG	1:U:216:VAL:HB	2.36	0.51
1:U:478:SER:OG	1:U:511:ALA:HA	2.10	0.51
1:U:580:ARG:HD2	1:U:614:VAL:N	1.89	0.51
1:U:636:VAL:HG12	15:D:57:GLN:HE21	1.75	0.51
1:U:725:MET:HE2	9:c:178:THR:HB	1.92	0.51
1:U:773:PHE:HE1	9:c:178:THR:HG23	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:901:GLN:OE1	1:U:917:THR:HG21	2.11	0.51
3:W:378:MET:CE	3:W:413:ILE:HD11	2.39	0.51
5:Y:45:VAL:CG1	5:Y:70:LEU:HD11	2.39	0.51
5:Y:250:LEU:O	5:Y:257:ARG:HB2	2.10	0.51
5:Y:345:CYS:HB2	5:Y:355:GLU:O	2.11	0.51
8:b:100:ARG:NH1	8:b:103:LYS:HA	2.25	0.51
9:c:120:CYS:CA	9:c:144:VAL:HG11	2.40	0.51
9:c:127:ILE:HG13	9:c:162:LEU:HD13	1.91	0.51
9:c:282:ARG:O	9:c:285:GLU:HG3	2.11	0.51
11:f:43:GLN:HA	11:f:47:GLU:CB	2.40	0.51
11:f:413:SER:HA	11:f:416:MET:HE3	1.92	0.51
11:f:567:LEU:HD23	11:f:775:THR:CG2	2.37	0.51
11:f:811:LEU:HB2	11:f:878:GLU:HA	1.93	0.51
12:A:387:SER:OG	12:A:420:TYR:OH	2.25	0.51
16:E:93:LYS:O	16:E:96:THR:HG22	2.11	0.51
16:E:177:GLY:HA2	37:E:401:ADP:H5'2	1.93	0.51
17:F:134:LEU:CD1	17:F:137:ILE:HA	2.39	0.51
19:G:97:GLU:OE2	19:G:121:ILE:HD11	2.10	0.51
20:H:29:VAL:HG21	20:H:151:PRO:HG3	1.92	0.51
21:I:72:MET:HA	21:I:137:ILE:O	2.10	0.51
22:J:104:VAL:HG13	22:J:145:TYR:HE2	1.75	0.51
26:N:19:ARG:HB2	26:N:171:GLY:O	2.10	0.51
26:N:40:ARG:NH2	26:N:181:GLU:C	2.67	0.51
19:g:78:CYS:HB2	19:g:138:MET:HE3	1.93	0.51
24:l:95:SER:CB	24:l:103:LEU:HD21	2.40	0.51
25:m:51:LYS:NZ	25:m:63:ASN:OD1	2.24	0.51
26:n:19:ARG:HB2	26:n:171:GLY:O	2.10	0.51
27:o:198:ARG:NH2	28:p:152:SER:O	2.43	0.51
31:s:26:ASP:OD2	31:s:190:GLY:N	2.36	0.51
1:U:82:LEU:CD2	1:U:130:LEU:HA	2.41	0.51
1:U:611:ASN:HB3	1:U:614:VAL:CG1	2.38	0.51
4:X:47:GLU:HG2	4:X:76:PHE:HE2	1.75	0.51
4:X:410:VAL:HG12	9:c:256:ASN:HA	1.92	0.51
5:Y:191:ILE:CD1	5:Y:290:PRO:HB3	2.41	0.51
5:Y:196:GLN:HA	5:Y:200:LEU:CD2	2.34	0.51
5:Y:311:TYR:O	5:Y:314:LEU:HB2	2.10	0.51
6:Z:253:THR:O	6:Z:257:MET:HG2	2.11	0.51
7:a:180:LEU:HA	7:a:183:VAL:HG12	1.92	0.51
8:b:11:ASP:CG	8:b:54:LEU:HD21	2.36	0.51
8:b:124:LEU:HD13	8:b:156:PHE:CA	2.41	0.51
9:c:255:TYR:CZ	9:c:259:VAL:HG21	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d:131:VAL:HA	10:d:134:LYS:HB3	1.93	0.51
10:d:170:LEU:HA	10:d:173:THR:CG2	2.40	0.51
11:f:798:THR:HG22	11:f:802:SER:HB2	1.92	0.51
12:A:39:SER:HB3	13:B:57:GLN:CG	2.40	0.51
12:A:188:ARG:HD3	12:A:192:GLU:HB3	1.92	0.51
15:D:132:LEU:HD13	15:D:137:ASN:OD1	2.09	0.51
15:D:352:MET:SD	16:E:164:ILE:HG12	2.50	0.51
17:F:79:LYS:HD3	17:F:83:ASN:ND2	2.26	0.51
19:G:28:ALA:O	19:G:32:ILE:HD12	2.10	0.51
22:J:10:PHE:HE2	23:K:27:ALA:HB2	1.75	0.51
25:M:209:PHE:H	25:M:209:PHE:HD1	1.55	0.51
26:N:45:ARG:HA	26:N:98:ILE:HD13	1.91	0.51
27:O:15:GLY:HA2	27:O:174:ASP:O	2.09	0.51
30:R:177:TYR:CE1	30:R:186:ARG:HG3	2.46	0.51
19:g:139:ILE:C	19:g:140:LEU:HD12	2.35	0.51
21:i:25:MET:HA	21:i:28:ILE:CD1	2.38	0.51
22:j:175:ASN:ND2	22:j:190:LEU:HD11	2.19	0.51
25:m:219:LEU:O	25:m:219:LEU:HD23	2.10	0.51
26:n:3:ILE:HD12	26:n:99:ILE:HD12	1.93	0.51
31:s:99:ARG:HD3	31:s:104:TYR:CE2	2.46	0.51
31:s:114:ASP:OD2	31:s:118:LYS:HB2	2.09	0.51
1:U:164:GLU:OE1	1:U:167:ILE:HD11	2.11	0.51
1:U:202:VAL:HA	1:U:205:TYR:CD2	2.46	0.51
1:U:797:MET:HB2	1:U:880:ASN:ND2	2.23	0.51
1:U:880:ASN:HB2	1:U:881:PRO:HD3	1.91	0.51
2:V:67:LEU:HA	2:V:70:VAL:CG2	2.40	0.51
2:V:110:HIS:HB3	2:V:114:TYR:CE2	2.46	0.51
2:V:332:LEU:O	2:V:335:VAL:HG22	2.10	0.51
3:W:68:VAL:HG12	3:W:72:LYS:HE3	1.92	0.51
3:W:183:VAL:HA	3:W:186:ILE:HG22	1.92	0.51
4:X:343:SER:O	4:X:387:ILE:HD12	2.11	0.51
5:Y:142:PHE:CE2	5:Y:182:VAL:HG21	2.46	0.51
5:Y:181:LYS:HD2	5:Y:209:THR:CB	2.33	0.51
5:Y:268:TYR:HB3	5:Y:323:PHE:CD1	2.45	0.51
8:b:21:PHE:HD1	8:b:25:ARG:HG2	1.75	0.51
11:f:7:ASP:O	11:f:11:VAL:HG23	2.10	0.51
11:f:69:SER:O	11:f:73:PRO:HG2	2.11	0.51
11:f:72:ARG:H	11:f:73:PRO:HD3	1.75	0.51
11:f:413:SER:HA	11:f:416:MET:CE	2.41	0.51
11:f:460:ASP:OD2	11:f:464:ALA:HB3	2.10	0.51
11:f:539:LEU:O	11:f:543:MET:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:707:LEU:O	11:f:710:LEU:HB3	2.10	0.51
13:B:364:ILE:HB	13:B:395:ILE:HD13	1.91	0.51
14:C:214:VAL:HG22	14:C:234:LEU:HD11	1.93	0.51
14:C:233:GLU:O	14:C:237:MET:HG3	2.10	0.51
16:E:353:PHE:O	16:E:356:ARG:HB2	2.10	0.51
17:F:191:LEU:O	17:F:195:ILE:HD12	2.10	0.51
18:e:52:PHE:CD2	18:e:55:GLN:HG3	2.45	0.51
20:H:210:VAL:CG1	20:H:221:LEU:HD12	2.41	0.51
22:J:109:ARG:HG2	22:J:153:TYR:CE1	2.46	0.51
23:K:28:ILE:HD13	23:K:158:PRO:HD2	1.91	0.51
23:K:38:ILE:HG12	23:K:169:ALA:HB1	1.92	0.51
23:K:141:LEU:HB2	23:K:156:MET:HG2	1.93	0.51
29:Q:142:ILE:H	29:Q:142:ILE:HD12	1.76	0.51
30:R:20:ALA:CB	30:R:31:VAL:HG21	2.41	0.51
31:S:2:PHE:CE1	32:T:105:PRO:HG3	2.46	0.51
19:g:32:ILE:HA	19:g:82:GLY:HA2	1.91	0.51
24:l:235:GLY:C	24:l:236:LEU:HD12	2.35	0.51
25:m:23:VAL:CG1	25:m:27:MET:HE3	2.41	0.51
28:p:29:GLY:CA	28:p:34:MET:HA	2.41	0.51
28:p:113:ASP:CG	28:p:116:THR:H	2.19	0.51
29:q:10:PRO:HD2	29:q:12:TYR:CE1	2.46	0.51
30:r:177:TYR:CE1	30:r:186:ARG:HG3	2.46	0.51
1:U:496:LEU:HD12	1:U:497:LEU:HD12	1.93	0.51
1:U:521:LEU:HB2	1:U:554:LEU:HD21	1.91	0.51
1:U:684:ARG:O	1:U:688:LEU:HD13	2.11	0.51
2:V:128:ARG:NE	2:V:162:GLU:HG2	2.26	0.51
2:V:470:ARG:O	2:V:474:LEU:HG	2.10	0.51
3:W:178:GLU:H	3:W:182:ARG:HB2	1.76	0.51
3:W:287:VAL:HA	3:W:290:ILE:CG1	2.40	0.51
3:W:312:MET:HG2	3:W:315:MET:HE2	1.93	0.51
3:W:435:LEU:HD23	6:Z:236:LEU:HD11	1.93	0.51
5:Y:50:MET:CE	5:Y:74:LYS:HD2	2.41	0.51
7:a:257:GLN:NE2	7:a:259:PRO:HG2	2.25	0.51
9:c:192:LEU:CB	9:c:196:LEU:HB2	2.40	0.51
11:f:474:SER:O	11:f:478:ARG:HB3	2.11	0.51
11:f:798:THR:O	11:f:802:SER:N	2.43	0.51
11:f:827:PRO:HD2	11:f:849:ALA:CA	2.40	0.51
12:A:215:PHE:CE2	12:A:342:GLU:HB3	2.46	0.51
12:A:323:ARG:NH1	13:B:294:ARG:HG3	2.25	0.51
13:B:151:LEU:HB2	13:B:161:GLY:N	2.16	0.51
14:C:161:ILE:HA	14:C:164:VAL:CG1	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:C:164:VAL:CG2	14:C:186:VAL:HG22	2.40	0.51
16:E:322:LYS:HD3	16:E:326:ILE:CG1	2.41	0.51
17:F:183:GLU:OE1	17:F:238:ARG:HB3	2.10	0.51
19:G:139:ILE:C	19:G:140:LEU:HD12	2.35	0.51
21:I:123:GLN:NE2	22:J:82:ILE:HG13	2.24	0.51
23:K:91:LYS:HE2	23:K:119:LEU:HD11	1.93	0.51
24:L:132:LEU:HB2	24:L:147:THR:CG2	2.41	0.51
24:L:189:LYS:HA	24:L:192:LEU:CD2	2.41	0.51
25:M:234:GLU:O	25:M:238:TYR:CB	2.51	0.51
25:M:240:LYS:NZ	25:M:240:LYS:CB	2.73	0.51
27:O:63:LEU:HD11	27:O:79:ALA:HB2	1.92	0.51
28:P:2:SER:OG	28:P:3:ILE:N	2.42	0.51
28:P:189:ILE:CG2	28:P:196:THR:HB	2.41	0.51
29:Q:10:PRO:HD2	29:Q:12:TYR:CE1	2.46	0.51
19:g:97:GLU:OE2	19:g:121:ILE:HD11	2.10	0.51
20:h:210:VAL:CG1	20:h:221:LEU:HD12	2.41	0.51
21:i:44:LEU:CD2	21:i:189:ALA:HB1	2.40	0.51
24:l:207:THR:HG22	24:l:233:LEU:CD1	2.40	0.51
1:U:212:ASP:CB	1:U:216:VAL:HB	2.41	0.51
1:U:215:ASN:HA	1:U:218:GLN:CB	2.41	0.51
1:U:269:ARG:HB3	1:U:325:MET:HE1	1.93	0.51
1:U:678:ASP:OD2	1:U:683:VAL:HG11	2.11	0.51
1:U:684:ARG:NH2	1:U:723:ASP:OD2	2.44	0.51
2:V:467:TYR:CE2	5:Y:362:LYS:HE3	2.45	0.51
3:W:96:GLN:O	3:W:100:ALA:HB2	2.11	0.51
4:X:259:ILE:HD13	4:X:264:PRO:HA	1.92	0.51
4:X:395:LYS:HB3	9:c:242:GLU:OE2	2.10	0.51
5:Y:127:THR:HA	5:Y:130:LYS:HB3	1.92	0.51
5:Y:172:GLY:CA	5:Y:177:ARG:HB2	2.41	0.51
5:Y:316:LEU:HG	5:Y:352:GLU:HG3	1.91	0.51
6:Z:121:LEU:HD13	6:Z:123:ILE:HG13	1.91	0.51
6:Z:269:VAL:HG12	6:Z:273:HIS:HE1	1.76	0.51
7:a:272:ILE:HA	7:a:275:LEU:HB3	1.92	0.51
8:b:129:LYS:HA	8:b:132:LYS:HG3	1.92	0.51
9:c:31:VAL:CB	9:c:205:ILE:HG13	2.40	0.51
10:d:46:GLN:O	10:d:49:ILE:HB	2.11	0.51
11:f:527:VAL:HG12	11:f:565:ASN:HB2	1.90	0.51
11:f:556:ARG:NH1	11:f:786:GLN:HB2	2.26	0.51
11:f:850:VAL:HG12	33:v:209:LYS:HD2	1.92	0.51
12:A:120:LYS:HB2	17:F:90:VAL:HG21	1.93	0.51
12:A:284:ARG:HH11	17:F:334:ARG:HD3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B:423:LYS:CE	13:B:427:LEU:HD11	2.40	0.51
15:D:205:TYR:CE2	15:D:332:GLU:HB3	2.46	0.51
15:D:212:LYS:HA	15:D:333:PHE:CD2	2.46	0.51
15:D:274:ARG:HB2	16:E:245:GLU:CB	2.38	0.51
16:E:196:LEU:HB2	16:E:230:ILE:HD13	1.93	0.51
17:F:293:THR:HG23	17:F:337:ILE:CG2	2.41	0.51
19:G:28:ALA:O	19:G:31:ALA:HB3	2.11	0.51
19:G:43:ARG:HD2	19:G:149:PRO:HG2	1.93	0.51
19:G:200:THR:O	19:G:204:THR:HG23	2.10	0.51
21:I:3:ARG:HD2	24:L:123:TYR:OH	2.11	0.51
21:I:197:LEU:HA	21:I:200:THR:OG1	2.09	0.51
24:L:229:VAL:O	24:L:233:LEU:HG	2.10	0.51
25:M:237:LYS:NZ	25:M:237:LYS:CA	2.73	0.51
26:N:29:ARG:HH22	27:O:139:GLU:CG	2.23	0.51
28:P:29:GLY:CA	28:P:34:MET:HA	2.41	0.51
28:P:29:GLY:HA3	28:P:34:MET:HA	1.93	0.51
30:R:76:VAL:HG12	30:R:112:TYR:CD2	2.46	0.51
31:S:6:VAL:HG12	31:S:57:PHE:HE1	1.76	0.51
32:T:166:ARG:O	32:T:170:GLU:HG3	2.10	0.51
23:k:91:LYS:CE	23:k:119:LEU:HD21	2.39	0.51
24:l:229:VAL:O	24:l:233:LEU:HG	2.10	0.51
30:r:76:VAL:HG12	30:r:112:TYR:CD2	2.46	0.51
1:U:27:LEU:O	1:U:31:VAL:HB	2.10	0.51
1:U:169:GLU:HG3	1:U:171:ASN:HB2	1.91	0.51
1:U:323:LEU:O	1:U:327:LYS:HG3	2.10	0.51
1:U:624:PHE:H	1:U:658:ILE:HD12	1.74	0.51
1:U:817:LEU:HD12	1:U:818:GLU:N	2.26	0.51
2:V:28:PRO:HB2	2:V:29:PRO:HD3	1.92	0.51
2:V:107:ARG:HH22	2:V:141:THR:HG21	1.76	0.51
2:V:224:LEU:HD22	2:V:257:ASN:HD22	1.75	0.51
2:V:366:ALA:HB1	2:V:375:PHE:HB2	1.93	0.51
2:V:371:ASN:ND2	2:V:374:LYS:HB2	2.26	0.51
2:V:481:SER:HA	2:V:484:LEU:HG	1.92	0.51
3:W:227:TYR:HB3	3:W:246:HIS:CE1	2.46	0.51
3:W:397:VAL:CG1	4:X:341:PRO:HB3	2.40	0.51
4:X:157:LEU:CD1	4:X:169:VAL:HG21	2.41	0.51
5:Y:134:LEU:HA	5:Y:137:ARG:HB2	1.93	0.51
5:Y:285:ASP:O	5:Y:288:PHE:HE1	1.93	0.51
7:a:347:LYS:HD2	7:a:350:LYS:NZ	2.25	0.51
11:f:38:ASP:HB3	11:f:89:MET:HG2	1.91	0.51
11:f:408:LEU:HB2	11:f:439:TYR:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:418:LEU:O	11:f:451:VAL:HG22	2.11	0.51
11:f:634:LYS:HA	11:f:637:LYS:HZ3	1.76	0.51
11:f:665:GLU:OE2	11:f:669:GLU:HG3	2.11	0.51
11:f:707:LEU:O	11:f:745:LEU:HD21	2.09	0.51
11:f:839:PRO:HG3	12:A:361:SER:HA	1.93	0.51
11:f:860:LYS:HB3	11:f:862:ILE:HD12	1.92	0.51
14:C:270:GLN:O	14:C:274:LEU:HG	2.10	0.51
15:D:241:GLY:O	15:D:245:ARG:HG3	2.10	0.51
16:E:119:VAL:HG22	16:E:122:MET:CE	2.41	0.51
18:e:49:GLU:HA	18:e:56:LEU:CD1	2.41	0.51
19:G:124:VAL:HA	19:G:127:GLN:HB3	1.93	0.51
23:K:154:PHE:CE1	23:K:164:GLN:HB2	2.45	0.51
22:j:33:VAL:HG11	22:j:168:VAL:HG11	1.92	0.51
23:k:91:LYS:HE2	23:k:119:LEU:HD11	1.93	0.51
24:l:15:PRO:HA	25:m:25:TYR:CE1	2.46	0.51
24:l:189:LYS:HA	24:l:192:LEU:CD2	2.41	0.51
25:m:46:VAL:HG22	25:m:215:TRP:CD1	2.42	0.51
28:p:36:THR:OG1	28:p:38:ASP:OD1	2.12	0.51
29:q:85:ARG:HG3	29:q:124:LEU:HG	1.93	0.51
31:s:6:VAL:HG12	31:s:57:PHE:HE1	1.76	0.51
1:U:49:TYR:CE1	1:U:58:GLN:HA	2.38	0.51
1:U:74:PHE:HA	1:U:103:LYS:HZ2	1.75	0.51
1:U:645:ASN:HD22	1:U:646:PRO:HD2	1.76	0.51
2:V:29:PRO:O	2:V:32:PRO:HD2	2.11	0.51
2:V:157:THR:OG1	2:V:158:PRO:HD3	2.11	0.51
2:V:172:VAL:HG13	2:V:217:VAL:HG13	1.91	0.51
2:V:228:ARG:NH1	2:V:254:LEU:HA	2.26	0.51
3:W:128:LEU:HA	3:W:131:VAL:CG2	2.41	0.51
3:W:140:ILE:HG13	3:W:141:GLU:N	2.26	0.51
3:W:177:MET:SD	3:W:208:LYS:NZ	2.80	0.51
4:X:187:ARG:HE	4:X:217:ILE:HG22	1.75	0.51
4:X:260:MET:HE1	4:X:322:HIS:CD2	2.46	0.51
5:Y:305:SER:O	5:Y:309:GLU:HB2	2.10	0.51
6:Z:39:LEU:HB3	6:Z:93:GLY:C	2.36	0.51
6:Z:140:SER:HB2	6:Z:155:PHE:CD1	2.46	0.51
7:a:166:ILE:H	7:a:166:ILE:HD12	1.76	0.51
7:a:243:GLY:HA2	7:a:275:LEU:CG	2.39	0.51
9:c:281:LYS:H	9:c:284:LEU:HD23	1.76	0.51
11:f:23:GLY:C	11:f:31:LYS:HB2	2.36	0.51
11:f:302:GLY:HA2	11:f:317:LEU:HD21	1.93	0.51
11:f:462:ALA:O	11:f:466:LEU:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:680:ARG:HD2	11:f:763:ARG:HG3	1.92	0.51
11:f:850:VAL:HB	33:v:209:LYS:HZ2	1.77	0.51
12:A:172:VAL:HG21	12:A:227:ARG:CB	2.41	0.51
13:B:383:LEU:HD22	13:B:423:LYS:HD2	1.93	0.51
13:B:407:LEU:HD22	14:C:174:LEU:HD13	1.93	0.51
14:C:63:LEU:O	14:C:67:GLN:HG2	2.10	0.51
14:C:175:PHE:HB2	14:C:182:GLN:HG2	1.92	0.51
16:E:365:GLU:OE2	25:M:178:LYS:HD2	2.10	0.51
19:G:44:GLY:HA3	19:G:194:THR:HG21	1.93	0.51
20:H:96:GLN:O	20:H:100:VAL:HG23	2.11	0.51
21:I:22:GLU:O	21:I:26:GLU:HG2	2.11	0.51
21:I:125:GLY:HA2	22:J:3:TYR:CD2	2.46	0.51
23:K:219:THR:HB	23:K:221:GLN:NE2	2.25	0.51
29:Q:85:ARG:HG3	29:Q:124:LEU:HG	1.93	0.51
31:S:99:ARG:HD3	31:S:104:TYR:CE2	2.46	0.51
32:T:49:THR:HA	32:T:114:GLY:HA2	1.92	0.51
23:k:38:ILE:HG12	23:k:169:ALA:HB1	1.92	0.51
29:q:38:MET:HA	29:q:61:GLN:HE22	1.75	0.51
29:q:142:ILE:H	29:q:142:ILE:HD12	1.76	0.51
1:U:32:ASN:OD1	1:U:33:ASP:N	2.44	0.50
1:U:713:TYR:HB2	1:U:734:GLN:HE21	1.74	0.50
2:V:414:TYR:HA	5:Y:347:ILE:O	2.11	0.50
2:V:462:GLU:OE1	5:Y:357:ASN:ND2	2.44	0.50
3:W:163:ALA:HA	3:W:166:LEU:HD12	1.94	0.50
4:X:327:TYR:CE2	4:X:331:LEU:HD11	2.45	0.50
4:X:370:LEU:HD23	5:Y:309:GLU:HG2	1.93	0.50
5:Y:95:LEU:HB3	14:C:171:HIS:NE2	2.26	0.50
5:Y:301:ILE:HA	5:Y:304:TYR:CD2	2.46	0.50
10:d:7:GLY:HA3	10:d:18:LYS:NZ	2.26	0.50
11:f:476:THR:HA	11:f:479:LEU:CB	2.38	0.50
11:f:754:LYS:CA	33:v:213:ILE:HD11	2.32	0.50
11:f:815:HIS:CE1	11:f:879:ARG:HG3	2.46	0.50
13:B:374:LEU:HA	13:B:414:VAL:HG21	1.91	0.50
14:C:117:ARG:CD	14:C:120:SER:H	2.24	0.50
14:C:164:VAL:HG13	14:C:165:ILE:HG13	1.94	0.50
15:D:277:ALA:HB3	15:D:282:ASP:OD2	2.11	0.50
16:E:115:VAL:HG11	17:F:95:GLU:HB3	1.93	0.50
18:e:41:ASP:HA	18:e:45:ASP:CB	2.40	0.50
25:M:213:LEU:O	25:M:227:VAL:HG13	2.10	0.50
29:Q:45:LEU:HB2	29:Q:102:LEU:CG	2.42	0.50
30:R:20:ALA:HB2	30:R:31:VAL:HG21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:h:47:ALA:CB	20:h:210:VAL:HG22	2.41	0.50
27:o:172:ASN:OD1	27:o:191:VAL:HG22	2.11	0.50
28:p:29:GLY:HA3	28:p:34:MET:HA	1.93	0.50
28:p:54:ALA:O	28:p:105:THR:HA	2.11	0.50
29:q:3:TYR:CE2	29:q:5:ILE:HB	2.46	0.50
1:U:63:VAL:O	1:U:66:LYS:HB2	2.11	0.50
1:U:146:LYS:CE	1:U:148:LYS:HE3	2.41	0.50
1:U:183:LEU:HD22	1:U:187:LEU:HD21	1.93	0.50
1:U:202:VAL:HG21	1:U:219:CYS:SG	2.51	0.50
1:U:505:ASP:OD2	1:U:507:VAL:HG12	2.11	0.50
1:U:676:THR:CB	1:U:688:LEU:HD11	2.41	0.50
1:U:800:VAL:HG21	1:U:895:PRO:HG3	1.93	0.50
1:U:885:MET:HB3	1:U:888:GLN:HG3	1.93	0.50
2:V:337:LEU:HD22	2:V:342:ILE:HD12	1.91	0.50
3:W:200:ILE:O	3:W:204:ILE:HG12	2.12	0.50
4:X:377:ILE:HD12	5:Y:310:SER:HA	1.93	0.50
5:Y:50:MET:HE2	5:Y:74:LYS:HD2	1.92	0.50
5:Y:158:THR:HA	5:Y:187:TYR:CE1	2.46	0.50
5:Y:231:LEU:HD11	5:Y:236:LEU:N	2.25	0.50
6:Z:21:ASP:OD1	6:Z:22:HIS:N	2.44	0.50
6:Z:225:GLN:HG3	6:Z:226:ILE:HG13	1.93	0.50
7:a:8:LEU:HA	7:a:11:SER:OG	2.11	0.50
7:a:219:HIS:ND1	7:a:222:LEU:HG	2.26	0.50
9:c:122:LEU:HD11	9:c:160:PHE:HB2	1.94	0.50
9:c:134:GLU:HA	9:c:137:SER:O	2.11	0.50
10:d:59:ALA:HB1	10:d:71:PHE:CD1	2.46	0.50
11:f:272:LEU:HA	11:f:275:MET:HG2	1.93	0.50
13:B:223:ILE:HG21	13:B:334:ILE:CD1	2.42	0.50
14:C:104:ASP:HB2	14:C:107:ASP:OD2	2.11	0.50
14:C:250:GLU:HG3	14:C:295:THR:CA	2.35	0.50
14:C:301:LEU:HD23	14:C:301:LEU:H	1.77	0.50
16:E:264:MET:HE1	16:E:294:ARG:C	2.37	0.50
17:F:343:LEU:CD2	17:F:348:LEU:HD22	2.42	0.50
20:H:47:ALA:CB	20:H:210:VAL:HG22	2.41	0.50
20:H:137:CYS:HB3	20:H:146:LEU:HD13	1.93	0.50
25:M:152:ASP:OD2	25:M:154:SER:OG	2.28	0.50
29:Q:52:ASP:HB3	29:Q:56:PHE:CE2	2.46	0.50
20:h:96:GLN:O	20:h:100:VAL:HG23	2.11	0.50
21:i:123:GLN:NE2	22:j:82:ILE:HG13	2.26	0.50
24:l:186:GLU:CA	24:l:189:LYS:HE3	2.38	0.50
28:p:175:VAL:HG11	28:p:182:GLY:HA2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:q:52:ASP:HB3	29:q:56:PHE:CE2	2.46	0.50
30:r:20:ALA:HB2	30:r:31:VAL:HG21	1.93	0.50
32:t:96:MET:CE	32:t:106:LEU:HD12	2.34	0.50
1:U:95:GLU:O	1:U:98:GLU:HG2	2.12	0.50
1:U:567:ILE:CD1	1:U:585:THR:HG22	2.39	0.50
2:V:68:ASP:O	2:V:72:LEU:CB	2.33	0.50
2:V:144:ASP:HB2	2:V:150:ARG:NH2	2.27	0.50
2:V:157:THR:HA	2:V:160:LEU:HG	1.94	0.50
2:V:264:TYR:HB2	10:d:121:ARG:HH21	1.76	0.50
2:V:285:TRP:CD1	2:V:315:LYS:HE2	2.47	0.50
5:Y:148:GLY:CA	5:Y:157:ILE:HG21	2.41	0.50
5:Y:181:LYS:HE3	5:Y:215:ASP:OD2	2.12	0.50
7:a:163:TYR:HD1	7:a:171:SER:HG	1.58	0.50
8:b:141:ILE:CB	8:b:171:VAL:HG21	2.42	0.50
8:b:157:VAL:HG13	8:b:168:SER:HB2	1.93	0.50
9:c:115:HIS:ND1	9:c:144:VAL:HG13	2.26	0.50
10:d:96:HIS:HB3	10:d:130:ASN:ND2	2.25	0.50
10:d:141:GLN:HA	10:d:144:MET:CG	2.40	0.50
11:f:99:LEU:HG	11:f:101:PRO:CD	2.37	0.50
11:f:180:GLN:O	11:f:183:PRO:HD2	2.11	0.50
11:f:690:VAL:O	11:f:694:LEU:HD23	2.11	0.50
11:f:764:LEU:HD12	11:f:771:LEU:CD1	2.42	0.50
12:A:312:ARG:CB	12:A:315:ILE:HD13	2.40	0.50
12:A:397:ILE:HD13	13:B:211:TYR:CD1	2.45	0.50
13:B:303:ARG:HG2	13:B:307:ARG:NH2	2.27	0.50
15:D:281:ALA:HB2	16:E:208:ILE:HD12	1.94	0.50
15:D:316:THR:C	15:D:317:LEU:HD12	2.36	0.50
15:D:409:LYS:HE2	16:E:387:LYS:NZ	2.26	0.50
17:F:339:ASP:H	17:F:342:LEU:HD12	1.76	0.50
22:J:180:ALA:CB	22:J:190:LEU:HD22	2.36	0.50
24:L:174:ARG:HG3	24:L:175:HIS:HD1	1.76	0.50
25:M:50:GLU:OE2	25:M:209:PHE:CD2	2.64	0.50
25:M:240:LYS:NZ	25:M:240:LYS:CA	2.75	0.50
26:N:45:ARG:HD2	26:N:52:THR:OG1	2.11	0.50
29:Q:38:MET:HA	29:Q:61:GLN:HE22	1.75	0.50
19:g:128:ASN:OD1	19:g:129:ALA:N	2.44	0.50
32:t:49:THR:HA	32:t:114:GLY:HA2	1.92	0.50
1:U:59:PHE:O	1:U:62:LEU:HB2	2.12	0.50
1:U:208:LEU:HD23	1:U:209:GLU:N	2.27	0.50
2:V:411:SER:HB2	2:V:447:ILE:CG1	2.41	0.50
3:W:128:LEU:HD13	3:W:131:VAL:CG2	2.34	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:162:ALA:O	3:W:165:ILE:HG22	2.12	0.50
3:W:422:ASN:HB2	6:Z:252:LYS:NZ	2.26	0.50
5:Y:138:LEU:HD13	5:Y:175:ASP:OD1	2.11	0.50
5:Y:364:TRP:NE1	5:Y:368:GLU:OE2	2.44	0.50
6:Z:170:VAL:CA	9:c:152:LYS:HA	2.40	0.50
7:a:74:LEU:CD2	7:a:113:LEU:HD21	2.41	0.50
8:b:132:LYS:HE2	8:b:159:THR:O	2.11	0.50
10:d:191:PHE:CE1	10:d:195:THR:HG21	2.46	0.50
11:f:302:GLY:CA	11:f:317:LEU:HD21	2.41	0.50
11:f:483:PHE:HA	11:f:521:ALA:CB	2.42	0.50
12:A:312:ARG:CD	12:A:315:ILE:HB	2.42	0.50
13:B:86:LYS:O	13:B:86:LYS:HG2	2.11	0.50
13:B:179:ALA:HB1	13:B:241:ASN:OD1	2.11	0.50
17:F:121:CYS:SG	17:F:122:ALA:N	2.84	0.50
19:G:78:CYS:HB2	19:G:138:MET:HE3	1.93	0.50
20:H:35:SER:CB	20:H:48:THR:HA	2.42	0.50
23:K:110:GLU:HG3	23:K:162:PHE:HE2	1.76	0.50
23:K:170:ILE:HA	23:K:174:SER:CB	2.42	0.50
26:N:29:ARG:HB3	32:t:209:TRP:HZ3	1.76	0.50
26:N:95:MET:CA	26:N:116:MET:HE3	2.41	0.50
28:P:113:ASP:CG	28:P:116:THR:H	2.18	0.50
28:P:164:PHE:CZ	28:P:198:ARG:HD2	2.47	0.50
29:Q:107:TYR:HB2	29:Q:183:ILE:CG2	2.42	0.50
19:g:28:ALA:O	19:g:31:ALA:HB3	2.11	0.50
19:g:43:ARG:HD2	19:g:149:PRO:HG2	1.93	0.50
19:g:143:ILE:HG21	19:g:222:VAL:HG22	1.94	0.50
21:i:22:GLU:O	21:i:26:GLU:HG2	2.11	0.50
23:k:49:ALA:HB2	23:k:217:LEU:CD2	2.41	0.50
24:l:39:LYS:HZ3	24:l:143:HIS:HA	1.74	0.50
25:m:197:ILE:HA	25:m:200:VAL:CG1	2.41	0.50
25:m:236:GLU:O	25:m:240:LYS:HG3	2.11	0.50
26:n:45:ARG:HA	26:n:98:ILE:HD13	1.91	0.50
27:o:48:THR:HG22	27:o:51:ASP:H	1.75	0.50
32:t:70:MET:O	32:t:73:ASP:HB2	2.12	0.50
1:U:101:ILE:HD12	1:U:137:MET:CE	2.41	0.50
1:U:541:HIS:HE1	9:c:63:ASP:HB3	1.76	0.50
2:V:423:ALA:O	2:V:428:LEU:HD23	2.11	0.50
2:V:467:TYR:OH	6:Z:251:LEU:O	2.27	0.50
4:X:183:LEU:HB3	4:X:184:PRO:HD3	1.92	0.50
5:Y:158:THR:HG22	5:Y:187:TYR:HE1	1.77	0.50
5:Y:349:LYS:O	5:Y:351:ASN:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:127:ASP:HA	7:a:131:THR:HG21	1.93	0.50
9:c:172:HIS:ND1	9:c:173:GLU:HG3	2.27	0.50
10:d:188:LYS:HB3	10:d:215:TRP:CZ3	2.44	0.50
11:f:241:PRO:HA	11:f:244:GLU:HB3	1.93	0.50
11:f:300:ARG:O	11:f:300:ARG:HG2	2.11	0.50
11:f:646:MET:CE	13:B:64:LYS:HA	2.41	0.50
11:f:669:GLU:HA	11:f:705:ASN:ND2	2.27	0.50
11:f:717:ALA:CA	11:f:760:PHE:CZ	2.91	0.50
11:f:877:GLY:O	11:f:878:GLU:HG2	2.12	0.50
12:A:303:ILE:HG23	12:A:336:ARG:HH12	1.77	0.50
13:B:149:SER:OG	13:B:163:LEU:HB3	2.12	0.50
14:C:161:ILE:HG22	14:C:165:ILE:HD12	1.94	0.50
15:D:236:VAL:O	16:E:209:GLY:N	2.45	0.50
15:D:284:GLU:O	15:D:287:ARG:HG2	2.12	0.50
17:F:217:ILE:HG13	17:F:218:GLN:N	2.27	0.50
19:G:143:ILE:HG21	19:G:222:VAL:HG22	1.94	0.50
20:H:91:ARG:HD2	27:O:68:LEU:HD23	1.93	0.50
22:J:160:ALA:O	22:J:165:ALA:HB1	2.10	0.50
23:K:202:LEU:C	23:K:206:MET:HE3	2.36	0.50
26:N:40:ARG:NE	26:N:103:TRP:HE3	2.05	0.50
28:P:59:ASP:OD2	28:P:104:TYR:N	2.28	0.50
28:P:205:ASP:HB3	30:r:192:VAL:HG11	1.94	0.50
30:R:104:TRP:CZ2	30:R:108:GLY:HA2	2.47	0.50
31:S:28:ARG:NH1	31:S:189:THR:O	2.45	0.50
22:j:104:VAL:HG13	22:j:145:TYR:HE2	1.75	0.50
24:l:132:LEU:HB2	24:l:147:THR:CG2	2.41	0.50
27:o:73:LEU:HD12	27:o:74:PRO:CD	2.42	0.50
28:p:189:ILE:CG2	28:p:196:THR:HB	2.41	0.50
29:q:45:LEU:HB2	29:q:102:LEU:CG	2.42	0.50
29:q:107:TYR:HB2	29:q:183:ILE:CG2	2.42	0.50
30:r:20:ALA:CB	30:r:31:VAL:HG21	2.41	0.50
1:U:226:PRO:HG3	1:U:260:PHE:CE1	2.46	0.50
1:U:325:MET:O	1:U:329:LEU:HB2	2.11	0.50
1:U:646:PRO:CG	1:U:680:VAL:HG21	2.41	0.50
2:V:128:ARG:HD2	2:V:171:VAL:HG21	1.92	0.50
2:V:354:LYS:HA	2:V:357:LEU:HD21	1.93	0.50
3:W:268:LYS:CG	3:W:333:LEU:HD21	2.41	0.50
4:X:245:PRO:O	4:X:248:ILE:HG22	2.11	0.50
4:X:252:LYS:O	4:X:256:LEU:HB2	2.12	0.50
4:X:347:ILE:HG23	4:X:383:GLY:O	2.11	0.50
5:Y:278:VAL:O	5:Y:281:GLU:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:40:LEU:HB2	6:Z:52:ASN:C	2.36	0.50
6:Z:124:ILE:HA	6:Z:135:THR:HG22	1.93	0.50
6:Z:246:VAL:CG1	10:d:235:THR:HG21	2.42	0.50
8:b:124:LEU:HB2	8:b:156:PHE:HD1	1.77	0.50
8:b:161:ASN:HB2	8:b:165:GLY:HA3	1.93	0.50
11:f:180:GLN:C	11:f:183:PRO:HD2	2.36	0.50
11:f:274:ASP:O	11:f:278:VAL:HG23	2.11	0.50
11:f:329:ASN:C	11:f:333:LEU:HD23	2.32	0.50
11:f:616:CYS:HB2	11:f:629:LYS:CG	2.38	0.50
13:B:119:ASN:O	13:B:135:ILE:HG12	2.11	0.50
13:B:356:PRO:O	13:B:361:LYS:HE3	2.12	0.50
14:C:287:LYS:CB	14:C:287:LYS:NZ	2.73	0.50
14:C:376:VAL:HG11	15:D:193:GLN:CD	2.37	0.50
15:D:133:HIS:HB3	15:D:137:ASN:H	1.75	0.50
15:D:183:LEU:HB3	15:D:184:PRO:HD3	1.94	0.50
16:E:238:ILE:HD12	16:E:253:ILE:HG23	1.93	0.50
16:E:364:GLN:HA	16:E:367:PHE:CD2	2.46	0.50
17:F:318:ASP:HB3	17:F:347:ARG:NE	2.27	0.50
19:G:79:VAL:CG1	19:G:139:ILE:HB	2.42	0.50
23:K:49:ALA:HB2	23:K:217:LEU:CD2	2.41	0.50
26:N:144:ARG:N	26:N:147:MET:HE3	2.25	0.50
28:P:54:ALA:O	28:P:105:THR:HA	2.11	0.50
29:Q:102:LEU:HD13	29:Q:103:LEU:O	2.11	0.50
22:j:109:ARG:HG2	22:j:153:TYR:CE1	2.46	0.50
25:m:53:VAL:HG22	25:m:58:TYR:OH	2.12	0.50
25:m:173:LYS:CA	25:m:176:ILE:HD12	2.31	0.50
26:n:144:ARG:N	26:n:147:MET:HE3	2.25	0.50
30:r:104:TRP:CZ2	30:r:108:GLY:HA2	2.47	0.50
1:U:546:ARG:HD3	1:U:771:PHE:HD2	1.77	0.50
2:V:416:ARG:HD3	5:Y:351:ASN:OD1	2.12	0.50
2:V:423:ALA:CB	2:V:428:LEU:HG	2.40	0.50
2:V:481:SER:O	2:V:484:LEU:HG	2.12	0.50
3:W:83:LEU:O	3:W:88:MET:HA	2.12	0.50
3:W:369:TYR:O	7:a:324:ILE:HB	2.11	0.50
4:X:157:LEU:CD2	4:X:165:LEU:HD23	2.42	0.50
4:X:375:HIS:O	4:X:387:ILE:HG23	2.12	0.50
5:Y:191:ILE:HB	5:Y:290:PRO:HD3	1.94	0.50
5:Y:325:VAL:CG2	18:e:66:LYS:HD2	2.39	0.50
6:Z:230:LEU:O	6:Z:233:VAL:HB	2.12	0.50
7:a:331:VAL:HG12	7:a:333:MET:CE	2.41	0.50
8:b:26:LEU:HD21	8:b:80:PRO:HG3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:33:ILE:HG12	9:c:207:TYR:HA	1.93	0.50
10:d:189:ILE:HB	10:d:193:GLU:CB	2.42	0.50
10:d:212:LYS:O	10:d:213:ARG:NE	2.41	0.50
11:f:351:THR:HG22	11:f:723:TYR:OH	2.11	0.50
12:A:211:GLY:HA3	12:A:336:ARG:O	2.10	0.50
12:A:278:ASP:OD1	12:A:327:LEU:HD21	2.12	0.50
14:C:127:LEU:CD1	15:D:112:TYR:HE1	2.21	0.50
15:D:234:GLU:CA	16:E:216:ARG:HH22	2.23	0.50
16:E:40:TYR:CE1	17:F:72:LYS:HB3	2.46	0.50
16:E:235:ILE:HD11	16:E:277:MET:CG	2.42	0.50
17:F:393:GLY:HA3	35:F:501:ATP:N7	2.26	0.50
19:G:62:ASP:HA	25:M:161:TRP:CH2	2.46	0.50
19:G:128:ASN:OD1	19:G:129:ALA:N	2.44	0.50
21:I:14:PRO:HA	22:J:21:TYR:HE1	1.77	0.50
25:M:46:VAL:HG22	25:M:215:TRP:CD1	2.42	0.50
25:M:136:MET:HE3	25:M:148:LEU:HD11	1.94	0.50
25:M:191:LYS:NZ	25:M:234:GLU:CD	2.70	0.50
29:Q:3:TYR:CE2	29:Q:5:ILE:HB	2.46	0.50
31:S:99:ARG:HH21	31:S:102:PHE:HD2	1.60	0.50
32:T:20:VAL:HG23	32:T:120:SER:HB3	1.94	0.50
19:g:123:GLN:HG2	20:h:85:VAL:CG2	2.42	0.50
21:i:83:ALA:O	21:i:87:THR:HG23	2.12	0.50
22:j:76:LEU:HD11	22:j:79:ASP:CG	2.37	0.50
25:m:102:PHE:CE1	26:n:82:LEU:HD21	2.44	0.50
26:n:19:ARG:HB2	26:n:171:GLY:C	2.36	0.50
26:n:95:MET:CA	26:n:116:MET:HE3	2.41	0.50
27:o:92:GLY:HA2	27:o:115:PRO:O	2.12	0.50
28:p:164:PHE:CZ	28:p:198:ARG:HD2	2.47	0.50
32:t:43:MET:SD	32:t:64:LYS:HA	2.51	0.50
1:U:11:LEU:HD23	10:d:77:GLN:HG2	1.93	0.50
1:U:35:TRP:CZ2	1:U:66:LYS:HB3	2.47	0.50
1:U:233:LEU:HD11	1:U:328:ILE:HD11	1.94	0.50
2:V:80:LYS:O	2:V:86:VAL:HB	2.12	0.50
2:V:393:THR:O	2:V:396:ILE:HG22	2.12	0.50
2:V:410:ILE:HG21	2:V:422:ILE:HG13	1.93	0.50
2:V:423:ALA:O	2:V:428:LEU:HB2	2.11	0.50
3:W:111:TYR:HB3	3:W:115:ILE:CG2	2.42	0.50
3:W:141:GLU:O	3:W:144:ARG:HB3	2.12	0.50
4:X:55:SER:O	4:X:59:LYS:HG2	2.11	0.50
4:X:150:GLY:HA2	4:X:154:LEU:CG	2.40	0.50
4:X:211:ASP:HB2	4:X:235:ALA:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:332:GLU:O	4:X:336:ILE:HG23	2.11	0.50
4:X:379:ASP:CB	5:Y:313:SER:HB3	2.41	0.50
5:Y:189:VAL:CG2	5:Y:193:ASP:H	2.24	0.50
6:Z:56:VAL:HG23	6:Z:74:TYR:HD2	1.76	0.50
6:Z:77:ASN:CB	9:c:98:MET:HE1	2.42	0.50
7:a:277:LEU:O	7:a:281:THR:HG22	2.12	0.50
9:c:58:LEU:HD21	9:c:106:GLU:OE2	2.11	0.50
9:c:265:MET:HG2	9:c:269:GLN:HB2	1.94	0.50
11:f:45:LEU:HD22	11:f:56:LEU:HD13	1.94	0.50
11:f:65:GLU:OE1	11:f:97:LYS:HB3	2.12	0.50
11:f:102:HIS:CE1	11:f:106:LEU:HD13	2.47	0.50
11:f:302:GLY:HA3	11:f:321:MET:SD	2.52	0.50
11:f:467:SER:HA	11:f:470:VAL:HG22	1.94	0.50
11:f:640:LYS:CE	11:f:651:GLY:HA3	2.42	0.50
11:f:672:LEU:HG	11:f:709:THR:HB	1.94	0.50
11:f:687:ARG:HA	11:f:713:PHE:CZ	2.46	0.50
11:f:697:ILE:O	11:f:706:ILE:HG13	2.12	0.50
13:B:125:THR:OG1	13:B:126:SER:N	2.45	0.50
13:B:313:LEU:O	13:B:316:LEU:HB3	2.12	0.50
15:D:292:LEU:O	15:D:296:MET:CB	2.59	0.50
16:E:82:GLY:O	16:E:106:THR:HB	2.11	0.50
16:E:127:PRO:CD	17:F:321:GLN:HG2	2.40	0.50
17:F:192:ASP:OD2	25:M:204:VAL:HB	2.09	0.50
20:H:134:LEU:HB2	20:H:149:SER:OG	2.12	0.50
21:I:124:PHE:HB2	22:J:123:GLY:O	2.12	0.50
22:J:65:LEU:HD12	22:J:69:VAL:CG1	2.42	0.50
23:K:36:THR:CA	23:K:171:GLY:HA3	2.29	0.50
25:M:178:LYS:HE2	25:M:178:LYS:HA	1.94	0.50
27:O:36:PHE:HA	27:O:42:TYR:CD1	2.47	0.50
28:P:178:ASP:OD1	28:P:179:ALA:N	2.43	0.50
31:S:26:ASP:HA	31:S:192:ALA:O	2.12	0.50
20:h:134:LEU:HB2	20:h:149:SER:OG	2.12	0.50
22:j:68:ASN:ND2	22:j:137:ASP:HA	2.27	0.50
23:k:71:ASP:CB	23:k:74:ILE:HD12	2.42	0.50
23:k:141:LEU:HB2	23:k:156:MET:HG2	1.93	0.50
24:l:16:GLN:OE1	24:l:18:ARG:NH2	2.28	0.50
26:n:45:ARG:HD2	26:n:52:THR:OG1	2.11	0.50
29:q:102:LEU:HD13	29:q:103:LEU:O	2.11	0.50
31:s:155:PHE:HA	31:s:158:MET:CE	2.42	0.50
2:V:139:MET:CA	2:V:143:ALA:HB2	2.39	0.50
2:V:218:TYR:CD1	2:V:221:LEU:HD21	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:288:TYR:O	2:V:292:THR:HG22	2.12	0.50
2:V:479:ARG:HB2	6:Z:261:TYR:HE1	1.77	0.50
3:W:133:GLU:HG2	15:D:391:ARG:HD2	1.92	0.50
5:Y:113:ARG:O	5:Y:114:ILE:HD13	2.12	0.50
6:Z:23:PHE:CA	6:Z:35:VAL:HG21	2.37	0.50
6:Z:39:LEU:HD12	6:Z:53:SER:OG	2.11	0.50
7:a:73:PRO:CG	7:a:104:VAL:HG11	2.41	0.50
7:a:216:LEU:HA	7:a:219:HIS:HB2	1.92	0.50
11:f:719:PRO:HB3	33:v:213:ILE:HG23	1.94	0.50
11:f:814:SER:HB3	11:f:821:LEU:HB2	1.92	0.50
14:C:20:LEU:HD12	14:C:21:ARG:N	2.27	0.50
14:C:152:GLY:HA3	14:C:324:ALA:HA	1.93	0.50
16:E:249:ALA:O	16:E:253:ILE:HG12	2.11	0.50
17:F:96:LEU:HG	17:F:122:ALA:HB2	1.94	0.50
17:F:265:ALA:CA	17:F:312:GLU:HG2	2.32	0.50
21:I:83:ALA:O	21:I:87:THR:HG23	2.12	0.50
23:K:13:ASN:OD1	24:L:126:ARG:HD3	2.11	0.50
23:K:16:SER:HA	23:K:22:PHE:CE1	2.47	0.50
23:K:71:ASP:CB	23:K:74:ILE:HD12	2.42	0.50
24:L:66:VAL:O	31:S:77:HIS:NE2	2.45	0.50
31:S:33:PHE:O	27:o:167:LEU:HG	2.12	0.50
31:S:68:ILE:O	31:S:72:LEU:HG	2.12	0.50
32:T:146:ALA:O	32:T:150:LEU:HG	2.12	0.50
20:h:29:VAL:HG21	20:h:151:PRO:HG3	1.92	0.50
22:j:92:GLN:HG2	29:q:66:LEU:CD2	2.42	0.50
24:l:52:ALA:HB2	24:l:59:HIS:CD2	2.47	0.50
25:m:98:PHE:CG	25:m:106:ILE:HD13	2.47	0.50
25:m:175:GLU:OE1	25:m:175:GLU:N	2.36	0.50
25:m:215:TRP:CB	25:m:227:VAL:HG12	2.41	0.50
27:o:36:PHE:HA	27:o:42:TYR:CD1	2.47	0.50
1:U:48:LEU:HD12	1:U:60:ALA:HB2	1.94	0.49
1:U:119:PRO:C	1:U:123:LYS:HD3	2.37	0.49
1:U:685:GLN:HE22	1:U:689:ILE:HD11	1.77	0.49
2:V:84:LYS:HG2	2:V:122:THR:HA	1.93	0.49
3:W:101:VAL:O	3:W:104:MET:HB2	2.12	0.49
3:W:219:THR:HG22	3:W:223:LYS:H	1.76	0.49
3:W:260:SER:HA	3:W:263:TRP:CE3	2.43	0.49
6:Z:20:VAL:HG21	9:c:216:MET:SD	2.51	0.49
6:Z:62:ASP:OD1	6:Z:63:LYS:N	2.45	0.49
6:Z:250:TYR:CZ	10:d:235:THR:HB	2.47	0.49
7:a:15:GLY:HA3	7:a:22:TRP:HE1	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d:178:ILE:HD13	10:d:198:LEU:HD22	1.93	0.49
10:d:194:ALA:O	10:d:198:LEU:HD12	2.11	0.49
10:d:215:TRP:HA	10:d:223:TYR:H	1.77	0.49
11:f:95:PRO:HB2	11:f:96:LEU:HD12	1.94	0.49
11:f:339:ILE:HG22	11:f:340:MET:HB2	1.94	0.49
11:f:395:GLY:O	11:f:399:LEU:HB3	2.11	0.49
11:f:516:GLY:O	11:f:520:LEU:HG	2.12	0.49
11:f:719:PRO:HB3	33:v:213:ILE:HD13	1.93	0.49
11:f:835:GLU:OE2	13:B:54:PRO:HA	2.12	0.49
12:A:183:GLN:HG2	12:A:343:PHE:CD1	2.47	0.49
12:A:293:ASN:O	12:A:296:GLN:HB3	2.12	0.49
12:A:300:LEU:HD13	17:F:290:ALA:HB2	1.93	0.49
13:B:119:ASN:O	13:B:135:ILE:N	2.39	0.49
13:B:143:LEU:CD1	13:B:162:VAL:HG11	2.35	0.49
14:C:186:VAL:HB	14:C:292:ILE:HA	1.94	0.49
16:E:227:PRO:HA	16:E:272:ARG:HB3	1.94	0.49
19:G:195:VAL:O	19:G:199:ILE:HD12	2.12	0.49
24:L:44:ALA:HB3	24:L:215:VAL:HG12	1.94	0.49
27:O:92:GLY:HA2	27:O:115:PRO:O	2.12	0.49
27:O:172:ASN:OD1	27:O:191:VAL:HG22	2.11	0.49
27:O:203:ARG:NH2	28:P:155:GLU:OE1	2.45	0.49
20:h:14:SER:HB3	20:h:15:PRO:HD2	1.94	0.49
22:j:76:LEU:CD1	22:j:79:ASP:H	2.23	0.49
22:j:115:LYS:HG3	22:j:127:PHE:HD2	1.77	0.49
24:l:228:ASP:C	24:l:231:PRO:HD2	2.37	0.49
27:o:20:ALA:HB3	27:o:28:ASP:CB	2.36	0.49
1:U:142:LEU:HD11	1:U:165:LYS:HZ1	1.77	0.49
2:V:31:ALA:O	2:V:35:VAL:HG22	2.11	0.49
2:V:92:ARG:HD3	2:V:111:TYR:HA	1.94	0.49
2:V:479:ARG:NH2	5:Y:374:ASP:OD1	2.45	0.49
3:W:68:VAL:CA	3:W:71:VAL:HG12	2.40	0.49
7:a:370:GLN:HG3	10:d:247:ILE:CG2	2.42	0.49
9:c:186:LYS:NZ	9:c:186:LYS:CB	2.73	0.49
11:f:285:CYS:O	11:f:289:VAL:HG23	2.12	0.49
11:f:846:VAL:HG11	12:A:171:ASP:OD1	2.12	0.49
13:B:196:GLU:OE1	13:B:349:ARG:NH1	2.45	0.49
14:C:113:ARG:HH21	14:C:129:ASN:HA	1.77	0.49
14:C:162:LYS:HG2	14:C:166:GLU:CD	2.38	0.49
14:C:185:GLY:CA	14:C:311:ILE:HG22	2.31	0.49
14:C:238:ALA:HB2	14:C:246:ILE:HD11	1.94	0.49
15:D:39:ASP:O	15:D:43:ARG:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:D:83:GLN:HE21	15:D:140:VAL:HG12	1.77	0.49
15:D:132:LEU:HD23	15:D:139:LEU:HA	1.94	0.49
19:G:217:VAL:HG11	19:G:230:LEU:HD22	1.93	0.49
22:J:76:LEU:HD11	22:J:79:ASP:CG	2.37	0.49
23:K:17:PRO:HA	24:L:24:TYR:CE2	2.46	0.49
23:K:99:HIS:CG	23:K:107:MET:HB2	2.47	0.49
25:M:55:SER:H	25:M:57:LEU:CD2	2.24	0.49
25:M:98:PHE:CG	25:M:106:ILE:HD13	2.47	0.49
27:O:5:GLY:HA3	27:O:14:LEU:CD2	2.37	0.49
32:T:43:MET:SD	32:T:64:LYS:HA	2.51	0.49
29:q:23:SER:CB	29:q:28:MET:HE2	2.42	0.49
31:s:68:ILE:O	31:s:72:LEU:HG	2.12	0.49
1:U:98:GLU:HA	1:U:101:ILE:HD11	1.95	0.49
1:U:154:ALA:O	1:U:157:THR:HG22	2.13	0.49
1:U:349:ASP:HB3	1:U:352:ILE:CD1	2.42	0.49
1:U:365:CYS:O	1:U:369:THR:HG23	2.11	0.49
1:U:574:LYS:HD3	1:U:574:LYS:H	1.78	0.49
2:V:110:HIS:HA	2:V:113:LEU:HB2	1.94	0.49
2:V:464:ILE:HG21	5:Y:360:ASP:OD2	2.11	0.49
3:W:130:MET:O	3:W:135:LYS:HG3	2.12	0.49
4:X:335:LEU:HA	4:X:338:VAL:CG2	2.41	0.49
5:Y:214:MET:SD	5:Y:218:THR:OG1	2.69	0.49
6:Z:280:ILE:HG23	6:Z:284:ASP:OD2	2.13	0.49
7:a:252:LYS:HD2	7:a:255:TRP:CD1	2.47	0.49
8:b:6:THR:OG1	8:b:40:LYS:HE3	2.12	0.49
9:c:75:MET:CB	9:c:76:PRO:HD2	2.23	0.49
10:d:204:LYS:O	10:d:207:THR:HB	2.11	0.49
11:f:43:GLN:O	11:f:47:GLU:HB3	2.13	0.49
11:f:178:LYS:HB3	11:f:181:ARG:HB3	1.93	0.49
11:f:288:VAL:O	11:f:292:LYS:NZ	2.31	0.49
11:f:559:PRO:HA	11:f:562:LEU:CD1	2.41	0.49
13:B:93:GLU:O	13:B:97:SER:CB	2.60	0.49
13:B:369:THR:HG23	13:B:399:CYS:SG	2.53	0.49
13:B:426:VAL:HG22	13:B:429:LYS:HD2	1.92	0.49
14:C:27:LYS:HG3	15:D:44:TYR:CE1	2.47	0.49
14:C:70:GLY:HA3	14:C:118:ASN:ND2	2.26	0.49
14:C:117:ARG:HB3	14:C:121:TYR:N	2.26	0.49
15:D:154:LEU:HB2	15:D:227:PHE:HD2	1.76	0.49
15:D:344:ILE:O	15:D:348:ILE:HG12	2.11	0.49
16:E:222:ALA:HA	16:E:228:CYS:SG	2.52	0.49
19:G:236:ASP:O	19:G:240:VAL:HG22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:H:15:PRO:HA	21:I:23:TYR:CE1	2.47	0.49
23:K:49:ALA:HB2	23:K:217:LEU:HD23	1.94	0.49
25:M:53:VAL:HG22	25:M:58:TYR:OH	2.12	0.49
30:R:67:GLU:HG3	30:R:72:GLU:C	2.37	0.49
31:S:213:ASP:HB3	27:o:193:ASN:OD1	2.13	0.49
21:i:95:GLN:HG3	28:p:69:PHE:CD1	2.47	0.49
21:i:97:TYR:CG	21:i:105:ILE:HD13	2.48	0.49
23:k:21:LEU:CD1	23:k:24:VAL:HB	2.29	0.49
23:k:202:LEU:C	23:k:206:MET:HE3	2.37	0.49
23:k:236:GLU:CA	23:k:239:LYS:HE3	2.35	0.49
25:m:178:LYS:HE2	25:m:178:LYS:HA	1.94	0.49
30:r:177:TYR:CD1	30:r:186:ARG:HA	2.47	0.49
1:U:181:LEU:HD11	1:U:205:TYR:CE2	2.48	0.49
1:U:405:THR:HB	1:U:438:GLN:OE1	2.12	0.49
1:U:552:ILE:O	1:U:555:VAL:HG12	2.13	0.49
1:U:561:GLU:HG3	1:U:562:GLU:CD	2.37	0.49
1:U:573:ASP:OD1	1:U:574:LYS:N	2.45	0.49
1:U:584:TYR:CZ	1:U:768:GLN:NE2	2.79	0.49
2:V:305:ALA:CA	2:V:308:THR:HG22	2.42	0.49
3:W:26:GLN:C	3:W:29:PRO:HD2	2.37	0.49
3:W:145:LEU:HD22	3:W:185:PHE:CZ	2.47	0.49
3:W:147:LYS:O	3:W:151:THR:HG23	2.12	0.49
3:W:187:LEU:CD2	3:W:222:LEU:HD11	2.40	0.49
4:X:209:THR:HA	4:X:239:TYR:OH	2.11	0.49
5:Y:246:ILE:HD12	5:Y:249:VAL:CG2	2.43	0.49
5:Y:344:HIS:HE1	5:Y:359:PRO:HD3	1.78	0.49
7:a:34:TRP:CH2	7:a:68:GLU:HA	2.47	0.49
7:a:245:VAL:HG12	7:a:247:ARG:HE	1.77	0.49
8:b:85:THR:CG2	8:b:88:THR:HG22	2.42	0.49
8:b:124:LEU:HD22	8:b:152:LYS:O	2.13	0.49
10:d:191:PHE:O	10:d:195:THR:HB	2.12	0.49
11:f:305:LEU:O	11:f:314:TYR:HB3	2.12	0.49
14:C:251:ILE:HG13	14:C:252:ASP:N	2.28	0.49
17:F:84:LYS:HG2	17:F:88:TYR:OH	2.13	0.49
17:F:193:LYS:HZ1	25:M:204:VAL:HG23	1.69	0.49
20:H:34:PRO:HA	20:H:163:MET:O	2.13	0.49
24:L:216:GLY:HA3	24:L:219:LEU:HB3	1.95	0.49
27:O:212:LEU:HD11	28:P:201:LYS:HA	1.93	0.49
28:P:123:SER:C	28:P:124:LEU:HD12	2.38	0.49
31:S:155:PHE:HA	31:S:158:MET:CE	2.42	0.49
21:i:65:ILE:HD13	21:i:75:SER:OG	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:m:50:GLU:O	25:m:65:ARG:NH2	2.45	0.49
32:t:146:ALA:O	32:t:150:LEU:HG	2.12	0.49
1:U:580:ARG:CD	1:U:614:VAL:N	2.53	0.49
1:U:592:GLY:O	1:U:628:ARG:HD3	2.12	0.49
1:U:780:SER:HA	1:U:783:TYR:CD2	2.39	0.49
1:U:901:GLN:HB2	1:U:917:THR:HG21	1.94	0.49
2:V:144:ASP:HB2	2:V:150:ARG:HH21	1.77	0.49
2:V:412:LEU:O	5:Y:346:LYS:NZ	2.45	0.49
3:W:20:TYR:O	3:W:23:THR:OG1	2.25	0.49
3:W:106:GLN:O	3:W:110:THR:HG23	2.11	0.49
4:X:162:ASP:HB3	4:X:166:LEU:CD1	2.42	0.49
4:X:339:ILE:HA	4:X:342:PHE:CE1	2.47	0.49
4:X:402:GLU:HB2	9:c:249:LEU:CD1	2.42	0.49
5:Y:34:ASP:O	5:Y:38:ARG:HG3	2.12	0.49
6:Z:45:LYS:HB3	6:Z:47:VAL:HG12	1.94	0.49
6:Z:144:VAL:HA	6:Z:152:SER:HB3	1.95	0.49
6:Z:230:LEU:O	6:Z:230:LEU:HD13	2.12	0.49
8:b:90:ILE:O	8:b:94:HIS:HB2	2.12	0.49
8:b:93:ALA:O	8:b:97:LEU:HD13	2.12	0.49
11:f:78:LEU:HD13	11:f:82:ILE:CD1	2.43	0.49
11:f:291:GLN:HE21	11:f:879:ARG:HD2	1.75	0.49
11:f:405:HIS:CE1	11:f:793:VAL:HG13	2.47	0.49
11:f:485:LEU:HD11	11:f:497:VAL:HG21	1.94	0.49
12:A:125:LEU:HB2	12:A:129:VAL:CG2	2.43	0.49
12:A:314:ASN:HD21	33:v:203:PRO:CD	1.93	0.49
12:A:348:LEU:HA	12:A:351:ARG:NH2	2.28	0.49
13:B:287:ILE:HA	13:B:290:ILE:CG1	2.42	0.49
13:B:423:LYS:HE3	13:B:427:LEU:HD21	1.94	0.49
14:C:359:VAL:O	14:C:362:VAL:HB	2.13	0.49
14:C:365:GLU:HG3	14:C:390:VAL:HG22	1.94	0.49
15:D:300:ASP:OD1	15:D:302:ASN:N	2.36	0.49
19:G:196:GLU:O	19:G:200:THR:HG23	2.13	0.49
19:G:212:PRO:O	19:G:232:GLU:HG3	2.12	0.49
21:I:76:VAL:HG21	21:I:83:ALA:HB2	1.95	0.49
25:M:98:PHE:CE2	25:M:106:ILE:HA	2.47	0.49
27:O:49:ALA:O	27:O:52:THR:OG1	2.21	0.49
19:g:199:ILE:HG21	19:g:242:LEU:HD21	1.95	0.49
24:l:15:PRO:HA	25:m:25:TYR:CD1	2.47	0.49
24:l:84:LEU:HD11	24:l:128:TYR:HD2	1.77	0.49
29:q:50:ALA:HB1	30:r:119:ASN:OD1	2.13	0.49
30:r:100:MET:HG2	30:r:113:TYR:HD1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:109:THR:OG1	1:U:156:GLU:HB3	2.13	0.49
1:U:187:LEU:HB2	15:D:45:LYS:CE	2.38	0.49
1:U:540:GLN:HG2	9:c:62:VAL:HG21	1.94	0.49
1:U:803:LYS:HB2	1:U:875:PHE:CA	2.30	0.49
1:U:808:PRO:HB3	1:U:876:GLN:HE22	1.77	0.49
2:V:35:VAL:O	2:V:39:GLU:HG3	2.12	0.49
2:V:182:LYS:HE2	2:V:210:CYS:HB3	1.94	0.49
2:V:419:LEU:HA	2:V:422:ILE:CG2	2.38	0.49
4:X:45:VAL:HA	4:X:48:GLN:NE2	2.27	0.49
4:X:109:LEU:O	4:X:112:GLU:HB2	2.12	0.49
4:X:147:LEU:HD11	4:X:180:LEU:CD1	2.42	0.49
4:X:246:LYS:O	4:X:249:THR:HG22	2.12	0.49
4:X:336:ILE:CD1	4:X:337:ARG:HG3	2.43	0.49
5:Y:358:ARG:HB2	5:Y:359:PRO:HD2	1.94	0.49
6:Z:56:VAL:HA	6:Z:74:TYR:CE2	2.47	0.49
8:b:141:ILE:HG12	8:b:171:VAL:CG2	2.19	0.49
9:c:27:THR:HG21	9:c:65:TYR:CD1	2.47	0.49
10:d:171:LEU:O	10:d:175:ARG:HG2	2.12	0.49
11:f:559:PRO:HA	11:f:562:LEU:HD12	1.94	0.49
11:f:634:LYS:HA	11:f:637:LYS:HD2	1.94	0.49
12:A:161:VAL:O	12:A:164:MET:HG2	2.13	0.49
12:A:273:PHE:CE2	12:A:275:ASP:HB2	2.48	0.49
13:B:258:LYS:N	14:C:260:GLU:OE2	2.28	0.49
13:B:362:LYS:CG	13:B:384:ILE:HG21	2.42	0.49
14:C:201:ARG:HD2	14:C:211:PHE:CD2	2.47	0.49
15:D:138:ALA:O	15:D:140:VAL:HG23	2.13	0.49
15:D:283:ARG:HB3	15:D:287:ARG:NH1	2.16	0.49
17:F:393:GLY:HA3	35:F:501:ATP:C5	2.48	0.49
20:H:194:THR:O	20:H:197:GLU:HB3	2.13	0.49
24:L:92:CYS:HA	24:L:103:LEU:CD1	2.35	0.49
25:M:195:LYS:HD3	25:M:242:SER:HB3	1.95	0.49
26:N:3:ILE:HD12	26:N:99:ILE:HD12	1.93	0.49
32:T:70:MET:O	32:T:73:ASP:HB2	2.11	0.49
19:g:91:VAL:CG1	19:g:95:ARG:HE	2.25	0.49
24:l:44:ALA:HB3	24:l:215:VAL:HG12	1.94	0.49
25:m:140:TYR:HA	25:m:145:GLY:O	2.13	0.49
26:n:176:LEU:HD12	26:n:189:LEU:HD12	1.94	0.49
28:p:20:VAL:O	28:p:189:ILE:HD12	2.12	0.49
31:s:26:ASP:HA	31:s:192:ALA:O	2.12	0.49
1:U:176:MET:HA	1:U:179:TYR:CE2	2.47	0.49
1:U:337:LEU:HG	1:U:789:ILE:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:483:LEU:HD11	1:U:781:LEU:CD1	2.43	0.49
1:U:540:GLN:HG3	9:c:68:ARG:NH1	2.27	0.49
1:U:611:ASN:O	1:U:615:ARG:HG3	2.13	0.49
2:V:100:MET:O	2:V:104:THR:HG23	2.12	0.49
3:W:14:VAL:HG12	3:W:18:VAL:HG21	1.94	0.49
3:W:213:PHE:O	3:W:214:PHE:HB2	2.12	0.49
3:W:275:ILE:HD12	3:W:275:ILE:H	1.78	0.49
4:X:202:CYS:O	4:X:204:PRO:HD3	2.13	0.49
4:X:386:ILE:HD12	5:Y:312:ARG:HH11	1.78	0.49
5:Y:346:LYS:O	5:Y:355:GLU:HB3	2.12	0.49
7:a:148:VAL:HG12	7:a:150:SER:H	1.77	0.49
7:a:207:GLY:HA3	7:a:210:VAL:CG1	2.43	0.49
7:a:266:ALA:HA	7:a:269:LEU:HD12	1.94	0.49
10:d:132:TYR:CE1	10:d:159:PRO:HG2	2.48	0.49
11:f:680:ARG:HB2	11:f:763:ARG:HE	1.78	0.49
11:f:862:ILE:HD12	11:f:862:ILE:H	1.78	0.49
12:A:69:ASP:CG	12:A:72:LEU:HB2	2.37	0.49
12:A:119:ALA:HB1	17:F:89:LEU:HD11	1.95	0.49
12:A:396:ALA:CB	12:A:401:ARG:HB3	2.32	0.49
12:A:403:ILE:HA	13:B:214:MET:HG2	1.95	0.49
15:D:88:VAL:HG22	15:D:132:LEU:O	2.13	0.49
15:D:116:LEU:CD1	15:D:140:VAL:HG13	2.41	0.49
24:L:52:ALA:HB2	24:L:59:HIS:CD2	2.47	0.49
24:L:228:ASP:C	24:L:231:PRO:HD2	2.37	0.49
30:R:18:SER:OG	30:R:173:ALA:N	2.27	0.49
30:R:177:TYR:CD1	30:R:186:ARG:HA	2.47	0.49
20:h:35:SER:CB	20:h:48:THR:HA	2.42	0.49
20:h:46:LEU:O	20:h:210:VAL:HG13	2.13	0.49
25:m:108:LEU:HG	25:m:149:TYR:CD2	2.48	0.49
25:m:136:MET:HE3	25:m:148:LEU:HD11	1.94	0.49
27:o:179:SER:HG	27:o:182:LYS:N	2.08	0.49
28:p:66:ARG:O	28:p:69:PHE:HB3	2.13	0.49
30:r:67:GLU:HG3	30:r:72:GLU:C	2.37	0.49
31:s:28:ARG:NH1	31:s:189:THR:O	2.45	0.49
1:U:112:CYS:HB3	1:U:157:THR:O	2.13	0.49
1:U:500:ASN:CB	1:U:512:ALA:HB2	2.42	0.49
2:V:182:LYS:NZ	2:V:210:CYS:SG	2.69	0.49
3:W:183:VAL:O	3:W:186:ILE:HG22	2.11	0.49
5:Y:236:LEU:HD21	5:Y:240:VAL:HG11	1.94	0.49
5:Y:301:ILE:CD1	5:Y:342:ARG:HB3	2.43	0.49
6:Z:167:ALA:O	6:Z:170:VAL:HB	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:215:VAL:N	6:Z:220:LEU:HD22	2.27	0.49
6:Z:245:PHE:O	6:Z:248:ALA:HB3	2.12	0.49
7:a:100:THR:HG22	7:a:103:LYS:CE	2.41	0.49
8:b:111:ALA:HB3	8:b:140:ILE:HG23	1.93	0.49
10:d:1:MET:HG2	10:d:2:TYR:HD2	1.78	0.49
11:f:47:GLU:OE2	11:f:125:ILE:HD12	2.12	0.49
11:f:108:GLU:HG3	11:f:109:ILE:HG13	1.95	0.49
11:f:258:LYS:HZ2	11:f:261:ARG:HD3	1.77	0.49
11:f:446:LEU:HD11	11:f:483:PHE:CD2	2.47	0.49
11:f:637:LYS:HG2	11:f:674:THR:HA	1.94	0.49
11:f:683:GLU:O	11:f:687:ARG:CB	2.61	0.49
12:A:36:TYR:CE2	12:A:38:GLN:HG3	2.47	0.49
12:A:142:VAL:HG13	12:A:148:GLN:O	2.13	0.49
12:A:174:TYR:CD1	12:A:228:ALA:HB1	2.47	0.49
35:A:501:ATP:H5'2	13:B:343:ARG:NH1	2.28	0.49
13:B:246:THR:OG1	13:B:280:SER:HA	2.13	0.49
14:C:82:LYS:HE2	14:C:82:LYS:HA	1.95	0.49
14:C:257:SER:HB2	14:C:300:ILE:C	2.37	0.49
14:C:328:ILE:HG23	14:C:332:HIS:CD2	2.48	0.49
16:E:339:ASN:O	16:E:342:ASP:HB2	2.13	0.49
20:H:46:LEU:O	20:H:210:VAL:HG13	2.13	0.49
23:K:52:LYS:NZ	23:K:216:GLU:HB3	2.28	0.49
24:L:7:ASP:OD1	24:L:20:HIS:ND1	2.46	0.49
24:L:39:LYS:NZ	24:L:142:PRO:O	2.27	0.49
24:L:164:ARG:HD2	24:L:198:THR:C	2.38	0.49
25:M:23:VAL:CG1	25:M:27:MET:HE3	2.41	0.49
27:O:50:ALA:HB3	28:P:127:ILE:HD12	1.95	0.49
28:P:149:MET:HE1	31:s:148:LEU:HB2	1.93	0.49
29:Q:68:LYS:HA	29:Q:73:TYR:O	2.12	0.49
31:S:185:ARG:NH2	28:p:151:GLU:OE2	2.45	0.49
19:g:44:GLY:HA3	19:g:194:THR:HG21	1.93	0.49
21:i:119:GLN:OE1	22:j:78:ALA:HB1	2.12	0.49
22:j:65:LEU:HD12	22:j:69:VAL:CG1	2.42	0.49
23:k:107:MET:SD	23:k:112:VAL:HG22	2.53	0.49
27:o:117:GLY:O	27:o:119:THR:HG23	2.13	0.49
30:r:40:TYR:CD2	30:r:41:LEU:HG	2.48	0.49
1:U:14:GLU:OE2	1:U:16:GLU:HG3	2.12	0.49
1:U:332:GLU:O	1:U:335:ILE:N	2.45	0.49
1:U:619:VAL:CG2	1:U:651:GLY:HA3	2.43	0.49
3:W:52:LYS:O	3:W:56:THR:HG23	2.12	0.49
3:W:72:LYS:HD2	3:W:123:ARG:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:414:LEU:HD21	6:Z:273:HIS:CD2	2.48	0.49
5:Y:358:ARG:HD3	5:Y:358:ARG:H	1.77	0.49
6:Z:86:ASN:OD1	6:Z:88:ARG:HB3	2.11	0.49
6:Z:136:GLU:OE2	6:Z:157:HIS:ND1	2.45	0.49
6:Z:143:GLU:HG2	6:Z:152:SER:OG	2.13	0.49
8:b:163:LYS:HE2	8:b:163:LYS:HA	1.95	0.49
9:c:266:THR:CG2	9:c:267:PRO:HD2	2.38	0.49
9:c:303:MET:CE	10:d:242:LEU:HB2	2.42	0.49
10:d:133:ILE:HG22	10:d:137:VAL:HG13	1.94	0.49
11:f:115:PRO:HD2	11:f:121:PHE:CE1	2.48	0.49
11:f:566:HIS:O	11:f:569:LYS:HG2	2.12	0.49
12:A:183:GLN:HB3	12:A:343:PHE:HE1	1.77	0.49
13:B:53:THR:HG22	13:B:54:PRO:HD3	1.95	0.49
13:B:117:ASP:OD1	13:B:117:ASP:N	2.46	0.49
13:B:222:VAL:HA	13:B:349:ARG:O	2.13	0.49
14:C:209:CYS:HA	14:C:243:PRO:O	2.13	0.49
21:I:91:ARG:HD3	28:P:76:LEU:CB	2.43	0.49
23:K:107:MET:SD	23:K:112:VAL:HG22	2.53	0.49
25:M:39:ILE:O	25:M:45:VAL:HG13	2.13	0.49
25:M:108:LEU:HG	25:M:149:TYR:CD2	2.48	0.49
25:M:209:PHE:CD1	25:M:209:PHE:N	2.73	0.49
19:g:79:VAL:CG1	19:g:139:ILE:HB	2.42	0.49
19:g:217:VAL:HG11	19:g:230:LEU:HD22	1.93	0.49
21:i:143:TYR:HB2	21:i:146:GLN:NE2	2.15	0.49
23:k:52:LYS:NZ	23:k:216:GLU:HB3	2.28	0.49
25:m:39:ILE:O	25:m:45:VAL:HG13	2.13	0.49
25:m:98:PHE:CE2	25:m:106:ILE:HA	2.47	0.49
27:o:178:ILE:HG12	27:o:183:LEU:CD1	2.43	0.49
31:s:99:ARG:HH21	31:s:102:PHE:HD2	1.60	0.49
1:U:596:ASN:C	1:U:599:ILE:HG22	2.38	0.49
2:V:162:GLU:O	2:V:167:LEU:HD23	2.12	0.49
2:V:278:GLU:HB3	2:V:279:GLN:OE1	2.11	0.49
3:W:252:ASP:HB3	3:W:256:ILE:CD1	2.42	0.49
3:W:338:THR:O	3:W:342:GLY:N	2.45	0.49
3:W:365:ILE:HA	3:W:368:LYS:HD2	1.95	0.49
3:W:448:LYS:HD2	6:Z:100:LYS:HD2	1.95	0.49
4:X:243:ASP:OD1	4:X:245:PRO:HD2	2.12	0.49
5:Y:144:LEU:HB3	5:Y:160:ASN:HD22	1.78	0.49
5:Y:314:LEU:HB3	5:Y:354:VAL:HB	1.95	0.49
6:Z:35:VAL:O	6:Z:96:HIS:HA	2.12	0.49
7:a:100:THR:HA	7:a:103:LYS:CG	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:122:LYS:NZ	7:a:129:GLN:HE21	2.11	0.49
7:a:188:LEU:HD11	7:a:192:GLU:HB3	1.95	0.49
9:c:141:VAL:HG22	9:c:161:ARG:CD	2.33	0.49
10:d:219:PRO:HG2	10:d:223:TYR:CE2	2.48	0.49
11:f:31:LYS:HG2	11:f:71:TYR:OH	2.13	0.49
11:f:162:LEU:O	11:f:165:GLU:HG3	2.13	0.49
11:f:425:GLY:O	11:f:429:ILE:HG12	2.12	0.49
11:f:449:GLY:HA2	11:f:452:ASN:OD1	2.13	0.49
11:f:467:SER:O	11:f:470:VAL:HG22	2.13	0.49
11:f:478:ARG:HG3	11:f:514:VAL:HG11	1.95	0.49
11:f:779:CYS:HB3	11:f:780:PRO:HD3	1.94	0.49
11:f:830:LEU:HD23	11:f:831:VAL:O	2.13	0.49
12:A:71:GLY:C	12:A:72:LEU:HD22	2.38	0.49
13:B:372:MET:HE3	14:C:178:LEU:HG	1.95	0.49
15:D:39:ASP:OD1	15:D:40:LEU:N	2.45	0.49
15:D:39:ASP:HA	15:D:42:SER:OG	2.13	0.49
17:F:272:PHE:CD2	17:F:316:GLN:HB3	2.47	0.49
17:F:383:GLU:OE2	24:L:170:THR:HG21	2.13	0.49
20:H:15:PRO:HA	21:I:23:TYR:CD1	2.47	0.49
20:H:34:PRO:HG2	20:H:49:GLU:HG3	1.95	0.49
22:J:32:ALA:CB	22:J:45:VAL:HA	2.43	0.49
22:J:116:GLN:HE21	23:K:83:ALA:HB3	1.77	0.49
24:L:72:ILE:HG22	24:L:134:ILE:HA	1.95	0.49
24:L:202:GLU:OE1	24:L:202:GLU:N	2.46	0.49
27:O:178:ILE:HG12	27:O:183:LEU:CD1	2.43	0.49
28:P:20:VAL:O	28:P:189:ILE:HD12	2.12	0.49
29:Q:19:ARG:HB3	29:Q:31:ASP:CA	2.40	0.49
29:Q:102:LEU:HA	29:Q:132:HIS:CE1	2.48	0.49
30:R:100:MET:HG2	30:R:113:TYR:HD1	1.77	0.49
32:T:141:TYR:OH	26:n:24:SER:HB3	2.13	0.49
19:g:38:THR:O	19:g:52:THR:HG23	2.13	0.49
19:g:196:GLU:O	19:g:200:THR:HG23	2.13	0.49
23:k:16:SER:HA	23:k:22:PHE:CE1	2.47	0.49
23:k:65:GLU:OE1	23:k:65:GLU:N	2.46	0.49
23:k:170:ILE:HA	23:k:174:SER:CB	2.42	0.49
24:l:87:PHE:O	24:l:91:GLU:HG2	2.13	0.49
33:v:194:ALA:C	33:v:196:ALA:H	2.20	0.49
1:U:35:TRP:CG	1:U:67:VAL:HA	2.48	0.48
1:U:206:MET:HE2	1:U:212:ASP:H	1.78	0.48
1:U:543:LYS:HG2	1:U:546:ARG:NH2	2.27	0.48
1:U:657:GLY:O	1:U:661:ALA:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:801:GLN:HB3	1:U:877:LEU:HB3	1.94	0.48
2:V:186:LYS:HD2	2:V:234:ARG:HD3	1.94	0.48
2:V:354:LYS:O	2:V:357:LEU:HG	2.13	0.48
2:V:468:SER:HB2	6:Z:251:LEU:HD21	1.95	0.48
6:Z:29:VAL:HG11	6:Z:33:LYS:CB	2.42	0.48
6:Z:60:GLU:HG2	6:Z:67:VAL:O	2.13	0.48
7:a:189:PRO:O	7:a:191:SER:N	2.46	0.48
7:a:226:ARG:HB3	7:a:234:ILE:CG1	2.43	0.48
8:b:174:PRO:HG2	8:b:175:PRO:HD3	1.95	0.48
10:d:55:LEU:HD13	10:d:77:GLN:HB2	1.94	0.48
11:f:330:PHE:HA	11:f:333:LEU:CD2	2.42	0.48
11:f:511:SER:HB3	11:f:515:ALA:N	2.28	0.48
11:f:654:VAL:HG22	13:B:75:GLU:CB	2.40	0.48
15:D:251:PHE:HD2	15:D:295:GLN:HB3	1.78	0.48
17:F:367:GLN:HA	17:F:370:SER:OG	2.13	0.48
19:G:144:ASP:CB	19:G:147:GLN:HB2	2.37	0.48
21:I:95:GLN:HG3	28:P:69:PHE:CD1	2.47	0.48
22:J:36:ARG:HD3	22:J:143:ARG:HA	1.95	0.48
22:J:145:TYR:CD1	22:J:155:ALA:HB2	2.48	0.48
24:L:205:LEU:O	24:L:207:THR:N	2.35	0.48
25:M:50:GLU:O	25:M:65:ARG:NH2	2.46	0.48
30:R:19:ARG:HD2	30:R:169:TYR:O	2.13	0.48
31:S:150:ASP:OD2	28:p:177:ARG:NH2	2.45	0.48
20:h:34:PRO:HA	20:h:163:MET:O	2.13	0.48
21:i:34:CYS:CB	21:i:164:ILE:HD12	2.41	0.48
22:j:65:LEU:HB2	22:j:69:VAL:CG1	2.43	0.48
24:l:7:ASP:OD1	24:l:20:HIS:ND1	2.46	0.48
24:l:164:ARG:HD2	24:l:198:THR:C	2.38	0.48
27:o:5:GLY:HA3	27:o:14:LEU:CD2	2.37	0.48
27:o:163:ILE:HG23	27:o:170:GLY:CA	2.33	0.48
29:q:68:LYS:HA	29:q:73:TYR:O	2.12	0.48
29:q:102:LEU:HA	29:q:132:HIS:CE1	2.48	0.48
32:t:20:VAL:HG23	32:t:120:SER:HB3	1.94	0.48
1:U:21:GLU:HA	1:U:24:LEU:CD2	2.43	0.48
1:U:26:LYS:HG2	10:d:35:PHE:CZ	2.48	0.48
1:U:481:LEU:CD2	1:U:497:LEU:HD11	2.43	0.48
1:U:514:LEU:O	1:U:518:LEU:HG	2.13	0.48
1:U:609:ASP:O	1:U:615:ARG:HD2	2.12	0.48
1:U:717:ILE:CD1	1:U:731:ILE:HB	2.43	0.48
1:U:756:HIS:NE2	1:U:758:PRO:HG2	2.28	0.48
2:V:207:ALA:HA	2:V:210:CYS:SG	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:263:LEU:HB3	2:V:265:ASP:OD2	2.12	0.48
2:V:396:ILE:HD11	10:d:141:GLN:HB2	1.96	0.48
3:W:42:GLU:HA	3:W:45:GLU:CG	2.42	0.48
4:X:57:LEU:HA	4:X:62:GLN:NE2	2.28	0.48
4:X:401:LEU:HD12	4:X:402:GLU:N	2.28	0.48
6:Z:16:LEU:CD1	6:Z:135:THR:HG21	2.43	0.48
6:Z:67:VAL:HG12	8:b:95:LEU:CD2	2.43	0.48
6:Z:96:HIS:CE1	6:Z:123:ILE:HG12	2.47	0.48
6:Z:191:ILE:O	6:Z:195:VAL:HG23	2.14	0.48
6:Z:204:LYS:HE3	9:c:225:TRP:HH2	1.79	0.48
6:Z:205:LEU:HD13	7:a:357:CYS:HB2	1.96	0.48
7:a:233:LEU:O	7:a:237:LEU:HG	2.13	0.48
10:d:102:ASN:O	10:d:105:PHE:HB3	2.13	0.48
10:d:160:ALA:HB3	10:d:161:GLU:OE1	2.14	0.48
11:f:35:ASP:CG	11:f:88:SER:HB3	2.38	0.48
11:f:446:LEU:HD21	11:f:483:PHE:HD2	1.78	0.48
11:f:513:GLU:HG3	11:f:553:THR:CG2	2.35	0.48
12:A:265:ARG:NH2	12:A:312:ARG:HA	2.28	0.48
13:B:63:LEU:O	13:B:67:ARG:HG3	2.13	0.48
13:B:372:MET:HB2	14:C:178:LEU:HA	1.94	0.48
13:B:383:LEU:HD22	13:B:423:LYS:CG	2.43	0.48
14:C:55:LYS:O	14:C:59:LEU:HD23	2.13	0.48
14:C:189:TYR:CE1	14:C:314:LYS:HG3	2.48	0.48
15:D:92:PHE:CD2	15:D:124:LEU:HD11	2.42	0.48
15:D:147:ALA:HA	16:E:62:LYS:HD3	1.95	0.48
17:F:183:GLU:HB3	17:F:239:ALA:CA	2.35	0.48
17:F:226:TYR:CZ	17:F:353:GLU:HB3	2.48	0.48
19:G:30:LYS:HA	19:G:33:ASN:ND2	2.28	0.48
22:J:86:ARG:HG2	22:J:114:LEU:HD13	1.95	0.48
25:M:194:ALA:CB	25:M:239:ALA:HB2	2.42	0.48
25:M:215:TRP:CH2	25:M:219:LEU:HD22	2.39	0.48
27:O:73:LEU:HD12	27:O:74:PRO:CD	2.41	0.48
29:Q:23:SER:CB	29:Q:28:MET:HE2	2.42	0.48
31:S:2:PHE:CD1	32:T:105:PRO:HG3	2.48	0.48
31:S:27:THR:HB	31:S:40:SER:N	2.15	0.48
19:g:30:LYS:HA	19:g:33:ASN:ND2	2.28	0.48
20:h:69:THR:HG22	20:h:70:LYS:H	1.78	0.48
23:k:49:ALA:HB2	23:k:217:LEU:HD23	1.94	0.48
24:l:202:GLU:N	24:l:202:GLU:OE1	2.46	0.48
1:U:177:LEU:HD23	1:U:205:TYR:CE1	2.42	0.48
1:U:349:ASP:CG	1:U:351:MET:HG2	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:503:GLN:CB	1:U:508:THR:HG21	2.29	0.48
1:U:788:VAL:HG12	1:U:909:GLY:HA2	1.94	0.48
2:V:84:LYS:CG	2:V:123:SER:H	2.25	0.48
2:V:303:SER:HA	2:V:306:ARG:CG	2.41	0.48
3:W:20:TYR:CE2	3:W:22:ALA:HB3	2.47	0.48
3:W:45:GLU:HB2	3:W:96:GLN:HB3	1.94	0.48
3:W:124:LEU:O	3:W:128:LEU:HD23	2.13	0.48
3:W:273:TYR:HA	3:W:276:LEU:HD23	1.95	0.48
4:X:201:TYR:OH	15:D:338:ARG:HB2	2.13	0.48
4:X:255:LEU:HD13	4:X:267:VAL:HG13	1.95	0.48
5:Y:177:ARG:HH11	5:Y:180:LEU:HB3	1.77	0.48
5:Y:184:GLN:HA	5:Y:188:CYS:SG	2.54	0.48
6:Z:67:VAL:HG21	8:b:91:ARG:CG	2.44	0.48
7:a:112:ILE:HD13	7:a:151:VAL:HG21	1.94	0.48
7:a:285:PRO:HG2	7:a:287:ASN:ND2	2.28	0.48
9:c:57:MET:H	9:c:111:TRP:HA	1.77	0.48
10:d:30:LEU:C	10:d:31:LEU:HD12	2.38	0.48
11:f:333:LEU:HD13	11:f:385:PHE:HZ	1.78	0.48
11:f:825:MET:N	11:f:850:VAL:O	2.46	0.48
12:A:41:TYR:CE2	12:A:45:ILE:HB	2.48	0.48
12:A:258:ARG:NH2	17:F:255:GLN:HA	2.29	0.48
14:C:114:VAL:HB	14:C:123:LEU:HD22	1.93	0.48
16:E:129:ASN:HD22	16:E:185:ARG:HB3	1.77	0.48
17:F:272:PHE:HD2	17:F:316:GLN:HB3	1.77	0.48
19:G:91:VAL:CG1	19:G:95:ARG:HE	2.25	0.48
21:I:7:SER:OG	21:I:9:THR:HG23	2.13	0.48
21:I:12:PHE:CZ	22:J:125:ARG:HD2	2.48	0.48
22:J:68:ASN:ND2	22:J:137:ASP:HA	2.27	0.48
22:J:92:GLN:HG2	29:Q:66:LEU:CD2	2.43	0.48
25:M:98:PHE:CD1	25:M:106:ILE:HD13	2.48	0.48
29:Q:135:GLY:O	29:Q:139:THR:HG23	2.14	0.48
31:S:195:ILE:HG22	31:S:197:ILE:HD11	1.95	0.48
32:T:25:ASP:HA	32:T:187:PHE:HA	1.95	0.48
22:j:36:ARG:HD3	22:j:143:ARG:HA	1.95	0.48
23:k:117:SER:HB2	24:l:82:ARG:HH12	1.78	0.48
25:m:34:SER:OG	25:m:65:ARG:NH2	2.42	0.48
25:m:98:PHE:CD1	25:m:106:ILE:HD13	2.48	0.48
26:n:3:ILE:HD12	26:n:44:CYS:SG	2.53	0.48
28:p:123:SER:C	28:p:124:LEU:HD12	2.38	0.48
30:r:8:PHE:CE2	30:r:10:HIS:HB2	2.49	0.48
1:U:61:ALA:HA	1:U:64:ALA:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:109:THR:O	1:U:113:VAL:HG23	2.14	0.48
1:U:337:LEU:CD2	1:U:911:ILE:HB	2.42	0.48
1:U:424:ALA:HA	1:U:427:LEU:CD1	2.43	0.48
2:V:221:LEU:HD12	2:V:222:ASP:N	2.28	0.48
2:V:383:GLY:HA2	2:V:386:PHE:HB2	1.96	0.48
2:V:465:ASP:HA	2:V:468:SER:HB3	1.95	0.48
3:W:24:VAL:O	3:W:27:ARG:HB3	2.13	0.48
3:W:286:LEU:O	3:W:290:ILE:HG12	2.13	0.48
3:W:296:LEU:HD11	3:W:302:TYR:CD1	2.48	0.48
4:X:93:LEU:HD23	4:X:129:LEU:HD22	1.94	0.48
4:X:379:ASP:HA	5:Y:313:SER:HB3	1.95	0.48
4:X:407:MET:HA	4:X:410:VAL:CG2	2.43	0.48
5:Y:81:LEU:CG	5:Y:107:LYS:HB3	2.43	0.48
6:Z:147:ASP:O	7:a:181:GLY:HA3	2.12	0.48
6:Z:212:LEU:HD23	7:a:350:LYS:HG2	1.96	0.48
7:a:7:PHE:CE2	7:a:60:TYR:HB2	2.46	0.48
7:a:272:ILE:HA	7:a:275:LEU:HB2	1.96	0.48
8:b:151:GLU:CD	8:b:152:LYS:HG3	2.38	0.48
9:c:244:VAL:HB	9:c:291:LEU:HD21	1.95	0.48
10:d:184:LYS:HE2	10:d:184:LYS:HA	1.95	0.48
10:d:191:PHE:CZ	10:d:195:THR:HG21	2.49	0.48
14:C:127:LEU:HD11	15:D:112:TYR:HE1	1.59	0.48
15:D:115:ILE:HG22	15:D:139:LEU:HD12	1.96	0.48
15:D:243:GLY:HA3	15:D:288:ILE:HD11	1.95	0.48
15:D:244:PRO:HD3	15:D:288:ILE:CG1	2.43	0.48
16:E:145:LEU:HD12	16:E:148:VAL:CG1	2.44	0.48
17:F:92:ASN:HA	17:F:149:ASP:O	2.13	0.48
21:I:76:VAL:HG21	21:I:83:ALA:HB1	1.95	0.48
23:K:65:GLU:OE1	23:K:65:GLU:N	2.46	0.48
26:N:134:TYR:CZ	32:t:33:LEU:HD13	2.48	0.48
27:O:20:ALA:HB3	27:O:28:ASP:CB	2.36	0.48
31:S:28:ARG:CZ	31:S:190:GLY:HA2	2.44	0.48
19:g:195:VAL:O	19:g:199:ILE:HD12	2.12	0.48
19:g:212:PRO:O	19:g:232:GLU:HG3	2.12	0.48
20:h:39:LYS:CE	20:h:144:PRO:HG2	2.42	0.48
20:h:105:ILE:HD11	20:h:109:GLN:HG3	1.95	0.48
24:l:216:GLY:HA3	24:l:219:LEU:HB3	1.94	0.48
25:m:40:ARG:HH11	25:m:147:GLN:HA	1.79	0.48
25:m:203:GLU:HA	25:m:206:ASP:O	2.14	0.48
32:t:86:ARG:HG2	32:t:121:PHE:CZ	2.48	0.48
1:U:14:GLU:HG3	1:U:16:GLU:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:233:LEU:O	1:U:237:VAL:HG23	2.14	0.48
1:U:765:VAL:HG11	1:U:778:PHE:CD2	2.43	0.48
2:V:33:GLN:CG	2:V:85:ALA:HA	2.43	0.48
2:V:91:PRO:CB	2:V:124:ASN:HD22	2.27	0.48
2:V:98:LEU:HB2	2:V:144:ASP:OD2	2.13	0.48
2:V:476:PHE:CZ	6:Z:258:VAL:HG22	2.48	0.48
3:W:90:LEU:CD2	3:W:97:LEU:HB2	2.34	0.48
3:W:314:LEU:HD22	3:W:314:LEU:H	1.78	0.48
4:X:211:ASP:O	4:X:214:SER:HB2	2.14	0.48
6:Z:95:TYR:CB	6:Z:122:VAL:HB	2.44	0.48
7:a:133:GLU:OE1	7:a:133:GLU:N	2.46	0.48
7:a:257:GLN:O	7:a:261:LEU:HB3	2.14	0.48
10:d:88:GLN:NE2	10:d:88:GLN:HA	2.27	0.48
10:d:100:GLY:HA2	10:d:133:ILE:CD1	2.43	0.48
10:d:195:THR:HA	10:d:205:LYS:HZ1	1.78	0.48
11:f:80:ARG:HD3	11:f:80:ARG:H	1.78	0.48
11:f:173:LEU:HD13	12:A:402:LYS:NZ	2.28	0.48
11:f:240:VAL:O	11:f:257:ARG:NH2	2.41	0.48
11:f:411:ALA:CB	11:f:440:ILE:HA	2.43	0.48
11:f:418:LEU:HD21	11:f:428:GLN:HG3	1.95	0.48
11:f:574:GLU:CD	11:f:577:LEU:HD12	2.38	0.48
11:f:634:LYS:HB2	11:f:670:MET:CE	2.42	0.48
12:A:239:ARG:HD2	12:A:240:VAL:N	2.27	0.48
12:A:312:ARG:CG	12:A:315:ILE:HD13	2.44	0.48
14:C:52:LEU:HD23	15:D:68:LEU:CB	2.44	0.48
14:C:165:ILE:CD1	14:C:292:ILE:HD11	2.44	0.48
14:C:344:LEU:HA	14:C:347:ILE:HD12	1.94	0.48
15:D:274:ARG:CB	16:E:245:GLU:HB3	2.37	0.48
16:E:118:LEU:CD2	16:E:214:LEU:HB3	2.42	0.48
19:G:87:SER:O	19:G:91:VAL:HG23	2.13	0.48
19:G:199:ILE:HG21	19:G:242:LEU:HD21	1.95	0.48
20:H:76:TYR:HB2	20:H:132:VAL:CG1	2.43	0.48
21:I:97:TYR:CG	21:I:105:ILE:HD13	2.48	0.48
23:K:15:PHE:CE2	24:L:127:PRO:HD2	2.48	0.48
26:N:13:VAL:C	26:N:14:LEU:HD12	2.38	0.48
27:O:126:THR:HG23	27:O:135:MET:HE2	1.96	0.48
30:R:40:TYR:CD2	30:R:41:LEU:HG	2.48	0.48
19:g:236:ASP:O	19:g:240:VAL:HG22	2.12	0.48
21:i:155:ASN:OD1	21:i:156:TYR:N	2.47	0.48
22:j:32:ALA:CB	22:j:45:VAL:HA	2.43	0.48
22:j:187:THR:O	22:j:190:LEU:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:k:99:HIS:CG	23:k:107:MET:HB2	2.47	0.48
24:l:171:TYR:HD2	24:l:194:ALA:HB2	1.79	0.48
25:m:76:ALA:O	25:m:135:PHE:CA	2.58	0.48
29:q:45:LEU:HB2	29:q:102:LEU:HG	1.95	0.48
30:r:35:ILE:HD11	30:r:45:MET:HE3	1.96	0.48
31:s:27:THR:HA	31:s:40:SER:O	2.14	0.48
31:s:28:ARG:CZ	31:s:190:GLY:HA2	2.44	0.48
33:v:152:ASN:CB	33:v:162:GLY:HA2	2.43	0.48
1:U:535:TYR:HA	1:U:538:GLU:OE2	2.14	0.48
2:V:397:ARG:O	2:V:400:HIS:HB3	2.14	0.48
3:W:33:LYS:HG2	3:W:36:LYS:HD2	1.95	0.48
3:W:190:MET:HE1	3:W:209:ILE:HG13	1.94	0.48
3:W:235:GLN:HE22	3:W:350:ARG:HH21	1.62	0.48
3:W:303:LYS:O	3:W:306:LEU:HB3	2.13	0.48
4:X:163:LYS:CD	4:X:199:ALA:HB3	2.42	0.48
4:X:255:LEU:HD22	4:X:267:VAL:CG1	2.38	0.48
5:Y:47:ASP:HB3	5:Y:49:ASN:ND2	2.28	0.48
5:Y:146:ARG:HG2	5:Y:150:PHE:CZ	2.48	0.48
5:Y:270:VAL:CG2	5:Y:273:GLN:HB2	2.44	0.48
6:Z:56:VAL:CG2	6:Z:57:PRO:HD2	2.43	0.48
9:c:190:GLN:O	9:c:193:ILE:HG22	2.14	0.48
10:d:8:GLU:HB3	10:d:12:LYS:O	2.14	0.48
11:f:175:ASP:OD1	11:f:212:GLU:HG2	2.13	0.48
11:f:291:GLN:HE22	11:f:324:VAL:CG1	2.25	0.48
11:f:485:LEU:CD2	11:f:525:ILE:HD11	2.44	0.48
11:f:687:ARG:HD2	11:f:688:ARG:NH1	2.29	0.48
12:A:353:HIS:CD2	12:A:357:ILE:HD11	2.48	0.48
13:B:114:GLU:HB2	13:B:122:ILE:CG2	2.43	0.48
13:B:428:TYR:O	13:B:432:GLU:HB2	2.13	0.48
14:C:52:LEU:CB	15:D:68:LEU:HD13	2.43	0.48
15:D:409:LYS:O	15:D:409:LYS:HD3	2.12	0.48
17:F:141:ASP:HB2	17:F:144:LYS:HD2	1.96	0.48
17:F:343:LEU:HD22	17:F:351:LYS:HE2	1.94	0.48
21:I:137:ILE:O	21:I:137:ILE:HD12	2.14	0.48
24:L:38:LEU:CD1	24:L:187:LEU:HD11	2.44	0.48
26:N:3:ILE:HD12	26:N:44:CYS:SG	2.54	0.48
28:P:34:MET:SD	28:P:183:MET:HE2	2.54	0.48
21:i:7:SER:OG	21:i:9:THR:HG23	2.13	0.48
21:i:107:CYS:HB2	21:i:146:GLN:OE1	2.13	0.48
24:l:174:ARG:HG3	24:l:175:HIS:HD1	1.76	0.48
25:m:193:VAL:HA	25:m:196:ILE:CD1	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:o:28:ASP:HB2	28:p:131:MET:SD	2.53	0.48
28:p:34:MET:SD	28:p:183:MET:HE2	2.54	0.48
31:s:195:ILE:HG22	31:s:197:ILE:HD11	1.95	0.48
1:U:367:THR:HA	1:U:370:VAL:CG2	2.42	0.48
1:U:643:SER:O	14:C:57:ARG:NH2	2.46	0.48
2:V:310:THR:HA	2:V:332:LEU:HD11	1.95	0.48
2:V:333:ILE:O	2:V:337:LEU:HG	2.13	0.48
3:W:87:ILE:CG2	3:W:91:SER:HA	2.44	0.48
3:W:122:LEU:CA	3:W:125:ILE:HG22	2.42	0.48
3:W:244:CYS:HA	3:W:273:TYR:OH	2.14	0.48
3:W:377:ARG:HA	3:W:380:GLN:CG	2.41	0.48
3:W:377:ARG:O	3:W:381:LEU:HD13	2.14	0.48
5:Y:121:LEU:HD12	5:Y:122:THR:N	2.28	0.48
5:Y:177:ARG:NH2	14:C:337:ASN:OD1	2.47	0.48
5:Y:316:LEU:HD11	5:Y:352:GLU:HG3	1.95	0.48
6:Z:45:LYS:HG3	6:Z:46:LYS:H	1.78	0.48
6:Z:106:ILE:HA	6:Z:155:PHE:HZ	1.77	0.48
6:Z:204:LYS:HE3	9:c:225:TRP:CH2	2.49	0.48
8:b:20:ASP:OD2	8:b:25:ARG:NH2	2.44	0.48
9:c:72:VAL:HG13	9:c:112:TYR:CE1	2.49	0.48
10:d:77:GLN:HA	10:d:80:CYS:HB2	1.95	0.48
10:d:81:TYR:O	10:d:84:ASP:HB2	2.13	0.48
11:f:198:HIS:CE1	11:f:238:ASN:HB3	2.47	0.48
11:f:634:LYS:HD3	11:f:670:MET:CE	2.44	0.48
12:A:143:ASP:OD2	12:A:145:ASN:N	2.47	0.48
13:B:108:SER:HA	14:C:95:PHE:HD1	1.77	0.48
14:C:249:ASP:OD1	14:C:251:ILE:HG12	2.13	0.48
14:C:342:ILE:HD11	14:C:347:ILE:CD1	2.37	0.48
17:F:140:VAL:CG2	17:F:145:LEU:HD11	2.43	0.48
19:G:38:THR:O	19:G:52:THR:HG23	2.13	0.48
19:G:138:MET:CB	19:G:154:CYS:HB3	2.29	0.48
20:H:38:ILE:HG12	20:H:160:ALA:HB1	1.96	0.48
22:J:65:LEU:HB2	22:J:69:VAL:CG1	2.43	0.48
22:J:115:LYS:HG3	22:J:127:PHE:HD2	1.77	0.48
24:L:171:TYR:HD2	24:L:194:ALA:HB2	1.79	0.48
26:N:176:LEU:HD12	26:N:189:LEU:HD12	1.94	0.48
27:O:6:VAL:CG2	27:O:124:TYR:HB3	2.39	0.48
28:P:66:ARG:O	28:P:69:PHE:HB3	2.13	0.48
31:S:170:ARG:O	31:S:174:LEU:HG	2.14	0.48
19:g:58:ASP:HB3	19:g:61:LEU:CB	2.44	0.48
19:g:230:LEU:HB3	19:g:235:ILE:CG1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:h:74:LEU:HD21	20:h:134:LEU:HD22	1.96	0.48
20:h:194:THR:O	20:h:197:GLU:HB3	2.13	0.48
22:j:228:TYR:HA	22:j:231:GLU:HG2	1.96	0.48
25:m:110:HIS:HE1	26:n:69:GLU:HG2	1.73	0.48
26:n:104:ASP:O	26:n:108:GLY:N	2.47	0.48
33:v:181:SER:OG	33:v:186:CYS:HB2	2.13	0.48
33:v:194:ALA:C	33:v:196:ALA:N	2.70	0.48
33:v:212:ARG:HB3	33:v:212:ARG:CZ	2.43	0.48
1:U:269:ARG:HB3	1:U:325:MET:CE	2.44	0.48
1:U:337:LEU:HD21	1:U:911:ILE:HB	1.96	0.48
1:U:349:ASP:HB3	1:U:352:ILE:CG1	2.41	0.48
1:U:592:GLY:HA2	1:U:625:ILE:HA	1.95	0.48
2:V:189:ASP:OD2	2:V:203:LEU:HD12	2.13	0.48
2:V:334:VAL:HG22	2:V:360:TYR:CE1	2.49	0.48
2:V:372:LEU:HD21	2:V:402:VAL:HG11	1.95	0.48
2:V:471:GLU:HG3	5:Y:366:TYR:OH	2.13	0.48
3:W:26:GLN:O	3:W:29:PRO:HD2	2.14	0.48
4:X:108:GLU:OE1	4:X:109:LEU:HD12	2.14	0.48
4:X:380:GLN:N	5:Y:313:SER:O	2.47	0.48
5:Y:298:GLU:HA	5:Y:301:ILE:CG2	2.39	0.48
8:b:84:ILE:HB	8:b:115:SER:CB	2.41	0.48
10:d:27:LYS:O	10:d:31:LEU:HD13	2.14	0.48
10:d:224:SER:OG	10:d:225:PHE:N	2.46	0.48
11:f:64:GLY:CA	11:f:67:ASP:HB3	2.33	0.48
11:f:202:HIS:NE2	11:f:241:PRO:HB2	2.29	0.48
11:f:234:THR:O	11:f:237:VAL:HG12	2.13	0.48
11:f:292:LYS:HG3	11:f:296:PHE:CB	2.43	0.48
11:f:813:LYS:HD2	11:f:878:GLU:O	2.14	0.48
13:B:373:THR:HB	13:B:413:LYS:HD3	1.95	0.48
14:C:62:GLU:OE2	14:C:66:LEU:HB2	2.14	0.48
14:C:191:PRO:HD2	14:C:317:PHE:CD2	2.48	0.48
14:C:250:GLU:O	14:C:254:ILE:HG12	2.14	0.48
15:D:179:GLU:HA	15:D:183:LEU:HB2	1.94	0.48
16:E:147:GLU:HG3	16:E:151:LEU:CD1	2.43	0.48
16:E:180:LYS:HG2	16:E:301:ILE:HD12	1.96	0.48
18:e:62:LYS:HG2	18:e:66:LYS:HG3	1.94	0.48
22:J:187:THR:O	22:J:190:LEU:HB3	2.13	0.48
23:K:16:SER:CB	23:K:19:GLY:H	2.27	0.48
25:M:40:ARG:HE	25:M:161:TRP:CD1	2.32	0.48
25:M:69:VAL:O	32:T:76:LEU:HD22	2.13	0.48
25:M:195:LYS:HB3	25:M:195:LYS:HZ3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:O:117:GLY:O	27:O:119:THR:HG23	2.13	0.48
21:i:245:ALA:O	21:i:248:GLU:HG2	2.14	0.48
22:j:116:GLN:HE21	23:k:83:ALA:HB3	1.78	0.48
25:m:40:ARG:HE	25:m:161:TRP:CD1	2.32	0.48
25:m:83:ASP:HB2	25:m:133:CYS:SG	2.54	0.48
29:q:160:LEU:O	29:q:164:LEU:HD13	2.14	0.48
30:r:50:ALA:HB2	31:s:129:SER:HB2	1.94	0.48
1:U:217:CYS:HB2	1:U:248:ILE:CD1	2.43	0.48
1:U:506:ALA:HB1	1:U:543:LYS:NZ	2.29	0.48
1:U:570:LEU:HB3	1:U:582:GLY:HA3	1.95	0.48
1:U:903:PHE:HB3	1:U:913:ILE:HD11	1.96	0.48
2:V:94:VAL:HG22	2:V:138:PRO:CD	2.42	0.48
2:V:240:LEU:CD1	2:V:241:ARG:HG3	2.43	0.48
2:V:300:LEU:HG	2:V:397:ARG:HE	1.78	0.48
2:V:481:SER:HA	2:V:484:LEU:CG	2.44	0.48
2:V:490:SER:HA	6:Z:275:LEU:CG	2.44	0.48
3:W:4:GLY:O	3:W:8:ARG:HG3	2.14	0.48
3:W:128:LEU:HA	3:W:131:VAL:HG23	1.96	0.48
5:Y:35:ALA:HB2	5:Y:38:ARG:HH21	1.78	0.48
5:Y:189:VAL:HG21	5:Y:193:ASP:H	1.79	0.48
5:Y:311:TYR:HB3	5:Y:314:LEU:HD12	1.95	0.48
7:a:34:TRP:CE3	7:a:68:GLU:HG3	2.48	0.48
8:b:174:PRO:HD2	8:b:175:PRO:HD2	1.87	0.48
9:c:120:CYS:HA	9:c:144:VAL:HG11	1.96	0.48
10:d:67:ASP:CG	10:d:70:SER:HB2	2.39	0.48
10:d:106:LEU:HG	10:d:111:ARG:CB	2.44	0.48
10:d:241:GLU:O	10:d:244:LYS:HB2	2.13	0.48
11:f:24:THR:OG1	11:f:31:LYS:HG3	2.13	0.48
11:f:319:GLU:O	11:f:324:VAL:HG22	2.14	0.48
11:f:497:VAL:HA	11:f:500:LEU:HD23	1.96	0.48
11:f:527:VAL:HG13	11:f:565:ASN:HB2	1.95	0.48
11:f:665:GLU:HG2	11:f:669:GLU:CG	2.42	0.48
11:f:716:ASP:O	11:f:718:ASP:N	2.46	0.48
12:A:96:ALA:O	13:B:132:TYR:HB3	2.13	0.48
12:A:276:GLU:HB3	13:B:310:LEU:HD21	1.95	0.48
14:C:175:PHE:HB3	14:C:180:ILE:O	2.14	0.48
14:C:246:ILE:O	14:C:291:VAL:HA	2.14	0.48
15:D:147:ALA:HB1	16:E:70:ILE:HD13	1.96	0.48
15:D:253:LEU:HG	15:D:257:ASN:ND2	2.29	0.48
16:E:264:MET:HE1	16:E:294:ARG:HB2	1.95	0.48
17:F:134:LEU:HD13	17:F:136:VAL:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:I:65:ILE:HD13	21:I:75:SER:OG	2.13	0.48
21:I:68:LEU:HG	21:I:72:MET:O	2.14	0.48
25:M:191:LYS:HZ3	25:M:234:GLU:CD	2.21	0.48
25:M:240:LYS:HD3	25:M:240:LYS:C	2.31	0.48
26:N:45:ARG:HB2	26:N:52:THR:HB	1.96	0.48
26:N:104:ASP:O	26:N:108:GLY:N	2.47	0.48
27:O:193:ASN:OD1	31:s:213:ASP:HB3	2.14	0.48
31:S:183:ALA:CA	31:S:189:THR:HG21	2.44	0.48
20:h:76:TYR:HB2	20:h:132:VAL:CG1	2.43	0.48
21:i:14:PRO:HA	22:j:21:TYR:CE1	2.49	0.48
22:j:145:TYR:CD1	22:j:155:ALA:HB2	2.48	0.48
23:k:95:GLU:HA	23:k:98:ASN:OD1	2.14	0.48
24:l:105:VAL:O	24:l:109:VAL:HG23	2.14	0.48
33:v:181:SER:HA	33:v:184:HIS:CE1	2.49	0.48
2:V:263:LEU:HB3	2:V:265:ASP:CG	2.39	0.48
2:V:362:LEU:HB3	2:V:378:VAL:HG11	1.96	0.48
5:Y:186:LEU:CD1	5:Y:213:LEU:HG	2.43	0.48
7:a:74:LEU:O	7:a:78:GLU:HG3	2.14	0.48
7:a:131:THR:O	7:a:135:ILE:HD12	2.13	0.48
7:a:199:THR:HA	7:a:202:LEU:HD12	1.95	0.48
8:b:21:PHE:HZ	8:b:143:PHE:HA	1.78	0.48
9:c:77:GLN:HG3	9:c:77:GLN:O	2.14	0.48
9:c:184:LEU:CD2	9:c:184:LEU:N	2.73	0.48
9:c:276:GLY:O	15:D:122:GLU:HA	2.14	0.48
10:d:94:TYR:HA	10:d:97:GLN:HE22	1.79	0.48
10:d:111:ARG:HB3	10:d:114:GLU:HB2	1.95	0.48
10:d:158:ILE:HG23	10:d:163:TYR:CZ	2.49	0.48
11:f:253:LEU:HD22	11:f:257:ARG:CD	2.42	0.48
11:f:764:LEU:HD22	11:f:774:GLY:HA3	1.94	0.48
12:A:59:ILE:HG12	13:B:76:GLU:CG	2.44	0.48
12:A:352:THR:O	12:A:355:PHE:HB2	2.14	0.48
13:B:340:ALA:O	13:B:343:ARG:HG2	2.14	0.48
14:C:336:MET:HA	15:D:194:ILE:O	2.13	0.48
14:C:338:LEU:HD23	14:C:338:LEU:H	1.79	0.48
15:D:159:LYS:HB3	15:D:221:HIS:CD2	2.49	0.48
16:E:199:VAL:O	16:E:200:SER:OG	2.31	0.48
37:E:401:ADP:PA	17:F:344:ARG:HH12	2.37	0.48
19:G:113:MET:O	19:G:116:LYS:HB2	2.14	0.48
22:J:176:TYR:OH	23:K:57:PRO:HD2	2.14	0.48
27:O:179:SER:HG	27:O:182:LYS:N	2.09	0.48
31:S:13:LEU:HD13	31:S:137:ALA:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:g:113:MET:O	19:g:116:LYS:HB2	2.14	0.48
22:j:86:ARG:HG2	22:j:114:LEU:HD13	1.95	0.48
24:l:72:ILE:HG22	24:l:134:ILE:HA	1.95	0.48
26:n:45:ARG:HB2	26:n:52:THR:HB	1.96	0.48
31:s:175:VAL:HA	31:s:178:VAL:HG22	1.96	0.48
1:U:98:GLU:CA	1:U:101:ILE:HG12	2.43	0.47
1:U:389:ASN:HD21	1:U:392:TRP:HE3	1.61	0.47
1:U:423:MET:HE1	1:U:445:ALA:HB3	1.96	0.47
1:U:540:GLN:HG3	9:c:68:ARG:CZ	2.44	0.47
1:U:878:LEU:HB3	1:U:882:ALA:HB2	1.94	0.47
2:V:126:ALA:O	2:V:128:ARG:N	2.47	0.47
2:V:279:GLN:OE1	2:V:279:GLN:N	2.47	0.47
2:V:310:THR:O	2:V:314:ARG:HG2	2.13	0.47
3:W:101:VAL:HA	3:W:104:MET:CG	2.43	0.47
3:W:237:GLU:OE1	3:W:237:GLU:N	2.41	0.47
3:W:268:LYS:HB2	3:W:333:LEU:HD11	1.96	0.47
3:W:406:VAL:HG23	4:X:342:PHE:HB3	1.95	0.47
4:X:158:LYS:HA	4:X:166:LEU:HD21	1.96	0.47
4:X:406:ASN:CB	9:c:252:ALA:HB1	2.44	0.47
5:Y:124:PHE:O	5:Y:140:ILE:HG21	2.13	0.47
6:Z:16:LEU:HD23	6:Z:16:LEU:O	2.14	0.47
6:Z:61:ASP:OD2	8:b:91:ARG:HD2	2.14	0.47
8:b:114:GLY:HA3	8:b:143:PHE:O	2.14	0.47
9:c:58:LEU:HD23	9:c:71:ASP:HB3	1.95	0.47
11:f:197:ALA:O	11:f:201:GLU:HG2	2.14	0.47
11:f:228:LYS:HB2	13:B:59:ARG:HH22	1.78	0.47
11:f:334:ALA:O	11:f:338:ASP:OD2	2.32	0.47
11:f:404:ASP:OD1	11:f:405:HIS:N	2.46	0.47
11:f:625:LYS:HB2	11:f:628:ASP:HB3	1.95	0.47
13:B:188:GLY:HA3	37:B:501:ADP:N6	2.23	0.47
13:B:222:VAL:HG12	13:B:224:LEU:HD12	1.96	0.47
13:B:283:PHE:CZ	13:B:330:ALA:HB2	2.49	0.47
13:B:316:LEU:HB3	13:B:346:ARG:NH1	2.28	0.47
14:C:361:GLY:O	14:C:365:GLU:HG2	2.13	0.47
17:F:220:PRO:HB3	17:F:349:ASP:OD2	2.14	0.47
21:I:107:CYS:HB2	21:I:146:GLN:OE1	2.13	0.47
21:I:155:ASN:OD1	21:I:156:TYR:N	2.46	0.47
24:L:87:PHE:O	24:L:91:GLU:HG2	2.13	0.47
24:L:192:LEU:HD13	24:L:236:LEU:HD21	1.96	0.47
25:M:35:THR:HA	25:M:165:ILE:O	2.14	0.47
27:O:40:ASN:HD22	27:O:73:LEU:HD21	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:P:191:GLU:OE2	28:P:194:LYS:HG2	2.14	0.47
29:Q:160:LEU:O	29:Q:164:LEU:HD13	2.14	0.47
30:R:8:PHE:CE2	30:R:10:HIS:HB2	2.49	0.47
30:R:19:ARG:CZ	30:R:171:GLY:HA3	2.44	0.47
31:S:63:THR:HG22	31:S:67:ILE:HD11	1.95	0.47
32:T:86:ARG:HG2	32:T:121:PHE:CZ	2.48	0.47
32:T:96:MET:CE	32:T:106:LEU:HD12	2.34	0.47
21:i:76:VAL:HG21	21:i:83:ALA:HB2	1.95	0.47
24:l:230:SER:HA	24:l:233:LEU:HD12	1.96	0.47
32:t:7:THR:HA	32:t:55:GLY:O	2.14	0.47
1:U:97:VAL:HG22	1:U:101:ILE:HG23	1.95	0.47
1:U:586:VAL:O	1:U:590:TYR:HB2	2.14	0.47
1:U:621:SER:O	1:U:625:ILE:HG12	2.14	0.47
1:U:650:TYR:HD1	1:U:683:VAL:HA	1.79	0.47
3:W:83:LEU:HG	3:W:89:LEU:H	1.78	0.47
3:W:247:TYR:O	3:W:251:TYR:HB2	2.13	0.47
3:W:254:PRO:HB2	3:W:263:TRP:HB2	1.97	0.47
4:X:47:GLU:HA	4:X:50:ILE:HD13	1.96	0.47
4:X:298:SER:HB3	4:X:301:ASP:HB3	1.95	0.47
4:X:351:SER:HA	4:X:354:ILE:HG22	1.95	0.47
5:Y:124:PHE:HB3	5:Y:144:LEU:HD11	1.96	0.47
5:Y:326:GLY:O	5:Y:330:ILE:HD12	2.15	0.47
5:Y:329:PHE:CB	18:e:62:LYS:HE3	2.44	0.47
9:c:26:ASP:HB2	9:c:173:GLU:HG2	1.95	0.47
9:c:48:GLY:HA3	9:c:53:VAL:HG11	1.96	0.47
9:c:192:LEU:HB2	9:c:196:LEU:HB2	1.95	0.47
11:f:106:LEU:CD2	11:f:136:GLU:HB3	2.44	0.47
11:f:419:LEU:HD13	11:f:450:ILE:HG22	1.96	0.47
11:f:565:ASN:HA	11:f:776:LEU:CG	2.44	0.47
11:f:610:GLN:HB2	11:f:614:HIS:HD2	1.79	0.47
11:f:834:ASP:HB3	13:B:53:THR:OG1	2.13	0.47
12:A:309:PHE:CZ	17:F:250:LYS:HG2	2.49	0.47
13:B:404:LEU:O	13:B:408:ARG:HB2	2.14	0.47
17:F:204:LEU:HB2	17:F:205:PRO:HD3	1.94	0.47
19:G:212:PRO:HG3	19:G:239:LEU:CD2	2.44	0.47
22:J:71:MET:CE	22:J:133:ILE:HG23	2.45	0.47
23:K:52:LYS:HZ2	23:K:216:GLU:HB3	1.78	0.47
24:L:135:ALA:HA	24:L:143:HIS:O	2.14	0.47
25:M:215:TRP:CB	25:M:227:VAL:HG12	2.41	0.47
31:S:27:THR:HA	31:S:40:SER:O	2.14	0.47
31:S:175:VAL:HA	31:S:178:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:T:46:ASN:HB3	32:T:71:VAL:HG11	1.95	0.47
21:i:68:LEU:HG	21:i:72:MET:O	2.14	0.47
24:l:4:ASN:OD1	24:l:5:GLN:N	2.48	0.47
25:m:137:LEU:O	25:m:148:LEU:HD12	2.15	0.47
26:n:13:VAL:C	26:n:14:LEU:HD12	2.38	0.47
26:n:112:TYR:CE1	26:n:122:ARG:HB2	2.50	0.47
26:n:129:GLY:O	26:n:132:SER:OG	2.20	0.47
27:o:19:ARG:HB2	27:o:171:SER:OG	2.14	0.47
27:o:126:THR:HG23	27:o:135:MET:HE2	1.96	0.47
29:q:6:GLY:O	29:q:115:LEU:HD22	2.14	0.47
29:q:45:LEU:HB2	29:q:102:LEU:CD1	2.44	0.47
29:q:108:ASP:CG	29:q:111:GLU:H	2.22	0.47
29:q:136:ALA:HA	29:q:139:THR:OG1	2.15	0.47
30:r:19:ARG:HD2	30:r:169:TYR:O	2.13	0.47
1:U:269:ARG:HB3	1:U:325:MET:SD	2.54	0.47
2:V:162:GLU:OE1	2:V:175:MET:HG2	2.15	0.47
4:X:90:ARG:HE	4:X:125:LEU:CD1	2.27	0.47
4:X:149:LEU:O	4:X:153:LEU:HB2	2.14	0.47
5:Y:77:ASN:HB3	5:Y:110:TYR:OH	2.15	0.47
5:Y:165:LYS:HA	5:Y:169:GLU:CD	2.39	0.47
7:a:27:GLU:O	7:a:31:LYS:HD3	2.14	0.47
7:a:112:ILE:HD12	7:a:113:LEU:N	2.29	0.47
8:b:4:GLU:C	8:b:105:HIS:HB3	2.39	0.47
9:c:120:CYS:HB2	9:c:144:VAL:HG11	1.96	0.47
9:c:146:ASP:OD2	9:c:149:GLN:N	2.22	0.47
9:c:189:ILE:HD12	9:c:192:LEU:CD1	2.41	0.47
10:d:126:ASP:HB3	10:d:133:ILE:CG2	2.41	0.47
10:d:147:SER:OG	10:d:150:LYS:HB3	2.14	0.47
11:f:223:GLU:HA	13:B:60:LEU:CD2	2.33	0.47
11:f:371:ASN:OD1	11:f:374:SER:HB2	2.14	0.47
11:f:485:LEU:HD21	11:f:497:VAL:HG11	1.95	0.47
11:f:630:ASP:OD1	11:f:666:ILE:HA	2.15	0.47
11:f:759:LEU:O	11:f:759:LEU:HD23	2.14	0.47
11:f:796:LEU:HA	11:f:799:VAL:CG1	2.43	0.47
12:A:169:LYS:HD2	12:A:231:ASN:O	2.14	0.47
12:A:239:ARG:NH1	12:A:241:ILE:HD11	2.29	0.47
13:B:234:LEU:HD11	37:B:501:ADP:C4	2.49	0.47
15:D:119:ILE:O	15:D:121:ARG:NH1	2.48	0.47
17:F:286:ASP:OD1	17:F:287:GLU:N	2.45	0.47
17:F:293:THR:HG23	17:F:337:ILE:HG23	1.95	0.47
20:H:14:SER:N	20:H:18:LYS:O	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:H:39:LYS:CE	20:H:144:PRO:HG2	2.42	0.47
21:I:53:HIS:CD2	21:I:55:LEU:HB2	2.50	0.47
23:K:54:ILE:HA	23:K:59:MET:CE	2.43	0.47
24:L:105:VAL:O	24:L:109:VAL:HG23	2.14	0.47
24:L:230:SER:HA	24:L:233:LEU:HD12	1.96	0.47
25:M:140:TYR:HA	25:M:145:GLY:O	2.13	0.47
29:Q:6:GLY:O	29:Q:115:LEU:HD22	2.14	0.47
29:Q:41:LYS:O	29:Q:106:GLY:HA2	2.15	0.47
32:T:7:THR:HA	32:T:55:GLY:O	2.14	0.47
32:T:9:THR:H	32:T:41:ARG:NH2	2.12	0.47
32:T:14:VAL:O	32:T:20:VAL:HG13	2.14	0.47
19:g:212:PRO:HG3	19:g:239:LEU:CD2	2.44	0.47
21:i:76:VAL:HG21	21:i:83:ALA:HB1	1.95	0.47
24:l:184:LEU:O	24:l:188:VAL:HG23	2.15	0.47
28:p:191:GLU:HG3	28:p:193:ASP:H	1.79	0.47
29:q:135:GLY:O	29:q:139:THR:HG23	2.14	0.47
30:r:19:ARG:CZ	30:r:171:GLY:HA3	2.44	0.47
31:s:35:ILE:O	32:t:151:ARG:NH2	2.37	0.47
1:U:405:THR:HG23	1:U:441:GLY:HA3	1.97	0.47
1:U:417:LYS:HG3	1:U:421:GLN:NE2	2.29	0.47
1:U:632:GLN:HB3	15:D:53:PHE:CZ	2.49	0.47
3:W:199:TYR:HD1	3:W:233:LEU:HD12	1.80	0.47
3:W:357:ARG:HB3	3:W:361:HIS:HE1	1.73	0.47
3:W:366:MET:HA	3:W:370:TYR:CD2	2.49	0.47
4:X:115:GLU:O	4:X:118:LYS:HB2	2.13	0.47
4:X:201:TYR:CZ	15:D:338:ARG:HB2	2.49	0.47
4:X:374:PHE:CE2	4:X:376:GLY:HA3	2.49	0.47
4:X:409:LYS:HD2	9:c:256:ASN:ND2	2.30	0.47
5:Y:164:ALA:O	5:Y:169:GLU:HG3	2.15	0.47
5:Y:197:ALA:HB1	5:Y:226:VAL:CG2	2.44	0.47
6:Z:42:SER:O	6:Z:48:LEU:HG	2.13	0.47
7:a:135:ILE:CG1	7:a:158:LEU:HD13	2.36	0.47
7:a:172:TYR:O	7:a:176:ALA:CB	2.61	0.47
7:a:289:ARG:CG	7:a:333:MET:HB2	2.44	0.47
8:b:16:MET:CE	8:b:25:ARG:HB3	2.44	0.47
9:c:208:ARG:C	9:c:209:LYS:HD3	2.39	0.47
11:f:30:GLY:HA2	11:f:34:ARG:HE	1.79	0.47
11:f:320:ILE:HA	11:f:324:VAL:CG2	2.44	0.47
11:f:330:PHE:CZ	11:f:334:ALA:CB	2.97	0.47
11:f:449:GLY:CA	11:f:488:ALA:HB2	2.45	0.47
11:f:608:LYS:CG	11:f:611:GLN:HE21	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:845:ARG:NH2	12:A:169:LYS:HB2	2.27	0.47
12:A:54:GLN:OE1	12:A:57:LYS:HD3	2.15	0.47
12:A:241:ILE:HB	12:A:244:GLU:HG3	1.96	0.47
14:C:257:SER:HB2	14:C:300:ILE:O	2.15	0.47
15:D:391:ARG:NH1	15:D:395:LEU:HD12	2.28	0.47
17:F:233:LYS:NZ	17:F:233:LYS:HB3	2.29	0.47
17:F:247:THR:OG1	17:F:278:LYS:HE3	2.14	0.47
22:J:12:PRO:HA	23:K:26:TYR:CZ	2.48	0.47
22:J:228:TYR:HA	22:J:231:GLU:HG2	1.96	0.47
24:L:84:LEU:HD11	24:L:128:TYR:HD2	1.77	0.47
24:L:173:GLU:O	24:L:176:MET:HG2	2.15	0.47
27:O:175:LEU:HD12	27:O:189:TYR:CG	2.50	0.47
29:Q:108:ASP:CG	29:Q:111:GLU:H	2.22	0.47
31:S:26:ASP:OD2	31:S:190:GLY:N	2.36	0.47
21:i:92:LEU:HD23	21:i:92:LEU:O	2.14	0.47
22:j:160:ALA:HB1	22:j:168:VAL:HB	1.96	0.47
24:l:38:LEU:CD1	24:l:187:LEU:HD11	2.44	0.47
25:m:80:LEU:CD2	25:m:83:ASP:H	2.28	0.47
28:p:122:CYS:CB	28:p:132:VAL:HG12	2.43	0.47
31:s:162:GLU:OE1	31:s:162:GLU:N	2.38	0.47
31:s:183:ALA:CA	31:s:189:THR:HG21	2.44	0.47
32:t:25:ASP:HA	32:t:187:PHE:HA	1.95	0.47
32:t:45:VAL:HB	32:t:49:THR:O	2.14	0.47
1:U:169:GLU:CG	1:U:171:ASN:HB2	2.44	0.47
1:U:347:ASN:HB3	1:U:741:GLY:O	2.15	0.47
2:V:183:GLU:O	2:V:186:LYS:HB3	2.14	0.47
2:V:381:GLN:HG3	2:V:382:PHE:CE1	2.50	0.47
2:V:416:ARG:HA	2:V:459:GLN:HA	1.95	0.47
3:W:89:LEU:HD11	3:W:93:ARG:HB2	1.96	0.47
3:W:283:GLN:O	3:W:287:VAL:HG13	2.14	0.47
4:X:74:ARG:HH12	4:X:112:GLU:HB3	1.79	0.47
4:X:333:GLN:O	4:X:336:ILE:HG13	2.14	0.47
5:Y:144:LEU:HB3	5:Y:160:ASN:ND2	2.28	0.47
5:Y:272:PHE:HB3	18:e:63:HIS:CE1	2.49	0.47
6:Z:59:ASP:O	6:Z:68:TRP:HA	2.15	0.47
6:Z:105:ASP:HA	6:Z:108:ILE:HD13	1.95	0.47
7:a:130:VAL:HA	7:a:133:GLU:OE1	2.14	0.47
7:a:194:GLN:CA	7:a:225:LEU:HB3	2.31	0.47
8:b:35:ILE:HD12	8:b:36:VAL:N	2.29	0.47
11:f:283:THR:O	11:f:287:ASP:CB	2.62	0.47
11:f:369:ARG:O	11:f:372:LEU:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:479:LEU:HD12	11:f:514:VAL:CG2	2.40	0.47
11:f:742:ALA:HB1	11:f:746:ARG:CD	2.44	0.47
11:f:754:LYS:CB	11:f:754:LYS:NZ	2.77	0.47
11:f:757:ASN:CG	33:v:213:ILE:CA	2.87	0.47
11:f:861:THR:HG23	11:f:876:HIS:CE1	2.50	0.47
12:A:56:LEU:HB2	13:B:72:LEU:HD21	1.95	0.47
13:B:292:THR:HG23	13:B:293:LYS:H	1.79	0.47
14:C:201:ARG:HA	14:C:211:PHE:CD1	2.48	0.47
15:D:124:LEU:HB3	15:D:125:LYS:H	1.42	0.47
15:D:204:MET:O	15:D:310:ALA:HA	2.15	0.47
16:E:43:SER:HB2	17:F:76:ASN:HB3	1.97	0.47
16:E:381:GLU:OE2	17:F:343:LEU:HB2	2.14	0.47
17:F:196:GLN:NE2	33:v:164:THR:HB	2.26	0.47
17:F:380:ASN:HD22	17:F:383:GLU:HG3	1.79	0.47
19:G:190:THR:H	19:G:193:GLN:HB3	1.79	0.47
21:I:92:LEU:HD23	21:I:92:LEU:O	2.15	0.47
24:L:13:TRP:NE1	25:M:130:PRO:HD2	2.29	0.47
26:N:14:LEU:HD11	26:N:101:ALA:HB3	1.97	0.47
26:N:104:ASP:OD2	26:N:106:GLN:N	2.48	0.47
29:Q:29:LYS:HE3	29:Q:32:HIS:CA	2.45	0.47
30:R:35:ILE:HD11	30:R:45:MET:HE3	1.96	0.47
21:i:151:ASP:OD2	21:i:155:ASN:HB3	2.15	0.47
22:j:173:GLU:HA	22:j:176:TYR:CZ	2.50	0.47
24:l:155:ASP:O	25:m:59:GLU:N	2.48	0.47
25:m:80:LEU:HD23	25:m:81:LEU:N	2.29	0.47
27:o:40:ASN:HD22	27:o:73:LEU:HD21	1.79	0.47
32:t:46:ASN:HB3	32:t:71:VAL:HG11	1.96	0.47
1:U:7:GLY:O	10:d:79:LYS:CB	2.61	0.47
1:U:139:GLN:OE1	1:U:142:LEU:HD12	2.13	0.47
1:U:148:LYS:HA	1:U:151:ILE:HG22	1.97	0.47
1:U:401:LYS:O	1:U:405:THR:HG22	2.14	0.47
1:U:570:LEU:CB	1:U:582:GLY:HA3	2.44	0.47
1:U:676:THR:OG1	1:U:688:LEU:HD11	2.15	0.47
2:V:224:LEU:HD23	2:V:224:LEU:H	1.80	0.47
2:V:404:LYS:HA	2:V:407:VAL:CG1	2.43	0.47
3:W:226:TYR:O	3:W:229:LEU:N	2.48	0.47
4:X:47:GLU:HG2	4:X:76:PHE:CE2	2.50	0.47
4:X:268:GLN:HA	4:X:271:VAL:CG2	2.44	0.47
5:Y:236:LEU:HD23	5:Y:240:VAL:CG2	2.45	0.47
6:Z:69:PHE:CE1	8:b:96:ALA:HB2	2.50	0.47
6:Z:121:LEU:HG	6:Z:138:TYR:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:38:THR:O	7:a:41:VAL:HB	2.14	0.47
8:b:107:MET:HB2	8:b:136:VAL:HG22	1.95	0.47
10:d:162:SER:OG	10:d:164:THR:OG1	2.11	0.47
11:f:326:LEU:O	11:f:326:LEU:HD13	2.14	0.47
11:f:475:ASN:O	11:f:478:ARG:N	2.47	0.47
11:f:672:LEU:HB3	11:f:709:THR:CG2	2.44	0.47
12:A:103:ASN:OD1	12:A:112:ILE:HD12	2.15	0.47
12:A:159:PRO:HA	12:A:162:THR:HB	1.97	0.47
13:B:53:THR:CG2	13:B:54:PRO:HD3	2.44	0.47
13:B:264:PRO:HD3	13:B:308:THR:OG1	2.13	0.47
13:B:407:LEU:CD1	14:C:174:LEU:HB3	2.43	0.47
14:C:152:GLY:C	14:C:324:ALA:HB1	2.40	0.47
14:C:214:VAL:HG21	14:C:248:MET:CE	2.44	0.47
14:C:285:ALA:O	14:C:286:THR:HB	2.14	0.47
15:D:409:LYS:HE2	16:E:387:LYS:HZ3	1.78	0.47
16:E:181:THR:O	16:E:185:ARG:HG3	2.15	0.47
17:F:200:GLU:HA	17:F:204:LEU:HD12	1.97	0.47
19:G:230:LEU:HB3	19:G:235:ILE:CG1	2.44	0.47
20:H:69:THR:HG22	20:H:70:LYS:H	1.78	0.47
22:J:130:SER:OG	22:J:149:PRO:HD3	2.15	0.47
22:J:160:ALA:HB1	22:J:168:VAL:HB	1.96	0.47
23:K:91:LYS:HZ1	23:K:116:VAL:HA	1.76	0.47
23:K:95:GLU:HA	23:K:98:ASN:OD1	2.14	0.47
24:L:4:ASN:OD1	24:L:5:GLN:N	2.48	0.47
25:M:83:ASP:HB2	25:M:133:CYS:SG	2.54	0.47
26:N:7:GLN:CB	26:N:12:VAL:HG12	2.45	0.47
26:N:112:TYR:CE1	26:N:122:ARG:HB2	2.49	0.47
19:g:87:SER:O	19:g:91:VAL:HG23	2.13	0.47
24:l:186:GLU:HA	24:l:189:LYS:HG2	1.96	0.47
30:r:80:SER:OG	30:r:120:ARG:NH2	2.47	0.47
1:U:19:LEU:HG	10:d:27:LYS:NZ	2.29	0.47
1:U:376:MET:C	1:U:740:GLY:H	2.22	0.47
1:U:415:HIS:CD2	1:U:418:GLU:H	2.32	0.47
1:U:418:GLU:HA	1:U:421:GLN:HG2	1.97	0.47
1:U:478:SER:CB	1:U:511:ALA:HA	2.45	0.47
1:U:791:LEU:HB2	1:U:911:ILE:HD11	1.97	0.47
1:U:901:GLN:O	1:U:915:LYS:HB3	2.14	0.47
2:V:148:ARG:CG	2:V:149:PRO:HD3	2.44	0.47
2:V:162:GLU:OE2	2:V:167:LEU:HD21	2.14	0.47
2:V:228:ARG:HH12	2:V:254:LEU:HA	1.80	0.47
2:V:407:VAL:O	2:V:411:SER:CB	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:40:LEU:HD23	3:W:43:VAL:CG2	2.44	0.47
3:W:42:GLU:O	3:W:45:GLU:HG3	2.15	0.47
3:W:90:LEU:HD13	3:W:97:LEU:HG	1.97	0.47
3:W:231:ILE:HD13	3:W:247:TYR:HE1	1.79	0.47
3:W:419:LYS:NZ	6:Z:244:GLU:HG3	2.30	0.47
3:W:446:ILE:CG2	6:Z:226:ILE:HD11	2.44	0.47
4:X:255:LEU:HD22	4:X:267:VAL:HG22	1.96	0.47
5:Y:268:TYR:HB3	5:Y:323:PHE:HA	1.97	0.47
5:Y:295:TYR:O	5:Y:299:MET:HG2	2.15	0.47
5:Y:297:ARG:HA	5:Y:300:ARG:HG3	1.97	0.47
5:Y:343:LEU:HD23	5:Y:343:LEU:O	2.15	0.47
6:Z:14:LEU:HD21	9:c:40:LYS:NZ	2.30	0.47
6:Z:39:LEU:HD22	6:Z:122:VAL:CG2	2.45	0.47
6:Z:78:MET:HE2	6:Z:82:PHE:CE2	2.49	0.47
6:Z:79:TYR:OH	6:Z:90:ARG:HG3	2.14	0.47
7:a:28:LEU:HD23	7:a:37:LEU:CA	2.45	0.47
7:a:347:LYS:HA	7:a:350:LYS:NZ	2.22	0.47
8:b:121:GLU:HA	8:b:124:LEU:CG	2.43	0.47
8:b:150:THR:CB	8:b:170:LEU:HD21	2.42	0.47
9:c:45:GLY:HA2	9:c:53:VAL:CG2	2.41	0.47
9:c:49:VAL:HG13	9:c:50:PRO:HD3	1.97	0.47
9:c:54:MET:HG3	9:c:75:MET:HE1	1.95	0.47
9:c:91:PHE:O	9:c:95:MET:HB2	2.15	0.47
9:c:139:ARG:HA	9:c:161:ARG:NH1	2.29	0.47
9:c:233:ASP:OD2	9:c:235:SER:N	2.46	0.47
10:d:48:LEU:HD22	10:d:81:TYR:OH	2.14	0.47
10:d:76:ALA:O	10:d:80:CYS:N	2.46	0.47
11:f:92:VAL:HG22	11:f:129:LEU:CD2	2.44	0.47
11:f:187:LEU:CD2	13:B:59:ARG:HD3	2.45	0.47
11:f:337:LEU:HD23	11:f:341:GLU:O	2.15	0.47
11:f:605:ASN:OD1	11:f:608:LYS:HE3	2.14	0.47
11:f:690:VAL:HB	11:f:713:PHE:CE1	2.49	0.47
11:f:809:ILE:HD11	11:f:855:GLN:NE2	2.24	0.47
11:f:810:ILE:HG22	11:f:856:ALA:N	2.19	0.47
12:A:265:ARG:CZ	12:A:312:ARG:HA	2.45	0.47
12:A:393:GLY:HA3	13:B:216:ILE:HD13	1.97	0.47
13:B:112:LEU:CD2	13:B:150:VAL:HG11	2.45	0.47
13:B:257:GLN:HG3	13:B:262:ASP:HB2	1.97	0.47
14:C:47:ALA:O	14:C:51:GLU:HG2	2.14	0.47
14:C:178:LEU:O	14:C:178:LEU:HD23	2.15	0.47
14:C:222:LYS:HG3	15:D:290:LEU:CD1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:C:277:LEU:HG	14:C:305:LEU:HD12	1.96	0.47
14:C:351:MET:HE1	14:C:362:VAL:CG1	2.45	0.47
14:C:368:MET:O	14:C:371:LEU:HB3	2.15	0.47
15:D:170:MET:CG	15:D:174:LYS:HG3	2.45	0.47
15:D:191:TYR:O	15:D:195:GLY:CA	2.61	0.47
16:E:145:LEU:CG	16:E:149:ILE:HD12	2.44	0.47
16:E:149:ILE:HD11	16:E:276:ILE:HD11	1.97	0.47
16:E:336:ASP:H	16:E:338:PHE:HE2	1.62	0.47
17:F:175:MET:O	17:F:250:LYS:HG3	2.15	0.47
17:F:364:ARG:HD3	33:v:180:TYR:HD1	1.65	0.47
17:F:413:THR:HG1	17:F:414:GLU:H	1.61	0.47
17:F:430:LYS:HA	17:F:430:LYS:HE2	1.97	0.47
19:G:22:LEU:HD12	19:G:22:LEU:O	2.14	0.47
19:G:29:PHE:HE1	19:G:156:PRO:HG2	1.79	0.47
20:H:100:VAL:HG13	28:P:93:ASN:ND2	2.29	0.47
21:I:12:PHE:HB2	22:J:21:TYR:CE2	2.49	0.47
22:J:91:CYS:CA	22:J:102:VAL:HG21	2.44	0.47
22:J:173:GLU:HA	22:J:176:TYR:CZ	2.50	0.47
24:L:67:ASP:OD1	24:L:68:ASN:N	2.43	0.47
24:L:184:LEU:O	24:L:188:VAL:HG23	2.15	0.47
25:M:52:LEU:HA	25:M:209:PHE:HA	1.96	0.47
25:M:80:LEU:CD2	25:M:83:ASP:H	2.28	0.47
25:M:137:LEU:O	25:M:148:LEU:HD12	2.14	0.47
25:M:201:HIS:ND1	25:M:201:HIS:C	2.73	0.47
27:O:203:ARG:HD3	28:P:162:HIS:ND1	2.30	0.47
29:Q:45:LEU:HB2	29:Q:102:LEU:HG	1.95	0.47
31:S:91:MET:HG2	31:S:95:ILE:CD1	2.44	0.47
32:T:45:VAL:HG11	32:T:49:THR:CG2	2.45	0.47
32:T:45:VAL:HB	32:T:49:THR:O	2.14	0.47
20:h:34:PRO:HG2	20:h:49:GLU:HG3	1.95	0.47
21:i:137:ILE:O	21:i:137:ILE:HD12	2.14	0.47
21:i:198:ASN:CA	21:i:206:LEU:HD12	2.44	0.47
22:j:91:CYS:CA	22:j:102:VAL:HG21	2.44	0.47
23:k:36:THR:CA	23:k:171:GLY:HA3	2.29	0.47
23:k:181:LEU:HA	23:k:184:VAL:HG22	1.96	0.47
24:l:18:ARG:HB3	24:l:23:GLU:OE2	2.15	0.47
24:l:66:VAL:HA	24:l:89:ARG:HE	1.79	0.47
24:l:67:ASP:OD1	24:l:68:ASN:N	2.43	0.47
24:l:118:ILE:H	24:l:118:ILE:HD12	1.80	0.47
25:m:110:HIS:CE1	26:n:70:LEU:HA	2.50	0.47
28:p:21:ALA:HB2	28:p:189:ILE:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:p:183:MET:CE	28:p:204:MET:HE3	2.45	0.47
29:q:117:TYR:HB3	29:q:125:ALA:HB3	1.97	0.47
31:s:63:THR:HG22	31:s:67:ILE:HD11	1.95	0.47
31:s:91:MET:HG2	31:s:95:ILE:CD1	2.44	0.47
32:t:92:LEU:HD21	32:t:110:MET:CE	2.42	0.47
33:v:211:GLN:H	33:v:211:GLN:HE21	1.57	0.47
1:U:58:GLN:HB3	1:U:84:ALA:C	2.40	0.47
1:U:789:ILE:HB	1:U:911:ILE:CA	2.45	0.47
2:V:247:GLN:O	2:V:251:LEU:HB2	2.14	0.47
2:V:328:VAL:O	2:V:332:LEU:HB2	2.14	0.47
2:V:361:PHE:HD2	2:V:362:LEU:HD22	1.79	0.47
3:W:111:TYR:C	3:W:115:ILE:HG22	2.39	0.47
3:W:145:LEU:HA	3:W:148:THR:CG2	2.45	0.47
3:W:287:VAL:HA	3:W:290:ILE:CD1	2.45	0.47
4:X:414:LEU:HD11	6:Z:273:HIS:CD2	2.49	0.47
6:Z:270:VAL:HA	6:Z:273:HIS:ND1	2.30	0.47
7:a:370:GLN:HG3	10:d:247:ILE:HG21	1.96	0.47
8:b:142:ASN:CB	8:b:173:VAL:HB	2.45	0.47
10:d:56:GLU:O	10:d:60:GLN:HG2	2.15	0.47
11:f:421:ASP:HB2	11:f:451:VAL:HG13	1.97	0.47
11:f:429:ILE:HG23	11:f:444:ALA:CB	2.44	0.47
12:A:280:ILE:O	12:A:295:VAL:HG12	2.14	0.47
13:B:112:LEU:HD21	13:B:150:VAL:HG11	1.97	0.47
13:B:229:GLY:HA2	37:B:501:ADP:C5'	2.45	0.47
13:B:271:PHE:CD2	13:B:315:GLN:HG3	2.47	0.47
14:C:234:LEU:O	14:C:237:MET:HB2	2.15	0.47
15:D:116:LEU:HB2	15:D:119:ILE:HD12	1.97	0.47
15:D:248:ARG:HG2	15:D:295:GLN:HE22	1.78	0.47
16:E:349:GLU:O	16:E:352:MET:HB2	2.15	0.47
18:e:47:ASN:HB3	18:e:52:PHE:CE2	2.50	0.47
18:e:62:LYS:O	18:e:65:TYR:C	2.57	0.47
19:G:5:SER:N	19:G:23:TYR:HH	2.13	0.47
20:H:74:LEU:HD21	20:H:134:LEU:HD22	1.96	0.47
21:I:198:ASN:CA	21:I:206:LEU:HD12	2.44	0.47
23:K:236:GLU:CA	23:K:239:LYS:HE3	2.35	0.47
24:L:186:GLU:HA	24:L:189:LYS:HG2	1.96	0.47
28:P:183:MET:CE	28:P:204:MET:HE3	2.45	0.47
29:Q:5:ILE:HG22	29:Q:16:ALA:HB3	1.97	0.47
30:R:80:SER:OG	30:R:120:ARG:NH2	2.47	0.47
32:T:31:GLY:O	32:T:182:ARG:NH2	2.48	0.47
19:g:22:LEU:HD12	19:g:22:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:h:38:ILE:HG12	20:h:160:ALA:HB1	1.96	0.47
20:h:187:ALA:HA	20:h:190:THR:HG22	1.97	0.47
21:i:119:GLN:HE22	22:j:79:ASP:CA	2.27	0.47
21:i:148:TYR:HA	21:i:157:GLY:O	2.15	0.47
21:i:171:ALA:HB2	21:i:200:THR:HG21	1.97	0.47
22:j:96:LEU:HD12	29:q:62:LYS:HG3	1.96	0.47
23:k:16:SER:CB	23:k:19:GLY:H	2.27	0.47
25:m:70:ASP:H	25:m:73:VAL:HB	1.79	0.47
25:m:189:ILE:O	25:m:192:GLU:HB2	2.15	0.47
27:o:7:VAL:HG13	27:o:11:GLY:O	2.15	0.47
28:p:163:LEU:O	28:p:167:ILE:HG22	2.15	0.47
28:p:191:GLU:OE2	28:p:194:LYS:HG2	2.14	0.47
29:q:38:MET:HA	29:q:61:GLN:NE2	2.30	0.47
31:s:191:ASP:OD2	31:s:212:LYS:HG3	2.15	0.47
32:t:9:THR:H	32:t:41:ARG:NH2	2.12	0.47
32:t:45:VAL:HG11	32:t:49:THR:CG2	2.45	0.47
1:U:139:GLN:CD	1:U:142:LEU:HD12	2.40	0.47
1:U:644:TYR:HH	14:C:53:ASN:HA	1.79	0.47
1:U:758:PRO:HB2	1:U:781:LEU:HB3	1.96	0.47
2:V:194:LYS:O	2:V:196:SER:N	2.48	0.47
2:V:281:ASN:CA	5:Y:385:ARG:HD3	2.43	0.47
2:V:440:LYS:HG2	10:d:177:GLU:OE2	2.14	0.47
3:W:120:ILE:O	3:W:124:LEU:HG	2.14	0.47
3:W:128:LEU:O	3:W:131:VAL:HB	2.14	0.47
3:W:318:SER:O	3:W:322:GLU:HG3	2.15	0.47
3:W:366:MET:HA	3:W:370:TYR:HD2	1.79	0.47
4:X:62:GLN:HB2	4:X:65:GLU:OE1	2.15	0.47
6:Z:39:LEU:HG	6:Z:92:VAL:CG1	2.45	0.47
7:a:100:THR:CA	7:a:103:LYS:HE2	2.42	0.47
7:a:187:ASP:OD1	7:a:188:LEU:HG	2.14	0.47
9:c:158:ASP:OD1	9:c:159:ALA:N	2.46	0.47
10:d:179:ALA:O	10:d:183:GLU:HG2	2.14	0.47
10:d:192:THR:O	10:d:197:ILE:HD12	2.14	0.47
11:f:187:LEU:HG	13:B:59:ARG:HD3	1.96	0.47
11:f:329:ASN:C	11:f:333:LEU:HD22	2.39	0.47
11:f:335:ARG:HG3	11:f:853:VAL:HG11	1.96	0.47
11:f:814:SER:HB3	11:f:882:LEU:HD12	1.95	0.47
11:f:869:THR:HG23	11:f:885:GLU:O	2.14	0.47
12:A:347:ASP:O	12:A:348:LEU:HD12	2.15	0.47
12:A:352:THR:HG22	12:A:374:ALA:HB3	1.97	0.47
12:A:369:ARG:CZ	12:A:410:LEU:HD11	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B:373:THR:CG2	14:C:177:ALA:HB1	2.45	0.47
14:C:52:LEU:HD23	15:D:68:LEU:HB2	1.97	0.47
14:C:185:GLY:HA3	14:C:311:ILE:CG2	2.33	0.47
14:C:227:GLY:HA2	14:C:230:MET:CE	2.43	0.47
15:D:363:TYR:HB3	15:D:403:TYR:CZ	2.49	0.47
16:E:148:VAL:HG21	16:E:170:CYS:SG	2.55	0.47
20:H:105:ILE:HD11	20:H:109:GLN:HG3	1.95	0.47
21:I:148:TYR:HA	21:I:157:GLY:O	2.15	0.47
22:J:38:ARG:NH1	22:J:182:GLU:O	2.48	0.47
24:L:18:ARG:HB3	24:L:23:GLU:OE2	2.15	0.47
24:L:45:VAL:HG22	24:L:214:ILE:HG23	1.97	0.47
24:L:118:ILE:HD12	24:L:118:ILE:H	1.80	0.47
25:M:76:ALA:O	25:M:135:PHE:CA	2.58	0.47
25:M:80:LEU:HD23	25:M:81:LEU:N	2.29	0.47
27:O:8:TYR:CE2	27:O:10:ASP:HB2	2.50	0.47
29:Q:136:ALA:HA	29:Q:139:THR:OG1	2.15	0.47
19:g:24:GLN:O	19:g:27:TYR:HB2	2.15	0.47
19:g:29:PHE:HE1	19:g:156:PRO:HG2	1.79	0.47
19:g:127:GLN:HA	20:h:128:ARG:NH2	2.30	0.47
21:i:206:LEU:O	21:i:206:LEU:HD23	2.14	0.47
24:l:50:LYS:HE3	24:l:211:SER:OG	2.15	0.47
24:l:75:ALA:O	24:l:130:VAL:HA	2.15	0.47
24:l:171:TYR:HA	24:l:174:ARG:NH1	2.30	0.47
27:o:114:TYR:HB2	27:o:118:SER:OG	2.15	0.47
1:U:10:SER:OG	10:d:76:ALA:HB2	2.14	0.47
1:U:413:LYS:HD2	1:U:780:SER:HB2	1.97	0.47
1:U:705:LYS:HA	1:U:708:GLN:HB2	1.97	0.47
2:V:452:ASN:O	2:V:456:GLY:HA2	2.15	0.47
3:W:68:VAL:CG1	3:W:72:LYS:HE3	2.44	0.47
4:X:47:GLU:HA	4:X:50:ILE:CD1	2.45	0.47
4:X:297:ARG:HH11	4:X:337:ARG:HH21	1.62	0.47
4:X:409:LYS:HB2	4:X:409:LYS:HZ2	1.80	0.47
5:Y:18:ARG:HG2	5:Y:22:LEU:HD13	1.96	0.47
5:Y:157:ILE:O	5:Y:161:THR:HG23	2.15	0.47
5:Y:179:ARG:CD	5:Y:182:VAL:HG23	2.45	0.47
7:a:32:LYS:HB2	8:b:19:GLY:O	2.15	0.47
7:a:277:LEU:O	7:a:280:MET:HG2	2.15	0.47
8:b:25:ARG:O	8:b:29:GLN:HG2	2.14	0.47
10:d:168:ASP:HA	10:d:171:LEU:HG	1.97	0.47
11:f:99:LEU:HD23	11:f:99:LEU:H	1.79	0.47
11:f:174:ASP:HB2	12:A:403:ILE:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:607:LEU:HA	11:f:610:GLN:HG2	1.97	0.47
11:f:666:ILE:H	11:f:666:ILE:HD12	1.78	0.47
11:f:695:ALA:O	11:f:697:ILE:HD12	2.14	0.47
11:f:816:TYR:CB	11:f:821:LEU:HD13	2.39	0.47
13:B:357:ASP:O	13:B:361:LYS:HD2	2.14	0.47
14:C:371:LEU:HD12	15:D:190:LEU:HD13	1.97	0.47
15:D:205:TYR:CZ	15:D:332:GLU:HB3	2.50	0.47
15:D:233:SER:OG	16:E:259:GLU:OE2	2.22	0.47
16:E:116:ASP:OD1	16:E:119:VAL:HB	2.15	0.47
16:E:129:ASN:OD1	16:E:130:VAL:N	2.47	0.47
16:E:189:SER:HA	16:E:192:ASP:OD1	2.14	0.47
21:I:151:ASP:OD2	21:I:155:ASN:HB3	2.15	0.47
25:M:201:HIS:NE2	25:M:206:ASP:HB2	2.30	0.47
25:M:240:LYS:O	25:M:242:SER:N	2.48	0.47
26:N:138:TYR:HB2	26:n:138:TYR:N	2.30	0.47
32:T:92:LEU:HD21	32:T:110:MET:CE	2.42	0.47
32:T:157:GLN:HG2	32:T:159:VAL:O	2.15	0.47
19:g:190:THR:H	19:g:193:GLN:HB3	1.79	0.47
20:h:83:TYR:O	20:h:86:LEU:HG	2.14	0.47
22:j:91:CYS:HA	22:j:102:VAL:HG21	1.97	0.47
22:j:114:LEU:HA	22:j:117:ARG:HH11	1.79	0.47
23:k:170:ILE:HA	23:k:174:SER:HB2	1.97	0.47
23:k:238:ILE:O	23:k:241:ILE:HG22	2.15	0.47
24:l:73:SER:OG	24:l:74:ILE:N	2.48	0.47
26:n:104:ASP:OD2	26:n:106:GLN:N	2.48	0.47
30:r:38:ASN:ND2	30:r:41:LEU:HD12	2.28	0.47
31:s:170:ARG:O	31:s:174:LEU:HG	2.14	0.47
2:V:128:ARG:HD3	2:V:162:GLU:HG2	1.98	0.46
2:V:235:LEU:CD1	2:V:247:GLN:HA	2.45	0.46
2:V:280:ALA:HB3	2:V:285:TRP:N	2.29	0.46
2:V:300:LEU:HG	2:V:397:ARG:NE	2.29	0.46
2:V:442:ILE:HD11	2:V:451:ILE:HD13	1.97	0.46
3:W:216:GLU:CB	3:W:223:LYS:HG2	2.46	0.46
4:X:157:LEU:HB3	4:X:166:LEU:HD11	1.96	0.46
5:Y:190:ALA:O	5:Y:290:PRO:HG3	2.14	0.46
6:Z:40:LEU:HB2	6:Z:52:ASN:O	2.15	0.46
7:a:232:TRP:CE3	7:a:253:THR:HA	2.50	0.46
7:a:265:GLU:O	7:a:269:LEU:HG	2.15	0.46
9:c:189:ILE:HD12	9:c:192:LEU:HD21	1.97	0.46
11:f:255:VAL:O	11:f:258:LYS:HB3	2.15	0.46
11:f:515:ALA:O	11:f:518:THR:HB	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:608:LYS:HA	11:f:611:GLN:CG	2.41	0.46
11:f:618:GLU:O	11:f:629:LYS:HE2	2.15	0.46
12:A:423:PHE:HD2	12:A:426:THR:H	1.62	0.46
13:B:338:ASP:OD2	13:B:340:ALA:HB3	2.15	0.46
14:C:337:ASN:O	14:C:378:VAL:HG23	2.15	0.46
17:F:140:VAL:HG21	17:F:160:ILE:HG21	1.97	0.46
21:I:34:CYS:CB	21:I:164:ILE:HD12	2.41	0.46
21:I:245:ALA:O	21:I:248:GLU:HG2	2.14	0.46
22:J:26:VAL:HA	22:J:75:GLY:CA	2.45	0.46
23:K:48:LEU:HD23	23:K:49:ALA:N	2.30	0.46
23:K:181:LEU:HA	23:K:184:VAL:HG22	1.96	0.46
23:K:199:LEU:HD12	23:K:200:ILE:N	2.30	0.46
23:K:229:PHE:HE2	23:K:234:LEU:HD12	1.79	0.46
23:K:238:ILE:CA	23:K:241:ILE:HG22	2.43	0.46
24:L:157:ARG:HB3	25:M:59:GLU:OE2	2.15	0.46
28:P:122:CYS:CB	28:P:132:VAL:HG12	2.43	0.46
29:Q:45:LEU:HB2	29:Q:102:LEU:CD1	2.44	0.46
30:R:125:THR:HB	30:R:139:MET:CE	2.45	0.46
19:g:5:SER:N	19:g:23:TYR:HH	2.13	0.46
19:g:22:LEU:HD11	19:g:25:VAL:HB	1.97	0.46
19:g:50:ILE:HD11	19:g:141:ILE:CG2	2.45	0.46
23:k:48:LEU:HD23	23:k:49:ALA:N	2.31	0.46
30:r:81:LYS:HE2	30:r:85:ASN:HD21	1.80	0.46
30:r:125:THR:HB	30:r:139:MET:CE	2.45	0.46
1:U:451:ALA:HA	1:U:484:ALA:HA	1.97	0.46
1:U:512:ALA:O	1:U:516:LEU:HB2	2.16	0.46
1:U:673:GLU:HB3	1:U:674:PRO:HD3	1.96	0.46
2:V:26:PRO:HB2	2:V:27:PRO:HD3	1.97	0.46
2:V:131:LEU:HA	2:V:134:PHE:HB2	1.96	0.46
3:W:12:ARG:CD	3:W:27:ARG:HD3	2.40	0.46
3:W:107:GLN:O	3:W:110:THR:N	2.49	0.46
3:W:269:SER:HA	3:W:336:PRO:HB3	1.97	0.46
3:W:333:LEU:HD12	3:W:334:GLU:N	2.29	0.46
6:Z:5:ALA:O	6:Z:46:LYS:HG3	2.16	0.46
7:a:101:ARG:HB2	7:a:114:CYS:HB3	1.96	0.46
8:b:35:ILE:HD12	8:b:36:VAL:HG13	1.97	0.46
8:b:116:PRO:HG3	8:b:145:GLU:HG3	1.96	0.46
9:c:57:MET:N	9:c:111:TRP:HA	2.31	0.46
10:d:190:LEU:HD23	10:d:191:PHE:N	2.31	0.46
11:f:215:ASP:O	11:f:218:GLU:HG3	2.15	0.46
11:f:567:LEU:CD1	11:f:598:CYS:HA	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:692:LEU:HD22	12:A:77:LEU:O	2.15	0.46
13:B:383:LEU:HD22	13:B:423:LYS:CD	2.45	0.46
15:D:286:GLN:O	15:D:289:LEU:HB2	2.15	0.46
17:F:438:TYR:HD2	24:L:31:GLN:HB2	1.80	0.46
18:e:52:PHE:HB3	18:e:55:GLN:HG3	1.98	0.46
19:G:58:ASP:HB3	19:G:61:LEU:CB	2.44	0.46
21:I:33:THR:HG1	21:I:165:GLY:HA3	1.79	0.46
21:I:206:LEU:O	21:I:206:LEU:HD23	2.14	0.46
24:L:50:LYS:HE3	24:L:211:SER:OG	2.15	0.46
25:M:240:LYS:C	25:M:242:SER:N	2.72	0.46
27:O:19:ARG:HB2	27:O:171:SER:OG	2.15	0.46
28:P:21:ALA:HB2	28:P:189:ILE:HD13	1.96	0.46
28:P:191:GLU:HG3	28:P:193:ASP:H	1.80	0.46
31:S:162:GLU:OE1	31:S:162:GLU:N	2.38	0.46
31:S:191:ASP:OD2	31:S:212:LYS:HG3	2.15	0.46
32:T:147:GLN:OE1	32:T:151:ARG:HG3	2.15	0.46
21:i:12:PHE:CE2	22:j:22:ALA:HB2	2.50	0.46
21:i:45:LEU:O	21:i:213:ILE:HA	2.16	0.46
27:o:8:TYR:CE2	27:o:10:ASP:HB2	2.50	0.46
31:s:46:LEU:HB2	31:s:50:THR:O	2.15	0.46
1:U:524:LYS:O	1:U:524:LYS:HD3	2.14	0.46
1:U:560:MET:HG2	1:U:590:TYR:CD1	2.50	0.46
2:V:163:VAL:HG22	2:V:175:MET:SD	2.55	0.46
2:V:264:TYR:O	2:V:266:GLN:N	2.49	0.46
3:W:31:CYS:O	3:W:34:LEU:HB2	2.16	0.46
3:W:36:LYS:O	3:W:87:ILE:HD11	2.14	0.46
3:W:139:GLU:O	3:W:176:SER:HB3	2.15	0.46
4:X:187:ARG:HE	4:X:217:ILE:CG2	2.28	0.46
7:a:179:PHE:HA	7:a:182:CYS:SG	2.56	0.46
7:a:227:ASN:HA	7:a:231:GLN:NE2	2.29	0.46
7:a:276:CYS:SG	7:a:300:ALA:HB2	2.54	0.46
7:a:277:LEU:HA	7:a:280:MET:HG2	1.96	0.46
8:b:84:ILE:HD12	8:b:115:SER:HB2	1.97	0.46
8:b:84:ILE:HD13	8:b:115:SER:O	2.16	0.46
10:d:243:ALA:O	10:d:247:ILE:HG13	2.16	0.46
11:f:82:ILE:O	11:f:86:THR:HB	2.15	0.46
11:f:191:ILE:HD12	11:f:191:ILE:H	1.79	0.46
11:f:401:LYS:HD2	11:f:402:ASN:CG	2.41	0.46
11:f:565:ASN:HD22	11:f:776:LEU:HD11	1.80	0.46
12:A:41:TYR:CZ	13:B:62:LEU:HB2	2.50	0.46
13:B:231:GLY:O	13:B:234:LEU:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:D:242:GLU:O	15:D:246:MET:HG3	2.16	0.46
16:E:87:LEU:HD23	16:E:87:LEU:O	2.14	0.46
16:E:119:VAL:HA	16:E:122:MET:HE2	1.96	0.46
17:F:423:GLY:O	17:F:427:VAL:HG23	2.15	0.46
18:e:68:GLU:CD	18:e:68:GLU:N	2.73	0.46
20:H:19:LEU:CD1	20:H:22:ILE:HD12	2.45	0.46
20:H:83:TYR:O	20:H:86:LEU:HG	2.14	0.46
23:K:170:ILE:HA	23:K:174:SER:HB2	1.97	0.46
23:K:217:LEU:HB2	23:K:229:PHE:CE1	2.50	0.46
24:L:75:ALA:O	24:L:130:VAL:HA	2.15	0.46
24:L:116:THR:O	24:L:120:THR:HG23	2.15	0.46
29:Q:38:MET:HA	29:Q:61:GLN:NE2	2.30	0.46
30:R:81:LYS:HE2	30:R:85:ASN:HD21	1.80	0.46
19:g:80:MET:HE2	19:g:87:SER:CA	2.37	0.46
21:i:38:LEU:HD23	21:i:43:VAL:CG2	2.45	0.46
22:j:130:SER:OG	22:j:149:PRO:HD3	2.15	0.46
23:k:199:LEU:HD12	23:k:200:ILE:N	2.30	0.46
24:l:135:ALA:HA	24:l:143:HIS:O	2.14	0.46
24:l:173:GLU:O	24:l:176:MET:HG2	2.15	0.46
26:n:7:GLN:CB	26:n:12:VAL:HG12	2.45	0.46
33:v:156:MET:CE	33:v:183:LYS:O	2.43	0.46
1:U:62:LEU:CD1	1:U:84:ALA:HB1	2.45	0.46
1:U:162:VAL:O	1:U:166:THR:HG23	2.16	0.46
1:U:685:GLN:HG2	1:U:729:GLY:H	1.81	0.46
1:U:719:ASP:OD1	1:U:720:LYS:N	2.49	0.46
2:V:80:LYS:C	2:V:86:VAL:HB	2.41	0.46
2:V:224:LEU:HD22	2:V:257:ASN:ND2	2.31	0.46
2:V:435:GLU:HA	2:V:438:VAL:HG23	1.97	0.46
3:W:172:GLU:HB2	3:W:182:ARG:CZ	2.45	0.46
6:Z:195:VAL:O	6:Z:199:LYS:HD3	2.15	0.46
6:Z:205:LEU:HD21	7:a:356:TRP:CZ3	2.47	0.46
7:a:161:LYS:HA	7:a:164:GLN:OE1	2.15	0.46
7:a:267:GLN:O	7:a:271:LYS:HG3	2.16	0.46
7:a:371:ALA:CA	7:a:374:ILE:HD13	2.34	0.46
9:c:44:HIS:NE2	9:c:53:VAL:HB	2.31	0.46
9:c:192:LEU:CB	9:c:196:LEU:HD13	2.45	0.46
10:d:22:GLU:O	10:d:25:ARG:HB3	2.16	0.46
10:d:44:THR:HA	10:d:47:GLN:NE2	2.28	0.46
11:f:538:ILE:HA	11:f:541:THR:CB	2.45	0.46
12:A:280:ILE:HA	12:A:295:VAL:HG11	1.97	0.46
13:B:274:ALA:O	13:B:280:SER:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:C:169:VAL:HG11	14:C:207:THR:HG21	1.96	0.46
15:D:281:ALA:CB	16:E:208:ILE:HD12	2.46	0.46
15:D:399:PHE:O	15:D:402:ALA:HB3	2.15	0.46
17:F:347:ARG:C	17:F:348:LEU:HD12	2.40	0.46
18:e:47:ASN:HB3	18:e:52:PHE:CD2	2.49	0.46
20:H:111:VAL:HG21	20:H:147:PHE:CD2	2.42	0.46
21:I:171:ALA:HB2	21:I:200:THR:CG2	2.46	0.46
24:L:66:VAL:HA	24:L:89:ARG:HE	1.79	0.46
24:L:156:CYS:SG	24:L:159:MET:HG2	2.56	0.46
27:O:41:ILE:HG23	27:O:101:GLY:O	2.16	0.46
27:O:42:TYR:OH	27:O:183:LEU:HD21	2.15	0.46
30:R:64:ARG:O	30:R:68:LEU:HG	2.16	0.46
31:S:46:LEU:HB2	31:S:50:THR:O	2.15	0.46
24:l:45:VAL:HG22	24:l:214:ILE:HG23	1.97	0.46
24:l:192:LEU:HD13	24:l:236:LEU:HD21	1.97	0.46
27:o:18:THR:HB	27:o:30:ASN:HA	1.97	0.46
29:q:5:ILE:HG22	29:q:16:ALA:HB3	1.97	0.46
29:q:164:LEU:HA	29:q:167:LEU:HG	1.98	0.46
31:s:13:LEU:HD13	31:s:137:ALA:HB2	1.95	0.46
32:t:14:VAL:O	32:t:20:VAL:HG13	2.14	0.46
32:t:31:GLY:O	32:t:182:ARG:NH2	2.48	0.46
1:U:436:ALA:O	1:U:473:VAL:HG22	2.15	0.46
1:U:488:THR:OG1	1:U:490:ARG:HG2	2.16	0.46
1:U:680:VAL:O	1:U:684:ARG:HG3	2.16	0.46
1:U:712:LEU:O	1:U:715:LYS:HB3	2.15	0.46
2:V:396:ILE:CD1	10:d:141:GLN:HB2	2.45	0.46
2:V:479:ARG:O	2:V:482:PHE:HB3	2.15	0.46
3:W:384:LEU:HD12	3:W:385:SER:O	2.16	0.46
4:X:157:LEU:HB3	4:X:166:LEU:HG	1.97	0.46
5:Y:179:ARG:HD2	5:Y:182:VAL:HG23	1.97	0.46
6:Z:54:PHE:HB2	6:Z:78:MET:HE2	1.98	0.46
6:Z:232:ASP:HB2	7:a:338:PRO:HG3	1.98	0.46
8:b:154:THR:N	8:b:170:LEU:HD22	2.30	0.46
8:b:176:GLY:O	8:b:178:SER:N	2.48	0.46
9:c:54:MET:SD	9:c:113:HIS:HB3	2.56	0.46
11:f:35:ASP:OD1	11:f:89:MET:HG3	2.16	0.46
11:f:320:ILE:HA	11:f:324:VAL:HG22	1.96	0.46
11:f:527:VAL:HG21	11:f:561:GLY:CA	2.42	0.46
11:f:608:LYS:CA	11:f:611:GLN:HG2	2.43	0.46
11:f:631:LYS:O	11:f:634:LYS:HB3	2.15	0.46
11:f:655:LEU:HD22	11:f:659:LEU:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:A:307:ASP:HB2	12:A:336:ARG:HE	1.81	0.46
13:B:397:ALA:O	13:B:401:GLU:HB2	2.16	0.46
14:C:164:VAL:HG21	14:C:186:VAL:HG22	1.97	0.46
15:D:85:ILE:HG22	16:E:80:VAL:HG12	1.96	0.46
15:D:170:MET:HB3	15:D:174:LYS:CD	2.45	0.46
15:D:297:ASP:OD1	15:D:326:ARG:NE	2.49	0.46
15:D:345:PHE:CD2	15:D:364:VAL:HG22	2.51	0.46
15:D:382:SER:HB2	15:D:398:ASP:HB3	1.97	0.46
17:F:169:ASP:OD2	17:F:171:ARG:HB2	2.16	0.46
17:F:252:ALA:HB3	17:F:255:GLN:CG	2.46	0.46
19:G:24:GLN:O	19:G:27:TYR:HB2	2.15	0.46
19:G:50:ILE:HD11	19:G:141:ILE:CG2	2.45	0.46
21:I:34:CYS:C	21:I:164:ILE:HD12	2.41	0.46
22:J:71:MET:HE2	22:J:71:MET:HA	1.97	0.46
22:J:114:LEU:HA	22:J:117:ARG:HH11	1.79	0.46
23:K:20:ARG:HG3	23:K:21:LEU:H	1.81	0.46
23:K:182:GLN:NE2	24:L:55:GLU:OE1	2.49	0.46
25:M:49:VAL:HG23	25:M:66:LEU:HD21	1.98	0.46
25:M:211:LEU:O	25:M:229:LYS:HE3	2.14	0.46
27:O:209:THR:OG1	28:P:165:GLU:OE1	2.31	0.46
28:P:100:PHE:O	28:P:102:PRO:HD3	2.16	0.46
29:Q:2:GLU:OE1	29:Q:2:GLU:N	2.49	0.46
21:i:53:HIS:CD2	21:i:55:LEU:HB2	2.50	0.46
23:k:88:LEU:HD21	23:k:137:PHE:CE2	2.50	0.46
23:k:217:LEU:HB2	23:k:229:PHE:CE1	2.50	0.46
23:k:219:THR:HB	23:k:221:GLN:NE2	2.25	0.46
24:l:26:MET:HE1	24:l:148:CYS:CB	2.35	0.46
25:m:202:ASP:OD1	25:m:203:GLU:N	2.48	0.46
27:o:42:TYR:OH	27:o:183:LEU:HD21	2.15	0.46
30:r:44:THR:HG1	30:r:100:MET:H	1.55	0.46
32:t:96:MET:O	32:t:99:ARG:HB3	2.16	0.46
1:U:171:ASN:ND2	1:U:176:MET:HE1	2.30	0.46
1:U:570:LEU:HD13	1:U:582:GLY:HA2	1.98	0.46
2:V:29:PRO:O	2:V:33:GLN:HG3	2.15	0.46
2:V:337:LEU:HA	2:V:341:GLU:O	2.15	0.46
3:W:34:LEU:HB3	3:W:47:LEU:CD1	2.36	0.46
3:W:131:VAL:HA	3:W:144:ARG:NE	2.31	0.46
3:W:313:GLU:H	3:W:365:ILE:CD1	2.27	0.46
4:X:407:MET:O	4:X:411:VAL:HG23	2.16	0.46
6:Z:20:VAL:HG13	9:c:212:LEU:CD2	2.44	0.46
6:Z:45:LYS:HG3	6:Z:46:LYS:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:170:VAL:CG2	9:c:152:LYS:HA	2.45	0.46
6:Z:276:ILE:HD12	6:Z:276:ILE:H	1.81	0.46
7:a:115:LYS:O	7:a:118:ILE:HB	2.16	0.46
9:c:151:VAL:CG2	15:D:80:LYS:HB2	2.38	0.46
11:f:39:LYS:HD3	11:f:88:SER:OG	2.15	0.46
11:f:106:LEU:HD21	11:f:136:GLU:HB3	1.98	0.46
11:f:125:ILE:HG12	11:f:126:ILE:N	2.31	0.46
11:f:300:ARG:HD2	11:f:493:ASN:CB	2.46	0.46
11:f:348:ILE:HB	11:f:751:TYR:CZ	2.51	0.46
11:f:369:ARG:HA	11:f:372:LEU:CD1	2.42	0.46
11:f:571:GLU:HG3	11:f:573:ILE:H	1.81	0.46
11:f:766:GLN:HB2	11:f:770:HIS:NE2	2.30	0.46
12:A:201:PHE:CD1	12:A:206:ILE:HD11	2.49	0.46
13:B:177:GLU:C	13:B:178:LYS:HD3	2.40	0.46
13:B:369:THR:O	13:B:372:MET:HG2	2.15	0.46
15:D:248:ARG:HA	15:D:295:GLN:HE22	1.81	0.46
17:F:399:VAL:CG2	17:F:427:VAL:HG21	2.39	0.46
21:I:38:LEU:HD23	21:I:43:VAL:CG2	2.45	0.46
23:K:67:ILE:CD1	23:K:216:GLU:HG3	2.45	0.46
23:K:157:ASP:OD1	23:K:161:THR:N	2.49	0.46
24:L:73:SER:OG	24:L:74:ILE:N	2.48	0.46
25:M:40:ARG:HH11	25:M:147:GLN:HA	1.79	0.46
25:M:70:ASP:H	25:M:73:VAL:HB	1.79	0.46
27:O:7:VAL:HG13	27:O:11:GLY:O	2.15	0.46
27:O:18:THR:HB	27:O:30:ASN:HA	1.97	0.46
27:O:36:PHE:O	27:O:37:ILE:HD13	2.15	0.46
27:O:97:ALA:HB1	27:O:127:MET:HE2	1.98	0.46
29:Q:117:TYR:HB3	29:Q:125:ALA:HB3	1.97	0.46
19:g:39:SER:HA	19:g:52:THR:OG1	2.15	0.46
19:g:201:CYS:O	19:g:205:VAL:HG23	2.16	0.46
20:h:88:HIS:O	20:h:91:ARG:HB2	2.16	0.46
21:i:119:GLN:O	21:i:122:THR:OG1	2.23	0.46
22:j:71:MET:HE2	22:j:71:MET:HA	1.97	0.46
22:j:121:SER:OG	22:j:122:ASN:N	2.48	0.46
23:k:101:PHE:HD1	30:r:57:ARG:HG2	1.80	0.46
23:k:196:LYS:O	23:k:200:ILE:HG13	2.16	0.46
25:m:49:VAL:HG23	25:m:66:LEU:HD21	1.98	0.46
26:n:14:LEU:HD11	26:n:101:ALA:HB3	1.97	0.46
26:n:40:ARG:NH1	26:n:183:GLY:HA2	2.31	0.46
27:o:36:PHE:O	27:o:37:ILE:HD13	2.15	0.46
27:o:41:ILE:HG23	27:o:101:GLY:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:o:97:ALA:HB1	27:o:127:MET:HE2	1.98	0.46
29:q:45:LEU:C	29:q:102:LEU:HG	2.41	0.46
29:q:148:THR:HG22	29:q:150:THR:H	1.81	0.46
32:t:157:GLN:HG2	32:t:159:VAL:O	2.15	0.46
1:U:7:GLY:HA2	10:d:79:LYS:CE	2.46	0.46
1:U:130:LEU:O	1:U:134:VAL:HG23	2.15	0.46
1:U:237:VAL:HG13	1:U:321:GLN:CB	2.45	0.46
1:U:372:ALA:HB1	1:U:735:GLY:HA3	1.98	0.46
1:U:623:GLY:HA2	1:U:659:CYS:HB2	1.97	0.46
2:V:88:GLY:N	2:V:123:SER:HB3	2.30	0.46
2:V:322:VAL:HG12	2:V:325:LYS:CB	2.44	0.46
2:V:407:VAL:O	2:V:411:SER:HB3	2.15	0.46
3:W:165:ILE:HG12	3:W:169:LEU:CD2	2.44	0.46
3:W:406:VAL:HA	3:W:413:ILE:HG21	1.96	0.46
4:X:266:ASP:O	4:X:270:LEU:HG	2.16	0.46
4:X:297:ARG:HD3	4:X:336:ILE:HD11	1.96	0.46
5:Y:17:LEU:HD11	5:Y:212:GLU:CB	2.46	0.46
6:Z:209:ARG:HB3	7:a:353:LEU:CD1	2.46	0.46
7:a:135:ILE:HG23	7:a:158:LEU:HD13	1.98	0.46
7:a:175:ASP:OD1	7:a:178:ARG:HB2	2.16	0.46
8:b:7:MET:O	8:b:109:ILE:HG23	2.15	0.46
8:b:70:ARG:O	8:b:74:LYS:HG2	2.16	0.46
9:c:63:ASP:OD2	9:c:65:TYR:HB2	2.16	0.46
9:c:269:GLN:O	9:c:272:ILE:HG22	2.16	0.46
10:d:79:LYS:HA	10:d:82:TYR:HD2	1.80	0.46
10:d:143:LEU:HG	10:d:148:TYR:CE1	2.51	0.46
11:f:131:MET:N	11:f:131:MET:SD	2.89	0.46
11:f:187:LEU:CD1	11:f:231:LEU:HD23	2.41	0.46
11:f:206:ASP:HA	11:f:246:SER:CB	2.31	0.46
11:f:251:CYS:HA	11:f:289:VAL:HG22	1.96	0.46
11:f:335:ARG:O	11:f:339:ILE:HG12	2.16	0.46
11:f:505:MET:HE1	11:f:515:ALA:O	2.16	0.46
11:f:773:LYS:CE	11:f:776:LEU:HD13	2.43	0.46
12:A:296:GLN:O	12:A:300:LEU:HG	2.16	0.46
13:B:49:LEU:HA	13:B:50:PRO:HD3	1.80	0.46
13:B:54:PRO:HG2	13:B:61:LYS:CG	2.41	0.46
13:B:219:PRO:HB2	13:B:348:ASP:HB2	1.97	0.46
14:C:46:GLN:NE2	15:D:61:ILE:HD11	2.31	0.46
14:C:54:ALA:O	14:C:58:LEU:HD23	2.16	0.46
14:C:197:THR:HG21	14:C:213:ARG:HH12	1.81	0.46
15:D:153:MET:CA	15:D:228:ILE:HG12	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:D:162:VAL:CG1	15:D:218:ALA:HB2	2.46	0.46
16:E:199:VAL:HG12	17:F:315:ASN:ND2	2.30	0.46
17:F:196:GLN:O	17:F:200:GLU:HG2	2.16	0.46
19:G:239:LEU:O	19:G:242:LEU:HG	2.16	0.46
20:H:187:ALA:HA	20:H:190:THR:HG22	1.97	0.46
21:I:45:LEU:O	21:I:213:ILE:HA	2.15	0.46
21:I:72:MET:HG2	21:I:138:GLY:CA	2.42	0.46
21:I:171:ALA:HB2	21:I:200:THR:HG21	1.97	0.46
23:K:32:LYS:NZ	23:K:172:SER:O	2.39	0.46
23:K:88:LEU:HD21	23:K:137:PHE:CE2	2.50	0.46
24:L:107:ARG:NH2	32:T:79:ASP:OD2	2.49	0.46
27:O:202:TYR:OH	31:s:174:LEU:HD23	2.16	0.46
28:P:70:ARG:NH1	28:P:94:LEU:HD12	2.31	0.46
28:P:163:LEU:O	28:P:167:ILE:HG22	2.15	0.46
29:Q:17:SER:OG	29:Q:35:MET:HE3	2.16	0.46
29:Q:148:THR:HG22	29:Q:150:THR:H	1.81	0.46
30:R:80:SER:HG	30:R:120:ARG:HH21	1.63	0.46
31:S:188:TYR:OH	27:o:24:MET:HE2	2.16	0.46
19:g:176:THR:O	19:g:180:GLU:HG3	2.16	0.46
22:j:96:LEU:N	29:q:62:LYS:HE2	2.31	0.46
23:k:48:LEU:HD22	23:k:67:ILE:HG13	1.98	0.46
24:l:12:VAL:HG12	24:l:13:TRP:O	2.16	0.46
26:n:18:SER:HB2	26:n:31:THR:N	2.24	0.46
1:U:84:ALA:CB	1:U:88:PHE:HB2	2.45	0.46
1:U:127:ASP:O	1:U:130:LEU:HB3	2.16	0.46
1:U:252:LEU:HD11	1:U:260:PHE:HE2	1.81	0.46
1:U:417:LYS:HE3	1:U:421:GLN:OE1	2.14	0.46
1:U:427:LEU:HB2	1:U:430:ASP:OD2	2.15	0.46
2:V:33:GLN:NE2	2:V:85:ALA:HA	2.28	0.46
2:V:80:LYS:NZ	2:V:127:THR:HA	2.28	0.46
2:V:81:GLN:HB2	2:V:86:VAL:HG23	1.98	0.46
3:W:53:GLN:O	3:W:56:THR:OG1	2.28	0.46
3:W:267:LEU:HB3	3:W:299:ILE:HD11	1.97	0.46
3:W:357:ARG:O	3:W:361:HIS:CE1	2.68	0.46
3:W:377:ARG:HA	3:W:380:GLN:NE2	2.31	0.46
4:X:347:ILE:O	4:X:350:ILE:HG22	2.16	0.46
4:X:411:VAL:HG11	5:Y:379:ARG:CG	2.46	0.46
5:Y:50:MET:CG	5:Y:74:LYS:HB3	2.38	0.46
7:a:100:THR:HA	7:a:103:LYS:CE	2.42	0.46
8:b:7:MET:CE	8:b:52:ILE:HB	2.45	0.46
8:b:48:ASN:HA	8:b:66:PRO:CA	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:54:ASP:HB3	11:f:57:GLU:H	1.81	0.46
11:f:498:LEU:CD1	11:f:526:ALA:HB3	2.43	0.46
11:f:646:MET:HG2	13:B:67:ARG:NE	2.20	0.46
11:f:764:LEU:HD12	11:f:771:LEU:HD11	1.96	0.46
11:f:777:THR:CG2	11:f:804:LEU:H	2.28	0.46
11:f:869:THR:HG21	11:f:885:GLU:O	2.15	0.46
12:A:41:TYR:OH	13:B:59:ARG:HA	2.16	0.46
12:A:183:GLN:HG2	12:A:343:PHE:HD1	1.81	0.46
12:A:376:LEU:HD13	12:A:417:ILE:CD1	2.46	0.46
13:B:48:LYS:H	13:B:48:LYS:HD2	1.81	0.46
13:B:398:ILE:HA	13:B:422:SER:OG	2.16	0.46
14:C:169:VAL:HG22	14:C:288:ASN:C	2.41	0.46
15:D:170:MET:HB3	15:D:174:LYS:HD2	1.97	0.46
15:D:284:GLU:OE1	16:E:208:ILE:HG13	2.16	0.46
15:D:370:ILE:CG2	15:D:374:ASP:HB2	2.45	0.46
19:G:39:SER:HA	19:G:52:THR:OG1	2.15	0.46
22:J:91:CYS:HA	22:J:102:VAL:HG21	1.97	0.46
23:K:200:ILE:HG23	23:K:203:LYS:HE3	1.98	0.46
25:M:50:GLU:HG3	25:M:209:PHE:CD2	2.50	0.46
25:M:66:LEU:HD12	25:M:212:GLU:HB3	1.97	0.46
32:T:145:LEU:CD2	27:o:132:LEU:HB3	2.46	0.46
19:g:175:SER:O	19:g:179:LEU:HG	2.16	0.46
20:h:111:VAL:HG21	20:h:147:PHE:CD2	2.42	0.46
22:j:26:VAL:HA	22:j:75:GLY:CA	2.45	0.46
23:k:20:ARG:HG3	23:k:21:LEU:H	1.81	0.46
23:k:157:ASP:OD1	23:k:161:THR:N	2.49	0.46
25:m:35:THR:HA	25:m:165:ILE:O	2.14	0.46
25:m:189:ILE:HD13	25:m:192:GLU:HG3	1.98	0.46
27:o:175:LEU:HD12	27:o:189:TYR:CG	2.50	0.46
29:q:41:LYS:O	29:q:106:GLY:HA2	2.15	0.46
29:q:161:ARG:O	29:q:165:GLU:HG3	2.15	0.46
31:s:58:HIS:O	31:s:62:LEU:HG	2.16	0.46
1:U:51:ASP:CB	1:U:54:PHE:HB2	2.41	0.46
1:U:61:ALA:HB1	1:U:80:TYR:O	2.15	0.46
1:U:243:LEU:HD21	1:U:903:PHE:CG	2.51	0.46
1:U:368:ALA:HB1	1:U:731:ILE:CG2	2.45	0.46
2:V:162:GLU:OE1	2:V:163:VAL:HG23	2.16	0.46
3:W:55:ARG:NH1	3:W:79:GLU:HG3	2.26	0.46
3:W:117:ASP:O	3:W:120:ILE:HG22	2.16	0.46
3:W:254:PRO:O	3:W:263:TRP:HB2	2.15	0.46
3:W:285:ASP:OD1	3:W:286:LEU:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:306:LEU:HA	3:W:309:PHE:CE2	2.51	0.46
4:X:58:ALA:HA	4:X:99:MET:SD	2.56	0.46
5:Y:196:GLN:CA	5:Y:200:LEU:HB2	2.46	0.46
5:Y:229:ILE:HG21	5:Y:294:TYR:HE2	1.80	0.46
5:Y:279:GLU:OE2	5:Y:291:HIS:NE2	2.48	0.46
6:Z:234:PHE:HA	6:Z:237:LEU:CD2	2.46	0.46
7:a:28:LEU:CD2	7:a:37:LEU:HA	2.46	0.46
7:a:77:VAL:CA	7:a:80:ILE:HG22	2.39	0.46
8:b:107:MET:CE	8:b:134:GLU:HB3	2.44	0.46
8:b:147:GLU:HG2	8:b:151:GLU:O	2.15	0.46
9:c:236:GLU:HA	9:c:239:LYS:HB3	1.98	0.46
10:d:52:ARG:HD3	10:d:81:TYR:HB2	1.97	0.46
11:f:394:ASP:OD1	11:f:395:GLY:N	2.49	0.46
11:f:606:VAL:HG22	13:B:71:TYR:CZ	2.51	0.46
12:A:224:LEU:CD1	35:A:501:ATP:H2'	2.45	0.46
13:B:151:LEU:HD12	13:B:161:GLY:CA	2.46	0.46
13:B:292:THR:OG1	13:B:336:THR:O	2.31	0.46
14:C:157:GLN:NE2	14:C:318:PRO:HD2	2.26	0.46
15:D:263:PHE:CE2	15:D:265:ASP:HB2	2.51	0.46
17:F:198:LEU:CD2	17:F:202:ILE:HD12	2.46	0.46
22:J:114:LEU:HA	22:J:117:ARG:NH1	2.31	0.46
23:K:196:LYS:O	23:K:200:ILE:HG13	2.16	0.46
23:K:238:ILE:O	23:K:241:ILE:HG22	2.15	0.46
24:L:12:VAL:HG12	24:L:13:TRP:O	2.16	0.46
25:M:69:VAL:HG23	25:M:75:MET:CG	2.46	0.46
26:N:18:SER:HB2	26:N:31:THR:N	2.24	0.46
28:P:28:PHE:CD2	28:P:35:VAL:HB	2.51	0.46
19:g:42:VAL:HA	19:g:165:ALA:CB	2.46	0.46
19:g:158:GLY:O	20:h:84:ARG:NH2	2.49	0.46
22:j:56:GLU:O	22:j:59:VAL:HG12	2.16	0.46
22:j:71:MET:CE	22:j:133:ILE:HG23	2.45	0.46
23:k:36:THR:O	23:k:50:VAL:HG23	2.16	0.46
24:l:116:THR:O	24:l:120:THR:HG23	2.15	0.46
27:o:8:TYR:HE2	27:o:10:ASP:HB2	1.81	0.46
29:q:2:GLU:OE1	29:q:2:GLU:N	2.49	0.46
29:q:17:SER:OG	29:q:35:MET:HE3	2.16	0.46
29:q:29:LYS:HE3	29:q:32:HIS:CA	2.45	0.46
1:U:79:ASN:O	1:U:82:LEU:HB2	2.16	0.46
1:U:151:ILE:HD11	1:U:163:PHE:CE1	2.51	0.46
1:U:225:ASP:CG	1:U:228:ALA:HB3	2.41	0.46
1:U:373:ASN:HA	1:U:376:MET:CG	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:443:LEU:CD2	1:U:446:LEU:HD22	2.45	0.46
1:U:683:VAL:O	1:U:687:ALA:HB3	2.15	0.46
1:U:789:ILE:O	1:U:911:ILE:HA	2.15	0.46
2:V:163:VAL:HG22	2:V:175:MET:HE2	1.98	0.46
2:V:170:LEU:O	2:V:170:LEU:HD23	2.15	0.46
3:W:90:LEU:HD13	3:W:97:LEU:CB	2.45	0.46
3:W:122:LEU:HA	3:W:125:ILE:CG2	2.44	0.46
4:X:175:LYS:HD2	4:X:213:GLN:HE22	1.81	0.46
4:X:258:LYS:HE3	4:X:270:LEU:HD11	1.97	0.46
5:Y:117:LYS:HB3	5:Y:151:TYR:CE2	2.50	0.46
5:Y:177:ARG:HG2	14:C:336:MET:O	2.16	0.46
5:Y:285:ASP:OD1	5:Y:287:LEU:HG	2.16	0.46
7:a:186:LYS:HA	7:a:186:LYS:HE2	1.97	0.46
8:b:54:LEU:HA	8:b:58:CYS:SG	2.55	0.46
10:d:56:GLU:HG2	10:d:98:LEU:HD22	1.97	0.46
10:d:219:PRO:O	10:d:223:TYR:OH	2.31	0.46
11:f:192:VAL:HG22	11:f:230:CYS:SG	2.56	0.46
11:f:302:GLY:HA2	11:f:317:LEU:CD1	2.35	0.46
11:f:490:ALA:HA	11:f:524:MET:O	2.16	0.46
11:f:764:LEU:HD21	11:f:774:GLY:O	2.16	0.46
12:A:210:LYS:NZ	12:A:313:GLY:O	2.28	0.46
12:A:386:ARG:NH2	13:B:345:GLY:HA2	2.31	0.46
13:B:362:LYS:HE2	13:B:381:ASP:OD1	2.16	0.46
14:C:17:GLY:CA	14:C:21:ARG:HB2	2.39	0.46
14:C:325:ARG:CD	14:C:354:ALA:HB3	2.46	0.46
15:D:100:THR:HG23	15:D:113:VAL:O	2.15	0.46
15:D:246:MET:O	15:D:250:VAL:HG23	2.15	0.46
19:G:77:GLY:HA3	19:G:227:PHE:CD1	2.51	0.46
19:G:132:ARG:HB3	25:M:124:LEU:HD22	1.96	0.46
20:H:8:PHE:CE2	21:I:6:ASP:HA	2.51	0.46
23:K:123:PHE:HB2	23:K:134:SER:C	2.41	0.46
24:L:117:GLN:HG2	25:M:86:SER:OG	2.14	0.46
24:L:173:GLU:HG3	25:M:56:LYS:CE	2.46	0.46
25:M:220:THR:HB	25:M:223:ARG:O	2.16	0.46
28:P:26:ARG:HB2	28:P:183:MET:O	2.16	0.46
23:k:67:ILE:CD1	23:k:216:GLU:HG3	2.45	0.46
25:m:220:THR:HB	25:m:223:ARG:O	2.16	0.46
28:p:100:PHE:O	28:p:102:PRO:HD3	2.16	0.46
32:t:116:ALA:O	32:t:119:GLU:HB2	2.16	0.46
1:U:184:CYS:O	1:U:188:MET:HE2	2.16	0.45
1:U:500:ASN:CG	1:U:512:ALA:HB2	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:111:TYR:O	2:V:115:LYS:HE3	2.16	0.45
3:W:75:TYR:HA	3:W:78:LYS:HE2	1.97	0.45
3:W:364:ARG:O	3:W:368:LYS:HG3	2.16	0.45
3:W:395:ASN:HA	3:W:398:VAL:CG2	2.46	0.45
4:X:313:LEU:CD1	4:X:323:LEU:HD11	2.45	0.45
5:Y:29:PRO:HB2	5:Y:32:ARG:HB3	1.97	0.45
5:Y:133:ALA:O	5:Y:137:ARG:HG3	2.16	0.45
7:a:55:GLY:O	7:a:58:LYS:HG2	2.16	0.45
7:a:105:LYS:O	7:a:105:LYS:HD2	2.17	0.45
7:a:179:PHE:O	7:a:183:VAL:HG12	2.15	0.45
7:a:246:GLU:CD	7:a:249:GLN:HB2	2.42	0.45
8:b:98:LYS:HD3	8:b:134:GLU:OE2	2.16	0.45
9:c:179:SER:HA	9:c:183:HIS:HB2	1.99	0.45
10:d:49:ILE:CD1	10:d:52:ARG:HH11	2.29	0.45
11:f:68:THR:HG23	11:f:90:THR:CB	2.41	0.45
11:f:179:VAL:HG11	11:f:212:GLU:OE2	2.15	0.45
11:f:532:GLY:O	11:f:535:THR:HB	2.16	0.45
11:f:597:VAL:HA	11:f:600:TYR:HB2	1.97	0.45
13:B:368:HIS:HB3	13:B:399:CYS:HB2	1.98	0.45
13:B:383:LEU:HD22	13:B:423:LYS:HG3	1.97	0.45
14:C:78:ARG:NH1	14:C:80:MET:HE3	2.31	0.45
14:C:113:ARG:NH2	14:C:130:LYS:HD3	2.31	0.45
14:C:161:ILE:O	14:C:165:ILE:HB	2.16	0.45
15:D:125:LYS:CE	15:D:126:PRO:HD3	2.35	0.45
15:D:274:ARG:HG3	15:D:275:PHE:HD1	1.76	0.45
22:J:56:GLU:O	22:J:59:VAL:HG12	2.16	0.45
25:M:210:GLU:OE1	25:M:210:GLU:HA	2.10	0.45
27:O:114:TYR:HB2	27:O:118:SER:OG	2.15	0.45
29:Q:45:LEU:C	29:Q:102:LEU:HG	2.41	0.45
32:T:148:PRO:HB3	27:o:165:ASN:ND2	2.32	0.45
20:h:19:LEU:CD1	20:h:22:ILE:HD12	2.45	0.45
23:k:46:VAL:CG2	23:k:151:PRO:HB2	2.43	0.45
23:k:200:ILE:HG23	23:k:203:LYS:HE3	1.98	0.45
24:l:156:CYS:SG	24:l:159:MET:HG2	2.56	0.45
26:n:29:ARG:HH22	27:o:139:GLU:HG2	1.80	0.45
29:q:12:TYR:HA	29:q:183:ILE:O	2.16	0.45
29:q:35:MET:HG2	29:q:45:LEU:CD2	2.47	0.45
31:s:2:PHE:CE1	32:t:105:PRO:HG3	2.51	0.45
31:s:122:TYR:CE1	31:s:132:ARG:HB2	2.52	0.45
1:U:532:MET:O	1:U:548:LEU:HD23	2.16	0.45
1:U:654:MET:HE1	1:U:767:THR:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:70:VAL:HG22	2:V:209:LYS:NZ	2.31	0.45
2:V:187:ILE:O	2:V:191:LEU:HB2	2.16	0.45
2:V:306:ARG:HD3	2:V:339:LEU:CD1	2.46	0.45
2:V:480:ILE:HD11	6:Z:261:TYR:HA	1.98	0.45
3:W:10:ASP:O	3:W:13:ILE:HG12	2.16	0.45
3:W:179:LYS:CG	3:W:212:LYS:HZ1	2.22	0.45
4:X:142:ARG:HB3	4:X:145:GLU:CD	2.41	0.45
4:X:346:GLN:HG3	4:X:348:GLU:OE2	2.15	0.45
5:Y:24:PHE:HD2	5:Y:286:TRP:HB2	1.81	0.45
5:Y:108:ALA:O	5:Y:111:LEU:HB2	2.16	0.45
5:Y:268:TYR:HA	5:Y:271:PHE:CE2	2.52	0.45
8:b:171:VAL:HG13	8:b:183:LEU:HD11	1.98	0.45
9:c:119:GLY:HA2	9:c:190:GLN:HG3	1.98	0.45
10:d:106:LEU:HG	10:d:111:ARG:HB2	1.98	0.45
11:f:171:GLN:NE2	11:f:179:VAL:HA	2.29	0.45
11:f:479:LEU:CD1	11:f:514:VAL:HG22	2.42	0.45
11:f:634:LYS:HD2	11:f:637:LYS:CD	2.32	0.45
11:f:795:GLY:O	11:f:799:VAL:HG12	2.16	0.45
13:B:415:THR:O	13:B:418:ASP:HB2	2.17	0.45
14:C:100:ASP:H	14:C:103:ILE:CD1	2.27	0.45
14:C:347:ILE:HD13	14:C:383:PHE:CB	2.46	0.45
15:D:366:ARG:HB3	15:D:368:ASP:OD2	2.15	0.45
16:E:83:CYS:CB	16:E:89:LYS:HE2	2.41	0.45
16:E:225:HIS:HB2	16:E:228:CYS:SG	2.56	0.45
16:E:387:LYS:HG3	16:E:388:PRO:HD2	1.96	0.45
19:G:228:ARG:HH22	19:G:234:GLU:CD	2.25	0.45
24:L:171:TYR:HA	24:L:174:ARG:NH1	2.30	0.45
24:L:189:LYS:HG3	24:L:193:ARG:NH1	2.28	0.45
24:L:229:VAL:O	24:L:233:LEU:N	2.49	0.45
25:M:34:SER:OG	25:M:65:ARG:NH2	2.42	0.45
29:Q:161:ARG:O	29:Q:165:GLU:HG3	2.15	0.45
30:R:182:ASP:OD1	30:R:183:GLY:N	2.50	0.45
32:T:12:LEU:O	32:T:22:ILE:HG23	2.17	0.45
32:T:96:MET:HE1	32:T:106:LEU:CD1	2.36	0.45
21:i:34:CYS:C	21:i:164:ILE:HD12	2.41	0.45
23:k:123:PHE:HB2	23:k:134:SER:C	2.41	0.45
24:l:174:ARG:HG3	24:l:175:HIS:CE1	2.51	0.45
24:l:216:GLY:CA	24:l:219:LEU:HB3	2.46	0.45
25:m:39:ILE:HD12	25:m:162:GLY:HA3	1.99	0.45
27:o:6:VAL:CG2	27:o:124:TYR:HB3	2.40	0.45
27:o:34:ILE:HD12	27:o:174:ASP:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:s:174:LEU:O	31:s:178:VAL:HG13	2.17	0.45
1:U:92:ASP:HB3	1:U:136:LYS:NZ	2.32	0.45
1:U:105:ILE:O	1:U:109:THR:HG22	2.16	0.45
1:U:580:ARG:HD2	1:U:613:ASP:CA	2.00	0.45
1:U:801:GLN:CB	1:U:877:LEU:HD22	2.42	0.45
2:V:66:GLU:O	2:V:69:THR:OG1	2.28	0.45
2:V:190:ASP:C	2:V:191:LEU:HD12	2.41	0.45
2:V:329:HIS:CD2	2:V:345:ARG:HD3	2.51	0.45
2:V:394:LEU:HD12	2:V:395:ILE:N	2.31	0.45
3:W:32:ALA:HB1	3:W:86:ASN:HD21	1.81	0.45
5:Y:316:LEU:CG	5:Y:352:GLU:HG3	2.46	0.45
7:a:135:ILE:HG23	7:a:158:LEU:CD1	2.45	0.45
7:a:343:LEU:O	7:a:346:ILE:HB	2.15	0.45
9:c:63:ASP:OD1	9:c:66:THR:N	2.31	0.45
10:d:200:PHE:HB2	10:d:205:LYS:CE	2.46	0.45
11:f:69:SER:C	11:f:70:LEU:HD12	2.40	0.45
11:f:441:LYS:HD2	11:f:477:MET:HE1	1.97	0.45
11:f:831:VAL:CG2	11:f:861:THR:HG21	2.47	0.45
11:f:839:PRO:HB2	12:A:361:SER:HA	1.96	0.45
12:A:397:ILE:HG23	13:B:210:TYR:HB2	1.99	0.45
15:D:203:LEU:HD13	15:D:204:MET:N	2.31	0.45
15:D:211:GLY:CA	15:D:214:MET:HB3	2.45	0.45
16:E:149:ILE:CD1	16:E:276:ILE:HD11	2.46	0.45
16:E:321:THR:OG1	17:F:215:LEU:HA	2.16	0.45
28:P:149:MET:HE1	31:s:148:LEU:N	2.30	0.45
31:S:210:LEU:O	31:S:212:LYS:HD2	2.16	0.45
32:T:116:ALA:O	32:T:119:GLU:HB2	2.16	0.45
21:i:34:CYS:HB2	21:i:164:ILE:CD1	2.43	0.45
21:i:171:ALA:HB2	21:i:200:THR:CG2	2.46	0.45
22:j:38:ARG:NH1	22:j:182:GLU:O	2.48	0.45
23:k:201:ILE:O	23:k:205:VAL:HG22	2.17	0.45
30:r:182:ASP:OD1	30:r:183:GLY:N	2.50	0.45
32:t:147:GLN:OE1	32:t:151:ARG:HG3	2.15	0.45
33:v:192:ALA:C	33:v:194:ALA:N	2.72	0.45
1:U:197:VAL:O	1:U:201:LEU:HG	2.16	0.45
1:U:221:ILE:HG21	1:U:256:ALA:HB2	1.98	0.45
1:U:337:LEU:CD2	1:U:911:ILE:HD12	2.45	0.45
1:U:469:SER:OG	1:U:470:ASN:N	2.48	0.45
1:U:490:ARG:CB	1:U:493:VAL:HG12	2.43	0.45
2:V:40:GLU:HA	2:V:43:THR:HB	1.98	0.45
2:V:323:GLY:CA	18:e:6:GLN:HB2	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:416:ARG:HG3	2:V:459:GLN:CB	2.47	0.45
3:W:34:LEU:O	3:W:44:ILE:HD11	2.17	0.45
3:W:37:GLU:HB2	3:W:44:ILE:CD1	2.47	0.45
3:W:72:LYS:HD3	3:W:123:ARG:HB2	1.98	0.45
3:W:115:ILE:HG12	3:W:119:PRO:HB2	1.97	0.45
3:W:422:ASN:ND2	9:c:234:TYR:HB2	2.31	0.45
4:X:62:GLN:HG3	4:X:65:GLU:HB2	1.99	0.45
5:Y:285:ASP:OD1	5:Y:287:LEU:HD23	2.17	0.45
6:Z:186:THR:O	6:Z:187:LEU:HG	2.16	0.45
7:a:210:VAL:HG23	7:a:213:PHE:CD2	2.51	0.45
8:b:61:LEU:O	8:b:74:LYS:HE2	2.16	0.45
9:c:189:ILE:O	9:c:192:LEU:HG	2.16	0.45
10:d:78:LEU:HD13	10:d:98:LEU:CD2	2.31	0.45
11:f:218:GLU:O	11:f:222:ASP:HB2	2.16	0.45
11:f:560:LEU:CD1	11:f:564:LEU:HG	2.45	0.45
11:f:579:ALA:O	11:f:583:VAL:HG13	2.16	0.45
11:f:669:GLU:OE1	11:f:787:LEU:HD21	2.17	0.45
11:f:681:TYR:O	11:f:716:ASP:HB3	2.16	0.45
11:f:757:ASN:CB	33:v:213:ILE:HG13	2.45	0.45
11:f:815:HIS:HA	11:f:819:TYR:HD1	1.82	0.45
12:A:72:LEU:HD11	13:B:103:ARG:NH1	2.20	0.45
13:B:365:PHE:CE2	13:B:384:ILE:HG12	2.52	0.45
13:B:365:PHE:O	13:B:369:THR:OG1	2.18	0.45
13:B:369:THR:HA	13:B:372:MET:SD	2.56	0.45
14:C:45:LEU:CB	15:D:61:ILE:HG21	2.29	0.45
14:C:163:GLU:O	14:C:167:LEU:HB3	2.17	0.45
14:C:266:ASP:HA	14:C:270:GLN:NE2	2.32	0.45
15:D:99:ASN:HA	15:D:115:ILE:CG1	2.46	0.45
16:E:139:SER:HA	16:E:142:ILE:CD1	2.43	0.45
16:E:355:ILE:HG23	17:F:211:LYS:HD3	1.98	0.45
37:E:401:ADP:H4'	17:F:344:ARG:NH2	2.32	0.45
19:G:42:VAL:HA	19:G:165:ALA:CB	2.46	0.45
25:M:39:ILE:HD12	25:M:162:GLY:HA3	1.99	0.45
25:M:172:ALA:O	25:M:176:ILE:HG13	2.17	0.45
28:P:98:LYS:HG3	28:P:103:TYR:CE2	2.52	0.45
31:S:30:SER:CB	31:S:35:ILE:HD13	2.45	0.45
19:g:77:GLY:HA3	19:g:227:PHE:CD1	2.51	0.45
19:g:239:LEU:O	19:g:242:LEU:HG	2.16	0.45
23:k:228:MET:HE3	23:k:230:THR:CG2	2.44	0.45
23:k:229:PHE:HE2	23:k:234:LEU:HD12	1.79	0.45
24:l:41:LYS:HG2	24:l:180:MET:CE	2.38	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:l:64:LEU:HD12	24:l:64:LEU:O	2.16	0.45
25:m:76:ALA:HB3	25:m:136:MET:CB	2.41	0.45
28:p:70:ARG:NH1	28:p:94:LEU:HD12	2.31	0.45
29:q:177:THR:HA	29:q:195:SER:HA	1.98	0.45
30:r:26:ILE:HG21	30:r:29:GLN:HE21	1.81	0.45
30:r:64:ARG:O	30:r:68:LEU:HG	2.16	0.45
1:U:802:TYR:CZ	1:U:878:LEU:HD12	2.52	0.45
2:V:33:GLN:HG2	2:V:85:ALA:HA	1.98	0.45
2:V:214:HIS:HA	2:V:217:VAL:HB	1.97	0.45
3:W:122:LEU:O	3:W:125:ILE:HG22	2.17	0.45
3:W:268:LYS:HG3	3:W:333:LEU:HD21	1.97	0.45
4:X:152:GLN:C	4:X:153:LEU:HD22	2.40	0.45
4:X:226:LYS:O	4:X:229:TYR:HB3	2.16	0.45
4:X:345:VAL:O	4:X:384:VAL:HA	2.17	0.45
4:X:364:LYS:O	4:X:367:GLN:HB3	2.16	0.45
4:X:401:LEU:O	4:X:404:ILE:HB	2.17	0.45
4:X:407:MET:HB3	5:Y:376:LEU:HD11	1.98	0.45
5:Y:61:LEU:HD12	5:Y:62:ASP:N	2.32	0.45
5:Y:297:ARG:HA	5:Y:300:ARG:H	1.81	0.45
6:Z:10:VAL:HG22	6:Z:161:GLU:OE2	2.16	0.45
7:a:78:GLU:HA	7:a:81:LEU:CD2	2.47	0.45
8:b:128:ALA:HB1	8:b:159:THR:C	2.42	0.45
11:f:611:GLN:HA	11:f:615:ILE:CD1	2.46	0.45
11:f:669:GLU:OE2	11:f:701:ASN:HB2	2.15	0.45
11:f:846:VAL:HG13	12:A:231:ASN:OD1	2.16	0.45
12:A:58:LYS:HA	12:A:58:LYS:HE2	1.97	0.45
12:A:312:ARG:NE	12:A:315:ILE:HB	2.32	0.45
13:B:104:GLY:O	13:B:107:MET:SD	2.74	0.45
13:B:224:LEU:HB3	13:B:353:PHE:CE2	2.51	0.45
14:C:211:PHE:HA	14:C:245:ILE:O	2.16	0.45
14:C:389:LYS:HE2	14:C:393:LYS:CE	2.46	0.45
17:F:233:LYS:NZ	17:F:354:PHE:CE2	2.84	0.45
19:G:43:ARG:HB3	19:G:164:LYS:O	2.17	0.45
19:G:175:SER:O	19:G:179:LEU:HG	2.16	0.45
24:L:41:LYS:NZ	24:L:181:GLU:HA	2.32	0.45
24:L:64:LEU:HD12	24:L:64:LEU:O	2.17	0.45
24:L:64:LEU:CD1	24:L:72:ILE:HD11	2.45	0.45
24:L:216:GLY:CA	24:L:219:LEU:HB3	2.46	0.45
31:S:58:HIS:O	31:S:62:LEU:HG	2.16	0.45
32:T:208:ASN:OD1	32:T:209:TRP:N	2.50	0.45
26:n:30:VAL:HG22	26:n:175:ARG:HH21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:o:54:MET:HG3	28:p:96:TYR:CD1	2.52	0.45
28:p:98:LYS:HG3	28:p:103:TYR:CE2	2.52	0.45
31:s:30:SER:CB	31:s:35:ILE:HD13	2.45	0.45
31:s:210:LEU:O	31:s:212:LYS:HD2	2.16	0.45
1:U:490:ARG:HB2	1:U:493:VAL:CG1	2.45	0.45
1:U:654:MET:O	1:U:658:ILE:HG23	2.17	0.45
1:U:798:PRO:HB2	1:U:914:LEU:HD23	1.98	0.45
1:U:798:PRO:HG2	1:U:880:ASN:OD1	2.16	0.45
2:V:103:SER:O	2:V:107:ARG:HD3	2.16	0.45
2:V:156:SER:O	2:V:160:LEU:HG	2.17	0.45
2:V:163:VAL:HG11	2:V:213:TYR:CB	2.47	0.45
2:V:363:LEU:HD13	2:V:386:PHE:CZ	2.52	0.45
2:V:497:PRO:HG3	6:Z:282:ASN:CB	2.46	0.45
4:X:225:TRP:CZ3	4:X:260:MET:HG2	2.51	0.45
4:X:407:MET:SD	6:Z:266:ILE:HG13	2.56	0.45
5:Y:173:ASP:OD1	14:C:335:LYS:NZ	2.40	0.45
5:Y:231:LEU:HB2	5:Y:234:PRO:CD	2.46	0.45
6:Z:26:ILE:HD11	6:Z:35:VAL:HG22	1.99	0.45
9:c:244:VAL:HG13	9:c:287:HIS:ND1	2.32	0.45
10:d:234:ASP:OD2	10:d:237:ILE:HG13	2.16	0.45
11:f:226:TYR:CE2	13:B:63:LEU:HB3	2.47	0.45
11:f:272:LEU:HA	11:f:275:MET:HB2	1.99	0.45
11:f:552:ASP:HB3	11:f:556:ARG:CB	2.46	0.45
11:f:616:CYS:CB	11:f:629:LYS:HG2	2.43	0.45
11:f:690:VAL:HG11	11:f:713:PHE:CD1	2.52	0.45
11:f:758:ASN:HB2	11:f:809:ILE:HD13	1.98	0.45
12:A:140:VAL:CA	12:A:153:LEU:HD13	2.45	0.45
12:A:240:VAL:HB	12:A:274:PHE:HD1	1.81	0.45
13:B:151:LEU:N	13:B:161:GLY:O	2.47	0.45
13:B:287:ILE:HA	13:B:290:ILE:HD11	1.97	0.45
14:C:117:ARG:HB3	14:C:122:THR:H	1.81	0.45
14:C:277:LEU:O	14:C:277:LEU:HD13	2.17	0.45
14:C:296:ASN:HA	14:C:298:ILE:HD11	1.98	0.45
14:C:337:ASN:HD22	15:D:193:GLN:HG2	1.81	0.45
15:D:273:LYS:NZ	15:D:319:PRO:HD2	2.31	0.45
16:E:72:LYS:HG2	16:E:73:ALA:O	2.17	0.45
16:E:87:LEU:HD11	16:E:107:ILE:HG22	1.98	0.45
16:E:126:ASP:HB2	17:F:320:PHE:CZ	2.52	0.45
19:G:29:PHE:CE1	19:G:156:PRO:HG2	2.52	0.45
19:G:176:THR:O	19:G:180:GLU:HG3	2.16	0.45
19:G:201:CYS:O	19:G:205:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:H:88:HIS:O	20:H:91:ARG:HB2	2.15	0.45
20:H:157:ALA:O	21:I:57:ASP:N	2.44	0.45
21:I:174:MET:CE	21:I:199:LYS:HD3	2.47	0.45
26:N:4:MET:SD	26:N:127:ILE:HG22	2.56	0.45
27:O:103:VAL:HG23	27:O:178:ILE:HG22	1.99	0.45
22:j:32:ALA:O	22:j:161:ILE:HG13	2.16	0.45
24:l:229:VAL:O	24:l:233:LEU:N	2.49	0.45
2:V:240:LEU:HD12	2:V:241:ARG:HG3	1.97	0.45
3:W:79:GLU:OE2	3:W:104:MET:HE3	2.17	0.45
3:W:93:ARG:O	3:W:93:ARG:HG3	2.16	0.45
3:W:283:GLN:O	3:W:287:VAL:HG22	2.17	0.45
4:X:318:ILE:HB	4:X:322:HIS:CE1	2.51	0.45
5:Y:179:ARG:HD2	5:Y:182:VAL:CG2	2.47	0.45
5:Y:271:PHE:HD2	5:Y:323:PHE:HE1	1.65	0.45
7:a:243:GLY:CA	7:a:275:LEU:HG	2.45	0.45
9:c:57:MET:HG3	9:c:69:VAL:HG21	1.98	0.45
9:c:88:ASP:HB2	9:c:90:VAL:HG22	1.98	0.45
11:f:13:PRO:HB3	11:f:38:ASP:OD2	2.17	0.45
11:f:173:LEU:HD13	12:A:402:LYS:HZ3	1.82	0.45
11:f:602:GLY:O	11:f:603:SER:OG	2.28	0.45
11:f:664:GLU:OE2	13:B:86:LYS:HE2	2.16	0.45
11:f:781:TYR:CE1	11:f:799:VAL:HG23	2.43	0.45
12:A:222:LYS:CA	12:A:343:PHE:CE2	2.96	0.45
13:B:51:LEU:HD21	13:B:53:THR:CG2	2.47	0.45
13:B:232:LYS:NZ	37:B:501:ADP:O2B	2.46	0.45
13:B:383:LEU:HD13	13:B:423:LYS:CB	2.42	0.45
14:C:62:GLU:OE2	14:C:66:LEU:HD13	2.16	0.45
15:D:54:LEU:O	15:D:54:LEU:HD13	2.17	0.45
15:D:160:PRO:HG2	15:D:217:LYS:O	2.17	0.45
15:D:385:LEU:CD2	15:D:398:ASP:HA	2.35	0.45
16:E:126:ASP:HB2	17:F:320:PHE:HZ	1.82	0.45
17:F:251:LEU:HD23	17:F:285:ILE:CG1	2.39	0.45
17:F:380:ASN:O	17:F:384:LEU:HG	2.16	0.45
19:G:61:LEU:HA	25:M:160:TYR:CD1	2.52	0.45
19:G:115:CYS:SG	19:G:140:LEU:HD22	2.57	0.45
22:J:32:ALA:O	22:J:161:ILE:HG13	2.16	0.45
22:J:89:VAL:HG22	29:Q:66:LEU:HD11	1.99	0.45
23:K:119:LEU:HA	23:K:122:GLN:HG3	1.99	0.45
24:L:174:ARG:HG3	24:L:175:HIS:CE1	2.51	0.45
25:M:37:ILE:HD11	25:M:197:ILE:HD11	1.95	0.45
27:O:8:TYR:HE2	27:O:10:ASP:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:O:80:ASN:O	27:O:84:LYS:HG2	2.17	0.45
28:P:4:MET:HE1	28:P:104:TYR:CA	2.47	0.45
29:Q:18:ASP:HA	29:Q:178:PHE:HD1	1.82	0.45
29:Q:25:ILE:O	29:q:172:ILE:HG23	2.16	0.45
29:Q:164:LEU:HA	29:Q:167:LEU:HG	1.97	0.45
30:R:38:ASN:ND2	30:R:41:LEU:HD12	2.28	0.45
31:S:122:TYR:CE1	31:S:132:ARG:HB2	2.52	0.45
19:g:138:MET:HG3	19:g:140:LEU:CD1	2.47	0.45
22:j:114:LEU:HA	22:j:117:ARG:NH1	2.31	0.45
23:k:52:LYS:HZ2	23:k:216:GLU:HB3	1.80	0.45
25:m:69:VAL:HG23	25:m:75:MET:CG	2.46	0.45
1:U:27:LEU:HB2	1:U:59:PHE:CE2	2.43	0.45
1:U:576:PRO:HA	1:U:579:ARG:HH21	1.81	0.45
1:U:692:ALA:O	1:U:737:LEU:HD13	2.17	0.45
1:U:787:CYS:O	1:U:910:GLY:N	2.50	0.45
2:V:89:LYS:CD	2:V:118:GLN:HE22	2.29	0.45
2:V:253:LEU:O	2:V:256:ARG:HG2	2.16	0.45
2:V:306:ARG:CD	2:V:336:GLU:HG2	2.43	0.45
2:V:330:LYS:O	2:V:334:VAL:HG23	2.17	0.45
3:W:320:LEU:HG	3:W:324:TYR:CD2	2.52	0.45
3:W:348:GLU:HA	3:W:351:TRP:CD1	2.45	0.45
4:X:134:VAL:HG11	4:X:149:LEU:CD2	2.39	0.45
4:X:286:ALA:O	4:X:290:VAL:HG23	2.17	0.45
4:X:297:ARG:HD2	4:X:337:ARG:NE	2.32	0.45
4:X:369:ILE:HG13	4:X:374:PHE:HD2	1.82	0.45
5:Y:146:ARG:HH21	5:Y:211:TYR:HB3	1.82	0.45
5:Y:278:VAL:HG11	5:Y:295:TYR:OH	2.17	0.45
5:Y:326:GLY:HA3	18:e:62:LYS:NZ	2.31	0.45
6:Z:8:LYS:NZ	6:Z:47:VAL:HG21	2.32	0.45
6:Z:121:LEU:HD23	6:Z:155:PHE:CE1	2.52	0.45
7:a:72:ASN:HA	7:a:108:ASP:CG	2.42	0.45
8:b:12:ASN:HB2	8:b:80:PRO:HA	1.97	0.45
8:b:26:LEU:CG	8:b:80:PRO:HG3	2.47	0.45
10:d:104:LEU:HG	10:d:166:PHE:HB2	1.99	0.45
10:d:234:ASP:O	10:d:235:THR:OG1	2.26	0.45
11:f:205:CYS:SG	11:f:213:GLN:NE2	2.88	0.45
11:f:408:LEU:HA	11:f:439:TYR:O	2.16	0.45
11:f:808:ASN:HB3	11:f:809:ILE:H	1.55	0.45
12:A:174:TYR:HD1	12:A:228:ALA:HB1	1.82	0.45
12:A:225:CYS:O	12:A:229:VAL:HG23	2.17	0.45
13:B:56:THR:O	13:B:61:LYS:HD3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B:322:ARG:HB3	13:B:325:VAL:CG2	2.40	0.45
14:C:306:LEU:HB3	14:C:311:ILE:HG13	1.99	0.45
15:D:146:GLU:HB3	15:D:256:GLU:CD	2.41	0.45
16:E:150:GLU:O	16:E:154:THR:HG23	2.16	0.45
16:E:175:PRO:O	16:E:178:THR:HG23	2.17	0.45
16:E:251:ARG:HB3	16:E:255:ARG:NH2	2.31	0.45
16:E:374:VAL:O	16:E:377:SER:OG	2.26	0.45
17:F:358:ASN:O	17:F:362:ARG:NH1	2.50	0.45
19:G:84:THR:HB	25:M:156:VAL:HG22	1.98	0.45
20:H:150:ASP:OD2	20:H:154:ALA:HB3	2.17	0.45
20:H:209:GLU:OE2	20:H:220:ARG:NE	2.45	0.45
21:I:3:ARG:HH12	23:K:11:GLY:CA	2.26	0.45
21:I:72:MET:SD	21:I:107:CYS:HA	2.57	0.45
23:K:201:ILE:O	23:K:205:VAL:HG22	2.17	0.45
26:N:40:ARG:HH11	26:N:40:ARG:CG	2.29	0.45
29:Q:164:LEU:HA	29:Q:167:LEU:CG	2.47	0.45
22:j:11:SER:OG	22:j:13:ASP:OD1	2.08	0.45
25:m:213:LEU:O	25:m:227:VAL:HG22	2.17	0.45
25:m:216:VAL:HA	25:m:220:THR:HG21	1.99	0.45
26:n:4:MET:SD	26:n:127:ILE:HG22	2.56	0.45
27:o:80:ASN:O	27:o:84:LYS:HG2	2.17	0.45
29:q:62:LYS:O	29:q:66:LEU:HD23	2.17	0.45
32:t:12:LEU:O	32:t:22:ILE:HG23	2.17	0.45
32:t:45:VAL:HG12	32:t:46:ASN:N	2.32	0.45
1:U:350:LEU:HD12	1:U:385:PHE:CD1	2.52	0.45
1:U:459:ASP:HA	1:U:462:LEU:HB3	1.99	0.45
2:V:285:TRP:O	2:V:288:TYR:HB3	2.17	0.45
2:V:432:GLU:HG2	2:V:436:PHE:CE2	2.52	0.45
3:W:92:LYS:O	3:W:93:ARG:HB3	2.16	0.45
3:W:115:ILE:HG13	3:W:119:PRO:HB2	1.99	0.45
3:W:123:ARG:NH1	3:W:127:THR:HB	2.32	0.45
3:W:127:THR:O	3:W:130:MET:HB2	2.17	0.45
3:W:267:LEU:O	3:W:270:VAL:HG12	2.17	0.45
3:W:386:VAL:O	3:W:390:GLU:HG2	2.17	0.45
3:W:406:VAL:HA	3:W:413:ILE:HG22	1.98	0.45
4:X:327:TYR:O	4:X:330:LEU:N	2.50	0.45
5:Y:231:LEU:HD23	5:Y:236:LEU:HD12	1.99	0.45
6:Z:71:ASP:HB3	6:Z:74:TYR:HB3	1.98	0.45
7:a:53:GLY:O	7:a:57:ILE:HG22	2.17	0.45
7:a:82:HIS:HA	7:a:85:ARG:CB	2.47	0.45
7:a:207:GLY:O	7:a:271:LYS:NZ	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:b:32:ALA:O	8:b:35:ILE:HG13	2.17	0.45
10:d:36:LEU:CB	10:d:37:PRO:CD	2.91	0.45
11:f:16:SER:OG	11:f:34:ARG:HD2	2.16	0.45
11:f:215:ASP:HA	11:f:218:GLU:HG3	1.98	0.45
11:f:826:GLN:HE22	11:f:828:ARG:CD	2.28	0.45
12:A:45:ILE:HD11	13:B:61:LYS:C	2.42	0.45
12:A:415:LYS:O	12:A:419:SER:CB	2.64	0.45
13:B:70:ASP:O	13:B:74:MET:HG3	2.17	0.45
13:B:169:PRO:O	13:B:172:THR:OG1	2.27	0.45
13:B:204:PRO:HG3	13:B:211:TYR:OH	2.16	0.45
14:C:250:GLU:HG3	14:C:296:ASN:H	1.82	0.45
14:C:369:TYR:CE2	14:C:385:MET:HB2	2.52	0.45
15:D:153:MET:HB2	15:D:227:PHE:O	2.16	0.45
15:D:303:VAL:CG1	15:D:305:VAL:HG23	2.42	0.45
16:E:197:LYS:HZ3	16:E:199:VAL:HG12	1.82	0.45
17:F:88:TYR:HE1	17:F:161:LEU:HD12	1.81	0.45
17:F:252:ALA:HB3	17:F:255:GLN:CD	2.42	0.45
17:F:402:GLU:O	17:F:406:ILE:HG13	2.16	0.45
17:F:439:ALA:HB3	24:L:51:ARG:HH21	1.82	0.45
21:I:168:SER:O	21:I:171:ALA:HB3	2.17	0.45
22:J:140:GLY:O	22:J:142:PRO:HD3	2.17	0.45
23:K:228:MET:HE3	23:K:230:THR:CG2	2.44	0.45
24:L:137:TYR:HE1	24:L:142:PRO:HB3	1.82	0.45
25:M:76:ALA:HB3	25:M:136:MET:CB	2.41	0.45
26:N:30:VAL:HG22	26:N:175:ARG:HH21	1.82	0.45
26:N:119:MET:SD	32:T:6:VAL:HG21	2.57	0.45
30:R:5:ALA:CB	30:R:14:VAL:HG22	2.47	0.45
31:S:174:LEU:HD23	27:o:202:TYR:OH	2.17	0.45
32:T:96:MET:O	32:T:99:ARG:HB3	2.16	0.45
19:g:143:ILE:HD12	19:g:222:VAL:HG23	1.99	0.45
22:j:38:ARG:HH12	22:j:182:GLU:CA	2.30	0.45
23:k:41:GLN:OE1	23:k:153:LEU:HB3	2.17	0.45
24:l:71:GLY:HA3	24:l:221:PHE:CZ	2.52	0.45
30:r:114:VAL:HA	30:r:119:ASN:O	2.17	0.45
32:t:74:GLU:CD	32:t:82:SER:HA	2.42	0.45
1:U:53:GLY:O	1:U:55:ARG:HD3	2.17	0.45
1:U:396:ALA:CB	1:U:400:ALA:HB3	2.47	0.45
1:U:554:LEU:HA	1:U:588:MET:CE	2.46	0.45
1:U:713:TYR:CD1	1:U:730:ALA:HA	2.52	0.45
1:U:729:GLY:O	1:U:733:ALA:HB2	2.17	0.45
2:V:171:VAL:HG13	2:V:174:PHE:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:375:PHE:CZ	2:V:398:LEU:HD22	2.52	0.45
3:W:203:GLN:HA	3:W:233:LEU:HD21	1.98	0.45
4:X:142:ARG:HD3	4:X:145:GLU:OE2	2.17	0.45
4:X:171:LEU:CD2	4:X:209:THR:HG22	2.47	0.45
5:Y:192:ARG:HB3	5:Y:196:GLN:NE2	2.32	0.45
5:Y:246:ILE:HA	5:Y:249:VAL:CG2	2.47	0.45
5:Y:315:THR:HG23	5:Y:318:TYR:H	1.82	0.45
7:a:34:TRP:HB3	7:a:71:VAL:HG22	1.98	0.45
7:a:205:LEU:HG	7:a:268:LEU:HD11	1.98	0.45
7:a:247:ARG:HA	7:a:250:THR:CG2	2.47	0.45
8:b:35:ILE:CD1	8:b:180:ALA:HB3	2.45	0.45
8:b:51:LEU:HG	8:b:62:THR:OG1	2.17	0.45
9:c:89:PRO:O	9:c:92:GLN:HB2	2.17	0.45
10:d:190:LEU:HD22	10:d:192:THR:HG22	1.97	0.45
11:f:192:VAL:HG13	11:f:230:CYS:SG	2.57	0.45
11:f:371:ASN:O	11:f:374:SER:HB2	2.17	0.45
11:f:446:LEU:HD21	11:f:483:PHE:CD2	2.51	0.45
11:f:667:GLY:HA2	11:f:671:ALA:CB	2.46	0.45
11:f:830:LEU:N	11:f:859:PRO:O	2.50	0.45
12:A:49:GLU:O	12:A:53:GLN:HG3	2.16	0.45
12:A:393:GLY:C	12:A:397:ILE:HD12	2.42	0.45
13:B:51:LEU:HD21	13:B:53:THR:HG22	1.99	0.45
14:C:339:THR:HG22	14:C:340:ARG:O	2.16	0.45
14:C:351:MET:HE1	14:C:362:VAL:CG2	2.47	0.45
16:E:60:VAL:HB	16:E:96:THR:HG22	1.97	0.45
17:F:199:VAL:HA	17:F:203:VAL:HG23	1.99	0.45
21:I:91:ARG:HD3	28:P:76:LEU:HB3	1.98	0.45
21:I:119:GLN:HG2	21:I:123:GLN:HE21	1.82	0.45
22:J:200:GLN:HE22	22:J:205:ASN:HD22	0.60	0.45
23:K:46:VAL:CG2	23:K:151:PRO:HB2	2.43	0.45
27:O:163:ILE:HG23	27:O:170:GLY:CA	2.32	0.45
29:Q:14:LEU:HD12	29:Q:181:ARG:O	2.17	0.45
31:S:191:ASP:HA	31:S:210:LEU:HB2	1.99	0.45
19:g:29:PHE:CE1	19:g:156:PRO:HG2	2.52	0.45
19:g:120:ASP:OD1	20:h:84:ARG:NH1	2.49	0.45
23:k:91:LYS:HZ1	23:k:116:VAL:HA	1.82	0.45
23:k:119:LEU:HA	23:k:122:GLN:HG3	1.99	0.45
24:l:189:LYS:HA	24:l:192:LEU:HD21	1.99	0.45
25:m:172:ALA:O	25:m:176:ILE:HG13	2.17	0.45
27:o:52:THR:O	27:o:56:THR:HG22	2.17	0.45
28:p:4:MET:HE2	28:p:104:TYR:HD1	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:p:26:ARG:HB2	28:p:183:MET:O	2.17	0.45
30:r:148:GLU:HB2	30:r:151:GLN:HG3	1.99	0.45
31:s:7:PHE:CZ	31:s:9:GLY:HA2	2.52	0.45
1:U:38:ILE:HB	1:U:67:VAL:CG2	2.47	0.44
1:U:233:LEU:HG	1:U:324:LYS:CE	2.47	0.44
1:U:583:MET:HE3	1:U:618:ALA:C	2.41	0.44
1:U:645:ASN:HD22	1:U:646:PRO:CD	2.30	0.44
1:U:766:PHE:CD1	1:U:776:SER:HB3	2.52	0.44
2:V:201:ARG:O	2:V:205:LEU:HD13	2.17	0.44
3:W:179:LYS:HA	3:W:212:LYS:NZ	2.32	0.44
3:W:410:ALA:O	3:W:412:ILE:HD12	2.16	0.44
3:W:427:ASP:O	3:W:430:GLN:HB3	2.16	0.44
4:X:93:LEU:CD2	4:X:129:LEU:HD22	2.47	0.44
4:X:201:TYR:HE2	15:D:338:ARG:HE	1.64	0.44
5:Y:81:LEU:CD2	5:Y:107:LYS:HB3	2.47	0.44
5:Y:184:GLN:HB3	5:Y:219:PHE:HZ	1.83	0.44
5:Y:224:VAL:HG23	5:Y:260:LEU:HD11	2.00	0.44
6:Z:8:LYS:HZ1	6:Z:47:VAL:HG21	1.82	0.44
6:Z:140:SER:HB2	6:Z:155:PHE:CE1	2.52	0.44
7:a:60:TYR:CE2	7:a:64:ILE:HD11	2.51	0.44
7:a:290:GLN:HG3	7:a:332:HIS:CA	2.46	0.44
11:f:267:ARG:HH21	11:f:271:MET:HE3	1.82	0.44
11:f:482:ILE:HG21	11:f:504:VAL:HG21	1.98	0.44
11:f:665:GLU:CG	11:f:669:GLU:HG3	2.44	0.44
11:f:689:ALA:O	11:f:692:LEU:HB2	2.17	0.44
11:f:810:ILE:HD12	11:f:854:GLY:H	1.81	0.44
13:B:77:GLU:O	13:B:80:ARG:HB3	2.18	0.44
13:B:230:THR:HG21	13:B:353:PHE:CB	2.36	0.44
13:B:369:THR:HG22	13:B:372:MET:SD	2.58	0.44
14:C:79:ALA:HB1	14:C:84:LYS:O	2.17	0.44
14:C:342:ILE:HD12	14:C:380:GLN:CA	2.46	0.44
15:D:46:LYS:O	15:D:50:GLU:HG3	2.16	0.44
16:E:341:ALA:HB2	37:E:401:ADP:C1'	2.47	0.44
16:E:341:ALA:HB2	37:E:401:ADP:O4'	2.17	0.44
17:F:383:GLU:HG2	24:L:170:THR:HG21	1.98	0.44
20:H:14:SER:OG	20:H:17:GLY:N	2.51	0.44
25:M:179:LEU:CD1	25:M:192:GLU:CD	2.83	0.44
27:O:34:ILE:HD12	27:O:174:ASP:HB3	1.98	0.44
30:R:26:ILE:HG21	30:R:29:GLN:HE21	1.81	0.44
30:R:50:ALA:HB2	31:S:129:SER:HB2	1.98	0.44
31:S:11:THR:HG23	31:S:138:GLY:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:g:43:ARG:HB3	19:g:164:LYS:O	2.17	0.44
19:g:219:VAL:HG12	19:g:228:ARG:O	2.17	0.44
19:g:228:ARG:HH22	19:g:234:GLU:CD	2.25	0.44
21:i:174:MET:CE	21:i:199:LYS:HD3	2.47	0.44
21:i:180:LYS:HB2	21:i:183:GLU:OE1	2.17	0.44
22:j:4:ASP:HB3	23:k:125:GLU:HB3	1.99	0.44
22:j:48:LYS:CB	22:j:205:ASN:HA	2.47	0.44
23:k:20:ARG:HG3	23:k:21:LEU:N	2.32	0.44
23:k:199:LEU:CD1	23:k:241:ILE:HG12	2.47	0.44
29:q:108:ASP:OD1	29:q:109:GLU:N	2.50	0.44
30:r:5:ALA:CB	30:r:14:VAL:HG22	2.47	0.44
1:U:349:ASP:OD1	1:U:351:MET:HG2	2.18	0.44
2:V:128:ARG:CD	2:V:162:GLU:HG2	2.47	0.44
2:V:423:ALA:C	2:V:428:LEU:HB2	2.43	0.44
2:V:465:ASP:CB	2:V:468:SER:HB3	2.47	0.44
3:W:173:THR:HA	3:W:177:MET:HG3	1.99	0.44
3:W:213:PHE:HA	3:W:223:LYS:HE3	2.00	0.44
3:W:252:ASP:O	3:W:256:ILE:HD12	2.17	0.44
3:W:412:ILE:HD12	3:W:412:ILE:H	1.82	0.44
4:X:252:LYS:HD2	4:X:283:GLN:OE1	2.17	0.44
4:X:365:LEU:O	4:X:368:MET:HB2	2.17	0.44
4:X:379:ASP:CB	4:X:382:GLU:HB2	2.47	0.44
4:X:402:GLU:CB	9:c:249:LEU:HD11	2.47	0.44
5:Y:84:LEU:O	5:Y:84:LEU:HD13	2.16	0.44
6:Z:194:GLN:O	6:Z:198:LEU:HD23	2.17	0.44
7:a:193:GLN:C	7:a:225:LEU:HD13	2.42	0.44
9:c:46:ARG:NH2	16:E:67:GLU:OE1	2.50	0.44
10:d:99:LEU:C	10:d:133:ILE:HD11	2.42	0.44
10:d:155:LYS:HE2	10:d:167:ILE:HB	1.98	0.44
11:f:184:LEU:CG	13:B:58:CYS:HA	2.39	0.44
11:f:378:ASN:OD1	11:f:382:ASN:ND2	2.50	0.44
11:f:585:GLU:O	11:f:589:SER:HB2	2.18	0.44
11:f:606:VAL:CG1	13:B:70:ASP:HB2	2.45	0.44
12:A:172:VAL:O	12:A:228:ALA:HA	2.17	0.44
12:A:303:ILE:HG23	12:A:336:ARG:CZ	2.47	0.44
13:B:267:VAL:O	13:B:270:LEU:HB3	2.17	0.44
14:C:168:PRO:HB2	14:C:290:LYS:HZ3	1.82	0.44
14:C:212:ILE:CB	14:C:246:ILE:HG12	2.42	0.44
15:D:40:LEU:HD22	15:D:43:ARG:HD2	1.99	0.44
16:E:148:VAL:HG11	16:E:170:CYS:SG	2.57	0.44
16:E:243:PHE:HE1	17:F:299:GLU:HA	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:I:180:LYS:HB2	21:I:183:GLU:OE1	2.17	0.44
23:K:36:THR:O	23:K:50:VAL:HG23	2.16	0.44
23:K:41:GLN:OE1	23:K:153:LEU:HB3	2.17	0.44
23:K:199:LEU:CD1	23:K:241:ILE:HG12	2.47	0.44
24:L:104:PRO:HG2	24:L:107:ARG:HH12	1.81	0.44
26:N:190:LEU:HD12	26:N:190:LEU:O	2.18	0.44
29:Q:12:TYR:HA	29:Q:183:ILE:O	2.16	0.44
29:Q:183:ILE:HA	29:Q:187:GLY:O	2.18	0.44
19:g:115:CYS:SG	19:g:140:LEU:HD22	2.57	0.44
21:i:95:GLN:HG3	28:p:69:PHE:CE1	2.53	0.44
25:m:141:SER:CB	25:m:144:ASP:HB2	2.42	0.44
27:o:179:SER:HG	27:o:182:LYS:H	1.56	0.44
28:p:4:MET:HE1	28:p:104:TYR:CA	2.47	0.44
28:p:57:ALA:O	28:p:60:VAL:HB	2.18	0.44
29:q:14:LEU:HD12	29:q:181:ARG:O	2.17	0.44
29:q:164:LEU:HA	29:q:167:LEU:CG	2.47	0.44
30:r:144:SER:H	30:r:147:LEU:HD11	1.82	0.44
1:U:17:PRO:HB2	1:U:55:ARG:HH22	1.82	0.44
1:U:39:SER:O	1:U:42:VAL:HG23	2.18	0.44
1:U:161:ASP:OD1	1:U:162:VAL:N	2.51	0.44
1:U:520:MET:HE3	1:U:523:SER:CB	2.48	0.44
1:U:570:LEU:CD1	1:U:582:GLY:HA2	2.47	0.44
1:U:669:ILE:HG21	1:U:705:LYS:HG3	1.98	0.44
2:V:159:LEU:HD22	2:V:163:VAL:HG23	1.99	0.44
2:V:368:ARG:NH2	18:e:46:ASP:OD1	2.50	0.44
2:V:426:LEU:HB2	2:V:428:LEU:HD23	1.99	0.44
3:W:221:LYS:O	3:W:225:LYS:HD3	2.17	0.44
3:W:373:ILE:HG13	7:a:326:GLU:CD	2.42	0.44
4:X:330:LEU:O	4:X:334:ASN:ND2	2.51	0.44
4:X:402:GLU:O	4:X:405:GLN:HB2	2.18	0.44
6:Z:91:ILE:HD12	6:Z:91:ILE:O	2.16	0.44
6:Z:125:ASP:OD2	6:Z:128:PRO:HA	2.17	0.44
7:a:5:PRO:O	7:a:9:GLN:HG2	2.16	0.44
7:a:309:LEU:HA	7:a:312:MET:HE3	1.99	0.44
8:b:33:VAL:HA	8:b:36:VAL:CG2	2.44	0.44
10:d:168:ASP:HA	10:d:171:LEU:CG	2.48	0.44
10:d:236:THR:O	10:d:239:SER:OG	2.18	0.44
11:f:180:GLN:CG	11:f:219:LYS:HB2	2.45	0.44
11:f:397:LYS:HE2	11:f:397:LYS:HA	1.99	0.44
11:f:414:LEU:O	11:f:417:ILE:HB	2.17	0.44
11:f:699:VAL:HG12	11:f:703:ARG:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:A:413:VAL:CA	12:A:416:VAL:HG22	2.43	0.44
15:D:173:GLN:O	15:D:177:VAL:HG23	2.18	0.44
15:D:258:ALA:HB1	15:D:259:PRO:HD2	2.00	0.44
16:E:139:SER:CA	16:E:142:ILE:HD12	2.44	0.44
16:E:286:ASP:O	16:E:290:LEU:HG	2.17	0.44
17:F:372:LYS:HG2	33:v:190:TYR:O	2.18	0.44
19:G:11:ARG:HB3	25:M:7:TYR:CE1	2.52	0.44
19:G:11:ARG:HB3	25:M:7:TYR:HE1	1.82	0.44
19:G:32:ILE:HG23	19:G:82:GLY:CA	2.47	0.44
20:H:37:GLY:HA3	20:H:46:LEU:HD23	2.00	0.44
20:H:194:THR:HA	20:H:197:GLU:HB2	1.99	0.44
22:J:48:LYS:CB	22:J:205:ASN:HA	2.47	0.44
23:K:48:LEU:HD22	23:K:67:ILE:HG13	1.98	0.44
23:K:178:GLN:O	23:K:182:GLN:HG3	2.17	0.44
23:K:221:GLN:CB	23:K:224:GLN:HB3	2.40	0.44
25:M:216:VAL:HA	25:M:220:THR:HG21	1.99	0.44
27:O:24:MET:HE2	31:s:188:TYR:OH	2.16	0.44
28:P:94:LEU:O	28:P:97:GLU:HB2	2.18	0.44
28:P:94:LEU:HG	28:P:97:GLU:OE1	2.17	0.44
30:R:144:SER:H	30:R:147:LEU:HD11	1.83	0.44
19:g:93:ARG:HH21	19:g:121:ILE:CD1	2.31	0.44
20:h:42:ASN:HD21	20:h:184:LEU:N	2.15	0.44
22:j:26:VAL:HG13	22:j:74:ALA:HB3	2.00	0.44
23:k:178:GLN:O	23:k:182:GLN:HG3	2.16	0.44
24:l:104:PRO:HG2	24:l:107:ARG:HH12	1.81	0.44
24:l:130:VAL:CG2	24:l:132:LEU:HG	2.48	0.44
26:n:40:ARG:HH12	26:n:183:GLY:CA	2.29	0.44
32:t:187:PHE:CE2	32:t:203:LEU:HB2	2.53	0.44
32:t:208:ASN:OD1	32:t:209:TRP:N	2.50	0.44
1:U:116:ALA:HB2	1:U:158:ARG:HB3	1.98	0.44
1:U:188:MET:CG	1:U:194:ARG:HB2	2.40	0.44
1:U:338:HIS:CE1	1:U:785:PRO:HB3	2.53	0.44
1:U:374:SER:HB2	1:U:410:VAL:HB	2.00	0.44
1:U:493:VAL:HG11	1:U:519:VAL:HG11	1.99	0.44
1:U:576:PRO:O	1:U:611:ASN:ND2	2.51	0.44
1:U:583:MET:HE3	1:U:618:ALA:O	2.18	0.44
1:U:583:MET:HG3	1:U:618:ALA:CA	2.47	0.44
1:U:888:GLN:HA	1:U:891:VAL:HG22	2.00	0.44
2:V:94:VAL:HG13	2:V:137:GLU:HB2	2.00	0.44
2:V:182:LYS:O	2:V:185:GLN:HB2	2.16	0.44
2:V:186:LYS:HZ2	2:V:234:ARG:HH11	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:145:LEU:HD11	3:W:172:GLU:CG	2.47	0.44
3:W:155:GLN:HE21	3:W:161:GLU:HB3	1.83	0.44
3:W:450:GLU:OE2	6:Z:225:GLN:HG2	2.18	0.44
7:a:362:SER:O	7:a:365:MET:HB2	2.18	0.44
8:b:16:MET:HE2	8:b:29:GLN:OE1	2.17	0.44
8:b:141:ILE:CA	8:b:171:VAL:HG23	2.45	0.44
10:d:158:ILE:HG23	10:d:163:TYR:CD2	2.52	0.44
11:f:180:GLN:HB3	11:f:219:LYS:NZ	2.33	0.44
11:f:187:LEU:HD22	11:f:223:GLU:OE1	2.17	0.44
11:f:433:LEU:CD1	11:f:441:LYS:HG2	2.45	0.44
11:f:605:ASN:N	13:B:67:ARG:HH12	2.15	0.44
11:f:611:GLN:O	11:f:615:ILE:HD13	2.18	0.44
11:f:684:PRO:O	11:f:688:ARG:HD3	2.17	0.44
11:f:764:LEU:HB3	11:f:771:LEU:CD1	2.44	0.44
11:f:833:PHE:CD1	11:f:842:VAL:HA	2.52	0.44
12:A:41:TYR:OH	13:B:62:LEU:HB2	2.17	0.44
12:A:55:LEU:O	12:A:59:ILE:HG13	2.17	0.44
12:A:103:ASN:HA	12:A:136:GLU:CD	2.42	0.44
12:A:276:GLU:CB	13:B:310:LEU:HD11	2.48	0.44
13:B:188:GLY:O	13:B:360:THR:HB	2.18	0.44
13:B:390:LEU:HD12	13:B:390:LEU:O	2.17	0.44
14:C:104:ASP:HB2	14:C:107:ASP:CG	2.42	0.44
14:C:169:VAL:HG22	14:C:288:ASN:HA	2.00	0.44
14:C:196:LYS:HD3	14:C:294:ALA:CB	2.40	0.44
14:C:258:ARG:HA	14:C:258:ARG:NE	2.32	0.44
14:C:306:LEU:HB3	14:C:311:ILE:CG1	2.48	0.44
15:D:200:ARG:NH2	15:D:301:GLN:HA	2.32	0.44
19:G:127:GLN:HA	20:H:128:ARG:HH22	1.83	0.44
19:G:238:HIS:O	19:G:241:ALA:HB3	2.18	0.44
20:H:9:SER:OG	21:I:127:LYS:HD3	2.18	0.44
22:J:105:GLU:O	22:J:108:THR:OG1	2.33	0.44
24:L:130:VAL:HG22	24:L:132:LEU:HG	2.00	0.44
25:M:192:GLU:CD	25:M:192:GLU:C	2.86	0.44
25:M:215:TRP:HB2	25:M:227:VAL:CG1	2.45	0.44
29:Q:108:ASP:OD1	29:Q:109:GLU:N	2.50	0.44
31:S:170:ARG:HA	31:S:173:ARG:HH11	1.83	0.44
32:T:74:GLU:CD	32:T:82:SER:HA	2.42	0.44
32:T:187:PHE:CE2	32:T:203:LEU:HB2	2.53	0.44
19:g:13:ILE:HG13	19:g:15:ILE:HG23	1.99	0.44
19:g:97:GLU:OE1	19:g:117:ARG:HB3	2.17	0.44
20:h:37:GLY:HA3	20:h:46:LEU:HD23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:h:68:ILE:HD13	20:h:91:ARG:HE	1.82	0.44
20:h:194:THR:HA	20:h:197:GLU:HB2	1.99	0.44
21:i:119:GLN:HG2	21:i:123:GLN:HE21	1.82	0.44
22:j:12:PRO:HA	23:k:26:TYR:CE1	2.52	0.44
23:k:221:GLN:HB2	23:k:224:GLN:CB	2.38	0.44
24:l:41:LYS:NZ	24:l:181:GLU:HA	2.32	0.44
25:m:33:SER:O	25:m:167:LYS:HG3	2.18	0.44
25:m:100:SER:HA	32:t:65:GLN:NE2	2.32	0.44
25:m:234:GLU:O	25:m:238:TYR:HB3	2.17	0.44
26:n:95:MET:CB	26:n:116:MET:HE3	2.48	0.44
28:p:62:THR:N	29:q:85:ARG:HH22	2.14	0.44
32:t:58:ALA:O	32:t:61:GLN:HB2	2.18	0.44
1:U:164:GLU:CD	1:U:167:ILE:HD11	2.42	0.44
1:U:592:GLY:N	1:U:624:PHE:O	2.29	0.44
1:U:649:ARG:O	1:U:652:ALA:HB3	2.18	0.44
2:V:159:LEU:O	2:V:163:VAL:N	2.45	0.44
2:V:234:ARG:O	2:V:237:THR:HG22	2.17	0.44
2:V:313:LEU:CD2	2:V:332:LEU:HD13	2.46	0.44
2:V:465:ASP:OD1	2:V:468:SER:HB3	2.16	0.44
3:W:33:LYS:O	3:W:36:LYS:HB2	2.17	0.44
3:W:56:THR:HB	3:W:107:GLN:NE2	2.33	0.44
3:W:366:MET:HB3	3:W:415:PHE:HE2	1.82	0.44
3:W:432:LEU:HD11	9:c:309:PHE:CD2	2.52	0.44
5:Y:13:LYS:CA	5:Y:16:ASP:HB2	2.39	0.44
5:Y:42:MET:HA	5:Y:46:ARG:CZ	2.48	0.44
5:Y:70:LEU:HD23	5:Y:73:MET:SD	2.57	0.44
5:Y:123:ALA:O	5:Y:127:THR:HG22	2.18	0.44
7:a:131:THR:O	7:a:135:ILE:HB	2.17	0.44
8:b:12:ASN:HA	8:b:80:PRO:HA	1.99	0.44
9:c:303:MET:HE1	10:d:242:LEU:HB2	1.98	0.44
10:d:95:MET:HG2	10:d:99:LEU:HD13	2.00	0.44
10:d:106:LEU:HD11	10:d:114:GLU:CB	2.36	0.44
11:f:24:THR:HA	11:f:31:LYS:CB	2.48	0.44
11:f:94:LYS:HE2	11:f:110:TYR:HB3	1.99	0.44
11:f:382:ASN:CB	11:f:417:ILE:HA	2.47	0.44
11:f:482:ILE:O	11:f:521:ALA:HB1	2.18	0.44
11:f:655:LEU:CD2	11:f:659:LEU:HD12	2.48	0.44
11:f:703:ARG:HG2	11:f:704:LEU:HD22	2.00	0.44
11:f:705:ASN:OD1	11:f:706:ILE:N	2.49	0.44
11:f:723:TYR:O	11:f:727:PHE:CB	2.65	0.44
11:f:868:HIS:CG	11:f:868:HIS:O	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:A:277:ILE:HD12	12:A:327:LEU:HD11	1.99	0.44
12:A:312:ARG:HH12	12:A:317:VAL:CG2	2.25	0.44
13:B:106:PRO:O	13:B:108:SER:N	2.50	0.44
13:B:223:ILE:HG21	13:B:334:ILE:HD11	1.98	0.44
14:C:142:LYS:O	14:C:144:PRO:HD3	2.17	0.44
14:C:250:GLU:HG2	14:C:296:ASN:OD1	2.17	0.44
16:E:317:ALA:HA	16:E:320:ILE:CD1	2.39	0.44
37:E:401:ADP:O2B	17:F:347:ARG:NH2	2.49	0.44
17:F:93:VAL:HB	17:F:149:ASP:H	1.83	0.44
17:F:182:THR:HA	17:F:242:ALA:HB1	2.00	0.44
17:F:339:ASP:HB3	17:F:340:PRO:HD2	1.99	0.44
19:G:13:ILE:HG13	19:G:15:ILE:HG23	1.99	0.44
19:G:22:LEU:HD11	19:G:25:VAL:HB	1.97	0.44
19:G:105:TYR:HD1	27:O:78:THR:HG23	1.82	0.44
19:G:138:MET:HG3	19:G:140:LEU:CD1	2.47	0.44
20:H:8:PHE:CD2	21:I:6:ASP:HA	2.52	0.44
23:K:91:LYS:HZ3	23:K:116:VAL:HA	1.80	0.44
23:K:157:ASP:OD2	23:K:161:THR:HB	2.18	0.44
24:L:46:LEU:HD12	24:L:46:LEU:O	2.17	0.44
25:M:213:LEU:HB2	25:M:227:VAL:HG21	1.99	0.44
26:N:103:TRP:CH2	26:N:181:GLU:HG3	2.52	0.44
28:P:15:LYS:HG3	28:P:119:PRO:HB2	1.99	0.44
29:Q:177:THR:HA	29:Q:195:SER:HA	1.98	0.44
30:R:74:ILE:HG12	30:R:78:ALA:HB3	2.00	0.44
19:g:32:ILE:HG23	19:g:82:GLY:CA	2.47	0.44
19:g:102:LYS:HD2	19:g:107:TYR:O	2.17	0.44
21:i:72:MET:SD	21:i:107:CYS:HA	2.57	0.44
23:k:157:ASP:OD2	23:k:159:SER:OG	2.36	0.44
28:p:15:LYS:HG3	28:p:119:PRO:HB2	2.00	0.44
28:p:94:LEU:O	28:p:97:GLU:HB2	2.18	0.44
28:p:94:LEU:HG	28:p:97:GLU:OE1	2.17	0.44
32:t:56:ASP:OD2	32:t:58:ALA:HB3	2.18	0.44
1:U:57:ARG:O	1:U:58:GLN:HB2	2.18	0.44
1:U:474:ARG:O	1:U:478:SER:OG	2.36	0.44
1:U:650:TYR:HE1	1:U:686:GLY:HA3	1.82	0.44
2:V:255:LEU:HG	2:V:269:LYS:HD3	1.99	0.44
2:V:257:ASN:HA	2:V:260:HIS:CB	2.48	0.44
3:W:263:TRP:O	3:W:266:ALA:HB3	2.18	0.44
3:W:308:LEU:O	3:W:308:LEU:HD23	2.18	0.44
4:X:410:VAL:HG11	9:c:255:TYR:HD2	1.83	0.44
6:Z:26:ILE:HD13	6:Z:33:LYS:CG	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:45:LYS:HB3	6:Z:47:VAL:CG1	2.47	0.44
7:a:70:ARG:CD	8:b:17:ARG:HB3	2.48	0.44
7:a:325:ASP:OD1	7:a:326:GLU:N	2.50	0.44
7:a:369:HIS:HA	7:a:372:HIS:NE2	2.33	0.44
9:c:95:MET:O	9:c:99:LEU:HG	2.18	0.44
11:f:13:PRO:HA	11:f:17:PRO:CD	2.47	0.44
11:f:169:GLU:HA	11:f:172:GLU:HB3	1.99	0.44
11:f:403:LYS:HG3	11:f:406:GLY:HA3	1.99	0.44
11:f:498:LEU:HB2	11:f:525:ILE:HG21	2.00	0.44
11:f:527:VAL:HG13	11:f:565:ASN:N	2.31	0.44
11:f:559:PRO:C	11:f:562:LEU:H	2.26	0.44
11:f:697:ILE:HG23	11:f:706:ILE:HB	2.00	0.44
11:f:868:HIS:O	11:f:868:HIS:CD2	2.70	0.44
12:A:41:TYR:HB2	12:A:44:GLN:CB	2.31	0.44
12:A:218:PRO:HB2	13:B:343:ARG:HD3	2.00	0.44
12:A:222:LYS:HG3	12:A:343:PHE:HD2	1.83	0.44
12:A:393:GLY:HA3	13:B:216:ILE:CD1	2.47	0.44
13:B:373:THR:HG21	14:C:177:ALA:HB1	2.00	0.44
13:B:381:ASP:O	13:B:385:MET:HB3	2.18	0.44
14:C:45:LEU:HD12	15:D:61:ILE:CG2	2.48	0.44
14:C:46:GLN:HE22	15:D:61:ILE:HD11	1.82	0.44
14:C:90:HIS:CB	14:C:91:PRO:HD3	2.40	0.44
15:D:234:GLU:O	15:D:237:GLN:NE2	2.50	0.44
15:D:345:PHE:HE2	15:D:364:VAL:HG22	1.81	0.44
16:E:84:ARG:HD2	16:E:108:MET:SD	2.58	0.44
16:E:145:LEU:O	16:E:148:VAL:HG12	2.18	0.44
21:I:161:ALA:HB1	21:I:175:LEU:HD13	2.00	0.44
29:Q:62:LYS:O	29:Q:66:LEU:HD23	2.17	0.44
30:R:114:VAL:HA	30:R:119:ASN:O	2.17	0.44
30:R:125:THR:HB	30:R:139:MET:HE3	2.00	0.44
30:R:139:MET:O	30:R:143:TYR:HB2	2.18	0.44
31:S:55:SER:O	31:S:106:VAL:HA	2.17	0.44
21:i:161:ALA:HB1	21:i:175:LEU:HD13	2.00	0.44
23:k:70:ILE:HD11	23:k:89:ILE:HG23	1.99	0.44
24:l:46:LEU:HD12	24:l:46:LEU:O	2.17	0.44
24:l:72:ILE:CG2	24:l:134:ILE:HG12	2.48	0.44
31:s:155:PHE:HD1	31:s:158:MET:HE1	1.83	0.44
33:v:153:ARG:HG3	33:v:160:LYS:N	2.32	0.44
1:U:108:TYR:CE2	1:U:134:VAL:HG11	2.53	0.44
1:U:149:GLN:HE22	14:C:24:TYR:CB	2.30	0.44
1:U:225:ASP:OD2	1:U:228:ALA:HB3	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:804:SER:HB3	1:U:876:GLN:OE1	2.17	0.44
2:V:80:LYS:HZ1	2:V:127:THR:HG22	1.83	0.44
2:V:194:LYS:HD3	2:V:194:LYS:H	1.82	0.44
2:V:216:ARG:HH22	18:e:3:GLU:HA	1.83	0.44
2:V:269:LYS:O	2:V:272:SER:HB2	2.18	0.44
2:V:471:GLU:O	2:V:474:LEU:HB2	2.17	0.44
3:W:20:TYR:HB3	3:W:23:THR:CG2	2.47	0.44
3:W:275:ILE:HD11	3:W:305:LEU:CD2	2.43	0.44
4:X:330:LEU:HA	4:X:333:GLN:HB2	1.99	0.44
5:Y:188:CYS:HB3	5:Y:201:PHE:HZ	1.83	0.44
6:Z:39:LEU:HD22	6:Z:122:VAL:HG21	1.99	0.44
7:a:247:ARG:HA	7:a:250:THR:HG22	1.99	0.44
9:c:57:MET:HB3	9:c:111:TRP:N	2.32	0.44
11:f:142:TYR:CD1	11:f:159:VAL:HG11	2.53	0.44
11:f:180:GLN:HE22	11:f:835:GLU:HB3	1.83	0.44
11:f:754:LYS:HB3	33:v:213:ILE:HD12	1.92	0.44
12:A:69:ASP:OD2	12:A:72:LEU:HB2	2.18	0.44
12:A:108:ASP:HB3	12:A:109:PRO:HD2	1.99	0.44
13:B:107:MET:HE1	13:B:160:ILE:CG2	2.48	0.44
14:C:86:LEU:CD1	14:C:94:LYS:HD2	2.42	0.44
14:C:204:ALA:CB	14:C:245:ILE:HB	2.48	0.44
14:C:287:LYS:NZ	14:C:287:LYS:HB2	2.33	0.44
15:D:337:ASP:O	15:D:341:LYS:HG3	2.18	0.44
16:E:341:ALA:HB2	37:E:401:ADP:H1'	2.00	0.44
17:F:221:LYS:O	17:F:349:ASP:HB2	2.18	0.44
20:H:68:ILE:HD13	20:H:91:ARG:HE	1.82	0.44
23:K:16:SER:HA	23:K:22:PHE:HE1	1.82	0.44
26:N:88:TYR:OH	32:T:59:ASP:OD1	2.31	0.44
27:O:24:MET:HE2	31:s:188:TYR:CZ	2.53	0.44
29:Q:35:MET:HG2	29:Q:45:LEU:CD2	2.47	0.44
31:S:155:PHE:HD1	31:S:158:MET:HE1	1.83	0.44
31:S:174:LEU:O	31:S:178:VAL:HG13	2.17	0.44
20:h:150:ASP:OD2	20:h:154:ALA:HB3	2.17	0.44
22:j:95:ARG:HH22	22:j:101:PRO:HB3	1.83	0.44
23:k:60:GLU:OE2	23:k:62:SER:OG	2.23	0.44
24:l:64:LEU:CD1	24:l:72:ILE:HD11	2.46	0.44
25:m:70:ASP:OD2	25:m:72:HIS:ND1	2.51	0.44
25:m:115:VAL:O	25:m:119:VAL:HG23	2.18	0.44
27:o:18:THR:OG1	27:o:171:SER:HB3	2.18	0.44
31:s:124:PHE:CD1	31:s:130:TYR:HB3	2.53	0.44
33:v:208:GLU:OE1	33:v:208:GLU:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:622:LEU:HA	1:U:625:ILE:HG12	2.00	0.44
2:V:37:MET:SD	2:V:92:ARG:NH1	2.91	0.44
2:V:80:LYS:CE	2:V:127:THR:HA	2.48	0.44
2:V:107:ARG:HA	2:V:110:HIS:ND1	2.33	0.44
2:V:221:LEU:HD12	2:V:222:ASP:O	2.18	0.44
2:V:415:SER:HB2	5:Y:346:LYS:HE3	2.00	0.44
2:V:419:LEU:CD2	2:V:451:ILE:HG23	2.48	0.44
3:W:307:LYS:NZ	3:W:315:MET:HA	2.33	0.44
4:X:406:ASN:ND2	9:c:253:LYS:HD2	2.20	0.44
6:Z:60:GLU:HA	6:Z:67:VAL:O	2.17	0.44
6:Z:116:CYS:SG	6:Z:117:PRO:HD2	2.57	0.44
7:a:81:LEU:HD11	7:a:82:HIS:CE1	2.53	0.44
7:a:313:LYS:O	7:a:317:VAL:HG23	2.18	0.44
9:c:42:LEU:HD12	9:c:43:LYS:N	2.33	0.44
9:c:119:GLY:O	9:c:191:ALA:HB2	2.18	0.44
10:d:51:ALA:O	10:d:55:LEU:HG	2.18	0.44
11:f:228:LYS:CB	11:f:231:LEU:HD13	2.27	0.44
11:f:376:PHE:HZ	11:f:800:LEU:HG	1.81	0.44
11:f:521:ALA:O	11:f:524:MET:HB2	2.18	0.44
11:f:580:LEU:O	11:f:583:VAL:HG22	2.16	0.44
11:f:586:PRO:HA	11:f:589:SER:HB2	2.00	0.44
11:f:665:GLU:O	11:f:669:GLU:HB2	2.18	0.44
11:f:826:GLN:O	11:f:862:ILE:HG23	2.18	0.44
12:A:395:PHE:O	12:A:398:ARG:HG2	2.18	0.44
14:C:217:SER:HA	14:C:251:ILE:CG2	2.48	0.44
14:C:326:LEU:O	14:C:329:LEU:HB3	2.18	0.44
16:E:109:ARG:HH11	17:F:133:PHE:HE2	1.66	0.44
16:E:139:SER:HA	16:E:142:ILE:HB	2.00	0.44
16:E:332:VAL:HA	16:E:335:SER:CB	2.47	0.44
17:F:183:GLU:OE2	17:F:235:LEU:HA	2.18	0.44
17:F:225:MET:CB	17:F:233:LYS:HZ2	2.27	0.44
17:F:300:LYS:HG2	17:F:301:ALA:N	2.33	0.44
17:F:397:LYS:O	17:F:401:VAL:HG23	2.17	0.44
19:G:97:GLU:OE1	19:G:117:ARG:HB3	2.17	0.44
20:H:35:SER:HB2	20:H:48:THR:HA	2.00	0.44
20:H:157:ALA:HB1	21:I:57:ASP:HB2	1.99	0.44
23:K:46:VAL:HB	23:K:220:VAL:CG1	2.48	0.44
23:K:70:ILE:HD11	23:K:89:ILE:HG23	1.99	0.44
23:K:221:GLN:HB2	23:K:224:GLN:CB	2.38	0.44
24:L:182:CYS:SG	24:L:187:LEU:HD13	2.58	0.44
25:M:149:TYR:HD1	25:M:159:GLY:HA2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:M:243:LEU:HD12	25:M:244:LYS:N	2.33	0.44
26:N:29:ARG:HB3	32:t:209:TRP:CZ3	2.53	0.44
26:N:113:SER:HB2	26:N:121:VAL:CG1	2.48	0.44
28:P:189:ILE:HG23	28:P:196:THR:HB	1.99	0.44
31:S:125:ASP:OD1	31:S:129:SER:N	2.50	0.44
32:T:56:ASP:OD2	32:T:58:ALA:HB3	2.18	0.44
32:T:58:ALA:O	32:T:61:GLN:HB2	2.18	0.44
32:T:184:TYR:CE2	32:T:186:ARG:HB3	2.53	0.44
21:i:168:SER:OG	21:i:171:ALA:HB3	2.18	0.44
24:l:130:VAL:HG22	24:l:132:LEU:HG	2.00	0.44
24:l:182:CYS:SG	24:l:187:LEU:HD13	2.58	0.44
25:m:243:LEU:HD12	25:m:244:LYS:N	2.32	0.44
1:U:396:ALA:HB3	1:U:400:ALA:HB3	2.00	0.44
1:U:654:MET:CE	1:U:767:THR:HG22	2.47	0.44
1:U:802:TYR:OH	1:U:878:LEU:HD12	2.18	0.44
3:W:118:LEU:HA	3:W:121:LYS:NZ	2.32	0.44
3:W:280:ASP:OD1	3:W:281:ASN:N	2.51	0.44
3:W:437:SER:HG	9:c:225:TRP:NE1	2.16	0.44
5:Y:179:ARG:HH12	5:Y:210:SER:N	2.14	0.44
5:Y:224:VAL:O	5:Y:228:MET:HE3	2.18	0.44
7:a:38:THR:CG2	7:a:71:VAL:HG11	2.46	0.44
7:a:194:GLN:HB2	7:a:229:ASP:OD2	2.18	0.44
8:b:129:LYS:O	8:b:132:LYS:HB2	2.17	0.44
9:c:198:ARG:O	9:c:199:HIS:HB2	2.17	0.44
10:d:50:LEU:O	10:d:54:ILE:HG23	2.18	0.44
10:d:68:ILE:HG23	10:d:105:PHE:HE1	1.79	0.44
10:d:132:TYR:OH	10:d:160:ALA:HB2	2.18	0.44
11:f:223:GLU:CA	13:B:60:LEU:HD21	2.35	0.44
11:f:332:ALA:HA	11:f:336:GLU:H	1.82	0.44
11:f:423:ASP:OD1	11:f:424:GLY:N	2.50	0.44
11:f:590:PHE:CZ	11:f:631:LYS:HB2	2.53	0.44
11:f:711:SER:HA	11:f:749:ALA:CB	2.36	0.44
12:A:188:ARG:HD3	12:A:192:GLU:CB	2.48	0.44
12:A:302:LEU:O	12:A:306:LEU:HB2	2.17	0.44
12:A:354:ILE:CD1	35:A:501:ATP:C6	3.01	0.44
13:B:140:ASP:HB3	13:B:143:LEU:CG	2.48	0.44
13:B:145:GLU:OE1	13:B:145:GLU:N	2.50	0.44
15:D:102:ILE:HG13	15:D:112:TYR:HD1	1.83	0.44
15:D:147:ALA:HA	16:E:62:LYS:CD	2.48	0.44
15:D:264:ILE:HG22	15:D:267:ILE:HG22	2.00	0.44
15:D:284:GLU:O	15:D:288:ILE:HG13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:E:281:ARG:HD3	17:F:295:ARG:HD2	2.00	0.44
17:F:91:SER:HB2	17:F:125:LYS:O	2.18	0.44
19:G:93:ARG:HH21	19:G:121:ILE:CD1	2.31	0.44
19:G:219:VAL:HG12	19:G:228:ARG:O	2.17	0.44
21:I:159:TRP:CE3	22:J:54:GLN:HG3	2.53	0.44
24:L:11:THR:HG23	25:M:129:ARG:N	2.33	0.44
24:L:97:PHE:O	31:S:66:LYS:NZ	2.37	0.44
24:L:130:VAL:CG2	24:L:132:LEU:HG	2.48	0.44
25:M:33:SER:O	25:M:167:LYS:HG3	2.18	0.44
25:M:39:ILE:HD12	25:M:162:GLY:CA	2.48	0.44
25:M:217:GLY:N	25:M:220:THR:OG1	2.49	0.44
26:N:1:THR:HG23	26:N:33:LYS:HE2	2.00	0.44
27:O:18:THR:OG1	27:O:171:SER:HB3	2.18	0.44
28:P:57:ALA:O	28:P:60:VAL:HB	2.18	0.44
28:P:177:ARG:O	30:r:26:ILE:HD12	2.17	0.44
32:T:45:VAL:HG12	32:T:46:ASN:N	2.32	0.44
21:i:10:THR:CG2	22:j:125:ARG:HB2	2.36	0.44
21:i:168:SER:O	21:i:171:ALA:HB3	2.17	0.44
22:j:94:HIS:HB3	22:j:102:VAL:HG22	1.99	0.44
22:j:154:HIS:CE1	23:k:64:ILE:HD11	2.53	0.44
24:l:196:ARG:HH22	24:l:238:GLU:HA	1.83	0.44
26:n:1:THR:HG23	26:n:33:LYS:HE2	2.00	0.44
28:p:59:ASP:OD2	28:p:104:TYR:N	2.28	0.44
31:s:55:SER:O	31:s:106:VAL:HA	2.17	0.44
31:s:125:ASP:OD1	31:s:129:SER:N	2.50	0.44
32:t:25:ASP:HA	32:t:187:PHE:CB	2.48	0.44
1:U:58:GLN:HB3	1:U:84:ALA:HA	2.00	0.43
1:U:447:GLY:CA	1:U:484:ALA:HB2	2.48	0.43
1:U:494:TYR:CE2	1:U:498:LYS:HD3	2.53	0.43
2:V:80:LYS:HE2	2:V:127:THR:N	2.33	0.43
2:V:279:GLN:HG2	2:V:279:GLN:O	2.17	0.43
2:V:301:GLU:OE2	2:V:304:GLU:HB3	2.18	0.43
2:V:319:HIS:CE1	18:e:1:MET:HE2	2.53	0.43
3:W:115:ILE:O	3:W:120:ILE:HB	2.18	0.43
3:W:345:GLU:HG2	3:W:346:GLU:N	2.32	0.43
3:W:437:SER:OG	9:c:226:MET:HE3	2.18	0.43
6:Z:231:GLN:O	6:Z:234:PHE:HB2	2.18	0.43
6:Z:246:VAL:HG22	10:d:235:THR:OG1	2.17	0.43
7:a:325:ASP:O	7:a:329:LYS:HA	2.17	0.43
8:b:52:ILE:HG12	8:b:92:VAL:HG13	2.00	0.43
11:f:326:LEU:O	11:f:329:ASN:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:619:HIS:H	13:B:85:MET:HE1	1.83	0.43
11:f:672:LEU:HB3	11:f:709:THR:HG22	1.99	0.43
11:f:680:ARG:CD	11:f:763:ARG:HA	2.47	0.43
11:f:687:ARG:HA	11:f:713:PHE:HZ	1.82	0.43
11:f:773:LYS:C	11:f:775:THR:N	2.76	0.43
12:A:52:ILE:CD1	12:A:55:LEU:HD23	2.48	0.43
14:C:25:LEU:HD12	15:D:40:LEU:CD1	2.45	0.43
14:C:328:ILE:HG23	14:C:332:HIS:HD2	1.82	0.43
17:F:341:ALA:HB1	17:F:347:ARG:HH12	1.83	0.43
20:H:19:LEU:O	20:H:23:GLU:HG3	2.17	0.43
21:I:168:SER:OG	21:I:171:ALA:HB3	2.18	0.43
23:K:16:SER:HB3	23:K:20:ARG:H	1.82	0.43
24:L:183:ASN:O	24:L:187:LEU:CB	2.66	0.43
25:M:100:SER:HA	32:T:65:GLN:HE21	1.82	0.43
25:M:175:GLU:OE1	25:M:175:GLU:N	2.36	0.43
25:M:213:LEU:O	25:M:227:VAL:HG22	2.17	0.43
30:R:36:GLU:HA	30:R:42:LEU:CD2	2.48	0.43
30:R:148:GLU:HB2	30:R:151:GLN:HG3	1.99	0.43
32:T:99:ARG:HD2	32:T:104:ASN:O	2.18	0.43
19:g:238:HIS:O	19:g:241:ALA:HB3	2.18	0.43
23:k:16:SER:HB3	23:k:20:ARG:H	1.82	0.43
23:k:200:ILE:O	23:k:204:GLN:HG3	2.18	0.43
24:l:38:LEU:HD13	24:l:187:LEU:HD11	2.00	0.43
24:l:43:HIS:CE1	24:l:184:LEU:HD11	2.53	0.43
24:l:47:VAL:HG13	24:l:211:SER:O	2.18	0.43
25:m:39:ILE:HD12	25:m:162:GLY:CA	2.48	0.43
25:m:197:ILE:CA	25:m:200:VAL:HG12	2.46	0.43
26:n:40:ARG:NH1	26:n:183:GLY:CA	2.81	0.43
27:o:103:VAL:HG23	27:o:178:ILE:HG22	1.99	0.43
31:s:11:THR:HG23	31:s:138:GLY:O	2.17	0.43
1:U:202:VAL:HG12	1:U:205:TYR:CD2	2.53	0.43
1:U:412:HIS:NE2	1:U:422:LEU:HD13	2.32	0.43
1:U:560:MET:HG2	1:U:590:TYR:HA	2.00	0.43
1:U:612:ASP:HB3	1:U:647:HIS:CD2	2.53	0.43
2:V:160:LEU:HA	2:V:164:GLU:OE1	2.18	0.43
2:V:179:LYS:O	2:V:183:GLU:HG3	2.18	0.43
2:V:262:SER:HB2	10:d:120:GLU:O	2.18	0.43
2:V:372:LEU:HD11	2:V:402:VAL:HG11	2.00	0.43
3:W:19:ASP:OD1	3:W:20:TYR:N	2.49	0.43
3:W:269:SER:HA	3:W:336:PRO:CB	2.47	0.43
3:W:273:TYR:O	3:W:276:LEU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:117:LYS:HB3	5:Y:151:TYR:CD2	2.53	0.43
5:Y:179:ARG:HA	5:Y:179:ARG:HD3	1.27	0.43
5:Y:215:ASP:O	5:Y:220:VAL:HG23	2.17	0.43
5:Y:219:PHE:O	5:Y:222:TYR:HB2	2.18	0.43
5:Y:297:ARG:HA	5:Y:300:ARG:HB2	2.01	0.43
7:a:219:HIS:CE1	7:a:222:LEU:HD23	2.53	0.43
8:b:32:ALA:HA	8:b:35:ILE:HG13	1.99	0.43
9:c:34:SER:OG	9:c:37:ALA:HB2	2.18	0.43
9:c:49:VAL:CG1	9:c:50:PRO:HD3	2.48	0.43
9:c:189:ILE:CD1	9:c:192:LEU:HD11	2.42	0.43
9:c:228:GLY:C	9:c:229:LEU:HD22	2.43	0.43
11:f:13:PRO:O	11:f:17:PRO:HG2	2.18	0.43
11:f:16:SER:OG	11:f:34:ARG:NH1	2.51	0.43
11:f:682:GLY:HA3	11:f:687:ARG:NH1	2.33	0.43
11:f:786:GLN:O	11:f:786:GLN:NE2	2.51	0.43
11:f:828:ARG:HG2	11:f:845:ARG:C	2.43	0.43
11:f:840:LEU:O	11:f:840:LEU:HG	2.17	0.43
12:A:191:VAL:CG2	12:A:318:LEU:HD21	2.48	0.43
12:A:294:GLU:HA	12:A:297:ARG:HH11	1.83	0.43
13:B:51:LEU:HD12	13:B:64:LYS:HE2	1.99	0.43
13:B:103:ARG:HD3	13:B:160:ILE:CG2	2.48	0.43
13:B:229:GLY:HA2	37:B:501:ADP:H5'2	2.00	0.43
13:B:378:VAL:HG11	13:B:414:VAL:CG1	2.48	0.43
14:C:78:ARG:HD2	14:C:79:ALA:O	2.18	0.43
15:D:268:ASP:N	15:D:311:THR:HG21	2.33	0.43
15:D:384:MET:HE2	16:E:159:PHE:HD1	1.80	0.43
16:E:61:LEU:HB2	16:E:70:ILE:O	2.18	0.43
16:E:196:LEU:HD12	16:E:230:ILE:HD11	1.99	0.43
16:E:264:MET:HE1	16:E:294:ARG:CB	2.47	0.43
20:H:188:ILE:HG22	20:H:229:TYR:CE2	2.54	0.43
22:J:38:ARG:HH12	22:J:182:GLU:CA	2.30	0.43
23:K:55:THR:H	23:K:59:MET:CE	2.32	0.43
26:N:19:ARG:HE	26:N:26:ILE:CD1	2.31	0.43
27:O:203:ARG:HD3	28:P:162:HIS:CG	2.53	0.43
31:S:7:PHE:CZ	31:S:9:GLY:HA2	2.52	0.43
31:S:175:VAL:HA	31:S:178:VAL:CG2	2.48	0.43
21:i:119:GLN:CD	21:i:123:GLN:HE21	2.26	0.43
23:k:46:VAL:HB	23:k:220:VAL:CG1	2.48	0.43
24:l:156:CYS:CA	25:m:58:TYR:HA	2.28	0.43
24:l:183:ASN:O	24:l:187:LEU:HB2	2.18	0.43
25:m:217:GLY:N	25:m:220:THR:OG1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:o:41:ILE:HA	27:o:101:GLY:O	2.18	0.43
29:q:14:LEU:HD13	29:q:182:ILE:HD13	2.00	0.43
30:r:36:GLU:HA	30:r:42:LEU:CD2	2.48	0.43
32:t:27:LEU:HD12	32:t:36:PHE:O	2.18	0.43
32:t:99:ARG:HD2	32:t:104:ASN:O	2.18	0.43
1:U:461:LEU:O	1:U:465:LEU:HD13	2.17	0.43
1:U:465:LEU:CD2	1:U:481:LEU:HD22	2.47	0.43
1:U:624:PHE:CE2	1:U:764:LEU:HD13	2.54	0.43
1:U:656:LEU:HD23	1:U:668:ALA:HA	2.01	0.43
1:U:685:GLN:HG3	1:U:725:MET:O	2.18	0.43
2:V:48:THR:HG23	2:V:147:PHE:CE1	2.53	0.43
2:V:148:ARG:NH2	2:V:189:ASP:OD1	2.51	0.43
2:V:282:ASN:O	2:V:316:ALA:HB2	2.18	0.43
2:V:465:ASP:HA	2:V:468:SER:H	1.82	0.43
2:V:488:ASN:O	2:V:492:LYS:HG2	2.18	0.43
3:W:367:ALA:HA	3:W:415:PHE:CD2	2.53	0.43
4:X:142:ARG:HB3	4:X:145:GLU:OE2	2.18	0.43
5:Y:270:VAL:HG22	5:Y:273:GLN:HB2	2.00	0.43
7:a:77:VAL:O	7:a:80:ILE:HG22	2.18	0.43
7:a:217:LEU:HD23	7:a:238:TYR:CD1	2.53	0.43
9:c:125:VAL:HA	9:c:128:ASN:ND2	2.28	0.43
9:c:187:PRO:CB	9:c:196:LEU:CD1	2.97	0.43
10:d:67:ASP:O	10:d:71:PHE:HB2	2.18	0.43
10:d:142:TYR:O	10:d:147:SER:HB3	2.17	0.43
11:f:24:THR:HA	11:f:31:LYS:HB2	1.99	0.43
11:f:42:GLU:O	11:f:47:GLU:HB2	2.18	0.43
11:f:447:ALA:O	11:f:450:ILE:HB	2.17	0.43
11:f:494:ARG:HG3	11:f:497:VAL:HG12	1.98	0.43
11:f:580:LEU:HA	11:f:583:VAL:CG1	2.48	0.43
11:f:606:VAL:HG21	13:B:67:ARG:HB3	1.99	0.43
12:A:75:PRO:HA	12:A:78:TRP:NE1	2.32	0.43
35:A:501:ATP:O3B	13:B:343:ARG:NH2	2.51	0.43
13:B:403:GLY:HA3	14:C:178:LEU:HD22	1.99	0.43
14:C:134:LEU:CD2	14:C:230:MET:HA	2.36	0.43
14:C:165:ILE:HD12	14:C:203:VAL:HG11	2.00	0.43
14:C:375:ARG:HH21	14:C:379:THR:HG21	1.84	0.43
15:D:284:GLU:HA	15:D:287:ARG:NE	2.33	0.43
16:E:138:LEU:HD12	16:E:138:LEU:O	2.19	0.43
16:E:196:LEU:HD12	16:E:230:ILE:CD1	2.48	0.43
16:E:233:ASP:OD1	16:E:234:GLU:N	2.52	0.43
16:E:349:GLU:HB2	16:E:370:ALA:HB1	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G:37:LEU:HD11	19:G:53:GLN:O	2.18	0.43
19:G:41:ALA:N	19:G:166:THR:O	2.49	0.43
19:G:127:GLN:HA	20:H:128:ARG:NH2	2.32	0.43
19:G:143:ILE:HD12	19:G:222:VAL:HG23	1.99	0.43
20:H:58:ASP:OD1	20:H:59:GLU:N	2.51	0.43
21:I:239:LYS:O	21:I:243:GLU:HG2	2.19	0.43
22:J:95:ARG:HH22	22:J:101:PRO:HB3	1.83	0.43
23:K:200:ILE:O	23:K:204:GLN:HG3	2.18	0.43
24:L:71:GLY:HA3	24:L:221:PHE:CZ	2.52	0.43
24:L:72:ILE:CG2	24:L:134:ILE:HG12	2.48	0.43
26:N:3:ILE:CD1	26:N:99:ILE:HD12	2.48	0.43
26:N:19:ARG:HD3	26:N:170:SER:C	2.44	0.43
29:Q:61:GLN:O	29:Q:65:GLN:HG2	2.18	0.43
30:R:141:ARG:NH2	29:q:162:LYS:O	2.51	0.43
30:R:192:VAL:HG11	28:p:205:ASP:HB3	2.00	0.43
31:S:124:PHE:CD1	31:S:130:TYR:HB3	2.53	0.43
32:T:136:SER:HB2	32:T:150:LEU:HD13	1.99	0.43
19:g:180:GLU:O	19:g:184:LYS:HG2	2.19	0.43
20:h:97:TYR:CE2	20:h:105:ILE:HA	2.54	0.43
20:h:188:ILE:HG22	20:h:229:TYR:CE2	2.53	0.43
21:i:38:LEU:HD23	21:i:43:VAL:HG21	2.00	0.43
21:i:76:VAL:HA	21:i:134:LEU:HB3	2.00	0.43
21:i:232:GLU:HA	21:i:235:GLN:CG	2.44	0.43
24:l:15:PRO:HA	25:m:25:TYR:CZ	2.54	0.43
24:l:137:TYR:HE1	24:l:142:PRO:HB3	1.82	0.43
24:l:183:ASN:O	24:l:187:LEU:CB	2.67	0.43
26:n:3:ILE:CD1	26:n:99:ILE:HD12	2.48	0.43
26:n:29:ARG:HH22	27:o:139:GLU:CG	2.30	0.43
28:p:28:PHE:CD2	28:p:35:VAL:HB	2.51	0.43
28:p:189:ILE:HG23	28:p:196:THR:HB	2.00	0.43
29:q:183:ILE:HA	29:q:187:GLY:O	2.18	0.43
30:r:125:THR:HB	30:r:139:MET:HE3	2.00	0.43
32:t:45:VAL:CG2	32:t:49:THR:HG23	2.48	0.43
32:t:136:SER:HB2	32:t:150:LEU:HD13	1.99	0.43
33:v:154:CYS:SG	33:v:155:PHE:N	2.91	0.43
33:v:184:HIS:CE1	33:v:186:CYS:SG	3.12	0.43
1:U:35:TRP:HB3	1:U:67:VAL:HG23	1.99	0.43
1:U:64:ALA:HB1	1:U:68:PHE:HE2	1.84	0.43
1:U:386:LEU:HD23	1:U:393:LEU:HD11	1.99	0.43
1:U:539:THR:OG1	1:U:544:ILE:HG21	2.18	0.43
1:U:639:LEU:HD21	14:C:49:ARG:CD	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:416:ARG:HG3	2:V:459:GLN:HB3	2.00	0.43
2:V:464:ILE:CG2	5:Y:363:ASN:HD21	2.32	0.43
3:W:20:TYR:HB3	3:W:23:THR:HG23	1.99	0.43
3:W:152:ILE:HA	3:W:155:GLN:HE22	1.83	0.43
3:W:190:MET:HB2	3:W:202:THR:HG23	1.99	0.43
3:W:346:GLU:OE2	3:W:350:ARG:NE	2.52	0.43
4:X:97:LEU:HD21	4:X:110:CYS:SG	2.58	0.43
4:X:140:THR:OG1	4:X:142:ARG:HG3	2.18	0.43
5:Y:277:VAL:O	5:Y:280:GLN:HB3	2.19	0.43
6:Z:19:VAL:HG22	6:Z:95:TYR:CZ	2.53	0.43
6:Z:190:ARG:O	6:Z:193:ASN:HB2	2.19	0.43
7:a:257:GLN:HB3	7:a:261:LEU:HD22	2.01	0.43
8:b:78:VAL:HG13	8:b:80:PRO:HD3	2.00	0.43
9:c:216:MET:HA	9:c:219:ASN:OD1	2.18	0.43
10:d:152:PHE:HD1	10:d:155:LYS:HE3	1.83	0.43
10:d:200:PHE:C	10:d:203:PRO:HD3	2.44	0.43
11:f:255:VAL:HG11	11:f:292:LYS:HG2	2.00	0.43
11:f:261:ARG:CG	11:f:269:ALA:HB3	2.49	0.43
11:f:309:GLU:HB2	11:f:314:TYR:CE2	2.53	0.43
11:f:369:ARG:CA	11:f:372:LEU:HD13	2.43	0.43
11:f:597:VAL:CG1	11:f:600:TYR:HB2	2.43	0.43
11:f:631:LYS:HD3	11:f:634:LYS:HB3	2.00	0.43
11:f:812:GLY:HA3	11:f:825:MET:HE1	1.99	0.43
11:f:828:ARG:HB3	11:f:843:SER:OG	2.17	0.43
12:A:188:ARG:O	12:A:193:THR:HG23	2.18	0.43
13:B:51:LEU:CD1	13:B:54:PRO:HD3	2.48	0.43
13:B:128:GLY:O	13:B:130:GLU:HG3	2.19	0.43
13:B:153:ASN:OD1	13:B:154:HIS:N	2.47	0.43
14:C:69:GLN:HB3	15:D:136:SER:HA	2.01	0.43
14:C:219:LEU:HD13	14:C:223:PHE:CE2	2.53	0.43
15:D:95:ALA:HA	15:D:101:ALA:CA	2.44	0.43
15:D:383:GLY:HA3	16:E:164:ILE:CD1	2.48	0.43
15:D:415:GLU:HB3	19:G:159:TYR:OH	2.18	0.43
16:E:221:TYR:O	16:E:224:ASP:HB2	2.19	0.43
17:F:172:VAL:HG22	17:F:267:LEU:HD12	2.00	0.43
20:H:69:THR:HG22	20:H:70:LYS:N	2.34	0.43
21:I:49:ARG:HB2	21:I:210:LYS:HA	2.00	0.43
23:K:20:ARG:HG3	23:K:21:LEU:N	2.32	0.43
24:L:146:GLN:NE2	24:L:159:MET:HE2	2.25	0.43
24:L:183:ASN:O	24:L:187:LEU:HB2	2.18	0.43
26:N:19:ARG:NH2	32:t:181:ALA:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:P:4:MET:HE2	28:P:104:TYR:HD1	1.82	0.43
28:P:42:ILE:HG21	28:P:188:HIS:CD2	2.53	0.43
29:Q:19:ARG:HB3	29:Q:31:ASP:C	2.44	0.43
29:Q:196:PHE:HB3	29:q:198:LYS:O	2.18	0.43
19:g:37:LEU:HD11	19:g:53:GLN:O	2.19	0.43
19:g:199:ILE:HG23	19:g:210:PHE:CE1	2.53	0.43
20:h:4:ARG:HD3	25:m:127:ALA:CB	2.48	0.43
20:h:19:LEU:O	20:h:23:GLU:HG3	2.17	0.43
20:h:35:SER:OG	20:h:48:THR:HA	2.19	0.43
20:h:35:SER:HB2	20:h:48:THR:HA	2.00	0.43
23:k:157:ASP:OD2	23:k:161:THR:HB	2.18	0.43
25:m:66:LEU:HD12	25:m:212:GLU:HB3	2.00	0.43
25:m:106:ILE:HD12	25:m:107:PRO:CD	2.46	0.43
31:s:175:VAL:HA	31:s:178:VAL:CG2	2.48	0.43
31:s:209:SER:OG	31:s:212:LYS:NZ	2.22	0.43
32:t:147:GLN:HB3	32:t:148:PRO:HD3	2.01	0.43
1:U:187:LEU:O	15:D:45:LYS:HE2	2.18	0.43
1:U:249:CYS:SG	1:U:328:ILE:HG21	2.58	0.43
1:U:320:ASP:N	1:U:327:LYS:HZ3	2.16	0.43
1:U:447:GLY:HA2	1:U:484:ALA:HB2	2.01	0.43
1:U:494:TYR:CE1	1:U:516:LEU:HG	2.54	0.43
1:U:646:PRO:HG2	1:U:680:VAL:HG21	2.00	0.43
2:V:391:THR:O	2:V:394:LEU:HD23	2.19	0.43
2:V:452:ASN:HB2	2:V:455:LYS:O	2.18	0.43
3:W:166:LEU:HA	3:W:169:LEU:HD11	1.99	0.43
3:W:333:LEU:HD12	3:W:334:GLU:H	1.83	0.43
4:X:67:GLY:O	4:X:71:LYS:NZ	2.42	0.43
4:X:91:SER:O	4:X:95:LEU:HD13	2.18	0.43
4:X:137:TYR:CG	4:X:142:ARG:HD2	2.52	0.43
5:Y:104:MET:CG	5:Y:127:THR:HB	2.36	0.43
5:Y:117:LYS:O	5:Y:121:LEU:HD23	2.18	0.43
5:Y:174:TRP:O	5:Y:178:ASN:ND2	2.52	0.43
5:Y:181:LYS:HB3	5:Y:209:THR:HB	2.01	0.43
5:Y:311:TYR:CB	5:Y:314:LEU:HD12	2.48	0.43
5:Y:315:THR:OG1	5:Y:352:GLU:O	2.25	0.43
7:a:73:PRO:HG2	7:a:110:ALA:HB3	1.99	0.43
7:a:247:ARG:C	7:a:250:THR:HG22	2.43	0.43
7:a:258:GLN:HB2	7:a:259:PRO:HD3	2.01	0.43
11:f:35:ASP:OD1	11:f:88:SER:HB3	2.18	0.43
11:f:180:GLN:HB3	11:f:219:LYS:CD	2.49	0.43
11:f:608:LYS:HA	11:f:611:GLN:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:A:152:PRO:C	12:A:153:LEU:HD12	2.43	0.43
13:B:90:GLU:OE1	13:B:90:GLU:N	2.48	0.43
13:B:229:GLY:C	37:B:501:ADP:H5'1	2.44	0.43
13:B:285:ASP:OD1	13:B:286:GLU:N	2.52	0.43
14:C:85:VAL:HG23	14:C:87:VAL:HG23	2.01	0.43
14:C:316:GLU:OE1	14:C:316:GLU:N	2.41	0.43
15:D:141:ASP:OD1	15:D:142:VAL:N	2.51	0.43
15:D:170:MET:HG3	15:D:174:LYS:HG3	2.00	0.43
19:G:73:THR:HG22	19:G:74:GLU:N	2.33	0.43
19:G:88:ARG:HH12	25:M:157:SER:H	1.65	0.43
19:G:102:LYS:HD2	19:G:107:TYR:O	2.17	0.43
20:H:11:THR:O	21:I:128:ARG:HD3	2.18	0.43
22:J:94:HIS:HB3	22:J:102:VAL:HG22	1.99	0.43
22:J:176:TYR:CE1	23:K:58:LEU:HG	2.53	0.43
24:L:90:GLN:O	24:L:93:LEU:HG	2.19	0.43
26:N:78:THR:O	26:N:81:SER:HB2	2.19	0.43
26:N:144:ARG:O	26:N:147:MET:HG3	2.19	0.43
27:O:187:ARG:HB3	27:O:188:PRO:CD	2.48	0.43
29:Q:100:VAL:O	29:Q:120:TYR:HB3	2.19	0.43
22:j:195:LEU:O	22:j:201:SER:OG	2.22	0.43
24:l:212:ILE:HD13	24:l:229:VAL:HG22	2.00	0.43
26:n:113:SER:HB2	26:n:121:VAL:CG1	2.48	0.43
28:p:138:VAL:HB	28:p:146:MET:HE3	1.99	0.43
29:q:158:GLU:O	29:q:161:ARG:HB2	2.19	0.43
30:r:139:MET:O	30:r:143:TYR:HB2	2.18	0.43
31:s:191:ASP:HA	31:s:210:LEU:HB2	1.99	0.43
1:U:321:GLN:HG2	1:U:322:THR:N	2.33	0.43
1:U:423:MET:HE1	1:U:445:ALA:HB1	2.01	0.43
1:U:485:ALA:O	1:U:519:VAL:HA	2.19	0.43
2:V:167:LEU:HD11	2:V:171:VAL:HB	2.01	0.43
2:V:179:LYS:HD3	2:V:210:CYS:HB2	1.98	0.43
3:W:328:LEU:HG	3:W:341:PHE:CD2	2.53	0.43
3:W:369:TYR:HB3	7:a:324:ILE:HD13	2.01	0.43
3:W:375:MET:HE2	3:W:386:VAL:HB	2.00	0.43
4:X:255:LEU:CD2	4:X:267:VAL:HG13	2.39	0.43
5:Y:99:GLU:HB3	5:Y:101:ARG:HH22	1.83	0.43
5:Y:138:LEU:HA	5:Y:176:ARG:NH1	2.34	0.43
6:Z:202:ASN:ND2	7:a:361:LYS:HD2	2.30	0.43
6:Z:205:LEU:HA	6:Z:208:ILE:HG22	1.99	0.43
6:Z:263:ALA:CB	9:c:288:VAL:HG13	2.37	0.43
7:a:4:VAL:HG22	7:a:63:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:232:TRP:CH2	7:a:257:GLN:HB2	2.53	0.43
7:a:257:GLN:HB3	7:a:261:LEU:CD2	2.48	0.43
8:b:129:LYS:HA	8:b:132:LYS:CG	2.48	0.43
8:b:142:ASN:HD21	8:b:170:LEU:HD11	1.84	0.43
9:c:266:THR:CG2	9:c:267:PRO:CD	2.95	0.43
10:d:158:ILE:HG21	10:d:161:GLU:O	2.18	0.43
11:f:132:THR:O	11:f:136:GLU:HG3	2.19	0.43
11:f:501:LEU:CA	11:f:504:VAL:HG23	2.49	0.43
11:f:759:LEU:HD23	11:f:806:VAL:HG11	2.00	0.43
13:B:184:TYR:HA	13:B:187:ILE:CD1	2.49	0.43
14:C:139:MET:CE	14:C:215:SER:H	2.31	0.43
14:C:340:ARG:HG3	14:C:341:GLY:N	2.33	0.43
14:C:343:ASN:ND2	14:C:346:LYS:HG3	2.33	0.43
17:F:273:ALA:O	17:F:276:LYS:HB2	2.18	0.43
17:F:307:GLN:O	17:F:311:LEU:HG	2.18	0.43
17:F:310:MET:O	17:F:313:LEU:HB3	2.18	0.43
19:G:95:ARG:HH21	26:N:68:ILE:HG22	1.84	0.43
19:G:125:TYR:CD1	19:G:131:MET:HE2	2.53	0.43
20:H:97:TYR:CE2	20:H:105:ILE:HA	2.54	0.43
20:H:157:ALA:CB	21:I:57:ASP:HB2	2.48	0.43
22:J:26:VAL:HG13	22:J:74:ALA:HB3	2.00	0.43
22:J:160:ALA:CB	22:J:168:VAL:HB	2.49	0.43
23:K:95:GLU:O	23:K:98:ASN:HB2	2.18	0.43
24:L:47:VAL:HG13	24:L:211:SER:O	2.18	0.43
26:N:66:HIS:CE1	26:N:70:LEU:HD21	2.54	0.43
29:Q:4:LEU:HD11	29:Q:47:VAL:HG23	2.01	0.43
20:h:58:ASP:OD1	20:h:59:GLU:N	2.51	0.43
21:i:38:LEU:HD21	21:i:147:LEU:HG	2.01	0.43
26:n:135:ILE:O	26:n:139:VAL:HG12	2.19	0.43
28:p:42:ILE:HG21	28:p:188:HIS:CD2	2.53	0.43
1:U:60:ALA:O	1:U:64:ALA:HB2	2.19	0.43
1:U:64:ALA:HB1	1:U:80:TYR:HD2	1.83	0.43
1:U:328:ILE:HG13	1:U:329:LEU:N	2.33	0.43
1:U:521:LEU:HD13	1:U:554:LEU:CG	2.48	0.43
1:U:643:SER:OG	1:U:648:VAL:HB	2.18	0.43
2:V:29:PRO:HB2	2:V:30:PRO:HD3	2.00	0.43
3:W:314:LEU:N	3:W:314:LEU:CD1	2.73	0.43
3:W:377:ARG:CA	3:W:380:GLN:HG2	2.44	0.43
5:Y:81:LEU:HG	5:Y:107:LYS:HB3	2.01	0.43
5:Y:344:HIS:CE1	5:Y:359:PRO:HD3	2.54	0.43
6:Z:121:LEU:HD23	6:Z:155:PHE:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:21:VAL:HB	7:a:44:PHE:HE1	1.83	0.43
8:b:21:PHE:CD2	8:b:176:GLY:HA2	2.54	0.43
8:b:86:PHE:CE1	8:b:90:ILE:HD11	2.53	0.43
9:c:125:VAL:HA	9:c:128:ASN:HB2	2.00	0.43
10:d:24:GLY:O	10:d:27:LYS:HB2	2.19	0.43
11:f:72:ARG:NH2	11:f:83:ARG:HG2	2.10	0.43
11:f:127:SER:CA	11:f:131:MET:HB2	2.35	0.43
11:f:319:GLU:O	11:f:324:VAL:HG13	2.19	0.43
11:f:409:SER:HA	11:f:800:LEU:HD22	2.01	0.43
11:f:755:ASP:CG	11:f:756:PRO:HD2	2.44	0.43
11:f:763:ARG:O	11:f:764:LEU:HB2	2.19	0.43
11:f:831:VAL:HG12	11:f:842:VAL:O	2.19	0.43
11:f:873:LEU:HD23	11:f:873:LEU:H	1.84	0.43
12:A:69:ASP:O	12:A:72:LEU:HD23	2.18	0.43
12:A:351:ARG:NE	12:A:377:CYS:O	2.52	0.43
12:A:368:ILE:HA	12:A:406:GLU:OE1	2.19	0.43
12:A:416:VAL:HA	12:A:419:SER:HB2	1.99	0.43
13:B:234:LEU:CD1	37:B:501:ADP:H2'	2.38	0.43
14:C:226:GLU:HB2	14:C:229:ARG:HD2	2.01	0.43
15:D:132:LEU:CD2	15:D:139:LEU:HD23	2.47	0.43
15:D:191:TYR:CD1	15:D:196:ILE:HB	2.54	0.43
16:E:118:LEU:O	16:E:118:LEU:HG	2.19	0.43
17:F:363:ALA:CB	17:F:385:ALA:HB2	2.36	0.43
20:H:35:SER:OG	20:H:48:THR:HA	2.18	0.43
21:I:119:GLN:CD	21:I:123:GLN:HE21	2.26	0.43
22:J:79:ASP:O	22:J:83:VAL:HG23	2.19	0.43
23:K:71:ASP:HB3	23:K:74:ILE:HD12	2.01	0.43
23:K:92:ALA:O	23:K:96:THR:HG23	2.19	0.43
24:L:41:LYS:HG2	24:L:180:MET:CE	2.39	0.43
24:L:43:HIS:CE1	24:L:184:LEU:HD11	2.53	0.43
24:L:50:LYS:HB2	24:L:209:ASN:CA	2.43	0.43
24:L:157:ARG:HB3	25:M:59:GLU:HG2	2.01	0.43
27:O:52:THR:O	27:O:56:THR:HG22	2.17	0.43
28:P:23:ALA:HB2	28:P:187:VAL:HG22	2.00	0.43
30:R:148:GLU:N	30:R:151:GLN:OE1	2.43	0.43
31:S:123:SER:O	31:S:130:TYR:HB2	2.19	0.43
19:g:125:TYR:HA	19:g:131:MET:CE	2.43	0.43
22:j:160:ALA:CB	22:j:168:VAL:HB	2.49	0.43
25:m:36:ALA:HB1	25:m:49:VAL:HG22	2.01	0.43
25:m:149:TYR:HD1	25:m:159:GLY:HA2	1.83	0.43
26:n:103:TRP:CH2	26:n:181:GLU:HG3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:o:12:ILE:HD11	27:o:109:HIS:H	1.84	0.43
28:p:23:ALA:HB2	28:p:187:VAL:HG22	2.00	0.43
29:q:18:ASP:HA	29:q:178:PHE:HD1	1.82	0.43
1:U:146:LYS:HB3	14:C:20:LEU:CD1	2.26	0.43
1:U:423:MET:O	1:U:427:LEU:HD12	2.19	0.43
1:U:482:GLY:HA3	1:U:518:LEU:HB2	2.01	0.43
1:U:497:LEU:HD23	1:U:515:ALA:C	2.43	0.43
2:V:33:GLN:HA	2:V:89:LYS:NZ	2.32	0.43
3:W:112:VAL:HA	3:W:120:ILE:HD12	2.00	0.43
3:W:127:THR:HG23	3:W:147:LYS:NZ	2.33	0.43
3:W:316:ARG:HH22	3:W:381:LEU:HA	1.84	0.43
6:Z:187:LEU:HD11	10:d:254:GLU:HB2	2.00	0.43
7:a:274:LEU:CA	7:a:310:LEU:HD21	2.42	0.43
8:b:84:ILE:CD1	8:b:115:SER:HB2	2.49	0.43
8:b:148:VAL:O	8:b:151:GLU:HB2	2.18	0.43
9:c:30:GLN:HB3	9:c:66:THR:CG2	2.48	0.43
9:c:181:LEU:HD13	9:c:181:LEU:HA	1.87	0.43
9:c:303:MET:CE	10:d:239:SER:HA	2.49	0.43
10:d:108:SER:O	10:d:169:ILE:HG22	2.18	0.43
10:d:200:PHE:HB2	10:d:205:LYS:NZ	2.34	0.43
11:f:45:LEU:HD22	11:f:56:LEU:CD1	2.49	0.43
11:f:826:GLN:OE1	11:f:846:VAL:HA	2.17	0.43
12:A:227:ARG:HH21	13:B:319:PHE:HA	1.84	0.43
13:B:153:ASN:HD22	13:B:156:VAL:HG22	1.84	0.43
13:B:153:ASN:ND2	13:B:156:VAL:HG22	2.34	0.43
13:B:357:ASP:HB2	13:B:388:ASP:CB	2.48	0.43
13:B:365:PHE:CD2	13:B:384:ILE:HG12	2.54	0.43
13:B:373:THR:CB	13:B:413:LYS:HB3	2.48	0.43
16:E:181:THR:OG1	37:E:401:ADP:O2A	2.31	0.43
17:F:233:LYS:HE2	17:F:354:PHE:CE2	2.50	0.43
21:I:69:ASN:OD1	21:I:70:GLU:N	2.49	0.43
21:I:233:VAL:O	21:I:237:ILE:HG13	2.19	0.43
24:L:148:CYS:SG	24:L:151:ALA:N	2.92	0.43
25:M:25:TYR:HA	25:M:28:LYS:HE3	2.00	0.43
25:M:81:LEU:HG	25:M:85:ARG:NH1	2.34	0.43
26:N:37:ILE:HD11	26:N:43:CYS:CB	2.49	0.43
29:Q:158:GLU:O	29:Q:161:ARG:HB2	2.19	0.43
32:T:27:LEU:HD12	32:T:36:PHE:O	2.18	0.43
19:g:230:LEU:HB3	19:g:235:ILE:HG13	2.01	0.43
21:i:69:ASN:OD1	21:i:70:GLU:N	2.49	0.43
21:i:109:GLN:HA	21:i:112:THR:OG1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i:239:LYS:O	21:i:243:GLU:HG2	2.19	0.43
23:k:15:PHE:HE2	24:l:127:PRO:HD2	1.83	0.43
23:k:71:ASP:HB3	23:k:74:ILE:HD12	2.01	0.43
24:l:41:LYS:CG	24:l:180:MET:HE3	2.39	0.43
24:l:136:GLY:HA2	24:l:215:VAL:HG11	2.01	0.43
25:m:188:ASP:O	25:m:191:LYS:HG2	2.19	0.43
26:n:41:ILE:HG12	26:n:76:VAL:HG22	2.00	0.43
26:n:144:ARG:O	26:n:147:MET:HG3	2.19	0.43
29:q:4:LEU:HD11	29:q:47:VAL:HG23	2.01	0.43
29:q:29:LYS:HE3	29:q:31:ASP:C	2.44	0.43
31:s:175:VAL:HG13	31:s:179:PHE:HE2	1.84	0.43
1:U:265:ILE:HB	1:U:329:LEU:HD13	2.00	0.43
1:U:372:ALA:O	1:U:376:MET:HG2	2.19	0.43
1:U:685:GLN:HG2	1:U:729:GLY:N	2.33	0.43
2:V:205:LEU:O	2:V:208:ALA:HB3	2.19	0.43
2:V:346:LEU:HB2	18:e:41:ASP:O	2.19	0.43
2:V:355:ARG:NH2	18:e:8:VAL:HG11	2.33	0.43
2:V:479:ARG:CB	6:Z:261:TYR:HE1	2.32	0.43
3:W:90:LEU:CB	3:W:97:LEU:HD12	2.49	0.43
3:W:105:VAL:HG11	3:W:143:ALA:HB1	2.01	0.43
3:W:317:TRP:CD1	3:W:358:VAL:HG21	2.53	0.43
5:Y:26:LEU:HD12	5:Y:36:ALA:O	2.19	0.43
6:Z:97:THR:HA	6:Z:124:ILE:CD1	2.49	0.43
6:Z:172:VAL:O	6:Z:175:LEU:N	2.51	0.43
6:Z:209:ARG:HB3	7:a:353:LEU:HD12	2.00	0.43
6:Z:269:VAL:O	6:Z:273:HIS:ND1	2.51	0.43
7:a:15:GLY:HA3	7:a:22:TRP:NE1	2.33	0.43
9:c:149:GLN:HB3	15:D:81:ARG:HH21	1.82	0.43
10:d:78:LEU:HD13	10:d:98:LEU:HD11	2.01	0.43
11:f:371:ASN:HA	11:f:374:SER:OG	2.18	0.43
11:f:694:LEU:HD11	11:f:709:THR:OG1	2.19	0.43
11:f:701:ASN:OD1	11:f:703:ARG:HA	2.18	0.43
13:B:54:PRO:CG	13:B:61:LYS:HG3	2.42	0.43
13:B:378:VAL:HG12	13:B:416:ASN:CA	2.42	0.43
14:C:70:GLY:HA2	14:C:118:ASN:CB	2.48	0.43
14:C:164:VAL:O	14:C:290:LYS:HE3	2.19	0.43
14:C:189:TYR:OH	14:C:316:GLU:HB3	2.19	0.43
14:C:197:THR:CG2	14:C:213:ARG:HH12	2.32	0.43
14:C:224:ILE:HA	14:C:268:GLU:OE2	2.18	0.43
14:C:277:LEU:HD11	14:C:305:LEU:HD11	2.00	0.43
15:D:85:ILE:CB	15:D:86:PRO:CD	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:D:203:LEU:HD22	15:D:204:MET:H	1.84	0.43
16:E:235:ILE:HD11	16:E:277:MET:CB	2.47	0.43
20:H:71:HIS:CD2	20:H:72:ILE:HG13	2.54	0.43
22:J:148:ASP:O	22:J:151:GLY:N	2.49	0.43
25:M:70:ASP:OD2	25:M:72:HIS:ND1	2.51	0.43
27:O:12:ILE:HD11	27:O:109:HIS:H	1.84	0.43
27:O:41:ILE:HA	27:O:101:GLY:O	2.18	0.43
27:O:122:LEU:HB3	27:O:123:PRO:HD2	2.01	0.43
29:Q:14:LEU:HD13	29:Q:182:ILE:HD13	2.00	0.43
29:Q:96:THR:HG22	29:Q:98:TYR:CE1	2.53	0.43
20:h:69:THR:HG22	20:h:70:LYS:N	2.34	0.43
23:k:95:GLU:O	23:k:98:ASN:HB2	2.18	0.43
27:o:212:LEU:CD1	28:p:201:LYS:HA	2.42	0.43
29:q:43:LEU:HD11	29:q:188:ILE:HD12	2.01	0.43
30:r:74:ILE:HG12	30:r:78:ALA:HB3	2.00	0.43
30:r:80:SER:HG	30:r:120:ARG:HH21	1.66	0.43
32:t:184:TYR:CE2	32:t:186:ARG:HB3	2.53	0.43
1:U:49:TYR:HB2	1:U:60:ALA:HB3	2.01	0.43
1:U:221:ILE:HD13	1:U:255:SER:OG	2.19	0.43
2:V:67:LEU:O	2:V:70:VAL:HB	2.19	0.43
2:V:86:VAL:HA	2:V:89:LYS:HG2	2.00	0.43
2:V:218:TYR:HD1	2:V:221:LEU:HD21	1.83	0.43
2:V:383:GLY:O	2:V:387:GLN:N	2.42	0.43
3:W:90:LEU:HD23	3:W:96:GLN:HG3	2.00	0.43
3:W:288:HIS:O	3:W:291:SER:HB3	2.19	0.43
3:W:417:ARG:CG	3:W:418:PRO:HD2	2.49	0.43
3:W:442:THR:O	3:W:446:ILE:HD12	2.19	0.43
4:X:62:GLN:N	4:X:62:GLN:OE1	2.51	0.43
4:X:74:ARG:NH1	4:X:112:GLU:HB3	2.33	0.43
4:X:251:LEU:HA	4:X:254:MET:CG	2.46	0.43
4:X:259:ILE:HG12	4:X:267:VAL:HG21	2.00	0.43
5:Y:24:PHE:CE2	5:Y:286:TRP:HB2	2.54	0.43
5:Y:185:GLY:H	5:Y:213:LEU:CD1	2.29	0.43
5:Y:220:VAL:HA	5:Y:223:THR:CG2	2.46	0.43
5:Y:365:GLN:O	5:Y:369:THR:HG23	2.18	0.43
6:Z:244:GLU:OE1	6:Z:244:GLU:N	2.47	0.43
7:a:12:GLN:HA	7:a:22:TRP:CE3	2.54	0.43
7:a:45:VAL:HG21	7:a:79:ILE:CD1	2.49	0.43
7:a:195:GLU:HA	7:a:198:PHE:CB	2.49	0.43
8:b:8:VAL:O	8:b:52:ILE:HG22	2.19	0.43
9:c:111:TRP:O	9:c:143:VAL:HB	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:14:GLN:OE1	11:f:67:ASP:HB2	2.19	0.43
11:f:138:GLU:HB2	11:f:185:LEU:HD21	2.01	0.43
11:f:449:GLY:O	11:f:488:ALA:HB2	2.19	0.43
11:f:479:LEU:HB2	11:f:514:VAL:HG22	2.01	0.43
11:f:571:GLU:O	11:f:573:ILE:HD12	2.19	0.43
11:f:634:LYS:HA	11:f:637:LYS:NZ	2.33	0.43
12:A:73:ALA:O	12:A:78:TRP:NE1	2.47	0.43
12:A:84:LYS:C	12:A:86:THR:H	2.27	0.43
12:A:236:CYS:HB2	12:A:270:CYS:HB3	2.01	0.43
12:A:389:CYS:O	12:A:392:ALA:HB3	2.19	0.43
13:B:292:THR:HG23	13:B:293:LYS:N	2.34	0.43
13:B:394:ASP:O	13:B:398:ILE:HG13	2.18	0.43
14:C:130:LYS:HG3	15:D:94:GLU:OE1	2.19	0.43
15:D:376:ASN:O	15:D:380:GLN:HG3	2.19	0.43
16:E:167:PRO:HB3	16:E:296:ASP:CG	2.43	0.43
17:F:153:VAL:HG13	17:F:159:LEU:O	2.19	0.43
18:e:48:VAL:HA	18:e:52:PHE:CD2	2.54	0.43
19:G:230:LEU:HB3	19:G:235:ILE:HG13	2.01	0.43
20:H:15:PRO:HA	21:I:23:TYR:CZ	2.54	0.43
20:H:74:LEU:HD23	20:H:75:VAL:N	2.34	0.43
21:I:34:CYS:HB2	21:I:164:ILE:CD1	2.43	0.43
23:K:157:ASP:OD2	23:K:159:SER:OG	2.36	0.43
25:M:36:ALA:HB1	25:M:49:VAL:HG22	2.01	0.43
25:M:115:VAL:O	25:M:119:VAL:HG23	2.18	0.43
27:O:140:ASP:OD2	32:t:171:ARG:NH2	2.52	0.43
28:P:113:ASP:OD2	28:P:116:THR:OG1	2.22	0.43
29:Q:29:LYS:HE3	29:Q:31:ASP:C	2.44	0.43
32:T:25:ASP:HA	32:T:187:PHE:CB	2.48	0.43
23:k:16:SER:HA	23:k:22:PHE:HE1	1.82	0.43
24:l:148:CYS:SG	24:l:151:ALA:N	2.92	0.43
26:n:19:ARG:HE	26:n:26:ILE:CD1	2.31	0.43
26:n:96:ALA:HB1	26:n:98:ILE:HG12	2.00	0.43
27:o:3:ILE:HG22	27:o:16:ALA:HB1	2.00	0.43
28:p:113:ASP:N	28:p:118:LYS:O	2.52	0.43
29:q:61:GLN:O	29:q:65:GLN:HG2	2.18	0.43
33:v:152:ASN:OD1	33:v:152:ASN:N	2.52	0.43
1:U:190:ASN:ND2	1:U:192:GLN:HB3	2.34	0.42
1:U:220:LEU:CG	1:U:225:ASP:HB3	2.36	0.42
1:U:497:LEU:O	1:U:512:ALA:HB1	2.19	0.42
1:U:533:VAL:O	1:U:537:GLN:HG3	2.19	0.42
2:V:131:LEU:HD23	2:V:134:PHE:CD2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:287:VAL:HA	3:W:290:ILE:HD11	2.00	0.42
4:X:281:GLY:H	4:X:284:THR:HG22	1.84	0.42
5:Y:20:ALA:HB1	5:Y:150:PHE:HA	1.99	0.42
5:Y:181:LYS:HB3	5:Y:209:THR:CB	2.49	0.42
6:Z:94:TRP:CZ2	6:Z:105:ASP:OD1	2.70	0.42
7:a:73:PRO:HG2	7:a:110:ALA:CB	2.49	0.42
7:a:101:ARG:NE	7:a:118:ILE:HD11	2.34	0.42
7:a:168:ASN:ND2	7:a:171:SER:OG	2.51	0.42
7:a:342:ASP:O	7:a:346:ILE:HG13	2.18	0.42
7:a:363:MET:SD	9:c:308:VAL:HA	2.58	0.42
9:c:247:GLU:O	9:c:251:LEU:HD23	2.19	0.42
10:d:26:LEU:HA	10:d:29:VAL:HB	2.01	0.42
10:d:51:ALA:HA	10:d:54:ILE:CD1	2.49	0.42
10:d:79:LYS:NZ	10:d:121:ARG:HH12	2.17	0.42
11:f:180:GLN:HB3	11:f:219:LYS:HG2	2.00	0.42
11:f:411:ALA:HB2	11:f:440:ILE:HA	2.00	0.42
12:A:96:ALA:CB	13:B:132:TYR:HB3	2.49	0.42
12:A:236:CYS:SG	12:A:267:LYS:HB3	2.59	0.42
12:A:395:PHE:CE2	12:A:412:ALA:HA	2.53	0.42
13:B:114:GLU:O	13:B:121:ALA:HB1	2.19	0.42
13:B:334:ILE:C	13:B:337:LEU:HD23	2.45	0.42
14:C:333:SER:HA	14:C:336:MET:SD	2.59	0.42
15:D:72:PHE:O	15:D:75:ALA:HB3	2.19	0.42
15:D:274:ARG:CG	16:E:245:GLU:HB3	2.49	0.42
15:D:383:GLY:O	15:D:387:VAL:HG23	2.19	0.42
17:F:357:PRO:CB	17:F:361:ALA:HB3	2.49	0.42
21:I:232:GLU:HA	21:I:235:GLN:CG	2.44	0.42
23:K:31:ILE:HD11	23:K:158:PRO:CG	2.49	0.42
24:L:212:ILE:HD13	24:L:229:VAL:HG22	2.00	0.42
25:M:191:LYS:H	25:M:191:LYS:HG2	1.45	0.42
26:N:41:ILE:HG12	26:N:76:VAL:HG22	2.00	0.42
31:S:175:VAL:HG13	31:S:179:PHE:HE2	1.84	0.42
20:h:38:ILE:O	20:h:44:VAL:HG13	2.19	0.42
20:h:65:VAL:HG22	20:h:75:VAL:HG11	2.00	0.42
20:h:74:LEU:HD23	20:h:75:VAL:N	2.34	0.42
22:j:140:GLY:O	22:j:142:PRO:HD3	2.17	0.42
23:k:200:ILE:O	23:k:203:LYS:HG2	2.19	0.42
24:l:90:GLN:O	24:l:93:LEU:HG	2.19	0.42
25:m:55:SER:H	25:m:57:LEU:CD2	2.24	0.42
25:m:58:TYR:HE2	25:m:60:GLU:HA	1.84	0.42
25:m:81:LEU:HG	25:m:85:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:n:149:LYS:O	26:n:152:CYS:HB2	2.19	0.42
26:n:190:LEU:HD12	26:n:190:LEU:O	2.18	0.42
29:q:19:ARG:HB3	29:q:31:ASP:C	2.44	0.42
31:s:2:PHE:CD1	32:t:105:PRO:HG3	2.54	0.42
31:s:170:ARG:HA	31:s:173:ARG:HH11	1.83	0.42
31:s:191:ASP:OD1	31:s:212:LYS:HA	2.19	0.42
32:t:107:TRP:CZ3	32:t:127:MET:HE1	2.54	0.42
1:U:82:LEU:HD22	1:U:130:LEU:HA	2.01	0.42
1:U:408:LEU:HD23	1:U:423:MET:HE2	2.01	0.42
1:U:800:VAL:HB	1:U:914:LEU:HD21	2.01	0.42
2:V:83:GLU:O	2:V:83:GLU:HG3	2.19	0.42
2:V:92:ARG:HG3	2:V:114:TYR:HD2	1.84	0.42
2:V:106:ARG:O	2:V:109:ASN:HB2	2.19	0.42
2:V:194:LYS:O	2:V:194:LYS:HG2	2.18	0.42
3:W:216:GLU:CA	3:W:223:LYS:HG2	2.48	0.42
3:W:365:ILE:HG13	3:W:366:MET:N	2.34	0.42
4:X:93:LEU:O	4:X:97:LEU:HG	2.19	0.42
4:X:409:LYS:O	4:X:412:ASP:HB3	2.19	0.42
5:Y:146:ARG:HG2	5:Y:150:PHE:CE1	2.54	0.42
5:Y:311:TYR:HB3	5:Y:314:LEU:HB2	2.00	0.42
7:a:73:PRO:O	7:a:76:LEU:HB3	2.19	0.42
7:a:195:GLU:O	7:a:198:PHE:HB3	2.19	0.42
10:d:62:SER:HB3	10:d:67:ASP:O	2.19	0.42
10:d:175:ARG:HH22	10:d:198:LEU:CB	2.32	0.42
11:f:517:VAL:HA	11:f:520:LEU:HD12	2.01	0.42
12:A:236:CYS:O	12:A:270:CYS:HB2	2.20	0.42
12:A:403:ILE:HA	13:B:214:MET:CG	2.50	0.42
13:B:190:LEU:HD22	13:B:193:GLN:HG2	2.00	0.42
14:C:212:ILE:HD11	14:C:238:ALA:HA	2.01	0.42
14:C:369:TYR:HD1	14:C:372:ARG:HE	1.66	0.42
15:D:91:GLN:OE1	15:D:127:ASN:HB3	2.18	0.42
15:D:181:VAL:HG13	15:D:306:LYS:CG	2.39	0.42
19:G:125:TYR:HA	19:G:131:MET:CE	2.43	0.42
19:G:199:ILE:HG23	19:G:210:PHE:CE1	2.54	0.42
21:I:109:GLN:HA	21:I:112:THR:OG1	2.19	0.42
24:L:189:LYS:HA	24:L:192:LEU:HD21	2.00	0.42
24:L:196:ARG:HH22	24:L:238:GLU:HA	1.83	0.42
25:M:48:GLY:HA2	25:M:213:LEU:HD23	2.02	0.42
25:M:141:SER:CB	25:M:144:ASP:HB2	2.41	0.42
26:N:34:LEU:HD11	26:N:186:ARG:CZ	2.49	0.42
26:N:95:MET:CB	26:N:116:MET:HE3	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:N:96:ALA:HB1	26:N:98:ILE:HG12	2.00	0.42
27:O:13:VAL:HG22	27:O:177:VAL:HG22	2.01	0.42
27:O:212:LEU:HB2	28:P:199:THR:OG1	2.19	0.42
19:g:10:ASP:HA	19:g:15:ILE:CG1	2.49	0.42
19:g:25:VAL:O	19:g:28:ALA:HB3	2.19	0.42
19:g:74:GLU:O	19:g:226:LYS:HA	2.20	0.42
21:i:11:ILE:HG23	22:j:18:GLN:NE2	2.27	0.42
21:i:233:VAL:O	21:i:237:ILE:HG13	2.19	0.42
23:k:92:ALA:O	23:k:96:THR:HG23	2.19	0.42
24:l:146:GLN:NE2	24:l:159:MET:HE2	2.25	0.42
25:m:40:ARG:HB2	25:m:45:VAL:HG22	2.01	0.42
26:n:19:ARG:HD3	26:n:170:SER:C	2.44	0.42
28:p:138:VAL:HB	28:p:146:MET:SD	2.59	0.42
29:q:44:LEU:CD1	29:q:102:LEU:HD12	2.47	0.42
1:U:7:GLY:HA2	10:d:79:LYS:HE3	2.00	0.42
1:U:28:ASN:HA	1:U:31:VAL:HB	2.00	0.42
1:U:546:ARG:HD3	1:U:771:PHE:CD2	2.53	0.42
1:U:607:VAL:HG11	15:D:63:ASP:CB	2.48	0.42
1:U:645:ASN:HD22	1:U:645:ASN:HA	1.60	0.42
2:V:282:ASN:HA	2:V:315:LYS:HE3	1.99	0.42
2:V:359:PRO:HA	2:V:382:PHE:CD2	2.54	0.42
2:V:411:SER:HB2	2:V:447:ILE:CD1	2.49	0.42
4:X:191:THR:O	4:X:194:ARG:HB2	2.19	0.42
4:X:411:VAL:HG13	5:Y:383:LEU:HD22	2.01	0.42
6:Z:205:LEU:HD22	7:a:353:LEU:HD21	2.01	0.42
6:Z:219:LYS:O	6:Z:220:LEU:HD12	2.19	0.42
7:a:23:HIS:O	7:a:26:GLU:HG2	2.20	0.42
10:d:126:ASP:CB	10:d:133:ILE:HG21	2.46	0.42
11:f:7:ASP:CA	11:f:10:PRO:HD2	2.50	0.42
11:f:255:VAL:HG12	11:f:297:MET:SD	2.59	0.42
11:f:348:ILE:HG21	11:f:751:TYR:CG	2.30	0.42
11:f:413:SER:O	11:f:417:ILE:HG13	2.19	0.42
11:f:569:LYS:HZ3	11:f:574:GLU:HG3	1.83	0.42
11:f:617:SER:HB3	13:B:78:PHE:CD1	2.55	0.42
11:f:643:PRO:HB2	11:f:646:MET:HB3	2.00	0.42
12:A:384:GLU:HA	13:B:344:PRO:HG2	2.02	0.42
35:A:501:ATP:H5'2	13:B:343:ARG:HH12	1.84	0.42
13:B:336:THR:C	13:B:337:LEU:HD22	2.44	0.42
14:C:338:LEU:HA	14:C:378:VAL:HB	2.00	0.42
15:D:300:ASP:OD2	15:D:302:ASN:HB2	2.19	0.42
17:F:159:LEU:HD22	17:F:161:LEU:HD21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:F:264:GLY:HA3	17:F:309:THR:HG22	2.01	0.42
19:G:28:ALA:HB2	25:M:14:PHE:CE2	2.54	0.42
19:G:180:GLU:O	19:G:184:LYS:HG2	2.19	0.42
20:H:6:TYR:HB2	20:H:8:PHE:CE1	2.54	0.42
22:J:31:THR:HG22	22:J:162:GLY:C	2.44	0.42
23:K:42:THR:HG22	23:K:44:GLU:N	2.24	0.42
24:L:78:THR:O	24:L:81:ALA:HB3	2.20	0.42
25:M:106:ILE:HD12	25:M:107:PRO:CD	2.46	0.42
25:M:170:GLN:O	25:M:173:LYS:HG2	2.19	0.42
25:M:199:ILE:HD13	25:M:199:ILE:HA	1.89	0.42
30:R:15:ALA:HA	30:R:175:ASN:O	2.19	0.42
19:g:39:SER:O	19:g:167:ALA:HB1	2.18	0.42
19:g:125:TYR:CD1	19:g:131:MET:HE2	2.53	0.42
21:i:72:MET:HG2	21:i:138:GLY:CA	2.42	0.42
21:i:72:MET:HE1	21:i:105:ILE:HG23	2.01	0.42
24:l:78:THR:O	24:l:81:ALA:HB3	2.20	0.42
26:n:34:LEU:HD11	26:n:186:ARG:CZ	2.50	0.42
26:n:59:VAL:HG11	26:n:83:PHE:CZ	2.55	0.42
26:n:66:HIS:CE1	26:n:70:LEU:HD21	2.54	0.42
26:n:104:ASP:OD2	26:n:106:GLN:HB3	2.19	0.42
29:q:100:VAL:O	29:q:120:TYR:HB3	2.19	0.42
30:r:104:TRP:CD2	30:r:181:GLU:HA	2.54	0.42
31:s:123:SER:O	31:s:130:TYR:HB2	2.19	0.42
33:v:156:MET:HE2	33:v:184:HIS:CB	2.49	0.42
1:U:226:PRO:O	1:U:229:VAL:HG12	2.19	0.42
1:U:685:GLN:HG2	1:U:729:GLY:HA3	2.01	0.42
1:U:798:PRO:CB	1:U:914:LEU:HD23	2.49	0.42
2:V:62:HIS:HA	2:V:65:ARG:CB	2.45	0.42
2:V:128:ARG:CD	2:V:171:VAL:HG21	2.49	0.42
2:V:130:PHE:O	2:V:133:PRO:HG2	2.20	0.42
2:V:211:TYR:O	2:V:215:ALA:HB2	2.18	0.42
3:W:36:LYS:HA	3:W:87:ILE:CD1	2.50	0.42
3:W:362:ASN:O	3:W:366:MET:HG3	2.19	0.42
4:X:259:ILE:CD1	4:X:267:VAL:HG21	2.49	0.42
4:X:336:ILE:HD12	4:X:337:ARG:N	2.34	0.42
5:Y:81:LEU:HG	5:Y:107:LYS:HD2	2.01	0.42
5:Y:144:LEU:HA	5:Y:147:ILE:HG22	2.02	0.42
5:Y:235:ASP:OD1	5:Y:238:GLU:HB2	2.20	0.42
5:Y:259:TYR:HD1	5:Y:274:SER:CB	2.33	0.42
6:Z:7:GLN:O	6:Z:8:LYS:HB3	2.19	0.42
7:a:82:HIS:HA	7:a:85:ARG:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:251:LEU:HG	7:a:255:TRP:NE1	2.35	0.42
9:c:26:ASP:HB2	9:c:173:GLU:HA	2.02	0.42
9:c:249:LEU:O	9:c:253:LYS:HG2	2.19	0.42
10:d:16:LEU:O	10:d:19:CYS:HB2	2.20	0.42
10:d:187:GLU:C	10:d:188:LYS:HG2	2.44	0.42
11:f:403:LYS:HG3	11:f:406:GLY:CA	2.49	0.42
11:f:408:LEU:HD11	11:f:797:LEU:CD1	2.48	0.42
11:f:565:ASN:HA	11:f:776:LEU:HG	2.01	0.42
11:f:850:VAL:HB	33:v:209:LYS:NZ	2.34	0.42
12:A:66:LYS:HZ1	13:B:92:GLN:CB	2.31	0.42
12:A:265:ARG:HH12	12:A:312:ARG:HA	1.82	0.42
13:B:198:LYS:HG3	13:B:202:GLU:OE1	2.20	0.42
13:B:223:ILE:CD1	13:B:350:LYS:HE3	2.39	0.42
13:B:362:LYS:O	13:B:366:GLN:HB2	2.19	0.42
14:C:75:GLU:O	14:C:87:VAL:HG13	2.20	0.42
15:D:273:LYS:HD3	15:D:318:ASP:HA	2.00	0.42
17:F:169:ASP:HB3	17:F:172:VAL:HG23	2.00	0.42
19:G:39:SER:O	19:G:167:ALA:HB1	2.18	0.42
20:H:65:VAL:HG22	20:H:75:VAL:HG11	2.01	0.42
21:I:37:ILE:CB	21:I:44:LEU:HD21	2.50	0.42
21:I:72:MET:HE1	21:I:105:ILE:HG23	2.01	0.42
23:K:229:PHE:CZ	23:K:234:LEU:HD12	2.55	0.42
24:L:38:LEU:HD13	24:L:187:LEU:HD11	1.99	0.42
25:M:191:LYS:HD3	25:M:234:GLU:HB2	1.97	0.42
28:P:23:ALA:HB1	28:P:187:VAL:HG22	2.01	0.42
28:P:34:MET:HE1	28:P:37:THR:CG2	2.50	0.42
31:S:63:THR:O	31:S:67:ILE:HG13	2.20	0.42
31:S:114:ASP:OD1	31:S:117:GLY:N	2.52	0.42
32:T:147:GLN:HB3	32:T:148:PRO:HD3	2.01	0.42
19:g:41:ALA:N	19:g:166:THR:O	2.49	0.42
20:h:15:PRO:HA	21:i:23:TYR:CE2	2.54	0.42
21:i:49:ARG:HB2	21:i:210:LYS:HA	2.00	0.42
22:j:38:ARG:HH12	22:j:182:GLU:C	2.28	0.42
23:k:38:ILE:HG12	23:k:169:ALA:HB2	2.01	0.42
26:n:78:THR:O	26:n:81:SER:HB2	2.19	0.42
31:s:195:ILE:HG22	31:s:197:ILE:CD1	2.49	0.42
32:t:9:THR:HG21	32:t:25:ASP:OD2	2.18	0.42
32:t:27:LEU:HD12	32:t:37:ARG:HA	2.01	0.42
1:U:183:LEU:O	1:U:187:LEU:HG	2.19	0.42
1:U:401:LYS:HB3	1:U:438:GLN:NE2	2.34	0.42
2:V:381:GLN:HG3	2:V:382:PHE:CD1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:470:ARG:NE	2:V:474:LEU:HG	2.33	0.42
3:W:3:ASP:OD1	3:W:4:GLY:N	2.51	0.42
3:W:63:THR:HA	3:W:68:VAL:HG22	2.01	0.42
3:W:320:LEU:HD21	3:W:354:LEU:HD21	2.01	0.42
4:X:120:GLU:OE1	4:X:122:ARG:HB2	2.20	0.42
4:X:122:ARG:CD	4:X:125:LEU:HB2	2.44	0.42
4:X:222:GLU:HA	4:X:225:TRP:NE1	2.29	0.42
5:Y:135:GLY:O	5:Y:138:LEU:HB3	2.19	0.42
5:Y:231:LEU:HD13	5:Y:234:PRO:HG2	2.01	0.42
6:Z:25:ARG:HB3	9:c:103:GLY:HA2	2.00	0.42
6:Z:64:ASP:O	6:Z:66:SER:N	2.51	0.42
6:Z:68:TRP:HH2	6:Z:111:LEU:HD13	1.84	0.42
6:Z:206:LEU:HD23	6:Z:209:ARG:HD3	2.00	0.42
7:a:280:MET:SD	7:a:296:ILE:HG13	2.60	0.42
8:b:25:ARG:CZ	8:b:144:GLY:HA3	2.49	0.42
8:b:132:LYS:NZ	8:b:162:GLY:H	2.18	0.42
9:c:225:TRP:O	9:c:229:LEU:HD23	2.19	0.42
9:c:275:VAL:CB	15:D:121:ARG:HB3	2.49	0.42
10:d:142:TYR:CA	10:d:147:SER:HB3	2.49	0.42
10:d:221:ASN:OD1	10:d:222:TYR:N	2.52	0.42
11:f:228:LYS:HB2	13:B:59:ARG:NH2	2.34	0.42
11:f:345:PRO:CD	11:f:381:VAL:HG21	2.43	0.42
11:f:497:VAL:O	11:f:500:LEU:HB2	2.18	0.42
11:f:672:LEU:CD1	11:f:709:THR:HB	2.50	0.42
11:f:707:LEU:CD2	11:f:742:ALA:HB2	2.50	0.42
11:f:723:TYR:O	11:f:727:PHE:HB3	2.20	0.42
11:f:809:ILE:HG12	11:f:810:ILE:HG23	2.01	0.42
12:A:151:ILE:HG22	12:A:152:PRO:O	2.20	0.42
12:A:355:PHE:HB3	12:A:370:PHE:CD1	2.54	0.42
14:C:69:GLN:CB	15:D:136:SER:HA	2.49	0.42
14:C:222:LYS:O	14:C:224:ILE:HG13	2.20	0.42
16:E:93:LYS:HB3	16:E:94:PRO:HD2	2.02	0.42
16:E:101:ASP:O	16:E:105:LEU:HA	2.19	0.42
17:F:202:ILE:CD1	17:F:329:ILE:HD11	2.49	0.42
17:F:420:TYR:O	17:F:424:ILE:HG13	2.19	0.42
19:G:10:ASP:HA	19:G:15:ILE:CG1	2.49	0.42
19:G:153:LYS:NZ	19:G:168:ALA:HB2	2.34	0.42
21:I:76:VAL:HA	21:I:134:LEU:HB3	2.00	0.42
21:I:143:TYR:HB2	21:I:146:GLN:NE2	2.15	0.42
28:P:138:VAL:HB	28:P:146:MET:HE3	1.99	0.42
30:R:6:PHE:HA	30:R:124:ALA:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:T:9:THR:HG21	32:T:25:ASP:OD2	2.19	0.42
19:g:20:GLY:O	20:h:28:ALA:HB2	2.19	0.42
19:g:84:THR:C	19:g:87:SER:HG	2.26	0.42
19:g:153:LYS:NZ	19:g:168:ALA:HB2	2.34	0.42
22:j:31:THR:HG22	22:j:162:GLY:C	2.44	0.42
22:j:48:LYS:H	22:j:205:ASN:HB3	1.84	0.42
22:j:79:ASP:O	22:j:83:VAL:HG23	2.19	0.42
22:j:154:HIS:NE2	23:k:59:MET:HG3	2.35	0.42
23:k:23:GLN:O	23:k:26:TYR:HB2	2.20	0.42
23:k:91:LYS:HE2	23:k:119:LEU:CD2	2.48	0.42
25:m:129:ARG:HG3	25:m:130:PRO:O	2.20	0.42
25:m:215:TRP:HB2	25:m:227:VAL:CG1	2.45	0.42
25:m:243:LEU:HD12	25:m:244:LYS:HB3	2.01	0.42
30:r:103:GLY:O	30:r:110:GLY:HA3	2.20	0.42
1:U:221:ILE:CG2	1:U:256:ALA:HB2	2.49	0.42
1:U:366:HIS:HE2	1:U:395:ARG:HB3	1.84	0.42
2:V:225:ASP:O	2:V:228:ARG:HB2	2.19	0.42
2:V:251:LEU:O	2:V:254:LEU:HB3	2.18	0.42
2:V:302:TYR:O	2:V:303:SER:HB3	2.19	0.42
3:W:109:CYS:O	3:W:112:VAL:HG12	2.19	0.42
3:W:243:ILE:O	3:W:273:TYR:OH	2.35	0.42
3:W:262:LYS:HA	3:W:265:GLN:HG2	2.00	0.42
4:X:71:LYS:HA	4:X:74:ARG:HG3	2.02	0.42
5:Y:165:LYS:HG2	5:Y:169:GLU:OE1	2.19	0.42
5:Y:265:GLU:O	5:Y:267:ARG:HG2	2.19	0.42
5:Y:285:ASP:O	5:Y:288:PHE:CE1	2.72	0.42
7:a:290:GLN:HG2	7:a:330:ARG:HB3	2.02	0.42
8:b:187:PRO:CB	8:b:191:GLY:HA2	2.48	0.42
9:c:60:GLU:N	9:c:68:ARG:O	2.37	0.42
9:c:61:PHE:CE1	9:c:109:VAL:HG12	2.55	0.42
10:d:29:VAL:HG11	10:d:51:ALA:HB1	2.00	0.42
11:f:17:PRO:HB2	11:f:67:ASP:OD2	2.19	0.42
11:f:122:ALA:O	11:f:125:ILE:HG22	2.20	0.42
11:f:222:ASP:O	13:B:60:LEU:HD21	2.20	0.42
11:f:321:MET:SD	11:f:456:ARG:HD3	2.60	0.42
11:f:610:GLN:HB2	11:f:614:HIS:CD2	2.55	0.42
11:f:619:HIS:HA	13:B:85:MET:CE	2.49	0.42
12:A:235:ALA:HB1	12:A:269:ALA:O	2.20	0.42
12:A:323:ARG:HH12	13:B:294:ARG:HG3	1.83	0.42
15:D:144:PRO:HA	15:D:145:PRO:HD3	1.94	0.42
15:D:177:VAL:HA	15:D:180:ALA:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:E:312:ILE:O	16:E:315:ILE:HB	2.19	0.42
19:G:28:ALA:HB2	25:M:14:PHE:HE2	1.84	0.42
23:K:23:GLN:O	23:K:26:TYR:HB2	2.20	0.42
25:M:237:LYS:CE	25:M:237:LYS:CA	2.85	0.42
31:S:148:LEU:CA	28:p:149:MET:HE1	2.48	0.42
20:h:71:HIS:CD2	20:h:72:ILE:HG13	2.54	0.42
20:h:121:TYR:OH	20:h:127:VAL:HB	2.20	0.42
22:j:89:VAL:HG22	29:q:66:LEU:HD11	2.00	0.42
23:k:229:PHE:CZ	23:k:234:LEU:HD12	2.55	0.42
24:l:80:ASP:OD2	24:l:128:TYR:HA	2.20	0.42
24:l:189:LYS:HG3	24:l:193:ARG:NH1	2.28	0.42
25:m:66:LEU:CD1	25:m:212:GLU:HB3	2.50	0.42
27:o:13:VAL:HG22	27:o:177:VAL:HG22	2.01	0.42
27:o:20:ALA:O	27:o:27:ALA:N	2.53	0.42
27:o:187:ARG:HB3	27:o:188:PRO:CD	2.48	0.42
30:r:104:TRP:CE2	30:r:181:GLU:HG3	2.55	0.42
31:s:114:ASP:OD1	31:s:117:GLY:N	2.52	0.42
31:s:191:ASP:CG	31:s:212:LYS:HG3	2.44	0.42
1:U:10:SER:OG	10:d:72:GLU:O	2.38	0.42
1:U:146:LYS:HE3	1:U:148:LYS:HE3	2.02	0.42
1:U:266:GLN:HA	1:U:269:ARG:CZ	2.49	0.42
1:U:575:ASP:OD2	1:U:578:LEU:HB2	2.20	0.42
1:U:630:PRO:HA	1:U:659:CYS:SG	2.60	0.42
2:V:346:LEU:HD21	2:V:361:PHE:CD1	2.53	0.42
3:W:29:PRO:O	3:W:33:LYS:HG3	2.20	0.42
3:W:87:ILE:HD12	3:W:87:ILE:H	1.83	0.42
3:W:87:ILE:HG22	3:W:91:SER:HA	2.01	0.42
3:W:387:ASP:O	3:W:390:GLU:HB2	2.20	0.42
4:X:229:TYR:CE1	4:X:254:MET:HB2	2.54	0.42
4:X:317:PRO:HB2	4:X:318:ILE:HD12	2.00	0.42
4:X:411:VAL:HG11	5:Y:379:ARG:HG3	2.00	0.42
5:Y:45:VAL:HA	5:Y:70:LEU:HD11	2.02	0.42
8:b:4:GLU:HB2	8:b:106:LYS:O	2.19	0.42
9:c:307:VAL:CG1	10:d:240:THR:HG22	2.49	0.42
10:d:36:LEU:HD13	10:d:36:LEU:HA	1.81	0.42
10:d:51:ALA:HA	10:d:54:ILE:HG12	2.00	0.42
10:d:186:TYR:HE2	10:d:189:ILE:HG13	1.84	0.42
11:f:32:GLU:OE2	11:f:85:SER:HB2	2.19	0.42
11:f:140:LEU:CD1	11:f:144:LEU:HD23	2.46	0.42
11:f:173:LEU:HD22	12:A:402:LYS:HZ3	1.85	0.42
11:f:234:THR:HG22	11:f:238:ASN:OD1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:377:VAL:HG22	11:f:751:TYR:CE2	2.55	0.42
11:f:837:LEU:HD12	11:f:839:PRO:HG2	2.01	0.42
12:A:160:THR:HG21	12:A:256:MET:CE	2.41	0.42
14:C:56:VAL:O	14:C:60:ARG:HG2	2.19	0.42
15:D:163:MET:SD	15:D:163:MET:N	2.93	0.42
15:D:212:LYS:HZ2	15:D:212:LYS:HB2	1.85	0.42
16:E:364:GLN:O	16:E:367:PHE:HB2	2.19	0.42
18:e:49:GLU:HA	18:e:56:LEU:HD11	2.02	0.42
19:G:210:PHE:CE2	19:G:215:ILE:HG12	2.54	0.42
20:H:121:TYR:OH	20:H:127:VAL:HB	2.20	0.42
21:I:108:GLU:OE2	21:I:148:TYR:OH	2.37	0.42
21:I:135:LEU:CD1	21:I:162:THR:HG21	2.50	0.42
22:J:88:ARG:HH11	29:Q:69:MET:HG3	1.85	0.42
24:L:202:GLU:HG2	24:L:203:GLN:OE1	2.20	0.42
25:M:58:TYR:HD2	25:M:59:GLU:O	2.02	0.42
25:M:58:TYR:HE2	25:M:60:GLU:HA	1.84	0.42
26:N:149:LYS:O	26:N:152:CYS:HB2	2.19	0.42
28:P:113:ASP:N	28:P:118:LYS:O	2.52	0.42
29:Q:8:GLN:HE22	29:Q:13:VAL:HG22	1.84	0.42
31:S:191:ASP:OD1	31:S:212:LYS:HA	2.19	0.42
32:T:27:LEU:HD12	32:T:37:ARG:HA	2.01	0.42
32:T:107:TRP:CZ3	32:T:127:MET:HE1	2.55	0.42
19:g:17:SER:O	20:h:24:TYR:HB3	2.20	0.42
20:h:11:THR:O	21:i:128:ARG:HD3	2.20	0.42
20:h:34:PRO:CA	20:h:164:GLY:HA3	2.45	0.42
23:k:31:ILE:HD11	23:k:158:PRO:CG	2.49	0.42
23:k:117:SER:CB	24:l:82:ARG:HH12	2.33	0.42
27:o:122:LEU:HB3	27:o:123:PRO:HD2	2.01	0.42
28:p:34:MET:HE1	28:p:37:THR:CG2	2.50	0.42
30:r:8:PHE:CE1	30:r:13:ILE:HG12	2.54	0.42
1:U:24:LEU:HB2	1:U:59:PHE:CD2	2.55	0.42
1:U:51:ASP:HB3	1:U:54:PHE:CB	2.42	0.42
1:U:538:GLU:OE1	1:U:538:GLU:N	2.52	0.42
1:U:888:GLN:O	1:U:891:VAL:HG22	2.20	0.42
2:V:92:ARG:HH22	2:V:118:GLN:CD	2.26	0.42
3:W:254:PRO:HB2	3:W:263:TRP:CA	2.50	0.42
3:W:296:LEU:HD11	3:W:302:TYR:CE1	2.55	0.42
3:W:357:ARG:C	3:W:361:HIS:CE1	2.98	0.42
4:X:348:GLU:HG2	4:X:349:HIS:N	2.35	0.42
5:Y:112:CYS:CA	5:Y:120:ALA:HB2	2.46	0.42
5:Y:182:VAL:O	5:Y:182:VAL:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:247:LEU:O	5:Y:250:LEU:HG	2.19	0.42
5:Y:316:LEU:O	5:Y:319:MET:HB2	2.20	0.42
6:Z:68:TRP:CD1	6:Z:104:ASN:HD21	2.38	0.42
6:Z:150:PRO:CB	7:a:146:PRO:HB2	2.40	0.42
7:a:100:THR:CG2	7:a:103:LYS:HE2	2.44	0.42
7:a:211:PHE:CB	7:a:271:LYS:HE2	2.46	0.42
7:a:254:ALA:O	7:a:258:GLN:NE2	2.53	0.42
8:b:11:ASP:CB	8:b:54:LEU:HD21	2.50	0.42
8:b:18:ASN:HD21	8:b:25:ARG:NH2	2.18	0.42
9:c:58:LEU:O	9:c:69:VAL:HG23	2.20	0.42
9:c:240:HIS:O	9:c:243:SER:HB2	2.20	0.42
10:d:238:PRO:HB2	10:d:242:LEU:HD12	2.02	0.42
11:f:273:ASN:O	11:f:276:GLU:HB2	2.20	0.42
11:f:457:ASN:HD22	11:f:458:GLU:H	1.68	0.42
11:f:482:ILE:CD1	11:f:518:THR:HA	2.47	0.42
11:f:498:LEU:HD21	11:f:533:ASP:OD2	2.20	0.42
11:f:556:ARG:O	11:f:560:LEU:HD23	2.19	0.42
11:f:597:VAL:HB	11:f:635:LYS:NZ	2.34	0.42
11:f:830:LEU:CD1	11:f:859:PRO:HA	2.43	0.42
12:A:57:LYS:O	12:A:60:ASN:N	2.53	0.42
12:A:87:LEU:C	12:A:90:GLU:H	2.27	0.42
12:A:117:GLN:NE2	13:B:127:VAL:O	2.52	0.42
12:A:279:ALA:HB1	13:B:307:ARG:CD	2.49	0.42
12:A:323:ARG:NH2	12:A:326:THR:HG21	2.30	0.42
12:A:384:GLU:CG	13:B:344:PRO:HG2	2.48	0.42
12:A:423:PHE:HB3	12:A:426:THR:O	2.19	0.42
13:B:49:LEU:HD13	13:B:51:LEU:N	2.27	0.42
13:B:183:THR:OG1	13:B:241:ASN:ND2	2.53	0.42
13:B:287:ILE:HG12	13:B:329:MET:HE2	2.02	0.42
15:D:162:VAL:HG12	15:D:218:ALA:HB2	2.01	0.42
15:D:352:MET:SD	16:E:164:ILE:CG1	3.08	0.42
20:H:38:ILE:O	20:H:44:VAL:HG13	2.19	0.42
21:I:11:ILE:HG23	22:J:18:GLN:NE2	2.29	0.42
26:N:66:HIS:CE1	26:N:70:LEU:HD11	2.55	0.42
29:Q:43:LEU:HD11	29:Q:188:ILE:HD12	2.01	0.42
19:g:25:VAL:O	19:g:28:ALA:N	2.53	0.42
20:h:6:TYR:HB2	20:h:8:PHE:CE1	2.54	0.42
23:k:54:ILE:HA	23:k:59:MET:CE	2.43	0.42
23:k:126:GLU:OE1	23:k:126:GLU:N	2.50	0.42
23:k:177:ALA:O	23:k:181:LEU:HB2	2.20	0.42
25:m:144:ASP:C	25:m:147:GLN:HE22	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:n:14:LEU:HD11	26:n:101:ALA:CB	2.50	0.42
27:o:103:VAL:CG2	27:o:178:ILE:HG22	2.50	0.42
27:o:219:LEU:HB2	28:p:193:ASP:O	2.20	0.42
32:t:96:MET:HE1	32:t:106:LEU:CD1	2.36	0.42
1:U:146:LYS:HE2	1:U:148:LYS:HE3	2.01	0.42
1:U:246:TYR:HH	1:U:911:ILE:HG23	1.85	0.42
1:U:532:MET:HE1	1:U:555:VAL:HB	2.02	0.42
1:U:619:VAL:HG21	1:U:651:GLY:HA3	2.01	0.42
1:U:713:TYR:CB	1:U:734:GLN:HE21	2.32	0.42
2:V:448:GLU:OE1	2:V:461:LYS:HG2	2.20	0.42
3:W:231:ILE:HD13	3:W:247:TYR:CE1	2.53	0.42
3:W:285:ASP:O	3:W:288:HIS:HB2	2.19	0.42
3:W:401:THR:HG23	3:W:402:ILE:CD1	2.30	0.42
4:X:414:LEU:HD13	6:Z:272:LEU:CD2	2.50	0.42
5:Y:18:ARG:CG	5:Y:22:LEU:HD13	2.50	0.42
5:Y:179:ARG:C	5:Y:181:LYS:H	2.27	0.42
5:Y:205:VAL:O	14:C:377:HIS:NE2	2.31	0.42
6:Z:81:MET:O	6:Z:85:VAL:HG12	2.19	0.42
7:a:63:PHE:O	7:a:66:GLU:HB2	2.20	0.42
7:a:346:ILE:HA	7:a:349:MET:HE2	2.00	0.42
8:b:7:MET:HA	8:b:50:GLY:O	2.20	0.42
9:c:307:VAL:HG22	10:d:239:SER:OG	2.19	0.42
10:d:8:GLU:N	10:d:18:LYS:HE3	2.35	0.42
10:d:133:ILE:O	10:d:137:VAL:HG22	2.20	0.42
10:d:238:PRO:HA	10:d:241:GLU:HG2	2.02	0.42
11:f:297:MET:HG2	11:f:298:LEU:HD22	2.01	0.42
11:f:429:ILE:HG13	11:f:448:CYS:SG	2.60	0.42
11:f:529:SER:HA	11:f:574:GLU:CD	2.45	0.42
11:f:563:GLY:O	11:f:598:CYS:HB3	2.19	0.42
11:f:585:GLU:HB2	11:f:586:PRO:CD	2.43	0.42
11:f:672:LEU:HD12	11:f:709:THR:HB	2.01	0.42
11:f:776:LEU:H	11:f:776:LEU:HD12	1.84	0.42
11:f:810:ILE:HD12	11:f:854:GLY:N	2.35	0.42
12:A:95:VAL:HG11	12:A:144:ARG:HD3	2.02	0.42
13:B:136:LEU:HD13	13:B:138:PHE:CE2	2.55	0.42
13:B:219:PRO:CB	13:B:348:ASP:HB2	2.50	0.42
14:C:165:ILE:HD11	14:C:292:ILE:CG1	2.50	0.42
15:D:226:ALA:O	15:D:261:ILE:N	2.48	0.42
17:F:193:LYS:H	17:F:193:LYS:CD	2.32	0.42
17:F:402:GLU:HA	17:F:405:MET:HE3	2.01	0.42
19:G:41:ALA:O	19:G:166:THR:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:I:8:ARG:HH21	22:J:5:ARG:NH2	2.18	0.42
21:I:38:LEU:HD23	21:I:43:VAL:HG21	2.00	0.42
22:J:70:CYS:C	22:J:71:MET:HE2	2.45	0.42
24:L:26:MET:HE2	24:L:150:SER:H	1.85	0.42
24:L:43:HIS:CG	24:L:184:LEU:HD11	2.55	0.42
25:M:243:LEU:HD12	25:M:244:LYS:HB3	2.01	0.42
26:N:14:LEU:HD11	26:N:101:ALA:CB	2.50	0.42
26:N:35:THR:O	26:N:42:PHE:HA	2.20	0.42
26:N:135:ILE:O	26:N:139:VAL:HG12	2.19	0.42
28:P:138:VAL:HB	28:P:146:MET:SD	2.59	0.42
29:Q:103:LEU:HD13	29:Q:115:LEU:HD11	2.02	0.42
30:R:104:TRP:CD2	30:R:181:GLU:HA	2.54	0.42
31:S:14:ALA:HA	31:S:22:ILE:O	2.20	0.42
24:l:24:TYR:O	24:l:27:GLU:HB2	2.20	0.42
25:m:150:MET:C	25:m:151:ILE:HD12	2.45	0.42
26:n:66:HIS:CE1	26:n:70:LEU:HD11	2.55	0.42
28:p:23:ALA:HB1	28:p:187:VAL:HG22	2.01	0.42
1:U:202:VAL:HG12	1:U:205:TYR:HD2	1.85	0.42
1:U:614:VAL:O	1:U:618:ALA:HB2	2.20	0.42
1:U:649:ARG:NH1	14:C:57:ARG:HH22	2.18	0.42
1:U:757:MET:HG3	1:U:758:PRO:HD3	2.02	0.42
2:V:33:GLN:HE21	2:V:85:ALA:CA	2.28	0.42
2:V:269:LYS:HD2	2:V:295:ILE:CD1	2.50	0.42
2:V:321:ALA:HB1	18:e:6:GLN:NE2	2.35	0.42
2:V:470:ARG:CB	2:V:473:GLN:HE21	2.33	0.42
3:W:68:VAL:CG1	3:W:119:PRO:HB3	2.49	0.42
3:W:191:ARG:HA	3:W:194:LEU:HD12	2.01	0.42
3:W:281:ASN:OD1	3:W:282:GLU:N	2.52	0.42
3:W:419:LYS:HG3	3:W:419:LYS:O	2.20	0.42
4:X:70:LEU:HD22	4:X:109:LEU:HD23	2.00	0.42
5:Y:50:MET:HE3	5:Y:54:TYR:HE2	1.85	0.42
6:Z:71:ASP:OD2	6:Z:74:TYR:HB2	2.20	0.42
7:a:32:LYS:HB2	8:b:19:GLY:C	2.45	0.42
8:b:94:HIS:NE2	8:b:130:ARG:HG3	2.35	0.42
9:c:185:ASN:HB2	9:c:186:LYS:H	1.64	0.42
10:d:139:LEU:O	10:d:142:TYR:HB2	2.20	0.42
11:f:48:GLU:OE1	11:f:48:GLU:N	2.53	0.42
11:f:94:LYS:HD3	11:f:109:ILE:HB	2.02	0.42
11:f:415:GLY:N	11:f:447:ALA:HB1	2.35	0.42
11:f:471:LEU:O	11:f:471:LEU:HG	2.20	0.42
11:f:680:ARG:HD2	11:f:763:ARG:CG	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:718:ASP:CB	11:f:719:PRO:HD2	2.18	0.42
11:f:790:GLN:O	11:f:790:GLN:HG3	2.19	0.42
12:A:55:LEU:HD11	13:B:76:GLU:OE1	2.20	0.42
12:A:280:ILE:HA	12:A:295:VAL:HG12	2.02	0.42
12:A:299:MET:HE2	12:A:331:LEU:HG	2.02	0.42
13:B:87:PRO:C	13:B:88:LEU:HD22	2.45	0.42
13:B:124:SER:OG	13:B:130:GLU:HG2	2.20	0.42
13:B:288:ASP:OD1	13:B:289:ALA:N	2.53	0.42
14:C:133:PRO:HB2	14:C:226:GLU:OE1	2.19	0.42
14:C:157:GLN:NE2	14:C:316:GLU:O	2.53	0.42
14:C:185:GLY:HA3	14:C:311:ILE:HA	2.02	0.42
16:E:55:GLN:HB3	16:E:100:LEU:O	2.20	0.42
16:E:69:PHE:O	16:E:80:VAL:HA	2.19	0.42
16:E:102:MET:HE1	17:F:158:TYR:HE2	1.84	0.42
17:F:84:LYS:O	17:F:84:LYS:HD3	2.20	0.42
21:I:173:SER:HA	21:I:176:LYS:NZ	2.35	0.42
22:J:38:ARG:HH12	22:J:182:GLU:C	2.27	0.42
23:K:196:LYS:O	23:K:199:LEU:HG	2.20	0.42
23:K:200:ILE:O	23:K:203:LYS:HG2	2.19	0.42
24:L:136:GLY:HA2	24:L:215:VAL:HG11	2.01	0.42
24:L:171:TYR:CD2	24:L:194:ALA:HB2	2.55	0.42
25:M:8:ASP:CB	25:M:21:PHE:HB2	2.50	0.42
25:M:179:LEU:HD11	25:M:192:GLU:OE2	2.17	0.42
27:O:3:ILE:HG22	27:O:16:ALA:HB1	2.00	0.42
27:O:19:ARG:HD2	27:O:168:GLY:O	2.20	0.42
27:O:20:ALA:O	27:O:27:ALA:N	2.53	0.42
29:Q:85:ARG:CB	29:Q:118:MET:HE1	2.43	0.42
30:R:104:TRP:CE2	30:R:181:GLU:HG3	2.55	0.42
32:T:92:LEU:HD11	32:T:110:MET:CE	2.41	0.42
19:g:73:THR:HG22	19:g:74:GLU:N	2.33	0.42
19:g:210:PHE:CE2	19:g:215:ILE:HG12	2.54	0.42
20:h:139:TRP:HA	20:h:144:PRO:CA	2.46	0.42
21:i:135:LEU:CD1	21:i:162:THR:HG21	2.49	0.42
23:k:55:THR:H	23:k:59:MET:CE	2.32	0.42
24:l:156:CYS:HA	25:m:59:GLU:H	1.84	0.42
25:m:25:TYR:HA	25:m:28:LYS:HE3	2.00	0.42
30:r:191:ASN:OD1	30:r:192:VAL:N	2.53	0.42
31:s:63:THR:O	31:s:67:ILE:HG13	2.20	0.42
1:U:24:LEU:HD22	1:U:56:SER:HB3	2.00	0.41
1:U:219:CYS:O	1:U:222:PHE:HB2	2.20	0.41
1:U:494:TYR:O	1:U:498:LYS:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:725:MET:CE	9:c:178:THR:HB	2.49	0.41
2:V:66:GLU:HG2	2:V:205:LEU:HD23	2.02	0.41
3:W:20:TYR:O	3:W:24:VAL:HG23	2.19	0.41
3:W:212:LYS:O	3:W:212:LYS:HG3	2.20	0.41
4:X:80:ILE:HD12	4:X:81:SER:O	2.19	0.41
6:Z:12:HIS:HD1	6:Z:51:SER:HA	1.85	0.41
6:Z:17:LEU:HD22	9:c:36:LEU:HB3	2.00	0.41
6:Z:205:LEU:HD11	7:a:356:TRP:CZ3	2.55	0.41
7:a:22:TRP:CE3	7:a:25:LEU:HD23	2.55	0.41
7:a:106:SER:OG	7:a:107:SER:N	2.50	0.41
7:a:113:LEU:O	7:a:116:THR:OG1	2.29	0.41
10:d:248:GLU:O	10:d:251:ARG:HB3	2.20	0.41
11:f:39:LYS:O	11:f:43:GLN:HB3	2.18	0.41
11:f:252:ALA:HB1	11:f:256:PHE:HD2	1.85	0.41
11:f:333:LEU:HD13	11:f:385:PHE:CZ	2.55	0.41
11:f:754:LYS:HB3	33:v:213:ILE:CD1	2.50	0.41
12:A:98:CYS:SG	13:B:130:GLU:HB2	2.60	0.41
12:A:371:GLU:O	12:A:375:ARG:HG3	2.20	0.41
13:B:173:VAL:HG22	14:C:274:LEU:CD1	2.50	0.41
14:C:132:ASP:HB2	14:C:135:VAL:HB	2.01	0.41
15:D:343:LEU:O	15:D:346:SER:OG	2.34	0.41
15:D:370:ILE:HG22	15:D:371:SER:O	2.20	0.41
17:F:435:LEU:CD2	24:L:31:GLN:HB3	2.49	0.41
19:G:210:PHE:CZ	19:G:239:LEU:HD13	2.55	0.41
21:I:38:LEU:HD21	21:I:147:LEU:HG	2.01	0.41
22:J:176:TYR:HE2	23:K:57:PRO:HG2	1.84	0.41
22:J:217:LEU:HD12	22:J:217:LEU:O	2.20	0.41
23:K:38:ILE:HG12	23:K:169:ALA:HB2	2.01	0.41
24:L:24:TYR:O	24:L:27:GLU:HB2	2.20	0.41
29:Q:153:ARG:O	29:Q:156:ALA:HB3	2.20	0.41
32:T:45:VAL:CG2	32:T:49:THR:HG23	2.48	0.41
22:j:148:ASP:O	22:j:151:GLY:N	2.49	0.41
23:k:51:GLU:CA	23:k:215:ILE:HG22	2.42	0.41
23:k:70:ILE:CD1	23:k:89:ILE:HG23	2.50	0.41
23:k:101:PHE:CE2	30:r:61:ARG:HA	2.55	0.41
24:l:171:TYR:CD2	24:l:194:ALA:HB2	2.55	0.41
25:m:8:ASP:CB	25:m:21:PHE:HB2	2.50	0.41
26:n:37:ILE:HD11	26:n:43:CYS:CB	2.49	0.41
27:o:218:PRO:O	27:o:219:LEU:HD23	2.20	0.41
29:q:3:TYR:OH	29:q:5:ILE:HD13	2.20	0.41
29:q:8:GLN:HE22	29:q:13:VAL:HG22	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:q:145:ARG:HG3	29:q:146:TYR:CE1	2.55	0.41
31:s:29:LEU:O	31:s:36:HIS:HB2	2.20	0.41
1:U:8:ILE:HG13	10:d:80:CYS:SG	2.60	0.41
1:U:11:LEU:HD23	10:d:77:GLN:CG	2.50	0.41
1:U:82:LEU:HD21	1:U:130:LEU:HA	2.02	0.41
1:U:146:LYS:HG2	14:C:21:ARG:CG	2.48	0.41
1:U:221:ILE:HD12	1:U:222:PHE:CD1	2.55	0.41
1:U:237:VAL:HG13	1:U:321:GLN:HG3	2.02	0.41
1:U:567:ILE:HG23	1:U:586:VAL:HB	2.01	0.41
1:U:579:ARG:NH2	1:U:611:ASN:HB2	2.34	0.41
1:U:692:ALA:CB	1:U:733:ALA:HB1	2.48	0.41
1:U:725:MET:CE	9:c:182:GLY:C	2.82	0.41
2:V:90:GLU:O	2:V:94:VAL:HG12	2.20	0.41
2:V:210:CYS:O	2:V:214:HIS:CB	2.69	0.41
2:V:417:ILE:HG12	2:V:422:ILE:HD12	2.01	0.41
2:V:486:ILE:HB	6:Z:268:SER:HB2	2.01	0.41
3:W:33:LYS:HA	3:W:36:LYS:CG	2.50	0.41
3:W:127:THR:HG21	3:W:147:LYS:HD2	2.02	0.41
3:W:435:LEU:CD2	6:Z:236:LEU:HD21	2.50	0.41
4:X:46:LYS:O	4:X:49:SER:HB3	2.20	0.41
4:X:208:ALA:HB1	4:X:235:ALA:O	2.20	0.41
4:X:213:GLN:HA	4:X:216:ILE:HG12	2.01	0.41
5:Y:189:VAL:HG13	5:Y:189:VAL:O	2.20	0.41
5:Y:248:GLU:O	5:Y:251:HIS:HB3	2.19	0.41
6:Z:141:VAL:HG22	6:Z:156:GLU:HG2	2.00	0.41
7:a:61:GLU:CD	7:a:64:ILE:HD12	2.44	0.41
7:a:73:PRO:HG3	7:a:104:VAL:CG1	2.48	0.41
8:b:26:LEU:HD21	8:b:80:PRO:CD	2.49	0.41
9:c:100:LYS:HA	9:c:104:ARG:C	2.45	0.41
9:c:275:VAL:HG23	15:D:121:ARG:CB	2.49	0.41
11:f:828:ARG:CZ	11:f:843:SER:HB3	2.50	0.41
12:A:233:THR:OG1	12:A:271:LEU:HD12	2.20	0.41
12:A:240:VAL:HG21	12:A:274:PHE:CE1	2.53	0.41
12:A:245:LEU:O	12:A:247:GLN:HG3	2.20	0.41
12:A:333:ARG:NE	35:F:501:ATP:O2B	2.53	0.41
12:A:354:ILE:HG21	12:A:382:GLY:CA	2.49	0.41
12:A:384:GLU:HG2	13:B:344:PRO:HG2	2.01	0.41
14:C:168:PRO:HB2	14:C:290:LYS:HE2	2.02	0.41
14:C:249:ASP:HA	14:C:294:ALA:O	2.19	0.41
15:D:115:ILE:CG2	15:D:139:LEU:HD12	2.50	0.41
15:D:274:ARG:HD3	16:E:245:GLU:CB	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:D:372:GLY:HA2	15:D:375:ILE:HD13	2.01	0.41
16:E:248:SER:HA	16:E:251:ARG:HH11	1.85	0.41
17:F:286:ASP:OD2	35:F:501:ATP:O1G	2.38	0.41
17:F:317:LEU:CD1	17:F:328:VAL:HG21	2.49	0.41
23:K:51:GLU:CA	23:K:215:ILE:HG22	2.42	0.41
27:O:208:THR:C	31:s:159:GLN:HB3	2.45	0.41
29:Q:3:TYR:OH	29:Q:5:ILE:HD13	2.20	0.41
20:h:225:GLU:HA	20:h:228:ASP:HB2	2.01	0.41
21:i:28:ILE:H	21:i:28:ILE:HD12	1.85	0.41
21:i:37:ILE:CB	21:i:44:LEU:HD21	2.50	0.41
22:j:116:GLN:HE21	23:k:83:ALA:CB	2.32	0.41
24:l:43:HIS:CG	24:l:184:LEU:HD11	2.55	0.41
25:m:42:LYS:NZ	25:m:183:GLU:O	2.42	0.41
25:m:57:LEU:O	25:m:58:TYR:HB3	2.20	0.41
26:n:35:THR:O	26:n:42:PHE:HA	2.20	0.41
28:p:164:PHE:CE1	28:p:198:ARG:HD2	2.56	0.41
29:q:118:MET:HA	29:q:123:ALA:O	2.20	0.41
30:r:6:PHE:HA	30:r:124:ALA:O	2.20	0.41
31:s:30:SER:HB2	31:s:34:SER:O	2.19	0.41
32:t:92:LEU:HD11	32:t:110:MET:CE	2.41	0.41
33:v:192:ALA:C	33:v:194:ALA:H	2.27	0.41
1:U:457:ILE:H	1:U:457:ILE:HD12	1.84	0.41
1:U:703:CYS:HA	1:U:704:PRO:HD3	1.86	0.41
1:U:713:TYR:HD1	1:U:730:ALA:HA	1.85	0.41
1:U:779:LEU:HG	1:U:783:TYR:CE2	2.56	0.41
1:U:880:ASN:HB2	1:U:881:PRO:CD	2.50	0.41
2:V:80:LYS:HE2	2:V:127:THR:HA	2.02	0.41
2:V:342:ILE:CG1	2:V:368:ARG:HB2	2.39	0.41
2:V:366:ALA:CB	2:V:375:PHE:HB2	2.50	0.41
2:V:418:SER:H	5:Y:349:LYS:HG2	1.83	0.41
3:W:42:GLU:HA	3:W:45:GLU:HG3	2.02	0.41
3:W:68:VAL:HG11	3:W:115:ILE:HD11	2.02	0.41
3:W:317:TRP:HB2	3:W:358:VAL:HG11	2.01	0.41
3:W:428:TRP:HE1	6:Z:238:PRO:HB2	1.85	0.41
4:X:166:LEU:O	4:X:170:GLN:HG2	2.20	0.41
4:X:297:ARG:NH1	4:X:337:ARG:HH21	2.18	0.41
5:Y:174:TRP:CH2	14:C:330:LYS:HD3	2.55	0.41
5:Y:179:ARG:O	5:Y:182:VAL:CG2	2.65	0.41
5:Y:181:LYS:HB3	5:Y:209:THR:HG21	2.02	0.41
6:Z:12:HIS:ND1	6:Z:50:VAL:O	2.47	0.41
7:a:156:TYR:CZ	7:a:176:ALA:HA	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:276:CYS:C	7:a:280:MET:HE3	2.45	0.41
8:b:187:PRO:HB3	8:b:190:ALA:O	2.20	0.41
9:c:32:TYR:HE1	9:c:206:ASN:HD21	1.67	0.41
10:d:82:TYR:CZ	10:d:95:MET:HG3	2.55	0.41
11:f:23:GLY:O	11:f:31:LYS:HB2	2.20	0.41
11:f:168:LYS:NZ	11:f:208:LEU:HA	2.35	0.41
11:f:388:ASP:HB3	11:f:391:LEU:HB2	2.02	0.41
11:f:756:PRO:O	11:f:757:ASN:HB2	2.19	0.41
12:A:103:ASN:HA	12:A:136:GLU:CG	2.49	0.41
13:B:74:MET:HE2	13:B:74:MET:HB3	1.90	0.41
13:B:77:GLU:HA	13:B:80:ARG:HB3	2.02	0.41
15:D:99:ASN:O	15:D:100:THR:OG1	2.35	0.41
16:E:199:VAL:HG23	16:E:201:SER:N	2.20	0.41
16:E:235:ILE:CD1	16:E:277:MET:HB3	2.48	0.41
25:M:54:LEU:HB2	25:M:57:LEU:CD2	2.50	0.41
25:M:129:ARG:HG3	25:M:130:PRO:O	2.20	0.41
25:M:144:ASP:C	25:M:147:GLN:HE22	2.28	0.41
25:M:150:MET:C	25:M:151:ILE:HD12	2.45	0.41
25:M:180:GLN:O	25:M:184:MET:HG3	2.20	0.41
27:O:103:VAL:CG2	27:O:178:ILE:HG22	2.50	0.41
28:P:126:LEU:CD1	28:P:127:ILE:HG23	2.49	0.41
29:Q:118:MET:HA	29:Q:123:ALA:O	2.20	0.41
29:Q:151:ILE:HG13	29:Q:155:ARG:HB2	2.02	0.41
29:Q:164:LEU:O	29:Q:167:LEU:HB2	2.20	0.41
30:R:103:GLY:O	30:R:110:GLY:HA3	2.20	0.41
32:T:175:VAL:HA	32:T:178:TYR:HD2	1.85	0.41
21:i:25:MET:HG2	21:i:152:PRO:HG2	2.03	0.41
21:i:118:LYS:HE3	21:i:154:GLY:HA2	2.03	0.41
21:i:173:SER:HA	21:i:176:LYS:NZ	2.35	0.41
21:i:229:LYS:O	21:i:233:VAL:HG23	2.19	0.41
22:j:131:ALA:H	22:j:147:THR:HG1	1.56	0.41
24:l:139:ASP:HB2	32:t:81:HIS:CE1	2.55	0.41
25:m:137:LEU:HB2	25:m:149:TYR:HB2	2.02	0.41
29:q:151:ILE:HG13	29:q:155:ARG:HB2	2.02	0.41
1:U:38:ILE:HG22	1:U:67:VAL:HG21	2.02	0.41
1:U:138:PHE:HZ	1:U:166:THR:HG22	1.84	0.41
1:U:410:VAL:HG23	1:U:448:LEU:HD13	2.02	0.41
1:U:443:LEU:O	1:U:446:LEU:HB2	2.20	0.41
1:U:808:PRO:CG	1:U:872:GLU:HG2	2.50	0.41
2:V:359:PRO:HB3	2:V:382:PHE:HB3	2.02	0.41
2:V:464:ILE:HG23	5:Y:363:ASN:HD21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:62:SER:CB	3:W:67:LEU:HD22	2.48	0.41
3:W:117:ASP:HA	3:W:120:ILE:HG22	2.01	0.41
3:W:158:ASP:H	3:W:161:GLU:HB2	1.84	0.41
3:W:377:ARG:CG	3:W:381:LEU:HD13	2.51	0.41
4:X:258:LYS:O	4:X:261:LEU:HB3	2.19	0.41
4:X:345:VAL:O	4:X:384:VAL:HG13	2.20	0.41
5:Y:17:LEU:HD12	5:Y:146:ARG:HD3	2.01	0.41
5:Y:181:LYS:HG2	5:Y:213:LEU:CD1	2.50	0.41
5:Y:247:LEU:HA	5:Y:250:LEU:HG	2.03	0.41
6:Z:60:GLU:OE2	6:Z:65:ASP:HA	2.20	0.41
6:Z:124:ILE:HA	6:Z:135:THR:HA	2.02	0.41
7:a:154:ARG:O	7:a:158:LEU:HG	2.20	0.41
7:a:214:GLY:HA2	7:a:217:LEU:CD1	2.33	0.41
8:b:20:ASP:OD2	8:b:144:GLY:HA2	2.21	0.41
10:d:89:LEU:N	10:d:89:LEU:CD2	2.83	0.41
11:f:298:LEU:HD12	11:f:301:HIS:CE1	2.41	0.41
11:f:333:LEU:HD13	11:f:333:LEU:HA	1.89	0.41
11:f:381:VAL:HA	11:f:755:ASP:C	2.45	0.41
11:f:393:ASP:HA	11:f:396:ASN:CB	2.48	0.41
11:f:646:MET:HE1	13:B:64:LYS:HA	2.02	0.41
11:f:699:VAL:HA	11:f:703:ARG:HB3	2.02	0.41
11:f:753:ALA:O	33:v:213:ILE:HD11	2.21	0.41
12:A:208:PRO:HA	12:A:209:PRO:HD3	1.86	0.41
12:A:209:PRO:HG2	17:F:405:MET:HE1	2.02	0.41
13:B:374:LEU:HG	13:B:378:VAL:HG21	2.02	0.41
14:C:20:LEU:HD12	14:C:21:ARG:HG3	2.01	0.41
14:C:273:MET:O	14:C:276:LEU:HB2	2.20	0.41
15:D:179:GLU:O	15:D:184:PRO:HD3	2.19	0.41
15:D:259:PRO:CB	15:D:304:ASN:HB2	2.48	0.41
16:E:364:GLN:NE2	16:E:368:MET:HE2	2.32	0.41
17:F:172:VAL:CG2	17:F:267:LEU:HD12	2.51	0.41
17:F:253:GLY:N	17:F:287:GLU:OE2	2.36	0.41
17:F:435:LEU:O	17:F:435:LEU:HD23	2.21	0.41
19:G:43:ARG:HG3	19:G:149:PRO:HB2	2.03	0.41
19:G:49:VAL:HG13	19:G:218:GLY:O	2.20	0.41
19:G:197:THR:HA	19:G:200:THR:OG1	2.21	0.41
20:H:42:ASN:HD21	20:H:184:LEU:N	2.15	0.41
20:H:65:VAL:HG22	20:H:75:VAL:CG1	2.50	0.41
21:I:28:ILE:H	21:I:28:ILE:HD12	1.85	0.41
21:I:134:LEU:HD11	21:I:136:TYR:CZ	2.55	0.41
21:I:229:LYS:O	21:I:233:VAL:HG23	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:J:48:LYS:H	22:J:205:ASN:HB3	1.84	0.41
23:K:41:GLN:HA	23:K:46:VAL:HG22	2.02	0.41
23:K:70:ILE:CD1	23:K:89:ILE:HG23	2.50	0.41
23:K:212:ALA:HB2	23:K:235:GLU:HG3	2.02	0.41
24:L:26:MET:HE1	24:L:148:CYS:CB	2.35	0.41
25:M:151:ILE:HG13	25:M:157:SER:HB2	2.02	0.41
27:O:203:ARG:HD3	28:P:162:HIS:CE1	2.56	0.41
29:Q:37:LYS:HA	29:Q:43:LEU:HD23	2.02	0.41
29:Q:146:TYR:HB2	29:Q:159:LEU:CD1	2.50	0.41
31:S:30:SER:HB2	31:S:34:SER:O	2.19	0.41
31:S:195:ILE:HG22	31:S:197:ILE:CD1	2.49	0.41
19:g:210:PHE:CZ	19:g:239:LEU:HD13	2.55	0.41
22:j:91:CYS:CB	22:j:102:VAL:HG21	2.50	0.41
23:k:238:ILE:CA	23:k:241:ILE:HG22	2.44	0.41
25:m:54:LEU:HB2	25:m:57:LEU:CD2	2.50	0.41
31:s:14:ALA:HA	31:s:22:ILE:O	2.20	0.41
33:v:166:PHE:O	33:v:173:LEU:CG	2.66	0.41
33:v:212:ARG:HH11	33:v:212:ARG:CG	2.33	0.41
1:U:410:VAL:CG2	1:U:448:LEU:HD13	2.50	0.41
1:U:413:LYS:CD	1:U:780:SER:HB2	2.50	0.41
1:U:554:LEU:HA	1:U:588:MET:HE1	2.03	0.41
1:U:878:LEU:HB3	1:U:882:ALA:HB1	2.01	0.41
2:V:171:VAL:O	2:V:171:VAL:HG12	2.19	0.41
3:W:50:LEU:O	3:W:53:GLN:HB3	2.21	0.41
3:W:65:ARG:HG3	3:W:67:LEU:H	1.86	0.41
3:W:68:VAL:HA	3:W:71:VAL:CG1	2.46	0.41
3:W:191:ARG:O	3:W:194:LEU:HB2	2.21	0.41
3:W:406:VAL:HG23	3:W:406:VAL:O	2.20	0.41
4:X:172:LEU:O	4:X:175:LYS:HB2	2.20	0.41
4:X:357:SER:O	4:X:361:VAL:HG23	2.21	0.41
4:X:377:ILE:HG22	4:X:386:ILE:O	2.21	0.41
5:Y:160:ASN:HA	5:Y:163:LYS:HB2	2.02	0.41
5:Y:237:ARG:HA	5:Y:240:VAL:HG22	2.02	0.41
5:Y:283:LYS:HD3	5:Y:291:HIS:CE1	2.54	0.41
5:Y:378:ASN:O	5:Y:381:GLN:HB2	2.20	0.41
7:a:77:VAL:HG21	7:a:113:LEU:CD1	2.51	0.41
8:b:122:LYS:O	8:b:125:VAL:HG12	2.21	0.41
9:c:215:LYS:O	9:c:218:LEU:HB3	2.20	0.41
10:d:104:LEU:HG	10:d:166:PHE:CB	2.50	0.41
11:f:32:GLU:HG3	11:f:33:ARG:HH21	1.86	0.41
11:f:46:SER:HA	11:f:54:ASP:OD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:f:294:MET:SD	11:f:321:MET:HA	2.61	0.41
11:f:348:ILE:CG1	11:f:754:LYS:HD2	2.51	0.41
11:f:472:HIS:O	11:f:478:ARG:HB2	2.20	0.41
11:f:479:LEU:HD22	11:f:797:LEU:HG	2.02	0.41
11:f:552:ASP:HB3	11:f:556:ARG:HB2	2.01	0.41
13:B:73:LEU:O	13:B:77:GLU:HG2	2.21	0.41
14:C:48:GLN:O	14:C:51:GLU:HB2	2.21	0.41
14:C:144:PRO:HG2	14:C:205:HIS:ND1	2.36	0.41
14:C:165:ILE:HG23	14:C:290:LYS:HD3	2.01	0.41
15:D:203:LEU:HD22	15:D:309:MET:O	2.21	0.41
15:D:235:PHE:CD2	15:D:288:ILE:HD13	2.49	0.41
16:E:55:GLN:OE1	16:E:99:ALA:HB1	2.21	0.41
16:E:294:ARG:H	16:E:294:ARG:HG2	1.39	0.41
22:J:121:SER:OG	22:J:122:ASN:N	2.48	0.41
23:K:177:ALA:O	23:K:181:LEU:HB2	2.20	0.41
24:L:132:LEU:N	24:L:147:THR:OG1	2.53	0.41
24:L:189:LYS:HZ3	24:L:193:ARG:HH22	1.68	0.41
25:M:40:ARG:HB2	25:M:45:VAL:HG22	2.01	0.41
25:M:57:LEU:O	25:M:58:TYR:HB3	2.20	0.41
25:M:84:ALA:N	25:M:133:CYS:SG	2.94	0.41
30:R:191:ASN:OD1	30:R:192:VAL:N	2.53	0.41
19:g:17:SER:N	19:g:21:ARG:O	2.51	0.41
19:g:43:ARG:HG3	19:g:149:PRO:HB2	2.03	0.41
21:i:119:GLN:HG2	21:i:123:GLN:HG3	2.02	0.41
23:k:66:LYS:NZ	23:k:82:ILE:HD11	2.36	0.41
23:k:77:ALA:HB3	23:k:142:LEU:HB2	2.03	0.41
24:l:5:GLN:N	24:l:5:GLN:OE1	2.45	0.41
24:l:132:LEU:N	24:l:147:THR:OG1	2.53	0.41
24:l:157:ARG:NH2	25:m:58:TYR:O	2.53	0.41
25:m:58:TYR:HD2	25:m:59:GLU:O	2.02	0.41
29:q:153:ARG:O	29:q:156:ALA:HB3	2.20	0.41
32:t:12:LEU:HD23	32:t:12:LEU:HA	1.86	0.41
33:v:152:ASN:HB2	33:v:162:GLY:HA2	2.03	0.41
33:v:181:SER:OG	33:v:186:CYS:CB	2.68	0.41
1:U:231:ASP:O	1:U:234:GLU:HB3	2.21	0.41
1:U:806:CYS:SG	1:U:891:VAL:HG12	2.60	0.41
2:V:179:LYS:HE3	2:V:214:HIS:CB	2.39	0.41
2:V:340:GLY:HA2	2:V:408:ARG:CZ	2.51	0.41
2:V:494:MET:HE3	2:V:494:MET:HB3	1.77	0.41
3:W:89:LEU:HD11	3:W:93:ARG:CD	2.36	0.41
3:W:213:PHE:HA	3:W:223:LYS:HE2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:332:GLU:HA	4:X:335:LEU:HB2	2.02	0.41
5:Y:42:MET:HA	5:Y:46:ARG:NE	2.35	0.41
5:Y:45:VAL:CG2	5:Y:46:ARG:HD3	2.50	0.41
5:Y:50:MET:HE2	5:Y:74:LYS:CG	2.50	0.41
5:Y:61:LEU:HD12	5:Y:62:ASP:HB2	2.02	0.41
5:Y:143:TYR:O	5:Y:147:ILE:HG22	2.21	0.41
5:Y:213:LEU:HD23	5:Y:213:LEU:HA	1.69	0.41
5:Y:294:TYR:HB2	5:Y:298:GLU:HG2	2.03	0.41
5:Y:307:LEU:CD2	5:Y:308:LEU:HD22	2.51	0.41
5:Y:329:PHE:HB2	18:e:62:LYS:HE3	2.01	0.41
7:a:158:LEU:HD12	7:a:159:SER:N	2.35	0.41
7:a:278:MET:HE2	7:a:339:ARG:NH1	2.28	0.41
8:b:12:ASN:O	8:b:81:LYS:N	2.54	0.41
8:b:26:LEU:HD21	8:b:80:PRO:CG	2.51	0.41
8:b:33:VAL:HG11	8:b:75:LEU:HD11	2.01	0.41
9:c:123:SER:N	9:c:126:ASP:HB2	2.35	0.41
10:d:134:LYS:CA	10:d:137:VAL:HG22	2.46	0.41
10:d:189:ILE:HG13	10:d:189:ILE:H	1.75	0.41
11:f:630:ASP:OD1	11:f:666:ILE:HG13	2.21	0.41
11:f:701:ASN:ND2	11:f:705:ASN:HD21	2.19	0.41
11:f:828:ARG:HG2	11:f:846:VAL:HA	2.02	0.41
11:f:838:ARG:H	11:f:838:ARG:HG2	1.59	0.41
12:A:246:VAL:HG22	12:A:295:VAL:CG2	2.47	0.41
14:C:257:SER:HB3	14:C:300:ILE:HD12	2.02	0.41
14:C:386:ALA:O	14:C:390:VAL:HG23	2.20	0.41
15:D:274:ARG:HD3	16:E:245:GLU:HB3	2.02	0.41
16:E:97:ARG:HG3	16:E:114:GLU:OE2	2.20	0.41
16:E:138:LEU:HB2	16:E:141:GLN:OE1	2.20	0.41
16:E:221:TYR:HA	16:E:224:ASP:OD2	2.19	0.41
16:E:223:ARG:HH21	16:E:270:LEU:CD2	2.33	0.41
16:E:312:ILE:HA	16:E:315:ILE:CD1	2.41	0.41
17:F:98:ASP:OD1	17:F:98:ASP:N	2.52	0.41
17:F:416:THR:O	17:F:419:ASP:HB2	2.20	0.41
18:e:48:VAL:O	18:e:56:LEU:HG	2.21	0.41
19:G:25:VAL:O	19:G:28:ALA:HB3	2.19	0.41
19:G:25:VAL:O	19:G:28:ALA:N	2.53	0.41
19:G:217:VAL:CG1	19:G:230:LEU:HD22	2.51	0.41
20:H:225:GLU:HA	20:H:228:ASP:HB2	2.02	0.41
21:I:119:GLN:HG2	21:I:123:GLN:HG3	2.02	0.41
22:J:91:CYS:CB	22:J:102:VAL:HG21	2.50	0.41
23:K:201:ILE:O	23:K:205:VAL:HG13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:M:199:ILE:HD11	25:M:242:SER:OG	2.21	0.41
26:N:104:ASP:OD2	26:N:106:GLN:HB3	2.19	0.41
30:R:19:ARG:HB2	30:R:171:GLY:O	2.21	0.41
19:g:137:CYS:SG	19:g:138:MET:N	2.94	0.41
19:g:174:GLU:O	19:g:177:SER:OG	2.27	0.41
20:h:99:LEU:HD21	27:o:61:SER:CB	2.51	0.41
21:i:172:VAL:HG12	21:i:176:LYS:HZ2	1.84	0.41
23:k:48:LEU:O	23:k:217:LEU:HA	2.21	0.41
25:m:170:GLN:O	25:m:173:LYS:HG2	2.19	0.41
29:q:37:LYS:HA	29:q:43:LEU:HD23	2.02	0.41
30:r:15:ALA:HA	30:r:175:ASN:O	2.19	0.41
32:t:74:GLU:OE1	32:t:82:SER:HA	2.21	0.41
1:U:59:PHE:HD1	1:U:87:LEU:HD13	1.86	0.41
1:U:135:ASN:O	1:U:139:GLN:HG2	2.21	0.41
1:U:520:MET:HE3	1:U:523:SER:OG	2.20	0.41
1:U:583:MET:O	1:U:583:MET:SD	2.79	0.41
1:U:671:LEU:O	1:U:675:MET:HG2	2.20	0.41
2:V:27:PRO:C	2:V:30:PRO:HD2	2.45	0.41
2:V:263:LEU:HD12	10:d:121:ARG:CD	2.50	0.41
2:V:321:ALA:HB1	18:e:6:GLN:CD	2.46	0.41
3:W:263:TRP:CH2	3:W:295:LYS:HG3	2.56	0.41
4:X:369:ILE:HD12	4:X:369:ILE:H	1.86	0.41
4:X:417:LYS:HE2	6:Z:276:ILE:CG2	2.50	0.41
5:Y:16:ASP:HB3	5:Y:150:PHE:HZ	1.85	0.41
5:Y:191:ILE:HB	5:Y:290:PRO:HG3	2.03	0.41
5:Y:196:GLN:HA	5:Y:200:LEU:HB2	2.03	0.41
5:Y:297:ARG:HA	5:Y:300:ARG:CB	2.51	0.41
5:Y:333:GLU:CB	5:Y:336:ARG:HH21	2.33	0.41
5:Y:380:VAL:O	5:Y:384:SER:HB2	2.20	0.41
6:Z:37:GLY:HA2	6:Z:56:VAL:HG12	2.03	0.41
6:Z:52:ASN:OD1	6:Z:53:SER:N	2.51	0.41
7:a:70:ARG:O	8:b:17:ARG:HD2	2.21	0.41
7:a:130:VAL:HG22	7:a:134:THR:N	2.30	0.41
8:b:25:ARG:NH2	8:b:145:GLU:H	2.19	0.41
8:b:71:ILE:O	8:b:75:LEU:HG	2.21	0.41
8:b:101:GLN:HB3	9:c:101:GLN:OE1	2.21	0.41
9:c:98:MET:HG2	9:c:101:GLN:NE2	2.36	0.41
9:c:124:GLY:O	9:c:127:ILE:HG22	2.21	0.41
9:c:255:TYR:CE2	9:c:259:VAL:HG21	2.56	0.41
10:d:70:SER:O	10:d:73:ARG:HB3	2.20	0.41
10:d:164:THR:HA	10:d:167:ILE:CD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d:186:TYR:HE2	10:d:189:ILE:H	1.69	0.41
11:f:24:THR:CA	11:f:31:LYS:HG3	2.50	0.41
11:f:132:THR:HG21	12:A:36:TYR:HD2	1.83	0.41
11:f:235:SER:HA	11:f:238:ASN:OD1	2.20	0.41
11:f:333:LEU:HD22	11:f:385:PHE:CZ	2.55	0.41
11:f:505:MET:HG2	11:f:537:THR:HA	2.03	0.41
11:f:718:ASP:OD1	11:f:760:PHE:CD1	2.73	0.41
12:A:264:ALA:HA	12:A:270:CYS:SG	2.60	0.41
12:A:388:VAL:CG2	12:A:416:VAL:HG21	2.50	0.41
12:A:413:VAL:O	12:A:417:ILE:HG13	2.21	0.41
13:B:174:MET:SD	13:B:270:LEU:HD13	2.60	0.41
13:B:224:LEU:HD23	13:B:353:PHE:CZ	2.55	0.41
13:B:364:ILE:HG22	13:B:395:ILE:HG21	2.02	0.41
13:B:424:GLU:O	13:B:427:LEU:HB2	2.21	0.41
14:C:45:LEU:HD12	15:D:61:ILE:HG22	2.01	0.41
14:C:60:ARG:HE	15:D:75:ALA:CB	2.30	0.41
14:C:380:GLN:NE2	14:C:384:GLU:OE2	2.53	0.41
15:D:202:VAL:HG23	15:D:329:ARG:HB2	2.03	0.41
17:F:385:ALA:HA	17:F:388:THR:HG1	1.85	0.41
19:G:30:LYS:HE2	25:M:17:ASP:O	2.20	0.41
19:G:137:CYS:SG	19:G:138:MET:N	2.94	0.41
19:G:174:GLU:O	19:G:177:SER:OG	2.27	0.41
22:J:10:PHE:CE2	23:K:27:ALA:HB2	2.55	0.41
23:K:101:PHE:CZ	30:R:61:ARG:HA	2.56	0.41
25:M:230:ASP:OD1	25:M:231:ILE:N	2.54	0.41
26:N:59:VAL:HG11	26:N:83:PHE:CZ	2.55	0.41
27:O:167:LEU:HD21	31:s:35:ILE:CD1	2.47	0.41
27:O:218:PRO:O	27:O:219:LEU:HD23	2.20	0.41
28:P:183:MET:HE3	28:P:204:MET:CE	2.49	0.41
29:Q:145:ARG:HG3	29:Q:146:TYR:CE1	2.55	0.41
31:S:13:LEU:HD12	31:S:136:LYS:O	2.20	0.41
31:S:29:LEU:O	31:S:36:HIS:HB2	2.20	0.41
31:S:191:ASP:CG	31:S:212:LYS:HG3	2.44	0.41
21:i:134:LEU:N	21:i:150:SER:HG	2.09	0.41
21:i:134:LEU:HD11	21:i:136:TYR:CZ	2.55	0.41
22:j:146:GLN:HG2	22:j:154:HIS:O	2.20	0.41
22:j:217:LEU:HD12	22:j:217:LEU:O	2.20	0.41
23:k:99:HIS:CE1	23:k:105:GLU:HG3	2.54	0.41
25:m:84:ALA:N	25:m:133:CYS:SG	2.94	0.41
29:q:103:LEU:HD13	29:q:115:LEU:HD11	2.02	0.41
31:s:50:THR:HG23	31:s:111:GLY:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:59:PHE:HD1	1:U:62:LEU:HD22	1.85	0.41
1:U:111:GLN:HG2	1:U:126:ILE:HG12	2.02	0.41
1:U:592:GLY:HA3	1:U:627:PHE:HD2	1.81	0.41
1:U:728:PHE:HA	1:U:731:ILE:HG22	2.03	0.41
1:U:766:PHE:HA	1:U:776:SER:HA	2.02	0.41
2:V:321:ALA:HB1	18:e:6:GLN:OE1	2.20	0.41
3:W:42:GLU:C	3:W:45:GLU:HG3	2.45	0.41
4:X:154:LEU:HD11	4:X:173:GLU:CD	2.45	0.41
5:Y:338:ILE:HG13	5:Y:343:LEU:HD22	2.03	0.41
8:b:24:THR:CG2	8:b:26:LEU:HD13	2.51	0.41
8:b:71:ILE:H	8:b:71:ILE:HD12	1.84	0.41
11:f:92:VAL:HB	11:f:93:PRO:HD3	2.03	0.41
11:f:502:LEU:HB3	11:f:503:PRO:HD3	2.01	0.41
11:f:773:LYS:CE	11:f:773:LYS:HA	2.49	0.41
11:f:869:THR:C	11:f:871:PRO:CD	2.80	0.41
12:A:99:THR:HG22	12:A:115:VAL:HG13	2.02	0.41
12:A:306:LEU:HD23	12:A:336:ARG:HD3	2.03	0.41
12:A:334:PRO:HG3	17:F:395:GLN:HG2	2.02	0.41
13:B:107:MET:CE	13:B:151:LEU:HB3	2.48	0.41
16:E:285:LEU:HB2	16:E:290:LEU:HD11	2.03	0.41
16:E:291:ARG:CZ	16:E:294:ARG:NE	2.84	0.41
16:E:342:ASP:O	16:E:345:ASN:HB3	2.21	0.41
17:F:294:LYS:N	17:F:337:ILE:O	2.53	0.41
18:e:48:VAL:CA	18:e:52:PHE:HB2	2.46	0.41
19:G:74:GLU:O	19:G:226:LYS:HA	2.19	0.41
22:J:76:LEU:HD11	22:J:79:ASP:H	1.85	0.41
25:M:181:MET:HE3	25:M:181:MET:HB3	1.85	0.41
28:P:34:MET:SD	30:r:166:ARG:NH2	2.94	0.41
32:T:145:LEU:C	32:T:148:PRO:HD2	2.46	0.41
19:g:127:GLN:HA	20:h:128:ARG:CZ	2.51	0.41
19:g:132:ARG:NE	25:m:14:PHE:HE1	2.18	0.41
19:g:172:GLN:O	19:g:176:THR:HG23	2.21	0.41
29:q:164:LEU:O	29:q:167:LEU:HB2	2.20	0.41
30:r:19:ARG:HB2	30:r:171:GLY:O	2.21	0.41
1:U:35:TRP:CE3	1:U:70:HIS:HB2	2.41	0.41
1:U:367:THR:HG22	1:U:403:THR:HB	2.02	0.41
1:U:471:ASP:HB2	1:U:507:VAL:CG2	2.46	0.41
1:U:600:ARG:HD3	15:D:56:VAL:CG2	2.42	0.41
1:U:713:TYR:HB2	1:U:734:GLN:NE2	2.35	0.41
1:U:757:MET:CG	1:U:758:PRO:HD3	2.51	0.41
1:U:817:LEU:HD12	1:U:819:VAL:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:70:VAL:HG22	2:V:209:LYS:HZ3	1.85	0.41
2:V:88:GLY:C	2:V:118:GLN:HE21	2.29	0.41
2:V:164:GLU:OE1	2:V:164:GLU:N	2.48	0.41
2:V:200:ARG:HA	2:V:203:LEU:HB2	2.03	0.41
2:V:224:LEU:HD21	2:V:228:ARG:NH2	2.36	0.41
2:V:234:ARG:HG3	2:V:250:LEU:CD1	2.51	0.41
2:V:290:TYR:CE1	2:V:328:VAL:HA	2.56	0.41
2:V:345:ARG:HH12	2:V:357:LEU:CB	2.32	0.41
2:V:403:ILE:O	2:V:407:VAL:HG12	2.20	0.41
2:V:417:ILE:HG23	2:V:458:VAL:O	2.21	0.41
2:V:423:ALA:HB2	2:V:434:ALA:HA	2.03	0.41
2:V:453:HIS:HB2	10:d:186:TYR:OH	2.20	0.41
3:W:121:LYS:HA	3:W:124:LEU:HB2	2.02	0.41
3:W:136:ILE:HG21	3:W:140:ILE:CG1	2.51	0.41
3:W:266:ALA:HA	3:W:269:SER:OG	2.20	0.41
3:W:353:ASP:O	3:W:356:ASN:HB3	2.21	0.41
3:W:370:TYR:OH	7:a:312:MET:SD	2.57	0.41
4:X:236:PHE:HB2	4:X:250:SER:CB	2.50	0.41
4:X:266:ASP:HA	4:X:269:ALA:HB3	2.03	0.41
4:X:349:HIS:O	4:X:352:SER:HB2	2.20	0.41
5:Y:247:LEU:HA	5:Y:250:LEU:CG	2.51	0.41
7:a:74:LEU:HD22	7:a:113:LEU:HD21	2.02	0.41
7:a:96:PHE:O	7:a:100:THR:HG23	2.21	0.41
7:a:201:GLY:O	7:a:205:LEU:HB2	2.20	0.41
7:a:230:ARG:HB3	7:a:232:TRP:HD1	1.86	0.41
8:b:33:VAL:CA	8:b:36:VAL:HG22	2.50	0.41
8:b:97:LEU:O	8:b:100:ARG:HG3	2.20	0.41
9:c:33:ILE:HG13	9:c:207:TYR:HA	2.01	0.41
9:c:104:ARG:HB2	9:c:105:PRO:HD2	2.02	0.41
9:c:212:LEU:O	9:c:216:MET:HE3	2.21	0.41
9:c:250:GLU:O	9:c:253:LYS:HB2	2.21	0.41
9:c:279:ASP:N	9:c:280:PRO:HD3	2.36	0.41
10:d:172:ASP:O	10:d:175:ARG:N	2.52	0.41
10:d:238:PRO:HB2	10:d:242:LEU:HD11	2.01	0.41
11:f:247:ALA:O	11:f:248:LEU:HD22	2.21	0.41
11:f:523:GLY:O	11:f:527:VAL:HG12	2.20	0.41
11:f:530:CYS:SG	11:f:530:CYS:O	2.78	0.41
11:f:574:GLU:OE2	11:f:577:LEU:HD12	2.20	0.41
11:f:773:LYS:O	11:f:775:THR:N	2.54	0.41
11:f:813:LYS:HB3	11:f:815:HIS:CE1	2.56	0.41
11:f:871:PRO:HG3	11:f:883:ALA:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:A:59:ILE:O	12:A:63:THR:HG23	2.21	0.41
12:A:124:ASP:HB2	17:F:86:LEU:CD1	2.51	0.41
12:A:173:THR:HG22	12:A:175:SER:H	1.86	0.41
13:B:190:LEU:HB3	13:B:193:GLN:HB2	2.02	0.41
13:B:361:LYS:HD3	13:B:390:LEU:HD11	2.03	0.41
14:C:189:TYR:HE1	14:C:314:LYS:HG3	1.85	0.41
14:C:351:MET:HE1	14:C:362:VAL:HG13	2.03	0.41
15:D:266:GLU:OE1	16:E:258:MET:HB3	2.20	0.41
15:D:354:LEU:HD23	15:D:354:LEU:O	2.20	0.41
16:E:52:SER:CB	17:F:136:VAL:HB	2.51	0.41
16:E:81:VAL:CG1	16:E:105:LEU:HD13	2.51	0.41
16:E:100:LEU:HA	16:E:106:THR:O	2.20	0.41
16:E:105:LEU:HD13	16:E:105:LEU:O	2.20	0.41
16:E:153:LEU:HD12	16:E:154:THR:N	2.35	0.41
16:E:291:ARG:NH2	16:E:294:ARG:HE	2.19	0.41
17:F:254:PRO:HD3	17:F:287:GLU:HG3	2.03	0.41
18:e:62:LYS:HG2	18:e:66:LYS:HE2	2.02	0.41
18:e:63:HIS:CG	18:e:66:LYS:HE3	2.56	0.41
19:G:80:MET:HE2	19:G:87:SER:CA	2.37	0.41
19:G:193:GLN:O	19:G:197:THR:HG23	2.21	0.41
20:H:6:TYR:HB2	20:H:8:PHE:CD1	2.56	0.41
20:H:15:PRO:HA	21:I:23:TYR:CG	2.56	0.41
21:I:38:LEU:HD12	21:I:38:LEU:O	2.21	0.41
21:I:119:GLN:O	21:I:122:THR:OG1	2.23	0.41
23:K:14:THR:HB	23:K:22:PHE:CE2	2.56	0.41
23:K:48:LEU:HD22	23:K:67:ILE:CG1	2.51	0.41
23:K:91:LYS:HE2	23:K:119:LEU:CD2	2.48	0.41
24:L:4:ASN:O	24:L:7:ASP:HB2	2.21	0.41
24:L:80:ASP:OD2	24:L:128:TYR:HA	2.20	0.41
25:M:137:LEU:HB2	25:M:149:TYR:HB2	2.02	0.41
25:M:216:VAL:HG23	25:M:224:HIS:HA	2.03	0.41
26:N:12:VAL:HG13	26:N:109:GLY:CA	2.50	0.41
26:N:21:THR:HA	26:N:27:ALA:H	1.86	0.41
26:N:58:ALA:O	26:N:61:TYR:HB3	2.21	0.41
27:O:38:SER:OG	27:O:41:ILE:HB	2.20	0.41
27:O:127:MET:C	27:O:131:SER:HB3	2.46	0.41
28:P:164:PHE:CE1	28:P:198:ARG:HD2	2.56	0.41
31:S:2:PHE:CZ	32:T:105:PRO:HG3	2.56	0.41
31:S:33:PHE:CA	27:o:167:LEU:HD12	2.40	0.41
31:S:49:LYS:O	31:S:112:GLY:CA	2.69	0.41
31:S:84:THR:HG22	31:S:115:GLU:OE2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:S:174:LEU:O	31:S:178:VAL:HG22	2.21	0.41
32:T:74:GLU:OE1	32:T:82:SER:HA	2.21	0.41
19:g:41:ALA:O	19:g:166:THR:N	2.52	0.41
19:g:116:LYS:HG2	19:g:160:TYR:OH	2.21	0.41
19:g:217:VAL:CG1	19:g:230:LEU:HD22	2.51	0.41
21:i:3:ARG:HH12	23:k:11:GLY:CA	2.25	0.41
21:i:125:GLY:HA2	22:j:3:TYR:CD2	2.54	0.41
22:j:70:CYS:C	22:j:71:MET:HE2	2.45	0.41
22:j:76:LEU:HD11	22:j:79:ASP:H	1.85	0.41
23:k:196:LYS:O	23:k:199:LEU:HG	2.20	0.41
23:k:221:GLN:CB	23:k:224:GLN:HB3	2.40	0.41
25:m:70:ASP:HB3	25:m:73:VAL:CG2	2.51	0.41
25:m:71:ARG:O	25:m:223:ARG:HA	2.21	0.41
25:m:148:LEU:O	25:m:159:GLY:HA2	2.20	0.41
25:m:180:GLN:HB2	25:m:184:MET:CE	2.51	0.41
25:m:180:GLN:O	25:m:184:MET:HG3	2.20	0.41
25:m:191:LYS:HB2	25:m:238:TYR:CD2	2.56	0.41
27:o:127:MET:C	27:o:131:SER:HB3	2.46	0.41
28:p:22:ILE:CG2	28:p:188:HIS:HB2	2.51	0.41
28:p:96:TYR:CE1	28:p:99:ARG:HD3	2.56	0.41
28:p:126:LEU:CD1	28:p:127:ILE:HG23	2.49	0.41
31:s:49:LYS:O	31:s:112:GLY:CA	2.69	0.41
31:s:183:ALA:HB2	31:s:189:THR:HG21	2.01	0.41
32:t:15:LYS:HE2	32:t:121:PHE:C	2.46	0.41
32:t:175:VAL:HA	32:t:178:TYR:HD2	1.85	0.41
1:U:374:SER:HA	1:U:411:ILE:HG12	2.02	0.41
1:U:668:ALA:O	1:U:672:LEU:HG	2.20	0.41
2:V:54:LYS:CE	2:V:57:ALA:HA	2.42	0.41
2:V:231:LEU:CD1	2:V:250:LEU:HD22	2.51	0.41
2:V:345:ARG:NH1	2:V:353:LEU:HD11	2.36	0.41
2:V:375:PHE:HZ	2:V:398:LEU:HD13	1.85	0.41
2:V:419:LEU:HD23	2:V:458:VAL:HG23	2.03	0.41
3:W:38:GLY:CA	3:W:44:ILE:HG21	2.38	0.41
3:W:214:PHE:HD1	3:W:214:PHE:HA	1.76	0.41
4:X:257:CYS:O	4:X:261:LEU:HB2	2.20	0.41
6:Z:133:LEU:HD23	6:Z:134:PRO:O	2.21	0.41
7:a:15:GLY:HA2	7:a:16:PRO:HD3	1.95	0.41
7:a:217:LEU:HD23	7:a:238:TYR:HD1	1.86	0.41
8:b:171:VAL:CG1	8:b:183:LEU:HD11	2.51	0.41
10:d:52:ARG:HG3	10:d:81:TYR:HD2	1.74	0.41
10:d:108:SER:HB2	10:d:166:PHE:HD1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:d:126:ASP:OD1	10:d:130:ASN:ND2	2.52	0.41
11:f:66:LYS:HA	11:f:69:SER:HB2	2.03	0.41
11:f:190:GLU:O	11:f:190:GLU:HG3	2.21	0.41
11:f:498:LEU:HD11	11:f:533:ASP:OD2	2.21	0.41
11:f:569:LYS:CE	11:f:571:GLU:HG2	2.50	0.41
11:f:613:LEU:HD12	13:B:74:MET:CE	2.43	0.41
11:f:646:MET:HE3	13:B:64:LYS:HA	2.03	0.41
11:f:659:LEU:HD13	11:f:671:ALA:CB	2.50	0.41
11:f:707:LEU:HD23	11:f:742:ALA:CB	2.51	0.41
13:B:181:GLN:O	13:B:241:ASN:ND2	2.54	0.41
14:C:365:GLU:HG3	14:C:390:VAL:CG2	2.50	0.41
15:D:92:PHE:CE1	15:D:124:LEU:HD11	2.56	0.41
17:F:74:LYS:HE2	17:F:74:LYS:HB3	1.95	0.41
17:F:159:LEU:HD23	17:F:160:ILE:O	2.21	0.41
17:F:368:ILE:HA	17:F:371:ARG:HD2	2.02	0.41
21:I:68:LEU:HD12	21:I:69:ASN:HB2	2.03	0.41
21:I:118:LYS:HE3	21:I:154:GLY:HA2	2.03	0.41
22:J:146:GLN:HG2	22:J:154:HIS:O	2.20	0.41
23:K:66:LYS:NZ	23:K:82:ILE:HD11	2.36	0.41
24:L:93:LEU:HA	24:L:96:ARG:CB	2.44	0.41
25:M:39:ILE:HG13	25:M:40:ARG:H	1.86	0.41
29:Q:134:TYR:HA	29:Q:137:PHE:HD2	1.86	0.41
30:R:180:ARG:NH1	30:R:182:ASP:OD2	2.54	0.41
31:S:50:THR:HG23	31:S:111:GLY:O	2.21	0.41
19:g:197:THR:HA	19:g:200:THR:OG1	2.21	0.41
21:i:108:GLU:OE2	21:i:148:TYR:OH	2.37	0.41
24:l:202:GLU:HG2	24:l:203:GLN:OE1	2.20	0.41
25:m:53:VAL:O	25:m:208:ALA:HB3	2.21	0.41
26:n:58:ALA:O	26:n:61:TYR:HB3	2.21	0.41
27:o:38:SER:OG	27:o:41:ILE:HB	2.20	0.41
27:o:48:THR:HB	27:o:95:GLY:O	2.21	0.41
29:q:96:THR:HG22	29:q:98:TYR:CE1	2.53	0.41
29:q:141:SER:OG	29:q:142:ILE:HD12	2.21	0.41
30:r:64:ARG:CZ	30:r:68:LEU:HD21	2.51	0.41
31:s:174:LEU:O	31:s:178:VAL:HG22	2.21	0.41
32:t:99:ARG:CD	32:t:106:LEU:HG	2.51	0.41
1:U:149:GLN:HB2	14:C:20:LEU:HD13	2.02	0.40
1:U:371:ILE:HG13	1:U:375:PHE:CE2	2.55	0.40
1:U:645:ASN:ND2	1:U:646:PRO:HD2	2.36	0.40
3:W:143:ALA:HA	3:W:146:THR:CG2	2.51	0.40
4:X:177:TYR:CZ	4:X:185:LYS:HD3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:185:GLY:N	5:Y:213:LEU:HD11	2.35	0.40
5:Y:231:LEU:HB2	5:Y:234:PRO:CG	2.51	0.40
8:b:54:LEU:HB2	8:b:85:THR:O	2.21	0.40
8:b:86:PHE:O	8:b:90:ILE:HD12	2.21	0.40
8:b:126:LYS:HA	8:b:129:LYS:NZ	2.36	0.40
9:c:124:GLY:O	9:c:128:ASN:ND2	2.54	0.40
10:d:56:GLU:HG2	10:d:98:LEU:CD1	2.51	0.40
10:d:58:GLY:HA3	10:d:74:TYR:CE1	2.55	0.40
11:f:72:ARG:N	11:f:73:PRO:HD3	2.37	0.40
11:f:306:GLU:HG3	11:f:306:GLU:O	2.21	0.40
11:f:384:ALA:HB2	11:f:419:LEU:CD2	2.42	0.40
11:f:399:LEU:CD1	11:f:407:MET:HA	2.46	0.40
11:f:603:SER:HB2	11:f:639:LYS:NZ	2.35	0.40
11:f:683:GLU:HG2	11:f:686:LEU:CD2	2.51	0.40
12:A:134:ILE:O	12:A:134:ILE:HG22	2.21	0.40
12:A:347:ASP:OD1	12:A:347:ASP:N	2.53	0.40
13:B:373:THR:N	14:C:177:ALA:O	2.53	0.40
14:C:38:LYS:HB3	15:D:54:LEU:HD11	2.03	0.40
14:C:113:ARG:HH21	14:C:129:ASN:CA	2.34	0.40
14:C:204:ALA:HB2	14:C:211:PHE:HD1	1.85	0.40
14:C:287:LYS:HE2	14:C:287:LYS:HB3	1.80	0.40
15:D:96:VAL:CG2	15:D:102:ILE:HD11	2.47	0.40
15:D:354:LEU:C	15:D:354:LEU:CD2	2.94	0.40
16:E:115:VAL:HB	16:E:120:TYR:CZ	2.56	0.40
17:F:291:ILE:HG13	17:F:292:GLY:N	2.36	0.40
17:F:416:THR:N	17:F:419:ASP:OD2	2.54	0.40
19:G:27:TYR:CE2	25:M:16:PRO:HA	2.56	0.40
19:G:143:ILE:HD12	19:G:222:VAL:CG2	2.51	0.40
21:I:135:LEU:HD21	21:I:149:GLN:NE2	2.36	0.40
23:K:238:ILE:HA	23:K:241:ILE:CG2	2.47	0.40
25:M:110:HIS:O	25:M:114:ARG:HG2	2.21	0.40
32:T:99:ARG:CD	32:T:106:LEU:HG	2.51	0.40
19:g:79:VAL:HG13	19:g:139:ILE:HD13	2.03	0.40
21:i:75:SER:O	21:i:134:LEU:HB2	2.21	0.40
21:i:196:VAL:O	21:i:200:THR:HG23	2.21	0.40
21:i:228:LEU:O	21:i:228:LEU:HD12	2.21	0.40
22:j:94:HIS:HA	22:j:97:THR:OG1	2.21	0.40
23:k:146:VAL:HG22	23:k:151:PRO:HB3	2.04	0.40
23:k:201:ILE:O	23:k:205:VAL:HG13	2.21	0.40
24:l:26:MET:HE2	24:l:150:SER:H	1.85	0.40
25:m:189:ILE:HA	25:m:192:GLU:HB2	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:m:195:LYS:HA	25:m:198:TYR:HB3	2.03	0.40
28:p:161:ASP:O	28:p:164:PHE:HB3	2.21	0.40
29:q:146:TYR:HB2	29:q:159:LEU:CD1	2.51	0.40
29:q:161:ARG:CZ	29:q:194:ILE:HD12	2.52	0.40
29:q:161:ARG:NH1	29:q:194:ILE:HD12	2.36	0.40
31:s:13:LEU:HD12	31:s:136:LYS:O	2.20	0.40
1:U:142:LEU:HD11	1:U:165:LYS:NZ	2.36	0.40
1:U:227:GLN:O	1:U:230:SER:OG	2.31	0.40
1:U:338:HIS:NE2	1:U:342:LEU:HD11	2.36	0.40
1:U:540:GLN:HG3	9:c:68:ARG:NH2	2.36	0.40
2:V:30:PRO:HA	2:V:33:GLN:OE1	2.21	0.40
2:V:396:ILE:O	10:d:144:MET:HG3	2.22	0.40
3:W:47:LEU:O	3:W:50:LEU:N	2.53	0.40
3:W:169:LEU:HD22	3:W:189:GLN:CD	2.46	0.40
3:W:452:ILE:HD13	6:Z:101:LEU:HD12	2.03	0.40
4:X:90:ARG:NH2	4:X:125:LEU:HA	2.31	0.40
6:Z:12:HIS:HB3	6:Z:13:PRO:HD2	2.01	0.40
7:a:277:LEU:HD11	7:a:310:LEU:CD2	2.51	0.40
8:b:109:ILE:O	8:b:138:VAL:HG13	2.21	0.40
8:b:140:ILE:O	8:b:171:VAL:CG2	2.35	0.40
8:b:142:ASN:HB3	8:b:173:VAL:HB	2.03	0.40
8:b:184:ILE:HD12	8:b:188:ILE:HA	2.03	0.40
11:f:129:LEU:CD1	11:f:130:ALA:HB2	2.49	0.40
11:f:300:ARG:CB	11:f:492:SER:HA	2.40	0.40
11:f:325:GLN:O	11:f:328:SER:HB3	2.20	0.40
11:f:617:SER:HB3	13:B:78:PHE:CE1	2.56	0.40
12:A:309:PHE:CE1	17:F:250:LYS:HB3	2.56	0.40
12:A:351:ARG:HA	12:A:385:ILE:HD11	2.03	0.40
13:B:299:SER:OG	13:B:300:GLY:N	2.54	0.40
14:C:143:VAL:HG23	14:C:143:VAL:O	2.22	0.40
14:C:191:PRO:HB2	14:C:194:THR:CG2	2.51	0.40
14:C:236:VAL:HA	14:C:239:ARG:HG2	2.02	0.40
14:C:351:MET:CG	14:C:387:VAL:HG13	2.51	0.40
15:D:214:MET:HB2	15:D:214:MET:HE3	1.68	0.40
15:D:251:PHE:HD2	15:D:295:GLN:CB	2.33	0.40
15:D:255:LYS:HZ3	15:D:299:PHE:HA	1.86	0.40
16:E:126:ASP:HA	17:F:321:GLN:NE2	2.25	0.40
19:G:27:TYR:CE1	25:M:16:PRO:HA	2.57	0.40
19:G:102:LYS:HD3	19:G:108:GLU:HA	2.04	0.40
19:G:201:CYS:SG	19:G:202:LEU:N	2.94	0.40
21:I:135:LEU:HD12	21:I:164:ILE:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:L:91:GLU:O	24:L:103:LEU:HD11	2.21	0.40
27:O:190:THR:O	27:O:192:PRO:HD3	2.21	0.40
31:S:183:ALA:HB2	31:S:189:THR:HG21	2.01	0.40
32:T:165:ALA:O	32:T:169:VAL:HG23	2.22	0.40
19:g:49:VAL:HG13	19:g:218:GLY:O	2.20	0.40
20:h:65:VAL:HG22	20:h:75:VAL:CG1	2.50	0.40
21:i:135:LEU:HD21	21:i:149:GLN:NE2	2.36	0.40
25:m:39:ILE:HG13	25:m:40:ARG:H	1.86	0.40
26:n:59:VAL:HG21	26:n:83:PHE:CE1	2.56	0.40
26:n:103:TRP:NE1	26:n:108:GLY:HA2	2.36	0.40
27:o:19:ARG:HD2	27:o:168:GLY:O	2.20	0.40
27:o:190:THR:O	27:o:192:PRO:HD3	2.21	0.40
30:r:18:SER:HG	30:r:173:ALA:N	2.11	0.40
30:r:180:ARG:NH1	30:r:182:ASP:OD2	2.54	0.40
33:v:174:PHE:HZ	33:v:184:HIS:HD2	1.60	0.40
1:U:14:GLU:CG	1:U:19:LEU:HD12	2.52	0.40
1:U:20:LYS:HE2	1:U:20:LYS:HA	2.04	0.40
1:U:97:VAL:O	1:U:101:ILE:HG23	2.21	0.40
1:U:580:ARG:NH2	1:U:770:TRP:HZ3	2.10	0.40
2:V:43:THR:HA	2:V:62:HIS:CE1	2.57	0.40
3:W:82:LEU:HD23	3:W:82:LEU:O	2.20	0.40
3:W:340:VAL:HG12	3:W:341:PHE:CD2	2.55	0.40
3:W:454:ASN:ND2	6:Z:221:PRO:CD	2.83	0.40
5:Y:173:ASP:CA	14:C:334:ARG:HG2	2.44	0.40
5:Y:181:LYS:HE2	5:Y:181:LYS:HB2	1.84	0.40
6:Z:25:ARG:HD2	9:c:104:ARG:HD3	2.03	0.40
6:Z:234:PHE:O	6:Z:237:LEU:HD23	2.22	0.40
7:a:101:ARG:HG3	7:a:114:CYS:HB2	2.03	0.40
7:a:213:PHE:O	7:a:215:GLU:N	2.54	0.40
8:b:124:LEU:O	8:b:128:ALA:CB	2.67	0.40
9:c:57:MET:CE	9:c:110:GLY:HA3	2.45	0.40
9:c:265:MET:HG2	9:c:269:GLN:CB	2.51	0.40
9:c:280:PRO:O	9:c:281:LYS:HB3	2.21	0.40
10:d:75:MET:HE1	10:d:99:LEU:HD12	2.02	0.40
10:d:106:LEU:HD21	10:d:115:PHE:N	2.36	0.40
10:d:215:TRP:HB3	10:d:222:TYR:CB	2.26	0.40
11:f:231:LEU:HD22	13:B:59:ARG:CZ	2.51	0.40
11:f:569:LYS:NZ	11:f:571:GLU:OE2	2.39	0.40
11:f:763:ARG:O	11:f:763:ARG:HG2	2.21	0.40
11:f:768:LEU:HD23	11:f:769:THR:HB	2.03	0.40
12:A:49:GLU:O	12:A:52:ILE:HG22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:A:357:ILE:O	12:A:360:ARG:HG3	2.21	0.40
12:A:400:ARG:HA	13:B:210:TYR:HE1	1.87	0.40
13:B:105:THR:CG2	13:B:106:PRO:CD	2.96	0.40
14:C:222:LYS:O	14:C:222:LYS:HD3	2.22	0.40
14:C:259:LEU:HD12	14:C:262:GLY:CA	2.50	0.40
15:D:236:VAL:HG23	16:E:209:GLY:CA	2.52	0.40
15:D:409:LYS:HE3	16:E:389:VAL:HB	2.02	0.40
16:E:219:PHE:HD2	16:E:263:GLN:HB3	1.87	0.40
16:E:234:GLU:OE1	17:F:311:LEU:HD22	2.21	0.40
17:F:159:LEU:HD23	17:F:160:ILE:N	2.36	0.40
17:F:183:GLU:OE1	17:F:239:ALA:N	2.54	0.40
19:G:23:TYR:HA	19:G:26:GLU:OE2	2.22	0.40
20:H:66:GLU:CD	20:H:67:PRO:HD2	2.46	0.40
21:I:228:LEU:HD12	21:I:228:LEU:O	2.21	0.40
22:J:98:VAL:HG22	30:R:78:ALA:HB1	2.02	0.40
29:Q:101:ASN:ND2	29:Q:120:TYR:H	2.19	0.40
19:g:193:GLN:O	19:g:197:THR:HG23	2.21	0.40
21:i:33:THR:CB	21:i:165:GLY:HA3	2.51	0.40
21:i:38:LEU:O	21:i:38:LEU:HD12	2.21	0.40
21:i:123:GLN:HA	22:j:125:ARG:NH2	2.35	0.40
22:j:11:SER:N	22:j:15:HIS:O	2.54	0.40
23:k:41:GLN:HA	23:k:46:VAL:HG22	2.03	0.40
23:k:48:LEU:HD22	23:k:67:ILE:CG1	2.50	0.40
23:k:109:VAL:HG21	23:k:145:GLY:O	2.21	0.40
25:m:70:ASP:HB3	25:m:73:VAL:HB	2.04	0.40
25:m:216:VAL:HG23	25:m:224:HIS:HA	2.03	0.40
29:q:39:SER:HB2	29:q:74:GLU:OE2	2.22	0.40
31:s:84:THR:HG22	31:s:115:GLU:OE2	2.21	0.40
1:U:616:ARG:HG2	1:U:647:HIS:O	2.21	0.40
1:U:649:ARG:HH11	14:C:57:ARG:HH22	1.69	0.40
1:U:678:ASP:HA	1:U:679:PRO:HD3	1.95	0.40
2:V:33:GLN:O	2:V:37:MET:HB2	2.21	0.40
2:V:114:TYR:O	2:V:117:VAL:HB	2.22	0.40
2:V:426:LEU:O	2:V:428:LEU:HD22	2.21	0.40
3:W:12:ARG:HD2	3:W:27:ARG:NH1	2.36	0.40
3:W:380:GLN:HG3	3:W:381:LEU:CD1	2.49	0.40
5:Y:95:LEU:HD23	13:B:410:ARG:O	2.22	0.40
5:Y:231:LEU:HD12	5:Y:234:PRO:CD	2.51	0.40
6:Z:26:ILE:HD11	6:Z:35:VAL:CG2	2.51	0.40
6:Z:250:TYR:CE2	10:d:235:THR:HB	2.56	0.40
7:a:290:GLN:HG3	7:a:332:HIS:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:95:MET:HE3	9:c:99:LEU:HD21	2.02	0.40
11:f:147:SER:HB3	11:f:148:GLN:OE1	2.21	0.40
11:f:468:ASP:O	11:f:471:LEU:HD23	2.22	0.40
11:f:556:ARG:HD2	11:f:783:SER:O	2.21	0.40
12:A:82:ALA:HA	13:B:138:PHE:CZ	2.57	0.40
12:A:215:PHE:HE1	12:A:340:LYS:HB3	1.86	0.40
12:A:248:LYS:O	13:B:260:LEU:HD21	2.21	0.40
12:A:410:LEU:O	12:A:413:VAL:HG22	2.21	0.40
13:B:363:ARG:O	13:B:367:ILE:HG13	2.21	0.40
14:C:286:THR:CG2	14:C:290:LYS:HD2	2.51	0.40
15:D:95:ALA:HA	15:D:101:ALA:CB	2.50	0.40
15:D:159:LYS:HA	15:D:160:PRO:HD3	1.93	0.40
15:D:235:PHE:CE2	15:D:288:ILE:HG21	2.56	0.40
17:F:189:GLY:HA2	33:v:179:ARG:NH1	2.37	0.40
17:F:221:LYS:H	17:F:349:ASP:HB2	1.85	0.40
19:G:79:VAL:HG13	19:G:139:ILE:HD13	2.03	0.40
19:G:116:LYS:HG2	19:G:160:TYR:OH	2.21	0.40
20:H:123:GLN:HB2	21:I:128:ARG:HH21	1.87	0.40
20:H:148:GLN:O	20:H:155:TYR:CA	2.65	0.40
21:I:134:LEU:N	21:I:150:SER:HG	2.09	0.40
21:I:240:HIS:O	21:I:243:GLU:HB2	2.21	0.40
23:K:99:HIS:CE1	23:K:105:GLU:HG3	2.53	0.40
24:L:5:GLN:N	24:L:5:GLN:OE1	2.45	0.40
25:M:10:SER:HB3	25:M:13:THR:HG23	2.04	0.40
27:O:21:THR:HA	27:O:27:ALA:H	1.86	0.40
28:P:22:ILE:CG2	28:P:188:HIS:HB2	2.51	0.40
28:P:42:ILE:HD13	28:P:188:HIS:HD2	1.87	0.40
29:Q:151:ILE:HD11	29:Q:155:ARG:HB3	2.03	0.40
29:Q:161:ARG:NH1	29:Q:194:ILE:HD12	2.36	0.40
31:S:159:GLN:HB3	27:o:208:THR:C	2.45	0.40
31:S:169:ASP:O	31:S:172:MET:HB2	2.22	0.40
20:h:6:TYR:HB2	20:h:8:PHE:CD1	2.56	0.40
20:h:14:SER:HB3	20:h:15:PRO:CD	2.51	0.40
21:i:15:GLU:OE1	21:i:17:ARG:NE	2.44	0.40
23:k:212:ALA:HB2	23:k:235:GLU:HG3	2.02	0.40
24:l:4:ASN:O	24:l:7:ASP:HB2	2.21	0.40
24:l:66:VAL:O	31:s:77:HIS:NE2	2.55	0.40
25:m:41:CYS:SG	25:m:186:CYS:N	2.95	0.40
25:m:151:ILE:HG13	25:m:157:SER:CB	2.51	0.40
25:m:151:ILE:HG13	25:m:157:SER:HB2	2.02	0.40
26:n:51:ASP:O	26:n:55:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:o:37:ILE:HB	27:o:41:ILE:HG22	2.02	0.40
1:U:236:LEU:HD12	1:U:248:ILE:HG21	2.03	0.40
1:U:539:THR:HG21	1:U:545:LEU:HG	2.04	0.40
3:W:281:ASN:HA	3:W:284:SER:OG	2.21	0.40
3:W:316:ARG:HG3	3:W:318:SER:H	1.86	0.40
3:W:406:VAL:CG2	3:W:408:ARG:HH21	2.35	0.40
4:X:156:GLU:O	4:X:160:MET:HG2	2.22	0.40
4:X:306:LEU:HD12	4:X:313:LEU:HG	2.04	0.40
5:Y:20:ALA:O	5:Y:24:PHE:HB2	2.21	0.40
5:Y:88:LEU:HD12	5:Y:90:ASP:H	1.86	0.40
5:Y:147:ILE:HA	5:Y:150:PHE:CB	2.50	0.40
8:b:120:ASN:OD1	8:b:121:GLU:N	2.55	0.40
8:b:147:GLU:HG3	8:b:148:VAL:H	1.86	0.40
9:c:235:SER:O	9:c:239:LYS:HB2	2.21	0.40
10:d:75:MET:HE1	10:d:99:LEU:CD1	2.51	0.40
10:d:188:LYS:HG3	10:d:221:ASN:HD21	1.86	0.40
10:d:206:MET:O	10:d:210:ALA:HB2	2.19	0.40
11:f:300:ARG:O	11:f:300:ARG:CG	2.70	0.40
11:f:653:ALA:O	11:f:657:ILE:HG12	2.22	0.40
11:f:887:PHE:HD1	11:f:887:PHE:HA	1.79	0.40
12:A:302:LEU:O	12:A:306:LEU:CB	2.70	0.40
13:B:361:LYS:HZ1	13:B:389:ASP:N	2.19	0.40
14:C:188:LEU:HD22	14:C:315:ILE:HB	2.01	0.40
14:C:201:ARG:HD2	14:C:211:PHE:CG	2.57	0.40
15:D:241:GLY:O	15:D:244:PRO:HD2	2.22	0.40
15:D:269:ALA:O	15:D:270:ILE:HD13	2.21	0.40
15:D:415:GLU:HB3	19:G:159:TYR:CE2	2.57	0.40
19:G:190:THR:N	19:G:193:GLN:HB3	2.36	0.40
20:H:139:TRP:HA	20:H:144:PRO:CA	2.46	0.40
21:I:33:THR:CB	21:I:165:GLY:HA3	2.51	0.40
21:I:64:LYS:NZ	21:I:76:VAL:O	2.34	0.40
21:I:134:LEU:O	21:I:150:SER:OG	2.35	0.40
23:K:48:LEU:O	23:K:217:LEU:HA	2.21	0.40
25:M:41:CYS:SG	25:M:186:CYS:N	2.95	0.40
25:M:97:ASN:O	25:M:100:SER:OG	2.29	0.40
30:R:34:VAL:HG11	30:R:177:TYR:CD2	2.57	0.40
30:R:42:LEU:HD11	30:R:184:TRP:CG	2.57	0.40
31:S:148:LEU:N	28:p:149:MET:HE1	2.36	0.40
32:T:15:LYS:HE2	32:T:121:PHE:C	2.46	0.40
19:g:88:ARG:O	19:g:91:VAL:HB	2.22	0.40
19:g:102:LYS:HD3	19:g:108:GLU:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:g:105:TYR:HD1	27:o:78:THR:HG23	1.87	0.40
20:h:66:GLU:CD	20:h:67:PRO:HD2	2.46	0.40
24:l:91:GLU:O	24:l:103:LEU:HD11	2.21	0.40
24:l:101:ARG:HB2	24:l:102:PRO:HD2	2.04	0.40
24:l:225:ASP:OD1	24:l:225:ASP:N	2.55	0.40
25:m:70:ASP:HB3	25:m:73:VAL:HG23	2.04	0.40
30:r:67:GLU:HG3	30:r:72:GLU:O	2.22	0.40
31:s:169:ASP:O	31:s:172:MET:HB2	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	U	806/953 (85%)	728 (90%)	76 (9%)	2 (0%)	44 77
2	V	478/533 (90%)	410 (86%)	68 (14%)	0	100 100
3	W	454/456 (100%)	413 (91%)	40 (9%)	1 (0%)	44 77
4	X	378/422 (90%)	353 (93%)	25 (7%)	0	100 100
5	Y	376/389 (97%)	317 (84%)	56 (15%)	3 (1%)	16 53
6	Z	284/324 (88%)	246 (87%)	38 (13%)	0	100 100
7	a	371/376 (99%)	335 (90%)	35 (9%)	1 (0%)	37 71
8	b	189/377 (50%)	166 (88%)	20 (11%)	3 (2%)	8 39
9	c	278/309 (90%)	240 (86%)	36 (13%)	2 (1%)	19 56
10	d	255/349 (73%)	215 (84%)	40 (16%)	0	100 100
11	f	887/908 (98%)	719 (81%)	158 (18%)	10 (1%)	12 46
12	A	391/433 (90%)	342 (88%)	49 (12%)	0	100 100
13	B	385/432 (89%)	332 (86%)	50 (13%)	3 (1%)	16 53

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
14	C	372/398 (94%)	320 (86%)	50 (13%)	2 (0%)	25 62
15	D	378/418 (90%)	319 (84%)	51 (14%)	8 (2%)	5 33
16	E	349/403 (87%)	298 (85%)	51 (15%)	0	100 100
17	F	350/439 (80%)	308 (88%)	41 (12%)	1 (0%)	37 71
18	e	35/70 (50%)	26 (74%)	9 (26%)	0	100 100
19	G	238/245 (97%)	224 (94%)	14 (6%)	0	100 100
19	g	238/245 (97%)	223 (94%)	15 (6%)	0	100 100
20	H	230/233 (99%)	211 (92%)	19 (8%)	0	100 100
20	h	230/233 (99%)	211 (92%)	19 (8%)	0	100 100
21	I	248/260 (95%)	222 (90%)	26 (10%)	0	100 100
21	i	248/260 (95%)	222 (90%)	25 (10%)	1 (0%)	30 67
22	J	237/247 (96%)	212 (90%)	24 (10%)	1 (0%)	30 67
22	j	237/247 (96%)	212 (90%)	24 (10%)	1 (0%)	30 67
23	K	224/240 (93%)	203 (91%)	21 (9%)	0	100 100
23	k	224/240 (93%)	203 (91%)	21 (9%)	0	100 100
24	L	236/268 (88%)	207 (88%)	29 (12%)	0	100 100
24	l	236/268 (88%)	206 (87%)	30 (13%)	0	100 100
25	M	238/254 (94%)	201 (84%)	33 (14%)	4 (2%)	7 37
25	m	238/254 (94%)	210 (88%)	27 (11%)	1 (0%)	30 67
26	N	189/238 (79%)	175 (93%)	14 (7%)	0	100 100
26	n	189/238 (79%)	175 (93%)	14 (7%)	0	100 100
27	O	218/276 (79%)	208 (95%)	10 (5%)	0	100 100
27	o	218/276 (79%)	208 (95%)	10 (5%)	0	100 100
28	P	202/204 (99%)	190 (94%)	12 (6%)	0	100 100
28	p	202/204 (99%)	190 (94%)	12 (6%)	0	100 100
29	Q	197/201 (98%)	172 (87%)	25 (13%)	0	100 100
29	q	197/201 (98%)	172 (87%)	25 (13%)	0	100 100
30	R	199/262 (76%)	189 (95%)	10 (5%)	0	100 100
30	r	199/262 (76%)	189 (95%)	10 (5%)	0	100 100
31	S	211/240 (88%)	193 (92%)	18 (8%)	0	100 100
31	s	211/240 (88%)	193 (92%)	18 (8%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
32	T	213/263 (81%)	202 (95%)	11 (5%)	0	100 100
32	t	213/263 (81%)	202 (95%)	11 (5%)	0	100 100
33	v	60/213 (28%)	46 (77%)	12 (20%)	2 (3%)	3 25
All	All	13236/15064 (88%)	11758 (89%)	1432 (11%)	46 (0%)	38 71

All (46) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	W	312	MET
8	b	175	PRO
11	f	717	ALA
11	f	718	ASP
11	f	789	SER
11	f	870	THR
13	B	105	THR
13	B	106	PRO
13	B	107	MET
15	D	85	ILE
15	D	126	PRO
22	J	200	GLN
22	j	200	GLN
5	Y	211	TYR
5	Y	212	GLU
8	b	174	PRO
11	f	475	ASN
14	C	71	SER
14	C	288	ASN
15	D	125	LYS
25	M	241	GLU
33	v	208	GLU
5	Y	350	VAL
11	f	774	GLY
15	D	86	PRO
15	D	124	LEU
11	f	869	THR
15	D	299	PHE
17	F	344	ARG
25	M	205	LYS
33	v	211	GLN
1	U	10	SER
1	U	172	ASP

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Mol	Chain	Res	Type
9	c	267	PRO
11	f	755	ASP
25	M	200	VAL
25	M	233	GLU
25	m	233	GLU
11	f	383	ALA
15	D	127	ASN
21	i	64	LYS
7	a	214	GLY
9	c	266	THR
15	D	88	VAL
8	b	23	PRO
11	f	772	GLY

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	U	692/816 (85%)	685 (99%)	7 (1%)	73 81
2	V	414/459 (90%)	411 (99%)	3 (1%)	81 86
3	W	416/416 (100%)	410 (99%)	6 (1%)	62 76
4	X	327/362 (90%)	327 (100%)	0	100 100
5	Y	334/344 (97%)	330 (99%)	4 (1%)	67 79
6	Z	257/295 (87%)	256 (100%)	1 (0%)	89 91
7	a	333/336 (99%)	333 (100%)	0	100 100
8	b	167/312 (54%)	165 (99%)	2 (1%)	67 79
9	c	249/267 (93%)	244 (98%)	5 (2%)	50 68
10	d	231/293 (79%)	223 (96%)	8 (4%)	31 53
11	f	745/763 (98%)	729 (98%)	16 (2%)	48 66
12	A	332/372 (89%)	330 (99%)	2 (1%)	84 88
13	B	338/379 (89%)	333 (98%)	5 (2%)	60 75
14	C	321/346 (93%)	313 (98%)	8 (2%)	42 62

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
15	D	333/366 (91%)	327 (98%)	6 (2%)	54 71
16	E	306/353 (87%)	304 (99%)	2 (1%)	81 86
17	F	301/379 (79%)	296 (98%)	5 (2%)	56 72
18	e	37/63 (59%)	34 (92%)	3 (8%)	9 31
19	G	193/209 (92%)	193 (100%)	0	100 100
19	g	193/209 (92%)	193 (100%)	0	100 100
20	H	164/190 (86%)	164 (100%)	0	100 100
20	h	164/190 (86%)	164 (100%)	0	100 100
21	I	193/220 (88%)	193 (100%)	0	100 100
21	i	193/220 (88%)	193 (100%)	0	100 100
22	J	152/210 (72%)	152 (100%)	0	100 100
22	j	152/210 (72%)	152 (100%)	0	100 100
23	K	186/202 (92%)	186 (100%)	0	100 100
23	k	186/202 (92%)	186 (100%)	0	100 100
24	L	198/229 (86%)	198 (100%)	0	100 100
24	l	198/229 (86%)	198 (100%)	0	100 100
25	M	192/211 (91%)	180 (94%)	12 (6%)	15 38
25	m	192/211 (91%)	192 (100%)	0	100 100
26	N	148/180 (82%)	147 (99%)	1 (1%)	81 86
26	n	148/180 (82%)	148 (100%)	0	100 100
27	O	177/227 (78%)	177 (100%)	0	100 100
27	o	177/227 (78%)	177 (100%)	0	100 100
28	P	172/173 (99%)	172 (100%)	0	100 100
28	p	172/173 (99%)	172 (100%)	0	100 100
29	Q	164/171 (96%)	163 (99%)	1 (1%)	84 88
29	q	164/171 (96%)	163 (99%)	1 (1%)	84 88
30	R	153/201 (76%)	153 (100%)	0	100 100
30	r	153/201 (76%)	153 (100%)	0	100 100
31	S	174/198 (88%)	174 (100%)	0	100 100
31	s	174/198 (88%)	174 (100%)	0	100 100
32	T	175/214 (82%)	175 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
32	t	175/214 (82%)	175 (100%)	0	100 100
33	v	53/184 (29%)	37 (70%)	16 (30%)	0 2
All	All	11068/12775 (87%)	10954 (99%)	114 (1%)	71 81

All (114) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	U	8	ILE
1	U	9	ILE
1	U	580	ARG
1	U	583	MET
1	U	645	ASN
1	U	688	LEU
1	U	775	LEU
2	V	196	SER
2	V	197	THR
2	V	494	MET
3	W	89	LEU
3	W	312	MET
3	W	313	GLU
3	W	314	LEU
3	W	315	MET
3	W	454	ASN
5	Y	95	LEU
5	Y	179	ARG
5	Y	210	SER
5	Y	211	TYR
6	Z	220	LEU
8	b	171	VAL
8	b	172	THR
9	c	75	MET
9	c	181	LEU
9	c	184	LEU
9	c	186	LYS
9	c	266	THR
10	d	36	LEU
10	d	42	LYS
10	d	79	LYS
10	d	80	CYS
10	d	88	GLN
10	d	89	LEU

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Mol	Chain	Res	Type
10	d	122	LEU
10	d	189	ILE
11	f	63	LEU
11	f	106	LEU
11	f	300	ARG
11	f	333	LEU
11	f	348	ILE
11	f	385	PHE
11	f	530	CYS
11	f	720	GLU
11	f	754	LYS
11	f	773	LYS
11	f	786	GLN
11	f	787	LEU
11	f	807	ARG
11	f	808	ASN
11	f	838	ARG
11	f	840	LEU
12	A	373	LEU
12	A	403	ILE
13	B	105	THR
13	B	116	ILE
13	B	117	ASP
13	B	125	THR
13	B	298	ASN
14	C	69	GLN
14	C	109	THR
14	C	125	LYS
14	C	127	LEU
14	C	137	LEU
14	C	151	ILE
14	C	210	THR
14	C	287	LYS
15	D	85	ILE
15	D	125	LYS
15	D	127	ASN
15	D	214	MET
15	D	352	MET
15	D	353	ASN
16	E	264	MET
16	E	294	ARG
17	F	192	ASP

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Mol	Chain	Res	Type
17	F	233	LYS
17	F	234	THR
17	F	235	LEU
17	F	371	ARG
18	e	67	MET
18	e	68	GLU
18	e	69	THR
25	M	191	LYS
25	M	195	LYS
25	M	200	VAL
25	M	201	HIS
25	M	204	VAL
25	M	206	ASP
25	M	209	PHE
25	M	210	GLU
25	M	211	LEU
25	M	212	GLU
25	M	237	LYS
25	M	240	LYS
26	N	40	ARG
29	Q	102	LEU
29	q	102	LEU
33	v	160	LYS
33	v	161	VAL
33	v	163	LEU
33	v	164	THR
33	v	166	PHE
33	v	179	ARG
33	v	182	ASP
33	v	183	LYS
33	v	184	HIS
33	v	186	CYS
33	v	201	GLU
33	v	204	VAL
33	v	205	VAL
33	v	211	GLN
33	v	212	ARG
33	v	213	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (224) such sidechains are listed below:

Mol	Chain	Res	Type
1	U	18	GLN
1	U	70	HIS
1	U	207	ASN
1	U	355	ASN
1	U	415	HIS
1	U	491	GLN
1	U	541	HIS
1	U	595	ASN
1	U	645	ASN
1	U	665	ASN
1	U	685	GLN
1	U	734	GLN
1	U	742	HIS
1	U	743	ASN
1	U	749	GLN
1	U	756	HIS
1	U	768	GLN
1	U	805	ASN
1	U	876	GLN
2	V	33	GLN
2	V	124	ASN
2	V	247	GLN
2	V	318	GLN
2	V	319	HIS
2	V	401	ASN
2	V	473	GLN
3	W	86	ASN
3	W	106	GLN
3	W	203	GLN
3	W	235	GLN
3	W	265	GLN
3	W	361	HIS
3	W	362	ASN
3	W	380	GLN
3	W	422	ASN
3	W	454	ASN
3	W	456	GLN
4	X	170	GLN
4	X	198	ASN
4	X	213	GLN
4	X	292	GLN
4	X	296	ASN
4	X	329	ASN

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Mol	Chain	Res	Type
4	X	334	ASN
4	X	406	ASN
5	Y	48	ASN
5	Y	77	ASN
5	Y	136	HIS
5	Y	344	HIS
5	Y	363	ASN
5	Y	367	GLN
5	Y	378	ASN
6	Z	32	GLN
6	Z	96	HIS
6	Z	102	HIS
6	Z	193	ASN
6	Z	202	ASN
6	Z	229	GLN
6	Z	256	GLN
7	a	12	GLN
7	a	23	HIS
7	a	46	GLN
7	a	129	GLN
7	a	152	HIS
7	a	169	HIS
7	a	231	GLN
7	a	258	GLN
7	a	288	HIS
7	a	369	HIS
7	a	370	GLN
9	c	92	GLN
9	c	128	ASN
9	c	183	HIS
9	c	197	ASN
9	c	221	HIS
9	c	254	ASN
9	c	256	ASN
9	c	298	GLN
10	d	60	GLN
10	d	88	GLN
10	d	102	ASN
10	d	116	HIS
11	f	112	ASN
11	f	171	GLN
11	f	213	GLN

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Mol	Chain	Res	Type
11	f	291	GLN
11	f	396	ASN
11	f	457	ASN
11	f	565	ASN
11	f	610	GLN
11	f	611	GLN
11	f	614	HIS
11	f	619	HIS
11	f	715	HIS
11	f	786	GLN
11	f	808	ASN
11	f	815	HIS
11	f	855	GLN
11	f	876	HIS
12	A	44	GLN
12	A	53	GLN
12	A	85	GLN
12	A	304	ASN
12	A	305	GLN
12	A	314	ASN
12	A	353	HIS
13	B	193	GLN
13	B	241	ASN
13	B	277	HIS
13	B	298	ASN
13	B	332	ASN
14	C	64	GLN
14	C	67	GLN
14	C	124	HIS
14	C	157	GLN
14	C	182	GLN
14	C	206	HIS
14	C	270	GLN
14	C	278	ASN
14	C	332	HIS
14	C	380	GLN
14	C	392	GLN
15	D	57	GLN
15	D	83	GLN
15	D	187	HIS
15	D	257	ASN
15	D	295	GLN

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Mol	Chain	Res	Type
15	D	353	ASN
16	E	45	ASN
16	E	225	HIS
16	E	263	GLN
16	E	271	HIS
16	E	359	HIS
16	E	364	GLN
17	F	83	ASN
17	F	184	GLN
17	F	196	GLN
17	F	255	GLN
17	F	315	ASN
17	F	321	GLN
17	F	417	HIS
18	e	6	GLN
19	G	68	HIS
19	G	123	GLN
20	H	88	HIS
20	H	102	GLN
20	H	148	GLN
20	H	166	ASN
20	H	169	ASN
21	I	119	GLN
21	I	123	GLN
21	I	149	GLN
21	I	198	ASN
21	I	235	GLN
22	J	18	GLN
22	J	92	GLN
22	J	116	GLN
22	J	175	ASN
22	J	200	GLN
23	K	214	ASN
23	K	221	GLN
23	K	225	ASN
24	L	146	GLN
24	L	152	ASN
24	L	166	GLN
26	N	7	GLN
26	N	28	ASN
26	N	66	HIS
26	N	154	GLN

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Mol	Chain	Res	Type
29	Q	55	GLN
29	Q	65	GLN
29	Q	99	HIS
29	Q	101	ASN
29	Q	132	HIS
29	Q	193	ASN
30	R	10	HIS
30	R	38	ASN
30	R	85	ASN
31	S	163	HIS
32	T	2	GLN
32	T	61	GLN
32	T	65	GLN
32	T	81	HIS
19	g	68	HIS
20	h	21	GLN
20	h	88	HIS
20	h	102	GLN
20	h	148	GLN
20	h	166	ASN
20	h	169	ASN
21	i	30	HIS
21	i	119	GLN
21	i	123	GLN
21	i	149	GLN
21	i	198	ASN
21	i	235	GLN
22	j	18	GLN
22	j	116	GLN
22	j	175	ASN
23	k	214	ASN
23	k	225	ASN
24	l	146	GLN
24	l	152	ASN
26	n	28	ASN
26	n	66	HIS
27	o	165	ASN
29	q	61	GLN
29	q	99	HIS
29	q	101	ASN
29	q	132	HIS
29	q	193	ASN

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Mol	Chain	Res	Type
30	r	10	HIS
30	r	38	ASN
30	r	85	ASN
31	s	79	ASN
31	s	163	HIS
32	t	2	GLN
32	t	61	GLN
32	t	65	GLN
33	v	152	ASN
33	v	178	HIS
33	v	184	HIS
33	v	202	ASN
33	v	211	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 9 ligands modelled in this entry, 4 are monoatomic - leaving 5 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	$\#\|Z\| > 2$
37	ADP	E	401	-	24,29,29	0.96	1 (4%)	29,45,45	1.49	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
35	ATP	F	501	36	26,33,33	0.92	1 (3%)	31,52,52	1.51	4 (12%)
35	ATP	D	501	36	26,33,33	0.93	1 (3%)	31,52,52	1.61	5 (16%)
37	ADP	B	501	-	24,29,29	0.95	1 (4%)	29,45,45	1.47	5 (17%)
35	ATP	A	501	36	26,33,33	0.94	1 (3%)	31,52,52	1.61	5 (16%)

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
37	ADP	E	401	-	-	4/12/32/32	0/3/3/3
35	ATP	F	501	36	-	11/18/38/38	0/3/3/3
35	ATP	D	501	36	-	7/18/38/38	0/3/3/3
37	ADP	B	501	-	-	2/12/32/32	0/3/3/3
35	ATP	A	501	36	-	3/18/38/38	0/3/3/3

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	A	501	ATP	C5-C4	2.52	1.47	1.40
35	D	501	ATP	C5-C4	2.48	1.47	1.40
37	E	401	ADP	C5-C4	2.47	1.47	1.40
37	B	501	ADP	C5-C4	2.42	1.47	1.40
35	F	501	ATP	C5-C4	2.40	1.47	1.40

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	F	501	ATP	PB-O3B-PG	-4.28	118.14	132.83
37	B	501	ADP	C3'-C2'-C1'	3.63	106.44	100.98
35	A	501	ATP	PA-O3A-PB	-3.60	120.47	132.83
35	D	501	ATP	PA-O3A-PB	-3.60	120.48	132.83
35	D	501	ATP	PB-O3B-PG	-3.59	120.50	132.83
35	A	501	ATP	PB-O3B-PG	-3.59	120.50	132.83
37	E	401	ADP	PA-O3A-PB	-3.59	120.52	132.83
37	B	501	ADP	PA-O3A-PB	-3.52	120.74	132.83
37	E	401	ADP	C3'-C2'-C1'	3.45	106.17	100.98
35	A	501	ATP	C3'-C2'-C1'	3.42	106.13	100.98
35	D	501	ATP	C3'-C2'-C1'	3.42	106.13	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	A	501	ATP	N3-C2-N1	-3.18	123.70	128.68
35	D	501	ATP	N3-C2-N1	-3.17	123.73	128.68
37	E	401	ADP	N3-C2-N1	-3.17	123.73	128.68
35	F	501	ATP	N3-C2-N1	-3.16	123.73	128.68
37	B	501	ADP	N3-C2-N1	-3.05	123.92	128.68
35	F	501	ATP	C4-C5-N7	-2.80	106.48	109.40
35	A	501	ATP	C4-C5-N7	-2.73	106.55	109.40
35	D	501	ATP	C4-C5-N7	-2.66	106.62	109.40
37	E	401	ADP	C4-C5-N7	-2.65	106.64	109.40
37	B	501	ADP	C4-C5-N7	-2.60	106.69	109.40
35	F	501	ATP	C3'-C2'-C1'	2.54	104.80	100.98
37	B	501	ADP	O3B-PB-O2B	2.00	115.29	107.64

There are no chirality outliers.

All (27) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
35	D	501	ATP	PB-O3B-PG-O2G
35	D	501	ATP	C5'-O5'-PA-O1A
35	D	501	ATP	C5'-O5'-PA-O2A
35	D	501	ATP	C3'-C4'-C5'-O5'
35	F	501	ATP	PB-O3B-PG-O2G
35	F	501	ATP	PB-O3B-PG-O3G
35	F	501	ATP	PB-O3A-PA-O5'
35	F	501	ATP	C5'-O5'-PA-O1A
35	F	501	ATP	C5'-O5'-PA-O2A
37	B	501	ADP	O4'-C4'-C5'-O5'
37	E	401	ADP	O4'-C4'-C5'-O5'
37	E	401	ADP	C3'-C4'-C5'-O5'
35	D	501	ATP	O4'-C4'-C5'-O5'
37	B	501	ADP	C3'-C4'-C5'-O5'
35	A	501	ATP	O4'-C4'-C5'-O5'
35	D	501	ATP	C4'-C5'-O5'-PA
35	A	501	ATP	C3'-C4'-C5'-O5'
37	E	401	ADP	PB-O3A-PA-O2A
35	F	501	ATP	C4'-C5'-O5'-PA
35	D	501	ATP	C5'-O5'-PA-O3A
35	F	501	ATP	C5'-O5'-PA-O3A
35	F	501	ATP	C3'-C4'-C5'-O5'
35	A	501	ATP	PA-O3A-PB-O1B
35	F	501	ATP	PA-O3A-PB-O1B
35	F	501	ATP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
35	F	501	ATP	PB-O3A-PA-O1A
37	E	401	ADP	PB-O3A-PA-O1A

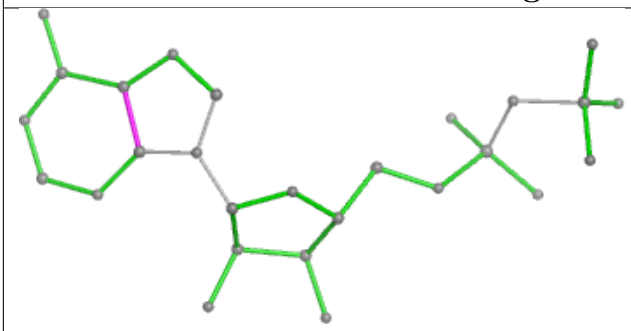
There are no ring outliers.

5 monomers are involved in 48 short contacts:

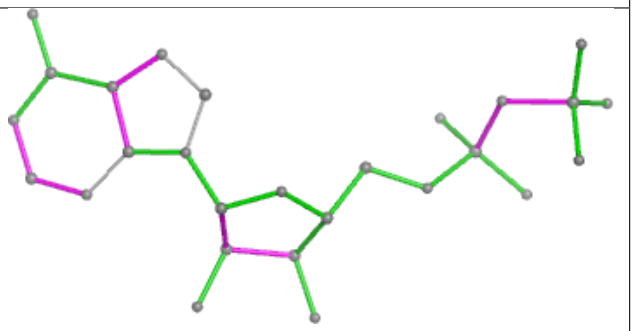
Mol	Chain	Res	Type	Clashes	Symm-Clashes
37	E	401	ADP	13	0
35	F	501	ATP	6	0
35	D	501	ATP	3	0
37	B	501	ADP	12	0
35	A	501	ATP	14	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

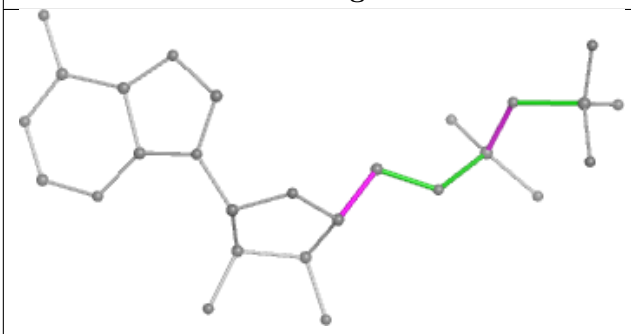
Ligand ADP E 401



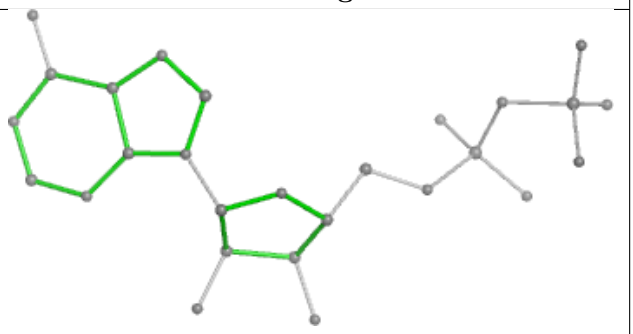
Bond lengths



Bond angles

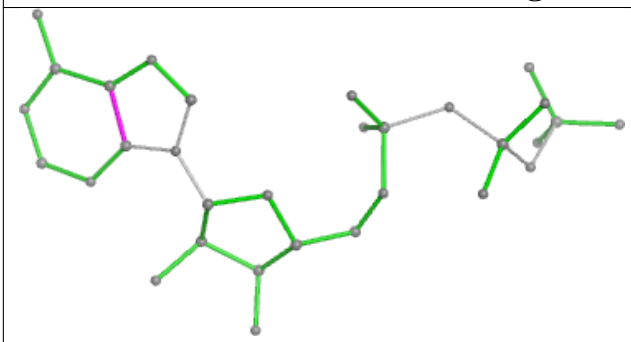


Torsions

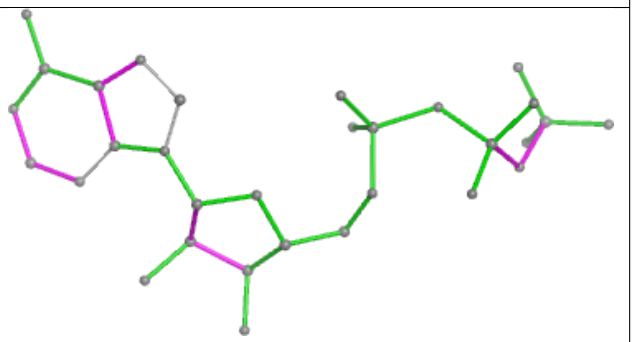


Rings

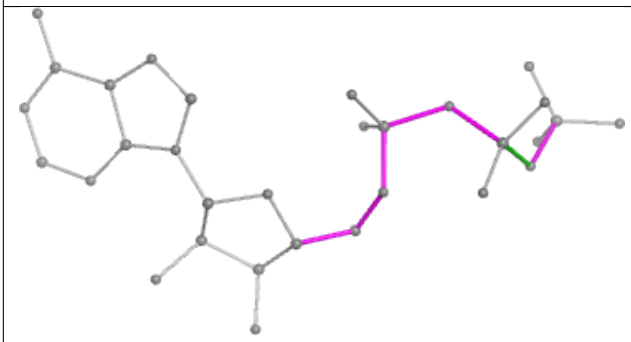
Ligand ATP F 501



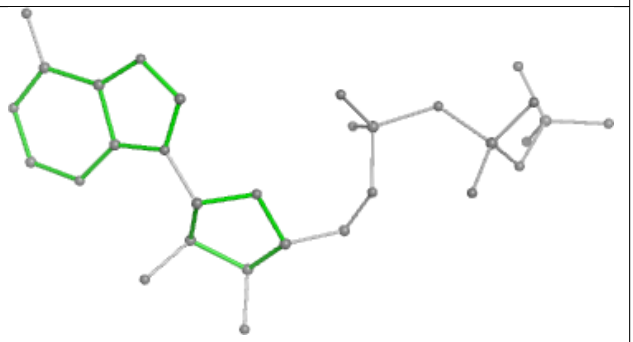
Bond lengths



Bond angles

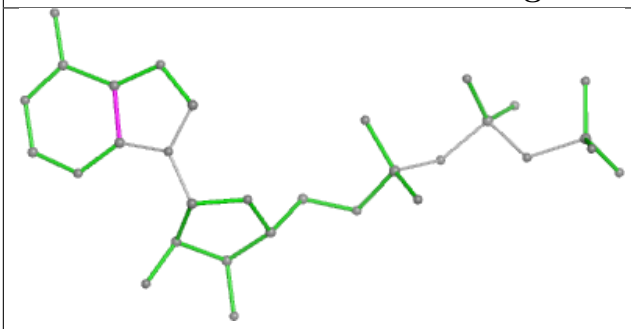


Torsions

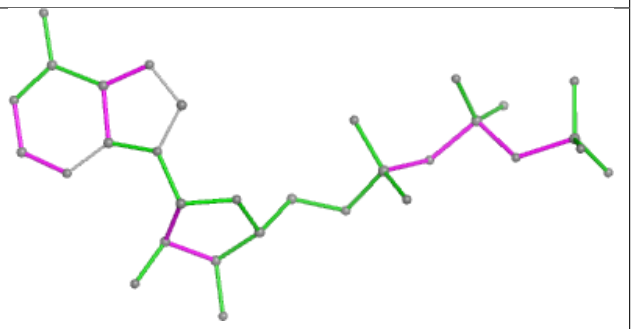


Rings

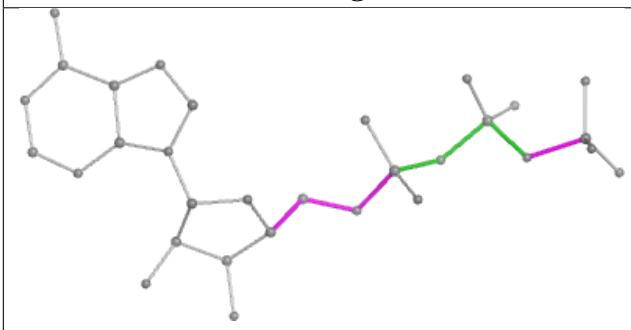
Ligand ATP D 501



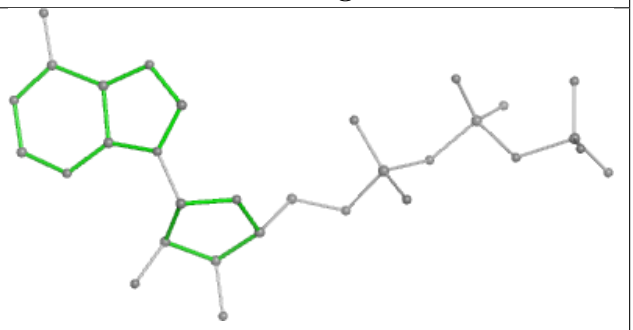
Bond lengths



Bond angles

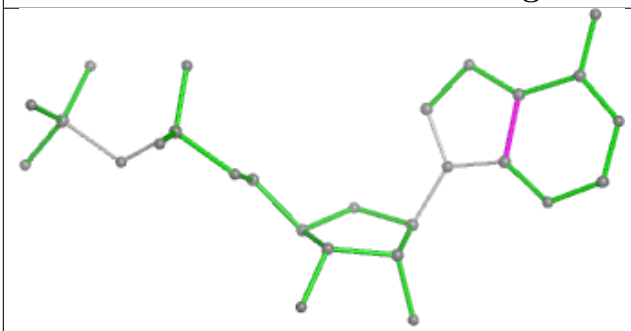


Torsions

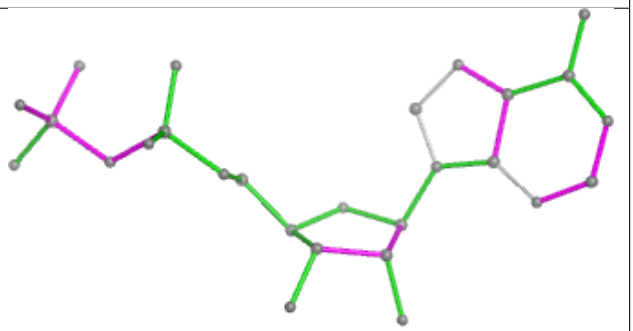


Rings

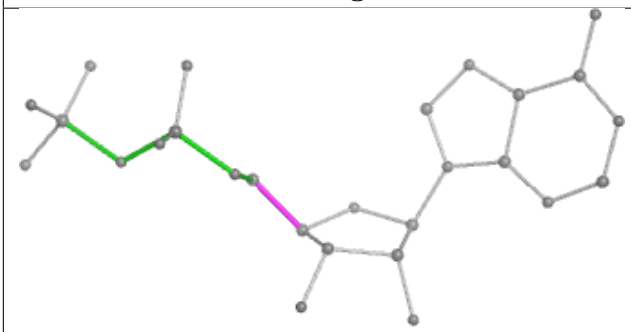
Ligand ADP B 501



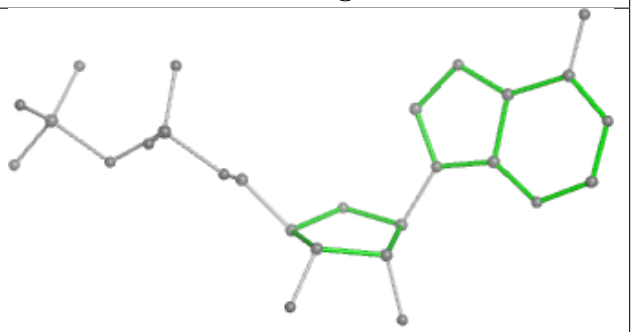
Bond lengths



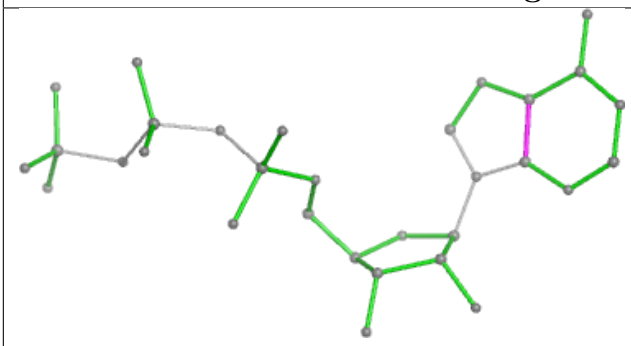
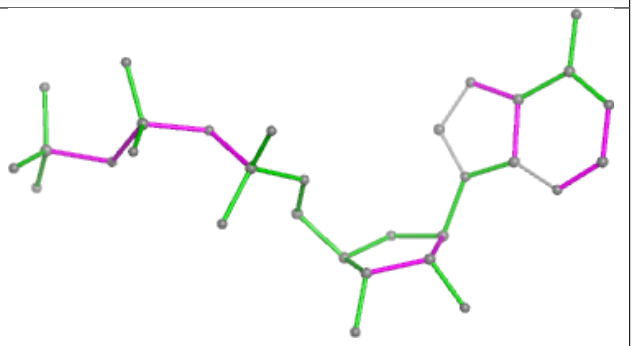
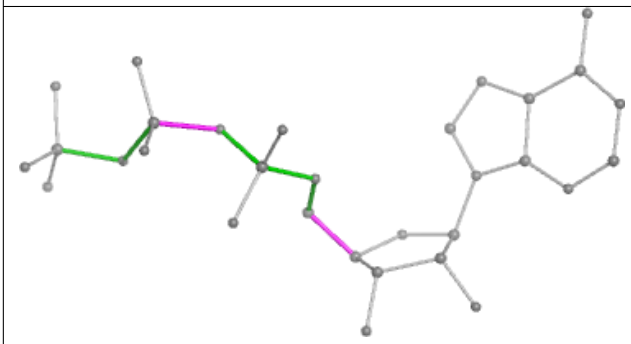
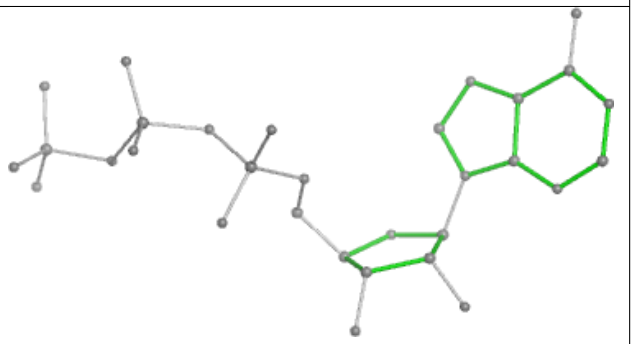
Bond angles



Torsions



Rings

Ligand ATP A 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

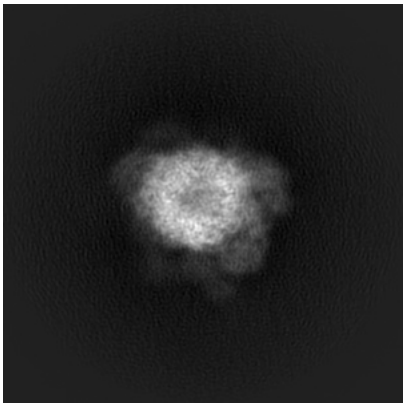
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-14204. These allow visual inspection of the internal detail of the map and identification of artifacts.

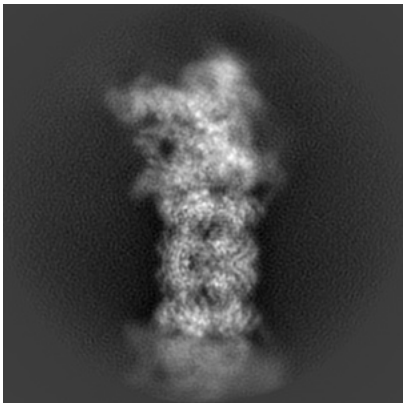
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

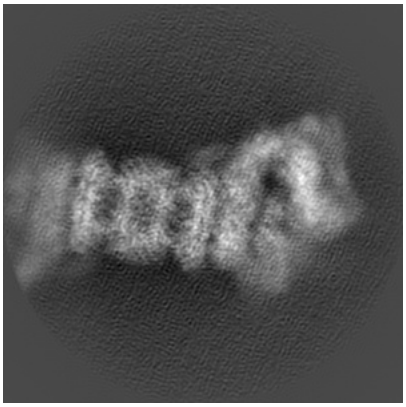
6.1.1 Primary map



X



Y

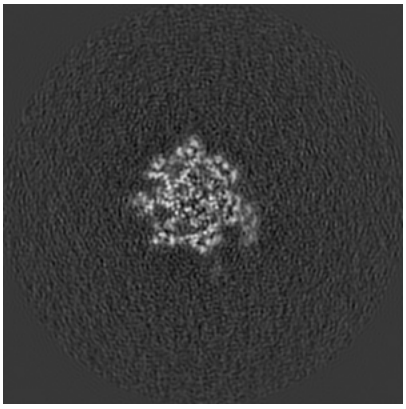


Z

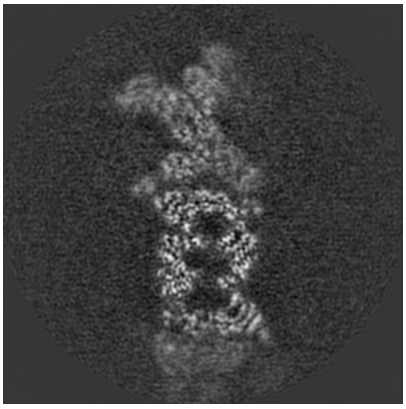
The images above show the map projected in three orthogonal directions.

6.2 Central slices

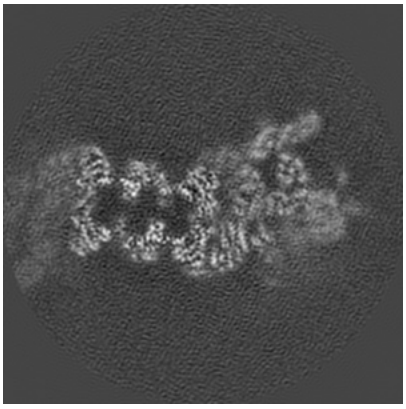
6.2.1 Primary map



X Index: 160



Y Index: 160

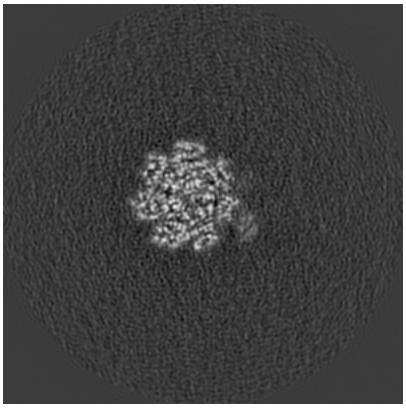


Z Index: 160

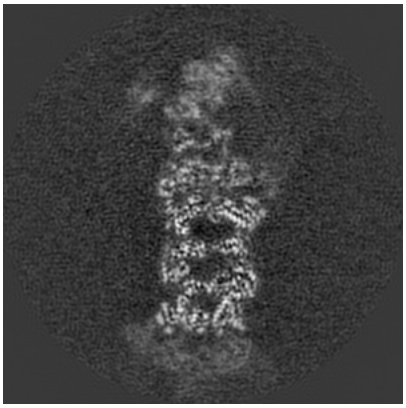
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

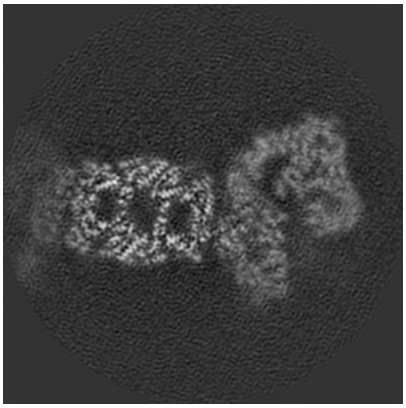
6.3.1 Primary map



X Index: 154



Y Index: 143

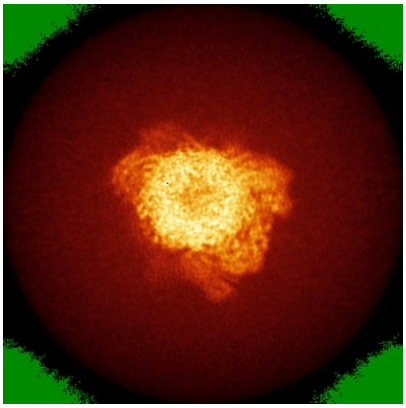


Z Index: 176

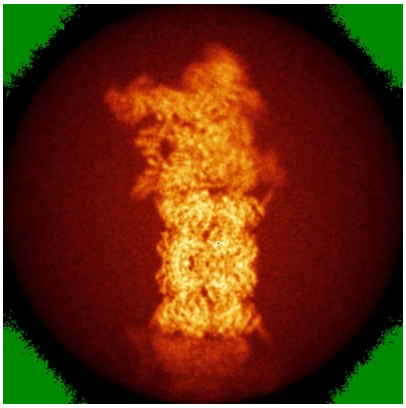
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

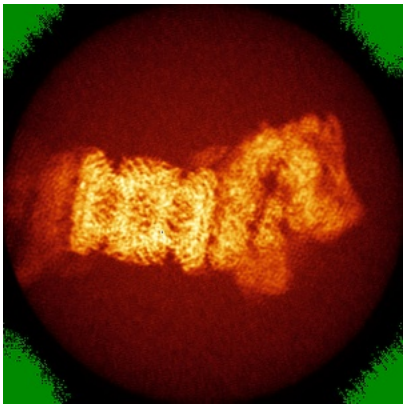
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.0328. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

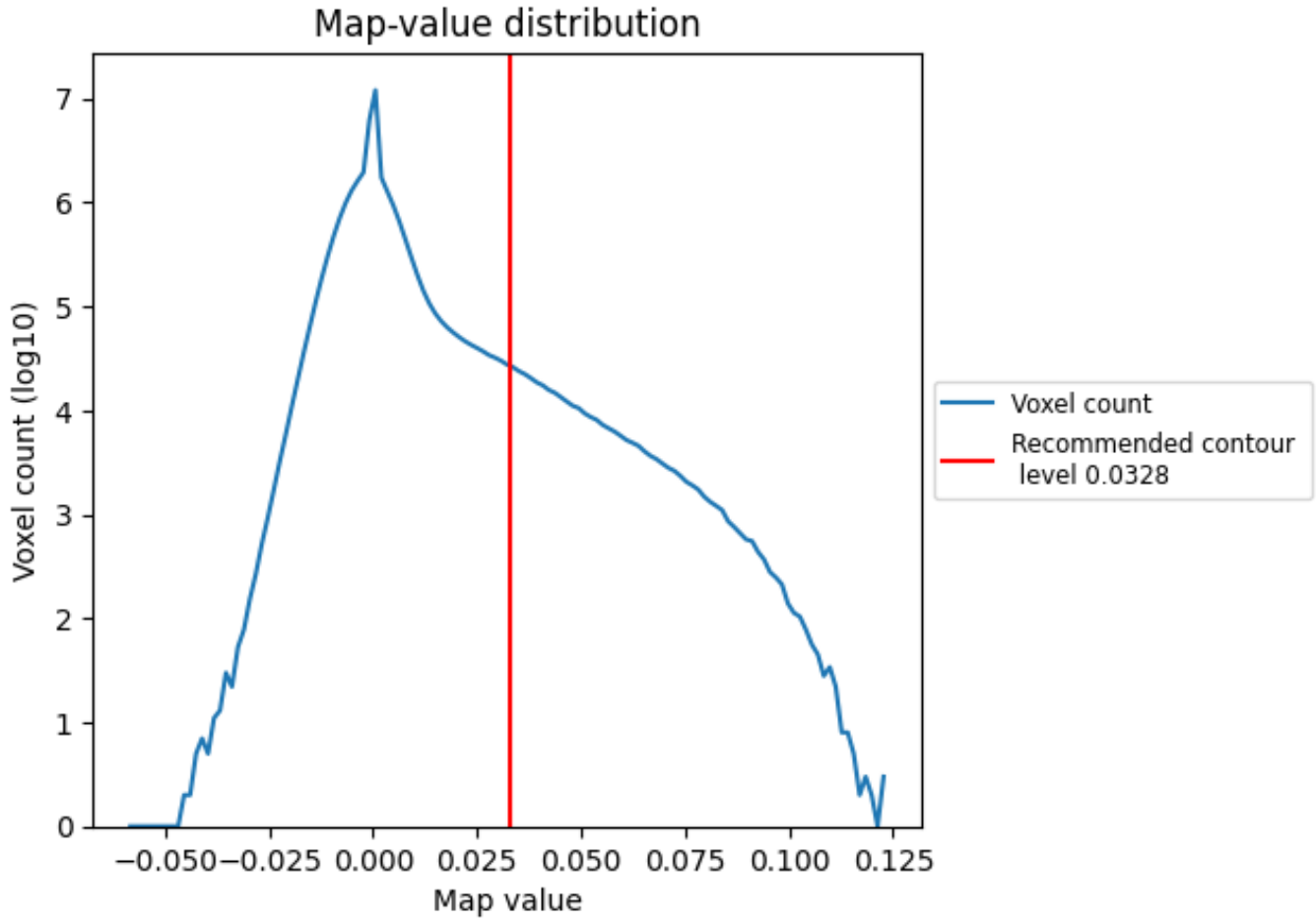
6.6 Mask visualisation (i)

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

7 Map analysis

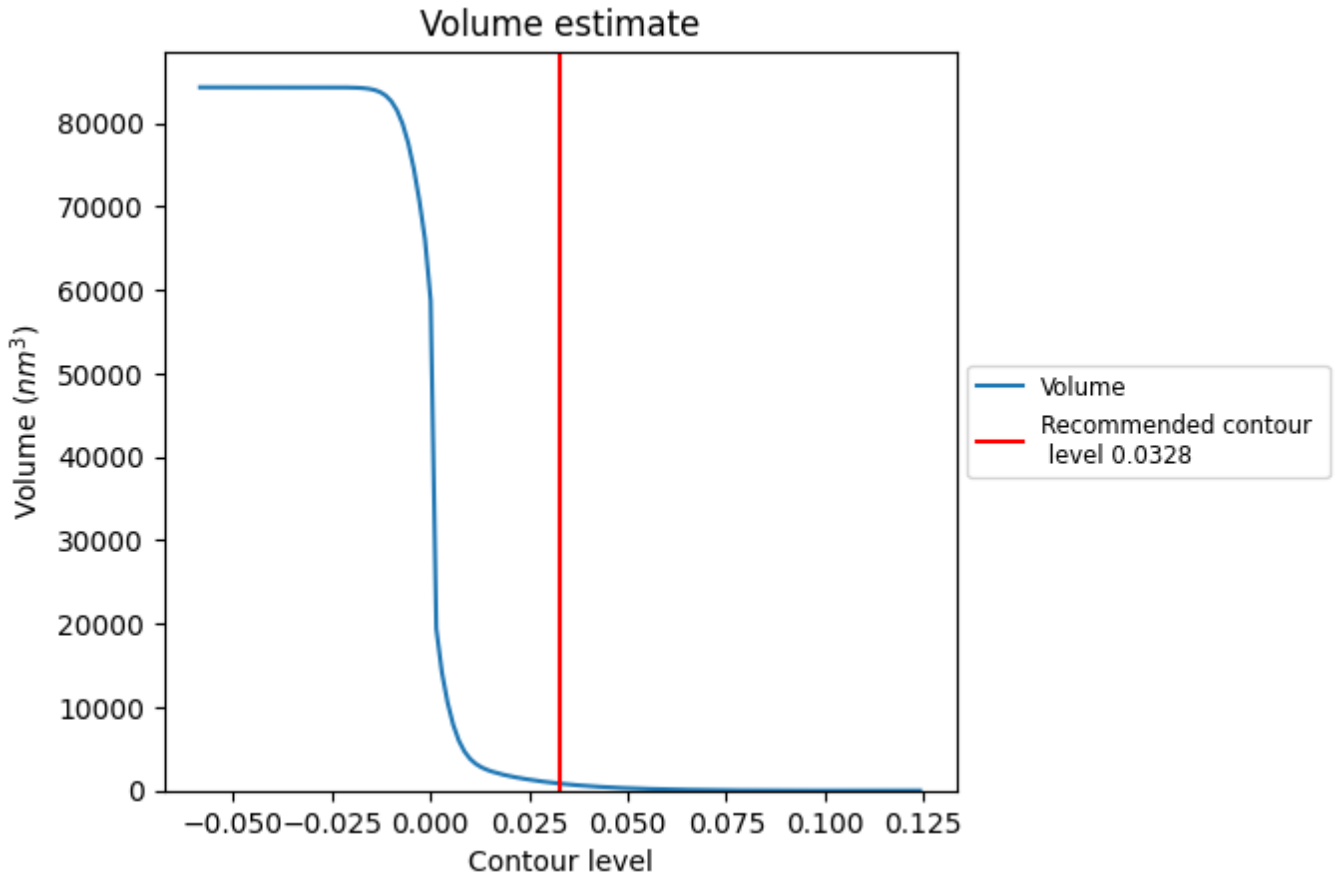
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

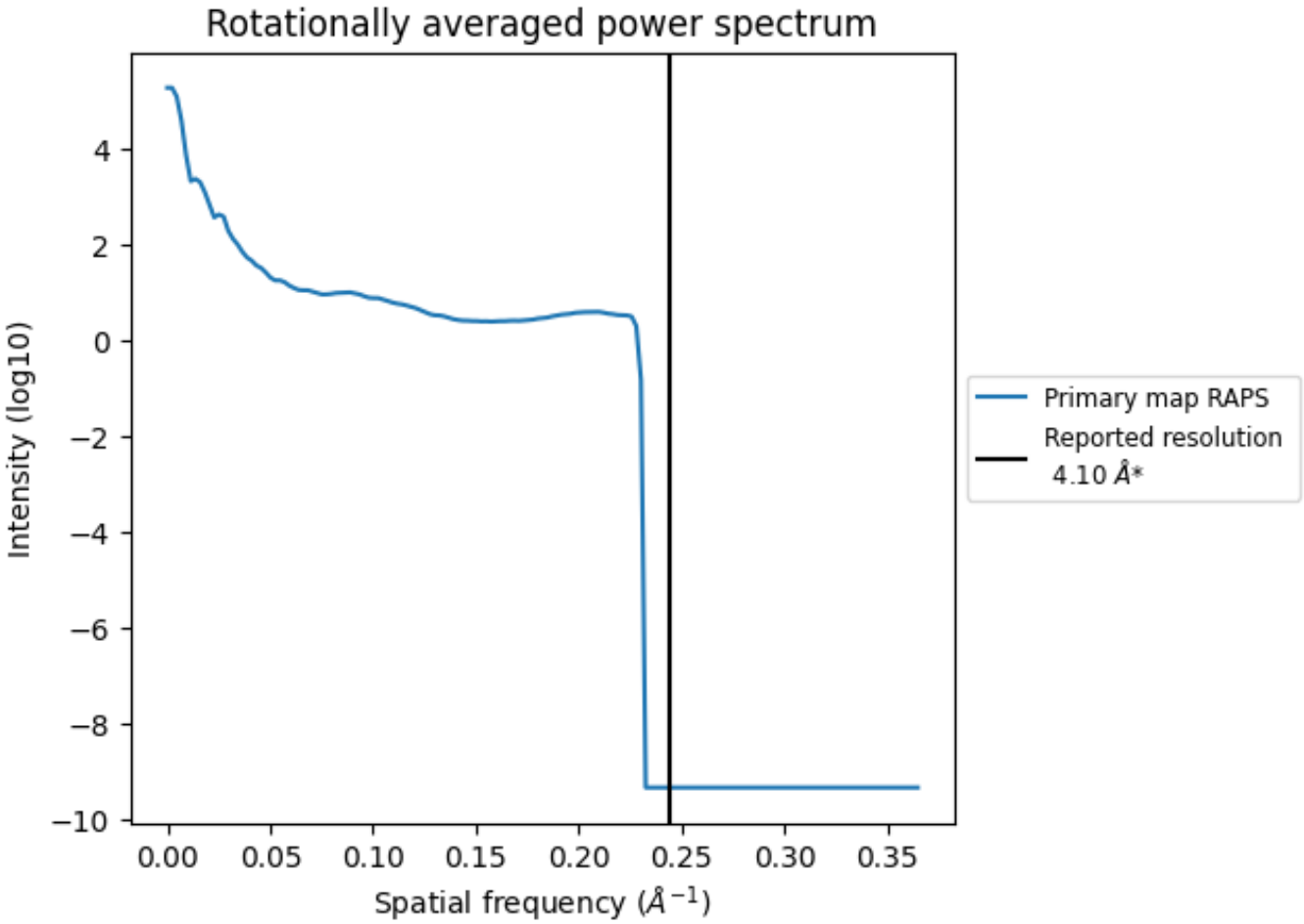
7.2 Volume estimate



The volume at the recommended contour level is 842 nm^3; this corresponds to an approximate mass of 761 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.244 Å^{-1}

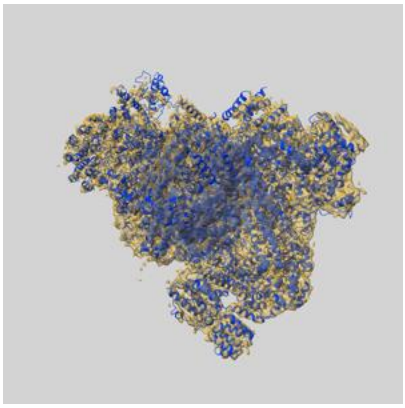
8 Fourier-Shell correlation

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

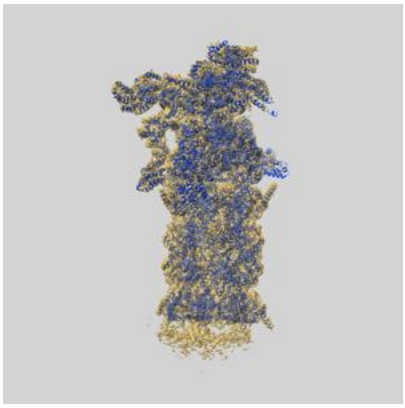
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-14204 and PDB model 7QXW. Per-residue inclusion information can be found in section 3 on page 13.

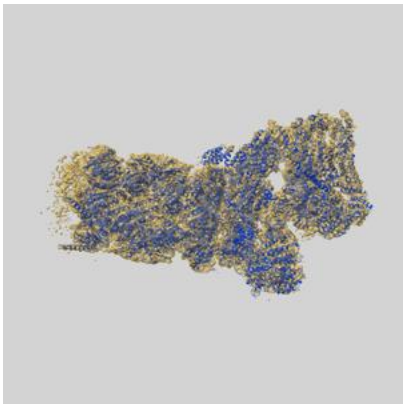
9.1 Map-model overlay



X



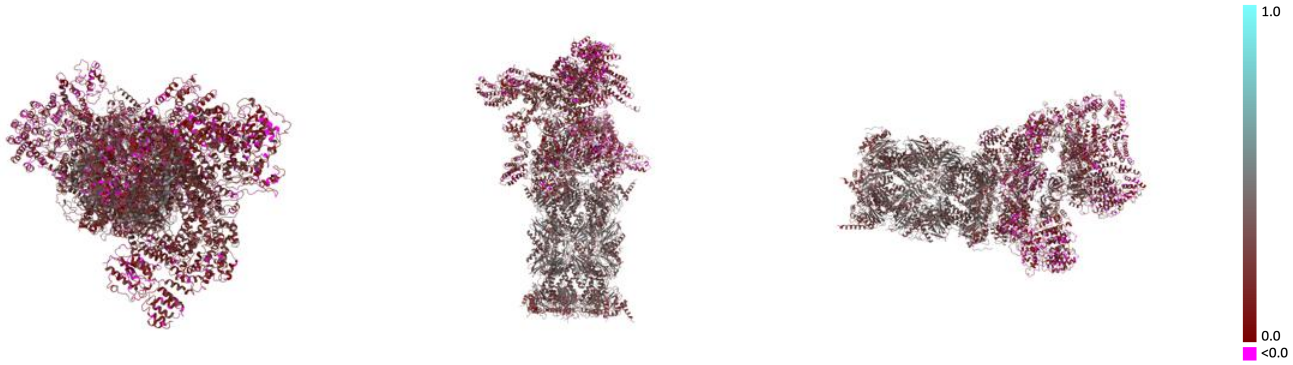
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0328 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

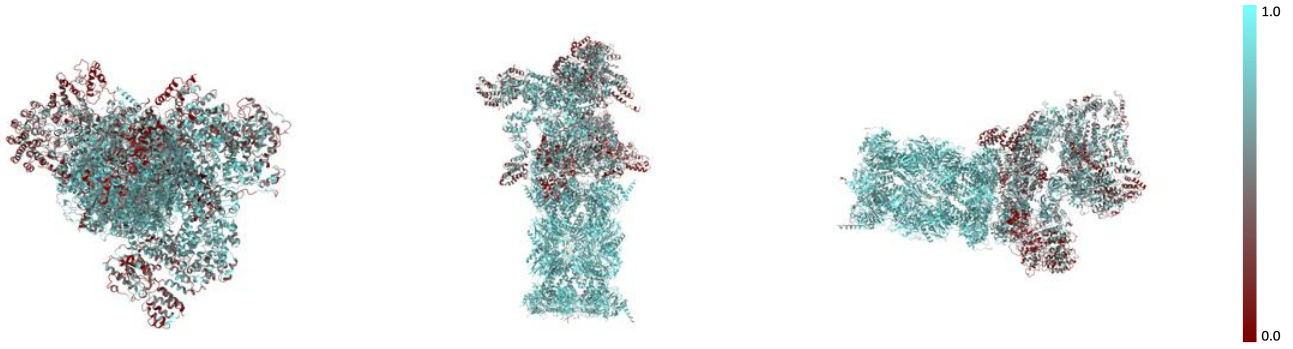
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

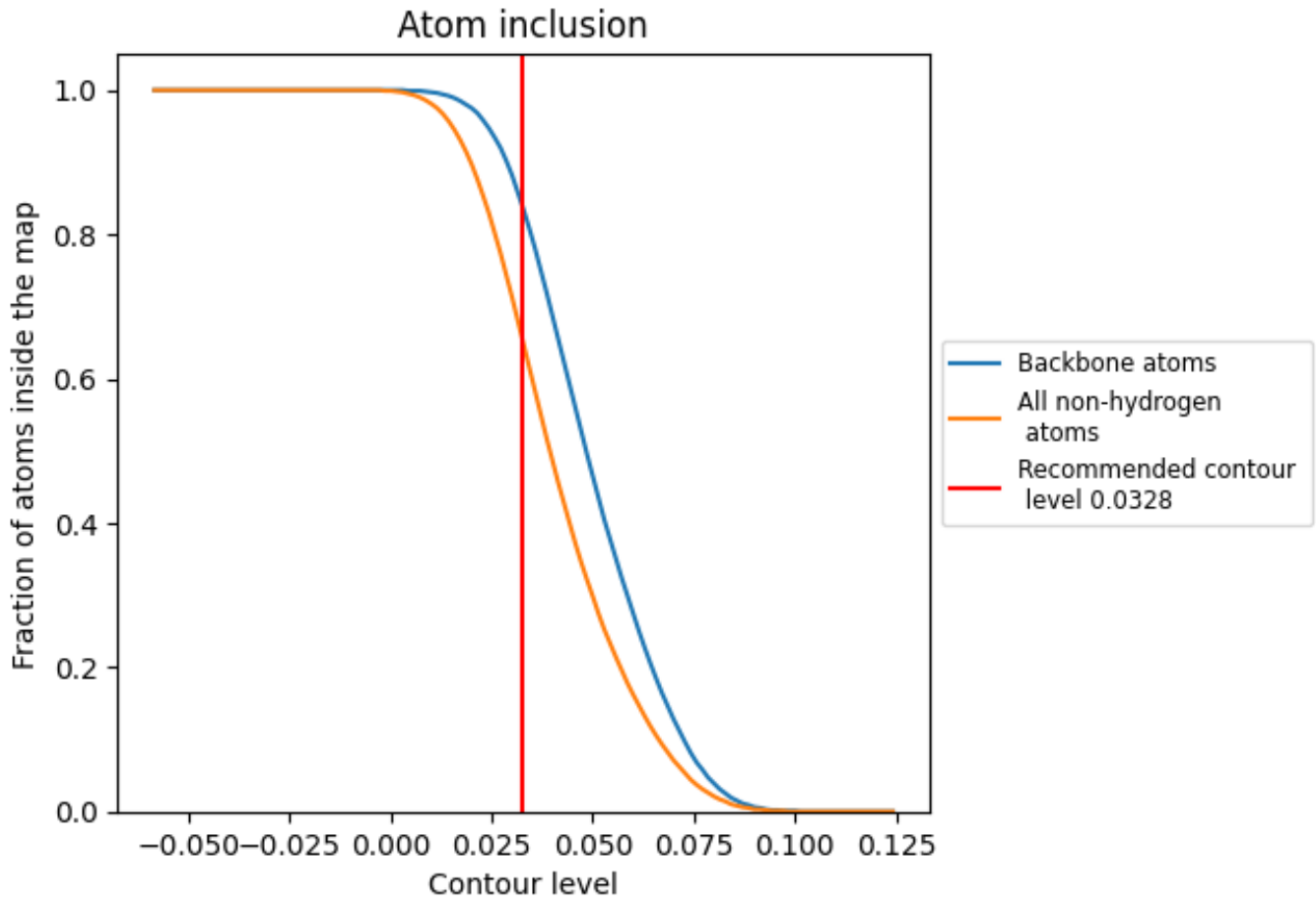
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0328).

9.4 Atom inclusion (i)



At the recommended contour level, 84% of all backbone atoms, 65% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.0328) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6500	0.2670
A	0.5960	0.2420
B	0.5090	0.2190
C	0.4850	0.1790
D	0.6350	0.2600
E	0.7130	0.2980
F	0.7020	0.3050
G	0.7920	0.3250
H	0.8070	0.3500
I	0.7830	0.3200
J	0.8180	0.3310
K	0.7820	0.3310
L	0.8210	0.3540
M	0.7900	0.3240
N	0.8390	0.3700
O	0.8450	0.3740
P	0.8410	0.3780
Q	0.8330	0.3600
R	0.8690	0.3820
S	0.8480	0.3850
T	0.8720	0.3900
U	0.4710	0.1610
V	0.4750	0.1480
W	0.5840	0.1920
X	0.3670	0.2060
Y	0.5940	0.1570
Z	0.6320	0.2470
a	0.5250	0.1830
b	0.3660	0.1380
c	0.6550	0.2460
d	0.4650	0.1390
e	0.4490	0.1280
f	0.2820	0.1350
g	0.7610	0.3310
h	0.7710	0.3280

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Chain	Atom inclusion	Q-score
i	0.7250	0.3150
j	0.7710	0.3210
k	0.7470	0.3180
l	0.7970	0.3440
m	0.7610	0.3130
n	0.8650	0.3830
o	0.8530	0.3860
p	0.8430	0.3830
q	0.8360	0.3610
r	0.8620	0.3760
s	0.8370	0.3670
t	0.8610	0.3820
v	0.5870	0.2850