



Full wwPDB EM Validation Report ⓘ

Mar 28, 2026 – 02:37 AM UTC

PDB ID : 7TDZ / pdb_00007tdz
EMDB ID : EMD-25817
Title : Cryo-EM model of protomer of the cytoplasmic ring of the nuclear pore complex from *Xenopus laevis*
Authors : Fontana, P.; Wu, H.
Deposited on : 2022-01-03
Resolution : 6.90 Å(reported)

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

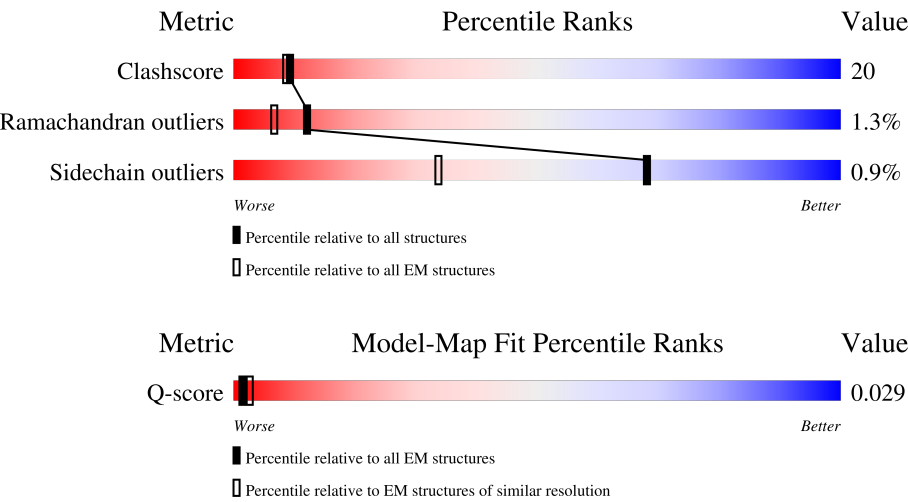
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance i

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

The reported resolution of this entry is 6.90 Å.

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



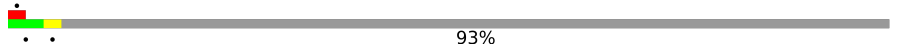
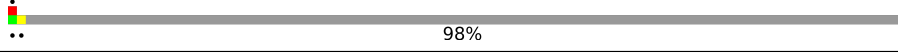
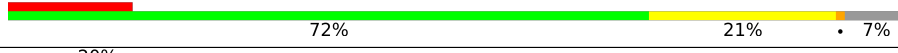
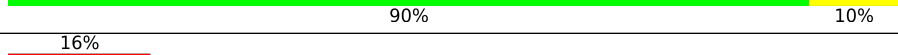
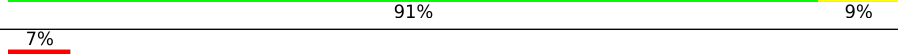
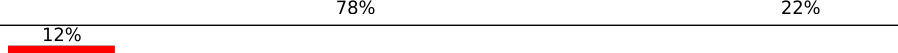
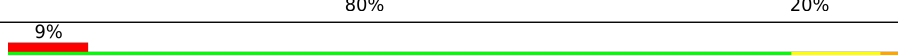
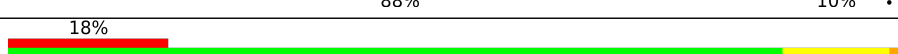
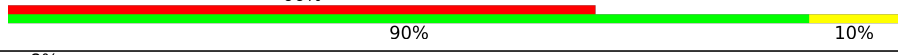
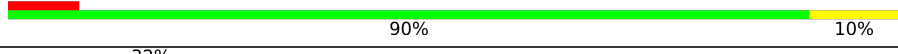
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	479 (6.40 - 7.40)

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

Mol	Chain	Length	Quality of chain
1	H	916	20% 78% 7% 14%
1	h	916	69% 81% 5% 14%
2	T	547	7% 11% 12% 76%
2	t	547	95%

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Mol	Chain	Length	Quality of chain
3	S	2037	
3	s	2037	
4	R	728	
4	r	728	
5	G	306	
5	g	306	
6	L	2011	
6	l	2011	
7	E	322	
7	e	322	
8	D	375	
8	d	375	
9	C	653	
9	c	653	
10	U	1388	
11	M	2905	
11	N	2905	
11	O	2905	
11	P	2905	
11	Q	2905	
12	B	326	
12	b	326	
13	A	1435	
13	a	1435	
14	I	1140	

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Mol	Chain	Length	Quality of chain
14	i	1140	93% 87% 5% 7%
15	F	673	19% 81% 13% 5%
15	f	673	17% 79% 15% 5%

2 Entry composition [i](#)

There are 15 unique types of molecules in this entry. The entry contains 331243 atoms, of which 162589 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 Nuclear pore complex protein.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	H	789	Total	C	H	N	O	S	0	0
			12767	4080	6346	1085	1224	32		
1	h	789	Total	C	H	N	O	S	0	0
			12767	4080	6346	1085	1224	32		

- Molecule 2 is a protein called Nup62.

Mol	Chain	Residues	Atoms						AltConf	Trace
2	t	29	Total	C	H	N	O		0	0
			479	153	235	42	49			
2	T	130	Total	C	H	N	O	S	0	0
			2140	664	1064	189	220	3		

- Molecule 3 is a protein called Nup214.

Mol	Chain	Residues	Atoms						AltConf	Trace
3	s	32	Total	C	H	N	O		0	0
			518	158	261	46	53			
3	S	142	Total	C	H	N	O	S	0	0
			2333	722	1164	208	236	3		

- Molecule 4 is a protein called Nup88A protein.

Mol	Chain	Residues	Atoms						AltConf	Trace
4	r	470	Total	C	H	N	O	S	0	0
			7354	2349	3679	598	703	25		
4	R	680	Total	C	H	N	O	S	0	0
			10786	3395	5396	916	1048	31		

- Molecule 5 is a protein called Protein SEC13 homolog.

Mol	Chain	Residues	Atoms						AltConf	Trace
5	g	306	Total	C	H	N	O	S	0	0
			4657	1506	2270	408	460	13		
5	G	306	Total	C	H	N	O	S	0	0
			4657	1506	2270	408	460	13		

- Molecule 6 is a protein called Nup205.

Mol	Chain	Residues	Atoms						AltConf	Trace
6	L	2011	Total	C	H	N	O	S	0	0
			32130	10112	16156	2785	2978	99		
6	l	2011	Total	C	H	N	O	S	0	0
			32130	10112	16156	2785	2978	99		

- Molecule 7 is a protein called Nucleoporin SEH1-A.

Mol	Chain	Residues	Atoms						AltConf	Trace
7	E	322	Total	C	H	N	O	S	0	0
			4973	1582	2445	452	476	18		
7	e	322	Total	C	H	N	O	S	0	0
			4973	1582	2445	452	476	18		

- Molecule 8 is a protein called Nup42.

Mol	Chain	Residues	Atoms						AltConf	Trace
8	D	375	Total	C	H	N	O	S	0	0
			5727	1813	2800	524	571	19		
8	d	375	Total	C	H	N	O	S	0	0
			5727	1813	2800	524	571	19		

- Molecule 9 is a protein called Nuclear pore complex protein Nup85.

Mol	Chain	Residues	Atoms						AltConf	Trace
9	C	653	Total	C	H	N	O	S	0	0
			10494	3341	5226	904	984	39		
9	c	653	Total	C	N	O	S		0	0
			5267	3341	904	983	39			

- Molecule 10 is a protein called Nup155-prov protein.

Mol	Chain	Residues	Atoms						AltConf	Trace
10	U	358	Total	C	H	N	O	S	0	0
			5843	1868	2931	490	538	16		

- Molecule 11 is a protein called Nup358.

Mol	Chain	Residues	Atoms						AltConf	Trace
11	P	798	Total	C	H	N	O	S	0	0
			12862	4088	6444	1096	1202	32		
11	O	798	Total	C	H	N	O	S	0	0
			12862	4088	6444	1096	1202	32		
11	Q	798	Total	C	H	N	O	S	0	0
			12862	4088	6444	1096	1202	32		
11	N	798	Total	C	H	N	O	S	0	0
			12862	4088	6444	1096	1202	32		
11	M	798	Total	C	H	N	O	S	0	0
			12862	4088	6444	1096	1202	32		

- Molecule 12 is a protein called Nup37.

Mol	Chain	Residues	Atoms						AltConf	Trace
12	B	326	Total	C	H	N	O	S	0	0
			5076	1640	2503	443	473	17		
12	b	326	Total	C	H	N	O	S	0	0
			5076	1640	2503	443	473	17		

- Molecule 13 is a protein called Nup160.

Mol	Chain	Residues	Atoms						AltConf	Trace
13	A	1352	Total	C	H	N	O	S	0	0
			21491	6819	10745	1855	2005	67		
13	a	1352	Total	C	H	N	O	S	0	0
			21491	6819	10745	1855	2005	67		

- Molecule 14 is a protein called Nup133.

Mol	Chain	Residues	Atoms						AltConf	Trace
14	I	671	Total	C	H	N	O	S	0	0
			10733	3406	5353	899	1048	27		
14	i	1064	Total	C	H	N	O	S	0	0
			16672	5313	8274	1394	1641	50		

- Molecule 15 is a protein called Nuclear pore complex protein Nup96.

Mol	Chain	Residues	Atoms						AltConf	Trace
15	F	639	Total	C	H	N	O	S	0	0
			10336	3298	5128	928	954	28		

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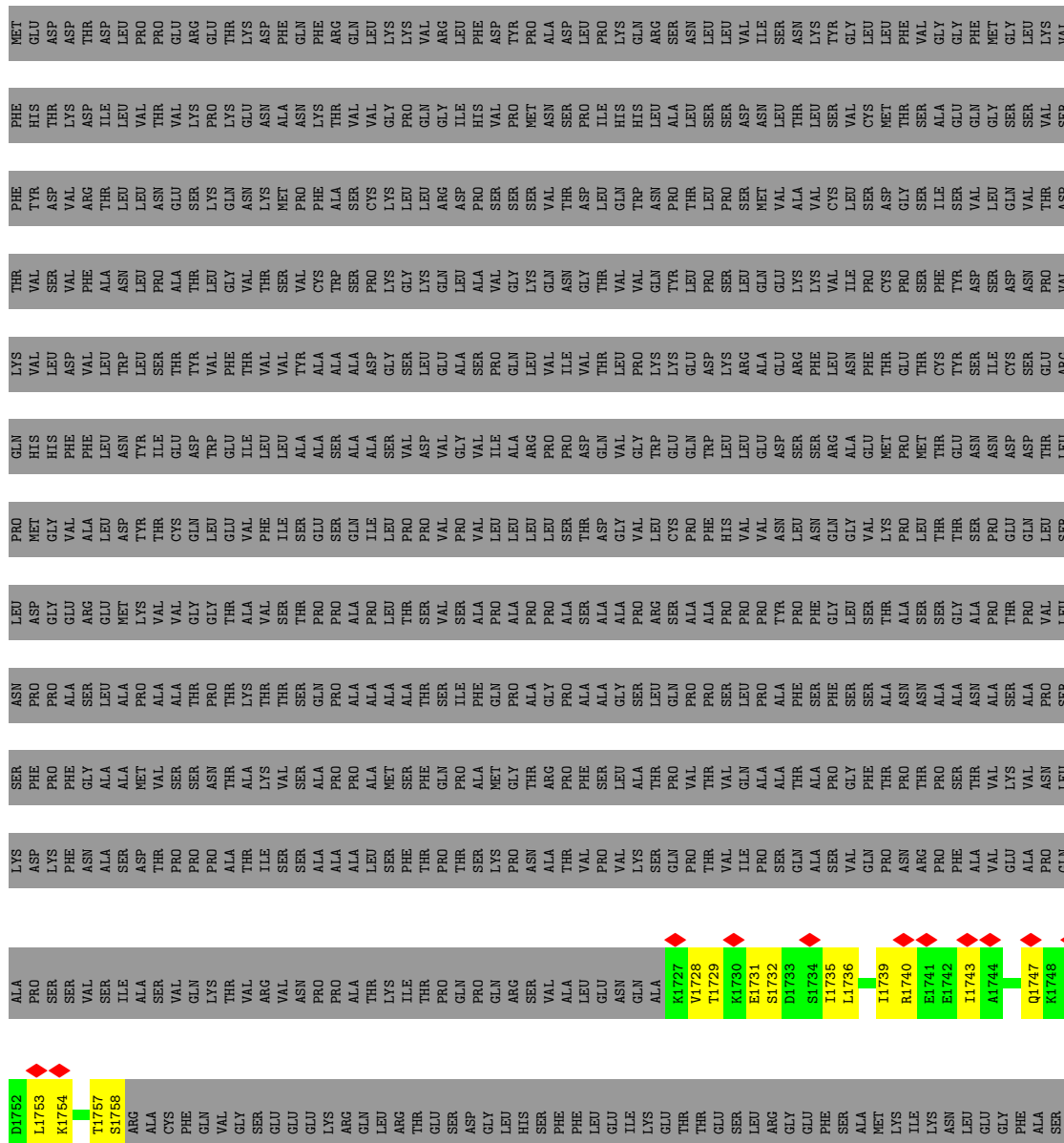
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Mol	Chain	Residues	Atoms						AltConf	Trace
15	f	639	Total	C	H	N	O	S	0	0
			10336	3298	5128	928	954	28		



- Molecule 3: Nup214

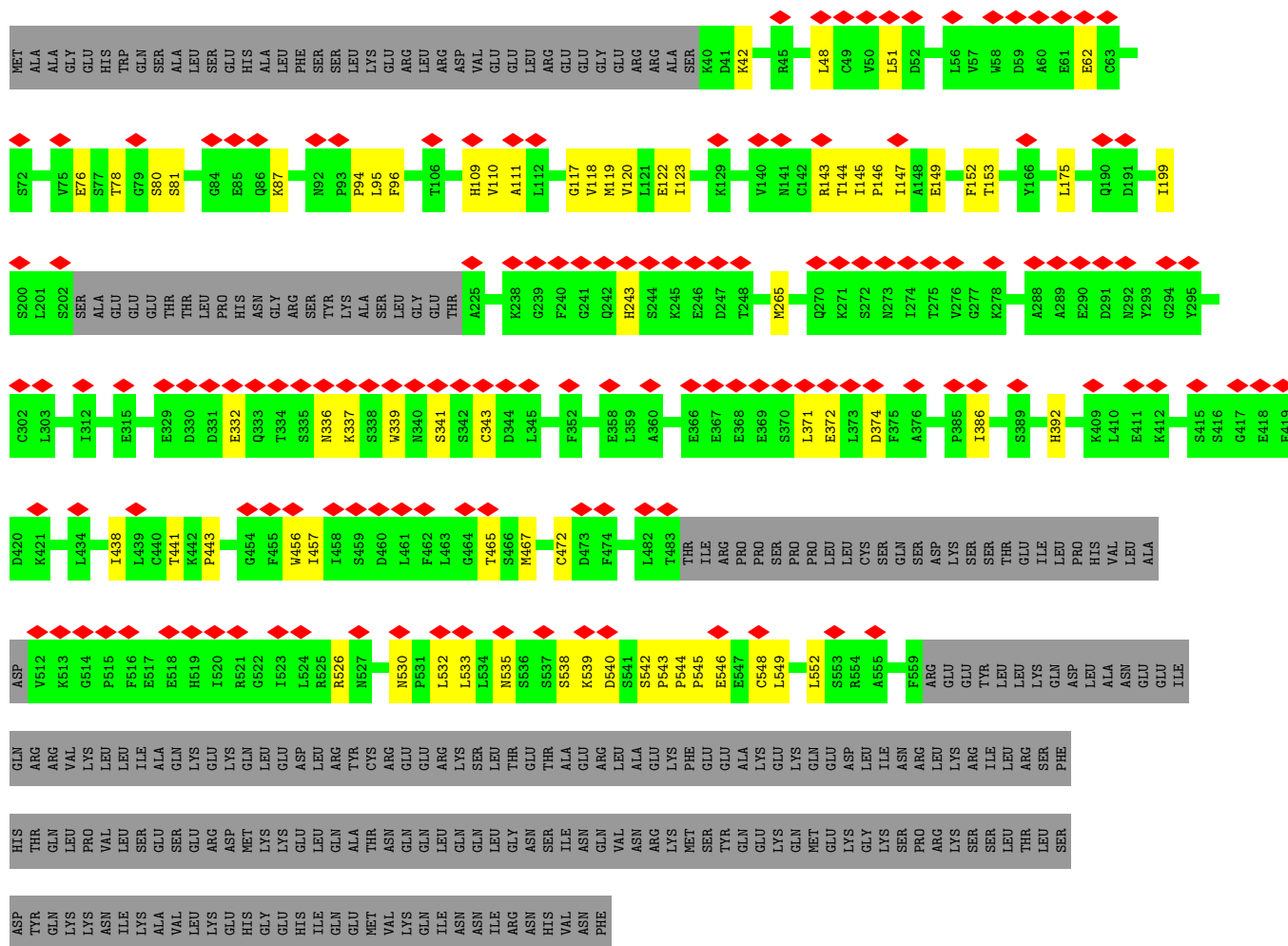
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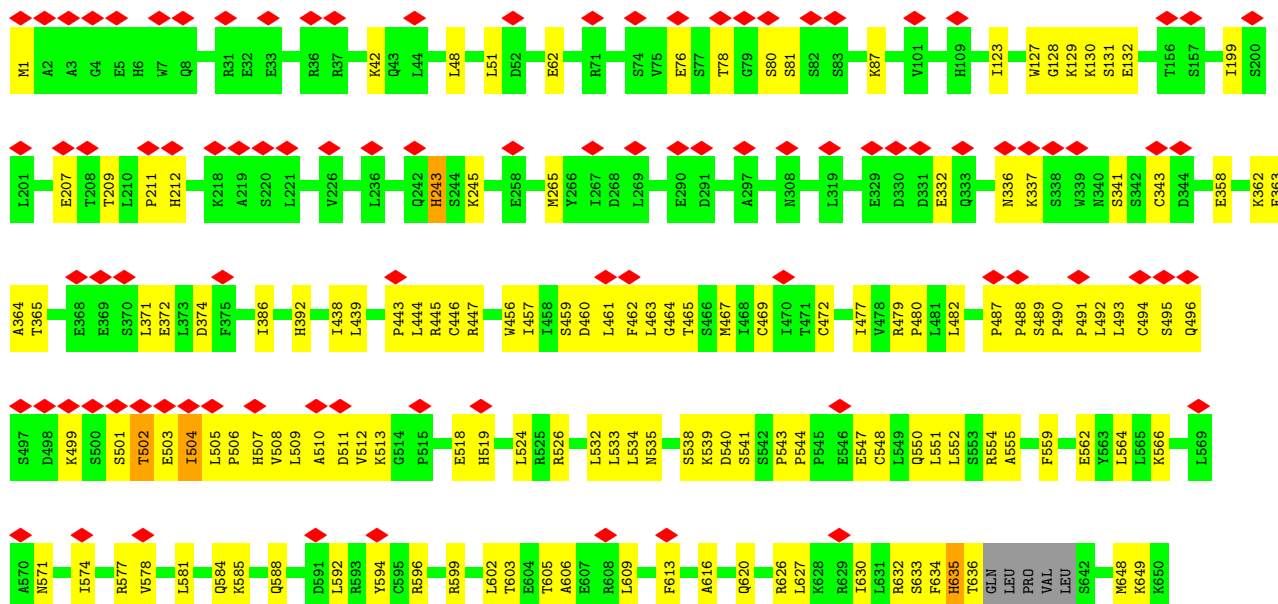


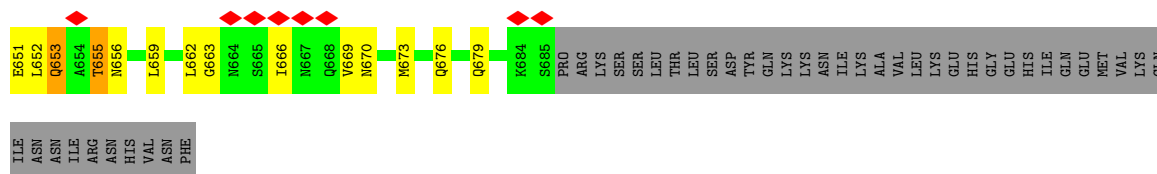
- Molecule 4: Nup88A protein



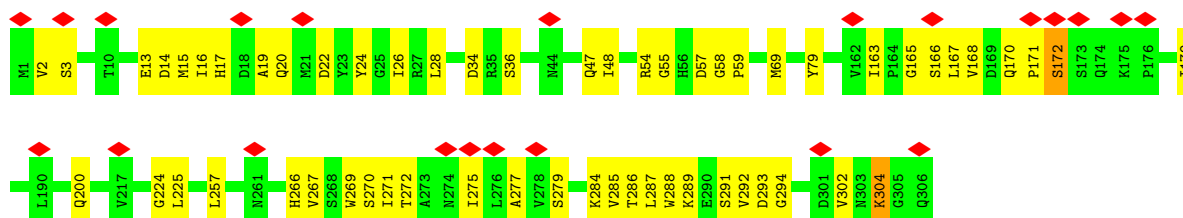
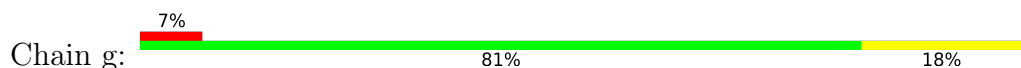


• Molecule 4: Nup88A protein

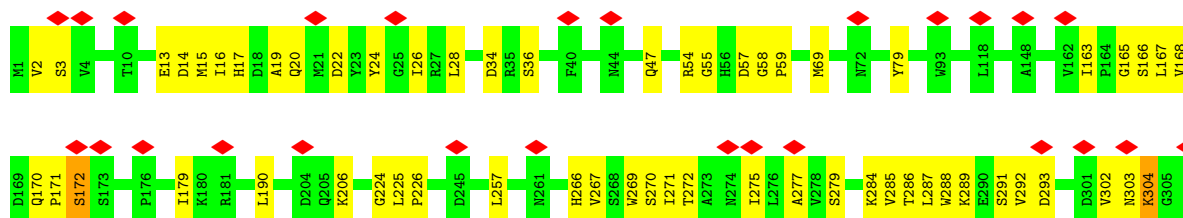
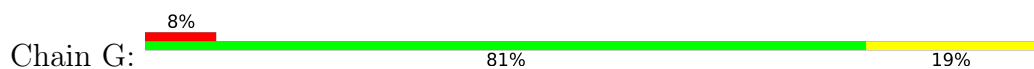




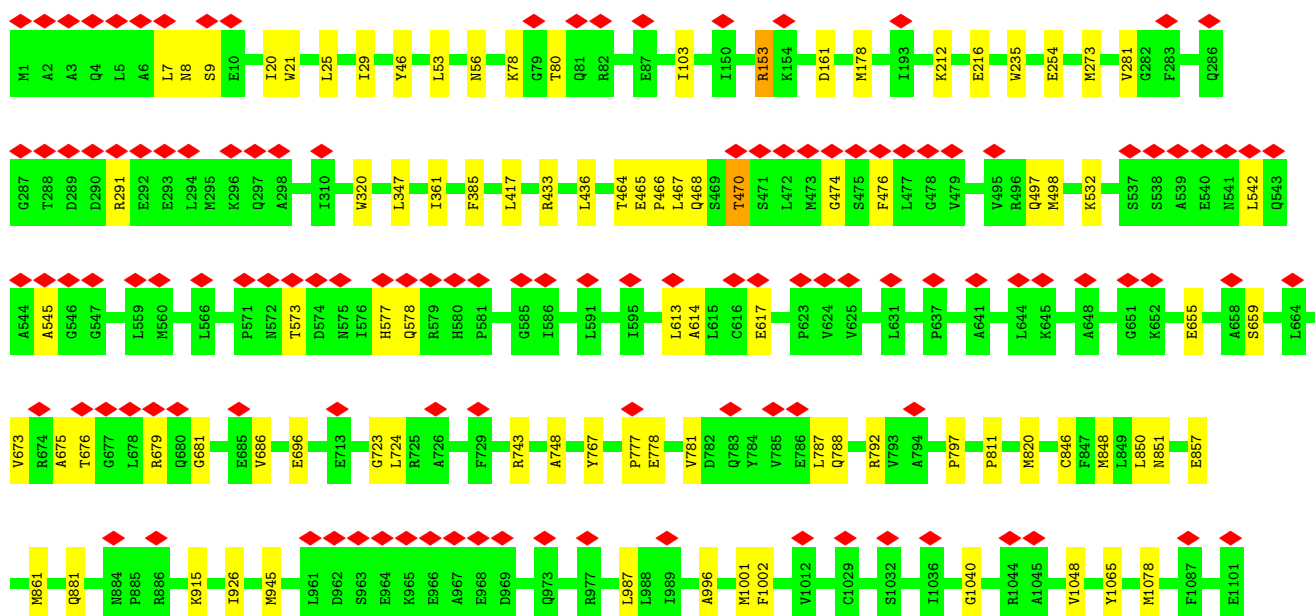
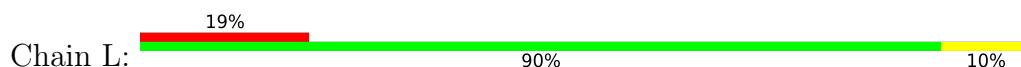
• Molecule 5: Protein SEC13 homolog

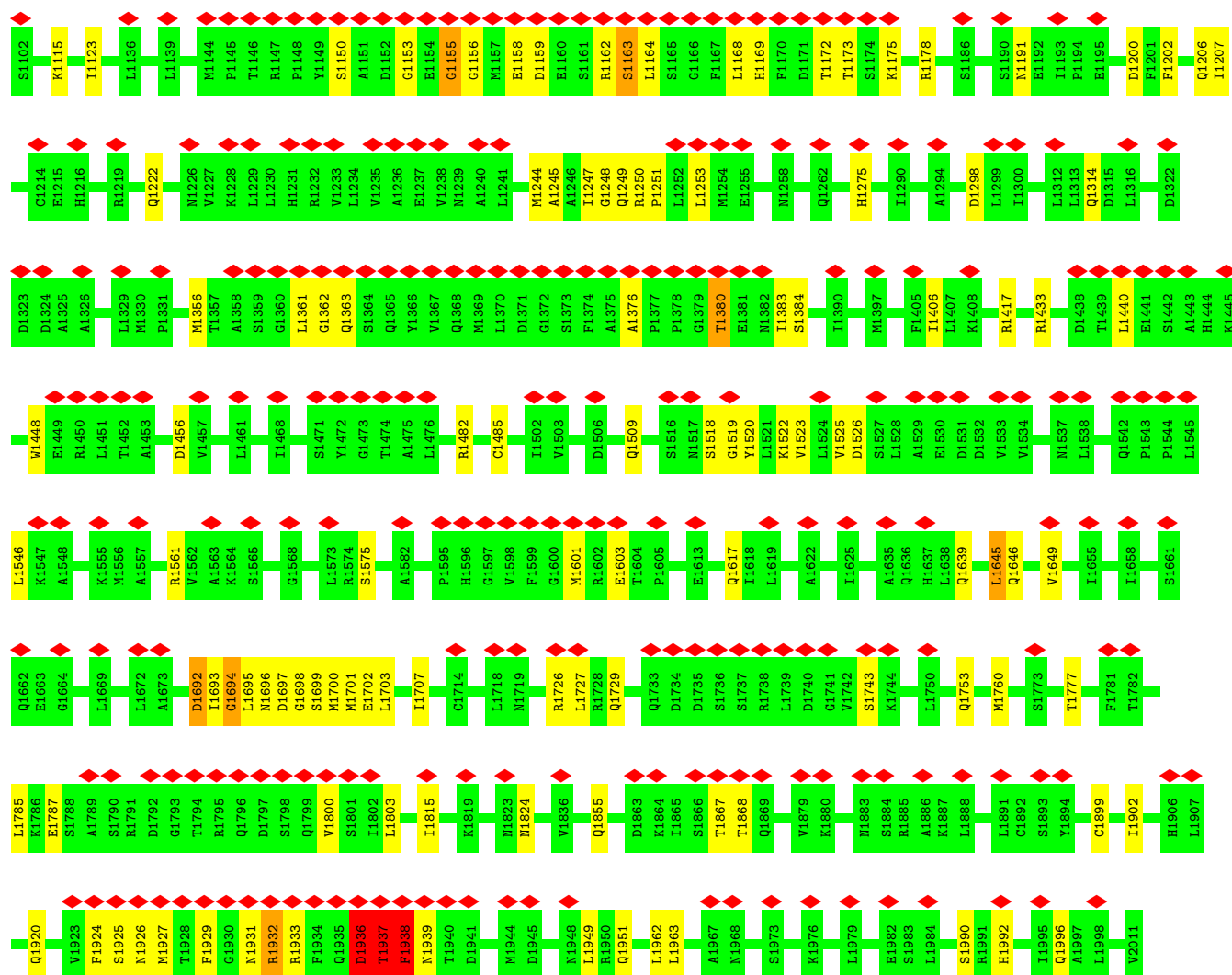


• Molecule 5: Protein SEC13 homolog

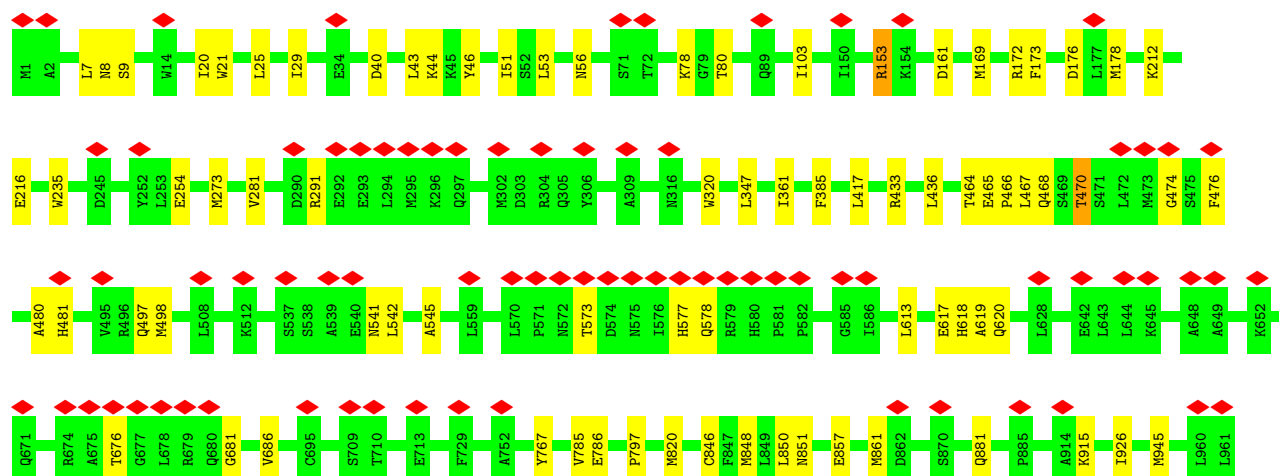


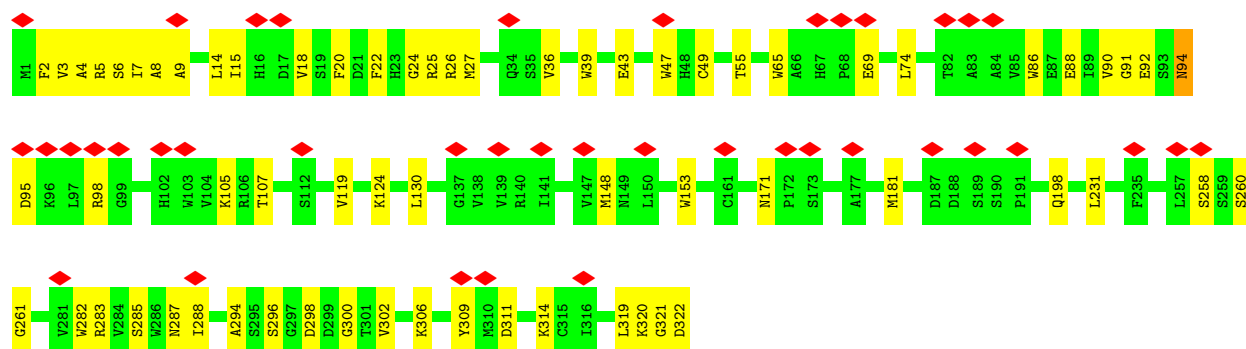
• Molecule 6: Nup205



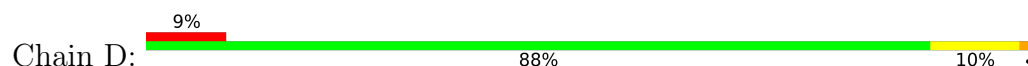


• Molecule 6: Nup205

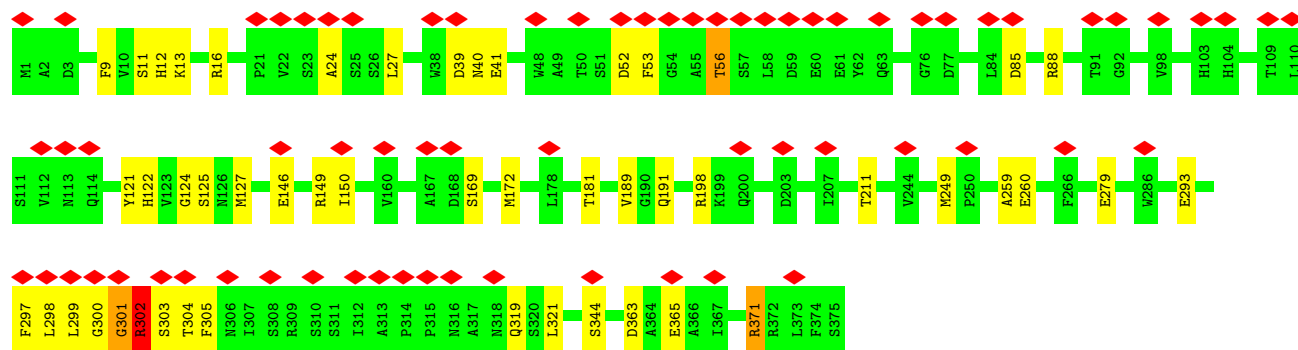
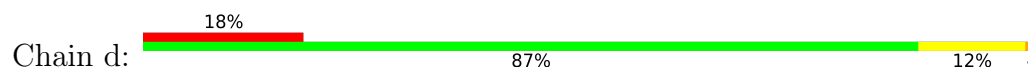




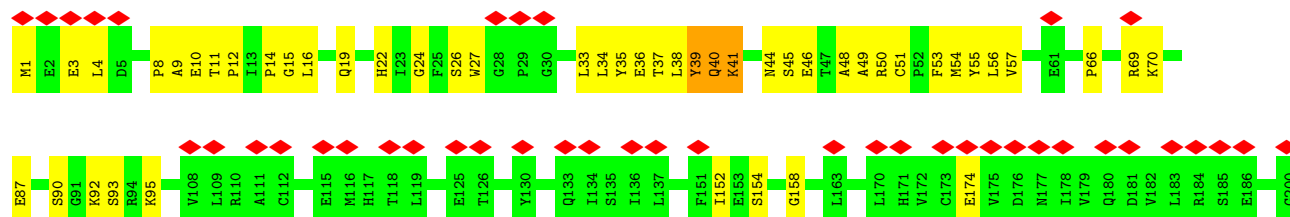
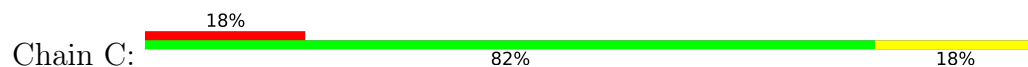
• Molecule 8: Nup42

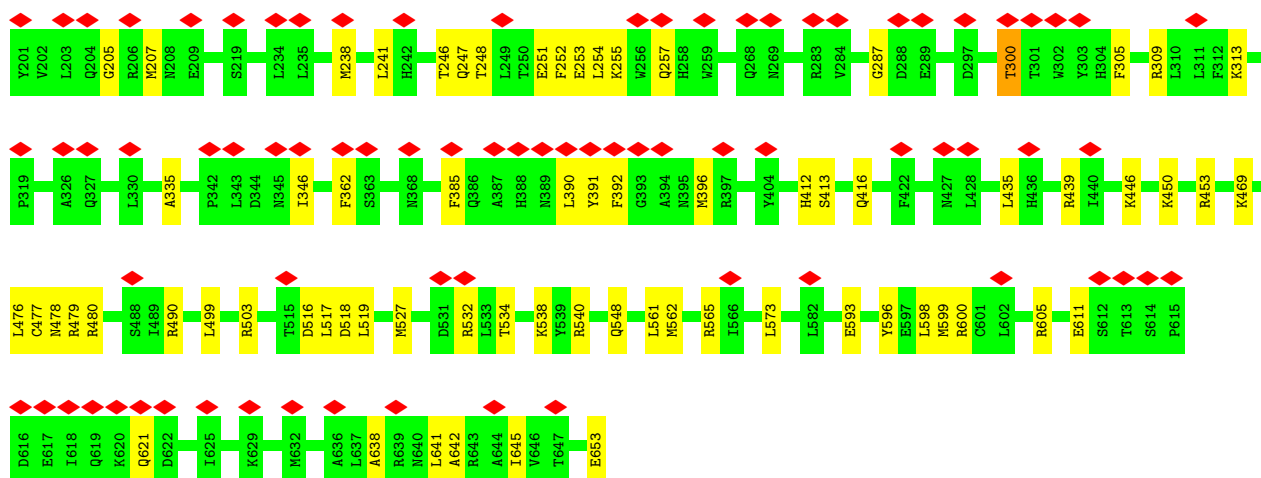


• Molecule 8: Nup42

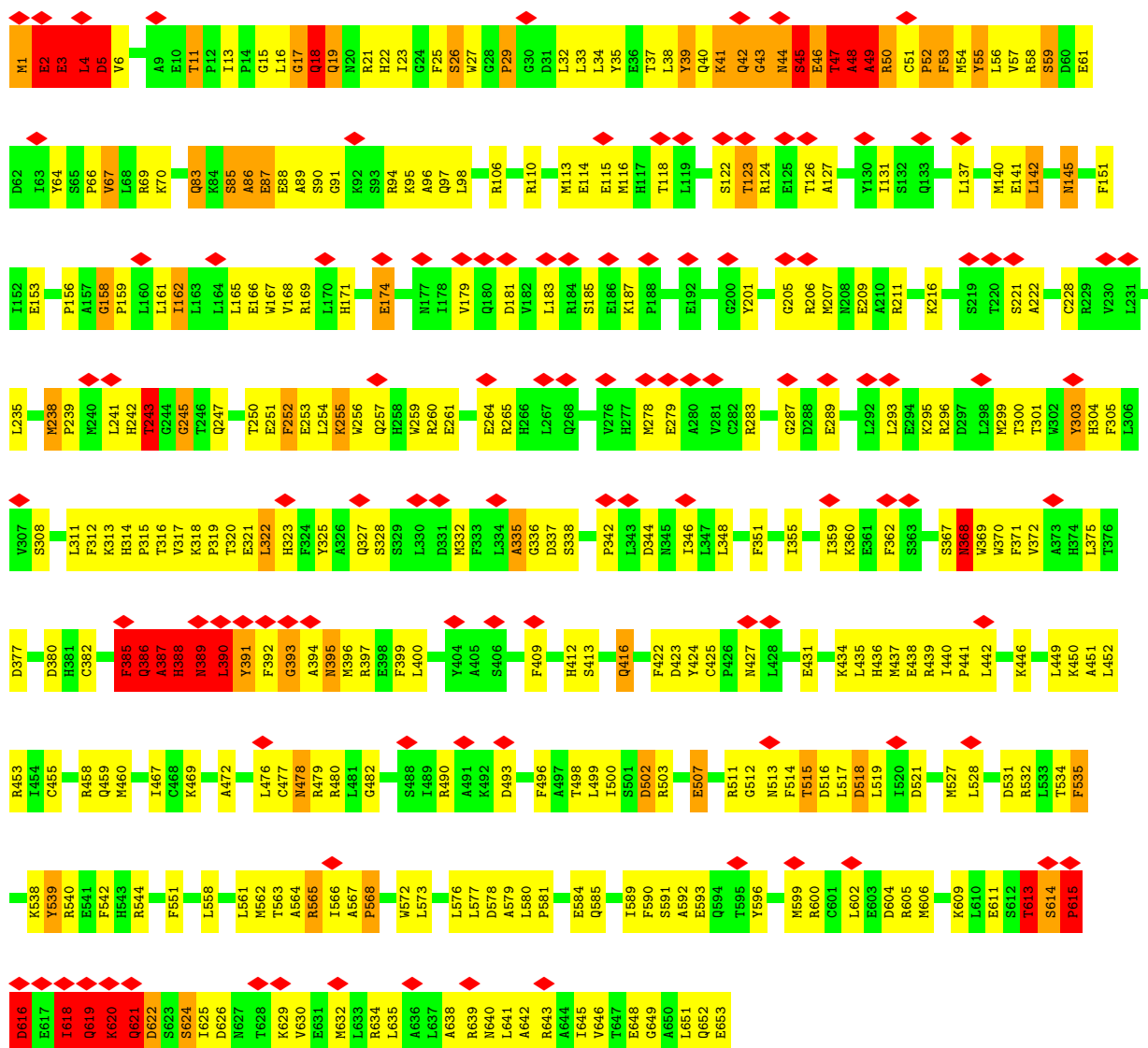


• Molecule 9: Nuclear pore complex protein Nup85





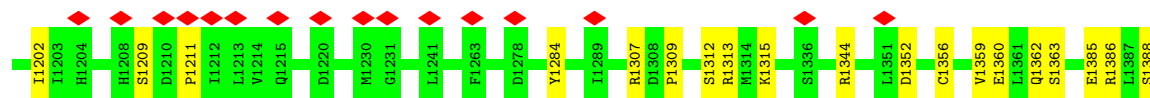
• Molecule 9: Nuclear pore complex protein Nup85



Chain U:



ALA	TYR	CYS	LEU	PHE	THR	CYS	PRO	ALA	PRO	ASP	ARG	VAL	ALA	PRO	ASP	THR	PHE	LEU	LEU	GLN	TYR	ALA	TYR	MET
LEU	GLN	TYR	VAL	ALA	THR	ILE	ILE	CYS	VAL	ASN	THR	ILE	CYS	VAL	ASN	THR	THR	GLN	ASN	PRO	PRO	GLN	PRO	PRO
LYS	LYS	ILE	ARG	GLN	GLY	PHE	VAL	ARG	GLY	ASP	GLY	THR	THR	GLY	GLY	PRO	GLY	GLY	GLY	GLN	LEU	GLY	GLY	GLY
ALA	ASN	ASN	CYS	LEU	LEU	ILE	PRO	ILE	SER	ASP	THR	ILE	THR	THR	THR	THR	VAL	THR	THR	THR	THR	THR	THR	THR
ASN	GLN	ASN	GLN	ASN	GLY	ILE	PRO	ILE	THR	THR	GLY	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
SER	GLN	ARG	CYS	MET	LEU	ARG	SER	LEU	SER	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
LEU	GLN	ASN	GLN	ASN	GLY	ILE	PRO	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	GLN	ASN	CYS	LEU	LEU	ILE	PRO	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ALA	VAL	ALA	ALA	ALA	ASN	ASN	PRO	CYS	ASN	ASP	ASP	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
SER	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
ASN	ASN	ASN	ALA	ASN	ASN	ILE																		



• Molecule 11: Nup358



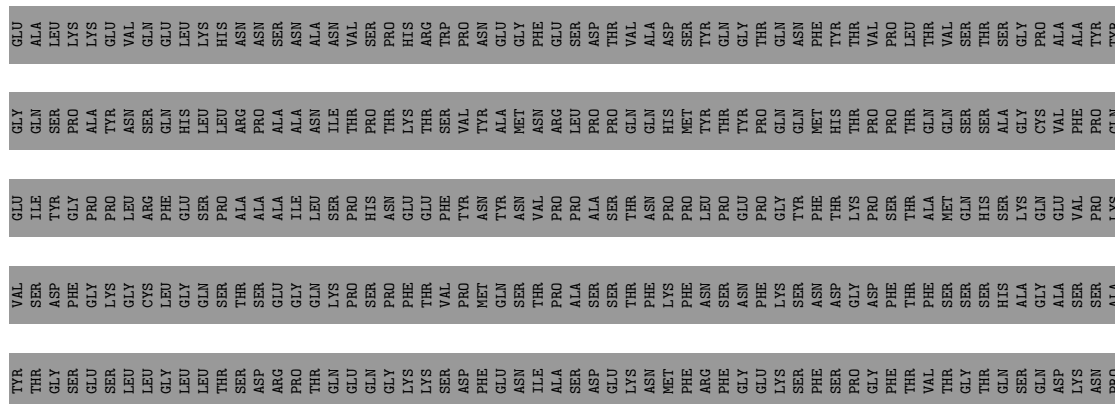






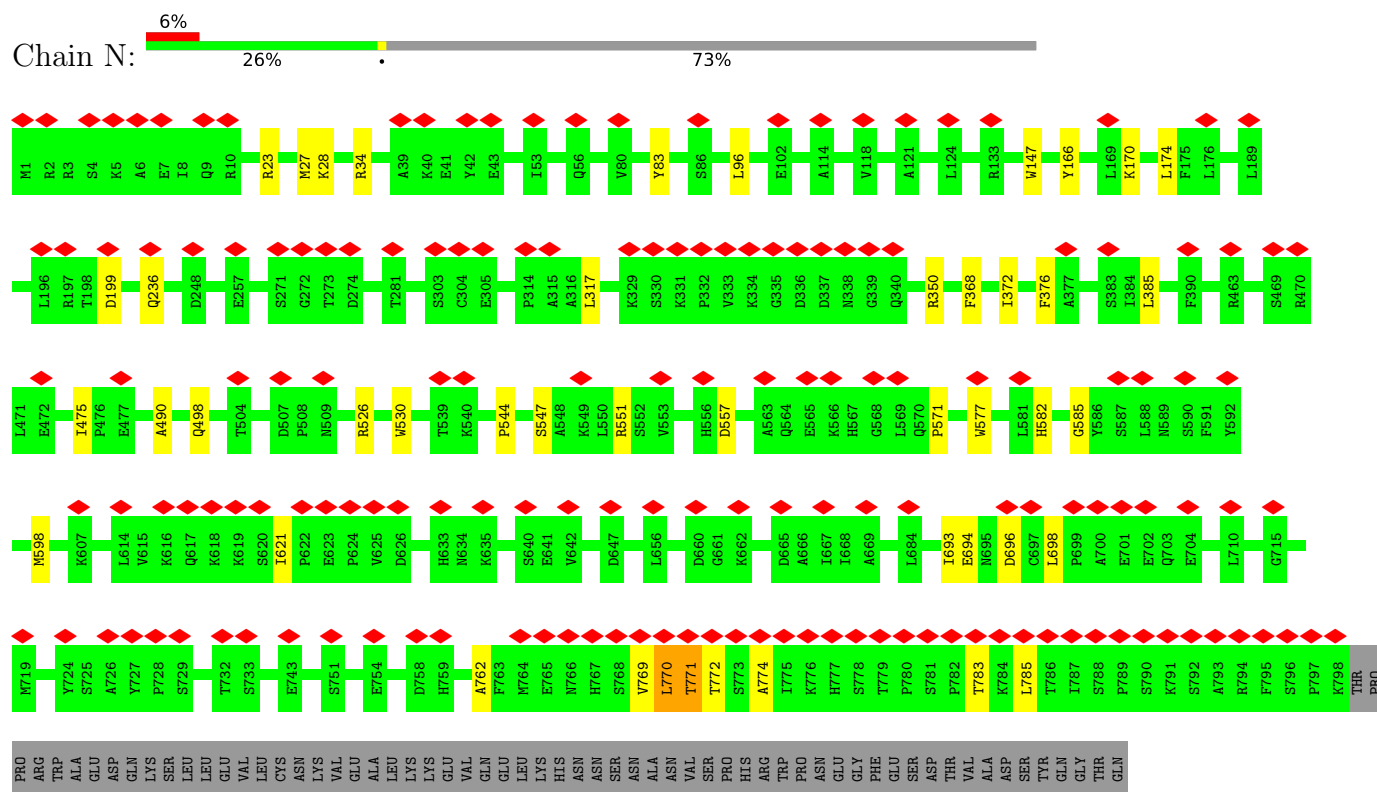


- Molecule 11: Nup358





- Molecule 11: Nup358

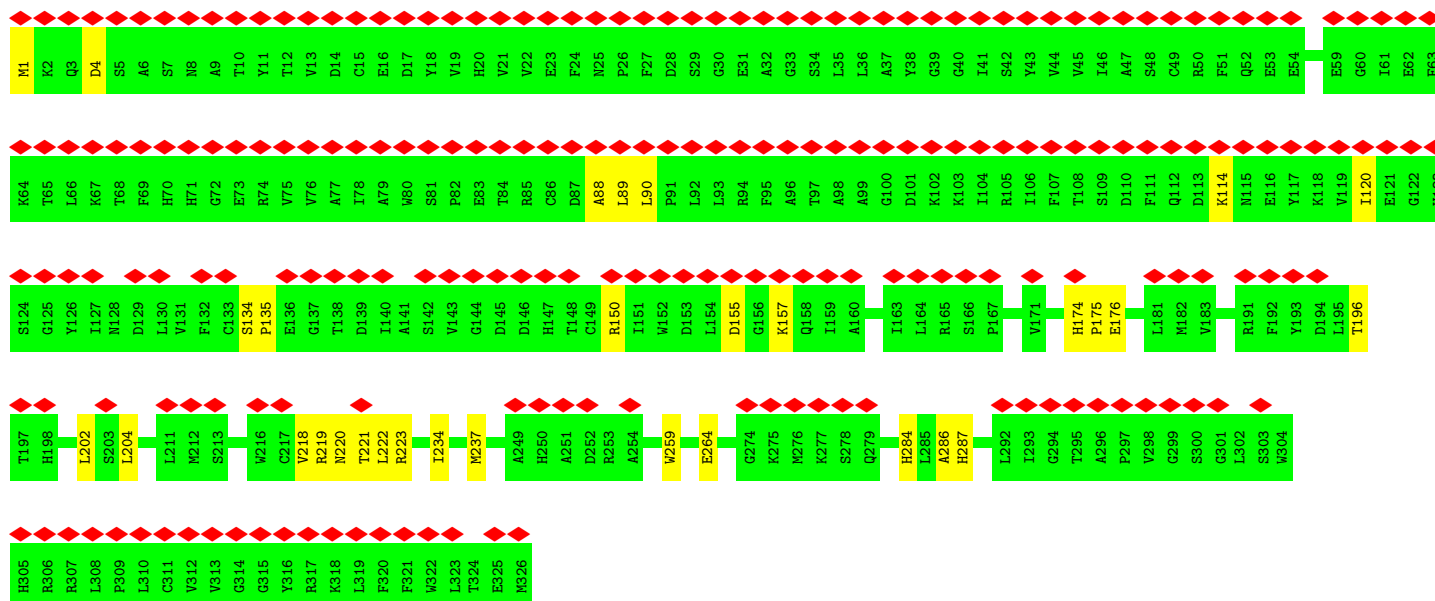




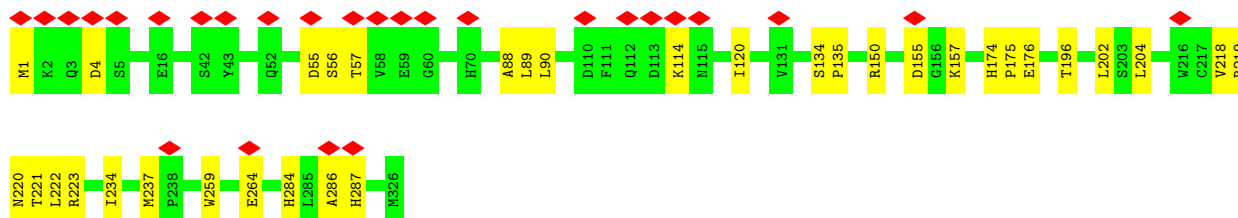
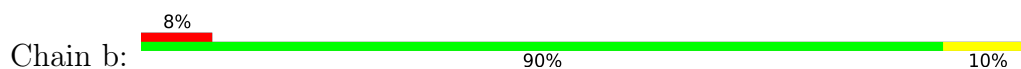


- Molecule 12: Nup37

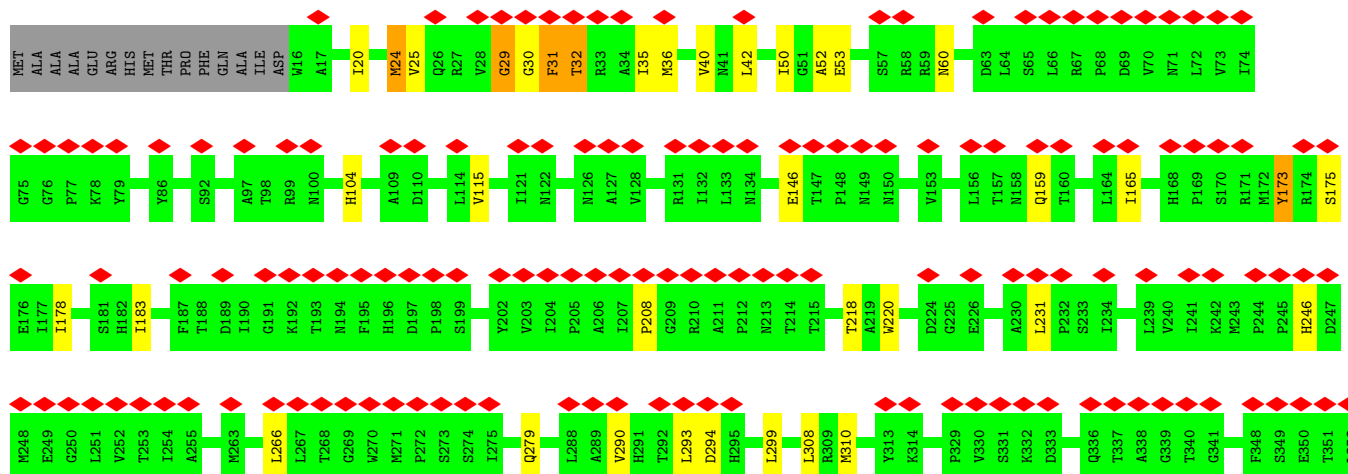
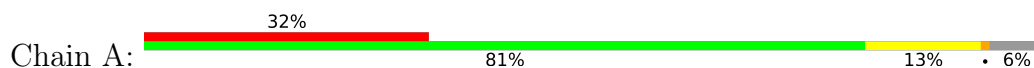


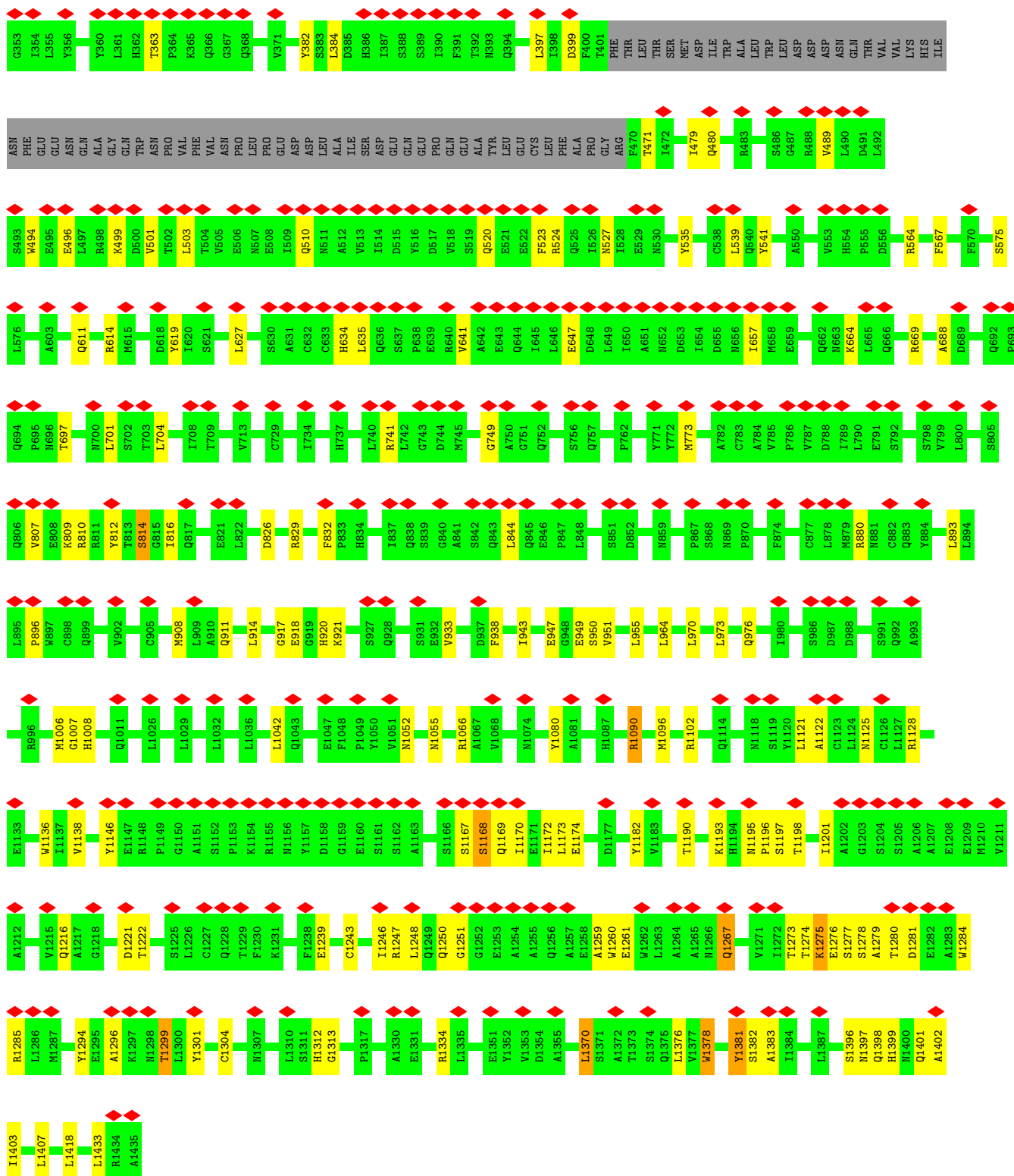


• Molecule 12: Nup37



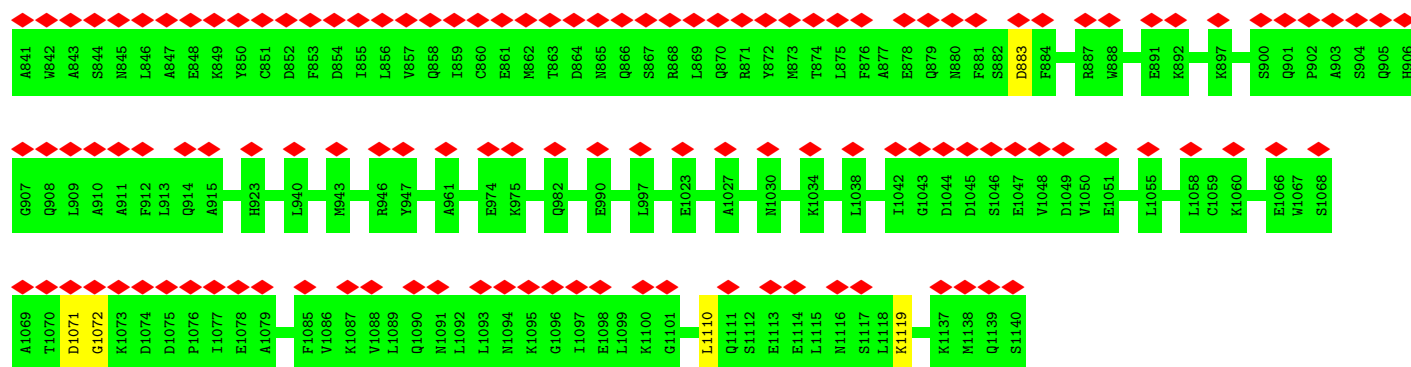
• Molecule 13: Nup160



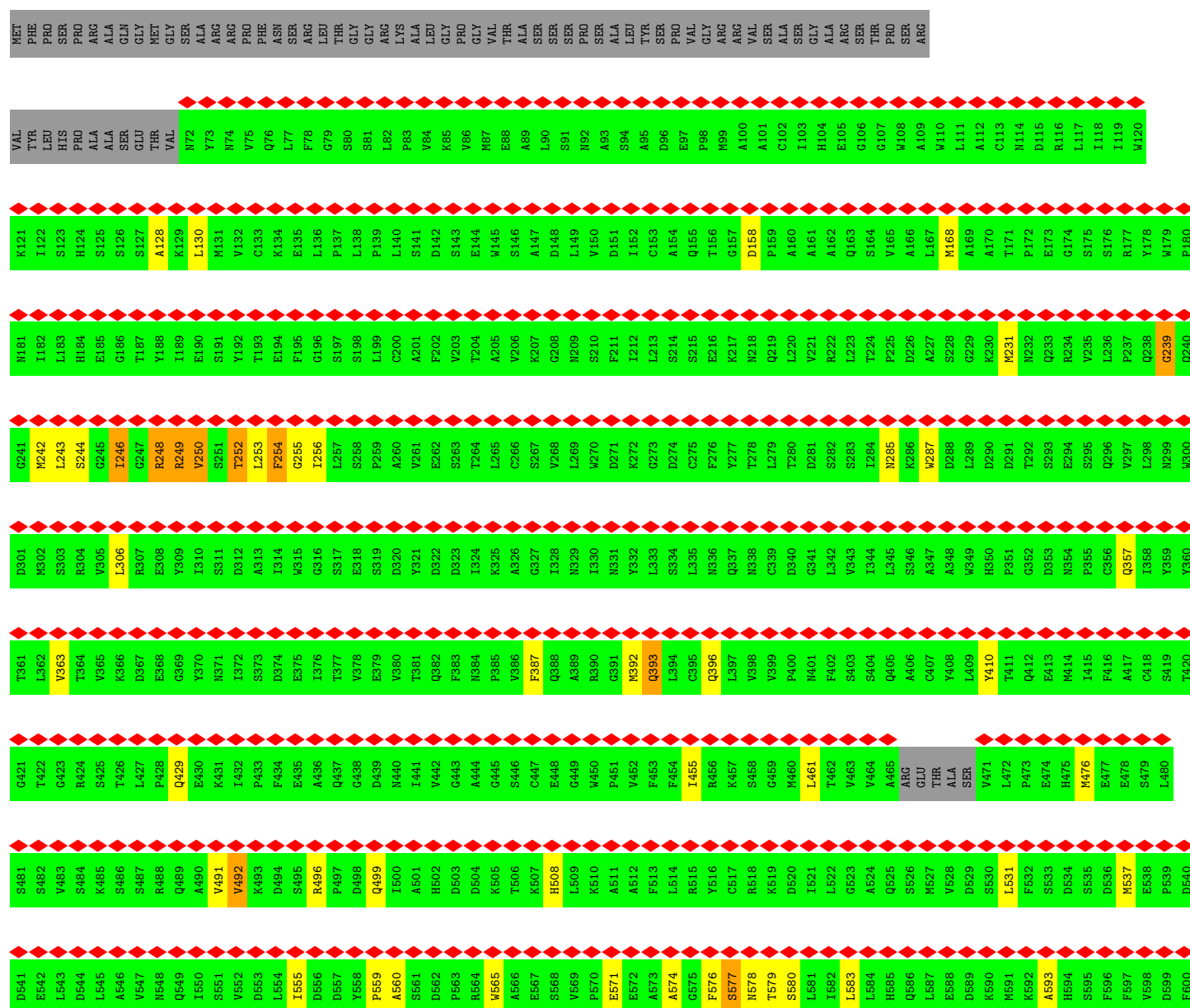
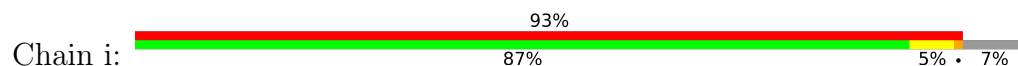


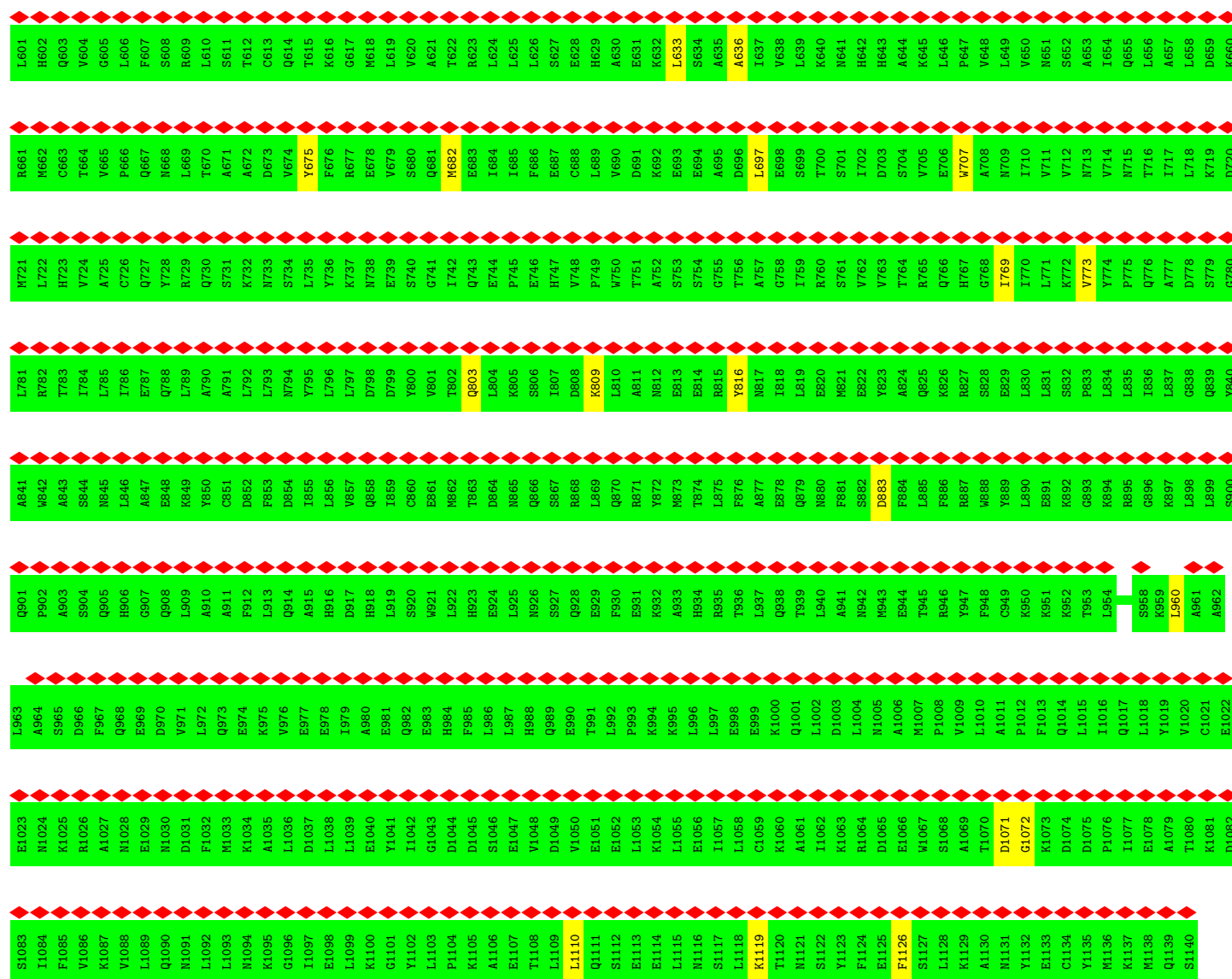


L781	M721	R661	L601	D541	S481
R782	L722	M662	H602	E542	S482
R783	H723	C663	G603	L543	V483
I784	V724	T664	V604	D544	S484
L785	A725	V665	G605	L545	K485
I786	C726	P666	L606	A546	S486
Q787	Q727	Q667	F607	V547	S487
Q788	V728	M668	S608	N548	R488
L789	R729	L669	H609	Q549	Q489
A790	Q730	T670	L610	I550	A490
A791	S731	A671	S611	S551	V491
L792	K732	A672	T612	V552	V492
L793	N733	D673	C613	D553	K493
A794	S734	V674	Q614	L554	D494
V795	L735	V675	T615	I555	S495
L796	V736	F676	G616	D556	R496
Q797	K737	R677	G617	D557	P497
D798	N738	E678	H618	V558	D498
D799	E739	V679	L619	P559	Q499
Y800	S740	S680	V620	A560	I500
T802	I742	Q681	A621	S561	A501
Q803	Q743	M682	T622	D562	H502
L804	E744	E683	H623	P563	D503
K805	P745	L684	L624	R564	D504
S806	E746	L685	L625	V565	K505
I807	H747	F686	L626	A566	T506
D808	V748	E687	S627	E567	K507
K809	P749	C688	E628	S568	H508
L810	W750	L689	H629	V569	L509
A811	T751	V690	A630	P570	K510
N812	A752	D691	E631	E571	A511
E813	S753	K692	K632	E572	A512
E814	S754	E693	L633	A573	F513
R815	T755	E694	S634	A574	L514
Y816	G756	A695	A635	G575	R515
N817	T756	D696	A636	F576	Y516
I818	A757	L697	T637	S577	C517
L819	G758	E698	V638	N578	R518
E820	I759	S699	L639	T579	K519
M821	R760	T700	K640	S580	D520
E822	S761	S701	N641	L581	I521
R823	V762	L702	H642	T582	L522
A824	V763	D703	H643	L583	G523
Q825	T764	S704	A644	L584	A524
K826	R765	V705	K645	H585	Q525
R827	Q766	E706	L646	Q586	S526
S828	H767	W707	P647	L587	M527
E829	G768	A708	V648	E588	V528
L830	I769	N709	L649	D589	D529
L831	L770	L710	V650	K590	S530
S832	L771	V711	N651	M591	L531
P833	K772	N712	S652	K592	F532
L834	V773	V713	A653	A593	S533
L835	V774	V714	T654	H594	D534
I836	P775	N715	Q655	S595	S535
L837	Q776	T716	L656	F596	D536
Q838	A777	I717	A657	F597	M537
R839	D778	L718	L658	V598	E538
E840	S779	K719	D659	D599	P539
	Q780	R720	V660	F500	E540

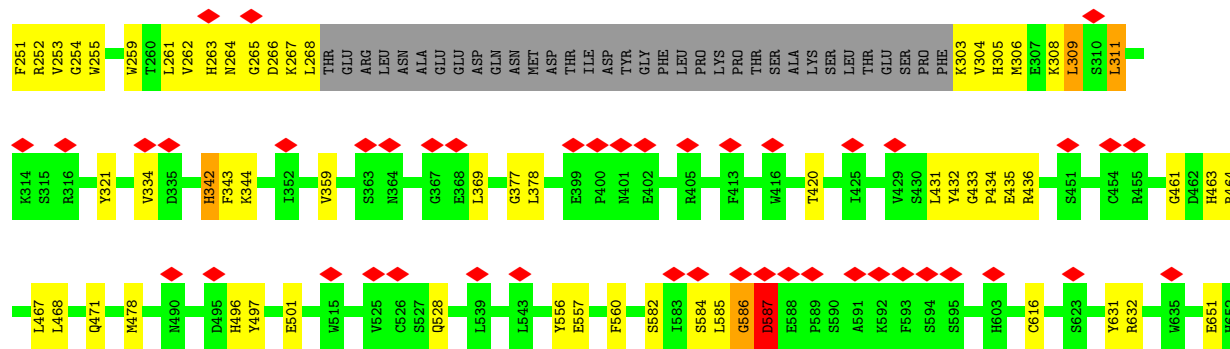
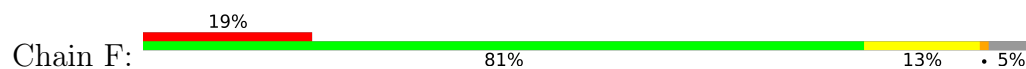


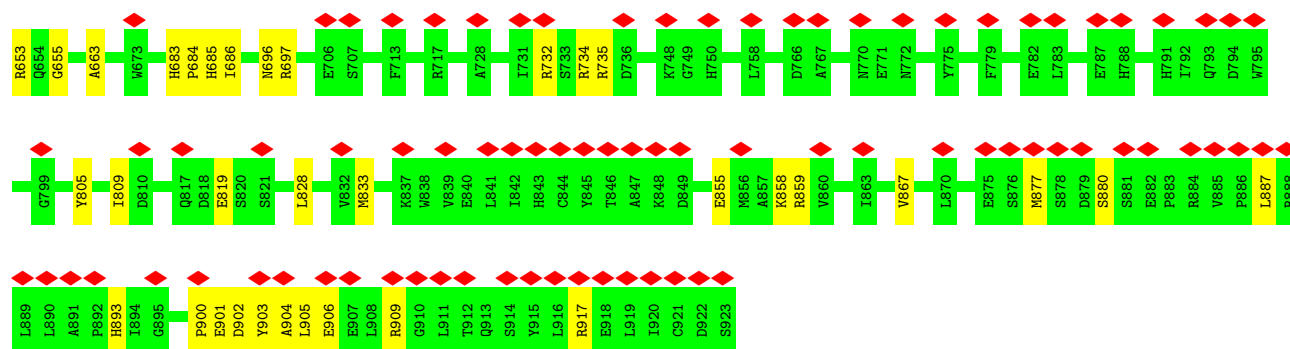
• Molecule 14: Nup133



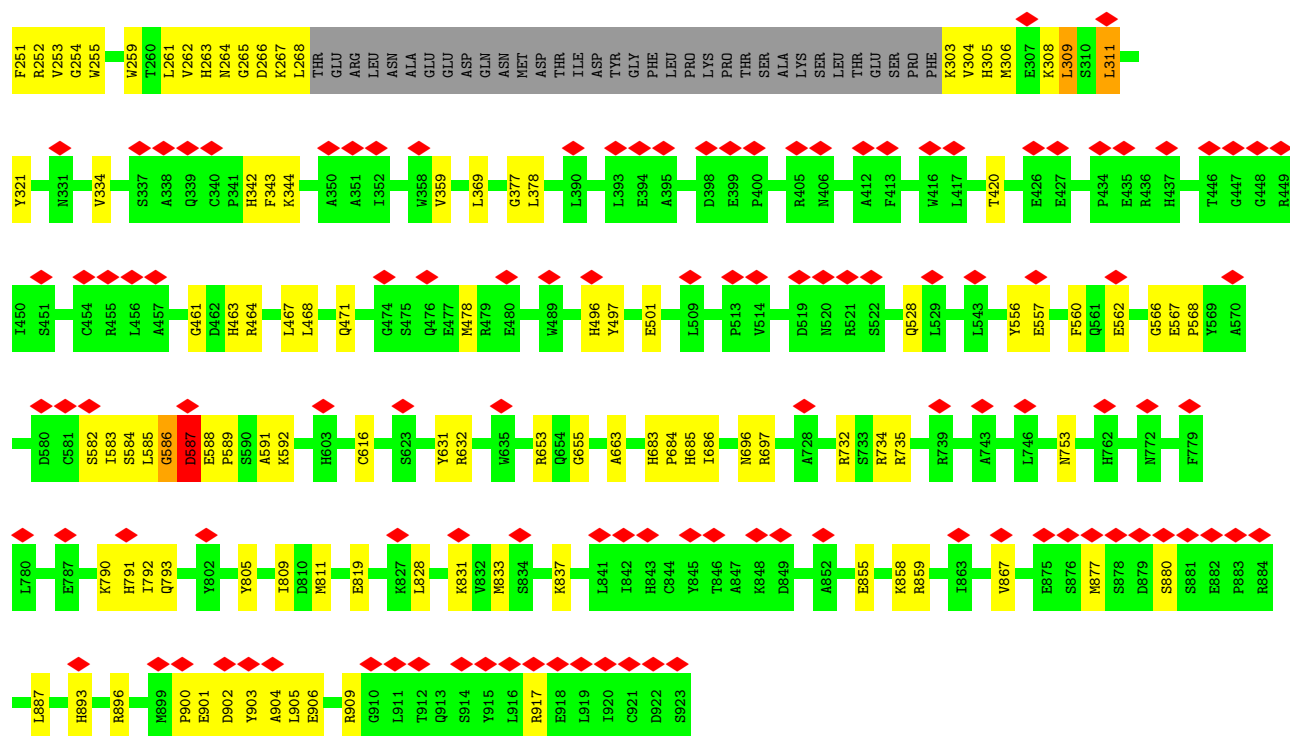
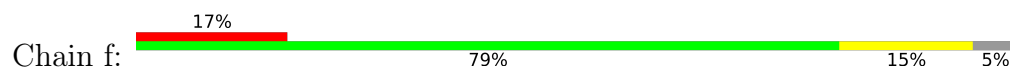


• Molecule 15: Nuclear pore complex protein Nup96





• Molecule 15: Nuclear pore complex protein Nup96



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	333214	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	1.25	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	4.753	Depositor
Minimum map value	-0.227	Depositor
Average map value	0.018	Depositor
Map value standard deviation	0.092	Depositor
Recommended contour level	0.366	Depositor
Map size (Å)	840.0, 840.0, 840.0	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.8, 2.8, 2.8	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	H	0.73	0/6553	1.21	6/8867 (0.1%)
1	h	0.73	0/6553	1.21	6/8867 (0.1%)
2	T	0.71	1/1086 (0.1%)	1.25	1/1457 (0.1%)
2	t	0.66	0/247	1.28	0/333
3	S	1.04	1/1178 (0.1%)	1.47	1/1567 (0.1%)
3	s	0.73	0/258	1.20	0/343
4	R	0.71	0/5490	1.17	3/7427 (0.0%)
4	r	0.70	0/3755	1.14	1/5107 (0.0%)
5	G	0.69	0/2454	1.13	3/3349 (0.1%)
5	g	0.69	0/2454	1.13	3/3349 (0.1%)
6	L	0.79	0/16272	1.30	27/22021 (0.1%)
6	l	0.79	0/16272	1.30	27/22021 (0.1%)
7	E	0.71	0/2592	1.16	3/3515 (0.1%)
7	e	0.71	0/2592	1.16	4/3515 (0.1%)
8	D	0.72	0/2996	1.22	3/4074 (0.1%)
8	d	0.72	0/2996	1.22	3/4074 (0.1%)
9	C	0.73	0/5377	1.22	2/7265 (0.0%)
9	c	1.20	84/5376 (1.6%)	1.44	82/7265 (1.1%)
10	U	0.71	0/2977	1.21	0/4032
11	M	0.74	0/6555	1.24	4/8864 (0.0%)
11	N	0.74	0/6555	1.24	4/8864 (0.0%)
11	O	0.74	0/6555	1.24	4/8864 (0.0%)
11	P	0.74	0/6555	1.24	4/8864 (0.0%)
11	Q	0.74	0/6555	1.24	4/8864 (0.0%)
12	B	0.70	0/2643	1.10	0/3587
12	b	0.70	0/2643	1.10	0/3587
13	A	0.75	0/10962	1.23	11/14884 (0.1%)
13	a	0.74	0/10962	1.23	11/14884 (0.1%)
14	I	0.73	0/5475	1.24	1/7398 (0.0%)
14	i	0.72	0/8561	1.21	6/11601 (0.1%)
15	F	0.77	0/5338	1.26	5/7245 (0.1%)
15	f	0.77	0/5338	1.25	4/7245 (0.1%)
All	All	0.76	86/172175 (0.0%)	1.24	233/233199 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	H	0	1
1	h	0	1
2	T	0	1
4	R	0	4
4	r	0	3
6	L	0	18
6	l	0	18
8	D	0	7
8	d	0	7
9	C	0	2
9	c	0	41
10	U	0	1
11	M	0	3
11	N	0	3
11	O	0	3
11	P	0	3
11	Q	0	3
12	B	0	3
12	b	0	3
13	A	0	11
13	a	0	11
14	I	0	5
14	i	0	12
15	F	0	2
15	f	0	2
All	All	0	168

All (86) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	S	736	SER	C-N	27.04	1.71	1.33
9	c	393	GLY	C-N	15.72	1.54	1.33
9	c	615	PRO	N-CD	-11.84	1.31	1.47
9	c	59	SER	C-N	11.00	1.48	1.33
9	c	335	ALA	C-N	10.78	1.49	1.33
9	c	1	MET	C-N	10.72	1.48	1.33
9	c	539	TYR	C-N	-9.32	1.21	1.33
9	c	615	PRO	C-N	9.27	1.46	1.33
9	c	91	GLY	C-N	9.20	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	c	568	PRO	N-CD	-9.12	1.34	1.47
9	c	621	GLN	C-N	9.07	1.47	1.33
9	c	114	GLU	C-N	-9.04	1.22	1.33
9	c	89	ALA	C-N	8.91	1.46	1.33
9	c	632	MET	C-N	-8.87	1.21	1.33
9	c	515	THR	C-N	8.82	1.44	1.33
9	c	39	TYR	C-N	8.67	1.45	1.33
9	c	251	GLU	C-N	-8.51	1.23	1.33
9	c	124	ARG	C-N	8.45	1.45	1.33
9	c	185	SER	C-N	-8.27	1.23	1.33
9	c	26	SER	C-N	8.15	1.45	1.33
9	c	564	ALA	C-N	-7.83	1.22	1.33
9	c	2	GLU	C-N	7.78	1.44	1.33
9	c	513	ASN	C-N	7.76	1.44	1.33
9	c	604	ASP	C-N	-7.71	1.24	1.33
9	c	158	GLY	C-N	7.59	1.43	1.33
9	c	319	PRO	N-CD	7.56	1.58	1.47
9	c	222	ALA	C-N	7.35	1.43	1.33
9	c	46	GLU	C-N	7.31	1.44	1.33
9	c	187	LYS	C-N	-7.17	1.24	1.34
9	c	53	PHE	C-N	-7.01	1.23	1.33
9	c	342	PRO	N-CD	7.00	1.57	1.47
9	c	651	LEU	C-N	6.94	1.44	1.33
9	c	156	PRO	N-CD	6.93	1.57	1.47
9	c	391	TYR	C-N	6.85	1.42	1.33
9	c	295	LYS	C-N	-6.69	1.25	1.34
9	c	498	THR	C-N	-6.53	1.25	1.33
9	c	122	SER	C-N	6.50	1.42	1.33
9	c	459	GLN	C-N	-6.49	1.25	1.33
9	c	18	GLN	C-N	6.47	1.42	1.33
9	c	336	GLY	C-N	6.47	1.43	1.33
9	c	565	ARG	C-N	6.46	1.41	1.33
9	c	649	GLY	C-N	6.45	1.42	1.34
9	c	242	HIS	C-N	6.43	1.42	1.33
9	c	563	THR	C-N	6.40	1.43	1.33
9	c	83	GLN	C-N	-6.39	1.24	1.33
9	c	181	ASP	C-N	-6.27	1.25	1.33
9	c	528	LEU	C-N	-6.22	1.25	1.33
2	T	380	ALA	C-N	6.22	1.42	1.33
9	c	367	SER	C-N	6.21	1.42	1.33
9	c	255	LYS	C-N	-6.04	1.26	1.33
9	c	142	LEU	C-N	-6.00	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	c	11	THR	C-N	5.98	1.40	1.33
9	c	618	ILE	C-N	5.96	1.41	1.33
9	c	322	LEU	C-N	-5.95	1.26	1.33
9	c	96	ALA	C-N	-5.94	1.26	1.33
9	c	55	TYR	C-N	-5.89	1.25	1.33
9	c	159	PRO	N-CD	5.81	1.55	1.47
9	c	369	TRP	C-N	5.80	1.41	1.33
9	c	17	GLY	C-N	5.74	1.41	1.33
9	c	42	GLN	C-N	5.70	1.41	1.33
9	c	452	LEU	C-N	-5.65	1.26	1.33
9	c	308	SER	C-N	-5.61	1.26	1.33
9	c	507	GLU	C-N	-5.57	1.26	1.33
9	c	303	TYR	C-N	5.47	1.41	1.33
9	c	259	TRP	C-N	-5.43	1.26	1.33
9	c	29	PRO	C-N	-5.40	1.25	1.33
9	c	511	ARG	C-N	5.34	1.42	1.33
9	c	162	ILE	C-N	-5.30	1.26	1.33
9	c	44	ASN	C-N	5.27	1.41	1.33
9	c	344	ASP	C-N	-5.27	1.26	1.33
9	c	235	LEU	C-N	-5.24	1.27	1.33
9	c	85	SER	C-N	5.19	1.41	1.33
9	c	221	SER	C-N	5.16	1.40	1.33
9	c	360	LYS	C-N	-5.15	1.26	1.33
9	c	542	PHE	C-N	-5.15	1.26	1.33
9	c	67	VAL	C-N	-5.09	1.26	1.34
9	c	168	VAL	C-N	-5.08	1.27	1.33
9	c	502	ASP	C-N	-5.07	1.27	1.33
9	c	90	SER	C-N	5.07	1.40	1.33
9	c	518	ASP	C-N	-5.05	1.27	1.33
9	c	61	GLU	C-N	5.03	1.40	1.34
9	c	535	PHE	C-N	-5.03	1.27	1.33
9	c	174	GLU	C-N	-5.02	1.27	1.33
9	c	252	PHE	C-N	-5.02	1.27	1.33
9	c	325	TYR	C-N	-5.02	1.27	1.33
9	c	123	THR	C-N	5.00	1.40	1.33

All (233) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	S	736	SER	O-C-N	-32.83	79.05	122.38
9	c	387	ALA	O-C-N	-24.90	89.47	122.59
9	c	2	GLU	O-C-N	-23.81	90.92	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	c	3	GLU	O-C-N	-21.67	93.77	122.59
9	c	620	LYS	O-C-N	-18.76	104.48	123.62
9	c	619	GLN	O-C-N	-17.72	99.24	122.28
9	c	48	ALA	O-C-N	-17.65	99.11	122.59
9	c	4	LEU	O-C-N	-15.68	101.74	122.59
9	c	18	GLN	O-C-N	-15.66	102.07	122.43
9	c	47	THR	O-C-N	-15.41	103.83	122.63
9	c	243	THR	O-C-N	-14.63	103.13	122.59
9	c	5	ASP	O-C-N	-14.51	103.29	122.59
9	c	1	MET	O-C-N	-13.76	100.99	123.00
9	c	618	ILE	O-C-N	-13.71	105.44	122.57
9	c	42	GLN	O-C-N	-13.55	103.71	122.41
9	c	613	THR	O-C-N	-13.01	107.23	122.84
9	c	388	HIS	O-C-N	-12.11	106.48	122.59
9	c	45	SER	O-C-N	-12.04	105.79	122.41
9	c	620	LYS	CA-C-N	11.35	143.21	121.54
9	c	620	LYS	C-N-CA	11.35	143.21	121.54
9	c	49	ALA	O-C-N	-10.19	109.04	122.59
9	c	616	ASP	O-C-N	-10.13	110.19	122.34
9	c	45	SER	CA-C-N	9.82	140.30	121.54
9	c	45	SER	C-N-CA	9.82	140.30	121.54
9	c	4	LEU	CA-C-N	9.70	140.07	121.54
9	c	4	LEU	C-N-CA	9.70	140.07	121.54
9	c	621	GLN	O-C-N	-9.27	110.27	122.59
9	c	385	PHE	O-C-N	-9.17	111.59	122.87
6	l	1920	GLN	CA-C-N	9.05	137.99	121.70
6	l	1920	GLN	C-N-CA	9.05	137.99	121.70
6	L	1920	GLN	CA-C-N	9.02	137.94	121.70
6	L	1920	GLN	C-N-CA	9.02	137.94	121.70
9	c	614	SER	CA-C-N	8.87	130.92	119.84
9	c	614	SER	C-N-CA	8.87	130.92	119.84
9	c	43	GLY	CA-C-N	8.86	138.46	121.54
9	c	43	GLY	C-N-CA	8.86	138.46	121.54
9	c	87	GLU	O-C-N	-8.55	110.57	122.37
9	c	386	GLN	O-C-N	-8.53	111.25	122.59
9	c	46	GLU	CA-C-N	-8.06	110.84	122.77
9	c	46	GLU	C-N-CA	-8.06	110.84	122.77
9	c	43	GLY	O-C-N	-7.98	112.32	122.70
9	c	425	CYS	CA-C-N	7.87	127.42	118.85
9	c	425	CYS	C-N-CA	7.87	127.42	118.85
9	c	41	LYS	O-C-N	-7.48	112.30	122.48
9	c	514	PHE	O-C-N	-7.39	114.58	123.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	c	59	SER	O-C-N	-7.37	112.76	122.42
9	c	390	LEU	CA-C-N	7.30	132.39	120.63
9	c	390	LEU	C-N-CA	7.30	132.39	120.63
9	c	122	SER	O-C-N	-7.27	113.96	122.32
6	L	1939	ASN	CA-C-N	7.03	130.73	120.82
6	L	1939	ASN	C-N-CA	7.03	130.73	120.82
6	l	1939	ASN	CA-C-N	7.00	130.70	120.82
6	l	1939	ASN	C-N-CA	7.00	130.70	120.82
15	F	586	GLY	CA-C-N	7.00	134.91	121.54
15	F	586	GLY	C-N-CA	7.00	134.91	121.54
15	f	586	GLY	CA-C-N	6.96	134.83	121.54
15	f	586	GLY	C-N-CA	6.96	134.83	121.54
9	c	564	ALA	CA-C-N	6.90	132.22	122.08
9	c	564	ALA	C-N-CA	6.90	132.22	122.08
9	c	336	GLY	O-C-N	-6.86	113.43	122.28
9	c	386	GLN	CA-C-N	6.79	134.51	121.54
9	c	386	GLN	C-N-CA	6.79	134.51	121.54
13	A	279	GLN	OE1-CD-NE2	-6.79	115.81	122.60
13	a	1299	THR	CA-C-N	6.77	130.98	120.82
13	a	1299	THR	C-N-CA	6.77	130.98	120.82
9	c	59	SER	CA-C-N	-6.77	112.72	122.67
9	c	59	SER	C-N-CA	-6.77	112.72	122.67
13	A	1299	THR	CA-C-N	6.75	130.95	120.82
13	A	1299	THR	C-N-CA	6.75	130.95	120.82
9	c	514	PHE	CA-C-N	6.74	129.86	120.29
9	c	514	PHE	C-N-CA	6.74	129.86	120.29
13	a	279	GLN	OE1-CD-NE2	-6.65	115.95	122.60
4	R	243	HIS	N-CA-C	6.56	120.86	112.86
4	r	243	HIS	N-CA-C	6.56	120.86	112.86
6	L	291	ARG	NE-CZ-NH2	6.46	125.02	119.20
1	H	410	GLN	OE1-CD-NE2	-6.45	116.15	122.60
8	d	303	SER	CA-C-N	6.43	131.61	122.09
8	d	303	SER	C-N-CA	6.43	131.61	122.09
8	D	303	SER	CA-C-N	6.43	131.60	122.09
8	D	303	SER	C-N-CA	6.43	131.60	122.09
6	l	291	ARG	NE-CZ-NH2	6.42	124.97	119.20
1	h	410	GLN	OE1-CD-NE2	-6.37	116.23	122.60
6	L	1929	PHE	CA-C-N	6.30	133.05	121.70
6	L	1929	PHE	C-N-CA	6.30	133.05	121.70
11	O	199	ASP	CA-CB-CG	-6.29	106.31	112.60
6	l	1929	PHE	CA-C-N	6.28	133.01	121.70
6	l	1929	PHE	C-N-CA	6.28	133.01	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	P	199	ASP	CA-CB-CG	-6.28	106.32	112.60
9	c	615	PRO	O-C-N	-6.27	114.18	122.64
11	N	199	ASP	CA-CB-CG	-6.24	106.36	112.60
11	M	199	ASP	CA-CB-CG	-6.23	106.37	112.60
11	Q	199	ASP	CA-CB-CG	-6.22	106.38	112.60
9	c	390	LEU	O-C-N	-6.18	115.21	122.81
13	a	814	SER	CA-C-N	6.09	126.75	120.60
13	a	814	SER	C-N-CA	6.09	126.75	120.60
13	A	814	SER	CA-C-N	6.09	126.75	120.60
13	A	814	SER	C-N-CA	6.09	126.75	120.60
6	L	1936	ASP	N-CA-C	6.04	123.67	110.80
6	l	1936	ASP	N-CA-C	6.04	123.67	110.80
9	c	238	MET	O-C-N	5.99	126.52	121.31
7	E	198	GLN	OE1-CD-NE2	-5.96	116.64	122.60
9	c	17	GLY	O-C-N	-5.93	114.99	122.70
9	c	317	VAL	O-C-N	5.92	128.71	122.67
7	e	198	GLN	OE1-CD-NE2	-5.90	116.70	122.60
6	l	1927	MET	CA-C-N	5.87	132.10	121.06
6	l	1927	MET	C-N-CA	5.87	132.10	121.06
9	c	2	GLU	CA-C-N	5.87	132.75	121.54
9	c	2	GLU	C-N-CA	5.87	132.75	121.54
6	L	1927	MET	CA-C-N	5.87	132.09	121.06
6	L	1927	MET	C-N-CA	5.87	132.09	121.06
14	i	803	GLN	OE1-CD-NE2	-5.65	116.95	122.60
6	L	1753	GLN	OE1-CD-NE2	-5.64	116.96	122.60
6	l	1753	GLN	OE1-CD-NE2	-5.62	116.98	122.60
13	a	159	GLN	OE1-CD-NE2	-5.61	116.99	122.60
13	A	159	GLN	OE1-CD-NE2	-5.60	117.00	122.60
14	I	803	GLN	OE1-CD-NE2	-5.59	117.01	122.60
9	c	52	PRO	CA-C-N	-5.59	112.76	122.37
9	c	52	PRO	C-N-CA	-5.59	112.76	122.37
9	c	187	LYS	CA-C-N	5.55	125.22	119.05
9	c	187	LYS	C-N-CA	5.55	125.22	119.05
2	T	416	GLN	OE1-CD-NE2	-5.55	117.05	122.60
9	c	618	ILE	CA-C-N	-5.55	114.88	122.87
9	c	618	ILE	C-N-CA	-5.55	114.88	122.87
9	c	395	ASN	O-C-N	-5.54	116.70	122.96
5	g	171	PRO	CA-C-N	5.53	132.09	121.54
5	g	171	PRO	C-N-CA	5.53	132.09	121.54
1	h	117	LEU	CA-C-N	5.48	132.00	121.54
1	h	117	LEU	C-N-CA	5.48	132.00	121.54
5	G	171	PRO	CA-C-N	5.47	132.00	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	G	171	PRO	C-N-CA	5.47	132.00	121.54
9	c	478	ASN	CA-C-N	5.47	130.34	122.40
9	c	478	ASN	C-N-CA	5.47	130.34	122.40
1	H	117	LEU	CA-C-N	5.46	131.98	121.54
1	H	117	LEU	C-N-CA	5.46	131.98	121.54
1	h	570	ARG	CD-NE-CZ	5.45	132.03	124.40
6	L	1920	GLN	O-C-N	-5.44	115.35	122.59
9	C	416	GLN	OE1-CD-NE2	-5.44	117.16	122.60
14	i	393	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	H	570	ARG	CD-NE-CZ	5.43	132.00	124.40
6	l	1937	THR	CA-C-N	5.42	131.89	121.54
6	l	1937	THR	C-N-CA	5.42	131.89	121.54
6	L	1937	THR	CA-C-N	5.39	131.84	121.54
6	L	1937	THR	C-N-CA	5.39	131.84	121.54
11	P	498	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	h	205	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	H	539	ARG	NE-CZ-NH2	5.37	124.04	119.20
6	L	1191	ASN	OD1-CG-ND2	-5.37	117.23	122.60
8	d	371	ARG	NE-CZ-NH2	5.35	124.02	119.20
6	l	1920	GLN	O-C-N	-5.35	115.47	122.59
15	f	587	ASP	N-CA-C	5.34	122.19	110.80
6	L	497	GLN	OE1-CD-NE2	-5.34	117.26	122.60
11	N	498	GLN	OE1-CD-NE2	-5.34	117.26	122.60
6	L	1936	ASP	CA-C-N	5.34	131.74	121.54
6	L	1936	ASP	C-N-CA	5.34	131.74	121.54
9	c	387	ALA	CA-C-N	-5.33	111.35	121.54
9	c	387	ALA	C-N-CA	-5.33	111.35	121.54
15	F	587	ASP	N-CA-C	5.33	122.16	110.80
6	l	1191	ASN	OD1-CG-ND2	-5.33	117.27	122.60
1	h	539	ARG	NE-CZ-NH2	5.33	123.99	119.20
6	L	1617	GLN	OE1-CD-NE2	-5.32	117.28	122.60
6	l	1936	ASP	CA-C-N	5.31	131.69	121.54
6	l	1936	ASP	C-N-CA	5.31	131.69	121.54
6	l	497	GLN	OE1-CD-NE2	-5.31	117.29	122.60
11	M	498	GLN	OE1-CD-NE2	-5.31	117.29	122.60
6	l	1617	GLN	OE1-CD-NE2	-5.31	117.29	122.60
8	D	371	ARG	NE-CZ-NH2	5.30	123.97	119.20
11	O	498	GLN	OE1-CD-NE2	-5.30	117.30	122.60
9	c	416	GLN	O-C-N	5.29	128.18	122.15
11	Q	498	GLN	OE1-CD-NE2	-5.29	117.31	122.60
6	L	1855	GLN	OE1-CD-NE2	-5.28	117.32	122.60
14	i	250	VAL	CA-C-N	5.28	128.35	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	i	250	VAL	C-N-CA	5.28	128.35	120.90
6	l	1855	GLN	OE1-CD-NE2	-5.27	117.33	122.60
9	C	548	GLN	OE1-CD-NE2	-5.25	117.35	122.60
6	L	1937	THR	N-CA-C	5.25	121.98	110.80
9	c	47	THR	CA-C-N	5.23	131.53	121.54
9	c	47	THR	C-N-CA	5.23	131.53	121.54
6	l	1937	THR	N-CA-C	5.23	121.94	110.80
15	F	528	GLN	OE1-CD-NE2	-5.22	117.38	122.60
13	a	24	MET	CA-C-N	5.22	131.36	121.97
13	a	24	MET	C-N-CA	5.22	131.36	121.97
6	l	1314	GLN	OE1-CD-NE2	-5.22	117.38	122.60
1	H	205	GLN	OE1-CD-NE2	-5.21	117.39	122.60
13	A	911	GLN	OE1-CD-NE2	-5.21	117.39	122.60
13	A	949	GLU	CA-C-N	5.21	131.48	121.54
13	A	949	GLU	C-N-CA	5.21	131.48	121.54
13	a	949	GLU	CA-C-N	5.21	131.48	121.54
13	a	949	GLU	C-N-CA	5.21	131.48	121.54
6	l	1729	GLN	OE1-CD-NE2	-5.20	117.40	122.60
9	c	88	GLU	O-C-N	-5.20	116.62	122.34
13	A	24	MET	CA-C-N	5.19	131.32	121.97
13	A	24	MET	C-N-CA	5.19	131.32	121.97
5	G	172	SER	N-CA-C	5.17	121.82	110.80
15	f	528	GLN	OE1-CD-NE2	-5.17	117.42	122.60
5	g	172	SER	N-CA-C	5.17	121.81	110.80
6	l	797	PRO	N-CA-CB	5.17	106.08	103.19
13	a	911	GLN	OE1-CD-NE2	-5.17	117.43	122.60
6	l	1163	SER	N-CA-C	5.16	121.80	110.80
6	L	1314	GLN	OE1-CD-NE2	-5.15	117.45	122.60
11	M	236	GLN	OE1-CD-NE2	-5.15	117.45	122.60
6	L	1163	SER	N-CA-C	5.15	121.76	110.80
4	R	653	GLN	OE1-CD-NE2	-5.13	117.47	122.60
11	P	236	GLN	OE1-CD-NE2	-5.13	117.47	122.60
6	L	1996	GLN	OE1-CD-NE2	-5.12	117.48	122.60
11	N	350	ARG	NE-CZ-NH2	5.12	123.81	119.20
6	L	1729	GLN	OE1-CD-NE2	-5.12	117.48	122.60
9	c	295	LYS	CA-C-N	5.12	127.85	120.38
9	c	295	LYS	C-N-CA	5.12	127.85	120.38
11	N	236	GLN	OE1-CD-NE2	-5.12	117.48	122.60
9	c	512	GLY	O-C-N	-5.11	115.72	122.42
6	l	1509	GLN	OE1-CD-NE2	-5.11	117.49	122.60
14	i	357	GLN	OE1-CD-NE2	-5.11	117.49	122.60
7	E	94	ASN	CA-C-N	5.10	131.28	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	E	94	ASN	C-N-CA	5.10	131.28	121.54
9	c	11	THR	O-C-N	5.10	126.23	120.83
11	O	350	ARG	NE-CZ-NH2	5.10	123.79	119.20
9	c	389	ASN	O-C-N	-5.10	115.81	122.59
11	M	350	ARG	NE-CZ-NH2	5.08	123.77	119.20
7	e	94	ASN	CA-C-N	5.08	131.24	121.54
7	e	94	ASN	C-N-CA	5.08	131.24	121.54
11	O	236	GLN	OE1-CD-NE2	-5.07	117.53	122.60
11	Q	236	GLN	OE1-CD-NE2	-5.07	117.53	122.60
6	L	1509	GLN	OE1-CD-NE2	-5.06	117.54	122.60
6	l	1996	GLN	OE1-CD-NE2	-5.05	117.55	122.60
11	Q	507	ASP	CA-CB-CG	5.04	117.64	112.60
6	L	797	PRO	N-CA-CB	5.04	106.01	103.19
9	c	614	SER	O-C-N	-5.03	115.54	121.32
4	R	679	GLN	OE1-CD-NE2	-5.03	117.57	122.60
14	i	429	GLN	OE1-CD-NE2	-5.03	117.57	122.60
15	F	342	HIS	CB-CG-CD2	-5.02	124.68	131.20
7	e	287	ASN	OD1-CG-ND2	-5.01	117.59	122.60
9	c	368	ASN	O-C-N	-5.01	117.50	123.22
11	P	350	ARG	NE-CZ-NH2	5.00	123.70	119.20

There are no chirality outliers.

All (168) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
13	A	1090	ARG	Sidechain
13	A	1267	GLN	Peptide
13	A	1381	TYR	Sidechain
13	A	173	TYR	Sidechain
13	A	208	PRO	Peptide
13	A	29	GLY	Peptide
13	A	30	GLY	Peptide
13	A	541	TYR	Sidechain
13	A	614	ARG	Sidechain
13	A	669	ARG	Sidechain
13	A	880	ARG	Sidechain
12	B	1	MET	Peptide
12	B	134	SER	Peptide
12	B	150	ARG	Sidechain
9	C	39	TYR	Peptide
9	C	41	LYS	Peptide
8	D	149	ARG	Sidechain

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Mol	Chain	Res	Type	Group
8	D	298	LEU	Peptide
8	D	299	LEU	Peptide
8	D	301	GLY	Peptide
8	D	302	ARG	Peptide
8	D	304	THR	Peptide
8	D	53	PHE	Peptide
15	F	556	TYR	Sidechain
15	F	877	MET	Peptide
1	H	117	LEU	Peptide
14	I	491	VAL	Peptide
14	I	492	VAL	Peptide
14	I	574	ALA	Peptide
14	I	577	SER	Peptide
14	I	675	TYR	Sidechain
6	L	1155	GLY	Peptide
6	L	1158	GLU	Peptide
6	L	1162	ARG	Peptide
6	L	1164	LEU	Peptide
6	L	1168	LEU	Peptide
6	L	1178	ARG	Sidechain
6	L	1362	GLY	Peptide
6	L	153	ARG	Sidechain
6	L	1561	ARG	Sidechain
6	L	1924	PHE	Peptide
6	L	1926	ASN	Peptide
6	L	1931	ASN	Peptide
6	L	1932	ARG	Peptide
6	L	1936	ASP	Peptide
6	L	1937	THR	Peptide
6	L	1938	PHE	Peptide
6	L	1951	GLN	Peptide
6	L	577	HIS	Peptide
11	M	526	ARG	Sidechain
11	M	769	VAL	Peptide
11	M	771	THR	Peptide
11	N	526	ARG	Sidechain
11	N	769	VAL	Peptide
11	N	771	THR	Peptide
11	O	526	ARG	Sidechain
11	O	769	VAL	Peptide
11	O	771	THR	Peptide
11	P	526	ARG	Sidechain

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Mol	Chain	Res	Type	Group
11	P	769	VAL	Peptide
11	P	771	THR	Peptide
11	Q	526	ARG	Sidechain
11	Q	769	VAL	Peptide
11	Q	771	THR	Peptide
4	R	211	PRO	Peptide
4	R	336	ASN	Peptide
4	R	337	LYS	Peptide
4	R	539	LYS	Peptide
2	T	380	ALA	Mainchain
10	U	1284	TYR	Sidechain
13	a	1090	ARG	Sidechain
13	a	1267	GLN	Peptide
13	a	1381	TYR	Sidechain
13	a	173	TYR	Sidechain
13	a	208	PRO	Peptide
13	a	29	GLY	Peptide
13	a	30	GLY	Peptide
13	a	541	TYR	Sidechain
13	a	614	ARG	Sidechain
13	a	669	ARG	Sidechain
13	a	880	ARG	Sidechain
12	b	1	MET	Peptide
12	b	134	SER	Peptide
12	b	150	ARG	Sidechain
9	c	1	MET	Mainchain
9	c	17	GLY	Mainchain
9	c	18	GLN	Mainchain
9	c	2	GLU	Mainchain
9	c	243	THR	Mainchain
9	c	245	GLY	Mainchain
9	c	3	GLU	Mainchain
9	c	337	ASP	Mainchain
9	c	338	SER	Mainchain
9	c	368	ASN	Mainchain
9	c	385	PHE	Mainchain
9	c	386	GLN	Mainchain
9	c	387	ALA	Mainchain
9	c	388	HIS	Mainchain
9	c	389	ASN	Mainchain
9	c	390	LEU	Mainchain
9	c	395	ASN	Mainchain

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Mol	Chain	Res	Type	Group
9	c	4	LEU	Mainchain
9	c	41	LYS	Mainchain
9	c	42	GLN	Mainchain
9	c	43	GLY	Mainchain
9	c	45	SER	Mainchain
9	c	47	THR	Mainchain
9	c	48	ALA	Mainchain
9	c	49	ALA	Mainchain
9	c	5	ASP	Mainchain
9	c	50	ARG	Mainchain
9	c	59	SER	Mainchain
9	c	6	VAL	Mainchain
9	c	613	THR	Mainchain
9	c	614	SER	Mainchain
9	c	615	PRO	Mainchain
9	c	616	ASP	Mainchain
9	c	618	ILE	Mainchain
9	c	619	GLN	Mainchain
9	c	620	LYS	Mainchain,Peptide
9	c	621	GLN	Mainchain
9	c	622	ASP	Mainchain
9	c	86	ALA	Mainchain
9	c	87	GLU	Mainchain
8	d	149	ARG	Sidechain
8	d	298	LEU	Peptide
8	d	299	LEU	Peptide
8	d	301	GLY	Peptide
8	d	302	ARG	Peptide
8	d	304	THR	Peptide
8	d	53	PHE	Peptide
15	f	556	TYR	Sidechain
15	f	877	MET	Peptide
1	h	117	LEU	Peptide
14	i	239	GLY	Peptide
14	i	246	ILE	Peptide
14	i	248	ARG	Peptide
14	i	249	ARG	Peptide
14	i	252	THR	Peptide
14	i	254	PHE	Peptide
14	i	255	GLY	Peptide
14	i	491	VAL	Peptide
14	i	492	VAL	Peptide

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Mol	Chain	Res	Type	Group
14	i	574	ALA	Peptide
14	i	577	SER	Peptide
14	i	675	TYR	Sidechain
6	l	1155	GLY	Peptide
6	l	1158	GLU	Peptide
6	l	1162	ARG	Peptide
6	l	1164	LEU	Peptide
6	l	1168	LEU	Peptide
6	l	1178	ARG	Sidechain
6	l	1362	GLY	Peptide
6	l	153	ARG	Sidechain
6	l	1561	ARG	Sidechain
6	l	1924	PHE	Peptide
6	l	1926	ASN	Peptide
6	l	1931	ASN	Peptide
6	l	1932	ARG	Peptide
6	l	1936	ASP	Peptide
6	l	1937	THR	Peptide
6	l	1938	PHE	Peptide
6	l	1951	GLN	Peptide
6	l	577	HIS	Peptide
4	r	336	ASN	Peptide
4	r	337	LYS	Peptide
4	r	539	LYS	Peptide

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	H	6421	6346	6342	288	0
1	h	6421	6346	6342	95	0
2	T	1076	1064	1049	625	0
2	t	244	235	230	223	0
3	S	1169	1164	1149	493	0
3	s	257	261	255	211	0
4	R	5390	5396	5377	1161	0
4	r	3675	3679	3663	405	0
5	G	2387	2270	2260	305	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	g	2387	2270	2256	317	0
6	L	15974	16156	16139	518	0
6	l	15974	16156	16148	291	0
7	E	2528	2445	2432	423	0
7	e	2528	2445	2442	318	0
8	D	2927	2800	2795	154	0
8	d	2927	2800	2794	179	0
9	C	5268	5226	5203	721	0
9	c	5267	0	5215	937	0
10	U	2912	2931	2923	212	0
11	M	6418	6444	6434	192	0
11	N	6418	6444	6442	90	0
11	O	6418	6444	6404	1120	0
11	P	6418	6444	6443	67	0
11	Q	6418	6444	6407	1120	0
12	B	2573	2503	2495	122	0
12	b	2573	2503	2494	145	0
13	A	10746	10745	10720	620	0
13	a	10746	10745	10718	671	0
14	I	5380	5353	5352	16	0
14	i	8398	8274	8272	25	0
15	F	5208	5128	5106	403	0
15	f	5208	5128	5103	492	0
All	All	168654	162589	167404	6833	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 20.

All (6833) 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)
7:E:90:VAL:HG12	8:D:127:MET:SD	1.24	1.75
3:s:1732:SER:HA	4:r:548:CYS:SG	1.20	1.70
11:O:786:THR:CG2	11:Q:578:ALA:HB1	1.22	1.68
6:L:1244:MET:SD	13:A:1285:ARG:HG3	1.27	1.67
7:e:90:VAL:HG12	8:d:127:MET:SD	1.24	1.65
4:R:363:PHE:CE1	4:R:551:LEU:HD13	1.20	1.65
4:r:122:GLU:CB	4:R:506:PRO:HB3	1.28	1.63
7:e:6:SER:HB2	9:c:55:TYR:CZ	1.29	1.63
7:e:309:TYR:HB2	9:c:390:LEU:CD2	1.26	1.63
4:R:673:MET:SD	2:T:483:LEU:HD12	1.40	1.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:313:GLU:CG	11:M:1:MET:H1	1.07	1.62
11:O:462:PRO:CG	11:Q:707:GLN:HE21	1.00	1.62
5:g:24:TYR:CD2	15:f:735:ARG:NH1	1.68	1.61
6:l:613:LEU:HB3	13:a:1250:GLN:CB	1.20	1.61
1:H:118:ASP:HB3	11:M:727:TYR:CD2	1.29	1.61
9:C:645:ILE:HD13	13:A:1122:ALA:CB	1.23	1.60
2:t:357:LEU:CD1	4:r:543:PRO:HB2	1.22	1.60
1:H:719:GLU:HG2	11:Q:10:ARG:CB	1.26	1.60
6:L:1695:LEU:HA	9:C:252:PHE:CA	1.21	1.60
6:L:777:PRO:CB	7:E:257:LEU:C	1.75	1.60
11:O:673:VAL:CG2	11:Q:787:ILE:HG21	1.21	1.60
6:l:617:GLU:CG	13:a:1250:GLN:HE21	1.13	1.59
12:b:219:ARG:HD2	13:a:917:GLY:CA	1.30	1.59
4:R:662:LEU:HD22	3:S:825:LYS:CG	1.30	1.59
2:t:375:PHE:CD2	3:s:1750:LEU:HD22	1.36	1.59
5:G:24:TYR:CB	15:F:735:ARG:HH12	1.15	1.59
6:L:1695:LEU:CA	9:C:252:PHE:HA	1.32	1.59
4:R:635:HIS:CB	2:T:453:GLU:CG	1.78	1.59
3:s:1735:ILE:CB	4:r:548:CYS:HB3	1.15	1.59
4:r:145:ILE:HD11	4:R:505:LEU:C	1.26	1.59
11:O:790:SER:CB	11:Q:454:ARG:HB2	1.18	1.59
11:O:791:LYS:HA	11:Q:454:ARG:CZ	1.15	1.59
1:H:461:ILE:HG23	11:N:27:MET:CB	1.20	1.58
5:g:58:GLY:CA	13:a:1378:TRP:HD1	1.16	1.58
4:R:363:PHE:HE1	4:R:551:LEU:CD1	1.02	1.58
4:R:616:ALA:CB	2:T:422:LEU:HD21	1.23	1.58
4:R:626:ARG:HH22	2:T:433:THR:CG2	1.06	1.57
3:S:744:ARG:HH22	2:T:389:THR:CG2	1.10	1.57
7:E:309:TYR:CB	9:C:390:LEU:HD22	1.10	1.57
8:D:189:VAL:CG1	9:C:519:LEU:HD12	1.31	1.57
1:H:367:ALA:CB	15:F:471:GLN:HE22	1.16	1.57
2:t:378:GLN:HB2	3:s:1754:LYS:CD	1.28	1.57
11:O:463:ARG:HB2	11:Q:707:GLN:CA	1.29	1.57
4:R:673:MET:SD	3:S:835:LEU:HD21	1.41	1.56
5:g:24:TYR:CB	15:f:735:ARG:HH12	1.15	1.56
6:l:613:LEU:CB	13:a:1250:GLN:HB3	1.28	1.56
7:E:148:MET:SD	9:C:499:LEU:HD21	1.41	1.56
11:O:786:THR:HG21	11:Q:578:ALA:CB	1.11	1.56
3:s:1739:ILE:CG1	4:r:552:LEU:HD13	1.33	1.56
4:r:122:GLU:CG	4:R:506:PRO:HA	1.26	1.56
4:R:666:ILE:CG1	3:S:828:VAL:HG21	1.13	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:613:PHE:HD2	3:S:768:PHE:CE1	1.17	1.56
9:c:256:TRP:H	4:R:461:LEU:CD2	0.95	1.56
4:R:635:HIS:CB	2:T:453:GLU:HG3	1.11	1.56
1:h:226:LEU:CD1	11:P:548:ALA:N	1.69	1.55
4:R:666:ILE:CG1	3:S:828:VAL:CG2	1.82	1.55
1:h:226:LEU:HB3	11:P:549:LYS:CB	1.09	1.55
7:E:310:MET:HA	9:C:391:TYR:CD2	1.36	1.55
5:G:58:GLY:CA	13:A:1378:TRP:HD1	1.16	1.55
6:L:777:PRO:CG	7:E:257:LEU:CB	1.78	1.55
3:s:1735:ILE:CD1	4:r:548:CYS:HB2	1.07	1.54
9:C:596:TYR:CD1	13:A:1121:LEU:HD13	1.37	1.54
4:R:482:LEU:CD2	2:T:370:GLU:CD	1.75	1.54
9:c:600:ARG:HH22	13:a:1222:THR:CG2	1.21	1.54
4:R:482:LEU:HD23	2:T:370:GLU:CD	1.20	1.54
4:R:666:ILE:CD1	3:S:828:VAL:HG21	1.08	1.54
1:H:720:GLU:HG3	11:Q:7:GLU:CD	1.24	1.53
2:t:357:LEU:HG	4:r:543:PRO:CG	1.09	1.53
12:B:219:ARG:HD2	13:A:917:GLY:CA	1.30	1.53
5:g:13:GLU:CD	13:a:1383:ALA:HB2	1.17	1.53
7:E:148:MET:CG	9:C:499:LEU:CD2	1.77	1.53
6:l:620:GLN:CG	13:a:1339:TYR:HD1	1.18	1.53
11:O:465:PRO:HB2	11:Q:689:LYS:CB	1.38	1.53
1:H:554:GLN:CD	11:N:544:PRO:HB3	1.16	1.52
9:c:256:TRP:N	4:R:461:LEU:HD22	1.23	1.52
5:g:2:VAL:CG2	15:f:309:LEU:HD12	1.37	1.52
4:r:119:MET:CB	4:R:512:VAL:HG23	1.36	1.52
4:R:596:ARG:HH22	3:S:746:GLU:CD	1.06	1.52
1:H:719:GLU:CG	11:Q:10:ARG:HB2	1.34	1.52
5:G:2:VAL:CG2	15:F:309:LEU:HD12	1.36	1.52
11:O:782:PRO:HD2	11:Q:777:HIS:CE1	1.42	1.52
5:G:24:TYR:CD2	15:F:735:ARG:NH1	1.70	1.51
11:O:463:ARG:CB	11:Q:707:GLN:HA	1.39	1.51
11:O:465:PRO:CB	11:Q:689:LYS:HB2	1.37	1.51
11:O:781:SER:HB3	11:Q:777:HIS:ND1	1.21	1.51
4:r:122:GLU:HG3	4:R:506:PRO:CA	1.06	1.51
5:G:2:VAL:CG2	15:F:309:LEU:CD1	1.87	1.51
4:R:592:LEU:HD11	3:S:743:LEU:CD1	1.39	1.51
5:G:13:GLU:CD	13:A:1383:ALA:HB2	1.17	1.51
10:U:1307:ARG:HH21	13:a:1001:LYS:CE	1.19	1.51
7:E:309:TYR:HB2	9:C:390:LEU:CD2	1.32	1.51
3:s:1735:ILE:CG1	4:r:548:CYS:HB2	1.41	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:1247:ILE:CG2	13:A:1281:ASP:H	1.23	1.50
9:C:611:GLU:OE1	13:A:1294:TYR:CE1	1.64	1.50
4:R:613:PHE:HD2	3:S:768:PHE:CD1	1.26	1.50
4:R:666:ILE:CD1	3:S:828:VAL:CG2	1.84	1.50
4:r:119:MET:CG	4:R:509:LEU:HA	1.06	1.50
6:L:613:LEU:CB	13:A:1247:ARG:NE	1.73	1.50
6:l:51:ILE:HG21	10:U:1086:ARG:CZ	1.39	1.50
12:B:155:ASP:OD1	13:A:523:PHE:CE1	1.64	1.50
4:R:592:LEU:CD1	3:S:743:LEU:HD12	1.38	1.50
3:S:744:ARG:NH2	2:T:389:THR:HG21	1.20	1.50
1:h:226:LEU:CB	11:P:549:LYS:HB2	1.36	1.50
9:c:619:GLN:HB3	11:M:6:ALA:C	1.32	1.50
7:e:321:GLY:CA	9:c:16:LEU:HB3	1.35	1.50
10:U:1385:GLU:CB	13:a:1150:GLY:HA3	1.40	1.50
11:O:780:PRO:CB	11:Q:656:LEU:HG	1.35	1.50
4:R:666:ILE:HG12	3:S:828:VAL:CG2	1.32	1.50
11:O:776:LYS:HB3	11:Q:780:PRO:CB	1.02	1.50
4:r:145:ILE:CD1	4:R:505:LEU:C	1.79	1.50
5:g:24:TYR:CG	15:f:735:ARG:NH1	1.78	1.50
4:R:635:HIS:HB3	2:T:453:GLU:CG	1.37	1.50
2:t:357:LEU:CD1	4:r:543:PRO:CB	1.84	1.49
5:G:24:TYR:CG	15:F:735:ARG:NH1	1.79	1.49
10:U:1211:PRO:CD	12:b:57:THR:HG23	1.17	1.49
3:S:786:GLN:NE2	2:T:435:LEU:CD1	1.73	1.49
6:L:777:PRO:HB2	7:E:257:LEU:C	1.12	1.49
1:H:719:GLU:CB	11:Q:7:GLU:HA	1.40	1.49
4:r:145:ILE:CG1	4:R:505:LEU:C	1.86	1.49
6:L:1247:ILE:HG21	13:A:1281:ASP:N	1.21	1.49
7:E:148:MET:CG	9:C:499:LEU:HD21	1.07	1.49
3:s:1735:ILE:CD1	4:r:548:CYS:CB	1.80	1.49
7:E:309:TYR:CG	9:C:390:LEU:HD22	1.46	1.48
2:t:362:ASN:N	4:r:533:LEU:CB	1.77	1.48
3:s:1739:ILE:HG12	4:r:552:LEU:CD1	1.42	1.48
6:L:1200:ASP:HB2	13:A:1275:LYS:NZ	1.28	1.48
7:E:47:TRP:CB	9:C:54:MET:HB3	1.38	1.48
4:R:613:PHE:CD2	3:S:768:PHE:CE1	2.01	1.48
8:d:39:ASP:C	9:c:412:HIS:CD2	1.82	1.48
11:O:649:ALA:CB	11:Q:788:SER:HB2	1.39	1.48
1:H:118:ASP:CG	11:M:727:TYR:HE2	1.19	1.48
1:H:158:PRO:CB	11:N:475:ILE:CD1	1.89	1.48
2:t:357:LEU:CG	4:r:543:PRO:HG2	1.42	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:1695:LEU:N	9:C:247:GLN:HE22	1.02	1.47
7:E:314:LYS:HG2	9:C:3:GLU:CA	1.39	1.47
2:t:382:VAL:HG22	3:s:1758:SER:N	1.20	1.47
12:b:155:ASP:OD1	13:a:523:PHE:CE1	1.64	1.47
6:L:777:PRO:HG2	7:E:257:LEU:CB	1.01	1.47
11:O:783:THR:HB	11:Q:602:VAL:CG2	1.43	1.47
4:R:616:ALA:CA	2:T:422:LEU:HD21	1.41	1.47
3:S:736:SER:C	3:S:737:GLU:N	1.71	1.47
1:H:234:ILE:CD1	11:N:34:ARG:HH12	1.26	1.46
1:H:465:GLU:CG	11:N:23:ARG:HH12	1.24	1.46
6:L:1200:ASP:CB	13:A:1275:LYS:HZ1	1.23	1.46
5:g:2:VAL:HG22	15:f:309:LEU:CD1	1.00	1.46
6:l:1596:HIS:NE2	4:R:209:THR:CB	1.77	1.46
7:E:231:LEU:HD21	9:C:435:LEU:CD2	1.43	1.46
11:O:455:LYS:CG	11:Q:695:ASN:HB3	1.42	1.46
4:R:636:THR:HG22	2:T:450:HIS:CE1	1.48	1.46
5:G:2:VAL:HG22	15:F:309:LEU:CD1	0.98	1.45
7:E:274:PHE:CE1	9:C:3:GLU:CD	1.94	1.45
8:D:260:GLU:H	9:C:453:ARG:NH2	1.14	1.45
10:U:1388:SER:C	13:a:1148:ARG:HH11	1.19	1.45
2:t:382:VAL:HG22	3:s:1758:SER:CA	1.45	1.45
3:s:1739:ILE:CG1	4:r:552:LEU:CD1	1.92	1.45
4:r:119:MET:HG3	4:R:509:LEU:CA	1.47	1.45
5:g:58:GLY:CA	13:a:1378:TRP:CD1	1.97	1.45
7:E:148:MET:HG3	9:C:499:LEU:CD1	1.45	1.45
4:R:673:MET:HG3	3:S:835:LEU:CD1	1.46	1.45
11:O:790:SER:HB2	11:Q:454:ARG:CB	1.47	1.44
1:H:465:GLU:HG3	11:N:23:ARG:NH1	1.25	1.44
3:s:1728:VAL:HG13	4:r:544:PRO:CD	1.46	1.44
5:G:58:GLY:C	13:A:1378:TRP:CD1	1.95	1.44
8:D:129:ALA:HB1	9:C:480:ARG:NH2	1.24	1.44
5:G:58:GLY:CA	13:A:1378:TRP:CD1	1.97	1.44
7:E:13:ASP:N	9:C:38:LEU:HD13	1.25	1.44
11:O:582:HIS:ND1	11:Q:792:SER:HB3	1.17	1.44
4:r:119:MET:CG	4:R:509:LEU:CA	1.92	1.44
5:g:58:GLY:C	13:a:1378:TRP:CD1	1.95	1.43
8:D:122:HIS:CE1	9:C:480:ARG:NE	1.86	1.43
4:R:592:LEU:CD1	3:S:743:LEU:CD1	1.88	1.43
3:s:1735:ILE:HB	4:r:548:CYS:CB	1.36	1.43
6:L:1200:ASP:CB	13:A:1275:LYS:NZ	1.77	1.43
6:l:470:THR:HG23	13:a:1194:HIS:CE1	1.53	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:13:ASP:N	9:C:38:LEU:CD1	1.77	1.43
4:R:491:PRO:CB	2:T:381:THR:HG21	1.00	1.43
1:H:720:GLU:CG	11:Q:7:GLU:OE1	1.66	1.43
5:G:24:TYR:CB	15:F:735:ARG:NH1	1.79	1.43
8:d:279:GLU:CB	9:c:453:ARG:HH12	1.30	1.43
9:c:532:ARG:NH1	9:c:568:PRO:HG3	1.17	1.43
9:c:619:GLN:CB	11:M:6:ALA:O	1.64	1.43
11:O:786:THR:HB	11:Q:578:ALA:C	1.43	1.43
3:S:751:HIS:ND1	2:T:400:LEU:CD2	1.77	1.43
3:s:1735:ILE:CB	4:r:548:CYS:CB	1.84	1.43
6:L:614:ALA:N	13:A:1247:ARG:NH2	1.65	1.43
11:O:463:ARG:NH2	11:Q:752:LEU:HB3	1.30	1.43
4:R:491:PRO:CB	2:T:381:THR:CG2	1.90	1.43
2:t:363:LYS:HD3	3:s:1740:ARG:NE	1.17	1.42
11:O:463:ARG:HB2	11:Q:707:GLN:C	1.39	1.42
6:L:777:PRO:C	7:E:258:SER:HA	1.41	1.42
6:l:620:GLN:CG	13:a:1339:TYR:CD1	2.02	1.42
9:c:416:GLN:NE2	9:c:450:LYS:HZ3	1.17	1.42
9:c:532:ARG:CZ	9:c:568:PRO:HG3	1.48	1.42
8:D:122:HIS:CE1	9:C:480:ARG:HG3	1.52	1.42
11:O:596:GLU:HA	11:Q:795:PHE:CE1	1.55	1.42
9:c:573:LEU:HB2	9:c:605:ARG:NH1	1.20	1.42
10:U:1211:PRO:CG	12:b:56:SER:OG	1.67	1.42
4:r:119:MET:HB2	4:R:512:VAL:CG2	1.45	1.42
6:L:613:LEU:C	13:A:1247:ARG:HH21	1.26	1.42
7:E:312:ASN:ND2	9:C:1:MET:H2	1.10	1.42
9:C:600:ARG:NH2	13:A:1222:THR:HG22	1.25	1.42
3:S:716:PHE:HD1	2:T:365:TRP:CZ2	1.38	1.42
1:H:158:PRO:HB2	11:N:475:ILE:CD1	0.95	1.41
8:D:279:GLU:HB3	9:C:453:ARG:NH1	1.35	1.41
9:c:599:MET:HE1	13:a:1121:LEU:CD1	1.48	1.41
1:h:317:ASP:CB	15:f:463:HIS:HD2	1.19	1.41
9:c:573:LEU:CB	9:c:605:ARG:NH1	1.82	1.41
10:U:1362:GLN:CB	13:a:1024:ARG:HG2	1.50	1.41
11:O:482:LEU:HD22	11:Q:794:ARG:NH1	1.14	1.41
4:R:606:ALA:N	2:T:411:GLN:HE22	1.09	1.41
4:R:626:ARG:NH2	2:T:433:THR:HG23	1.16	1.41
9:C:596:TYR:CE1	13:A:1121:LEU:CD1	1.94	1.41
11:O:466:GLN:CB	11:Q:692:GLU:HB2	1.20	1.41
12:b:287:HIS:HE1	13:a:1007:GLY:C	1.26	1.41
6:l:1596:HIS:NE2	4:R:209:THR:CA	1.75	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:d:13:LYS:HE3	9:c:413:SER:CB	1.50	1.41
11:O:596:GLU:HG2	11:Q:795:PHE:CE1	1.52	1.41
5:G:292:VAL:HA	15:F:653:ARG:NH1	1.33	1.40
7:e:321:GLY:CA	9:c:16:LEU:HD23	1.51	1.40
3:S:716:PHE:CE1	2:T:365:TRP:CD2	2.10	1.40
4:R:616:ALA:CB	2:T:422:LEU:CD2	1.97	1.40
6:L:777:PRO:CG	7:E:257:LEU:HB3	1.44	1.40
6:l:1243:GLY:HA3	13:a:1276:GLU:CD	1.44	1.40
11:O:3:ARG:NH1	15:f:589:PRO:CG	1.83	1.40
11:O:470:ARG:HH22	11:Q:671:GLU:CB	1.30	1.40
11:O:792:SER:N	11:Q:588:LEU:CD2	1.79	1.40
11:O:792:SER:CA	11:Q:588:LEU:HD22	1.49	1.40
5:G:292:VAL:C	15:F:653:ARG:CZ	1.93	1.40
2:t:357:LEU:CG	4:r:543:PRO:CG	1.97	1.40
3:s:1735:ILE:HD13	4:r:548:CYS:CA	1.50	1.40
5:g:13:GLU:OE2	13:a:1383:ALA:CB	1.70	1.40
6:l:618:HIS:HA	13:a:1312:HIS:C	1.27	1.40
9:c:619:GLN:CB	11:M:6:ALA:C	1.91	1.40
4:R:489:SER:CB	2:T:377:LEU:HD21	1.12	1.40
4:R:613:PHE:CD2	3:S:768:PHE:CD1	2.03	1.40
1:H:313:GLU:CG	11:M:1:MET:N	1.84	1.39
5:g:294:GLY:N	15:f:653:ARG:NH2	1.63	1.39
5:G:292:VAL:CA	15:F:653:ARG:NH1	1.83	1.39
7:E:12:LYS:C	9:C:38:LEU:HD13	1.46	1.39
5:g:292:VAL:C	15:f:653:ARG:CZ	1.95	1.39
4:R:673:MET:CG	3:S:835:LEU:CD1	2.00	1.39
6:L:777:PRO:HB2	7:E:258:SER:N	1.14	1.39
9:C:645:ILE:HD13	13:A:1122:ALA:CA	1.52	1.39
4:R:544:PRO:CG	3:S:701:GLU:HA	1.03	1.39
4:R:555:ALA:CB	3:S:712:GLU:OE1	1.69	1.39
4:R:596:ARG:NH2	3:S:746:GLU:CD	1.78	1.39
5:g:285:VAL:HG21	15:f:263:HIS:CE1	1.57	1.39
8:d:279:GLU:HB3	9:c:453:ARG:NH1	1.36	1.39
11:O:470:ARG:NH2	11:Q:671:GLU:H	1.15	1.39
6:L:777:PRO:CB	7:E:258:SER:N	1.76	1.39
9:c:619:GLN:C	11:M:6:ALA:O	1.65	1.39
11:O:780:PRO:CG	11:Q:656:LEU:O	1.66	1.39
11:O:791:LYS:CA	11:Q:454:ARG:NE	1.73	1.39
11:M:31:LEU:HD11	15:F:436:ARG:CD	1.48	1.39
4:R:613:PHE:HB2	3:S:768:PHE:CZ	1.57	1.39
3:S:751:HIS:CE1	2:T:400:LEU:HD21	1.58	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:e:27:MET:CE	9:c:54:MET:HE1	1.50	1.38
6:L:613:LEU:HD13	13:A:1247:ARG:CD	1.50	1.38
12:B:287:HIS:HE1	13:A:1007:GLY:C	1.26	1.38
7:E:69:GLU:OE1	9:C:469:LYS:HD3	1.23	1.38
7:E:314:LYS:CG	9:C:3:GLU:HA	1.52	1.38
8:d:39:ASP:O	9:c:412:HIS:CG	1.77	1.38
9:c:416:GLN:NE2	9:c:450:LYS:NZ	1.70	1.38
1:H:720:GLU:CG	11:Q:7:GLU:CD	1.96	1.38
2:t:361:ILE:C	4:r:533:LEU:HB2	1.45	1.38
3:s:1735:ILE:CD1	4:r:545:PRO:O	1.70	1.38
5:g:2:VAL:CG2	15:f:309:LEU:CD1	1.89	1.38
7:E:90:VAL:CG1	8:D:127:MET:SD	2.06	1.38
9:C:645:ILE:CD1	13:A:1122:ALA:CA	2.01	1.38
4:R:1:MET:HE2	2:T:374:LYS:NZ	1.06	1.38
5:g:285:VAL:HG21	15:f:263:HIS:ND1	1.39	1.37
5:g:292:VAL:CA	15:f:653:ARG:NH1	1.85	1.38
5:G:13:GLU:OE2	13:A:1383:ALA:CB	1.70	1.38
6:L:1695:LEU:N	9:C:247:GLN:NE2	1.71	1.38
7:E:148:MET:HE3	9:C:503:ARG:NH2	1.37	1.37
7:e:27:MET:HE1	9:c:54:MET:CE	1.53	1.38
8:D:122:HIS:HE1	9:C:480:ARG:CD	1.37	1.37
9:c:257:GLN:CG	4:R:461:LEU:O	1.72	1.37
4:R:491:PRO:HB2	2:T:381:THR:CG2	1.47	1.37
4:R:541:SER:HB3	3:S:699:THR:CB	1.53	1.38
4:r:95:LEU:O	4:R:519:HIS:CD2	1.75	1.37
7:e:6:SER:CB	9:c:55:TYR:CZ	2.05	1.37
5:g:292:VAL:HA	15:f:653:ARG:NH1	1.33	1.37
6:L:1699:SER:CB	9:C:254:LEU:H	1.15	1.37
8:D:9:PHE:CB	9:C:70:LYS:HE2	1.54	1.37
10:U:1307:ARG:NH2	13:a:1001:LYS:CD	1.86	1.37
11:O:792:SER:N	11:Q:588:LEU:HD22	1.08	1.37
5:G:285:VAL:HG21	15:F:263:HIS:CE1	1.58	1.37
6:l:620:GLN:HG3	13:a:1339:TYR:CD1	1.59	1.37
1:H:322:GLN:NE2	11:M:1:MET:HG2	1.34	1.37
5:G:26:ILE:CG1	15:F:735:ARG:NH2	1.87	1.37
8:D:259:ALA:HB1	9:C:453:ARG:CZ	1.55	1.37
11:O:457:LEU:CD2	11:Q:702:GLU:N	1.87	1.37
1:H:716:SER:HB2	11:Q:3:ARG:CD	1.53	1.36
6:L:777:PRO:HG2	7:E:257:LEU:CA	1.54	1.36
7:E:14:LEU:CD1	9:C:40:GLN:HB2	1.53	1.36
8:D:122:HIS:CE1	9:C:480:ARG:CG	2.06	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:U:1211:PRO:CD	12:b:57:THR:CG2	1.74	1.36
1:H:554:GLN:NE2	11:N:544:PRO:CB	1.88	1.36
5:g:275:ILE:HG21	15:f:255:TRP:CZ2	1.59	1.36
6:l:620:GLN:NE2	13:a:1339:TYR:CE1	1.90	1.36
7:E:274:PHE:HE1	9:C:3:GLU:CD	1.27	1.36
8:D:122:HIS:CE1	9:C:480:ARG:HE	1.39	1.36
2:t:378:GLN:CB	3:s:1754:LYS:HD3	1.23	1.36
5:g:26:ILE:CG1	15:f:735:ARG:NH2	1.89	1.36
9:c:517:LEU:HD22	9:c:540:ARG:CZ	1.54	1.36
11:O:454:ARG:O	11:Q:698:LEU:CD2	1.73	1.36
4:r:122:GLU:CG	4:R:506:PRO:CA	1.91	1.36
5:G:16:ILE:CG2	15:F:303:LYS:HA	1.54	1.36
8:d:365:GLU:CB	9:c:69:ARG:NH2	1.87	1.36
11:O:481:LEU:CD2	11:Q:693:ILE:HG21	1.52	1.36
5:G:24:TYR:HB2	15:F:735:ARG:NH1	1.36	1.36
5:G:275:ILE:HG21	15:F:255:TRP:CZ2	1.60	1.36
5:G:292:VAL:O	15:F:653:ARG:CZ	1.74	1.36
7:e:27:MET:CE	9:c:54:MET:CE	2.04	1.36
7:e:309:TYR:CB	9:c:390:LEU:HD22	1.51	1.36
4:R:544:PRO:CG	3:S:701:GLU:CA	1.96	1.36
5:g:167:LEU:CA	15:f:685:HIS:CD2	2.03	1.35
11:O:3:ARG:NH1	15:f:589:PRO:HG3	1.03	1.35
1:H:322:GLN:NE2	11:M:1:MET:CG	1.89	1.35
6:L:613:LEU:HD13	13:A:1247:ARG:CG	1.56	1.35
11:O:458:LYS:NZ	11:Q:691:GLU:O	1.59	1.35
11:O:785:LEU:HD12	11:Q:651:ILE:CG2	1.56	1.35
4:R:676:GLN:NE2	3:S:839:TRP:CE3	1.93	1.35
1:H:367:ALA:HB1	15:F:471:GLN:NE2	1.08	1.35
4:r:122:GLU:HG3	4:R:506:PRO:CB	1.54	1.35
6:L:723:GLY:O	13:A:1399:HIS:CD2	1.80	1.35
11:O:463:ARG:CB	11:Q:710:LEU:HB2	1.56	1.35
5:g:292:VAL:O	15:f:653:ARG:CZ	1.73	1.35
8:D:13:LYS:HE3	9:C:413:SER:CB	1.55	1.35
9:C:596:TYR:CE1	13:A:1121:LEU:HD13	1.45	1.35
1:H:317:ASP:CB	15:F:463:HIS:CD2	2.01	1.35
1:h:317:ASP:HB3	15:f:463:HIS:CD2	1.45	1.35
7:E:2:PHE:HB2	9:C:11:THR:OG1	1.18	1.35
7:E:20:PHE:CE2	9:C:26:SER:O	1.78	1.35
7:E:312:ASN:HD22	9:C:1:MET:N	0.89	1.35
11:O:786:THR:CB	11:Q:578:ALA:O	1.74	1.35
12:b:196:THR:HG23	13:a:634:HIS:CD2	1.61	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:285:VAL:HG21	15:F:263:HIS:ND1	1.37	1.34
9:c:532:ARG:NH1	9:c:568:PRO:CG	1.89	1.34
9:c:573:LEU:CG	9:c:605:ARG:HH12	1.41	1.34
11:O:786:THR:HG23	11:Q:605:TRP:NE1	1.37	1.34
4:R:577:ARG:NH2	2:T:387:ASP:OD2	1.60	1.34
4:R:659:LEU:HG	3:S:821:ASN:ND2	1.39	1.34
1:H:554:GLN:CD	11:N:544:PRO:CB	2.01	1.34
3:s:1739:ILE:HA	4:r:552:LEU:CD1	1.55	1.34
5:g:16:ILE:CG2	15:f:303:LYS:HA	1.54	1.34
5:G:24:TYR:CE2	15:F:735:ARG:HD2	1.60	1.34
7:E:312:ASN:ND2	9:C:1:MET:N	1.67	1.34
8:D:122:HIS:HE1	9:C:480:ARG:NE	1.21	1.34
11:O:656:LEU:HA	11:Q:793:ALA:CB	1.55	1.34
5:g:24:TYR:CE2	15:f:735:ARG:HD2	1.60	1.34
5:G:287:LEU:HD21	15:F:261:LEU:CD2	1.57	1.34
6:L:1247:ILE:HG22	13:A:1278:SER:O	1.21	1.34
7:e:90:VAL:CG1	8:d:127:MET:SD	2.05	1.34
9:c:252:PHE:CD1	4:R:461:LEU:HD12	1.62	1.34
11:O:468:THR:CG2	11:Q:664:GLU:OE2	1.74	1.34
11:O:673:VAL:HG22	11:Q:787:ILE:CG2	1.54	1.34
12:B:196:THR:HG23	13:A:634:HIS:CD2	1.61	1.34
1:H:488:GLN:O	15:f:790:LYS:HB3	1.23	1.34
11:O:776:LYS:CB	11:Q:780:PRO:HB2	0.87	1.34
4:R:489:SER:HB3	2:T:377:LEU:CD2	1.16	1.34
4:R:532:LEU:CD1	2:T:362:ILE:N	1.89	1.34
4:R:635:HIS:CB	2:T:453:GLU:CB	2.05	1.34
7:E:32:SER:O	9:C:41:LYS:CD	1.76	1.34
10:U:1307:ARG:NH2	13:a:1001:LYS:HD3	1.35	1.34
3:s:1739:ILE:CA	4:r:552:LEU:HD13	1.56	1.33
6:l:470:THR:HB	13:a:1261:GLU:CD	1.52	1.33
7:E:274:PHE:CZ	9:C:3:GLU:OE1	1.81	1.33
11:O:454:ARG:CD	11:Q:695:ASN:HD21	1.40	1.33
4:R:541:SER:HB2	3:S:699:THR:O	1.26	1.33
5:g:287:LEU:HD21	15:f:261:LEU:CD2	1.58	1.33
7:E:317:GLY:C	9:C:8:PRO:HB2	1.53	1.33
9:c:314:HIS:HA	4:R:462:PHE:CE1	1.62	1.33
11:O:465:PRO:C	11:Q:689:LYS:HB3	1.19	1.33
10:U:1307:ARG:NH1	13:a:1002:HIS:CE1	1.97	1.33
11:O:470:ARG:NH1	11:Q:671:GLU:OE2	1.62	1.33
11:O:470:ARG:HG3	11:Q:667:ILE:CB	1.57	1.33
2:t:358:GLU:HG3	4:r:443:PRO:CD	1.59	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s:1735:ILE:HD12	4:r:548:CYS:CB	1.48	1.33
3:s:1739:ILE:CB	4:r:552:LEU:HD13	1.56	1.33
4:r:145:ILE:HG12	4:R:505:LEU:CB	1.56	1.33
5:G:19:ALA:O	15:F:304:VAL:CG1	1.65	1.33
6:l:470:THR:CG2	13:a:1194:HIS:CE1	2.11	1.33
11:O:596:GLU:CG	11:Q:795:PHE:CE1	2.11	1.33
11:O:652:ALA:CB	11:Q:791:LYS:H	1.41	1.33
11:O:673:VAL:CG2	11:Q:787:ILE:HD13	1.58	1.33
12:B:219:ARG:HD2	13:A:917:GLY:C	1.53	1.33
4:R:578:VAL:CG2	3:S:732:PHE:HD1	1.40	1.33
4:R:662:LEU:CD2	3:S:825:LYS:CG	2.06	1.33
1:H:118:ASP:CG	11:M:727:TYR:CE2	1.98	1.32
3:s:1732:SER:CA	4:r:548:CYS:SG	2.15	1.32
8:d:365:GLU:HB3	9:c:69:ARG:NH2	1.02	1.32
4:R:535:ASN:OD1	3:S:706:LEU:CD2	1.77	1.32
1:h:316:PRO:HD2	15:f:464:ARG:CG	1.60	1.32
7:E:2:PHE:HB2	9:C:11:THR:CB	1.45	1.32
10:U:1362:GLN:HB3	13:a:1024:ARG:CG	1.56	1.32
4:R:626:ARG:HH22	2:T:433:THR:CB	1.39	1.32
4:r:96:PHE:CE1	4:R:512:VAL:HG13	1.64	1.32
11:O:1:MET:CB	15:f:567:GLU:N	1.69	1.32
4:R:673:MET:SD	2:T:483:LEU:CD1	2.18	1.32
1:H:488:GLN:O	15:f:790:LYS:CB	1.78	1.32
7:e:321:GLY:HA3	9:c:16:LEU:CG	1.60	1.32
10:U:1313:ARG:HD3	13:a:796:HIS:C	1.50	1.32
1:h:226:LEU:HD11	11:P:547:SER:C	1.54	1.32
5:G:26:ILE:CG1	15:F:735:ARG:HH22	1.42	1.32
9:c:416:GLN:HE22	9:c:450:LYS:NZ	1.20	1.32
9:c:573:LEU:HB2	9:c:605:ARG:CZ	1.59	1.32
11:O:12:VAL:C	15:f:584:SER:HB2	1.53	1.32
11:O:656:LEU:CA	11:Q:793:ALA:HB2	1.56	1.32
11:O:787:ILE:HG13	11:Q:582:HIS:CD2	1.61	1.32
12:b:219:ARG:HD2	13:a:917:GLY:C	1.53	1.32
6:l:465:GLU:HB3	13:a:1216:GLN:OE1	1.25	1.31
8:D:279:GLU:CB	9:C:453:ARG:HH12	1.42	1.31
11:O:791:LYS:CA	11:Q:454:ARG:CZ	1.99	1.31
12:B:174:HIS:CE1	13:A:921:LYS:HZ3	1.46	1.31
1:h:223:GLN:HA	11:P:548:ALA:CB	1.60	1.31
2:t:378:GLN:CB	3:s:1754:LYS:CD	1.90	1.31
6:L:613:LEU:HB3	13:A:1247:ARG:NE	0.99	1.31
4:R:626:ARG:NH2	2:T:433:THR:CG2	1.73	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:24:TYR:CB	15:f:735:ARG:NH1	1.80	1.31
5:g:58:GLY:C	13:a:1378:TRP:NE1	1.89	1.31
5:g:167:LEU:HA	15:f:685:HIS:CD2	1.19	1.31
5:G:167:LEU:CA	15:F:685:HIS:CD2	2.01	1.31
10:U:1385:GLU:HB3	13:a:1150:GLY:CA	1.58	1.31
4:R:438:ILE:O	2:T:362:ILE:HG21	1.22	1.31
3:S:716:PHE:CE1	2:T:365:TRP:CE3	2.18	1.31
1:H:722:ALA:HA	11:Q:10:ARG:NH1	1.45	1.31
6:L:1247:ILE:HG22	13:A:1278:SER:C	1.35	1.31
6:L:1249:GLN:N	13:A:1277:SER:O	1.58	1.31
4:R:482:LEU:HD21	2:T:370:GLU:CG	1.60	1.31
1:H:317:ASP:HB3	15:F:463:HIS:CD2	1.41	1.31
8:D:259:ALA:HB1	9:C:453:ARG:NH1	1.45	1.31
10:U:1211:PRO:CB	12:b:56:SER:CB	2.06	1.31
11:O:454:ARG:CG	11:Q:695:ASN:ND2	1.93	1.30
7:E:29:THR:HG22	9:C:35:TYR:CE2	1.65	1.30
11:O:454:ARG:HG2	11:Q:695:ASN:ND2	1.44	1.30
4:R:541:SER:CB	3:S:699:THR:C	2.05	1.30
4:R:577:ARG:CZ	2:T:387:ASP:OD2	1.77	1.30
3:S:716:PHE:HE1	2:T:365:TRP:CD2	1.43	1.30
6:L:1247:ILE:CG2	13:A:1278:SER:C	1.97	1.30
6:l:172:ARG:CB	10:U:1127:THR:OG1	1.77	1.30
8:d:40:ASN:HA	9:c:412:HIS:NE2	1.47	1.30
4:R:1:MET:CE	2:T:374:LYS:NZ	1.94	1.30
4:R:651:GLU:OE2	3:S:818:ARG:NH2	1.64	1.30
3:s:1728:VAL:HG13	4:r:544:PRO:N	1.45	1.30
7:e:7:ILE:N	9:c:54:MET:O	1.64	1.30
11:O:457:LEU:O	11:Q:702:GLU:C	1.75	1.30
11:O:538:ILE:CG2	11:Q:704:GLU:O	1.77	1.30
6:L:1247:ILE:HG23	13:A:1278:SER:OG	1.20	1.29
12:B:287:HIS:CE1	13:A:1007:GLY:C	2.09	1.29
4:R:541:SER:CB	3:S:699:THR:O	1.79	1.29
3:s:1728:VAL:CG1	4:r:544:PRO:HD3	1.61	1.29
7:E:148:MET:HG3	9:C:499:LEU:CG	1.61	1.29
9:c:318:LYS:HB3	4:R:131:SER:CB	1.60	1.29
11:O:454:ARG:CG	11:Q:695:ASN:HD22	1.42	1.29
11:O:465:PRO:HG3	11:Q:686:TYR:CD1	1.66	1.29
11:O:470:ARG:NH2	11:Q:671:GLU:HB2	1.44	1.29
11:O:649:ALA:HB3	11:Q:788:SER:CB	1.33	1.29
11:O:791:LYS:C	11:Q:588:LEU:CD2	1.88	1.29
1:H:461:ILE:CG2	11:N:27:MET:CB	2.11	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:173:PHE:CB	10:U:1127:THR:O	1.81	1.29
11:O:470:ARG:NH2	11:Q:671:GLU:CB	1.95	1.29
11:O:595:LYS:O	11:Q:795:PHE:CD2	1.84	1.29
2:t:378:GLN:CB	3:s:1754:LYS:CG	2.10	1.29
4:r:96:PHE:CZ	4:R:512:VAL:HG22	1.65	1.29
7:E:148:MET:CE	9:C:503:ARG:NH2	1.95	1.29
11:O:594:GLN:O	11:Q:794:ARG:CA	1.79	1.29
11:O:783:THR:CB	11:Q:602:VAL:HG22	1.61	1.29
4:R:541:SER:HB2	3:S:699:THR:C	1.57	1.29
7:e:321:GLY:HA3	9:c:16:LEU:CD2	1.60	1.29
9:c:619:GLN:CG	11:M:7:GLU:HA	1.40	1.29
11:O:475:ILE:CG1	11:Q:767:HIS:CG	2.11	1.29
1:H:491:ASP:HB3	15:f:793:GLN:N	1.45	1.28
1:h:226:LEU:O	11:P:549:LYS:HD2	1.22	1.28
6:l:613:LEU:CG	13:a:1250:GLN:HB3	1.56	1.28
7:E:14:LEU:CD1	9:C:40:GLN:CB	2.09	1.28
9:c:621:GLN:CG	11:M:11:TYR:O	1.78	1.28
13:a:1172:ILE:CD1	15:f:900:PRO:O	1.80	1.28
4:R:635:HIS:HB3	2:T:453:GLU:CB	1.58	1.28
4:R:659:LEU:CD1	2:T:469:LEU:CG	1.98	1.28
4:r:122:GLU:CG	4:R:506:PRO:CB	2.09	1.28
7:E:14:LEU:HD12	9:C:40:GLN:CB	1.41	1.28
7:e:6:SER:HB2	9:c:55:TYR:CE1	1.19	1.28
9:c:256:TRP:CA	4:R:461:LEU:HD22	1.61	1.28
12:b:287:HIS:CE1	13:a:1007:GLY:C	2.09	1.28
13:a:1136:TRP:CZ3	15:f:902:ASP:O	1.85	1.28
13:a:1170:ILE:HD12	15:f:903:TYR:CZ	1.32	1.28
4:R:555:ALA:HB3	3:S:712:GLU:CD	1.54	1.28
6:L:1696:ASN:HB2	9:C:253:GLU:O	1.27	1.28
9:C:641:LEU:CD2	13:A:1121:LEU:HG	1.45	1.28
13:A:1136:TRP:CZ3	15:F:902:ASP:O	1.86	1.28
4:R:620:GLN:HB2	2:T:425:GLN:NE2	1.44	1.28
4:R:626:ARG:NH2	2:T:433:THR:CB	1.91	1.28
4:R:673:MET:SD	3:S:835:LEU:CD2	2.22	1.28
1:H:118:ASP:CB	11:M:727:TYR:CD2	1.91	1.28
4:r:95:LEU:O	4:R:519:HIS:NE2	1.63	1.28
6:L:1247:ILE:CG2	13:A:1278:SER:O	1.81	1.28
11:O:781:SER:HA	11:Q:657:ASP:OD2	1.34	1.28
4:R:555:ALA:CB	3:S:712:GLU:CD	2.05	1.28
1:H:554:GLN:NE2	11:N:544:PRO:CA	1.96	1.28
6:l:617:GLU:CG	13:a:1250:GLN:NE2	1.97	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:256:TRP:N	4:R:461:LEU:CD2	1.74	1.28
9:c:621:GLN:H	11:M:10:ARG:C	1.38	1.28
11:O:788:SER:HB2	11:Q:581:LEU:CD2	1.60	1.28
11:O:788:SER:CB	11:Q:581:LEU:HD23	1.53	1.28
4:R:606:ALA:N	2:T:411:GLN:NE2	1.82	1.28
3:S:751:HIS:ND1	2:T:400:LEU:HD21	0.97	1.28
4:R:578:VAL:HG23	3:S:732:PHE:CD1	1.67	1.27
3:S:716:PHE:CD1	2:T:365:TRP:CH2	2.22	1.27
9:c:619:GLN:HB3	11:M:6:ALA:O	1.19	1.27
9:c:573:LEU:CD1	9:c:605:ARG:HH12	1.45	1.27
11:O:455:LYS:O	11:Q:698:LEU:HG	1.16	1.27
11:O:582:HIS:HA	11:Q:792:SER:OG	1.29	1.27
5:G:271:ILE:HG12	15:F:697:ARG:NH2	1.49	1.27
4:R:578:VAL:CG2	3:S:732:PHE:CD1	2.17	1.27
4:R:651:GLU:CD	3:S:818:ARG:NH2	1.90	1.27
5:G:58:GLY:C	13:A:1378:TRP:NE1	1.89	1.27
11:O:481:LEU:HA	11:Q:705:GLU:OE2	1.33	1.27
11:O:673:VAL:CG2	11:Q:787:ILE:CG2	2.10	1.27
11:O:784:LYS:N	11:Q:649:ALA:O	1.64	1.27
2:t:382:VAL:CG2	3:s:1758:SER:N	1.98	1.26
6:L:1247:ILE:CG2	13:A:1278:SER:OG	1.81	1.26
6:L:1694:GLY:O	9:C:252:PHE:CD2	1.87	1.26
7:e:300:GLY:O	9:c:23:ILE:CD1	1.80	1.26
4:R:363:PHE:CE1	4:R:551:LEU:CD1	1.89	1.26
5:g:26:ILE:HG12	15:f:735:ARG:NH2	1.46	1.26
5:g:270:SER:HA	15:f:255:TRP:N	1.51	1.26
6:L:1693:ILE:C	9:C:247:GLN:CD	2.03	1.26
6:L:1693:ILE:O	9:C:247:GLN:NE2	1.68	1.26
7:E:308:ASN:O	9:C:392:PHE:HE2	1.07	1.26
9:c:320:THR:CA	4:R:128:GLY:O	1.82	1.26
4:R:634:PHE:O	2:T:449:GLN:HG2	1.25	1.26
1:H:554:GLN:OE1	11:N:544:PRO:HB3	1.33	1.26
5:g:26:ILE:CG1	15:f:735:ARG:HH22	1.44	1.26
6:l:1243:GLY:CA	13:a:1276:GLU:CD	2.07	1.26
7:E:318:VAL:N	9:C:8:PRO:HB2	1.47	1.26
11:O:594:GLN:HB2	11:Q:796:SER:CB	1.65	1.26
11:O:594:GLN:CB	11:Q:796:SER:HB2	1.64	1.26
12:b:287:HIS:ND1	13:a:1008:HIS:HD2	1.34	1.26
13:A:1172:ILE:CD1	15:F:900:PRO:O	1.81	1.26
5:G:167:LEU:HA	15:F:685:HIS:CD2	1.18	1.26
8:d:9:PHE:CB	9:c:70:LYS:HE2	1.65	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:790:SER:CA	11:Q:454:ARG:HB2	1.62	1.26
13:a:1172:ILE:HD12	15:f:900:PRO:O	1.12	1.26
4:R:594:TYR:HE1	2:T:401:HIS:NE2	1.34	1.26
4:R:482:LEU:HD23	2:T:370:GLU:OE1	1.12	1.25
9:c:619:GLN:HB3	11:M:7:GLU:N	1.50	1.25
1:H:234:ILE:HD13	11:N:34:ARG:NH1	1.48	1.25
2:t:360:LEU:HD11	3:s:1736:LEU:O	1.17	1.25
11:O:462:PRO:HG2	11:Q:707:GLN:NE2	0.92	1.25
11:O:463:ARG:HA	11:Q:710:LEU:CG	1.67	1.25
11:O:470:ARG:CZ	11:Q:671:GLU:HB2	1.67	1.25
4:r:143:ARG:O	4:R:506:PRO:HB2	1.31	1.25
6:L:465:GLU:OE1	13:A:1201:ILE:CD1	1.85	1.25
6:L:1244:MET:SD	13:A:1285:ARG:CG	2.23	1.25
6:l:51:ILE:HG21	10:U:1086:ARG:NH1	1.21	1.25
1:H:321:ARG:HD3	15:F:461:GLY:CA	1.65	1.25
6:L:655:GLU:OE1	13:A:1251:GLY:N	1.68	1.25
9:c:323:HIS:CG	4:R:129:LYS:CD	2.11	1.25
11:O:31:LEU:CB	15:f:592:LYS:HE3	1.66	1.25
13:A:1172:ILE:HD12	15:F:900:PRO:O	1.13	1.25
4:R:1:MET:CE	2:T:374:LYS:HZ3	1.46	1.25
4:R:446:CYS:CB	3:S:701:GLU:HG2	1.67	1.25
1:H:313:GLU:OE2	11:M:1:MET:HG3	1.38	1.24
5:g:271:ILE:HG12	15:f:697:ARG:NH2	1.51	1.24
6:L:723:GLY:O	13:A:1399:HIS:HD2	0.98	1.24
7:e:314:LYS:NZ	9:c:3:GLU:OE2	1.70	1.24
7:e:321:GLY:CA	9:c:16:LEU:CD2	2.14	1.24
11:O:470:ARG:NH2	11:Q:671:GLU:N	1.83	1.24
4:R:489:SER:CB	2:T:377:LEU:CD2	1.78	1.24
4:r:96:PHE:CE1	4:R:512:VAL:HG22	1.71	1.24
5:G:13:GLU:CD	13:A:1383:ALA:CB	2.09	1.24
7:e:300:GLY:O	9:c:23:ILE:HD12	1.07	1.24
11:O:594:GLN:O	11:Q:794:ARG:C	1.66	1.24
4:R:532:LEU:CD1	2:T:362:ILE:H	1.44	1.24
1:h:321:ARG:NH1	15:f:461:GLY:O	1.71	1.24
5:G:58:GLY:HA2	13:A:1378:TRP:CD1	1.65	1.24
11:O:470:ARG:HH22	11:Q:671:GLU:CA	1.50	1.24
6:l:1245:ALA:HA	13:a:1274:THR:C	1.52	1.24
7:e:321:GLY:HA3	9:c:16:LEU:CB	1.67	1.24
9:C:645:ILE:CD1	13:A:1122:ALA:HB2	1.68	1.24
10:U:1211:PRO:HB3	12:b:56:SER:CB	1.65	1.24
10:U:1307:ARG:NH2	13:a:1001:LYS:CE	2.01	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:455:LYS:O	11:Q:698:LEU:CG	1.84	1.24
11:O:791:LYS:C	11:Q:588:LEU:HD22	1.31	1.24
4:R:363:PHE:CE1	4:R:551:LEU:HB2	1.71	1.24
1:H:322:GLN:HE21	11:M:1:MET:CG	1.48	1.24
5:g:24:TYR:HB2	15:f:735:ARG:NH1	1.37	1.24
6:l:617:GLU:O	13:a:1313:GLY:C	1.79	1.24
6:l:618:HIS:CA	13:a:1312:HIS:C	1.99	1.24
9:C:653:GLU:OE2	13:A:1042:LEU:HD12	1.06	1.24
9:c:323:HIS:CG	4:R:129:LYS:HD3	1.32	1.24
11:O:469:SER:OG	11:Q:667:ILE:HG13	1.13	1.24
11:O:782:PRO:CB	11:Q:654:ALA:HA	1.55	1.24
2:t:356:GLN:O	3:s:1736:LEU:HD11	1.33	1.23
2:t:364:TRP:CZ2	3:s:1739:ILE:N	1.78	1.23
5:G:291:SER:C	15:F:653:ARG:HH12	1.44	1.23
6:L:1695:LEU:HG	9:C:247:GLN:NE2	1.49	1.23
6:l:617:GLU:HB2	13:a:1250:GLN:NE2	1.53	1.23
7:e:321:GLY:CA	9:c:16:LEU:CB	2.15	1.23
9:C:653:GLU:OE2	13:A:1042:LEU:CD1	1.85	1.23
9:c:599:MET:CE	13:a:1121:LEU:HD11	1.67	1.23
11:O:482:LEU:CD2	11:Q:794:ARG:NH1	1.99	1.23
11:O:595:LYS:NZ	11:Q:591:PHE:CE2	2.04	1.23
11:O:782:PRO:CD	11:Q:657:ASP:OD2	1.85	1.23
1:H:720:GLU:HG3	11:Q:7:GLU:CG	1.67	1.23
2:t:382:VAL:HG13	3:s:1757:THR:O	1.06	1.23
5:G:13:GLU:OE1	13:A:1334:ARG:HG2	1.34	1.23
7:e:7:ILE:HB	9:c:54:MET:CB	1.67	1.23
4:r:146:PRO:C	4:R:510:ALA:HA	1.51	1.23
6:L:614:ALA:N	13:A:1247:ARG:HH21	1.25	1.23
11:O:12:VAL:O	15:f:584:SER:OG	1.53	1.23
11:O:437:LEU:CD2	11:Q:699:PRO:HB3	1.68	1.23
12:b:174:HIS:CE1	13:a:921:LYS:HZ3	1.56	1.23
4:R:636:THR:HG22	2:T:450:HIS:ND1	1.51	1.23
4:R:673:MET:SD	3:S:835:LEU:HD11	1.78	1.23
9:C:600:ARG:HH22	13:A:1222:THR:CG2	1.50	1.23
4:R:541:SER:CB	3:S:699:THR:CA	2.17	1.23
2:t:375:PHE:CD2	3:s:1750:LEU:CD2	2.21	1.23
5:G:270:SER:HA	15:F:255:TRP:N	1.51	1.23
8:D:189:VAL:CG1	9:C:519:LEU:CD1	2.17	1.23
11:O:595:LYS:C	11:Q:795:PHE:CG	1.97	1.23
2:t:378:GLN:HB2	3:s:1754:LYS:CG	1.68	1.22
6:l:617:GLU:CB	13:a:1250:GLN:HE21	1.52	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:1243:GLY:HA3	13:a:1276:GLU:OE1	1.34	1.22
6:l:1471:SER:CA	8:d:302:ARG:HH22	1.50	1.22
7:E:309:TYR:CB	9:C:390:LEU:CD2	1.96	1.22
7:e:7:ILE:H	9:c:54:MET:N	1.37	1.22
8:d:279:GLU:CB	9:c:453:ARG:NH1	1.94	1.22
9:c:599:MET:CE	13:a:1121:LEU:CD1	2.15	1.22
9:c:600:ARG:NH2	13:a:1222:THR:HG22	0.91	1.22
11:O:646:GLU:O	11:Q:788:SER:CA	1.88	1.22
11:O:781:SER:CA	11:Q:657:ASP:OD2	1.88	1.22
12:b:264:GLU:OE2	13:a:973:LEU:CD2	1.85	1.22
4:R:541:SER:OG	3:S:699:THR:HA	1.33	1.22
5:g:48:ILE:HG23	6:l:541:ASN:OD1	1.34	1.22
6:l:613:LEU:CD2	13:a:1250:GLN:O	1.73	1.22
9:c:620:LYS:O	11:M:13:GLU:OE2	1.56	1.22
1:h:226:LEU:HD11	11:P:548:ALA:N	1.11	1.22
7:E:314:LYS:HD3	9:C:4:LEU:N	1.53	1.22
7:e:6:SER:CB	9:c:55:TYR:CE1	1.95	1.22
9:c:600:ARG:NH2	13:a:1222:THR:CG2	1.84	1.22
11:O:467:GLU:N	11:Q:689:LYS:HG2	1.28	1.22
11:O:672:SER:OG	11:Q:787:ILE:HD11	1.05	1.22
12:B:287:HIS:ND1	13:A:1008:HIS:HD2	1.34	1.22
4:R:544:PRO:HG3	3:S:701:GLU:CA	1.59	1.22
2:t:357:LEU:HD12	4:r:543:PRO:CB	1.56	1.22
7:e:148:MET:CG	9:c:499:LEU:HD11	1.68	1.22
4:R:635:HIS:HB2	2:T:453:GLU:CG	1.50	1.22
6:L:613:LEU:CD2	13:A:1247:ARG:HG2	1.69	1.21
6:l:1471:SER:CA	8:d:302:ARG:NH2	2.02	1.21
9:C:641:LEU:CD2	13:A:1121:LEU:CG	2.18	1.21
11:O:460:ILE:CG1	11:Q:700:ALA:HA	1.57	1.21
12:B:219:ARG:CD	13:A:917:GLY:CA	2.18	1.21
4:R:532:LEU:HD12	2:T:362:ILE:N	1.12	1.21
11:O:470:ARG:NH1	11:Q:671:GLU:HB2	1.54	1.21
4:R:602:LEU:HD13	2:T:408:LYS:CG	1.68	1.21
7:E:5:ARG:HB3	9:C:55:TYR:CB	1.67	1.21
11:O:461:PHE:HB2	11:Q:702:GLU:O	1.07	1.21
11:O:596:GLU:HA	11:Q:795:PHE:CZ	1.74	1.21
11:O:649:ALA:CB	11:Q:788:SER:CB	1.99	1.21
5:g:13:GLU:CD	13:a:1383:ALA:CB	2.10	1.21
6:L:777:PRO:CG	7:E:257:LEU:C	2.13	1.21
6:l:51:ILE:HG21	10:U:1086:ARG:NH2	1.55	1.21
6:l:51:ILE:CG2	10:U:1086:ARG:NH1	1.83	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:309:TYR:CG	9:C:390:LEU:CD2	2.21	1.21
11:O:465:PRO:CB	11:Q:689:LYS:CB	2.02	1.21
11:O:465:PRO:C	11:Q:689:LYS:CB	2.07	1.21
1:H:313:GLU:CD	11:M:1:MET:HG3	1.66	1.21
1:H:461:ILE:CG2	11:N:27:MET:HB3	1.69	1.21
1:h:723:MET:CE	11:P:333:VAL:HG22	1.70	1.21
5:g:291:SER:C	15:f:653:ARG:HH12	1.47	1.21
11:O:460:ILE:CG2	11:Q:703:GLN:HB3	1.70	1.21
4:r:122:GLU:CB	4:R:506:PRO:CB	2.20	1.20
5:G:26:ILE:HG12	15:F:735:ARG:NH2	1.45	1.20
7:E:310:MET:CA	9:C:391:TYR:CD2	2.24	1.20
8:d:260:GLU:H	9:c:453:ARG:NH2	1.39	1.20
10:U:1313:ARG:NH2	13:a:795:GLN:CB	1.90	1.20
11:O:464:VAL:HA	11:Q:709:CYS:N	1.54	1.20
5:g:13:GLU:OE1	13:a:1334:ARG:HG2	1.33	1.20
9:c:256:TRP:CB	4:R:461:LEU:HD22	1.71	1.20
11:O:454:ARG:CD	11:Q:695:ASN:ND2	2.05	1.20
11:O:463:ARG:CZ	11:Q:752:LEU:HB3	1.70	1.20
4:R:496:GLN:N	2:T:385:ALA:CB	2.05	1.20
1:H:317:ASP:CB	15:F:463:HIS:HD2	1.37	1.20
5:G:291:SER:O	15:F:653:ARG:NH1	1.73	1.20
6:L:613:LEU:CB	13:A:1247:ARG:HE	1.41	1.20
9:c:257:GLN:HE22	4:R:464:GLY:N	1.24	1.20
4:R:574:ILE:HD11	2:T:376:PHE:CE2	1.74	1.20
1:H:321:ARG:CD	15:F:461:GLY:HA3	1.69	1.20
4:r:96:PHE:CD1	4:R:512:VAL:HG13	1.77	1.20
5:g:58:GLY:HA2	13:a:1378:TRP:CD1	1.65	1.20
6:L:1526:ASP:OD1	9:C:92:LYS:HE2	1.36	1.20
8:d:365:GLU:HB3	9:c:69:ARG:CZ	1.56	1.20
11:O:538:ILE:HG21	11:Q:704:GLU:C	1.65	1.20
1:H:234:ILE:CD1	11:N:34:ARG:NH1	2.04	1.20
2:t:382:VAL:HG13	3:s:1757:THR:C	1.67	1.20
4:r:145:ILE:CG1	4:R:505:LEU:O	1.81	1.20
6:l:617:GLU:O	13:a:1313:GLY:CA	1.75	1.20
7:e:321:GLY:N	9:c:16:LEU:HD23	1.55	1.20
13:a:1167:SER:OG	15:f:859:ARG:NH2	1.73	1.20
4:R:635:HIS:CD2	2:T:454:GLU:H	1.60	1.20
3:S:782:ILE:HD13	2:T:432:LEU:HD11	1.21	1.20
1:H:716:SER:OG	11:Q:3:ARG:HG2	1.40	1.19
2:t:378:GLN:HB3	3:s:1754:LYS:CB	1.69	1.19
4:r:147:ILE:HG12	4:R:510:ALA:C	1.24	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D:122:HIS:CG	9:C:478:ASN:O	1.93	1.19
12:b:221:THR:CG2	13:a:918:GLU:OE2	1.90	1.19
5:g:285:VAL:CG2	15:f:265:GLY:C	2.15	1.19
6:l:1596:HIS:NE2	4:R:209:THR:HB	1.40	1.19
7:E:231:LEU:CD2	9:C:435:LEU:HD22	1.71	1.19
7:E:309:TYR:HB2	9:C:390:LEU:CG	1.72	1.19
7:e:7:ILE:CA	9:c:54:MET:H	1.53	1.19
7:e:298:ASP:OD1	9:c:22:HIS:NE2	1.76	1.19
4:R:532:LEU:CG	2:T:362:ILE:H	1.54	1.19
6:l:1596:HIS:CD2	4:R:209:THR:HB	1.77	1.19
9:c:320:THR:HA	4:R:128:GLY:O	1.02	1.19
11:O:457:LEU:HD23	11:Q:702:GLU:N	1.36	1.19
11:O:458:LYS:CE	11:Q:692:GLU:C	2.15	1.19
4:r:143:ARG:O	4:R:506:PRO:CB	1.91	1.19
5:g:58:GLY:O	13:a:1378:TRP:NE1	1.76	1.19
5:g:302:VAL:O	15:f:267:LYS:O	1.56	1.19
5:G:285:VAL:CG2	15:F:265:GLY:C	2.16	1.19
6:L:1248:GLY:CA	13:A:1260:TRP:CH2	2.17	1.19
6:L:1696:ASN:CB	9:C:253:GLU:O	1.91	1.19
6:L:1700:MET:C	9:C:254:LEU:HD13	1.67	1.19
6:l:1471:SER:HA	8:d:302:ARG:NH2	1.57	1.19
7:E:32:SER:C	9:C:41:LYS:HD2	1.65	1.19
9:c:573:LEU:CB	9:c:605:ARG:HH12	1.43	1.19
11:O:454:ARG:O	11:Q:698:LEU:HD21	1.33	1.19
11:O:590:SER:O	11:Q:796:SER:HB3	1.41	1.19
6:L:465:GLU:HG2	13:A:1197:SER:O	1.41	1.19
9:c:624:SER:HB3	11:M:14:ASN:HA	1.23	1.19
11:O:463:ARG:CB	11:Q:707:GLN:O	1.90	1.19
11:O:596:GLU:CA	11:Q:795:PHE:CE1	2.25	1.19
12:b:219:ARG:CD	13:a:917:GLY:CA	2.18	1.19
4:R:501:SER:CB	2:T:392:GLN:NE2	2.06	1.19
1:H:471:ARG:HD3	15:f:896:ARG:CZ	1.72	1.18
1:h:226:LEU:CB	11:P:549:LYS:CB	2.02	1.18
2:t:360:LEU:HD11	3:s:1736:LEU:C	1.63	1.18
6:L:1695:LEU:CG	9:C:247:GLN:HE21	1.55	1.18
8:D:129:ALA:CB	9:C:480:ARG:HH21	1.56	1.18
10:U:1362:GLN:OE1	13:a:1024:ARG:CA	1.89	1.18
11:O:786:THR:CB	11:Q:578:ALA:C	2.11	1.18
13:a:1170:ILE:HD12	15:f:903:TYR:OH	1.42	1.18
5:g:291:SER:O	15:f:653:ARG:NH1	1.76	1.18
6:l:619:ALA:HB3	13:a:1310:LEU:O	1.43	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:1471:SER:O	8:d:302:ARG:NH2	1.76	1.18
7:E:11:HIS:O	9:C:38:LEU:HD11	1.40	1.18
9:C:596:TYR:CE1	13:A:1182:TYR:CE2	2.06	1.18
10:U:1388:SER:O	13:a:1148:ARG:CZ	1.91	1.18
11:O:652:ALA:CB	11:Q:791:LYS:N	2.06	1.18
11:O:662:LYS:NZ	11:Q:595:LYS:HZ3	1.41	1.18
4:R:363:PHE:CE1	4:R:551:LEU:CB	2.26	1.18
6:L:777:PRO:HB2	7:E:258:SER:CA	1.72	1.18
6:l:51:ILE:CG2	10:U:1086:ARG:HH12	1.23	1.18
13:A:1167:SER:OG	15:F:859:ARG:NH2	1.75	1.18
4:R:627:LEU:CD1	3:S:782:ILE:HD11	1.71	1.18
7:E:310:MET:CA	9:C:391:TYR:HD2	1.55	1.18
7:e:7:ILE:HG13	9:c:54:MET:O	1.42	1.18
9:c:619:GLN:CA	11:M:6:ALA:O	1.89	1.18
11:O:463:ARG:NH2	11:Q:752:LEU:CB	2.05	1.18
11:O:789:PRO:HD3	11:Q:580:GLY:O	1.38	1.18
4:R:559:PHE:CZ	3:S:716:PHE:HB2	1.72	1.18
4:R:616:ALA:HA	2:T:422:LEU:CD2	1.73	1.18
4:R:662:LEU:CD2	3:S:825:LYS:HG3	1.69	1.18
1:h:892:LEU:HD21	14:i:960:LEU:HD22	1.20	1.18
2:t:382:VAL:CG1	3:s:1757:THR:O	1.92	1.18
6:l:613:LEU:CB	13:a:1250:GLN:CB	1.99	1.18
9:c:622:ASP:O	11:M:17:ASN:ND2	1.75	1.18
11:O:3:ARG:HH12	15:f:589:PRO:CB	1.57	1.18
11:O:461:PHE:HD2	11:Q:702:GLU:C	1.51	1.18
11:O:464:VAL:HG11	11:Q:705:GLU:CB	1.57	1.18
11:O:785:LEU:HB3	11:Q:582:HIS:CD2	1.79	1.18
11:O:789:PRO:HG3	11:Q:450:LEU:HD13	1.24	1.18
12:b:120:ILE:HG23	13:a:520:GLN:NE2	1.57	1.18
6:L:1249:GLN:HB3	13:A:1275:LYS:C	1.68	1.17
11:O:31:LEU:HB3	15:f:592:LYS:CE	1.74	1.17
11:O:791:LYS:HA	11:Q:454:ARG:NE	0.92	1.17
12:B:221:THR:CG2	13:A:918:GLU:OE2	1.90	1.17
4:R:596:ARG:NH2	3:S:746:GLU:CG	2.05	1.17
3:S:716:PHE:CD1	2:T:365:TRP:CZ2	2.29	1.17
2:t:358:GLU:CA	4:r:443:PRO:HG3	1.73	1.17
3:s:1728:VAL:HG12	4:r:543:PRO:CA	1.73	1.17
4:r:110:VAL:O	4:R:508:VAL:HG13	1.42	1.17
5:g:2:VAL:HG22	15:f:309:LEU:HD11	1.22	1.17
5:G:302:VAL:O	15:F:267:LYS:O	1.59	1.17
7:E:91:GLY:HA2	8:D:127:MET:HG3	1.22	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:U:1362:GLN:OE1	13:a:1024:ARG:HA	1.02	1.17
11:O:475:ILE:CD1	11:Q:767:HIS:CG	2.26	1.17
11:O:782:PRO:N	11:Q:657:ASP:OD2	1.76	1.17
4:R:543:PRO:CB	3:S:702:SER:O	1.92	1.17
6:L:617:GLU:HG2	13:A:1312:HIS:NE2	1.58	1.17
7:E:311:ASP:HA	9:C:392:PHE:CZ	1.78	1.17
11:O:551:ARG:CD	11:Q:766:ASN:HD22	1.56	1.17
11:O:781:SER:C	11:Q:657:ASP:OD2	1.88	1.17
13:A:1170:ILE:HD12	15:F:903:TYR:CZ	1.33	1.17
4:R:616:ALA:CA	2:T:422:LEU:CD2	2.20	1.17
2:t:364:TRP:HH2	3:s:1735:ILE:O	1.26	1.17
5:g:292:VAL:C	15:f:653:ARG:NH2	2.03	1.17
6:l:617:GLU:CB	13:a:1250:GLN:NE2	2.05	1.17
11:O:781:SER:HB3	11:Q:777:HIS:CG	1.77	1.17
4:R:535:ASN:OD1	3:S:706:LEU:HD22	1.35	1.17
1:H:461:ILE:HG23	11:N:27:MET:HB2	1.19	1.17
4:r:145:ILE:HA	4:R:505:LEU:CD2	1.73	1.17
6:L:1695:LEU:HD21	9:C:248:THR:O	1.43	1.17
8:D:11:SER:O	9:C:69:ARG:NH1	1.77	1.17
9:c:619:GLN:HB3	11:M:7:GLU:CA	1.73	1.17
11:O:35:LEU:HD12	15:f:586:GLY:O	1.45	1.17
11:O:454:ARG:HD3	11:Q:695:ASN:HD21	1.00	1.17
11:O:463:ARG:HH21	11:Q:752:LEU:C	1.53	1.17
11:O:582:HIS:ND1	11:Q:792:SER:CB	2.08	1.17
11:O:782:PRO:CB	11:Q:654:ALA:CA	2.10	1.17
3:S:716:PHE:CD1	2:T:365:TRP:CZ3	2.32	1.17
8:D:13:LYS:HE3	9:C:413:SER:CA	1.74	1.16
9:C:641:LEU:HD21	13:A:1121:LEU:CG	1.75	1.16
9:c:596:TYR:CD1	13:a:1121:LEU:HD13	1.79	1.16
12:B:120:ILE:HG23	13:A:520:GLN:NE2	1.57	1.16
13:A:1170:ILE:HD12	15:F:903:TYR:OH	1.43	1.16
4:R:487:PRO:CG	2:T:373:GLU:OE2	1.93	1.16
1:H:313:GLU:CD	11:M:1:MET:N	2.01	1.16
5:G:292:VAL:C	15:F:653:ARG:NH2	2.02	1.16
6:l:620:GLN:NE2	13:a:1339:TYR:CD1	2.12	1.16
7:E:308:ASN:O	9:C:392:PHE:CE2	1.98	1.16
8:D:189:VAL:HG11	9:C:519:LEU:CD1	1.76	1.16
10:U:1211:PRO:HD3	12:b:57:THR:CA	1.61	1.16
10:U:1363:SER:HB3	13:a:997:THR:CG2	1.76	1.16
11:O:780:PRO:HB2	11:Q:656:LEU:CG	1.75	1.16
4:R:496:GLN:CG	2:T:385:ALA:HB1	1.75	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:147:ILE:HG12	4:R:511:ASP:N	1.60	1.16
7:E:7:ILE:HD12	9:C:34:LEU:O	1.41	1.16
7:e:282:TRP:CG	9:c:39:TYR:CD2	2.33	1.16
9:c:257:GLN:HE21	4:R:462:PHE:C	1.52	1.16
4:R:491:PRO:O	2:T:377:LEU:O	1.63	1.16
4:R:676:GLN:NE2	3:S:839:TRP:CD2	2.13	1.16
1:H:471:ARG:HD3	15:f:896:ARG:NH2	1.60	1.16
4:r:122:GLU:CD	4:R:506:PRO:HA	1.71	1.16
6:L:1693:ILE:C	9:C:247:GLN:OE1	1.86	1.16
8:d:9:PHE:HB3	9:c:70:LYS:HE2	1.20	1.16
11:O:475:ILE:HD13	11:Q:767:HIS:CG	1.80	1.16
12:B:219:ARG:HD2	13:A:917:GLY:HA2	1.18	1.16
4:R:635:HIS:CD2	2:T:454:GLU:N	2.14	1.16
4:R:666:ILE:CD1	2:T:476:LEU:HD21	1.71	1.16
1:H:554:GLN:NE2	11:N:544:PRO:HA	1.54	1.16
1:H:554:GLN:HE22	11:N:544:PRO:CG	1.58	1.16
4:r:122:GLU:CG	4:R:506:PRO:HB3	1.69	1.16
7:E:5:ARG:CB	9:C:55:TYR:HB3	1.69	1.16
9:c:624:SER:HB3	11:M:14:ASN:CA	1.75	1.16
11:O:482:LEU:HD22	11:Q:794:ARG:CZ	1.73	1.16
7:e:4:ALA:HB2	9:c:13:ILE:CD1	1.45	1.15
8:d:279:GLU:CG	9:c:453:ARG:NH1	2.09	1.15
11:O:662:LYS:HZ1	11:Q:595:LYS:NZ	1.42	1.15
1:H:313:GLU:HG3	11:M:1:MET:H1	1.00	1.15
2:t:358:GLU:HG3	4:r:443:PRO:CG	1.74	1.15
3:s:1739:ILE:CA	4:r:552:LEU:CD1	2.19	1.15
6:l:1245:ALA:CA	13:a:1274:THR:C	2.19	1.15
7:e:7:ILE:CB	9:c:54:MET:HB2	1.76	1.15
11:O:465:PRO:CA	11:Q:689:LYS:CB	2.24	1.15
12:b:223:ARG:NH2	13:a:976:GLN:HE22	1.44	1.15
4:R:659:LEU:HD11	2:T:469:LEU:CD1	1.76	1.15
1:H:496:LEU:HD13	15:f:791:HIS:CD2	1.81	1.15
3:s:1728:VAL:HG12	4:r:543:PRO:HA	1.22	1.15
6:L:466:PRO:CG	13:A:1196:PRO:C	2.09	1.15
6:L:1244:MET:SD	13:A:1281:ASP:O	2.04	1.15
11:O:786:THR:HB	11:Q:578:ALA:O	1.02	1.15
12:b:219:ARG:CD	13:a:917:GLY:HA2	1.75	1.15
4:R:477:ILE:HD13	2:T:359:GLU:CB	1.76	1.15
4:R:496:GLN:HG3	2:T:385:ALA:HB1	1.15	1.15
1:h:892:LEU:CD2	14:i:960:LEU:HD22	1.77	1.15
2:t:358:GLU:HA	4:r:443:PRO:HG3	1.25	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:96:PHE:CE1	4:R:512:VAL:HA	1.80	1.15
5:G:275:ILE:HB	15:F:255:TRP:NE1	1.60	1.15
5:G:285:VAL:HG23	15:F:265:GLY:C	1.70	1.15
6:L:613:LEU:CD1	13:A:1247:ARG:HD3	1.76	1.15
6:L:1696:ASN:HB2	9:C:253:GLU:C	1.70	1.15
6:l:1596:HIS:NE2	4:R:209:THR:HA	1.57	1.15
11:O:461:PHE:CD2	11:Q:702:GLU:C	2.25	1.15
11:O:646:GLU:O	11:Q:788:SER:HA	0.98	1.15
11:O:792:SER:N	11:Q:454:ARG:NH1	1.94	1.15
4:R:673:MET:CG	3:S:835:LEU:HD11	1.69	1.15
1:h:229:GLU:OE2	11:P:549:LYS:NZ	1.80	1.15
2:t:364:TRP:CH2	3:s:1735:ILE:O	2.00	1.15
2:t:364:TRP:HB3	3:s:1743:ILE:HD11	1.18	1.15
6:L:788:GLN:OE1	13:A:1401:GLN:N	1.65	1.15
6:l:613:LEU:HB3	13:a:1250:GLN:HB2	1.29	1.15
8:D:279:GLU:OE2	9:C:450:LYS:HE2	1.47	1.15
12:B:175:PRO:HD2	13:A:921:LYS:HZ1	1.10	1.15
5:G:58:GLY:O	13:A:1378:TRP:NE1	1.76	1.14
6:L:1699:SER:CB	9:C:254:LEU:N	1.94	1.14
9:c:174:GLU:OE2	9:c:300:THR:HG21	1.45	1.14
9:c:256:TRP:H	4:R:461:LEU:HD21	1.01	1.14
9:c:320:THR:HA	4:R:128:GLY:C	1.71	1.14
11:O:652:ALA:HB1	11:Q:791:LYS:C	1.73	1.14
11:O:672:SER:OG	11:Q:787:ILE:CD1	1.95	1.14
11:O:787:ILE:HD13	11:Q:583:LYS:CG	1.76	1.14
13:a:1172:ILE:HD13	15:f:901:GLU:C	1.73	1.14
4:R:627:LEU:HD11	3:S:782:ILE:HD11	1.25	1.14
5:g:285:VAL:HG23	15:f:265:GLY:C	1.71	1.14
9:C:653:GLU:CD	13:A:1042:LEU:CD1	2.19	1.14
11:O:775:ILE:HD12	11:Q:785:LEU:HG	1.23	1.14
12:B:264:GLU:OE2	13:A:973:LEU:CD2	1.85	1.14
4:R:630:ILE:HG21	2:T:436:GLU:HG2	1.16	1.14
1:H:720:GLU:HG2	11:Q:7:GLU:OE1	1.36	1.14
2:t:363:LYS:CD	3:s:1740:ARG:NE	2.11	1.14
5:g:275:ILE:HB	15:f:255:TRP:NE1	1.60	1.14
6:L:723:GLY:C	13:A:1399:HIS:HD2	1.55	1.14
7:E:318:VAL:O	9:C:10:GLU:HA	1.46	1.14
8:D:279:GLU:CB	9:C:453:ARG:NH1	2.06	1.14
9:c:573:LEU:HD13	9:c:605:ARG:NH1	1.60	1.14
11:O:463:ARG:CB	11:Q:707:GLN:C	2.19	1.14
11:O:593:ASP:O	11:Q:794:ARG:O	1.64	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:656:LEU:CB	11:Q:793:ALA:HB2	1.78	1.14
11:O:790:SER:CB	11:Q:454:ARG:CB	2.13	1.14
12:B:223:ARG:HH21	13:A:976:GLN:NE2	1.44	1.14
4:R:602:LEU:HD13	2:T:408:LYS:HG2	1.18	1.14
2:t:382:VAL:HG11	3:s:1757:THR:HB	1.30	1.14
5:g:269:TRP:O	15:f:254:GLY:CA	1.96	1.14
11:O:455:LYS:HG2	11:Q:695:ASN:CB	1.77	1.14
11:O:481:LEU:CD2	11:Q:693:ILE:CG2	2.26	1.14
11:O:673:VAL:HG21	11:Q:787:ILE:HG21	1.24	1.14
11:O:782:PRO:CD	11:Q:777:HIS:CE1	2.30	1.14
11:O:791:LYS:H	11:Q:588:LEU:HD11	1.11	1.14
2:t:382:VAL:CG1	3:s:1757:THR:C	2.21	1.14
5:G:26:ILE:CD1	15:F:735:ARG:NH2	2.11	1.14
7:e:91:GLY:CA	8:d:127:MET:HG3	1.78	1.14
7:e:148:MET:HG3	9:c:499:LEU:CD1	1.77	1.14
8:d:13:LYS:HE3	9:c:413:SER:CA	1.76	1.14
9:c:252:PHE:CD1	4:R:461:LEU:CD1	2.30	1.14
9:c:254:LEU:HD13	4:R:386:ILE:HG12	1.30	1.14
11:O:465:PRO:CA	11:Q:689:LYS:HB3	1.75	1.14
12:B:223:ARG:NH2	13:A:976:GLN:HE22	1.44	1.14
1:H:461:ILE:CG2	11:N:27:MET:HB2	1.75	1.13
2:t:362:ASN:HA	4:r:533:LEU:N	1.45	1.13
5:g:16:ILE:HG22	15:f:303:LYS:HA	1.19	1.13
11:O:1:MET:SD	15:f:567:GLU:N	2.15	1.13
11:O:656:LEU:CD1	11:Q:793:ALA:HB1	1.76	1.13
11:O:775:ILE:HD12	11:Q:785:LEU:CG	1.77	1.13
4:R:496:GLN:OE1	2:T:389:THR:OG1	1.63	1.13
1:H:313:GLU:HG2	11:M:1:MET:H1	1.05	1.13
1:H:313:GLU:OE1	11:M:1:MET:N	1.80	1.13
6:L:673:VAL:CG1	13:A:1397:ASN:CG	2.21	1.13
6:L:777:PRO:CG	7:E:257:LEU:HB2	1.65	1.13
7:E:314:LYS:CD	9:C:4:LEU:N	2.11	1.13
11:O:481:LEU:HD13	11:Q:693:ILE:CG2	1.33	1.13
11:O:789:PRO:HB3	11:Q:584:THR:HA	1.18	1.13
4:R:571:ASN:OD1	3:S:730:ALA:HB2	1.46	1.13
4:r:145:ILE:CA	4:R:505:LEU:HD23	1.77	1.13
6:L:465:GLU:OE1	13:A:1201:ILE:HD12	0.96	1.13
6:L:613:LEU:HD13	13:A:1247:ARG:HD3	1.15	1.13
6:L:777:PRO:CB	7:E:258:SER:CA	2.26	1.13
6:L:1696:ASN:HB3	9:C:257:GLN:N	1.51	1.13
7:E:2:PHE:CB	9:C:11:THR:OG1	1.96	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:645:ILE:HG21	13:a:1122:ALA:CB	1.79	1.13
11:O:782:PRO:HD3	11:Q:657:ASP:OD2	1.43	1.13
11:M:7:GLU:O	15:F:435:GLU:OE1	1.65	1.13
2:t:362:ASN:N	4:r:533:LEU:HB2	0.81	1.13
3:s:1735:ILE:HD11	4:r:545:PRO:C	1.72	1.13
4:r:96:PHE:HE1	4:R:512:VAL:CB	1.58	1.13
8:d:39:ASP:C	9:c:412:HIS:HD2	1.30	1.13
9:C:641:LEU:HD21	13:A:1121:LEU:HG	1.16	1.13
9:c:619:GLN:CB	11:M:7:GLU:HA	1.78	1.13
11:O:469:SER:OG	11:Q:667:ILE:CG1	1.96	1.13
13:A:1172:ILE:HD13	15:F:901:GLU:C	1.73	1.13
6:l:613:LEU:HD22	13:a:1250:GLN:CA	1.74	1.12
9:C:645:ILE:HD12	13:A:1122:ALA:HA	1.27	1.13
11:O:467:GLU:H	11:Q:689:LYS:CG	1.61	1.13
11:O:782:PRO:HD2	11:Q:777:HIS:ND1	1.63	1.13
11:O:792:SER:CA	11:Q:588:LEU:CD2	2.17	1.13
11:M:91:PRO:CB	15:F:586:GLY:HA2	1.78	1.13
12:B:219:ARG:NH1	13:A:917:GLY:HA2	1.63	1.13
2:t:356:GLN:O	3:s:1736:LEU:CD1	1.95	1.12
9:c:434:LYS:HG2	9:c:460:MET:HE3	1.28	1.12
12:b:223:ARG:HH21	13:a:976:GLN:NE2	1.44	1.12
4:R:447:ARG:NH2	3:S:706:LEU:HD12	1.64	1.12
4:R:487:PRO:HG2	2:T:373:GLU:OE1	1.48	1.12
4:R:605:THR:C	2:T:411:GLN:NE2	2.06	1.12
4:R:662:LEU:HD21	3:S:825:LYS:CA	1.77	1.12
3:s:1735:ILE:CD1	4:r:548:CYS:CA	2.17	1.12
5:G:168:VAL:HA	15:F:684:PRO:HD2	1.16	1.12
6:L:1699:SER:OG	9:C:254:LEU:N	1.76	1.12
7:E:148:MET:HG2	9:C:499:LEU:CD2	1.60	1.12
7:E:274:PHE:CE1	9:C:3:GLU:OE1	1.92	1.12
8:D:169:SER:O	9:C:516:ASP:CG	1.84	1.12
8:D:260:GLU:N	9:C:453:ARG:NH2	1.94	1.12
9:c:573:LEU:CD1	9:c:605:ARG:NH1	2.10	1.12
12:b:157:LYS:HD2	13:a:524:ARG:HD2	1.23	1.12
12:b:223:ARG:HD2	13:a:920:HIS:CD2	1.42	1.12
5:G:16:ILE:HG22	15:F:303:LYS:HA	1.21	1.12
6:L:1244:MET:HA	13:A:1281:ASP:HB3	1.26	1.12
10:U:1211:PRO:HB2	12:b:56:SER:OG	1.36	1.12
11:O:14:ASN:HB2	15:f:584:SER:HA	1.21	1.12
11:O:792:SER:H	11:Q:454:ARG:NH1	1.46	1.12
3:S:824:VAL:HG22	2:T:473:ALA:CA	1.78	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:824:VAL:HG22	2:T:473:ALA:HA	1.23	1.12
1:H:158:PRO:HB2	11:N:475:ILE:HD12	1.18	1.12
11:O:776:LYS:HB2	11:Q:780:PRO:HB2	1.15	1.12
4:R:613:PHE:HD2	2:T:418:LEU:CD2	1.61	1.12
2:t:357:LEU:HG	3:s:1732:SER:HB3	1.27	1.12
5:G:58:GLY:C	13:A:1378:TRP:HE1	1.53	1.12
6:l:1245:ALA:HB1	13:a:1275:LYS:N	1.59	1.12
7:e:4:ALA:HB2	9:c:13:ILE:HD12	1.16	1.12
7:e:6:SER:C	9:c:54:MET:O	1.92	1.12
11:O:3:ARG:HH12	15:f:589:PRO:CG	1.52	1.12
11:O:596:GLU:N	11:Q:795:PHE:CD1	2.18	1.12
11:O:656:LEU:CD1	11:Q:793:ALA:CB	2.27	1.12
12:b:219:ARG:NH1	13:a:917:GLY:HA2	1.63	1.12
1:H:712:ALA:CB	11:Q:35:LEU:HD21	1.77	1.11
1:H:719:GLU:CB	11:Q:7:GLU:CA	2.27	1.11
3:s:1735:ILE:HD13	4:r:548:CYS:C	1.74	1.11
4:r:144:THR:O	4:R:505:LEU:HG	1.48	1.11
7:E:14:LEU:HD11	9:C:40:GLN:HB2	1.15	1.11
7:e:322:ASP:HB2	9:c:15:GLY:N	1.36	1.11
12:b:219:ARG:HD2	13:a:917:GLY:HA2	1.18	1.11
4:R:447:ARG:CZ	3:S:702:SER:HB3	1.79	1.11
4:R:487:PRO:HG3	2:T:373:GLU:OE2	1.47	1.11
4:R:651:GLU:CD	3:S:818:ARG:HH22	1.52	1.11
5:g:26:ILE:CD1	15:f:735:ARG:NH2	2.12	1.11
5:G:168:VAL:CA	15:F:684:PRO:HD2	1.80	1.11
11:O:462:PRO:HD2	11:Q:707:GLN:HG2	1.28	1.11
11:O:656:LEU:HD12	11:Q:793:ALA:CB	1.79	1.11
4:R:363:PHE:HE1	4:R:551:LEU:CG	1.64	1.11
3:S:824:VAL:HG13	2:T:476:LEU:HD12	1.31	1.11
2:t:378:GLN:HB3	3:s:1754:LYS:HB3	1.17	1.11
4:r:153:THR:CG2	4:R:518:GLU:HB3	1.81	1.11
6:L:777:PRO:HB2	7:E:257:LEU:O	1.49	1.11
8:d:13:LYS:CE	9:c:413:SER:HB2	1.80	1.11
11:O:463:ARG:HA	11:Q:710:LEU:HG	1.12	1.11
11:O:464:VAL:CG1	11:Q:705:GLU:HB3	1.80	1.11
11:O:787:ILE:CD1	11:Q:583:LYS:CG	2.29	1.11
12:B:219:ARG:CD	13:A:917:GLY:HA2	1.75	1.11
3:s:1739:ILE:HG12	4:r:552:LEU:HD12	1.20	1.11
5:G:269:TRP:O	15:F:254:GLY:CA	1.98	1.11
9:c:257:GLN:HG3	4:R:461:LEU:O	0.97	1.11
9:c:619:GLN:CG	11:M:7:GLU:CA	2.28	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:464:VAL:CA	11:Q:709:CYS:H	1.62	1.11
3:s:1728:VAL:CG1	4:r:544:PRO:CD	2.23	1.11
4:r:122:GLU:HB2	4:R:506:PRO:HB3	1.13	1.11
4:r:145:ILE:HD13	4:R:505:LEU:O	1.35	1.11
4:r:146:PRO:CA	4:R:509:LEU:O	1.75	1.11
5:g:24:TYR:HD2	15:f:735:ARG:CZ	1.64	1.11
5:g:168:VAL:HA	15:f:684:PRO:HD2	1.17	1.11
6:l:169:MET:CE	10:U:1130:THR:HA	1.81	1.11
8:D:122:HIS:HE1	9:C:480:ARG:CG	1.53	1.11
11:O:780:PRO:CB	11:Q:656:LEU:CG	2.29	1.11
11:M:92:THR:HG23	15:F:585:LEU:O	1.49	1.11
4:R:555:ALA:HB1	3:S:712:GLU:OE1	1.33	1.11
4:R:636:THR:CG2	2:T:450:HIS:CE1	2.34	1.11
1:H:313:GLU:CD	11:M:1:MET:H3	1.55	1.10
1:h:723:MET:HE2	11:P:333:VAL:HG22	1.24	1.10
5:g:58:GLY:C	13:a:1378:TRP:HE1	1.53	1.10
6:L:1249:GLN:CB	13:A:1275:LYS:C	2.23	1.10
6:L:1523:VAL:HG21	9:C:90:SER:O	1.50	1.10
7:E:148:MET:HG3	9:C:499:LEU:HD11	1.14	1.10
9:c:320:THR:HB	4:R:130:LYS:N	1.58	1.10
11:O:470:ARG:CD	11:Q:667:ILE:HG22	1.81	1.10
12:B:219:ARG:HH11	13:A:917:GLY:HA2	0.99	1.10
4:R:585:LYS:NZ	3:S:739:GLU:CD	2.08	1.10
4:R:609:LEU:CD1	2:T:415:ASP:HA	1.80	1.10
4:R:673:MET:HG2	3:S:835:LEU:CD2	1.79	1.10
2:t:361:ILE:C	4:r:533:LEU:CB	2.14	1.10
5:g:24:TYR:CE2	15:f:735:ARG:CD	2.33	1.10
5:G:2:VAL:HG22	15:F:309:LEU:HD11	1.20	1.10
7:e:321:GLY:C	9:c:16:LEU:HB3	1.76	1.10
11:O:789:PRO:CB	11:Q:584:THR:HA	1.66	1.10
13:A:1170:ILE:CD1	15:F:903:TYR:CZ	2.24	1.10
3:S:782:ILE:CD1	2:T:432:LEU:HD11	1.80	1.10
3:S:824:VAL:HG13	2:T:476:LEU:CD1	1.81	1.10
1:h:226:LEU:HB3	11:P:549:LYS:CA	1.79	1.10
2:t:358:GLU:HG3	4:r:443:PRO:HD3	1.31	1.10
6:L:655:GLU:CG	13:A:1250:GLN:H	1.58	1.10
6:L:777:PRO:HG3	7:E:257:LEU:HB2	1.28	1.10
7:E:314:LYS:CD	9:C:4:LEU:HG	1.81	1.10
7:e:322:ASP:CB	9:c:15:GLY:N	2.14	1.10
11:O:470:ARG:HB3	11:Q:668:ILE:HG13	1.34	1.10
4:R:673:MET:HG2	3:S:835:LEU:HD22	1.24	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:t:357:LEU:HG	3:s:1732:SER:CB	1.80	1.10
5:G:269:TRP:O	15:F:254:GLY:HA2	1.51	1.10
6:L:613:LEU:CD1	13:A:1247:ARG:CD	2.29	1.10
7:E:47:TRP:HB3	9:C:54:MET:HB3	1.16	1.10
7:E:92:GLU:OE1	8:D:121:TYR:CD2	2.04	1.10
9:c:257:GLN:NE2	4:R:462:PHE:C	2.09	1.10
9:c:638:ALA:HB2	13:a:1128:ARG:CD	1.81	1.10
10:U:1211:PRO:HD3	12:b:57:THR:CB	1.80	1.10
11:M:11:TYR:HE2	15:F:433:GLY:HA3	1.07	1.10
4:R:666:ILE:HG12	3:S:828:VAL:HG22	1.24	1.10
4:R:673:MET:HG3	3:S:835:LEU:HD13	1.11	1.10
3:S:824:VAL:O	2:T:476:LEU:HD13	1.52	1.10
1:H:719:GLU:O	11:Q:10:ARG:NH1	1.82	1.10
4:r:96:PHE:CE1	4:R:512:VAL:CG1	2.34	1.10
5:G:24:TYR:CE2	15:F:735:ARG:CD	2.34	1.10
6:L:1695:LEU:N	9:C:255:LYS:HD2	1.66	1.10
9:c:323:HIS:ND1	4:R:129:LYS:HD3	1.67	1.10
11:O:596:GLU:CA	11:Q:795:PHE:CD1	2.34	1.10
11:O:673:VAL:HG23	11:Q:787:ILE:HD13	1.14	1.10
11:O:784:LYS:HE2	11:Q:647:ASP:C	1.77	1.10
12:B:223:ARG:HD2	13:A:920:HIS:CD2	1.42	1.10
3:s:1735:ILE:HD13	4:r:548:CYS:N	1.65	1.09
6:l:169:MET:HE2	10:U:1130:THR:HA	1.16	1.09
7:e:92:GLU:OE1	8:d:121:TYR:CD2	2.05	1.09
9:C:565:ARG:NH1	13:A:1221:ASP:OD2	1.83	1.09
11:O:457:LEU:N	11:Q:699:PRO:HD2	1.56	1.09
11:O:791:LYS:HG2	11:Q:454:ARG:HE	0.99	1.09
11:O:469:SER:OG	11:Q:667:ILE:N	1.83	1.09
11:O:786:THR:CG2	11:Q:578:ALA:CB	1.95	1.09
4:R:489:SER:CB	2:T:377:LEU:HD22	1.79	1.09
4:R:662:LEU:HD22	3:S:825:LYS:HG2	1.28	1.09
1:H:712:ALA:HB1	11:Q:35:LEU:HD21	1.35	1.09
1:h:223:GLN:HA	11:P:548:ALA:HB3	1.20	1.09
4:r:95:LEU:HB3	4:R:519:HIS:CD2	1.86	1.09
5:g:16:ILE:HG22	15:f:303:LYS:CA	1.82	1.09
5:g:168:VAL:CA	15:f:684:PRO:HD2	1.83	1.09
5:G:19:ALA:O	15:F:251:PHE:CE2	2.06	1.09
7:E:314:LYS:CG	9:C:4:LEU:H	1.64	1.09
7:e:148:MET:CE	9:c:476:LEU:HD21	1.80	1.09
11:O:461:PHE:CG	11:Q:705:GLU:N	2.11	1.09
11:O:468:THR:HG23	11:Q:664:GLU:OE2	1.44	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:470:ARG:CG	11:Q:667:ILE:HB	1.81	1.09
11:O:538:ILE:HG21	11:Q:704:GLU:O	0.93	1.09
12:B:219:ARG:NH1	13:A:914:LEU:O	1.84	1.09
4:R:363:PHE:CZ	4:R:551:LEU:HD13	1.87	1.09
4:R:543:PRO:CD	3:S:706:LEU:HB2	1.70	1.09
4:R:592:LEU:HD12	3:S:743:LEU:CD1	1.74	1.09
4:R:662:LEU:CD1	3:S:825:LYS:HG2	1.82	1.09
4:R:666:ILE:HD11	3:S:828:VAL:HG21	1.12	1.09
5:G:16:ILE:HG22	15:F:303:LYS:CA	1.83	1.09
5:G:166:SER:O	15:F:685:HIS:CD2	2.05	1.09
7:E:91:GLY:HA2	8:D:125:SER:HB2	1.33	1.09
7:e:91:GLY:HA2	8:d:127:MET:HG3	1.22	1.09
11:O:551:ARG:HD2	11:Q:766:ASN:HD22	1.07	1.09
4:R:482:LEU:HD21	2:T:370:GLU:HG3	1.31	1.09
4:R:635:HIS:CD2	2:T:450:HIS:O	2.05	1.09
3:S:824:VAL:O	2:T:476:LEU:CD1	2.00	1.09
2:t:358:GLU:HA	4:r:443:PRO:CG	1.81	1.09
3:s:1739:ILE:HA	4:r:552:LEU:HD11	1.19	1.09
6:L:723:GLY:C	13:A:1399:HIS:CD2	2.28	1.09
6:L:1701:MET:N	9:C:254:LEU:HD13	1.65	1.09
7:E:91:GLY:CA	8:D:127:MET:HG3	1.78	1.09
12:B:219:ARG:HH11	13:A:917:GLY:CA	1.65	1.09
13:a:1170:ILE:CD1	15:f:903:TYR:CZ	2.23	1.09
4:R:477:ILE:HG21	2:T:359:GLU:HG2	1.23	1.09
4:R:477:ILE:HD12	2:T:359:GLU:OE2	1.52	1.09
4:R:495:SER:C	2:T:385:ALA:HB2	1.77	1.09
4:R:616:ALA:HB2	2:T:422:LEU:HD21	1.11	1.09
4:R:659:LEU:HD13	2:T:469:LEU:HG	1.11	1.09
3:S:786:GLN:NE2	2:T:435:LEU:HD13	1.56	1.09
2:t:358:GLU:CB	4:r:443:PRO:HG3	1.82	1.08
5:g:166:SER:O	15:f:685:HIS:CD2	2.06	1.08
5:g:275:ILE:CG2	15:f:255:TRP:CZ2	2.37	1.08
5:G:13:GLU:OE2	13:A:1383:ALA:HB2	0.92	1.08
5:G:166:SER:O	15:F:685:HIS:HD2	1.36	1.08
11:O:470:ARG:HD2	11:Q:667:ILE:HG22	1.17	1.08
11:O:649:ALA:HA	11:Q:790:SER:N	1.53	1.08
11:O:791:LYS:CG	11:Q:454:ARG:HE	1.63	1.08
4:R:577:ARG:NH2	2:T:387:ASP:CG	2.10	1.08
4:R:673:MET:CG	3:S:835:LEU:CD2	2.31	1.08
3:S:817:ILE:CG2	2:T:469:LEU:HD12	1.82	1.08
3:s:1735:ILE:CG1	4:r:548:CYS:CB	2.10	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:175:LEU:CD2	4:R:511:ASP:OD1	2.01	1.08
5:g:13:GLU:OE2	13:a:1383:ALA:HB2	0.92	1.08
5:g:285:VAL:HG22	15:f:265:GLY:CA	1.83	1.08
7:E:148:MET:SD	9:C:499:LEU:CD2	2.28	1.08
8:d:365:GLU:CB	9:c:69:ARG:CZ	2.17	1.08
10:U:1307:ARG:NH1	13:a:1002:HIS:NE2	2.00	1.08
11:O:455:LYS:HB3	11:Q:697:CYS:H	1.18	1.08
11:O:780:PRO:HB3	11:Q:656:LEU:HG	1.34	1.08
12:b:155:ASP:OD1	13:a:523:PHE:HE1	1.03	1.08
4:R:446:CYS:HB3	3:S:701:GLU:CG	1.82	1.08
4:R:620:GLN:CB	2:T:425:GLN:NE2	2.14	1.08
4:R:659:LEU:CD2	3:S:821:ASN:CG	2.26	1.08
6:L:655:GLU:OE1	13:A:1247:ARG:O	1.71	1.08
9:c:625:ILE:HD12	11:M:17:ASN:OD1	1.53	1.08
4:R:532:LEU:HD13	2:T:359:GLU:O	1.44	1.08
4:R:662:LEU:HD13	3:S:825:LYS:HG2	1.35	1.08
3:s:1735:ILE:HD13	4:r:549:LEU:N	1.68	1.08
4:r:146:PRO:HA	4:R:509:LEU:O	1.32	1.08
5:G:24:TYR:HD2	15:F:735:ARG:CZ	1.65	1.08
6:l:466:PRO:CG	13:a:1213:LEU:HD22	1.84	1.08
6:l:1245:ALA:HB2	13:a:1274:THR:HB	1.17	1.08
7:E:311:ASP:HA	9:C:392:PHE:HZ	1.09	1.08
8:d:9:PHE:HB3	9:c:70:LYS:CE	1.83	1.08
9:c:619:GLN:HG2	11:M:7:GLU:HA	1.16	1.08
10:U:1359:VAL:CG2	13:a:1027:ASP:C	2.26	1.08
11:O:462:PRO:CG	11:Q:707:GLN:NE2	1.74	1.08
11:O:469:SER:HB2	11:Q:666:ALA:HB3	1.13	1.08
11:O:551:ARG:HD2	11:Q:766:ASN:ND2	1.69	1.08
2:t:358:GLU:CB	4:r:443:PRO:CG	2.32	1.08
4:r:95:LEU:O	4:R:519:HIS:CE1	2.07	1.08
5:g:269:TRP:O	15:f:254:GLY:HA2	1.49	1.08
6:L:778:GLU:HG2	7:E:260:SER:N	1.57	1.08
6:l:613:LEU:HD21	13:a:1250:GLN:O	1.33	1.08
6:l:620:GLN:CD	13:a:1339:TYR:CD1	2.32	1.08
6:l:1246:ALA:HA	13:a:1275:LYS:HB3	1.12	1.08
7:E:47:TRP:CG	9:C:54:MET:HB3	1.89	1.08
10:U:1313:ARG:NH2	13:a:795:GLN:HB3	1.40	1.08
11:O:792:SER:HA	11:Q:588:LEU:CD2	1.81	1.08
12:B:286:ALA:O	13:A:1008:HIS:CG	1.74	1.08
12:b:219:ARG:NH1	13:a:914:LEU:O	1.85	1.08
4:R:439:LEU:HB2	2:T:359:GLU:HG3	1.35	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:627:LEU:HD11	2:T:432:LEU:CD1	1.83	1.08
4:R:635:HIS:NE2	2:T:451:ALA:O	1.87	1.08
1:h:367:ALA:HB1	15:f:471:GLN:NE2	1.69	1.07
2:t:363:LYS:HD3	3:s:1740:ARG:CZ	1.83	1.07
4:r:147:ILE:CG1	4:R:510:ALA:C	1.96	1.07
5:G:285:VAL:HG22	15:F:265:GLY:CA	1.82	1.07
6:L:613:LEU:HD22	13:A:1247:ARG:HG2	1.09	1.07
7:e:282:TRP:CD1	9:c:39:TYR:CD2	2.42	1.07
11:O:482:LEU:HD13	11:Q:794:ARG:HH11	1.14	1.07
11:O:651:ILE:H	11:Q:789:PRO:HB3	1.16	1.07
12:B:157:LYS:HD2	13:A:524:ARG:HD2	1.24	1.07
4:R:670:ASN:HD21	2:T:479:VAL:HG21	0.97	1.07
2:t:358:GLU:CG	4:r:443:PRO:HG3	1.84	1.07
6:L:1248:GLY:C	13:A:1277:SER:O	1.96	1.07
7:E:11:HIS:C	9:C:38:LEU:HD12	1.80	1.07
7:E:309:TYR:CD2	9:C:390:LEU:CD2	2.37	1.07
9:c:256:TRP:HB3	4:R:461:LEU:HB3	1.33	1.07
9:c:257:GLN:NE2	4:R:464:GLY:H	1.28	1.07
11:O:427:LEU:HD13	11:Q:698:LEU:O	1.54	1.07
11:O:455:LYS:O	11:Q:698:LEU:N	1.85	1.07
11:O:466:GLN:HB2	11:Q:692:GLU:HB2	1.15	1.07
11:O:776:LYS:HB3	11:Q:780:PRO:HB3	1.31	1.07
12:B:196:THR:CG2	13:A:634:HIS:CD2	2.37	1.07
12:b:219:ARG:HH11	13:a:917:GLY:CA	1.65	1.07
13:a:1172:ILE:HD12	15:f:900:PRO:C	1.79	1.07
4:R:363:PHE:CE1	4:R:551:LEU:CG	2.34	1.07
6:l:617:GLU:CD	13:a:1250:GLN:CG	2.26	1.07
7:E:13:ASP:H	9:C:38:LEU:HD12	1.18	1.07
7:E:148:MET:HG2	9:C:499:LEU:HD22	1.36	1.07
8:D:189:VAL:HG12	9:C:519:LEU:HD12	1.35	1.07
9:c:250:THR:HB	4:R:459:SER:O	1.52	1.07
10:U:1359:VAL:HG13	13:a:1028:CYS:SG	1.95	1.07
11:O:437:LEU:HD22	11:Q:699:PRO:CB	1.84	1.07
11:O:469:SER:H	11:Q:667:ILE:CD1	1.68	1.07
4:R:447:ARG:NH2	3:S:706:LEU:CD1	2.18	1.07
4:R:592:LEU:HD11	3:S:743:LEU:HD11	1.30	1.07
5:G:166:SER:C	15:F:685:HIS:HD2	1.62	1.07
8:D:13:LYS:HE3	9:C:413:SER:HB2	1.17	1.07
9:c:517:LEU:HD22	9:c:540:ARG:NH2	1.67	1.07
10:U:1388:SER:C	13:a:1148:ARG:NH1	1.86	1.07
11:O:785:LEU:HD12	11:Q:651:ILE:HG22	1.33	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:B:223:ARG:NH2	13:A:976:GLN:NE2	2.01	1.07
4:R:496:GLN:H	2:T:385:ALA:HA	1.11	1.07
4:R:606:ALA:CA	2:T:411:GLN:NE2	2.18	1.07
1:H:489:ALA:CA	15:f:790:LYS:HA	1.84	1.07
2:t:358:GLU:OE1	4:r:441:THR:O	1.71	1.07
5:G:275:ILE:CG2	15:F:255:TRP:CZ2	2.38	1.07
7:e:7:ILE:N	9:c:54:MET:N	2.01	1.07
7:e:18:VAL:CG2	9:c:35:TYR:CE1	2.38	1.07
11:O:12:VAL:C	15:f:584:SER:CB	2.26	1.07
11:O:460:ILE:HB	11:Q:703:GLN:H	1.12	1.07
11:O:461:PHE:CB	11:Q:702:GLU:O	2.02	1.07
11:O:605:TRP:N	11:Q:791:LYS:HE3	1.35	1.07
11:O:787:ILE:CD1	11:Q:583:LYS:HG2	1.84	1.07
11:M:35:LEU:CG	15:F:436:ARG:HE	1.67	1.07
4:R:534:LEU:CA	2:T:358:LEU:H	1.64	1.07
4:R:670:ASN:ND2	2:T:479:VAL:HG21	1.69	1.07
2:t:366:LEU:CG	4:r:532:LEU:HD12	1.85	1.06
5:g:287:LEU:CD2	15:f:261:LEU:CD2	2.32	1.06
5:G:287:LEU:CD2	15:F:261:LEU:HD22	1.85	1.06
6:L:466:PRO:HG2	13:A:1196:PRO:C	1.46	1.06
6:L:1248:GLY:HA2	13:A:1260:TRP:CH2	1.83	1.06
6:L:1703:LEU:HD22	9:C:251:GLU:CG	1.84	1.06
7:E:231:LEU:HD21	9:C:435:LEU:HD22	1.13	1.06
9:C:645:ILE:CD1	13:A:1122:ALA:CB	2.17	1.06
11:O:461:PHE:CD2	11:Q:703:GLN:N	2.23	1.06
11:O:467:GLU:N	11:Q:689:LYS:CG	2.18	1.06
11:O:481:LEU:HD21	11:Q:693:ILE:HG21	1.31	1.06
11:O:595:LYS:NZ	11:Q:591:PHE:HE2	1.43	1.06
11:O:776:LYS:CB	11:Q:780:PRO:CB	1.78	1.06
11:O:781:SER:CB	11:Q:777:HIS:ND1	2.16	1.06
11:O:788:SER:CA	11:Q:580:GLY:O	2.03	1.06
11:M:11:TYR:CE2	15:F:433:GLY:HA3	1.89	1.06
12:b:196:THR:CG2	13:a:634:HIS:CD2	2.37	1.06
4:R:588:GLN:NE2	2:T:390:LEU:CD2	2.17	1.06
2:t:382:VAL:HA	3:s:1758:SER:HA	1.36	1.06
4:r:153:THR:HG21	4:R:518:GLU:HB3	1.13	1.06
5:G:287:LEU:CD2	15:F:261:LEU:CD2	2.32	1.06
7:E:2:PHE:CB	9:C:11:THR:CB	2.32	1.06
7:e:4:ALA:CA	9:c:13:ILE:HD12	1.85	1.06
11:O:481:LEU:CA	11:Q:705:GLU:OE2	2.02	1.06
11:O:652:ALA:HB1	11:Q:791:LYS:N	1.69	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:788:SER:CB	11:Q:581:LEU:CD2	2.01	1.06
4:R:559:PHE:CE2	3:S:716:PHE:HB2	1.91	1.06
4:R:616:ALA:HB2	2:T:422:LEU:CD2	1.72	1.06
4:R:659:LEU:HD13	2:T:469:LEU:CG	1.67	1.06
3:S:817:ILE:HG23	2:T:469:LEU:CD1	1.84	1.06
1:H:367:ALA:HB3	15:F:471:GLN:HE22	1.19	1.06
1:H:554:GLN:HE22	11:N:544:PRO:HG3	1.15	1.06
4:r:119:MET:HG2	4:R:509:LEU:CA	1.64	1.06
7:e:309:TYR:CB	9:c:390:LEU:CD2	2.21	1.06
8:d:40:ASN:HA	9:c:412:HIS:CE1	1.88	1.06
10:U:1386:ARG:HG2	13:a:1151:ALA:C	1.80	1.06
11:O:463:ARG:HB3	11:Q:710:LEU:HB2	1.31	1.06
11:O:470:ARG:HH12	11:Q:671:GLU:CB	1.66	1.06
12:b:175:PRO:HD2	13:a:921:LYS:HZ1	0.95	1.06
4:R:662:LEU:HD21	3:S:825:LYS:HA	1.36	1.06
6:L:1249:GLN:HB3	13:A:1275:LYS:CA	1.84	1.06
6:l:613:LEU:CD2	13:a:1250:GLN:HB3	1.84	1.06
7:E:39:TRP:CH2	9:C:51:CYS:O	2.09	1.06
7:e:4:ALA:CB	9:c:13:ILE:HD12	1.70	1.06
7:e:91:GLY:HA2	8:d:125:SER:HB2	1.33	1.06
9:C:596:TYR:CD1	13:A:1121:LEU:CD1	2.30	1.06
11:O:463:ARG:CG	11:Q:710:LEU:HB2	1.85	1.06
11:O:596:GLU:CG	11:Q:795:PHE:CD1	2.39	1.06
11:O:780:PRO:HG2	11:Q:656:LEU:O	1.26	1.06
4:R:482:LEU:CD2	2:T:370:GLU:OE1	1.88	1.06
4:r:145:ILE:CD1	4:R:505:LEU:O	0.76	1.06
4:r:145:ILE:HG12	4:R:505:LEU:HB3	1.09	1.06
5:G:285:VAL:CG2	15:F:263:HIS:ND1	2.18	1.06
7:E:29:THR:CG2	9:C:35:TYR:CE2	2.37	1.06
7:e:18:VAL:HG21	9:c:35:TYR:CD1	1.91	1.06
7:e:20:PHE:HZ	9:c:33:LEU:HB2	1.21	1.06
7:e:148:MET:HE1	9:c:476:LEU:HD21	1.36	1.06
8:d:39:ASP:O	9:c:412:HIS:NE2	1.87	1.06
9:c:257:GLN:HG3	4:R:461:LEU:C	1.80	1.06
11:O:11:TYR:C	15:f:585:LEU:C	2.21	1.06
11:O:463:ARG:HB2	11:Q:707:GLN:O	1.49	1.06
5:g:19:ALA:O	15:f:251:PHE:CE2	2.09	1.05
7:E:148:MET:CG	9:C:499:LEU:CD1	2.33	1.05
2:t:358:GLU:CG	4:r:443:PRO:CD	2.34	1.05
4:r:96:PHE:CE1	4:R:512:VAL:CG2	2.39	1.05
5:g:166:SER:O	15:f:685:HIS:HD2	1.37	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:1696:ASN:HB3	9:C:257:GLN:H	0.89	1.05
7:e:14:LEU:HD21	9:c:38:LEU:HD12	1.39	1.05
7:e:148:MET:HE3	9:c:503:ARG:HH21	1.21	1.05
9:c:599:MET:HE1	13:a:1121:LEU:HD12	1.28	1.05
9:c:620:LYS:O	11:M:13:GLU:HB2	1.54	1.05
11:O:462:PRO:HG2	11:Q:707:GLN:CD	1.81	1.05
11:O:596:GLU:HG3	11:Q:795:PHE:CD1	1.92	1.05
11:O:662:LYS:HE2	11:Q:595:LYS:HE2	1.36	1.05
11:O:788:SER:HA	11:Q:580:GLY:O	1.45	1.05
4:R:635:HIS:HD2	2:T:450:HIS:O	1.37	1.05
4:R:666:ILE:HD11	3:S:828:VAL:CG2	1.65	1.05
1:H:491:ASP:HA	15:f:791:HIS:O	1.55	1.05
1:h:317:ASP:CB	15:f:463:HIS:CD2	1.99	1.05
4:r:119:MET:HG3	4:R:509:LEU:C	1.81	1.05
5:g:285:VAL:CG2	15:f:263:HIS:ND1	2.19	1.05
6:L:655:GLU:HG3	13:A:1250:GLN:N	1.55	1.05
7:E:47:TRP:CB	9:C:54:MET:CB	2.34	1.05
9:C:645:ILE:CD1	13:A:1122:ALA:HA	1.73	1.05
11:O:656:LEU:HD12	11:Q:793:ALA:HB1	1.10	1.05
4:R:541:SER:OG	3:S:699:THR:CA	2.01	1.05
1:H:716:SER:HB2	11:Q:3:ARG:HD3	1.05	1.05
6:l:172:ARG:HB3	10:U:1127:THR:OG1	0.88	1.05
7:E:29:THR:CG2	9:C:35:TYR:CD2	2.39	1.05
7:e:43:GLU:HB3	8:d:41:GLU:O	1.57	1.05
10:U:1313:ARG:CD	13:a:796:HIS:C	2.30	1.05
11:O:463:ARG:HH21	11:Q:752:LEU:CA	1.68	1.05
11:O:776:LYS:CA	11:Q:780:PRO:HB2	1.87	1.05
12:b:223:ARG:NH2	13:a:976:GLN:NE2	2.01	1.05
4:R:543:PRO:HD3	3:S:706:LEU:HB2	1.09	1.05
4:R:592:LEU:CD1	3:S:743:LEU:HD11	1.80	1.05
3:S:831:VAL:CG2	2:T:480:ILE:HG12	1.86	1.05
3:s:1739:ILE:HG13	4:r:552:LEU:HD13	1.38	1.05
5:G:24:TYR:CD2	15:F:735:ARG:CZ	2.39	1.05
7:E:231:LEU:CD2	9:C:435:LEU:CD2	2.30	1.05
7:e:27:MET:HE1	9:c:54:MET:HE3	1.09	1.05
9:c:621:GLN:N	11:M:10:ARG:O	1.89	1.05
11:O:456:TRP:N	11:Q:697:CYS:O	1.89	1.05
11:O:531:TRP:CZ2	11:Q:701:GLU:N	2.18	1.05
13:A:1172:ILE:HD12	15:F:900:PRO:C	1.81	1.05
4:R:477:ILE:HD13	2:T:359:GLU:HB3	1.05	1.05
4:R:487:PRO:HG2	2:T:373:GLU:CD	1.82	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:534:LEU:HA	2:T:358:LEU:N	1.63	1.05
4:R:662:LEU:CD2	3:S:825:LYS:HG2	1.77	1.05
3:S:744:ARG:NH2	2:T:389:THR:CG2	1.88	1.05
2:t:357:LEU:HD12	4:r:543:PRO:HB3	1.13	1.04
7:E:11:HIS:O	9:C:38:LEU:CD1	2.05	1.04
7:E:274:PHE:HE1	9:C:3:GLU:OE2	1.38	1.04
9:c:385:PHE:CE1	9:c:396:MET:HE1	1.91	1.04
9:c:641:LEU:HD21	13:a:1121:LEU:CA	1.86	1.04
11:O:463:ARG:H	11:Q:707:GLN:N	1.30	1.04
11:O:484:LEU:HD13	11:Q:701:GLU:O	1.54	1.04
11:O:772:THR:HA	11:Q:784:LYS:HG2	1.38	1.04
4:R:496:GLN:H	2:T:385:ALA:CA	1.69	1.04
4:R:543:PRO:CG	3:S:702:SER:O	2.06	1.04
6:l:1471:SER:C	8:d:302:ARG:NH2	2.15	1.04
8:D:122:HIS:CE1	9:C:480:ARG:CD	2.27	1.04
9:c:256:TRP:HB2	4:R:461:LEU:HD13	1.33	1.04
9:c:573:LEU:HD22	9:c:605:ARG:HH22	0.94	1.04
11:O:459:GLN:O	11:Q:703:GLN:CD	1.99	1.04
11:M:89:LEU:O	15:F:584:SER:HB3	1.56	1.04
4:R:493:LEU:H	2:T:380:ALA:C	1.61	1.04
4:R:541:SER:CB	3:S:699:THR:HB	1.87	1.04
4:R:596:ARG:NH2	3:S:746:GLU:OE2	1.89	1.04
5:g:287:LEU:CD2	15:f:261:LEU:HD22	1.85	1.04
5:G:24:TYR:CD2	15:F:735:ARG:CD	2.41	1.04
6:L:613:LEU:CB	13:A:1247:ARG:CZ	2.36	1.04
8:d:11:SER:HB3	9:c:66:PRO:HA	1.34	1.04
10:U:1211:PRO:CD	12:b:57:THR:CB	2.35	1.04
4:R:490:PRO:HB2	2:T:378:GLN:N	1.30	1.04
4:R:501:SER:OG	2:T:392:GLN:NE2	1.91	1.04
1:H:719:GLU:HB2	11:Q:7:GLU:HA	1.39	1.04
4:r:145:ILE:HD12	4:R:505:LEU:O	1.54	1.04
6:L:696:GLU:CD	8:d:321:LEU:HD12	1.83	1.04
6:l:617:GLU:CD	13:a:1250:GLN:HE21	1.64	1.04
9:C:641:LEU:HD22	13:A:1121:LEU:CD1	1.87	1.04
9:c:638:ALA:HB2	13:a:1128:ARG:HD3	1.33	1.04
10:U:1211:PRO:CB	12:b:56:SER:OG	0.74	1.04
11:O:594:GLN:O	11:Q:794:ARG:HA	1.52	1.04
12:B:287:HIS:ND1	13:A:1008:HIS:CD2	2.26	1.04
4:R:438:ILE:O	2:T:362:ILE:CG2	2.03	1.04
3:S:716:PHE:CD1	2:T:365:TRP:CE2	2.43	1.04
1:H:158:PRO:HB2	11:N:475:ILE:HD11	1.11	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:321:ARG:CD	15:f:461:GLY:HA3	1.87	1.04
5:G:287:LEU:HD21	15:F:261:LEU:HD22	1.37	1.04
6:L:1247:ILE:CB	13:A:1278:SER:O	1.97	1.04
6:L:1249:GLN:HB3	13:A:1275:LYS:HA	1.38	1.04
6:l:618:HIS:HA	13:a:1312:HIS:CA	1.86	1.04
7:E:12:LYS:C	9:C:38:LEU:CD1	2.17	1.04
7:E:13:ASP:N	9:C:38:LEU:HD12	1.70	1.04
7:e:298:ASP:HA	9:c:22:HIS:CD2	1.92	1.04
9:c:621:GLN:N	11:M:10:ARG:C	2.16	1.04
10:U:1211:PRO:HD2	12:b:57:THR:HG23	1.07	1.04
11:O:460:ILE:CG1	11:Q:700:ALA:CA	2.21	1.04
11:O:596:GLU:N	11:Q:795:PHE:CG	2.25	1.04
4:R:659:LEU:CD1	2:T:469:LEU:HG	1.73	1.04
2:t:360:LEU:CD1	3:s:1736:LEU:C	2.20	1.03
2:t:362:ASN:CA	4:r:533:LEU:HB2	1.86	1.03
5:g:24:TYR:CD2	15:f:735:ARG:CD	2.42	1.03
7:E:14:LEU:HD22	9:C:22:HIS:CD2	1.93	1.03
7:e:91:GLY:CA	8:d:125:SER:HB2	1.88	1.03
9:C:611:GLU:OE1	13:A:1294:TYR:CD1	2.10	1.03
9:c:531:ASP:OD2	13:a:1271:VAL:O	1.76	1.03
4:R:496:GLN:HG3	2:T:385:ALA:CB	1.88	1.03
2:t:360:LEU:CD1	3:s:1736:LEU:O	2.06	1.03
5:g:14:ASP:HB2	13:a:1382:SER:N	1.73	1.03
6:L:1244:MET:CG	13:A:1285:ARG:HG3	1.86	1.03
6:l:173:PHE:HB2	10:U:1127:THR:O	0.86	1.03
7:E:148:MET:CG	9:C:499:LEU:HD11	1.86	1.03
7:e:148:MET:HG3	9:c:499:LEU:HD11	1.06	1.03
9:C:596:TYR:CE2	13:A:1121:LEU:HD22	1.92	1.03
9:C:645:ILE:CD1	13:A:1122:ALA:N	2.22	1.03
9:c:573:LEU:HD22	9:c:605:ARG:NH2	1.72	1.03
10:U:1363:SER:HB3	13:a:997:THR:HG22	1.40	1.03
11:O:455:LYS:C	11:Q:698:LEU:HD23	1.83	1.03
11:O:460:ILE:CB	11:Q:703:GLN:HB3	1.54	1.03
11:M:91:PRO:HB2	15:F:586:GLY:CA	1.87	1.03
4:r:143:ARG:NH2	4:R:503:GLU:O	1.91	1.03
6:l:1245:ALA:HB1	13:a:1275:LYS:H	1.14	1.03
7:E:20:PHE:CE2	9:C:26:SER:C	2.27	1.03
7:E:43:GLU:HB3	8:D:41:GLU:O	1.57	1.03
9:c:611:GLU:OE2	13:a:1293:LYS:HB3	1.58	1.03
11:O:781:SER:HA	11:Q:657:ASP:CG	1.74	1.03
11:O:785:LEU:HB3	11:Q:582:HIS:NE2	1.37	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:503:GLU:OE1	2:T:392:GLN:HA	1.58	1.03
4:R:630:ILE:CG2	2:T:436:GLU:HG2	1.71	1.03
5:g:166:SER:C	15:f:685:HIS:HD2	1.65	1.03
6:L:788:GLN:HG2	13:A:1403:ILE:H	1.18	1.03
6:l:617:GLU:CD	13:a:1250:GLN:HG3	1.84	1.03
6:l:1245:ALA:HA	13:a:1274:THR:O	1.56	1.03
7:E:231:LEU:CG	9:C:435:LEU:HD22	1.88	1.03
10:U:1307:ARG:HH21	13:a:1001:LYS:CD	1.57	1.03
11:O:455:LYS:CG	11:Q:695:ASN:CB	2.36	1.03
11:O:464:VAL:HG11	11:Q:705:GLU:HB3	1.05	1.03
4:R:577:ARG:NH2	2:T:387:ASP:CB	2.22	1.03
1:h:316:PRO:CD	15:f:464:ARG:HG2	1.89	1.03
5:G:14:ASP:HB2	13:A:1382:SER:N	1.73	1.03
6:L:673:VAL:HG13	13:A:1397:ASN:CG	1.84	1.03
7:E:91:GLY:CA	8:D:125:SER:HB2	1.88	1.03
7:E:317:GLY:C	9:C:8:PRO:CB	2.30	1.03
7:e:321:GLY:HA2	9:c:13:ILE:HB	1.40	1.03
7:e:322:ASP:CB	9:c:15:GLY:H	1.72	1.03
9:c:416:GLN:CD	9:c:450:LYS:NZ	2.15	1.03
11:O:470:ARG:CB	11:Q:668:ILE:HG13	1.88	1.03
4:R:544:PRO:HG2	3:S:701:GLU:HG3	1.33	1.03
3:S:736:SER:O	3:S:737:GLU:N	1.91	1.03
5:g:285:VAL:CG2	15:f:263:HIS:CE1	2.42	1.02
6:L:659:SER:CA	13:A:1313:GLY:HA3	1.89	1.02
6:L:673:VAL:HG11	13:A:1397:ASN:CG	1.84	1.02
6:L:1693:ILE:O	9:C:255:LYS:NZ	1.92	1.02
7:E:231:LEU:HD21	9:C:435:LEU:HD23	1.36	1.02
8:D:9:PHE:HB3	9:C:70:LYS:HE2	1.05	1.02
1:H:321:ARG:HD3	15:F:461:GLY:HA3	1.02	1.02
2:t:378:GLN:HB3	3:s:1754:LYS:CG	1.79	1.02
3:s:1735:ILE:CG2	4:r:548:CYS:HB3	1.87	1.02
5:G:2:VAL:CG2	15:F:309:LEU:HD11	1.71	1.02
6:l:481:HIS:CD2	13:a:1199:ALA:O	2.12	1.02
8:d:13:LYS:HE3	9:c:413:SER:HB2	1.05	1.02
11:O:470:ARG:CG	11:Q:668:ILE:HG13	1.89	1.02
11:O:470:ARG:HD3	11:Q:668:ILE:CG1	1.89	1.02
11:O:787:ILE:HG13	11:Q:582:HIS:HD2	1.24	1.02
11:O:787:ILE:HD13	11:Q:583:LYS:HG2	1.03	1.02
12:b:219:ARG:HH11	13:a:917:GLY:HA2	0.98	1.02
4:R:477:ILE:CD1	2:T:359:GLU:OE2	2.06	1.02
4:R:599:ARG:NH1	3:S:753:PHE:CD2	2.27	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:626:ARG:NH2	2:T:433:THR:OG1	1.90	1.02
3:S:786:GLN:NE2	2:T:435:LEU:HD11	1.72	1.02
1:H:471:ARG:CD	15:f:896:ARG:CZ	2.36	1.02
2:t:357:LEU:CG	4:r:543:PRO:CB	2.25	1.02
2:t:358:GLU:CG	4:r:443:PRO:CG	2.36	1.02
5:G:285:VAL:HG22	15:F:265:GLY:HA3	1.37	1.02
6:L:723:GLY:HA2	13:A:1399:HIS:HE2	1.22	1.02
7:E:47:TRP:HB2	9:C:54:MET:HB3	1.40	1.02
7:E:148:MET:CE	9:C:503:ARG:HH21	1.61	1.02
8:D:127:MET:HE1	9:C:477:CYS:O	1.58	1.02
8:d:39:ASP:O	9:c:412:HIS:CD2	0.68	1.02
8:d:39:ASP:OD2	9:c:412:HIS:O	1.77	1.02
8:d:169:SER:O	9:c:516:ASP:OD2	1.75	1.02
9:c:573:LEU:CD2	9:c:605:ARG:HH22	1.73	1.02
11:O:13:GLU:N	15:f:584:SER:HB2	1.69	1.02
11:O:455:LYS:HA	11:Q:695:ASN:HB2	1.37	1.02
3:S:768:PHE:CD2	2:T:414:LEU:HD11	1.94	1.02
8:D:9:PHE:HB3	9:C:70:LYS:CE	1.89	1.02
11:O:461:PHE:HB2	11:Q:702:GLU:C	1.80	1.02
11:O:657:ASP:O	11:Q:592:TYR:OH	1.76	1.02
12:B:223:ARG:CD	13:A:920:HIS:CD2	2.32	1.02
12:b:287:HIS:ND1	13:a:1008:HIS:CD2	2.26	1.02
1:H:367:ALA:CB	15:F:471:GLN:NE2	1.88	1.02
4:r:109:HIS:CD2	4:R:507:HIS:HB2	1.94	1.02
5:G:26:ILE:HD11	15:F:735:ARG:NH2	1.72	1.02
6:L:613:LEU:CD1	13:A:1247:ARG:CG	2.38	1.02
6:L:777:PRO:HB3	7:E:258:SER:N	1.71	1.02
6:L:811:PRO:HD2	8:d:27:LEU:HD11	1.41	1.02
7:E:13:ASP:OD1	9:C:40:GLN:C	2.03	1.02
7:E:148:MET:CE	9:C:503:ARG:CZ	2.37	1.02
8:D:39:ASP:OD2	9:C:412:HIS:O	1.77	1.02
9:c:113:MET:HE1	9:c:141:GLU:OE2	1.60	1.02
9:c:596:TYR:CE1	13:a:1121:LEU:HD13	1.85	1.02
11:O:461:PHE:HB3	11:Q:705:GLU:N	1.73	1.02
11:O:596:GLU:CG	11:Q:795:PHE:HE1	1.57	1.02
12:B:155:ASP:OD1	13:A:523:PHE:HE1	1.03	1.02
4:R:581:LEU:CD1	2:T:383:VAL:HG13	1.89	1.02
1:h:226:LEU:O	11:P:549:LYS:CD	2.09	1.01
5:G:275:ILE:CG2	15:F:255:TRP:HZ2	1.73	1.01
6:L:1694:GLY:N	9:C:247:GLN:OE1	1.92	1.01
7:e:321:GLY:HA2	9:c:16:LEU:HB3	1.38	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:318:LYS:HB3	4:R:131:SER:HB2	1.35	1.01
9:c:619:GLN:HB2	11:M:6:ALA:C	1.81	1.01
11:O:652:ALA:HB3	11:Q:791:LYS:H	1.21	1.01
11:O:785:LEU:HA	11:Q:582:HIS:ND1	1.74	1.01
4:R:532:LEU:CB	2:T:362:ILE:H	1.72	1.01
1:H:159:SER:OG	11:N:475:ILE:CG2	2.08	1.01
2:t:361:ILE:C	4:r:533:LEU:CG	2.27	1.01
5:g:270:SER:CA	15:f:255:TRP:H	1.74	1.01
5:G:24:TYR:CD2	15:F:735:ARG:HD2	1.94	1.01
6:L:777:PRO:C	7:E:258:SER:CA	2.33	1.01
6:L:1245:ALA:HB1	13:A:1274:THR:OG1	1.58	1.01
6:l:785:VAL:CG1	7:e:258:SER:HB3	1.89	1.01
7:e:27:MET:HE3	9:c:54:MET:HE1	1.03	1.01
11:O:462:PRO:HG3	11:Q:707:GLN:HE21	1.17	1.01
11:O:781:SER:HB2	11:Q:777:HIS:HB3	1.39	1.01
1:H:289:TRP:CZ3	15:F:464:ARG:NH2	2.28	1.01
1:H:496:LEU:CD1	15:f:791:HIS:CD2	2.43	1.01
3:s:1739:ILE:CG1	4:r:552:LEU:CB	2.38	1.01
4:r:96:PHE:HE1	4:R:512:VAL:CA	1.73	1.01
6:L:1696:ASN:CB	9:C:257:GLN:H	1.72	1.01
7:E:309:TYR:CD2	9:C:390:LEU:HD22	1.94	1.01
9:C:596:TYR:CE1	13:A:1121:LEU:HD12	1.96	1.01
9:C:641:LEU:CD2	13:A:1121:LEU:CD1	2.38	1.01
11:O:784:LYS:HG2	11:Q:651:ILE:N	1.75	1.01
4:R:613:PHE:HE2	3:S:768:PHE:HA	1.24	1.01
1:H:716:SER:CB	11:Q:3:ARG:CD	2.36	1.01
2:t:362:ASN:CA	4:r:533:LEU:H	1.74	1.01
2:t:366:LEU:CD2	4:r:532:LEU:HD12	1.90	1.01
4:r:122:GLU:CA	4:R:506:PRO:HB3	1.90	1.01
5:g:24:TYR:CD2	15:f:735:ARG:CZ	2.38	1.01
6:L:1249:GLN:OE1	13:A:1276:GLU:N	1.87	1.01
7:e:5:ARG:N	9:c:55:TYR:HB3	1.76	1.01
8:D:124:GLY:HA3	9:C:479:ARG:NH1	1.76	1.01
8:D:259:ALA:CB	9:C:453:ARG:NH1	2.23	1.01
8:d:12:HIS:N	9:c:69:ARG:NH2	1.89	1.01
9:c:624:SER:HB3	11:M:14:ASN:CB	1.89	1.01
11:O:458:LYS:HE3	11:Q:692:GLU:O	1.60	1.01
4:R:496:GLN:N	2:T:385:ALA:HB2	1.74	1.01
1:H:722:ALA:HA	11:Q:10:ARG:CZ	1.89	1.01
5:g:285:VAL:HG22	15:f:265:GLY:HA3	1.39	1.01
6:L:659:SER:HA	13:A:1313:GLY:HA3	1.37	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:18:VAL:CG2	9:C:24:GLY:HA3	1.91	1.01
7:E:69:GLU:OE1	9:C:469:LYS:CD	2.08	1.01
11:O:461:PHE:CB	11:Q:705:GLU:N	2.23	1.01
11:O:785:LEU:HD12	11:Q:651:ILE:HG21	1.43	1.01
11:O:786:THR:CA	11:Q:578:ALA:O	2.08	1.01
4:R:627:LEU:HD11	2:T:432:LEU:HD11	1.36	1.01
4:R:635:HIS:NE2	2:T:451:ALA:C	2.05	1.01
1:H:158:PRO:HB2	11:N:475:ILE:HD13	1.04	1.00
2:t:368:LEU:CD2	4:r:530:ASN:HD22	1.73	1.00
4:r:122:GLU:H	4:R:506:PRO:CB	1.74	1.00
4:r:145:ILE:HG12	4:R:505:LEU:C	1.79	1.00
5:g:24:TYR:CD2	15:f:735:ARG:HD2	1.95	1.00
11:O:481:LEU:HD13	11:Q:693:ILE:HG23	1.42	1.00
11:O:783:THR:HG21	11:Q:602:VAL:HG13	1.41	1.00
4:R:659:LEU:HD11	2:T:469:LEU:HD11	1.42	1.00
1:H:716:SER:OG	11:Q:3:ARG:CG	2.09	1.00
1:H:716:SER:CB	11:Q:3:ARG:HG2	1.90	1.00
1:H:722:ALA:CA	11:Q:10:ARG:NH1	2.24	1.00
4:r:122:GLU:H	4:R:506:PRO:HB2	1.25	1.00
5:g:26:ILE:HD11	15:f:735:ARG:NH2	1.73	1.00
5:G:19:ALA:O	15:F:251:PHE:HE2	1.39	1.00
7:E:314:LYS:HD3	9:C:4:LEU:HG	1.42	1.00
10:U:1386:ARG:HA	13:a:1151:ALA:HA	1.39	1.00
11:O:464:VAL:HG22	11:Q:708:GLU:HB3	1.41	1.00
11:O:590:SER:C	11:Q:798:LYS:HG3	1.81	1.00
11:O:593:ASP:OD1	11:Q:692:GLU:HG2	1.58	1.00
11:O:789:PRO:CB	11:Q:584:THR:CA	2.19	1.00
4:R:493:LEU:N	2:T:380:ALA:C	2.13	1.00
4:R:634:PHE:O	2:T:449:GLN:CG	2.08	1.00
4:R:673:MET:CG	3:S:835:LEU:HD13	1.76	1.00
3:S:786:GLN:HE21	2:T:435:LEU:CD1	1.68	1.00
1:H:131:VAL:CG2	11:Q:618:LYS:HZ2	1.74	1.00
1:H:489:ALA:HA	15:f:790:LYS:CA	1.90	1.00
4:r:95:LEU:HB3	4:R:519:HIS:CG	1.97	1.00
4:r:96:PHE:CE1	4:R:512:VAL:CB	2.44	1.00
6:L:787:LEU:HA	13:A:1399:HIS:ND1	1.77	1.00
6:L:788:GLN:HA	13:A:1402:ALA:C	1.72	1.00
6:L:1200:ASP:HB3	13:A:1275:LYS:HZ1	0.85	1.00
6:L:1247:ILE:HG23	13:A:1278:SER:CB	1.88	1.00
6:L:1247:ILE:CB	13:A:1278:SER:OG	2.02	1.00
6:L:1639:GLN:CB	9:C:246:THR:HG21	1.91	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:1699:SER:HB3	9:C:254:LEU:H	1.23	1.00
6:l:1245:ALA:CB	13:a:1275:LYS:N	2.14	1.00
8:D:124:GLY:C	9:C:479:ARG:NH1	2.19	1.00
10:U:1309:PRO:O	13:a:799:VAL:HG21	1.61	1.00
11:O:461:PHE:CB	11:Q:706:PHE:H	1.74	1.00
4:R:491:PRO:HB3	2:T:381:THR:HG21	1.39	1.00
1:H:490:THR:O	15:f:790:LYS:O	1.79	1.00
4:r:144:THR:O	4:R:505:LEU:CG	2.09	1.00
4:r:145:ILE:HG13	4:R:505:LEU:C	1.85	1.00
5:G:168:VAL:HA	15:F:684:PRO:CD	1.91	1.00
4:R:599:ARG:NH1	3:S:753:PHE:CE2	2.29	1.00
1:H:719:GLU:HB3	11:Q:7:GLU:CA	1.86	1.00
4:r:146:PRO:C	4:R:510:ALA:CA	2.30	1.00
4:r:153:THR:HG21	4:R:518:GLU:CB	1.91	1.00
7:e:7:ILE:HB	9:c:54:MET:HB2	1.03	1.00
8:d:146:GLU:CB	9:c:480:ARG:NH1	2.25	1.00
11:O:469:SER:N	11:Q:667:ILE:HD12	1.76	1.00
11:O:596:GLU:HA	11:Q:795:PHE:CD1	1.96	1.00
4:r:110:VAL:H	4:R:508:VAL:HG22	1.26	1.00
5:G:285:VAL:CG2	15:F:263:HIS:CE1	2.44	1.00
4:R:490:PRO:HB3	2:T:374:LYS:O	1.59	1.00
4:R:659:LEU:HD21	3:S:821:ASN:CB	1.91	1.00
5:G:304:LYS:HE3	15:F:266:ASP:HA	1.44	1.00
6:L:778:GLU:HA	7:E:258:SER:O	1.61	1.00
6:L:1699:SER:HB3	9:C:254:LEU:N	1.76	1.00
7:E:314:LYS:CG	9:C:4:LEU:N	2.25	1.00
10:U:1386:ARG:HD3	13:a:1152:SER:HA	1.43	1.00
11:O:15:ALA:HA	15:f:583:ILE:HA	1.44	1.00
11:O:464:VAL:HA	11:Q:709:CYS:H	0.84	1.00
11:M:91:PRO:HB2	15:F:586:GLY:HA2	1.02	1.00
4:R:666:ILE:HG12	3:S:828:VAL:CG1	1.92	1.00
6:L:465:GLU:CD	13:A:1201:ILE:HD12	1.85	0.99
7:E:47:TRP:HD1	9:C:54:MET:O	1.45	0.99
9:c:620:LYS:O	11:M:13:GLU:CD	2.04	0.99
1:h:316:PRO:HD2	15:f:464:ARG:HG2	1.02	0.99
3:s:1728:VAL:CG1	4:r:543:PRO:HA	1.93	0.99
6:L:1694:GLY:C	9:C:247:GLN:HE22	1.70	0.99
6:l:620:GLN:CD	13:a:1339:TYR:CE1	2.38	0.99
6:l:1471:SER:CB	8:d:302:ARG:HH22	1.76	0.99
7:E:14:LEU:HD22	9:C:22:HIS:HD2	1.23	0.99
7:E:311:ASP:OD2	9:C:391:TYR:HB3	1.59	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:d:9:PHE:CZ	9:c:70:LYS:N	2.31	0.99
9:c:641:LEU:CD2	13:a:1121:LEU:O	2.10	0.99
11:O:787:ILE:CG1	11:Q:582:HIS:CD2	2.44	0.99
4:R:477:ILE:CD1	2:T:359:GLU:HB3	1.92	0.99
6:l:617:GLU:HG3	13:a:1250:GLN:HE21	1.25	0.99
11:O:470:ARG:NH1	11:Q:671:GLU:CB	2.21	0.99
11:O:783:THR:OG1	11:Q:602:VAL:CG1	2.09	0.99
4:R:578:VAL:HG21	3:S:732:PHE:CD1	1.96	0.99
2:t:364:TRP:CB	3:s:1743:ILE:CD1	2.40	0.99
2:t:382:VAL:CG2	3:s:1758:SER:CA	2.37	0.99
4:r:96:PHE:HE1	4:R:512:VAL:CG1	1.70	0.99
10:U:1211:PRO:HD3	12:b:57:THR:CG2	1.56	0.99
11:O:16:GLN:N	15:f:584:SER:OG	1.94	0.99
11:O:455:LYS:HA	11:Q:695:ASN:CB	1.92	0.99
11:O:470:ARG:NH1	11:Q:671:GLU:CD	2.20	0.99
11:O:662:LYS:HE2	11:Q:595:LYS:CE	1.91	0.99
6:l:173:PHE:CD2	10:U:1128:MET:HA	1.97	0.99
6:l:465:GLU:HB3	13:a:1216:GLN:CD	1.78	0.99
9:c:372:VAL:HG12	9:c:400:LEU:HD13	1.45	0.99
12:b:221:THR:HG21	13:a:918:GLU:OE2	1.62	0.99
4:R:632:ARG:HA	2:T:453:GLU:HG2	1.43	0.99
1:h:367:ALA:CB	15:f:471:GLN:HE22	1.76	0.99
4:r:120:VAL:H	4:R:510:ALA:N	1.59	0.99
9:c:416:GLN:CD	9:c:450:LYS:HZ1	1.67	0.99
11:O:463:ARG:HB3	11:Q:707:GLN:O	1.59	0.99
11:O:482:LEU:HD22	11:Q:794:ARG:HH12	1.25	0.99
11:O:782:PRO:HB2	11:Q:654:ALA:CA	1.86	0.99
11:M:31:LEU:HD11	15:F:436:ARG:HD2	1.01	0.99
4:R:659:LEU:HD11	2:T:469:LEU:CG	1.58	0.99
5:g:54:ARG:HH22	13:a:1334:ARG:NE	1.61	0.99
5:G:287:LEU:HG	15:F:268:LEU:HD13	1.44	0.99
9:c:621:GLN:NE2	11:M:32:PHE:CE1	2.31	0.99
11:O:578:ALA:HB1	11:Q:790:SER:O	1.61	0.99
2:t:358:GLU:HG3	4:r:443:PRO:HG3	1.42	0.99
5:g:275:ILE:CG2	15:f:255:TRP:HZ2	1.70	0.99
5:G:270:SER:CA	15:F:255:TRP:H	1.74	0.99
6:L:1698:GLY:N	9:C:254:LEU:O	1.73	0.99
9:C:645:ILE:HG21	13:A:1122:ALA:CB	1.93	0.99
9:c:517:LEU:CD2	9:c:540:ARG:CZ	2.40	0.99
11:O:470:ARG:HG3	11:Q:667:ILE:HB	1.00	0.99
11:O:481:LEU:HD22	11:Q:693:ILE:HG21	1.38	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:785:LEU:CA	11:Q:582:HIS:ND1	2.25	0.99
4:R:613:PHE:CB	3:S:768:PHE:CZ	2.46	0.99
3:S:716:PHE:CD1	2:T:365:TRP:CE3	2.48	0.99
2:t:364:TRP:CB	3:s:1743:ILE:HD11	1.92	0.99
5:g:19:ALA:O	15:f:251:PHE:HE2	1.42	0.99
6:L:1695:LEU:HG	9:C:247:GLN:HE21	0.99	0.99
9:c:606:MET:HE1	9:c:634:ARG:HH21	1.23	0.99
10:U:1307:ARG:HH11	13:a:1002:HIS:CE1	1.66	0.99
1:H:160:SER:CB	11:N:475:ILE:HG12	1.92	0.99
6:L:1247:ILE:HG12	13:A:1278:SER:OG	1.60	0.99
7:E:274:PHE:CE1	9:C:3:GLU:OE2	2.13	0.99
11:O:646:GLU:O	11:Q:789:PRO:HD3	1.63	0.99
11:O:781:SER:CA	11:Q:657:ASP:CG	2.23	0.99
4:R:603:THR:OG1	3:S:753:PHE:CZ	2.16	0.99
3:S:716:PHE:HD1	2:T:365:TRP:CE2	1.80	0.99
6:L:465:GLU:CG	13:A:1197:SER:O	2.11	0.98
7:E:294:ALA:HB2	9:C:27:TRP:CZ2	1.97	0.98
4:R:634:PHE:CD2	2:T:439:VAL:CG1	2.23	0.98
3:S:817:ILE:O	2:T:469:LEU:HD13	1.62	0.98
3:s:1739:ILE:CG1	4:r:552:LEU:HB2	1.92	0.98
4:r:145:ILE:HG12	4:R:505:LEU:CA	1.93	0.98
5:G:292:VAL:O	15:F:653:ARG:NE	1.95	0.98
6:L:613:LEU:HD22	13:A:1247:ARG:CG	1.93	0.98
7:E:7:ILE:HG13	9:C:55:TYR:CD2	1.99	0.98
8:D:124:GLY:HA3	9:C:479:ARG:HH11	1.28	0.98
11:O:461:PHE:HD2	11:Q:702:GLU:CA	1.68	0.98
12:B:219:ARG:HH21	13:A:970:LEU:HD11	1.28	0.98
1:H:554:GLN:NE2	11:N:544:PRO:HB3	1.64	0.98
1:h:321:ARG:HD3	15:f:461:GLY:HA3	1.44	0.98
7:E:2:PHE:HB2	9:C:11:THR:HG1	1.22	0.98
4:R:541:SER:HB3	3:S:699:THR:HB	0.99	0.98
4:R:584:GLN:HG2	2:T:390:LEU:HD21	1.43	0.98
1:H:131:VAL:CG2	11:Q:618:LYS:NZ	2.26	0.98
1:H:722:ALA:CA	11:Q:10:ARG:HH12	1.75	0.98
4:r:110:VAL:H	4:R:508:VAL:CG2	1.75	0.98
7:E:39:TRP:HH2	9:C:51:CYS:O	1.42	0.98
11:O:455:LYS:CA	11:Q:695:ASN:HB2	1.92	0.98
3:S:716:PHE:HD1	2:T:365:TRP:CH2	1.67	0.98
2:t:361:ILE:HD12	4:r:443:PRO:HB2	1.45	0.98
9:c:596:TYR:CE1	13:a:1121:LEU:CD1	2.44	0.98
11:O:460:ILE:CB	11:Q:703:GLN:CB	1.86	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:287:LEU:HG	15:f:268:LEU:CD1	1.94	0.98
5:g:287:LEU:HG	15:f:268:LEU:HD13	1.41	0.98
6:L:1247:ILE:CG1	13:A:1278:SER:OG	2.10	0.98
11:O:470:ARG:HG3	11:Q:667:ILE:CA	1.87	0.98
11:O:786:THR:CG2	11:Q:605:TRP:NE1	2.25	0.98
12:B:120:ILE:HG23	13:A:520:GLN:HE22	1.19	0.98
12:B:175:PRO:HD2	13:A:921:LYS:NZ	1.78	0.98
4:R:446:CYS:H	3:S:705:ILE:HD11	1.24	0.98
7:E:148:MET:HG3	9:C:499:LEU:CD2	1.60	0.98
7:E:309:TYR:HB3	9:C:390:LEU:HD13	1.45	0.98
7:e:298:ASP:OD1	9:c:22:HIS:CE1	2.15	0.98
11:M:35:LEU:HD21	15:F:436:ARG:HG2	1.45	0.98
10:U:1307:ARG:HH21	13:a:1001:LYS:NZ	1.61	0.98
11:O:3:ARG:HH21	15:f:568:PRO:HG3	1.26	0.98
6:l:785:VAL:HG12	7:e:258:SER:HB3	1.45	0.98
11:O:780:PRO:HG3	11:Q:656:LEU:O	1.59	0.98
4:R:541:SER:HB3	3:S:699:THR:CA	1.86	0.98
8:d:169:SER:O	9:c:516:ASP:CG	2.07	0.97
8:d:260:GLU:N	9:c:453:ARG:NH2	2.12	0.97
9:c:642:ALA:HB2	13:a:1125:ASN:HB3	1.46	0.97
3:s:1728:VAL:HG11	4:r:544:PRO:HD3	1.46	0.97
4:r:122:GLU:HB2	4:R:506:PRO:CB	1.85	0.97
6:L:1247:ILE:HG21	13:A:1280:THR:C	1.89	0.97
6:L:1248:GLY:CA	13:A:1260:TRP:HH2	1.57	0.97
8:d:146:GLU:HB3	9:c:480:ARG:NH1	1.79	0.97
10:U:1211:PRO:CA	12:b:56:SER:OG	2.11	0.97
11:O:648:GLU:HG2	11:Q:789:PRO:O	1.64	0.97
4:R:534:LEU:HA	2:T:358:LEU:H	0.82	0.97
3:S:817:ILE:HG23	2:T:469:LEU:HD12	0.98	0.97
2:t:375:PHE:CG	3:s:1750:LEU:HD22	1.97	0.97
6:L:1248:GLY:HA3	13:A:1260:TRP:HH2	1.27	0.97
9:c:641:LEU:HD22	13:a:1121:LEU:CD1	1.93	0.97
11:O:457:LEU:C	11:Q:698:LEU:HB3	1.89	0.97
11:M:92:THR:CG2	15:F:585:LEU:O	2.12	0.97
4:R:620:GLN:HB2	2:T:425:GLN:HE22	1.23	0.97
5:G:292:VAL:C	15:F:653:ARG:NH1	2.16	0.97
6:L:788:GLN:HB2	13:A:1398:GLN:O	1.63	0.97
9:C:596:TYR:CD2	13:A:1121:LEU:HD22	1.99	0.97
10:U:1359:VAL:HG22	13:a:1027:ASP:C	1.87	0.97
11:O:457:LEU:CD2	11:Q:702:GLU:H	1.60	0.97
12:b:223:ARG:CD	13:a:920:HIS:CD2	2.32	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:1:MET:CE	2:T:374:LYS:HZ2	1.74	0.97
4:R:616:ALA:HB2	2:T:422:LEU:CG	1.94	0.97
5:g:292:VAL:O	15:f:653:ARG:NH2	1.95	0.97
9:c:320:THR:HB	4:R:130:LYS:H	1.29	0.97
11:O:465:PRO:HA	11:Q:690:ALA:N	1.79	0.97
4:R:559:PHE:CZ	3:S:716:PHE:CB	2.34	0.97
4:R:609:LEU:HD11	2:T:415:ASP:HA	1.40	0.97
7:E:13:ASP:OD1	9:C:40:GLN:O	1.81	0.97
7:E:314:LYS:HD3	9:C:4:LEU:CA	1.95	0.97
9:C:600:ARG:NH2	13:A:1222:THR:CG2	2.18	0.97
11:O:465:PRO:HG3	11:Q:686:TYR:HD1	0.99	0.97
4:R:490:PRO:CB	2:T:378:GLN:N	2.26	0.97
4:R:584:GLN:CD	2:T:390:LEU:HD22	1.88	0.97
1:H:465:GLU:CG	11:N:23:ARG:NH1	1.97	0.97
4:r:143:ARG:O	4:R:506:PRO:CG	2.08	0.97
5:g:2:VAL:CG2	15:f:309:LEU:HD11	1.72	0.97
5:g:293:ASP:C	15:f:653:ARG:NH2	2.21	0.97
5:G:275:ILE:HG21	15:F:255:TRP:HZ2	0.81	0.97
7:E:5:ARG:CB	9:C:55:TYR:CB	2.37	0.97
10:U:1313:ARG:HD2	13:a:798:SER:N	1.78	0.97
11:O:454:ARG:HD3	11:Q:695:ASN:ND2	1.74	0.97
11:O:466:GLN:HB3	11:Q:692:GLU:HB2	1.46	0.97
11:O:652:ALA:HB1	11:Q:791:LYS:H	1.27	0.97
12:B:157:LYS:CD	13:A:524:ARG:HD2	1.94	0.97
12:b:157:LYS:CD	13:a:524:ARG:HD2	1.94	0.97
3:S:786:GLN:NE2	2:T:435:LEU:HD12	1.74	0.97
7:E:32:SER:O	9:C:41:LYS:HD2	0.80	0.97
9:c:320:THR:CB	4:R:130:LYS:N	2.13	0.97
11:O:790:SER:CA	11:Q:454:ARG:CB	2.34	0.97
4:R:447:ARG:NH2	3:S:702:SER:O	1.97	0.97
4:R:635:HIS:CA	2:T:453:GLU:HG3	1.95	0.97
4:R:659:LEU:CG	3:S:821:ASN:ND2	2.28	0.97
3:s:1739:ILE:HG13	4:r:552:LEU:HB2	1.43	0.97
5:G:271:ILE:CG1	15:F:697:ARG:NH2	2.28	0.97
7:E:312:ASN:HB2	9:C:1:MET:CB	1.93	0.97
11:O:786:THR:HB	11:Q:578:ALA:CA	1.94	0.97
4:R:578:VAL:HG21	3:S:732:PHE:HA	1.45	0.97
4:R:585:LYS:HZ1	3:S:739:GLU:CD	1.70	0.97
1:H:234:ILE:HD13	11:N:34:ARG:HH12	0.80	0.97
11:O:461:PHE:HB3	11:Q:706:PHE:N	1.80	0.97
11:O:591:PHE:N	11:Q:798:LYS:HG3	1.79	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:482:LEU:CD2	2:T:370:GLU:CG	2.26	0.97
7:E:11:HIS:C	9:C:38:LEU:CD1	2.37	0.96
9:c:314:HIS:CA	4:R:462:PHE:CE1	2.48	0.96
9:c:619:GLN:CB	11:M:7:GLU:N	2.17	0.96
11:O:1:MET:HB2	15:f:567:GLU:N	1.17	0.96
13:a:1167:SER:OG	15:f:859:ARG:CZ	2.12	0.96
5:G:289:LYS:NZ	15:F:631:TYR:HE2	1.61	0.96
6:L:613:LEU:HB2	13:A:1247:ARG:CZ	1.95	0.96
6:L:655:GLU:HG3	13:A:1250:GLN:H	1.05	0.96
6:L:1703:LEU:HD22	9:C:251:GLU:HG2	1.45	0.96
8:D:279:GLU:CG	9:C:453:ARG:NH1	2.27	0.96
10:U:1313:ARG:HH21	13:a:795:GLN:HB3	0.80	0.96
4:R:552:LEU:HD12	3:S:712:GLU:OE2	1.62	0.96
1:h:321:ARG:HD3	15:f:461:GLY:CA	1.95	0.96
5:g:292:VAL:C	15:f:653:ARG:NH1	2.16	0.96
6:L:466:PRO:O	13:A:1195:ASN:OD1	1.81	0.96
11:O:468:THR:O	11:Q:663:THR:OG1	1.83	0.96
5:G:54:ARG:HH22	13:A:1334:ARG:NE	1.61	0.96
7:E:29:THR:HG21	9:C:35:TYR:CD2	1.99	0.96
11:O:475:ILE:HD13	11:Q:767:HIS:CB	1.95	0.96
4:R:541:SER:OG	3:S:699:THR:O	1.81	0.96
5:g:277:ALA:HB2	15:f:261:LEU:HD11	1.47	0.96
5:g:285:VAL:HG23	15:f:266:ASP:O	1.64	0.96
5:g:292:VAL:O	15:f:653:ARG:NE	1.97	0.96
6:l:618:HIS:HA	13:a:1313:GLY:N	1.79	0.96
8:D:13:LYS:CE	9:C:413:SER:HB2	1.94	0.96
8:D:122:HIS:NE2	9:C:478:ASN:HB3	1.79	0.96
11:O:463:ARG:CA	11:Q:707:GLN:HA	1.96	0.96
11:O:783:THR:CG2	11:Q:602:VAL:HG13	1.96	0.96
4:R:495:SER:OG	2:T:381:THR:CG2	2.14	0.96
5:g:168:VAL:HA	15:f:684:PRO:CD	1.94	0.96
5:g:289:LYS:NZ	15:f:631:TYR:HE2	1.62	0.96
5:G:166:SER:C	15:F:685:HIS:CD2	2.42	0.96
6:L:1695:LEU:H	9:C:247:GLN:NE2	1.45	0.96
7:e:18:VAL:HG23	9:c:35:TYR:CE1	1.99	0.96
8:D:122:HIS:CD2	9:C:478:ASN:HB3	2.00	0.96
10:U:1313:ARG:HD3	13:a:796:HIS:CA	1.94	0.96
11:O:470:ARG:HH22	11:Q:671:GLU:HB2	1.04	0.96
11:O:673:VAL:CG2	11:Q:787:ILE:CD1	2.44	0.96
12:b:175:PRO:HD2	13:a:921:LYS:NZ	1.78	0.96
4:R:635:HIS:HB3	2:T:453:GLU:HB2	1.45	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:554:GLN:HE21	11:N:544:PRO:HA	1.16	0.96
1:h:223:GLN:CA	11:P:548:ALA:CB	2.43	0.96
2:t:366:LEU:HD21	4:r:532:LEU:CD1	1.96	0.96
4:r:145:ILE:CG1	4:R:505:LEU:HB3	1.95	0.96
11:O:649:ALA:HB1	11:Q:788:SER:CB	1.96	0.96
12:b:219:ARG:HH21	13:a:970:LEU:HD11	1.28	0.96
3:S:821:ASN:HB2	2:T:469:LEU:CD2	1.96	0.96
1:H:367:ALA:HB1	15:F:471:GLN:CD	1.90	0.96
7:E:92:GLU:OE1	8:D:121:TYR:HB2	1.64	0.96
7:e:92:GLU:OE1	8:d:121:TYR:HB2	1.64	0.96
7:e:300:GLY:C	9:c:23:ILE:HD12	1.91	0.96
11:O:461:PHE:CE2	11:Q:700:ALA:O	2.19	0.96
11:O:662:LYS:NZ	11:Q:595:LYS:NZ	2.06	0.96
11:O:787:ILE:HG13	11:Q:582:HIS:CG	1.99	0.96
11:O:787:ILE:HB	11:Q:579:ARG:O	1.66	0.96
12:B:219:ARG:HD2	13:A:917:GLY:O	1.66	0.96
13:a:178:ILE:HG21	13:a:183:ILE:HD11	1.47	0.96
6:l:470:THR:OG1	13:a:1194:HIS:HE1	1.49	0.96
8:D:146:GLU:C	9:C:480:ARG:CZ	2.34	0.96
8:D:260:GLU:CB	9:C:453:ARG:HH22	1.79	0.96
10:U:1307:ARG:HH21	13:a:1001:LYS:HE2	1.27	0.96
11:O:458:LYS:HE3	11:Q:692:GLU:C	1.84	0.96
3:s:1728:VAL:CG1	4:r:544:PRO:N	2.29	0.95
6:L:1695:LEU:CB	9:C:247:GLN:HE21	1.78	0.95
11:O:469:SER:CB	11:Q:666:ALA:HB3	1.96	0.95
11:O:789:PRO:HB3	11:Q:584:THR:CA	1.89	0.95
4:R:1:MET:HE2	2:T:374:LYS:HZ2	1.23	0.95
3:S:786:GLN:HE22	2:T:435:LEU:CD1	1.79	0.95
3:S:831:VAL:CG2	2:T:480:ILE:CG1	2.44	0.95
5:G:19:ALA:O	15:F:304:VAL:HG13	1.63	0.95
5:G:287:LEU:HG	15:F:268:LEU:CD1	1.96	0.95
9:C:611:GLU:OE1	13:A:1294:TYR:HE1	1.06	0.95
11:O:673:VAL:HG23	11:Q:787:ILE:CD1	1.95	0.95
11:O:782:PRO:HB3	11:Q:654:ALA:CA	1.84	0.95
4:R:490:PRO:HB2	2:T:378:GLN:H	1.24	0.95
2:t:367:GLU:CB	3:s:1743:ILE:HG21	1.96	0.95
3:s:1735:ILE:CD1	4:r:549:LEU:N	2.29	0.95
5:G:277:ALA:HB2	15:F:261:LEU:HD11	1.47	0.95
7:E:47:TRP:CD1	9:C:54:MET:O	2.18	0.95
11:O:466:GLN:HB2	11:Q:689:LYS:O	1.67	0.95
1:H:465:GLU:CD	11:N:23:ARG:NH1	2.23	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:269:TRP:C	15:f:254:GLY:HA2	1.90	0.95
10:U:1312:SER:C	13:a:799:VAL:HG13	1.58	0.95
4:R:659:LEU:HD21	3:S:821:ASN:CG	1.87	0.95
8:d:40:ASN:CA	9:c:412:HIS:NE2	2.28	0.95
11:O:462:PRO:CD	11:Q:707:GLN:HG2	1.96	0.95
11:O:605:TRP:H	11:Q:791:LYS:CE	1.79	0.95
12:b:219:ARG:HD2	13:a:917:GLY:O	1.66	0.95
4:R:626:ARG:CZ	2:T:433:THR:OG1	2.14	0.95
1:H:712:ALA:HB1	11:Q:35:LEU:CD2	1.95	0.95
2:t:364:TRP:HB3	3:s:1743:ILE:CD1	1.95	0.95
5:g:302:VAL:C	15:f:267:LYS:O	2.10	0.95
4:R:584:GLN:NE2	2:T:390:LEU:CD2	2.30	0.95
5:G:16:ILE:CG2	15:F:303:LYS:CA	2.43	0.95
6:l:613:LEU:HB3	13:a:1250:GLN:CG	1.96	0.95
10:U:1386:ARG:HA	13:a:1151:ALA:CA	1.95	0.95
11:O:14:ASN:CB	15:f:584:SER:HA	1.93	0.95
11:O:437:LEU:HD21	11:Q:699:PRO:HA	1.47	0.95
4:R:532:LEU:HB2	2:T:362:ILE:N	1.80	0.95
4:R:588:GLN:HE22	2:T:390:LEU:CG	1.79	0.95
4:R:656:ASN:HB2	2:T:465:ILE:CD1	1.97	0.95
2:t:366:LEU:HG	4:r:532:LEU:HD12	1.44	0.95
4:r:111:ALA:HB1	4:R:511:ASP:OD2	1.65	0.95
7:E:15:ILE:N	9:C:38:LEU:N	2.10	0.95
9:C:611:GLU:CD	13:A:1294:TYR:CE1	2.43	0.95
9:c:320:THR:CG2	4:R:127:TRP:O	2.14	0.95
12:B:221:THR:HG23	13:A:918:GLU:HB3	1.49	0.95
13:A:1167:SER:OG	15:F:859:ARG:CZ	2.14	0.95
4:R:616:ALA:HB1	2:T:422:LEU:CD2	1.96	0.95
4:R:666:ILE:HD13	2:T:476:LEU:HD21	1.48	0.95
4:R:670:ASN:HD21	2:T:479:VAL:CG2	1.78	0.95
4:r:95:LEU:HB3	4:R:519:HIS:CB	1.97	0.95
5:G:285:VAL:HG23	15:F:266:ASP:N	1.82	0.95
6:l:51:ILE:CG2	10:U:1086:ARG:NH2	2.30	0.95
8:d:11:SER:C	9:c:69:ARG:CZ	2.20	0.95
9:c:314:HIS:HA	4:R:462:PHE:HE1	1.27	0.95
9:c:565:ARG:HD3	13:a:1267:GLN:HA	1.44	0.95
11:O:457:LEU:HD22	11:Q:702:GLU:N	1.71	0.95
11:O:481:LEU:HD22	11:Q:693:ILE:CG2	1.90	0.95
11:O:783:THR:CB	11:Q:602:VAL:CG2	2.30	0.95
5:g:275:ILE:HG21	15:f:255:TRP:HZ2	0.79	0.95
5:g:275:ILE:HB	15:f:255:TRP:CE2	2.02	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:613:LEU:HD22	13:a:1250:GLN:CB	1.96	0.95
11:O:457:LEU:N	11:Q:699:PRO:CD	2.29	0.95
11:O:463:ARG:H	11:Q:707:GLN:CA	1.80	0.95
11:O:788:SER:OG	11:Q:597:TYR:HD1	1.48	0.95
12:B:174:HIS:CE1	13:A:921:LYS:NZ	2.35	0.95
4:R:365:THR:CG2	4:R:550:GLN:OE1	2.15	0.95
4:R:503:GLU:CD	2:T:392:GLN:HG2	1.91	0.95
4:R:627:LEU:HD11	3:S:782:ILE:CD1	1.97	0.95
4:R:673:MET:SD	3:S:835:LEU:CD1	2.48	0.95
2:t:357:LEU:HG	4:r:543:PRO:CB	1.90	0.94
5:g:285:VAL:HG23	15:f:266:ASP:N	1.81	0.94
6:L:1247:ILE:CG2	13:A:1280:THR:N	2.30	0.94
6:l:1471:SER:HA	8:d:302:ARG:HH22	1.14	0.94
9:c:641:LEU:CD2	13:a:1121:LEU:CD1	2.41	0.94
11:O:659:VAL:CG1	11:Q:795:PHE:O	2.15	0.94
4:R:447:ARG:HH22	3:S:706:LEU:HD12	1.30	0.94
4:R:596:ARG:HH21	3:S:746:GLU:CG	1.76	0.94
1:H:313:GLU:OE2	11:M:1:MET:CG	2.15	0.94
4:r:110:VAL:O	4:R:508:VAL:HG22	1.67	0.94
6:L:659:SER:CB	13:A:1313:GLY:HA3	1.97	0.94
6:L:673:VAL:HG13	13:A:1397:ASN:OD1	1.66	0.94
8:d:279:GLU:HG2	9:c:453:ARG:NH1	1.80	0.94
10:U:1313:ARG:HD3	13:a:796:HIS:O	1.67	0.94
11:O:469:SER:HB2	11:Q:666:ALA:CB	1.97	0.94
4:R:605:THR:C	2:T:411:GLN:HE22	1.69	0.94
3:S:824:VAL:CG1	2:T:476:LEU:CD1	2.45	0.94
9:C:645:ILE:HD11	13:A:1122:ALA:N	1.81	0.94
9:c:254:LEU:HD22	4:R:465:THR:OG1	1.67	0.94
11:O:455:LYS:C	11:Q:697:CYS:C	2.33	0.94
12:B:287:HIS:HE1	13:A:1007:GLY:CA	1.79	0.94
12:b:174:HIS:CE1	13:a:921:LYS:NZ	2.35	0.94
13:A:178:ILE:HG21	13:A:183:ILE:HD11	1.47	0.94
4:R:588:GLN:HE22	2:T:390:LEU:HG	1.31	0.94
2:t:359:ASN:N	4:r:535:ASN:CA	2.26	0.94
2:t:364:TRP:CH2	4:r:552:LEU:HD13	2.01	0.94
6:L:1522:LYS:HB3	9:C:92:LYS:CB	1.97	0.94
6:l:617:GLU:HB2	13:a:1250:GLN:HE22	1.25	0.94
11:O:539:THR:HG23	11:Q:704:GLU:HG2	1.48	0.94
11:O:656:LEU:HA	11:Q:793:ALA:HB2	1.00	0.94
12:B:287:HIS:CG	13:A:1008:HIS:CD2	2.55	0.94
2:t:378:GLN:CB	3:s:1754:LYS:HB3	1.96	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:302:VAL:C	15:F:267:LYS:O	2.10	0.94
10:U:1211:PRO:CD	12:b:57:THR:CA	2.28	0.94
12:B:221:THR:HG21	13:A:918:GLU:OE2	1.62	0.94
5:g:279:SER:HB3	15:f:265:GLY:CA	1.96	0.94
7:E:32:SER:HB3	9:C:41:LYS:HB2	1.50	0.94
8:D:11:SER:HB2	9:C:66:PRO:HB3	1.50	0.94
8:D:129:ALA:CB	9:C:480:ARG:NH2	2.20	0.94
9:c:318:LYS:HB3	4:R:131:SER:HB3	1.48	0.94
11:O:465:PRO:HB2	11:Q:689:LYS:CG	1.98	0.94
11:O:465:PRO:CG	11:Q:686:TYR:HD1	1.78	0.94
11:O:651:ILE:HB	11:Q:789:PRO:CB	1.97	0.94
4:R:666:ILE:HD13	2:T:476:LEU:CD2	1.98	0.94
3:S:716:PHE:HE1	2:T:365:TRP:CG	1.85	0.94
1:h:226:LEU:CA	11:P:549:LYS:HB2	1.96	0.94
4:r:110:VAL:O	4:R:508:VAL:CG1	2.14	0.94
4:r:119:MET:HG3	4:R:509:LEU:HA	1.09	0.94
7:e:320:LYS:O	9:c:13:ILE:HG12	1.68	0.94
11:O:786:THR:CG2	11:Q:578:ALA:C	2.39	0.94
11:O:787:ILE:CD1	11:Q:583:LYS:HG3	1.94	0.94
4:R:491:PRO:HB2	2:T:381:THR:HG22	1.50	0.94
5:G:54:ARG:NH2	13:A:1334:ARG:CZ	2.25	0.94
6:L:777:PRO:HG2	7:E:257:LEU:C	1.83	0.94
6:L:1244:MET:CG	13:A:1285:ARG:CG	2.43	0.94
6:l:1243:GLY:O	13:a:1276:GLU:HG2	1.51	0.94
8:D:122:HIS:CD2	9:C:478:ASN:O	2.21	0.94
8:d:11:SER:HB3	9:c:66:PRO:CA	1.97	0.94
10:U:1313:ARG:HH21	13:a:795:GLN:CB	1.65	0.94
11:O:36:TYR:N	15:f:587:ASP:HB3	1.83	0.94
11:O:460:ILE:N	11:Q:703:GLN:HB2	1.13	0.94
11:O:468:THR:HG21	11:Q:664:GLU:OE2	1.65	0.94
11:O:470:ARG:HH12	11:Q:671:GLU:HB2	1.18	0.94
13:a:1136:TRP:CE3	15:f:902:ASP:HA	2.03	0.94
4:R:487:PRO:CG	2:T:373:GLU:CD	2.39	0.94
4:R:616:ALA:HA	2:T:422:LEU:HD21	1.32	0.94
2:t:378:GLN:CB	3:s:1754:LYS:HG2	1.98	0.94
6:L:617:GLU:HG2	13:A:1312:HIS:CE1	2.01	0.94
6:L:787:LEU:CA	13:A:1399:HIS:ND1	2.26	0.94
7:E:314:LYS:CD	9:C:4:LEU:H	1.78	0.94
9:c:257:GLN:HE22	4:R:463:LEU:C	1.76	0.94
11:O:437:LEU:HD22	11:Q:699:PRO:HB3	0.94	0.94
12:B:287:HIS:CE1	13:A:1008:HIS:HD2	1.86	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:716:PHE:CD1	2:T:365:TRP:CD2	2.56	0.94
1:H:491:ASP:HB3	15:f:793:GLN:H	1.25	0.94
7:e:5:ARG:HB3	9:c:56:LEU:H	1.33	0.94
8:D:124:GLY:CA	9:C:479:ARG:NH1	2.31	0.94
10:U:1360:GLU:OE2	13:a:1001:LYS:NZ	1.95	0.94
12:B:284:HIS:HE1	13:A:1006:MET:SD	1.91	0.94
2:t:362:ASN:CA	4:r:533:LEU:N	2.29	0.93
12:b:287:HIS:HE1	13:a:1007:GLY:CA	1.79	0.93
4:R:447:ARG:NH2	3:S:702:SER:C	2.26	0.93
3:S:782:ILE:HG21	2:T:432:LEU:HD21	1.49	0.93
1:H:716:SER:CB	11:Q:3:ARG:CG	2.45	0.93
5:G:224:GLY:C	15:F:686:ILE:HD13	1.93	0.93
6:L:1247:ILE:HG23	13:A:1278:SER:HG	1.13	0.93
6:L:1695:LEU:HG	9:C:247:GLN:CD	1.91	0.93
6:l:1246:ALA:CA	13:a:1275:LYS:HB3	1.97	0.93
11:O:469:SER:N	11:Q:667:ILE:CD1	2.30	0.93
11:O:785:LEU:CD1	11:Q:651:ILE:CG2	2.46	0.93
12:b:221:THR:HG23	13:a:918:GLU:HB3	1.49	0.93
4:R:446:CYS:HB3	3:S:701:GLU:HG2	0.93	0.93
4:R:635:HIS:NE2	2:T:454:GLU:N	2.14	0.93
3:S:824:VAL:CG1	2:T:476:LEU:HD12	1.98	0.93
2:t:364:TRP:CA	3:s:1743:ILE:CD1	2.47	0.93
5:G:170:GLN:HG3	15:F:685:HIS:HE2	1.32	0.93
7:E:312:ASN:ND2	9:C:1:MET:H3	1.66	0.93
11:O:3:ARG:HH11	15:f:589:PRO:HG3	1.10	0.93
11:O:459:GLN:O	11:Q:703:GLN:CG	2.17	0.93
11:O:776:LYS:HB3	11:Q:780:PRO:CA	1.97	0.93
12:b:287:HIS:CG	13:a:1008:HIS:CD2	2.55	0.93
4:R:581:LEU:HD11	2:T:383:VAL:CG1	1.98	0.93
1:h:226:LEU:HD22	11:P:549:LYS:HB3	1.50	0.93
2:t:358:GLU:CA	4:r:443:PRO:CG	2.39	0.93
5:G:285:VAL:HG23	15:F:266:ASP:O	1.67	0.93
7:E:314:LYS:HG2	9:C:3:GLU:C	1.93	0.93
10:U:1313:ARG:HD2	13:a:798:SER:H	1.33	0.93
11:O:782:PRO:HB3	11:Q:654:ALA:HA	0.96	0.93
2:t:367:GLU:HB3	3:s:1743:ILE:HG21	1.50	0.93
5:G:269:TRP:C	15:F:254:GLY:HA2	1.92	0.93
9:c:318:LYS:CB	4:R:131:SER:CB	2.45	0.93
9:c:565:ARG:HD3	13:a:1267:GLN:CA	1.82	0.93
9:c:599:MET:HE2	13:a:1121:LEU:HD11	1.48	0.93
10:U:1388:SER:OXT	13:a:1148:ARG:HD3	1.68	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:672:SER:HG	11:Q:787:ILE:HD11	1.17	0.93
13:A:1174:GLU:OE1	15:F:901:GLU:OE2	1.87	0.93
4:R:603:THR:OG1	3:S:753:PHE:HZ	1.50	0.93
4:R:620:GLN:OE1	2:T:425:GLN:HG2	1.68	0.93
1:h:226:LEU:HB3	11:P:549:LYS:HB3	1.50	0.93
5:g:16:ILE:CG2	15:f:303:LYS:CA	2.44	0.93
5:g:304:LYS:HE3	15:f:266:ASP:HA	1.47	0.93
6:L:1253:LEU:HG	13:A:1275:LYS:O	1.67	0.93
6:l:1245:ALA:CB	13:a:1274:THR:HB	1.98	0.93
11:O:463:ARG:CB	11:Q:707:GLN:CA	2.07	0.93
12:b:120:ILE:HG23	13:a:520:GLN:HE22	1.19	0.93
4:R:541:SER:CB	3:S:699:THR:CB	2.39	0.93
6:L:614:ALA:CA	13:A:1247:ARG:NH2	2.30	0.93
7:E:20:PHE:CD2	9:C:26:SER:O	2.17	0.93
9:c:257:GLN:NE2	4:R:464:GLY:N	1.86	0.93
9:c:619:GLN:CB	11:M:7:GLU:CA	2.34	0.93
9:c:638:ALA:CB	13:a:1128:ARG:CD	2.47	0.93
3:S:821:ASN:CB	2:T:469:LEU:HD22	1.96	0.93
5:g:271:ILE:CG1	15:f:697:ARG:NH2	2.30	0.93
6:l:617:GLU:HG3	13:a:1250:GLN:NE2	1.79	0.93
11:O:454:ARG:HG2	11:Q:695:ASN:HD22	0.76	0.93
6:L:1200:ASP:HB3	13:A:1275:LYS:NZ	1.57	0.93
7:e:7:ILE:CA	9:c:54:MET:N	2.29	0.93
8:d:11:SER:HB2	9:c:66:PRO:HB3	1.50	0.93
8:d:12:HIS:H	9:c:69:ARG:NH2	1.38	0.93
8:d:189:VAL:CG1	9:c:519:LEU:HD13	1.98	0.93
9:c:641:LEU:HD21	13:a:1121:LEU:C	1.94	0.93
11:O:35:LEU:CD1	15:f:586:GLY:O	2.16	0.93
12:B:219:ARG:CD	13:A:917:GLY:C	2.41	0.93
12:b:287:HIS:CE1	13:a:1008:HIS:HD2	1.87	0.93
4:R:578:VAL:HG23	3:S:732:PHE:HD1	1.07	0.93
5:G:302:VAL:H	15:F:268:LEU:HD23	1.34	0.92
7:E:29:THR:HG22	9:C:35:TYR:CZ	2.04	0.92
11:O:791:LYS:HG2	11:Q:454:ARG:NE	1.83	0.92
13:A:1136:TRP:CE3	15:F:902:ASP:HA	2.04	0.92
4:R:482:LEU:CD2	2:T:370:GLU:HG3	1.96	0.92
4:r:95:LEU:HB3	4:R:519:HIS:HB3	1.52	0.92
5:g:13:GLU:CG	13:a:1383:ALA:HB2	1.99	0.92
5:g:287:LEU:HD21	15:f:261:LEU:HD22	1.38	0.92
6:L:1695:LEU:H	9:C:255:LYS:HD2	1.25	0.92
9:C:653:GLU:CD	13:A:1042:LEU:HD12	1.89	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:252:PHE:CG	4:R:461:LEU:HD11	2.03	0.92
11:O:461:PHE:HB3	11:Q:704:GLU:C	1.94	0.92
12:b:219:ARG:CD	13:a:917:GLY:C	2.41	0.92
4:r:95:LEU:O	4:R:519:HIS:CG	2.22	0.92
5:G:58:GLY:HA2	13:A:1378:TRP:HD1	0.76	0.92
6:L:613:LEU:HB3	13:A:1247:ARG:CZ	1.98	0.92
6:L:696:GLU:OE2	8:d:321:LEU:HD12	1.69	0.92
6:l:470:THR:HG23	13:a:1194:HIS:ND1	1.84	0.92
7:E:318:VAL:O	9:C:9:ALA:O	1.87	0.92
8:d:259:ALA:HB1	9:c:453:ARG:NH1	1.83	0.92
11:O:792:SER:HA	11:Q:588:LEU:HD23	1.48	0.92
5:g:58:GLY:HA2	13:a:1378:TRP:HD1	0.76	0.92
6:L:1696:ASN:CB	9:C:257:GLN:N	2.26	0.92
6:l:172:ARG:HB3	10:U:1127:THR:CB	1.99	0.92
7:e:20:PHE:CZ	9:c:33:LEU:HB2	2.04	0.92
8:D:11:SER:HB3	9:C:66:PRO:CA	1.98	0.92
8:d:13:LYS:CE	9:c:413:SER:CB	2.41	0.92
11:O:454:ARG:O	11:Q:698:LEU:HD23	1.68	0.92
4:R:577:ARG:NH1	2:T:387:ASP:OD2	2.02	0.92
1:H:722:ALA:HA	11:Q:10:ARG:HH12	1.15	0.92
1:h:160:SER:O	11:P:551:ARG:NH2	2.01	0.92
5:G:270:SER:HA	15:F:255:TRP:H	1.15	0.92
4:R:620:GLN:CG	2:T:425:GLN:NE2	2.32	0.92
4:R:666:ILE:HG12	3:S:828:VAL:CB	1.98	0.92
9:c:600:ARG:HH21	13:a:1222:THR:HG22	1.09	0.92
10:U:1386:ARG:HG2	13:a:1152:SER:N	1.84	0.92
11:O:649:ALA:CA	11:Q:790:SER:N	2.32	0.92
11:O:778:SER:H	11:Q:780:PRO:HG3	1.34	0.92
11:M:7:GLU:C	15:F:435:GLU:OE1	2.13	0.92
12:b:284:HIS:HE1	13:a:1006:MET:SD	1.91	0.92
3:s:1735:ILE:CD1	4:r:549:LEU:H	1.83	0.92
5:g:292:VAL:HA	15:f:653:ARG:HH11	1.14	0.92
5:G:275:ILE:HB	15:F:255:TRP:CE2	2.03	0.92
6:L:1245:ALA:N	13:A:1285:ARG:NH2	2.18	0.92
6:l:620:GLN:HG3	13:a:1339:TYR:HD1	0.75	0.92
11:O:455:LYS:HG3	11:Q:695:ASN:HB3	1.49	0.92
11:O:785:LEU:CB	11:Q:582:HIS:NE2	2.13	0.92
13:a:1174:GLU:OE1	15:f:901:GLU:OE2	1.88	0.92
1:h:723:MET:HE3	11:P:333:VAL:HA	1.51	0.92
2:t:364:TRP:CD1	3:s:1743:ILE:HD12	2.05	0.92
2:t:382:VAL:HG22	3:s:1758:SER:HA	1.49	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:170:GLN:HG3	15:f:685:HIS:HE2	1.33	0.92
6:L:659:SER:CB	13:A:1313:GLY:CA	2.48	0.92
6:L:778:GLU:HG2	7:E:260:SER:H	1.12	0.92
4:R:363:PHE:CD1	4:R:551:LEU:HB2	2.04	0.92
5:g:24:TYR:HE2	15:f:735:ARG:HD2	1.10	0.92
5:G:304:LYS:HG3	15:F:267:LYS:H	1.33	0.92
6:l:169:MET:HE2	10:U:1130:THR:CA	1.96	0.92
9:c:624:SER:N	11:M:14:ASN:OD1	2.03	0.92
4:R:613:PHE:HB2	3:S:768:PHE:HZ	1.22	0.92
8:D:40:ASN:HA	9:C:412:HIS:NE2	1.85	0.92
1:H:465:GLU:HG3	11:N:23:ARG:CZ	1.98	0.91
7:E:15:ILE:H	9:C:37:THR:C	1.77	0.91
7:e:18:VAL:HG11	9:c:33:LEU:HD23	1.52	0.91
11:O:458:LYS:HA	11:Q:693:ILE:HG22	1.52	0.91
11:O:786:THR:CG2	11:Q:578:ALA:CA	2.48	0.91
2:t:364:TRP:CZ2	3:s:1736:LEU:O	2.23	0.91
3:s:1728:VAL:CG1	4:r:543:PRO:C	2.43	0.91
5:G:16:ILE:CB	15:F:303:LYS:HA	1.99	0.91
5:G:279:SER:HB3	15:F:265:GLY:CA	2.00	0.91
6:L:468:GLN:CG	13:A:1196:PRO:HD2	1.99	0.91
6:L:613:LEU:C	13:A:1247:ARG:NH2	2.09	0.91
6:L:1247:ILE:HD13	13:A:1281:ASP:N	1.85	0.91
6:l:466:PRO:CD	13:a:1213:LEU:CD2	2.48	0.91
11:O:596:GLU:CB	11:Q:795:PHE:CE1	2.52	0.91
11:O:789:PRO:CD	11:Q:580:GLY:O	2.17	0.91
5:g:224:GLY:C	15:f:686:ILE:HD13	1.95	0.91
11:O:456:TRP:HE3	11:Q:699:PRO:HG3	1.32	0.91
11:O:784:LYS:HG2	11:Q:651:ILE:H	1.31	0.91
1:H:313:GLU:CD	11:M:1:MET:CG	2.41	0.91
1:H:716:SER:CB	11:Q:3:ARG:HD3	1.98	0.91
3:s:1735:ILE:HD11	4:r:545:PRO:O	0.74	0.91
5:G:167:LEU:N	15:F:685:HIS:HD2	1.67	0.91
9:c:619:GLN:OE1	11:M:7:GLU:N	2.03	0.91
11:O:482:LEU:CD1	11:Q:794:ARG:HH11	1.83	0.91
4:R:578:VAL:CG2	3:S:732:PHE:CB	2.47	0.91
2:t:356:GLN:OE1	4:r:542:SER:HA	1.69	0.91
6:L:1247:ILE:CB	13:A:1281:ASP:H	1.82	0.91
9:c:359:ILE:HG23	9:c:372:VAL:HG13	1.53	0.91
9:c:606:MET:CE	9:c:634:ARG:HH21	1.84	0.91
10:U:1362:GLN:HB3	13:a:1024:ARG:CD	1.98	0.91
13:A:1136:TRP:HZ3	15:F:902:ASP:O	1.32	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:574:ILE:HD11	2:T:376:PHE:HE2	1.29	0.91
4:R:596:ARG:HH21	3:S:746:GLU:CB	1.84	0.91
5:g:304:LYS:HG3	15:f:267:LYS:H	1.35	0.91
5:G:292:VAL:O	15:F:653:ARG:NH2	1.97	0.91
6:L:613:LEU:HB2	13:A:1247:ARG:NE	1.82	0.91
6:L:787:LEU:HA	13:A:1399:HIS:CE1	2.04	0.91
6:l:1709:ARG:NH1	4:R:243:HIS:NE2	2.17	0.91
11:O:462:PRO:O	11:Q:706:PHE:CE2	2.09	0.91
11:O:481:LEU:HD23	11:Q:705:GLU:HB2	1.52	0.91
4:R:635:HIS:HB2	2:T:453:GLU:HG3	0.94	0.91
5:g:271:ILE:HG12	15:f:697:ARG:HH22	1.36	0.91
8:d:11:SER:OG	9:c:66:PRO:O	1.88	0.91
9:c:593:GLU:OE1	13:a:1193:LYS:NZ	2.02	0.91
11:M:31:LEU:CD1	15:F:436:ARG:HD2	1.96	0.91
1:H:321:ARG:HD3	15:F:461:GLY:C	1.95	0.91
3:s:1735:ILE:CD1	4:r:548:CYS:N	2.33	0.91
5:g:13:GLU:OE1	13:a:1334:ARG:CG	2.18	0.91
5:g:285:VAL:CG2	15:f:266:ASP:O	2.19	0.91
5:G:13:GLU:OE1	13:A:1334:ARG:CG	2.18	0.91
6:L:659:SER:HB2	13:A:1313:GLY:CA	1.91	0.91
9:c:250:THR:C	4:R:459:SER:O	2.14	0.91
11:O:12:VAL:O	15:f:584:SER:CB	2.15	0.91
12:B:196:THR:CG2	13:A:634:HIS:HD2	1.81	0.91
4:R:620:GLN:CD	3:S:775:ASN:OD1	2.13	0.91
1:H:719:GLU:HB3	11:Q:7:GLU:HA	0.91	0.91
7:E:20:PHE:N	9:C:26:SER:OG	2.02	0.91
9:c:392:PHE:CE2	9:c:394:ALA:HB3	2.05	0.91
4:R:543:PRO:CA	3:S:702:SER:O	2.03	0.91
6:l:172:ARG:HB3	10:U:1127:THR:HG1	1.35	0.91
11:O:1:MET:HB3	15:f:567:GLU:HG3	1.52	0.91
11:O:776:LYS:O	11:Q:780:PRO:CG	2.18	0.91
4:R:659:LEU:HG	3:S:821:ASN:CG	1.95	0.91
6:L:1244:MET:C	13:A:1285:ARG:CZ	2.42	0.90
6:L:1695:LEU:HG	9:C:247:GLN:CG	2.01	0.90
9:c:565:ARG:NH1	13:a:1221:ASP:OD2	2.03	0.90
9:c:620:LYS:C	11:M:13:GLU:HB2	1.71	0.90
11:O:662:LYS:CE	11:Q:595:LYS:CE	2.48	0.90
4:R:526:ARG:NH1	2:T:369:LEU:HD21	1.85	0.90
1:H:158:PRO:CB	11:N:475:ILE:HD11	1.73	0.90
6:l:613:LEU:HD22	13:a:1250:GLN:HA	1.48	0.90
6:l:620:GLN:HG2	13:a:1339:TYR:CD1	2.07	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:18:VAL:HG23	9:C:24:GLY:HA3	1.51	0.90
7:e:148:MET:CG	9:c:499:LEU:CD1	2.43	0.90
8:D:11:SER:CB	9:C:66:PRO:HB3	2.00	0.90
9:c:619:GLN:O	11:M:6:ALA:O	1.86	0.90
10:U:1385:GLU:CB	13:a:1150:GLY:CA	2.27	0.90
4:R:492:LEU:HB3	2:T:380:ALA:O	1.69	0.90
2:t:357:LEU:CG	4:r:543:PRO:HB2	1.97	0.90
5:G:13:GLU:CG	13:A:1383:ALA:HB2	1.99	0.90
5:G:289:LYS:NZ	15:F:631:TYR:CE2	2.38	0.90
5:G:292:VAL:HA	15:F:653:ARG:HH11	1.13	0.90
6:l:44:LYS:NZ	10:U:1134:ASP:OD2	2.04	0.90
7:E:12:LYS:HG2	9:C:48:ALA:O	1.70	0.90
11:O:463:ARG:O	11:Q:709:CYS:N	2.01	0.90
11:M:35:LEU:HG	15:F:436:ARG:NE	1.87	0.90
4:R:443:PRO:HG2	3:S:709:ILE:HD11	1.53	0.90
4:R:544:PRO:O	4:R:548:CYS:SG	2.28	0.90
5:g:16:ILE:CB	15:f:303:LYS:HA	2.00	0.90
5:G:54:ARG:HH22	13:A:1334:ARG:CD	1.85	0.90
5:G:275:ILE:CB	15:F:255:TRP:NE1	2.34	0.90
6:L:811:PRO:CD	8:d:27:LEU:HD11	2.01	0.90
7:e:282:TRP:CE2	9:c:39:TYR:HB2	2.06	0.90
6:l:620:GLN:HG2	13:a:1339:TYR:HD1	1.36	0.90
9:c:620:LYS:O	11:M:13:GLU:CB	2.20	0.90
9:c:620:LYS:C	11:M:13:GLU:CB	2.43	0.90
10:U:1363:SER:O	13:a:994:ALA:HB1	1.71	0.90
11:O:463:ARG:CA	11:Q:707:GLN:CA	2.49	0.90
4:R:532:LEU:CB	2:T:362:ILE:N	2.35	0.90
1:H:554:GLN:NE2	11:N:544:PRO:CG	2.25	0.90
5:g:166:SER:C	15:f:685:HIS:CD2	2.46	0.90
6:L:655:GLU:CG	13:A:1250:GLN:N	2.22	0.90
6:L:1694:GLY:O	9:C:252:PHE:HD2	1.35	0.90
7:E:231:LEU:HD11	9:C:435:LEU:CD2	2.02	0.90
11:O:455:LYS:HB3	11:Q:697:CYS:N	1.87	0.90
4:R:477:ILE:HG22	2:T:363:ASN:ND2	1.85	0.90
11:O:459:GLN:O	11:Q:703:GLN:HG3	1.72	0.90
11:O:460:ILE:HG12	11:Q:700:ALA:HA	1.52	0.90
11:O:463:ARG:CG	11:Q:707:GLN:HA	2.02	0.90
11:O:470:ARG:CD	11:Q:668:ILE:HG13	2.02	0.90
4:R:443:PRO:CG	3:S:709:ILE:HD11	2.01	0.90
2:t:366:LEU:HD11	4:r:532:LEU:HD11	1.52	0.90
5:g:270:SER:HA	15:f:255:TRP:H	1.16	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:d:9:PHE:CZ	9:c:70:LYS:CA	2.55	0.90
8:d:365:GLU:CB	9:c:69:ARG:HH21	1.70	0.90
10:U:1362:GLN:CG	13:a:1024:ARG:HG2	2.01	0.90
11:O:463:ARG:NH2	11:Q:752:LEU:O	2.04	0.90
4:R:632:ARG:HA	2:T:453:GLU:CG	1.97	0.90
3:S:824:VAL:HG11	2:T:472:MET:HB3	1.54	0.90
5:g:24:TYR:HD2	15:f:735:ARG:NH1	1.45	0.90
5:g:275:ILE:CB	15:f:255:TRP:NE1	2.34	0.90
5:G:54:ARG:HH22	13:A:1334:ARG:CZ	1.82	0.90
7:e:309:TYR:HB2	9:c:390:LEU:HD21	1.48	0.90
11:O:456:TRP:N	11:Q:697:CYS:C	2.20	0.90
11:O:594:GLN:HB2	11:Q:796:SER:HB2	0.90	0.90
12:B:284:HIS:CE1	13:A:1006:MET:SD	2.65	0.90
4:R:365:THR:HA	4:R:550:GLN:NE2	1.87	0.90
3:s:1735:ILE:HD13	4:r:549:LEU:H	1.37	0.90
5:G:26:ILE:HD11	15:F:735:ARG:CZ	2.01	0.90
6:L:777:PRO:CA	7:E:258:SER:HA	2.01	0.90
9:c:600:ARG:HH22	13:a:1222:THR:HG21	1.36	0.90
4:R:443:PRO:CG	3:S:709:ILE:CD1	2.49	0.90
4:R:588:GLN:NE2	2:T:390:LEU:HG	1.85	0.90
1:H:489:ALA:HA	15:f:790:LYS:HA	0.94	0.89
1:H:719:GLU:HB2	11:Q:7:GLU:CA	1.97	0.89
6:L:1249:GLN:HB2	13:A:1276:GLU:N	1.86	0.89
6:l:173:PHE:HB2	10:U:1127:THR:C	1.95	0.89
6:l:1709:ARG:HH12	4:R:243:HIS:CE1	1.88	0.89
8:D:13:LYS:CE	9:C:413:SER:HA	2.02	0.89
11:O:455:LYS:HG2	11:Q:695:ASN:HB3	0.91	0.89
11:O:456:TRP:CE3	11:Q:699:PRO:HG3	2.07	0.89
11:O:646:GLU:O	11:Q:789:PRO:CD	2.19	0.89
11:O:782:PRO:CD	11:Q:777:HIS:HE1	1.77	0.89
12:b:284:HIS:CE1	13:a:1006:MET:SD	2.65	0.89
4:R:578:VAL:CG2	3:S:732:PHE:HB3	2.01	0.89
6:l:481:HIS:CD2	13:a:1199:ALA:C	2.49	0.89
9:C:596:TYR:CE1	13:A:1182:TYR:HE2	1.85	0.89
11:O:457:LEU:HD23	11:Q:702:GLU:H	0.76	0.89
11:M:35:LEU:HG	15:F:436:ARG:HE	1.34	0.89
1:H:158:PRO:CG	11:N:475:ILE:HD11	2.01	0.89
1:h:226:LEU:CD1	11:P:548:ALA:H	1.85	0.89
5:G:24:TYR:HE2	15:F:735:ARG:HD2	1.11	0.89
7:E:314:LYS:HD2	9:C:4:LEU:HG	1.51	0.89
9:c:469:LYS:HE2	9:c:493:ASP:OD2	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:645:ILE:HG21	13:a:1122:ALA:HB1	1.53	0.89
11:O:649:ALA:HA	11:Q:790:SER:H	1.32	0.89
12:B:287:HIS:CG	13:A:1008:HIS:HD2	1.90	0.89
3:S:782:ILE:CG2	2:T:432:LEU:HD21	2.03	0.89
5:g:54:ARG:HH22	13:a:1334:ARG:CD	1.85	0.89
13:a:1136:TRP:CE3	15:f:902:ASP:O	2.26	0.89
4:R:490:PRO:HG3	2:T:373:GLU:O	1.71	0.89
4:R:526:ARG:HH12	2:T:369:LEU:HD21	1.34	0.89
4:r:96:PHE:CE1	4:R:512:VAL:CA	2.52	0.89
7:E:32:SER:CB	9:C:41:LYS:H	1.85	0.89
11:O:463:ARG:N	11:Q:707:GLN:N	1.99	0.89
11:O:659:VAL:HG12	11:Q:795:PHE:O	1.72	0.89
4:R:439:LEU:CB	2:T:359:GLU:HG3	1.95	0.89
4:R:606:ALA:HA	2:T:411:GLN:NE2	1.86	0.89
6:L:613:LEU:CD1	13:A:1247:ARG:HG2	1.99	0.89
6:l:481:HIS:HD2	13:a:1199:ALA:O	1.54	0.89
7:E:29:THR:HG22	9:C:35:TYR:CD2	2.03	0.89
9:C:653:GLU:OE1	13:A:1042:LEU:CD1	2.20	0.89
9:c:318:LYS:CB	4:R:131:SER:HB3	2.02	0.89
11:O:470:ARG:HH22	11:Q:671:GLU:N	1.54	0.89
1:H:322:GLN:HE22	11:M:1:MET:HG2	1.36	0.89
2:t:364:TRP:HA	3:s:1743:ILE:CD1	2.02	0.89
6:L:1693:ILE:O	9:C:247:GLN:CD	2.09	0.89
11:O:434:LEU:HD13	11:Q:701:GLU:OE1	1.73	0.89
11:O:457:LEU:O	11:Q:702:GLU:O	1.91	0.89
11:O:602:VAL:HG23	11:Q:791:LYS:O	1.72	0.89
4:R:444:LEU:HB3	3:S:705:ILE:HD13	1.54	0.89
4:R:495:SER:OG	2:T:381:THR:HG23	1.72	0.89
4:R:585:LYS:HZ2	3:S:739:GLU:CD	1.76	0.89
2:t:364:TRP:HZ2	3:s:1739:ILE:N	1.61	0.89
5:g:54:ARG:NH2	13:a:1334:ARG:CZ	2.25	0.89
6:L:723:GLY:HA2	13:A:1399:HIS:NE2	1.86	0.89
6:L:1200:ASP:HB2	13:A:1275:LYS:HZ3	1.30	0.89
6:l:617:GLU:CD	13:a:1250:GLN:NE2	2.25	0.89
7:e:24:GLY:HA3	9:c:29:PRO:HD2	1.54	0.89
11:O:475:ILE:CD1	11:Q:767:HIS:CB	2.51	0.89
4:R:676:GLN:HG2	3:S:839:TRP:CZ3	2.08	0.89
3:s:1735:ILE:HD12	4:r:548:CYS:HB2	0.89	0.89
5:g:54:ARG:HH22	13:a:1334:ARG:CZ	1.82	0.89
5:G:271:ILE:HG12	15:F:697:ARG:HH22	1.35	0.89
6:L:613:LEU:HD13	13:A:1247:ARG:HG2	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:673:VAL:HG21	13:A:1397:ASN:ND2	1.86	0.89
6:l:1702:GLU:OE2	4:R:245:LYS:HE3	1.73	0.89
8:D:260:GLU:CB	9:C:453:ARG:NH2	2.35	0.89
11:O:455:LYS:C	11:Q:698:LEU:N	2.20	0.89
11:O:470:ARG:CG	11:Q:667:ILE:CB	2.43	0.89
11:O:787:ILE:O	11:Q:579:ARG:O	1.91	0.89
4:R:626:ARG:HH21	2:T:433:THR:HG23	1.30	0.89
6:l:51:ILE:CG2	10:U:1086:ARG:HH22	1.85	0.89
11:O:1:MET:HB3	15:f:567:GLU:N	1.87	0.89
11:O:531:TRP:HZ2	11:Q:701:GLU:N	1.62	0.89
11:O:582:HIS:CE1	11:Q:792:SER:HB3	2.08	0.89
11:O:782:PRO:HD2	11:Q:777:HIS:HE1	1.14	0.89
2:t:361:ILE:CD1	4:r:443:PRO:HB2	2.03	0.88
7:e:321:GLY:HA3	9:c:16:LEU:HB3	1.27	0.88
8:d:189:VAL:HG11	9:c:519:LEU:CD1	2.04	0.88
11:O:651:ILE:N	11:Q:789:PRO:HB3	1.89	0.88
11:O:652:ALA:HB1	11:Q:791:LYS:CA	2.03	0.88
12:B:219:ARG:HD2	13:A:917:GLY:HA3	1.54	0.88
4:R:630:ILE:HG21	2:T:436:GLU:CG	2.03	0.88
4:R:666:ILE:HG13	3:S:828:VAL:HG11	1.54	0.88
3:S:772:LYS:HB2	2:T:421:ILE:HD11	1.53	0.88
9:C:593:GLU:OE1	13:A:1193:LYS:NZ	2.05	0.88
11:O:460:ILE:HB	11:Q:703:GLN:N	1.87	0.88
12:b:287:HIS:CE1	13:a:1008:HIS:CD2	2.62	0.88
13:A:1136:TRP:CE3	15:F:902:ASP:O	2.26	0.88
13:A:1172:ILE:HD13	15:F:902:ASP:N	1.83	0.88
4:R:613:PHE:CE2	3:S:768:PHE:CD1	2.61	0.88
4:R:635:HIS:CB	2:T:453:GLU:CA	2.30	0.88
5:g:167:LEU:N	15:f:685:HIS:HD2	1.71	0.88
8:D:13:LYS:HE3	9:C:413:SER:HA	1.51	0.88
11:O:657:ASP:C	11:Q:592:TYR:HH	1.81	0.88
4:R:666:ILE:CD1	2:T:476:LEU:CD2	2.51	0.88
1:H:712:ALA:HB2	11:Q:35:LEU:HD21	1.55	0.88
1:h:229:GLU:CD	11:P:549:LYS:NZ	2.31	0.88
5:g:2:VAL:HG22	15:f:309:LEU:CG	2.04	0.88
5:g:24:TYR:CD1	15:f:732:ARG:NH1	2.42	0.88
5:g:271:ILE:N	15:f:255:TRP:HB2	1.87	0.88
5:g:302:VAL:H	15:f:268:LEU:HD23	1.38	0.88
6:L:613:LEU:CG	13:A:1247:ARG:HG2	2.04	0.88
7:e:321:GLY:HA3	9:c:16:LEU:HD23	1.23	0.88
11:O:455:LYS:O	11:Q:698:LEU:CA	2.21	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:774:ALA:N	11:Q:782:PRO:O	2.05	0.88
12:b:287:HIS:CG	13:a:1008:HIS:HD2	1.90	0.88
4:R:592:LEU:HD11	3:S:743:LEU:HD12	1.01	0.88
4:R:666:ILE:HD13	2:T:476:LEU:CG	2.04	0.88
1:H:313:GLU:HG2	11:M:1:MET:N	1.69	0.88
6:L:1695:LEU:HA	9:C:252:PHE:C	1.95	0.88
6:l:169:MET:CE	10:U:1130:THR:CA	2.34	0.88
8:D:260:GLU:H	9:C:453:ARG:HH22	1.20	0.88
9:c:635:LEU:HD21	9:c:639:ARG:CZ	2.03	0.88
11:O:596:GLU:HG3	11:Q:795:PHE:HD1	1.34	0.88
11:O:784:LYS:HE2	11:Q:647:ASP:O	1.73	0.88
12:b:286:ALA:O	13:a:1008:HIS:CG	1.74	0.88
13:a:1136:TRP:HZ3	15:f:902:ASP:O	1.31	0.88
6:L:465:GLU:HB3	13:A:1197:SER:C	1.98	0.88
10:U:1386:ARG:CD	13:a:1152:SER:HA	2.03	0.88
4:R:532:LEU:HB2	2:T:362:ILE:CA	1.62	0.88
2:t:368:LEU:HD22	4:r:530:ASN:HD22	1.36	0.88
2:t:382:VAL:HG11	3:s:1757:THR:CB	2.03	0.88
5:g:26:ILE:HD11	15:f:735:ARG:CZ	2.02	0.88
6:l:617:GLU:HB3	13:a:1314:VAL:CG2	2.03	0.88
7:E:231:LEU:CD1	9:C:435:LEU:HD22	2.03	0.88
8:D:40:ASN:HA	9:C:412:HIS:CE1	2.08	0.88
10:U:1359:VAL:HG21	13:a:1027:ASP:O	1.74	0.88
11:O:18:SER:OG	15:f:583:ILE:HA	1.73	0.88
11:O:781:SER:CB	11:Q:777:HIS:CB	2.52	0.88
1:H:491:ASP:CB	15:f:793:GLN:N	2.34	0.88
4:r:96:PHE:CZ	4:R:512:VAL:CG2	2.55	0.88
5:g:271:ILE:HB	15:f:255:TRP:O	1.73	0.88
7:E:13:ASP:H	9:C:38:LEU:CD1	1.69	0.88
7:e:7:ILE:CB	9:c:54:MET:H	1.86	0.88
10:U:1360:GLU:HG2	13:a:1001:LYS:HD2	1.56	0.88
4:R:363:PHE:CZ	4:R:551:LEU:HD22	2.09	0.88
4:R:447:ARG:NH1	3:S:702:SER:HB3	1.87	0.88
4:r:122:GLU:HG3	4:R:506:PRO:C	1.99	0.88
4:r:145:ILE:HD12	4:R:507:HIS:N	1.87	0.88
5:G:167:LEU:N	15:F:685:HIS:CD2	2.38	0.88
6:L:743:ARG:NH2	8:d:24:ALA:HB1	1.89	0.88
6:L:788:GLN:OE1	13:A:1398:GLN:O	1.91	0.88
11:O:461:PHE:HB3	11:Q:706:PHE:H	1.36	0.88
11:O:462:PRO:O	11:Q:706:PHE:CZ	1.87	0.88
11:O:662:LYS:CG	11:Q:592:TYR:CD1	2.49	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:776:LYS:HE3	11:Q:781:SER:C	1.96	0.88
4:R:633:SER:O	2:T:449:GLN:CD	2.16	0.88
6:L:1245:ALA:H	13:A:1285:ARG:HH22	1.22	0.88
8:d:127:MET:HE3	9:c:478:ASN:HA	1.56	0.88
9:c:434:LYS:CG	9:c:460:MET:HE3	2.02	0.88
9:c:565:ARG:CD	13:a:1267:GLN:CA	2.51	0.88
11:O:673:VAL:HG22	11:Q:787:ILE:CB	2.04	0.88
12:b:196:THR:CG2	13:a:634:HIS:HD2	1.80	0.88
4:R:588:GLN:NE2	2:T:390:LEU:HD23	1.88	0.88
4:R:662:LEU:HD21	3:S:825:LYS:N	1.87	0.88
3:s:1739:ILE:HG13	4:r:552:LEU:CB	2.02	0.87
5:G:69:MET:O	15:F:734:ARG:NH1	2.06	0.87
7:E:312:ASN:HB2	9:C:1:MET:HB2	1.55	0.87
7:e:7:ILE:HG13	9:c:54:MET:C	1.99	0.87
9:c:252:PHE:CG	4:R:461:LEU:CD1	2.58	0.87
9:c:320:THR:HG22	4:R:127:TRP:C	1.98	0.87
11:O:457:LEU:O	11:Q:703:GLN:N	2.05	0.87
11:O:470:ARG:HD3	11:Q:668:ILE:HG13	1.54	0.87
6:L:1200:ASP:HB2	13:A:1275:LYS:HZ2	1.32	0.87
11:O:454:ARG:NE	11:Q:692:GLU:O	2.06	0.87
4:R:659:LEU:CG	3:S:821:ASN:CG	2.47	0.87
2:t:362:ASN:H	4:r:533:LEU:HB2	1.11	0.87
4:r:110:VAL:N	4:R:508:VAL:HG22	1.89	0.87
6:l:173:PHE:HD2	10:U:1128:MET:HA	1.33	0.87
7:e:27:MET:HE3	9:c:54:MET:CE	1.84	0.87
8:D:169:SER:O	9:C:516:ASP:OD2	1.90	0.87
4:R:494:CYS:SG	2:T:383:VAL:HG12	2.14	0.87
3:S:817:ILE:CG2	2:T:469:LEU:CD1	2.47	0.87
5:g:69:MET:O	15:f:734:ARG:NH1	2.08	0.87
5:G:24:TYR:CD1	15:F:732:ARG:NH1	2.42	0.87
6:l:466:PRO:HD2	13:a:1213:LEU:CD2	2.03	0.87
7:e:5:ARG:H	9:c:55:TYR:HB3	1.34	0.87
12:b:264:GLU:OE2	13:a:973:LEU:HD21	0.99	0.87
12:b:287:HIS:CE1	13:a:1008:HIS:N	2.41	0.87
4:R:482:LEU:HD21	2:T:370:GLU:CD	1.69	0.87
1:H:554:GLN:OE1	11:N:544:PRO:CB	2.13	0.87
5:g:167:LEU:N	15:f:685:HIS:CD2	2.42	0.87
5:G:271:ILE:N	15:F:255:TRP:HB2	1.89	0.87
6:L:811:PRO:CD	8:d:27:LEU:CD1	2.52	0.87
6:L:1251:PRO:HG2	13:A:1260:TRP:HE1	1.40	0.87
11:O:781:SER:CB	11:Q:777:HIS:HB3	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:786:THR:CB	11:Q:578:ALA:CA	2.50	0.87
11:M:35:LEU:CD1	15:F:436:ARG:HE	1.88	0.87
12:B:287:HIS:CE1	13:A:1008:HIS:CD2	2.62	0.87
12:b:196:THR:HG23	13:a:634:HIS:HD2	1.32	0.87
1:H:160:SER:HB3	11:N:475:ILE:HG12	1.53	0.87
4:r:119:MET:HB3	4:R:512:VAL:HG23	1.56	0.87
8:D:189:VAL:HG11	9:C:519:LEU:HD12	0.88	0.87
9:c:254:LEU:HD13	4:R:386:ILE:CG1	2.05	0.87
9:c:565:ARG:CD	13:a:1267:GLN:HA	2.03	0.87
10:U:1209:SER:O	12:b:57:THR:HB	1.73	0.87
11:O:463:ARG:HB2	11:Q:707:GLN:HA	0.98	0.87
11:O:463:ARG:CB	11:Q:710:LEU:CB	2.50	0.87
12:B:287:HIS:CE1	13:A:1008:HIS:N	2.41	0.87
12:b:88:ALA:HB1	13:a:499:LYS:NZ	1.89	0.87
3:S:821:ASN:CA	2:T:469:LEU:HD22	2.05	0.87
2:t:357:LEU:O	3:s:1736:LEU:HD21	1.73	0.87
7:e:6:SER:HB2	9:c:55:TYR:HE1	1.38	0.87
11:O:12:VAL:N	15:f:586:GLY:N	2.23	0.87
11:O:460:ILE:HB	11:Q:699:PRO:O	1.72	0.87
5:G:304:LYS:CG	15:F:267:LYS:H	1.87	0.87
7:E:13:ASP:CB	9:C:41:LYS:HG3	2.05	0.87
7:e:7:ILE:N	9:c:54:MET:C	2.32	0.87
7:e:91:GLY:CA	8:d:127:MET:CG	2.53	0.87
11:O:35:LEU:HD11	15:f:589:PRO:N	1.89	0.87
11:O:780:PRO:HG2	11:Q:656:LEU:C	1.99	0.87
12:B:88:ALA:HB1	13:A:499:LYS:NZ	1.89	0.87
4:R:446:CYS:H	3:S:705:ILE:CD1	1.86	0.87
4:R:602:LEU:CD1	2:T:408:LYS:HG2	2.03	0.87
5:G:2:VAL:HG22	15:F:309:LEU:CG	2.04	0.87
6:L:1245:ALA:H	13:A:1285:ARG:NH2	1.70	0.87
6:l:470:THR:CB	13:a:1261:GLU:CD	2.44	0.87
8:D:127:MET:CE	9:C:477:CYS:O	2.23	0.87
8:D:260:GLU:HB2	9:C:453:ARG:HH22	1.39	0.87
9:c:621:GLN:HG2	11:M:15:ALA:H	1.39	0.87
4:R:584:GLN:NE2	2:T:390:LEU:HD22	1.89	0.87
2:t:378:GLN:CB	3:s:1754:LYS:CB	2.42	0.86
4:R:626:ARG:NH2	2:T:433:THR:CA	2.38	0.86
4:R:662:LEU:CG	3:S:825:LYS:HG2	2.04	0.86
1:H:158:PRO:CB	11:N:475:ILE:HD12	1.82	0.86
2:t:364:TRP:NE1	3:s:1740:ARG:HG3	1.90	0.86
6:l:613:LEU:CD2	13:a:1250:GLN:CA	2.53	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:32:SER:HB3	9:C:41:LYS:CB	2.05	0.86
7:e:18:VAL:HG23	9:c:35:TYR:CZ	2.09	0.86
8:d:259:ALA:HB1	9:c:453:ARG:CZ	2.06	0.86
11:O:595:LYS:NZ	11:Q:591:PHE:CD2	2.30	0.86
11:O:783:THR:OG1	11:Q:602:VAL:HG13	1.74	0.86
11:O:792:SER:H	11:Q:454:ARG:HH11	1.23	0.86
8:d:122:HIS:CD2	9:c:478:ASN:HB3	2.10	0.86
12:B:287:HIS:HE1	13:A:1008:HIS:N	1.72	0.86
4:R:673:MET:SD	3:S:835:LEU:CG	2.62	0.86
3:S:817:ILE:CG1	2:T:466:ASP:HB2	2.04	0.86
5:G:302:VAL:H	15:F:268:LEU:CD2	1.89	0.86
9:c:624:SER:CB	11:M:14:ASN:HA	2.06	0.86
11:O:463:ARG:NH2	11:Q:752:LEU:C	2.33	0.86
11:O:464:VAL:CG2	11:Q:704:GLU:O	2.24	0.86
12:B:157:LYS:HD2	13:A:524:ARG:CD	2.05	0.86
4:R:596:ARG:HH21	3:S:746:GLU:HB3	1.38	0.86
4:R:626:ARG:NH1	2:T:433:THR:OG1	2.08	0.86
3:S:782:ILE:HD13	2:T:432:LEU:CD1	2.04	0.86
5:g:289:LYS:NZ	15:f:631:TYR:CE2	2.39	0.86
6:L:1526:ASP:CG	9:C:92:LYS:HE2	1.99	0.86
6:L:1639:GLN:HB3	9:C:246:THR:HG21	1.55	0.86
6:L:1693:ILE:C	9:C:247:GLN:NE2	2.25	0.86
10:U:1362:GLN:HB3	13:a:1024:ARG:HG2	0.87	0.86
11:O:788:SER:O	11:Q:597:TYR:CD1	2.29	0.86
13:a:1170:ILE:CD1	15:f:903:TYR:OH	2.21	0.86
1:h:723:MET:HE1	11:P:333:VAL:HG22	1.57	0.86
7:e:2:PHE:HB3	9:c:57:VAL:CG1	2.05	0.86
7:e:322:ASP:HB2	9:c:15:GLY:H	1.31	0.86
9:c:641:LEU:HD23	13:a:1121:LEU:O	1.75	0.86
11:O:3:ARG:CZ	15:f:589:PRO:HG3	2.05	0.86
11:O:463:ARG:HG2	11:Q:710:LEU:HD12	1.57	0.86
11:O:662:LYS:CE	11:Q:595:LYS:HD3	2.06	0.86
11:O:781:SER:CB	11:Q:777:HIS:CG	2.58	0.86
4:R:491:PRO:C	2:T:377:LEU:O	2.17	0.86
5:g:279:SER:OG	15:f:265:GLY:N	2.08	0.86
5:G:270:SER:HA	15:F:255:TRP:CA	1.72	0.86
7:E:314:LYS:CB	9:C:4:LEU:H	1.88	0.86
8:d:189:VAL:HG11	9:c:519:LEU:HD13	1.58	0.86
9:c:256:TRP:HB3	4:R:461:LEU:CB	2.05	0.86
11:O:480:CYS:O	11:Q:705:GLU:OE2	1.92	0.86
11:O:791:LYS:CB	11:Q:454:ARG:NE	2.37	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:491:PRO:HB2	2:T:381:THR:HG21	0.95	0.86
4:R:592:LEU:HD13	3:S:743:LEU:HD12	1.54	0.86
5:G:24:TYR:HB2	15:F:735:ARG:HH12	0.69	0.86
5:G:287:LEU:HD21	15:F:261:LEU:HD21	1.56	0.86
6:L:1698:GLY:N	9:C:254:LEU:C	2.33	0.86
6:L:613:LEU:HB3	13:A:1247:ARG:CD	2.05	0.86
9:c:250:THR:CB	4:R:459:SER:O	2.23	0.86
11:O:582:HIS:CA	11:Q:792:SER:OG	2.20	0.86
11:O:596:GLU:HG2	11:Q:795:PHE:HE1	0.71	0.86
11:O:649:ALA:HB1	11:Q:788:SER:HB2	1.52	0.86
11:O:791:LYS:HG3	11:Q:597:TYR:HE2	1.39	0.86
8:d:146:GLU:HB2	9:c:480:ARG:NH1	1.89	0.86
10:U:1385:GLU:O	13:a:1150:GLY:C	2.11	0.86
11:O:781:SER:OG	11:Q:777:HIS:HA	1.76	0.86
11:O:783:THR:CB	11:Q:602:VAL:HG13	2.05	0.86
12:b:287:HIS:HE1	13:a:1008:HIS:N	1.72	0.86
3:S:824:VAL:CG2	2:T:473:ALA:CA	2.54	0.86
3:s:1739:ILE:CG1	4:r:552:LEU:CG	2.53	0.85
4:r:143:ARG:C	4:R:506:PRO:HD2	2.01	0.85
4:r:144:THR:O	4:R:505:LEU:CD2	2.24	0.85
5:g:24:TYR:HB2	15:f:735:ARG:HH12	0.70	0.85
5:G:271:ILE:HB	15:F:255:TRP:O	1.75	0.85
6:L:1244:MET:HE1	13:A:1284:TRP:HB2	1.55	0.85
9:c:256:TRP:CB	4:R:461:LEU:CD2	2.54	0.85
10:U:1211:PRO:HD3	12:b:57:THR:HA	1.58	0.85
11:O:790:SER:HB2	11:Q:454:ARG:CA	2.05	0.85
12:b:157:LYS:HD2	13:a:524:ARG:CD	2.05	0.85
4:R:555:ALA:HB1	3:S:712:GLU:CD	1.84	0.85
3:S:736:SER:C	3:S:738:GLU:H	1.84	0.85
4:r:145:ILE:HG22	4:R:510:ALA:HB2	1.57	0.85
6:l:617:GLU:HB3	13:a:1314:VAL:HG22	1.57	0.85
6:l:617:GLU:OE1	13:a:1250:GLN:HG3	1.75	0.85
9:c:392:PHE:HE2	9:c:394:ALA:HB3	1.35	0.85
9:c:638:ALA:CB	13:a:1128:ARG:HD3	2.05	0.85
11:O:463:ARG:CZ	11:Q:752:LEU:CB	2.31	0.85
11:O:656:LEU:HA	11:Q:793:ALA:HB3	1.58	0.85
1:h:223:GLN:HA	11:P:548:ALA:HB1	1.58	0.85
7:E:47:TRP:CG	9:C:54:MET:CB	2.57	0.85
7:E:148:MET:HE3	9:C:503:ARG:HH21	0.72	0.85
11:O:590:SER:O	11:Q:796:SER:CB	2.25	0.85
4:R:613:PHE:CE2	3:S:768:PHE:HA	2.12	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:367:ALA:CB	15:f:471:GLN:NE2	2.38	0.85
6:L:777:PRO:HG2	7:E:257:LEU:HB3	0.86	0.85
9:c:385:PHE:CE1	9:c:396:MET:CE	2.59	0.85
11:O:785:LEU:CD1	11:Q:651:ILE:HG22	2.05	0.85
4:R:609:LEU:CD1	2:T:415:ASP:CA	2.49	0.85
3:S:716:PHE:CE1	2:T:365:TRP:CE2	2.63	0.85
3:S:775:ASN:HD21	2:T:425:GLN:NE2	1.74	0.85
2:t:359:ASN:N	4:r:535:ASN:HA	1.91	0.85
2:t:375:PHE:CE2	3:s:1750:LEU:CD2	2.58	0.85
5:g:287:LEU:HD21	15:f:261:LEU:HD21	1.58	0.85
6:L:614:ALA:N	13:A:1247:ARG:HH22	1.70	0.85
6:l:173:PHE:CD2	10:U:1128:MET:HG2	2.10	0.85
7:E:7:ILE:CD1	9:C:34:LEU:O	2.24	0.85
8:D:9:PHE:CG	9:C:70:LYS:HE2	1.82	0.85
8:d:189:VAL:CG1	9:c:519:LEU:CD1	2.54	0.85
4:R:634:PHE:C	2:T:449:GLN:HG2	2.00	0.85
1:H:461:ILE:HA	11:N:27:MET:CE	2.06	0.85
1:h:226:LEU:HD11	11:P:548:ALA:H	1.34	0.85
5:g:26:ILE:HG12	15:f:735:ARG:HH22	0.68	0.85
5:G:285:VAL:CG2	15:F:266:ASP:O	2.23	0.85
6:L:465:GLU:CB	13:A:1197:SER:C	2.49	0.85
6:L:1247:ILE:CD1	13:A:1281:ASP:N	2.34	0.85
7:E:47:TRP:HB3	9:C:54:MET:CB	2.02	0.85
8:d:260:GLU:H	9:c:453:ARG:CZ	1.89	0.85
11:O:468:THR:OG1	11:Q:667:ILE:HD12	1.76	0.85
11:O:471:LEU:HG	11:Q:664:GLU:HB2	1.59	0.85
11:O:780:PRO:HB2	11:Q:656:LEU:HG	0.85	0.85
4:R:588:GLN:OE1	2:T:390:LEU:HG	1.76	0.85
4:R:666:ILE:CD1	3:S:828:VAL:HG23	2.05	0.85
4:R:666:ILE:HD11	2:T:476:LEU:HD11	1.58	0.85
7:E:91:GLY:CA	8:D:127:MET:CG	2.53	0.85
9:c:320:THR:HG22	4:R:127:TRP:O	1.76	0.85
9:c:622:ASP:C	11:M:17:ASN:ND2	2.35	0.85
11:O:475:ILE:CD1	11:Q:767:HIS:HB3	2.07	0.85
11:O:792:SER:N	11:Q:588:LEU:HD21	1.89	0.85
4:R:584:GLN:HG2	2:T:390:LEU:CD2	2.05	0.85
3:S:709:ILE:CG2	2:T:358:LEU:HD21	2.05	0.85
1:H:234:ILE:HD11	11:N:34:ARG:HH12	1.40	0.85
1:H:719:GLU:HG2	11:Q:10:ARG:HB3	1.54	0.85
1:H:720:GLU:CD	11:Q:7:GLU:OE1	2.18	0.85
7:e:7:ILE:HG21	9:c:54:MET:CE	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C:645:ILE:HD13	13:A:1122:ALA:HB2	0.85	0.85
11:O:468:THR:OG1	11:Q:667:ILE:CD1	2.24	0.85
11:O:778:SER:N	11:Q:780:PRO:HG3	1.90	0.85
12:B:219:ARG:CD	13:A:917:GLY:O	2.12	0.85
4:R:588:GLN:OE1	2:T:390:LEU:CG	2.24	0.85
4:r:95:LEU:C	4:R:519:HIS:CD2	2.54	0.85
6:L:696:GLU:CD	8:d:321:LEU:CD1	2.48	0.85
6:L:696:GLU:OE1	8:d:321:LEU:HD12	1.76	0.85
7:E:309:TYR:CB	9:C:390:LEU:HD13	2.06	0.85
7:E:318:VAL:O	9:C:10:GLU:CA	2.24	0.85
7:e:7:ILE:HB	9:c:54:MET:CA	2.06	0.85
11:O:437:LEU:CD2	11:Q:699:PRO:CB	2.48	0.85
4:R:613:PHE:HB2	3:S:768:PHE:CE1	2.11	0.85
1:h:321:ARG:HD2	15:f:461:GLY:HA3	1.57	0.85
6:L:777:PRO:CB	7:E:257:LEU:O	2.13	0.85
7:E:231:LEU:HD11	9:C:435:LEU:HD22	1.57	0.85
2:T:443:SER:OG	2:T:449:GLN:NE2	2.09	0.85
5:g:292:VAL:HG12	15:f:616:CYS:HB3	1.59	0.84
7:E:91:GLY:HA2	8:D:127:MET:CG	2.07	0.84
8:D:13:LYS:CE	9:C:413:SER:CB	2.49	0.84
9:c:257:GLN:NE2	4:R:463:LEU:N	2.25	0.84
4:R:581:LEU:CD1	2:T:383:VAL:CG1	2.53	0.84
3:S:821:ASN:HB2	2:T:469:LEU:HD22	1.53	0.84
1:H:159:SER:OG	11:N:475:ILE:HG21	1.76	0.84
6:l:786:GLU:O	7:e:258:SER:HB2	1.77	0.84
9:c:638:ALA:CB	13:a:1128:ARG:HD2	2.07	0.84
11:O:465:PRO:HB3	11:Q:686:TYR:HA	1.59	0.84
11:O:594:GLN:CG	11:Q:796:SER:HB2	2.06	0.84
1:h:321:ARG:CZ	15:f:461:GLY:O	2.25	0.84
7:E:294:ALA:CB	9:C:27:TRP:CZ2	2.60	0.84
6:L:468:GLN:HG2	13:A:1196:PRO:HD2	1.59	0.84
6:L:617:GLU:CG	13:A:1312:HIS:CE1	2.60	0.84
6:L:1639:GLN:CA	9:C:246:THR:HG21	2.07	0.84
6:l:1201:PHE:HD1	13:a:1275:LYS:HZ1	1.23	0.84
7:E:148:MET:HE1	9:C:503:ARG:NH2	1.90	0.84
10:U:1307:ARG:HH22	13:a:1001:LYS:HD3	1.02	0.84
11:O:470:ARG:CZ	11:Q:671:GLU:CB	2.40	0.84
11:O:791:LYS:C	11:Q:588:LEU:HD21	1.98	0.84
13:a:1169:GLN:HG2	15:f:855:GLU:OE2	1.78	0.84
5:G:279:SER:OG	15:F:265:GLY:N	2.11	0.84
6:L:655:GLU:OE1	13:A:1250:GLN:C	2.11	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:279:GLU:OE1	9:c:283:ARG:NH2	2.10	0.84
11:O:786:THR:C	11:Q:578:ALA:O	2.21	0.84
12:b:219:ARG:HD2	13:a:917:GLY:HA3	1.54	0.84
13:A:1170:ILE:CD1	15:F:903:TYR:OH	2.23	0.84
4:R:594:TYR:CE1	2:T:401:HIS:NE2	2.23	0.84
4:R:627:LEU:HD13	3:S:782:ILE:HD11	1.59	0.84
1:H:716:SER:O	11:Q:7:GLU:HG2	1.77	0.84
5:g:79:TYR:OH	13:a:1376:LEU:HD21	1.76	0.84
5:G:79:TYR:OH	13:A:1376:LEU:HD21	1.76	0.84
6:L:659:SER:HB2	13:A:1313:GLY:HA3	1.54	0.84
6:l:786:GLU:O	7:e:258:SER:CB	2.24	0.84
6:l:1246:ALA:HA	13:a:1275:LYS:CB	2.00	0.84
10:U:1388:SER:O	13:a:1148:ARG:NH1	0.71	0.84
11:O:463:ARG:NH2	11:Q:752:LEU:CA	2.38	0.84
4:R:535:ASN:OD1	3:S:706:LEU:HD21	1.78	0.84
5:G:292:VAL:HG12	15:F:616:CYS:HB3	1.59	0.84
6:l:1247:ILE:H	13:a:1276:GLU:HA	1.41	0.84
7:e:91:GLY:HA2	8:d:127:MET:CG	2.07	0.84
11:O:3:ARG:NH2	15:f:568:PRO:HG3	1.91	0.84
11:M:35:LEU:HD21	15:F:436:ARG:CG	2.08	0.84
11:O:776:LYS:CB	11:Q:780:PRO:CA	2.55	0.84
4:R:588:GLN:NE2	2:T:390:LEU:CG	2.39	0.84
1:H:131:VAL:HG22	11:Q:618:LYS:NZ	1.91	0.84
8:D:11:SER:HB3	9:C:66:PRO:HA	1.58	0.84
11:O:463:ARG:CA	11:Q:710:LEU:HB2	2.08	0.84
11:O:651:ILE:HB	11:Q:789:PRO:HB3	1.59	0.84
5:g:292:VAL:HG11	15:f:616:CYS:O	1.78	0.84
8:D:146:GLU:O	9:C:480:ARG:HD3	1.78	0.84
9:c:606:MET:HE1	9:c:634:ARG:NH2	1.93	0.84
11:O:465:PRO:HB2	11:Q:689:LYS:HB2	0.91	0.84
2:t:363:LYS:CD	3:s:1740:ARG:CZ	2.52	0.83
7:e:92:GLU:OE1	8:d:121:TYR:CG	2.31	0.83
7:e:148:MET:HE3	9:c:503:ARG:NH2	1.92	0.83
9:C:645:ILE:HG21	13:A:1122:ALA:HB2	1.57	0.83
9:c:599:MET:HE1	13:a:1121:LEU:HD11	1.33	0.83
7:E:32:SER:C	9:C:41:LYS:CD	2.30	0.83
7:e:4:ALA:N	9:c:13:ILE:HD12	1.92	0.83
9:C:596:TYR:CG	13:A:1121:LEU:HD13	2.11	0.83
10:U:1359:VAL:HG21	13:a:1027:ASP:C	2.02	0.83
4:R:1:MET:HE2	2:T:374:LYS:CE	2.08	0.83
4:R:666:ILE:CG1	3:S:828:VAL:HG11	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:146:PRO:CA	4:R:510:ALA:HA	2.06	0.83
6:L:465:GLU:HA	13:A:1197:SER:O	1.78	0.83
6:L:1244:MET:CE	13:A:1281:ASP:O	2.25	0.83
6:l:617:GLU:OE1	13:a:1250:GLN:CG	2.26	0.83
7:E:312:ASN:HB2	9:C:1:MET:H3	1.43	0.83
7:e:282:TRP:CD1	9:c:39:TYR:HD2	1.93	0.83
11:O:594:GLN:C	11:Q:794:ARG:O	2.06	0.83
4:r:120:VAL:O	4:R:506:PRO:O	1.94	0.83
8:d:279:GLU:HB3	9:c:453:ARG:HH12	0.67	0.83
10:U:1313:ARG:NH2	13:a:795:GLN:HB2	1.93	0.83
11:O:455:LYS:CA	11:Q:695:ASN:CB	2.55	0.83
12:b:155:ASP:OD1	13:a:523:PHE:CD1	2.31	0.83
2:t:367:GLU:HB3	3:s:1743:ILE:CG2	2.08	0.83
4:r:145:ILE:HG13	4:R:506:PRO:O	1.77	0.83
6:L:1695:LEU:CG	9:C:247:GLN:NE2	2.26	0.83
9:c:645:ILE:CG2	13:a:1122:ALA:HB2	2.07	0.83
10:U:1307:ARG:HH22	13:a:1001:LYS:CD	1.67	0.83
11:O:605:TRP:CD1	11:Q:791:LYS:HG3	2.13	0.83
3:S:744:ARG:HH22	2:T:389:THR:HG23	1.40	0.83
1:H:119:SER:HB3	11:M:727:TYR:CE1	2.14	0.83
1:h:226:LEU:HD12	11:P:548:ALA:HB3	1.59	0.83
5:g:304:LYS:CG	15:f:267:LYS:H	1.90	0.83
6:L:777:PRO:CD	7:E:257:LEU:HB3	2.08	0.83
7:E:10:ASP:HA	9:C:49:ALA:O	1.68	0.83
9:c:622:ASP:C	11:M:17:ASN:HD21	1.85	0.83
2:t:378:GLN:HB2	3:s:1754:LYS:HG2	1.58	0.83
4:r:145:ILE:HG13	4:R:506:PRO:N	1.93	0.83
6:L:1695:LEU:CA	9:C:252:PHE:CA	2.14	0.83
7:E:20:PHE:HE2	9:C:26:SER:H	1.26	0.83
4:R:662:LEU:HD22	3:S:825:LYS:HG3	0.84	0.83
4:R:666:ILE:CG1	3:S:828:VAL:CG1	2.53	0.83
6:L:1522:LYS:CB	9:C:92:LYS:CB	2.54	0.83
6:L:1525:VAL:HB	9:C:92:LYS:HZ2	1.42	0.83
6:l:470:THR:HG21	13:a:1194:HIS:CE1	2.13	0.83
7:E:148:MET:HG2	9:C:499:LEU:HD21	1.29	0.83
11:O:609:LEU:HD21	11:Q:788:SER:CB	2.07	0.83
13:A:1169:GLN:CD	15:F:855:GLU:CD	2.47	0.83
4:R:602:LEU:CD2	3:S:757:ILE:HG21	2.08	0.83
2:t:356:GLN:HB2	4:r:543:PRO:HD3	1.61	0.83
4:r:122:GLU:N	4:R:506:PRO:CB	2.41	0.83
6:L:743:ARG:HH21	8:d:24:ALA:HB1	1.44	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:250:THR:O	4:R:459:SER:O	1.97	0.83
11:O:455:LYS:C	11:Q:698:LEU:CD2	2.52	0.83
13:a:1169:GLN:CD	15:f:855:GLU:CD	2.46	0.83
13:a:1172:ILE:HD13	15:f:902:ASP:N	1.83	0.83
4:R:627:LEU:CG	2:T:432:LEU:HD13	2.08	0.83
4:R:634:PHE:O	2:T:449:GLN:HA	1.79	0.83
2:t:357:LEU:HD11	4:r:543:PRO:HB2	0.83	0.83
5:g:293:ASP:N	15:f:653:ARG:NH2	2.26	0.83
6:l:470:THR:O	13:a:1261:GLU:OE1	1.95	0.83
7:E:311:ASP:CA	9:C:392:PHE:CZ	2.62	0.83
11:O:463:ARG:HA	11:Q:710:LEU:CB	2.09	0.83
4:R:620:GLN:HB2	2:T:425:GLN:CD	2.04	0.83
5:g:279:SER:CB	15:f:265:GLY:CA	2.56	0.82
6:L:1247:ILE:HG22	13:A:1279:ALA:N	1.94	0.82
6:l:1243:GLY:O	13:a:1276:GLU:HA	1.78	0.82
7:E:92:GLU:OE1	8:D:121:TYR:CG	2.31	0.82
9:C:596:TYR:CE2	13:A:1121:LEU:CD2	2.55	0.82
4:R:676:GLN:CD	3:S:839:TRP:CE3	2.56	0.82
1:H:131:VAL:HG21	11:Q:618:LYS:HZ2	1.43	0.82
3:s:1739:ILE:HG12	4:r:552:LEU:CG	2.09	0.82
9:c:256:TRP:CB	4:R:461:LEU:HD13	2.08	0.82
9:c:642:ALA:N	13:a:1125:ASN:ND2	2.17	0.82
11:O:466:GLN:CB	11:Q:692:GLU:CB	2.13	0.82
3:S:821:ASN:CB	2:T:469:LEU:CD2	2.56	0.82
1:h:226:LEU:CD2	11:P:549:LYS:HB3	2.08	0.82
4:r:119:MET:HG3	4:R:509:LEU:O	1.80	0.82
4:r:119:MET:HG3	4:R:509:LEU:CB	2.08	0.82
5:g:285:VAL:CB	15:f:266:ASP:O	2.27	0.82
7:E:47:TRP:CD1	9:C:54:MET:C	2.56	0.82
8:d:279:GLU:CG	9:c:453:ARG:HH11	1.90	0.82
9:C:642:ALA:HB2	13:A:1125:ASN:HB3	1.59	0.82
9:c:638:ALA:HB2	13:a:1128:ARG:HD2	1.61	0.82
11:O:464:VAL:HG22	11:Q:708:GLU:CB	2.09	0.82
4:R:526:ARG:HG2	4:R:562:GLU:OE2	1.80	0.82
1:h:892:LEU:HD21	14:i:960:LEU:CD2	2.09	0.82
6:L:614:ALA:CA	13:A:1247:ARG:HH22	1.89	0.82
6:L:777:PRO:CB	7:E:258:SER:HA	1.99	0.82
9:c:416:GLN:NE2	9:c:450:LYS:HZ1	1.67	0.82
11:O:454:ARG:HH21	11:Q:692:GLU:HA	1.41	0.82
11:O:462:PRO:HD3	11:Q:703:GLN:HG3	1.59	0.82
11:O:780:PRO:CG	11:Q:656:LEU:C	2.51	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:635:HIS:CE1	2:T:451:ALA:O	2.30	0.82
2:t:378:GLN:CD	3:s:1754:LYS:HB2	2.04	0.82
6:L:1253:LEU:CG	13:A:1275:LYS:O	2.27	0.82
6:L:1695:LEU:CA	9:C:247:GLN:NE2	2.41	0.82
7:E:20:PHE:HE2	9:C:26:SER:N	1.74	0.82
7:e:282:TRP:CE2	9:c:39:TYR:CB	2.62	0.82
10:U:1359:VAL:CG2	13:a:1027:ASP:HB3	2.09	0.82
1:h:723:MET:CE	11:P:333:VAL:CG2	2.57	0.82
5:g:302:VAL:H	15:f:268:LEU:CD2	1.92	0.82
7:E:47:TRP:CH2	9:C:33:LEU:CD1	2.61	0.82
8:D:260:GLU:N	9:C:453:ARG:HH22	1.70	0.82
8:d:11:SER:HA	9:c:69:ARG:NE	1.95	0.82
9:C:638:ALA:HB2	13:A:1128:ARG:HD3	1.61	0.82
11:O:463:ARG:N	11:Q:707:GLN:CA	2.39	0.82
11:O:781:SER:C	11:Q:657:ASP:CG	2.45	0.82
7:E:69:GLU:CD	9:C:469:LYS:HD3	2.04	0.82
7:e:321:GLY:H	9:c:16:LEU:HD23	1.43	0.82
11:O:462:PRO:HD2	11:Q:707:GLN:CG	2.08	0.82
11:O:595:LYS:HZ1	11:Q:591:PHE:HE2	1.20	0.82
12:b:287:HIS:CE1	13:a:1007:GLY:CA	2.59	0.82
4:R:574:ILE:CD1	2:T:376:PHE:HE2	1.93	0.82
6:L:1251:PRO:HG2	13:A:1260:TRP:NE1	1.94	0.82
11:O:14:ASN:HB2	15:f:584:SER:CA	2.08	0.82
11:O:651:ILE:HB	11:Q:789:PRO:HB2	1.61	0.82
11:M:31:LEU:CD1	15:F:436:ARG:CD	2.36	0.82
12:B:219:ARG:CZ	13:A:917:GLY:HA2	2.10	0.82
13:A:1055:ASN:HD22	15:F:917:ARG:HH21	1.27	0.82
4:R:477:ILE:HD13	2:T:359:GLU:CG	2.10	0.82
4:R:544:PRO:HG2	3:S:701:GLU:CG	2.10	0.82
4:R:599:ARG:NH1	3:S:753:PHE:CG	2.47	0.82
4:R:666:ILE:HD11	3:S:828:VAL:HG23	1.59	0.82
2:t:382:VAL:CA	3:s:1758:SER:HA	2.10	0.82
5:G:292:VAL:HG11	15:F:616:CYS:O	1.80	0.82
7:E:5:ARG:HB3	9:C:55:TYR:HB3	0.86	0.82
7:E:10:ASP:C	9:C:49:ALA:O	2.21	0.82
11:O:468:THR:C	11:Q:663:THR:HB	2.04	0.82
13:a:1055:ASN:HD22	15:f:917:ARG:HH21	1.26	0.82
4:R:578:VAL:HG21	3:S:732:PHE:CA	2.10	0.82
4:R:613:PHE:CG	3:S:768:PHE:CE1	2.67	0.82
7:E:16:HIS:CE1	9:C:39:TYR:CD1	2.51	0.82
7:E:312:ASN:HD22	9:C:1:MET:CA	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:780:PRO:HB3	11:Q:656:LEU:CG	2.01	0.82
1:h:223:GLN:CA	11:P:548:ALA:HB3	2.08	0.81
2:t:382:VAL:HG22	3:s:1758:SER:CB	2.09	0.81
5:g:285:VAL:HG11	15:f:263:HIS:CG	2.15	0.81
10:U:1385:GLU:CA	13:a:1150:GLY:HA3	2.10	0.81
11:O:2:ARG:O	15:f:567:GLU:OE1	1.98	0.81
11:O:437:LEU:HD21	11:Q:699:PRO:CA	2.10	0.81
13:A:1172:ILE:HD11	15:F:904:ALA:N	1.86	0.81
4:R:602:LEU:HD13	2:T:408:LYS:HG3	1.61	0.81
6:L:679:ARG:NH2	8:d:85:ASP:OD2	2.13	0.81
6:l:613:LEU:O	13:a:1250:GLN:NE2	2.05	0.81
8:d:9:PHE:CZ	9:c:70:LYS:HA	2.15	0.81
9:c:625:ILE:H	11:M:17:ASN:CB	1.91	0.81
11:O:790:SER:HB2	11:Q:454:ARG:HB2	0.82	0.81
2:t:357:LEU:H	4:r:543:PRO:HG3	1.44	0.81
4:r:119:MET:CG	4:R:509:LEU:CB	2.58	0.81
6:L:613:LEU:HD13	13:A:1247:ARG:CB	2.10	0.81
6:l:619:ALA:CB	13:a:1310:LEU:O	2.28	0.81
8:D:13:LYS:NZ	9:C:413:SER:HA	1.95	0.81
11:O:463:ARG:HG2	11:Q:710:LEU:HB2	1.60	0.81
12:B:155:ASP:OD1	13:A:523:PHE:CD1	2.31	0.81
12:b:88:ALA:HB1	13:a:499:LYS:HZ3	1.43	0.81
4:R:489:SER:HB3	2:T:377:LEU:HD23	1.58	0.81
3:S:725:ALA:O	3:S:729:ARG:N	2.13	0.81
4:r:122:GLU:N	4:R:506:PRO:HB3	1.95	0.81
5:G:285:VAL:HG11	15:F:263:HIS:CG	2.14	0.81
6:L:778:GLU:CG	7:E:260:SER:N	2.41	0.81
12:b:219:ARG:CZ	13:a:917:GLY:HA2	2.10	0.81
13:A:1172:ILE:CD1	15:F:902:ASP:N	2.35	0.81
1:H:160:SER:OG	11:N:475:ILE:HG12	1.80	0.81
6:L:673:VAL:HG11	13:A:1397:ASN:CB	2.10	0.81
7:e:6:SER:HB2	9:c:55:TYR:OH	1.79	0.81
7:e:148:MET:HE1	9:c:476:LEU:CD2	2.10	0.81
11:O:457:LEU:H	11:Q:699:PRO:HD2	1.42	0.81
4:R:493:LEU:HD12	2:T:383:VAL:HG23	1.63	0.81
6:l:470:THR:HB	13:a:1261:GLU:OE1	1.80	0.81
11:O:15:ALA:HA	15:f:583:ILE:CA	2.02	0.81
11:O:605:TRP:N	11:Q:791:LYS:CE	2.31	0.81
11:O:673:VAL:HG22	11:Q:787:ILE:HD13	1.62	0.81
12:b:221:THR:HG22	13:a:918:GLU:CD	2.05	0.81
13:A:1169:GLN:HG2	15:F:855:GLU:OE2	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:831:VAL:HG21	2:T:480:ILE:HG13	1.61	0.81
2:t:362:ASN:CA	4:r:533:LEU:CB	2.49	0.81
5:G:292:VAL:HG12	15:F:616:CYS:CA	2.11	0.81
7:e:2:PHE:O	9:c:11:THR:CG2	2.29	0.81
7:e:7:ILE:C	9:c:54:MET:H	1.65	0.81
9:c:621:GLN:CA	11:M:10:ARG:O	2.28	0.81
4:R:365:THR:HG22	4:R:550:GLN:OE1	1.79	0.81
4:r:109:HIS:NE2	4:R:507:HIS:HD2	1.78	0.81
5:G:292:VAL:CG1	15:F:616:CYS:HA	2.11	0.81
6:L:465:GLU:CB	13:A:1197:SER:O	2.29	0.81
6:L:1695:LEU:H	9:C:247:GLN:HE22	0.83	0.81
8:d:279:GLU:OE1	9:c:450:LYS:HE3	1.81	0.81
9:c:619:GLN:HG3	11:M:10:ARG:HD2	1.61	0.81
11:O:461:PHE:CB	11:Q:702:GLU:C	2.50	0.81
11:O:786:THR:HG23	11:Q:605:TRP:HE1	1.00	0.81
4:R:477:ILE:HG21	2:T:359:GLU:CG	2.09	0.81
4:R:673:MET:HG3	3:S:835:LEU:HD11	1.29	0.81
4:r:145:ILE:HD12	4:R:506:PRO:C	2.05	0.81
7:E:312:ASN:CG	9:C:1:MET:N	2.38	0.81
12:B:90:LEU:HD13	13:A:503:LEU:HD12	1.62	0.81
12:B:221:THR:HG22	13:A:918:GLU:CD	2.06	0.81
12:b:90:LEU:HD13	13:a:503:LEU:HD12	1.62	0.81
4:R:670:ASN:ND2	2:T:479:VAL:CG2	2.40	0.81
1:H:461:ILE:HG23	11:N:27:MET:HB3	0.82	0.81
3:s:1728:VAL:HG12	4:r:543:PRO:C	2.04	0.81
5:G:292:VAL:N	15:F:653:ARG:HH12	1.77	0.81
6:L:1518:SER:O	9:C:93:SER:HB2	1.80	0.81
6:l:470:THR:OG1	13:a:1194:HIS:CE1	2.33	0.81
7:e:7:ILE:CG1	9:c:54:MET:O	2.26	0.81
11:O:465:PRO:HB2	11:Q:689:LYS:CD	2.10	0.81
4:R:599:ARG:NH1	3:S:753:PHE:CZ	2.49	0.81
4:r:95:LEU:HD13	4:R:519:HIS:HB3	1.62	0.80
9:C:565:ARG:HH12	13:A:1221:ASP:CG	1.89	0.80
9:c:174:GLU:OE2	9:c:300:THR:CG2	2.27	0.80
9:c:653:GLU:HA	13:a:1074:ASN:HD22	1.46	0.80
10:U:1363:SER:HA	13:a:994:ALA:HA	1.62	0.80
4:R:490:PRO:C	2:T:377:LEU:C	2.46	0.80
4:R:585:LYS:NZ	3:S:739:GLU:OE1	2.09	0.80
4:R:656:ASN:CG	2:T:465:ILE:HG12	2.06	0.80
4:R:659:LEU:HD23	3:S:821:ASN:OD1	1.81	0.80
3:S:817:ILE:HG12	2:T:466:ASP:HB2	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:316:PRO:CD	15:f:464:ARG:CG	2.51	0.80
3:s:1728:VAL:HG13	4:r:543:PRO:C	2.06	0.80
6:L:1200:ASP:CB	13:A:1275:LYS:HZ2	1.81	0.80
9:c:166:GLU:OE1	9:c:169:ARG:NH2	2.12	0.80
9:c:532:ARG:HH12	9:c:568:PRO:CG	1.94	0.80
10:U:1386:ARG:HD3	13:a:1152:SER:CA	2.10	0.80
10:U:1386:ARG:CG	13:a:1152:SER:N	2.43	0.80
11:O:460:ILE:HG22	11:Q:703:GLN:HB3	1.62	0.80
11:O:470:ARG:CZ	11:Q:671:GLU:CG	2.59	0.80
1:H:465:GLU:CG	11:N:23:ARG:CZ	2.59	0.80
2:t:378:GLN:HB2	3:s:1754:LYS:CE	2.11	0.80
2:t:378:GLN:CD	3:s:1754:LYS:CB	2.52	0.80
4:r:119:MET:HA	4:R:509:LEU:C	2.07	0.80
5:G:2:VAL:HG23	15:F:309:LEU:HD11	1.63	0.80
8:D:11:SER:OG	9:C:66:PRO:O	1.99	0.80
11:O:463:ARG:HG2	11:Q:710:LEU:CD1	2.11	0.80
11:O:464:VAL:O	11:Q:693:ILE:HD12	1.81	0.80
4:R:494:CYS:N	2:T:383:VAL:C	2.15	0.80
4:r:145:ILE:HG13	4:R:506:PRO:C	2.06	0.80
6:L:468:GLN:HG3	13:A:1196:PRO:HD2	1.63	0.80
6:L:1248:GLY:H	13:A:1277:SER:CB	1.93	0.80
6:l:1246:ALA:H	13:a:1276:GLU:CG	1.95	0.80
7:E:12:LYS:HG2	9:C:48:ALA:C	1.86	0.80
7:e:2:PHE:O	9:c:11:THR:HG21	1.81	0.80
7:e:7:ILE:H	9:c:54:MET:CA	1.94	0.80
7:e:18:VAL:HG21	9:c:35:TYR:CE1	2.10	0.80
9:C:641:LEU:HD22	13:A:1121:LEU:HD11	1.60	0.80
9:c:621:GLN:H	11:M:10:ARG:CA	1.95	0.80
11:O:468:THR:OG1	11:Q:664:GLU:OE2	1.98	0.80
11:O:783:THR:OG1	11:Q:602:VAL:HG11	1.80	0.80
4:R:501:SER:HB2	2:T:392:GLN:NE2	1.96	0.80
8:d:9:PHE:CE1	9:c:70:LYS:N	2.49	0.80
9:c:621:GLN:NE2	11:M:15:ALA:HB3	1.95	0.80
10:U:1362:GLN:NE2	13:a:1027:ASP:OD2	2.13	0.80
11:O:609:LEU:HD21	11:Q:788:SER:HB3	1.61	0.80
3:s:1728:VAL:CG1	4:r:543:PRO:CA	2.53	0.80
7:E:13:ASP:CA	9:C:38:LEU:HD13	2.10	0.80
7:e:148:MET:SD	9:c:499:LEU:HD21	2.21	0.80
11:O:594:GLN:O	11:Q:793:ALA:O	2.00	0.80
7:E:18:VAL:HG21	9:C:24:GLY:HA3	1.63	0.80
11:O:460:ILE:CB	11:Q:700:ALA:HA	1.77	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:656:LEU:HD13	11:Q:793:ALA:CB	2.10	0.80
11:O:673:VAL:HG22	11:Q:787:ILE:HG21	0.80	0.80
12:B:287:HIS:CE1	13:A:1007:GLY:CA	2.59	0.80
1:h:723:MET:CE	11:P:333:VAL:HA	2.12	0.80
3:s:1739:ILE:HG13	4:r:552:LEU:CG	2.12	0.80
6:L:1695:LEU:CB	9:C:247:GLN:NE2	2.44	0.80
6:l:51:ILE:HG21	10:U:1086:ARG:HH22	1.44	0.80
7:E:2:PHE:HB2	9:C:11:THR:HB	1.60	0.80
8:D:260:GLU:H	9:C:453:ARG:CZ	1.94	0.80
8:d:13:LYS:CE	9:c:413:SER:CA	2.59	0.80
11:O:662:LYS:CE	11:Q:595:LYS:CD	2.60	0.80
11:O:662:LYS:HE3	11:Q:595:LYS:HD3	1.64	0.80
11:O:673:VAL:HG21	11:Q:787:ILE:CG2	1.97	0.80
11:O:772:THR:CA	11:Q:784:LYS:HG2	2.12	0.80
2:t:364:TRP:CG	3:s:1743:ILE:HD12	2.16	0.80
6:L:1244:MET:O	13:A:1277:SER:HB2	1.82	0.80
7:E:12:LYS:N	9:C:38:LEU:HD12	1.96	0.80
7:e:296:SER:HB3	9:c:25:PHE:CD1	2.17	0.80
9:C:207:MET:HE3	9:C:238:MET:SD	2.22	0.80
9:c:517:LEU:HD22	9:c:540:ARG:NH1	1.96	0.80
11:O:465:PRO:CA	11:Q:689:LYS:HB2	2.01	0.80
11:O:600:ARG:HB3	11:Q:794:ARG:HD2	1.62	0.80
11:O:605:TRP:H	11:Q:791:LYS:HE3	1.00	0.80
4:R:535:ASN:HB3	2:T:357:GLN:OE1	1.81	0.80
4:R:651:GLU:CG	3:S:818:ARG:NH2	2.44	0.80
4:R:659:LEU:CD2	3:S:821:ASN:OD1	2.29	0.80
1:H:488:GLN:O	15:f:790:LYS:CG	2.30	0.80
2:t:356:GLN:C	3:s:1736:LEU:HD11	2.06	0.80
2:t:363:LYS:HD3	3:s:1740:ARG:HE	0.98	0.80
2:t:372:GLU:HG3	4:r:526:ARG:NH2	1.97	0.80
4:r:95:LEU:CB	4:R:519:HIS:CD2	2.65	0.80
4:r:122:GLU:CD	4:R:506:PRO:CA	2.42	0.80
6:l:466:PRO:HG3	13:a:1213:LEU:HD22	1.62	0.80
7:e:282:TRP:CD2	9:c:39:TYR:CG	2.69	0.80
8:d:11:SER:CB	9:c:66:PRO:HB3	2.12	0.80
9:c:256:TRP:HB3	4:R:461:LEU:HD22	1.61	0.80
11:O:458:LYS:NZ	11:Q:691:GLU:C	2.40	0.80
11:O:460:ILE:HA	11:Q:703:GLN:OE1	1.38	0.80
13:a:1172:ILE:CD1	15:f:902:ASP:N	2.35	0.80
5:G:26:ILE:HG12	15:F:735:ARG:HH22	0.67	0.79
6:L:673:VAL:CG2	13:A:1397:ASN:ND2	2.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:e:282:TRP:CB	9:c:39:TYR:CE2	2.66	0.79
8:D:122:HIS:ND1	9:C:480:ARG:HG3	1.96	0.79
9:c:254:LEU:HG	4:R:459:SER:C	2.07	0.79
11:O:662:LYS:CG	11:Q:592:TYR:HD1	1.91	0.79
4:R:673:MET:CE	2:T:483:LEU:HD12	2.12	0.79
3:S:768:PHE:HD2	2:T:414:LEU:HD11	1.44	0.79
1:H:119:SER:CB	11:M:727:TYR:CE1	2.65	0.79
5:g:279:SER:HB3	15:f:265:GLY:HA2	1.63	0.79
8:d:211:THR:HG23	8:d:249:MET:HE2	1.65	0.79
1:H:461:ILE:O	11:N:27:MET:HG3	1.81	0.79
5:G:292:VAL:N	15:F:653:ARG:NH1	2.30	0.79
4:R:544:PRO:HG3	3:S:701:GLU:HA	0.79	0.79
3:s:1728:VAL:HG12	4:r:542:SER:O	1.82	0.79
5:g:292:VAL:CG1	15:f:616:CYS:HA	2.12	0.79
6:L:1700:MET:C	9:C:254:LEU:CD1	2.50	0.79
7:E:92:GLU:OE1	8:D:121:TYR:CB	2.30	0.79
7:E:294:ALA:HB2	9:C:27:TRP:HZ2	1.47	0.79
7:e:92:GLU:OE1	8:d:121:TYR:CB	2.30	0.79
9:C:645:ILE:HG21	13:A:1122:ALA:HB1	1.62	0.79
9:c:320:THR:HG22	4:R:128:GLY:C	2.08	0.79
11:O:458:LYS:CA	11:Q:693:ILE:HG22	2.11	0.79
11:O:466:GLN:CB	11:Q:689:LYS:O	2.17	0.79
5:g:292:VAL:HG12	15:f:616:CYS:CB	2.12	0.79
5:g:292:VAL:N	15:f:653:ARG:HH12	1.79	0.79
5:G:293:ASP:N	15:F:653:ARG:NH2	2.24	0.79
6:L:617:GLU:CG	13:A:1312:HIS:NE2	2.43	0.79
7:E:148:MET:HE1	9:C:503:ARG:CZ	2.11	0.79
7:E:314:LYS:CG	9:C:3:GLU:CA	2.33	0.79
11:O:463:ARG:HG2	11:Q:710:LEU:CB	2.12	0.79
11:O:470:ARG:HB3	11:Q:668:ILE:CG1	2.12	0.79
11:O:775:ILE:CD1	11:Q:785:LEU:HG	2.10	0.79
4:R:543:PRO:HB3	3:S:702:SER:O	1.81	0.79
2:t:366:LEU:CG	4:r:532:LEU:CD1	2.61	0.79
5:G:271:ILE:HD13	15:F:697:ARG:CZ	2.13	0.79
6:L:1248:GLY:H	13:A:1277:SER:HB2	1.45	0.79
7:E:294:ALA:CB	9:C:27:TRP:HZ2	1.95	0.79
12:B:264:GLU:OE2	13:A:973:LEU:HD21	0.99	0.79
1:H:720:GLU:CD	11:Q:7:GLU:CD	2.50	0.79
4:r:145:ILE:CD1	4:R:506:PRO:C	2.56	0.79
6:L:1696:ASN:HB3	9:C:253:GLU:O	1.82	0.79
6:l:1245:ALA:CB	13:a:1274:THR:C	2.52	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:15:ILE:O	9:C:39:TYR:HB2	1.82	0.79
7:E:47:TRP:HH2	9:C:33:LEU:HD11	1.45	0.79
7:E:309:TYR:HB2	9:C:390:LEU:CB	2.12	0.79
10:U:1211:PRO:HD3	12:b:57:THR:HG22	1.49	0.79
11:O:791:LYS:N	11:Q:588:LEU:HD11	1.81	0.79
13:a:1167:SER:CB	15:f:859:ARG:CZ	2.61	0.79
13:a:1248:LEU:HD21	13:a:1259:ALA:HB2	1.65	0.79
4:R:588:GLN:HE22	2:T:390:LEU:CD2	1.90	0.79
4:R:627:LEU:CD1	2:T:432:LEU:CD1	2.60	0.79
5:G:292:VAL:HG12	15:F:616:CYS:CB	2.11	0.79
5:G:304:LYS:HG3	15:F:267:LYS:N	1.97	0.79
8:D:211:THR:HG23	8:D:249:MET:HE2	1.65	0.79
9:c:253:GLU:O	4:R:461:LEU:HD23	1.75	0.79
11:O:466:GLN:HG2	11:Q:692:GLU:OE2	1.82	0.79
4:R:578:VAL:HG21	3:S:732:PHE:CB	2.13	0.79
6:L:1698:GLY:N	9:C:254:LEU:CA	2.45	0.79
7:E:312:ASN:CB	9:C:1:MET:H3	1.94	0.79
9:c:256:TRP:HB2	4:R:461:LEU:CD1	2.12	0.79
11:O:651:ILE:CB	11:Q:789:PRO:HB3	2.13	0.79
11:O:784:LYS:CE	11:Q:647:ASP:C	2.55	0.79
11:O:785:LEU:CA	11:Q:582:HIS:CE1	2.47	0.79
1:H:465:GLU:CG	11:N:23:ARG:HH22	1.96	0.79
5:G:285:VAL:CB	15:F:266:ASP:O	2.31	0.79
6:L:778:GLU:N	7:E:258:SER:HA	1.98	0.79
6:L:1525:VAL:HB	9:C:92:LYS:NZ	1.98	0.79
7:E:314:LYS:HD3	9:C:4:LEU:CG	2.13	0.79
8:d:146:GLU:HB2	9:c:480:ARG:HH12	1.43	0.79
11:O:463:ARG:N	11:Q:707:GLN:HA	1.96	0.79
11:O:466:GLN:HB3	11:Q:689:LYS:HA	1.63	0.79
11:O:784:LYS:CA	11:Q:649:ALA:O	2.22	0.79
12:B:221:THR:HG22	13:A:918:GLU:OE2	1.82	0.79
4:R:626:ARG:NH2	2:T:433:THR:HA	1.98	0.79
3:S:734:VAL:HG21	2:T:383:VAL:HG13	1.65	0.79
4:r:122:GLU:OE1	4:R:504:ILE:HG22	1.83	0.78
6:L:696:GLU:OE2	8:d:321:LEU:CD1	2.31	0.78
8:D:11:SER:C	9:C:69:ARG:HH11	1.90	0.78
11:O:466:GLN:CB	11:Q:689:LYS:HA	2.12	0.78
4:R:620:GLN:CD	2:T:425:GLN:HE21	1.92	0.78
1:H:716:SER:HA	11:Q:7:GLU:HB3	1.65	0.78
2:t:382:VAL:HG22	3:s:1758:SER:H	1.43	0.78
4:r:119:MET:HA	4:R:511:ASP:N	1.99	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:292:VAL:HG12	15:f:616:CYS:CA	2.13	0.78
6:l:617:GLU:O	13:a:1313:GLY:HA3	1.82	0.78
9:c:638:ALA:HA	13:a:1125:ASN:OD1	1.83	0.78
12:b:221:THR:HG22	13:a:918:GLU:OE2	1.81	0.78
4:R:365:THR:HG23	4:R:550:GLN:OE1	1.82	0.78
4:R:490:PRO:O	2:T:377:LEU:CA	2.20	0.78
4:r:110:VAL:O	4:R:508:VAL:CG2	2.31	0.78
5:G:14:ASP:HA	13:A:1381:TYR:CD1	2.18	0.78
5:G:279:SER:CB	15:F:265:GLY:CA	2.61	0.78
6:L:1245:ALA:N	13:A:1285:ARG:CZ	2.46	0.78
9:c:320:THR:HG21	4:R:127:TRP:O	1.82	0.78
11:O:465:PRO:HB3	11:Q:689:LYS:HB2	1.63	0.78
5:g:267:VAL:C	15:f:253:VAL:HB	1.99	0.78
9:c:205:GLY:HA2	9:c:207:MET:HE2	1.65	0.78
9:c:532:ARG:CZ	9:c:568:PRO:CG	2.43	0.78
11:O:469:SER:OG	11:Q:667:ILE:CA	2.31	0.78
4:R:443:PRO:HG2	3:S:709:ILE:CD1	2.11	0.78
4:R:627:LEU:HG	2:T:432:LEU:HD13	1.64	0.78
2:t:357:LEU:CD2	3:s:1732:SER:HA	2.08	0.78
7:E:9:ALA:CB	9:C:36:GLU:O	2.31	0.78
11:O:786:THR:HG23	11:Q:605:TRP:CE2	2.18	0.78
11:O:791:LYS:CG	11:Q:454:ARG:NE	2.35	0.78
11:M:31:LEU:CA	15:F:436:ARG:NH1	2.41	0.78
3:S:817:ILE:CD1	2:T:466:ASP:HB2	2.13	0.78
5:g:14:ASP:HA	13:a:1381:TYR:CD1	2.18	0.78
5:g:287:LEU:HD22	15:f:261:LEU:HD22	1.65	0.78
7:E:312:ASN:CG	9:C:1:MET:H3	1.92	0.78
7:e:2:PHE:HB3	9:c:57:VAL:HG11	1.64	0.78
11:O:791:LYS:HA	11:Q:454:ARG:NH1	1.95	0.78
12:B:155:ASP:OD2	13:A:527:ASN:ND2	2.16	0.78
4:R:596:ARG:NH2	3:S:746:GLU:HG2	1.95	0.78
6:L:1244:MET:HE2	13:A:1281:ASP:CA	2.13	0.78
11:O:470:ARG:HH21	11:Q:671:GLU:H	0.80	0.78
11:M:8:ILE:HA	15:F:435:GLU:OE2	1.83	0.78
13:A:1167:SER:CB	15:F:859:ARG:CZ	2.62	0.78
4:R:495:SER:N	2:T:381:THR:O	2.14	0.78
4:R:588:GLN:CD	2:T:390:LEU:HG	2.09	0.78
3:S:736:SER:C	3:S:738:GLU:N	2.42	0.78
1:H:488:GLN:O	15:f:790:LYS:CA	2.31	0.78
5:G:58:GLY:N	13:A:1378:TRP:CD1	2.52	0.78
6:l:466:PRO:HD2	13:a:1213:LEU:HD23	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:14:LEU:HD12	9:C:40:GLN:CG	2.14	0.78
7:E:47:TRP:CG	9:C:54:MET:CG	2.67	0.78
7:e:322:ASP:HB3	9:c:15:GLY:H	1.46	0.78
11:O:470:ARG:NH2	11:Q:671:GLU:CG	2.47	0.78
11:M:35:LEU:CG	15:F:436:ARG:NE	2.45	0.78
13:A:1248:LEU:HD21	13:A:1259:ALA:HB2	1.65	0.78
4:R:585:LYS:NZ	3:S:739:GLU:OE2	2.14	0.78
5:g:285:VAL:HG23	15:f:266:ASP:C	2.08	0.78
6:l:44:LYS:N	10:U:1128:MET:O	2.17	0.78
6:l:468:GLN:NE2	13:a:1213:LEU:O	2.15	0.78
7:E:3:VAL:O	9:C:57:VAL:HG22	1.84	0.78
7:E:148:MET:CB	9:C:499:LEU:HD11	2.14	0.78
7:E:309:TYR:CB	9:C:390:LEU:CD1	2.62	0.78
7:E:309:TYR:HB3	9:C:390:LEU:CD1	2.13	0.78
8:d:13:LYS:HE3	9:c:413:SER:HA	1.64	0.78
9:c:621:GLN:HG2	11:M:11:TYR:O	1.82	0.78
11:O:463:ARG:HE	11:Q:752:LEU:HA	1.49	0.78
11:O:468:THR:O	11:Q:663:THR:CB	2.32	0.78
12:B:218:VAL:C	13:A:918:GLU:HG2	1.90	0.78
1:H:554:GLN:NE2	11:N:544:PRO:HG3	1.94	0.78
3:s:1735:ILE:CD1	4:r:548:CYS:C	2.50	0.78
7:E:20:PHE:CB	9:C:26:SER:OG	2.29	0.78
9:c:646:VAL:HG22	13:a:1080:TYR:CE1	2.18	0.78
4:R:588:GLN:CD	2:T:390:LEU:HD21	2.09	0.78
4:R:616:ALA:CB	2:T:422:LEU:CG	2.59	0.78
7:E:5:ARG:HD3	9:C:55:TYR:HA	1.64	0.77
8:D:16:ARG:HH22	9:C:446:LYS:NZ	1.82	0.77
11:O:468:THR:CB	11:Q:664:GLU:OE2	2.32	0.77
11:O:475:ILE:HD13	11:Q:767:HIS:CD2	2.19	0.77
11:O:662:LYS:CE	11:Q:595:LYS:HE2	2.12	0.77
12:B:221:THR:CG2	13:A:918:GLU:CD	2.57	0.77
13:a:933:VAL:CG1	13:a:943:ILE:HD11	2.13	0.77
4:R:494:CYS:SG	2:T:383:VAL:CG1	2.71	0.77
4:R:659:LEU:O	2:T:472:MET:HE1	1.84	0.77
3:S:824:VAL:CG1	2:T:476:LEU:HD11	2.13	0.77
1:H:465:GLU:HG2	11:N:23:ARG:HH22	1.48	0.77
7:E:148:MET:HE1	9:C:476:LEU:HD21	1.66	0.77
11:O:12:VAL:CA	15:f:586:GLY:N	2.48	0.77
11:O:455:LYS:N	11:Q:695:ASN:HB2	1.99	0.77
11:O:461:PHE:CZ	11:Q:700:ALA:O	2.36	0.77
11:O:646:GLU:C	11:Q:788:SER:HA	2.04	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:B:90:LEU:HD13	13:A:503:LEU:CD1	2.14	0.77
1:H:119:SER:HB3	11:M:727:TYR:HE1	1.49	0.77
7:E:6:SER:HB2	9:C:15:GLY:C	2.08	0.77
7:e:314:LYS:HZ2	9:c:3:GLU:CD	1.87	0.77
8:D:124:GLY:C	9:C:479:ARG:CZ	2.56	0.77
11:O:775:ILE:HD12	11:Q:785:LEU:CD2	2.13	0.77
4:R:578:VAL:CG2	3:S:732:PHE:CG	2.67	0.77
3:S:817:ILE:HD11	2:T:466:ASP:HB2	1.67	0.77
4:r:143:ARG:C	4:R:506:PRO:CD	2.48	0.77
9:c:106:ARG:NH2	9:c:145:ASN:OD1	2.18	0.77
13:A:933:VAL:CG1	13:A:943:ILE:HD11	2.13	0.77
4:R:620:GLN:CB	2:T:425:GLN:HE22	1.87	0.77
4:r:119:MET:CB	4:R:509:LEU:HA	2.13	0.77
11:O:780:PRO:HB2	11:Q:656:LEU:C	2.08	0.77
4:R:588:GLN:CD	2:T:390:LEU:CD2	2.58	0.77
3:S:709:ILE:HG23	2:T:358:LEU:HD21	1.65	0.77
2:t:364:TRP:HA	3:s:1743:ILE:HD13	1.64	0.77
5:g:270:SER:HA	15:f:255:TRP:CA	1.70	0.77
5:g:270:SER:C	15:f:255:TRP:HB2	1.80	0.77
6:L:1522:LYS:HB3	9:C:92:LYS:HB2	1.65	0.77
6:l:470:THR:HB	13:a:1261:GLU:OE2	1.83	0.77
6:l:785:VAL:HG13	7:e:258:SER:HB3	1.66	0.77
6:l:1245:ALA:HB2	13:a:1274:THR:CB	2.10	0.77
7:e:321:GLY:C	9:c:16:LEU:O	2.28	0.77
9:c:641:LEU:HD22	13:a:1121:LEU:HD12	1.64	0.77
11:O:463:ARG:HB3	11:Q:710:LEU:CB	2.14	0.77
4:R:445:ARG:HD2	4:R:547:GLU:OE2	1.85	0.77
4:R:613:PHE:CB	3:S:768:PHE:CE1	2.66	0.77
2:t:357:LEU:HG	4:r:543:PRO:HG3	1.57	0.77
5:g:275:ILE:CG2	15:f:255:TRP:CE2	2.68	0.77
5:g:292:VAL:N	15:f:653:ARG:NH1	2.33	0.77
6:L:777:PRO:HG3	7:E:257:LEU:CB	1.87	0.77
6:L:788:GLN:OE1	13:A:1401:GLN:CA	2.32	0.77
7:E:10:ASP:CA	9:C:49:ALA:O	2.33	0.77
9:c:183:LEU:HD22	9:c:216:LYS:NZ	2.00	0.77
11:O:656:LEU:CD1	11:Q:793:ALA:HB2	2.14	0.77
11:O:662:LYS:HE2	11:Q:595:LYS:CD	2.15	0.77
11:O:787:ILE:HD12	11:Q:583:LYS:HG3	1.65	0.77
12:b:155:ASP:OD2	13:a:527:ASN:ND2	2.16	0.77
5:g:58:GLY:N	13:a:1378:TRP:CD1	2.52	0.77
5:g:271:ILE:HD13	15:f:697:ARG:CZ	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:1244:MET:CE	13:A:1281:ASP:HA	2.15	0.77
9:c:320:THR:CG2	4:R:127:TRP:C	2.58	0.77
10:U:1359:VAL:CG1	13:a:1028:CYS:SG	2.73	0.77
11:O:599:GLY:N	11:Q:794:ARG:N	2.33	0.77
12:b:90:LEU:HD13	13:a:503:LEU:CD1	2.14	0.77
4:R:651:GLU:CD	3:S:818:ARG:CZ	2.57	0.77
1:H:471:ARG:CD	15:f:896:ARG:NH2	2.42	0.77
5:g:2:VAL:HG23	15:f:309:LEU:HD11	1.65	0.77
5:g:292:VAL:CG1	15:f:616:CYS:O	2.32	0.77
5:G:277:ALA:CB	15:F:261:LEU:HD11	2.15	0.77
6:l:40:ASP:HA	10:U:1130:THR:HG23	1.67	0.77
9:c:641:LEU:HD21	13:a:1121:LEU:HA	1.66	0.77
11:O:791:LYS:C	11:Q:454:ARG:CZ	2.58	0.77
11:O:791:LYS:HB3	11:Q:593:ASP:CG	2.10	0.77
11:M:31:LEU:HA	15:F:436:ARG:NH1	1.98	0.77
4:r:119:MET:HG2	4:R:509:LEU:HA	0.77	0.77
5:g:22:ASP:OD2	15:f:735:ARG:NH2	2.18	0.77
6:L:1244:MET:HE2	13:A:1281:ASP:HA	1.67	0.77
6:L:1248:GLY:CA	13:A:1277:SER:O	2.13	0.77
7:E:315:CYS:SG	9:C:8:PRO:HB3	2.25	0.77
8:D:259:ALA:CB	9:C:453:ARG:CZ	2.52	0.77
9:c:252:PHE:CE1	4:R:461:LEU:HD12	2.20	0.77
11:O:672:SER:CB	11:Q:787:ILE:HD11	2.15	0.77
11:O:789:PRO:HG3	11:Q:450:LEU:CD1	2.12	0.77
11:O:790:SER:HA	11:Q:454:ARG:CB	2.15	0.77
4:R:364:ALA:O	4:R:550:GLN:CD	2.28	0.77
6:l:466:PRO:CG	13:a:1213:LEU:CD2	2.64	0.76
11:O:464:VAL:HG23	11:Q:704:GLU:O	1.84	0.76
1:H:491:ASP:HB2	15:f:753:ASN:HD21	1.51	0.76
1:h:316:PRO:HD2	15:f:464:ARG:HG3	1.66	0.76
11:O:662:LYS:HG3	11:Q:592:TYR:CD1	2.20	0.76
4:R:495:SER:OG	2:T:381:THR:HG22	1.85	0.76
3:s:1735:ILE:HD12	4:r:548:CYS:SG	2.25	0.76
5:g:304:LYS:HG3	15:f:267:LYS:N	2.00	0.76
5:G:167:LEU:CA	15:F:685:HIS:HD2	1.62	0.76
5:G:275:ILE:CG2	15:F:255:TRP:CE2	2.68	0.76
6:l:51:ILE:CG2	10:U:1086:ARG:CZ	2.35	0.76
6:l:1243:GLY:O	13:a:1276:GLU:CG	2.08	0.76
7:e:322:ASP:N	9:c:16:LEU:HB3	1.99	0.76
8:D:9:PHE:CZ	9:C:70:LYS:N	2.52	0.76
10:U:1386:ARG:HB3	13:a:1152:SER:H	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:477:ILE:HG12	2:T:360:ASN:OD1	1.85	0.76
4:R:496:GLN:N	2:T:385:ALA:CA	2.41	0.76
4:R:555:ALA:HB3	3:S:712:GLU:OE1	1.58	0.76
4:r:144:THR:C	4:R:509:LEU:CD1	2.30	0.76
5:g:48:ILE:CG2	6:l:541:ASN:OD1	2.25	0.76
5:G:22:ASP:OD2	15:F:735:ARG:NH2	2.19	0.76
6:L:468:GLN:CG	13:A:1196:PRO:CD	2.63	0.76
7:E:148:MET:CE	9:C:503:ARG:NE	2.49	0.76
11:O:786:THR:HG21	11:Q:578:ALA:CA	2.09	0.76
13:a:1169:GLN:NE2	15:f:855:GLU:CD	2.43	0.76
4:R:501:SER:OG	2:T:392:GLN:CD	2.28	0.76
2:t:357:LEU:HG	3:s:1732:SER:OG	1.85	0.76
5:g:14:ASP:CB	13:a:1382:SER:N	2.26	0.76
5:G:279:SER:HB3	15:F:265:GLY:HA2	1.67	0.76
7:E:32:SER:HB3	9:C:41:LYS:H	1.50	0.76
7:E:47:TRP:CH2	9:C:33:LEU:HD11	2.20	0.76
7:E:148:MET:HE2	9:C:503:ARG:NE	2.00	0.76
12:b:221:THR:CG2	13:a:918:GLU:CD	2.57	0.76
4:R:603:THR:HG1	3:S:753:PHE:HZ	0.80	0.76
5:G:2:VAL:HG21	15:F:309:LEU:HD12	1.63	0.76
9:c:254:LEU:HD21	4:R:459:SER:HA	1.68	0.76
9:c:621:GLN:HA	11:M:10:ARG:O	1.85	0.76
11:O:12:VAL:HA	15:f:586:GLY:N	2.00	0.76
2:t:382:VAL:CG2	3:s:1757:THR:C	2.59	0.76
5:g:294:GLY:N	15:f:653:ARG:HH21	1.78	0.76
6:L:1249:GLN:CB	13:A:1275:LYS:CA	2.53	0.76
7:e:7:ILE:H	9:c:54:MET:C	1.93	0.76
9:c:390:LEU:HD13	9:c:392:PHE:CZ	2.21	0.76
11:O:31:LEU:HB3	15:f:592:LYS:HE3	0.83	0.76
13:a:1172:ILE:HD11	15:f:904:ALA:H	1.51	0.76
13:a:1172:ILE:HD11	15:f:904:ALA:N	1.86	0.76
4:R:496:GLN:N	2:T:385:ALA:HB1	1.97	0.76
7:e:320:LYS:O	9:c:13:ILE:CG1	2.33	0.76
13:A:1169:GLN:NE2	15:F:855:GLU:CD	2.44	0.76
4:R:620:GLN:NE2	3:S:775:ASN:OD1	2.18	0.76
5:g:277:ALA:CB	15:f:261:LEU:HD11	2.15	0.76
6:L:1249:GLN:HB2	13:A:1275:LYS:C	2.05	0.76
7:e:15:ILE:O	9:c:37:THR:OG1	2.01	0.76
7:e:298:ASP:HA	9:c:22:HIS:HD2	1.51	0.76
12:b:218:VAL:CA	13:a:918:GLU:HG2	2.15	0.76
4:R:543:PRO:HA	3:S:701:GLU:O	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:659:LEU:HG	3:S:821:ASN:HD21	1.47	0.76
3:S:817:ILE:HG12	2:T:466:ASP:CB	2.16	0.76
9:C:653:GLU:OE1	13:A:1042:LEU:HD13	1.84	0.76
11:O:463:ARG:CA	11:Q:710:LEU:CB	2.64	0.76
11:O:789:PRO:CG	11:Q:450:LEU:HD13	2.12	0.76
2:t:362:ASN:HA	4:r:533:LEU:H	0.78	0.75
5:g:269:TRP:O	15:f:254:GLY:HA3	1.86	0.75
7:e:7:ILE:HG21	9:c:54:MET:HE3	1.66	0.75
11:O:458:LYS:NZ	11:Q:692:GLU:C	2.44	0.75
11:O:465:PRO:HG3	11:Q:686:TYR:CE1	2.21	0.75
11:O:788:SER:HB2	11:Q:581:LEU:HD23	0.79	0.75
13:a:1167:SER:CB	15:f:859:ARG:NE	2.49	0.75
1:H:461:ILE:HA	11:N:27:MET:HE3	1.68	0.75
2:t:357:LEU:HD11	4:r:543:PRO:CB	1.78	0.75
6:L:811:PRO:HD3	8:d:27:LEU:CD1	2.17	0.75
6:L:1695:LEU:CD2	9:C:248:THR:O	2.31	0.75
9:C:600:ARG:HH21	13:A:1222:THR:HG22	1.48	0.75
9:c:321:GLU:CG	4:R:130:LYS:HA	2.17	0.75
1:H:118:ASP:HB2	11:M:727:TYR:CE2	1.29	0.75
5:g:170:GLN:HG3	15:f:685:HIS:NE2	2.01	0.75
6:l:43:LEU:CB	10:U:1128:MET:O	2.34	0.75
8:d:13:LYS:CE	9:c:413:SER:HA	2.15	0.75
8:d:146:GLU:CB	9:c:480:ARG:HH12	1.96	0.75
9:c:611:GLU:HB3	13:a:1293:LYS:O	1.86	0.75
9:c:625:ILE:N	11:M:17:ASN:CB	2.37	0.75
11:O:35:LEU:C	15:f:587:ASP:HB3	2.11	0.75
11:O:469:SER:CB	11:Q:667:ILE:HG13	2.15	0.75
11:O:470:ARG:HD2	11:Q:667:ILE:CG2	2.06	0.75
3:s:1735:ILE:CG2	4:r:548:CYS:CB	2.42	0.75
5:g:285:VAL:HG11	15:f:263:HIS:ND1	2.01	0.75
5:G:292:VAL:CG1	15:F:616:CYS:O	2.34	0.75
9:c:620:LYS:C	11:M:13:GLU:CG	2.59	0.75
11:O:461:PHE:CB	11:Q:704:GLU:C	2.46	0.75
11:O:791:LYS:CG	11:Q:597:TYR:HE2	1.99	0.75
12:b:218:VAL:C	13:a:918:GLU:HG2	1.90	0.75
3:S:831:VAL:HG22	2:T:480:ILE:HG12	1.67	0.75
3:s:1739:ILE:HG12	4:r:552:LEU:HA	1.69	0.75
5:g:293:ASP:CA	15:f:653:ARG:NH2	2.49	0.75
5:G:287:LEU:CD2	15:F:261:LEU:HD21	2.14	0.75
6:L:1639:GLN:HB3	9:C:246:THR:CG2	2.16	0.75
7:E:15:ILE:H	9:C:38:LEU:N	1.78	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:287:GLY:O	9:c:313:LYS:HE3	1.86	0.75
1:H:465:GLU:CG	11:N:23:ARG:NH2	2.50	0.75
1:H:716:SER:HB2	11:Q:3:ARG:NE	2.02	0.75
5:G:287:LEU:HD22	15:F:261:LEU:HD22	1.67	0.75
6:L:788:GLN:CB	13:A:1398:GLN:O	2.34	0.75
7:E:12:LYS:CA	9:C:38:LEU:CD1	2.64	0.75
7:e:6:SER:HA	9:c:55:TYR:CD2	2.20	0.75
7:e:20:PHE:HZ	9:c:33:LEU:CB	1.98	0.75
7:e:288:ILE:HG12	9:c:435:LEU:HD21	1.67	0.75
9:c:314:HIS:HA	4:R:462:PHE:CZ	2.22	0.75
11:O:470:ARG:NH1	11:Q:671:GLU:CG	2.49	0.75
12:b:218:VAL:HA	13:a:918:GLU:HG2	1.69	0.75
5:G:170:GLN:HG3	15:F:685:HIS:NE2	2.01	0.75
11:O:480:CYS:O	11:Q:705:GLU:CD	2.30	0.75
12:B:218:VAL:CA	13:A:918:GLU:HG2	2.15	0.75
12:b:89:LEU:CD1	13:a:496:GLU:OE1	2.35	0.75
4:R:541:SER:OG	3:S:699:THR:C	2.17	0.75
4:R:620:GLN:CG	2:T:425:GLN:HE21	1.97	0.75
1:H:160:SER:OG	11:N:475:ILE:CG1	2.34	0.75
1:H:317:ASP:HB3	15:F:463:HIS:HD2	0.76	0.75
1:H:720:GLU:HG3	11:Q:7:GLU:HG2	1.67	0.75
5:g:275:ILE:CB	15:f:255:TRP:CE2	2.69	0.75
5:G:267:VAL:C	15:F:253:VAL:HB	2.01	0.75
9:c:257:GLN:HE22	4:R:463:LEU:N	1.83	0.75
9:c:596:TYR:CD2	13:a:1121:LEU:HD22	2.22	0.75
10:U:1313:ARG:HG2	13:a:798:SER:OG	1.85	0.75
4:R:494:CYS:N	2:T:381:THR:O	2.19	0.75
4:R:496:GLN:N	2:T:385:ALA:HA	1.96	0.75
3:S:751:HIS:ND1	2:T:400:LEU:HD22	1.98	0.75
4:r:145:ILE:CG1	4:R:506:PRO:C	2.60	0.75
6:L:468:GLN:HG2	13:A:1196:PRO:CD	2.16	0.75
8:D:11:SER:CB	9:C:66:PRO:CB	2.64	0.75
9:c:321:GLU:HG3	4:R:130:LYS:HA	1.69	0.75
11:O:8:ILE:HG23	15:f:587:ASP:N	1.81	0.75
12:B:219:ARG:NH2	13:A:970:LEU:HD11	2.02	0.75
4:R:477:ILE:CD1	2:T:359:GLU:CD	2.60	0.75
6:L:659:SER:HA	13:A:1313:GLY:CA	2.15	0.74
6:L:1482:ARG:HH22	9:C:87:GLU:CA	2.00	0.74
10:U:1359:VAL:HG22	13:a:1027:ASP:CB	2.16	0.74
10:U:1385:GLU:C	13:a:1150:GLY:HA3	2.11	0.74
11:O:463:ARG:CA	11:Q:710:LEU:HG	2.07	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:468:THR:HA	11:Q:667:ILE:HD11	1.69	0.74
11:O:484:LEU:CD1	11:Q:701:GLU:O	2.34	0.74
11:O:581:LEU:HD13	11:Q:794:ARG:CZ	2.16	0.74
4:r:119:MET:CA	4:R:511:ASP:N	2.48	0.74
5:G:36:SER:N	13:A:1378:TRP:CH2	2.50	0.74
9:c:573:LEU:CA	9:c:605:ARG:NH1	2.50	0.74
11:O:458:LYS:HZ2	11:Q:692:GLU:CA	2.00	0.74
4:R:670:ASN:OD1	2:T:479:VAL:CG1	2.35	0.74
3:S:824:VAL:O	2:T:476:LEU:HD11	1.86	0.74
7:e:148:MET:CE	9:c:503:ARG:HH21	1.98	0.74
7:e:294:ALA:CB	9:c:27:TRP:HE1	2.00	0.74
9:c:183:LEU:HD22	9:c:216:LYS:HZ1	1.53	0.74
9:c:207:MET:HE3	9:c:238:MET:SD	2.27	0.74
11:O:783:THR:CB	11:Q:602:VAL:CG1	2.64	0.74
12:B:89:LEU:CD1	13:A:496:GLU:OE1	2.35	0.74
12:B:223:ARG:HD2	13:A:920:HIS:CG	2.08	0.74
13:a:1136:TRP:HB2	15:f:902:ASP:OD1	1.87	0.74
4:R:564:LEU:HD11	3:S:719:GLU:HG2	1.68	0.74
2:t:372:GLU:HG3	4:r:526:ARG:HH22	1.52	0.74
6:L:777:PRO:CG	7:E:257:LEU:O	2.32	0.74
6:L:1522:LYS:HB3	9:C:92:LYS:HB3	1.69	0.74
11:O:463:ARG:CG	11:Q:710:LEU:HD12	2.17	0.74
4:r:95:LEU:CB	4:R:519:HIS:HB3	2.16	0.74
5:g:275:ILE:CB	15:f:255:TRP:HE1	1.99	0.74
7:E:12:LYS:CG	9:C:48:ALA:N	2.50	0.74
11:O:457:LEU:CA	11:Q:698:LEU:HD22	2.17	0.74
11:O:482:LEU:CG	11:Q:794:ARG:NH1	2.50	0.74
11:M:89:LEU:O	15:F:584:SER:CB	2.34	0.74
5:g:13:GLU:CG	13:a:1383:ALA:CB	2.61	0.74
6:l:173:PHE:HD2	10:U:1128:MET:CA	1.99	0.74
7:E:314:LYS:HD3	9:C:4:LEU:H	1.40	0.74
8:d:11:SER:CB	9:c:66:PRO:CA	2.65	0.74
11:O:776:LYS:O	11:Q:780:PRO:HG3	1.87	0.74
12:B:88:ALA:HB1	13:A:499:LYS:HZ3	1.50	0.74
3:S:772:LYS:HB2	2:T:421:ILE:CD1	2.17	0.74
6:L:613:LEU:CB	13:A:1247:ARG:CD	2.65	0.74
6:L:1251:PRO:CG	13:A:1260:TRP:HE1	2.01	0.74
6:l:43:LEU:HB2	10:U:1128:MET:O	1.87	0.74
6:l:1471:SER:HB2	8:d:302:ARG:HH22	1.50	0.74
9:c:250:THR:CA	4:R:459:SER:O	2.36	0.74
2:t:382:VAL:HG11	3:s:1757:THR:C	2.10	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:95:LEU:CB	4:R:519:HIS:CB	2.66	0.74
5:g:2:VAL:HG21	15:f:309:LEU:HD12	1.64	0.74
5:G:170:GLN:CG	15:F:685:HIS:HE2	2.01	0.74
5:G:285:VAL:HG11	15:F:263:HIS:ND1	2.02	0.74
6:L:465:GLU:CD	13:A:1198:THR:HA	2.13	0.74
7:e:148:MET:HG3	9:c:499:LEU:HD21	1.69	0.74
11:O:673:VAL:N	11:Q:787:ILE:CD1	2.51	0.74
11:O:786:THR:HG22	11:Q:578:ALA:C	2.13	0.74
4:r:120:VAL:H	4:R:510:ALA:H	1.33	0.74
5:g:24:TYR:HB2	15:f:735:ARG:CZ	2.17	0.74
7:e:7:ILE:HD12	9:c:54:MET:CB	2.18	0.74
13:A:1167:SER:CB	15:F:859:ARG:NE	2.51	0.74
3:S:831:VAL:HG23	2:T:480:ILE:HG12	1.70	0.74
4:r:119:MET:CB	4:R:512:VAL:CG2	2.29	0.74
5:G:285:VAL:HG23	15:F:266:ASP:C	2.12	0.74
6:L:466:PRO:HG2	13:A:1196:PRO:CA	2.17	0.74
9:c:641:LEU:CD2	13:a:1121:LEU:HD12	2.16	0.74
11:O:470:ARG:HH21	11:Q:671:GLU:N	1.65	0.74
11:O:651:ILE:H	11:Q:789:PRO:CB	1.97	0.74
12:b:176:GLU:HG3	13:a:918:GLU:OE2	1.88	0.74
4:R:444:LEU:CB	3:S:705:ILE:HD13	2.17	0.74
5:g:167:LEU:CA	15:f:685:HIS:HD2	1.63	0.73
5:G:24:TYR:HB2	15:F:735:ARG:CZ	2.16	0.73
8:d:13:LYS:NZ	9:c:413:SER:HA	2.02	0.73
9:C:653:GLU:CD	13:A:1042:LEU:HD11	2.12	0.73
10:U:1344:ARG:CZ	13:a:1148:ARG:NH2	2.51	0.73
11:O:540:LYS:HD2	11:Q:756:MET:SD	2.28	0.73
11:O:785:LEU:C	11:Q:582:HIS:CG	2.65	0.73
4:R:477:ILE:HG22	2:T:363:ASN:HD22	1.51	0.73
4:R:627:LEU:CD1	2:T:432:LEU:HD13	2.18	0.73
1:H:461:ILE:HA	11:N:27:MET:HE2	1.70	0.73
4:r:144:THR:C	4:R:509:LEU:HD12	1.69	0.73
4:r:175:LEU:HD23	4:R:511:ASP:OD1	1.87	0.73
6:l:1201:PHE:HD1	13:a:1275:LYS:NZ	1.87	0.73
8:D:13:LYS:CE	9:C:413:SER:CA	2.57	0.73
11:O:785:LEU:HB3	11:Q:582:HIS:CG	2.21	0.73
11:O:787:ILE:CG1	11:Q:582:HIS:HD2	1.94	0.73
12:B:176:GLU:HG3	13:A:918:GLU:OE2	1.88	0.73
12:b:219:ARG:NH2	13:a:970:LEU:HD11	2.02	0.73
3:S:824:VAL:CG2	2:T:473:ALA:HB2	2.19	0.73
6:l:465:GLU:CB	13:a:1216:GLN:CD	2.56	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:527:MET:CG	9:c:534:THR:HA	2.18	0.73
11:O:455:LYS:O	11:Q:698:LEU:CB	2.35	0.73
3:S:768:PHE:CD2	2:T:414:LEU:CD1	2.69	0.73
1:H:720:GLU:CG	11:Q:7:GLU:CG	2.57	0.73
2:t:366:LEU:CD2	4:r:532:LEU:CD1	2.61	0.73
3:s:1739:ILE:HD11	4:r:552:LEU:CA	2.19	0.73
7:E:47:TRP:CG	9:C:54:MET:HG2	2.23	0.73
7:e:296:SER:HB3	9:c:25:PHE:HD1	1.52	0.73
9:c:257:GLN:HE21	4:R:462:PHE:CA	2.01	0.73
12:B:218:VAL:HA	13:A:918:GLU:HG2	1.68	0.73
1:H:322:GLN:HE21	11:M:1:MET:HG3	1.47	0.73
6:L:465:GLU:HB3	13:A:1197:SER:OG	1.84	0.73
8:D:279:GLU:CD	9:C:450:LYS:HE2	2.12	0.73
9:c:314:HIS:CA	4:R:462:PHE:HE1	1.97	0.73
11:O:459:GLN:C	11:Q:703:GLN:HG3	2.13	0.73
11:O:646:GLU:C	11:Q:789:PRO:CD	2.60	0.73
1:H:313:GLU:CD	11:M:1:MET:CB	2.61	0.73
2:t:367:GLU:HB2	3:s:1743:ILE:HG21	1.68	0.73
6:L:1247:ILE:HG21	13:A:1280:THR:CA	2.18	0.73
6:l:470:THR:CB	13:a:1194:HIS:CE1	2.72	0.73
6:l:1471:SER:C	8:d:302:ARG:HH21	1.81	0.73
7:E:6:SER:HB2	9:C:16:LEU:N	2.02	0.73
9:c:110:ARG:HD3	9:c:113:MET:HE3	1.70	0.73
9:c:254:LEU:CD1	4:R:386:ILE:HG12	2.15	0.73
9:c:539:TYR:OH	9:c:578:ASP:OD2	2.05	0.73
11:O:463:ARG:CA	11:Q:710:LEU:CG	2.60	0.73
4:R:477:ILE:CG2	2:T:359:GLU:HG2	2.13	0.73
3:S:775:ASN:HD22	2:T:421:ILE:HG23	1.53	0.73
5:G:275:ILE:CB	15:F:255:TRP:CE2	2.71	0.73
5:G:275:ILE:CB	15:F:255:TRP:HE1	1.98	0.73
5:G:292:VAL:CA	15:F:653:ARG:CZ	2.48	0.73
6:L:1698:GLY:N	9:C:254:LEU:HA	1.96	0.73
7:e:282:TRP:CG	9:c:39:TYR:CE2	2.76	0.73
4:R:584:GLN:NE2	2:T:390:LEU:HD23	2.01	0.73
4:r:147:ILE:HB	4:R:511:ASP:HA	1.70	0.73
6:L:777:PRO:CG	7:E:257:LEU:CA	2.34	0.73
6:l:470:THR:HG21	13:a:1194:HIS:NE2	2.04	0.73
8:D:40:ASN:CA	9:C:412:HIS:CE1	2.71	0.73
8:D:125:SER:HB3	9:C:479:ARG:NE	2.04	0.73
10:U:1359:VAL:HG23	13:a:1027:ASP:HB3	1.69	0.73
13:a:1172:ILE:CD1	15:f:901:GLU:C	2.59	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:662:LEU:CD2	3:S:825:LYS:CA	2.63	0.73
1:h:723:MET:HE2	11:P:333:VAL:CG2	2.10	0.73
3:s:1739:ILE:HD11	4:r:552:LEU:N	2.03	0.73
6:l:1596:HIS:NE2	4:R:209:THR:CG2	2.51	0.73
8:D:16:ARG:HH22	9:C:446:LYS:HZ3	1.36	0.73
8:d:12:HIS:C	9:c:69:ARG:HH22	1.96	0.73
9:c:437:MET:HE3	9:c:451:ALA:HB1	1.70	0.73
9:c:527:MET:HE1	9:c:538:LYS:HE2	1.71	0.73
11:O:602:VAL:CG2	11:Q:791:LYS:O	2.36	0.73
4:R:584:GLN:HE21	2:T:390:LEU:HD23	1.54	0.73
4:R:627:LEU:HD21	2:T:432:LEU:HD22	1.70	0.73
6:L:1699:SER:OG	9:C:251:GLU:C	2.31	0.73
8:D:9:PHE:CZ	9:C:70:LYS:CA	2.71	0.73
11:O:475:ILE:HD11	11:Q:767:HIS:HB3	1.70	0.73
13:A:1172:ILE:CD1	15:F:904:ALA:H	2.02	0.73
13:a:1172:ILE:CD1	15:f:904:ALA:H	2.02	0.73
4:R:443:PRO:CB	3:S:709:ILE:HD11	2.17	0.73
4:R:673:MET:CG	3:S:835:LEU:CG	2.67	0.73
2:t:358:GLU:CB	4:r:443:PRO:HG2	2.18	0.72
2:t:365:SER:HB2	4:r:532:LEU:HA	1.70	0.72
5:g:14:ASP:CB	13:a:1381:TYR:C	2.62	0.72
5:G:271:ILE:CD1	15:F:697:ARG:CZ	2.67	0.72
6:L:788:GLN:HG2	13:A:1403:ILE:N	1.99	0.72
6:l:40:ASP:O	10:U:1129:SER:HA	1.89	0.72
7:E:14:LEU:CD2	9:C:22:HIS:HD2	2.01	0.72
7:e:294:ALA:HB3	9:c:27:TRP:HE1	1.53	0.72
11:O:481:LEU:HD23	11:Q:705:GLU:CB	2.18	0.72
11:O:787:ILE:O	11:Q:579:ARG:C	2.30	0.72
5:g:287:LEU:HD21	15:f:261:LEU:HD23	1.70	0.72
7:E:314:LYS:HB3	9:C:4:LEU:H	1.52	0.72
9:c:596:TYR:CE2	13:a:1121:LEU:HD22	2.24	0.72
10:U:1385:GLU:HB3	13:a:1150:GLY:HA3	0.75	0.72
11:O:531:TRP:HZ2	11:Q:701:GLU:H	1.20	0.72
11:O:791:LYS:CB	11:Q:454:ARG:CZ	2.67	0.72
4:R:666:ILE:CG1	2:T:476:LEU:HD21	1.92	0.72
8:d:127:MET:HE1	9:c:477:CYS:O	1.89	0.72
11:O:593:ASP:C	11:Q:794:ARG:O	2.32	0.72
11:O:649:ALA:HB3	11:Q:788:SER:HB2	0.97	0.72
11:O:662:LYS:HE2	11:Q:595:LYS:HD3	1.71	0.72
13:A:1136:TRP:HB2	15:F:902:ASP:OD1	1.88	0.72
4:R:673:MET:CG	3:S:835:LEU:HD21	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:313:GLU:CG	11:M:1:MET:HG3	2.20	0.72
5:g:285:VAL:HG22	15:f:265:GLY:C	2.01	0.72
5:G:24:TYR:HD2	15:F:735:ARG:NE	1.87	0.72
7:E:309:TYR:CD2	9:C:390:LEU:HD23	2.24	0.72
9:c:252:PHE:CE1	4:R:461:LEU:CD1	2.72	0.72
10:U:1307:ARG:NH2	13:a:1001:LYS:HE2	1.90	0.72
11:O:599:GLY:H	11:Q:794:ARG:N	1.88	0.72
4:R:365:THR:HA	4:R:550:GLN:HE22	1.54	0.72
4:R:488:PRO:O	2:T:377:LEU:CD1	2.37	0.72
4:R:659:LEU:HD21	3:S:821:ASN:CA	2.18	0.72
4:r:110:VAL:C	4:R:508:VAL:HG22	2.14	0.72
6:L:617:GLU:HA	13:A:1312:HIS:NE2	2.03	0.72
8:d:40:ASN:N	9:c:412:HIS:CD2	2.57	0.72
11:O:785:LEU:HA	11:Q:582:HIS:CE1	2.20	0.72
12:B:90:LEU:HD12	13:A:499:LYS:HB3	1.71	0.72
1:H:313:GLU:HG3	11:M:1:MET:N	1.76	0.72
5:g:285:VAL:HB	15:f:266:ASP:O	1.87	0.72
5:G:16:ILE:CB	15:F:303:LYS:CA	2.66	0.72
5:G:269:TRP:O	15:F:254:GLY:HA3	1.87	0.72
5:G:285:VAL:HB	15:F:266:ASP:O	1.90	0.72
7:E:13:ASP:CB	9:C:41:LYS:CG	2.67	0.72
7:E:274:PHE:HZ	9:C:3:GLU:OE1	1.64	0.72
7:e:7:ILE:CG1	9:c:54:MET:HB2	2.19	0.72
8:d:12:HIS:H	9:c:69:ARG:HH22	1.31	0.72
11:O:582:HIS:HA	11:O:598:MET:HE1	1.71	0.72
11:Q:582:HIS:HA	11:Q:598:MET:HE1	1.71	0.72
11:M:582:HIS:HA	11:M:598:MET:HE1	1.72	0.72
4:R:477:ILE:HA	2:T:360:ASN:OD1	1.89	0.72
4:R:584:GLN:CD	2:T:390:LEU:CD2	2.58	0.72
2:t:358:GLU:HB2	4:r:443:PRO:CG	2.18	0.72
5:g:24:TYR:HD2	15:f:735:ARG:NE	1.87	0.72
5:G:292:VAL:HA	15:F:653:ARG:CZ	2.14	0.72
6:L:614:ALA:H	13:A:1247:ARG:NH2	1.83	0.72
9:c:645:ILE:HG21	13:a:1122:ALA:HB2	1.53	0.72
11:O:459:GLN:C	11:Q:703:GLN:CG	2.56	0.72
5:G:16:ILE:HB	15:F:303:LYS:CA	2.18	0.72
6:L:788:GLN:OE1	13:A:1398:GLN:C	2.33	0.72
6:L:1253:LEU:HD11	13:A:1276:GLU:HA	1.70	0.72
9:c:416:GLN:CD	9:c:450:LYS:CE	2.61	0.72
9:c:532:ARG:NH1	9:c:568:PRO:HG2	2.02	0.72
9:c:642:ALA:CB	13:a:1125:ASN:HB3	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:482:LEU:HD13	11:Q:794:ARG:NH1	1.97	0.72
11:O:782:PRO:CG	11:Q:777:HIS:HE1	2.02	0.72
3:S:824:VAL:HG23	2:T:473:ALA:HB2	1.72	0.72
5:g:14:ASP:HA	13:a:1381:TYR:HD1	1.53	0.72
5:g:271:ILE:CD1	15:f:697:ARG:CZ	2.68	0.72
7:e:20:PHE:CZ	9:c:33:LEU:CB	2.73	0.72
10:U:1211:PRO:HD2	12:b:57:THR:CB	2.13	0.72
11:O:646:GLU:O	11:Q:787:ILE:O	2.08	0.72
4:R:490:PRO:CG	2:T:373:GLU:O	2.37	0.72
4:R:577:ARG:HH21	2:T:387:ASP:CB	1.99	0.72
3:S:824:VAL:CG2	2:T:473:ALA:N	2.52	0.72
1:H:131:VAL:HG22	11:Q:618:LYS:HZ2	1.45	0.72
4:r:175:LEU:HD22	4:R:511:ASP:OD1	1.87	0.72
6:l:617:GLU:CD	13:a:1250:GLN:CD	2.58	0.72
7:E:314:LYS:HG2	9:C:4:LEU:N	1.97	0.72
9:c:619:GLN:HG2	11:M:7:GLU:CA	2.10	0.72
9:c:645:ILE:CG2	13:a:1122:ALA:CB	2.62	0.72
3:S:821:ASN:HA	2:T:469:LEU:HD22	1.71	0.72
5:g:287:LEU:CD2	15:f:261:LEU:HD21	2.15	0.71
6:L:811:PRO:HD3	8:d:27:LEU:HD13	1.69	0.71
6:l:1243:GLY:CA	13:a:1276:GLU:CG	2.48	0.71
9:c:116:MET:HE1	9:c:137:LEU:HD11	1.72	0.71
9:c:517:LEU:CD2	9:c:540:ARG:NH1	2.53	0.71
11:O:465:PRO:CG	11:Q:686:TYR:CD1	2.59	0.71
4:R:443:PRO:CG	3:S:709:ILE:HD13	2.18	0.71
4:R:443:PRO:HB2	3:S:709:ILE:HD11	1.71	0.71
4:R:635:HIS:HA	2:T:452:ASP:HB2	1.72	0.71
3:S:713:ILE:HG23	2:T:361:LEU:HD21	1.70	0.71
10:U:1386:ARG:CB	13:a:1152:SER:N	2.53	0.71
11:O:454:ARG:C	11:Q:698:LEU:HD23	2.15	0.71
4:R:447:ARG:CZ	3:S:702:SER:CB	2.66	0.71
4:R:627:LEU:HD21	2:T:432:LEU:CD2	2.20	0.71
7:E:91:GLY:HA3	8:D:125:SER:HB2	1.72	0.71
11:O:457:LEU:N	11:Q:698:LEU:CD2	2.51	0.71
11:O:458:LYS:HZ2	11:Q:692:GLU:C	1.98	0.71
11:O:596:GLU:HA	11:Q:795:PHE:CE2	2.25	0.71
5:g:287:LEU:CG	15:f:268:LEU:CD1	2.67	0.71
5:G:16:ILE:HB	15:F:303:LYS:HA	1.72	0.71
7:e:7:ILE:CD1	9:c:54:MET:HB2	2.21	0.71
8:d:9:PHE:C	9:c:70:LYS:HE2	2.15	0.71
8:d:40:ASN:HA	9:c:412:HIS:CD2	2.18	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:145:ASN:HD22	9:c:145:ASN:C	1.98	0.71
11:O:460:ILE:H	11:Q:703:GLN:HB2	1.49	0.71
4:R:543:PRO:CD	3:S:702:SER:O	2.31	0.71
4:R:613:PHE:CD2	3:S:768:PHE:CZ	2.76	0.71
3:S:824:VAL:C	2:T:476:LEU:CD1	2.62	0.71
4:r:119:MET:HB2	4:R:512:VAL:CB	2.21	0.71
5:g:16:ILE:HB	15:f:303:LYS:CA	2.21	0.71
5:G:292:VAL:CG1	15:F:616:CYS:CA	2.68	0.71
6:L:673:VAL:HG11	13:A:1397:ASN:HB2	1.71	0.71
9:c:257:GLN:HG2	4:R:461:LEU:O	1.88	0.71
9:c:316:THR:OG1	4:R:462:PHE:CE2	2.42	0.71
11:O:784:LYS:CG	11:Q:651:ILE:N	2.53	0.71
4:R:581:LEU:HD13	3:S:734:VAL:HG11	1.73	0.71
4:R:613:PHE:CE2	3:S:771:MET:HE2	2.25	0.71
1:H:491:ASP:HB3	15:f:792:ILE:C	2.13	0.71
2:t:363:LYS:CD	3:s:1740:ARG:HE	1.89	0.71
6:L:1699:SER:HB3	9:C:253:GLU:HB3	1.73	0.71
7:E:13:ASP:HB3	9:C:41:LYS:HG3	1.70	0.71
8:D:39:ASP:OD1	9:C:412:HIS:HB2	1.91	0.71
9:c:641:LEU:HD21	13:a:1121:LEU:O	1.83	0.71
11:O:657:ASP:O	11:Q:592:TYR:CZ	2.43	0.71
12:b:120:ILE:CG2	13:a:520:GLN:HE22	2.01	0.71
4:R:447:ARG:HH21	3:S:702:SER:C	1.93	0.71
4:R:494:CYS:HA	2:T:386:TRP:N	1.97	0.71
4:R:532:LEU:C	2:T:358:LEU:C	2.58	0.71
4:R:588:GLN:OE1	2:T:390:LEU:CD1	2.38	0.71
5:G:270:SER:CA	15:F:255:TRP:N	2.37	0.71
6:L:1249:GLN:CB	13:A:1276:GLU:N	2.50	0.71
7:E:22:PHE:CE1	9:C:439:ARG:HA	2.25	0.71
11:O:11:TYR:C	15:f:586:GLY:N	2.48	0.71
4:R:503:GLU:OE1	2:T:392:GLN:HG2	1.90	0.71
4:R:602:LEU:HD23	3:S:757:ILE:HG21	1.72	0.71
3:S:744:ARG:HH22	2:T:389:THR:HG21	0.55	0.71
5:g:170:GLN:CG	15:f:685:HIS:HE2	2.01	0.71
7:E:91:GLY:HA2	8:D:125:SER:CB	2.18	0.71
10:U:1211:PRO:HD2	12:b:57:THR:CG2	1.79	0.71
4:R:446:CYS:N	3:S:705:ILE:CD1	2.53	0.71
4:R:635:HIS:CD2	2:T:450:HIS:C	2.68	0.71
4:R:656:ASN:HB2	2:T:465:ILE:CG1	2.20	0.71
5:g:54:ARG:NH2	13:a:1334:ARG:NE	2.37	0.71
9:c:434:LYS:HA	9:c:460:MET:HE1	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:U:1363:SER:HB3	13:a:997:THR:CB	2.21	0.71
11:O:460:ILE:CB	11:Q:699:PRO:O	2.29	0.71
4:R:578:VAL:HG22	3:S:732:PHE:HB3	1.71	0.71
1:H:720:GLU:OE1	11:Q:7:GLU:OE1	2.09	0.71
6:L:1247:ILE:HG22	13:A:1280:THR:N	2.06	0.71
6:L:1697:ASP:C	9:C:254:LEU:C	2.42	0.71
7:e:7:ILE:HB	9:c:54:MET:N	2.04	0.71
12:b:90:LEU:HD12	13:a:499:LYS:HB3	1.72	0.71
4:R:596:ARG:CG	3:S:750:LEU:HD21	2.21	0.71
1:H:322:GLN:NE2	11:M:1:MET:SD	2.54	0.70
2:t:364:TRP:NE1	3:s:1740:ARG:CG	2.52	0.70
4:r:110:VAL:O	4:R:508:VAL:CB	2.38	0.70
6:L:1699:SER:HG	9:C:254:LEU:HB2	1.53	0.70
9:c:174:GLU:CD	9:c:300:THR:HG21	2.16	0.70
9:c:620:LYS:O	11:M:13:GLU:CG	2.39	0.70
10:U:1386:ARG:HB3	13:a:1152:SER:N	2.06	0.70
11:P:582:HIS:HA	11:P:598:MET:HE1	1.71	0.70
4:R:673:MET:SD	2:T:483:LEU:HD11	2.26	0.70
1:H:461:ILE:HD13	11:N:28:LYS:HG2	1.72	0.70
6:L:673:VAL:CG2	13:A:1397:ASN:HD21	2.04	0.70
7:E:18:VAL:CG2	9:C:24:GLY:CA	2.69	0.70
7:e:148:MET:HG3	9:c:499:LEU:CD2	2.21	0.70
9:c:183:LEU:CD2	9:c:216:LYS:NZ	2.53	0.70
10:U:1359:VAL:CG2	13:a:1027:ASP:O	2.36	0.70
11:O:470:ARG:CD	11:Q:667:ILE:CG2	2.64	0.70
13:A:1172:ILE:HD11	15:F:904:ALA:H	1.52	0.70
4:R:584:GLN:CG	2:T:390:LEU:CD2	2.69	0.70
3:s:1739:ILE:CD1	4:r:552:LEU:HB2	2.21	0.70
7:E:12:LYS:HD3	9:C:48:ALA:H	1.55	0.70
9:c:299:MET:SD	9:c:305:PHE:HA	2.31	0.70
9:c:390:LEU:HB2	9:c:394:ALA:O	1.91	0.70
9:c:624:SER:CB	11:M:14:ASN:CB	2.69	0.70
11:N:582:HIS:HA	11:N:598:MET:HE1	1.71	0.70
3:S:786:GLN:CD	2:T:435:LEU:CD1	2.62	0.70
2:t:358:GLU:OE1	4:r:441:THR:C	2.34	0.70
3:s:1739:ILE:HG12	4:r:552:LEU:CB	2.13	0.70
4:r:145:ILE:CG2	4:R:510:ALA:HB2	2.21	0.70
5:G:14:ASP:HA	13:A:1381:TYR:HD1	1.53	0.70
9:c:318:LYS:CB	4:R:131:SER:HB2	2.16	0.70
14:I:707:TRP:CH2	14:I:773:VAL:HG22	2.27	0.70
4:R:503:GLU:OE1	2:T:392:GLN:CA	2.38	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:666:ILE:HD13	2:T:476:LEU:HG	1.71	0.70
6:L:673:VAL:HG21	13:A:1397:ASN:HD21	1.55	0.70
6:L:1693:ILE:CA	9:C:247:GLN:OE1	2.40	0.70
7:e:311:ASP:OD2	9:c:391:TYR:CB	2.39	0.70
9:c:562:MET:HE1	9:c:576:LEU:HD21	1.73	0.70
11:O:455:LYS:O	11:Q:698:LEU:CD2	2.38	0.70
4:R:532:LEU:CD1	2:T:360:ASN:N	2.53	0.70
4:R:636:THR:HA	2:T:450:HIS:N	2.04	0.70
3:s:1735:ILE:CD1	4:r:548:CYS:H	2.05	0.70
5:g:57:ASP:O	13:a:1378:TRP:HB2	1.91	0.70
6:L:465:GLU:OE2	13:A:1198:THR:HG22	1.91	0.70
6:L:1245:ALA:N	13:A:1285:ARG:NH1	2.40	0.70
6:l:466:PRO:HB2	13:a:1198:THR:HG22	1.74	0.70
5:g:24:TYR:HB3	15:f:735:ARG:HH12	1.48	0.70
7:E:318:VAL:N	9:C:8:PRO:CB	2.42	0.70
4:R:592:LEU:HD12	3:S:743:LEU:HD13	1.73	0.70
1:H:491:ASP:HA	15:f:791:HIS:C	2.16	0.70
9:c:641:LEU:CD2	13:a:1121:LEU:C	2.61	0.70
11:O:469:SER:CB	11:Q:667:ILE:H	2.05	0.70
4:R:596:ARG:HG2	3:S:750:LEU:HD21	1.74	0.70
4:R:656:ASN:HB2	2:T:465:ILE:HG12	1.73	0.70
3:S:768:PHE:HB2	2:T:414:LEU:HD11	1.73	0.70
1:H:471:ARG:CD	15:f:896:ARG:NE	2.52	0.70
1:h:317:ASP:HB3	15:f:463:HIS:HD2	0.54	0.70
5:g:16:ILE:CB	15:f:303:LYS:CA	2.68	0.70
5:G:57:ASP:O	13:A:1378:TRP:HB2	1.91	0.70
7:E:32:SER:C	9:C:41:LYS:CG	2.64	0.70
9:c:638:ALA:O	13:a:1125:ASN:CG	2.35	0.70
10:U:1309:PRO:HD3	13:a:967:ASP:O	1.91	0.70
11:O:591:PHE:HZ	11:Q:591:PHE:HB2	1.57	0.70
11:O:790:SER:C	11:Q:597:TYR:OH	2.34	0.70
11:O:791:LYS:HG3	11:Q:597:TYR:CE2	2.25	0.70
4:R:526:ARG:HH12	2:T:369:LEU:CD2	2.04	0.70
9:c:577:LEU:HD11	9:c:629:LYS:HD3	1.73	0.70
11:O:460:ILE:CB	11:Q:703:GLN:H	1.98	0.70
1:H:719:GLU:CG	11:Q:10:ARG:CB	2.21	0.69
4:r:122:GLU:HB2	4:R:506:PRO:CG	2.21	0.69
7:e:92:GLU:OE1	8:d:121:TYR:HD2	1.71	0.69
8:D:260:GLU:CA	9:C:453:ARG:HH22	2.05	0.69
9:c:256:TRP:N	4:R:461:LEU:HD23	2.03	0.69
9:c:652:GLN:O	13:a:1074:ASN:ND2	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:458:LYS:HB2	11:Q:698:LEU:CG	2.20	0.69
11:O:594:GLN:HB2	11:Q:796:SER:CA	2.21	0.69
4:R:588:GLN:CD	2:T:390:LEU:CG	2.65	0.69
3:S:786:GLN:HE21	2:T:435:LEU:HD13	1.31	0.69
2:t:375:PHE:CE2	3:s:1750:LEU:HD22	2.12	0.69
7:e:7:ILE:HB	9:c:54:MET:H	1.55	0.69
9:c:299:MET:HE1	9:c:305:PHE:HD2	1.56	0.69
10:U:1307:ARG:O	13:a:967:ASP:HA	1.92	0.69
11:O:646:GLU:C	11:Q:789:PRO:HD3	2.12	0.69
11:O:787:ILE:HG13	11:Q:582:HIS:CB	2.21	0.69
13:a:1136:TRP:HE3	15:f:902:ASP:HA	1.57	0.69
3:s:1735:ILE:CG1	4:r:549:LEU:N	2.55	0.69
5:g:285:VAL:CG2	15:f:265:GLY:O	2.41	0.69
6:L:655:GLU:OE1	13:A:1250:GLN:N	2.10	0.69
6:l:1596:HIS:CE1	4:R:209:THR:HA	2.26	0.69
8:d:11:SER:CB	9:c:66:PRO:CB	2.70	0.69
11:O:601:CYS:SG	11:Q:790:SER:O	2.50	0.69
4:R:659:LEU:HD21	3:S:821:ASN:HA	1.73	0.69
3:S:786:GLN:CD	2:T:435:LEU:HD13	2.17	0.69
11:O:1:MET:HB2	15:f:567:GLU:CA	2.18	0.69
11:O:461:PHE:HB2	11:Q:706:PHE:H	1.54	0.69
11:O:477:GLU:HB3	11:Q:712:LYS:HE2	1.73	0.69
2:t:382:VAL:CG2	3:s:1758:SER:HA	2.14	0.69
4:r:95:LEU:CD1	4:R:519:HIS:HB3	2.21	0.69
5:G:291:SER:C	15:F:653:ARG:NH1	2.26	0.69
6:L:1482:ARG:NH2	9:C:87:GLU:CA	2.55	0.69
6:l:470:THR:CB	13:a:1261:GLU:OE1	2.38	0.69
9:c:323:HIS:CE1	4:R:129:LYS:HD3	2.23	0.69
9:c:521:ASP:CG	9:c:544:ARG:HH21	1.99	0.69
11:O:652:ALA:H	11:Q:789:PRO:HA	1.57	0.69
11:O:785:LEU:HA	11:Q:582:HIS:HD1	1.54	0.69
13:a:1167:SER:HB3	15:f:859:ARG:CZ	2.22	0.69
4:R:636:THR:CG2	2:T:450:HIS:ND1	2.45	0.69
3:S:824:VAL:CA	2:T:476:LEU:HD12	2.23	0.69
5:g:292:VAL:CG1	15:f:616:CYS:CA	2.69	0.69
6:l:618:HIS:HA	13:a:1312:HIS:HA	1.75	0.69
7:E:312:ASN:CB	9:C:1:MET:N	2.53	0.69
7:e:311:ASP:OD2	9:c:391:TYR:HB3	1.92	0.69
11:O:656:LEU:HD13	11:Q:793:ALA:HA	1.74	0.69
1:H:722:ALA:HA	11:Q:10:ARG:NH2	2.07	0.69
1:h:226:LEU:C	11:P:549:LYS:HB2	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D:146:GLU:O	9:C:480:ARG:CD	2.40	0.69
11:O:673:VAL:N	11:Q:787:ILE:HD13	2.07	0.69
11:O:782:PRO:HB2	11:Q:654:ALA:CB	2.22	0.69
13:a:1167:SER:HB3	15:f:859:ARG:NE	2.07	0.69
4:R:656:ASN:CB	2:T:465:ILE:HG12	2.23	0.69
4:R:666:ILE:HG13	3:S:828:VAL:HG21	1.60	0.69
1:H:465:GLU:HG3	11:N:23:ARG:HH12	0.52	0.69
5:G:16:ILE:HB	15:F:303:LYS:CB	2.22	0.69
5:G:271:ILE:CD1	15:F:697:ARG:NH2	2.56	0.69
6:L:465:GLU:CA	13:A:1197:SER:O	2.39	0.69
6:L:1247:ILE:CG2	13:A:1281:ASP:N	2.05	0.69
7:E:318:VAL:CA	9:C:8:PRO:HB2	2.21	0.69
8:D:129:ALA:HB1	9:C:480:ARG:HH22	1.53	0.69
9:C:645:ILE:CG2	13:A:1122:ALA:HB2	2.22	0.69
9:c:416:GLN:OE1	9:c:450:LYS:NZ	2.20	0.69
11:O:457:LEU:C	11:Q:702:GLU:C	2.56	0.69
11:O:592:TYR:H	11:Q:798:LYS:H	1.41	0.69
13:A:1172:ILE:CD1	15:F:901:GLU:C	2.59	0.69
4:R:555:ALA:HB1	3:S:712:GLU:CG	2.23	0.69
14:i:707:TRP:CH2	14:i:773:VAL:HG22	2.27	0.69
1:H:720:GLU:OE1	11:Q:7:GLU:CD	2.35	0.69
2:t:375:PHE:HB2	3:s:1750:LEU:HD13	1.75	0.69
5:g:271:ILE:N	15:f:255:TRP:O	2.26	0.69
5:g:292:VAL:HA	15:f:653:ARG:CZ	2.15	0.69
5:G:24:TYR:HB3	15:F:735:ARG:HH12	1.47	0.69
6:l:481:HIS:CD2	13:a:1203:GLY:H	2.11	0.69
7:e:282:TRP:CD2	9:c:39:TYR:CB	2.76	0.69
11:O:455:LYS:C	11:Q:698:LEU:CG	2.66	0.69
13:a:1169:GLN:NE2	15:f:855:GLU:OE2	2.26	0.69
4:R:544:PRO:CG	3:S:701:GLU:CB	2.71	0.69
4:R:555:ALA:CB	3:S:712:GLU:CG	2.71	0.69
5:g:26:ILE:HG13	15:f:735:ARG:NH2	2.03	0.69
6:l:470:THR:CG2	13:a:1194:HIS:NE2	2.56	0.69
7:e:18:VAL:CG2	9:c:35:TYR:CD1	2.65	0.69
7:e:282:TRP:CZ3	9:c:39:TYR:HB3	2.28	0.69
9:c:254:LEU:C	4:R:461:LEU:HD23	2.18	0.69
11:O:461:PHE:CG	11:Q:702:GLU:C	2.71	0.69
4:R:443:PRO:HG3	2:T:358:LEU:HD11	1.75	0.69
2:t:358:GLU:HB2	4:r:443:PRO:HG2	1.72	0.68
3:s:1739:ILE:CB	4:r:552:LEU:CD1	2.39	0.68
6:L:1247:ILE:HB	13:A:1278:SER:O	1.88	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:e:5:ARG:HB3	9:c:56:LEU:N	2.07	0.68
9:c:254:LEU:CG	4:R:459:SER:HA	2.18	0.68
11:O:468:THR:C	11:Q:663:THR:CB	2.65	0.68
11:O:780:PRO:CB	11:Q:656:LEU:C	2.66	0.68
11:M:35:LEU:HD11	15:F:436:ARG:HE	1.58	0.68
12:B:120:ILE:CG2	13:A:520:GLN:HE22	2.01	0.68
13:A:1136:TRP:HE3	15:F:902:ASP:HA	1.58	0.68
4:R:670:ASN:OD1	2:T:479:VAL:HG11	1.91	0.68
3:S:831:VAL:CG2	2:T:480:ILE:HG13	2.20	0.68
7:e:314:LYS:CE	9:c:3:GLU:OE2	2.41	0.68
8:d:127:MET:CE	9:c:478:ASN:HA	2.23	0.68
8:d:365:GLU:CA	9:c:69:ARG:NH2	2.56	0.68
11:O:784:LYS:HE2	11:Q:647:ASP:CA	2.22	0.68
12:b:223:ARG:CD	13:a:920:HIS:CG	2.63	0.68
13:A:1167:SER:HB3	15:F:859:ARG:CZ	2.23	0.68
4:R:609:LEU:HD11	2:T:415:ASP:CA	2.15	0.68
4:R:676:GLN:HE22	3:S:839:TRP:CG	2.11	0.68
5:g:270:SER:CA	15:f:255:TRP:N	2.35	0.68
5:g:279:SER:CB	15:f:265:GLY:N	2.56	0.68
5:G:287:LEU:HD21	15:F:261:LEU:HD23	1.71	0.68
7:E:310:MET:HA	9:C:391:TYR:CE2	2.22	0.68
9:c:390:LEU:HD12	9:c:394:ALA:O	1.93	0.68
4:R:363:PHE:CD1	4:R:551:LEU:CB	2.69	0.68
4:R:555:ALA:C	3:S:712:GLU:OE1	2.36	0.68
4:R:574:ILE:CD1	2:T:376:PHE:CE2	2.61	0.68
5:g:16:ILE:HB	15:f:303:LYS:CB	2.23	0.68
5:G:287:LEU:CG	15:F:268:LEU:CD1	2.70	0.68
8:D:13:LYS:HZ2	9:C:413:SER:HA	1.57	0.68
9:C:638:ALA:HB2	13:A:1128:ARG:CD	2.23	0.68
11:O:459:GLN:O	11:Q:703:GLN:NE2	2.26	0.68
12:B:223:ARG:CD	13:A:920:HIS:CG	2.63	0.68
1:h:225:ALA:HB3	11:P:545:GLY:O	1.92	0.68
2:t:372:GLU:CG	4:r:526:ARG:HH22	2.05	0.68
6:L:1526:ASP:OD1	9:C:92:LYS:CE	2.30	0.68
7:E:274:PHE:CZ	9:C:3:GLU:CD	2.48	0.68
10:U:1359:VAL:HG22	13:a:1027:ASP:HB3	1.76	0.68
11:O:595:LYS:C	11:Q:795:PHE:CD2	2.44	0.68
13:A:1055:ASN:ND2	15:F:917:ARG:HH21	1.91	0.68
4:R:501:SER:CB	2:T:392:GLN:HE22	2.05	0.68
5:g:36:SER:N	13:a:1378:TRP:CH2	2.50	0.68
5:g:287:LEU:CG	15:f:268:LEU:HD13	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:e:7:ILE:HD12	9:c:54:MET:HB2	1.75	0.68
7:e:302:VAL:HG21	9:c:34:LEU:HD22	1.75	0.68
8:D:279:GLU:CD	9:C:450:LYS:HG2	2.19	0.68
11:O:464:VAL:HG23	11:Q:708:GLU:H	1.59	0.68
4:r:119:MET:CA	4:R:511:ASP:H	2.06	0.68
6:L:748:ALA:HB1	8:d:321:LEU:HD13	1.74	0.68
7:E:2:PHE:CB	9:C:11:THR:HG1	1.92	0.68
8:D:211:THR:HG23	8:D:249:MET:CE	2.24	0.68
9:c:527:MET:HG2	9:c:534:THR:HA	1.76	0.68
11:O:662:LYS:HG2	11:Q:592:TYR:HD1	1.58	0.68
4:R:503:GLU:CD	2:T:392:GLN:CG	2.67	0.68
5:G:287:LEU:CG	15:F:268:LEU:HD13	2.22	0.68
8:d:211:THR:HG23	8:d:249:MET:CE	2.24	0.68
9:c:106:ARG:CZ	9:c:145:ASN:OD1	2.42	0.68
9:c:653:GLU:OE1	13:a:1078:LEU:N	2.26	0.68
11:O:466:GLN:HA	11:Q:693:ILE:HG13	1.74	0.68
11:O:787:ILE:CB	11:Q:579:ARG:O	2.42	0.68
4:R:584:GLN:HE21	2:T:390:LEU:CD2	2.07	0.68
1:H:322:GLN:NE2	11:M:1:MET:HG3	1.99	0.68
6:L:1253:LEU:CD1	13:A:1275:LYS:O	2.41	0.68
7:e:7:ILE:H	9:c:53:PHE:C	2.00	0.68
7:e:282:TRP:CZ2	9:c:39:TYR:HB2	2.29	0.68
9:C:641:LEU:HD21	13:A:1121:LEU:CD1	2.17	0.68
11:O:12:VAL:HA	15:f:586:GLY:H	1.58	0.68
11:O:782:PRO:HG3	11:Q:669:ALA:HB2	1.75	0.68
13:A:1169:GLN:NE2	15:F:855:GLU:OE2	2.27	0.68
13:a:1055:ASN:ND2	15:f:917:ARG:HH21	1.91	0.68
1:H:491:ASP:HB2	15:f:753:ASN:ND2	2.08	0.68
5:G:271:ILE:N	15:F:255:TRP:O	2.27	0.68
5:G:285:VAL:CG2	15:F:265:GLY:O	2.42	0.68
6:L:1485:CYS:HB2	9:C:90:SER:HB2	1.74	0.68
7:E:12:LYS:CG	9:C:48:ALA:O	2.40	0.68
7:e:91:GLY:C	8:d:127:MET:HG3	2.19	0.68
7:e:321:GLY:HA2	9:c:16:LEU:CD2	2.23	0.68
9:c:253:GLU:O	4:R:461:LEU:CD2	2.34	0.68
11:O:593:ASP:OD1	11:Q:692:GLU:CG	2.39	0.68
4:R:581:LEU:CD1	3:S:734:VAL:HG21	2.24	0.68
4:R:599:ARG:HH11	3:S:753:PHE:CD2	1.49	0.68
4:R:605:THR:C	2:T:411:GLN:HE21	1.96	0.68
4:R:613:PHE:CD2	3:S:768:PHE:CG	2.78	0.68
2:t:364:TRP:CB	3:s:1743:ILE:HD12	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:122:GLU:OE1	4:R:506:PRO:HA	1.93	0.67
6:l:1471:SER:HA	8:d:302:ARG:CZ	2.24	0.67
7:E:309:TYR:HB2	9:C:390:LEU:CD1	2.24	0.67
9:c:434:LYS:HA	9:c:460:MET:CE	2.25	0.67
11:M:35:LEU:HG	15:F:436:ARG:CZ	2.24	0.67
4:R:578:VAL:HG21	3:S:732:PHE:CG	2.27	0.67
4:R:676:GLN:NE2	3:S:839:TRP:CG	2.61	0.67
6:L:436:LEU:HD21	6:L:498:MET:HE1	1.76	0.67
8:D:11:SER:HB3	9:C:66:PRO:CB	2.23	0.67
8:D:191:GLN:OE1	9:C:518:ASP:HB3	1.92	0.67
4:R:543:PRO:HA	3:S:701:GLU:C	2.18	0.67
4:R:662:LEU:CD2	3:S:825:LYS:HA	2.19	0.67
3:S:768:PHE:CG	2:T:414:LEU:HD11	2.29	0.67
2:t:368:LEU:HD23	4:r:530:ASN:HB2	1.76	0.67
5:g:26:ILE:CD1	15:f:735:ARG:CZ	2.67	0.67
7:e:18:VAL:HG11	9:c:33:LEU:CD2	2.23	0.67
7:e:231:LEU:C	9:c:431:GLU:HG2	2.18	0.67
11:O:463:ARG:CD	11:Q:707:GLN:OE1	2.42	0.67
12:B:219:ARG:HH11	13:A:917:GLY:N	1.93	0.67
4:R:490:PRO:HD3	2:T:373:GLU:O	1.94	0.67
3:S:751:HIS:CE1	2:T:400:LEU:CD2	2.49	0.67
1:H:166:ILE:HD11	1:H:547:PHE:CE2	2.29	0.67
5:G:14:ASP:CB	13:A:1382:SER:N	2.26	0.67
7:E:148:MET:HE2	9:C:503:ARG:HE	1.59	0.67
9:c:256:TRP:HB3	4:R:461:LEU:CD2	2.22	0.67
9:c:653:GLU:HG2	13:a:1074:ASN:HB2	1.76	0.67
11:O:481:LEU:HD22	11:Q:693:ILE:HG23	1.75	0.67
4:R:490:PRO:O	2:T:377:LEU:HA	1.93	0.67
3:S:824:VAL:HA	2:T:476:LEU:HD12	1.77	0.67
3:S:835:LEU:HG	2:T:483:LEU:HD11	1.76	0.67
5:g:24:TYR:CE2	15:f:735:ARG:HD3	2.30	0.67
6:L:1485:CYS:CB	9:C:90:SER:HB2	2.24	0.67
9:c:416:GLN:NE2	9:c:450:LYS:CE	2.58	0.67
4:R:541:SER:CB	3:S:699:THR:HA	1.99	0.67
4:R:578:VAL:HG23	3:S:732:PHE:CG	2.29	0.67
1:H:715:TYR:HD1	11:Q:11:TYR:HA	1.58	0.67
5:g:16:ILE:HB	15:f:303:LYS:HA	1.74	0.67
5:G:285:VAL:CG2	15:F:265:GLY:CA	2.55	0.67
6:L:1703:LEU:HD22	9:C:251:GLU:HG3	1.72	0.67
6:l:466:PRO:HG2	13:a:1213:LEU:HD22	1.76	0.67
7:E:20:PHE:HE2	9:C:26:SER:O	1.70	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:37:LYS:NZ	9:C:50:ARG:HG2	2.09	0.67
10:U:1388:SER:OXT	13:a:1148:ARG:CD	2.41	0.67
11:O:780:PRO:CB	11:Q:656:LEU:O	2.42	0.67
4:R:532:LEU:C	2:T:358:LEU:O	2.32	0.67
7:e:148:MET:HG3	9:c:499:LEU:CG	2.25	0.67
8:d:11:SER:C	9:c:69:ARG:NE	2.53	0.67
9:c:416:GLN:CD	9:c:450:LYS:HE2	2.19	0.67
11:O:12:VAL:N	15:f:586:GLY:CA	2.58	0.67
11:O:782:PRO:CD	11:Q:777:HIS:ND1	2.51	0.67
4:R:447:ARG:CZ	3:S:706:LEU:CD1	2.73	0.67
4:R:477:ILE:HD12	2:T:359:GLU:CD	2.17	0.67
3:S:775:ASN:ND2	2:T:425:GLN:NE2	2.42	0.67
1:H:491:ASP:CB	15:f:793:GLN:H	2.02	0.67
5:G:26:ILE:HG13	15:F:735:ARG:NH2	2.02	0.67
6:L:673:VAL:HG11	13:A:1397:ASN:ND2	2.09	0.67
6:l:173:PHE:CE2	10:U:1128:MET:HG2	2.28	0.67
7:e:6:SER:OG	9:c:55:TYR:CZ	2.48	0.67
8:D:146:GLU:C	9:C:480:ARG:NE	2.53	0.67
9:c:110:ARG:HD3	9:c:113:MET:CE	2.25	0.67
4:R:588:GLN:OE1	2:T:390:LEU:HD11	1.93	0.67
3:S:817:ILE:HG21	2:T:465:ILE:HG22	1.77	0.67
3:s:1728:VAL:CG1	4:r:542:SER:O	2.39	0.67
3:s:1739:ILE:HG12	4:r:552:LEU:CA	2.24	0.67
5:G:26:ILE:CG1	15:F:735:ARG:HH21	2.02	0.67
6:L:1244:MET:HG3	13:A:1285:ARG:CG	2.25	0.67
6:L:1639:GLN:HA	9:C:246:THR:HG21	1.77	0.67
6:l:1471:SER:CB	8:d:302:ARG:NH2	2.51	0.67
7:E:91:GLY:C	8:D:127:MET:HG3	2.19	0.67
7:e:148:MET:CG	9:c:499:LEU:HD21	2.24	0.67
9:C:641:LEU:CD2	13:A:1121:LEU:HD12	2.24	0.67
9:c:624:SER:HB3	11:M:14:ASN:CG	2.19	0.67
11:O:784:LYS:N	11:Q:652:ALA:HB3	1.82	0.67
13:a:1172:ILE:HD13	15:f:901:GLU:O	1.94	0.67
4:R:577:ARG:NH2	2:T:387:ASP:HB3	2.08	0.67
4:R:656:ASN:HB2	2:T:465:ILE:HD13	1.75	0.67
7:e:91:GLY:HA3	8:d:125:SER:HB2	1.72	0.67
13:a:1167:SER:HG	15:f:859:ARG:NH2	1.87	0.67
4:R:443:PRO:HG3	3:S:709:ILE:HD13	1.77	0.67
2:t:366:LEU:HG	4:r:532:LEU:CD1	2.24	0.66
2:t:378:GLN:HB2	3:s:1754:LYS:HD3	0.96	0.66
5:g:14:ASP:HB2	13:a:1381:TYR:N	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:24:TYR:CE2	15:F:735:ARG:HD3	2.30	0.66
5:G:26:ILE:CD1	15:F:735:ARG:CZ	2.65	0.66
7:E:312:ASN:ND2	9:C:1:MET:C	2.50	0.66
7:E:314:LYS:HG2	9:C:3:GLU:HA	0.68	0.66
7:e:282:TRP:CD2	9:c:39:TYR:CD2	2.82	0.66
8:d:13:LYS:HZ1	9:c:413:SER:HA	1.59	0.66
9:c:619:GLN:CG	11:M:10:ARG:HD2	2.14	0.66
11:O:470:ARG:NH2	11:Q:671:GLU:CA	2.28	0.66
11:O:784:LYS:HE3	11:Q:650:CYS:CB	2.24	0.66
12:B:221:THR:N	13:A:921:LYS:H	1.93	0.66
4:R:447:ARG:NH2	3:S:706:LEU:CG	2.57	0.66
4:r:146:PRO:HD2	4:R:505:LEU:CD2	2.26	0.66
5:g:271:ILE:CD1	15:f:697:ARG:NH2	2.57	0.66
7:E:231:LEU:HD21	9:C:435:LEU:CB	2.25	0.66
9:C:645:ILE:CG1	13:A:1122:ALA:HB2	2.24	0.66
10:U:1313:ARG:CD	13:a:798:SER:N	2.57	0.66
10:U:1363:SER:CB	13:a:997:THR:HB	2.26	0.66
11:O:13:GLU:N	15:f:584:SER:CB	2.46	0.66
11:O:658:LEU:HA	11:Q:592:TYR:OH	1.95	0.66
12:b:219:ARG:HH11	13:a:917:GLY:N	1.93	0.66
4:R:490:PRO:CB	2:T:378:GLN:H	1.99	0.66
7:E:18:VAL:HG21	9:C:24:GLY:CA	2.24	0.66
8:d:9:PHE:CA	9:c:70:LYS:HE2	2.26	0.66
10:U:1362:GLN:CB	13:a:1024:ARG:CG	2.39	0.66
11:O:36:TYR:N	15:f:587:ASP:CB	2.59	0.66
11:O:469:SER:OG	11:Q:667:ILE:CB	2.44	0.66
11:O:481:LEU:HD13	11:Q:693:ILE:HA	1.69	0.66
11:O:538:ILE:HB	11:Q:704:GLU:HB3	1.77	0.66
11:O:792:SER:N	11:Q:454:ARG:CZ	2.59	0.66
13:A:1167:SER:HB3	15:F:859:ARG:NE	2.08	0.66
4:R:493:LEU:HB3	2:T:382:GLN:HG2	1.76	0.66
4:R:626:ARG:HH21	2:T:433:THR:HA	1.58	0.66
6:l:436:LEU:HD21	6:l:498:MET:HE1	1.77	0.66
9:c:265:ARG:HG3	2:T:378:GLN:HE21	1.59	0.66
10:U:1307:ARG:HE	13:a:1001:LYS:HZ1	1.44	0.66
4:R:577:ARG:HH21	2:T:387:ASP:HB2	1.58	0.66
4:R:635:HIS:CG	2:T:453:GLU:HB2	2.31	0.66
1:H:719:GLU:CD	11:Q:10:ARG:HB2	2.17	0.66
5:g:24:TYR:CD2	15:f:735:ARG:NE	2.61	0.66
6:l:466:PRO:CD	13:a:1213:LEU:HD22	2.20	0.66
6:l:617:GLU:HB3	13:a:1314:VAL:HG23	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:231:LEU:HD21	9:C:435:LEU:CG	2.23	0.66
8:d:9:PHE:HB3	9:c:70:LYS:CD	2.25	0.66
9:c:600:ARG:HH12	13:a:1190:THR:HG21	1.60	0.66
11:O:458:LYS:HZ2	11:Q:691:GLU:C	1.99	0.66
11:O:458:LYS:HB2	11:Q:698:LEU:HD21	1.78	0.66
12:B:219:ARG:NE	13:A:917:GLY:HA2	2.10	0.66
4:R:635:HIS:HB3	2:T:453:GLU:CD	2.20	0.66
6:l:172:ARG:CB	10:U:1127:THR:CB	2.58	0.66
11:O:459:GLN:CB	11:Q:698:LEU:HB2	2.26	0.66
11:O:776:LYS:CB	11:Q:780:PRO:C	2.68	0.66
13:A:32:THR:HG22	13:A:35:ILE:HD12	1.77	0.66
13:A:1169:GLN:CD	15:F:855:GLU:OE1	2.39	0.66
1:h:166:ILE:HD11	1:h:547:PHE:CE2	2.29	0.66
4:r:145:ILE:CG1	4:R:506:PRO:O	2.42	0.66
5:g:13:GLU:OE2	13:a:1383:ALA:HB3	1.91	0.66
5:g:287:LEU:HG	15:f:268:LEU:HD11	1.78	0.66
6:L:655:GLU:CD	13:A:1247:ARG:O	2.39	0.66
6:L:777:PRO:O	7:E:258:SER:HA	1.93	0.66
7:E:32:SER:CB	9:C:41:LYS:N	2.59	0.66
7:e:92:GLU:CD	8:d:121:TYR:CD2	2.73	0.66
11:O:461:PHE:CB	11:Q:706:PHE:N	2.45	0.66
11:M:91:PRO:CG	15:F:586:GLY:HA2	2.26	0.66
13:A:1172:ILE:HD13	15:F:901:GLU:O	1.94	0.66
4:R:392:HIS:CD2	4:R:457:ILE:HD11	2.31	0.66
4:R:493:LEU:N	2:T:380:ALA:O	2.29	0.66
4:R:581:LEU:HD13	3:S:734:VAL:HG21	1.78	0.66
1:H:315:ASP:HB2	15:F:464:ARG:CB	2.19	0.66
1:H:364:TRP:HB2	15:F:467:LEU:HD23	1.77	0.66
1:H:720:GLU:N	11:Q:7:GLU:HG2	2.11	0.66
1:h:723:MET:HE1	11:P:333:VAL:HG13	1.76	0.66
6:L:1523:VAL:HG23	9:C:93:SER:H	1.59	0.66
6:l:617:GLU:O	13:a:1314:VAL:N	2.28	0.66
6:l:1246:ALA:H	13:a:1276:GLU:HG3	1.60	0.66
8:D:260:GLU:HB2	9:C:453:ARG:NH2	2.08	0.66
8:d:365:GLU:HB3	9:c:69:ARG:HH21	0.83	0.66
9:C:641:LEU:HD21	13:A:1121:LEU:CA	2.25	0.66
9:c:162:ILE:HD11	9:c:241:LEU:O	1.95	0.66
12:b:221:THR:N	13:a:921:LYS:H	1.93	0.66
4:R:653:GLN:HG2	2:T:461:LEU:HD21	1.77	0.66
1:H:711:ILE:HG22	11:Q:11:TYR:OH	1.95	0.66
6:L:659:SER:CA	13:A:1313:GLY:CA	2.72	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:673:VAL:CG1	13:A:1397:ASN:CB	2.70	0.66
7:e:4:ALA:CB	9:c:13:ILE:CD1	2.27	0.66
9:c:254:LEU:CG	4:R:459:SER:CA	2.71	0.66
9:c:254:LEU:CD2	4:R:459:SER:HA	2.26	0.66
15:F:359:VAL:HG11	15:F:377:GLY:CA	2.25	0.66
3:S:835:LEU:CD2	2:T:483:LEU:HD11	2.26	0.66
6:L:679:ARG:NH2	8:d:88:ARG:HH21	1.94	0.66
9:c:255:LYS:N	4:R:461:LEU:CD2	2.58	0.66
9:c:320:THR:HG22	4:R:128:GLY:CA	2.25	0.66
13:a:1136:TRP:CE3	15:f:902:ASP:CA	2.79	0.66
13:a:1138:VAL:HG22	15:f:902:ASP:O	1.96	0.66
15:f:359:VAL:HG11	15:f:377:GLY:CA	2.25	0.66
4:R:363:PHE:HE1	4:R:551:LEU:HD12	1.43	0.66
4:R:649:LYS:HD2	2:T:458:THR:OG1	1.94	0.66
1:H:465:GLU:CD	11:N:23:ARG:CZ	2.69	0.65
2:t:357:LEU:CD2	4:r:543:PRO:HG2	2.25	0.65
8:D:189:VAL:HG12	9:C:519:LEU:CD1	2.04	0.65
11:O:466:GLN:CG	11:Q:692:GLU:OE2	2.45	0.65
11:O:792:SER:HA	11:Q:588:LEU:HD22	1.49	0.65
4:R:501:SER:HB3	2:T:392:GLN:NE2	2.08	0.65
4:R:543:PRO:CA	3:S:701:GLU:O	2.43	0.65
4:R:581:LEU:HD11	2:T:383:VAL:HG13	1.59	0.65
1:H:491:ASP:CA	15:f:791:HIS:O	2.39	0.65
1:H:716:SER:HB2	11:Q:3:ARG:CG	2.14	0.65
6:l:40:ASP:CA	10:U:1130:THR:HG23	2.26	0.65
9:c:255:LYS:N	4:R:461:LEU:HD23	2.11	0.65
11:O:461:PHE:CD2	11:Q:702:GLU:CA	2.60	0.65
11:O:484:LEU:HD13	11:Q:701:GLU:C	2.21	0.65
11:O:776:LYS:HB2	11:Q:780:PRO:C	2.21	0.65
12:b:219:ARG:NE	13:a:917:GLY:HA2	2.10	0.65
12:b:223:ARG:HG3	13:a:920:HIS:CG	2.31	0.65
13:a:1169:GLN:CD	15:f:855:GLU:OE1	2.39	0.65
4:R:443:PRO:HG3	2:T:358:LEU:CD1	2.25	0.65
4:R:446:CYS:SG	3:S:701:GLU:O	2.54	0.65
4:R:490:PRO:CD	2:T:373:GLU:O	2.44	0.65
5:G:275:ILE:CG2	15:F:255:TRP:NE1	2.59	0.65
7:E:92:GLU:OE1	8:D:121:TYR:HD2	1.71	0.65
11:O:786:THR:HG22	11:Q:578:ALA:CB	2.21	0.65
12:B:220:ASN:HA	13:A:921:LYS:H	1.61	0.65
7:E:92:GLU:CD	8:D:121:TYR:CD2	2.73	0.65
4:R:494:CYS:HA	2:T:386:TRP:H	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:496:GLN:CA	2:T:385:ALA:HB1	2.25	0.65
4:R:620:GLN:OE1	2:T:425:GLN:CG	2.43	0.65
4:R:666:ILE:CD1	2:T:476:LEU:HD11	2.25	0.65
3:S:768:PHE:CB	2:T:414:LEU:HD11	2.26	0.65
5:g:16:ILE:HG21	15:f:303:LYS:HA	1.70	0.65
5:g:285:VAL:CG2	15:f:265:GLY:CA	2.57	0.65
6:L:1485:CYS:HB2	9:C:90:SER:CB	2.27	0.65
13:a:1169:GLN:CG	15:f:855:GLU:OE2	2.44	0.65
1:H:716:SER:OG	11:Q:3:ARG:CB	2.44	0.65
1:h:226:LEU:CD1	11:P:547:SER:C	2.39	0.65
1:h:316:PRO:CD	15:f:464:ARG:NE	2.55	0.65
5:g:272:THR:HG21	15:f:663:ALA:HB2	1.78	0.65
5:g:279:SER:CB	15:f:265:GLY:HA3	2.26	0.65
7:E:14:LEU:CD1	9:C:40:GLN:CG	2.74	0.65
9:C:596:TYR:CZ	13:A:1182:TYR:CE2	2.83	0.65
9:C:641:LEU:HD23	13:A:1125:ASN:OD1	1.96	0.65
11:O:35:LEU:HD12	15:f:586:GLY:C	2.20	0.65
13:A:1172:ILE:CD1	15:F:904:ALA:N	2.58	0.65
4:R:578:VAL:CG2	3:S:732:PHE:HA	2.23	0.65
4:R:599:ARG:HB2	2:T:404:MET:HE1	1.79	0.65
1:H:315:ASP:HB2	15:F:464:ARG:HB2	1.79	0.65
2:t:372:GLU:CG	4:r:526:ARG:NH2	2.60	0.65
5:G:16:ILE:HG21	15:F:303:LYS:HA	1.69	0.65
6:L:466:PRO:HB2	13:A:1196:PRO:HG2	1.78	0.65
11:O:773:SER:HB2	11:Q:782:PRO:HB2	1.77	0.65
11:O:780:PRO:HG2	11:Q:657:ASP:CA	2.27	0.65
12:B:223:ARG:HG3	13:A:920:HIS:CG	2.31	0.65
4:R:634:PHE:CD2	2:T:439:VAL:HG11	1.30	0.65
5:G:59:PRO:N	13:A:1378:TRP:NE1	2.44	0.65
6:L:1482:ARG:NH2	9:C:87:GLU:HA	2.11	0.65
6:L:1695:LEU:N	9:C:252:PHE:HA	2.10	0.65
6:l:617:GLU:CD	13:a:1250:GLN:HG2	2.20	0.65
4:R:501:SER:CB	2:T:392:GLN:HE21	2.03	0.65
7:e:300:GLY:O	9:c:23:ILE:HD11	1.89	0.65
11:O:469:SER:N	11:Q:663:THR:HB	2.12	0.65
11:O:481:LEU:H	11:Q:693:ILE:HD11	1.60	0.65
11:O:646:GLU:C	11:Q:789:PRO:HD2	2.22	0.65
11:O:662:LYS:HE3	11:Q:595:LYS:CD	2.27	0.65
11:O:779:THR:HA	11:Q:660:ASP:HB3	1.79	0.65
4:R:477:ILE:HD13	2:T:359:GLU:CD	2.20	0.65
4:R:666:ILE:CG1	3:S:828:VAL:CB	2.66	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:120:VAL:H	4:R:509:LEU:C	1.94	0.65
5:G:279:SER:CB	15:F:265:GLY:N	2.60	0.65
6:l:1471:SER:HB2	8:d:302:ARG:NH2	2.12	0.65
7:E:12:LYS:HG2	9:C:48:ALA:N	1.87	0.65
9:c:573:LEU:HB2	9:c:605:ARG:NH2	2.10	0.65
11:O:455:LYS:HA	11:Q:695:ASN:C	2.22	0.65
11:O:469:SER:H	11:Q:667:ILE:HD11	1.58	0.65
11:O:784:LYS:HE3	11:Q:650:CYS:SG	2.36	0.65
13:A:1169:GLN:CG	15:F:855:GLU:OE2	2.45	0.65
13:a:951:VAL:HG13	13:a:955:LEU:HD23	1.79	0.65
4:R:363:PHE:CD1	4:R:551:LEU:CA	2.79	0.65
4:R:555:ALA:CA	3:S:712:GLU:OE1	2.44	0.65
1:H:313:GLU:HG3	11:M:1:MET:CA	2.27	0.64
6:l:480:ALA:C	13:a:1200:ALA:N	1.69	0.64
7:e:91:GLY:HA2	8:d:125:SER:CB	2.18	0.64
4:R:443:PRO:HB2	3:S:709:ILE:CD1	2.27	0.64
4:R:616:ALA:HB2	2:T:422:LEU:CD1	2.26	0.64
7:E:309:TYR:HB2	9:C:390:LEU:HB3	1.79	0.64
7:E:318:VAL:HB	9:C:8:PRO:O	1.96	0.64
9:c:620:LYS:C	11:M:13:GLU:CD	2.65	0.64
4:R:555:ALA:HB3	3:S:712:GLU:OE2	1.97	0.64
3:S:754:PHE:CD1	2:T:404:MET:HB2	2.30	0.64
3:S:824:VAL:HG12	2:T:476:LEU:HD11	1.78	0.64
4:r:392:HIS:CD2	4:r:457:ILE:HD11	2.31	0.64
7:E:309:TYR:HB2	9:C:390:LEU:HD22	0.78	0.64
7:e:288:ILE:O	9:c:435:LEU:HD21	1.98	0.64
11:O:8:ILE:CG2	15:f:587:ASP:N	2.50	0.64
11:O:773:SER:C	11:Q:782:PRO:O	2.41	0.64
12:b:220:ASN:HA	13:a:921:LYS:H	1.61	0.64
13:A:951:VAL:HG13	13:A:955:LEU:HD23	1.79	0.64
4:R:490:PRO:CB	2:T:374:LYS:O	2.40	0.64
4:R:673:MET:HG2	3:S:835:LEU:HD13	1.77	0.64
3:S:824:VAL:HG22	2:T:473:ALA:N	2.12	0.64
5:g:2:VAL:HG22	15:f:309:LEU:HD12	0.64	0.64
6:L:1244:MET:C	13:A:1285:ARG:NH1	2.55	0.64
6:l:470:THR:CG2	13:a:1261:GLU:OE1	2.46	0.64
6:l:617:GLU:OE1	13:a:1250:GLN:HG2	1.98	0.64
7:E:7:ILE:HG13	9:C:55:TYR:HD2	1.57	0.64
7:E:37:LYS:HZ1	9:C:50:ARG:HG2	1.62	0.64
8:D:16:ARG:NH2	9:C:446:LYS:NZ	2.46	0.64
9:c:320:THR:CG2	4:R:128:GLY:O	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:a:32:THR:HG22	13:a:35:ILE:HD12	1.77	0.64
4:R:490:PRO:O	2:T:381:THR:OG1	2.14	0.64
4:r:119:MET:HE3	4:R:512:VAL:HG21	1.79	0.64
4:r:144:THR:N	4:R:506:PRO:HD2	2.13	0.64
5:G:272:THR:HG21	15:F:663:ALA:HB2	1.79	0.64
6:L:1695:LEU:HG	9:C:247:GLN:HG3	1.79	0.64
6:l:43:LEU:C	10:U:1128:MET:O	2.40	0.64
8:D:260:GLU:CA	9:C:453:ARG:NH2	2.60	0.64
8:d:9:PHE:CZ	9:c:69:ARG:C	2.76	0.64
11:O:427:LEU:HD13	11:Q:698:LEU:C	2.21	0.64
12:b:223:ARG:CG	13:a:920:HIS:CG	2.81	0.64
4:R:477:ILE:HD13	2:T:359:GLU:OE2	1.97	0.64
4:R:620:GLN:HG2	3:S:775:ASN:OD1	1.98	0.64
1:H:118:ASP:CB	11:M:727:TYR:CE2	0.71	0.64
6:l:44:LYS:HG3	10:U:1128:MET:C	2.23	0.64
7:E:2:PHE:HD2	9:C:11:THR:HG1	1.45	0.64
7:E:8:ALA:HB2	9:C:53:PHE:CD2	2.33	0.64
7:e:4:ALA:N	9:c:13:ILE:CD1	2.60	0.64
4:R:543:PRO:HD3	3:S:706:LEU:CB	2.05	0.64
1:H:118:ASP:CG	11:M:727:TYR:CD2	2.54	0.64
1:H:131:VAL:CG2	11:Q:618:LYS:HZ1	2.11	0.64
7:E:7:ILE:C	9:C:53:PHE:HB2	2.09	0.64
7:e:282:TRP:CZ2	9:c:39:TYR:CB	2.81	0.64
8:d:9:PHE:HZ	9:c:69:ARG:C	2.06	0.64
13:A:1136:TRP:CE3	15:F:902:ASP:CA	2.79	0.64
2:t:375:PHE:CE2	3:s:1750:LEU:HD23	2.31	0.64
4:r:144:THR:O	4:R:509:LEU:HD12	1.95	0.64
5:G:24:TYR:CD2	15:F:735:ARG:NE	2.61	0.64
5:G:59:PRO:N	13:A:1378:TRP:CD1	2.65	0.64
7:e:288:ILE:HG13	9:c:439:ARG:NH2	2.13	0.64
9:c:359:ILE:HG23	9:c:372:VAL:CG1	2.26	0.64
11:O:780:PRO:HB3	11:Q:656:LEU:CD1	2.28	0.64
12:B:223:ARG:CG	13:A:920:HIS:CG	2.81	0.64
6:l:1245:ALA:HB1	13:a:1274:THR:C	2.21	0.64
8:d:189:VAL:HG12	9:c:519:LEU:CD1	2.27	0.64
11:O:31:LEU:HD11	15:f:589:PRO:C	2.23	0.64
11:O:788:SER:O	11:Q:585:GLY:N	2.30	0.64
4:R:577:ARG:HH22	2:T:387:ASP:CB	2.09	0.64
4:R:620:GLN:CG	3:S:775:ASN:OD1	2.46	0.64
1:H:234:ILE:CD1	11:N:34:ARG:CZ	2.74	0.64
5:G:16:ILE:HG22	15:F:303:LYS:N	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:275:ILE:CG2	15:F:255:TRP:HE1	2.11	0.64
9:c:256:TRP:HB3	4:R:461:LEU:CG	2.27	0.64
11:O:656:LEU:HD13	11:Q:793:ALA:CA	2.27	0.64
13:A:1138:VAL:HG22	15:F:902:ASP:O	1.97	0.64
14:I:560:ALA:HB1	14:I:576:PHE:CE1	2.33	0.64
4:R:363:PHE:HZ	4:R:551:LEU:HD22	1.62	0.64
4:R:603:THR:OG1	3:S:757:ILE:HD11	1.98	0.64
1:h:226:LEU:CB	11:P:549:LYS:HB3	2.14	0.63
5:G:14:ASP:CB	13:A:1381:TYR:C	2.62	0.63
9:c:532:ARG:NH1	9:c:568:PRO:CB	2.61	0.63
9:c:619:GLN:OE1	11:M:7:GLU:CA	2.32	0.63
11:O:467:GLU:H	11:Q:689:LYS:HG2	0.76	0.63
11:O:791:LYS:CB	11:Q:593:ASP:HB3	2.28	0.63
2:t:358:GLU:CD	4:r:443:PRO:HD2	2.23	0.63
6:l:613:LEU:CB	13:a:1250:GLN:HB2	2.02	0.63
7:e:302:VAL:HG21	9:c:34:LEU:CD2	2.28	0.63
7:e:309:TYR:HB2	9:c:390:LEU:HD22	0.64	0.63
11:O:458:LYS:CG	11:Q:693:ILE:HG22	2.26	0.63
4:R:543:PRO:HG3	3:S:702:SER:O	1.95	0.63
3:S:782:ILE:HG21	2:T:432:LEU:CD2	2.27	0.63
3:S:824:VAL:HG21	2:T:473:ALA:N	2.13	0.63
5:g:165:GLY:H	15:f:686:ILE:HD11	1.63	0.63
5:g:277:ALA:HB2	15:f:261:LEU:CD1	2.26	0.63
5:G:165:GLY:H	15:F:686:ILE:HD11	1.64	0.63
6:L:613:LEU:HD12	13:A:1247:ARG:HD3	1.75	0.63
7:E:148:MET:CE	9:C:476:LEU:HD21	2.28	0.63
10:U:1359:VAL:HG22	13:a:1028:CYS:N	2.14	0.63
11:O:458:LYS:CB	11:Q:698:LEU:HD21	2.28	0.63
11:O:470:ARG:HD3	11:Q:668:ILE:HG12	1.80	0.63
4:R:493:LEU:C	2:T:381:THR:O	2.42	0.63
4:R:493:LEU:O	2:T:385:ALA:HB3	1.99	0.63
1:H:716:SER:OG	11:Q:7:GLU:OE2	2.15	0.63
7:E:18:VAL:HG21	9:C:24:GLY:C	2.23	0.63
11:O:458:LYS:HB2	11:Q:695:ASN:H	1.61	0.63
11:O:464:VAL:O	11:Q:706:PHE:HA	1.98	0.63
11:O:469:SER:HG	11:Q:667:ILE:N	1.96	0.63
11:O:780:PRO:HG2	11:Q:657:ASP:HA	1.79	0.63
4:R:652:LEU:O	2:T:465:ILE:HD13	1.98	0.63
4:R:663:GLY:CA	2:T:472:MET:HE3	2.28	0.63
3:S:824:VAL:CA	2:T:476:LEU:CD1	2.77	0.63
3:s:1735:ILE:HG12	4:r:549:LEU:HG	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:275:ILE:CG2	15:f:255:TRP:NE1	2.61	0.63
6:L:1247:ILE:HG22	13:A:1279:ALA:C	2.23	0.63
7:e:282:TRP:CH2	9:c:39:TYR:HB3	2.33	0.63
9:c:321:GLU:N	4:R:130:LYS:HA	2.14	0.63
10:U:1385:GLU:HB2	13:a:1150:GLY:CA	2.28	0.63
11:O:31:LEU:CG	15:f:592:LYS:HE3	2.24	0.63
11:O:673:VAL:HG22	11:Q:787:ILE:CD1	2.19	0.63
11:M:35:LEU:HG	15:F:436:ARG:NH2	2.14	0.63
4:R:363:PHE:CD1	4:R:551:LEU:HA	2.33	0.63
4:R:365:THR:HA	4:R:550:GLN:CD	2.22	0.63
3:S:744:ARG:HH21	2:T:389:THR:HG21	1.54	0.63
3:S:831:VAL:HG23	2:T:480:ILE:CG1	2.27	0.63
2:t:358:GLU:CA	4:r:443:PRO:HG2	2.26	0.63
6:L:466:PRO:HG3	13:A:1196:PRO:C	2.20	0.63
6:L:1244:MET:CA	13:A:1285:ARG:NH2	2.54	0.63
8:d:189:VAL:HG11	9:c:519:LEU:HD12	1.80	0.63
11:O:466:GLN:HB2	11:Q:692:GLU:CB	2.02	0.63
11:O:469:SER:CB	11:Q:667:ILE:N	2.61	0.63
11:O:482:LEU:CD2	11:Q:794:ARG:CZ	2.63	0.63
11:O:786:THR:HB	11:Q:578:ALA:HA	1.76	0.63
4:R:620:GLN:CD	2:T:425:GLN:NE2	2.54	0.63
3:S:817:ILE:HG12	2:T:466:ASP:CA	2.28	0.63
1:H:722:ALA:N	11:Q:10:ARG:HH12	1.96	0.63
1:h:226:LEU:HB3	11:P:549:LYS:HB2	0.64	0.63
1:h:226:LEU:HD12	11:P:548:ALA:CB	1.82	0.63
5:g:59:PRO:N	13:a:1378:TRP:NE1	2.44	0.63
5:g:293:ASP:C	15:f:653:ARG:HH21	2.02	0.63
6:L:273:MET:HE2	6:L:385:PHE:HA	1.81	0.63
7:E:314:LYS:HD3	9:C:4:LEU:CB	2.28	0.63
7:e:309:TYR:CA	9:c:390:LEU:HD22	2.27	0.63
8:d:11:SER:CA	9:c:69:ARG:NE	2.61	0.63
9:C:641:LEU:HD21	13:A:1121:LEU:C	2.23	0.63
9:c:151:PHE:CD1	9:c:355:ILE:HD11	2.34	0.63
4:R:581:LEU:HB3	3:S:734:VAL:HG13	1.79	0.63
6:l:44:LYS:CE	10:U:1134:ASP:OD2	2.47	0.63
7:E:4:ALA:O	9:C:14:PRO:HD2	1.99	0.63
7:E:20:PHE:CE2	9:C:26:SER:N	2.55	0.63
8:D:12:HIS:HA	9:C:69:ARG:NH1	2.14	0.63
11:O:468:THR:HA	11:Q:667:ILE:CD1	2.29	0.63
11:O:652:ALA:HB1	11:Q:791:LYS:O	1.98	0.63
11:M:3:ARG:CD	15:F:435:GLU:HB3	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:B:88:ALA:HB1	13:A:499:LYS:HZ1	1.61	0.63
4:R:613:PHE:CD2	2:T:418:LEU:CD2	2.51	0.63
4:R:663:GLY:N	2:T:472:MET:HE3	2.14	0.63
3:S:824:VAL:CG2	2:T:473:ALA:CB	2.76	0.63
14:i:560:ALA:HB1	14:i:576:PHE:CE1	2.33	0.63
1:H:496:LEU:HD13	15:f:791:HIS:NE2	2.12	0.62
4:r:144:THR:O	4:R:505:LEU:HD21	1.98	0.62
5:g:59:PRO:N	13:a:1378:TRP:CD1	2.66	0.62
6:l:1201:PHE:CD1	13:a:1275:LYS:NZ	2.62	0.62
7:e:148:MET:CE	9:c:476:LEU:CD2	2.69	0.62
4:R:443:PRO:CB	3:S:709:ILE:CD1	2.77	0.62
4:R:482:LEU:HD23	2:T:370:GLU:OE2	1.88	0.62
2:t:364:TRP:CE2	3:s:1736:LEU:O	2.52	0.62
4:r:95:LEU:CB	4:R:519:HIS:CG	2.79	0.62
6:L:777:PRO:HB2	7:E:258:SER:HA	1.60	0.62
7:e:22:PHE:CE1	9:c:439:ARG:HA	2.34	0.62
9:C:642:ALA:N	13:A:1125:ASN:ND2	2.40	0.62
9:c:596:TYR:CZ	13:a:1117:VAL:O	2.51	0.62
9:c:599:MET:CE	13:a:1121:LEU:HD13	2.27	0.62
9:c:624:SER:CB	11:M:14:ASN:CA	2.66	0.62
9:c:625:ILE:H	11:M:17:ASN:HD22	1.46	0.62
10:U:1356:CYS:SG	13:a:1031:GLN:HG3	2.39	0.62
11:O:457:LEU:N	11:Q:698:LEU:HD22	2.13	0.62
3:S:716:PHE:CG	2:T:365:TRP:CH2	2.84	0.62
6:L:788:GLN:HA	13:A:1403:ILE:N	2.13	0.62
7:E:310:MET:HB2	9:C:1:MET:H1	1.64	0.62
7:e:20:PHE:HD2	9:c:26:SER:HG	1.47	0.62
8:d:11:SER:OG	9:c:66:PRO:C	2.43	0.62
9:c:313:LYS:O	4:R:462:PHE:HE1	1.82	0.62
11:O:463:ARG:HG3	11:Q:707:GLN:CD	2.24	0.62
11:O:592:TYR:CD2	11:Q:798:LYS:N	2.67	0.62
11:O:673:VAL:CA	11:Q:787:ILE:HD13	2.29	0.62
12:b:223:ARG:HH21	13:a:976:GLN:HE22	0.69	0.62
4:R:609:LEU:HD11	2:T:418:LEU:HD12	1.81	0.62
4:R:635:HIS:HD2	2:T:454:GLU:H	1.40	0.62
4:r:119:MET:HE3	4:R:512:VAL:CG2	2.28	0.62
7:E:309:TYR:CB	9:C:390:LEU:CG	2.56	0.62
7:e:148:MET:CE	9:c:503:ARG:NH2	2.57	0.62
10:U:1344:ARG:NH2	13:a:1148:ARG:HH21	1.97	0.62
11:O:1:MET:H1	15:f:566:GLY:N	1.96	0.62
11:O:12:VAL:N	15:f:585:LEU:C	2.54	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:471:LEU:CG	11:Q:664:GLU:HB2	2.26	0.62
4:R:635:HIS:CD2	2:T:451:ALA:C	2.77	0.62
1:H:312:SER:OG	11:M:1:MET:HA	1.99	0.62
1:H:719:GLU:HA	11:Q:10:ARG:HD2	1.82	0.62
2:t:358:GLU:CG	4:r:443:PRO:HD2	2.28	0.62
4:r:119:MET:HB2	4:R:512:VAL:HG23	0.64	0.62
5:G:2:VAL:HG22	15:F:309:LEU:HD12	0.62	0.62
5:G:14:ASP:HB2	13:A:1381:TYR:N	2.09	0.62
7:E:12:LYS:N	9:C:38:LEU:CD1	2.61	0.62
7:e:231:LEU:HD21	9:c:435:LEU:HD22	1.81	0.62
9:c:320:THR:HG22	4:R:128:GLY:N	2.15	0.62
4:R:659:LEU:O	2:T:472:MET:CE	2.47	0.62
6:l:617:GLU:OE2	13:a:1250:GLN:NE2	2.33	0.62
9:C:641:LEU:CD2	13:A:1121:LEU:O	2.48	0.62
9:c:257:GLN:HE22	4:R:463:LEU:CA	2.11	0.62
9:c:299:MET:O	9:c:300:THR:OG1	2.16	0.62
9:c:322:LEU:CD2	9:c:351:PHE:HD1	2.12	0.62
9:c:600:ARG:NH1	13:a:1190:THR:HG21	2.14	0.62
9:c:606:MET:SD	9:c:634:ARG:NH2	2.72	0.62
9:c:621:GLN:HE21	11:M:15:ALA:HB3	1.62	0.62
11:O:465:PRO:CB	11:Q:689:LYS:HB3	1.97	0.62
11:M:3:ARG:HD3	15:F:435:GLU:HB3	1.82	0.62
5:g:14:ASP:CA	13:a:1381:TYR:HD1	2.12	0.62
6:L:723:GLY:CA	13:A:1399:HIS:NE2	2.62	0.62
6:l:1596:HIS:CD2	4:R:209:THR:CB	2.53	0.62
7:e:7:ILE:HG21	9:c:54:MET:HE2	1.81	0.62
9:c:140:MET:HG2	9:c:362:PHE:CZ	2.35	0.62
9:c:320:THR:HG22	4:R:128:GLY:O	2.00	0.62
11:M:11:TYR:OH	15:F:432:TYR:C	2.42	0.62
2:t:382:VAL:HG21	3:s:1757:THR:OG1	1.99	0.62
5:g:59:PRO:N	13:a:1378:TRP:HE1	1.98	0.62
5:g:275:ILE:CG2	15:f:255:TRP:HE1	2.13	0.62
6:L:1518:SER:O	9:C:93:SER:CB	2.47	0.62
7:E:20:PHE:HB2	9:C:26:SER:OG	2.00	0.62
7:E:32:SER:C	9:C:41:LYS:HG3	2.25	0.62
7:e:321:GLY:CA	9:c:13:ILE:HB	2.24	0.62
9:c:316:THR:N	4:R:462:PHE:CE2	2.68	0.62
9:c:653:GLU:OE1	13:a:1078:LEU:HB2	1.99	0.62
5:g:271:ILE:H	15:f:255:TRP:HB2	1.63	0.62
5:G:13:GLU:OE2	13:A:1383:ALA:HB3	1.91	0.62
6:l:273:MET:HE2	6:l:385:PHE:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:617:GLU:C	13:a:1313:GLY:CA	2.69	0.62
7:e:282:TRP:CG	9:c:39:TYR:CG	2.88	0.62
9:c:621:GLN:HG2	11:M:15:ALA:N	2.13	0.62
10:U:1360:GLU:CG	13:a:1001:LYS:HD2	2.25	0.62
11:O:455:LYS:HA	11:Q:695:ASN:CA	2.30	0.62
11:O:662:LYS:CE	11:Q:595:LYS:HZ3	2.12	0.62
4:R:673:MET:HG2	3:S:835:LEU:CD1	2.17	0.62
1:h:317:ASP:HB2	15:f:463:HIS:CD2	2.26	0.62
2:t:378:GLN:OE1	3:s:1751:ASP:HA	2.00	0.62
4:r:143:ARG:O	4:R:506:PRO:HG2	1.71	0.62
5:G:14:ASP:CA	13:A:1381:TYR:HD1	2.12	0.62
8:D:9:PHE:CZ	9:C:70:LYS:HA	2.35	0.62
9:c:254:LEU:HG	4:R:460:ASP:N	2.13	0.62
11:O:656:LEU:HB2	11:Q:793:ALA:HB2	1.75	0.62
11:O:786:THR:CG2	11:Q:605:TRP:CE2	2.81	0.62
5:g:16:ILE:HG22	15:f:303:LYS:N	2.14	0.61
5:G:277:ALA:HB2	15:F:261:LEU:CD1	2.26	0.61
6:l:613:LEU:HB3	13:a:1250:GLN:CD	2.19	0.61
7:e:7:ILE:HD12	9:c:54:MET:HB3	1.82	0.61
7:e:282:TRP:CE3	9:c:39:TYR:HB3	2.35	0.61
4:R:489:SER:HB2	2:T:377:LEU:HD22	1.75	0.61
1:H:159:SER:OG	11:N:475:ILE:HG23	1.98	0.61
2:t:366:LEU:HD11	4:r:532:LEU:CD1	2.28	0.61
3:s:1731:GLU:OE1	4:r:546:GLU:N	2.32	0.61
4:r:96:PHE:HD1	4:R:512:VAL:HG13	1.58	0.61
5:g:292:VAL:HG11	15:f:616:CYS:HA	1.82	0.61
5:G:292:VAL:HG11	15:F:616:CYS:HA	1.81	0.61
10:U:1385:GLU:C	13:a:1150:GLY:CA	2.57	0.61
11:O:468:THR:C	11:Q:667:ILE:HD12	2.24	0.61
12:b:174:HIS:CD2	13:a:921:LYS:HZ3	2.18	0.61
3:S:782:ILE:HD11	2:T:432:LEU:HD11	1.78	0.61
2:t:363:LYS:HD3	3:s:1740:ARG:CD	2.26	0.61
3:s:1739:ILE:CD1	4:r:552:LEU:CA	2.78	0.61
4:r:95:LEU:CA	4:R:519:HIS:CD2	2.83	0.61
6:l:470:THR:CB	13:a:1194:HIS:HE1	2.11	0.61
7:e:319:LEU:CD2	9:c:57:VAL:HG11	2.30	0.61
11:O:463:ARG:HG3	11:Q:707:GLN:OE1	2.00	0.61
13:A:1169:GLN:CD	15:F:855:GLU:OE2	2.43	0.61
13:a:1169:GLN:CD	15:f:855:GLU:OE2	2.42	0.61
4:R:494:CYS:N	2:T:383:VAL:N	2.23	0.61
4:R:577:ARG:HH22	2:T:387:ASP:HB3	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:616:ALA:HB2	2:T:422:LEU:HD11	1.83	0.61
2:t:382:VAL:CG2	3:s:1758:SER:H	2.05	0.61
5:G:59:PRO:N	13:A:1378:TRP:HE1	1.98	0.61
7:e:6:SER:CA	9:c:55:TYR:CZ	2.74	0.61
7:e:231:LEU:HD11	9:c:435:LEU:HD22	1.82	0.61
12:B:221:THR:HG23	13:A:918:GLU:CB	2.29	0.61
4:R:578:VAL:CG2	3:S:732:PHE:CA	2.78	0.61
7:E:32:SER:HB3	9:C:41:LYS:N	2.15	0.61
7:e:7:ILE:CB	9:c:54:MET:CA	2.77	0.61
9:C:600:ARG:HH12	13:A:1190:THR:HG21	1.65	0.61
9:C:641:LEU:HD21	13:A:1121:LEU:O	2.01	0.61
11:O:3:ARG:HH12	15:f:589:PRO:HB3	1.59	0.61
11:O:459:GLN:HB3	11:Q:698:LEU:HB2	1.82	0.61
2:t:378:GLN:HB3	3:s:1754:LYS:HG2	1.67	0.61
6:L:617:GLU:HA	13:A:1312:HIS:CE1	2.35	0.61
6:L:673:VAL:CG1	13:A:1397:ASN:ND2	2.64	0.61
6:l:1243:GLY:O	13:a:1276:GLU:CA	2.26	0.61
7:E:231:LEU:CD1	9:C:435:LEU:CD2	2.71	0.61
9:C:596:TYR:CZ	13:A:1182:TYR:HE2	2.18	0.61
9:c:580:LEU:HB3	9:c:581:PRO:HD3	1.81	0.61
4:R:652:LEU:HD13	2:T:462:ALA:HB2	1.82	0.61
3:S:817:ILE:CG2	2:T:465:ILE:HG22	2.31	0.61
4:r:109:HIS:NE2	4:R:507:HIS:CD2	2.64	0.61
10:U:1309:PRO:CD	13:a:967:ASP:C	2.62	0.61
1:h:229:GLU:CD	11:P:549:LYS:HZ2	2.09	0.61
6:L:1695:LEU:HD11	9:C:251:GLU:OE2	1.90	0.61
9:c:393:GLY:O	9:c:427:ASN:ND2	2.34	0.61
10:U:1363:SER:HB3	13:a:997:THR:HG21	1.79	0.61
11:O:788:SER:OG	11:Q:581:LEU:CD2	2.48	0.61
4:R:676:GLN:NE2	3:S:839:TRP:HE3	1.89	0.61
14:i:707:TRP:CZ3	14:i:773:VAL:HG22	2.35	0.61
2:t:357:LEU:CG	3:s:1732:SER:OG	2.45	0.61
5:g:17:HIS:CA	15:f:303:LYS:N	2.63	0.61
6:L:723:GLY:CA	13:A:1399:HIS:CD2	2.83	0.61
9:C:600:ARG:HH22	13:A:1222:THR:HG22	0.79	0.61
10:U:1309:PRO:CD	13:a:967:ASP:O	2.48	0.61
10:U:1362:GLN:CD	13:a:1024:ARG:HG2	2.25	0.61
11:O:649:ALA:HB1	11:Q:788:SER:OG	2.01	0.61
1:H:488:GLN:C	15:f:790:LYS:HG2	2.25	0.61
1:H:722:ALA:N	11:Q:10:ARG:NH1	2.48	0.61
4:r:143:ARG:CG	4:R:505:LEU:HA	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:287:LEU:HG	15:F:268:LEU:HD11	1.78	0.61
7:E:47:TRP:HB2	9:C:54:MET:CB	2.19	0.61
7:e:4:ALA:HA	9:c:57:VAL:HG22	1.82	0.61
7:e:320:LYS:O	9:c:13:ILE:N	2.34	0.61
8:d:40:ASN:ND2	9:c:412:HIS:NE2	2.48	0.61
9:c:621:GLN:NE2	11:M:32:PHE:CZ	2.68	0.61
14:I:555:ILE:HG22	14:I:633:LEU:HD11	1.83	0.61
14:I:707:TRP:CZ3	14:I:773:VAL:HG22	2.35	0.61
4:R:526:ARG:CG	4:R:562:GLU:OE2	2.48	0.61
3:s:1739:ILE:CG1	4:r:552:LEU:CA	2.78	0.60
6:L:1249:GLN:CB	13:A:1275:LYS:HA	2.09	0.60
7:e:319:LEU:HD23	9:c:57:VAL:HG11	1.83	0.60
8:d:9:PHE:CE2	9:c:70:LYS:HA	2.35	0.60
11:O:459:GLN:CA	11:Q:698:LEU:HB2	2.14	0.60
11:O:582:HIS:CG	11:Q:792:SER:HB3	2.25	0.60
11:O:772:THR:CA	11:Q:784:LYS:CG	2.79	0.60
4:r:175:LEU:CD2	4:R:511:ASP:CG	2.74	0.60
5:G:275:ILE:HG22	15:F:255:TRP:HE1	1.66	0.60
6:L:470:THR:OG1	13:A:1261:GLU:OE1	2.15	0.60
6:L:1244:MET:C	13:A:1285:ARG:NH2	2.58	0.60
6:l:470:THR:HG22	13:a:1261:GLU:OE1	2.01	0.60
7:e:7:ILE:CG1	9:c:54:MET:C	2.74	0.60
7:e:9:ALA:HB3	9:c:51:CYS:O	2.01	0.60
10:U:1388:SER:C	13:a:1148:ARG:HD3	2.26	0.60
11:O:468:THR:OG1	11:Q:667:ILE:HD13	2.00	0.60
11:O:782:PRO:HB2	11:Q:654:ALA:HB2	1.82	0.60
1:H:131:VAL:HG21	11:Q:618:LYS:NZ	2.07	0.60
1:H:715:TYR:CD1	11:Q:11:TYR:HA	2.36	0.60
5:g:285:VAL:CG1	15:f:263:HIS:ND1	2.64	0.60
6:l:1244:MET:N	13:a:1276:GLU:OE2	2.33	0.60
7:E:13:ASP:CG	9:C:41:LYS:HG3	2.22	0.60
7:e:296:SER:N	9:c:25:PHE:HE1	1.98	0.60
7:e:321:GLY:N	9:c:16:LEU:CD2	2.48	0.60
12:B:287:HIS:CE1	13:A:1007:GLY:O	2.52	0.60
4:R:655:THR:HG21	3:S:818:ARG:HG2	1.84	0.60
3:S:751:HIS:HB2	2:T:400:LEU:CD1	2.31	0.60
3:S:751:HIS:HB2	2:T:400:LEU:HD11	1.82	0.60
5:g:292:VAL:CA	15:f:653:ARG:CZ	2.50	0.60
8:D:259:ALA:HB1	9:C:453:ARG:NE	2.14	0.60
11:O:596:GLU:CB	11:Q:795:PHE:CD1	2.82	0.60
4:R:648:MET:HE1	3:S:811:GLU:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:768:PHE:HD2	2:T:414:LEU:HD21	1.67	0.60
3:S:782:ILE:HD13	2:T:432:LEU:HD21	1.83	0.60
1:H:719:GLU:HA	11:Q:10:ARG:CD	2.31	0.60
6:L:465:GLU:CA	13:A:1197:SER:C	2.74	0.60
7:E:309:TYR:CG	9:C:390:LEU:HD21	2.31	0.60
9:c:573:LEU:CB	9:c:605:ARG:CZ	2.52	0.60
11:O:455:LYS:HA	11:Q:695:ASN:O	2.02	0.60
3:S:821:ASN:HB2	2:T:469:LEU:HD21	1.81	0.60
2:t:356:GLN:N	4:r:535:ASN:OD1	2.35	0.60
6:L:788:GLN:CD	13:A:1398:GLN:O	2.45	0.60
7:E:310:MET:C	9:C:391:TYR:CD2	2.79	0.60
9:c:228:CYS:SG	9:c:278:MET:HE1	2.41	0.60
9:c:228:CYS:SG	9:c:278:MET:CE	2.89	0.60
11:O:469:SER:H	11:Q:667:ILE:CG1	2.14	0.60
11:O:591:PHE:CZ	11:Q:591:PHE:HB2	2.36	0.60
11:O:776:LYS:O	11:Q:780:PRO:HG2	1.99	0.60
11:O:787:ILE:HD12	11:Q:583:LYS:CG	2.24	0.60
12:b:287:HIS:CE1	13:a:1007:GLY:O	2.53	0.60
1:h:321:ARG:HD3	15:f:461:GLY:C	2.26	0.60
8:D:279:GLU:HG2	9:C:453:ARG:NH1	2.15	0.60
9:c:638:ALA:HB1	13:a:1128:ARG:HD2	1.82	0.60
11:O:481:LEU:HD12	11:Q:693:ILE:N	2.16	0.60
11:O:551:ARG:CD	11:Q:766:ASN:ND2	2.38	0.60
11:O:782:PRO:HG3	11:Q:669:ALA:CB	2.32	0.60
15:f:359:VAL:HG11	15:f:377:GLY:HA2	1.84	0.60
5:g:285:VAL:HG11	15:f:263:HIS:CE1	2.37	0.60
9:c:85:SER:HB2	9:c:97:GLN:HE22	1.66	0.60
4:R:535:ASN:H	2:T:357:GLN:HB2	1.67	0.60
3:S:716:PHE:HB3	2:T:365:TRP:CH2	2.36	0.60
2:t:382:VAL:CB	3:s:1758:SER:HA	2.31	0.60
6:L:1694:GLY:C	9:C:247:GLN:NE2	2.45	0.60
9:c:140:MET:HG2	9:c:362:PHE:HZ	1.66	0.60
9:c:386:GLN:O	9:c:388:HIS:N	2.34	0.60
11:O:467:GLU:HG3	11:Q:663:THR:OG1	2.02	0.60
3:S:817:ILE:O	2:T:469:LEU:CD1	2.45	0.60
5:g:269:TRP:O	15:f:255:TRP:N	2.33	0.60
6:L:466:PRO:O	13:A:1197:SER:OG	2.19	0.60
6:L:1520:TYR:HE1	9:C:90:SER:HG	1.47	0.60
7:e:294:ALA:CB	9:c:27:TRP:NE1	2.64	0.60
7:e:294:ALA:HB3	9:c:27:TRP:NE1	2.17	0.60
8:D:11:SER:CB	9:C:66:PRO:O	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:28:LYS:HB3	15:f:592:LYS:HE2	1.82	0.60
4:R:662:LEU:HD13	3:S:825:LYS:CG	2.22	0.60
14:i:555:ILE:HG22	14:i:633:LEU:HD11	1.83	0.60
3:s:1732:SER:CB	4:r:548:CYS:SG	2.88	0.59
3:s:1739:ILE:N	4:r:552:LEU:HD13	2.15	0.59
5:g:302:VAL:O	15:f:267:LYS:C	2.41	0.59
5:G:302:VAL:O	15:F:267:LYS:C	2.41	0.59
8:d:16:ARG:HH22	9:c:446:LYS:NZ	1.99	0.59
10:U:1307:ARG:NH2	13:a:1001:LYS:NZ	2.35	0.59
12:B:120:ILE:CG2	13:A:520:GLN:NE2	2.50	0.59
4:R:599:ARG:NH1	3:S:753:PHE:CE1	2.70	0.59
3:S:768:PHE:CD2	2:T:414:LEU:CG	2.85	0.59
2:t:356:GLN:HA	4:r:535:ASN:HD21	1.67	0.59
2:t:357:LEU:N	4:r:543:PRO:HG3	2.16	0.59
2:t:359:ASN:H	4:r:535:ASN:CG	2.03	0.59
3:s:1735:ILE:HG12	4:r:549:LEU:N	2.16	0.59
3:s:1739:ILE:HD11	4:r:552:LEU:HB2	1.84	0.59
6:L:1244:MET:CE	13:A:1281:ASP:CA	2.76	0.59
7:E:12:LYS:CD	9:C:48:ALA:H	2.14	0.59
7:E:22:PHE:HE1	9:C:439:ARG:HA	1.67	0.59
7:E:231:LEU:HD11	9:C:435:LEU:HD21	1.83	0.59
7:e:148:MET:HG2	9:c:499:LEU:CD1	2.30	0.59
11:O:468:THR:CA	11:Q:667:ILE:CD1	2.79	0.59
12:b:221:THR:H	13:a:921:LYS:H	1.49	0.59
4:R:48:LEU:HD11	4:R:456:TRP:HB2	1.84	0.59
14:i:636:ALA:HB2	14:i:682:MET:HE3	1.85	0.59
2:t:358:GLU:HB3	4:r:535:ASN:HA	1.83	0.59
5:g:285:VAL:CB	15:f:263:HIS:CE1	2.84	0.59
6:l:44:LYS:HG3	10:U:1129:SER:N	1.97	0.59
7:e:14:LEU:HD13	9:c:38:LEU:HB2	1.83	0.59
9:c:621:GLN:N	11:M:10:ARG:CA	2.45	0.59
11:O:457:LEU:N	11:Q:702:GLU:OE2	2.34	0.59
1:h:721:GLN:OE1	11:P:334:LYS:HG3	2.03	0.59
5:g:26:ILE:CG1	15:f:735:ARG:HH21	2.04	0.59
5:G:271:ILE:H	15:F:255:TRP:HB2	1.65	0.59
5:G:279:SER:CB	15:F:265:GLY:HA3	2.30	0.59
5:G:285:VAL:CG1	15:F:263:HIS:ND1	2.65	0.59
7:E:312:ASN:ND2	9:C:1:MET:CA	2.60	0.59
8:d:124:GLY:HA3	9:c:479:ARG:HH11	1.67	0.59
9:c:183:LEU:CD2	9:c:216:LYS:HZ1	2.12	0.59
11:O:18:SER:OG	15:f:583:ILE:CA	2.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:M:11:TYR:CD2	15:F:434:PRO:HD2	2.37	0.59
14:I:636:ALA:HB2	14:I:682:MET:HE3	1.84	0.59
4:R:541:SER:HG	3:S:702:SER:HB2	1.66	0.59
3:S:817:ILE:HG22	2:T:469:LEU:CD1	2.31	0.59
5:G:19:ALA:C	15:F:251:PHE:CE2	2.81	0.59
7:E:6:SER:O	9:C:53:PHE:HB3	2.01	0.59
11:O:454:ARG:CB	11:Q:695:ASN:HD22	2.13	0.59
11:O:464:VAL:CG2	11:Q:708:GLU:H	2.15	0.59
11:O:672:SER:C	11:Q:787:ILE:CD1	2.75	0.59
11:O:795:PHE:CE2	11:Q:592:TYR:HD2	2.20	0.59
4:R:363:PHE:HD1	4:R:551:LEU:HA	1.67	0.59
4:R:596:ARG:HG3	3:S:750:LEU:HD11	1.83	0.59
3:S:713:ILE:HG12	2:T:361:LEU:CD2	2.32	0.59
1:h:367:ALA:HB1	15:f:471:GLN:HE21	1.66	0.59
2:t:364:TRP:CA	3:s:1743:ILE:HD13	2.23	0.59
3:s:1735:ILE:CG1	4:r:548:CYS:C	2.69	0.59
6:L:1696:ASN:CB	9:C:253:GLU:C	2.59	0.59
7:E:47:TRP:CD1	9:C:54:MET:HG2	2.37	0.59
10:U:1362:GLN:CG	13:a:1024:ARG:CG	2.78	0.59
11:O:656:LEU:CG	11:Q:793:ALA:HB2	2.32	0.59
12:B:219:ARG:CD	13:A:917:GLY:HA3	2.22	0.59
12:b:223:ARG:CG	13:a:920:HIS:CD2	2.86	0.59
4:R:676:GLN:HE22	3:S:839:TRP:HB2	1.67	0.59
1:H:770:GLN:OE1	11:P:728:PRO:HB2	2.03	0.59
6:L:465:GLU:OE1	13:A:1201:ILE:CG1	2.49	0.59
7:e:6:SER:C	9:c:53:PHE:HB3	2.26	0.59
7:e:7:ILE:CB	9:c:54:MET:N	2.57	0.59
9:c:562:MET:HE1	9:c:576:LEU:CD2	2.32	0.59
11:O:454:ARG:NE	11:Q:695:ASN:HD21	1.98	0.59
11:O:465:PRO:HB2	11:Q:689:LYS:HD2	1.85	0.59
11:O:693:ILE:O	11:O:698:LEU:HD21	2.03	0.59
11:O:774:ALA:N	11:Q:782:PRO:C	2.60	0.59
13:a:1172:ILE:CD1	15:f:904:ALA:N	2.59	0.59
7:e:282:TRP:HB2	9:c:39:TYR:CE2	2.38	0.59
10:U:1362:GLN:OE1	13:a:1024:ARG:CG	2.50	0.59
11:O:662:LYS:CE	11:Q:595:LYS:NZ	2.66	0.59
5:g:275:ILE:HD13	15:f:255:TRP:CZ2	2.38	0.59
7:e:314:LYS:NZ	9:c:3:GLU:CB	2.65	0.59
8:d:11:SER:CA	9:c:69:ARG:CZ	2.81	0.59
10:U:1359:VAL:CG2	13:a:1027:ASP:CB	2.77	0.59
11:P:693:ILE:O	11:P:698:LEU:HD21	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:31:LEU:HA	15:f:588:GLU:HB3	1.85	0.59
4:R:662:LEU:HD11	3:S:825:LYS:HA	1.85	0.59
3:S:817:ILE:HG12	2:T:466:ASP:HA	1.85	0.59
1:H:719:GLU:HB2	11:Q:7:GLU:CB	2.32	0.59
7:E:17:ASP:O	9:C:35:TYR:OH	2.18	0.59
8:D:146:GLU:O	9:C:480:ARG:NE	2.36	0.59
9:c:254:LEU:CD1	4:R:386:ILE:CG1	2.78	0.59
11:O:468:THR:O	11:Q:664:GLU:N	2.36	0.59
11:O:788:SER:OG	11:Q:597:TYR:CD1	2.34	0.59
12:B:221:THR:H	13:A:921:LYS:H	1.49	0.59
4:R:543:PRO:HG2	3:S:707:ASN:N	2.14	0.59
4:R:609:LEU:CD1	2:T:418:LEU:HD12	2.33	0.59
3:S:821:ASN:CG	2:T:469:LEU:HD21	2.27	0.59
1:H:158:PRO:HB3	11:N:475:ILE:HD12	1.78	0.58
1:h:161:ALA:HB2	11:P:477:GLU:HG2	1.85	0.58
1:h:226:LEU:CG	11:P:549:LYS:CB	2.81	0.58
4:r:153:THR:HG21	4:R:518:GLU:CG	2.32	0.58
5:G:269:TRP:O	15:F:255:TRP:N	2.36	0.58
5:G:275:ILE:HD13	15:F:255:TRP:CZ2	2.38	0.58
7:E:5:ARG:CD	9:C:55:TYR:HA	2.32	0.58
7:e:298:ASP:OD1	9:c:22:HIS:CD2	2.52	0.58
9:c:265:ARG:HG3	2:T:378:GLN:NE2	2.18	0.58
11:O:469:SER:O	11:Q:666:ALA:N	2.36	0.58
11:Q:693:ILE:O	11:Q:698:LEU:HD21	2.03	0.58
11:M:91:PRO:O	15:F:587:ASP:OD1	2.20	0.58
4:R:533:LEU:N	2:T:358:LEU:C	2.61	0.58
5:G:285:VAL:CB	15:F:263:HIS:CE1	2.86	0.58
6:L:788:GLN:OE1	13:A:1401:GLN:HB2	2.02	0.58
6:L:1247:ILE:CB	13:A:1281:ASP:N	2.56	0.58
10:U:1344:ARG:CZ	13:a:1148:ARG:HH22	2.16	0.58
11:O:776:LYS:HB2	11:Q:780:PRO:CB	1.90	0.58
4:R:581:LEU:HD11	2:T:383:VAL:HG12	1.82	0.58
1:H:313:GLU:OE1	11:M:1:MET:HB2	2.03	0.58
4:r:119:MET:HE3	4:R:512:VAL:CB	2.32	0.58
6:L:1698:GLY:HA3	9:C:257:GLN:OE1	2.03	0.58
7:E:318:VAL:O	9:C:9:ALA:C	2.46	0.58
9:c:320:THR:CB	4:R:128:GLY:O	2.50	0.58
9:c:532:ARG:HH12	9:c:568:PRO:CB	2.16	0.58
9:c:625:ILE:H	11:M:17:ASN:HB2	1.68	0.58
11:O:455:LYS:CB	11:Q:697:CYS:H	2.06	0.58
11:O:462:PRO:HD3	11:Q:703:GLN:CG	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:595:LYS:NZ	11:Q:591:PHE:HD2	1.98	0.58
11:M:693:ILE:O	11:M:698:LEU:HD21	2.03	0.58
12:B:223:ARG:CG	13:A:920:HIS:CD2	2.86	0.58
1:H:313:GLU:OE1	11:M:1:MET:CB	2.52	0.58
2:t:364:TRP:O	3:s:1743:ILE:HD13	2.04	0.58
4:r:145:ILE:HA	4:R:505:LEU:HD23	0.80	0.58
5:g:225:LEU:HD23	15:f:655:GLY:HA3	1.85	0.58
6:l:1247:ILE:HG21	13:a:1278:SER:HB3	1.84	0.58
7:e:3:VAL:O	9:c:57:VAL:HA	2.03	0.58
9:c:646:VAL:HG22	13:a:1080:TYR:HE1	1.64	0.58
11:O:786:THR:CB	11:Q:578:ALA:HB1	2.23	0.58
11:N:693:ILE:O	11:N:698:LEU:HD21	2.03	0.58
4:R:1:MET:SD	2:T:374:LYS:NZ	2.76	0.58
4:R:541:SER:OG	3:S:702:SER:HB2	2.03	0.58
2:t:364:TRP:CZ2	3:s:1736:LEU:C	2.81	0.58
4:r:48:LEU:HD11	4:r:456:TRP:HB2	1.84	0.58
6:L:1247:ILE:CG2	13:A:1280:THR:H	2.14	0.58
7:E:285:SER:HG	9:C:27:TRP:CD1	2.21	0.58
7:E:315:CYS:SG	9:C:8:PRO:HG3	2.43	0.58
7:E:322:ASP:OD1	9:C:12:PRO:HB2	2.03	0.58
7:e:7:ILE:CG2	9:c:54:MET:HE2	2.32	0.58
7:e:320:LYS:O	9:c:13:ILE:CB	2.52	0.58
9:c:256:TRP:HZ2	9:c:312:PHE:O	1.87	0.58
9:c:318:LYS:CD	4:R:131:SER:HB3	2.33	0.58
9:c:585:GLN:O	9:c:643:ARG:NH1	2.36	0.58
11:O:465:PRO:O	11:Q:693:ILE:HD11	2.04	0.58
11:O:480:CYS:C	11:Q:705:GLU:OE2	2.46	0.58
11:O:594:GLN:O	11:Q:793:ALA:C	2.46	0.58
15:F:359:VAL:HG11	15:F:377:GLY:HA2	1.84	0.58
4:R:496:GLN:CB	2:T:385:ALA:HB1	2.32	0.58
4:R:616:ALA:HB1	2:T:422:LEU:HD23	1.81	0.58
2:t:366:LEU:CD1	4:r:532:LEU:HD11	2.28	0.58
4:r:117:GLY:HA2	4:R:513:LYS:HG3	1.85	0.58
6:L:1482:ARG:HH22	9:C:87:GLU:HA	1.67	0.58
8:d:40:ASN:CA	9:c:412:HIS:CD2	2.79	0.58
9:c:166:GLU:CD	9:c:169:ARG:NH2	2.61	0.58
4:R:494:CYS:N	2:T:383:VAL:CA	2.66	0.58
4:R:626:ARG:HG2	2:T:436:GLU:OE2	2.04	0.58
5:g:279:SER:HB3	15:f:265:GLY:N	2.19	0.58
5:g:291:SER:C	15:f:653:ARG:NH1	2.30	0.58
6:L:614:ALA:HA	13:A:1247:ARG:NH2	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:56:ASN:HB3	6:l:103:ILE:HG22	1.85	0.58
7:E:27:MET:HB3	9:C:33:LEU:HD13	1.85	0.58
7:e:15:ILE:HD12	9:c:51:CYS:SG	2.43	0.58
8:d:9:PHE:CG	9:c:70:LYS:HE2	2.02	0.58
9:c:625:ILE:H	11:M:17:ASN:ND2	2.01	0.58
11:O:457:LEU:C	11:Q:698:LEU:CB	2.56	0.58
4:R:534:LEU:O	2:T:358:LEU:HD12	2.04	0.58
3:S:744:ARG:CZ	2:T:389:THR:CG2	2.77	0.58
1:H:336:ARG:HH21	5:g:200:GLN:NE2	2.02	0.58
5:g:275:ILE:HG22	15:f:255:TRP:HE1	1.68	0.58
5:G:225:LEU:HD23	15:F:655:GLY:HA3	1.84	0.58
8:D:122:HIS:ND1	9:C:480:ARG:CG	2.59	0.58
8:D:279:GLU:HB3	9:C:453:ARG:HH12	0.53	0.58
8:d:39:ASP:OD1	9:c:412:HIS:HB2	2.04	0.58
9:c:67:VAL:HG11	9:c:116:MET:HG3	1.85	0.58
9:c:206:ARG:HB3	9:c:209:GLU:OE2	2.03	0.58
11:O:437:LEU:CD2	11:Q:699:PRO:CA	2.78	0.58
11:O:463:ARG:HA	11:Q:710:LEU:CD1	2.34	0.58
12:B:157:LYS:CD	13:A:524:ARG:CD	2.76	0.58
4:R:492:LEU:HB2	2:T:384:ASN:HB2	1.85	0.58
2:t:366:LEU:HD21	4:r:532:LEU:HD13	1.84	0.58
3:s:1739:ILE:CG1	4:r:552:LEU:HA	2.33	0.58
6:L:56:ASN:HB3	6:L:103:ILE:HG22	1.85	0.58
6:L:777:PRO:O	7:E:258:SER:CB	2.52	0.58
6:l:1243:GLY:HA3	13:a:1276:GLU:CG	2.19	0.58
9:c:437:MET:HG2	9:c:455:CYS:SG	2.44	0.58
10:U:1362:GLN:OE1	13:a:1024:ARG:CB	2.52	0.58
11:M:92:THR:HG22	15:F:585:LEU:O	2.03	0.58
3:S:835:LEU:CG	2:T:483:LEU:HD11	2.34	0.58
2:t:363:LYS:NZ	3:s:1740:ARG:HD3	2.18	0.58
6:L:724:LEU:O	13:A:1397:ASN:ND2	2.36	0.58
6:L:1695:LEU:HB2	9:C:255:LYS:HE3	1.85	0.58
13:a:1136:TRP:CE3	15:f:902:ASP:C	2.82	0.58
4:R:635:HIS:CD2	2:T:452:ASP:N	2.69	0.58
1:h:321:ARG:CD	15:f:461:GLY:CA	2.64	0.57
4:r:146:PRO:CA	4:R:510:ALA:CA	2.76	0.57
5:g:277:ALA:HB2	15:f:261:LEU:HD21	1.86	0.57
6:L:777:PRO:O	7:E:258:SER:CA	2.52	0.57
6:L:1356:MET:HE1	6:L:1383:ILE:O	2.04	0.57
7:E:231:LEU:CD2	9:C:435:LEU:HD23	2.18	0.57
7:e:7:ILE:HD12	9:c:33:LEU:HD11	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:e:321:GLY:HA2	9:c:16:LEU:CB	2.10	0.57
9:c:313:LYS:O	4:R:462:PHE:CE1	2.57	0.57
11:O:465:PRO:HB3	11:Q:686:TYR:CA	2.32	0.57
11:O:788:SER:CB	11:Q:581:LEU:HD22	2.26	0.57
11:O:788:SER:HG	11:Q:597:TYR:HD1	0.69	0.57
12:b:88:ALA:HB1	13:a:499:LYS:HZ1	1.68	0.57
4:R:627:LEU:CD2	3:S:782:ILE:HG12	2.34	0.57
1:H:313:GLU:CD	11:M:1:MET:CA	2.77	0.57
2:t:357:LEU:CB	4:r:543:PRO:CG	2.80	0.57
4:r:119:MET:CA	4:R:509:LEU:C	2.77	0.57
5:g:279:SER:OG	15:f:265:GLY:CA	2.52	0.57
7:E:39:TRP:HB2	9:C:54:MET:SD	2.45	0.57
10:U:1209:SER:O	12:b:57:THR:CB	2.47	0.57
11:O:783:THR:HB	11:Q:602:VAL:HG22	0.64	0.57
12:b:220:ASN:O	13:a:920:HIS:HB2	1.88	0.57
6:L:1703:LEU:HD21	9:C:251:GLU:OE1	2.04	0.57
9:c:320:THR:HG21	4:R:132:GLU:N	2.20	0.57
11:O:3:ARG:NH1	15:f:589:PRO:CB	2.36	0.57
11:O:31:LEU:CA	15:f:588:GLU:HB3	2.32	0.57
11:O:477:GLU:HB3	11:Q:712:LYS:CE	2.34	0.57
13:a:1170:ILE:HG13	15:f:858:LYS:HE3	1.86	0.57
4:R:613:PHE:CG	3:S:768:PHE:CZ	2.91	0.57
1:H:118:ASP:CB	11:M:727:TYR:HE2	0.45	0.57
1:H:461:ILE:HD13	11:N:28:LYS:CG	2.35	0.57
1:H:461:ILE:CB	11:N:27:MET:HB3	2.35	0.57
5:g:36:SER:H	13:a:1378:TRP:HH2	1.52	0.57
6:L:696:GLU:OE1	8:d:321:LEU:CD1	2.46	0.57
7:E:12:LYS:HD3	9:C:46:GLU:C	2.29	0.57
8:D:279:GLU:OE1	9:C:450:LYS:HG2	2.05	0.57
9:c:596:TYR:OH	13:a:1117:VAL:O	2.23	0.57
11:O:591:PHE:H	11:Q:798:LYS:HG3	1.66	0.57
2:t:358:GLU:CD	4:r:443:PRO:CD	2.77	0.57
3:s:1732:SER:N	4:r:543:PRO:O	2.36	0.57
5:G:17:HIS:CA	15:F:303:LYS:N	2.67	0.57
7:E:16:HIS:HE1	9:C:39:TYR:CD1	2.15	0.57
9:c:625:ILE:N	11:M:17:ASN:HB2	2.16	0.57
13:A:1136:TRP:CE3	15:F:902:ASP:C	2.82	0.57
4:R:666:ILE:HG12	3:S:828:VAL:HG13	1.85	0.57
2:t:356:GLN:CA	4:r:535:ASN:OD1	2.52	0.57
4:r:119:MET:HE3	4:R:512:VAL:HB	1.87	0.57
4:r:339:TRP:CD2	6:l:1928:THR:C	2.75	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:285:VAL:HG23	15:f:266:ASP:CA	2.35	0.57
5:G:163:ILE:HD11	5:G:179:ILE:HD12	1.87	0.57
6:L:466:PRO:O	13:A:1197:SER:CB	2.48	0.57
6:L:1699:SER:OG	9:C:251:GLU:O	2.21	0.57
7:e:282:TRP:HB3	9:c:39:TYR:CZ	2.40	0.57
7:e:309:TYR:CB	9:c:390:LEU:HD21	2.19	0.57
11:O:458:LYS:HB2	11:Q:698:LEU:CD2	2.34	0.57
11:M:91:PRO:CG	15:F:586:GLY:CA	2.82	0.57
12:B:220:ASN:O	13:A:920:HIS:HB2	1.88	0.57
12:B:223:ARG:HH21	13:A:976:GLN:HE22	0.69	0.57
4:R:599:ARG:C	3:S:753:PHE:HE1	2.07	0.57
5:g:48:ILE:HG23	6:l:541:ASN:CG	2.25	0.57
5:g:163:ILE:HD11	5:g:179:ILE:HD12	1.86	0.57
5:g:292:VAL:HG12	15:f:616:CYS:HA	1.81	0.57
5:G:24:TYR:HE2	15:F:735:ARG:CD	1.95	0.57
5:G:36:SER:N	13:A:1378:TRP:HH2	2.02	0.57
7:E:7:ILE:O	9:C:51:CYS:SG	2.62	0.57
9:C:638:ALA:CB	13:A:1128:ARG:HD3	2.32	0.57
9:c:253:GLU:HG3	9:c:316:THR:HG21	1.86	0.57
11:O:484:LEU:N	11:Q:705:GLU:OE1	2.33	0.57
11:O:662:LYS:NZ	11:Q:595:LYS:CE	2.66	0.57
12:b:219:ARG:NH1	13:a:917:GLY:CA	2.43	0.57
4:R:613:PHE:CE2	3:S:768:PHE:CA	2.85	0.57
4:R:635:HIS:HB2	2:T:453:GLU:HG2	1.73	0.57
3:S:831:VAL:HG13	2:T:483:LEU:HD13	1.85	0.57
1:H:816:ASP:OD1	11:Q:20:SER:OG	2.23	0.57
5:g:285:VAL:HG21	15:f:263:HIS:HE1	1.52	0.57
7:E:15:ILE:N	9:C:37:THR:C	2.47	0.57
3:S:768:PHE:CD2	2:T:414:LEU:HD21	2.40	0.57
4:r:144:THR:C	4:R:505:LEU:HG	2.28	0.57
6:L:613:LEU:CB	13:A:1247:ARG:NH2	2.67	0.57
6:L:1244:MET:O	13:A:1277:SER:CB	2.53	0.57
8:D:11:SER:CB	9:C:66:PRO:CA	2.78	0.57
8:d:13:LYS:CD	9:c:413:SER:HB2	2.34	0.57
9:c:83:GLN:HB3	9:c:424:TYR:CE1	2.39	0.57
9:c:320:THR:CA	4:R:128:GLY:C	2.56	0.57
9:c:521:ASP:CG	9:c:544:ARG:NH2	2.62	0.57
4:R:364:ALA:O	4:R:550:GLN:CG	2.53	0.57
3:S:824:VAL:CB	2:T:476:LEU:HD12	2.34	0.57
1:H:118:ASP:HB2	11:M:727:TYR:CD2	1.99	0.57
2:t:382:VAL:HG21	3:s:1758:SER:N	2.11	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:170:GLN:CB	15:f:685:HIS:HE2	2.16	0.57
5:G:2:VAL:HA	15:F:309:LEU:HG	1.86	0.57
6:l:1245:ALA:CB	13:a:1274:THR:CB	2.78	0.57
9:c:642:ALA:N	13:a:1125:ASN:CG	2.63	0.57
11:O:605:TRP:CD1	11:Q:791:LYS:CG	2.87	0.57
12:B:220:ASN:HA	13:A:921:LYS:N	2.20	0.57
13:a:1090:ARG:NH2	15:f:905:LEU:HB3	2.20	0.57
4:R:634:PHE:O	2:T:449:GLN:CA	2.51	0.57
1:H:158:PRO:HG2	11:N:475:ILE:HD11	1.86	0.56
5:G:170:GLN:CB	15:F:685:HIS:HE2	2.18	0.56
6:L:1433:ARG:HH21	6:L:1456:ASP:HB3	1.70	0.56
7:E:314:LYS:HE2	9:C:3:GLU:C	2.30	0.56
11:O:791:LYS:HB3	11:Q:593:ASP:HB3	1.86	0.56
4:R:444:LEU:HB3	3:S:705:ILE:CD1	1.97	0.56
4:R:635:HIS:HE2	2:T:455:ARG:H	1.53	0.56
1:H:119:SER:HB2	11:M:727:TYR:CE1	2.39	0.56
4:r:110:VAL:CA	4:R:508:VAL:HG22	2.34	0.56
6:L:777:PRO:CD	7:E:257:LEU:O	2.53	0.56
6:l:613:LEU:CD2	13:a:1250:GLN:CB	2.51	0.56
9:c:596:TYR:CE2	13:a:1121:LEU:CD2	2.88	0.56
9:c:622:ASP:HB2	11:M:13:GLU:CD	2.30	0.56
11:O:1:MET:N	15:f:566:GLY:N	2.52	0.56
11:O:461:PHE:HB3	11:Q:705:GLU:C	2.30	0.56
11:O:787:ILE:HG22	11:Q:584:THR:N	2.12	0.56
4:R:581:LEU:HD13	2:T:383:VAL:HG13	1.84	0.56
4:R:670:ASN:CG	2:T:479:VAL:HG21	2.28	0.56
1:h:364:TRP:HB2	15:f:467:LEU:CD2	2.35	0.56
4:r:149:GLU:N	4:R:513:LYS:HA	2.19	0.56
5:G:36:SER:H	13:A:1378:TRP:HH2	1.53	0.56
5:G:285:VAL:HG11	15:F:263:HIS:CE1	2.40	0.56
5:G:291:SER:O	15:F:653:ARG:CZ	2.52	0.56
6:L:1247:ILE:HG21	13:A:1280:THR:N	2.08	0.56
6:l:1596:HIS:CE1	4:R:209:THR:HG22	2.40	0.56
7:e:2:PHE:HB2	9:c:11:THR:HG21	1.87	0.56
7:e:8:ALA:HB2	9:c:53:PHE:CE1	2.40	0.56
7:e:22:PHE:HE1	9:c:438:GLU:O	1.88	0.56
9:c:321:GLU:CA	4:R:130:LYS:HA	2.36	0.56
9:c:572:TRP:HH2	13:a:1267:GLN:NE2	2.03	0.56
11:O:463:ARG:C	11:Q:709:CYS:N	2.63	0.56
4:R:541:SER:HG	3:S:699:THR:C	1.99	0.56
4:R:543:PRO:HG2	3:S:707:ASN:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:627:LEU:CD1	3:S:782:ILE:CD1	2.63	0.56
4:R:662:LEU:CD2	3:S:825:LYS:CB	2.83	0.56
1:H:719:GLU:CA	11:Q:10:ARG:HD2	2.36	0.56
6:l:1433:ARG:HH21	6:l:1456:ASP:HB3	1.70	0.56
9:c:641:LEU:HD23	13:a:1125:ASN:CG	2.30	0.56
13:a:310:MET:HE1	13:a:382:TYR:CG	2.40	0.56
4:R:532:LEU:CD1	2:T:359:GLU:O	2.24	0.56
1:h:226:LEU:HD11	11:P:547:SER:CA	2.33	0.56
6:l:466:PRO:CB	13:a:1198:THR:HG22	2.34	0.56
6:l:480:ALA:HB3	13:a:1108:ARG:O	2.05	0.56
10:U:1386:ARG:CA	13:a:1151:ALA:HA	2.26	0.56
11:O:455:LYS:CB	11:Q:695:ASN:HB3	2.28	0.56
11:O:470:ARG:CB	11:Q:667:ILE:HB	2.36	0.56
11:O:673:VAL:CB	11:Q:787:ILE:HD13	2.31	0.56
4:R:496:GLN:HG3	2:T:385:ALA:C	2.31	0.56
1:H:234:ILE:CD1	11:N:34:ARG:HH22	2.19	0.56
6:L:655:GLU:HG2	13:A:1247:ARG:CA	2.34	0.56
6:L:788:GLN:OE1	13:A:1401:GLN:CB	2.53	0.56
6:l:1356:MET:HE1	6:l:1383:ILE:O	2.04	0.56
7:e:7:ILE:N	9:c:53:PHE:HB3	2.20	0.56
7:e:7:ILE:CG2	9:c:54:MET:CE	2.81	0.56
9:c:535:PHE:CE2	9:c:567:ALA:HB2	2.41	0.56
13:A:1170:ILE:HG13	15:F:858:LYS:HE3	1.88	0.56
4:R:447:ARG:NH2	3:S:706:LEU:HG	2.20	0.56
4:R:477:ILE:CG2	2:T:363:ASN:ND2	2.62	0.56
5:g:271:ILE:H	15:f:255:TRP:C	2.14	0.56
6:L:1244:MET:HE2	13:A:1281:ASP:CB	2.35	0.56
9:c:472:ALA:HB1	9:c:496:PHE:HE1	1.71	0.56
11:O:458:LYS:HG2	11:Q:693:ILE:HG22	1.87	0.56
11:O:462:PRO:HG3	11:Q:707:GLN:NE2	1.92	0.56
11:O:590:SER:C	11:Q:796:SER:CB	2.67	0.56
11:O:791:LYS:CB	11:Q:454:ARG:NH2	2.69	0.56
4:R:581:LEU:HD13	3:S:734:VAL:CG1	2.36	0.56
4:R:596:ARG:NH2	3:S:746:GLU:HB3	2.16	0.56
1:H:336:ARG:HH21	5:g:200:GLN:HE21	1.51	0.56
2:t:361:ILE:O	4:r:533:LEU:CG	2.53	0.56
2:t:364:TRP:CD1	3:s:1740:ARG:HG3	2.40	0.56
6:L:613:LEU:HD13	13:A:1247:ARG:HB3	1.86	0.56
6:L:1206:GLN:HE22	7:E:176:ARG:CZ	2.19	0.56
6:l:1246:ALA:H	13:a:1276:GLU:HG2	1.71	0.56
8:d:41:GLU:OE1	9:c:64:TYR:CE1	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:323:HIS:CE1	4:R:129:LYS:CD	2.85	0.56
11:O:458:LYS:CB	11:Q:698:LEU:CD2	2.83	0.56
11:M:317:LEU:HD22	11:M:376:PHE:HB3	1.88	0.56
12:b:222:LEU:HG	13:a:921:LYS:HA	1.87	0.56
6:L:1697:ASP:O	9:C:254:LEU:HB3	2.05	0.56
7:E:6:SER:HA	9:C:16:LEU:CD1	2.36	0.56
8:d:12:HIS:O	9:c:69:ARG:NH2	2.25	0.56
9:c:95:LYS:NZ	9:c:153:GLU:O	2.36	0.56
11:N:317:LEU:HD22	11:N:376:PHE:HB3	1.88	0.56
12:B:286:ALA:CB	13:A:1006:MET:HE3	2.36	0.56
13:A:310:MET:HE1	13:A:382:TYR:CG	2.40	0.56
6:L:1523:VAL:HG23	9:C:93:SER:N	2.16	0.56
7:e:7:ILE:C	9:c:54:MET:N	2.29	0.56
8:D:11:SER:HB3	9:C:66:PRO:HB3	1.82	0.56
8:d:169:SER:O	9:c:482:GLY:HA3	2.05	0.56
8:d:189:VAL:CG1	9:c:519:LEU:HD12	2.30	0.56
9:C:611:GLU:CD	13:A:1294:TYR:CD1	2.79	0.56
4:R:599:ARG:NH1	3:S:753:PHE:CD1	2.70	0.56
5:g:275:ILE:CD1	15:f:255:TRP:CZ2	2.89	0.55
9:c:621:GLN:N	11:M:9:GLN:O	2.12	0.55
11:O:317:LEU:HD22	11:O:376:PHE:HB3	1.88	0.55
12:b:220:ASN:HA	13:a:921:LYS:N	2.20	0.55
12:b:286:ALA:CB	13:a:1006:MET:HE3	2.36	0.55
2:t:378:GLN:CG	3:s:1754:LYS:HB3	2.36	0.55
4:r:122:GLU:HG3	4:R:506:PRO:HA	0.82	0.55
5:g:271:ILE:H	15:f:255:TRP:CB	2.19	0.55
7:E:307:ALA:HB1	9:C:392:PHE:CZ	2.41	0.55
10:U:1386:ARG:CD	13:a:1152:SER:CA	2.79	0.55
11:M:11:TYR:CE2	15:F:434:PRO:HD2	2.41	0.55
13:A:1090:ARG:NH2	15:F:905:LEU:HB3	2.21	0.55
4:R:446:CYS:SG	3:S:701:GLU:C	2.89	0.55
1:H:716:SER:O	11:Q:7:GLU:CG	2.51	0.55
1:h:364:TRP:HB2	15:f:467:LEU:HD23	1.88	0.55
9:c:321:GLU:HG3	4:R:130:LYS:CA	2.36	0.55
9:c:390:LEU:HD13	9:c:392:PHE:HZ	1.66	0.55
11:O:470:ARG:NH2	11:Q:671:GLU:HG3	2.18	0.55
11:O:653:PHE:CE2	11:Q:788:SER:OG	2.59	0.55
12:B:196:THR:HG23	13:A:634:HIS:CG	2.34	0.55
4:R:363:PHE:CZ	4:R:551:LEU:CD2	2.86	0.55
4:R:544:PRO:N	3:S:700:LYS:O	2.39	0.55
3:s:1739:ILE:CD1	4:r:552:LEU:HA	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:271:ILE:CB	15:f:255:TRP:O	2.52	0.55
5:G:277:ALA:HB3	15:F:253:VAL:CG1	2.37	0.55
5:G:285:VAL:HG21	15:F:263:HIS:HE1	1.55	0.55
6:L:532:LYS:NZ	13:A:1216:GLN:HE22	2.04	0.55
7:e:148:MET:SD	9:c:476:LEU:HD21	2.46	0.55
8:d:191:GLN:OE1	9:c:518:ASP:HB3	2.05	0.55
9:c:622:ASP:HB2	11:M:13:GLU:CG	2.36	0.55
15:f:342:HIS:CD2	15:f:344:LYS:HE3	2.42	0.55
4:R:487:PRO:CG	2:T:373:GLU:OE1	2.35	0.55
1:H:722:ALA:H	11:Q:10:ARG:NH1	2.04	0.55
5:g:19:ALA:C	15:f:251:PHE:CE2	2.83	0.55
6:l:617:GLU:OE2	13:a:1250:GLN:HG3	2.07	0.55
7:E:6:SER:HA	9:C:16:LEU:HD13	1.87	0.55
7:E:69:GLU:HG2	9:C:469:LYS:HE2	1.88	0.55
7:e:20:PHE:CE2	9:c:26:SER:HB3	2.42	0.55
8:d:122:HIS:CG	9:c:478:ASN:O	2.60	0.55
8:d:146:GLU:HB3	9:c:480:ARG:HH11	1.69	0.55
11:O:471:LEU:HG	11:Q:664:GLU:CB	2.33	0.55
11:O:602:VAL:CG2	11:Q:791:LYS:HB2	2.31	0.55
5:g:2:VAL:HA	15:f:309:LEU:HG	1.88	0.55
5:g:16:ILE:HB	15:f:303:LYS:HB2	1.88	0.55
5:g:266:HIS:CD2	15:f:264:ASN:HB2	2.41	0.55
7:e:14:LEU:CD1	9:c:38:LEU:HB2	2.36	0.55
9:c:385:PHE:HE1	9:c:396:MET:HE1	1.63	0.55
11:O:456:TRP:N	11:Q:698:LEU:HD23	2.20	0.55
4:R:490:PRO:O	2:T:377:LEU:CD2	2.53	0.55
2:t:358:GLU:CG	4:r:443:PRO:HD3	2.15	0.55
3:s:1728:VAL:HG13	4:r:544:PRO:CG	2.30	0.55
4:r:145:ILE:HG12	4:R:505:LEU:CG	2.30	0.55
4:r:146:PRO:CD	4:R:505:LEU:CD2	2.85	0.55
5:G:24:TYR:CG	15:F:732:ARG:NH1	2.75	0.55
5:G:275:ILE:CD1	15:F:255:TRP:CZ2	2.90	0.55
6:L:1244:MET:HE1	13:A:1281:ASP:HA	1.88	0.55
6:L:1525:VAL:HB	9:C:92:LYS:CE	2.36	0.55
9:c:322:LEU:HD21	9:c:351:PHE:CD1	2.42	0.55
10:U:1307:ARG:HH11	13:a:1002:HIS:HE1	1.42	0.55
11:O:481:LEU:N	11:Q:693:ILE:HD11	2.18	0.55
11:O:791:LYS:HB3	11:Q:593:ASP:CB	2.36	0.55
12:b:174:HIS:CG	13:a:921:LYS:HZ3	2.24	0.55
12:b:221:THR:HG23	13:a:918:GLU:CB	2.29	0.55
4:R:477:ILE:CG1	2:T:360:ASN:OD1	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:481:HIS:ND1	13:a:1201:ILE:CG1	2.43	0.55
12:B:219:ARG:NH1	13:A:917:GLY:CA	2.43	0.55
6:L:881:GLN:HE21	6:L:926:ILE:HG23	1.72	0.55
6:L:1695:LEU:CG	9:C:247:GLN:CG	2.82	0.55
6:l:617:GLU:C	13:a:1313:GLY:HA3	2.32	0.55
7:e:24:GLY:HA3	9:c:29:PRO:CD	2.34	0.55
10:U:1182:ILE:CG2	10:U:1202:ILE:HG23	2.36	0.55
10:U:1307:ARG:HH22	13:a:1001:LYS:CG	2.19	0.55
11:O:437:LEU:CD2	11:Q:699:PRO:HA	2.30	0.55
11:O:459:GLN:C	11:Q:703:GLN:CD	2.72	0.55
11:O:460:ILE:N	11:Q:703:GLN:CB	1.90	0.55
4:R:447:ARG:CZ	3:S:706:LEU:HD11	2.36	0.55
5:g:24:TYR:CG	15:f:732:ARG:NH1	2.75	0.55
6:l:1709:ARG:NH1	4:R:243:HIS:CE1	2.67	0.55
7:E:319:LEU:HA	9:C:11:THR:H	1.70	0.55
7:e:296:SER:HB2	9:c:23:ILE:O	2.06	0.55
9:c:205:GLY:HA2	9:c:207:MET:CE	2.37	0.55
9:c:316:THR:N	4:R:462:PHE:HE2	2.05	0.55
10:U:1313:ARG:HD3	13:a:796:HIS:HA	1.87	0.55
11:O:12:VAL:N	15:f:586:GLY:HA2	2.19	0.55
11:O:673:VAL:CG2	11:Q:787:ILE:CG1	2.84	0.55
12:b:196:THR:HG21	13:a:634:HIS:CD2	2.39	0.55
2:t:357:LEU:CA	3:s:1736:LEU:HD11	2.36	0.54
6:L:1522:LYS:CB	9:C:92:LYS:HB3	2.29	0.54
6:l:1247:ILE:HG22	13:a:1278:SER:HA	1.88	0.54
6:l:1702:GLU:OE2	4:R:245:LYS:CE	2.53	0.54
7:E:310:MET:CB	9:C:391:TYR:CE2	2.89	0.54
9:c:183:LEU:CD2	9:c:216:LYS:HZ2	2.19	0.54
9:c:565:ARG:HD2	13:a:1267:GLN:HA	1.87	0.54
11:O:590:SER:C	11:Q:796:SER:HB3	2.10	0.54
11:O:776:LYS:C	11:Q:780:PRO:HB2	2.32	0.54
4:R:438:ILE:C	2:T:362:ILE:HG21	2.22	0.54
4:R:632:ARG:CA	2:T:453:GLU:HG2	2.27	0.54
2:t:359:ASN:HA	4:r:535:ASN:N	2.22	0.54
4:r:144:THR:H	4:R:509:LEU:HD12	1.66	0.54
4:r:146:PRO:O	4:R:510:ALA:HA	1.98	0.54
7:E:314:LYS:CD	9:C:3:GLU:C	2.77	0.54
9:c:502:ASP:OD1	9:c:532:ARG:NH1	2.40	0.54
11:O:31:LEU:HD12	15:f:588:GLU:HB3	1.89	0.54
12:B:222:LEU:HG	13:A:921:LYS:HA	1.88	0.54
15:F:342:HIS:CD2	15:F:344:LYS:HE3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:321:ARG:HD2	15:F:461:GLY:HA3	1.78	0.54
1:H:720:GLU:OE1	11:Q:7:GLU:OE2	2.25	0.54
7:E:2:PHE:CD2	9:C:11:THR:OG1	2.57	0.54
7:E:69:GLU:HG3	9:C:469:LYS:HG2	1.89	0.54
11:O:785:LEU:CG	11:Q:651:ILE:HG22	2.38	0.54
14:i:455:ILE:CD1	14:i:461:LEU:HD12	2.38	0.54
2:t:366:LEU:CD1	4:r:532:LEU:CD1	2.85	0.54
6:l:851:ASN:HD21	6:l:915:LYS:CE	2.21	0.54
6:l:881:GLN:HE21	6:l:926:ILE:HG23	1.72	0.54
7:E:310:MET:HB2	9:C:1:MET:N	2.22	0.54
8:d:12:HIS:C	9:c:69:ARG:NH2	2.55	0.54
9:c:527:MET:CE	9:c:538:LYS:HE2	2.38	0.54
10:U:1313:ARG:O	13:a:798:SER:O	2.26	0.54
11:O:470:ARG:CG	11:Q:668:ILE:CG1	2.77	0.54
11:O:652:ALA:HB3	11:Q:790:SER:H	1.73	0.54
11:M:8:ILE:HA	15:F:435:GLU:CD	2.32	0.54
4:R:446:CYS:CB	3:S:701:GLU:CG	2.58	0.54
4:R:594:TYR:HE1	2:T:401:HIS:HE2	0.63	0.54
1:H:488:GLN:O	15:f:790:LYS:HG2	2.04	0.54
4:r:96:PHE:HZ	4:R:512:VAL:HG22	1.59	0.54
4:r:119:MET:C	4:R:511:ASP:H	2.15	0.54
6:L:851:ASN:HD21	6:L:915:LYS:CE	2.21	0.54
6:L:1699:SER:OG	9:C:254:LEU:CA	2.55	0.54
11:O:470:ARG:CZ	11:Q:671:GLU:CD	2.77	0.54
11:O:605:TRP:HD1	11:Q:791:LYS:HG3	1.69	0.54
11:O:662:LYS:HZ1	11:Q:595:LYS:HZ3	0.64	0.54
11:O:785:LEU:CA	11:Q:582:HIS:CG	2.90	0.54
11:M:35:LEU:CD1	15:F:436:ARG:NE	2.67	0.54
4:R:524:LEU:HD22	4:R:566:LYS:HB3	1.90	0.54
14:i:697:LEU:HD22	14:i:707:TRP:CE2	2.43	0.54
6:L:1646:GLN:CA	9:C:248:THR:HG21	2.22	0.54
7:e:285:SER:HG	9:c:27:TRP:HD1	1.55	0.54
11:Q:317:LEU:HD22	11:Q:376:PHE:HB3	1.88	0.54
4:R:666:ILE:CG1	3:S:828:VAL:HG22	1.94	0.54
4:r:95:LEU:HB3	4:R:519:HIS:HD2	1.61	0.54
6:L:1695:LEU:CA	9:C:255:LYS:HD2	2.36	0.54
7:e:7:ILE:CA	9:c:54:MET:O	2.52	0.54
11:O:479:ILE:HG22	11:Q:705:GLU:HG2	1.90	0.54
11:O:782:PRO:CG	11:Q:777:HIS:CE1	2.84	0.54
3:S:824:VAL:HA	2:T:476:LEU:CD1	2.37	0.54
1:H:131:VAL:HG22	11:Q:618:LYS:HZ1	1.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:719:GLU:CB	11:Q:10:ARG:HB2	2.27	0.54
4:r:145:ILE:CD1	4:R:506:PRO:N	2.65	0.54
5:G:285:VAL:HG23	15:F:266:ASP:CA	2.38	0.54
6:L:1244:MET:SD	13:A:1285:ARG:N	2.81	0.54
6:L:1697:ASP:C	9:C:254:LEU:HB3	2.33	0.54
6:l:481:HIS:CE1	13:a:1198:THR:O	2.61	0.54
9:c:256:TRP:CB	4:R:461:LEU:CG	2.85	0.54
11:P:317:LEU:HD22	11:P:376:PHE:HB3	1.88	0.54
11:O:464:VAL:O	11:Q:690:ALA:HA	2.08	0.54
4:R:535:ASN:CG	3:S:706:LEU:HD22	2.23	0.54
4:R:616:ALA:CB	2:T:422:LEU:HD23	2.22	0.54
2:t:382:VAL:CG2	3:s:1758:SER:HB3	2.38	0.54
5:G:16:ILE:HB	15:F:303:LYS:HB2	1.87	0.54
6:l:172:ARG:HB2	10:U:1127:THR:HA	1.90	0.54
7:E:107:THR:HG21	7:E:153:TRP:CD1	2.43	0.54
9:C:573:LEU:HB2	9:C:605:ARG:CZ	2.38	0.54
9:c:86:ALA:HA	9:c:94:ARG:NH1	2.23	0.54
9:c:551:PHE:HB3	9:c:589:ILE:HD13	1.90	0.54
11:O:437:LEU:HD11	11:Q:700:ALA:H	1.73	0.54
11:M:91:PRO:HG2	15:F:586:GLY:HA3	1.90	0.54
14:I:697:LEU:HD22	14:I:707:TRP:CE2	2.43	0.54
4:R:613:PHE:CD2	2:T:418:LEU:HD22	2.32	0.54
1:H:720:GLU:H	11:Q:7:GLU:HG2	1.72	0.54
2:t:357:LEU:HA	3:s:1736:LEU:HD11	1.89	0.54
5:g:34:ASP:HB3	13:a:1382:SER:OG	2.08	0.54
5:G:34:ASP:HB3	13:A:1382:SER:OG	2.08	0.54
6:L:1245:ALA:N	13:A:1285:ARG:HH22	1.87	0.54
7:E:2:PHE:CA	9:C:11:THR:OG1	2.56	0.54
7:e:69:GLU:OE1	9:c:469:LYS:HD2	2.08	0.54
9:C:205:GLY:HA2	9:C:207:MET:HE2	1.88	0.54
4:R:503:GLU:OE1	2:T:392:GLN:CG	2.56	0.54
4:R:636:THR:CA	2:T:450:HIS:N	2.71	0.54
3:S:709:ILE:HG21	2:T:358:LEU:HD21	1.88	0.54
1:H:496:LEU:CD1	15:f:791:HIS:HD2	2.15	0.53
1:h:321:ARG:HD3	15:f:461:GLY:O	2.08	0.53
5:G:54:ARG:NH2	13:A:1334:ARG:NE	2.37	0.53
7:E:9:ALA:HB3	9:C:36:GLU:O	2.08	0.53
9:c:316:THR:OG1	4:R:462:PHE:CD2	2.58	0.53
11:O:786:THR:CB	11:Q:578:ALA:HA	2.35	0.53
11:O:790:SER:HA	11:Q:454:ARG:HB3	1.90	0.53
14:I:580:SER:HG	14:i:1126:PHE:HZ	1.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:446:CYS:SG	3:S:702:SER:HA	2.48	0.53
1:H:234:ILE:HD11	11:N:34:ARG:HH22	1.73	0.53
1:H:552:GLY:HA3	11:N:547:SER:HB2	1.90	0.53
2:t:365:SER:CB	4:r:532:LEU:HA	2.38	0.53
5:G:266:HIS:CD2	15:F:264:ASN:HB2	2.44	0.53
5:G:271:ILE:H	15:F:255:TRP:CB	2.21	0.53
5:G:279:SER:HB3	15:F:265:GLY:N	2.21	0.53
9:c:16:LEU:HD13	9:c:55:TYR:CD2	2.44	0.53
9:c:86:ALA:HA	9:c:94:ARG:HH12	1.72	0.53
9:c:320:THR:CG2	4:R:128:GLY:C	2.81	0.53
11:O:594:GLN:O	11:Q:794:ARG:N	2.38	0.53
11:O:673:VAL:HG22	11:Q:787:ILE:CG1	2.37	0.53
13:a:494:TRP:CD2	13:a:816:ILE:HD11	2.43	0.53
4:r:144:THR:N	4:R:509:LEU:HD12	1.78	0.53
7:E:315:CYS:SG	9:C:8:PRO:CB	2.96	0.53
9:C:641:LEU:HD22	13:A:1121:LEU:HD12	1.80	0.53
4:R:493:LEU:HB2	2:T:383:VAL:HG23	1.89	0.53
4:R:620:GLN:HG2	2:T:425:GLN:NE2	2.22	0.53
6:L:996:ALA:HB2	6:L:1001:MET:HE1	1.91	0.53
6:L:1249:GLN:NE2	13:A:1273:THR:O	2.31	0.53
6:l:1246:ALA:CA	13:a:1275:LYS:CB	2.67	0.53
9:c:289:GLU:HG3	9:c:313:LYS:NZ	2.24	0.53
10:U:1362:GLN:OE1	13:a:1024:ARG:HG2	2.07	0.53
3:s:1735:ILE:HB	4:r:548:CYS:HB3	0.53	0.53
4:r:109:HIS:HD2	4:R:507:HIS:HB2	1.64	0.53
5:g:275:ILE:CB	15:f:255:TRP:CZ2	2.90	0.53
6:L:614:ALA:CB	13:A:1247:ARG:HH22	2.21	0.53
6:L:1253:LEU:HD11	13:A:1275:LYS:O	2.07	0.53
6:l:1645:LEU:HD21	6:l:1707:ILE:HD11	1.90	0.53
7:e:6:SER:HA	9:c:55:TYR:CE2	2.43	0.53
10:U:1211:PRO:CD	12:b:57:THR:HG22	1.90	0.53
11:O:461:PHE:HB3	11:Q:705:GLU:CA	2.38	0.53
11:O:470:ARG:CD	11:Q:668:ILE:CG1	2.64	0.53
11:O:482:LEU:CD1	11:Q:794:ARG:NH1	2.56	0.53
11:O:538:ILE:HG12	11:Q:708:GLU:HB2	1.91	0.53
12:B:88:ALA:CB	13:A:499:LYS:HZ1	2.22	0.53
13:A:494:TRP:CD2	13:A:816:ILE:HD11	2.43	0.53
3:S:821:ASN:CB	2:T:469:LEU:HD21	2.36	0.53
1:H:554:GLN:OE1	11:N:544:PRO:CG	2.57	0.53
1:h:666:ILE:CD1	1:h:702:VAL:HG13	2.38	0.53
5:G:13:GLU:CG	13:A:1383:ALA:CB	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:1699:SER:OG	9:C:254:LEU:HB2	2.06	0.53
6:L:1760:MET:HE3	6:L:1902:ILE:HD12	1.90	0.53
9:c:250:THR:O	4:R:459:SER:C	2.51	0.53
9:c:624:SER:CB	11:M:14:ASN:CG	2.81	0.53
4:R:578:VAL:CB	3:S:732:PHE:HD1	2.17	0.53
1:H:313:GLU:OE1	11:M:1:MET:CA	2.57	0.53
5:G:277:ALA:HB2	15:F:261:LEU:HD21	1.90	0.53
6:L:468:GLN:HG3	13:A:1196:PRO:CD	2.34	0.53
7:e:107:THR:HG21	7:e:153:TRP:CD1	2.43	0.53
8:d:11:SER:CB	9:c:66:PRO:O	2.57	0.53
9:c:261:GLU:HG2	4:R:1:MET:SD	2.49	0.53
11:O:602:VAL:CG2	11:Q:791:LYS:CB	2.87	0.53
11:O:609:LEU:HD11	11:Q:788:SER:OG	2.09	0.53
11:M:31:LEU:HD11	15:F:436:ARG:HD3	1.73	0.53
4:R:1:MET:HE2	2:T:374:LYS:CD	2.38	0.53
3:s:1739:ILE:CD1	4:r:552:LEU:CB	2.85	0.53
4:r:122:GLU:N	4:R:506:PRO:HB2	2.06	0.53
6:L:1699:SER:HG	9:C:251:GLU:C	2.16	0.53
6:l:1760:MET:HE3	6:l:1902:ILE:HD12	1.90	0.53
7:E:12:LYS:CD	9:C:48:ALA:N	2.72	0.53
7:E:18:VAL:HG23	9:C:24:GLY:CA	2.32	0.53
7:E:315:CYS:SG	9:C:8:PRO:CG	2.97	0.53
9:c:252:PHE:CD2	4:R:461:LEU:HD11	2.43	0.53
11:O:481:LEU:HD12	11:Q:693:ILE:CA	1.95	0.53
11:O:599:GLY:HA3	11:Q:795:PHE:CE2	2.44	0.53
13:A:1090:ARG:NH1	15:F:909:ARG:CD	2.48	0.53
4:R:616:ALA:CB	2:T:422:LEU:HG	2.39	0.53
3:S:713:ILE:HG12	2:T:361:LEU:HD23	1.91	0.53
1:H:158:PRO:CB	11:N:475:ILE:HD13	1.90	0.53
1:H:234:ILE:CD1	11:N:34:ARG:NH2	2.72	0.53
2:t:364:TRP:CD1	3:s:1740:ARG:CG	2.92	0.53
5:g:285:VAL:HG23	15:f:265:GLY:O	2.06	0.53
7:E:22:PHE:CZ	9:C:439:ARG:HG2	2.44	0.53
8:D:125:SER:HB3	9:C:479:ARG:HE	1.71	0.53
8:D:181:THR:HG21	8:D:198:ARG:CZ	2.39	0.53
9:C:641:LEU:HD21	13:A:1121:LEU:CB	2.38	0.53
9:c:416:GLN:HE22	9:c:450:LYS:HZ3	0.64	0.53
9:c:646:VAL:CG2	13:a:1080:TYR:CE1	2.91	0.53
11:O:31:LEU:CB	15:f:592:LYS:CE	2.58	0.53
4:R:496:GLN:HG3	2:T:385:ALA:CA	2.39	0.53
4:R:662:LEU:HD21	3:S:825:LYS:CB	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:14:ASP:CA	13:a:1381:TYR:C	2.69	0.53
5:g:19:ALA:O	15:f:262:VAL:CG1	2.56	0.53
7:E:5:ARG:HG2	9:C:55:TYR:CG	1.98	0.53
7:e:22:PHE:CZ	9:c:439:ARG:HG2	2.44	0.53
9:c:472:ALA:HB1	9:c:496:PHE:CE1	2.43	0.53
11:O:470:ARG:CZ	11:Q:668:ILE:C	2.79	0.53
11:O:780:PRO:HB2	11:Q:656:LEU:CB	2.36	0.53
4:R:666:ILE:CD1	2:T:476:LEU:CG	2.79	0.53
3:S:775:ASN:HD22	2:T:421:ILE:CG2	2.21	0.53
3:s:1739:ILE:HD11	4:r:552:LEU:CB	2.39	0.52
5:G:19:ALA:O	15:F:262:VAL:CG1	2.57	0.52
5:G:270:SER:C	15:F:255:TRP:HB2	1.82	0.52
5:G:271:ILE:H	15:F:255:TRP:C	2.16	0.52
6:l:51:ILE:HG23	10:U:1086:ARG:HH22	1.70	0.52
7:e:27:MET:SD	9:c:33:LEU:CD2	2.97	0.52
7:e:148:MET:CB	9:c:499:LEU:HD11	2.36	0.52
7:e:321:GLY:C	9:c:16:LEU:C	2.77	0.52
10:U:1386:ARG:HD3	13:a:1152:SER:CB	2.38	0.52
15:F:496:HIS:CE1	15:F:497:TYR:CZ	2.97	0.52
15:f:496:HIS:CE1	15:f:497:TYR:CZ	2.97	0.52
4:R:363:PHE:CE1	4:R:551:LEU:CD2	2.92	0.52
4:R:616:ALA:HA	2:T:422:LEU:HD22	1.84	0.52
4:R:634:PHE:O	2:T:449:GLN:CB	2.58	0.52
5:g:275:ILE:C	15:f:255:TRP:HE1	2.17	0.52
6:L:743:ARG:NH2	8:d:24:ALA:CB	2.67	0.52
6:l:9:SER:HA	6:l:78:LYS:CE	2.39	0.52
9:c:606:MET:CE	9:c:634:ARG:NH2	2.62	0.52
10:U:1307:ARG:HH12	13:a:1002:HIS:CE1	1.97	0.52
11:O:775:ILE:HD12	11:Q:785:LEU:HD21	1.88	0.52
11:O:776:LYS:C	11:Q:780:PRO:CB	2.82	0.52
12:b:157:LYS:CD	13:a:524:ARG:CD	2.76	0.52
13:A:1174:GLU:OE1	15:F:901:GLU:CD	2.52	0.52
4:R:479:ARG:NH2	2:T:361:LEU:C	2.67	0.52
2:t:378:GLN:CG	3:s:1754:LYS:CB	2.87	0.52
6:l:617:GLU:OE2	13:a:1246:ILE:HG23	2.09	0.52
9:c:239:PRO:HG2	9:c:256:TRP:HA	1.90	0.52
11:O:473:SER:HB3	11:Q:664:GLU:OE1	2.09	0.52
11:O:481:LEU:C	11:Q:705:GLU:OE2	2.51	0.52
1:H:666:ILE:CD1	1:H:702:VAL:HG13	2.38	0.52
2:t:364:TRP:HE1	3:s:1740:ARG:HG3	1.64	0.52
4:r:111:ALA:CB	4:R:511:ASP:OD2	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:40:ASP:CA	10:U:1130:THR:CG2	2.81	0.52
8:d:279:GLU:HG3	9:c:453:ARG:HH11	1.73	0.52
9:c:142:LEU:HD11	9:c:167:TRP:CZ2	2.44	0.52
11:M:91:PRO:HG2	15:F:586:GLY:CA	2.39	0.52
15:f:321:TYR:CE1	15:f:632:ARG:HD3	2.45	0.52
4:R:594:TYR:CE1	2:T:401:HIS:CD2	2.95	0.52
2:t:382:VAL:CG2	3:s:1758:SER:CB	2.83	0.52
5:G:3:SER:O	15:F:308:LYS:O	2.27	0.52
5:G:271:ILE:N	15:F:255:TRP:CB	2.70	0.52
6:L:9:SER:HA	6:L:78:LYS:CE	2.39	0.52
6:L:1525:VAL:CG1	9:C:92:LYS:HZ1	2.23	0.52
6:L:1645:LEU:HD21	6:L:1707:ILE:HD11	1.90	0.52
6:l:173:PHE:CD2	10:U:1128:MET:CG	2.90	0.52
8:d:181:THR:HG21	8:d:198:ARG:CZ	2.39	0.52
9:c:254:LEU:HG	4:R:459:SER:CA	2.38	0.52
9:c:642:ALA:N	13:a:1125:ASN:CB	2.73	0.52
9:c:653:GLU:HB3	13:a:1042:LEU:CD1	2.40	0.52
11:O:455:LYS:HG2	11:Q:695:ASN:CA	2.36	0.52
11:O:596:GLU:CA	11:Q:795:PHE:CG	2.84	0.52
11:O:649:ALA:HB2	11:Q:788:SER:HB2	1.72	0.52
11:O:658:LEU:CA	11:Q:592:TYR:OH	2.57	0.52
11:O:779:THR:CG2	11:Q:662:LYS:HG3	2.29	0.52
12:B:120:ILE:HG23	13:A:520:GLN:HE21	1.67	0.52
4:R:362:LYS:O	4:R:554:ARG:HD2	2.09	0.52
3:S:736:SER:C	3:S:737:GLU:CA	2.77	0.52
2:t:356:GLN:O	3:s:1736:LEU:HD13	2.04	0.52
5:g:271:ILE:N	15:f:255:TRP:CB	2.68	0.52
6:l:1245:ALA:CB	13:a:1274:THR:CA	2.88	0.52
9:c:116:MET:CE	9:c:137:LEU:HD11	2.37	0.52
10:U:1309:PRO:O	13:a:799:VAL:HG11	2.09	0.52
3:S:736:SER:O	3:S:738:GLU:N	2.41	0.52
1:H:472:GLU:HG2	15:f:837:LYS:HE2	1.91	0.52
1:H:711:ILE:CG2	11:Q:11:TYR:OH	2.58	0.52
1:h:721:GLN:OE1	11:P:334:LYS:CD	2.55	0.52
9:C:638:ALA:CB	13:A:1128:ARG:CD	2.88	0.52
9:c:255:LYS:N	4:R:461:LEU:HD21	2.25	0.52
9:c:625:ILE:HD11	11:M:16:GLN:O	1.81	0.52
11:O:458:LYS:CB	11:Q:695:ASN:H	2.22	0.52
11:O:784:LYS:N	11:Q:652:ALA:CB	2.37	0.52
13:A:829:ARG:HA	13:A:832:PHE:CD2	2.45	0.52
13:a:933:VAL:HG12	13:a:943:ILE:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:489:ALA:C	15:f:790:LYS:O	2.53	0.52
5:G:279:SER:OG	15:F:265:GLY:CA	2.56	0.52
6:L:617:GLU:HG3	13:A:1312:HIS:CE1	2.43	0.52
9:c:18:GLN:O	9:c:19:GLN:HB2	2.09	0.52
9:c:409:PHE:CE2	9:c:422:PHE:CE2	2.98	0.52
9:c:527:MET:HG3	9:c:534:THR:HA	1.92	0.52
11:O:463:ARG:C	11:Q:709:CYS:HB2	2.35	0.52
11:O:786:THR:N	11:Q:582:HIS:CG	2.75	0.52
12:b:114:LYS:HE2	13:a:510:GLN:HE22	1.74	0.52
4:R:477:ILE:HG23	2:T:360:ASN:OD1	2.10	0.52
1:H:321:ARG:HD3	15:F:461:GLY:O	2.10	0.52
4:r:145:ILE:HG22	4:R:510:ALA:CB	2.35	0.52
5:g:277:ALA:HB3	15:f:253:VAL:CG1	2.39	0.52
5:g:304:LYS:HG2	15:f:267:LYS:HB2	1.92	0.52
6:L:617:GLU:CA	13:A:1312:HIS:CE1	2.93	0.52
9:c:596:TYR:CE2	13:a:1117:VAL:O	2.63	0.52
11:O:786:THR:CG2	11:Q:578:ALA:HB3	2.26	0.52
4:R:489:SER:HB3	2:T:377:LEU:HD21	0.55	0.52
4:R:534:LEU:CA	2:T:358:LEU:N	2.42	0.52
1:H:471:ARG:CZ	15:f:896:ARG:HH21	2.21	0.52
6:L:1523:VAL:CG2	9:C:93:SER:H	2.23	0.52
6:l:44:LYS:NZ	10:U:1131:LEU:HB2	2.25	0.52
6:l:481:HIS:ND1	13:a:1201:ILE:HG13	2.25	0.52
7:e:282:TRP:CZ2	9:c:39:TYR:HB3	2.45	0.52
7:e:306:LYS:HE2	9:c:399:PHE:HZ	1.75	0.52
8:D:122:HIS:CB	9:C:478:ASN:O	2.53	0.52
8:d:16:ARG:HH22	9:c:446:LYS:HZ3	1.56	0.52
9:c:322:LEU:CD2	9:c:351:PHE:CD1	2.91	0.52
9:c:437:MET:HE1	9:c:451:ALA:HA	1.92	0.52
11:O:785:LEU:C	11:Q:652:ALA:HB2	2.35	0.52
13:a:1174:GLU:OE1	15:f:901:GLU:CD	2.52	0.52
5:g:269:TRP:C	15:f:255:TRP:H	2.18	0.51
5:G:302:VAL:N	15:F:268:LEU:HD23	2.16	0.51
6:L:724:LEU:O	13:A:1397:ASN:CG	2.54	0.51
10:U:1309:PRO:O	13:a:799:VAL:CG2	2.48	0.51
11:N:317:LEU:HD23	11:N:385:LEU:HD11	1.92	0.51
15:F:321:TYR:CE1	15:F:632:ARG:HD3	2.45	0.51
1:H:465:GLU:OE1	11:N:23:ARG:CZ	2.57	0.51
1:H:491:ASP:HB3	15:f:793:GLN:CA	2.36	0.51
5:G:275:ILE:C	15:F:255:TRP:HE1	2.19	0.51
6:l:996:ALA:HB2	6:l:1001:MET:HE1	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:320:THR:N	4:R:128:GLY:O	2.42	0.51
11:O:3:ARG:CZ	15:f:562:GLU:OE1	2.58	0.51
11:O:317:LEU:HD23	11:O:385:LEU:HD11	1.92	0.51
11:O:454:ARG:CB	11:Q:695:ASN:ND2	2.68	0.51
11:O:468:THR:HG1	11:Q:664:GLU:CD	2.11	0.51
11:O:775:ILE:HD12	11:Q:785:LEU:CD1	2.39	0.51
11:M:317:LEU:HD23	11:M:385:LEU:HD11	1.92	0.51
12:B:114:LYS:HE2	13:A:510:GLN:HE22	1.74	0.51
13:A:564:ARG:HD2	13:A:567:PHE:CE2	2.46	0.51
14:i:560:ALA:HB1	14:i:576:PHE:CZ	2.45	0.51
1:H:554:GLN:CD	11:N:544:PRO:CG	2.76	0.51
4:r:62:GLU:CD	4:r:87:LYS:HZ2	2.17	0.51
4:r:120:VAL:N	4:R:509:LEU:C	2.64	0.51
7:E:15:ILE:C	9:C:37:THR:HG1	2.16	0.51
8:D:11:SER:HB3	9:C:66:PRO:C	2.35	0.51
9:c:625:ILE:CD1	11:M:17:ASN:OD1	2.40	0.51
10:U:1307:ARG:NH2	13:a:1001:LYS:CG	2.68	0.51
11:O:455:LYS:O	11:Q:695:ASN:O	2.28	0.51
11:O:463:ARG:CG	11:Q:707:GLN:OE1	2.58	0.51
1:H:715:TYR:CD1	11:Q:11:TYR:CA	2.92	0.51
4:r:175:LEU:HD21	4:R:511:ASP:OD1	2.01	0.51
5:g:285:VAL:N	15:f:266:ASP:O	2.43	0.51
5:G:14:ASP:CA	13:A:1381:TYR:C	2.69	0.51
6:L:1202:PHE:CB	6:L:1207:ILE:HD11	2.41	0.51
6:L:1525:VAL:CB	9:C:92:LYS:HZ2	2.20	0.51
7:e:22:PHE:HE1	9:c:439:ARG:HA	1.73	0.51
9:c:409:PHE:CE2	9:c:422:PHE:HE2	2.28	0.51
11:O:32:PHE:O	15:f:587:ASP:HB2	2.11	0.51
12:b:120:ILE:CG2	13:a:520:GLN:NE2	2.50	0.51
4:R:581:LEU:CD1	3:S:734:VAL:CG2	2.88	0.51
5:G:271:ILE:CB	15:F:255:TRP:O	2.54	0.51
6:l:173:PHE:HD2	10:U:1128:MET:HG2	1.70	0.51
7:E:310:MET:HB3	9:C:391:TYR:CE2	2.46	0.51
8:d:16:ARG:NH2	9:c:446:LYS:NZ	2.59	0.51
11:M:11:TYR:CB	15:F:435:GLU:CD	2.84	0.51
4:R:363:PHE:CE1	4:R:551:LEU:HD12	2.25	0.51
4:R:670:ASN:OD1	2:T:479:VAL:HG13	2.11	0.51
3:S:713:ILE:HG23	2:T:361:LEU:CD2	2.39	0.51
14:i:809:LYS:HE2	14:i:816:TYR:CE2	2.46	0.51
1:H:496:LEU:HD11	15:f:791:HIS:HA	1.91	0.51
1:H:719:GLU:OE1	11:Q:10:ARG:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:879:LEU:O	1:h:882:VAL:HG22	2.10	0.51
2:t:364:TRP:HA	3:s:1743:ILE:HD12	1.89	0.51
6:L:613:LEU:CG	13:A:1247:ARG:CD	2.87	0.51
7:e:119:VAL:HG22	7:e:130:LEU:HD11	1.93	0.51
8:D:125:SER:N	9:C:479:ARG:CZ	2.73	0.51
9:c:256:TRP:CB	4:R:461:LEU:CD1	2.80	0.51
9:c:652:GLN:C	13:a:1074:ASN:ND2	2.69	0.51
11:O:648:GLU:CG	11:Q:789:PRO:O	2.17	0.51
11:O:783:THR:CB	11:Q:602:VAL:CB	2.88	0.51
11:O:791:LYS:HB3	11:Q:454:ARG:NH2	2.26	0.51
3:S:751:HIS:CG	2:T:400:LEU:HD11	2.45	0.51
1:H:719:GLU:CD	11:Q:10:ARG:N	2.68	0.51
1:h:447:MET:HE2	1:h:478:TRP:HB3	1.93	0.51
4:r:146:PRO:HD2	4:R:505:LEU:HD23	1.92	0.51
5:g:267:VAL:O	15:f:253:VAL:HB	2.11	0.51
5:g:287:LEU:CD2	15:f:268:LEU:HD11	2.41	0.51
6:L:1244:MET:CE	13:A:1281:ASP:C	2.84	0.51
6:l:620:GLN:HG2	13:a:1339:TYR:HA	1.91	0.51
7:e:148:MET:CG	9:c:499:LEU:CD2	2.86	0.51
9:c:318:LYS:HD3	4:R:131:SER:HB3	1.92	0.51
11:O:456:TRP:CD1	11:Q:697:CYS:HB3	2.46	0.51
11:O:482:LEU:HB3	11:Q:794:ARG:HH12	1.74	0.51
11:O:792:SER:OG	11:Q:454:ARG:NH1	2.43	0.51
14:I:809:LYS:HE2	14:I:816:TYR:CE2	2.46	0.51
4:R:444:LEU:HD23	4:R:551:LEU:CD2	2.40	0.51
4:R:606:ALA:H	2:T:411:GLN:HE22	1.39	0.51
4:R:676:GLN:HG2	3:S:839:TRP:CE3	2.45	0.51
5:g:286:THR:CA	15:f:268:LEU:HD21	2.39	0.51
5:G:304:LYS:HG2	15:F:267:LYS:HB2	1.93	0.51
6:L:777:PRO:HB3	7:E:258:SER:CA	2.28	0.51
6:l:481:HIS:NE2	13:a:1203:GLY:N	2.57	0.51
7:e:148:MET:SD	9:c:476:LEU:CD2	2.99	0.51
11:M:35:LEU:HD11	15:F:436:ARG:NE	2.23	0.51
12:b:90:LEU:HD12	13:a:499:LYS:CB	2.40	0.51
13:a:564:ARG:HD2	13:a:567:PHE:CE2	2.46	0.51
1:H:879:LEU:O	1:H:882:VAL:HG22	2.10	0.51
2:t:361:ILE:N	3:s:1736:LEU:CD2	2.68	0.51
4:r:117:GLY:HA2	4:R:513:LYS:CG	2.40	0.51
5:g:292:VAL:CG1	15:f:616:CYS:C	2.83	0.51
6:L:1649:VAL:HG21	6:L:1703:LEU:HD12	1.93	0.51
6:l:44:LYS:HE2	10:U:1134:ASP:OD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:1222:GLN:HE21	6:l:1275:HIS:CD2	2.29	0.51
7:E:311:ASP:OD2	9:C:391:TYR:CB	2.47	0.51
7:e:296:SER:N	9:c:25:PHE:CE1	2.78	0.51
9:C:653:GLU:OE1	13:A:1042:LEU:HD11	2.04	0.51
9:c:293:LEU:O	9:c:296:ARG:HB3	2.11	0.51
9:c:323:HIS:CB	4:R:129:LYS:HD3	2.22	0.51
9:c:390:LEU:CB	9:c:394:ALA:O	2.58	0.51
11:O:468:THR:CA	11:Q:667:ILE:HD12	2.41	0.51
11:O:540:LYS:HE3	11:Q:711:LEU:CD1	2.41	0.51
12:b:196:THR:HG23	13:a:634:HIS:CG	2.34	0.51
15:f:557:GLU:HA	15:f:560:PHE:CE1	2.46	0.51
3:S:835:LEU:HD21	2:T:483:LEU:CD1	2.41	0.51
1:H:726:ALA:HA	11:Q:14:ASN:OD1	2.11	0.51
3:s:1728:VAL:HG12	4:r:542:SER:C	2.35	0.51
8:D:12:HIS:HA	9:C:69:ARG:HH11	1.75	0.51
9:c:320:THR:HG21	4:R:132:GLU:H	1.76	0.51
11:O:464:VAL:CG2	11:Q:704:GLU:C	2.75	0.51
12:b:204:LEU:HD21	12:b:237:MET:SD	2.51	0.51
13:a:829:ARG:HA	13:a:832:PHE:CD2	2.45	0.51
4:R:493:LEU:HB3	2:T:382:GLN:CG	2.30	0.51
4:R:659:LEU:CD1	2:T:469:LEU:HD11	2.26	0.51
5:g:28:LEU:HD13	15:f:306:MET:HE3	1.93	0.50
6:l:1649:VAL:HG21	6:l:1703:LEU:HD12	1.93	0.50
7:e:285:SER:HB3	9:c:27:TRP:HD1	1.76	0.50
7:e:298:ASP:CA	9:c:22:HIS:CD2	2.82	0.50
9:C:346:ILE:HG21	9:C:362:PHE:CE2	2.46	0.50
11:O:651:ILE:CA	11:Q:789:PRO:HB3	2.42	0.50
11:Q:317:LEU:HD23	11:Q:385:LEU:HD11	1.92	0.50
12:B:90:LEU:HB2	13:A:499:LYS:HD3	1.93	0.50
12:B:202:LEU:HD21	12:B:237:MET:CE	2.41	0.50
4:R:62:GLU:CD	4:R:87:LYS:HZ2	2.18	0.50
1:H:280:ILE:HD11	1:H:340:TYR:CD2	2.46	0.50
5:G:292:VAL:CG1	15:F:616:CYS:C	2.84	0.50
6:L:468:GLN:HG3	13:A:1195:ASN:OD1	2.11	0.50
9:C:565:ARG:HH22	13:A:1221:ASP:CB	2.25	0.50
9:C:645:ILE:HD13	13:A:1122:ALA:N	2.01	0.50
9:c:626:ASP:O	9:c:630:VAL:HG23	2.10	0.50
11:O:592:TYR:N	11:Q:798:LYS:H	2.07	0.50
11:O:605:TRP:HD1	11:Q:791:LYS:CG	2.23	0.50
11:O:791:LYS:CB	11:Q:597:TYR:HE2	2.24	0.50
13:A:933:VAL:HG12	13:A:943:ILE:HD11	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:F:557:GLU:HA	15:F:560:PHE:CE1	2.46	0.50
4:R:490:PRO:C	2:T:377:LEU:O	2.54	0.50
4:R:596:ARG:NH2	3:S:746:GLU:CB	2.55	0.50
5:G:28:LEU:HD13	15:F:306:MET:HE3	1.93	0.50
6:L:820:MET:HE1	6:L:850:LEU:HD12	1.93	0.50
6:L:1526:ASP:H	9:C:92:LYS:HE3	1.76	0.50
7:E:314:LYS:CG	9:C:3:GLU:C	2.65	0.50
7:E:317:GLY:C	9:C:8:PRO:HB3	2.32	0.50
7:e:7:ILE:HD13	9:c:54:MET:HE3	1.94	0.50
9:c:47:THR:O	9:c:49:ALA:N	2.44	0.50
9:c:653:GLU:OE2	13:a:1042:LEU:HD13	2.10	0.50
10:U:1359:VAL:HG22	13:a:1027:ASP:CA	2.41	0.50
11:P:317:LEU:HD23	11:P:385:LEU:HD11	1.92	0.50
11:O:464:VAL:HG21	11:Q:704:GLU:C	2.14	0.50
11:O:787:ILE:CA	11:Q:579:ARG:O	2.59	0.50
2:t:356:GLN:OE1	4:r:542:SER:CA	2.50	0.50
8:D:39:ASP:CG	9:C:412:HIS:ND1	2.69	0.50
9:c:145:ASN:C	9:c:145:ASN:ND2	2.69	0.50
9:c:322:LEU:HD21	9:c:351:PHE:CE1	2.46	0.50
11:O:453:LEU:HB3	11:Q:702:GLU:OE1	2.11	0.50
11:O:464:VAL:CG1	11:Q:709:CYS:SG	3.00	0.50
11:O:477:GLU:HA	11:Q:708:GLU:OE1	2.12	0.50
11:O:787:ILE:CD1	11:Q:582:HIS:HD2	2.24	0.50
11:O:791:LYS:HB2	11:Q:597:TYR:CE2	2.47	0.50
4:R:493:LEU:HD12	2:T:379:GLN:O	2.12	0.50
4:R:627:LEU:HD21	3:S:782:ILE:HG12	1.93	0.50
3:S:775:ASN:CG	2:T:425:GLN:HE21	2.20	0.50
1:H:321:ARG:CD	15:F:461:GLY:CA	2.52	0.50
1:H:336:ARG:NH2	5:g:200:GLN:NE2	2.59	0.50
2:t:357:LEU:CG	3:s:1732:SER:CB	2.62	0.50
6:L:1245:ALA:CA	13:A:1285:ARG:HH12	2.24	0.50
9:c:620:LYS:NZ	11:M:9:GLN:OE1	2.42	0.50
9:c:622:ASP:HA	11:M:17:ASN:ND2	2.25	0.50
11:O:461:PHE:C	11:Q:707:GLN:N	2.70	0.50
4:R:493:LEU:HG	2:T:378:GLN:O	2.12	0.50
4:R:581:LEU:HD13	3:S:734:VAL:CG2	2.40	0.50
4:R:636:THR:C	2:T:449:GLN:OE1	2.55	0.50
4:r:146:PRO:HB2	4:R:512:VAL:O	2.12	0.50
6:L:1244:MET:HE2	13:A:1281:ASP:HB3	1.93	0.50
6:l:820:MET:HE1	6:l:850:LEU:HD12	1.93	0.50
7:E:15:ILE:O	9:C:37:THR:OG1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:314:LYS:HE2	9:C:3:GLU:CA	2.37	0.50
7:e:7:ILE:CD1	9:c:33:LEU:HD11	2.41	0.50
11:O:36:TYR:CG	15:f:587:ASP:CB	2.95	0.50
11:O:454:ARG:C	11:Q:698:LEU:CD2	2.66	0.50
11:O:791:LYS:HB2	11:Q:593:ASP:HB3	1.92	0.50
12:B:90:LEU:HD12	13:A:499:LYS:CB	2.40	0.50
12:B:204:LEU:HD21	12:B:237:MET:SD	2.51	0.50
13:A:1170:ILE:HG21	15:F:906:GLU:OE2	2.12	0.50
14:I:560:ALA:HB1	14:I:576:PHE:CZ	2.46	0.50
4:R:526:ARG:CB	4:R:562:GLU:OE2	2.59	0.50
3:S:744:ARG:HH12	2:T:389:THR:HG23	1.77	0.50
1:H:447:MET:HE2	1:H:478:TRP:HB3	1.93	0.50
5:g:3:SER:O	15:f:308:LYS:O	2.30	0.50
5:G:269:TRP:C	15:F:255:TRP:H	2.20	0.50
6:L:1646:GLN:HA	9:C:248:THR:HG21	1.93	0.50
7:E:119:VAL:HG22	7:E:130:LEU:HD11	1.93	0.50
7:e:298:ASP:CG	9:c:22:HIS:NE2	2.64	0.50
9:c:390:LEU:CD1	9:c:392:PHE:CZ	2.95	0.50
11:O:437:LEU:HD11	11:Q:700:ALA:N	2.26	0.50
11:O:470:ARG:NE	11:Q:667:ILE:HG22	2.22	0.50
11:O:780:PRO:CG	11:Q:660:ASP:H	2.24	0.50
4:R:584:GLN:CG	2:T:390:LEU:HD22	2.34	0.50
4:R:588:GLN:HE22	2:T:390:LEU:HD23	1.62	0.50
4:R:635:HIS:NE2	2:T:453:GLU:C	2.62	0.50
1:H:471:ARG:HD2	15:f:896:ARG:NE	2.26	0.50
6:L:1244:MET:N	13:A:1285:ARG:NH2	2.60	0.50
7:e:7:ILE:N	9:c:54:MET:CA	2.62	0.50
7:e:86:TRP:CZ2	7:e:105:LYS:HE2	2.47	0.50
9:c:115:GLU:O	9:c:118:THR:OG1	2.23	0.50
9:c:256:TRP:N	4:R:461:LEU:HD21	1.81	0.50
10:U:1386:ARG:CG	13:a:1152:SER:CA	2.89	0.50
11:O:581:LEU:HB3	11:Q:794:ARG:HE	1.76	0.50
11:O:596:GLU:HA	11:Q:795:PHE:CG	2.44	0.50
11:O:782:PRO:HG2	11:Q:777:HIS:HE1	1.75	0.50
12:B:223:ARG:HB2	13:A:920:HIS:CD2	2.47	0.50
3:S:736:SER:O	3:S:737:GLU:CA	2.60	0.50
3:S:779:PHE:CZ	2:T:428:LEU:HB2	2.09	0.50
1:h:280:ILE:HD11	1:h:340:TYR:CD2	2.46	0.50
2:t:361:ILE:HD13	4:r:443:PRO:HB2	1.91	0.50
6:L:532:LYS:HZ3	13:A:1216:GLN:HE22	1.59	0.50
7:E:322:ASP:O	9:C:16:LEU:O	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:e:27:MET:SD	9:c:33:LEU:HD22	2.52	0.50
7:e:282:TRP:CD1	9:c:39:TYR:CE2	2.99	0.50
9:c:313:LYS:C	4:R:462:PHE:HE1	2.19	0.50
10:U:1362:GLN:CD	13:a:1024:ARG:CG	2.85	0.50
11:O:599:GLY:HA3	11:Q:795:PHE:HE2	1.77	0.50
11:O:600:ARG:CB	11:Q:794:ARG:HD2	2.38	0.50
4:R:577:ARG:CZ	2:T:387:ASP:CG	2.68	0.50
3:S:765:ARG:HA	2:T:414:LEU:HD13	1.94	0.50
3:S:821:ASN:HB2	2:T:469:LEU:CD1	2.41	0.50
14:i:508:HIS:HB3	14:i:531:LEU:HD11	1.94	0.50
6:l:1202:PHE:CB	6:l:1207:ILE:HD11	2.41	0.49
6:l:1246:ALA:N	13:a:1276:GLU:HG3	2.26	0.49
7:E:2:PHE:N	9:C:11:THR:OG1	2.45	0.49
7:e:282:TRP:HB3	9:c:39:TYR:CE2	2.46	0.49
8:D:11:SER:OG	9:C:66:PRO:C	2.55	0.49
8:d:52:ASP:CG	8:d:371:ARG:HH12	2.20	0.49
9:c:622:ASP:CA	11:M:17:ASN:ND2	2.75	0.49
10:U:1386:ARG:CG	13:a:1151:ALA:C	2.68	0.49
11:O:465:PRO:CB	11:Q:686:TYR:HA	2.36	0.49
12:b:90:LEU:HB2	13:a:499:LYS:HD3	1.93	0.49
13:a:1168:SER:O	15:f:858:LYS:CE	2.59	0.49
4:R:490:PRO:O	2:T:377:LEU:C	2.52	0.49
4:R:524:LEU:CD2	4:R:566:LYS:HB3	2.42	0.49
1:h:226:LEU:O	11:P:549:LYS:CG	2.60	0.49
7:E:69:GLU:OE1	9:C:469:LYS:CE	2.60	0.49
7:e:20:PHE:HD2	9:c:26:SER:OG	1.95	0.49
7:e:231:LEU:HD21	9:c:435:LEU:CD2	2.42	0.49
8:D:52:ASP:CG	8:D:371:ARG:HH12	2.20	0.49
9:c:254:LEU:HD22	4:R:465:THR:HG1	1.72	0.49
11:O:459:GLN:CB	11:Q:698:LEU:H	2.25	0.49
11:O:540:LYS:HE3	11:Q:711:LEU:HD11	1.93	0.49
11:O:600:ARG:HB3	11:Q:794:ARG:CD	2.38	0.49
13:A:165:ILE:CD1	13:A:246:HIS:CD2	2.96	0.49
4:R:559:PHE:CE2	3:S:716:PHE:CB	2.76	0.49
1:H:722:ALA:H	11:Q:10:ARG:HH12	1.60	0.49
7:E:86:TRP:CZ2	7:E:105:LYS:CE	2.96	0.49
7:e:86:TRP:CH2	7:e:105:LYS:HE3	2.47	0.49
9:c:372:VAL:CG1	9:c:400:LEU:HD13	2.29	0.49
9:c:622:ASP:CA	11:M:17:ASN:HD21	2.25	0.49
12:b:219:ARG:CD	13:a:917:GLY:HA3	2.22	0.49
12:b:223:ARG:HB2	13:a:920:HIS:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:670:ASN:CG	2:T:479:VAL:CG2	2.85	0.49
6:L:465:GLU:CB	13:A:1197:SER:OG	2.57	0.49
6:L:1222:GLN:HE21	6:L:1275:HIS:CD2	2.29	0.49
6:L:1244:MET:HG3	13:A:1285:ARG:HG2	1.93	0.49
6:L:1248:GLY:HA3	13:A:1260:TRP:CH2	2.12	0.49
9:c:228:CYS:SG	9:c:278:MET:HE2	2.52	0.49
9:c:368:ASN:C	9:c:370:TRP:H	2.19	0.49
10:U:1352:ASP:HA	13:a:1064:ARG:NH2	2.28	0.49
11:O:596:GLU:O	11:Q:794:ARG:CD	2.58	0.49
13:A:1168:SER:O	15:F:858:LYS:CE	2.60	0.49
13:a:165:ILE:CD1	13:a:246:HIS:CD2	2.96	0.49
13:a:1296:ALA:HB2	13:a:1301:TYR:CE2	2.48	0.49
1:H:716:SER:CB	11:Q:3:ARG:NE	2.68	0.49
5:G:285:VAL:N	15:F:266:ASP:O	2.46	0.49
6:L:1202:PHE:HB3	6:L:1207:ILE:HD11	1.93	0.49
6:L:1699:SER:HB3	9:C:253:GLU:C	2.37	0.49
9:c:257:GLN:NE2	4:R:462:PHE:O	2.44	0.49
11:O:459:GLN:HB2	11:Q:698:LEU:H	1.77	0.49
11:O:791:LYS:CB	11:Q:588:LEU:HD13	2.42	0.49
11:O:792:SER:O	11:Q:593:ASP:OD2	2.31	0.49
12:b:196:THR:CG2	13:a:634:HIS:CG	2.95	0.49
12:b:219:ARG:CD	13:a:917:GLY:O	2.12	0.49
13:A:479:ILE:HD11	13:A:501:VAL:CG2	2.42	0.49
4:R:653:GLN:CG	2:T:461:LEU:HD21	2.42	0.49
6:L:1249:GLN:HB2	13:A:1277:SER:H	1.77	0.49
7:E:5:ARG:CG	9:C:55:TYR:CB	2.89	0.49
8:d:127:MET:CE	9:c:477:CYS:O	2.60	0.49
11:O:460:ILE:CA	11:Q:703:GLN:OE1	2.33	0.49
13:A:1248:LEU:HD21	13:A:1259:ALA:CB	2.39	0.49
4:R:482:LEU:HD21	2:T:370:GLU:CB	2.39	0.49
4:R:676:GLN:HE22	3:S:839:TRP:CB	2.24	0.49
2:t:358:GLU:C	4:r:535:ASN:HA	2.37	0.49
5:G:271:ILE:HG12	15:F:697:ARG:HH21	1.64	0.49
6:l:8:ASN:O	6:l:78:LYS:HE3	2.12	0.49
7:E:86:TRP:CH2	7:E:105:LYS:HE3	2.47	0.49
7:e:321:GLY:C	9:c:16:LEU:CB	2.65	0.49
9:c:142:LEU:HD12	9:c:171:HIS:CD2	2.48	0.49
11:O:779:THR:CG2	11:Q:662:LYS:CG	2.84	0.49
13:a:1138:VAL:C	15:f:906:GLU:OE1	2.33	0.49
4:R:606:ALA:CA	2:T:411:GLN:HE22	1.86	0.49
5:g:79:TYR:OH	13:a:1376:LEU:CD2	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:224:GLY:C	15:F:686:ILE:CD1	2.78	0.49
6:L:8:ASN:O	6:L:78:LYS:HE3	2.12	0.49
6:L:777:PRO:CB	7:E:257:LEU:CA	2.74	0.49
6:L:1575:SER:O	9:C:92:LYS:NZ	2.46	0.49
6:l:173:PHE:HD2	10:U:1128:MET:CG	2.25	0.49
6:l:1202:PHE:HB3	6:l:1207:ILE:HD11	1.93	0.49
7:e:314:LYS:HZ1	9:c:3:GLU:HB2	1.78	0.49
9:c:320:THR:H	4:R:131:SER:HB2	1.78	0.49
9:c:409:PHE:CD1	9:c:436:HIS:HB3	2.48	0.49
11:O:454:ARG:NH1	11:Q:695:ASN:OD1	2.45	0.49
11:O:457:LEU:O	11:Q:703:GLN:CA	2.61	0.49
11:O:596:GLU:O	11:Q:794:ARG:HD2	2.13	0.49
11:O:795:PHE:CE2	11:Q:592:TYR:CD2	3.00	0.49
4:R:544:PRO:HG3	3:S:701:GLU:CB	2.35	0.49
4:R:633:SER:O	2:T:449:GLN:NE2	2.45	0.49
1:H:461:ILE:CD1	11:N:28:LYS:HG2	2.41	0.49
6:L:1639:GLN:CG	9:C:246:THR:HG21	2.43	0.49
7:E:13:ASP:HB2	9:C:41:LYS:HG2	1.94	0.49
7:E:86:TRP:CZ2	7:E:105:LYS:HE2	2.47	0.49
7:e:294:ALA:HB2	9:c:27:TRP:NE1	2.28	0.49
8:d:363:ASP:OD2	9:c:450:LYS:NZ	2.46	0.49
9:C:174:GLU:OE2	9:C:300:THR:HG21	2.12	0.49
9:c:416:GLN:OE1	9:c:450:LYS:CE	2.60	0.49
10:U:1211:PRO:HD2	12:b:55:ASP:OD1	2.13	0.49
11:O:463:ARG:HG3	11:Q:707:GLN:HA	1.90	0.49
11:O:787:ILE:C	11:Q:579:ARG:O	2.54	0.49
12:b:202:LEU:HD21	12:b:237:MET:CE	2.41	0.49
13:A:635:LEU:HD13	13:A:896:PRO:HG2	1.94	0.49
4:R:673:MET:CE	3:S:835:LEU:HD11	2.42	0.49
6:L:778:GLU:CA	7:E:258:SER:O	2.49	0.49
6:L:1525:VAL:HB	9:C:92:LYS:HE3	1.94	0.49
7:E:12:LYS:CG	9:C:48:ALA:H	2.25	0.49
7:e:6:SER:CB	9:c:55:TYR:OH	2.46	0.49
9:C:638:ALA:HA	13:A:1125:ASN:OD1	2.11	0.49
9:c:635:LEU:CD2	9:c:639:ARG:CZ	2.84	0.49
10:U:1386:ARG:HG2	13:a:1151:ALA:O	2.11	0.49
11:O:470:ARG:HG3	11:Q:667:ILE:N	2.28	0.49
13:a:1136:TRP:CZ3	15:f:902:ASP:C	2.82	0.49
4:R:495:SER:N	2:T:385:ALA:HB2	2.28	0.49
3:S:709:ILE:HD13	2:T:358:LEU:HD11	1.93	0.49
2:t:361:ILE:O	4:r:533:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:617:GLU:OE1	13:A:1243:CYS:HA	2.13	0.48
6:L:655:GLU:HB3	13:A:1246:ILE:HG22	1.94	0.48
6:L:1247:ILE:HG22	13:A:1279:ALA:CA	2.43	0.48
6:L:1525:VAL:CB	9:C:92:LYS:NZ	2.73	0.48
8:D:122:HIS:CD2	9:C:478:ASN:CB	2.88	0.48
11:O:31:LEU:CG	15:f:592:LYS:CE	2.87	0.48
11:O:35:LEU:HB3	15:f:587:ASP:HA	1.52	0.48
11:O:465:PRO:HB3	11:Q:686:TYR:O	2.13	0.48
11:O:538:ILE:CG2	11:Q:704:GLU:C	2.58	0.48
13:a:479:ILE:HD11	13:a:501:VAL:CG2	2.42	0.48
15:F:828:LEU:HD23	15:F:867:VAL:HG22	1.94	0.48
14:i:168:MET:HE1	14:i:231:MET:HE2	1.94	0.48
5:G:58:GLY:O	13:A:1378:TRP:CD1	2.40	0.48
6:L:1695:LEU:CG	9:C:247:GLN:HG3	2.43	0.48
6:l:857:GLU:HG2	6:l:861:MET:HE2	1.95	0.48
6:l:1243:GLY:CA	13:a:1276:GLU:HG2	2.18	0.48
7:E:29:THR:CB	9:C:35:TYR:CE2	2.94	0.48
7:E:36:VAL:HG23	7:E:55:THR:HG21	1.95	0.48
7:E:310:MET:CA	9:C:391:TYR:CE2	2.88	0.48
7:e:282:TRP:CD2	9:c:39:TYR:HB3	2.47	0.48
9:C:611:GLU:OE2	13:A:1294:TYR:CE1	2.66	0.48
11:O:479:ILE:CG2	11:Q:705:GLU:HG2	2.42	0.48
11:O:538:ILE:HG23	11:Q:708:GLU:HB2	1.93	0.48
11:O:781:SER:HG	11:Q:777:HIS:HA	1.75	0.48
3:S:716:PHE:CG	2:T:365:TRP:CZ3	2.98	0.48
2:t:356:GLN:HA	4:r:535:ASN:ND2	2.28	0.48
5:G:289:LYS:HE2	15:F:631:TYR:OH	2.13	0.48
6:L:857:GLU:HG2	6:L:861:MET:HE2	1.95	0.48
7:E:13:ASP:HB2	9:C:41:LYS:CG	2.42	0.48
7:e:314:LYS:NZ	9:c:3:GLU:HB3	2.27	0.48
9:c:321:GLU:HG3	4:R:130:LYS:C	2.38	0.48
9:c:641:LEU:HD22	13:a:1121:LEU:HD11	1.87	0.48
11:O:539:THR:CG2	11:Q:704:GLU:HG2	2.33	0.48
13:a:933:VAL:HG13	13:a:943:ILE:HD11	1.95	0.48
15:f:828:LEU:HD23	15:f:867:VAL:HG22	1.94	0.48
4:R:526:ARG:NH1	2:T:369:LEU:CD2	2.66	0.48
2:t:356:GLN:C	3:s:1736:LEU:CD1	2.78	0.48
4:r:145:ILE:CD1	4:R:506:PRO:CA	2.91	0.48
6:L:1245:ALA:HB1	13:A:1274:THR:HG1	1.75	0.48
6:L:1249:GLN:HB2	13:A:1277:SER:N	2.28	0.48
6:L:1639:GLN:CB	9:C:246:THR:CG2	2.75	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:9:ALA:HB2	9:C:36:GLU:O	2.13	0.48
8:D:129:ALA:HB1	9:C:480:ARG:HH21	0.71	0.48
9:c:624:SER:CB	11:M:14:ASN:HB3	2.41	0.48
11:O:476:PRO:CD	11:Q:767:HIS:CE1	2.96	0.48
4:r:145:ILE:HG13	4:R:506:PRO:CA	2.44	0.48
6:L:1482:ARG:HH22	9:C:87:GLU:CB	2.27	0.48
7:E:6:SER:CB	9:C:15:GLY:C	2.82	0.48
7:E:309:TYR:O	9:C:391:TYR:N	2.41	0.48
7:e:7:ILE:N	9:c:53:PHE:C	2.64	0.48
7:e:231:LEU:CA	9:c:431:GLU:HG2	2.43	0.48
7:e:322:ASP:N	9:c:16:LEU:CB	2.73	0.48
11:O:785:LEU:HG	11:Q:655:THR:OG1	2.13	0.48
13:A:36:MET:O	13:A:40:VAL:HG23	2.14	0.48
4:R:656:ASN:HB2	2:T:465:ILE:HD11	1.91	0.48
6:L:777:PRO:HD2	7:E:257:LEU:O	2.14	0.48
7:E:16:HIS:N	9:C:39:TYR:HD2	1.99	0.48
7:e:2:PHE:CA	9:c:11:THR:HG21	2.44	0.48
7:e:6:SER:CA	9:c:54:MET:O	2.60	0.48
9:C:573:LEU:HD13	9:C:605:ARG:NH1	2.28	0.48
13:A:1296:ALA:HB2	13:A:1301:TYR:CE2	2.48	0.48
13:a:635:LEU:HD13	13:a:896:PRO:HG2	1.94	0.48
4:R:602:LEU:CG	3:S:757:ILE:HG21	2.43	0.48
4:r:51:LEU:HD22	4:r:123:ILE:HD13	1.96	0.48
5:g:14:ASP:HA	13:a:1381:TYR:C	2.39	0.48
5:G:20:GLN:NE2	15:F:252:ARG:N	2.61	0.48
6:L:1040:GLY:HA3	6:L:1048:VAL:HG23	1.96	0.48
7:e:86:TRP:CZ2	7:e:105:LYS:CE	2.96	0.48
7:e:285:SER:CB	9:c:27:TRP:HD1	2.27	0.48
7:e:322:ASP:CG	9:c:13:ILE:O	2.11	0.48
9:c:532:ARG:HH11	9:c:568:PRO:CG	2.11	0.48
12:b:89:LEU:HD11	13:a:496:GLU:OE1	2.13	0.48
13:a:494:TRP:CG	13:a:816:ILE:HD11	2.48	0.48
14:I:508:HIS:HB3	14:I:531:LEU:HD11	1.94	0.48
3:S:831:VAL:HG11	2:T:479:VAL:HG12	1.95	0.48
2:t:363:LYS:CD	3:s:1740:ARG:NH2	2.77	0.48
4:r:95:LEU:O	4:R:519:HIS:ND1	2.39	0.48
9:c:635:LEU:HD21	9:c:639:ARG:NH2	2.27	0.48
9:c:638:ALA:O	13:a:1125:ASN:OD1	2.30	0.48
10:U:1359:VAL:CG2	13:a:1028:CYS:N	2.72	0.48
11:O:31:LEU:HD11	15:f:589:PRO:CA	2.44	0.48
11:O:455:LYS:CA	11:Q:698:LEU:HD23	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:779:THR:CA	11:Q:660:ASP:HB3	2.44	0.48
11:O:784:LYS:CE	11:Q:647:ASP:CA	2.91	0.48
13:a:1170:ILE:HG21	15:f:906:GLU:OE2	2.13	0.48
15:F:496:HIS:CE1	15:F:497:TYR:CE2	3.02	0.48
4:R:543:PRO:HG3	3:S:706:LEU:HG	1.95	0.48
4:R:627:LEU:HD22	3:S:782:ILE:HG12	1.96	0.48
3:S:720:LEU:CD1	2:T:365:TRP:CD1	2.97	0.48
6:L:468:GLN:HG3	13:A:1195:ASN:CG	2.38	0.48
6:L:1520:TYR:CD1	9:C:90:SER:OG	2.67	0.48
6:l:1247:ILE:H	13:a:1276:GLU:CA	2.21	0.48
7:E:312:ASN:CB	9:C:1:MET:CB	2.80	0.48
7:e:36:VAL:HG23	7:e:55:THR:HG21	1.95	0.48
8:D:16:ARG:NH2	9:C:446:LYS:HZ1	2.10	0.48
11:O:454:ARG:C	11:Q:695:ASN:HB2	2.37	0.48
11:O:463:ARG:NE	11:Q:707:GLN:OE1	2.47	0.48
11:O:470:ARG:CD	11:Q:667:ILE:CB	2.92	0.48
13:A:494:TRP:CG	13:A:816:ILE:HD11	2.48	0.48
4:R:635:HIS:N	2:T:453:GLU:HG3	2.27	0.48
3:S:786:GLN:HE22	2:T:435:LEU:HD12	1.60	0.48
5:G:275:ILE:CB	15:F:255:TRP:CZ2	2.93	0.48
7:E:47:TRP:HB3	9:C:54:MET:HE2	1.72	0.48
9:c:205:GLY:CA	9:c:207:MET:HE2	2.40	0.48
11:O:788:SER:CB	11:Q:597:TYR:HD1	2.26	0.48
4:R:543:PRO:HB3	3:S:705:ILE:HB	1.49	0.48
4:R:620:GLN:OE1	2:T:425:GLN:NE2	2.47	0.48
4:R:635:HIS:HE2	2:T:454:GLU:N	2.06	0.48
1:H:726:ALA:HA	11:Q:14:ASN:CG	2.39	0.47
2:t:357:LEU:CD2	3:s:1732:SER:CA	2.80	0.47
4:r:119:MET:C	4:R:511:ASP:HB2	2.39	0.47
4:r:120:VAL:N	4:R:510:ALA:N	2.43	0.47
5:g:24:TYR:HE2	15:f:735:ARG:CD	1.94	0.47
5:G:287:LEU:CD2	15:F:268:LEU:HD11	2.44	0.47
6:L:767:TYR:CZ	6:L:848:MET:HE2	2.49	0.47
6:L:792:ARG:CZ	13:A:1398:GLN:HB2	2.30	0.47
7:e:148:MET:SD	9:c:499:LEU:CD2	2.98	0.47
9:c:299:MET:HE1	9:c:305:PHE:CD2	2.44	0.47
9:c:573:LEU:CG	9:c:605:ARG:NH1	2.25	0.47
12:B:221:THR:HG23	13:A:918:GLU:OE2	2.04	0.47
4:R:482:LEU:CD2	2:T:370:GLU:OE2	2.47	0.47
1:H:321:ARG:CD	15:F:461:GLY:C	2.78	0.47
4:r:119:MET:CG	4:R:509:LEU:C	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:655:GLU:HB3	13:A:1246:ILE:CG2	2.44	0.47
6:l:1249:GLN:HG3	13:a:1275:LYS:HA	1.95	0.47
7:e:296:SER:HB3	9:c:25:PHE:CE1	2.49	0.47
8:d:124:GLY:HA3	9:c:479:ARG:NH1	2.27	0.47
11:O:460:ILE:CB	11:Q:700:ALA:CA	2.48	0.47
11:O:605:TRP:CG	11:Q:791:LYS:HG3	2.49	0.47
13:a:36:MET:O	13:a:40:VAL:HG23	2.14	0.47
3:S:716:PHE:CE1	2:T:365:TRP:CG	2.77	0.47
1:h:493:LYS:HE2	1:h:497:GLU:OE1	2.15	0.47
5:g:19:ALA:CB	15:f:304:VAL:O	2.56	0.47
5:g:291:SER:O	15:f:653:ARG:CZ	2.55	0.47
5:G:24:TYR:HE1	15:F:696:ASN:O	1.97	0.47
6:l:1040:GLY:HA3	6:l:1048:VAL:HG23	1.96	0.47
7:E:32:SER:HB3	9:C:41:LYS:CG	2.42	0.47
9:c:250:THR:O	4:R:460:ASP:HA	2.15	0.47
9:c:328:SER:OG	9:c:332:MET:HE3	2.14	0.47
4:R:676:GLN:CG	3:S:839:TRP:CE3	2.97	0.47
1:h:722:ALA:O	11:P:331:LYS:HG2	2.14	0.47
5:g:257:LEU:HD21	5:g:288:TRP:CD2	2.49	0.47
6:l:619:ALA:HB3	13:a:1310:LEU:C	2.28	0.47
6:l:767:TYR:CZ	6:l:848:MET:HE2	2.49	0.47
7:E:231:LEU:CD2	9:C:435:LEU:CB	2.93	0.47
7:E:307:ALA:HB1	9:C:392:PHE:HZ	1.78	0.47
7:e:27:MET:CE	9:c:54:MET:SD	3.01	0.47
7:e:148:MET:HE2	9:c:499:LEU:HD21	1.95	0.47
7:e:288:ILE:HG12	9:c:435:LEU:CD2	2.41	0.47
10:U:1386:ARG:CB	13:a:1152:SER:H	2.18	0.47
11:M:368:PHE:CZ	11:M:372:ILE:HD11	2.50	0.47
13:a:53:GLU:OE2	13:a:471:THR:HG22	2.14	0.47
15:f:496:HIS:CE1	15:f:497:TYR:CE2	3.02	0.47
15:f:805:TYR:CZ	15:f:809:ILE:HD11	2.50	0.47
6:L:820:MET:HE3	6:L:846:CYS:HB3	1.97	0.47
6:l:617:GLU:CB	13:a:1314:VAL:HG22	2.38	0.47
12:B:287:HIS:CD2	13:A:1008:HIS:CD2	3.01	0.47
4:R:51:LEU:HD22	4:R:123:ILE:HD13	1.96	0.47
1:H:719:GLU:HG2	11:Q:10:ARG:HB2	0.51	0.47
2:t:368:LEU:CD2	4:r:530:ASN:ND2	2.58	0.47
2:t:368:LEU:HD22	4:r:530:ASN:ND2	2.17	0.47
5:G:267:VAL:O	15:F:253:VAL:HB	2.13	0.47
7:E:20:PHE:CA	9:C:26:SER:OG	2.61	0.47
7:e:6:SER:CB	9:c:55:TYR:HH	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:d:11:SER:HA	9:c:69:ARG:HE	1.73	0.47
9:c:371:PHE:CZ	9:c:375:LEU:HD22	2.50	0.47
9:c:638:ALA:O	13:a:1125:ASN:CB	2.63	0.47
10:U:1386:ARG:HG2	13:a:1152:SER:CA	2.44	0.47
11:O:469:SER:HB2	11:Q:666:ALA:CA	2.43	0.47
13:A:933:VAL:HG13	13:A:943:ILE:HD11	1.95	0.47
15:F:378:LEU:HD22	15:F:420:THR:HG22	1.97	0.47
1:H:461:ILE:HG22	11:N:27:MET:HB2	1.81	0.47
1:h:226:LEU:CG	11:P:549:LYS:HB3	2.44	0.47
4:r:118:VAL:HB	4:R:511:ASP:HA	1.29	0.47
5:G:14:ASP:HA	13:A:1381:TYR:C	2.39	0.47
5:G:19:ALA:CB	15:F:304:VAL:O	2.60	0.47
6:L:777:PRO:CA	7:E:258:SER:CA	2.75	0.47
6:L:788:GLN:CD	13:A:1398:GLN:C	2.81	0.47
6:l:466:PRO:CD	13:a:1213:LEU:HD21	2.40	0.47
7:E:12:LYS:CD	9:C:46:GLU:C	2.88	0.47
8:D:11:SER:CB	9:C:66:PRO:C	2.88	0.47
11:O:31:LEU:HD13	15:f:591:ALA:HB3	1.96	0.47
11:O:463:ARG:NE	11:Q:752:LEU:CA	2.78	0.47
11:O:464:VAL:HG23	11:Q:708:GLU:N	2.29	0.47
11:O:551:ARG:NE	11:Q:766:ASN:HD22	2.08	0.47
11:O:652:ALA:O	11:Q:791:LYS:O	2.33	0.47
11:O:781:SER:CB	11:Q:777:HIS:HA	2.45	0.47
11:O:788:SER:OG	11:Q:581:LEU:HD22	2.14	0.47
4:R:588:GLN:NE2	2:T:390:LEU:HD21	2.11	0.47
3:S:751:HIS:ND1	2:T:400:LEU:CD1	2.77	0.47
14:i:455:ILE:HD12	14:i:461:LEU:HD12	1.97	0.47
6:L:9:SER:HA	6:L:78:LYS:HE2	1.97	0.47
6:L:1526:ASP:CG	9:C:92:LYS:HG2	2.39	0.47
7:E:285:SER:HG	9:C:27:TRP:HD1	1.63	0.47
7:E:314:LYS:HE3	9:C:1:MET:HB3	1.97	0.47
7:e:7:ILE:CD1	9:c:54:MET:HE3	2.45	0.47
7:e:148:MET:CE	9:c:499:LEU:HD21	2.45	0.47
9:c:596:TYR:CD2	13:a:1117:VAL:HG12	2.50	0.47
9:c:611:GLU:CB	13:a:1293:LYS:O	2.60	0.47
10:U:1363:SER:CB	13:a:997:THR:CB	2.88	0.47
11:P:368:PHE:CZ	11:P:372:ILE:HD11	2.50	0.47
11:O:792:SER:N	11:Q:454:ARG:HH12	2.05	0.47
13:a:173:TYR:CZ	13:a:183:ILE:HG23	2.50	0.47
13:a:1090:ARG:NH2	13:a:1136:TRP:CZ3	2.82	0.47
15:F:805:TYR:CZ	15:F:809:ILE:HD11	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:751:HIS:CB	2:T:400:LEU:HD11	2.45	0.47
3:S:786:GLN:HE22	2:T:435:LEU:HD11	1.54	0.47
4:r:94:PRO:HA	4:R:512:VAL:HG21	1.97	0.47
5:g:170:GLN:HB2	15:f:685:HIS:HE2	1.79	0.47
5:G:257:LEU:HD21	5:G:288:TRP:CD2	2.49	0.47
6:L:1703:LEU:CD2	9:C:251:GLU:OE1	2.62	0.47
6:l:9:SER:HA	6:l:78:LYS:HE2	1.97	0.47
9:c:21:ARG:NH1	9:c:50:ARG:O	2.45	0.47
9:c:256:TRP:CZ2	9:c:312:PHE:O	2.66	0.47
9:c:320:THR:CB	4:R:128:GLY:C	2.88	0.47
11:O:8:ILE:CG2	15:f:587:ASP:H	2.23	0.47
11:O:463:ARG:NE	11:Q:752:LEU:HA	2.25	0.47
13:A:53:GLU:OE2	13:A:471:THR:HG22	2.14	0.47
13:a:104:HIS:CE1	13:a:115:VAL:HB	2.50	0.47
13:a:908:MET:HE2	13:a:938:PHE:CZ	2.50	0.47
15:f:378:LEU:HD22	15:f:420:THR:HG22	1.97	0.47
4:R:444:LEU:HG	3:S:709:ILE:HD11	1.97	0.47
4:R:636:THR:HG22	2:T:450:HIS:HD1	1.66	0.47
3:S:835:LEU:HD21	2:T:483:LEU:HD11	1.95	0.47
5:g:271:ILE:HG12	15:f:697:ARG:HH21	1.66	0.47
6:L:675:ALA:HB2	13:A:1396:SER:H	1.27	0.47
6:L:1249:GLN:HB3	13:A:1275:LYS:O	2.11	0.47
6:L:1523:VAL:CG2	9:C:93:SER:N	2.75	0.47
9:c:621:GLN:HE21	11:M:15:ALA:CB	2.27	0.47
11:O:465:PRO:CB	11:Q:689:LYS:CD	2.89	0.47
11:O:646:GLU:O	11:Q:787:ILE:C	2.58	0.47
11:M:3:ARG:HH11	15:F:435:GLU:HB3	1.14	0.47
13:A:220:TRP:CE3	13:A:290:VAL:HG21	2.50	0.47
3:S:817:ILE:HG22	2:T:469:LEU:HD11	1.96	0.47
1:H:493:LYS:HE2	1:H:497:GLU:OE1	2.15	0.46
5:g:24:TYR:HE1	15:f:696:ASN:O	1.97	0.46
6:L:617:GLU:CA	13:A:1312:HIS:NE2	2.77	0.46
7:e:14:LEU:HD22	9:c:38:LEU:HB2	1.96	0.46
7:e:321:GLY:O	9:c:16:LEU:O	2.32	0.46
11:O:455:LYS:CB	11:Q:695:ASN:CB	2.91	0.46
11:O:461:PHE:C	11:Q:707:GLN:H	2.23	0.46
11:O:782:PRO:HG2	11:Q:777:HIS:CE1	2.49	0.46
11:N:368:PHE:CZ	11:N:372:ILE:HD11	2.50	0.46
13:A:908:MET:HE2	13:A:938:PHE:CZ	2.50	0.46
4:R:666:ILE:CD1	2:T:476:LEU:CD1	2.91	0.46
3:S:734:VAL:HG21	2:T:383:VAL:CG1	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:723:MET:HE1	11:P:333:VAL:CG2	2.35	0.46
4:r:146:PRO:CD	4:R:505:LEU:HD23	2.46	0.46
7:e:314:LYS:NZ	9:c:3:GLU:HB2	2.30	0.46
8:D:146:GLU:OE2	9:C:480:ARG:NH1	2.46	0.46
9:c:161:LEU:HD22	9:c:315:PRO:HA	1.98	0.46
9:c:323:HIS:CB	4:R:129:LYS:CD	2.85	0.46
9:c:638:ALA:HB1	13:a:1128:ARG:CD	2.37	0.46
11:M:35:LEU:CD2	15:F:436:ARG:HE	2.24	0.46
3:S:716:PHE:CB	2:T:365:TRP:CH2	2.98	0.46
6:L:613:LEU:CG	13:A:1247:ARG:CG	2.78	0.46
6:L:1760:MET:HE2	6:L:1899:CYS:SG	2.55	0.46
7:E:47:TRP:CE2	9:C:54:MET:HG2	2.48	0.46
9:c:653:GLU:HG2	13:a:1074:ASN:CB	2.45	0.46
11:O:464:VAL:CA	11:Q:709:CYS:N	2.39	0.46
11:O:482:LEU:CD2	11:Q:794:ARG:HH12	1.99	0.46
11:O:592:TYR:O	11:Q:795:PHE:HA	2.15	0.46
13:a:220:TRP:CE3	13:a:290:VAL:HG21	2.50	0.46
4:R:662:LEU:CD2	3:S:825:LYS:N	2.70	0.46
3:S:831:VAL:HG21	2:T:480:ILE:CG1	2.21	0.46
1:H:313:GLU:CG	11:M:1:MET:CA	2.81	0.46
1:H:471:ARG:HD2	15:f:896:ARG:CZ	2.37	0.46
1:h:289:TRP:CZ3	15:f:464:ARG:NH2	2.84	0.46
4:r:120:VAL:HG11	4:R:507:HIS:HB3	1.08	0.46
6:L:1520:TYR:CE1	9:C:90:SER:OG	2.66	0.46
6:l:466:PRO:HB2	13:a:1198:THR:CG2	2.44	0.46
6:l:1760:MET:HE2	6:l:1899:CYS:SG	2.56	0.46
7:E:315:CYS:HG	9:C:8:PRO:HB3	1.80	0.46
9:c:390:LEU:CD1	9:c:394:ALA:O	2.63	0.46
9:c:596:TYR:CE1	13:a:1121:LEU:HD12	2.45	0.46
10:U:1076:ASP:HA	10:U:1079:TRP:CD1	2.51	0.46
13:A:104:HIS:CE1	13:A:115:VAL:HB	2.50	0.46
13:A:173:TYR:CZ	13:A:183:ILE:HG23	2.50	0.46
13:A:1090:ARG:NH2	13:A:1136:TRP:CZ3	2.83	0.46
4:R:493:LEU:HG	2:T:379:GLN:O	2.14	0.46
1:H:712:ALA:HB1	11:Q:35:LEU:HD22	1.90	0.46
5:g:292:VAL:HG11	15:f:616:CYS:C	2.40	0.46
9:C:287:GLY:O	9:C:313:LYS:HE3	2.16	0.46
9:c:166:GLU:OE2	9:c:169:ARG:NH2	2.48	0.46
9:c:327:GLN:OE1	9:c:348:LEU:HD21	2.15	0.46
9:c:646:VAL:CG2	13:a:1080:TYR:HE1	2.25	0.46
13:A:1239:GLU:HG3	13:A:1304:CYS:SG	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:F:833:MET:HE1	15:F:893:HIS:NE2	2.30	0.46
4:R:541:SER:CA	3:S:703:ASP:OD2	2.61	0.46
4:R:635:HIS:HB2	2:T:453:GLU:CA	2.23	0.46
14:i:306:LEU:HD22	14:i:363:VAL:HG11	1.97	0.46
4:r:175:LEU:HD21	4:R:511:ASP:CG	2.41	0.46
5:g:287:LEU:CG	15:f:268:LEU:HD11	2.42	0.46
5:g:289:LYS:HE2	15:f:631:TYR:OH	2.15	0.46
6:L:1699:SER:OG	9:C:254:LEU:CB	2.60	0.46
11:O:540:LYS:NZ	11:Q:759:HIS:O	2.28	0.46
4:R:493:LEU:CD1	2:T:383:VAL:HG23	2.39	0.46
4:R:532:LEU:HB3	2:T:359:GLU:HA	1.52	0.46
2:t:363:LYS:HD2	3:s:1740:ARG:CZ	2.43	0.46
2:t:375:PHE:HE2	3:s:1753:LEU:HD23	1.80	0.46
5:G:292:VAL:HG11	15:F:616:CYS:C	2.41	0.46
6:l:851:ASN:HD21	6:l:915:LYS:HE2	1.80	0.46
7:E:15:ILE:HG21	9:C:35:TYR:CE2	2.51	0.46
7:e:8:ALA:CA	9:c:53:PHE:HA	2.29	0.46
7:e:15:ILE:HD12	9:c:51:CYS:CB	2.45	0.46
11:O:787:ILE:HG13	11:Q:582:HIS:HB3	1.92	0.46
12:b:89:LEU:HD12	13:a:496:GLU:CG	2.46	0.46
12:b:287:HIS:CD2	13:a:1008:HIS:CD2	3.01	0.46
13:a:480:GLN:HE22	13:a:489:VAL:HG22	1.81	0.46
4:R:488:PRO:O	2:T:377:LEU:HD11	2.13	0.46
3:S:768:PHE:HD2	2:T:414:LEU:CD1	2.17	0.46
1:H:465:GLU:HG3	11:N:23:ARG:NH2	2.17	0.46
7:E:304:LEU:HD21	9:C:27:TRP:HH2	1.81	0.46
9:c:162:ILE:CD1	9:c:241:LEU:O	2.63	0.46
9:c:320:THR:HG23	4:R:131:SER:HA	1.20	0.46
9:c:596:TYR:CG	13:a:1121:LEU:HD13	2.41	0.46
11:O:609:LEU:HD21	11:Q:788:SER:HB2	1.96	0.46
11:Q:368:PHE:CZ	11:Q:372:ILE:HD11	2.50	0.46
13:A:480:GLN:HE22	13:A:489:VAL:HG22	1.81	0.46
13:A:1167:SER:HG	15:F:859:ARG:NH2	2.07	0.46
13:a:1248:LEU:HD21	13:a:1259:ALA:CB	2.39	0.46
4:R:447:ARG:CZ	3:S:706:LEU:HG	2.46	0.46
4:R:630:ILE:CG2	2:T:436:GLU:CG	2.65	0.46
5:g:284:LYS:C	15:f:266:ASP:H	2.24	0.46
5:g:292:VAL:HG11	15:f:616:CYS:CA	2.44	0.46
6:L:468:GLN:HE21	13:A:1196:PRO:CD	2.29	0.46
6:L:851:ASN:HD21	6:L:915:LYS:HE2	1.80	0.46
6:l:361:ILE:HG22	6:l:433:ARG:NH2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:13:ASP:CB	9:C:41:LYS:HG2	2.45	0.46
7:E:309:TYR:HD2	9:C:390:LEU:HD23	1.78	0.46
7:E:314:LYS:HG3	9:C:3:GLU:HA	1.77	0.46
7:e:282:TRP:CE2	9:c:39:TYR:HB3	2.49	0.46
8:D:11:SER:C	9:C:69:ARG:NH1	2.48	0.46
9:c:165:LEU:HD11	9:c:311:LEU:HD13	1.98	0.46
10:U:1051:GLU:HA	10:U:1084:LYS:HZ3	1.81	0.46
11:O:605:TRP:H	11:Q:791:LYS:CD	2.27	0.46
13:A:535:TYR:CE1	13:A:539:LEU:HD11	2.51	0.46
13:A:1173:LEU:C	15:F:902:ASP:OD1	2.59	0.46
4:R:469:CYS:CB	2:T:359:GLU:OE1	2.64	0.46
4:R:482:LEU:HD22	2:T:370:GLU:OE1	2.04	0.46
4:R:487:PRO:CB	2:T:373:GLU:OE2	2.63	0.46
5:g:270:SER:N	15:f:255:TRP:H	2.13	0.46
6:L:361:ILE:HG22	6:L:433:ARG:NH2	2.31	0.46
6:L:1701:MET:H	9:C:254:LEU:HD13	1.67	0.46
7:e:2:PHE:C	9:c:11:THR:HG21	2.39	0.46
9:C:174:GLU:CD	9:C:300:THR:HG21	2.41	0.46
11:O:1:MET:CB	15:f:567:GLU:CA	2.83	0.46
12:B:89:LEU:HD11	13:A:496:GLU:OE1	2.13	0.46
12:B:89:LEU:HD12	13:A:496:GLU:CG	2.46	0.46
12:B:234:ILE:HD12	12:B:259:TRP:CZ2	2.51	0.46
12:b:88:ALA:CB	13:a:499:LYS:HZ1	2.28	0.46
4:R:613:PHE:CE2	3:S:768:PHE:CG	3.03	0.46
4:R:676:GLN:CD	3:S:839:TRP:HE3	2.16	0.46
3:S:744:ARG:NH2	2:T:389:THR:HG22	2.11	0.46
5:G:286:THR:CA	15:F:268:LEU:HD21	2.42	0.45
6:L:614:ALA:HB2	13:A:1247:ARG:HH22	1.79	0.45
6:L:1525:VAL:CG1	9:C:92:LYS:NZ	2.78	0.45
6:L:1695:LEU:HB2	9:C:255:LYS:CE	2.46	0.45
6:l:820:MET:HE3	6:l:846:CYS:HB3	1.97	0.45
9:c:301:THR:HB	9:c:303:TYR:CE1	2.52	0.45
9:c:642:ALA:N	13:a:1125:ASN:HB3	2.31	0.45
11:O:455:LYS:CA	11:Q:695:ASN:O	2.64	0.45
11:O:462:PRO:O	11:Q:710:LEU:CD1	2.64	0.45
11:O:481:LEU:N	11:Q:705:GLU:OE2	2.49	0.45
11:O:784:LYS:CE	11:Q:650:CYS:CB	2.94	0.45
11:M:28:LYS:HE2	15:F:431:LEU:HD23	1.98	0.45
12:B:89:LEU:HD12	13:A:496:GLU:OE1	2.14	0.45
4:R:616:ALA:HB2	2:T:422:LEU:HG	1.90	0.45
4:R:662:LEU:HB3	2:T:472:MET:HE1	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:782:ILE:HD13	2:T:432:LEU:CD2	2.46	0.45
4:r:144:THR:HG21	4:R:509:LEU:HD21	1.23	0.45
7:E:2:PHE:CG	9:C:11:THR:OG1	2.61	0.45
8:D:235:GLN:HE22	9:C:490:ARG:HH12	1.64	0.45
9:c:638:ALA:HB1	13:a:1128:ARG:HB2	1.98	0.45
11:O:368:PHE:CZ	11:O:372:ILE:HD11	2.50	0.45
11:O:458:LYS:CG	11:Q:693:ILE:CG2	2.92	0.45
11:O:463:ARG:C	11:Q:707:GLN:C	2.85	0.45
11:O:463:ARG:HD2	11:Q:707:GLN:OE1	2.14	0.45
11:O:652:ALA:HB2	11:Q:791:LYS:N	2.18	0.45
11:O:659:VAL:HG11	11:Q:795:PHE:O	2.08	0.45
12:B:196:THR:CG2	13:A:634:HIS:CG	2.95	0.45
12:b:287:HIS:CE1	13:a:1007:GLY:HA3	2.50	0.45
13:a:1239:GLU:HG3	13:a:1304:CYS:SG	2.56	0.45
4:R:663:GLY:N	2:T:472:MET:CE	2.78	0.45
14:i:387:PHE:HE2	14:i:392:MET:HE3	1.82	0.45
4:r:42:LYS:HD3	4:r:472:CYS:HB2	1.99	0.45
4:r:147:ILE:CG1	4:R:511:ASP:N	2.47	0.45
7:E:14:LEU:CD1	9:C:40:GLN:HG3	2.45	0.45
7:e:20:PHE:HE2	9:c:26:SER:HB3	1.81	0.45
9:C:538:LYS:CB	9:C:561:LEU:HD21	2.46	0.45
11:O:458:LYS:HB3	11:Q:694:GLU:HA	1.35	0.45
11:O:463:ARG:O	11:Q:709:CYS:CB	2.53	0.45
11:O:779:THR:HG21	11:Q:662:LYS:CG	2.47	0.45
12:B:221:THR:N	13:A:921:LYS:N	2.64	0.45
12:b:234:ILE:HD12	12:b:259:TRP:CZ2	2.51	0.45
13:A:290:VAL:HG22	13:A:299:LEU:HG	1.98	0.45
13:a:535:TYR:CE1	13:a:539:LEU:HD11	2.51	0.45
15:f:833:MET:HE1	15:f:893:HIS:NE2	2.31	0.45
4:R:492:LEU:O	2:T:381:THR:CG2	2.63	0.45
4:R:562:GLU:CD	4:R:566:LYS:HZ2	2.24	0.45
1:H:490:THR:O	15:f:791:HIS:HA	2.16	0.45
2:t:359:ASN:H	4:r:535:ASN:HA	1.73	0.45
7:E:309:TYR:HD2	9:C:390:LEU:CD2	2.20	0.45
8:d:11:SER:CB	9:c:66:PRO:C	2.89	0.45
9:c:377:ASP:OD1	9:c:397:ARG:NH2	2.49	0.45
9:c:620:LYS:HE3	11:M:5:LYS:O	2.17	0.45
10:U:1362:GLN:HB3	13:a:1024:ARG:NE	2.29	0.45
11:O:458:LYS:CE	11:Q:692:GLU:O	2.35	0.45
4:R:492:LEU:CB	2:T:384:ASN:HB2	2.46	0.45
4:R:669:VAL:HG22	3:S:832:ASN:OD1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:775:ASN:ND2	2:T:425:GLN:HE21	2.12	0.45
5:G:170:GLN:HB2	15:F:685:HIS:HE2	1.81	0.45
5:G:270:SER:N	15:F:255:TRP:H	2.13	0.45
6:L:781:VAL:HG23	7:E:258:SER:HB2	1.97	0.45
9:c:98:LEU:HD13	9:c:382:CYS:SG	2.56	0.45
9:c:625:ILE:H	11:M:17:ASN:CG	2.25	0.45
10:U:1307:ARG:HH12	13:a:1002:HIS:CD2	2.31	0.45
10:U:1386:ARG:CG	13:a:1152:SER:HA	2.46	0.45
13:a:1173:LEU:C	15:f:902:ASP:OD1	2.59	0.45
3:S:782:ILE:CG2	2:T:432:LEU:CD2	2.85	0.45
3:s:1739:ILE:HG13	4:r:552:LEU:CD1	1.97	0.45
5:g:168:VAL:HA	15:f:683:HIS:HA	1.98	0.45
5:g:269:TRP:O	15:f:254:GLY:C	2.57	0.45
5:G:284:LYS:C	15:F:266:ASP:H	2.24	0.45
6:L:748:ALA:HB1	8:d:321:LEU:CD1	2.46	0.45
6:L:945:MET:HE1	6:L:1002:PHE:O	2.17	0.45
6:L:1698:GLY:H	9:C:257:GLN:HB2	1.81	0.45
11:O:657:ASP:O	11:Q:592:TYR:CE1	2.69	0.45
12:b:90:LEU:HD13	13:a:503:LEU:HD11	1.97	0.45
3:S:720:LEU:HD11	2:T:365:TRP:CD1	2.52	0.45
1:H:368:THR:HG22	15:F:467:LEU:HD11	1.99	0.45
1:H:547:PHE:CZ	1:H:551:LEU:HD11	2.52	0.45
6:L:153:ARG:NH1	6:L:235:TRP:CZ3	2.84	0.45
6:L:1065:TYR:CE2	6:L:1115:LYS:HB3	2.52	0.45
6:l:945:MET:HE1	6:l:1002:PHE:O	2.17	0.45
10:U:1312:SER:CA	13:a:799:VAL:HG13	2.42	0.45
11:O:470:ARG:CZ	11:Q:671:GLU:HG3	2.43	0.45
11:O:538:ILE:HG21	11:Q:704:GLU:CA	2.41	0.45
12:B:174:HIS:NE2	13:A:921:LYS:NZ	2.57	0.45
12:B:196:THR:HG21	13:A:634:HIS:CD2	2.39	0.45
12:b:89:LEU:HD12	13:a:496:GLU:OE1	2.14	0.45
6:L:1244:MET:HE1	13:A:1281:ASP:O	2.13	0.45
6:l:25:LEU:CD2	6:l:29:ILE:HD12	2.47	0.45
6:l:786:GLU:O	7:e:258:SER:OG	2.35	0.45
7:E:294:ALA:HB3	9:C:27:TRP:HE1	1.82	0.45
7:e:285:SER:HG	9:c:27:TRP:CD1	2.34	0.45
9:c:264:GLU:OE2	4:R:1:MET:HG2	2.17	0.45
10:U:1385:GLU:HB3	13:a:1150:GLY:N	2.23	0.45
11:O:604:TYR:HB2	11:Q:791:LYS:HE2	1.56	0.45
11:Q:317:LEU:HD22	11:Q:376:PHE:CB	2.47	0.45
4:R:487:PRO:CB	2:T:373:GLU:CD	2.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:541:SER:HB3	3:S:699:THR:CG2	2.38	0.45
4:R:616:ALA:HA	2:T:422:LEU:HD23	1.87	0.45
4:R:627:LEU:CD2	2:T:432:LEU:HD22	2.44	0.45
4:R:662:LEU:CD1	3:S:825:LYS:CG	2.74	0.45
1:H:163:PHE:HB3	1:H:219:ARG:HH21	1.81	0.45
5:g:224:GLY:C	15:f:686:ILE:CD1	2.81	0.45
5:G:13:GLU:HG2	13:A:1383:ALA:HA	1.63	0.45
6:L:212:LYS:HE2	6:L:216:GLU:OE1	2.17	0.45
6:l:254:GLU:HG2	6:l:320:TRP:CD1	2.52	0.45
6:l:613:LEU:HD11	13:a:1251:GLY:HA2	1.57	0.45
6:l:1065:TYR:CE2	6:l:1115:LYS:HB3	2.52	0.45
7:e:282:TRP:CH2	9:c:40:GLN:HG3	2.52	0.45
9:c:110:ARG:CZ	9:c:141:GLU:OE2	2.58	0.45
9:c:423:ASP:OD2	9:c:458:ARG:NH2	2.38	0.45
11:O:317:LEU:HD22	11:O:376:PHE:CB	2.47	0.45
11:O:787:ILE:CG1	11:Q:582:HIS:CB	2.94	0.45
12:b:221:THR:HG23	13:a:918:GLU:OE2	2.04	0.45
4:R:594:TYR:HE1	2:T:401:HIS:CD2	2.18	0.45
4:R:606:ALA:HA	2:T:411:GLN:HE21	1.75	0.45
5:g:19:ALA:O	15:f:262:VAL:HG12	2.16	0.45
5:g:20:GLN:NE2	15:f:252:ARG:N	2.64	0.45
5:g:275:ILE:HG22	15:f:255:TRP:NE1	2.30	0.45
6:L:25:LEU:CD2	6:L:29:ILE:HD12	2.47	0.45
6:L:1519:GLY:O	9:C:92:LYS:HB2	2.17	0.45
6:l:21:TRP:CZ2	6:l:25:LEU:HD11	2.52	0.45
6:l:153:ARG:NH1	6:l:235:TRP:CZ3	2.84	0.45
9:c:207:MET:CE	9:c:238:MET:SD	3.02	0.45
9:c:573:LEU:HA	9:c:605:ARG:NH1	2.32	0.45
10:U:1182:ILE:HG23	10:U:1202:ILE:HG23	1.98	0.45
10:U:1307:ARG:NH1	13:a:1002:HIS:HE2	2.05	0.45
11:O:460:ILE:CB	11:Q:703:GLN:N	2.62	0.45
15:F:303:LYS:HE2	15:F:305:HIS:CE1	2.52	0.45
4:R:613:PHE:CZ	3:S:767:GLU:HB3	2.52	0.45
4:r:147:ILE:O	4:R:513:LYS:HA	2.17	0.44
6:L:1248:GLY:N	13:A:1277:SER:CB	2.66	0.44
7:E:285:SER:HB3	9:C:27:TRP:CD1	2.52	0.44
7:e:7:ILE:HD13	7:e:27:MET:HE1	1.98	0.44
7:e:20:PHE:CE2	9:c:33:LEU:HB3	2.52	0.44
9:C:562:MET:HE1	9:C:598:LEU:CD2	2.47	0.44
9:c:609:LYS:O	9:c:613:THR:OG1	2.35	0.44
10:U:1313:ARG:HD2	13:a:796:HIS:C	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:317:LEU:HD22	11:P:376:PHE:CB	2.47	0.44
12:b:286:ALA:HB2	13:a:1006:MET:CE	2.48	0.44
13:a:50:ILE:HD11	13:a:399:ASP:CG	2.43	0.44
4:R:592:LEU:HD12	3:S:743:LEU:HD11	1.68	0.44
3:S:751:HIS:ND1	2:T:400:LEU:CG	2.70	0.44
1:H:158:PRO:C	11:N:475:ILE:HD13	2.42	0.44
4:r:199:ILE:HG21	4:r:265:MET:HE1	1.99	0.44
4:r:438:ILE:HD12	4:r:467:MET:HE1	1.99	0.44
5:G:289:LYS:CE	15:F:631:TYR:OH	2.66	0.44
6:L:1519:GLY:HA3	9:C:93:SER:HB2	1.98	0.44
6:l:620:GLN:CD	13:a:1339:TYR:HE1	2.12	0.44
6:l:1201:PHE:CD1	13:a:1275:LYS:CE	3.01	0.44
7:e:7:ILE:CG1	9:c:54:MET:CB	2.94	0.44
7:e:15:ILE:CD1	9:c:51:CYS:HB3	2.47	0.44
8:d:9:PHE:CB	9:c:70:LYS:CD	2.84	0.44
8:d:365:GLU:HG2	9:c:69:ARG:NH1	2.25	0.44
9:c:616:ASP:O	11:M:6:ALA:CB	2.65	0.44
11:O:673:VAL:CA	11:Q:787:ILE:CD1	2.95	0.44
12:B:196:THR:HG21	13:A:634:HIS:HD2	1.74	0.44
13:a:1090:ARG:NH2	13:a:1136:TRP:CE3	2.86	0.44
15:f:303:LYS:HE2	15:f:305:HIS:CE1	2.52	0.44
4:R:42:LYS:HD3	4:R:472:CYS:HB2	1.99	0.44
5:g:279:SER:OG	15:f:265:GLY:HA3	2.16	0.44
7:e:320:LYS:O	9:c:13:ILE:HB	2.18	0.44
7:e:322:ASP:N	9:c:16:LEU:H	2.16	0.44
9:c:641:LEU:CD2	13:a:1125:ASN:CG	2.88	0.44
11:N:317:LEU:HD22	11:N:376:PHE:CB	2.47	0.44
11:M:317:LEU:HD22	11:M:376:PHE:CB	2.47	0.44
13:a:50:ILE:HD11	13:a:399:ASP:OD2	2.18	0.44
4:R:199:ILE:HG21	4:R:265:MET:HE1	1.99	0.44
4:R:543:PRO:HA	3:S:702:SER:N	2.32	0.44
3:S:751:HIS:ND1	2:T:400:LEU:HD11	2.32	0.44
3:S:757:ILE:HG22	2:T:407:VAL:HG11	1.99	0.44
6:L:1702:GLU:H	9:C:254:LEU:HD11	1.82	0.44
6:l:618:HIS:CD2	13:a:1312:HIS:HA	2.52	0.44
8:d:279:GLU:OE1	9:c:450:LYS:HG3	2.17	0.44
9:c:622:ASP:CB	11:M:13:GLU:CG	2.96	0.44
9:c:624:SER:HB3	11:M:14:ASN:OD1	2.16	0.44
11:O:469:SER:H	11:Q:667:ILE:HG13	1.83	0.44
12:b:287:HIS:CA	13:a:1008:HIS:CD2	3.00	0.44
13:A:1090:ARG:NH2	13:A:1136:TRP:CE3	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:a:619:TYR:CE1	13:a:657:ILE:HD11	2.53	0.44
15:F:334:VAL:HG22	15:F:343:PHE:CE1	2.53	0.44
3:S:786:GLN:HE21	2:T:435:LEU:HD12	1.54	0.44
1:h:163:PHE:HB3	1:h:219:ARG:HH21	1.81	0.44
2:t:382:VAL:HG11	3:s:1757:THR:CA	2.47	0.44
4:r:122:GLU:OE1	4:R:506:PRO:CA	2.61	0.44
4:r:144:THR:HG1	4:R:509:LEU:HD13	0.89	0.44
5:G:20:GLN:NE2	15:F:252:ARG:H	2.16	0.44
7:E:6:SER:O	9:C:53:PHE:CB	2.65	0.44
7:E:65:TRP:CE2	7:E:74:LEU:HD21	2.53	0.44
7:e:47:TRP:HE1	9:c:56:LEU:HD22	1.83	0.44
11:O:488:LEU:HG	11:Q:701:GLU:OE2	2.17	0.44
11:O:781:SER:CB	11:Q:777:HIS:CA	2.96	0.44
11:O:783:THR:HG21	11:Q:602:VAL:CG1	2.29	0.44
11:O:785:LEU:CB	11:Q:582:HIS:CG	2.92	0.44
13:A:914:LEU:HD22	13:A:964:LEU:HD21	1.99	0.44
4:R:477:ILE:CG2	2:T:363:ASN:HD22	2.24	0.44
4:R:555:ALA:CB	3:S:712:GLU:HG2	2.44	0.44
5:G:19:ALA:O	15:F:262:VAL:HG12	2.16	0.44
6:L:1703:LEU:CD2	9:C:251:GLU:HG2	2.33	0.44
7:e:27:MET:SD	9:c:33:LEU:HD21	2.57	0.44
9:C:517:LEU:HD22	9:C:540:ARG:CZ	2.47	0.44
9:c:507:GLU:OE1	9:c:515:THR:CG2	2.65	0.44
11:O:464:VAL:CG2	11:Q:708:GLU:N	2.81	0.44
11:O:791:LYS:CB	11:Q:597:TYR:CE2	3.01	0.44
13:A:173:TYR:CZ	13:A:183:ILE:CG2	3.00	0.44
13:A:1370:LEU:HD21	13:A:1418:LEU:HA	2.00	0.44
13:a:173:TYR:CZ	13:a:183:ILE:CG2	3.00	0.44
15:F:334:VAL:HG22	15:F:343:PHE:CZ	2.53	0.44
3:S:753:PHE:CZ	3:S:757:ILE:HD11	2.53	0.44
5:g:285:VAL:CG1	15:f:263:HIS:CE1	3.01	0.44
6:L:1526:ASP:N	9:C:92:LYS:HE3	2.32	0.44
6:l:1937:THR:HG22	6:l:1938:PHE:HD2	1.82	0.44
7:E:14:LEU:CD2	9:C:22:HIS:CD2	2.82	0.44
7:E:304:LEU:HD21	9:C:27:TRP:CH2	2.53	0.44
7:e:311:ASP:OD2	9:c:391:TYR:CG	2.71	0.44
8:D:11:SER:HB3	9:C:66:PRO:O	2.17	0.44
8:D:147:ASP:N	9:C:480:ARG:CZ	2.79	0.44
8:d:122:HIS:CB	9:c:478:ASN:O	2.66	0.44
9:C:305:PHE:CZ	9:C:309:ARG:HD2	2.53	0.44
9:c:573:LEU:CD2	9:c:605:ARG:NH2	2.54	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:463:ARG:CZ	11:Q:752:LEU:CA	2.92	0.44
12:B:223:ARG:HH22	13:A:976:GLN:NE2	2.08	0.44
12:B:286:ALA:HB2	13:A:1006:MET:CE	2.48	0.44
13:A:1138:VAL:HG13	13:A:1170:ILE:CG2	2.48	0.44
13:a:1090:ARG:HH22	15:f:905:LEU:HB3	1.82	0.44
13:a:1138:VAL:HG13	13:a:1170:ILE:CG2	2.48	0.44
4:R:492:LEU:O	2:T:381:THR:HG22	2.17	0.44
4:R:599:ARG:CZ	3:S:753:PHE:CE1	2.98	0.44
4:R:648:MET:HE1	3:S:811:GLU:CB	2.47	0.44
1:H:289:TRP:CH2	15:F:464:ARG:NH2	2.81	0.44
1:H:491:ASP:CB	15:f:793:GLN:CA	2.94	0.44
1:h:547:PHE:CZ	1:h:551:LEU:HD11	2.52	0.44
1:h:721:GLN:OE1	11:P:334:LYS:CG	2.65	0.44
5:g:36:SER:N	13:a:1378:TRP:HH2	2.02	0.44
5:g:224:GLY:CA	15:f:686:ILE:HD13	2.45	0.44
5:G:59:PRO:CA	13:A:1378:TRP:HE1	2.31	0.44
5:G:292:VAL:HG12	15:F:616:CYS:HA	1.78	0.44
6:L:254:GLU:HG2	6:L:320:TRP:CD1	2.52	0.44
6:L:1485:CYS:CB	9:C:90:SER:CB	2.93	0.44
7:E:7:ILE:HG21	9:C:54:MET:HB2	1.44	0.44
7:E:14:LEU:HD12	9:C:40:GLN:HG3	1.98	0.44
7:E:294:ALA:CB	9:C:27:TRP:CE2	3.01	0.44
9:c:256:TRP:HH2	9:c:260:ARG:HH11	1.65	0.44
10:U:1315:LYS:HE3	13:a:801:GLU:HG2	1.74	0.44
11:O:1:MET:HE3	15:f:566:GLY:HA3	1.87	0.44
11:O:35:LEU:CD1	15:f:586:GLY:C	2.85	0.44
11:O:652:ALA:HB3	11:Q:790:SER:N	2.33	0.44
13:A:619:TYR:CE1	13:A:657:ILE:HD11	2.53	0.44
13:A:773:MET:SD	13:A:893:LEU:HB3	2.58	0.44
4:R:602:LEU:CD1	2:T:408:LYS:HA	2.47	0.44
1:H:313:GLU:OE2	11:M:1:MET:SD	2.75	0.44
1:H:491:ASP:HB2	15:f:753:ASN:CG	2.42	0.44
1:h:222:ILE:HG22	11:P:548:ALA:H	1.83	0.44
3:s:1735:ILE:HD12	4:r:548:CYS:H	1.82	0.44
6:L:21:TRP:CZ2	6:L:25:LEU:HD11	2.52	0.44
7:e:65:TRP:CE2	7:e:74:LEU:HD21	2.53	0.44
9:c:323:HIS:HB3	4:R:129:LYS:HG2	2.00	0.44
11:O:594:GLN:HB2	11:Q:796:SER:N	2.32	0.44
13:A:50:ILE:HD11	13:A:399:ASP:CG	2.43	0.44
15:F:468:LEU:HD12	15:F:478:MET:CE	2.48	0.44
4:R:446:CYS:HB3	3:S:701:GLU:CD	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:659:LEU:CD1	2:T:469:LEU:CD1	2.59	0.44
5:G:271:ILE:HD13	15:F:697:ARG:NE	2.32	0.43
5:G:275:ILE:HG22	15:F:255:TRP:NE1	2.28	0.43
6:L:681:GLY:O	6:L:686:VAL:HG21	2.17	0.43
7:E:317:GLY:O	9:C:8:PRO:CB	2.61	0.43
8:D:122:HIS:ND1	9:C:478:ASN:O	2.44	0.43
9:C:527:MET:HG2	9:C:534:THR:HA	2.00	0.43
9:c:437:MET:HE3	9:c:451:ALA:CB	2.44	0.43
11:P:166:TYR:CZ	11:P:170:LYS:HE3	2.53	0.43
11:O:1:MET:N	15:f:566:GLY:CA	2.81	0.43
11:O:594:GLN:H	11:Q:796:SER:HB3	1.83	0.43
11:O:660:ASP:O	11:Q:592:TYR:N	2.51	0.43
11:O:785:LEU:C	11:Q:582:HIS:ND1	2.69	0.43
11:O:786:THR:CB	11:Q:578:ALA:CB	2.78	0.43
11:O:791:LYS:CA	11:Q:454:ARG:NH2	2.70	0.43
11:N:166:TYR:CZ	11:N:170:LYS:HE3	2.53	0.43
11:M:166:TYR:CZ	11:M:170:LYS:HE3	2.53	0.43
12:b:120:ILE:HG23	13:a:520:GLN:HE21	1.67	0.43
15:f:468:LEU:HD12	15:f:478:MET:CE	2.48	0.43
4:R:673:MET:HG2	3:S:835:LEU:CG	2.39	0.43
3:S:736:SER:O	3:S:737:GLU:C	2.61	0.43
1:H:315:ASP:CB	15:F:464:ARG:HB2	2.46	0.43
2:t:356:GLN:HA	4:r:535:ASN:OD1	2.18	0.43
5:G:167:LEU:HB2	15:F:686:ILE:H	1.52	0.43
5:G:168:VAL:HA	15:F:683:HIS:HA	2.00	0.43
6:L:1695:LEU:HA	9:C:252:PHE:HA	0.47	0.43
7:e:14:LEU:CD2	9:c:38:LEU:HB2	2.48	0.43
8:d:13:LYS:CG	9:c:413:SER:HB2	2.48	0.43
9:C:527:MET:CG	9:C:534:THR:HA	2.48	0.43
11:O:779:THR:HG21	11:Q:662:LYS:HG2	1.99	0.43
11:O:790:SER:HB2	11:Q:454:ARG:CG	2.32	0.43
11:M:11:TYR:HB2	15:F:435:GLU:CD	2.43	0.43
12:B:220:ASN:CA	13:A:921:LYS:H	2.29	0.43
13:A:165:ILE:HD12	13:A:246:HIS:CD2	2.53	0.43
13:A:627:LEU:CD2	13:A:641:VAL:HG13	2.48	0.43
13:a:165:ILE:HD12	13:a:246:HIS:CD2	2.53	0.43
13:a:290:VAL:HG22	13:a:299:LEU:HG	1.99	0.43
15:f:334:VAL:HG22	15:f:343:PHE:CE1	2.53	0.43
4:R:446:CYS:N	3:S:705:ILE:HD11	2.04	0.43
4:R:670:ASN:OD1	2:T:479:VAL:CG2	2.66	0.43
1:H:719:GLU:OE1	11:Q:8:ILE:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:t:364:TRP:CG	3:s:1743:ILE:CD1	2.84	0.43
6:L:1575:SER:HB2	9:C:92:LYS:NZ	2.33	0.43
6:l:173:PHE:CA	10:U:1127:THR:O	2.60	0.43
7:E:148:MET:SD	9:C:499:LEU:HD23	2.47	0.43
8:D:9:PHE:CE1	9:C:70:LYS:N	2.86	0.43
9:c:127:ALA:O	9:c:131:ILE:HG13	2.18	0.43
9:c:590:PHE:HB2	9:c:640:ASN:HD21	1.81	0.43
12:b:221:THR:N	13:a:921:LYS:N	2.64	0.43
13:A:627:LEU:HD23	13:A:641:VAL:HG13	2.00	0.43
13:a:20:ILE:HD12	13:a:397:LEU:HD13	2.00	0.43
13:a:627:LEU:CD2	13:a:641:VAL:HG13	2.48	0.43
5:g:15:MET:N	13:a:1381:TYR:HD1	2.15	0.43
5:g:59:PRO:CA	13:a:1378:TRP:HE1	2.31	0.43
5:G:292:VAL:HG11	15:F:616:CYS:CA	2.43	0.43
5:G:304:LYS:HG2	15:F:267:LYS:H	1.79	0.43
6:L:659:SER:HA	13:A:1313:GLY:C	2.43	0.43
6:l:1245:ALA:HB3	13:a:1276:GLU:HG3	2.01	0.43
8:D:279:GLU:HG3	9:C:453:ARG:NH1	2.24	0.43
8:d:39:ASP:C	9:c:412:HIS:NE2	2.58	0.43
9:c:380:ASP:OD2	9:c:397:ARG:HD2	2.18	0.43
9:c:538:LYS:HB2	9:c:561:LEU:HD21	2.01	0.43
9:c:642:ALA:HB2	13:a:1125:ASN:CB	2.34	0.43
11:O:166:TYR:CZ	11:O:170:LYS:HE3	2.53	0.43
11:O:792:SER:CA	11:Q:588:LEU:HD23	2.14	0.43
11:Q:166:TYR:CZ	11:Q:170:LYS:HE3	2.53	0.43
13:A:1066:ARG:HA	13:A:1102:ARG:NH1	2.34	0.43
13:A:1090:ARG:HH22	15:F:905:LEU:HB3	1.83	0.43
13:a:914:LEU:HD22	13:a:964:LEU:HD21	1.99	0.43
13:a:1066:ARG:HA	13:a:1102:ARG:NH1	2.34	0.43
4:R:438:ILE:HD12	4:R:467:MET:HE1	1.99	0.43
4:R:541:SER:HA	3:S:703:ASP:OD2	2.17	0.43
2:t:357:LEU:CD2	3:s:1732:SER:CB	2.96	0.43
5:g:271:ILE:HD13	15:f:697:ARG:NE	2.34	0.43
5:G:15:MET:H	13:A:1381:TYR:HD1	1.66	0.43
5:G:26:ILE:HG13	15:F:735:ARG:HH21	1.76	0.43
6:L:1526:ASP:CG	9:C:92:LYS:CE	2.83	0.43
6:L:1937:THR:HG22	6:L:1938:PHE:HD2	1.82	0.43
7:E:29:THR:CG2	9:C:35:TYR:CG	3.00	0.43
9:c:179:VAL:HG21	9:c:201:TYR:CE2	2.53	0.43
9:c:621:GLN:HB2	11:M:9:GLN:O	2.19	0.43
9:c:653:GLU:OE1	13:a:1078:LEU:CA	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:O:656:LEU:HD13	11:Q:793:ALA:HB1	1.78	0.43
11:M:585:GLY:HA3	11:M:598:MET:HE3	2.01	0.43
13:A:50:ILE:HD11	13:A:399:ASP:OD2	2.18	0.43
15:f:334:VAL:HG22	15:f:343:PHE:CZ	2.53	0.43
2:t:375:PHE:CD2	3:s:1754:LYS:HE3	2.52	0.43
6:L:20:ILE:HD11	6:L:46:TYR:CG	2.54	0.43
6:l:20:ILE:HD11	6:l:46:TYR:CG	2.54	0.43
6:l:470:THR:O	13:a:1261:GLU:CD	2.61	0.43
8:d:39:ASP:CG	9:c:412:HIS:O	2.56	0.43
11:O:462:PRO:CD	11:Q:707:GLN:CG	2.81	0.43
11:O:470:ARG:HG2	11:Q:668:ILE:HG13	1.90	0.43
11:O:592:TYR:CD2	11:Q:798:LYS:CA	3.01	0.43
11:O:597:TYR:N	11:Q:794:ARG:O	2.52	0.43
13:a:178:ILE:HG21	13:a:183:ILE:CD1	2.33	0.43
4:R:588:GLN:NE2	2:T:390:LEU:O	2.52	0.43
3:S:768:PHE:CD2	2:T:414:LEU:HG	2.54	0.43
4:r:119:MET:HA	4:R:509:LEU:O	2.18	0.43
5:G:15:MET:N	13:A:1381:TYR:HD1	2.15	0.43
6:L:881:GLN:NE2	6:L:926:ILE:HG23	2.33	0.43
6:L:1485:CYS:HB3	9:C:90:SER:HB2	1.98	0.43
6:l:681:GLY:O	6:l:686:VAL:HG21	2.17	0.43
7:e:7:ILE:CB	9:c:54:MET:O	2.67	0.43
8:D:9:PHE:HZ	9:C:70:LYS:N	2.12	0.43
9:c:299:MET:HA	9:c:304:HIS:ND1	2.33	0.43
9:c:653:GLU:HB3	13:a:1042:LEU:HD12	2.01	0.43
11:O:787:ILE:HG22	11:Q:584:THR:H	1.81	0.43
13:A:20:ILE:HD12	13:A:397:LEU:HD13	2.00	0.43
13:a:1090:ARG:NH1	15:f:909:ARG:CD	2.49	0.43
3:S:782:ILE:HG23	2:T:432:LEU:HD21	1.93	0.43
1:H:716:SER:OG	11:Q:3:ARG:HB3	2.18	0.43
5:g:277:ALA:CB	15:f:261:LEU:HD21	2.49	0.43
7:E:314:LYS:CE	9:C:3:GLU:C	2.92	0.43
9:C:600:ARG:NH1	13:A:1190:THR:HG21	2.32	0.43
9:c:45:SER:C	9:c:47:THR:H	2.26	0.43
9:c:390:LEU:CG	9:c:394:ALA:O	2.66	0.43
9:c:434:LYS:HG2	9:c:460:MET:CE	2.20	0.43
11:O:31:LEU:HD13	15:f:591:ALA:H	1.83	0.43
11:O:595:LYS:O	11:Q:794:ARG:N	2.52	0.43
11:O:790:SER:C	11:Q:597:TYR:CZ	2.97	0.43
11:M:490:ALA:HB2	11:M:577:TRP:HE1	1.84	0.43
13:a:611:GLN:OE1	13:a:664:LYS:HE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:479:ARG:HH12	2:T:365:TRP:N	2.12	0.43
2:T:433:THR:HB	2:T:434:PRO:HD3	2.00	0.43
1:H:715:TYR:HB3	11:Q:11:TYR:HB2	1.06	0.43
1:h:316:PRO:CD	15:f:464:ARG:CD	2.97	0.43
6:L:1078:MET:HE1	6:L:1123:ILE:HD13	2.01	0.43
6:L:1702:GLU:N	9:C:254:LEU:HD11	2.33	0.43
6:l:1726:ARG:HH12	6:l:1824:ASN:ND2	2.17	0.43
7:E:5:ARG:HB3	9:C:55:TYR:CA	2.40	0.43
9:c:256:TRP:HB2	4:R:461:LEU:HD22	1.84	0.43
9:c:538:LYS:CB	9:c:561:LEU:HD21	2.48	0.43
11:O:776:LYS:HD3	11:Q:780:PRO:HA	1.59	0.43
13:a:627:LEU:HD23	13:a:641:VAL:HG13	2.00	0.43
13:a:773:MET:SD	13:a:893:LEU:HB3	2.58	0.43
1:H:118:ASP:OD2	11:M:727:TYR:CD2	2.70	0.43
1:h:721:GLN:CD	11:P:334:LYS:HG3	2.44	0.43
3:s:1729:THR:HB	4:r:542:SER:HB3	1.60	0.43
6:L:613:LEU:CD1	13:A:1247:ARG:HB3	2.48	0.43
6:l:212:LYS:HE2	6:l:216:GLU:OE1	2.17	0.43
6:l:881:GLN:NE2	6:l:926:ILE:HG23	2.33	0.43
7:E:47:TRP:HE1	9:C:56:LEU:HB2	1.84	0.43
7:e:124:LYS:NZ	9:c:438:GLU:OE2	2.51	0.43
8:D:122:HIS:CE1	9:C:480:ARG:HG2	2.33	0.43
9:c:245:GLY:C	9:c:247:GLN:H	2.27	0.43
11:P:585:GLY:HA3	11:P:598:MET:HE3	2.01	0.43
11:O:8:ILE:HG23	15:f:587:ASP:HA	1.18	0.43
11:O:482:LEU:HB3	11:Q:794:ARG:NH1	2.33	0.43
11:O:773:SER:CB	11:Q:782:PRO:HB2	2.48	0.43
11:O:775:ILE:CD1	11:Q:785:LEU:CG	2.70	0.43
11:Q:585:GLY:HA3	11:Q:598:MET:HE3	2.01	0.43
13:A:611:GLN:OE1	13:A:664:LYS:HE2	2.19	0.43
4:R:493:LEU:CD1	2:T:379:GLN:O	2.67	0.43
4:R:495:SER:N	2:T:385:ALA:CB	2.81	0.43
4:R:534:LEU:C	2:T:358:LEU:HD12	2.44	0.43
4:R:630:ILE:HG12	2:T:436:GLU:HB3	1.43	0.43
1:H:364:TRP:O	15:F:467:LEU:HD21	2.19	0.42
5:G:279:SER:OG	15:F:265:GLY:HA3	2.19	0.42
6:L:696:GLU:OE2	8:d:321:LEU:HD11	2.16	0.42
9:C:158:GLY:HA2	9:C:241:LEU:HD13	2.01	0.42
11:O:780:PRO:CG	11:Q:660:ASP:N	2.82	0.42
11:O:784:LYS:HB2	11:Q:649:ALA:HA	0.96	0.42
12:b:89:LEU:CD1	13:a:496:GLU:CD	2.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:a:1370:LEU:HD21	13:a:1418:LEU:HA	2.00	0.42
4:R:1:MET:HE2	2:T:374:LYS:HZ3	0.61	0.42
4:R:533:LEU:N	2:T:358:LEU:O	2.52	0.42
4:r:145:ILE:CB	4:R:506:PRO:O	2.67	0.42
6:L:178:MET:HB2	6:L:235:TRP:CH2	2.54	0.42
8:D:122:HIS:NE2	9:C:480:ARG:NE	2.54	0.42
9:c:591:SER:HB2	9:c:648:GLU:OE1	2.19	0.42
9:c:642:ALA:CA	13:a:1125:ASN:HB3	2.49	0.42
11:O:789:PRO:HA	11:Q:584:THR:C	2.00	0.42
4:R:602:LEU:HG	3:S:757:ILE:HG21	2.01	0.42
1:H:719:GLU:HA	11:Q:10:ARG:HD3	2.01	0.42
1:h:723:MET:CE	11:P:333:VAL:CA	2.92	0.42
3:s:1735:ILE:CD1	4:r:545:PRO:C	2.59	0.42
5:g:289:LYS:CE	15:f:631:TYR:OH	2.67	0.42
6:L:655:GLU:OE1	13:A:1247:ARG:C	2.55	0.42
6:L:1247:ILE:HB	13:A:1281:ASP:HB2	0.99	0.42
6:L:1785:LEU:HD22	6:L:1815:ILE:HD12	2.00	0.42
7:E:12:LYS:HD3	9:C:45:SER:O	2.19	0.42
8:d:260:GLU:N	9:c:453:ARG:HH22	1.91	0.42
9:c:161:LEU:HD21	9:c:311:LEU:HA	2.00	0.42
9:c:576:LEU:HD13	9:c:602:LEU:HD13	2.01	0.42
11:O:488:LEU:CD2	11:Q:701:GLU:OE2	2.67	0.42
11:O:490:ALA:HB2	11:O:577:TRP:HE1	1.84	0.42
11:N:585:GLY:HA3	11:N:598:MET:HE3	2.00	0.42
12:B:89:LEU:CD1	13:A:496:GLU:CD	2.92	0.42
2:T:364:LYS:HE2	2:T:368:GLU:OE1	2.19	0.42
1:h:721:GLN:OE1	11:P:334:LYS:HD2	2.19	0.42
2:t:360:LEU:CG	3:s:1736:LEU:O	2.62	0.42
6:l:178:MET:HB2	6:l:235:TRP:CH2	2.54	0.42
9:c:254:LEU:CD2	4:R:465:THR:OG1	2.53	0.42
9:c:653:GLU:HG3	13:a:1074:ASN:HB3	2.01	0.42
11:N:490:ALA:HB2	11:N:577:TRP:HE1	1.84	0.42
4:R:626:ARG:HH21	2:T:433:THR:CG2	1.98	0.42
4:R:666:ILE:HD11	2:T:476:LEU:CD1	2.39	0.42
14:i:476:MET:SD	14:i:593:ALA:CB	3.08	0.42
14:i:559:PRO:HG2	14:i:565:TRP:CD1	2.54	0.42
2:t:363:LYS:HE2	2:t:367:GLU:OE1	2.19	0.42
4:r:110:VAL:O	4:R:508:VAL:HA	2.20	0.42
5:g:267:VAL:C	15:f:253:VAL:CB	2.82	0.42
5:g:284:LYS:C	15:f:266:ASP:HB2	2.06	0.42
6:L:1245:ALA:N	13:A:1285:ARG:HH12	2.12	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:1697:ASP:C	9:C:254:LEU:CA	2.91	0.42
6:l:1078:MET:HE1	6:l:1123:ILE:HD13	2.01	0.42
7:E:294:ALA:HB3	9:C:27:TRP:NE1	2.35	0.42
9:c:301:THR:HG21	9:c:303:TYR:OH	2.20	0.42
9:c:449:LEU:CD2	9:c:490:ARG:HH12	2.32	0.42
9:c:496:PHE:CE1	9:c:500:ILE:HD11	2.54	0.42
10:U:1309:PRO:HD3	13:a:967:ASP:HA	1.53	0.42
11:O:454:ARG:NH2	11:Q:692:GLU:HA	2.22	0.42
11:O:464:VAL:N	11:Q:709:CYS:H	2.12	0.42
11:O:605:TRP:HD1	11:Q:791:LYS:CB	2.21	0.42
13:a:647:GLU:HG2	13:a:741:ARG:HH12	1.84	0.42
13:a:1167:SER:OG	15:f:859:ARG:NE	2.48	0.42
4:R:477:ILE:HG12	2:T:360:ASN:CG	2.45	0.42
4:R:532:LEU:HD11	2:T:360:ASN:N	2.23	0.42
4:R:627:LEU:HA	2:T:436:GLU:OE1	2.19	0.42
6:L:1694:GLY:O	9:C:252:PHE:CE2	2.61	0.42
7:E:5:ARG:CG	9:C:55:TYR:HA	2.50	0.42
9:c:289:GLU:HG3	9:c:313:LYS:HZ1	1.85	0.42
9:c:624:SER:CB	11:M:14:ASN:OD1	2.68	0.42
11:O:11:TYR:HD1	15:f:586:GLY:C	2.20	0.42
13:a:310:MET:HE1	13:a:382:TYR:CD2	2.55	0.42
13:a:1170:ILE:HG13	15:f:858:LYS:CE	2.48	0.42
14:I:559:PRO:HG2	14:I:565:TRP:CD1	2.54	0.42
4:R:501:SER:HB3	2:T:392:GLN:HE21	1.79	0.42
1:H:160:SER:OG	11:N:475:ILE:CD1	2.67	0.42
6:L:1726:ARG:HH12	6:L:1824:ASN:ND2	2.17	0.42
6:l:1785:LEU:HD22	6:l:1815:ILE:HD12	2.00	0.42
7:e:2:PHE:HB3	9:c:57:VAL:HG13	1.94	0.42
9:C:95:LYS:HE3	9:C:152:ILE:O	2.20	0.42
10:U:1211:PRO:HD2	12:b:57:THR:H	1.31	0.42
11:O:11:TYR:CD1	15:f:586:GLY:O	2.73	0.42
12:b:223:ARG:HH22	13:a:976:GLN:NE2	2.08	0.42
13:a:308:LEU:HD23	13:a:384:LEU:HD11	2.02	0.42
4:R:493:LEU:CG	2:T:379:GLN:O	2.68	0.42
14:i:285:ASN:HB2	14:i:287:TRP:CZ3	2.55	0.42
5:G:289:LYS:NZ	15:F:631:TYR:OH	2.52	0.42
6:L:153:ARG:NH2	6:L:235:TRP:CH2	2.87	0.42
6:L:1247:ILE:N	13:A:1281:ASP:OD2	2.51	0.42
7:E:86:TRP:CZ2	7:E:105:LYS:HE3	2.55	0.42
7:e:7:ILE:CB	9:c:54:MET:CB	2.55	0.42
9:C:645:ILE:HD11	13:A:1121:LEU:C	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:624:SER:CA	11:M:14:ASN:OD1	2.67	0.42
10:U:1313:ARG:CD	13:a:797:LEU:N	2.81	0.42
11:O:470:ARG:HG2	11:Q:668:ILE:H	0.66	0.42
11:M:91:PRO:CB	15:F:586:GLY:CA	2.64	0.42
12:B:287:HIS:CA	13:A:1008:HIS:CD2	3.00	0.42
13:a:479:ILE:HD11	13:a:501:VAL:HG23	2.01	0.42
4:R:479:ARG:NH1	2:T:362:ILE:C	2.76	0.42
3:S:751:HIS:CB	2:T:400:LEU:CD1	2.97	0.42
5:G:269:TRP:O	15:F:254:GLY:C	2.59	0.42
5:G:303:ASN:C	15:F:267:LYS:O	2.62	0.42
7:E:91:GLY:C	8:D:127:MET:CG	2.89	0.42
7:e:26:ARG:HH12	7:e:88:GLU:CD	2.28	0.42
9:c:207:MET:O	9:c:211:ARG:HG3	2.20	0.42
9:c:346:ILE:HD13	9:c:362:PHE:CD2	2.55	0.42
9:c:532:ARG:HH12	9:c:568:PRO:HB3	1.84	0.42
9:c:558:LEU:HD21	9:c:579:ALA:HB2	2.02	0.42
9:c:619:GLN:CD	11:M:7:GLU:N	2.67	0.42
11:O:36:TYR:CG	15:f:587:ASP:HB2	2.55	0.42
11:O:468:THR:O	11:Q:663:THR:C	2.53	0.42
11:M:11:TYR:HB3	15:F:435:GLU:CD	2.45	0.42
13:A:310:MET:HE1	13:A:382:TYR:CD2	2.55	0.42
13:A:1172:ILE:CD1	15:F:900:PRO:C	2.65	0.42
13:A:1239:GLU:CG	13:A:1304:CYS:SG	3.08	0.42
15:F:259:TRP:CZ3	15:F:311:LEU:HD13	2.55	0.42
4:R:659:LEU:HD11	3:S:821:ASN:HB2	2.00	0.42
14:i:1110:LEU:O	14:i:1119:LYS:HE2	2.20	0.42
1:h:321:ARG:CD	15:f:461:GLY:C	2.93	0.42
4:r:122:GLU:HB2	4:R:506:PRO:HG3	1.97	0.42
4:r:152:PHE:HB2	4:R:513:LYS:HB3	1.72	0.42
5:g:15:MET:H	13:a:1381:TYR:HD1	1.66	0.42
5:g:34:ASP:CB	13:a:1382:SER:OG	2.68	0.42
5:g:286:THR:HA	15:f:268:LEU:CD2	2.50	0.42
5:G:292:VAL:CB	15:F:616:CYS:O	2.68	0.42
6:L:468:GLN:HG2	13:A:1196:PRO:HD3	1.96	0.42
6:l:153:ARG:NH2	6:l:235:TRP:CH2	2.88	0.42
6:l:176:ASP:OD2	10:U:1124:SER:HA	2.20	0.42
8:d:13:LYS:CD	9:c:413:SER:CB	2.94	0.42
9:c:596:TYR:HA	9:c:599:MET:HE3	2.02	0.42
10:U:1312:SER:HB2	13:a:799:VAL:CG1	2.50	0.42
11:O:465:PRO:O	11:Q:709:CYS:SG	2.77	0.42
4:R:636:THR:HG23	2:T:453:GLU:CD	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:368:THR:HG22	15:F:467:LEU:CD1	2.50	0.41
1:H:552:GLY:HA3	11:N:551:ARG:HH12	1.85	0.41
6:L:1482:ARG:HH22	9:C:87:GLU:HB3	1.85	0.41
9:c:592:ALA:O	13:a:1121:LEU:HD22	2.20	0.41
11:P:490:ALA:HB2	11:P:577:TRP:HE1	1.84	0.41
11:O:3:ARG:CZ	15:f:589:PRO:CG	2.81	0.41
11:O:468:THR:CB	11:Q:667:ILE:CD1	2.98	0.41
11:O:469:SER:HG	11:Q:667:ILE:HG13	1.60	0.41
11:O:481:LEU:HD11	11:Q:693:ILE:HB	0.65	0.41
11:O:776:LYS:O	11:Q:780:PRO:CB	2.66	0.41
11:O:780:PRO:CB	11:Q:656:LEU:CD1	2.90	0.41
11:Q:490:ALA:HB2	11:Q:577:TRP:HE1	1.84	0.41
4:R:571:ASN:OD1	3:S:730:ALA:CB	2.39	0.41
1:H:222:ILE:HD11	1:H:551:LEU:HD22	2.02	0.41
1:H:465:GLU:OE1	11:N:23:ARG:NH2	2.53	0.41
5:g:13:GLU:HG2	13:a:1383:ALA:HA	1.63	0.41
6:l:1246:ALA:N	13:a:1276:GLU:CG	2.74	0.41
7:E:26:ARG:HH12	7:E:88:GLU:CD	2.28	0.41
7:E:39:TRP:CZ2	9:C:51:CYS:HB3	2.55	0.41
7:E:39:TRP:CZ3	7:E:49:CYS:HB2	2.55	0.41
7:e:9:ALA:H	9:c:52:PRO:C	2.28	0.41
9:c:158:GLY:HA2	9:c:241:LEU:HD13	2.02	0.41
9:c:535:PHE:HB2	9:c:566:ILE:HG22	2.01	0.41
11:O:36:TYR:CD2	15:f:587:ASP:HB2	2.55	0.41
11:O:476:PRO:HD2	11:Q:767:HIS:CE1	2.56	0.41
11:O:596:GLU:HA	11:Q:795:PHE:CD2	2.55	0.41
11:O:775:ILE:CD1	11:Q:785:LEU:HD21	2.50	0.41
13:A:218:THR:HG21	13:A:290:VAL:HG23	2.02	0.41
13:A:479:ILE:HD11	13:A:501:VAL:HG23	2.01	0.41
15:f:259:TRP:CZ3	15:f:311:LEU:HD13	2.55	0.41
3:S:786:GLN:CD	2:T:435:LEU:HD11	2.36	0.41
1:h:222:ILE:HD11	1:h:551:LEU:HD22	2.02	0.41
2:t:358:GLU:CB	4:r:535:ASN:HA	2.51	0.41
4:r:386:ILE:HD13	4:r:465:THR:CG2	2.51	0.41
5:g:24:TYR:CD2	15:f:735:ARG:HD3	2.44	0.41
5:G:304:LYS:HA	15:F:267:LYS:HB2	2.01	0.41
6:l:1199:LEU:HD13	6:l:1207:ILE:HD12	2.02	0.41
9:c:596:TYR:HE2	13:a:1118:ASN:HA	1.85	0.41
11:O:31:LEU:HD13	15:f:591:ALA:N	2.35	0.41
11:O:454:ARG:NE	11:Q:695:ASN:ND2	2.64	0.41
12:B:174:HIS:NE2	13:A:921:LYS:CE	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:I:476:MET:SD	14:I:593:ALA:CB	3.08	0.41
14:I:769:ILE:O	14:I:773:VAL:HG23	2.20	0.41
15:f:811:MET:HE1	15:f:831:LYS:CD	2.51	0.41
14:i:769:ILE:O	14:i:773:VAL:HG23	2.21	0.41
1:H:159:SER:HG	11:N:475:ILE:CG2	2.28	0.41
1:H:719:GLU:OE1	11:Q:8:ILE:O	2.39	0.41
2:t:357:LEU:CB	4:r:543:PRO:HG3	2.50	0.41
2:t:364:TRP:C	3:s:1743:ILE:CD1	2.94	0.41
2:t:382:VAL:HG23	3:s:1758:SER:HB3	2.02	0.41
6:L:466:PRO:HG2	13:A:1196:PRO:CB	2.50	0.41
7:e:25:ARG:NH2	9:c:441:PRO:HB2	2.35	0.41
8:D:9:PHE:CE2	9:C:70:LYS:HA	2.55	0.41
8:d:150:ILE:HG13	8:d:172:MET:HE1	2.02	0.41
9:c:123:THR:OG1	9:c:126:THR:OG1	1.84	0.41
10:U:1388:SER:C	13:a:1148:ARG:CD	2.91	0.41
11:O:14:ASN:O	15:f:583:ILE:CA	2.66	0.41
11:O:467:GLU:H	11:Q:689:LYS:CB	2.26	0.41
11:O:571:PRO:HG2	11:O:621:ILE:CD1	2.51	0.41
11:O:585:GLY:HA3	11:O:598:MET:HE3	2.01	0.41
11:O:780:PRO:HG3	11:Q:660:ASP:N	2.35	0.41
11:Q:83:TYR:CD1	11:Q:96:LEU:HD11	2.56	0.41
11:Q:147:TRP:CZ2	11:Q:174:LEU:HD21	2.55	0.41
13:a:1172:ILE:CD1	15:f:900:PRO:C	2.64	0.41
15:f:501:GLU:CD	15:f:501:GLU:H	2.28	0.41
4:R:358:GLU:OE1	4:R:554:ARG:NH2	2.53	0.41
4:R:362:LYS:O	4:R:554:ARG:CD	2.69	0.41
4:R:365:THR:HG22	4:R:550:GLN:CD	2.44	0.41
4:R:496:GLN:CD	2:T:389:THR:HG1	2.10	0.41
4:r:48:LEU:C	4:r:48:LEU:HD12	2.46	0.41
5:G:22:ASP:OD2	15:F:735:ARG:CZ	2.67	0.41
6:L:617:GLU:N	13:A:1312:HIS:HE1	2.19	0.41
6:L:1406:ILE:HG23	6:L:1417:ARG:HH11	1.86	0.41
7:e:282:TRP:CB	9:c:39:TYR:CZ	3.01	0.41
7:e:283:ARG:NH2	9:c:39:TYR:HE1	2.18	0.41
9:c:565:ARG:HH22	13:a:1221:ASP:HB2	1.85	0.41
11:O:35:LEU:H	15:f:588:GLU:CA	2.30	0.41
11:O:457:LEU:N	11:Q:698:LEU:HD23	2.35	0.41
11:O:470:ARG:NH1	11:Q:668:ILE:HA	2.12	0.41
13:A:1138:VAL:C	15:F:906:GLU:OE1	2.33	0.41
13:a:1239:GLU:CG	13:a:1304:CYS:SG	3.07	0.41
5:G:34:ASP:CB	13:A:1382:SER:OG	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:285:VAL:CG1	15:F:263:HIS:CE1	3.04	0.41
6:l:169:MET:HE1	10:U:1130:THR:HB	1.05	0.41
8:d:13:LYS:HE3	9:c:413:SER:C	2.40	0.41
9:c:322:LEU:HD23	9:c:351:PHE:HD1	1.83	0.41
11:O:461:PHE:CE2	11:Q:700:ALA:C	2.70	0.41
11:O:596:GLU:H	11:Q:795:PHE:HA	1.60	0.41
11:N:571:PRO:HG2	11:N:621:ILE:CD1	2.51	0.41
11:M:147:TRP:CZ2	11:M:174:LEU:HD21	2.56	0.41
12:b:287:HIS:CG	13:a:1008:HIS:NE2	2.89	0.41
13:a:824:PHE:CE2	13:a:832:PHE:CE2	3.09	0.41
13:a:1168:SER:O	15:f:858:LYS:HE2	2.21	0.41
15:f:828:LEU:HD23	15:f:867:VAL:CG2	2.51	0.41
4:R:363:PHE:CE1	4:R:551:LEU:CA	2.97	0.41
5:G:304:LYS:HE2	15:F:305:HIS:CE1	2.56	0.41
6:L:465:GLU:CG	13:A:1197:SER:C	2.82	0.41
6:L:778:GLU:HB3	7:E:260:SER:OG	2.20	0.41
6:l:785:VAL:HG13	7:e:258:SER:CB	2.45	0.41
6:l:1475:ALA:HB1	8:d:305:PHE:HZ	1.86	0.41
7:e:91:GLY:CA	8:d:125:SER:CB	2.79	0.41
8:D:297:PHE:O	8:D:298:LEU:HG	2.20	0.41
9:c:253:GLU:HB2	4:R:460:ASP:HA	1.41	0.41
9:c:257:GLN:HE22	4:R:464:GLY:H	0.88	0.41
9:c:299:MET:C	9:c:301:THR:H	2.29	0.41
9:c:653:GLU:CG	13:a:1074:ASN:CB	2.98	0.41
11:O:788:SER:O	11:Q:597:TYR:CE1	2.73	0.41
11:Q:571:PRO:HG2	11:Q:621:ILE:CD1	2.51	0.41
12:B:287:HIS:CG	13:A:1008:HIS:NE2	2.88	0.41
12:b:220:ASN:CA	13:a:921:LYS:H	2.29	0.41
13:A:308:LEU:HD23	13:A:384:LEU:HD11	2.02	0.41
13:A:647:GLU:HG2	13:A:741:ARG:HH12	1.84	0.41
13:A:810:ARG:HH12	13:A:826:ASP:HA	1.86	0.41
13:A:1167:SER:OG	15:F:859:ARG:NE	2.50	0.41
15:F:828:LEU:HD23	15:F:867:VAL:CG2	2.51	0.41
14:i:396:GLN:HB2	14:i:410:TYR:CE1	2.56	0.41
1:H:159:SER:N	11:N:475:ILE:HD13	2.36	0.41
2:t:371:GLN:HG3	3:s:1747:GLN:HB2	1.52	0.41
4:r:96:PHE:CZ	4:R:512:VAL:HA	2.43	0.41
4:r:119:MET:CE	4:R:512:VAL:HG21	2.50	0.41
5:g:304:LYS:HE2	15:f:305:HIS:CE1	2.55	0.41
6:l:987:LEU:C	6:l:987:LEU:HD23	2.45	0.41
6:l:1785:LEU:CD1	6:l:1962:LEU:HD12	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:e:294:ALA:HB2	9:c:27:TRP:CZ2	2.56	0.41
9:C:641:LEU:HD21	13:A:1121:LEU:HD12	1.93	0.41
9:c:442:LEU:HD11	9:c:467:ILE:HG23	2.02	0.41
11:P:147:TRP:CZ2	11:P:174:LEU:HD21	2.55	0.41
11:O:83:TYR:CD1	11:O:96:LEU:HD11	2.56	0.41
11:O:458:LYS:N	11:Q:693:ILE:HG22	2.35	0.41
11:N:147:TRP:CZ2	11:N:174:LEU:HD21	2.56	0.41
12:B:218:VAL:C	13:A:917:GLY:C	2.78	0.41
13:A:178:ILE:HG21	13:A:183:ILE:CD1	2.34	0.41
4:R:444:LEU:CD2	4:R:551:LEU:CD2	2.99	0.41
1:H:491:ASP:HB2	15:f:753:ASN:OD1	2.21	0.41
1:H:491:ASP:CG	15:f:793:GLN:CA	2.64	0.41
2:t:361:ILE:HB	4:r:533:LEU:HB3	1.72	0.41
2:t:364:TRP:C	3:s:1743:ILE:HD13	2.46	0.41
4:r:119:MET:HA	4:R:511:ASP:H	1.72	0.41
4:r:153:THR:HG23	4:R:518:GLU:HB3	1.87	0.41
5:G:226:PRO:HG3	15:F:651:GLU:HB2	2.02	0.41
6:L:1695:LEU:CD1	9:C:251:GLU:OE2	2.64	0.41
6:L:1785:LEU:CD1	6:L:1962:LEU:HD12	2.51	0.41
6:l:1406:ILE:HG23	6:l:1417:ARG:HH11	1.86	0.41
6:l:1556:MET:CE	6:l:1625:ILE:HD12	2.51	0.41
6:l:1702:GLU:CD	4:R:245:LYS:HE3	2.44	0.41
7:E:47:TRP:CZ3	9:C:54:MET:SD	2.97	0.41
9:C:599:MET:HE2	13:A:1128:ARG:NH1	2.36	0.41
9:c:253:GLU:HG2	4:R:461:LEU:HB2	1.95	0.41
9:c:442:LEU:CD1	9:c:467:ILE:HG23	2.51	0.41
9:c:622:ASP:CB	11:M:13:GLU:HG2	2.51	0.41
10:U:1313:ARG:HD2	13:a:797:LEU:N	2.35	0.41
11:O:1:MET:HB3	15:f:567:GLU:CG	2.38	0.41
11:O:788:SER:O	11:Q:584:THR:C	2.63	0.41
11:M:571:PRO:HG2	11:M:621:ILE:CD1	2.51	0.41
13:A:1170:ILE:HG13	15:F:858:LYS:CE	2.50	0.41
13:a:54:ARG:HH12	13:a:818:THR:HG23	1.86	0.41
14:I:624:LEU:HD13	14:I:747:HIS:CD2	2.56	0.41
15:F:501:GLU:H	15:F:501:GLU:CD	2.29	0.41
4:R:477:ILE:CB	2:T:360:ASN:OD1	2.69	0.41
4:R:581:LEU:HD12	3:S:734:VAL:CG2	2.51	0.41
4:R:609:LEU:HD21	2:T:414:LEU:CG	2.50	0.41
3:S:713:ILE:HD11	2:T:358:LEU:HD23	2.03	0.41
3:S:736:SER:OG	3:S:739:GLU:HG3	2.21	0.41
3:S:768:PHE:HD2	2:T:414:LEU:CD2	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:t:364:TRP:HZ2	3:s:1736:LEU:O	1.96	0.41
4:r:119:MET:CA	4:R:509:LEU:HA	2.51	0.41
5:g:304:LYS:HG2	15:f:267:LYS:CB	2.51	0.41
5:G:304:LYS:HG2	15:F:267:LYS:CB	2.51	0.41
6:L:1250:ARG:HB2	13:A:1278:SER:HA	2.03	0.41
6:l:620:GLN:NE2	13:a:1339:TYR:CZ	2.74	0.41
7:E:171:ASN:ND2	7:E:181:MET:HE3	2.36	0.41
7:E:294:ALA:HB1	9:C:27:TRP:HZ2	1.82	0.41
7:e:2:PHE:N	9:c:11:THR:HG21	2.35	0.41
7:e:18:VAL:CB	9:c:35:TYR:CE1	3.03	0.41
8:D:191:GLN:OE1	9:C:518:ASP:CB	2.65	0.41
8:d:259:ALA:CB	9:c:453:ARG:NH1	2.69	0.41
9:C:653:GLU:CD	13:A:1042:LEU:HD13	2.24	0.41
11:O:15:ALA:C	15:f:584:SER:OG	2.59	0.41
11:O:780:PRO:CG	11:Q:657:ASP:HA	2.51	0.41
11:N:83:TYR:CD1	11:N:96:LEU:HD11	2.56	0.41
12:B:221:THR:HG22	13:A:921:LYS:HZ2	1.40	0.41
4:R:364:ALA:O	4:R:550:GLN:HG2	2.21	0.41
3:S:835:LEU:HG	2:T:483:LEU:CD1	2.48	0.41
5:g:20:GLN:NE2	15:f:252:ARG:H	2.19	0.40
5:G:190:LEU:HD22	5:G:206:LYS:HE2	2.04	0.40
6:L:987:LEU:C	6:L:987:LEU:HD23	2.46	0.40
8:D:150:ILE:HG13	8:D:172:MET:HE1	2.02	0.40
9:c:58:ARG:NH1	9:c:64:TYR:CZ	2.74	0.40
9:c:252:PHE:HE1	9:c:315:PRO:HB2	1.86	0.40
9:c:437:MET:SD	9:c:440:ILE:HD12	2.61	0.40
11:O:147:TRP:CZ2	11:O:174:LEU:HD21	2.55	0.40
11:O:481:LEU:HD21	11:Q:706:PHE:N	2.37	0.40
11:O:602:VAL:HG23	11:Q:791:LYS:CB	2.52	0.40
14:I:1110:LEU:O	14:I:1119:LYS:HE2	2.20	0.40
3:S:765:ARG:HA	2:T:414:LEU:CD1	2.50	0.40
3:S:768:PHE:CD2	2:T:414:LEU:CD2	3.03	0.40
3:S:775:ASN:HD21	2:T:425:GLN:CD	2.27	0.40
14:i:476:MET:SD	14:i:593:ALA:HB2	2.61	0.40
1:H:808:ILE:HG21	1:H:852:LEU:HB2	2.04	0.40
2:t:364:TRP:CZ2	3:s:1735:ILE:O	2.68	0.40
6:L:655:GLU:HG2	13:A:1247:ARG:HA	2.02	0.40
7:E:309:TYR:CB	9:C:390:LEU:HB3	2.48	0.40
7:e:2:PHE:CB	9:c:11:THR:HG21	2.51	0.40
8:D:39:ASP:OD2	9:C:412:HIS:C	2.58	0.40
9:c:253:GLU:CB	4:R:460:ASP:CG	2.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c:316:THR:HG1	4:R:462:PHE:HE2	1.62	0.40
9:c:621:GLN:N	11:M:10:ARG:HA	2.05	0.40
11:P:83:TYR:CD1	11:P:96:LEU:HD11	2.56	0.40
11:O:457:LEU:C	11:Q:698:LEU:HD22	1.97	0.40
13:A:1080:TYR:CB	13:A:1096:MET:HE3	2.51	0.40
4:R:48:LEU:CD1	4:R:456:TRP:HB2	2.51	0.40
4:R:480:PRO:HD3	2:T:367:LEU:HD11	0.68	0.40
1:h:223:GLN:CA	11:P:548:ALA:HB1	2.33	0.40
2:t:357:LEU:CG	4:r:543:PRO:HG3	2.26	0.40
4:r:109:HIS:CD2	4:R:507:HIS:CD2	3.10	0.40
4:r:119:MET:HG3	4:R:509:LEU:HB3	1.95	0.40
5:g:269:TRP:N	15:f:253:VAL:O	2.53	0.40
5:G:269:TRP:N	15:F:253:VAL:O	2.54	0.40
6:L:1693:ILE:HG21	9:C:247:GLN:C	2.16	0.40
7:e:39:TRP:CZ3	7:e:49:CYS:HB2	2.55	0.40
7:e:171:ASN:ND2	7:e:181:MET:HE3	2.36	0.40
7:e:302:VAL:HG11	9:c:32:LEU:HD21	2.02	0.40
9:C:385:PHE:CE1	9:C:396:MET:HE1	2.56	0.40
11:O:31:LEU:CD1	15:f:591:ALA:H	2.34	0.40
11:O:783:THR:OG1	11:Q:602:VAL:CG2	2.69	0.40
11:Q:530:TRP:CD1	11:Q:557:ASP:HB2	2.56	0.40
11:M:83:TYR:CD1	11:M:96:LEU:HD11	2.56	0.40
13:a:218:THR:HG21	13:a:290:VAL:HG23	2.03	0.40
14:I:476:MET:SD	14:I:593:ALA:HB2	2.61	0.40
4:R:443:PRO:HB3	2:T:358:LEU:HD13	2.02	0.40
4:R:596:ARG:HG3	3:S:750:LEU:HD21	1.99	0.40
3:S:775:ASN:ND2	2:T:421:ILE:CG2	2.84	0.40
5:g:20:GLN:HG2	15:f:251:PHE:HD2	1.04	0.40
5:g:54:ARG:NH2	13:a:1334:ARG:CD	2.68	0.40
5:g:292:VAL:CB	15:f:616:CYS:O	2.69	0.40
5:g:304:LYS:HA	15:f:267:LYS:HB2	2.04	0.40
6:L:1522:LYS:HG3	9:C:92:LYS:HZ3	1.82	0.40
7:E:37:LYS:HZ3	9:C:50:ARG:HG2	1.84	0.40
7:e:69:GLU:OE1	9:c:469:LYS:CD	2.69	0.40
9:c:584:GLU:HA	9:c:643:ARG:HH22	1.86	0.40
10:U:1363:SER:O	13:a:994:ALA:CB	2.55	0.40
11:P:571:PRO:HG2	11:P:621:ILE:CD1	2.51	0.40
11:O:470:ARG:HB3	11:Q:668:ILE:CD1	2.52	0.40
11:O:530:TRP:CD1	11:O:557:ASP:HB2	2.56	0.40
11:O:782:PRO:CG	11:Q:669:ALA:CB	2.98	0.40
12:b:174:HIS:NE2	13:a:921:LYS:CE	2.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:701:LEU:HD22	13:A:704:LEU:HD11	2.03	0.40
4:R:479:ARG:NH2	2:T:361:LEU:CA	2.85	0.40
2:T:443:SER:CB	2:T:449:GLN:HE22	2.34	0.40
6:L:466:PRO:C	13:A:1197:SER:OG	2.54	0.40
6:L:613:LEU:HB3	13:A:1247:ARG:CG	2.52	0.40
9:c:83:GLN:CB	9:c:424:TYR:CE1	3.04	0.40
11:O:463:ARG:CG	11:Q:710:LEU:CB	2.67	0.40
11:O:467:GLU:N	11:Q:689:LYS:CB	2.82	0.40
11:O:651:ILE:N	11:Q:789:PRO:CB	2.68	0.40
11:N:530:TRP:CD1	11:N:557:ASP:HB2	2.56	0.40
13:a:156:LEU:HD11	13:a:229:PHE:HB3	2.03	0.40
13:a:914:LEU:CD2	13:a:964:LEU:HD21	2.51	0.40
13:a:1080:TYR:CB	13:a:1096:MET:HE3	2.51	0.40
4:R:1:MET:CE	2:T:374:LYS:CD	2.99	0.40
4:R:386:ILE:HD13	4:R:465:THR:CG2	2.51	0.40
4:R:494:CYS:N	2:T:381:THR:C	2.78	0.40
4:R:544:PRO:CG	3:S:701:GLU:CG	2.82	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	H	787/916 (86%)	762 (97%)	17 (2%)	8 (1%)	12	48
1	h	787/916 (86%)	762 (97%)	17 (2%)	8 (1%)	12	48
2	T	126/547 (23%)	124 (98%)	1 (1%)	1 (1%)	16	54
2	t	27/547 (5%)	27 (100%)	0	0	100	100
3	S	136/2037 (7%)	134 (98%)	1 (1%)	1 (1%)	18	56
3	s	30/2037 (2%)	30 (100%)	0	0	100	100
4	R	674/728 (93%)	627 (93%)	30 (4%)	17 (2%)	4	26

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	r	464/728 (64%)	433 (93%)	19 (4%)	12 (3%)	4	25
5	G	304/306 (99%)	293 (96%)	8 (3%)	3 (1%)	12	48
5	g	304/306 (99%)	294 (97%)	7 (2%)	3 (1%)	12	48
6	L	2009/2011 (100%)	1889 (94%)	93 (5%)	27 (1%)	9	42
6	l	2009/2011 (100%)	1889 (94%)	93 (5%)	27 (1%)	9	42
7	E	320/322 (99%)	305 (95%)	10 (3%)	5 (2%)	7	38
7	e	320/322 (99%)	305 (95%)	10 (3%)	5 (2%)	7	38
8	D	373/375 (100%)	345 (92%)	20 (5%)	8 (2%)	5	30
8	d	373/375 (100%)	345 (92%)	20 (5%)	8 (2%)	5	30
9	C	651/653 (100%)	630 (97%)	15 (2%)	6 (1%)	14	51
9	c	651/653 (100%)	614 (94%)	20 (3%)	17 (3%)	4	25
10	U	356/1388 (26%)	352 (99%)	4 (1%)	0	100	100
11	M	796/2905 (27%)	768 (96%)	21 (3%)	7 (1%)	14	51
11	N	796/2905 (27%)	768 (96%)	21 (3%)	7 (1%)	14	51
11	O	796/2905 (27%)	768 (96%)	21 (3%)	7 (1%)	14	51
11	P	796/2905 (27%)	768 (96%)	21 (3%)	7 (1%)	14	51
11	Q	796/2905 (27%)	768 (96%)	21 (3%)	7 (1%)	14	51
12	B	324/326 (99%)	307 (95%)	15 (5%)	2 (1%)	21	59
12	b	324/326 (99%)	307 (95%)	15 (5%)	2 (1%)	21	59
13	A	1350/1435 (94%)	1268 (94%)	61 (4%)	21 (2%)	7	38
13	a	1350/1435 (94%)	1268 (94%)	61 (4%)	21 (2%)	7	38
14	I	669/1140 (59%)	639 (96%)	19 (3%)	11 (2%)	7	38
14	i	1060/1140 (93%)	997 (94%)	41 (4%)	22 (2%)	5	30
15	F	635/673 (94%)	615 (97%)	16 (2%)	4 (1%)	21	59
15	f	635/673 (94%)	615 (97%)	16 (2%)	4 (1%)	21	59
All	All	21028/38851 (54%)	20016 (95%)	734 (4%)	278 (1%)	12	42

All (278) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	H	770	GLN
1	h	770	GLN
4	r	332	GLU

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Mol	Chain	Res	Type
4	r	540	ASP
5	g	172	SER
5	G	172	SER
6	L	53	LEU
6	L	1159	ASP
6	L	1163	SER
6	L	1169	HIS
6	L	1173	THR
6	L	1363	GLN
6	L	1933	ARG
6	L	1938	PHE
6	L	1990	SER
6	l	53	LEU
6	l	1159	ASP
6	l	1163	SER
6	l	1169	HIS
6	l	1173	THR
6	l	1363	GLN
6	l	1933	ARG
6	l	1938	PHE
6	l	1990	SER
7	E	95	ASP
7	e	95	ASP
8	D	297	PHE
8	D	300	GLY
8	D	302	ARG
8	d	297	PHE
8	d	300	GLY
8	d	302	ARG
9	C	40	GLN
9	C	335	ALA
9	c	2	GLU
9	c	3	GLU
9	c	4	LEU
9	c	5	ASP
9	c	19	GLN
9	c	44	ASN
9	c	46	GLU
9	c	48	ALA
9	c	49	ALA
9	c	387	ALA
12	B	135	PRO

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Mol	Chain	Res	Type
12	b	135	PRO
13	A	950	SER
13	A	1299	THR
13	A	1433	LEU
13	a	175	SER
13	a	950	SER
13	a	1299	THR
13	a	1433	LEU
14	I	496	ARG
14	I	1072	GLY
15	F	587	ASP
15	F	880	SER
15	f	587	ASP
15	f	880	SER
4	R	332	GLU
4	R	540	ASP
3	S	737	GLU
14	i	242	MET
14	i	253	LEU
14	i	496	ARG
14	i	1072	GLY
1	H	647	PHE
1	h	647	PHE
4	r	80	SER
4	r	81	SER
4	r	371	LEU
4	r	372	GLU
5	g	304	LYS
5	G	304	LYS
6	L	161	ASP
6	L	1601	MET
6	L	1603	GLU
6	L	1694	GLY
6	l	161	ASP
6	l	1601	MET
6	l	1603	GLU
6	l	1694	GLY
7	E	98	ARG
7	E	260	SER
7	e	98	ARG
7	e	260	SER
8	D	344	SER

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Mol	Chain	Res	Type
8	d	56	THR
8	d	344	SER
9	C	19	GLN
9	c	243	THR
9	c	621	GLN
11	P	762	ALA
11	P	772	THR
11	O	762	ALA
11	O	772	THR
11	Q	762	ALA
11	Q	772	THR
11	N	762	ALA
11	N	772	THR
11	M	762	ALA
11	M	772	THR
13	A	31	PHE
13	A	52	ALA
13	A	175	SER
13	A	688	ALA
13	A	809	LYS
13	A	844	LEU
13	A	947	GLU
13	a	31	PHE
13	a	52	ALA
13	a	688	ALA
13	a	809	LYS
13	a	844	LEU
13	a	947	GLU
14	I	499	GLN
14	I	571	GLU
14	I	578	ASN
14	I	579	THR
4	R	81	SER
4	R	371	LEU
4	R	372	GLU
4	R	504	ILE
14	i	243	LEU
14	i	246	ILE
14	i	393	GLN
14	i	499	GLN
14	i	571	GLU
14	i	578	ASN

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Mol	Chain	Res	Type
14	i	579	THR
1	H	118	ASP
1	h	118	ASP
4	r	76	GLU
4	r	374	ASP
6	L	1380	THR
6	L	1692	ASP
6	L	1932	ARG
6	L	1937	THR
6	l	1380	THR
6	l	1692	ASP
6	l	1932	ARG
6	l	1937	THR
7	E	94	ASN
7	e	94	ASN
8	D	56	THR
9	C	300	THR
9	C	621	GLN
9	c	335	ALA
9	c	388	HIS
9	c	615	PRO
11	P	694	GLU
11	O	694	GLU
11	Q	694	GLU
11	N	694	GLU
11	M	694	GLU
13	A	749	GLY
13	A	1275	LYS
13	a	749	GLY
13	a	1275	LYS
14	I	583	LEU
14	I	1071	ASP
4	R	76	GLU
4	R	80	SER
4	R	207	GLU
4	R	212	HIS
4	R	374	ASP
4	R	499	LYS
14	i	249	ARG
14	i	583	LEU
14	i	1071	ASP
1	H	121	SER

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Mol	Chain	Res	Type
1	h	121	SER
4	r	341	SER
4	r	343	CYS
4	r	538	SER
6	L	1156	GLY
6	l	1156	GLY
7	E	261	GLY
7	e	261	GLY
11	P	696	ASP
11	P	785	LEU
11	O	696	ASP
11	O	785	LEU
11	Q	696	ASP
11	Q	785	LEU
11	N	696	ASP
11	N	785	LEU
11	M	696	ASP
11	M	785	LEU
12	B	4	ASP
12	b	4	ASP
13	A	25	VAL
13	A	29	GLY
13	A	294	ASP
13	A	1168	SER
13	A	1267	GLN
13	a	25	VAL
13	a	29	GLY
13	a	294	ASP
13	a	1168	SER
13	a	1267	GLN
14	I	580	SER
15	F	582	SER
15	F	819	GLU
15	f	582	SER
4	R	341	SER
4	R	343	CYS
4	R	502	THR
4	R	538	SER
14	i	580	SER
1	H	119	SER
1	H	120	PRO
1	H	642	PHE

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Mol	Chain	Res	Type
1	H	652	ASP
1	h	119	SER
1	h	120	PRO
1	h	642	PHE
1	h	652	ASP
4	r	78	THR
6	L	545	ALA
6	l	545	ALA
8	D	293	GLU
8	D	319	GLN
8	d	293	GLU
8	d	319	GLN
9	C	44	ASN
9	c	389	ASN
11	P	774	ALA
11	O	774	ALA
11	Q	774	ALA
11	N	774	ALA
11	M	774	ALA
13	A	60	ASN
13	A	1052	ASN
13	a	60	ASN
13	a	1052	ASN
14	I	492	VAL
14	I	537	MET
15	f	819	GLU
4	R	78	THR
14	i	128	ALA
14	i	254	PHE
14	i	492	VAL
14	i	537	MET
2	T	380	ALA
5	g	55	GLY
5	G	55	GLY
6	L	1153	GLY
6	L	1175	LYS
6	L	1376	ALA
6	L	1546	LEU
6	L	1800	VAL
6	L	1936	ASP
6	l	1153	GLY
6	l	1175	LYS

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Mol	Chain	Res	Type
6	l	1376	ALA
6	l	1546	LEU
6	l	1800	VAL
6	l	1936	ASP
8	D	301	GLY
8	d	301	GLY
11	P	770	LEU
11	O	770	LEU
11	Q	770	LEU
11	N	770	LEU
11	M	770	LEU
13	A	807	VAL
13	A	812	TYR
13	a	807	VAL
13	a	812	TYR
14	i	239	GLY
14	i	248	ARG
6	L	474	GLY
6	l	474	GLY
9	c	618	ILE
6	L	1155	GLY
6	l	1155	GLY
14	i	256	ILE

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	H	704/816 (86%)	696 (99%)	8 (1%)	65	76
1	h	704/816 (86%)	696 (99%)	8 (1%)	65	76
2	T	120/429 (28%)	119 (99%)	1 (1%)	73	80
2	t	27/429 (6%)	27 (100%)	0	100	100
3	S	130/1634 (8%)	130 (100%)	0	100	100
3	s	29/1634 (2%)	29 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	R	614/660 (93%)	611 (100%)	3 (0%)	81	83
4	r	424/660 (64%)	424 (100%)	0	100	100
5	G	261/261 (100%)	260 (100%)	1 (0%)	84	84
5	g	261/261 (100%)	260 (100%)	1 (0%)	84	84
6	L	1779/1779 (100%)	1744 (98%)	35 (2%)	48	66
6	l	1779/1779 (100%)	1744 (98%)	35 (2%)	48	66
7	E	280/280 (100%)	280 (100%)	0	100	100
7	e	280/280 (100%)	280 (100%)	0	100	100
8	D	329/329 (100%)	328 (100%)	1 (0%)	86	86
8	d	329/329 (100%)	328 (100%)	1 (0%)	86	86
9	C	580/580 (100%)	578 (100%)	2 (0%)	86	86
9	c	580/580 (100%)	577 (100%)	3 (0%)	81	83
10	U	327/1219 (27%)	327 (100%)	0	100	100
11	M	716/2521 (28%)	713 (100%)	3 (0%)	84	84
11	N	716/2521 (28%)	713 (100%)	3 (0%)	84	84
11	O	716/2521 (28%)	713 (100%)	3 (0%)	84	84
11	P	716/2521 (28%)	713 (100%)	3 (0%)	84	84
11	Q	716/2521 (28%)	713 (100%)	3 (0%)	84	84
12	B	275/275 (100%)	275 (100%)	0	100	100
12	b	275/275 (100%)	275 (100%)	0	100	100
13	A	1184/1256 (94%)	1168 (99%)	16 (1%)	59	72
13	a	1184/1256 (94%)	1169 (99%)	15 (1%)	61	74
14	I	600/993 (60%)	598 (100%)	2 (0%)	86	86
14	i	935/993 (94%)	928 (99%)	7 (1%)	76	81
15	F	571/602 (95%)	567 (99%)	4 (1%)	76	81
15	f	571/602 (95%)	567 (99%)	4 (1%)	76	81
All	All	18712/33612 (56%)	18550 (99%)	162 (1%)	68	79

All (162) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	H	117	LEU
1	H	276	PHE

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Mol	Chain	Res	Type
1	H	280	ILE
1	H	487	LEU
1	H	652	ASP
1	H	680	LEU
1	H	727	LEU
1	H	886	THR
1	h	117	LEU
1	h	276	PHE
1	h	280	ILE
1	h	487	LEU
1	h	652	ASP
1	h	680	LEU
1	h	727	LEU
1	h	886	THR
5	g	47	GLN
5	G	47	GLN
6	L	7	LEU
6	L	80	THR
6	L	281	VAL
6	L	347	LEU
6	L	417	LEU
6	L	464	THR
6	L	467	LEU
6	L	470	THR
6	L	476	PHE
6	L	542	LEU
6	L	573	THR
6	L	578	GLN
6	L	676	THR
6	L	1150	SER
6	L	1172	THR
6	L	1298	ASP
6	L	1361	LEU
6	L	1380	THR
6	L	1384	SER
6	L	1440	LEU
6	L	1448	TRP
6	L	1645	LEU
6	L	1692	ASP
6	L	1727	LEU
6	L	1743	SER
6	L	1777	THR

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Mol	Chain	Res	Type
6	L	1787	GLU
6	L	1803	LEU
6	L	1867	THR
6	L	1868	THR
6	L	1925	SER
6	L	1937	THR
6	L	1949	LEU
6	L	1963	LEU
6	L	1992	HIS
6	l	7	LEU
6	l	80	THR
6	l	281	VAL
6	l	347	LEU
6	l	417	LEU
6	l	464	THR
6	l	467	LEU
6	l	470	THR
6	l	476	PHE
6	l	542	LEU
6	l	573	THR
6	l	578	GLN
6	l	676	THR
6	l	1150	SER
6	l	1172	THR
6	l	1298	ASP
6	l	1361	LEU
6	l	1380	THR
6	l	1384	SER
6	l	1440	LEU
6	l	1448	TRP
6	l	1645	LEU
6	l	1692	ASP
6	l	1727	LEU
6	l	1743	SER
6	l	1777	THR
6	l	1787	GLU
6	l	1803	LEU
6	l	1867	THR
6	l	1868	THR
6	l	1925	SER
6	l	1937	THR
6	l	1949	LEU

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Mol	Chain	Res	Type
6	l	1963	LEU
6	l	1992	HIS
8	D	56	THR
8	d	56	THR
9	C	154	SER
9	C	532	ARG
9	c	145	ASN
9	c	613	THR
9	c	624	SER
11	P	770	LEU
11	P	771	THR
11	P	783	THR
11	O	770	LEU
11	O	771	THR
11	O	783	THR
11	Q	770	LEU
11	Q	771	THR
11	Q	783	THR
11	N	770	LEU
11	N	771	THR
11	N	783	THR
11	M	770	LEU
11	M	771	THR
11	M	783	THR
13	A	24	MET
13	A	31	PHE
13	A	32	THR
13	A	42	LEU
13	A	146	GLU
13	A	231	LEU
13	A	266	LEU
13	A	293	LEU
13	A	363	THR
13	A	575	SER
13	A	697	THR
13	A	814	SER
13	A	1146	TYR
13	A	1370	LEU
13	A	1378	TRP
13	A	1407	LEU
13	a	24	MET
13	a	31	PHE

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Mol	Chain	Res	Type
13	a	32	THR
13	a	42	LEU
13	a	146	GLU
13	a	231	LEU
13	a	266	LEU
13	a	293	LEU
13	a	575	SER
13	a	697	THR
13	a	814	SER
13	a	1146	TYR
13	a	1370	LEU
13	a	1378	TRP
13	a	1407	LEU
14	I	577	SER
14	I	883	ASP
15	F	309	LEU
15	F	311	LEU
15	F	369	LEU
15	F	887	LEU
15	f	309	LEU
15	f	311	LEU
15	f	369	LEU
15	f	887	LEU
4	R	502	THR
4	R	635	HIS
4	R	655	THR
14	i	130	LEU
14	i	158	ASP
14	i	244	SER
14	i	250	VAL
14	i	252	THR
14	i	577	SER
14	i	883	ASP
2	T	387	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (324) such sidechains are listed below:

Mol	Chain	Res	Type
1	H	238	ASN
1	H	291	ASN
1	H	322	GLN
1	H	387	GLN

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Mol	Chain	Res	Type
1	H	554	GLN
1	H	569	GLN
1	H	573	ASN
1	H	608	GLN
1	H	684	ASN
1	H	717	GLN
1	H	738	HIS
1	H	861	GLN
1	h	238	ASN
1	h	291	ASN
1	h	387	GLN
1	h	569	GLN
1	h	573	ASN
1	h	608	GLN
1	h	717	GLN
1	h	861	GLN
4	r	92	ASN
4	r	109	HIS
4	r	408	ASN
4	r	431	GLN
4	r	437	HIS
4	r	519	HIS
4	r	530	ASN
4	r	535	ASN
5	g	114	HIS
5	g	154	ASN
5	g	200	GLN
5	g	205	GLN
5	g	266	HIS
5	G	107	ASN
5	G	114	HIS
5	G	154	ASN
5	G	205	GLN
5	G	266	HIS
6	L	63	GLN
6	L	225	GLN
6	L	226	GLN
6	L	311	HIS
6	L	326	GLN
6	L	409	ASN
6	L	497	GLN
6	L	525	HIS

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Mol	Chain	Res	Type
6	L	563	HIS
6	L	565	HIS
6	L	671	GLN
6	L	706	GLN
6	L	808	ASN
6	L	851	ASN
6	L	855	GLN
6	L	975	ASN
6	L	1018	GLN
6	L	1132	HIS
6	L	1134	GLN
6	L	1169	HIS
6	L	1206	GLN
6	L	1275	HIS
6	L	1304	HIS
6	L	1419	HIS
6	L	1596	HIS
6	L	1636	GLN
6	L	1706	HIS
6	L	1729	GLN
6	L	1753	GLN
6	L	1824	ASN
6	L	1855	GLN
6	L	1992	HIS
6	l	37	HIS
6	l	63	GLN
6	l	225	GLN
6	l	226	GLN
6	l	311	HIS
6	l	326	GLN
6	l	497	GLN
6	l	563	HIS
6	l	565	HIS
6	l	706	GLN
6	l	808	ASN
6	l	851	ASN
6	l	855	GLN
6	l	975	ASN
6	l	1018	GLN
6	l	1132	HIS
6	l	1134	GLN
6	l	1169	HIS

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Mol	Chain	Res	Type
6	l	1222	GLN
6	l	1275	HIS
6	l	1304	HIS
6	l	1419	HIS
6	l	1636	GLN
6	l	1729	GLN
6	l	1753	GLN
6	l	1824	ASN
6	l	1855	GLN
6	l	1992	HIS
7	E	48	HIS
7	E	72	GLN
7	E	276	ASN
7	E	312	ASN
7	e	23	HIS
7	e	48	HIS
7	e	72	GLN
7	e	269	HIS
7	e	276	ASN
8	D	68	GLN
8	D	122	HIS
8	D	126	ASN
8	D	356	GLN
8	d	40	ASN
8	d	68	GLN
8	d	122	HIS
8	d	126	ASN
8	d	227	GLN
8	d	356	GLN
9	C	22	HIS
9	C	100	GLN
9	C	104	ASN
9	C	247	GLN
9	C	314	HIS
9	C	356	HIS
9	C	550	GLN
9	C	652	GLN
9	c	97	GLN
9	c	171	HIS
9	c	242	HIS
9	c	257	GLN
9	c	277	HIS

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Mol	Chain	Res	Type
9	c	304	HIS
9	c	314	HIS
9	c	323	HIS
9	c	357	GLN
9	c	411	HIS
9	c	416	GLN
9	c	640	ASN
10	U	1090	ASN
10	U	1155	GLN
10	U	1204	HIS
11	P	68	GLN
11	P	148	ASN
11	P	187	HIS
11	P	236	GLN
11	P	288	HIS
11	P	424	ASN
11	P	498	GLN
11	P	500	GLN
11	P	576	ASN
11	P	759	HIS
11	O	68	GLN
11	O	148	ASN
11	O	187	HIS
11	O	236	GLN
11	O	288	HIS
11	O	382	GLN
11	O	411	ASN
11	O	436	HIS
11	O	500	GLN
11	O	576	ASN
11	O	759	HIS
11	Q	68	GLN
11	Q	148	ASN
11	Q	187	HIS
11	Q	236	GLN
11	Q	382	GLN
11	Q	424	ASN
11	Q	436	HIS
11	Q	500	GLN
11	Q	576	ASN
11	Q	582	HIS
11	Q	695	ASN

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Mol	Chain	Res	Type
11	Q	707	GLN
11	Q	766	ASN
11	Q	767	HIS
11	N	68	GLN
11	N	148	ASN
11	N	187	HIS
11	N	236	GLN
11	N	288	HIS
11	N	382	GLN
11	N	411	ASN
11	N	424	ASN
11	N	436	HIS
11	N	500	GLN
11	N	576	ASN
11	M	17	ASN
11	M	68	GLN
11	M	148	ASN
11	M	187	HIS
11	M	236	GLN
11	M	411	ASN
11	M	424	ASN
11	M	498	GLN
11	M	500	GLN
11	M	576	ASN
11	M	759	HIS
12	B	174	HIS
12	B	284	HIS
12	b	174	HIS
12	b	284	HIS
13	A	104	HIS
13	A	125	ASN
13	A	134	ASN
13	A	150	ASN
13	A	295	HIS
13	A	480	GLN
13	A	520	GLN
13	A	634	HIS
13	A	662	GLN
13	A	793	ASN
13	A	834	HIS
13	A	838	GLN
13	A	899	GLN

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Mol	Chain	Res	Type
13	A	976	GLN
13	A	1003	HIS
13	A	1054	HIS
13	A	1055	ASN
13	A	1073	HIS
13	A	1169	GLN
13	A	1216	GLN
13	A	1298	ASN
13	A	1386	HIS
13	A	1397	ASN
13	a	104	HIS
13	a	125	ASN
13	a	134	ASN
13	a	150	ASN
13	a	279	GLN
13	a	295	HIS
13	a	480	GLN
13	a	520	GLN
13	a	634	HIS
13	a	662	GLN
13	a	793	ASN
13	a	834	HIS
13	a	838	GLN
13	a	899	GLN
13	a	976	GLN
13	a	1003	HIS
13	a	1054	HIS
13	a	1055	ASN
13	a	1073	HIS
13	a	1074	ASN
13	a	1169	GLN
13	a	1194	HIS
13	a	1250	GLN
13	a	1267	GLN
13	a	1298	ASN
13	a	1386	HIS
14	I	475	HIS
14	I	651	ASN
14	I	681	GLN
14	I	747	HIS
14	I	767	HIS
14	I	866	GLN

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Mol	Chain	Res	Type
14	I	870	GLN
14	I	901	GLN
14	I	916	HIS
14	I	982	GLN
14	I	1017	GLN
14	I	1131	ASN
15	F	264	ASN
15	F	375	GLN
15	F	463	HIS
15	F	471	GLN
15	F	485	GLN
15	F	496	HIS
15	F	561	GLN
15	F	563	HIS
15	F	654	GLN
15	F	667	ASN
15	F	762	HIS
15	F	788	HIS
15	F	793	GLN
15	F	843	HIS
15	F	872	GLN
15	f	264	ASN
15	f	375	GLN
15	f	463	HIS
15	f	471	GLN
15	f	485	GLN
15	f	496	HIS
15	f	561	GLN
15	f	563	HIS
15	f	667	ASN
15	f	762	HIS
15	f	788	HIS
15	f	791	HIS
15	f	793	GLN
15	f	872	GLN
4	R	109	HIS
4	R	408	ASN
4	R	431	GLN
4	R	437	HIS
4	R	519	HIS
4	R	584	GLN
4	R	676	GLN

Continued on next page...

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Mol	Chain	Res	Type
3	S	786	GLN
14	i	233	GLN
14	i	238	GLN
14	i	299	ASN
14	i	331	ASN
14	i	384	ASN
14	i	440	ASN
14	i	475	HIS
14	i	681	GLN
14	i	747	HIS
14	i	767	HIS
14	i	866	GLN
14	i	870	GLN
14	i	901	GLN
14	i	916	HIS
14	i	918	HIS
14	i	982	GLN
14	i	1017	GLN
14	i	1131	ASN
2	T	363	ASN
2	T	378	GLN
2	T	392	GLN
2	T	411	GLN
2	T	424	GLN
2	T	425	GLN
2	T	449	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 [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
3	S	2
4	R	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	R	544:PRO	C	545:PRO	N	4.80
1	S	728:SER	C	729:ARG	N	3.21
1	S	736:SER	C	737:GLU	N	1.71

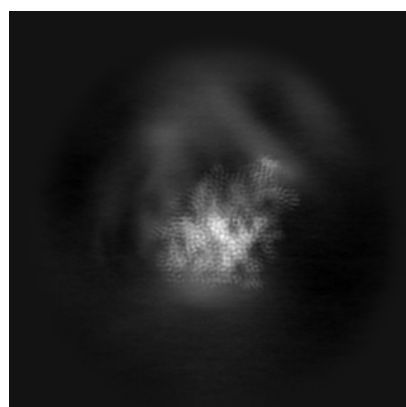
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-25817. These allow visual inspection of the internal detail of the map and identification of artifacts.

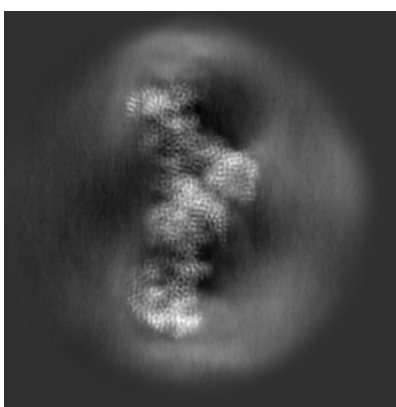
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

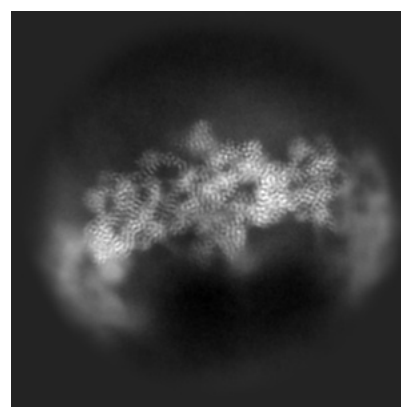
6.1.1 Primary map



X



Y

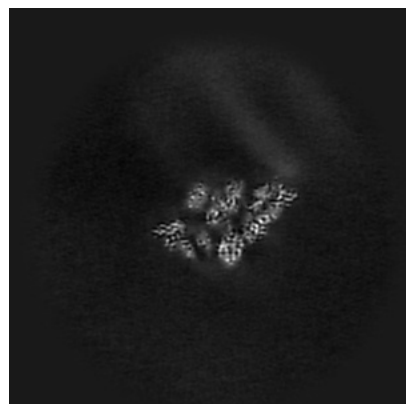


Z

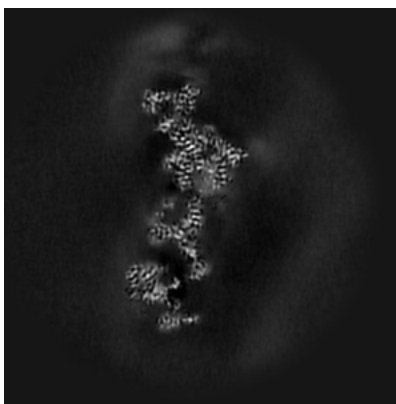
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

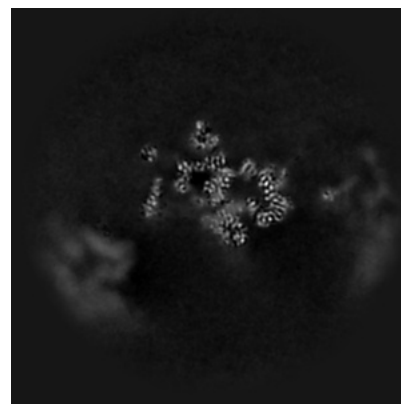
6.2.1 Primary map



X Index: 150



Y Index: 150

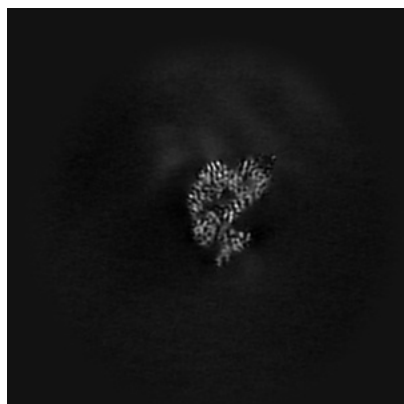


Z Index: 150

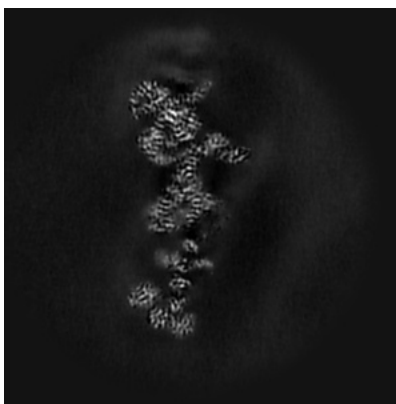
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

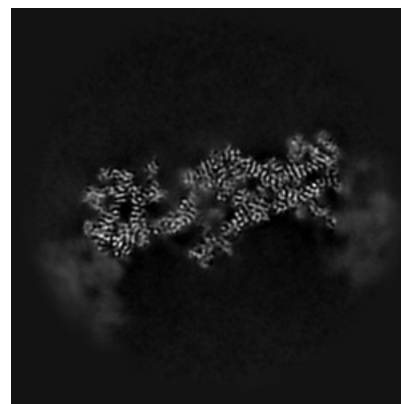
6.3.1 Primary map



X Index: 189



Y Index: 161

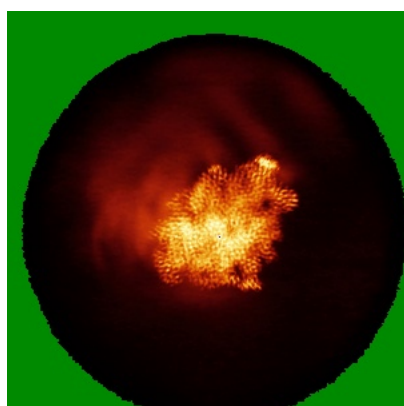


Z Index: 130

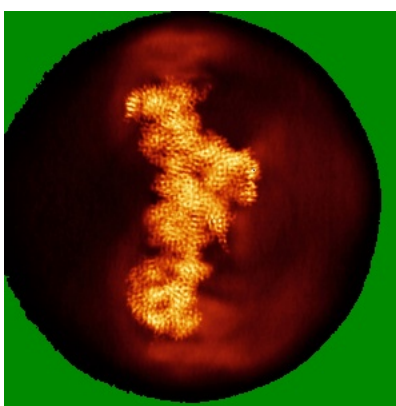
The images above show the largest variance slices of the map in three orthogonal directions.

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

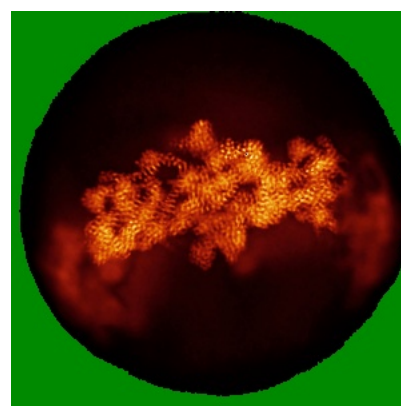
6.4.1 Primary map



X



Y

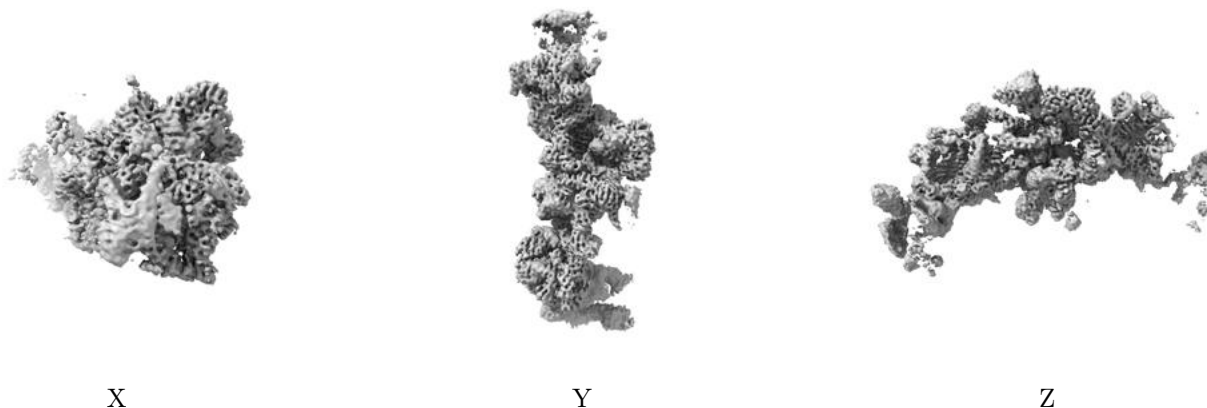


Z

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



The images above show the 3D surface view of the map at the recommended contour level 0.366. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

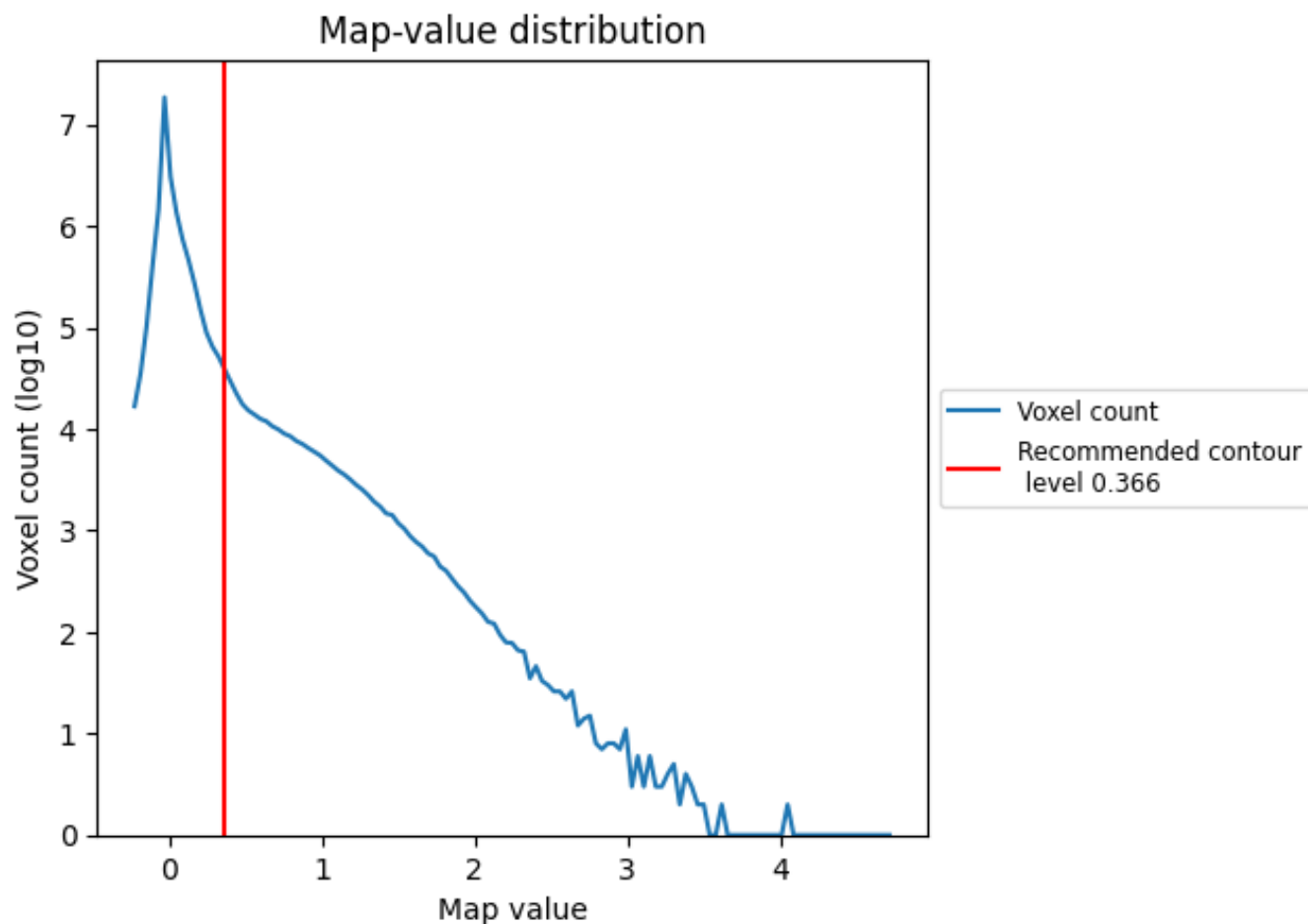
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

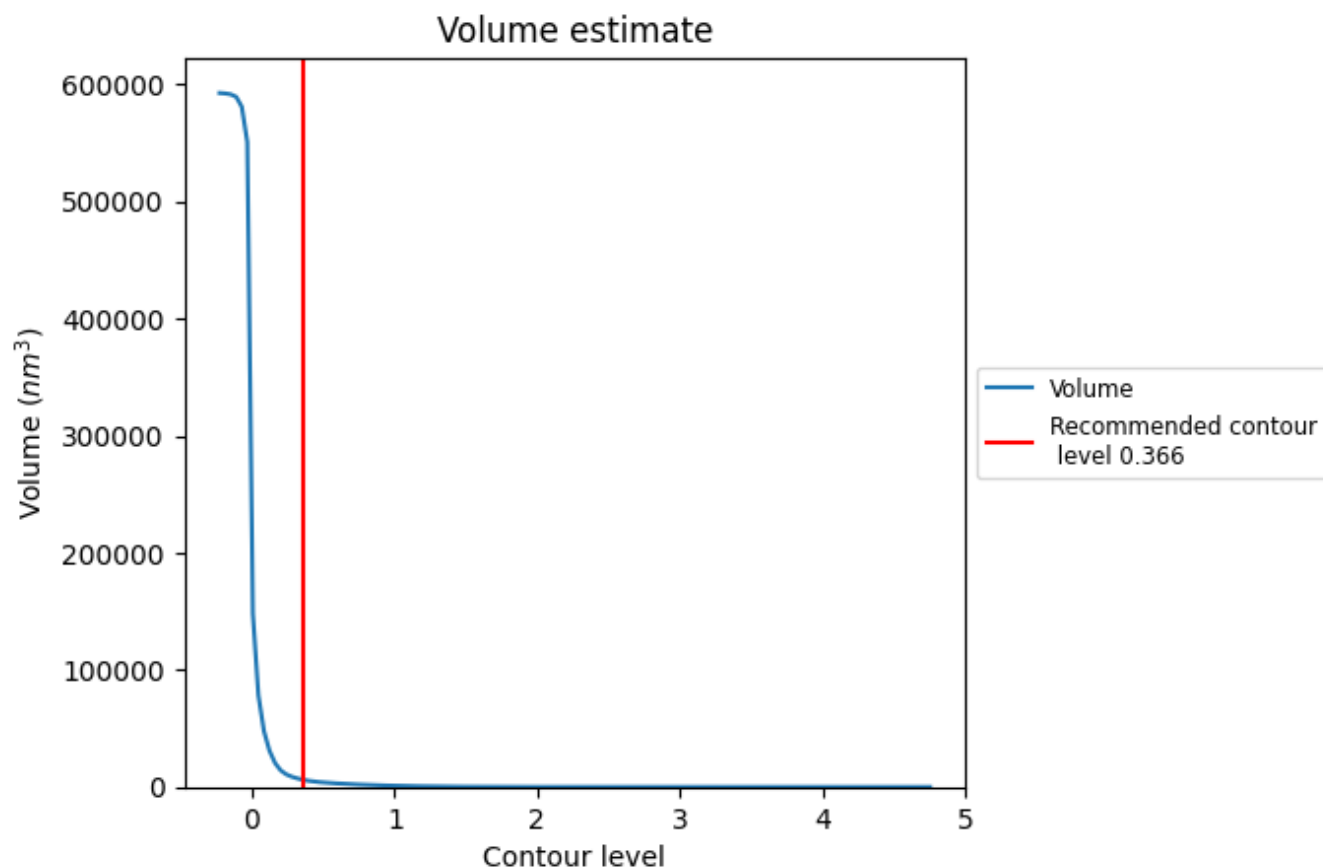
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

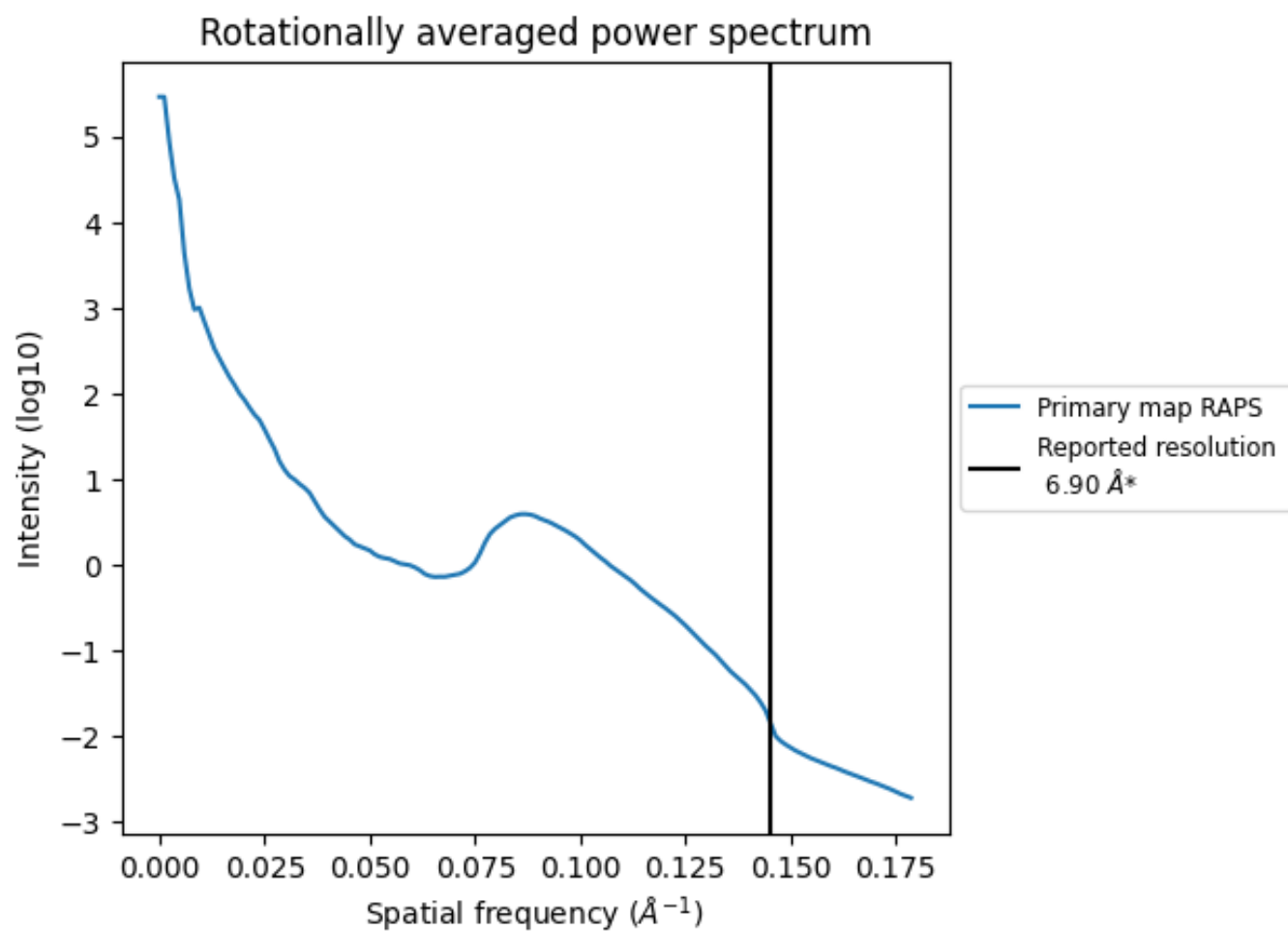
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 5957 nm^3 ; this corresponds to an approximate mass of 5381 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.145 Å⁻¹

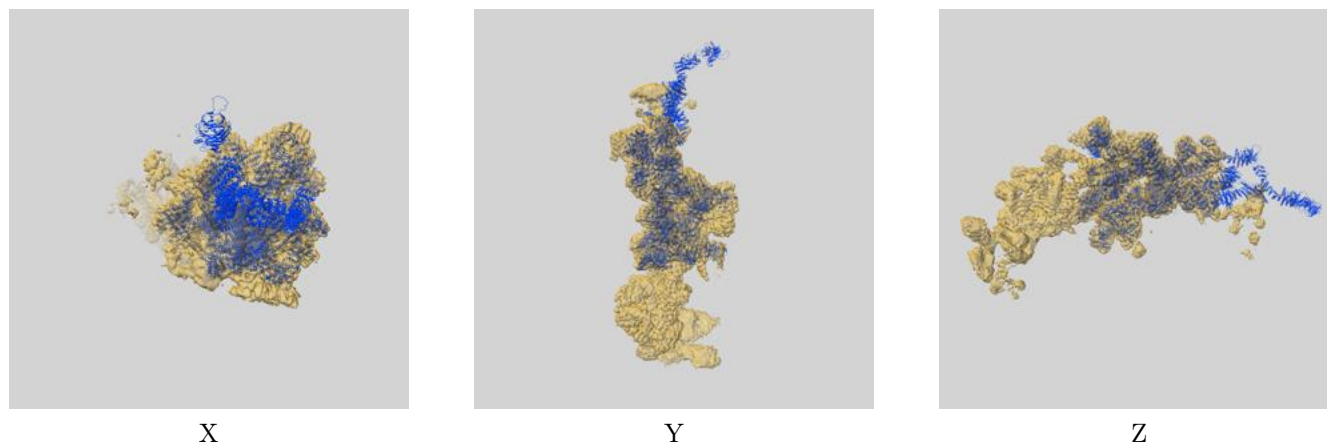
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

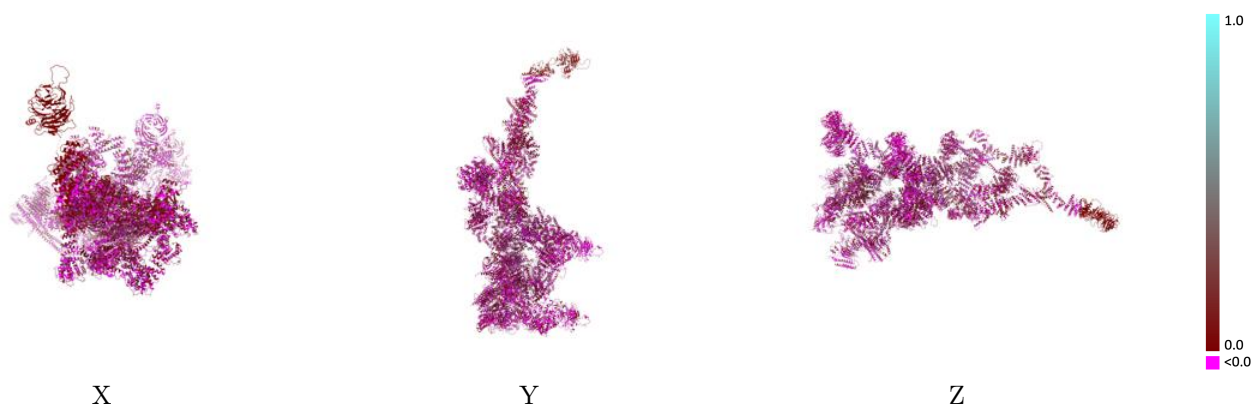
This section contains information regarding the fit between EMDB map EMD-25817 and PDB model 7TDZ. Per-residue inclusion information can be found in section 3 on page 9.

9.1 Map-model overlay [i](#)



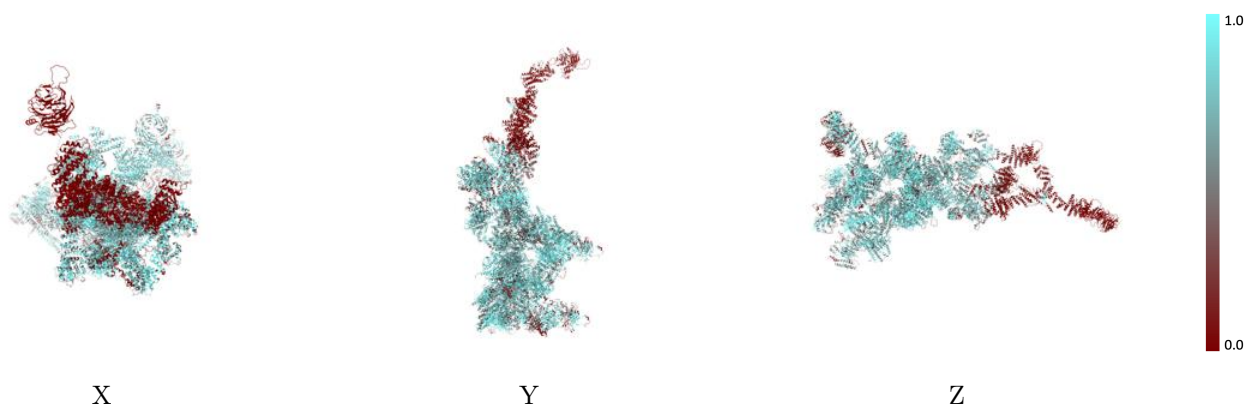
The images above show the 3D surface view of the map at the recommended contour level 0.366 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



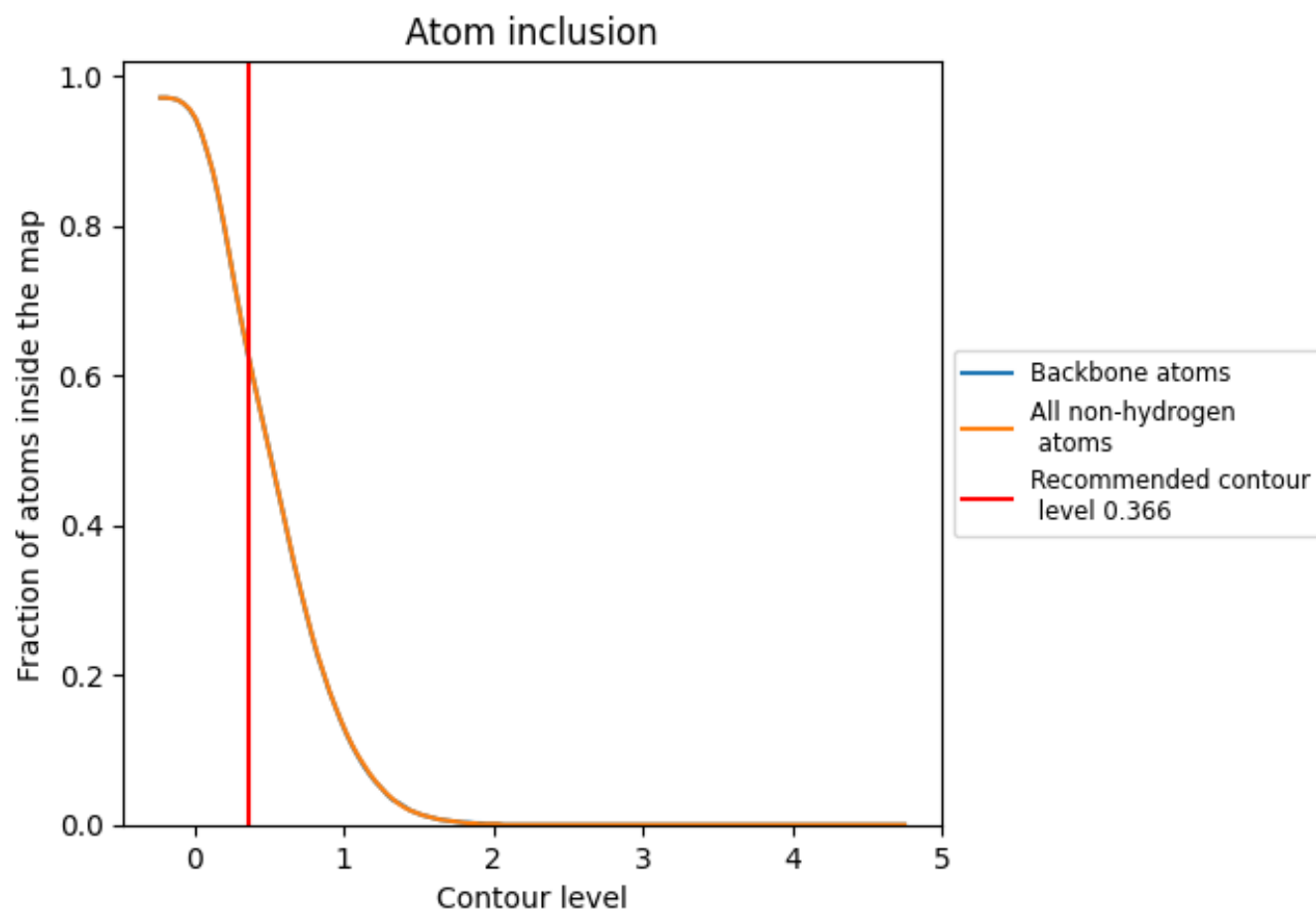
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.366).

9.4 Atom inclusion ⓘ



At the recommended contour level, 62% of all backbone atoms, 62% 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 (0.366) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6220	 0.0290
A	 0.6040	 -0.0080
B	 0.3250	 -0.0010
C	 0.7390	 0.0430
D	 0.8670	 0.0250
E	 0.8310	 0.0590
F	 0.7000	 0.0550
G	 0.8470	 0.0510
H	 0.6750	 0.0520
I	 0.2370	 0.0510
L	 0.7360	 0.0390
M	 0.7050	 0.0300
N	 0.7150	 0.0430
O	 0.6410	 0.0060
P	 0.2040	 0.0450
Q	 0.6770	 0.0090
R	 0.7800	 0.0310
S	 0.6600	 0.0230
T	 0.6100	 0.0250
U	 0.8410	 0.0100
a	 0.7140	 -0.0090
b	 0.8660	 0.0210
c	 0.7180	 0.0410
d	 0.7220	 0.0360
e	 0.7790	 0.0410
f	 0.7050	 0.0480
g	 0.8340	 0.0730
h	 0.1750	 0.0450
i	 0.0050	 0.0110
l	 0.7800	 0.0320
r	 0.6060	 0.0290
s	 0.5100	 -0.0110
t	 0.4400	 -0.0510

