



Full wwPDB EM Validation Report ⓘ

Mar 29, 2026 – 01:58 PM UTC

PDB ID : 5U0S / pdb_00005u0s
EMDB ID : EMD-8480
Title : Cryo-EM structure of the Mediator-RNAPII complex
Authors : Tsai, K.-L.; Yu, X.; Gopalan, S.; Chao, T.-C.; Zhang, Y.; Florens, L.; Washburn, M.P.; Murakami, K.; Conaway, R.C.; Conaway, J.W.; Asturias, F.
Deposited on : 2016-11-26
Resolution : 7.80 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

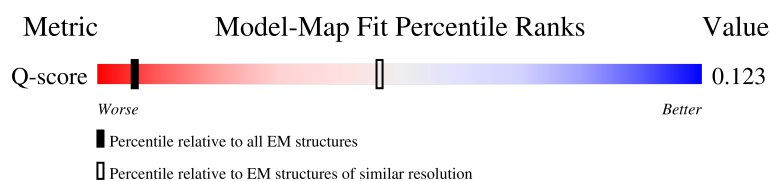
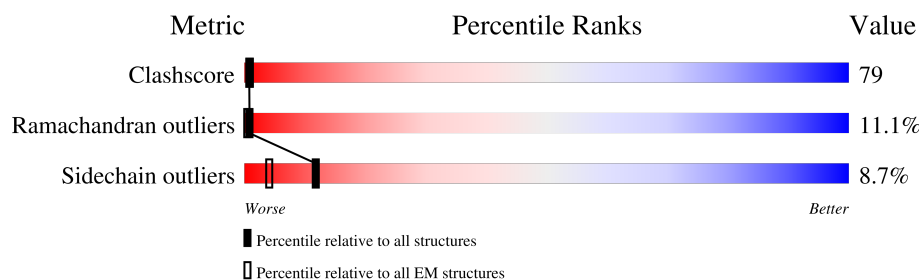
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 7.80 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	370 (7.30 - 8.30)

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	F	216	
2	H	200	
3	Q	545	
4	R	207	

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Mol	Chain	Length	Quality of chain
5	T	193	
6	K	116	
7	V	136	
8	N	931	
9	D	239	
10	G	376	
11	U	138	
12	3	139	
13	2	273	
14	I	121	
15	S	139	
16	J	132	
17	a	1752	
18	b	1210	
19	c	297	
20	d	135	
21	e	210	
22	f	142	
23	g	172	
24	h	125	
25	i	113	
26	j	71	
27	k	123	
28	l	63	

2 Entry composition

There are 28 unique types of molecules in this entry. The entry contains 51548 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Mediator complex subunit 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	F	188	Total	C	N	O	S	0	0
			1534	979	258	288	9		

- Molecule 2 is a protein called Mediator complex subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	H	182	Total	C	N	O	S	0	0
			1493	941	257	292	3		

- Molecule 3 is a protein called Mediator complex subunit 17.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Q	500	Total	C	N	O	S	0	0
			3787	2393	651	725	18		

- Molecule 4 is a protein called Mediator complex subunit 18.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	R	207	Total	C	N	O	S	0	0
			1694	1082	288	316	8		

- Molecule 5 is a protein called Mediator complex subunit 20.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	T	176	Total	C	N	O	S	0	0
			1435	938	234	258	5		

- Molecule 6 is a protein called Mediator complex subunit 11.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	K	98	Total	C	N	O	S	0	0
			769	486	128	154	1		

- Molecule 7 is a protein called Mediator complex subunit 22.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	V	118	Total	C	N	O	S	0	0
			949	599	161	187	2		

- Molecule 8 is a protein called Mediator complex subunit 14.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	N	520	Total	C	N	O	S	0	0
			3887	2498	683	698	8		

- Molecule 9 is a protein called Mediator complex subunit 4.

Mol	Chain	Residues	Atoms				AltConf	Trace
9	D	96	Total	C	N	O	0	0
			480	288	96	96		

- Molecule 10 is a protein called Mediator complex subunit 7.

Mol	Chain	Residues	Atoms				AltConf	Trace
10	G	194	Total	C	N	O	0	0
			965	577	194	194		

- Molecule 11 is a protein called Mediator complex subunit 21.

Mol	Chain	Residues	Atoms				AltConf	Trace
11	U	122	Total	C	N	O	0	0
			608	364	122	122		

- Molecule 12 is a protein called Mediator complex subunit 31.

Mol	Chain	Residues	Atoms				AltConf	Trace
12	3	103	Total	C	N	O	0	0
			515	309	103	103		

- Molecule 13 is a protein called Mediator complex subunit 27.

Mol	Chain	Residues	Atoms				AltConf	Trace
13	2	78	Total	C	N	O	0	0
			388	232	78	78		

- Molecule 14 is a protein called Mediator complex subunit 9.

Mol	Chain	Residues	Atoms				AltConf	Trace
14	I	75	Total	C	N	O	0	0
			374	224	75	75		

- Molecule 15 is a protein called Mediator complex subunit 19.

Mol	Chain	Residues	Atoms				AltConf	Trace
15	S	122	Total	C	N	O	0	0
			610	366	122	122		

- Molecule 16 is a protein called Mediator complex subunit 10.

Mol	Chain	Residues	Atoms				AltConf	Trace
16	J	131	Total	C	N	O	0	0
			655	393	131	131		

- Molecule 17 is a protein called RNA polymerase II subunit Rpb1.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	a	1490	Total	C	N	O	S	0	0
			11761	7388	2065	2238	70		

- Molecule 18 is a protein called RNA polymerase II subunit Rpb2.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	b	1150	Total	C	N	O	S	0	0
			9180	5772	1630	1716	62		

- Molecule 19 is a protein called RNA polymerase II subunit Rpb3.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	c	263	Total	C	N	O	S	0	0
			2088	1315	355	406	12		

- Molecule 20 is a protein called RNA polymerase II subunit Rpb4.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	d	125	Total	C	N	O	S	0	0
			988	619	166	197	6		

- Molecule 21 is a protein called RNA polymerase II subunit Rpb5.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	e	207	Total	C	N	O	S	0	0
			1663	1050	301	306	6		

- Molecule 22 is a protein called RNA polymerase II subunit Rpb6.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	f	83	Total	C	N	O	S	0	0
			656	416	112	125	3		

- Molecule 23 is a protein called RNA polymerase II subunit Rpb7.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	g	170	Total	C	N	O	S	0	0
			1330	860	217	247	6		

- Molecule 24 is a protein called RNA polymerase II subunit Rpb8.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	h	124	Total	C	N	O	S	0	0
			996	631	167	195	3		

- Molecule 25 is a protein called RNA polymerase II subunit Rpb9.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	i	111	Total	C	N	O	S	0	0
			902	551	164	176	11		

- Molecule 26 is a protein called RNA polymerase II subunit Rpb10.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	j	64	Total	C	N	O	S	0	0
			518	330	87	94	7		

- Molecule 27 is a protein called RNA polymerase II subunit Rpb11.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	k	119	Total	C	N	O	S	0	0
			955	608	159	182	6		

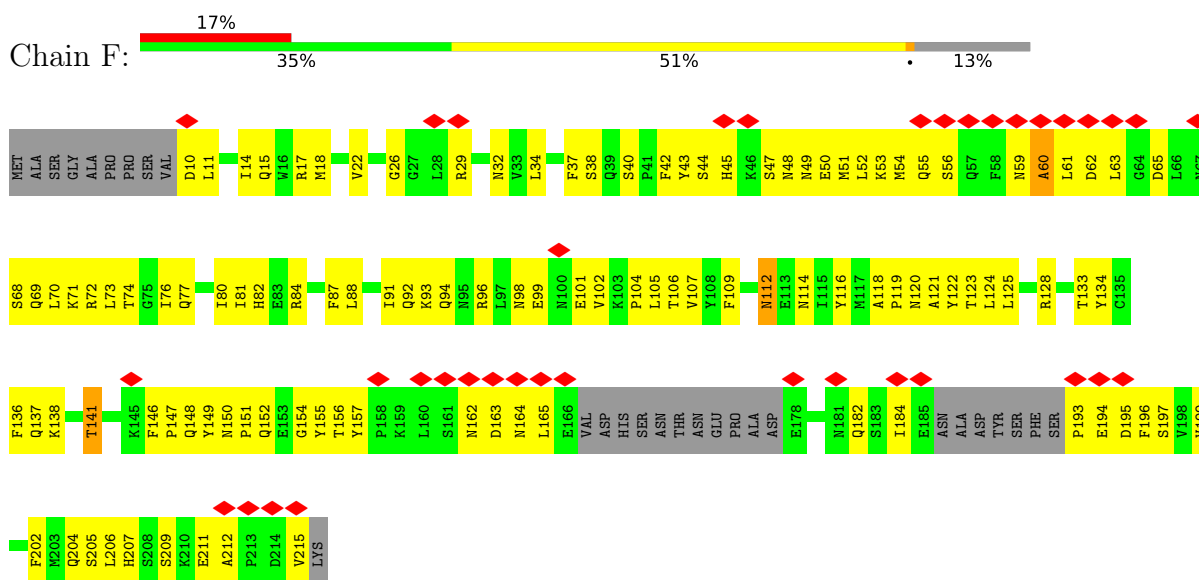
- Molecule 28 is a protein called RNA polymerase II subunit Rpb12.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	1	45	Total	C	N	O	S	0	0
			368	225	74	61	8		

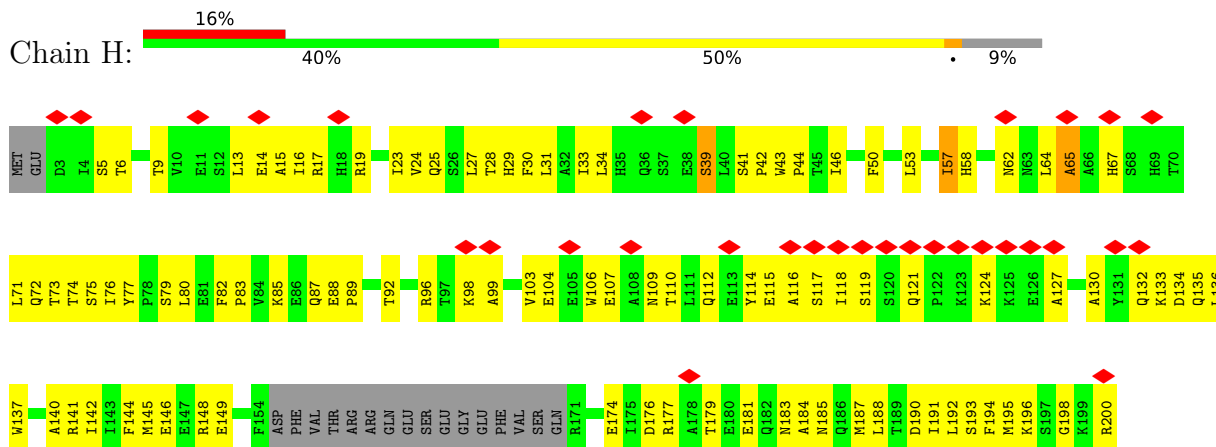
3 Residue-property plots

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

- Molecule 1: Mediator complex subunit 6

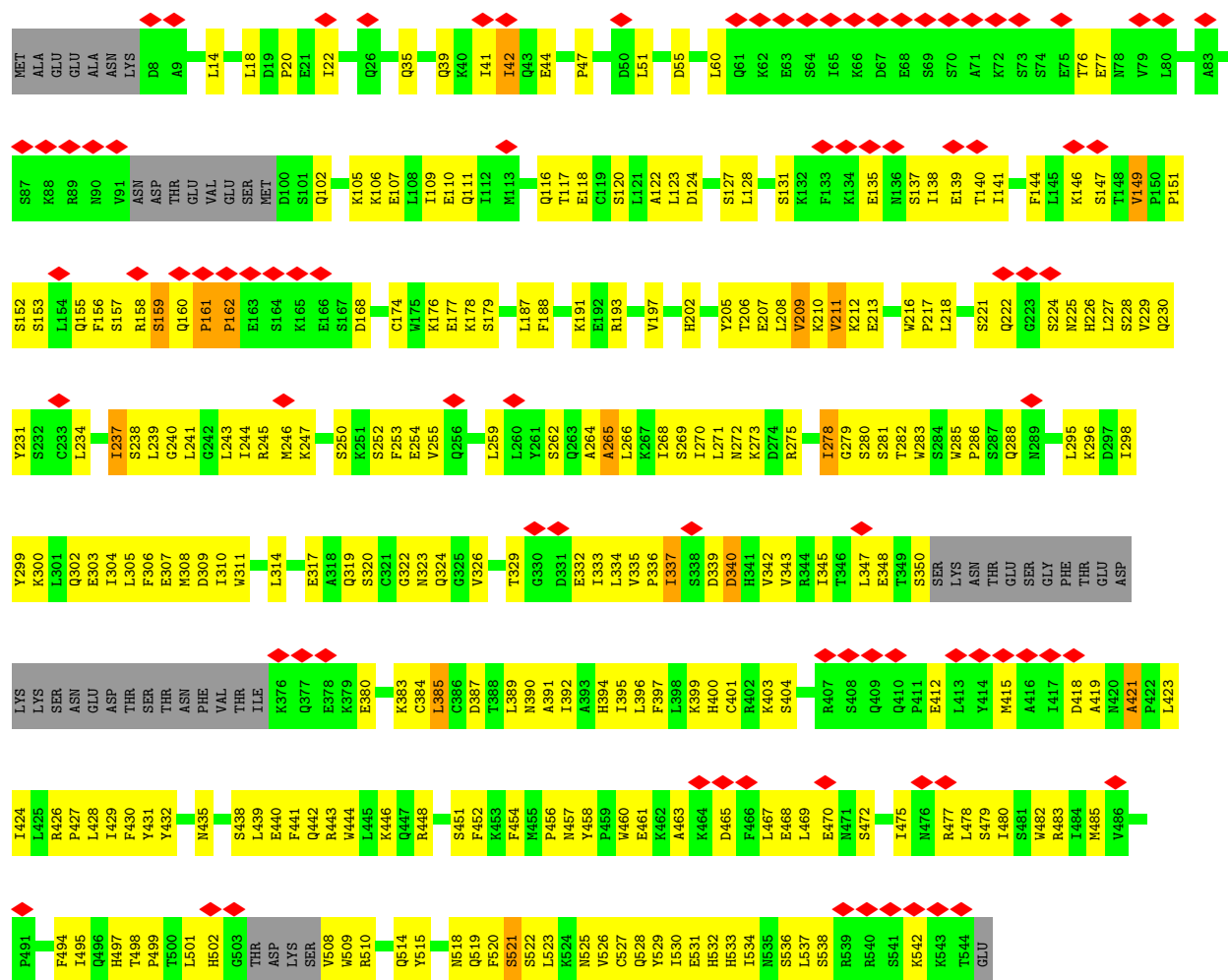


- Molecule 2: Mediator complex subunit 8

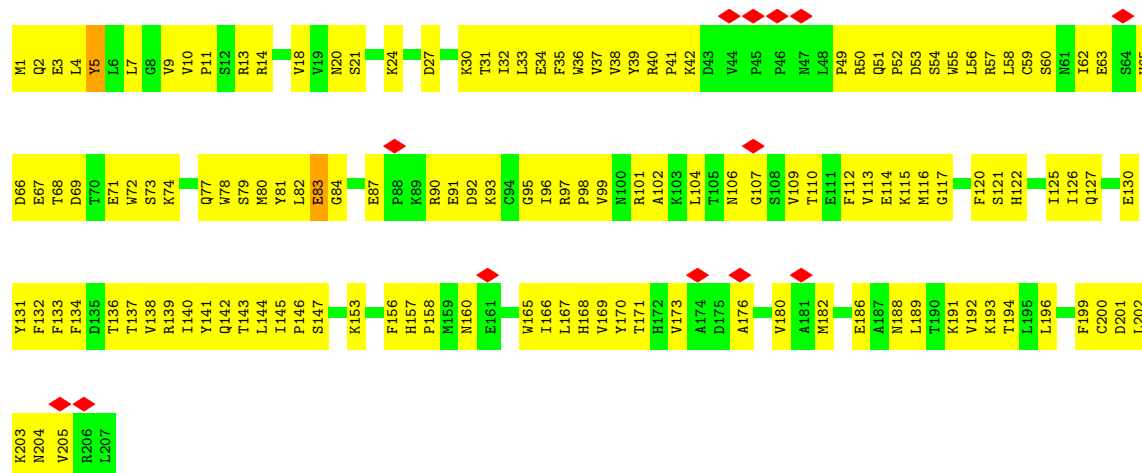


- Molecule 3: Mediator complex subunit 17

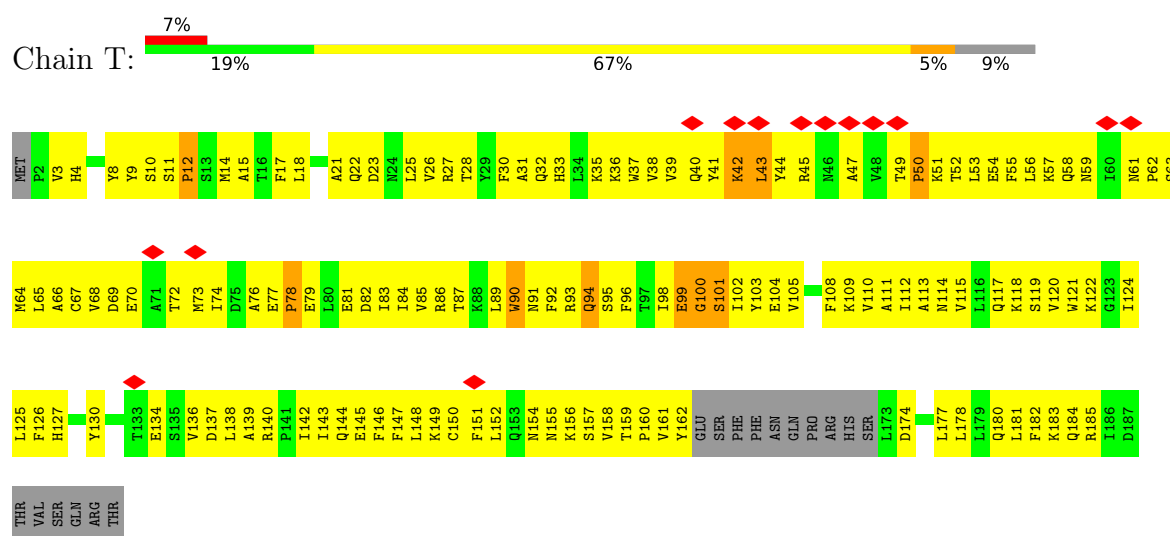




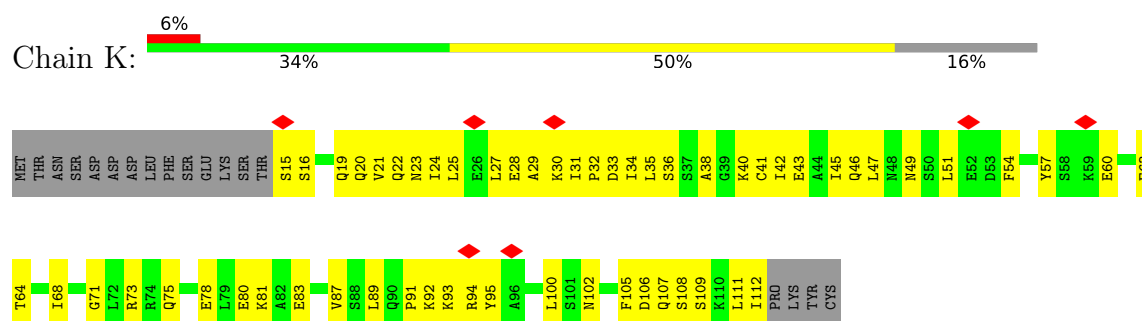
• Molecule 4: Mediator complex subunit 18



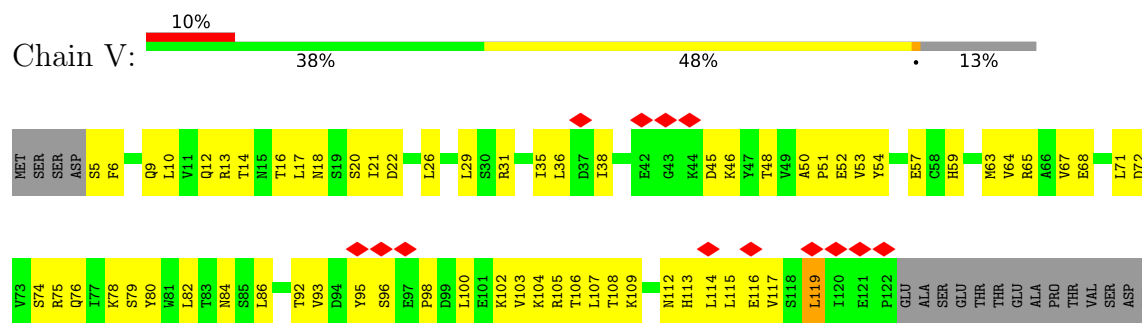
• Molecule 5: Mediator complex subunit 20



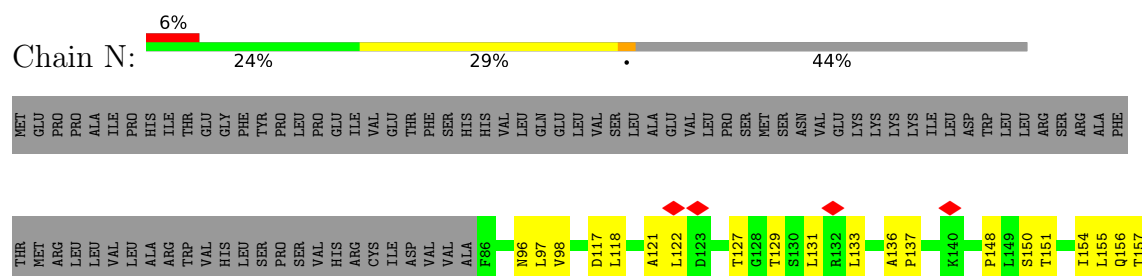
• Molecule 6: Mediator complex subunit 11

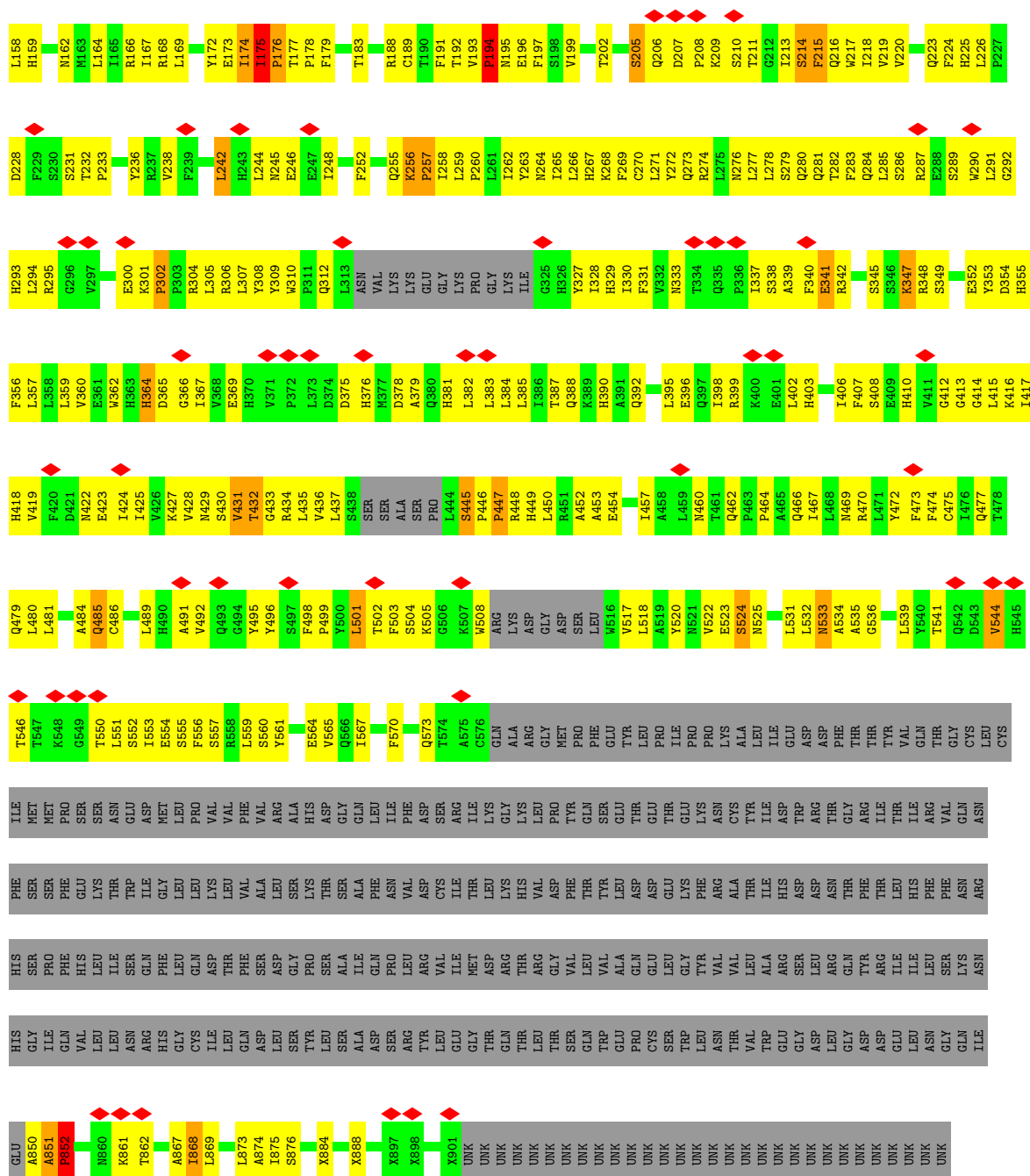


• Molecule 7: Mediator complex subunit 22



• Molecule 8: Mediator complex subunit 14



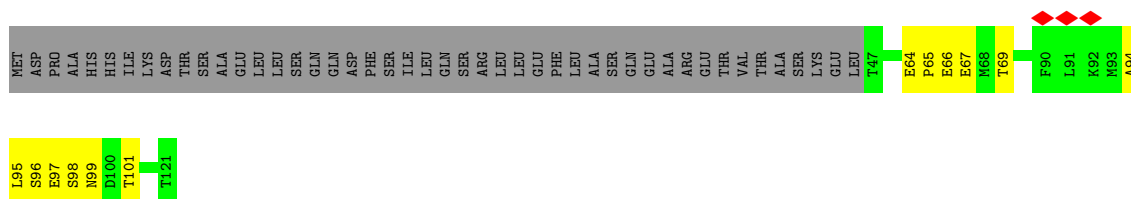


• Molecule 9: Mediator complex subunit 4

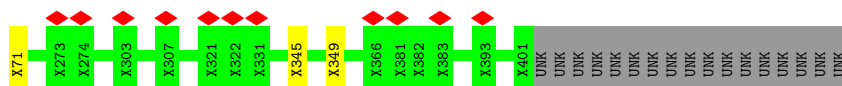
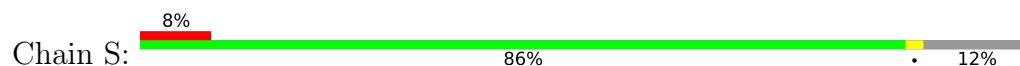
Chain D: 38% 60%



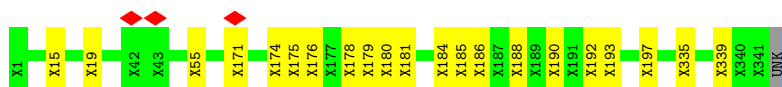
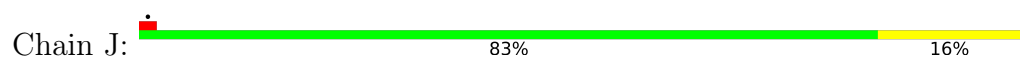
- Molecule 14: Mediator complex subunit 9



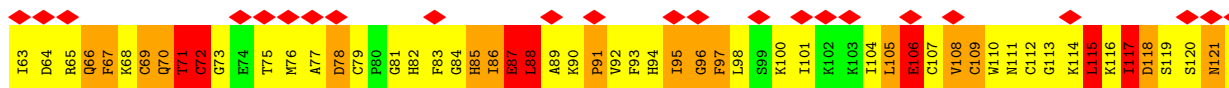
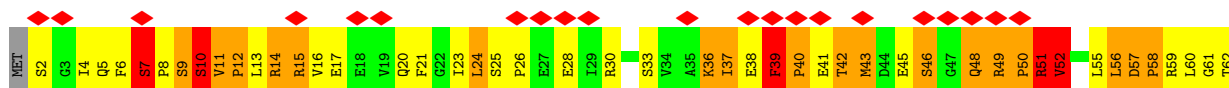
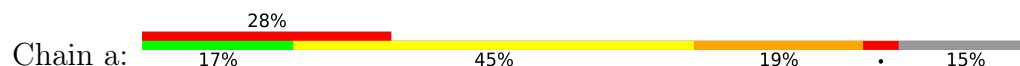
- Molecule 15: Mediator complex subunit 19

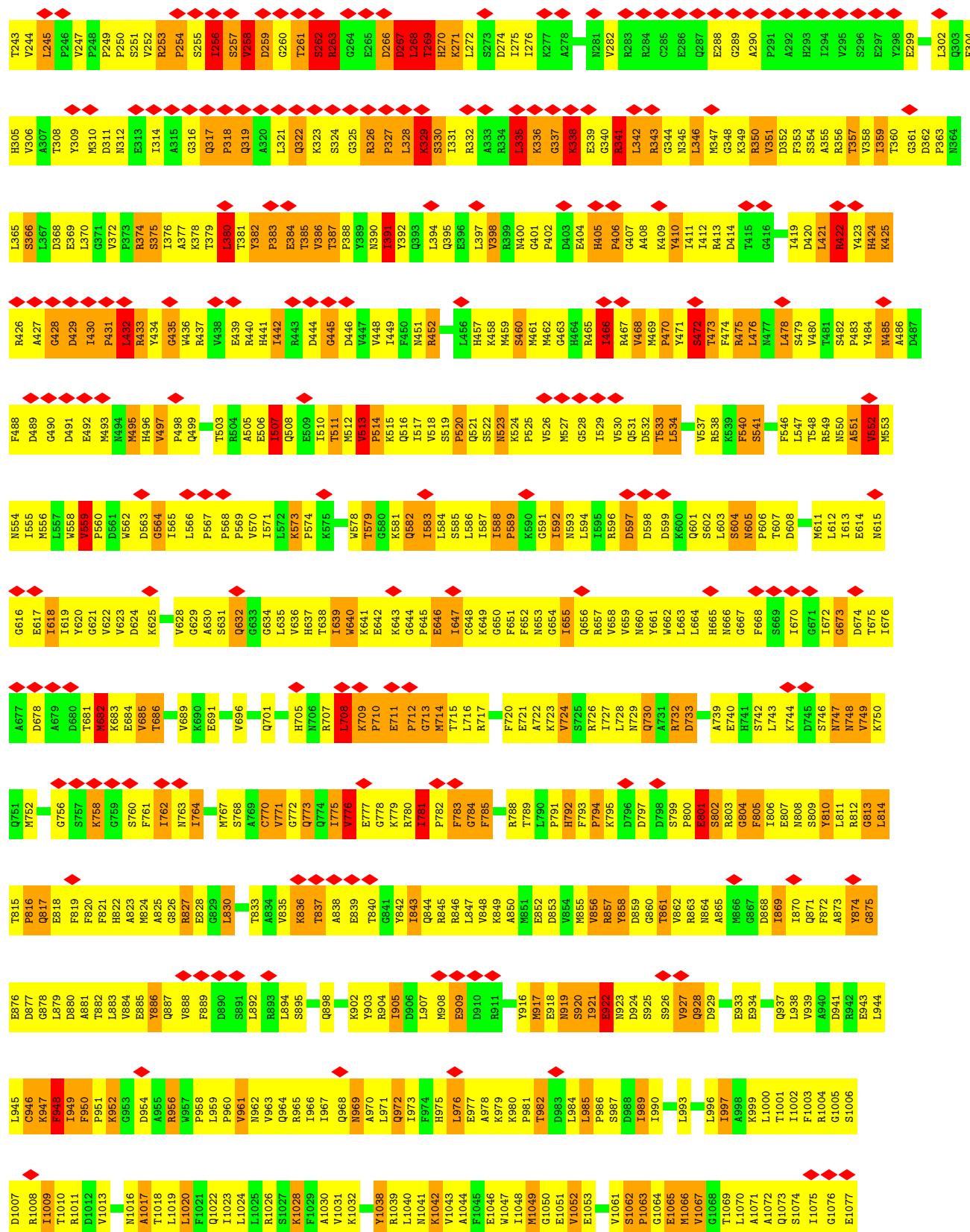


- Molecule 16: Mediator complex subunit 10

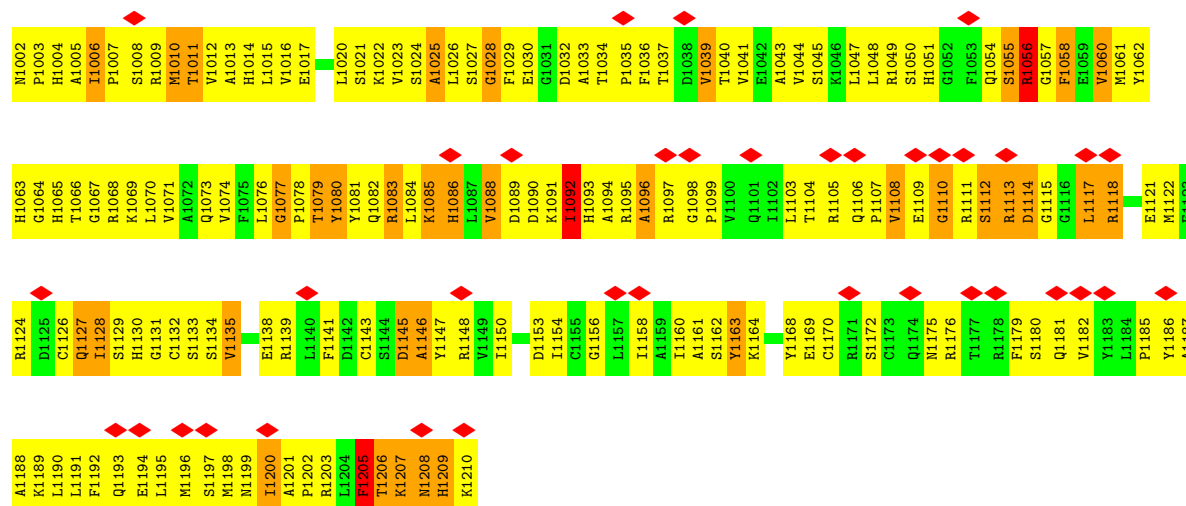


- Molecule 17: RNA polymerase II subunit Rpb1

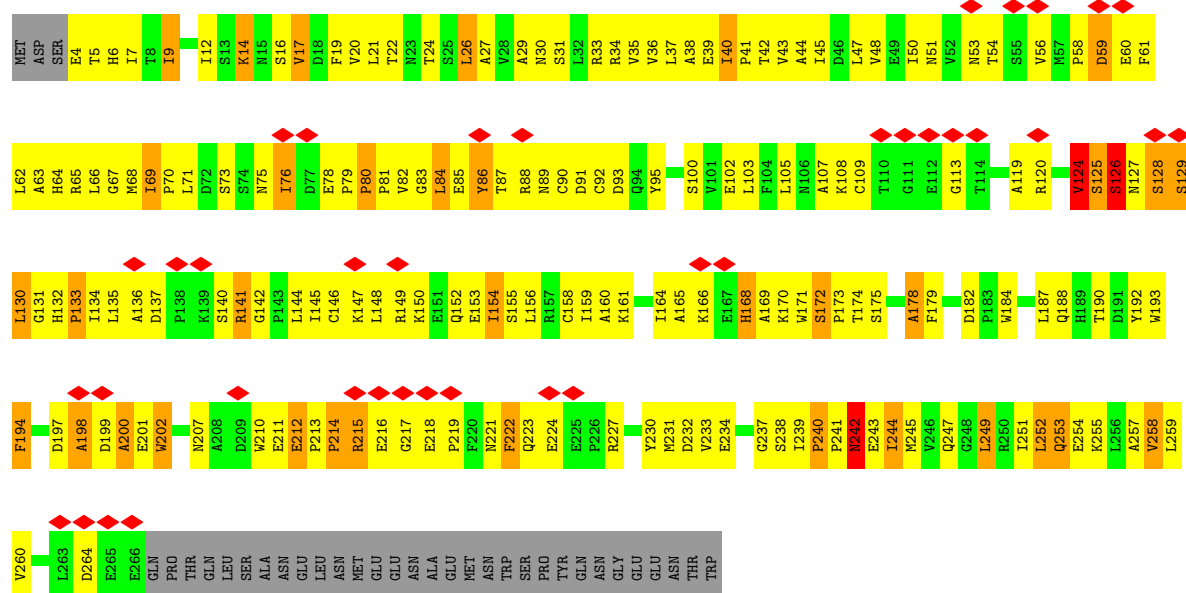




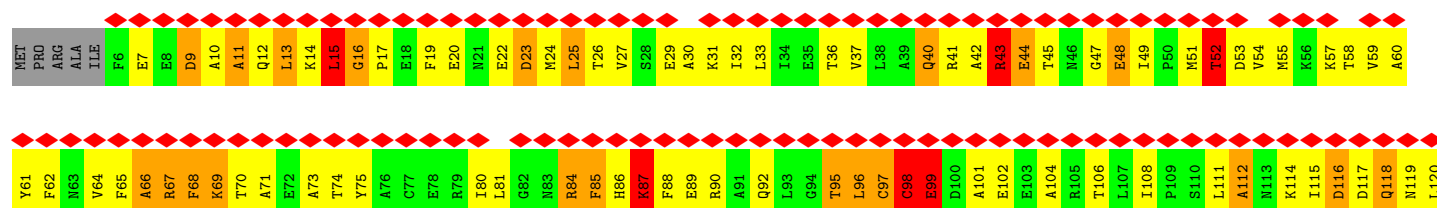
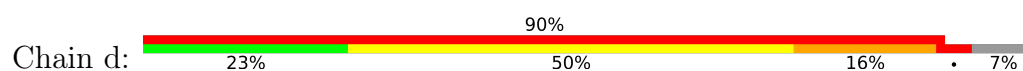
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A942	T878	I816	N751	D627	P561	R498	M437	D314	Y187	MET
T943	D879	L817	Q752	N628	N562	Q499	I438	I315	F188	VAL
T945	D880	C818	S753	N629	N563	L500	T439	A316	I189	ALA
N946	K881	Y819	P754	P630	T564	H501	T440	L317	I190	ALA
Q947	S820	S820	N755	N631	K565	N502	N441	D318	N191	ASP
E948	G821	E695	N756	S632	V566	T503	G442	Y319	G192	SER
D949	Y822	A696	T757	E633	F567	H504	L443	D319	S193	ASN
L950	D885	N823	Y758	R634	V568	H505	S446	K322	E194	VAL
K951	G886	Q824	Q759	R635	V569	H507	L447	G321	K196	PRO
N952	L887	E825	S760	R636	N569	G506	R448	R323	E199	GLY
F953	L888	D826	A761	E637	V572	N507	A449	G324	I197	GLY
G954	A889	S827	H762	E638	L573	C509	T443	S325	I198	GLU
N955	D890	I828	Q763	L639	G574	P510	G450	G326	Q200	GLU
R956	T891	M830	Y704	C638	V575	A511	N451	T326	E201	TRP
N957	Q831	M831	K764	L640	H576	E512	N452	T327	R263	VAL
R958	Q832	Q831	M767	R641	R577	T513	G453	G328	R264	GLU
S959	Q833	Q832	L771	K642	D578	P514	Q455	V329	S203	GLU
T960	S834	I835	L772	E643	P579	E515	K456	T330	A204	GLU
N962	S835	T836	Q701	E644	A580	G516	R457	R331	A205	ALA
F963	L837	D838	A702	L645	H581	Q517	S458	E332	I207	ALA
Q964	T839	E839	Y703	Q646	L582	A518	N459	L394	I208	ALA
T965	Q840	M840	Y704	Q647	T583	C519	V460	G333	V208	ALA
G966	R841	T841	Q775	L648	E584	G520	N461	R334	Q209	ALA
D967	S842	D842	Q776	D651	T585	V522	R462	L335	V210	ALA
F969	T843	E843	Q777	K652	L586	K523	V463	K336	F211	ALA
A970	R844	T844	Q778	D653	R587	N524	G464	Y337	K212	ALA
S971	R845	E845	Q779	D654	S588	L525	V465	A338	K213	ALA
D972	T846	D846	Q780	R655	R590	S526	N466	R339	A214	ALA
Q973	R847	E847	Q781	Y655	R591	L527	Q467	L402	A215	ALA
N974	T848	T848	Q782	D656	H592	N528	V468	D341	I219	ALA
G975	R849	E849	Q783	L657	L593	S529	N470	L342	I220	ALA
T976	Q850	D850	Q784	D658	I601	Y530	R471	Q343	P217	ALA
Q977	S851	E851	Q785	P659	V602	V531	T472	K344	P218	ALA
N978	T852	D852	Q786	E660	R603	S532	T473	E345	I219	ALA
F979	R853	E853	Q787	D661	D604	V533	F474	L346	A220	ALA
S980	K854	E854	Q788	D662	L605	G534	A475	L347	Y221	ALA
T981	I855	E855	Q789	R663	R606	S535	S476	P348	V222	ALA
Q982	R856	D856	Q790	D664	R607	P536	T477	D290	E224	ALA
N983	T857	E857	Q791	G664	E607	S537	L478	P291	I225	ALA
F984	S858	D858	Q792	T666	V608	A538	S479	N292	R226	ALA
Q985	E861	E861	Q793	A667	L610	P539	L481	D293	G168	ALA
N986	R862	E862	Q794	L668	R611	I540	R482	F294	S227	ALA
T987	F863	E863	Q795	V669	L612	T541	R483	Q295	A228	ALA
S988	L864	E864	Q796	S670	F613	E542	T484	N296	E229	ALA
Q989	E865	E865	Q797	D672	T614	F543	N485	E298	E230	ALA
N990	R866	E866	Q798	L673	D615	L544	T486	M299	R231	ALA
F991	T867	E867	Q799	L674	A616	E545	P487	N300	G232	ALA
Q992	R868	E868	Q800	E675	G617	E546	L488	K301	S233	ALA
N993	S869	E869	Q801	L677	R618	E547	G489	P302	R234	ALA
T994	T870	E870	Q802	D678	C620	E550	R490	C303	L235	ALA
S995	R871	E871	Q803	E681	R621	T551	D491	G365	I236	ALA
Q996	L872	E872	Q804	F680	P622	E552	G492	E306	S237	ALA
N997	T873	E873	Q805	E682	L623	E553	K493	A307	S238	ALA
F998	R874	E874	Q806	E683	F624	E554	L494	F308	M239	ALA
Q999	S875	E875	Q807	T684	L625	E555	A495	R370	Q240	ALA
N1000	T876	E876	Q808	V685		E556	K496	M371	I241	ALA
T1001	R877	E877	Q809	M686		P557		L372	K242	ALA
								C374	M244	ALA
									A245	ALA



• Molecule 19: RNA polymerase II subunit Rpb3

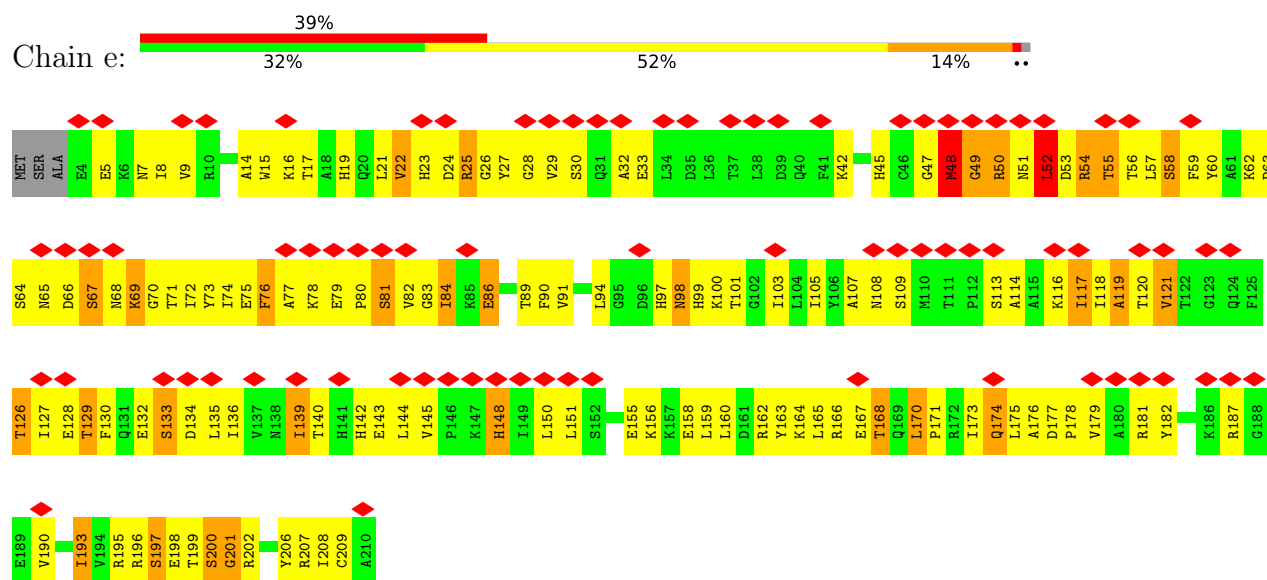


• Molecule 20: RNA polymerase II subunit Rpb4

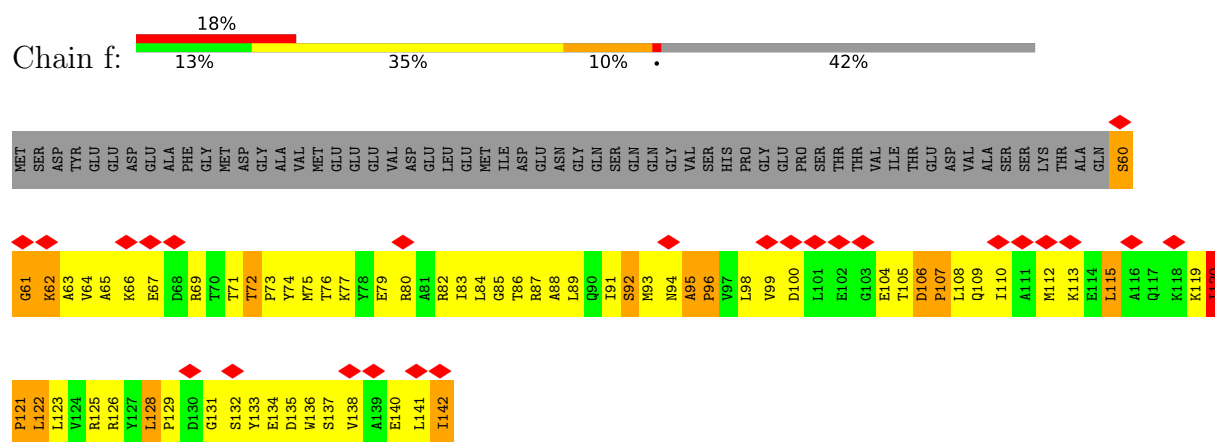




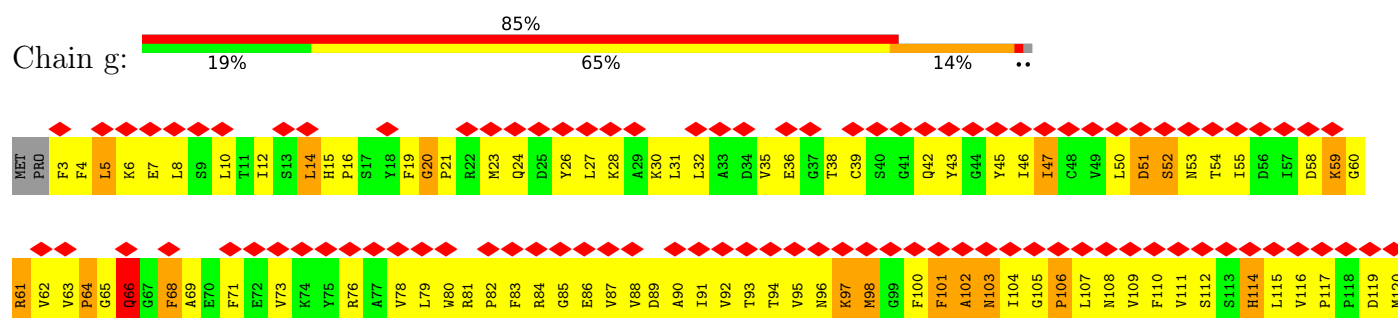
• Molecule 21: RNA polymerase II subunit Rpb5



• Molecule 22: RNA polymerase II subunit Rpb6

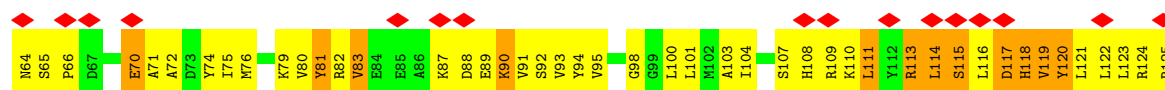
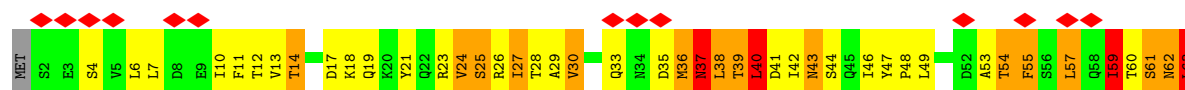


• Molecule 23: RNA polymerase II subunit Rpb7

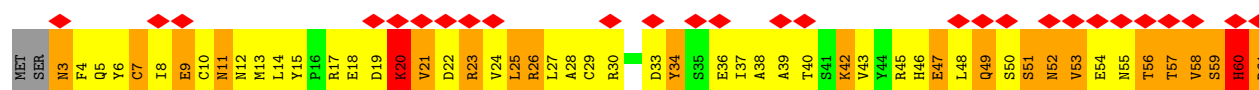




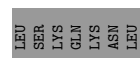
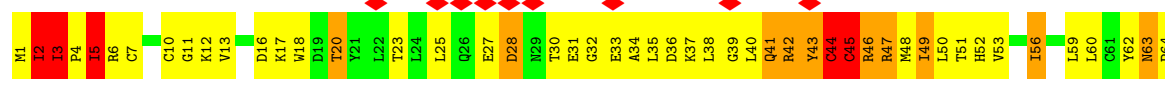
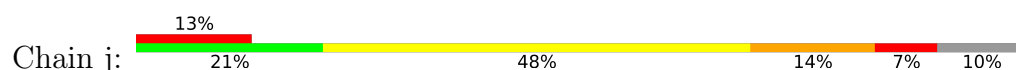
• Molecule 24: RNA polymerase II subunit Rpb8



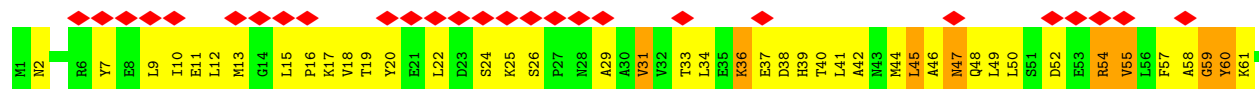
• Molecule 25: RNA polymerase II subunit Rpb9



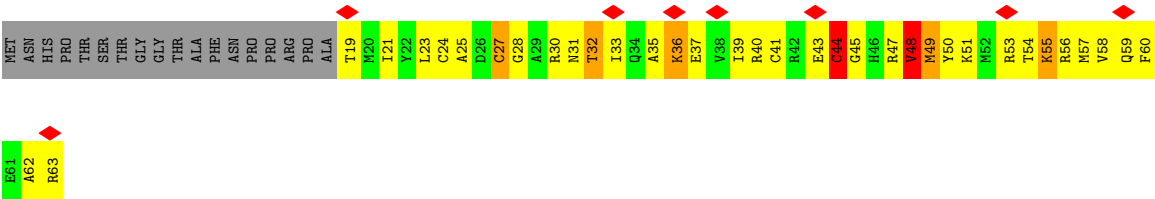
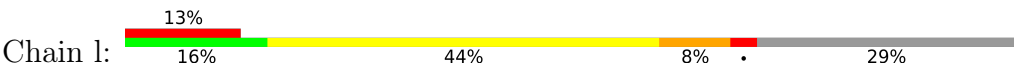
• Molecule 26: RNA polymerase II subunit Rpb10



• Molecule 27: RNA polymerase II subunit Rpb11



• Molecule 28: RNA polymerase II subunit Rpb12



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	3862	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	9.6	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	22500	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.229	Depositor
Minimum map value	-0.114	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.015	Depositor
Recommended contour level	0.08	Depositor
Map size (Å)	461.12, 461.12, 461.12	wwPDB
Map dimensions	176, 176, 176	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.62, 2.62, 2.62	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	F	0.36	0/1570	0.82	2/2126 (0.1%)
2	H	0.38	0/1523	0.82	0/2063
3	Q	0.39	0/3856	0.87	11/5223 (0.2%)
4	R	0.36	0/1739	0.86	4/2362 (0.2%)
5	T	0.46	2/1469 (0.1%)	1.17	12/1992 (0.6%)
6	K	0.41	0/778	0.83	0/1049
7	V	0.37	0/963	0.76	1/1309 (0.1%)
8	N	0.40	0/3865	0.97	15/5275 (0.3%)
10	G	0.50	0/961	1.07	5/1336 (0.4%)
11	U	0.44	0/606	0.95	1/844 (0.1%)
12	3	0.42	0/514	1.05	4/718 (0.6%)
13	2	0.37	0/382	0.91	0/524
14	I	0.42	0/373	0.90	0/520
17	a	0.54	3/11983 (0.0%)	0.87	37/16197 (0.2%)
18	b	0.58	3/9360 (0.0%)	0.91	36/12643 (0.3%)
19	c	0.59	0/2135	0.95	10/2904 (0.3%)
20	d	0.30	0/1000	0.65	1/1348 (0.1%)
21	e	0.50	0/1695	0.90	7/2287 (0.3%)
22	f	0.68	0/666	1.12	10/901 (1.1%)
23	g	0.33	0/1361	0.78	2/1847 (0.1%)
24	h	0.53	0/1010	0.88	2/1363 (0.1%)
25	i	0.26	0/921	0.53	0/1246
26	j	0.78	0/526	1.13	4/709 (0.6%)
27	k	0.59	0/972	0.90	0/1317
28	l	0.46	0/371	0.84	0/491
All	All	0.50	8/50599 (0.0%)	0.90	164/68594 (0.2%)

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.

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Mol	Chain	#Chirality outliers	#Planarity outliers
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Mol	Chain	#Chirality outliers	#Planarity outliers
8	N	0	2

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
17	a	346	LEU	C-N	-7.42	1.23	1.33
18	b	1150	ILE	C-N	6.76	1.43	1.33
18	b	480	HIS	C-N	6.41	1.42	1.33
5	T	101	SER	C-N	6.28	1.41	1.33
18	b	1011	THR	CA-CB	-5.72	1.48	1.53
5	T	100	GLY	N-CA	5.48	1.50	1.45
17	a	1394	GLY	C-N	-5.38	1.26	1.33
17	a	636	VAL	CA-CB	-5.01	1.48	1.54

All (164) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	T	100	GLY	CA-C-N	17.75	153.64	121.70
5	T	100	GLY	C-N-CA	17.75	153.64	121.70
5	T	100	GLY	CA-C-O	-10.46	110.37	121.35
17	a	997	ILE	N-CA-C	-10.32	102.64	112.96
8	N	445	SER	CA-C-N	10.19	127.00	119.66
8	N	445	SER	C-N-CA	10.19	127.00	119.66
26	j	45	CYS	N-CA-C	-9.99	101.43	114.31
21	e	201	GLY	N-CA-C	9.79	121.45	111.56
5	T	101	SER	O-C-N	-9.73	107.42	123.00
8	N	175	ILE	C-N-CD	-9.20	100.37	120.60
8	N	194	PRO	CA-N-CD	-9.19	99.14	112.00
10	G	65	LYS	CA-C-N	8.98	129.03	119.78
10	G	65	LYS	C-N-CA	8.98	129.03	119.78
8	N	175	ILE	CA-C-N	8.36	147.05	127.00
8	N	175	ILE	C-N-CA	8.36	147.05	127.00
17	a	568	PRO	CA-C-N	8.23	128.30	119.90
17	a	568	PRO	C-N-CA	8.23	128.30	119.90
3	Q	20	PRO	N-CA-CB	8.23	111.02	103.20
8	N	148	PRO	N-CA-CB	8.18	110.59	103.31
17	a	387	THR	CA-C-N	7.70	127.88	119.87
17	a	387	THR	C-N-CA	7.70	127.88	119.87
4	R	153	LYS	CA-C-N	7.62	128.22	120.38
4	R	153	LYS	C-N-CA	7.62	128.22	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	b	347	LEU	CA-C-N	7.50	128.17	119.47
18	b	347	LEU	C-N-CA	7.50	128.17	119.47
5	T	100	GLY	O-C-N	-7.36	116.85	123.92
17	a	972	GLN	N-CA-C	-7.25	104.29	113.43
18	b	1034	THR	CA-C-N	7.07	128.68	119.84
18	b	1034	THR	C-N-CA	7.07	128.68	119.84
3	Q	421	ALA	CA-C-N	7.06	127.05	119.28
3	Q	421	ALA	C-N-CA	7.06	127.05	119.28
17	a	825	ALA	N-CA-C	-6.98	103.75	112.90
19	c	142	GLY	CA-C-N	6.83	126.80	119.76
19	c	142	GLY	C-N-CA	6.83	126.80	119.76
18	b	808	ALA	N-CA-C	-6.78	105.16	113.50
26	j	47	ARG	N-CA-C	-6.72	105.40	112.93
8	N	852	PRO	N-CA-CB	6.72	109.99	102.60
17	a	756	GLY	N-CA-C	-6.68	105.83	114.85
3	Q	47	PRO	N-CA-CB	6.60	110.51	103.52
18	b	1150	ILE	O-C-N	-6.50	115.50	123.10
17	a	685	VAL	CB-CA-C	-6.48	103.38	111.94
17	a	366	SER	N-CA-C	-6.44	102.49	110.41
4	R	5	TYR	N-CA-C	6.43	118.63	108.79
12	3	11	PRO	N-CA-CB	6.43	110.00	103.25
21	e	16	LYS	N-CA-C	-6.43	105.07	113.17
10	G	15	PRO	N-CA-C	6.41	118.52	110.70
8	N	137	PRO	N-CA-CB	6.38	110.28	103.39
17	a	386	VAL	CB-CA-C	-6.25	105.17	111.80
18	b	745	ILE	N-CA-C	6.21	114.81	107.73
18	b	1028	GLY	N-CA-C	-6.19	107.16	115.21
21	e	121	VAL	N-CA-C	-6.19	106.96	112.90
17	a	1445	GLY	CA-C-N	-6.18	113.96	123.17
17	a	1445	GLY	C-N-CA	-6.18	113.96	123.17
17	a	874	TYR	N-CA-C	-6.17	104.36	113.61
3	Q	149	VAL	CA-C-N	6.15	124.15	119.66
3	Q	149	VAL	C-N-CA	6.15	124.15	119.66
8	N	524	SER	N-CA-C	6.10	118.73	111.71
3	Q	209	VAL	N-CA-C	-6.10	104.56	110.72
18	b	1077	GLY	CA-C-N	6.09	127.45	119.84
18	b	1077	GLY	C-N-CA	6.09	127.45	119.84
18	b	1150	ILE	CA-C-N	6.09	130.96	123.10
18	b	1150	ILE	C-N-CA	6.09	130.96	123.10
22	f	106	ASP	CA-C-N	6.08	127.44	119.84
22	f	106	ASP	C-N-CA	6.08	127.44	119.84
18	b	1024	SER	N-CA-C	-6.07	106.54	112.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	f	120	ILE	CA-C-N	6.06	127.41	119.84
22	f	120	ILE	C-N-CA	6.06	127.41	119.84
18	b	736	MET	N-CA-C	-6.05	105.54	113.17
8	N	533	ASN	CA-C-N	5.97	132.44	121.70
8	N	533	ASN	C-N-CA	5.97	132.44	121.70
18	b	86	ARG	CA-C-N	5.91	126.83	119.98
18	b	86	ARG	C-N-CA	5.91	126.83	119.98
12	3	81	PRO	N-CA-C	-5.90	105.69	113.65
17	a	982	THR	N-CA-C	5.88	118.24	109.25
18	b	469	LEU	N-CA-C	5.84	117.32	111.07
17	a	1017	ALA	N-CA-C	-5.84	105.74	112.92
18	b	480	HIS	O-C-N	-5.82	115.13	122.17
5	T	99	GLU	O-C-N	-5.80	115.64	123.19
8	N	868	ILE	N-CA-C	5.79	116.53	110.62
17	a	1435	MET	N-CA-C	-5.79	106.75	113.88
17	a	830	LEU	N-CA-C	-5.79	106.19	113.72
18	b	1092	ILE	CB-CA-C	-5.78	103.30	111.28
1	F	18	MET	CA-C-N	5.76	125.62	119.28
1	F	18	MET	C-N-CA	5.76	125.62	119.28
20	d	52	THR	CB-CA-C	-5.71	109.00	115.79
5	T	47	ALA	CB-CA-C	-5.68	110.05	116.63
26	j	3	ILE	CA-C-N	5.67	125.34	119.05
26	j	3	ILE	C-N-CA	5.67	125.34	119.05
17	a	1370	ASN	N-CA-C	5.65	117.63	108.41
18	b	1127	GLN	N-CA-C	-5.65	105.02	111.07
18	b	447	LEU	N-CA-C	-5.63	106.08	113.12
10	G	15	PRO	CA-C-N	-5.62	114.60	120.38
10	G	15	PRO	C-N-CA	-5.62	114.60	120.38
17	a	682	MET	N-CA-C	-5.58	106.63	113.50
17	a	1345	LEU	CB-CA-C	-5.58	108.32	116.53
21	e	170	LEU	CA-C-N	5.56	126.78	119.84
21	e	170	LEU	C-N-CA	5.56	126.78	119.84
17	a	1361	VAL	CB-CA-C	-5.55	105.17	111.55
21	e	173	ILE	CB-CA-C	-5.55	102.57	110.12
17	a	520	PRO	N-CA-C	-5.54	106.94	114.80
17	a	472	SER	N-CA-C	5.53	120.24	112.72
18	b	992	ALA	N-CA-C	-5.51	95.58	111.00
5	T	78	PRO	CA-C-O	-5.50	115.08	121.34
7	V	119	LEU	CB-CA-C	-5.48	110.24	116.54
18	b	155	ILE	CA-C-N	5.43	126.91	120.23
18	b	155	ILE	C-N-CA	5.43	126.91	120.23
5	T	99	GLU	N-CA-C	5.43	118.41	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	a	792	HIS	N-CA-C	-5.40	105.39	112.41
12	3	59	GLU	CA-C-N	5.37	126.56	119.84
12	3	59	GLU	C-N-CA	5.37	126.56	119.84
3	Q	159	SER	N-CA-C	5.36	116.78	107.93
18	b	34	GLN	CA-C-N	5.35	131.33	121.70
18	b	34	GLN	C-N-CA	5.35	131.33	121.70
3	Q	213	GLU	N-CA-C	-5.34	106.72	113.18
5	T	78	PRO	CA-C-N	5.33	131.29	121.70
5	T	78	PRO	C-N-CA	5.33	131.29	121.70
18	b	1000	ILE	N-CA-C	5.33	115.72	107.78
17	a	1380	VAL	CB-CA-C	-5.32	104.87	112.22
19	c	178	ALA	N-CA-C	5.32	116.82	109.54
17	a	541	SER	N-CA-C	-5.26	106.54	113.17
18	b	1060	VAL	CB-CA-C	-5.25	105.81	111.59
18	b	985	HIS	N-CA-C	5.24	116.99	111.28
3	Q	385	LEU	N-CA-C	-5.23	105.58	111.28
17	a	564	GLY	N-CA-C	-5.23	108.47	114.69
21	e	126	THR	N-CA-C	5.23	117.02	108.76
22	f	85	GLY	N-CA-C	-5.20	106.11	112.77
4	R	134	PHE	CB-CA-C	-5.20	110.60	116.63
19	c	223	GLN	N-CA-C	-5.20	107.00	113.19
19	c	202	TRP	CA-C-N	5.18	125.34	119.90
19	c	202	TRP	C-N-CA	5.18	125.34	119.90
23	g	165	LYS	N-CA-C	5.18	117.83	111.82
23	g	5	LEU	N-CA-C	-5.18	98.96	108.02
17	a	497	VAL	CA-C-N	-5.18	115.39	120.52
17	a	497	VAL	C-N-CA	-5.18	115.39	120.52
18	b	928	THR	CA-C-N	5.17	126.31	119.84
18	b	928	THR	C-N-CA	5.17	126.31	119.84
11	U	128	PHE	N-CA-C	-5.16	106.93	113.18
17	a	1445	GLY	O-C-N	5.16	129.41	122.70
5	T	110	VAL	N-CA-C	5.16	115.00	107.37
18	b	579	PRO	N-CA-C	-5.16	106.81	113.57
8	N	498	PHE	CA-C-N	5.13	124.92	119.28
8	N	498	PHE	C-N-CA	5.13	124.92	119.28
19	c	253	GLN	N-CA-C	-5.12	105.59	111.07
18	b	1135	VAL	CB-CA-C	-5.12	105.33	111.88
3	Q	161	PRO	N-CA-C	5.11	116.94	110.70
24	h	119	VAL	N-CA-C	5.11	119.97	109.34
17	a	1368	TYR	CA-C-N	-5.10	116.50	122.93
17	a	1368	TYR	C-N-CA	-5.10	116.50	122.93
19	c	172	SER	CA-C-N	5.10	126.21	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	c	172	SER	C-N-CA	5.10	126.21	119.84
22	f	72	THR	CA-C-N	5.10	124.76	119.56
22	f	72	THR	C-N-CA	5.10	124.76	119.56
22	f	92	SER	N-CA-C	-5.08	106.18	112.38
17	a	640	TRP	N-CA-C	5.07	121.61	110.80
22	f	95	ALA	CA-C-N	5.06	126.17	119.84
22	f	95	ALA	C-N-CA	5.06	126.17	119.84
17	a	874	TYR	CA-C-O	5.06	125.15	119.18
18	b	790	LYS	CA-C-N	5.06	126.16	119.84
18	b	790	LYS	C-N-CA	5.06	126.16	119.84
18	b	264	SER	CB-CA-C	-5.05	109.10	116.53
19	c	17	VAL	CB-CA-C	-5.04	103.03	111.29
17	a	182	ILE	N-CA-C	5.03	114.81	107.88
17	a	1432	GLU	N-CA-C	-5.00	105.96	111.71
24	h	40	LEU	N-CA-C	5.00	116.84	108.99

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
8	N	256	LYS	Peptide
8	N	302	PRO	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	F	1534	0	1484	114	0
2	H	1493	0	1467	107	0
3	Q	3787	0	3544	283	0
4	R	1694	0	1670	148	0
5	T	1435	0	1448	198	0
6	K	769	0	783	69	0
7	V	949	0	961	69	0
8	N	3887	0	3543	322	0
9	D	480	0	101	11	0
10	G	965	0	402	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	U	608	0	265	4	0
12	3	515	0	209	17	0
13	2	388	0	155	14	0
14	I	374	0	163	6	0
15	S	610	0	138	2	0
16	J	655	0	144	12	0
17	a	11761	0	11738	3370	0
18	b	9180	0	9164	1711	0
19	c	2088	0	2044	333	0
20	d	988	0	977	375	0
21	e	1663	0	1684	213	0
22	f	656	0	679	78	0
23	g	1330	0	1329	424	0
24	h	996	0	1006	169	0
25	i	902	0	843	280	0
26	j	518	0	532	101	0
27	k	955	0	968	126	0
28	l	368	0	381	39	0
All	All	51548	0	47822	7818	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 79.

All (7818) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1161:PRO:HG2	17:a:1190:LYS:CG	1.29	1.60
8:N:192:THR:C	8:N:194:PRO:HD3	1.19	1.59
23:g:100:PHE:HB2	23:g:111:VAL:CG1	1.34	1.58
3:Q:135:GLU:HB3	20:d:128:SER:CB	1.29	1.57
17:a:267:ASP:CB	17:a:268:LEU:HB2	1.35	1.56
17:a:1161:PRO:CG	17:a:1190:LYS:HG2	1.33	1.55
8:N:199:VAL:HG12	8:N:217:TRP:CE3	1.42	1.52
5:T:93:ARG:HD3	19:c:91:ASP:C	1.28	1.52
17:a:236:ARG:HB2	17:a:239:TRP:CZ3	1.47	1.50
18:b:273:ARG:CD	18:b:310:ILE:HD12	1.42	1.50
17:a:64:ASP:HB3	17:a:67:PHE:CZ	1.45	1.50
17:a:236:ARG:HB2	17:a:239:TRP:CE3	1.45	1.50
17:a:1276:SER:HA	17:a:1277:ILE:CG2	1.39	1.50
18:b:273:ARG:HD2	18:b:310:ILE:CD1	1.42	1.48
17:a:64:ASP:HB3	17:a:67:PHE:CE1	1.49	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:d:32:ILE:CD1	20:d:74:THR:HG21	1.38	1.47
5:T:93:ARG:CD	19:c:91:ASP:C	1.88	1.45
17:a:1395:ILE:CD1	17:a:1397:ARG:HB3	1.47	1.45
8:N:300:GLU:HG3	17:a:1469:ALA:N	1.26	1.44
17:a:1173:VAL:HG12	17:a:1177:PHE:CE2	1.51	1.44
17:a:106:GLU:HB3	17:a:144:CYS:SG	1.58	1.43
17:a:419:ILE:CG2	17:a:425:LYS:HD2	1.49	1.43
17:a:1276:SER:CB	17:a:1277:ILE:HG12	1.47	1.43
3:Q:135:GLU:CB	20:d:128:SER:HB3	1.48	1.42
17:a:1290:MET:HE2	17:a:1312:LEU:CD2	1.49	1.41
20:d:58:THR:HB	20:d:62:PHE:CE2	1.54	1.41
18:b:292:ASN:CA	18:b:293:ASP:HB2	1.42	1.41
17:a:517:ILE:HD11	17:a:640:TRP:CD1	1.54	1.39
8:N:851:ALA:HA	8:N:852:PRO:CB	1.35	1.39
17:a:42:THR:HG21	17:a:55:LEU:CB	1.53	1.39
17:a:1166:ILE:CA	17:a:1167:GLU:HB3	1.49	1.39
17:a:167:SER:N	17:a:168:ALA:HB3	1.30	1.38
18:b:323:ARG:HB3	18:b:324:GLY:CA	1.50	1.38
17:a:120:SER:CB	17:a:121:ASN:HB2	1.53	1.38
5:T:94:GLN:CD	19:c:89:ASN:HB3	1.32	1.38
17:a:708:LEU:HB3	17:a:709:LYS:CA	1.42	1.37
18:b:488:ILE:CG2	18:b:489:GLY:HA3	1.54	1.37
17:a:1166:ILE:HA	17:a:1167:GLU:CB	1.46	1.37
3:Q:135:GLU:CB	20:d:128:SER:CB	2.00	1.36
17:a:271:LYS:HE2	17:a:328:LEU:CG	1.55	1.36
18:b:229:LEU:HA	18:b:230:GLU:CB	1.41	1.36
17:a:107:CYS:SG	17:a:140:VAL:HG11	1.64	1.35
18:b:310:ILE:HB	18:b:311:GLN:CA	1.53	1.35
19:c:137:ASP:CG	19:c:140:SER:HB2	1.50	1.35
23:g:133:GLY:HA3	23:g:134:GLU:CB	1.50	1.35
17:a:1403:LEU:HD22	17:a:1432:GLU:CG	1.56	1.34
17:a:177:ALA:HB1	17:a:178:ALA:C	1.54	1.33
23:g:46:ILE:HA	23:g:79:LEU:CD2	1.58	1.33
24:h:62:ASN:CB	24:h:63:LEU:HB3	1.58	1.33
17:a:165:ASN:CB	17:a:166:PRO:HA	1.51	1.32
17:a:1091:GLY:CA	17:a:1092:VAL:HB	1.55	1.32
18:b:215:ALA:C	18:b:217:SER:HB3	1.54	1.32
23:g:5:LEU:HD11	23:g:50:LEU:CD1	1.60	1.32
8:N:199:VAL:CG1	8:N:217:TRP:CE3	2.12	1.31
20:d:24:MET:SD	20:d:88:PHE:HD1	1.52	1.31
8:N:199:VAL:CG1	8:N:217:TRP:CD2	2.12	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:166:PRO:C	17:a:168:ALA:HB3	1.55	1.31
17:a:381:THR:HA	17:a:382:TYR:CB	1.45	1.31
18:b:310:ILE:CB	18:b:311:GLN:HA	1.54	1.30
21:e:101:THR:HG21	21:e:126:THR:CG2	1.58	1.30
17:a:40:PRO:CG	17:a:276:ILE:HG22	1.60	1.30
20:d:99:GLU:CG	20:d:124:LEU:HD21	1.60	1.30
8:N:192:THR:C	8:N:194:PRO:CD	2.03	1.30
17:a:1089:TYR:CA	17:a:1090:ALA:HB3	1.62	1.30
18:b:907:ILE:HD13	18:b:924:ARG:NH2	1.43	1.30
23:g:5:LEU:CD1	23:g:50:LEU:HD11	1.61	1.30
17:a:1191:GLN:HB3	17:a:1246:ILE:CG2	1.60	1.30
17:a:1489:SER:HB3	17:a:1490:PRO:CD	1.61	1.30
17:a:1276:SER:CA	17:a:1277:ILE:HG12	1.62	1.29
17:a:1276:SER:CA	17:a:1277:ILE:HG23	1.61	1.29
18:b:291:PRO:HA	18:b:292:ASN:CB	1.51	1.29
25:i:4:PHE:CE1	25:i:27:LEU:HD21	1.65	1.29
17:a:50:PRO:O	17:a:51:ARG:HG2	1.25	1.29
17:a:846:ARG:NH1	17:a:1391:THR:HA	1.42	1.29
17:a:1167:GLU:O	17:a:1168:GLU:HG3	1.12	1.29
18:b:290:ASP:HB2	18:b:292:ASN:CG	1.54	1.29
5:T:93:ARG:HD3	19:c:92:CYS:N	1.39	1.28
18:b:296:MET:HE1	18:b:372:LEU:C	1.56	1.28
17:a:108:VAL:CG1	17:a:113:GLY:HA2	1.63	1.28
17:a:147:LYS:O	17:a:148:MET:HG3	1.09	1.27
8:N:191:PHE:CB	8:N:194:PRO:HG2	1.62	1.26
8:N:218:ILE:HG23	8:N:245:ASN:ND2	1.48	1.26
17:a:1082:MET:HE1	17:a:1364:PHE:O	1.36	1.26
18:b:290:ASP:CA	18:b:292:ASN:HB2	1.64	1.26
18:b:454:ASP:CG	18:b:455:GLN:HA	1.57	1.26
8:N:199:VAL:HG11	8:N:217:TRP:CD2	1.68	1.26
25:i:53:VAL:CG1	25:i:56:THR:HB	1.66	1.26
17:a:81:GLY:HA3	17:a:249:PRO:CG	1.64	1.25
17:a:165:ASN:HB3	17:a:166:PRO:CA	1.65	1.25
5:T:94:GLN:CD	19:c:89:ASN:CB	2.03	1.25
20:d:26:THR:OG1	20:d:29:GLU:HB3	1.25	1.25
23:g:51:ASP:CA	23:g:55:ILE:HD11	1.65	1.25
8:N:851:ALA:CA	8:N:852:PRO:CB	2.15	1.24
23:g:93:THR:HG22	23:g:101:PHE:O	1.33	1.24
17:a:90:LYS:NZ	17:a:282:VAL:HG11	1.50	1.24
17:a:95:ILE:HG13	17:a:314:ILE:CD1	1.65	1.24
17:a:201:ASP:HB3	17:a:206:ARG:NH1	1.50	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:296:MET:CE	18:b:372:LEU:HB3	1.65	1.24
20:d:24:MET:SD	20:d:88:PHE:CD1	2.30	1.24
17:a:1195:LEU:CD1	17:a:1242:ARG:HD3	1.67	1.24
20:d:25:LEU:CD1	23:g:5:LEU:HB2	1.68	1.23
17:a:1100:GLY:C	17:a:1102:PRO:HD2	1.63	1.23
17:a:1403:LEU:CD2	17:a:1432:GLU:HG3	1.67	1.23
17:a:266:ASP:CB	17:a:267:ASP:HB2	1.68	1.23
17:a:1101:VAL:HG12	17:a:1102:PRO:CD	1.68	1.23
21:e:49:GLY:CA	21:e:50:ARG:HB2	1.55	1.23
17:a:120:SER:HB3	17:a:121:ASN:CB	1.67	1.22
17:a:205:LYS:O	17:a:206:ARG:HD2	1.07	1.22
17:a:71:THR:HG22	17:a:72:CYS:SG	1.79	1.22
18:b:229:LEU:CA	18:b:230:GLU:HB3	1.69	1.22
21:e:100:LYS:O	21:e:101:THR:HG23	1.38	1.22
17:a:23:ILE:CD1	17:a:1420:ALA:HA	1.69	1.22
8:N:300:GLU:CG	17:a:1469:ALA:N	2.01	1.22
17:a:177:ALA:CB	17:a:178:ALA:HB3	1.68	1.22
17:a:40:PRO:HG3	17:a:276:ILE:CG2	1.67	1.21
17:a:119:SER:H	17:a:120:SER:CA	1.54	1.21
17:a:379:THR:O	17:a:380:LEU:HD23	1.38	1.21
18:b:292:ASN:HA	18:b:293:ASP:CB	1.67	1.21
17:a:83:PHE:CE2	18:b:1196:MET:HB2	1.76	1.21
17:a:946:CYS:HB2	17:a:949:ILE:CD1	1.69	1.21
17:a:362:ASP:OD2	17:a:365:LEU:HG	1.38	1.21
17:a:108:VAL:HG12	17:a:113:GLY:CA	1.71	1.20
17:a:429:ASP:O	17:a:430:ILE:HD13	1.41	1.20
18:b:329:VAL:HA	18:b:330:THR:CG2	1.71	1.20
18:b:199:ALA:O	18:b:200:GLN:HG2	1.41	1.20
18:b:290:ASP:HB2	18:b:292:ASN:ND2	1.54	1.20
23:g:10:LEU:HD22	23:g:35:VAL:CG2	1.72	1.20
8:N:218:ILE:CG2	8:N:245:ASN:ND2	2.04	1.19
17:a:177:ALA:CB	17:a:179:GLN:HG3	1.72	1.19
18:b:659:PRO:HA	18:b:660:GLU:C	1.59	1.19
17:a:83:PHE:CZ	18:b:1196:MET:HB2	1.76	1.19
17:a:380:LEU:O	17:a:381:THR:HG22	1.02	1.19
17:a:1406:CYS:SG	17:a:1415:LEU:HD21	1.81	1.19
17:a:846:ARG:HH11	17:a:1391:THR:CA	1.53	1.19
17:a:23:ILE:HD11	17:a:1420:ALA:CA	1.72	1.19
17:a:517:ILE:CD1	17:a:640:TRP:CD1	2.24	1.19
17:a:374:ARG:HB2	17:a:374:ARG:HH11	1.02	1.18
17:a:106:GLU:CB	17:a:144:CYS:SG	2.32	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:366:SER:OG	17:a:369:GLU:HG3	1.43	1.18
18:b:488:ILE:CB	18:b:489:GLY:HA3	1.61	1.18
18:b:1108:VAL:HG13	18:b:1115:GLY:O	1.42	1.18
25:i:20:LYS:HD2	25:i:21:VAL:N	1.58	1.18
17:a:708:LEU:CB	17:a:709:LYS:HA	1.59	1.18
17:a:1276:SER:HA	17:a:1277:ILE:CB	1.60	1.18
17:a:1480:GLU:CD	20:d:44:GLU:HG2	1.67	1.18
8:N:196:GLU:OE1	8:N:223:GLN:HB2	1.44	1.18
3:Q:138:ILE:CG2	20:d:129:THR:HA	1.73	1.17
17:a:775:ILE:O	17:a:776:VAL:HG12	1.42	1.17
18:b:307:ALA:HB1	18:b:310:ILE:HD11	1.18	1.17
18:b:605:ILE:HB	25:i:61:ASP:HB2	1.18	1.17
17:a:147:LYS:O	17:a:148:MET:CG	1.92	1.17
17:a:836:LYS:HG2	17:a:840:THR:HG21	1.27	1.17
17:a:1170:LYS:HE2	17:a:1240:ILE:HD11	1.20	1.17
19:c:84:LEU:O	19:c:84:LEU:HD23	1.42	1.17
23:g:164:MET:CE	23:g:170:GLY:HA2	1.73	1.17
17:a:177:ALA:CA	17:a:178:ALA:HB3	1.75	1.17
17:a:230:LEU:HD11	17:a:237:PRO:HG3	1.19	1.17
3:Q:135:GLU:CG	20:d:128:SER:HB3	1.73	1.16
17:a:380:LEU:O	17:a:381:THR:CG2	1.94	1.16
17:a:1119:LEU:HG	17:a:1314:THR:HB	1.27	1.16
18:b:488:ILE:HG22	18:b:489:GLY:HA3	1.17	1.16
21:e:27:TYR:CD2	21:e:63:PRO:HG3	1.79	1.16
17:a:62:THR:HG21	17:a:75:THR:CG2	1.73	1.16
17:a:312:ASN:ND2	17:a:330:SER:HB3	1.60	1.16
17:a:343:ARG:HG3	17:a:1409:GLU:OE2	1.42	1.16
20:d:57:LYS:HB3	23:g:105:GLY:O	1.44	1.16
25:i:20:LYS:HD2	25:i:21:VAL:H	1.01	1.16
17:a:177:ALA:HB1	17:a:178:ALA:CB	1.74	1.16
17:a:1290:MET:CE	17:a:1312:LEU:CD2	2.23	1.16
20:d:99:GLU:HG2	20:d:124:LEU:HD21	1.17	1.16
22:f:123:LEU:CD2	22:f:137:SER:HA	1.75	1.16
23:g:52:SER:H	23:g:55:ILE:CD1	1.57	1.16
17:a:260:GLY:HA3	18:b:924:ARG:NE	1.59	1.16
18:b:1062:TYR:HE1	18:b:1069:LYS:HG2	1.11	1.16
17:a:815:THR:HG22	18:b:715:ARG:HB3	1.23	1.15
18:b:454:ASP:OD1	18:b:455:GLN:HA	1.43	1.15
17:a:193:TRP:O	17:a:200:SER:HB3	1.46	1.15
17:a:1091:GLY:HA3	17:a:1092:VAL:CB	1.69	1.15
17:a:1167:GLU:O	17:a:1168:GLU:CG	1.93	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:d:11:ALA:HB1	20:d:12:GLN:C	1.71	1.15
17:a:1395:ILE:HD11	17:a:1397:ARG:HD2	1.18	1.15
25:i:73:LYS:CG	25:i:81:HIS:HD2	1.58	1.15
17:a:42:THR:HG22	17:a:43:MET:H	0.99	1.15
17:a:432:LEU:HA	17:a:436:TRP:CZ2	1.82	1.15
17:a:1195:LEU:HD11	17:a:1242:ARG:CD	1.76	1.15
17:a:25:SER:HB2	17:a:239:TRP:NE1	1.61	1.15
17:a:108:VAL:CG1	17:a:113:GLY:CA	2.23	1.15
17:a:1191:GLN:HB3	17:a:1246:ILE:HG23	1.24	1.15
20:d:32:ILE:CD1	20:d:74:THR:CG2	2.25	1.15
26:j:43:TYR:HB2	26:j:44:CYS:HA	1.27	1.15
8:N:218:ILE:HG23	8:N:245:ASN:CG	1.71	1.14
17:a:177:ALA:HB1	17:a:178:ALA:CA	1.76	1.14
17:a:1074:SER:O	17:a:1078:PRO:HD3	1.47	1.14
17:a:1115:LYS:O	17:a:1117:PRO:HD3	1.47	1.14
18:b:200:GLN:HE21	18:b:465:VAL:CG2	1.59	1.14
18:b:386:HIS:HB3	18:b:389:LYS:H	1.07	1.14
17:a:336:LYS:HG2	17:a:336:LYS:O	1.46	1.14
17:a:1101:VAL:CG1	17:a:1102:PRO:HD3	1.76	1.14
17:a:1165:VAL:HG12	17:a:1166:ILE:H	1.00	1.14
17:a:1255:ASP:O	17:a:1256:ASP:HB2	1.46	1.14
8:N:399:ARG:NE	8:N:408:SER:OG	1.80	1.14
17:a:1173:VAL:CG1	17:a:1177:PHE:HE2	1.58	1.14
17:a:1397:ARG:HG3	17:a:1398:ALA:H	1.02	1.14
17:a:1412:VAL:HG13	17:a:1413:GLU:H	1.01	1.14
8:N:192:THR:CA	8:N:194:PRO:HD3	1.77	1.14
17:a:48:GLN:HG3	17:a:50:PRO:HG3	1.22	1.14
17:a:236:ARG:CB	17:a:239:TRP:CE3	2.30	1.14
17:a:381:THR:HA	17:a:382:TYR:HB3	1.26	1.14
23:g:59:LYS:HB3	23:g:60:GLY:CA	1.73	1.14
5:T:119:SER:HB3	19:c:89:ASN:HD22	1.10	1.14
8:N:399:ARG:NE	8:N:408:SER:HG	1.43	1.14
17:a:105:LEU:HD13	17:a:182:ILE:HD12	1.16	1.14
23:g:116:VAL:CG1	23:g:117:PRO:HD2	1.78	1.14
17:a:267:ASP:CA	17:a:268:LEU:HB2	1.78	1.13
18:b:654:ARG:HB3	18:b:655:TYR:CA	1.76	1.13
19:c:212:GLU:HB2	19:c:213:PRO:HA	1.29	1.13
17:a:161:PHE:O	17:a:166:PRO:HB3	1.45	1.13
18:b:1054:GLN:HB3	18:b:1056:ARG:NE	1.61	1.13
17:a:64:ASP:CB	17:a:67:PHE:CE1	2.30	1.13
23:g:147:LYS:CD	23:g:169:LEU:HD11	1.77	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:57:ASP:HB3	17:a:58:PRO:CD	1.67	1.13
17:a:646:GLU:H	17:a:648:CYS:CB	1.61	1.12
17:a:1194:TRP:CH2	17:a:1262:GLU:CB	2.32	1.13
20:d:11:ALA:CA	20:d:12:GLN:HB3	1.79	1.12
23:g:100:PHE:HB2	23:g:111:VAL:HG11	1.18	1.13
17:a:1176:PHE:O	17:a:1180:PRO:HD3	1.47	1.12
23:g:133:GLY:CA	23:g:134:GLU:HB3	1.77	1.12
17:a:267:ASP:HB2	17:a:268:LEU:HB2	1.29	1.12
17:a:521:GLN:HG3	17:a:1074:SER:HB2	1.13	1.12
17:a:1150:THR:HB	25:i:48:LEU:HD23	1.17	1.12
18:b:423:GLU:HG2	18:b:424:THR:HG23	1.21	1.12
5:T:93:ARG:HD2	19:c:91:ASP:O	1.48	1.12
17:a:230:LEU:CD1	17:a:237:PRO:HG3	1.79	1.12
17:a:1411:THR:O	17:a:1412:VAL:HG12	1.46	1.12
20:d:99:GLU:C	20:d:124:LEU:HD22	1.75	1.12
20:d:99:GLU:O	20:d:124:LEU:HD22	1.46	1.12
17:a:101:ILE:HD11	17:a:217:PHE:CE2	1.84	1.12
17:a:947:LYS:HA	17:a:948:PHE:O	1.50	1.12
17:a:1150:THR:HG22	25:i:48:LEU:HD22	1.14	1.12
23:g:116:VAL:HG13	23:g:117:PRO:HD2	1.19	1.12
18:b:656:ASP:O	18:b:657:ILE:HG23	1.46	1.12
20:d:11:ALA:CB	20:d:12:GLN:HB3	1.80	1.12
20:d:24:MET:HG2	23:g:4:PHE:CE1	1.84	1.12
20:d:99:GLU:CB	20:d:124:LEU:HD21	1.77	1.12
26:j:7:CYS:CB	26:j:45:CYS:HB3	1.80	1.12
17:a:1146:LEU:HD12	17:a:1274:LEU:HD23	1.24	1.11
17:a:1150:THR:CG2	25:i:48:LEU:HD22	1.78	1.11
17:a:1170:LYS:HE2	17:a:1240:ILE:CD1	1.77	1.11
17:a:1192:SER:H	17:a:1193:PRO:HD3	1.04	1.11
18:b:219:ILE:HG22	18:b:220:ALA:H	1.02	1.11
20:d:25:LEU:HD11	23:g:5:LEU:HB2	1.17	1.11
18:b:290:ASP:HA	18:b:292:ASN:CB	1.79	1.11
19:c:80:PRO:HB2	19:c:81:PRO:HD3	1.12	1.11
17:a:154:LEU:H	17:a:173:GLY:C	1.59	1.11
17:a:267:ASP:HB3	17:a:268:LEU:HB2	1.32	1.11
17:a:525:PRO:HD3	17:a:637:HIS:ND1	1.66	1.11
17:a:120:SER:H	17:a:122:PRO:N	1.48	1.10
17:a:205:LYS:O	17:a:206:ARG:CD	1.98	1.10
17:a:271:LYS:CE	17:a:328:LEU:HG	1.79	1.10
17:a:1290:MET:CE	17:a:1312:LEU:HD21	1.81	1.10
17:a:1450:TYR:HD1	23:g:60:GLY:C	1.59	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1478:LEU:HD12	17:a:1479:PRO:HD2	1.28	1.10
18:b:508:VAL:HA	18:b:509:CYS:HB2	1.30	1.10
20:d:69:LYS:O	20:d:70:THR:HG23	1.48	1.10
17:a:405:HIS:HB3	17:a:406:PRO:HD3	1.12	1.10
18:b:429:ASN:O	18:b:430:LEU:HB2	1.51	1.10
17:a:380:LEU:HD13	17:a:497:VAL:HG21	1.33	1.10
17:a:405:HIS:HB3	17:a:406:PRO:CD	1.80	1.10
17:a:947:LYS:HB3	17:a:951:PRO:HD2	1.28	1.10
5:T:64:MET:SD	5:T:77:GLU:HG3	1.92	1.10
8:N:199:VAL:HG13	8:N:217:TRP:CB	1.80	1.10
8:N:300:GLU:OE1	17:a:1471:SER:OG	1.69	1.10
17:a:24:LEU:HB2	18:b:1199:ASN:O	1.52	1.10
17:a:33:SER:HB2	17:a:84:GLY:HA2	1.27	1.10
17:a:709:LYS:HB3	17:a:710:PRO:HD2	1.16	1.10
17:a:95:ILE:CG1	17:a:314:ILE:HD13	1.82	1.10
17:a:207:LEU:H	17:a:207:LEU:HD22	1.03	1.10
17:a:368:ASP:CG	17:a:649:LYS:HE3	1.77	1.10
18:b:488:ILE:HB	18:b:489:GLY:CA	1.82	1.10
17:a:24:LEU:HB2	18:b:1199:ASN:C	1.76	1.09
17:a:119:SER:H	17:a:120:SER:HA	1.11	1.09
17:a:381:THR:HA	17:a:382:TYR:HB2	1.15	1.09
17:a:822:HIS:NE2	18:b:753:SER:HB2	1.66	1.09
17:a:1071:ALA:HB2	17:a:1373:HIS:HD2	1.14	1.09
17:a:1165:VAL:HG12	17:a:1166:ILE:N	1.54	1.09
17:a:1282:VAL:CB	17:a:1285:ILE:HD12	1.81	1.09
18:b:296:MET:HE3	18:b:372:LEU:CB	1.81	1.09
18:b:323:ARG:CB	18:b:324:GLY:CA	2.30	1.09
17:a:261:THR:O	17:a:262:SER:HB2	1.52	1.09
17:a:467:ARG:HA	17:a:468:VAL:HB	1.28	1.09
24:h:59:ILE:O	24:h:60:THR:HG22	1.50	1.09
26:j:43:TYR:CB	26:j:44:CYS:HA	1.81	1.09
17:a:105:LEU:O	17:a:106:GLU:HB2	1.45	1.09
18:b:267:PRO:HB3	18:b:306:GLU:OE1	1.52	1.09
18:b:292:ASN:N	18:b:293:ASP:HB2	1.67	1.09
20:d:11:ALA:HA	20:d:12:GLN:CB	1.83	1.09
20:d:27:VAL:CG2	20:d:95:THR:HG22	1.82	1.09
20:d:47:GLY:O	20:d:48:GLU:HB2	1.53	1.09
25:i:25:LEU:HB3	25:i:38:ALA:CB	1.79	1.09
25:i:111:GLU:HG2	25:i:112:GLU:H	0.98	1.09
17:a:62:THR:CG2	17:a:75:THR:HG21	1.82	1.09
17:a:646:GLU:H	17:a:648:CYS:HB3	1.11	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1150:THR:CG2	25:i:48:LEU:CD2	2.29	1.09
18:b:254:THR:CG2	18:b:302:PRO:HB2	1.82	1.09
24:h:62:ASN:CB	24:h:63:LEU:CB	2.30	1.09
17:a:267:ASP:CB	17:a:268:LEU:CB	2.30	1.09
17:a:328:LEU:O	17:a:328:LEU:HD13	1.49	1.09
18:b:264:SER:HB2	18:b:322:LYS:NZ	1.68	1.09
20:d:98:CYS:HA	20:d:99:GLU:HG3	1.35	1.09
23:g:151:THR:HA	23:g:160:ALA:HB2	1.33	1.09
8:N:199:VAL:CG1	8:N:217:TRP:CG	2.37	1.08
8:N:199:VAL:HG13	8:N:217:TRP:HB3	1.12	1.08
17:a:15:ARG:NH2	23:g:64:PRO:HG2	1.66	1.08
17:a:128:GLN:HG2	17:a:139:ALA:HB1	1.13	1.08
17:a:196:GLY:O	17:a:197:LYS:HB2	1.46	1.08
17:a:571:ILE:HG12	17:a:573:LYS:HE3	1.30	1.08
17:a:709:LYS:HB3	17:a:710:PRO:CD	1.83	1.08
17:a:778:GLY:C	17:a:1092:VAL:HG23	1.78	1.08
17:a:375:SER:HB3	27:k:2:ASN:HD21	1.13	1.08
17:a:419:ILE:CG2	17:a:425:LYS:CD	2.30	1.08
17:a:1276:SER:CA	17:a:1277:ILE:CG1	2.30	1.08
18:b:290:ASP:HB2	18:b:292:ASN:CB	1.82	1.08
21:e:49:GLY:HA2	21:e:50:ARG:HB2	1.36	1.08
23:g:100:PHE:CB	23:g:111:VAL:CG1	2.30	1.08
24:h:62:ASN:CA	24:h:63:LEU:CB	2.30	1.08
17:a:1247:ARG:HD3	17:a:1250:ASP:OD2	1.51	1.08
17:a:1452:ASP:OD1	22:f:123:LEU:HD11	1.51	1.08
18:b:212:LYS:HG3	18:b:213:LYS:H	1.03	1.08
25:i:20:LYS:CD	25:i:21:VAL:HG23	1.83	1.08
5:T:93:ARG:CG	19:c:90:CYS:O	2.01	1.08
8:N:192:THR:H	8:N:194:PRO:CG	1.65	1.08
18:b:235:LEU:O	18:b:235:LEU:HD22	1.54	1.08
18:b:343:GLN:O	18:b:344:LYS:HG3	1.51	1.08
25:i:111:GLU:CG	25:i:112:GLU:H	1.62	1.08
17:a:85:HIS:HB2	17:a:244:VAL:CG1	1.84	1.07
17:a:236:ARG:CB	17:a:239:TRP:CZ3	2.36	1.07
17:a:428:GLY:O	17:a:430:ILE:HD12	1.54	1.07
17:a:1101:VAL:CG1	17:a:1102:PRO:CD	2.30	1.07
19:c:129:SER:OG	19:c:130:LEU:HA	1.54	1.07
21:e:49:GLY:HA3	21:e:50:ARG:HB2	1.28	1.07
23:g:59:LYS:CB	23:g:60:GLY:HA2	1.77	1.07
17:a:42:THR:HG22	17:a:43:MET:N	1.59	1.07
17:a:57:ASP:CB	17:a:58:PRO:HD3	1.84	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:230:LEU:HD13	17:a:237:PRO:CD	1.84	1.07
17:a:230:LEU:HD13	17:a:237:PRO:HD3	1.34	1.07
17:a:271:LYS:HE2	17:a:328:LEU:HG	1.16	1.07
17:a:335:LEU:HD23	17:a:335:LEU:H	1.07	1.07
17:a:558:TRP:O	17:a:559:VAL:HG13	1.54	1.07
17:a:1119:LEU:HG	17:a:1314:THR:CB	1.84	1.07
17:a:1282:VAL:HG11	17:a:1285:ILE:CD1	1.85	1.07
18:b:386:HIS:HD2	18:b:388:GLY:HA3	1.19	1.07
23:g:153:THR:HG22	23:g:158:ILE:HG12	1.29	1.07
8:N:191:PHE:HB3	8:N:194:PRO:CG	1.85	1.07
17:a:95:ILE:HG13	17:a:314:ILE:HD13	1.31	1.07
17:a:202:LEU:CB	17:a:203:PRO:HD2	1.83	1.07
18:b:425:ASN:O	18:b:426:ARG:HB2	1.47	1.07
5:T:93:ARG:HD2	19:c:91:ASP:C	1.78	1.07
17:a:120:SER:HB3	17:a:121:ASN:C	1.80	1.07
19:c:130:LEU:HB3	19:c:131:GLY:HA3	1.33	1.07
20:d:24:MET:CG	23:g:4:PHE:CE1	2.37	1.07
23:g:10:LEU:HD23	23:g:31:LEU:HD12	1.34	1.07
17:a:177:ALA:HB3	17:a:179:GLN:HE21	1.16	1.07
17:a:1260:ILE:HG13	17:a:1260:ILE:O	1.48	1.07
18:b:281:ARG:HG3	25:i:6:TYR:CZ	1.88	1.07
20:d:80:ILE:HD11	20:d:130:LEU:HD11	1.37	1.07
24:h:62:ASN:HA	24:h:63:LEU:HB2	1.12	1.07
17:a:64:ASP:CB	17:a:67:PHE:CZ	2.37	1.06
17:a:1290:MET:HE2	17:a:1312:LEU:HD21	1.10	1.06
19:c:129:SER:CB	19:c:130:LEU:HA	1.80	1.06
19:c:130:LEU:HD12	19:c:130:LEU:N	1.70	1.06
20:d:27:VAL:HG23	20:d:95:THR:HG22	1.36	1.06
17:a:107:CYS:SG	17:a:140:VAL:CG1	2.44	1.06
17:a:263:ARG:O	17:a:263:ARG:HD3	1.55	1.06
17:a:419:ILE:HG21	17:a:425:LYS:HD2	1.34	1.06
17:a:1282:VAL:HB	17:a:1285:ILE:HD12	1.32	1.06
17:a:1496:PHE:CD2	20:d:33:LEU:HG	1.89	1.06
18:b:246:ARG:CG	18:b:247:ASN:H	1.66	1.06
20:d:24:MET:HG2	23:g:4:PHE:CZ	1.89	1.06
18:b:215:ALA:CA	18:b:217:SER:HB3	1.84	1.06
18:b:254:THR:HG22	18:b:302:PRO:CB	1.84	1.06
23:g:46:ILE:HA	23:g:79:LEU:HD23	1.06	1.06
23:g:46:ILE:HG12	23:g:79:LEU:HD21	1.30	1.06
25:i:25:LEU:HB3	25:i:38:ALA:HB2	1.11	1.06
17:a:155:SER:HB3	17:a:169:ASN:HB2	1.37	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:230:LEU:CD1	17:a:237:PRO:CG	2.33	1.06
17:a:266:ASP:HB3	17:a:267:ASP:CB	1.86	1.06
17:a:1276:SER:HB2	17:a:1277:ILE:HG12	1.07	1.06
17:a:1395:ILE:HD12	17:a:1397:ARG:HB3	1.09	1.06
18:b:212:LYS:HG3	18:b:213:LYS:N	1.67	1.06
24:h:62:ASN:CA	24:h:63:LEU:HB2	1.85	1.06
25:i:20:LYS:CD	25:i:21:VAL:H	1.68	1.06
27:k:118:VAL:O	27:k:119:GLU:HG2	1.56	1.06
17:a:40:PRO:CB	17:a:276:ILE:HG22	1.85	1.06
18:b:246:ARG:HG3	18:b:247:ASN:H	1.20	1.06
23:g:150:GLY:O	23:g:160:ALA:HB1	1.55	1.06
17:a:12:PRO:O	17:a:13:LEU:HD23	1.53	1.05
17:a:381:THR:CA	17:a:382:TYR:CB	2.30	1.05
17:a:513:VAL:HG23	17:a:514:PRO:HD3	1.09	1.05
17:a:1089:TYR:CA	17:a:1090:ALA:CB	2.30	1.05
20:d:32:ILE:HD12	20:d:74:THR:HG21	1.07	1.05
23:g:52:SER:N	23:g:55:ILE:HD12	1.70	1.05
27:k:118:VAL:CG2	27:k:119:GLU:H	1.66	1.05
17:a:177:ALA:HA	17:a:178:ALA:HB3	1.38	1.05
17:a:205:LYS:HG3	17:a:206:ARG:HE	1.18	1.05
3:Q:135:GLU:CB	20:d:128:SER:HB2	1.81	1.05
17:a:266:ASP:HB3	17:a:267:ASP:HB2	1.09	1.05
17:a:1151:SER:HA	17:a:1152:ALA:HB2	1.08	1.05
25:i:87:GLN:NE2	25:i:97:MET:HE3	1.70	1.05
17:a:120:SER:CB	17:a:121:ASN:CB	2.30	1.05
17:a:950:PHE:CB	17:a:951:PRO:HD3	1.83	1.05
17:a:1146:LEU:CD1	17:a:1274:LEU:HD23	1.87	1.05
17:a:1461:LEU:HB3	17:a:1462:GLY:CA	1.87	1.05
20:d:51:MET:CE	20:d:55:MET:HE2	1.85	1.05
24:h:62:ASN:HB2	24:h:63:LEU:HB3	1.37	1.05
3:Q:138:ILE:HG23	20:d:129:THR:CA	1.85	1.05
17:a:108:VAL:CG1	17:a:113:GLY:C	2.30	1.05
17:a:202:LEU:HB2	17:a:203:PRO:HD2	1.32	1.05
17:a:425:LYS:NZ	17:a:430:ILE:HG13	1.70	1.05
17:a:1290:MET:HE2	17:a:1312:LEU:HD23	1.33	1.05
17:a:1395:ILE:HD11	17:a:1397:ARG:HB3	1.37	1.05
24:h:63:LEU:HD23	24:h:63:LEU:O	1.53	1.05
17:a:162:ASP:HA	17:a:165:ASN:HB2	1.35	1.04
17:a:177:ALA:HB3	17:a:179:GLN:HG3	1.38	1.04
17:a:728:LEU:HD13	17:a:805:PHE:CD2	1.91	1.04
8:N:193:VAL:N	8:N:194:PRO:HD3	1.71	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:81:GLY:HA3	17:a:249:PRO:HG3	1.36	1.04
17:a:117:ILE:HG21	17:a:125:ASN:HB2	1.09	1.04
17:a:345:ASN:O	17:a:349:LYS:HE2	1.57	1.04
17:a:1089:TYR:HA	17:a:1090:ALA:CB	1.79	1.04
17:a:1276:SER:HA	17:a:1277:ILE:CG1	1.86	1.04
17:a:1496:PHE:CD2	20:d:33:LEU:CG	2.40	1.04
17:a:1496:PHE:CD2	20:d:33:LEU:HD21	1.91	1.04
18:b:290:ASP:CB	18:b:292:ASN:CG	2.30	1.04
17:a:343:ARG:HD3	18:b:1121:GLU:OE1	1.57	1.04
17:a:846:ARG:HD2	17:a:1390:ILE:O	1.57	1.04
17:a:1496:PHE:HD2	20:d:33:LEU:CG	1.71	1.04
23:g:35:VAL:HG12	23:g:46:ILE:HG21	1.37	1.04
25:i:79:HIS:O	25:i:80:GLN:HB2	1.55	1.04
27:k:118:VAL:HG22	27:k:119:GLU:N	1.61	1.04
17:a:57:ASP:HB3	17:a:58:PRO:HD3	1.05	1.04
17:a:462:MET:HE2	17:a:513:VAL:HA	1.35	1.04
17:a:558:TRP:CH2	27:k:61:LYS:HG2	1.92	1.04
17:a:581:LYS:HB3	17:a:618:ILE:HD11	1.39	1.04
18:b:215:ALA:C	18:b:217:SER:CB	2.30	1.04
18:b:488:ILE:HD13	18:b:490:ARG:HG2	1.40	1.04
19:c:249:LEU:H	19:c:249:LEU:HD12	1.21	1.04
21:e:49:GLY:HA3	21:e:50:ARG:CB	1.87	1.04
21:e:199:THR:H	21:e:200:SER:C	1.64	1.04
25:i:53:VAL:HG12	25:i:56:THR:HB	1.33	1.04
17:a:507:ILE:HA	17:a:511:THR:HG23	1.40	1.04
17:a:1112:LYS:H	17:a:1112:LYS:HD3	1.18	1.04
17:a:1412:VAL:HG13	17:a:1413:GLU:N	1.59	1.04
19:c:137:ASP:CG	19:c:140:SER:CB	2.30	1.04
24:h:62:ASN:HA	24:h:63:LEU:CB	1.86	1.04
17:a:108:VAL:HG13	17:a:113:GLY:C	1.83	1.03
17:a:177:ALA:CB	17:a:178:ALA:C	2.30	1.03
18:b:296:MET:CE	18:b:372:LEU:CB	2.36	1.03
17:a:120:SER:HB3	17:a:121:ASN:O	1.58	1.03
17:a:645:PRO:O	17:a:646:GLU:HG2	1.57	1.03
17:a:775:ILE:C	17:a:776:VAL:HG12	1.81	1.03
17:a:1496:PHE:CD2	20:d:33:LEU:CD2	2.42	1.03
18:b:869:SER:O	18:b:870:THR:HG22	1.57	1.03
20:d:11:ALA:HA	20:d:12:GLN:HB3	1.33	1.03
20:d:99:GLU:CA	20:d:124:LEU:HD22	1.88	1.03
23:g:100:PHE:HB2	23:g:111:VAL:HG12	1.35	1.03
23:g:120:MET:HE1	23:g:138:ILE:HD12	1.38	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:g:145:ARG:HG3	23:g:172:LEU:CD2	1.86	1.03
17:a:85:HIS:HB2	17:a:244:VAL:HG12	1.38	1.03
17:a:398:VAL:HG11	17:a:411:ILE:HD11	1.38	1.03
18:b:659:PRO:HB3	18:b:661:GLN:HE21	1.18	1.03
17:a:95:ILE:O	17:a:98:LEU:HB2	1.57	1.03
17:a:120:SER:HB3	17:a:121:ASN:HB2	1.07	1.03
17:a:337:GLY:HA3	17:a:338:LYS:O	1.56	1.03
17:a:405:HIS:CB	17:a:406:PRO:HD3	1.88	1.03
17:a:651:PHE:CE1	17:a:655:ILE:HD11	1.92	1.03
17:a:1066:MET:HE1	17:a:1442:MET:CA	1.89	1.03
17:a:1142:GLU:O	17:a:1281:GLY:HA2	1.59	1.03
17:a:1260:ILE:HD12	25:i:30:ARG:NH2	1.74	1.03
17:a:1474:GLY:O	17:a:1475:THR:HG23	1.59	1.03
18:b:1054:GLN:HB3	18:b:1056:ARG:HE	0.86	1.03
21:e:58:SER:HB2	21:e:75:GLU:HA	1.37	1.03
23:g:147:LYS:HD2	23:g:169:LEU:CD1	1.88	1.03
3:Q:138:ILE:HG23	20:d:129:THR:HA	1.04	1.03
17:a:822:HIS:CE1	18:b:753:SER:HB2	1.93	1.03
17:a:1150:THR:CB	25:i:48:LEU:HD23	1.89	1.03
20:d:58:THR:CB	20:d:62:PHE:HE2	1.71	1.03
17:a:71:THR:HG23	18:b:1160:ILE:CG2	1.88	1.02
17:a:167:SER:N	17:a:168:ALA:CB	2.20	1.02
17:a:263:ARG:HH21	17:a:263:ARG:HG3	0.90	1.02
18:b:654:ARG:CB	18:b:655:TYR:HA	1.89	1.02
23:g:145:ARG:CG	23:g:172:LEU:HD21	1.87	1.02
17:a:1194:TRP:CH2	17:a:1262:GLU:HB2	1.95	1.02
17:a:1489:SER:CB	17:a:1490:PRO:HD3	1.89	1.02
18:b:229:LEU:HD11	18:b:231:ARG:NH2	1.75	1.02
24:h:63:LEU:C	24:h:63:LEU:CD2	2.32	1.02
17:a:1403:LEU:HD22	17:a:1432:GLU:HG3	1.08	1.02
18:b:329:VAL:HA	18:b:330:THR:HG22	1.40	1.02
18:b:669:VAL:HG22	18:b:674:ILE:HD11	1.40	1.02
23:g:127:ASN:CB	23:g:128:PRO:CD	2.37	1.02
17:a:90:LYS:HZ1	17:a:282:VAL:HG11	0.91	1.02
17:a:128:GLN:O	17:a:136:ARG:HG2	1.57	1.02
17:a:1276:SER:HB2	17:a:1277:ILE:CG1	1.89	1.02
23:g:127:ASN:CB	23:g:128:PRO:HD3	1.88	1.02
17:a:1071:ALA:HB2	17:a:1373:HIS:CD2	1.95	1.02
17:a:1119:LEU:N	17:a:1314:THR:HG22	1.74	1.02
18:b:200:GLN:HE21	18:b:465:VAL:HG23	1.22	1.02
9:D:26:UNK:O	17:a:980:LYS:NZ	1.91	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:263:ARG:HH21	17:a:263:ARG:CG	1.73	1.01
17:a:1162:GLN:NE2	17:a:1162:GLN:HA	1.74	1.01
20:d:99:GLU:HG3	20:d:124:LEU:HD11	1.37	1.01
3:Q:138:ILE:CG2	20:d:128:SER:O	2.08	1.01
17:a:25:SER:CB	17:a:239:TRP:NE1	2.23	1.01
17:a:232:GLU:HG2	17:a:232:GLU:O	1.55	1.01
17:a:267:ASP:H	17:a:268:LEU:C	1.67	1.01
17:a:517:ILE:CD1	17:a:640:TRP:HD1	1.65	1.01
17:a:775:ILE:C	17:a:775:ILE:CD1	2.30	1.01
17:a:1150:THR:HB	25:i:48:LEU:CD2	1.89	1.01
23:g:51:ASP:HA	23:g:55:ILE:HD11	1.02	1.01
17:a:38:GLU:O	17:a:40:PRO:HD3	1.61	1.01
17:a:730:GLN:HA	17:a:733:ASP:OD1	1.59	1.01
17:a:781:ILE:HG12	17:a:821:PHE:CE1	1.96	1.01
20:d:51:MET:CE	20:d:55:MET:CE	2.37	1.01
21:e:101:THR:CG2	21:e:126:THR:HG22	1.89	1.01
24:h:17:ASP:HB3	24:h:19:GLN:HG3	1.41	1.01
17:a:198:ASP:O	17:a:199:GLU:HB2	1.60	1.01
17:a:429:ASP:C	17:a:430:ILE:HD13	1.85	1.01
17:a:1151:SER:CA	17:a:1152:ALA:HB2	1.90	1.01
19:c:68:MET:HB3	26:j:6:ARG:HD2	1.39	1.01
17:a:51:ARG:O	17:a:52:VAL:HB	1.61	1.01
17:a:71:THR:HG23	18:b:1160:ILE:HG23	1.36	1.01
17:a:1071:ALA:CB	17:a:1373:HIS:CD2	2.43	1.01
18:b:659:PRO:HB3	18:b:661:GLN:NE2	1.75	1.01
18:b:1095:ARG:HE	18:b:1115:GLY:HA3	1.26	1.01
8:N:191:PHE:HB3	8:N:194:PRO:HG2	1.04	1.00
17:a:266:ASP:O	17:a:269:THR:HG23	1.61	1.00
17:a:335:LEU:HD23	17:a:335:LEU:N	1.72	1.00
17:a:670:ILE:HG22	17:a:748:ASN:HB3	1.43	1.00
17:a:708:LEU:HB3	17:a:709:LYS:C	1.85	1.00
17:a:1192:SER:HA	17:a:1245:ILE:O	1.61	1.00
23:g:127:ASN:HB2	23:g:128:PRO:CD	1.91	1.00
17:a:40:PRO:HG3	17:a:276:ILE:HG22	1.04	1.00
17:a:48:GLN:HG3	17:a:50:PRO:CG	1.91	1.00
17:a:163:LEU:HG	17:a:163:LEU:O	1.58	1.00
17:a:321:LEU:HB3	17:a:325:GLY:HA2	1.38	1.00
23:g:51:ASP:HA	23:g:55:ILE:CD1	1.91	1.00
17:a:83:PHE:CE2	18:b:1196:MET:CB	2.44	1.00
17:a:94:HIS:C	17:a:98:LEU:HG	1.87	1.00
17:a:177:ALA:HB3	17:a:179:GLN:NE2	1.73	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:646:GLU:HA	17:a:647:ILE:C	1.86	1.00
17:a:879:LEU:CD1	17:a:960:PRO:HG3	1.91	1.00
17:a:1110:VAL:HG11	17:a:1387:LEU:HD13	1.39	1.00
17:a:1461:LEU:HB3	17:a:1462:GLY:O	1.60	1.00
18:b:291:PRO:CA	18:b:292:ASN:HB2	1.85	1.00
18:b:488:ILE:CB	18:b:489:GLY:CA	2.34	1.00
23:g:52:SER:H	23:g:55:ILE:HD12	0.84	1.00
17:a:50:PRO:O	17:a:51:ARG:CG	2.10	1.00
17:a:646:GLU:N	17:a:648:CYS:HB3	1.75	1.00
17:a:1282:VAL:HG11	17:a:1285:ILE:HD11	1.43	1.00
18:b:823:ASN:HB3	18:b:829:ILE:HG23	1.43	1.00
20:d:85:PHE:CZ	20:d:115:ILE:HG12	1.95	1.00
3:Q:138:ILE:HG22	20:d:128:SER:O	1.59	1.00
8:N:206:GLN:CG	9:D:96:UNK:CB	2.39	1.00
17:a:111:ASN:OD1	17:a:216:ILE:HG12	1.62	1.00
17:a:254:PRO:HG2	17:a:266:ASP:CG	1.86	1.00
18:b:87:PRO:HG3	18:b:157:ILE:HD12	1.43	1.00
23:g:10:LEU:HD23	23:g:31:LEU:CD1	1.92	1.00
17:a:81:GLY:CA	17:a:249:PRO:HG3	1.92	1.00
17:a:120:SER:OG	17:a:121:ASN:HB2	1.62	0.99
25:i:4:PHE:HE1	25:i:27:LEU:HD21	0.99	0.99
17:a:202:LEU:CB	17:a:203:PRO:CD	2.38	0.99
17:a:120:SER:HB3	17:a:121:ASN:CA	1.91	0.99
18:b:155:ILE:HD11	18:b:403:PHE:HE2	1.23	0.99
18:b:296:MET:HE3	18:b:372:LEU:HB3	1.03	0.99
23:g:91:ILE:HG12	23:g:143:ASN:OD1	1.61	0.99
25:i:111:GLU:HG2	25:i:112:GLU:N	1.77	0.99
8:N:206:GLN:HG3	9:D:96:UNK:CB	1.92	0.99
17:a:101:ILE:HD11	17:a:217:PHE:CZ	1.97	0.99
17:a:161:PHE:CE2	17:a:165:ASN:ND2	2.31	0.99
17:a:433:ARG:N	17:a:436:TRP:CZ2	2.30	0.99
17:a:775:ILE:C	17:a:775:ILE:HD13	1.85	0.99
17:a:1173:VAL:CG1	17:a:1177:PHE:CE2	2.38	0.99
21:e:198:GLU:HB2	21:e:199:THR:HA	1.44	0.99
17:a:21:PHE:O	17:a:1422:GLY:HA2	1.61	0.99
17:a:1195:LEU:HD21	17:a:1242:ARG:NE	1.76	0.99
22:f:123:LEU:HD22	22:f:137:SER:HA	1.42	0.99
18:b:1062:TYR:CE1	18:b:1069:LYS:HG2	1.97	0.99
17:a:155:SER:CA	17:a:169:ASN:HA	1.91	0.99
18:b:1026:LEU:HB3	18:b:1051:HIS:HD2	1.23	0.99
21:e:100:LYS:O	21:e:101:THR:CG2	2.10	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:d:61:TYR:HE2	23:g:103:ASN:O	1.44	0.99
17:a:119:SER:H	17:a:120:SER:CB	1.75	0.99
18:b:993:GLN:N	18:b:994:GLY:HA2	1.74	0.99
20:d:45:THR:HG21	20:d:49:ILE:CD1	1.92	0.99
17:a:88:LEU:HB2	17:a:243:THR:O	1.60	0.99
20:d:85:PHE:CZ	20:d:115:ILE:CG1	2.46	0.99
22:f:96:PRO:HG3	23:g:19:PHE:HB2	1.42	0.99
23:g:146:LEU:CD1	23:g:164:MET:SD	2.50	0.99
17:a:62:THR:HG21	17:a:75:THR:HG21	1.00	0.98
18:b:703:GLY:O	18:b:704:TYR:HD1	1.45	0.98
25:i:73:LYS:CG	25:i:81:HIS:CD2	2.47	0.98
17:a:42:THR:HG21	17:a:55:LEU:HB3	1.01	0.98
23:g:59:LYS:HB3	23:g:60:GLY:HA2	1.37	0.98
17:a:573:LYS:CB	17:a:574:PRO:HD2	1.91	0.98
23:g:93:THR:O	23:g:140:LYS:HG3	1.62	0.98
24:h:70:GLU:OE1	24:h:70:GLU:HA	1.62	0.98
17:a:148:MET:HE2	17:a:181:THR:OG1	1.63	0.98
18:b:219:ILE:HG22	18:b:220:ALA:N	1.77	0.98
18:b:907:ILE:CD1	18:b:924:ARG:NH2	2.26	0.98
24:h:62:ASN:HB3	24:h:63:LEU:HB3	1.44	0.98
20:d:32:ILE:HD11	20:d:74:THR:HG21	1.45	0.98
17:a:1191:GLN:HB3	17:a:1246:ILE:HG22	1.43	0.98
25:i:73:LYS:N	25:i:81:HIS:CD2	2.30	0.98
17:a:1162:GLN:HE21	17:a:1162:GLN:C	1.70	0.98
25:i:4:PHE:CE1	25:i:27:LEU:CD2	2.45	0.98
26:j:2:ILE:H	26:j:56:ILE:HD11	1.27	0.98
17:a:517:ILE:CG1	17:a:640:TRP:HE1	1.77	0.98
17:a:1151:SER:HA	17:a:1152:ALA:CB	1.93	0.98
17:a:1276:SER:HA	17:a:1277:ILE:HG23	0.99	0.98
18:b:263:ARG:HB3	18:b:322:LYS:HD2	1.46	0.98
25:i:68:LEU:HD23	25:i:69:PRO:HD2	1.42	0.98
17:a:230:LEU:HD13	17:a:237:PRO:CG	1.94	0.98
18:b:307:ALA:HB1	18:b:310:ILE:CD1	1.93	0.98
17:a:1101:VAL:HG13	17:a:1102:PRO:N	1.74	0.97
17:a:1397:ARG:CG	17:a:1398:ALA:H	1.74	0.97
17:a:1403:LEU:HD22	17:a:1432:GLU:HG2	1.44	0.97
18:b:659:PRO:CB	18:b:661:GLN:HE21	1.76	0.97
18:b:879:TYR:HA	18:b:899:ILE:HD11	1.43	0.97
23:g:47:ILE:HD12	23:g:78:VAL:HG12	1.46	0.97
5:T:93:ARG:NH2	19:c:93:ASP:CG	2.22	0.97
17:a:271:LYS:HE2	17:a:328:LEU:CD1	1.94	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:846:ARG:HH11	17:a:1391:THR:HA	0.93	0.97
17:a:1104:LEU:C	17:a:1104:LEU:HD12	1.89	0.97
18:b:102:GLN:HG2	18:b:105:ARG:CZ	1.94	0.97
23:g:80:TRP:HZ3	23:g:107:LEU:CB	1.76	0.97
17:a:1331:THR:HG23	17:a:1332:ARG:HG3	1.45	0.97
18:b:907:ILE:CD1	18:b:924:ARG:CZ	2.42	0.97
19:c:82:VAL:O	19:c:82:VAL:HG12	1.61	0.97
17:a:123:LYS:O	17:a:127:THR:HG23	1.64	0.97
17:a:428:GLY:O	17:a:430:ILE:HG23	1.63	0.97
20:d:27:VAL:HG23	20:d:95:THR:CG2	1.94	0.97
23:g:80:TRP:CZ3	23:g:107:LEU:HB3	1.99	0.97
17:a:42:THR:CG2	17:a:55:LEU:CB	2.42	0.97
17:a:1282:VAL:CG1	17:a:1285:ILE:CD1	2.42	0.97
17:a:1395:ILE:CD1	17:a:1397:ARG:CB	2.41	0.97
19:c:140:SER:O	19:c:141:ARG:HG3	1.64	0.97
20:d:51:MET:HE3	20:d:55:MET:CE	1.94	0.97
23:g:151:THR:HA	23:g:160:ALA:CB	1.93	0.97
3:Q:135:GLU:HB3	20:d:128:SER:CA	1.95	0.97
5:T:38:VAL:CG2	19:c:93:ASP:OD1	2.12	0.97
28:l:55:LYS:HB2	28:l:56:ARG:HA	1.47	0.97
17:a:513:VAL:CG2	17:a:514:PRO:HD3	1.94	0.97
17:a:1117:PRO:O	17:a:1118:SER:O	1.81	0.97
20:d:80:ILE:CD1	20:d:130:LEU:HD11	1.94	0.97
23:g:120:MET:CE	23:g:138:ILE:HD12	1.94	0.97
24:h:72:ALA:HB1	24:h:123:LEU:O	1.63	0.97
17:a:1140:GLN:O	17:a:1280:ARG:HB3	1.64	0.97
17:a:1489:SER:HB3	17:a:1490:PRO:HD3	0.98	0.97
23:g:8:LEU:HD11	23:g:79:LEU:HD11	1.42	0.97
23:g:145:ARG:HG3	23:g:172:LEU:HD21	0.98	0.97
26:j:4:PRO:HG2	26:j:48:MET:HE2	1.44	0.97
27:k:118:VAL:HG22	27:k:119:GLU:H	0.82	0.97
3:Q:135:GLU:CG	20:d:128:SER:CB	2.39	0.96
17:a:64:ASP:C	17:a:67:PHE:CE1	2.43	0.96
17:a:1395:ILE:HD11	17:a:1397:ARG:CD	1.94	0.96
18:b:292:ASN:HA	18:b:293:ASP:HB2	0.97	0.96
19:c:129:SER:C	19:c:130:LEU:HD12	1.89	0.96
23:g:122:PHE:HB3	23:g:131:TYR:CE1	2.00	0.96
18:b:839:LEU:HD13	18:b:840:PHE:HE1	1.27	0.96
23:g:14:LEU:HD12	23:g:30:LYS:HZ3	1.29	0.96
17:a:155:SER:HB3	17:a:169:ASN:CB	1.95	0.96
17:a:192:SER:HB2	17:a:202:LEU:HA	1.44	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1066:MET:HE1	17:a:1442:MET:HA	1.45	0.96
17:a:1392:ARG:O	17:a:1393:HIS:CG	2.18	0.96
20:d:19:PHE:HD2	23:g:81:ARG:HH11	1.09	0.96
17:a:645:PRO:HA	17:a:648:CYS:HB3	1.42	0.96
20:d:45:THR:CG2	20:d:49:ILE:HD11	1.94	0.96
17:a:94:HIS:O	17:a:98:LEU:HG	1.66	0.96
17:a:255:SER:O	17:a:256:ILE:HB	1.64	0.96
17:a:419:ILE:HG21	17:a:425:LYS:CD	1.93	0.96
18:b:200:GLN:NE2	18:b:465:VAL:CG2	2.27	0.96
17:a:166:PRO:HB2	17:a:168:ALA:CB	1.95	0.96
17:a:57:ASP:CB	17:a:58:PRO:CD	2.32	0.96
17:a:77:ALA:HB2	18:b:1105:ARG:HH22	1.30	0.96
19:c:125:SER:O	19:c:126:SER:HB2	1.62	0.96
17:a:195:ARG:CB	17:a:196:GLY:HA2	1.95	0.96
17:a:50:PRO:C	17:a:51:ARG:HG2	1.89	0.96
17:a:381:THR:OG1	17:a:382:TYR:O	1.82	0.96
17:a:1162:GLN:HE21	17:a:1162:GLN:CA	1.79	0.96
17:a:1164:THR:O	17:a:1165:VAL:HG23	1.64	0.96
17:a:1195:LEU:HD11	17:a:1242:ARG:HD3	0.96	0.96
18:b:200:GLN:NE2	18:b:465:VAL:HG23	1.81	0.96
18:b:290:ASP:HA	18:b:292:ASN:HB2	0.97	0.96
23:g:127:ASN:HB3	23:g:128:PRO:HD3	1.47	0.96
25:i:20:LYS:HD3	25:i:21:VAL:HG23	1.44	0.96
17:a:128:GLN:HG2	17:a:139:ALA:CB	1.95	0.95
17:a:242:ILE:HD13	17:a:245:LEU:CD1	1.96	0.95
17:a:359:ILE:HD13	17:a:488:PHE:HD1	1.25	0.95
17:a:1119:LEU:CB	17:a:1314:THR:HG21	1.95	0.95
18:b:288:CYS:HB3	18:b:297:LEU:HD21	1.45	0.95
17:a:106:GLU:OE1	17:a:144:CYS:HB3	1.65	0.95
17:a:517:ILE:CG1	17:a:640:TRP:NE1	2.28	0.95
17:a:946:CYS:HB2	17:a:949:ILE:HD11	1.48	0.95
17:a:1191:GLN:CB	17:a:1246:ILE:HG23	1.95	0.95
17:a:1379:ASP:O	17:a:1383:SER:HB3	1.64	0.95
17:a:25:SER:HB2	17:a:239:TRP:HE1	1.18	0.95
17:a:773:GLN:NE2	17:a:780:ARG:HB2	1.82	0.95
17:a:1397:ARG:HG3	17:a:1398:ALA:N	1.78	0.95
20:d:99:GLU:CA	20:d:124:LEU:CD2	2.44	0.95
17:a:432:LEU:HA	17:a:436:TRP:HZ2	1.23	0.95
17:a:1070:LEU:HD12	17:a:1071:ALA:N	1.81	0.95
17:a:1461:LEU:HB3	17:a:1462:GLY:C	1.91	0.95
18:b:292:ASN:CA	18:b:293:ASP:CB	2.30	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:454:ASP:CG	18:b:455:GLN:CA	2.39	0.95
17:a:154:LEU:HA	17:a:173:GLY:HA2	1.48	0.95
17:a:155:SER:HA	17:a:169:ASN:HA	1.47	0.95
17:a:1125:PRO:HB3	17:a:1128:ALA:C	1.91	0.95
18:b:246:ARG:HG2	18:b:247:ASN:N	1.81	0.95
18:b:291:PRO:HA	18:b:292:ASN:HB3	1.46	0.95
18:b:1066:THR:C	19:c:30:ASN:HD22	1.75	0.95
23:g:80:TRP:CZ3	23:g:107:LEU:CB	2.49	0.95
17:a:124:PHE:O	17:a:128:GLN:HG3	1.66	0.95
18:b:1206:THR:HG23	18:b:1209:HIS:HB2	1.48	0.95
17:a:93:PHE:HB3	17:a:98:LEU:HD11	1.49	0.95
17:a:267:ASP:N	17:a:268:LEU:CB	2.30	0.95
20:d:16:GLY:O	20:d:20:GLU:HG3	1.67	0.95
8:N:402:LEU:HG	8:N:403:HIS:H	1.30	0.95
17:a:30:ARG:HE	17:a:244:VAL:HG22	1.30	0.95
17:a:236:ARG:H	17:a:239:TRP:HE3	1.15	0.95
17:a:646:GLU:CA	17:a:648:CYS:N	2.30	0.95
17:a:178:ALA:C	17:a:180:PRO:HD2	1.92	0.95
17:a:1150:THR:HG22	25:i:48:LEU:CD2	1.94	0.95
18:b:562:ASN:HD21	18:b:608:LYS:HG2	1.32	0.95
19:c:130:LEU:N	19:c:130:LEU:CD1	2.30	0.95
20:d:45:THR:HG21	20:d:49:ILE:HD11	0.98	0.95
17:a:1150:THR:CB	25:i:48:LEU:CD2	2.45	0.95
18:b:246:ARG:CG	18:b:247:ASN:N	2.21	0.95
21:e:199:THR:H	21:e:200:SER:CA	1.80	0.95
24:h:60:THR:HG23	24:h:61:SER:N	1.80	0.95
3:Q:135:GLU:OE2	20:d:124:LEU:HG	1.67	0.94
17:a:1089:TYR:HA	17:a:1090:ALA:HB3	0.96	0.94
18:b:1205:PHE:CE2	18:b:1210:LYS:HB2	2.02	0.94
25:i:6:TYR:O	25:i:14:LEU:HD21	1.67	0.94
17:a:17:GLU:OE1	18:b:1207:LYS:HA	1.67	0.94
17:a:161:PHE:HE2	17:a:165:ASN:HD22	1.04	0.94
17:a:1276:SER:CA	17:a:1277:ILE:CG2	2.30	0.94
18:b:329:VAL:HA	18:b:330:THR:HG23	1.45	0.94
25:i:78:CYS:O	25:i:79:HIS:HB3	1.65	0.94
17:a:770:CYS:O	17:a:771:VAL:HG23	1.66	0.94
18:b:654:ARG:HB3	18:b:655:TYR:HA	0.97	0.94
21:e:199:THR:H	21:e:201:GLY:N	1.66	0.94
23:g:114:HIS:C	23:g:114:HIS:CD2	2.44	0.94
5:T:64:MET:SD	5:T:77:GLU:CG	2.55	0.94
5:T:100:GLY:HA3	5:T:113:ALA:HA	1.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1094:SER:C	17:a:1095:LYS:HG3	1.92	0.94
18:b:212:LYS:CG	18:b:213:LYS:N	2.30	0.94
18:b:243:LEU:O	18:b:244:MET:HG2	1.67	0.94
18:b:323:ARG:HB3	18:b:324:GLY:HA2	0.96	0.94
27:k:76:THR:HA	27:k:77:VAL:HB	1.46	0.94
17:a:1276:SER:N	17:a:1277:ILE:HG23	1.82	0.94
21:e:58:SER:CB	21:e:75:GLU:HA	1.97	0.94
17:a:15:ARG:HD3	17:a:1438:GLN:HE21	1.32	0.94
17:a:26:PRO:HD2	17:a:239:TRP:CD1	2.03	0.94
17:a:398:VAL:CG1	17:a:421:LEU:HD11	1.96	0.94
17:a:1191:GLN:C	17:a:1246:ILE:HG23	1.91	0.94
18:b:972:ARG:CZ	18:b:1080:TYR:HE2	1.79	0.94
20:d:57:LYS:O	20:d:61:TYR:HD1	1.49	0.94
23:g:147:LYS:HD2	23:g:169:LEU:HD11	0.94	0.94
24:h:80:VAL:HA	24:h:95:VAL:HG22	1.50	0.94
3:Q:135:GLU:HB3	20:d:128:SER:HB3	0.95	0.94
17:a:201:ASP:HB3	17:a:206:ARG:HH11	1.14	0.94
17:a:1094:SER:O	17:a:1095:LYS:HG3	1.68	0.94
23:g:14:LEU:HD22	23:g:27:LEU:HD21	1.48	0.94
25:i:25:LEU:CB	25:i:38:ALA:CB	2.45	0.94
25:i:67:THR:O	25:i:67:THR:HG23	1.67	0.94
26:j:42:ARG:HH11	26:j:42:ARG:HG3	1.32	0.94
17:a:117:ILE:HG21	17:a:125:ASN:CB	1.97	0.94
17:a:1101:VAL:CG1	17:a:1102:PRO:N	2.30	0.94
17:a:205:LYS:C	17:a:206:ARG:HD2	1.93	0.93
17:a:1098:THR:O	17:a:1099:LEU:HB2	1.66	0.93
17:a:1485:PRO:HD2	20:d:43:ARG:NH1	1.81	0.93
18:b:214:ALA:HB1	18:b:215:ALA:HB2	1.49	0.93
20:d:32:ILE:HD11	20:d:74:THR:CG2	1.94	0.93
17:a:81:GLY:CA	17:a:249:PRO:CG	2.45	0.93
17:a:341:ARG:NH2	18:b:1190:LEU:HD13	1.83	0.93
17:a:775:ILE:HG13	17:a:1089:TYR:CD1	2.03	0.93
19:c:80:PRO:HB2	19:c:81:PRO:CD	1.98	0.93
17:a:208:LEU:HD22	17:a:209:SER:H	1.30	0.93
17:a:721:GLU:OE2	17:a:780:ARG:HD3	1.69	0.93
18:b:216:PRO:HB2	18:b:217:SER:HA	1.49	0.93
18:b:1054:GLN:CB	18:b:1056:ARG:HE	1.80	0.93
17:a:90:LYS:NZ	17:a:282:VAL:CG1	2.31	0.93
17:a:174:GLY:O	17:a:175:CYS:HB2	1.67	0.93
17:a:177:ALA:CB	17:a:178:ALA:CB	2.37	0.93
17:a:1091:GLY:CA	17:a:1092:VAL:CB	2.33	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:254:THR:HG22	18:b:302:PRO:HB2	0.94	0.93
19:c:130:LEU:HD23	19:c:132:HIS:HD2	1.30	0.93
17:a:30:ARG:HE	17:a:244:VAL:CG2	1.81	0.93
18:b:654:ARG:HA	18:b:655:TYR:O	1.69	0.93
17:a:10:SER:HB3	18:b:1168:TYR:OH	1.68	0.93
17:a:640:TRP:O	17:a:644:GLY:HA2	1.68	0.93
17:a:808:ASN:HB2	17:a:813:GLY:O	1.68	0.93
19:c:9:ILE:HD11	27:k:111:LYS:HG3	1.50	0.93
5:T:93:ARG:NH2	19:c:93:ASP:OD1	2.01	0.93
17:a:40:PRO:CB	17:a:276:ILE:CG2	2.45	0.93
20:d:10:ALA:HB1	23:g:85:GLY:HA3	1.49	0.93
20:d:99:GLU:HG2	20:d:124:LEU:CD2	1.99	0.93
18:b:323:ARG:CB	18:b:324:GLY:HA2	1.93	0.93
19:c:253:GLN:HE22	27:k:98:GLU:HG3	1.32	0.93
9:D:36:UNK:HA	9:D:39:UNK:CB	1.99	0.93
17:a:708:LEU:CB	17:a:709:LYS:CA	2.30	0.93
18:b:290:ASP:CB	18:b:292:ASN:CB	2.47	0.93
23:g:133:GLY:CA	23:g:134:GLU:CB	2.37	0.93
23:g:151:THR:HG22	23:g:160:ALA:CB	1.99	0.93
17:a:15:ARG:HH11	17:a:1438:GLN:NE2	1.66	0.92
18:b:488:ILE:CD1	18:b:490:ARG:HG2	1.99	0.92
17:a:236:ARG:N	17:a:239:TRP:HE3	1.67	0.92
17:a:605:ASN:HB2	17:a:606:PRO:C	1.94	0.92
17:a:1194:TRP:CH2	17:a:1262:GLU:HB3	2.00	0.92
5:T:38:VAL:HG22	19:c:93:ASP:CG	1.94	0.92
17:a:1290:MET:CE	17:a:1312:LEU:HD23	1.94	0.92
19:c:80:PRO:CB	19:c:81:PRO:HD3	1.98	0.92
17:a:59:ARG:H	17:a:60:LEU:HA	1.33	0.92
17:a:127:THR:HA	17:a:130:TYR:HD2	1.32	0.92
17:a:1081:GLN:HE22	17:a:1368:TYR:HE2	1.14	0.92
17:a:1191:GLN:O	17:a:1246:ILE:HG23	1.66	0.92
17:a:70:GLN:O	17:a:71:THR:HB	1.69	0.92
18:b:101:PRO:HG3	18:b:111:TYR:CE1	2.05	0.92
23:g:46:ILE:CA	23:g:79:LEU:CD2	2.47	0.92
23:g:127:ASN:HB2	23:g:128:PRO:HD2	1.48	0.92
26:j:4:PRO:O	26:j:5:ILE:HG22	1.70	0.92
17:a:638:THR:HG23	17:a:965:ARG:NH2	1.85	0.92
17:a:1077:GLU:N	17:a:1078:PRO:HD2	1.85	0.92
18:b:659:PRO:HB3	18:b:661:GLN:CG	1.99	0.92
18:b:1180:SER:HB3	18:b:1209:HIS:HD2	1.33	0.92
17:a:119:SER:N	17:a:120:SER:HA	1.75	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:166:PRO:C	17:a:168:ALA:CB	2.42	0.92
17:a:117:ILE:CG2	17:a:125:ASN:HB2	1.99	0.92
17:a:646:GLU:HA	17:a:648:CYS:N	1.85	0.92
17:a:1493:ASP:OD1	20:d:33:LEU:HD22	1.68	0.92
18:b:753:SER:HB3	18:b:754:PRO:HD3	1.52	0.92
18:b:1080:TYR:HD1	18:b:1080:TYR:H	1.14	0.92
17:a:161:PHE:HE2	17:a:165:ASN:ND2	1.68	0.92
18:b:659:PRO:CB	18:b:661:GLN:HG2	2.00	0.92
21:e:101:THR:HG21	21:e:126:THR:HG22	0.93	0.92
23:g:146:LEU:HG	23:g:164:MET:SD	2.08	0.92
17:a:94:HIS:HD2	17:a:97:PHE:HB2	1.35	0.92
17:a:378:LYS:HA	17:a:441:HIS:CD2	2.05	0.92
18:b:655:TYR:HD1	18:b:655:TYR:H	1.17	0.92
18:b:705:GLU:OE1	18:b:707:LYS:HE2	1.69	0.92
25:i:73:LYS:HG3	25:i:81:HIS:HD2	1.34	0.92
17:a:15:ARG:HH21	23:g:64:PRO:HG2	1.33	0.91
17:a:1119:LEU:HB3	17:a:1314:THR:HG21	1.48	0.91
17:a:1478:LEU:HD23	20:d:45:THR:O	1.68	0.91
18:b:386:HIS:HB3	18:b:389:LYS:N	1.85	0.91
25:i:73:LYS:O	25:i:74:GLU:HB2	1.68	0.91
17:a:254:PRO:HB3	18:b:1103:LEU:HD21	1.49	0.91
17:a:341:ARG:HH22	18:b:1190:LEU:HD13	1.31	0.91
18:b:281:ARG:HG3	25:i:6:TYR:CE2	2.05	0.91
23:g:39:CYS:SG	23:g:45:TYR:CG	2.63	0.91
25:i:53:VAL:HG13	25:i:56:THR:HB	1.53	0.91
17:a:23:ILE:HG13	17:a:1419:ALA:O	1.70	0.91
17:a:72:CYS:HB3	18:b:1161:ALA:O	1.70	0.91
17:a:75:THR:HB	17:a:76:MET:HA	1.52	0.91
17:a:263:ARG:HG3	17:a:263:ARG:NH2	1.73	0.91
18:b:219:ILE:CG2	18:b:220:ALA:H	1.82	0.91
23:g:10:LEU:HD22	23:g:35:VAL:HG23	1.48	0.91
17:a:5:GLN:O	17:a:8:PRO:HD3	1.70	0.91
17:a:81:GLY:C	17:a:249:PRO:HG3	1.94	0.91
17:a:775:ILE:C	17:a:776:VAL:CG1	2.43	0.91
17:a:1119:LEU:CG	17:a:1314:THR:HG21	2.01	0.91
17:a:350:ARG:O	17:a:351:VAL:HB	1.70	0.91
17:a:419:ILE:HG22	17:a:425:LYS:HD2	1.51	0.91
25:i:73:LYS:HG2	25:i:81:HIS:CD2	2.06	0.91
17:a:42:THR:CG2	17:a:55:LEU:HB3	1.97	0.91
17:a:314:ILE:O	17:a:314:ILE:HG22	1.66	0.91
18:b:1113:ARG:HA	18:b:1114:ASP:HB2	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:90:LYS:HZ1	17:a:282:VAL:CG1	1.81	0.91
23:g:6:LYS:NZ	23:g:43:TYR:HE1	1.68	0.91
23:g:164:MET:HE1	23:g:170:GLY:HA2	1.51	0.91
20:d:22:GLU:CD	23:g:6:LYS:HB2	1.96	0.91
23:g:35:VAL:HG13	23:g:46:ILE:HD13	1.51	0.91
17:a:368:ASP:HA	17:a:513:VAL:HG21	1.51	0.91
17:a:1146:LEU:HD12	17:a:1274:LEU:HA	1.49	0.91
18:b:659:PRO:CA	18:b:661:GLN:HG2	1.99	0.91
20:d:99:GLU:CG	20:d:124:LEU:CD2	2.49	0.91
26:j:7:CYS:SG	26:j:45:CYS:HB3	2.11	0.91
26:j:43:TYR:O	26:j:46:ARG:HG2	1.71	0.91
5:T:93:ARG:CD	19:c:92:CYS:N	2.19	0.90
17:a:40:PRO:CG	17:a:276:ILE:CG2	2.35	0.90
17:a:1101:VAL:HG12	17:a:1102:PRO:HD3	0.92	0.90
18:b:212:LYS:HZ2	18:b:381:PRO:HG2	1.36	0.90
20:d:85:PHE:HE1	20:d:114:LYS:HB3	1.36	0.90
17:a:128:GLN:CG	17:a:139:ALA:HB1	2.01	0.90
17:a:155:SER:CB	17:a:169:ASN:CB	2.50	0.90
17:a:195:ARG:CG	17:a:196:GLY:HA2	2.01	0.90
18:b:287:ILE:HG12	18:b:368:ILE:HD11	1.53	0.90
18:b:486:THR:H	18:b:487:PRO:HD3	1.35	0.90
18:b:817:LEU:HD22	18:b:819:TYR:HB2	1.52	0.90
17:a:1164:THR:HG22	17:a:1242:ARG:HH22	1.35	0.90
17:a:1192:SER:N	17:a:1193:PRO:HD3	1.86	0.90
18:b:207:ILE:HA	18:b:208:VAL:HB	1.53	0.90
17:a:108:VAL:HG13	17:a:114:LYS:N	1.86	0.90
17:a:778:GLY:HA2	17:a:1091:GLY:C	1.96	0.90
20:d:11:ALA:CA	20:d:12:GLN:CB	2.40	0.90
20:d:98:CYS:HA	20:d:99:GLU:CG	2.00	0.90
23:g:130:ASN:HB3	23:g:139:GLU:HG3	1.54	0.90
17:a:359:ILE:HD13	17:a:488:PHE:CD1	2.06	0.90
17:a:1165:VAL:CG1	17:a:1166:ILE:N	2.30	0.90
17:a:1194:TRP:HH2	17:a:1262:GLU:HB2	1.35	0.90
23:g:97:LYS:HA	23:g:131:TYR:OH	1.70	0.90
23:g:164:MET:CE	23:g:170:GLY:CA	2.49	0.90
17:a:517:ILE:HD11	17:a:640:TRP:HD1	0.97	0.90
18:b:488:ILE:HG22	18:b:489:GLY:CA	1.99	0.90
20:d:51:MET:HE1	20:d:55:MET:CE	2.02	0.90
25:i:25:LEU:CB	25:i:38:ALA:HB2	2.01	0.90
18:b:659:PRO:HA	18:b:661:GLN:HG2	1.50	0.90
18:b:752:GLN:O	18:b:754:PRO:HD2	1.72	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:135:GLU:CA	20:d:128:SER:HB2	2.01	0.90
8:N:199:VAL:HG13	8:N:217:TRP:CG	2.04	0.90
17:a:71:THR:O	17:a:72:CYS:SG	2.30	0.90
17:a:517:ILE:HG13	17:a:640:TRP:NE1	1.87	0.90
18:b:278:VAL:N	18:b:279:PRO:HD2	1.86	0.90
17:a:154:LEU:CA	17:a:173:GLY:HA2	2.02	0.90
17:a:192:SER:HB2	17:a:201:ASP:O	1.71	0.90
17:a:271:LYS:CD	17:a:328:LEU:HG	2.01	0.90
18:b:290:ASP:CA	18:b:292:ASN:CB	2.46	0.90
23:g:35:VAL:CG1	23:g:46:ILE:HD13	2.01	0.90
26:j:43:TYR:HB2	26:j:44:CYS:CA	2.02	0.90
17:a:374:ARG:HB2	17:a:374:ARG:NH1	1.87	0.90
25:i:4:PHE:HE1	25:i:27:LEU:CD2	1.84	0.90
17:a:95:ILE:HG21	17:a:314:ILE:CD1	2.01	0.89
17:a:1404:MET:SD	17:a:1429:GLY:HA3	2.12	0.89
17:a:1450:TYR:HD1	23:g:60:GLY:O	1.55	0.89
20:d:97:CYS:O	20:d:98:CYS:SG	2.30	0.89
21:e:199:THR:N	21:e:200:SER:HA	1.85	0.89
5:T:93:ARG:HG2	19:c:90:CYS:O	1.70	0.89
17:a:42:THR:CG2	17:a:43:MET:H	1.78	0.89
17:a:432:LEU:HD23	17:a:436:TRP:CZ2	2.07	0.89
18:b:273:ARG:NE	18:b:310:ILE:HD12	1.87	0.89
24:h:63:LEU:HD23	24:h:63:LEU:C	1.93	0.89
17:a:162:ASP:HA	17:a:165:ASN:CB	2.03	0.89
17:a:1299:ILE:HD11	17:a:1305:GLU:HG3	1.54	0.89
17:a:1496:PHE:CE2	20:d:33:LEU:HG	2.07	0.89
18:b:155:ILE:HD11	18:b:403:PHE:CE2	2.08	0.89
18:b:605:ILE:CB	25:i:61:ASP:HB2	2.03	0.89
18:b:712:PRO:O	18:b:714:GLN:HG3	1.71	0.89
7:V:31:ARG:HD2	7:V:59:HIS:HA	1.54	0.89
17:a:48:GLN:CG	17:a:50:PRO:HG3	2.02	0.89
17:a:157:GLY:HA2	17:a:168:ALA:HB1	1.54	0.89
17:a:1496:PHE:HD2	20:d:33:LEU:CD2	1.81	0.89
18:b:212:LYS:CG	18:b:213:LYS:H	1.86	0.89
20:d:58:THR:CB	20:d:62:PHE:CE2	2.50	0.89
17:a:946:CYS:HB2	17:a:949:ILE:HD13	1.53	0.89
18:b:216:PRO:CB	18:b:217:SER:HA	2.00	0.89
17:a:108:VAL:HG12	17:a:113:GLY:HA2	0.90	0.89
18:b:1108:VAL:HG22	18:b:1109:GLU:H	1.37	0.89
20:d:24:MET:HG3	23:g:4:PHE:CE1	2.08	0.89
4:R:36:TRP:HE1	4:R:126:ILE:HG12	1.35	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:120:SER:N	17:a:121:ASN:C	2.30	0.89
17:a:167:SER:CA	17:a:168:ALA:HB3	2.02	0.89
18:b:674:ILE:HD12	18:b:674:ILE:O	1.73	0.89
19:c:130:LEU:HD23	19:c:132:HIS:CD2	2.07	0.89
17:a:98:LEU:O	17:a:101:ILE:HG22	1.72	0.89
17:a:195:ARG:HB3	17:a:196:GLY:HA2	1.53	0.89
17:a:728:LEU:HD13	17:a:805:PHE:HD2	1.37	0.89
17:a:1412:VAL:CG1	17:a:1413:GLU:H	1.80	0.89
17:a:207:LEU:HD22	17:a:207:LEU:N	1.86	0.89
23:g:66:GLN:O	23:g:68:PHE:CE1	2.25	0.89
24:h:39:THR:HG23	24:h:103:ALA:HB3	1.55	0.89
17:a:90:LYS:HE3	17:a:299:GLU:HG2	1.53	0.88
17:a:162:ASP:HB3	17:a:166:PRO:HD3	1.55	0.88
17:a:1219:ILE:HD12	17:a:1229:THR:HG21	1.53	0.88
17:a:1496:PHE:HB3	20:d:29:GLU:OE2	1.73	0.88
18:b:464:GLY:HA2	18:b:465:VAL:HB	1.54	0.88
25:i:75:CYS:O	25:i:75:CYS:SG	2.30	0.88
20:d:96:LEU:O	20:d:97:CYS:SG	2.30	0.88
25:i:22:ASP:O	25:i:23:ARG:HB2	1.71	0.88
25:i:64:THR:O	25:i:66:PRO:HD3	1.74	0.88
8:N:199:VAL:HG12	8:N:217:TRP:HE3	1.16	0.88
17:a:177:ALA:CA	17:a:178:ALA:CB	2.49	0.88
17:a:432:LEU:CA	17:a:436:TRP:CZ2	2.56	0.88
18:b:236:ILE:O	18:b:237:SER:HB3	1.71	0.88
18:b:991:SER:HB2	18:b:1062:TYR:H	1.38	0.88
18:b:508:VAL:O	18:b:526:SER:HB3	1.72	0.88
17:a:202:LEU:HB2	17:a:203:PRO:CD	2.01	0.88
17:a:457:HIS:CG	17:a:1077:GLU:OE2	2.27	0.88
19:c:173:PRO:HB2	19:c:244:ILE:HD11	1.54	0.88
8:N:206:GLN:NE2	9:D:96:UNK:CB	2.37	0.88
17:a:116:LYS:HD3	17:a:116:LYS:H	1.34	0.88
17:a:380:LEU:HD12	17:a:442:ILE:CD1	2.02	0.88
17:a:573:LYS:HB3	17:a:574:PRO:HD2	1.56	0.88
17:a:1461:LEU:HB3	17:a:1462:GLY:HA3	1.51	0.88
18:b:291:PRO:CA	18:b:292:ASN:CB	2.40	0.88
18:b:486:THR:HG21	18:b:521:LEU:HB3	1.56	0.88
23:g:151:THR:CA	23:g:160:ALA:HB2	2.03	0.88
18:b:1108:VAL:HG22	18:b:1109:GLU:N	1.89	0.88
21:e:171:PRO:HB2	21:e:207:ARG:HG2	1.54	0.88
23:g:5:LEU:HD11	23:g:50:LEU:HD11	0.88	0.88
25:i:73:LYS:H	25:i:81:HIS:CD2	1.91	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:i:85:PHE:O	25:i:86:TYR:HB3	1.73	0.88
17:a:177:ALA:HB3	17:a:179:GLN:CG	2.03	0.88
21:e:190:VAL:HG22	21:e:208:ILE:HG22	1.56	0.88
23:g:133:GLY:HA3	23:g:134:GLU:HB3	0.88	0.88
25:i:65:ASP:OD2	25:i:68:LEU:HD12	1.74	0.88
17:a:106:GLU:HB3	17:a:144:CYS:HG	1.06	0.88
17:a:381:THR:CA	17:a:382:TYR:HB2	1.97	0.88
5:T:38:VAL:HG22	19:c:93:ASP:OD1	1.73	0.88
5:T:94:GLN:CG	19:c:89:ASN:HB3	2.04	0.88
17:a:211:LEU:O	17:a:215:THR:HG23	1.72	0.88
17:a:1397:ARG:CG	17:a:1398:ALA:N	2.29	0.88
18:b:27:GLU:OE1	18:b:666:THR:HB	1.74	0.88
18:b:715:ARG:HG2	18:b:715:ARG:HH11	1.36	0.88
17:a:271:LYS:HD3	17:a:322:GLN:NE2	1.89	0.87
17:a:507:ILE:HA	17:a:511:THR:CG2	2.04	0.87
17:a:1162:GLN:NE2	17:a:1162:GLN:CA	2.33	0.87
18:b:427:GLU:O	18:b:428:PHE:HB2	1.73	0.87
25:i:73:LYS:HG2	25:i:81:HIS:HD2	1.38	0.87
17:a:587:ILE:HD13	17:a:655:ILE:HG12	1.54	0.87
18:b:320:ILE:HG22	18:b:320:ILE:O	1.74	0.87
18:b:538:ALA:HB3	18:b:539:PRO:HD3	1.54	0.87
5:T:38:VAL:CG2	19:c:93:ASP:CG	2.47	0.87
5:T:78:PRO:HA	5:T:79:GLU:HB2	1.53	0.87
17:a:214:HIS:HB2	17:a:241:ILE:HD13	1.56	0.87
17:a:374:ARG:HH11	17:a:374:ARG:CB	1.84	0.87
17:a:1295:ILE:HG22	17:a:1307:ALA:O	1.74	0.87
17:a:1472:GLY:O	17:a:1473:MET:HG2	1.74	0.87
18:b:287:ILE:CG1	18:b:368:ILE:HD11	2.04	0.87
17:a:150:CYS:HB2	17:a:176:GLY:CA	2.04	0.87
17:a:343:ARG:HE	17:a:1409:GLU:CD	1.82	0.87
17:a:651:PHE:CZ	17:a:655:ILE:HD11	2.08	0.87
17:a:708:LEU:HB3	17:a:709:LYS:HA	0.89	0.87
17:a:1485:PRO:O	17:a:1486:TYR:HB2	1.74	0.87
18:b:287:ILE:CD1	18:b:368:ILE:HD11	2.03	0.87
17:a:257:SER:HA	17:a:263:ARG:HA	1.57	0.87
17:a:947:LYS:HB3	17:a:951:PRO:CD	2.03	0.87
21:e:14:ALA:HA	21:e:17:THR:HG22	1.54	0.87
17:a:521:GLN:HG3	17:a:1074:SER:CB	2.03	0.87
17:a:1089:TYR:N	17:a:1090:ALA:CB	2.37	0.87
17:a:1191:GLN:CB	17:a:1246:ILE:CG2	2.49	0.87
18:b:291:PRO:HA	18:b:292:ASN:HB2	1.16	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:659:PRO:HA	18:b:660:GLU:O	1.73	0.87
20:d:97:CYS:C	20:d:98:CYS:SG	2.58	0.87
8:N:189:CYS:CB	8:N:197:PHE:HD2	1.86	0.87
17:a:170:MET:HG3	17:a:170:MET:O	1.71	0.87
17:a:236:ARG:N	17:a:239:TRP:CE3	2.42	0.87
17:a:1081:GLN:NE2	17:a:1368:TYR:CE2	2.42	0.87
17:a:1119:LEU:HG	17:a:1314:THR:CG2	2.04	0.87
17:a:1192:SER:H	17:a:1193:PRO:CD	1.87	0.87
17:a:120:SER:H	17:a:121:ASN:C	1.83	0.87
17:a:322:GLN:OE1	17:a:328:LEU:CG	2.22	0.87
17:a:1223:PHE:CE2	17:a:1273:MET:SD	2.68	0.87
17:a:1489:SER:CB	17:a:1490:PRO:CD	2.40	0.87
18:b:386:HIS:CD2	18:b:388:GLY:HA3	2.08	0.87
18:b:1108:VAL:CG1	18:b:1115:GLY:O	2.23	0.87
17:a:846:ARG:CG	17:a:1390:ILE:HG22	2.05	0.87
25:i:65:ASP:CG	25:i:68:LEU:HD12	1.99	0.87
8:N:199:VAL:HG11	8:N:217:TRP:CG	2.06	0.86
17:a:42:THR:HG21	17:a:55:LEU:CG	2.05	0.86
17:a:208:LEU:CD1	17:a:208:LEU:H	1.87	0.86
17:a:781:ILE:HG21	17:a:803:ARG:HA	1.55	0.86
4:R:33:LEU:HB3	4:R:63:GLU:HA	1.54	0.86
17:a:192:SER:CB	17:a:202:LEU:HA	2.05	0.86
17:a:425:LYS:HZ1	17:a:430:ILE:HG13	1.38	0.86
17:a:740:GLU:OE2	17:a:764:ILE:HB	1.74	0.86
18:b:180:CYS:SG	18:b:772:THR:HG22	2.15	0.86
23:g:80:TRP:HZ3	23:g:107:LEU:HB2	1.37	0.86
17:a:260:GLY:CA	18:b:924:ARG:NE	2.38	0.86
17:a:1450:TYR:CD1	23:g:60:GLY:C	2.51	0.86
18:b:290:ASP:CB	18:b:292:ASN:ND2	2.37	0.86
18:b:508:VAL:HA	18:b:509:CYS:CB	2.03	0.86
18:b:752:GLN:HG3	18:b:1010:MET:HE3	1.57	0.86
18:b:819:TYR:O	18:b:820:SER:HB3	1.75	0.86
18:b:830:MET:HG3	18:b:999:ILE:HG22	1.54	0.86
18:b:907:ILE:HD13	18:b:924:ARG:CZ	2.04	0.86
18:b:907:ILE:HD11	18:b:924:ARG:CZ	2.05	0.86
18:b:943:VAL:HG22	18:b:953:VAL:HG13	1.56	0.86
20:d:43:ARG:O	20:d:44:GLU:HG3	1.75	0.86
17:a:1085:ASN:HA	17:a:1088:HIS:CD2	2.11	0.86
17:a:1179:ILE:N	17:a:1180:PRO:HD2	1.91	0.86
17:a:1320:THR:HG23	17:a:1321:GLU:H	1.37	0.86
18:b:1026:LEU:HB3	18:b:1051:HIS:CD2	2.11	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:1113:ARG:HG3	18:b:1113:ARG:O	1.73	0.86
21:e:199:THR:H	21:e:200:SER:HA	1.40	0.86
17:a:1075:ILE:O	17:a:1078:PRO:HG2	1.75	0.86
23:g:149:VAL:HG21	23:g:163:THR:HG23	1.56	0.86
5:T:10:SER:HB3	5:T:154:ASN:HB3	1.58	0.86
17:a:43:MET:O	17:a:43:MET:HG2	1.72	0.86
17:a:95:ILE:HG13	17:a:314:ILE:HD11	1.58	0.86
17:a:119:SER:N	17:a:120:SER:CA	2.30	0.86
17:a:1100:GLY:O	17:a:1102:PRO:HD2	1.73	0.86
18:b:263:ARG:HB3	18:b:322:LYS:CD	2.04	0.86
8:N:532:LEU:HA	8:N:536:GLY:H	1.39	0.86
17:a:205:LYS:HG3	17:a:206:ARG:NE	1.91	0.86
17:a:775:ILE:HD13	17:a:776:VAL:N	1.89	0.86
17:a:1282:VAL:CG1	17:a:1285:ILE:HD12	2.04	0.86
21:e:27:TYR:CE2	21:e:63:PRO:HG3	2.10	0.86
17:a:1110:VAL:HG11	17:a:1387:LEU:CD1	2.04	0.86
19:c:137:ASP:OD1	19:c:140:SER:HB2	1.74	0.86
17:a:353:PHE:CE1	17:a:381:THR:O	2.29	0.86
18:b:229:LEU:CA	18:b:230:GLU:CB	2.30	0.86
18:b:815:ALA:O	18:b:1000:ILE:HB	1.75	0.86
20:d:99:GLU:CB	20:d:124:LEU:CD2	2.53	0.86
17:a:50:PRO:C	17:a:51:ARG:CG	2.48	0.85
17:a:267:ASP:HB2	17:a:268:LEU:CB	1.99	0.85
17:a:945:LEU:O	17:a:949:ILE:HG23	1.76	0.85
17:a:1406:CYS:SG	17:a:1415:LEU:CD2	2.64	0.85
17:a:153:GLY:HA2	17:a:174:GLY:HA3	1.57	0.85
17:a:785:PHE:H	17:a:785:PHE:HD1	1.23	0.85
17:a:846:ARG:HH11	17:a:1391:THR:C	1.84	0.85
17:a:1071:ALA:CB	17:a:1373:HIS:HD2	1.85	0.85
17:a:64:ASP:C	17:a:67:PHE:CD1	2.53	0.85
17:a:208:LEU:CD1	17:a:208:LEU:N	2.38	0.85
17:a:350:ARG:HD3	18:b:1117:LEU:O	1.76	0.85
23:g:122:PHE:HB3	23:g:131:TYR:HE1	1.41	0.85
17:a:21:PHE:CZ	17:a:1403:LEU:HD12	2.12	0.85
17:a:267:ASP:CA	17:a:268:LEU:CB	2.50	0.85
18:b:307:ALA:O	18:b:310:ILE:HG13	1.76	0.85
5:T:93:ARG:HD3	19:c:91:ASP:CA	2.07	0.85
17:a:49:ARG:N	17:a:50:PRO:CD	2.38	0.85
17:a:781:ILE:HG12	17:a:821:PHE:CD1	2.12	0.85
17:a:375:SER:HB3	27:k:2:ASN:ND2	1.91	0.85
17:a:1442:MET:HA	17:a:1442:MET:HE3	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:488:ILE:CG2	18:b:489:GLY:CA	2.49	0.85
18:b:867:VAL:HG22	18:b:869:SER:OG	1.77	0.85
19:c:87:THR:HG21	19:c:161:LYS:HD3	1.57	0.85
20:d:24:MET:SD	20:d:88:PHE:HA	2.15	0.85
20:d:26:THR:HG1	20:d:29:GLU:HB3	1.37	0.85
17:a:728:LEU:HD22	17:a:805:PHE:CE2	2.10	0.85
17:a:1085:ASN:OD1	17:a:1088:HIS:CD2	2.29	0.85
18:b:659:PRO:HB3	18:b:661:GLN:HG2	1.57	0.85
18:b:703:GLY:O	18:b:704:TYR:CD1	2.30	0.85
20:d:70:THR:OG1	20:d:73:ALA:HB2	1.77	0.85
17:a:271:LYS:HD3	17:a:328:LEU:HG	1.58	0.85
17:a:780:ARG:NH1	17:a:803:ARG:HH21	1.75	0.85
17:a:810:TYR:HE2	18:b:751:ASN:O	1.59	0.85
18:b:199:ALA:HB3	18:b:484:THR:HB	1.56	0.85
18:b:1058:PHE:CE2	19:c:193:TRP:HD1	1.95	0.85
23:g:46:ILE:HG22	23:g:46:ILE:O	1.75	0.85
25:i:87:GLN:HE22	25:i:97:MET:HE3	1.39	0.85
17:a:432:LEU:CA	17:a:436:TRP:HZ2	1.89	0.85
17:a:1172:PHE:O	17:a:1176:PHE:CD2	2.30	0.85
17:a:810:TYR:CE2	18:b:751:ASN:O	2.29	0.85
17:a:950:PHE:HB2	17:a:951:PRO:HD3	1.55	0.85
17:a:1451:LEU:HD21	23:g:62:VAL:CG2	2.07	0.85
18:b:220:ALA:O	18:b:221:TYR:HB2	1.76	0.85
19:c:249:LEU:HD12	19:c:249:LEU:N	1.90	0.85
21:e:119:ALA:HB2	21:e:127:ILE:HD11	1.58	0.85
17:a:322:GLN:OE1	17:a:328:LEU:HB2	1.77	0.84
17:a:780:ARG:HH11	17:a:803:ARG:NH2	1.74	0.84
17:a:1183:GLU:O	17:a:1186:GLU:HG2	1.77	0.84
21:e:45:HIS:CE1	21:e:57:LEU:CD1	2.60	0.84
23:g:46:ILE:CG1	23:g:79:LEU:HD21	2.07	0.84
23:g:164:MET:HE2	23:g:170:GLY:HA2	1.58	0.84
17:a:30:ARG:HG3	17:a:244:VAL:HG21	1.58	0.84
17:a:66:GLN:C	17:a:67:PHE:CD1	2.55	0.84
17:a:266:ASP:CA	17:a:267:ASP:HB2	2.07	0.84
17:a:1195:LEU:HD21	17:a:1242:ARG:CZ	2.07	0.84
17:a:1395:ILE:HD12	17:a:1397:ARG:CB	2.02	0.84
17:a:1450:TYR:O	17:a:1451:LEU:HD23	1.76	0.84
18:b:166:LEU:O	18:b:169:VAL:HG23	1.77	0.84
20:d:25:LEU:HD12	23:g:5:LEU:HB2	1.57	0.84
23:g:52:SER:N	23:g:55:ILE:CD1	2.32	0.84
25:i:53:VAL:HG12	25:i:56:THR:CB	2.06	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:i:69:PRO:HB2	25:i:85:PHE:CZ	2.12	0.84
18:b:281:ARG:HG3	25:i:6:TYR:CE1	2.11	0.84
17:a:721:GLU:OE2	17:a:780:ARG:CD	2.24	0.84
18:b:189:ILE:O	18:b:189:ILE:HG13	1.76	0.84
23:g:138:ILE:CG1	23:g:171:VAL:HG22	2.06	0.84
17:a:351:VAL:CG1	17:a:352:ASP:N	2.40	0.84
17:a:869:ILE:HD11	17:a:872:PHE:CE1	2.12	0.84
20:d:67:ARG:NH1	20:d:97:CYS:SG	2.50	0.84
20:d:96:LEU:C	20:d:97:CYS:SG	2.60	0.84
17:a:381:THR:CA	17:a:382:TYR:HB3	2.03	0.84
25:i:111:GLU:O	25:i:112:GLU:HB2	1.75	0.84
17:a:208:LEU:N	17:a:208:LEU:HD12	1.92	0.84
17:a:316:GLY:O	17:a:317:GLN:HB2	1.75	0.84
20:d:51:MET:HE1	20:d:55:MET:HE2	1.57	0.84
17:a:126:ASP:O	17:a:130:TYR:CD2	2.30	0.84
17:a:183:ARG:CZ	17:a:203:PRO:HB2	2.08	0.84
18:b:816:ILE:HG12	18:b:1001:ILE:HD11	1.58	0.84
17:a:395:GLN:HG3	17:a:432:LEU:HD12	1.59	0.84
17:a:1173:VAL:O	17:a:1177:PHE:CD2	2.30	0.84
18:b:323:ARG:CB	18:b:324:GLY:HA3	2.08	0.84
21:e:101:THR:CG2	21:e:126:THR:CG2	2.51	0.84
22:f:93:MET:HE1	23:g:66:GLN:O	1.76	0.84
25:i:111:GLU:CG	25:i:112:GLU:N	2.36	0.84
17:a:342:LEU:HD11	17:a:1409:GLU:HG2	1.60	0.84
17:a:857:ARG:CG	17:a:857:ARG:HH11	1.90	0.84
17:a:1496:PHE:CG	20:d:29:GLU:HG2	2.12	0.84
18:b:1205:PHE:HE2	18:b:1210:LYS:HB2	1.37	0.84
20:d:22:GLU:OE2	23:g:6:LYS:HB2	1.78	0.84
20:d:99:GLU:HA	20:d:124:LEU:HD22	1.59	0.84
25:i:85:PHE:HB2	25:i:99:LEU:HD21	1.60	0.84
17:a:338:LYS:CG	17:a:339:GLU:H	1.90	0.83
17:a:341:ARG:HA	17:a:345:ASN:HB2	1.58	0.83
17:a:551:ALA:HA	17:a:553:MET:N	1.93	0.83
17:a:1450:TYR:CD1	23:g:60:GLY:O	2.31	0.83
18:b:965:ILE:HD11	18:b:981:MET:HE2	1.57	0.83
23:g:6:LYS:HZ3	23:g:43:TYR:HE1	0.84	0.83
1:F:182:GLN:HE22	6:K:87:VAL:HG13	1.43	0.83
5:T:93:ARG:HG3	19:c:90:CYS:O	1.77	0.83
8:N:218:ILE:CG2	8:N:245:ASN:HD21	1.87	0.83
17:a:922:GLU:CB	17:a:923:ASN:HA	2.06	0.83
17:a:1161:PRO:HG2	17:a:1190:LYS:CD	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:48:GLN:C	17:a:50:PRO:HD2	2.03	0.83
17:a:770:CYS:O	17:a:771:VAL:CG2	2.26	0.83
17:a:939:VAL:O	17:a:943:GLU:HG3	1.78	0.83
20:d:26:THR:OG1	20:d:29:GLU:CB	2.20	0.83
22:f:137:SER:OG	22:f:140:GLU:HB2	1.77	0.83
25:i:4:PHE:CD1	25:i:27:LEU:HD21	2.13	0.83
17:a:345:ASN:O	17:a:349:LYS:CE	2.25	0.83
17:a:778:GLY:CA	17:a:1091:GLY:C	2.51	0.83
18:b:106:LEU:HD22	18:b:106:LEU:H	1.44	0.83
21:e:101:THR:HG22	21:e:126:THR:H	1.44	0.83
25:i:74:GLU:O	25:i:76:PRO:HD3	1.78	0.83
17:a:1282:VAL:HG12	17:a:1285:ILE:HG13	1.61	0.83
18:b:215:ALA:HA	18:b:217:SER:HB3	1.60	0.83
18:b:423:GLU:HG2	18:b:424:THR:CG2	2.08	0.83
20:d:19:PHE:CD2	23:g:81:ARG:NH1	2.46	0.83
23:g:164:MET:HE1	23:g:170:GLY:CA	2.06	0.83
17:a:1089:TYR:CD1	17:a:1089:TYR:O	2.31	0.83
18:b:273:ARG:HD2	18:b:310:ILE:HD13	1.54	0.83
24:h:62:ASN:HB3	24:h:63:LEU:CB	2.02	0.83
17:a:33:SER:CB	17:a:84:GLY:HA2	2.09	0.83
17:a:95:ILE:HG21	17:a:314:ILE:HG12	1.58	0.83
17:a:271:LYS:HB2	17:a:322:GLN:HE22	1.42	0.83
17:a:1110:VAL:O	17:a:1110:VAL:HG12	1.78	0.83
17:a:1174:GLU:OE2	17:a:1242:ARG:CZ	2.26	0.83
17:a:1276:SER:CB	17:a:1277:ILE:CG1	2.44	0.83
17:a:1395:ILE:HD11	17:a:1397:ARG:CB	2.07	0.83
18:b:660:GLU:O	18:b:661:GLN:HG2	1.79	0.83
18:b:1207:LYS:HG2	18:b:1208:ASN:H	1.42	0.83
5:T:30:PHE:N	5:T:100:GLY:O	2.11	0.83
17:a:26:PRO:CD	17:a:239:TRP:HD1	1.92	0.83
17:a:1282:VAL:HG12	17:a:1282:VAL:O	1.78	0.83
17:a:1403:LEU:HB2	17:a:1425:ASP:OD2	1.79	0.83
18:b:310:ILE:O	18:b:315:ILE:CG2	2.27	0.83
5:T:42:LYS:HB3	5:T:45:ARG:HE	1.41	0.83
17:a:120:SER:CB	17:a:121:ASN:C	2.51	0.83
17:a:343:ARG:CD	18:b:1121:GLU:OE1	2.26	0.83
17:a:517:ILE:HG12	17:a:640:TRP:HE1	1.44	0.83
18:b:31:ALA:H	18:b:482:ARG:HH21	1.27	0.83
18:b:296:MET:HE1	18:b:372:LEU:O	1.78	0.83
26:j:43:TYR:CB	26:j:44:CYS:CA	2.52	0.83
17:a:95:ILE:CG1	17:a:314:ILE:CD1	2.47	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:148:MET:O	17:a:179:GLN:HA	1.79	0.82
23:g:87:VAL:HG22	23:g:147:LYS:HG2	1.59	0.82
24:h:74:TYR:CE1	24:h:76:MET:HG3	2.14	0.82
17:a:271:LYS:HE2	17:a:328:LEU:CB	2.08	0.82
17:a:806:ILE:HD13	17:a:814:LEU:HG	1.61	0.82
17:a:1444:THR:HG22	18:b:1133:SER:H	1.43	0.82
18:b:229:LEU:HA	18:b:230:GLU:HB2	1.61	0.82
18:b:658:ASP:HB3	18:b:659:PRO:HD2	1.60	0.82
20:d:32:ILE:HD12	20:d:74:THR:CG2	2.00	0.82
3:Q:151:PRO:HG3	20:d:129:THR:CG2	2.09	0.82
17:a:6:PHE:CD2	17:a:78:ASP:OD2	2.32	0.82
17:a:260:GLY:HA3	18:b:924:ARG:HE	1.41	0.82
17:a:260:GLY:N	18:b:924:ARG:HD3	1.94	0.82
17:a:966:ILE:HD13	17:a:1052:VAL:HG22	1.60	0.82
5:T:39:VAL:HG23	5:T:51:LYS:HA	1.60	0.82
17:a:380:LEU:HD12	17:a:442:ILE:HD13	1.60	0.82
17:a:1039:ARG:HD2	17:a:1039:ARG:H	1.44	0.82
20:d:99:GLU:O	20:d:124:LEU:CD2	2.27	0.82
4:R:93:LYS:O	4:R:204:ASN:ND2	2.12	0.82
17:a:26:PRO:CD	17:a:239:TRP:CD1	2.62	0.82
17:a:66:GLN:O	17:a:67:PHE:CG	2.32	0.82
17:a:321:LEU:HD22	17:a:325:GLY:CA	2.09	0.82
17:a:812:ARG:HD3	18:b:714:GLN:O	1.79	0.82
17:a:836:LYS:HG2	17:a:840:THR:CG2	2.08	0.82
17:a:1104:LEU:HD11	17:a:1108:LEU:CD1	2.09	0.82
25:i:73:LYS:HG3	25:i:81:HIS:CD2	2.13	0.82
5:T:119:SER:HB3	19:c:89:ASN:ND2	1.93	0.82
8:N:191:PHE:HB2	8:N:194:PRO:HG2	1.58	0.82
17:a:40:PRO:HB3	17:a:276:ILE:HG22	1.60	0.82
17:a:1278:SER:O	17:a:1279:LEU:HB2	1.80	0.82
23:g:10:LEU:CD2	23:g:35:VAL:HG23	2.08	0.82
23:g:95:VAL:HG13	23:g:131:TYR:CE2	2.14	0.82
5:T:31:ALA:HA	5:T:99:GLU:HA	1.60	0.82
17:a:846:ARG:NH1	17:a:1391:THR:CA	2.23	0.82
18:b:437:ASN:OD1	18:b:441:ASN:HB2	1.79	0.82
18:b:715:ARG:O	18:b:717:LYS:HD2	1.80	0.82
20:d:51:MET:HE3	20:d:55:MET:HE2	1.57	0.82
24:h:93:VAL:HG21	24:h:113:ARG:HD2	1.59	0.82
9:D:26:UNK:C	17:a:980:LYS:HZ1	1.93	0.82
17:a:157:GLY:HA2	17:a:168:ALA:CB	2.10	0.82
17:a:1083:THR:OG1	17:a:1101:VAL:HG11	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1089:TYR:O	17:a:1089:TYR:CG	2.31	0.82
17:a:1146:LEU:CD1	17:a:1274:LEU:HA	2.09	0.82
20:d:85:PHE:O	20:d:86:HIS:CG	2.33	0.82
1:F:196:PHE:HB2	1:F:199:VAL:HB	1.61	0.82
17:a:71:THR:C	17:a:72:CYS:SG	2.63	0.82
17:a:148:MET:O	17:a:149:VAL:HG23	1.79	0.82
17:a:383:PRO:O	17:a:384:GLU:HB3	1.78	0.82
18:b:310:ILE:O	18:b:315:ILE:HB	1.79	0.82
18:b:488:ILE:HB	18:b:489:GLY:C	2.05	0.82
18:b:945:THR:HB	28:l:39:ILE:HD13	1.62	0.82
17:a:42:THR:CG2	17:a:55:LEU:HG	2.08	0.81
17:a:451:ASN:HB3	17:a:461:MET:HG2	1.60	0.81
17:a:1091:GLY:HA3	17:a:1092:VAL:HB	0.83	0.81
17:a:1283:PRO:O	17:a:1284:ASN:HB2	1.80	0.81
18:b:34:GLN:HB3	18:b:35:LEU:HB2	1.60	0.81
18:b:264:SER:CB	18:b:322:LYS:NZ	2.43	0.81
18:b:839:LEU:HD13	18:b:840:PHE:CE1	2.12	0.81
19:c:129:SER:CB	19:c:130:LEU:CA	2.53	0.81
17:a:1103:ARG:HG3	17:a:1104:LEU:N	1.93	0.81
18:b:752:GLN:O	18:b:753:SER:HB2	1.80	0.81
20:d:57:LYS:O	20:d:61:TYR:CD1	2.32	0.81
3:Q:138:ILE:CG2	20:d:128:SER:C	2.53	0.81
5:T:93:ARG:CD	19:c:91:ASP:O	2.11	0.81
8:N:192:THR:N	8:N:194:PRO:CG	2.42	0.81
8:N:294:LEU:HD13	8:N:383:LEU:HD13	1.61	0.81
17:a:41:GLU:HG3	17:a:41:GLU:O	1.77	0.81
17:a:95:ILE:HG21	17:a:314:ILE:CG1	2.09	0.81
17:a:193:TRP:HZ3	17:a:206:ARG:CB	1.92	0.81
17:a:267:ASP:N	17:a:268:LEU:C	2.38	0.81
17:a:271:LYS:CE	17:a:328:LEU:CG	2.45	0.81
17:a:353:PHE:CD1	17:a:381:THR:O	2.33	0.81
17:a:870:ILE:HD12	17:a:871:GLN:N	1.93	0.81
17:a:1119:LEU:CG	17:a:1314:THR:CG2	2.59	0.81
17:a:1170:LYS:CE	17:a:1240:ILE:HD11	2.06	0.81
17:a:1177:PHE:O	17:a:1180:PRO:HG2	1.81	0.81
18:b:899:ILE:HD12	18:b:899:ILE:O	1.80	0.81
19:c:58:PRO:HD2	19:c:61:PHE:CB	2.10	0.81
19:c:168:HIS:HD2	19:c:170:LYS:H	1.28	0.81
20:d:11:ALA:HB1	20:d:12:GLN:CA	2.10	0.81
23:g:115:LEU:HD13	23:g:163:THR:HG22	1.60	0.81
23:g:146:LEU:HD11	23:g:164:MET:SD	2.19	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:i:5:GLN:C	25:i:14:LEU:HD12	2.06	0.81
26:j:45:CYS:O	26:j:48:MET:HB2	1.80	0.81
8:N:533:ASN:HB2	8:N:534:ALA:HB3	1.59	0.81
17:a:266:ASP:CA	17:a:267:ASP:CB	2.58	0.81
17:a:343:ARG:HG2	18:b:1121:GLU:OE1	1.80	0.81
25:i:79:HIS:HD2	25:i:80:GLN:HE21	1.28	0.81
1:F:96:ARG:HH11	1:F:102:VAL:HB	1.45	0.81
3:Q:444:TRP:O	3:Q:448:ARG:NH1	2.14	0.81
17:a:1083:THR:HG23	17:a:1084:LEU:N	1.94	0.81
17:a:1485:PRO:HD2	20:d:43:ARG:HH12	1.41	0.81
18:b:264:SER:HB2	18:b:322:LYS:HZ2	1.42	0.81
18:b:1061:MET:HE3	18:b:1074:VAL:HG11	1.61	0.81
20:d:11:ALA:HB1	20:d:12:GLN:HB3	1.60	0.81
24:h:17:ASP:HA	24:h:18:LYS:HB2	1.63	0.81
2:H:24:VAL:O	3:Q:116:GLN:NE2	2.14	0.81
3:Q:441:PHE:HB2	3:Q:523:LEU:HD11	1.61	0.81
17:a:86:ILE:HG23	17:a:86:ILE:O	1.79	0.81
17:a:366:SER:HG	17:a:369:GLU:HG3	1.43	0.81
17:a:778:GLY:O	17:a:1092:VAL:CG2	2.29	0.81
17:a:886:TYR:HA	17:a:958:PRO:HA	1.62	0.81
17:a:1398:ALA:HB1	17:a:1405:ARG:NH2	1.94	0.81
18:b:220:ALA:O	18:b:221:TYR:HD1	1.63	0.81
19:c:65:ARG:HH12	19:c:145:ILE:HA	1.45	0.81
27:k:24:SER:HB3	27:k:25:LYS:HB2	1.60	0.81
17:a:105:LEU:CD1	17:a:182:ILE:HD12	2.07	0.81
17:a:181:THR:HG22	17:a:182:ILE:H	1.45	0.81
18:b:296:MET:SD	18:b:376:LEU:HD13	2.20	0.81
18:b:490:ARG:HG3	18:b:490:ARG:O	1.79	0.81
18:b:686:MET:H	18:b:728:THR:HG21	1.45	0.81
24:h:25:SER:OG	24:h:44:SER:HB3	1.80	0.81
8:N:168:ARG:HE	8:N:214:SER:HA	1.44	0.81
8:N:300:GLU:CD	17:a:1469:ALA:N	2.38	0.81
17:a:10:SER:CB	18:b:1168:TYR:OH	2.27	0.81
17:a:1119:LEU:CB	17:a:1314:THR:CG2	2.59	0.81
17:a:1351:ARG:HB2	17:a:1382:THR:HG21	1.63	0.81
17:a:1404:MET:HG2	17:a:1432:GLU:OE2	1.80	0.81
20:d:27:VAL:HG21	20:d:95:THR:HG22	1.62	0.81
21:e:27:TYR:HA	21:e:63:PRO:HA	1.62	0.81
23:g:144:VAL:HG13	23:g:170:GLY:C	2.05	0.81
3:Q:135:GLU:CD	20:d:124:LEU:HG	2.06	0.81
8:N:192:THR:N	8:N:194:PRO:CD	2.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:806:ILE:CD1	17:a:814:LEU:HD21	2.11	0.81
17:a:949:ILE:HG13	17:a:950:PHE:HD1	1.45	0.81
17:a:1156:HIS:HE1	25:i:42:LYS:HG2	1.46	0.81
26:j:7:CYS:HB2	26:j:45:CYS:HB3	1.60	0.81
17:a:118:ASP:HB2	17:a:120:SER:OG	1.80	0.81
17:a:318:PRO:O	17:a:319:GLN:HG3	1.80	0.81
17:a:322:GLN:OE1	17:a:328:LEU:HD23	1.80	0.81
17:a:1089:TYR:N	17:a:1090:ALA:HB3	1.94	0.81
18:b:855:ILE:HG13	18:b:856:GLY:H	1.46	0.81
20:d:61:TYR:CE2	23:g:103:ASN:O	2.33	0.81
21:e:49:GLY:CA	21:e:50:ARG:CB	2.38	0.81
24:h:7:LEU:HG	24:h:59:ILE:HD11	1.62	0.81
17:a:2:SER:HB2	23:g:65:GLY:HA3	1.63	0.80
17:a:81:GLY:HA3	17:a:249:PRO:HG2	1.62	0.80
17:a:180:PRO:HB3	17:a:193:TRP:CD1	2.16	0.80
17:a:1281:GLY:O	17:a:1283:PRO:HD3	1.82	0.80
20:d:98:CYS:HB3	20:d:99:GLU:OE1	1.81	0.80
3:Q:273:LYS:HG2	3:Q:340:ASP:HB3	1.61	0.80
18:b:745:ILE:O	18:b:748:PRO:HD3	1.80	0.80
17:a:2:SER:HB3	23:g:65:GLY:O	1.81	0.80
17:a:201:ASP:CB	17:a:206:ARG:NH1	2.40	0.80
17:a:419:ILE:HG23	17:a:425:LYS:HD2	1.59	0.80
17:a:1412:VAL:CG1	17:a:1413:GLU:N	2.35	0.80
18:b:292:ASN:OD1	18:b:297:LEU:HD11	1.80	0.80
18:b:323:ARG:HB3	18:b:324:GLY:HA3	1.62	0.80
22:f:125:ARG:HG2	22:f:135:ASP:OD1	1.82	0.80
17:a:6:PHE:C	17:a:8:PRO:HD3	2.05	0.80
17:a:1076:GLY:C	17:a:1078:PRO:HD2	2.06	0.80
5:T:38:VAL:HG21	19:c:93:ASP:OD1	1.82	0.80
8:N:399:ARG:HE	8:N:408:SER:HG	1.05	0.80
17:a:24:LEU:HD12	18:b:1199:ASN:HA	1.61	0.80
17:a:664:LEU:HG	18:b:1063:HIS:HE1	1.47	0.80
25:i:8:ILE:HG22	25:i:9:GLU:N	1.96	0.80
25:i:101:TYR:CB	25:i:110:PHE:CZ	2.65	0.80
17:a:56:LEU:C	17:a:56:LEU:HD12	2.05	0.80
17:a:183:ARG:NH1	17:a:203:PRO:HB2	1.96	0.80
17:a:856:VAL:HG22	17:a:1067:VAL:CG2	2.12	0.80
17:a:1390:ILE:HD13	17:a:1395:ILE:HG22	1.64	0.80
18:b:243:LEU:HD12	18:b:371:MET:HE3	1.63	0.80
20:d:125:ASP:O	20:d:129:THR:HG23	1.82	0.80
26:j:35:LEU:HA	26:j:38:LEU:HD13	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:42:THR:O	17:a:43:MET:SD	2.39	0.80
17:a:148:MET:O	17:a:149:VAL:CG2	2.30	0.80
17:a:266:ASP:O	17:a:269:THR:CG2	2.30	0.80
17:a:1100:GLY:O	17:a:1102:PRO:CD	2.30	0.80
17:a:1164:THR:O	17:a:1165:VAL:CG2	2.30	0.80
17:a:1260:ILE:CD1	25:i:30:ARG:NH2	2.44	0.80
18:b:264:SER:CB	18:b:322:LYS:HZ2	1.94	0.80
18:b:991:SER:OG	18:b:1061:MET:HA	1.81	0.80
20:d:99:GLU:C	20:d:124:LEU:CD2	2.53	0.80
23:g:59:LYS:CG	23:g:60:GLY:HA2	2.12	0.80
24:h:93:VAL:HB	24:h:104:ILE:HD11	1.64	0.80
5:T:38:VAL:HG22	19:c:93:ASP:OD2	1.82	0.80
8:N:544:VAL:HG12	8:N:546:THR:H	1.47	0.80
17:a:94:HIS:O	17:a:98:LEU:CB	2.30	0.80
17:a:202:LEU:HB3	17:a:203:PRO:CD	2.11	0.80
17:a:950:PHE:HB3	17:a:951:PRO:HD3	1.62	0.80
17:a:1146:LEU:HD12	17:a:1274:LEU:CD2	2.08	0.80
17:a:1496:PHE:CG	20:d:29:GLU:CG	2.65	0.80
18:b:229:LEU:HD11	18:b:231:ARG:CZ	2.10	0.80
18:b:752:GLN:O	18:b:754:PRO:CD	2.30	0.80
20:d:69:LYS:O	20:d:70:THR:CG2	2.30	0.80
20:d:80:ILE:CD1	20:d:130:LEU:CD1	2.60	0.80
23:g:95:VAL:HG13	23:g:131:TYR:CD2	2.16	0.80
17:a:94:HIS:O	17:a:98:LEU:CG	2.30	0.80
17:a:263:ARG:O	17:a:263:ARG:CD	2.30	0.80
17:a:810:TYR:HB3	18:b:750:HIS:O	1.82	0.80
17:a:1020:LEU:HB3	21:e:200:SER:HB3	1.62	0.80
18:b:264:SER:HB2	18:b:322:LYS:HZ1	1.46	0.80
18:b:292:ASN:H	18:b:293:ASP:HB2	1.46	0.80
20:d:19:PHE:HD2	23:g:81:ARG:NH1	1.80	0.80
17:a:49:ARG:N	17:a:50:PRO:HD3	1.95	0.80
17:a:178:ALA:O	17:a:179:GLN:CG	2.30	0.80
17:a:318:PRO:O	17:a:319:GLN:CG	2.30	0.80
17:a:1166:ILE:HD13	17:a:1171:ASP:OD2	1.82	0.80
20:d:13:LEU:O	20:d:14:LYS:HG2	1.81	0.80
24:h:7:LEU:HB2	24:h:59:ILE:HG12	1.63	0.80
17:a:118:ASP:CB	17:a:120:SER:OG	2.30	0.79
17:a:205:LYS:C	17:a:206:ARG:CD	2.53	0.79
17:a:275:ILE:HG12	17:a:305:HIS:HB3	1.63	0.79
20:d:11:ALA:CB	20:d:12:GLN:CB	2.60	0.79
23:g:3:PHE:CE1	23:g:80:TRP:CD1	2.70	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:g:146:LEU:CG	23:g:164:MET:SD	2.68	0.79
17:a:59:ARG:N	17:a:60:LEU:HA	1.93	0.79
17:a:646:GLU:H	17:a:648:CYS:CA	1.93	0.79
20:d:58:THR:O	20:d:62:PHE:CD2	2.36	0.79
27:k:118:VAL:O	27:k:119:GLU:CG	2.30	0.79
5:T:33:HIS:HE1	5:T:99:GLU:OE2	1.64	0.79
17:a:645:PRO:O	17:a:646:GLU:CG	2.30	0.79
17:a:1253:ALA:HB1	17:a:1254:GLU:HA	1.63	0.79
17:a:1442:MET:HG3	18:b:1128:ILE:HG23	1.63	0.79
18:b:220:ALA:O	18:b:221:TYR:CD1	2.35	0.79
18:b:310:ILE:O	18:b:315:ILE:HG21	1.81	0.79
20:d:25:LEU:HD23	20:d:29:GLU:OE1	1.83	0.79
17:a:118:ASP:CG	17:a:120:SER:OG	2.25	0.79
17:a:398:VAL:HG13	17:a:421:LEU:HD11	1.62	0.79
17:a:1112:LYS:H	17:a:1112:LYS:CD	1.94	0.79
18:b:343:GLN:O	18:b:344:LYS:CG	2.30	0.79
17:a:154:LEU:H	17:a:173:GLY:CA	1.94	0.79
17:a:709:LYS:CB	17:a:710:PRO:HD2	2.06	0.79
17:a:1104:LEU:C	17:a:1104:LEU:CD1	2.54	0.79
17:a:1259:MET:C	17:a:1260:ILE:HG23	2.08	0.79
18:b:641:ARG:H	18:b:644:HIS:HD2	1.30	0.79
18:b:660:GLU:O	18:b:661:GLN:CG	2.30	0.79
26:j:56:ILE:HD12	26:j:56:ILE:H	1.46	0.79
17:a:64:ASP:O	17:a:67:PHE:CD1	2.36	0.79
17:a:785:PHE:CZ	17:a:791:PRO:HG3	2.17	0.79
17:a:1018:THR:O	17:a:1022:GLN:HG3	1.82	0.79
18:b:310:ILE:O	18:b:315:ILE:CB	2.30	0.79
23:g:150:GLY:O	23:g:160:ALA:CB	2.30	0.79
17:a:1094:SER:O	17:a:1095:LYS:CG	2.31	0.79
18:b:281:ARG:HA	25:i:6:TYR:CE2	2.18	0.79
18:b:329:VAL:H	18:b:330:THR:HA	1.47	0.79
17:a:23:ILE:HD11	17:a:1420:ALA:HA	0.83	0.79
17:a:48:GLN:CG	17:a:50:PRO:CG	2.61	0.79
17:a:1253:ALA:HB1	17:a:1254:GLU:CA	2.12	0.79
23:g:100:PHE:HB2	23:g:111:VAL:HG13	1.57	0.79
17:a:558:TRP:HH2	27:k:61:LYS:HE2	1.48	0.79
17:a:846:ARG:HG3	17:a:1390:ILE:HG22	1.64	0.79
18:b:341:ILE:HG22	18:b:346:LEU:HD23	1.64	0.79
20:d:43:ARG:O	20:d:44:GLU:CG	2.30	0.79
8:N:196:GLU:OE1	8:N:223:GLN:CB	2.29	0.79
17:a:107:CYS:HG	17:a:140:VAL:HG11	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:120:SER:CB	17:a:121:ASN:O	2.30	0.79
17:a:177:ALA:HA	17:a:178:ALA:CB	2.12	0.79
17:a:645:PRO:CA	17:a:648:CYS:HB3	2.12	0.79
17:a:730:GLN:CA	17:a:733:ASP:OD1	2.31	0.79
17:a:856:VAL:CG2	17:a:1067:VAL:CG2	2.61	0.79
17:a:1228:PHE:CD2	17:a:1246:ILE:HD11	2.17	0.79
25:i:6:TYR:O	25:i:14:LEU:CD2	2.30	0.79
17:a:151:ASP:CG	17:a:152:THR:H	1.89	0.78
17:a:836:LYS:HD2	17:a:1084:LEU:HD11	1.63	0.78
17:a:922:GLU:HB2	17:a:923:ASN:HA	1.63	0.78
17:a:963:VAL:HG13	17:a:966:ILE:HD11	1.63	0.78
17:a:40:PRO:HB3	17:a:276:ILE:CG2	2.13	0.78
17:a:66:GLN:C	17:a:67:PHE:CG	2.61	0.78
17:a:120:SER:N	17:a:122:PRO:N	2.30	0.78
17:a:314:ILE:O	17:a:314:ILE:CG2	2.31	0.78
17:a:430:ILE:O	17:a:430:ILE:HG12	1.82	0.78
17:a:664:LEU:HD23	17:a:665:HIS:CE1	2.18	0.78
17:a:1176:PHE:O	17:a:1180:PRO:CD	2.30	0.78
17:a:1178:ALA:C	17:a:1180:PRO:HD2	2.08	0.78
18:b:454:ASP:OD1	18:b:455:GLN:CA	2.30	0.78
20:d:47:GLY:O	20:d:48:GLU:CB	2.31	0.78
17:a:12:PRO:O	17:a:13:LEU:CD2	2.31	0.78
17:a:26:PRO:HD3	17:a:239:TRP:HD1	1.47	0.78
17:a:83:PHE:CZ	18:b:1196:MET:CB	2.63	0.78
17:a:230:LEU:HD11	17:a:237:PRO:CG	2.01	0.78
17:a:1474:GLY:O	17:a:1475:THR:CG2	2.31	0.78
18:b:408:ARG:O	18:b:412:ARG:HG3	1.82	0.78
8:N:192:THR:O	8:N:194:PRO:CD	2.31	0.78
17:a:15:ARG:CD	17:a:1438:GLN:HE21	1.95	0.78
17:a:311:ASP:CB	17:a:314:ILE:HG13	2.14	0.78
17:a:368:ASP:OD1	17:a:649:LYS:HE3	1.82	0.78
17:a:921:ILE:O	17:a:922:GLU:HB2	1.81	0.78
17:a:1112:LYS:HD3	17:a:1112:LYS:N	1.96	0.78
17:a:1153:THR:OG1	25:i:46:HIS:HB2	1.83	0.78
18:b:640:ILE:HD13	18:b:673:LEU:HD22	1.65	0.78
25:i:79:HIS:O	25:i:80:GLN:CB	2.31	0.78
3:Q:151:PRO:HG3	20:d:129:THR:HG22	1.62	0.78
17:a:161:PHE:O	17:a:166:PRO:CB	2.30	0.78
17:a:250:PRO:HA	17:a:253:ARG:HG3	1.64	0.78
18:b:784:ILE:HD11	18:b:843:ILE:HD12	1.65	0.78
23:g:114:HIS:C	23:g:114:HIS:HD2	1.90	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:195:ARG:HG3	17:a:196:GLY:HA2	1.63	0.78
18:b:231:ARG:HH12	18:b:234:ARG:HD2	1.47	0.78
3:Q:135:GLU:CD	20:d:128:SER:HB3	2.08	0.78
3:Q:139:GLU:HG3	20:d:128:SER:O	1.83	0.78
17:a:195:ARG:CB	17:a:196:GLY:CA	2.61	0.78
17:a:254:PRO:CB	18:b:1103:LEU:HD21	2.13	0.78
17:a:271:LYS:HD3	17:a:322:GLN:CD	2.09	0.78
17:a:341:ARG:HH12	18:b:1190:LEU:HB3	1.48	0.78
17:a:857:ARG:HH11	17:a:857:ARG:HG3	1.48	0.78
18:b:284:LEU:CD1	18:b:300:MET:HE2	2.13	0.78
18:b:655:TYR:O	18:b:656:ASP:CB	2.31	0.78
18:b:660:GLU:O	18:b:661:GLN:CB	2.31	0.78
19:c:82:VAL:O	19:c:82:VAL:CG1	2.31	0.78
19:c:130:LEU:HB3	19:c:131:GLY:CA	2.13	0.78
17:a:710:PRO:O	17:a:711:GLU:HB2	1.83	0.78
23:g:115:LEU:HD22	23:g:163:THR:HG22	1.66	0.78
17:a:321:LEU:HD22	17:a:325:GLY:C	2.09	0.78
17:a:350:ARG:HA	18:b:1118:ARG:HA	1.66	0.78
17:a:395:GLN:CG	17:a:432:LEU:HD12	2.14	0.78
18:b:508:VAL:HG13	18:b:510:PRO:CA	2.13	0.78
20:d:11:ALA:HB1	20:d:12:GLN:CB	2.14	0.78
24:h:70:GLU:OE1	24:h:70:GLU:CA	2.30	0.78
17:a:42:THR:CG2	17:a:43:MET:N	2.35	0.77
17:a:81:GLY:HA3	17:a:249:PRO:CB	2.12	0.77
17:a:585:SER:HB2	17:a:617:GLU:HA	1.66	0.77
17:a:1074:SER:O	17:a:1078:PRO:CD	2.30	0.77
19:c:242:ASN:HA	19:c:243:GLU:C	2.07	0.77
20:d:67:ARG:NH1	20:d:97:CYS:HG	1.82	0.77
25:i:72:ASP:HA	25:i:81:HIS:NE2	1.98	0.77
8:N:206:GLN:CD	9:D:96:UNK:CB	2.57	0.77
17:a:242:ILE:HD13	17:a:245:LEU:HD12	1.64	0.77
17:a:337:GLY:HA3	17:a:338:LYS:C	2.07	0.77
17:a:180:PRO:HG3	17:a:193:TRP:NE1	1.98	0.77
17:a:672:ILE:O	17:a:675:THR:HG22	1.84	0.77
17:a:785:PHE:HZ	17:a:791:PRO:HG3	1.49	0.77
17:a:1100:GLY:C	17:a:1102:PRO:CD	2.54	0.77
17:a:1115:LYS:O	17:a:1117:PRO:CD	2.30	0.77
17:a:1328:VAL:HG13	17:a:1329:ASP:HA	1.66	0.77
18:b:655:TYR:O	18:b:656:ASP:HB2	1.84	0.77
20:d:99:GLU:HA	20:d:124:LEU:CD2	2.13	0.77
21:e:45:HIS:CE1	21:e:57:LEU:HD12	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:e:175:LEU:HD11	21:e:187:ARG:HE	1.49	0.77
17:a:62:THR:HG21	17:a:75:THR:CB	2.14	0.77
17:a:331:ILE:O	17:a:335:LEU:CD2	2.31	0.77
17:a:573:LYS:HB2	17:a:574:PRO:HD2	1.65	0.77
17:a:812:ARG:HB2	17:a:813:GLY:HA2	1.65	0.77
18:b:508:VAL:HG13	18:b:510:PRO:N	1.99	0.77
18:b:921:HIS:HB3	18:b:922:ALA:HB2	1.64	0.77
17:a:117:ILE:HG22	17:a:118:ASP:N	1.98	0.77
17:a:260:GLY:HA3	18:b:924:ARG:CD	2.14	0.77
17:a:714:MET:HB3	17:a:715:THR:HA	1.64	0.77
17:a:1165:VAL:O	17:a:1166:ILE:CG1	2.33	0.77
18:b:985:HIS:CE1	18:b:996:VAL:HG11	2.20	0.77
20:d:24:MET:CG	23:g:4:PHE:CZ	2.64	0.77
8:N:195:ASN:ND2	8:N:270:CYS:SG	2.57	0.77
17:a:2:SER:CB	23:g:65:GLY:O	2.33	0.77
17:a:205:LYS:CG	17:a:206:ARG:HE	1.96	0.77
20:d:58:THR:C	20:d:62:PHE:HD2	1.93	0.77
1:F:120:ASN:HB3	1:F:123:THR:HG23	1.66	0.77
17:a:1461:LEU:CB	17:a:1462:GLY:O	2.33	0.77
25:i:50:SER:O	25:i:51:SER:HB3	1.84	0.77
17:a:8:PRO:HG3	18:b:1148:ARG:HE	1.50	0.77
17:a:55:LEU:HD13	17:a:55:LEU:C	2.10	0.77
17:a:161:PHE:CD2	17:a:165:ASN:ND2	2.51	0.77
17:a:244:VAL:HG12	17:a:244:VAL:O	1.84	0.77
17:a:335:LEU:N	17:a:335:LEU:CD2	2.45	0.77
17:a:592:ILE:HD13	17:a:592:ILE:H	1.49	0.77
17:a:592:ILE:HG21	17:a:639:ILE:HG22	1.64	0.77
17:a:889:PHE:CZ	17:a:1020:LEU:HD21	2.20	0.77
17:a:1496:PHE:CE2	20:d:33:LEU:CD2	2.68	0.77
19:c:212:GLU:HB2	19:c:213:PRO:CA	2.13	0.77
20:d:14:LYS:O	20:d:15:LEU:HB2	1.84	0.77
20:d:26:THR:O	20:d:30:ALA:HB2	1.83	0.77
20:d:51:MET:HE3	20:d:55:MET:HE3	1.65	0.77
26:j:56:ILE:HD12	26:j:56:ILE:N	2.00	0.77
17:a:192:SER:HB2	17:a:202:LEU:CA	2.15	0.77
18:b:273:ARG:HD2	18:b:310:ILE:HD12	0.78	0.77
3:Q:138:ILE:CG2	20:d:129:THR:CA	2.55	0.77
17:a:201:ASP:HB3	17:a:206:ARG:HH12	1.50	0.77
17:a:827:ARG:HH11	17:a:827:ARG:CG	1.98	0.77
18:b:211:PHE:CE1	18:b:384:ARG:HD3	2.20	0.77
8:N:192:THR:H	8:N:194:PRO:HG2	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:116:LYS:HE3	17:a:140:VAL:HG13	1.67	0.76
17:a:117:ILE:HD11	17:a:143:VAL:HG21	1.66	0.76
17:a:155:SER:CB	17:a:169:ASN:HA	2.15	0.76
17:a:337:GLY:CA	17:a:338:LYS:O	2.32	0.76
17:a:1170:LYS:CE	17:a:1240:ILE:CD1	2.60	0.76
18:b:1180:SER:HB3	18:b:1209:HIS:CD2	2.17	0.76
23:g:138:ILE:HG12	23:g:171:VAL:HG22	1.65	0.76
23:g:149:VAL:HG21	23:g:163:THR:CG2	2.14	0.76
17:a:48:GLN:CG	17:a:50:PRO:CD	2.63	0.76
17:a:1121:ILE:HG23	17:a:1333:THR:HG22	1.66	0.76
17:a:1140:GLN:O	17:a:1280:ARG:CB	2.33	0.76
18:b:427:GLU:O	18:b:428:PHE:CB	2.33	0.76
18:b:734:PRO:O	18:b:737:ILE:HG13	1.85	0.76
23:g:59:LYS:HB3	23:g:60:GLY:HA3	1.65	0.76
23:g:88:VAL:HG11	23:g:104:ILE:HG21	1.67	0.76
8:N:172:TYR:HB2	8:N:213:ILE:HA	1.67	0.76
17:a:33:SER:HB2	17:a:84:GLY:CA	2.12	0.76
17:a:81:GLY:CA	17:a:249:PRO:CB	2.64	0.76
17:a:579:THR:HG23	17:a:582:GLN:HB2	1.65	0.76
17:a:1444:THR:O	17:a:1444:THR:HG23	1.86	0.76
18:b:328:GLY:O	18:b:329:VAL:HB	1.85	0.76
18:b:838:GLY:HA2	18:b:841:ARG:HD2	1.68	0.76
19:c:130:LEU:CB	19:c:131:GLY:HA3	2.01	0.76
17:a:573:LYS:HE2	24:h:74:TYR:CZ	2.20	0.76
17:a:1065:GLU:O	17:a:1066:MET:HB2	1.83	0.76
17:a:1085:ASN:HA	17:a:1088:HIS:HD2	1.50	0.76
17:a:1290:MET:HG3	17:a:1310:TRP:HE3	1.49	0.76
18:b:633:GLU:HG3	18:b:641:ARG:HH22	1.48	0.76
25:i:51:SER:O	25:i:52:ASN:CB	2.33	0.76
17:a:351:VAL:HG12	17:a:352:ASP:N	1.98	0.76
17:a:513:VAL:HG23	17:a:514:PRO:CD	2.04	0.76
17:a:950:PHE:CB	17:a:951:PRO:CD	2.64	0.76
20:d:68:PHE:HD1	20:d:73:ALA:HB1	1.50	0.76
21:e:21:LEU:HD21	21:e:25:ARG:HE	1.50	0.76
17:a:904:ARG:HG3	17:a:937:GLN:HE22	1.49	0.76
18:b:869:SER:C	18:b:870:THR:CG2	2.58	0.76
2:H:27:LEU:HD21	2:H:53:LEU:HD21	1.67	0.76
17:a:242:ILE:HG21	17:a:245:LEU:HD13	1.67	0.76
17:a:1191:GLN:O	17:a:1246:ILE:CG2	2.34	0.76
17:a:1395:ILE:HG13	17:a:1395:ILE:O	1.83	0.76
18:b:1005:ALA:O	18:b:1006:ILE:HD13	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:c:4:GLU:N	19:c:5:THR:HA	1.99	0.76
23:g:151:THR:HG22	23:g:160:ALA:HB2	1.66	0.76
25:i:6:TYR:O	25:i:14:LEU:CG	2.34	0.76
8:N:281:GLN:HB3	8:N:379:ALA:HB2	1.67	0.76
17:a:77:ALA:C	17:a:79:CYS:H	1.94	0.76
17:a:322:GLN:OE1	17:a:328:LEU:CB	2.33	0.76
18:b:605:ILE:HB	25:i:61:ASP:CB	2.10	0.76
18:b:871:THR:O	18:b:872:LEU:HD23	1.85	0.76
2:H:44:PRO:HA	7:V:65:ARG:HH12	1.50	0.76
17:a:1083:THR:HG23	17:a:1084:LEU:H	1.50	0.76
17:a:1150:THR:O	17:a:1151:SER:CB	2.32	0.76
17:a:1450:TYR:O	17:a:1451:LEU:CD2	2.33	0.76
17:a:105:LEU:HD13	17:a:182:ILE:CD1	2.08	0.76
17:a:387:THR:O	17:a:391:ILE:HD12	1.86	0.76
17:a:1259:MET:O	17:a:1260:ILE:CG1	2.34	0.76
18:b:453:GLY:O	18:b:456:LYS:HB2	1.86	0.76
19:c:249:LEU:H	19:c:249:LEU:CD1	1.98	0.76
20:d:43:ARG:O	20:d:44:GLU:CB	2.34	0.76
20:d:58:THR:O	20:d:62:PHE:HD2	1.68	0.76
8:N:406:ILE:HG23	8:N:416:LYS:HB2	1.65	0.75
17:a:154:LEU:N	17:a:173:GLY:C	2.42	0.75
17:a:1397:ARG:O	17:a:1398:ALA:HB2	1.85	0.75
18:b:335:LEU:O	18:b:339:HIS:CD2	2.39	0.75
18:b:429:ASN:O	18:b:430:LEU:CB	2.32	0.75
18:b:656:ASP:O	18:b:657:ILE:CG2	2.32	0.75
18:b:1095:ARG:HD3	18:b:1096:ALA:H	1.51	0.75
19:c:31:SER:O	19:c:35:VAL:HG23	1.86	0.75
19:c:210:TRP:O	19:c:211:GLU:HG3	1.84	0.75
26:j:7:CYS:CB	26:j:45:CYS:CB	2.63	0.75
17:a:778:GLY:C	17:a:1092:VAL:CG2	2.57	0.75
17:a:895:SER:H	17:a:898:GLN:HE21	1.33	0.75
17:a:1085:ASN:OD1	17:a:1088:HIS:HD2	1.69	0.75
17:a:1125:PRO:HG2	17:a:1129:ALA:HB2	1.68	0.75
17:a:1157:TYR:HD1	25:i:43:VAL:HG21	1.49	0.75
17:a:1161:PRO:CB	17:a:1190:LYS:HG2	2.16	0.75
18:b:290:ASP:CB	18:b:292:ASN:HB2	2.10	0.75
18:b:296:MET:HE1	18:b:372:LEU:HB3	1.69	0.75
18:b:1205:PHE:CE2	18:b:1210:LYS:CB	2.69	0.75
20:d:61:TYR:OH	23:g:103:ASN:HB3	1.87	0.75
24:h:57:LEU:C	24:h:57:LEU:HD12	2.11	0.75
25:i:4:PHE:CD1	25:i:27:LEU:CD2	2.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:N:328:ILE:HG21	8:N:360:VAL:HG13	1.68	0.75
17:a:178:ALA:C	17:a:180:PRO:CD	2.59	0.75
17:a:193:TRP:CZ3	17:a:206:ARG:HB3	2.22	0.75
17:a:674:ASP:OD2	17:a:748:ASN:HB2	1.85	0.75
17:a:714:MET:CB	17:a:715:THR:HA	2.15	0.75
17:a:836:LYS:CG	17:a:840:THR:HG21	2.12	0.75
17:a:1082:MET:HG3	17:a:1362:ILE:HA	1.66	0.75
17:a:1144:THR:HB	17:a:1279:LEU:HD12	1.69	0.75
17:a:193:TRP:O	17:a:200:SER:CB	2.29	0.75
17:a:261:THR:O	17:a:262:SER:CB	2.33	0.75
17:a:380:LEU:HD13	17:a:497:VAL:CG2	2.14	0.75
17:a:781:ILE:HG12	17:a:821:PHE:HE1	1.51	0.75
17:a:919:ASN:ND2	17:a:919:ASN:H	1.82	0.75
18:b:43:GLN:N	18:b:44:ASN:HB2	2.00	0.75
18:b:972:ARG:CZ	18:b:1080:TYR:CE2	2.67	0.75
18:b:993:GLN:N	18:b:994:GLY:CA	2.50	0.75
17:a:8:PRO:HG3	18:b:1148:ARG:NE	2.02	0.75
17:a:65:ARG:N	17:a:67:PHE:HE1	1.84	0.75
17:a:95:ILE:CG2	17:a:314:ILE:HD13	2.17	0.75
17:a:120:SER:OG	17:a:121:ASN:CB	2.30	0.75
17:a:179:GLN:N	17:a:180:PRO:HD2	2.02	0.75
17:a:331:ILE:O	17:a:335:LEU:HD21	1.86	0.75
17:a:780:ARG:NH1	17:a:803:ARG:HE	1.83	0.75
17:a:815:THR:HG22	18:b:715:ARG:CB	2.10	0.75
17:a:822:HIS:NE2	18:b:753:SER:CB	2.49	0.75
18:b:42:VAL:C	18:b:44:ASN:HB2	2.12	0.75
18:b:232:GLY:O	18:b:233:SER:HB3	1.84	0.75
18:b:273:ARG:CD	18:b:310:ILE:CD1	2.25	0.75
5:T:27:ARG:HG2	5:T:28:THR:HG23	1.69	0.75
5:T:38:VAL:HG13	19:c:93:ASP:OD2	1.85	0.75
17:a:119:SER:N	17:a:120:SER:HB2	2.01	0.75
17:a:350:ARG:NH1	18:b:1118:ARG:HB2	2.02	0.75
17:a:388:PRO:HB3	17:a:434:TYR:OH	1.85	0.75
17:a:972:GLN:NE2	17:a:973:ILE:HD13	2.01	0.75
18:b:443:LEU:HA	18:b:446:SER:OG	1.86	0.75
20:d:19:PHE:CE2	23:g:42:GLN:O	2.39	0.75
21:e:199:THR:N	21:e:200:SER:CA	2.41	0.75
17:a:202:LEU:HB3	17:a:203:PRO:HD2	1.66	0.75
17:a:260:GLY:O	17:a:261:THR:C	2.30	0.75
17:a:147:LYS:C	17:a:148:MET:HG3	2.11	0.75
17:a:581:LYS:CB	17:a:618:ILE:HD11	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:922:GLU:CB	17:a:923:ASN:CA	2.64	0.75
17:a:1081:GLN:NE2	17:a:1368:TYR:HE2	1.80	0.75
17:a:1392:ARG:O	17:a:1393:HIS:ND1	2.19	0.75
18:b:512:GLU:HG2	18:b:512:GLU:O	1.85	0.75
19:c:67:GLY:HA3	19:c:170:LYS:NZ	2.02	0.75
20:d:24:MET:HG3	23:g:4:PHE:HE1	1.50	0.75
20:d:51:MET:CE	20:d:55:MET:HE3	2.13	0.75
23:g:102:ALA:O	23:g:103:ASN:CG	2.30	0.75
24:h:113:ARG:HG2	24:h:114:LEU:N	2.02	0.75
3:Q:239:LEU:HD13	6:K:91:PRO:HG2	1.68	0.75
4:R:14:ARG:NH2	4:R:199:PHE:O	2.17	0.75
17:a:176:GLY:O	17:a:177:ALA:HB2	1.87	0.75
17:a:311:ASP:HB3	17:a:314:ILE:HG13	1.65	0.75
17:a:381:THR:OG1	17:a:382:TYR:C	2.29	0.75
17:a:1284:ASN:HB3	17:a:1317:ILE:HD12	1.69	0.75
18:b:841:ARG:HH22	28:l:63:ARG:C	1.94	0.75
19:c:58:PRO:HD2	19:c:61:PHE:HB3	1.68	0.75
24:h:79:LYS:HD3	24:h:81:TYR:HE2	1.51	0.75
25:i:39:ALA:O	25:i:40:THR:HG23	1.87	0.75
3:Q:442:GLN:HE22	7:V:116:GLU:H	1.34	0.74
17:a:106:GLU:CB	17:a:144:CYS:CB	2.65	0.74
17:a:1077:GLU:N	17:a:1078:PRO:CD	2.50	0.74
17:a:1223:PHE:CZ	17:a:1273:MET:SD	2.80	0.74
18:b:556:ASN:CG	18:b:557:PRO:HD3	2.12	0.74
18:b:759:GLN:NE2	18:b:1082:GLN:OE1	2.20	0.74
17:a:15:ARG:NH1	17:a:1438:GLN:NE2	2.33	0.74
17:a:71:THR:HG21	17:a:82:HIS:NE2	2.02	0.74
17:a:419:ILE:HG22	17:a:425:LYS:CD	2.10	0.74
17:a:645:PRO:HA	17:a:648:CYS:CB	2.17	0.74
17:a:664:LEU:HG	18:b:1063:HIS:CE1	2.22	0.74
17:a:762:ILE:HG12	17:a:762:ILE:O	1.85	0.74
17:a:905:ILE:HD13	17:a:905:ILE:N	2.02	0.74
18:b:947:GLN:HA	18:b:948:GLU:C	2.10	0.74
20:d:71:ALA:O	20:d:75:TYR:CD1	2.40	0.74
23:g:39:CYS:SG	23:g:45:TYR:CD2	2.81	0.74
23:g:96:ASN:C	23:g:98:MET:H	1.95	0.74
17:a:42:THR:CG2	17:a:55:LEU:CG	2.61	0.74
17:a:120:SER:H	17:a:122:PRO:CA	1.99	0.74
17:a:375:SER:CB	27:k:2:ASN:HD21	1.96	0.74
18:b:831:ASN:HD22	18:b:831:ASN:C	1.94	0.74
18:b:1106:GLN:HB3	18:b:1107:PRO:CD	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:d:14:LYS:O	20:d:15:LEU:CB	2.34	0.74
20:d:19:PHE:CZ	23:g:42:GLN:O	2.41	0.74
25:i:6:TYR:O	25:i:7:CYS:HB3	1.87	0.74
17:a:350:ARG:O	17:a:351:VAL:CB	2.34	0.74
17:a:1228:PHE:CE2	17:a:1246:ILE:CD1	2.70	0.74
18:b:102:GLN:HB3	18:b:105:ARG:HD2	1.67	0.74
18:b:1108:VAL:CG2	18:b:1109:GLU:H	2.01	0.74
20:d:96:LEU:N	20:d:96:LEU:HD23	2.01	0.74
21:e:199:THR:HG22	21:e:200:SER:O	1.87	0.74
23:g:14:LEU:HD12	23:g:30:LYS:NZ	2.01	0.74
23:g:46:ILE:HG12	23:g:79:LEU:CD2	2.14	0.74
8:N:218:ILE:HG22	8:N:245:ASN:HD21	1.52	0.74
17:a:70:GLN:O	17:a:71:THR:CB	2.35	0.74
17:a:856:VAL:HG22	17:a:1067:VAL:HG21	1.67	0.74
17:a:1165:VAL:O	17:a:1166:ILE:HG12	1.88	0.74
8:N:402:LEU:HG	8:N:403:HIS:N	1.97	0.74
17:a:780:ARG:NH1	17:a:803:ARG:NH2	2.35	0.74
17:a:810:TYR:CE2	18:b:752:GLN:HA	2.22	0.74
17:a:1252:LYS:O	17:a:1253:ALA:HB3	1.86	0.74
18:b:307:ALA:CB	18:b:310:ILE:HD11	2.08	0.74
18:b:587:ARG:HH21	18:b:601:ILE:CD1	2.01	0.74
18:b:871:THR:O	18:b:872:LEU:CG	2.35	0.74
18:b:1068:ARG:HG3	18:b:1069:LYS:O	1.86	0.74
18:b:1095:ARG:CD	18:b:1096:ALA:H	2.00	0.74
17:a:87:GLU:O	17:a:88:LEU:HD23	1.87	0.74
17:a:150:CYS:HB2	17:a:176:GLY:C	2.12	0.74
17:a:668:PHE:CE2	17:a:752:MET:HE2	2.22	0.74
17:a:887:GLN:HG3	17:a:888:VAL:N	2.02	0.74
17:a:918:GLU:OE1	17:a:981:PRO:HG2	1.88	0.74
17:a:1170:LYS:HE2	17:a:1240:ILE:HD12	1.70	0.74
17:a:1359:ARG:NH2	17:a:1371:TYR:HD2	1.85	0.74
17:a:1461:LEU:CB	17:a:1462:GLY:HA3	2.16	0.74
18:b:226:ARG:HA	18:b:238:SER:HA	1.68	0.74
18:b:715:ARG:HG2	18:b:715:ARG:NH1	1.97	0.74
17:a:119:SER:N	17:a:120:SER:CB	2.49	0.74
17:a:167:SER:HA	17:a:168:ALA:O	1.87	0.74
17:a:318:PRO:C	17:a:319:GLN:HG3	2.12	0.74
18:b:89:MET:HA	18:b:89:MET:HE3	1.69	0.74
17:a:5:GLN:O	17:a:8:PRO:CD	2.35	0.74
17:a:90:LYS:HD3	17:a:282:VAL:HG12	1.70	0.74
17:a:231:ASN:HB3	17:a:235:ALA:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:271:LYS:HE2	17:a:328:LEU:HD12	1.70	0.74
17:a:379:THR:O	17:a:380:LEU:CD2	2.30	0.74
17:a:1367:SER:O	17:a:1369:VAL:HG23	1.86	0.74
18:b:328:GLY:O	18:b:329:VAL:CB	2.35	0.74
18:b:1054:GLN:C	18:b:1056:ARG:HD3	2.13	0.74
19:c:219:PRO:HG2	24:h:48:PRO:HG2	1.70	0.74
20:d:80:ILE:HD11	20:d:130:LEU:CD1	2.16	0.74
21:e:28:GLY:N	21:e:62:LYS:O	2.21	0.74
17:a:331:ILE:CD1	18:b:1198:MET:SD	2.76	0.74
17:a:708:LEU:HG	17:a:709:LYS:O	1.87	0.74
17:a:1089:TYR:N	17:a:1090:ALA:HB2	2.03	0.74
18:b:287:ILE:HD11	18:b:368:ILE:HD11	1.68	0.74
21:e:5:GLU:O	21:e:8:ILE:HG12	1.88	0.74
3:Q:135:GLU:HG2	20:d:128:SER:CB	2.17	0.73
8:N:427:LYS:HA	8:N:434:ARG:HE	1.53	0.73
17:a:101:ILE:HD11	17:a:217:PHE:HE2	1.49	0.73
17:a:318:PRO:O	17:a:319:GLN:CB	2.36	0.73
17:a:763:ASN:O	17:a:767:MET:HG3	1.87	0.73
17:a:887:GLN:HG3	17:a:888:VAL:H	1.53	0.73
18:b:1093:HIS:CE1	18:b:1114:ASP:O	2.41	0.73
20:d:10:ALA:HA	23:g:84:ARG:O	1.87	0.73
24:h:60:THR:HG23	24:h:61:SER:H	1.50	0.73
27:k:20:TYR:OH	27:k:82:PRO:HD2	1.88	0.73
3:Q:138:ILE:HG23	20:d:128:SER:O	1.88	0.73
8:N:206:GLN:HE21	9:D:96:UNK:CB	2.01	0.73
17:a:86:ILE:HG22	17:a:245:LEU:O	1.88	0.73
17:a:312:ASN:HD21	17:a:330:SER:N	1.86	0.73
17:a:559:VAL:HG21	17:a:562:TRP:HB2	1.70	0.73
18:b:568:VAL:HG22	18:b:612:LEU:HB2	1.69	0.73
18:b:659:PRO:CA	18:b:660:GLU:C	2.48	0.73
23:g:111:VAL:HG13	23:g:111:VAL:O	1.87	0.73
23:g:164:MET:HE1	23:g:170:GLY:N	2.03	0.73
8:N:197:PHE:CD1	8:N:266:LEU:HD21	2.23	0.73
17:a:179:GLN:N	17:a:180:PRO:CD	2.49	0.73
17:a:260:GLY:CA	18:b:924:ARG:CD	2.67	0.73
17:a:605:ASN:H	17:a:606:PRO:HA	1.54	0.73
17:a:1082:MET:HE1	17:a:1364:PHE:C	2.13	0.73
17:a:1160:ASP:OD1	25:i:23:ARG:HD3	1.89	0.73
18:b:220:ALA:O	18:b:221:TYR:CB	2.35	0.73
18:b:655:TYR:N	18:b:655:TYR:CD1	2.56	0.73
25:i:53:VAL:CG1	25:i:56:THR:CB	2.58	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:48:ASN:HB2	1:F:77:GLN:HG2	1.69	0.73
17:a:94:HIS:H	17:a:98:LEU:HD11	1.53	0.73
17:a:120:SER:CA	17:a:121:ASN:C	2.61	0.73
17:a:196:GLY:O	17:a:197:LYS:CB	2.31	0.73
17:a:444:ASP:O	17:a:446:ASP:HB2	1.89	0.73
17:a:827:ARG:HH11	17:a:827:ARG:HB2	1.53	0.73
17:a:1066:MET:HE1	17:a:1442:MET:C	2.11	0.73
18:b:488:ILE:CD1	18:b:490:ARG:CG	2.65	0.73
19:c:120:ARG:HB2	19:c:141:ARG:HB3	1.71	0.73
27:k:82:PRO:HA	27:k:85:VAL:HG23	1.70	0.73
1:F:77:GLN:OE1	1:F:94:GLN:NE2	2.21	0.73
3:Q:177:GLU:OE1	6:K:46:GLN:NE2	2.20	0.73
8:N:417:ILE:HG21	8:N:475:CYS:HB2	1.71	0.73
9:D:26:UNK:C	17:a:980:LYS:NZ	2.50	0.73
17:a:846:ARG:NH1	17:a:1392:ARG:N	2.37	0.73
17:a:1101:VAL:N	17:a:1102:PRO:HD2	1.95	0.73
17:a:1388:MET:CE	17:a:1395:ILE:HD13	2.18	0.73
18:b:229:LEU:HA	18:b:230:GLU:HB3	0.75	0.73
18:b:401:SER:O	18:b:405:MET:HG2	1.87	0.73
18:b:587:ARG:HH21	18:b:601:ILE:HD11	1.53	0.73
18:b:703:GLY:C	18:b:704:TYR:HD1	1.95	0.73
18:b:754:PRO:O	18:b:758:TYR:CD1	2.41	0.73
26:j:42:ARG:HG3	26:j:42:ARG:NH1	1.96	0.73
27:k:24:SER:CB	27:k:25:LYS:HB2	2.18	0.73
1:F:84:ARG:NH2	2:H:82:PHE:O	2.22	0.73
4:R:112:PHE:HB2	5:T:74:ILE:HD12	1.70	0.73
17:a:90:LYS:CE	17:a:282:VAL:HG11	2.18	0.73
17:a:567:PRO:O	17:a:578:TRP:CZ3	2.41	0.73
17:a:713:GLY:C	17:a:714:MET:HG2	2.13	0.73
17:a:889:PHE:HZ	17:a:1020:LEU:HD21	1.54	0.73
17:a:1228:PHE:HD2	17:a:1246:ILE:HD11	1.50	0.73
18:b:24:PHE:HD2	18:b:665:TRP:CE2	2.07	0.73
18:b:105:ARG:HH12	18:b:777:ARG:NH2	1.84	0.73
18:b:753:SER:CB	18:b:754:PRO:HD3	2.18	0.73
19:c:212:GLU:CB	19:c:213:PRO:HA	2.15	0.73
24:h:80:VAL:HG13	24:h:95:VAL:HG23	1.68	0.73
8:N:518:LEU:HD22	8:N:531:LEU:HD13	1.70	0.73
17:a:267:ASP:N	17:a:268:LEU:CA	2.51	0.73
17:a:646:GLU:N	17:a:648:CYS:CB	2.42	0.73
24:h:108:HIS:HD2	24:h:111:LEU:HD13	1.54	0.73
17:a:516:GLN:HE22	18:b:1130:HIS:CD2	2.06	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1191:GLN:O	17:a:1246:ILE:CG1	2.37	0.73
17:a:1248:ASP:HA	17:a:1250:ASP:H	1.52	0.73
18:b:350:ILE:HG22	18:b:351:THR:HG22	1.70	0.73
24:h:72:ALA:HA	24:h:124:ARG:HA	1.70	0.73
25:i:51:SER:O	25:i:52:ASN:HB3	1.88	0.73
17:a:119:SER:O	17:a:122:PRO:HA	1.89	0.73
17:a:166:PRO:HB2	17:a:168:ALA:HB1	1.68	0.73
18:b:329:VAL:CA	18:b:330:THR:HG23	2.19	0.73
18:b:995:ILE:HD13	18:b:995:ILE:H	1.52	0.73
20:d:68:PHE:CD1	20:d:73:ALA:HB1	2.23	0.73
22:f:123:LEU:HD22	22:f:137:SER:CA	2.17	0.73
25:i:48:LEU:O	25:i:49:GLN:CB	2.36	0.73
5:T:94:GLN:HA	5:T:118:LYS:HD2	1.70	0.73
17:a:117:ILE:CG2	17:a:118:ASP:N	2.52	0.73
17:a:322:GLN:OE1	17:a:328:LEU:CD2	2.36	0.73
17:a:558:TRP:CH2	27:k:61:LYS:CG	2.70	0.73
17:a:1450:TYR:HB3	23:g:60:GLY:O	1.89	0.73
18:b:399:LEU:HD23	18:b:402:LEU:HD12	1.71	0.73
18:b:435:LYS:HB3	18:b:438:ILE:CG2	2.19	0.73
19:c:168:HIS:HD2	19:c:170:LYS:N	1.87	0.73
21:e:72:ILE:HA	21:e:101:THR:O	1.89	0.73
23:g:39:CYS:SG	23:g:45:TYR:CD1	2.80	0.73
24:h:63:LEU:C	24:h:63:LEU:HD22	2.10	0.73
17:a:178:ALA:O	17:a:179:GLN:CB	2.36	0.72
17:a:207:LEU:H	17:a:207:LEU:CD2	1.87	0.72
17:a:351:VAL:HG13	17:a:352:ASP:H	1.54	0.72
17:a:919:ASN:O	17:a:920:SER:CB	2.37	0.72
17:a:1157:TYR:CD1	25:i:43:VAL:HG21	2.23	0.72
18:b:101:PRO:CG	18:b:111:TYR:CE1	2.72	0.72
22:f:61:GLY:O	22:f:62:LYS:CG	2.37	0.72
1:F:87:PHE:HB3	1:F:112:ASN:HD21	1.52	0.72
17:a:195:ARG:HG3	17:a:196:GLY:CA	2.18	0.72
17:a:250:PRO:O	17:a:253:ARG:N	2.22	0.72
17:a:592:ILE:HD13	17:a:592:ILE:N	2.03	0.72
18:b:1207:LYS:CG	18:b:1208:ASN:H	2.01	0.72
19:c:125:SER:O	19:c:126:SER:CB	2.35	0.72
20:d:108:ILE:CG2	20:d:111:LEU:HG	2.19	0.72
21:e:202:ARG:HG3	21:e:202:ARG:O	1.87	0.72
2:H:121:GLN:HB3	2:H:124:LYS:HD2	1.71	0.72
17:a:147:LYS:HG2	17:a:148:MET:H	1.52	0.72
17:a:159:ASP:O	17:a:161:PHE:CE1	2.42	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:336:LYS:O	17:a:336:LYS:CG	2.30	0.72
17:a:432:LEU:HA	17:a:436:TRP:CH2	2.23	0.72
17:a:1496:PHE:HD2	20:d:33:LEU:HD21	1.40	0.72
18:b:329:VAL:CA	18:b:330:THR:CG2	2.61	0.72
18:b:452:TRP:HB2	18:b:461:ASN:ND2	2.05	0.72
20:d:84:ARG:HA	20:d:90:ARG:HD2	1.71	0.72
23:g:51:ASP:CA	23:g:55:ILE:CD1	2.59	0.72
3:Q:218:LEU:HD22	3:Q:227:LEU:HD13	1.69	0.72
8:N:199:VAL:CG1	8:N:217:TRP:HB3	2.06	0.72
17:a:266:ASP:HA	17:a:267:ASP:CB	2.18	0.72
17:a:388:PRO:HA	17:a:434:TYR:CE1	2.25	0.72
17:a:806:ILE:HD13	17:a:814:LEU:CG	2.19	0.72
17:a:853:ASP:HB3	17:a:864:ASN:ND2	2.04	0.72
18:b:329:VAL:HG13	18:b:329:VAL:O	1.89	0.72
17:a:177:ALA:HB3	17:a:179:GLN:CD	2.14	0.72
17:a:336:LYS:HB2	17:a:1410:GLU:OE1	1.90	0.72
17:a:355:ALA:HB1	18:b:1093:HIS:O	1.88	0.72
17:a:1146:LEU:HD12	17:a:1274:LEU:CA	2.19	0.72
17:a:1191:GLN:CA	17:a:1246:ILE:HG23	2.19	0.72
21:e:135:LEU:HD11	21:e:178:PRO:HB3	1.70	0.72
17:a:231:ASN:ND2	17:a:234:TYR:HD2	1.87	0.72
17:a:359:ILE:HD12	17:a:359:ILE:O	1.90	0.72
17:a:517:ILE:CG1	17:a:640:TRP:CD1	2.71	0.72
17:a:573:LYS:HG2	24:h:75:ILE:H	1.55	0.72
17:a:816:PRO:HB2	18:b:689:MET:CE	2.18	0.72
17:a:864:ASN:ND2	17:a:865:ALA:H	1.88	0.72
17:a:1191:GLN:O	17:a:1246:ILE:HG12	1.89	0.72
17:a:1192:SER:HB3	17:a:1246:ILE:HG13	1.70	0.72
17:a:1450:TYR:C	17:a:1451:LEU:HG	2.14	0.72
18:b:1145:ASP:O	18:b:1147:TYR:N	2.23	0.72
3:Q:521:SER:OG	3:Q:525:ASN:ND2	2.23	0.72
7:V:112:ASN:HA	7:V:115:LEU:HD12	1.72	0.72
17:a:36:LYS:O	17:a:37:ILE:HB	1.89	0.72
17:a:208:LEU:CD2	17:a:209:SER:H	2.02	0.72
17:a:614:GLU:O	17:a:616:GLY:N	2.21	0.72
17:a:947:LYS:HE3	17:a:1023:ILE:HD12	1.70	0.72
17:a:1260:ILE:O	17:a:1260:ILE:CG1	2.30	0.72
18:b:658:ASP:O	18:b:660:GLU:HB2	1.88	0.72
18:b:986:GLU:CD	18:b:986:GLU:H	1.98	0.72
18:b:1205:PHE:CE2	18:b:1210:LYS:CA	2.73	0.72
19:c:38:ALA:HA	19:c:165:ALA:HB3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:g:10:LEU:CD2	23:g:35:VAL:CG2	2.60	0.72
23:g:51:ASP:CB	23:g:55:ILE:HD11	2.20	0.72
27:k:59:GLY:O	27:k:60:TYR:HB3	1.88	0.72
17:a:48:GLN:C	17:a:50:PRO:CD	2.63	0.72
17:a:106:GLU:HB3	17:a:144:CYS:CB	2.20	0.72
17:a:639:ILE:HA	17:a:642:GLU:O	1.90	0.72
17:a:806:ILE:CD1	17:a:814:LEU:CD2	2.67	0.72
17:a:1061:VAL:HG22	17:a:1062:SER:HB3	1.72	0.72
17:a:1192:SER:HB2	17:a:1244:ARG:HB3	1.71	0.72
18:b:216:PRO:HB2	18:b:218:PRO:HD3	1.71	0.72
18:b:907:ILE:HD13	18:b:924:ARG:HH21	1.49	0.72
20:d:108:ILE:HG22	20:d:111:LEU:HG	1.72	0.72
21:e:72:ILE:HD12	21:e:72:ILE:O	1.89	0.72
23:g:80:TRP:CH2	23:g:107:LEU:HB3	2.24	0.72
23:g:122:PHE:CB	23:g:131:TYR:CE1	2.73	0.72
23:g:133:GLY:HA3	23:g:134:GLU:HB2	1.63	0.72
17:a:48:GLN:HG3	17:a:50:PRO:CD	2.17	0.72
17:a:94:HIS:C	17:a:98:LEU:CG	2.61	0.72
17:a:696:VAL:HG22	17:a:727:ILE:HD11	1.70	0.72
17:a:846:ARG:CD	17:a:1390:ILE:O	2.36	0.72
17:a:1320:THR:HG23	17:a:1321:GLU:N	2.05	0.72
18:b:164:CYS:SG	18:b:165:ILE:N	2.62	0.72
18:b:651:ASP:CG	18:b:662:ARG:HB3	2.15	0.72
18:b:695:GLU:O	18:b:699:GLN:HG3	1.89	0.72
19:c:137:ASP:CB	19:c:140:SER:HB2	2.19	0.72
19:c:165:ALA:HB2	19:c:172:SER:HB3	1.71	0.72
20:d:61:TYR:CE1	23:g:105:GLY:O	2.43	0.72
1:F:48:ASN:HA	1:F:51:MET:HG2	1.72	0.72
17:a:30:ARG:CG	17:a:244:VAL:HG11	2.20	0.72
17:a:88:LEU:CB	17:a:243:THR:O	2.36	0.72
17:a:155:SER:HB2	17:a:169:ASN:HB3	1.72	0.72
17:a:271:LYS:HD3	17:a:322:GLN:HE22	1.55	0.72
17:a:351:VAL:CG1	17:a:352:ASP:H	2.02	0.72
17:a:559:VAL:H	17:a:560:PRO:HA	1.55	0.72
17:a:1260:ILE:HD12	25:i:30:ARG:HH21	1.55	0.72
7:V:93:VAL:HG13	7:V:95:TYR:HD2	1.54	0.71
17:a:119:SER:H	17:a:120:SER:HB2	1.55	0.71
17:a:398:VAL:CG1	17:a:411:ILE:HD11	2.17	0.71
17:a:445:GLY:HA3	17:a:465:ARG:HB3	1.72	0.71
17:a:778:GLY:O	17:a:1092:VAL:HG23	1.88	0.71
17:a:1411:THR:O	17:a:1412:VAL:CG1	2.33	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:213:LYS:O	18:b:214:ALA:HB2	1.89	0.71
18:b:243:LEU:C	18:b:244:MET:HG2	2.13	0.71
18:b:273:ARG:CZ	18:b:310:ILE:HD12	2.20	0.71
18:b:767:MET:HB2	18:b:1083:ARG:O	1.90	0.71
21:e:22:VAL:HG21	21:e:29:VAL:HG21	1.72	0.71
24:h:71:ALA:HB1	24:h:124:ARG:HD3	1.71	0.71
25:i:59:SER:C	25:i:61:ASP:H	1.97	0.71
25:i:101:TYR:HB3	25:i:110:PHE:CZ	2.24	0.71
4:R:90:ARG:O	4:R:204:ASN:ND2	2.23	0.71
17:a:95:ILE:CD1	17:a:314:ILE:HD13	2.20	0.71
17:a:341:ARG:NH2	18:b:1190:LEU:CD1	2.53	0.71
17:a:773:GLN:HE22	17:a:780:ARG:HB2	1.52	0.71
17:a:1478:LEU:CD1	17:a:1479:PRO:HD2	2.16	0.71
18:b:278:VAL:N	18:b:279:PRO:CD	2.53	0.71
20:d:84:ARG:O	20:d:90:ARG:HD2	1.91	0.71
23:g:79:LEU:HD12	23:g:81:ARG:HH21	1.55	0.71
23:g:80:TRP:CZ3	23:g:107:LEU:HB2	2.18	0.71
24:h:38:LEU:HD23	24:h:104:ILE:CG2	2.20	0.71
25:i:39:ALA:O	25:i:40:THR:CG2	2.38	0.71
3:Q:135:GLU:HA	20:d:128:SER:HB2	1.72	0.71
17:a:40:PRO:HB3	17:a:276:ILE:CB	2.20	0.71
17:a:169:ASN:O	17:a:170:MET:HG2	1.90	0.71
17:a:380:LEU:C	17:a:381:THR:HG22	2.09	0.71
17:a:433:ARG:HB2	17:a:436:TRP:CE3	2.25	0.71
17:a:863:ARG:HG2	17:a:869:ILE:HG22	1.72	0.71
17:a:877:ASP:CB	17:a:1372:ARG:HH22	2.03	0.71
17:a:946:CYS:CB	17:a:949:ILE:HD11	2.19	0.71
25:i:8:ILE:O	25:i:9:GLU:HB2	1.90	0.71
25:i:65:ASP:CB	25:i:68:LEU:HD12	2.19	0.71
17:a:30:ARG:NE	17:a:244:VAL:CG2	2.53	0.71
17:a:94:HIS:H	17:a:98:LEU:CD1	2.03	0.71
17:a:213:VAL:HG12	17:a:217:PHE:CE2	2.26	0.71
17:a:654:GLY:O	17:a:658:VAL:HG23	1.88	0.71
17:a:1156:HIS:CE1	25:i:42:LYS:HG2	2.26	0.71
18:b:281:ARG:HB2	25:i:6:TYR:CD2	2.25	0.71
18:b:391:ARG:NH1	18:b:615:ASP:HB3	2.05	0.71
18:b:407:PHE:O	18:b:410:MET:HB2	1.90	0.71
18:b:752:GLN:C	18:b:754:PRO:HD2	2.14	0.71
18:b:869:SER:O	18:b:870:THR:CG2	2.37	0.71
17:a:8:PRO:CG	18:b:1148:ARG:NE	2.54	0.71
17:a:266:ASP:C	17:a:268:LEU:HB3	2.16	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1087:PHE:O	17:a:1088:HIS:C	2.34	0.71
17:a:1167:GLU:C	17:a:1168:GLU:HG3	2.11	0.71
18:b:206:ASN:H	18:b:227:SER:HB3	1.54	0.71
18:b:472:TYR:CD1	18:b:1085:LYS:HE2	2.25	0.71
18:b:538:ALA:O	18:b:540:ILE:N	2.22	0.71
24:h:63:LEU:O	24:h:63:LEU:CD2	2.30	0.71
25:i:19:ASP:OD2	25:i:26:ARG:HG3	1.91	0.71
17:a:65:ARG:C	17:a:67:PHE:CD1	2.68	0.71
17:a:352:ASP:HA	18:b:1095:ARG:HG2	1.72	0.71
17:a:1317:ILE:HB	17:a:1318:ASN:HB3	1.71	0.71
18:b:200:GLN:OE1	18:b:487:PRO:HG2	1.90	0.71
17:a:38:GLU:C	17:a:40:PRO:HD3	2.15	0.71
17:a:84:GLY:O	17:a:247:VAL:N	2.24	0.71
17:a:267:ASP:N	17:a:268:LEU:HB3	2.04	0.71
17:a:343:ARG:CG	17:a:1409:GLU:OE2	2.32	0.71
17:a:653:ASN:O	17:a:657:ARG:HB2	1.90	0.71
21:e:51:ASN:O	21:e:52:LEU:C	2.34	0.71
24:h:116:LEU:O	24:h:118:HIS:N	2.23	0.71
25:i:25:LEU:HB2	25:i:38:ALA:HB3	1.73	0.71
8:N:533:ASN:H	8:N:534:ALA:C	1.97	0.71
17:a:776:VAL:HG22	17:a:776:VAL:O	1.90	0.71
17:a:1125:PRO:HB3	17:a:1129:ALA:N	2.05	0.71
17:a:1253:ALA:HB1	17:a:1254:GLU:CB	2.20	0.71
18:b:109:LEU:HD23	18:b:110:THR:O	1.90	0.71
18:b:296:MET:HE1	18:b:372:LEU:CA	2.21	0.71
18:b:659:PRO:HB3	18:b:661:GLN:CD	2.14	0.71
20:d:11:ALA:HA	20:d:12:GLN:HB2	1.69	0.71
25:i:7:CYS:HB2	25:i:34:TYR:CD2	2.26	0.71
3:Q:135:GLU:HB3	20:d:128:SER:HB2	1.43	0.71
17:a:94:HIS:O	17:a:98:LEU:HB2	1.91	0.71
17:a:398:VAL:HG12	17:a:421:LEU:HD11	1.71	0.71
17:a:963:VAL:HA	17:a:966:ILE:HG12	1.73	0.71
17:a:1261:GLU:O	17:a:1262:GLU:C	2.34	0.71
18:b:255:ILE:HD11	18:b:268:ILE:HD13	1.71	0.71
25:i:25:LEU:CB	25:i:38:ALA:HB3	2.20	0.71
5:T:38:VAL:O	5:T:91:ASN:N	2.23	0.71
17:a:861:THR:HG21	17:a:863:ARG:HE	1.55	0.71
17:a:1091:GLY:HA2	17:a:1092:VAL:HB	1.71	0.71
17:a:1094:SER:O	17:a:1095:LYS:HD2	1.91	0.71
17:a:1179:ILE:N	17:a:1180:PRO:CD	2.54	0.71
17:a:1348:GLU:HG3	21:e:193:ILE:HD12	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1485:PRO:O	17:a:1486:TYR:CB	2.38	0.71
18:b:229:LEU:HD12	18:b:231:ARG:NE	2.06	0.71
21:e:23:HIS:HA	21:e:24:ASP:C	2.15	0.71
17:a:260:GLY:N	18:b:924:ARG:CD	2.53	0.70
17:a:860:GLY:HA2	17:a:874:TYR:CE1	2.26	0.70
17:a:905:ILE:HD13	17:a:905:ILE:H	1.55	0.70
18:b:199:ALA:C	18:b:200:GLN:HG2	2.16	0.70
18:b:728:THR:HG23	18:b:729:HIS:ND1	2.06	0.70
21:e:56:THR:HG23	21:e:56:THR:O	1.91	0.70
8:N:292:GLY:O	8:N:294:LEU:N	2.23	0.70
17:a:382:TYR:CE1	17:a:446:ASP:OD1	2.44	0.70
17:a:652:PHE:O	17:a:656:GLN:HB3	1.91	0.70
17:a:1009:ILE:HG22	21:e:162:ARG:NH2	2.06	0.70
18:b:273:ARG:NH1	18:b:310:ILE:HG13	2.06	0.70
21:e:22:VAL:HG13	21:e:27:TYR:HB2	1.73	0.70
23:g:10:LEU:HD22	23:g:35:VAL:HG21	1.69	0.70
2:H:75:SER:HB2	3:Q:157:SER:HB3	1.71	0.70
17:a:106:GLU:HB2	17:a:144:CYS:SG	2.29	0.70
17:a:517:ILE:HD11	17:a:640:TRP:NE1	2.05	0.70
17:a:1071:ALA:HA	17:a:1373:HIS:CD2	2.27	0.70
17:a:1395:ILE:CD1	17:a:1397:ARG:HD2	2.09	0.70
17:a:1402:ALA:HA	17:a:1405:ARG:HD2	1.73	0.70
18:b:741:LEU:HD22	18:b:760:SER:HA	1.73	0.70
20:d:111:LEU:O	20:d:112:ALA:C	2.33	0.70
24:h:80:VAL:HG22	24:h:95:VAL:CG2	2.21	0.70
3:Q:415:MET:HB3	3:Q:502:HIS:HE1	1.56	0.70
17:a:343:ARG:CG	18:b:1121:GLU:OE1	2.38	0.70
17:a:368:ASP:OD1	17:a:649:LYS:CE	2.40	0.70
17:a:523:ASN:O	17:a:523:ASN:ND2	2.24	0.70
17:a:1170:LYS:HG2	17:a:1240:ILE:HD12	1.71	0.70
18:b:229:LEU:CD1	18:b:231:ARG:CZ	2.69	0.70
21:e:97:HIS:HB2	21:e:99:HIS:CE1	2.26	0.70
21:e:100:LYS:C	21:e:101:THR:HG23	2.16	0.70
24:h:111:LEU:C	24:h:113:ARG:H	1.99	0.70
5:T:89:LEU:HB3	5:T:90:TRP:HD1	1.55	0.70
17:a:65:ARG:N	17:a:67:PHE:CE1	2.59	0.70
17:a:104:ILE:O	17:a:105:LEU:C	2.35	0.70
17:a:147:LYS:HG2	17:a:148:MET:N	2.07	0.70
17:a:232:GLU:O	17:a:232:GLU:CG	2.36	0.70
17:a:727:ILE:HG13	17:a:728:LEU:N	2.06	0.70
17:a:1122:TYR:O	17:a:1123:LEU:HD13	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:551:THR:O	18:b:575:VAL:HG12	1.91	0.70
18:b:831:ASN:HD22	18:b:832:GLN:N	1.90	0.70
20:d:25:LEU:HD23	20:d:29:GLU:CD	2.17	0.70
23:g:134:GLU:O	23:g:135:ASP:C	2.35	0.70
4:R:33:LEU:HG	4:R:62:ILE:HG13	1.73	0.70
17:a:73:GLY:O	18:b:1163:TYR:CE2	2.45	0.70
17:a:372:VAL:HG21	17:a:466:ILE:HG22	1.72	0.70
17:a:433:ARG:CB	17:a:436:TRP:CD2	2.74	0.70
17:a:822:HIS:NE2	18:b:752:GLN:C	2.49	0.70
17:a:1142:GLU:O	17:a:1281:GLY:CA	2.37	0.70
18:b:296:MET:HE1	18:b:372:LEU:CB	2.15	0.70
18:b:421:CYS:O	18:b:426:ARG:N	2.25	0.70
18:b:872:LEU:O	18:b:872:LEU:HG	1.92	0.70
23:g:149:VAL:CG2	23:g:163:THR:HG23	2.22	0.70
24:h:38:LEU:HD23	24:h:104:ILE:HG22	1.74	0.70
5:T:64:MET:CE	5:T:77:GLU:HG3	2.21	0.70
5:T:99:GLU:O	5:T:114:ASN:N	2.25	0.70
8:N:347:LYS:HG2	8:N:348:ARG:HG2	1.74	0.70
17:a:268:LEU:O	17:a:269:THR:C	2.34	0.70
17:a:269:THR:O	17:a:272:LEU:N	2.24	0.70
17:a:338:LYS:CD	17:a:339:GLU:H	2.05	0.70
17:a:728:LEU:HD13	17:a:805:PHE:CE2	2.25	0.70
17:a:780:ARG:O	17:a:781:ILE:C	2.35	0.70
17:a:1246:ILE:O	17:a:1247:ARG:HG2	1.90	0.70
17:a:1484:THR:HG23	17:a:1484:THR:O	1.89	0.70
19:c:130:LEU:CB	19:c:131:GLY:CA	2.70	0.70
20:d:51:MET:O	20:d:55:MET:HB2	1.91	0.70
20:d:102:GLU:O	20:d:106:THR:HG23	1.92	0.70
23:g:101:PHE:CE1	23:g:110:PHE:CD1	2.79	0.70
17:a:646:GLU:CA	17:a:648:CYS:H	2.05	0.70
17:a:800:PRO:C	17:a:802:SER:H	2.00	0.70
17:a:1075:ILE:O	17:a:1078:PRO:CG	2.39	0.70
17:a:1484:THR:H	17:a:1485:PRO:HD3	1.55	0.70
18:b:212:LYS:NZ	18:b:381:PRO:HG2	2.05	0.70
18:b:290:ASP:C	18:b:290:ASP:OD1	2.35	0.70
18:b:832:GLN:HB2	18:b:982:THR:OG1	1.90	0.70
18:b:856:GLY:HA3	18:b:857:MET:C	2.17	0.70
4:R:140:ILE:HD11	4:R:165:TRP:HB3	1.74	0.70
17:a:59:ARG:N	17:a:60:LEU:HG	2.07	0.70
17:a:116:LYS:HG2	17:a:117:ILE:H	1.57	0.70
17:a:153:GLY:C	17:a:154:LEU:HG	2.17	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:244:VAL:O	17:a:245:LEU:C	2.34	0.70
17:a:419:ILE:HG22	17:a:419:ILE:O	1.92	0.70
17:a:512:MET:HB3	17:a:514:PRO:HD2	1.74	0.70
17:a:1228:PHE:HE2	17:a:1246:ILE:HD13	1.56	0.70
17:a:1263:ASP:HA	17:a:1266:LEU:HD12	1.74	0.70
17:a:1394:GLY:O	17:a:1395:ILE:C	2.32	0.70
18:b:412:ARG:O	18:b:416:LYS:HG3	1.92	0.70
19:c:27:ALA:HB2	27:k:47:ASN:HB2	1.73	0.70
20:d:85:PHE:CZ	20:d:115:ILE:HG13	2.26	0.70
21:e:101:THR:HG21	21:e:126:THR:HG23	1.66	0.70
24:h:59:ILE:O	24:h:60:THR:CG2	2.36	0.70
5:T:33:HIS:CE1	5:T:99:GLU:OE2	2.44	0.70
17:a:57:ASP:O	17:a:59:ARG:C	2.35	0.70
17:a:921:ILE:O	17:a:922:GLU:CB	2.40	0.70
18:b:685:VAL:CG1	18:b:728:THR:HG21	2.22	0.70
18:b:754:PRO:O	18:b:758:TYR:CE1	2.45	0.70
3:Q:283:TRP:HE1	3:Q:285:TRP:CD1	2.10	0.69
8:N:196:GLU:CD	8:N:223:GLN:HE21	1.99	0.69
17:a:180:PRO:HG3	17:a:193:TRP:HE1	1.55	0.69
17:a:187:LEU:HD12	17:a:304:PHE:CE1	2.27	0.69
17:a:404:GLU:O	17:a:405:HIS:C	2.33	0.69
17:a:516:GLN:NE2	18:b:1130:HIS:CD2	2.60	0.69
17:a:1104:LEU:HD11	17:a:1108:LEU:HD11	1.74	0.69
17:a:1228:PHE:CE2	17:a:1246:ILE:HD13	2.27	0.69
17:a:1412:VAL:O	17:a:1413:GLU:C	2.35	0.69
18:b:330:THR:O	18:b:334:ARG:HG3	1.92	0.69
18:b:686:MET:H	18:b:728:THR:CG2	2.05	0.69
19:c:51:ASN:HB2	19:c:155:SER:OG	1.92	0.69
25:i:8:ILE:HG22	25:i:9:GLU:H	1.57	0.69
25:i:15:TYR:N	25:i:28:ALA:O	2.25	0.69
17:a:269:THR:O	17:a:270:HIS:C	2.34	0.69
17:a:467:ARG:CA	17:a:468:VAL:HB	2.14	0.69
17:a:848:VAL:O	17:a:852:GLU:HG3	1.90	0.69
17:a:1006:SER:HA	17:a:1007:ASP:C	2.17	0.69
19:c:7:ILE:HD13	27:k:104:PHE:HA	1.74	0.69
22:f:123:LEU:HD23	22:f:137:SER:HA	1.70	0.69
23:g:35:VAL:HG13	23:g:46:ILE:CD1	2.22	0.69
2:H:79:SER:N	3:Q:153:SER:O	2.25	0.69
8:N:399:ARG:CZ	8:N:408:SER:O	2.40	0.69
17:a:712:PRO:C	17:a:714:MET:H	2.00	0.69
26:j:49:ILE:HD12	26:j:50:LEU:N	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:20:ASN:ND2	7:V:86:LEU:O	2.24	0.69
17:a:162:ASP:CA	17:a:165:ASN:HB2	2.16	0.69
17:a:178:ALA:C	17:a:179:GLN:HG3	2.18	0.69
17:a:194:LYS:HG3	17:a:195:ARG:H	1.57	0.69
17:a:480:VAL:O	17:a:480:VAL:HG12	1.93	0.69
17:a:1228:PHE:CD2	17:a:1246:ILE:CD1	2.75	0.69
17:a:1265:PHE:O	17:a:1269:ILE:HG13	1.92	0.69
17:a:1490:PRO:O	17:a:1491:MET:C	2.36	0.69
18:b:310:ILE:CB	18:b:311:GLN:CA	2.37	0.69
18:b:712:PRO:O	18:b:713:ALA:C	2.34	0.69
23:g:46:ILE:CA	23:g:79:LEU:HD23	2.03	0.69
23:g:144:VAL:HG13	23:g:170:GLY:O	1.91	0.69
25:i:19:ASP:O	25:i:20:LYS:C	2.36	0.69
3:Q:127:SER:HB3	3:Q:138:ILE:HA	1.74	0.69
3:Q:288:GLN:O	3:Q:296:LYS:NZ	2.25	0.69
8:N:427:LYS:H	8:N:433:GLY:HA2	1.57	0.69
17:a:21:PHE:HZ	17:a:1403:LEU:HD12	1.58	0.69
17:a:356:ARG:HH21	17:a:492:GLU:HB2	1.57	0.69
17:a:386:VAL:HG21	17:a:436:TRP:HE1	1.58	0.69
17:a:587:ILE:CD1	17:a:655:ILE:HG12	2.22	0.69
18:b:423:GLU:C	18:b:424:THR:HG23	2.17	0.69
21:e:199:THR:N	21:e:201:GLY:N	2.38	0.69
25:i:95:THR:O	25:i:96:MET:C	2.36	0.69
3:Q:135:GLU:OE1	20:d:124:LEU:CD1	2.40	0.69
17:a:192:SER:HB3	17:a:202:LEU:C	2.18	0.69
17:a:419:ILE:HG21	17:a:425:LYS:CE	2.21	0.69
17:a:822:HIS:CE1	18:b:752:GLN:O	2.46	0.69
17:a:1489:SER:O	17:a:1490:PRO:C	2.36	0.69
18:b:16:ASP:HA	18:b:19:THR:HG22	1.74	0.69
25:i:58:VAL:O	25:i:60:HIS:N	2.26	0.69
5:T:94:GLN:CB	19:c:89:ASN:C	2.66	0.69
5:T:157:SER:O	5:T:159:THR:HG23	1.91	0.69
17:a:177:ALA:CB	17:a:178:ALA:O	2.39	0.69
17:a:1338:PHE:HA	17:a:1341:ILE:HG13	1.73	0.69
18:b:262:ILE:CG2	18:b:323:ARG:O	2.40	0.69
18:b:325:SER:C	18:b:326:THR:HG23	2.17	0.69
18:b:831:ASN:C	18:b:831:ASN:ND2	2.48	0.69
18:b:965:ILE:CD1	18:b:981:MET:HE2	2.22	0.69
18:b:1205:PHE:CE2	18:b:1210:LYS:O	2.45	0.69
21:e:195:ARG:C	21:e:197:SER:H	2.01	0.69
25:i:46:HIS:O	25:i:47:GLU:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:400:HIS:HA	3:Q:403:LYS:HB2	1.75	0.69
3:Q:458:TYR:HB2	3:Q:461:GLU:HG2	1.74	0.69
17:a:25:SER:HB3	17:a:239:TRP:CE2	2.28	0.69
17:a:30:ARG:HG3	17:a:244:VAL:HG11	1.74	0.69
17:a:193:TRP:HZ3	17:a:206:ARG:HB3	1.57	0.69
17:a:271:LYS:CE	17:a:328:LEU:CD1	2.71	0.69
17:a:640:TRP:H	17:a:641:LYS:C	2.00	0.69
17:a:646:GLU:N	17:a:648:CYS:N	2.41	0.69
17:a:717:ARG:O	17:a:717:ARG:HD3	1.93	0.69
17:a:773:GLN:NE2	17:a:780:ARG:CB	2.55	0.69
17:a:1167:GLU:O	17:a:1168:GLU:CB	2.41	0.69
17:a:1177:PHE:O	17:a:1180:PRO:CG	2.40	0.69
18:b:486:THR:CG2	18:b:521:LEU:HB3	2.22	0.69
18:b:694:LEU:HD23	18:b:727:TRP:CD1	2.28	0.69
19:c:67:GLY:HA3	19:c:170:LYS:HZ1	1.55	0.69
20:d:43:ARG:C	20:d:44:GLU:HG3	2.17	0.69
24:h:75:ILE:HG12	24:h:122:LEU:HD23	1.74	0.69
5:T:33:HIS:HB2	5:T:57:LYS:HD2	1.74	0.69
17:a:24:LEU:CB	18:b:1199:ASN:O	2.38	0.69
17:a:75:THR:CB	17:a:76:MET:HA	2.17	0.69
17:a:108:VAL:CG1	17:a:114:LYS:N	2.52	0.69
17:a:154:LEU:N	17:a:173:GLY:HA2	2.07	0.69
17:a:1165:VAL:CG1	17:a:1166:ILE:H	1.81	0.69
17:a:1276:SER:C	17:a:1277:ILE:CG1	2.61	0.69
18:b:741:LEU:CD2	18:b:760:SER:HA	2.23	0.69
20:d:25:LEU:CD2	20:d:29:GLU:OE2	2.41	0.69
22:f:61:GLY:O	22:f:62:LYS:HG2	1.93	0.69
23:g:100:PHE:CB	23:g:111:VAL:HG11	2.07	0.69
8:N:305:LEU:HB2	8:N:330:ILE:HB	1.75	0.69
17:a:58:PRO:C	17:a:60:LEU:HG	2.17	0.69
17:a:1412:VAL:HG13	17:a:1413:GLU:CG	2.22	0.69
25:i:6:TYR:O	25:i:7:CYS:CB	2.41	0.69
3:Q:264:ALA:HB1	3:Q:347:LEU:HD11	1.75	0.68
14:I:95:LEU:O	14:I:99:ASN:N	2.22	0.68
17:a:11:VAL:CG1	18:b:1179:PHE:HB2	2.23	0.68
17:a:120:SER:HG	17:a:121:ASN:HB2	1.56	0.68
17:a:187:LEU:HD12	17:a:304:PHE:HE1	1.59	0.68
17:a:322:GLN:OE1	17:a:328:LEU:HG	1.93	0.68
17:a:328:LEU:O	17:a:328:LEU:CD1	2.37	0.68
17:a:836:LYS:HA	17:a:840:THR:HG23	1.75	0.68
17:a:1107:ILE:HG23	17:a:1338:PHE:CE2	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1403:LEU:HB3	17:a:1432:GLU:CD	2.18	0.68
17:a:1405:ARG:HA	17:a:1408:PHE:HD1	1.59	0.68
17:a:1478:LEU:CD2	20:d:45:THR:HB	2.22	0.68
18:b:427:GLU:O	18:b:428:PHE:CD2	2.46	0.68
18:b:944:THR:HA	28:l:39:ILE:HG21	1.73	0.68
19:c:53:ASN:HA	19:c:154:ILE:HG22	1.75	0.68
20:d:71:ALA:O	20:d:75:TYR:CE1	2.46	0.68
23:g:115:LEU:HD22	23:g:163:THR:CG2	2.21	0.68
25:i:91:ARG:HG2	25:i:92:ARG:N	2.08	0.68
26:j:16:ASP:OD1	26:j:17:LYS:HG3	1.92	0.68
2:H:176:ASP:O	2:H:179:THR:OG1	2.08	0.68
4:R:37:VAL:HG23	4:R:58:LEU:HB2	1.76	0.68
17:a:420:ASP:OD1	17:a:422:ARG:HB2	1.92	0.68
17:a:510:ILE:HD11	18:b:1132:CYS:SG	2.32	0.68
17:a:1107:ILE:HG23	17:a:1338:PHE:HE2	1.56	0.68
17:a:1164:THR:O	17:a:1165:VAL:CB	2.42	0.68
17:a:1166:ILE:CB	17:a:1167:GLU:HB3	2.23	0.68
17:a:1173:VAL:HG12	17:a:1177:PHE:HE2	0.66	0.68
18:b:510:PRO:HG3	18:b:739:GLY:H	1.58	0.68
18:b:752:GLN:HG3	18:b:1010:MET:CE	2.24	0.68
23:g:119:ASP:O	23:g:133:GLY:HA2	1.92	0.68
25:i:24:VAL:CG1	25:i:25:LEU:N	2.56	0.68
28:l:56:ARG:O	28:l:56:ARG:HD3	1.93	0.68
4:R:52:PRO:HA	4:R:55:TRP:HD1	1.59	0.68
17:a:110:TRP:CH2	17:a:180:PRO:HG2	2.27	0.68
17:a:193:TRP:CZ3	17:a:206:ARG:CB	2.75	0.68
17:a:311:ASP:HB2	17:a:314:ILE:CG1	2.23	0.68
17:a:381:THR:HB	17:a:440:ARG:O	1.92	0.68
17:a:1180:PRO:O	17:a:1181:ASP:C	2.36	0.68
18:b:309:VAL:O	18:b:310:ILE:C	2.35	0.68
18:b:430:LEU:C	18:b:432:LEU:H	2.01	0.68
18:b:434:VAL:O	18:b:434:VAL:HG12	1.93	0.68
18:b:622:PRO:HG3	18:b:676:TYR:CE2	2.28	0.68
18:b:1058:PHE:CE2	19:c:193:TRP:CD1	2.80	0.68
19:c:129:SER:HB2	19:c:130:LEU:CA	2.22	0.68
25:i:48:LEU:O	25:i:49:GLN:HB3	1.93	0.68
25:i:65:ASP:OD1	25:i:67:THR:HG22	1.93	0.68
26:j:1:MET:O	26:j:2:ILE:HG12	1.94	0.68
17:a:127:THR:HA	17:a:130:TYR:CD2	2.23	0.68
17:a:407:GLY:C	17:a:441:HIS:HD1	2.00	0.68
17:a:430:ILE:O	17:a:431:PRO:C	2.36	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:550:ASN:O	17:a:551:ALA:HB2	1.92	0.68
17:a:1174:GLU:OE2	17:a:1242:ARG:NE	2.27	0.68
17:a:1293:HIS:HD2	17:a:1311:VAL:HB	1.56	0.68
17:a:1496:PHE:HD2	20:d:33:LEU:CD1	2.07	0.68
18:b:235:LEU:O	18:b:235:LEU:CD2	2.39	0.68
18:b:1108:VAL:CG2	18:b:1109:GLU:N	2.57	0.68
23:g:155:ALA:C	23:g:157:GLU:H	2.02	0.68
8:N:192:THR:N	8:N:194:PRO:HD3	2.03	0.68
17:a:341:ARG:NH1	18:b:1190:LEU:HB3	2.08	0.68
17:a:770:CYS:C	17:a:771:VAL:HG23	2.18	0.68
17:a:918:GLU:HB2	17:a:981:PRO:HG2	1.76	0.68
17:a:1100:GLY:O	17:a:1101:VAL:C	2.34	0.68
17:a:1200:LEU:HD11	17:a:1215:VAL:HG11	1.76	0.68
18:b:116:TYR:CE1	18:b:151:PHE:HB2	2.28	0.68
18:b:867:VAL:CG2	18:b:869:SER:OG	2.42	0.68
19:c:19:PHE:CZ	19:c:231:MET:HE3	2.29	0.68
20:d:88:PHE:CZ	23:g:86:GLU:HG2	2.27	0.68
3:Q:442:GLN:HG2	3:Q:452:PHE:HE2	1.57	0.68
17:a:258:VAL:O	17:a:259:ASP:C	2.36	0.68
17:a:815:THR:CG2	18:b:715:ARG:HB3	2.13	0.68
17:a:1161:PRO:HG2	17:a:1190:LYS:CB	2.18	0.68
17:a:1183:GLU:O	17:a:1186:GLU:CG	2.42	0.68
17:a:23:ILE:CG1	17:a:1419:ALA:O	2.42	0.68
17:a:26:PRO:HD2	17:a:239:TRP:NE1	2.09	0.68
17:a:386:VAL:HG21	17:a:436:TRP:NE1	2.07	0.68
17:a:780:ARG:NH1	17:a:803:ARG:NE	2.42	0.68
17:a:1071:ALA:CA	17:a:1373:HIS:CD2	2.77	0.68
17:a:1248:ASP:HA	17:a:1250:ASP:N	2.08	0.68
17:a:1450:TYR:CE1	23:g:61:ARG:CB	2.76	0.68
18:b:207:ILE:HD13	18:b:209:GLN:HB3	1.76	0.68
18:b:659:PRO:CG	18:b:661:GLN:HE21	2.05	0.68
20:d:96:LEU:N	20:d:96:LEU:CD2	2.57	0.68
3:Q:212:LYS:HB2	3:Q:218:LEU:HD11	1.76	0.68
8:N:328:ILE:HG13	8:N:362:TRP:HA	1.76	0.68
17:a:24:LEU:HD23	18:b:1201:ALA:HB2	1.76	0.68
17:a:775:ILE:C	17:a:775:ILE:HD12	2.18	0.68
17:a:827:ARG:HH11	17:a:827:ARG:HG3	1.59	0.68
17:a:948:PHE:C	17:a:950:PHE:H	1.99	0.68
17:a:1390:ILE:CD1	17:a:1395:ILE:HG22	2.22	0.68
18:b:1058:PHE:HE2	19:c:193:TRP:HD1	1.42	0.68
28:l:48:VAL:O	28:l:49:MET:HB2	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:115:LYS:HD3	5:T:72:THR:HB	1.76	0.68
4:R:141:TYR:HB2	4:R:166:ILE:HB	1.75	0.68
5:T:93:ARG:CZ	19:c:93:ASP:OD1	2.41	0.68
17:a:147:LYS:O	17:a:148:MET:CB	2.42	0.68
17:a:512:MET:C	17:a:514:PRO:HD2	2.19	0.68
17:a:709:LYS:CB	17:a:710:PRO:CD	2.56	0.68
17:a:1082:MET:O	17:a:1086:THR:HG23	1.94	0.68
18:b:16:ASP:HB3	18:b:645:ILE:HD13	1.75	0.68
18:b:831:ASN:ND2	18:b:833:ALA:H	1.92	0.68
24:h:7:LEU:HD21	24:h:110:LYS:CD	2.24	0.68
1:F:151:PRO:HG3	7:V:71:LEU:HB3	1.75	0.68
17:a:68:LYS:O	17:a:69:CYS:C	2.37	0.68
17:a:236:ARG:CA	17:a:239:TRP:CE3	2.77	0.68
17:a:338:LYS:HG2	17:a:339:GLU:H	1.58	0.68
17:a:803:ARG:O	17:a:804:GLY:C	2.37	0.68
17:a:861:THR:CG2	17:a:863:ARG:HE	2.07	0.68
17:a:1170:LYS:HD2	17:a:1170:LYS:N	2.08	0.68
18:b:194:GLU:HB2	18:b:469:LEU:HB2	1.76	0.68
18:b:320:ILE:O	18:b:320:ILE:CG2	2.42	0.68
20:d:58:THR:HB	20:d:62:PHE:CD2	2.25	0.68
20:d:86:HIS:O	20:d:87:LYS:C	2.36	0.68
24:h:7:LEU:HD21	24:h:110:LYS:HD3	1.75	0.68
24:h:80:VAL:HG22	24:h:95:VAL:HG22	1.76	0.68
24:h:114:LEU:O	24:h:116:LEU:HD12	1.93	0.68
17:a:6:PHE:CE2	17:a:78:ASP:OD2	2.46	0.67
17:a:57:ASP:O	17:a:58:PRO:C	2.35	0.67
17:a:605:ASN:HD22	17:a:605:ASN:N	1.90	0.67
17:a:1146:LEU:CG	17:a:1274:LEU:HA	2.24	0.67
17:a:1259:MET:O	17:a:1260:ILE:HG23	1.94	0.67
17:a:1490:PRO:HG3	23:g:53:ASN:HD22	1.59	0.67
18:b:287:ILE:HG12	18:b:368:ILE:CD1	2.24	0.67
18:b:417:TYR:CE1	18:b:421:CYS:SG	2.86	0.67
18:b:899:ILE:HD12	18:b:899:ILE:C	2.19	0.67
18:b:1205:PHE:CD2	18:b:1210:LYS:CB	2.77	0.67
25:i:69:PRO:CB	25:i:85:PHE:CZ	2.77	0.67
4:R:145:ILE:HB	4:R:157:HIS:HB2	1.75	0.67
8:N:265:ILE:HA	8:N:268:LYS:HD2	1.76	0.67
17:a:177:ALA:HB3	17:a:178:ALA:O	1.93	0.67
17:a:432:LEU:HD23	17:a:436:TRP:HZ2	1.56	0.67
17:a:573:LYS:CB	17:a:574:PRO:CD	2.66	0.67
17:a:827:ARG:HH11	17:a:827:ARG:CB	2.06	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1028:LYS:HB2	17:a:1028:LYS:NZ	2.09	0.67
17:a:1194:TRP:CZ2	17:a:1262:GLU:HG3	2.29	0.67
17:a:1283:PRO:O	17:a:1284:ASN:CB	2.41	0.67
17:a:1450:TYR:CD1	23:g:61:ARG:CA	2.78	0.67
18:b:102:GLN:HG2	18:b:105:ARG:NH2	2.09	0.67
18:b:847:THR:HG22	18:b:956:ARG:HB2	1.75	0.67
18:b:993:GLN:H	18:b:994:GLY:HA2	1.58	0.67
18:b:995:ILE:HG22	26:j:42:ARG:HD2	1.76	0.67
21:e:54:ARG:O	21:e:55:THR:CB	2.42	0.67
22:f:76:THR:HG23	22:f:79:GLU:OE2	1.95	0.67
23:g:59:LYS:HG3	23:g:60:GLY:HA2	1.75	0.67
23:g:126:ALA:O	23:g:127:ASN:C	2.37	0.67
25:i:81:HIS:ND1	25:i:82:GLU:N	2.41	0.67
8:N:378:ASP:H	8:N:381:HIS:HD2	1.40	0.67
8:N:525:ASN:HB2	8:N:546:THR:HB	1.75	0.67
17:a:155:SER:CB	17:a:169:ASN:CA	2.72	0.67
17:a:208:LEU:H	17:a:208:LEU:HD12	1.50	0.67
17:a:1127:ILE:HB	17:a:1133:LEU:HD22	1.76	0.67
17:a:1252:LYS:O	17:a:1253:ALA:CB	2.42	0.67
18:b:1080:TYR:N	18:b:1080:TYR:CD1	2.60	0.67
18:b:1148:ARG:HD2	18:b:1181:GLN:NE2	2.09	0.67
20:d:25:LEU:CD1	23:g:5:LEU:CB	2.61	0.67
25:i:94:ASP:O	25:i:96:MET:SD	2.52	0.67
26:j:47:ARG:O	26:j:51:THR:HG22	1.93	0.67
8:N:300:GLU:OE1	17:a:1471:SER:CB	2.42	0.67
17:a:343:ARG:NE	17:a:1409:GLU:OE1	2.27	0.67
24:h:7:LEU:HG	24:h:59:ILE:CD1	2.24	0.67
25:i:39:ALA:C	25:i:40:THR:HG23	2.20	0.67
25:i:69:PRO:CG	25:i:85:PHE:CE1	2.76	0.67
1:F:52:LEU:HD13	1:F:69:GLN:HG3	1.74	0.67
1:F:202:PHE:HZ	8:N:276:ASN:HB2	1.60	0.67
8:N:175:ILE:HG22	8:N:177:THR:H	1.60	0.67
17:a:101:ILE:CD1	17:a:217:PHE:CE2	2.72	0.67
17:a:266:ASP:HA	17:a:267:ASP:CG	2.19	0.67
17:a:1449:ILE:H	17:a:1449:ILE:HD12	1.59	0.67
18:b:216:PRO:HB2	18:b:217:SER:CA	2.22	0.67
18:b:629:ASN:HB3	18:b:630:PRO:C	2.20	0.67
20:d:67:ARG:O	20:d:68:PHE:CG	2.47	0.67
23:g:47:ILE:HD12	23:g:78:VAL:CG1	2.22	0.67
25:i:67:THR:O	25:i:67:THR:CG2	2.41	0.67
4:R:2:GLN:HB2	4:R:173:VAL:HB	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:N:491:ALA:N	8:N:504:SER:OG	2.27	0.67
17:a:90:LYS:O	17:a:91:PRO:C	2.37	0.67
17:a:879:LEU:HD12	17:a:960:PRO:HG3	1.76	0.67
17:a:1172:PHE:O	17:a:1176:PHE:HD2	1.78	0.67
17:a:1397:ARG:O	17:a:1398:ALA:CB	2.41	0.67
20:d:117:ASP:O	20:d:118:GLN:C	2.38	0.67
23:g:31:LEU:HD22	23:g:73:VAL:HG11	1.77	0.67
25:i:25:LEU:HD12	25:i:38:ALA:HB1	1.76	0.67
14:I:97:GLU:O	14:I:101:THR:N	2.27	0.67
17:a:966:ILE:O	17:a:970:ALA:HB2	1.94	0.67
18:b:234:ARG:HH21	18:b:408:ARG:NH2	1.92	0.67
18:b:417:TYR:CZ	18:b:421:CYS:SG	2.87	0.67
18:b:941:VAL:HG12	18:b:955:VAL:HG13	1.75	0.67
23:g:93:THR:O	23:g:140:LYS:HE3	1.95	0.67
23:g:101:PHE:CE1	23:g:110:PHE:HD1	2.12	0.67
25:i:112:GLU:O	25:i:113:GLN:C	2.37	0.67
8:N:192:THR:H	8:N:194:PRO:HG3	1.55	0.67
8:N:437:LEU:H	8:N:450:LEU:HD11	1.59	0.67
17:a:189:LEU:O	17:a:190:TRP:HD1	1.78	0.67
17:a:429:ASP:C	17:a:430:ILE:CD1	2.63	0.67
17:a:651:PHE:CZ	17:a:655:ILE:CD1	2.78	0.67
17:a:849:LYS:O	17:a:1408:PHE:HE2	1.77	0.67
17:a:1388:MET:HE1	17:a:1395:ILE:HD13	1.77	0.67
17:a:1450:TYR:HE2	22:f:125:ARG:CG	2.08	0.67
17:a:1484:THR:N	17:a:1485:PRO:CD	2.58	0.67
17:a:1485:PRO:CD	20:d:43:ARG:NH1	2.57	0.67
18:b:1205:PHE:CD2	18:b:1210:LYS:HA	2.30	0.67
1:F:48:ASN:N	1:F:76:ILE:O	2.18	0.67
3:Q:102:GLN:O	3:Q:106:LYS:N	2.25	0.67
3:Q:283:TRP:HA	3:Q:390:ASN:HD21	1.58	0.67
4:R:146:PRO:HA	4:R:156:PHE:HD1	1.59	0.67
5:T:182:PHE:HA	5:T:185:ARG:HB3	1.75	0.67
8:N:218:ILE:HG22	8:N:219:VAL:O	1.94	0.67
17:a:507:ILE:CA	17:a:511:THR:HG23	2.23	0.67
17:a:778:GLY:O	17:a:1092:VAL:HG22	1.94	0.67
17:a:1282:VAL:O	17:a:1283:PRO:C	2.37	0.67
18:b:54:SER:HA	18:b:79:PHE:HD2	1.59	0.67
18:b:773:ASN:HB3	26:j:62:TYR:CZ	2.30	0.67
18:b:777:ARG:HD3	18:b:779:ASP:OD2	1.93	0.67
18:b:778:MET:SD	18:b:778:MET:C	2.78	0.67
20:d:99:GLU:CG	20:d:124:LEU:HD11	2.18	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:49:PRO:O	4:R:51:GLN:N	2.27	0.67
8:N:256:LYS:HG3	8:N:258:ILE:HG13	1.75	0.67
12:3:41:TYR:CB	12:3:46:ALA:HB1	2.25	0.67
17:a:11:VAL:O	17:a:12:PRO:C	2.36	0.67
17:a:37:ILE:HD13	17:a:247:VAL:HG21	1.76	0.67
17:a:208:LEU:HD22	17:a:209:SER:N	2.05	0.67
17:a:433:ARG:N	17:a:436:TRP:CE2	2.62	0.67
17:a:1125:PRO:HB3	17:a:1128:ALA:CA	2.24	0.67
17:a:1291:MET:HA	17:a:1291:MET:HE3	1.77	0.67
20:d:14:LYS:O	20:d:15:LEU:HG	1.95	0.67
20:d:58:THR:C	20:d:62:PHE:CD2	2.73	0.67
21:e:57:LEU:O	21:e:58:SER:CB	2.43	0.67
24:h:12:THR:O	24:h:29:ALA:HA	1.95	0.67
17:a:17:GLU:OE1	18:b:1207:LYS:CA	2.42	0.66
17:a:71:THR:CG2	17:a:72:CYS:SG	2.71	0.66
17:a:88:LEU:HG	17:a:243:THR:O	1.96	0.66
17:a:236:ARG:HB3	17:a:238:ASP:OD1	1.95	0.66
17:a:571:ILE:CG1	17:a:573:LYS:HE3	2.15	0.66
17:a:581:LYS:HB3	17:a:618:ILE:CD1	2.22	0.66
17:a:672:ILE:O	17:a:675:THR:N	2.25	0.66
17:a:877:ASP:HB2	17:a:1372:ARG:HH22	1.60	0.66
17:a:1259:MET:O	17:a:1260:ILE:HG12	1.94	0.66
18:b:402:LEU:HD22	18:b:452:TRP:CE3	2.30	0.66
18:b:562:ASN:ND2	18:b:608:LYS:HG2	2.09	0.66
20:d:84:ARG:HG3	20:d:85:PHE:H	1.59	0.66
24:h:80:VAL:CA	24:h:95:VAL:HG22	2.23	0.66
25:i:58:VAL:O	25:i:58:VAL:HG13	1.95	0.66
26:j:10:CYS:HG	26:j:44:CYS:HG	1.43	0.66
27:k:64:HIS:HD2	27:k:66:LEU:HB2	1.60	0.66
17:a:666:ASN:OD1	18:b:1071:VAL:HG21	1.94	0.66
18:b:16:ASP:O	18:b:19:THR:HG22	1.96	0.66
18:b:888:ILE:HD11	18:b:938:VAL:HG21	1.78	0.66
20:d:84:ARG:O	20:d:85:PHE:HB2	1.95	0.66
8:N:415:LEU:N	8:N:422:ASN:O	2.29	0.66
17:a:62:THR:OG1	17:a:69:CYS:HB3	1.94	0.66
17:a:83:PHE:CE2	18:b:1196:MET:HB3	2.31	0.66
17:a:115:LEU:HD21	17:a:227:HIS:CB	2.26	0.66
17:a:839:GLU:HA	17:a:842:TYR:HD2	1.60	0.66
17:a:1328:VAL:H	17:a:1329:ASP:HA	1.59	0.66
17:a:1348:GLU:HG2	21:e:207:ARG:HH12	1.58	0.66
17:a:1485:PRO:C	17:a:1486:TYR:HD1	2.03	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:328:GLY:O	18:b:329:VAL:HG12	1.96	0.66
18:b:816:ILE:CG1	18:b:1001:ILE:HD11	2.24	0.66
18:b:869:SER:C	18:b:870:THR:HG22	2.18	0.66
23:g:101:PHE:CD1	23:g:110:PHE:HD1	2.14	0.66
2:H:183:ASN:O	2:H:187:MET:N	2.24	0.66
17:a:9:SER:O	17:a:10:SER:C	2.38	0.66
17:a:433:ARG:NH1	17:a:435:GLY:HA3	2.11	0.66
17:a:507:ILE:O	17:a:507:ILE:HG12	1.93	0.66
17:a:788:ARG:NH2	17:a:791:PRO:HA	2.10	0.66
17:a:1064:GLY:C	17:a:1443:GLY:HA2	2.21	0.66
17:a:1089:TYR:CD1	17:a:1089:TYR:C	2.73	0.66
17:a:1131:MET:HE3	17:a:1135:LYS:HE3	1.76	0.66
17:a:1402:ALA:O	17:a:1403:LEU:C	2.38	0.66
17:a:1433:ASN:ND2	17:a:1441:PRO:HD3	2.10	0.66
18:b:401:SER:HA	18:b:404:ARG:NH1	2.10	0.66
18:b:1185:PRO:HB2	18:b:1187:ALA:HB3	1.77	0.66
4:R:91:GLU:O	4:R:93:LYS:N	2.27	0.66
17:a:71:THR:CG2	18:b:1160:ILE:HG23	2.18	0.66
17:a:83:PHE:HZ	18:b:1193:GLN:O	1.78	0.66
17:a:194:LYS:CG	17:a:195:ARG:N	2.58	0.66
17:a:1288:VAL:HG12	17:a:1289:TYR:N	2.10	0.66
17:a:1459:TYR:HD1	17:a:1460:SER:N	1.94	0.66
18:b:212:LYS:NZ	18:b:381:PRO:CG	2.57	0.66
18:b:263:ARG:HB2	18:b:322:LYS:O	1.95	0.66
18:b:402:LEU:HD13	18:b:452:TRP:CZ3	2.31	0.66
18:b:713:ALA:O	18:b:714:GLN:CG	2.44	0.66
18:b:874:MET:CG	18:b:879:TYR:OH	2.44	0.66
20:d:98:CYS:HA	20:d:99:GLU:CB	2.24	0.66
23:g:84:ARG:HA	23:g:148:ILE:HG22	1.78	0.66
3:Q:138:ILE:HG12	3:Q:151:PRO:HB3	1.78	0.66
5:T:119:SER:CB	19:c:89:ASN:HD22	1.99	0.66
8:N:202:THR:HG21	8:N:218:ILE:HD12	1.76	0.66
17:a:221:SER:HB2	17:a:224:ASP:OD2	1.96	0.66
17:a:349:LYS:NZ	18:b:1187:ALA:CB	2.59	0.66
17:a:947:LYS:CB	17:a:948:PHE:HA	2.26	0.66
18:b:215:ALA:O	18:b:217:SER:CB	2.44	0.66
18:b:700:MET:C	18:b:702:ALA:H	2.03	0.66
19:c:234:GLU:OE2	26:j:12:LYS:HE2	1.95	0.66
25:i:20:LYS:O	25:i:21:VAL:C	2.39	0.66
1:F:34:LEU:HA	1:F:37:PHE:HB3	1.78	0.66
3:Q:212:LYS:HG2	7:V:82:LEU:HD22	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:155:SER:HB2	17:a:169:ASN:CB	2.24	0.66
17:a:288:GLU:HB3	17:a:290:ALA:H	1.61	0.66
17:a:457:HIS:CD2	17:a:1077:GLU:OE2	2.49	0.66
17:a:1137:VAL:HA	17:a:1140:GLN:HB2	1.78	0.66
17:a:1450:TYR:CE2	22:f:125:ARG:HG3	2.31	0.66
18:b:28:THR:O	18:b:32:ARG:HB2	1.95	0.66
19:c:168:HIS:CD2	19:c:170:LYS:H	2.14	0.66
23:g:104:ILE:HD12	23:g:109:VAL:HG21	1.76	0.66
25:i:65:ASP:HB3	25:i:68:LEU:HD12	1.77	0.66
4:R:78:TRP:HB2	4:R:104:LEU:HD11	1.76	0.66
17:a:177:ALA:CB	17:a:179:GLN:HE21	2.01	0.66
18:b:510:PRO:HG3	18:b:739:GLY:N	2.11	0.66
18:b:660:GLU:O	18:b:661:GLN:HB2	1.94	0.66
21:e:14:ALA:HA	21:e:17:THR:CG2	2.24	0.66
25:i:65:ASP:OD2	25:i:68:LEU:CD1	2.43	0.66
2:H:133:LYS:NZ	6:K:49:ASN:OD1	2.22	0.66
3:Q:141:ILE:HD11	3:Q:146:LYS:HB2	1.77	0.66
5:T:27:ARG:HB2	5:T:104:GLU:HG3	1.76	0.66
5:T:38:VAL:HG13	5:T:51:LYS:HD3	1.77	0.66
17:a:194:LYS:HG3	17:a:195:ARG:N	2.10	0.66
17:a:646:GLU:C	17:a:648:CYS:H	2.04	0.66
17:a:859:ASP:OD1	17:a:861:THR:HB	1.96	0.66
17:a:868:ASP:OD2	17:a:1384:ARG:NH1	2.26	0.66
18:b:278:VAL:H	18:b:279:PRO:HD2	1.61	0.66
23:g:39:CYS:O	23:g:156:THR:HB	1.95	0.66
23:g:151:THR:CB	23:g:160:ALA:HB2	2.25	0.66
17:a:148:MET:C	17:a:149:VAL:HG23	2.19	0.66
17:a:183:ARG:CZ	17:a:203:PRO:CB	2.73	0.66
17:a:198:ASP:O	17:a:199:GLU:CB	2.42	0.66
17:a:558:TRP:CZ3	27:k:61:LYS:HG2	2.29	0.66
17:a:670:ILE:HG13	17:a:670:ILE:O	1.95	0.66
17:a:1211:SER:O	17:a:1215:VAL:HG23	1.96	0.66
17:a:1289:TYR:O	17:a:1312:LEU:HA	1.96	0.66
18:b:497:PRO:O	18:b:498:ARG:C	2.37	0.66
20:d:98:CYS:HB3	20:d:99:GLU:CD	2.20	0.66
21:e:5:GLU:HB3	21:e:8:ILE:HD13	1.77	0.66
21:e:130:PHE:CE1	21:e:181:ARG:HB3	2.31	0.66
21:e:198:GLU:CB	21:e:199:THR:HA	2.10	0.66
23:g:94:THR:OG1	23:g:101:PHE:HB2	1.96	0.66
8:N:177:THR:HG22	8:N:179:PHE:HB2	1.77	0.65
17:a:1149:VAL:O	17:a:1150:THR:C	2.38	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1342:LEU:HD23	17:a:1350:THR:HG21	1.78	0.65
18:b:211:PHE:CZ	18:b:384:ARG:NH1	2.64	0.65
18:b:212:LYS:HZ2	18:b:381:PRO:CG	2.05	0.65
19:c:130:LEU:CD2	19:c:132:HIS:HD2	2.07	0.65
25:i:20:LYS:HD2	25:i:21:VAL:HG23	1.76	0.65
4:R:41:PRO:HD2	4:R:55:TRP:HA	1.78	0.65
5:T:94:GLN:CD	19:c:89:ASN:HB2	2.11	0.65
8:N:189:CYS:SG	8:N:197:PHE:HD2	2.19	0.65
17:a:195:ARG:HB3	17:a:196:GLY:CA	2.23	0.65
17:a:678:ASP:HB3	17:a:681:THR:OG1	1.96	0.65
17:a:946:CYS:HB2	17:a:949:ILE:CG1	2.26	0.65
17:a:1275:GLU:O	17:a:1276:SER:HB3	1.96	0.65
20:d:26:THR:O	20:d:30:ALA:CB	2.43	0.65
21:e:116:LYS:C	21:e:118:ILE:H	2.04	0.65
23:g:6:LYS:HG2	23:g:7:GLU:N	2.11	0.65
23:g:46:ILE:CG1	23:g:79:LEU:CD2	2.74	0.65
27:k:38:ASP:HB3	27:k:70:PHE:HD2	1.61	0.65
4:R:24:LYS:HB3	6:K:94:ARG:HH22	1.59	0.65
4:R:60:SER:HB2	4:R:78:TRP:CD2	2.31	0.65
5:T:68:VAL:HG13	5:T:72:THR:H	1.62	0.65
17:a:153:GLY:HA2	17:a:174:GLY:CA	2.27	0.65
17:a:368:ASP:OD2	17:a:649:LYS:HE3	1.95	0.65
17:a:810:TYR:C	18:b:750:HIS:HD2	2.04	0.65
17:a:816:PRO:O	17:a:818:GLU:N	2.29	0.65
17:a:1064:GLY:HA3	17:a:1065:GLU:HB2	1.79	0.65
17:a:1459:TYR:CE2	22:f:98:LEU:HD22	2.31	0.65
17:a:1493:ASP:OD1	20:d:33:LEU:CD2	2.43	0.65
18:b:287:ILE:CD1	18:b:368:ILE:CD1	2.74	0.65
20:d:24:MET:HE1	20:d:88:PHE:CE1	2.30	0.65
22:f:96:PRO:CG	23:g:19:PHE:HB2	2.21	0.65
5:T:69:ASP:N	5:T:72:THR:OG1	2.27	0.65
17:a:524:LYS:HD2	17:a:632:GLN:HA	1.78	0.65
18:b:576:HIS:HD2	18:b:577:ARG:O	1.78	0.65
18:b:657:ILE:HD12	18:b:657:ILE:N	2.11	0.65
18:b:753:SER:HB3	18:b:754:PRO:CD	2.22	0.65
18:b:1176:ARG:C	18:b:1179:PHE:HE2	2.05	0.65
20:d:42:ALA:O	20:d:44:GLU:N	2.30	0.65
23:g:151:THR:CG2	23:g:160:ALA:HB2	2.26	0.65
25:i:58:VAL:C	25:i:60:HIS:H	2.03	0.65
25:i:71:SER:HG	25:i:83:ALA:HB3	1.62	0.65
17:a:60:LEU:O	17:a:82:HIS:HD2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:268:LEU:O	17:a:270:HIS:N	2.30	0.65
17:a:331:ILE:HD13	18:b:1198:MET:SD	2.37	0.65
17:a:386:VAL:HG21	17:a:436:TRP:CD1	2.31	0.65
17:a:646:GLU:H	17:a:648:CYS:N	1.93	0.65
17:a:1192:SER:CA	17:a:1245:ILE:O	2.43	0.65
17:a:1320:THR:CG2	17:a:1321:GLU:H	2.10	0.65
18:b:317:LEU:HB3	18:b:335:LEU:HD23	1.77	0.65
18:b:345:GLU:O	18:b:348:PRO:HD3	1.96	0.65
18:b:486:THR:H	18:b:487:PRO:CD	2.08	0.65
19:c:9:ILE:HD11	27:k:111:LYS:CG	2.25	0.65
19:c:33:ARG:NE	19:c:179:PHE:CG	2.65	0.65
20:d:99:GLU:HG3	20:d:124:LEU:CD1	2.21	0.65
24:h:39:THR:CG2	24:h:103:ALA:HB3	2.25	0.65
8:N:195:ASN:HB2	8:N:224:PHE:HB2	1.79	0.65
8:N:362:TRP:HZ3	8:N:367:ILE:HB	1.62	0.65
17:a:6:PHE:O	17:a:7:SER:C	2.39	0.65
17:a:433:ARG:HB3	17:a:436:TRP:CD2	2.31	0.65
17:a:556:MET:HE2	17:a:567:PRO:HD3	1.78	0.65
17:a:558:TRP:O	17:a:559:VAL:CG1	2.40	0.65
17:a:775:ILE:HG13	17:a:1089:TYR:CG	2.31	0.65
17:a:816:PRO:C	17:a:818:GLU:H	2.03	0.65
17:a:879:LEU:HD13	17:a:960:PRO:HG3	1.78	0.65
17:a:1104:LEU:HD12	17:a:1104:LEU:O	1.96	0.65
17:a:1119:LEU:N	17:a:1314:THR:CG2	2.57	0.65
17:a:1183:GLU:O	17:a:1184:VAL:C	2.38	0.65
17:a:1395:ILE:O	17:a:1395:ILE:CG1	2.45	0.65
18:b:662:ARG:O	18:b:664:GLY:N	2.30	0.65
18:b:871:THR:O	18:b:872:LEU:CD2	2.45	0.65
20:d:32:ILE:HD13	20:d:74:THR:HG21	1.69	0.65
20:d:64:VAL:O	20:d:64:VAL:HG12	1.96	0.65
21:e:118:ILE:C	21:e:120:THR:H	2.04	0.65
22:f:95:ALA:HB1	22:f:96:PRO:HD2	1.78	0.65
24:h:36:MET:HA	24:h:36:MET:CE	2.26	0.65
25:i:53:VAL:O	25:i:55:ASN:N	2.29	0.65
26:j:42:ARG:HB3	26:j:44:CYS:CB	2.26	0.65
27:k:46:ALA:C	27:k:48:GLN:H	2.04	0.65
3:Q:168:ASP:HA	7:V:46:LYS:HD2	1.79	0.65
17:a:43:MET:SD	17:a:45:GLU:HB2	2.37	0.65
17:a:69:CYS:O	17:a:69:CYS:SG	2.54	0.65
17:a:77:ALA:O	17:a:79:CYS:N	2.30	0.65
17:a:425:LYS:HZ3	17:a:430:ILE:HG13	1.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:556:MET:HE3	17:a:562:TRP:CE2	2.32	0.65
17:a:870:ILE:HD12	17:a:870:ILE:C	2.21	0.65
17:a:1451:LEU:HD21	23:g:62:VAL:HG21	1.79	0.65
18:b:43:GLN:HB2	18:b:44:ASN:HA	1.77	0.65
18:b:376:LEU:O	18:b:376:LEU:HD23	1.97	0.65
18:b:497:PRO:O	18:b:499:GLN:N	2.30	0.65
18:b:1185:PRO:C	18:b:1187:ALA:N	2.53	0.65
19:c:127:ASN:O	19:c:128:SER:C	2.38	0.65
19:c:218:GLU:HB3	19:c:219:PRO:O	1.97	0.65
24:h:83:VAL:HG22	24:h:93:VAL:HG22	1.79	0.65
7:V:108:THR:O	7:V:112:ASN:N	2.28	0.65
17:a:135:ASN:O	17:a:137:LEU:N	2.30	0.65
17:a:154:LEU:H	17:a:173:GLY:HA2	1.62	0.65
17:a:156:ALA:O	17:a:157:GLY:C	2.38	0.65
17:a:208:LEU:H	17:a:208:LEU:HD13	1.60	0.65
17:a:362:ASP:OD2	17:a:365:LEU:CG	2.32	0.65
17:a:512:MET:O	17:a:514:PRO:N	2.30	0.65
17:a:948:PHE:O	17:a:950:PHE:N	2.30	0.65
17:a:1124:MET:HG2	17:a:1327:GLY:O	1.97	0.65
18:b:315:ILE:O	18:b:318:ASP:HB2	1.97	0.65
18:b:1163:TYR:CD1	18:b:1163:TYR:O	2.50	0.65
19:c:36:VAL:O	19:c:174:THR:HG21	1.97	0.65
20:d:53:ASP:OD1	20:d:54:VAL:N	2.30	0.65
23:g:43:TYR:HB3	23:g:79:LEU:HD13	1.78	0.65
23:g:164:MET:CE	23:g:170:GLY:N	2.59	0.65
24:h:7:LEU:HD13	24:h:57:LEU:HD11	1.79	0.65
24:h:59:ILE:HD12	24:h:113:ARG:HH12	1.62	0.65
8:N:407:PHE:HB2	8:N:416:LYS:NZ	2.12	0.65
17:a:33:SER:CB	17:a:85:HIS:H	2.09	0.65
17:a:108:VAL:HG11	17:a:113:GLY:CA	2.25	0.65
17:a:177:ALA:CB	17:a:179:GLN:CG	2.62	0.65
17:a:269:THR:O	17:a:271:LYS:N	2.30	0.65
17:a:366:SER:HA	17:a:653:ASN:OD1	1.97	0.65
17:a:433:ARG:HB3	17:a:436:TRP:CG	2.31	0.65
17:a:1191:GLN:O	17:a:1192:SER:CB	2.44	0.65
17:a:1484:THR:N	17:a:1485:PRO:HD3	2.11	0.65
18:b:273:ARG:NH1	18:b:310:ILE:HD12	2.12	0.65
22:f:104:GLU:HG3	22:f:105:THR:H	1.61	0.65
25:i:71:SER:OG	25:i:83:ALA:HB3	1.97	0.65
8:N:192:THR:H	8:N:194:PRO:CD	2.07	0.65
17:a:95:ILE:O	17:a:98:LEU:CB	2.41	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:166:PRO:HB2	17:a:168:ALA:HB2	1.78	0.65
17:a:822:HIS:NE2	18:b:752:GLN:O	2.30	0.65
17:a:1125:PRO:HB3	17:a:1128:ALA:HA	1.79	0.65
17:a:1195:LEU:CD2	17:a:1242:ARG:CZ	2.75	0.65
17:a:1255:ASP:O	17:a:1256:ASP:CB	2.32	0.65
18:b:280:ASP:O	18:b:282:ASP:N	2.30	0.65
18:b:581:HIS:O	18:b:585:THR:HG22	1.97	0.65
18:b:759:GLN:HG2	18:b:972:ARG:HA	1.79	0.65
21:e:58:SER:HB3	21:e:76:PHE:H	1.62	0.65
23:g:144:VAL:CG1	23:g:164:MET:HE1	2.26	0.65
25:i:81:HIS:CG	25:i:82:GLU:N	2.65	0.65
25:i:101:TYR:HB2	25:i:110:PHE:CZ	2.30	0.65
5:T:93:ARG:CD	19:c:91:ASP:CA	2.70	0.64
17:a:394:LEU:O	17:a:394:LEU:HD23	1.97	0.64
17:a:773:GLN:HA	17:a:805:PHE:HA	1.78	0.64
17:a:836:LYS:HE3	17:a:1080:THR:HB	1.80	0.64
17:a:1118:SER:O	17:a:1119:LEU:HB3	1.96	0.64
18:b:42:VAL:N	18:b:43:GLN:C	2.55	0.64
18:b:486:THR:N	18:b:487:PRO:HD3	2.09	0.64
18:b:1026:LEU:CB	18:b:1051:HIS:HD2	2.06	0.64
19:c:45:ILE:HD11	19:c:66:LEU:HB3	1.79	0.64
25:i:75:CYS:O	25:i:76:PRO:C	2.40	0.64
4:R:91:GLU:C	4:R:93:LYS:H	2.04	0.64
5:T:94:GLN:NE2	19:c:89:ASN:HB3	2.08	0.64
17:a:120:SER:OG	17:a:121:ASN:ND2	2.30	0.64
17:a:428:GLY:O	17:a:430:ILE:CD1	2.37	0.64
17:a:478:LEU:HD13	18:b:824:GLN:NE2	2.12	0.64
17:a:584:LEU:O	17:a:584:LEU:HD23	1.96	0.64
17:a:835:VAL:O	17:a:837:THR:N	2.30	0.64
17:a:874:TYR:HB3	17:a:1061:VAL:HG11	1.78	0.64
17:a:1282:VAL:CG1	17:a:1285:ILE:HG13	2.27	0.64
17:a:1402:ALA:O	17:a:1404:MET:N	2.30	0.64
18:b:625:ILE:HD11	18:b:672:GLY:O	1.98	0.64
18:b:777:ARG:HG2	18:b:779:ASP:HB2	1.78	0.64
20:d:96:LEU:C	20:d:97:CYS:HG	2.01	0.64
23:g:61:ARG:HG2	23:g:61:ARG:O	1.94	0.64
23:g:96:ASN:O	23:g:98:MET:N	2.30	0.64
25:i:3:ASN:N	25:i:3:ASN:ND2	2.40	0.64
25:i:99:LEU:C	25:i:99:LEU:HD23	2.22	0.64
8:N:206:GLN:NE2	9:D:92:UNK:O	2.30	0.64
17:a:6:PHE:O	17:a:8:PRO:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:25:SER:HB3	17:a:239:TRP:NE1	2.11	0.64
17:a:159:ASP:O	17:a:161:PHE:CD1	2.50	0.64
17:a:165:ASN:CB	17:a:166:PRO:CA	2.33	0.64
17:a:192:SER:CB	17:a:202:LEU:CA	2.75	0.64
17:a:321:LEU:CB	17:a:325:GLY:HA2	2.20	0.64
17:a:605:ASN:N	17:a:606:PRO:HA	2.10	0.64
17:a:1083:THR:CG2	17:a:1084:LEU:H	2.09	0.64
18:b:35:LEU:H	18:b:158:MET:HE1	1.62	0.64
18:b:89:MET:HE2	18:b:90:THR:H	1.60	0.64
18:b:900:ILE:HD13	18:b:900:ILE:N	2.11	0.64
18:b:1054:GLN:HG2	19:c:202:TRP:CZ3	2.32	0.64
24:h:38:LEU:HD22	24:h:39:THR:H	1.62	0.64
25:i:69:PRO:HB2	25:i:85:PHE:CE2	2.33	0.64
4:R:84:GLY:HA3	4:R:98:PRO:HG2	1.80	0.64
8:N:481:LEU:O	8:N:485:GLN:NE2	2.30	0.64
17:a:65:ARG:O	17:a:67:PHE:N	2.30	0.64
17:a:1062:SER:HB2	17:a:1063:PRO:C	2.22	0.64
17:a:1177:PHE:C	17:a:1180:PRO:HD2	2.23	0.64
17:a:1253:ALA:CB	17:a:1254:GLU:HA	2.23	0.64
17:a:1295:ILE:HG21	17:a:1309:GLU:HG2	1.79	0.64
18:b:207:ILE:HD12	18:b:207:ILE:O	1.96	0.64
18:b:273:ARG:NH1	18:b:310:ILE:CD1	2.60	0.64
18:b:457:ARG:O	18:b:459:MET:N	2.30	0.64
18:b:888:ILE:CD1	18:b:938:VAL:HG21	2.27	0.64
20:d:57:LYS:CD	23:g:106:PRO:HA	2.26	0.64
21:e:199:THR:N	21:e:200:SER:C	2.48	0.64
24:h:33:GLN:C	24:h:35:ASP:H	2.06	0.64
25:i:79:HIS:CD2	25:i:80:GLN:HE21	2.13	0.64
17:a:37:ILE:CD1	17:a:247:VAL:HG21	2.28	0.64
17:a:180:PRO:HG3	17:a:193:TRP:CD1	2.32	0.64
17:a:231:ASN:HD22	17:a:234:TYR:H	1.46	0.64
17:a:778:GLY:HA3	17:a:1091:GLY:C	2.21	0.64
17:a:1119:LEU:CA	17:a:1314:THR:HG22	2.27	0.64
18:b:440:THR:HG23	18:b:441:ASN:H	1.62	0.64
18:b:465:VAL:O	18:b:465:VAL:HG12	1.95	0.64
18:b:1206:THR:OG1	18:b:1207:LYS:N	2.30	0.64
19:c:48:VAL:HG12	19:c:158:CYS:SG	2.37	0.64
19:c:87:THR:HG21	19:c:161:LYS:CD	2.26	0.64
25:i:8:ILE:CG2	25:i:9:GLU:N	2.61	0.64
3:Q:334:LEU:HA	3:Q:342:VAL:HG13	1.80	0.64
4:R:140:ILE:HA	4:R:167:LEU:HA	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:89:LEU:HB3	5:T:90:TRP:CD1	2.32	0.64
17:a:8:PRO:C	17:a:9:SER:HG	2.06	0.64
17:a:213:VAL:CG1	17:a:217:PHE:CE2	2.81	0.64
17:a:1083:THR:CG2	17:a:1084:LEU:N	2.61	0.64
17:a:1101:VAL:O	17:a:1103:ARG:N	2.30	0.64
17:a:1103:ARG:O	17:a:1106:GLU:N	2.30	0.64
17:a:1170:LYS:HD2	17:a:1170:LYS:H	1.61	0.64
18:b:200:GLN:NE2	18:b:465:VAL:HG21	2.11	0.64
18:b:259:LEU:HD22	18:b:346:LEU:HD11	1.80	0.64
18:b:565:LYS:HB2	18:b:572:TRP:NE1	2.12	0.64
18:b:641:ARG:H	18:b:644:HIS:CD2	2.13	0.64
18:b:658:ASP:O	18:b:661:GLN:N	2.30	0.64
20:d:68:PHE:HB3	20:d:73:ALA:HB3	1.80	0.64
26:j:44:CYS:SG	26:j:45:CYS:N	2.69	0.64
8:N:156:GLN:HA	8:N:159:HIS:HD2	1.62	0.64
17:a:66:GLN:O	17:a:67:PHE:CD2	2.50	0.64
17:a:106:GLU:CB	17:a:144:CYS:HB3	2.26	0.64
17:a:117:ILE:CG2	17:a:118:ASP:H	2.11	0.64
17:a:215:THR:O	17:a:219:HIS:CD2	2.51	0.64
17:a:916:TYR:O	17:a:918:GLU:N	2.30	0.64
18:b:243:LEU:C	18:b:244:MET:CG	2.70	0.64
18:b:772:THR:HG23	26:j:62:TYR:OH	1.98	0.64
18:b:1207:LYS:O	18:b:1209:HIS:N	2.30	0.64
21:e:198:GLU:HB2	21:e:199:THR:CA	2.25	0.64
23:g:35:VAL:CG1	23:g:46:ILE:HG21	2.21	0.64
26:j:43:TYR:HB3	26:j:44:CYS:HA	1.75	0.64
2:H:133:LYS:HG3	6:K:45:ILE:HG22	1.79	0.64
8:N:195:ASN:HA	8:N:225:HIS:H	1.63	0.64
17:a:57:ASP:O	17:a:59:ARG:N	2.30	0.64
17:a:242:ILE:HD13	17:a:245:LEU:HD13	1.78	0.64
17:a:255:SER:O	17:a:256:ILE:CB	2.41	0.64
17:a:328:LEU:C	17:a:328:LEU:HD22	2.22	0.64
17:a:474:PHE:CE1	17:a:495:MET:HE2	2.33	0.64
17:a:484:TYR:O	17:a:485:ASN:C	2.39	0.64
17:a:778:GLY:CA	17:a:1091:GLY:O	2.45	0.64
18:b:281:ARG:CG	25:i:6:TYR:CE2	2.79	0.64
20:d:70:THR:OG1	20:d:73:ALA:CB	2.45	0.64
23:g:130:ASN:CB	23:g:139:GLU:HG3	2.24	0.64
28:l:21:ILE:HD12	28:l:32:THR:HB	1.80	0.64
5:T:94:GLN:HB2	19:c:89:ASN:C	2.23	0.64
8:N:427:LYS:HA	8:N:434:ARG:NE	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:269:THR:OG1	17:a:270:HIS:N	2.30	0.64
17:a:806:ILE:HD13	17:a:814:LEU:CD2	2.27	0.64
17:a:827:ARG:HG3	17:a:827:ARG:NH1	2.12	0.64
17:a:846:ARG:NH1	17:a:1392:ARG:H	1.95	0.64
17:a:1450:TYR:CE2	22:f:125:ARG:CD	2.81	0.64
18:b:686:MET:O	18:b:728:THR:HG22	1.98	0.64
27:k:118:VAL:CG2	27:k:119:GLU:N	2.36	0.64
1:f:92:GLN:HA	1:f:107:VAL:HA	1.78	0.64
3:Q:237:ILE:HB	3:Q:309:ASP:HB3	1.80	0.64
5:T:115:VAL:HG21	5:T:125:LEU:HG	1.80	0.64
17:a:724:VAL:HA	17:a:727:ILE:HG12	1.80	0.64
17:a:1016:ASN:HA	17:a:1019:LEU:HB2	1.80	0.64
17:a:1140:GLN:C	17:a:1280:ARG:HB3	2.22	0.64
17:a:1391:THR:O	17:a:1393:HIS:N	2.31	0.64
18:b:1002:ASN:HD21	18:b:1004:HIS:HB2	1.62	0.64
18:b:1022:LYS:NZ	18:b:1057:GLY:O	2.31	0.64
18:b:1206:THR:CG2	18:b:1209:HIS:HB2	2.27	0.64
19:c:47:LEU:HD11	28:l:59:GLN:HE22	1.63	0.64
19:c:137:ASP:OD2	19:c:140:SER:HB3	1.98	0.64
1:f:206:LEU:HD22	8:N:265:ILE:HG23	1.78	0.63
1:f:211:GLU:O	1:f:215:VAL:N	2.31	0.63
17:a:59:ARG:H	17:a:60:LEU:CA	2.10	0.63
17:a:236:ARG:O	17:a:239:TRP:N	2.30	0.63
17:a:1450:TYR:CB	23:g:60:GLY:O	2.45	0.63
18:b:165:ILE:HG22	18:b:165:ILE:O	1.97	0.63
18:b:485:ASN:HB3	18:b:487:PRO:HD3	1.80	0.63
18:b:1148:ARG:HD2	18:b:1181:GLN:HE21	1.63	0.63
26:j:12:LYS:HE3	26:j:42:ARG:NH2	2.13	0.63
8:N:202:THR:OG1	8:N:218:ILE:HD11	1.98	0.63
17:a:85:HIS:ND1	17:a:244:VAL:HG13	2.13	0.63
17:a:117:ILE:HD13	17:a:143:VAL:HG11	1.80	0.63
17:a:357:THR:HG22	17:a:474:PHE:CD2	2.34	0.63
17:a:385:THR:HG23	17:a:437:ARG:CG	2.28	0.63
17:a:567:PRO:O	17:a:578:TRP:HZ3	1.80	0.63
17:a:783:PHE:CE2	17:a:803:ARG:NH1	2.67	0.63
18:b:200:GLN:OE1	18:b:487:PRO:CG	2.46	0.63
18:b:244:MET:HG2	18:b:254:THR:O	1.98	0.63
19:c:17:VAL:HG12	19:c:17:VAL:O	1.98	0.63
19:c:108:LYS:HA	19:c:153:GLU:HG2	1.80	0.63
21:e:76:PHE:CD1	21:e:105:ILE:HG12	2.33	0.63
22:f:69:ARG:HD3	22:f:136:TRP:CH2	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:g:100:PHE:O	23:g:111:VAL:HG12	1.98	0.63
23:g:138:ILE:HD11	23:g:171:VAL:HG23	1.79	0.63
17:a:592:ILE:HG21	17:a:639:ILE:CG2	2.27	0.63
17:a:852:GLU:HB3	17:a:1430:ILE:HD11	1.80	0.63
17:a:1094:SER:O	17:a:1095:LYS:CD	2.46	0.63
17:a:1154:GLU:HG2	25:i:45:ARG:HG3	1.80	0.63
18:b:102:GLN:HB3	18:b:105:ARG:CD	2.28	0.63
18:b:552:LEU:HD23	18:b:553:GLU:HG3	1.81	0.63
18:b:663:PHE:CG	18:b:663:PHE:O	2.51	0.63
20:d:117:ASP:O	20:d:120:LEU:N	2.30	0.63
23:g:12:ILE:HD11	23:g:31:LEU:HB2	1.80	0.63
23:g:63:VAL:HG11	23:g:66:GLN:HB2	1.80	0.63
23:g:155:ALA:O	23:g:157:GLU:N	2.30	0.63
17:a:77:ALA:HB2	18:b:1105:ARG:NH2	2.09	0.63
17:a:115:LEU:CD1	17:a:115:LEU:H	2.11	0.63
17:a:178:ALA:O	17:a:179:GLN:HG3	1.98	0.63
17:a:195:ARG:CG	17:a:196:GLY:CA	2.76	0.63
17:a:310:MET:HE1	18:b:1198:MET:HG2	1.81	0.63
17:a:368:ASP:CG	17:a:649:LYS:CE	2.62	0.63
17:a:559:VAL:N	17:a:560:PRO:HA	2.12	0.63
17:a:1071:ALA:HB1	17:a:1373:HIS:HB3	1.81	0.63
17:a:1165:VAL:C	17:a:1166:ILE:HG23	2.21	0.63
17:a:1433:ASN:HD22	17:a:1441:PRO:HD3	1.64	0.63
18:b:199:ALA:HB3	18:b:484:THR:CB	2.28	0.63
18:b:317:LEU:HD21	18:b:339:HIS:CE1	2.33	0.63
23:g:62:VAL:HG22	23:g:69:ALA:HB2	1.81	0.63
23:g:93:THR:O	23:g:140:LYS:CG	2.43	0.63
17:a:5:GLN:O	17:a:8:PRO:CG	2.47	0.63
17:a:64:ASP:O	17:a:67:PHE:HD1	1.82	0.63
17:a:775:ILE:O	17:a:776:VAL:CG1	2.30	0.63
18:b:38:PHE:CD2	18:b:158:MET:HE2	2.33	0.63
18:b:307:ALA:HB1	18:b:310:ILE:CG1	2.29	0.63
18:b:507:MET:HG3	18:b:619:ILE:HD12	1.81	0.63
18:b:651:ASP:HA	18:b:654:ARG:HG3	1.80	0.63
19:c:73:SER:HB2	19:c:239:ILE:CG2	2.29	0.63
6:K:106:ASP:O	6:K:109:SER:OG	2.14	0.63
8:N:884:UNK:O	8:N:888:UNK:N	2.31	0.63
17:a:38:GLU:O	17:a:40:PRO:CD	2.42	0.63
17:a:123:LYS:HG3	17:a:124:PHE:H	1.64	0.63
17:a:433:ARG:HB2	17:a:436:TRP:CD2	2.32	0.63
17:a:778:GLY:CA	17:a:1092:VAL:HG23	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:g:3:PHE:CD1	23:g:80:TRP:HD1	2.17	0.63
25:i:69:PRO:HG3	25:i:85:PHE:CE1	2.34	0.63
2:H:17:ARG:NH2	3:Q:140:THR:OG1	2.32	0.63
2:H:177:ARG:NE	6:K:83:GLU:OE2	2.31	0.63
8:N:193:VAL:N	8:N:194:PRO:CD	2.40	0.63
17:a:142:ASN:O	17:a:146:THR:HG23	1.97	0.63
17:a:257:SER:C	17:a:259:ASP:H	2.07	0.63
17:a:342:LEU:O	17:a:347:MET:HG2	1.99	0.63
17:a:402:PRO:HA	17:a:441:HIS:HE1	1.64	0.63
17:a:816:PRO:HG3	18:b:1036:PHE:CD2	2.33	0.63
17:a:949:ILE:HG13	17:a:950:PHE:CD1	2.30	0.63
18:b:232:GLY:O	18:b:233:SER:CB	2.46	0.63
25:i:8:ILE:CG2	25:i:9:GLU:H	2.12	0.63
1:F:15:GLN:OE1	1:F:17:ARG:NH1	2.30	0.63
17:a:71:THR:HG23	18:b:1160:ILE:HG22	1.79	0.63
17:a:451:ASN:HA	17:a:460:SER:O	1.98	0.63
17:a:1071:ALA:HB1	17:a:1373:HIS:CB	2.28	0.63
17:a:1348:GLU:HG2	21:e:207:ARG:NH1	2.13	0.63
18:b:296:MET:O	18:b:372:LEU:HD13	1.97	0.63
18:b:300:MET:O	18:b:303:CYS:N	2.32	0.63
18:b:759:GLN:O	18:b:763:GLY:N	2.30	0.63
19:c:242:ASN:HA	19:c:244:ILE:N	2.13	0.63
20:d:22:GLU:OE2	23:g:4:PHE:HB3	1.98	0.63
20:d:85:PHE:CE1	20:d:114:LYS:HB3	2.26	0.63
21:e:47:GLY:O	21:e:48:MET:C	2.40	0.63
22:f:98:LEU:HD12	22:f:121:PRO:HD3	1.80	0.63
24:h:111:LEU:C	24:h:113:ARG:N	2.56	0.63
3:Q:415:MET:HB3	3:Q:502:HIS:CE1	2.32	0.63
6:K:16:SER:H	6:K:19:GLN:HB2	1.64	0.63
17:a:15:ARG:HH11	17:a:1438:GLN:HE21	1.40	0.63
17:a:72:CYS:CB	18:b:1161:ALA:O	2.44	0.63
17:a:383:PRO:O	17:a:384:GLU:CB	2.47	0.63
17:a:1165:VAL:O	17:a:1166:ILE:HD13	1.99	0.63
17:a:1395:ILE:HD11	17:a:1397:ARG:CG	2.29	0.63
17:a:1431:SER:HA	17:a:1434:ILE:CG1	2.29	0.63
17:a:1450:TYR:O	17:a:1451:LEU:HG	1.99	0.63
17:a:1490:PRO:O	17:a:1492:VAL:N	2.32	0.63
18:b:430:LEU:O	18:b:432:LEU:N	2.30	0.63
18:b:664:GLY:O	18:b:665:TRP:HB3	1.96	0.63
18:b:1170:CYS:SG	18:b:1179:PHE:HE1	2.22	0.63
20:d:43:ARG:O	20:d:44:GLU:HB2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:i:99:LEU:HD23	25:i:100:ILE:N	2.13	0.63
4:R:106:ASN:OD1	4:R:107:GLY:N	2.30	0.62
17:a:24:LEU:HB2	18:b:1199:ASN:CA	2.29	0.62
17:a:30:ARG:NE	17:a:244:VAL:HG21	2.14	0.62
17:a:56:LEU:HD12	17:a:56:LEU:O	1.98	0.62
17:a:104:ILE:HG23	17:a:107:CYS:HB2	1.81	0.62
17:a:165:ASN:HB3	17:a:166:PRO:HA	0.69	0.62
17:a:169:ASN:C	17:a:169:ASN:HD22	2.06	0.62
17:a:176:GLY:O	17:a:177:ALA:CB	2.47	0.62
17:a:388:PRO:HG3	17:a:434:TYR:HE1	1.63	0.62
17:a:885:GLU:OE2	17:a:962:ASN:HB2	1.98	0.62
17:a:993:LEU:O	17:a:996:LEU:N	2.32	0.62
17:a:1320:THR:C	17:a:1322:ALA:H	2.06	0.62
17:a:1458:ASN:O	17:a:1459:TYR:C	2.42	0.62
18:b:488:ILE:HB	18:b:490:ARG:N	2.14	0.62
18:b:576:HIS:CD2	18:b:577:ARG:N	2.67	0.62
18:b:1080:TYR:HD1	18:b:1080:TYR:N	1.91	0.62
19:c:137:ASP:OD2	19:c:140:SER:CB	2.46	0.62
19:c:182:ASP:C	19:c:182:ASP:OD1	2.41	0.62
20:d:68:PHE:O	20:d:70:THR:N	2.31	0.62
4:R:59:CYS:HB3	4:R:79:SER:HB2	1.80	0.62
5:T:36:LYS:HG3	5:T:95:SER:HB3	1.79	0.62
17:a:111:ASN:CG	17:a:216:ILE:HG12	2.23	0.62
17:a:126:ASP:HB3	17:a:130:TYR:CE2	2.35	0.62
17:a:810:TYR:C	18:b:750:HIS:CD2	2.77	0.62
17:a:1160:ASP:OD1	25:i:23:ARG:CD	2.47	0.62
18:b:820:SER:OG	18:b:821:GLY:N	2.31	0.62
23:g:82:PRO:HG3	23:g:107:LEU:HD22	1.80	0.62
24:h:74:TYR:OH	24:h:76:MET:SD	2.48	0.62
24:h:108:HIS:HA	24:h:111:LEU:HB2	1.80	0.62
17:a:40:PRO:HB3	17:a:276:ILE:HB	1.79	0.62
17:a:107:CYS:O	17:a:108:VAL:HG23	1.99	0.62
17:a:180:PRO:CB	17:a:193:TRP:CD1	2.82	0.62
17:a:266:ASP:N	17:a:266:ASP:OD1	2.30	0.62
17:a:271:LYS:CE	17:a:328:LEU:HD12	2.28	0.62
17:a:413:ARG:HD2	17:a:419:ILE:CD1	2.29	0.62
17:a:445:GLY:HA2	17:a:446:ASP:C	2.22	0.62
17:a:816:PRO:CB	18:b:689:MET:HE1	2.28	0.62
17:a:1279:LEU:O	17:a:1281:GLY:N	2.30	0.62
17:a:1403:LEU:HD23	17:a:1432:GLU:HG3	1.76	0.62
17:a:1461:LEU:HD12	17:a:1461:LEU:H	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:87:PRO:HA	18:b:113:SER:HB3	1.81	0.62
18:b:298:GLU:O	18:b:300:MET:N	2.32	0.62
18:b:328:GLY:O	18:b:329:VAL:CG1	2.47	0.62
18:b:839:LEU:HB3	18:b:840:PHE:HD1	1.64	0.62
23:g:63:VAL:HG23	23:g:68:PHE:O	1.98	0.62
23:g:90:ALA:O	23:g:143:ASN:HB3	1.99	0.62
23:g:100:PHE:CB	23:g:111:VAL:HG12	2.10	0.62
23:g:135:ASP:O	23:g:137:VAL:HG23	1.98	0.62
24:h:113:ARG:O	24:h:115:SER:N	2.31	0.62
5:T:144:GLN:HA	5:T:147:PHE:HD2	1.64	0.62
8:N:199:VAL:CG1	8:N:217:TRP:CB	2.62	0.62
10:G:58:SER:HA	12:3:5:TRP:H	1.64	0.62
17:a:148:MET:C	17:a:179:GLN:HA	2.25	0.62
17:a:413:ARG:HD2	17:a:419:ILE:HD11	1.80	0.62
17:a:874:TYR:HB2	17:a:878:GLY:HA2	1.81	0.62
17:a:971:LEU:HD11	17:a:1038:TYR:HB2	1.81	0.62
17:a:1166:ILE:HD12	17:a:1169:ASP:O	1.99	0.62
18:b:24:PHE:CZ	18:b:28:THR:HG21	2.34	0.62
18:b:229:LEU:HD11	18:b:231:ARG:HH21	1.58	0.62
18:b:426:ARG:C	18:b:428:PHE:H	2.07	0.62
18:b:752:GLN:O	18:b:753:SER:CB	2.46	0.62
18:b:986:GLU:HB2	19:c:34:ARG:HH21	1.64	0.62
20:d:27:VAL:CG2	20:d:95:THR:CG2	2.61	0.62
25:i:6:TYR:O	25:i:14:LEU:HD11	1.99	0.62
3:Q:441:PHE:HD1	3:Q:523:LEU:HD21	1.64	0.62
8:N:166:ARG:NH2	11:U:126:GLU:O	2.31	0.62
17:a:36:LYS:O	17:a:37:ILE:CB	2.47	0.62
17:a:57:ASP:C	17:a:59:ARG:C	2.67	0.62
17:a:168:ALA:O	17:a:169:ASN:HB3	1.99	0.62
17:a:217:PHE:HA	17:a:220:ILE:HG13	1.82	0.62
17:a:388:PRO:CA	17:a:434:TYR:CE1	2.83	0.62
17:a:411:ILE:HD12	17:a:425:LYS:HZ2	1.64	0.62
17:a:458:LYS:HE2	18:b:1130:HIS:HD2	1.63	0.62
17:a:581:LYS:NZ	17:a:621:GLY:O	2.20	0.62
17:a:678:ASP:O	17:a:682:MET:HB2	1.99	0.62
17:a:873:ALA:HB3	17:a:876:GLU:H	1.65	0.62
17:a:1028:LYS:HB2	17:a:1028:LYS:HZ3	1.64	0.62
17:a:1450:TYR:O	17:a:1451:LEU:CG	2.47	0.62
18:b:262:ILE:HD13	18:b:262:ILE:N	2.13	0.62
18:b:349:HIS:O	18:b:350:ILE:HB	2.00	0.62
18:b:398:LEU:O	18:b:402:LEU:HG	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:c:168:HIS:CD2	19:c:170:LYS:CB	2.82	0.62
19:c:222:PHE:CD2	24:h:46:ILE:HG22	2.34	0.62
23:g:116:VAL:CG1	23:g:117:PRO:CD	2.66	0.62
3:Q:244:ILE:HA	3:Q:255:VAL:HG22	1.82	0.62
4:R:11:PRO:HD2	4:R:14:ARG:HD3	1.81	0.62
4:R:65:HIS:CE1	4:R:69:ASP:HB3	2.35	0.62
8:N:189:CYS:HB2	8:N:197:PHE:HD2	1.65	0.62
8:N:378:ASP:H	8:N:381:HIS:CD2	2.16	0.62
17:a:87:GLU:O	17:a:88:LEU:CG	2.47	0.62
17:a:221:SER:O	17:a:224:ASP:HB2	1.99	0.62
17:a:341:ARG:O	17:a:343:ARG:N	2.33	0.62
17:a:517:ILE:CD1	17:a:640:TRP:NE1	2.55	0.62
17:a:881:ALA:HB2	17:a:1372:ARG:HD2	1.80	0.62
17:a:1075:ILE:C	17:a:1078:PRO:HD2	2.24	0.62
17:a:1430:ILE:HD12	17:a:1431:SER:N	2.15	0.62
17:a:1450:TYR:CE1	23:g:61:ARG:HB2	2.33	0.62
18:b:204:ALA:O	18:b:205:ALA:HB3	1.98	0.62
18:b:222:VAL:HG12	18:b:223:ALA:N	2.15	0.62
18:b:741:LEU:O	18:b:741:LEU:HD23	1.99	0.62
24:h:74:TYR:HE1	24:h:76:MET:HG3	1.61	0.62
4:R:196:LEU:O	4:R:200:CYS:N	2.32	0.62
17:a:526:VAL:O	17:a:526:VAL:HG12	1.98	0.62
17:a:645:PRO:C	17:a:648:CYS:HB3	2.24	0.62
17:a:691:GLU:O	17:a:691:GLU:HG2	1.99	0.62
17:a:785:PHE:CD1	17:a:785:PHE:N	2.60	0.62
17:a:812:ARG:CB	17:a:813:GLY:HA2	2.25	0.62
17:a:1403:LEU:CD2	17:a:1432:GLU:CG	2.44	0.62
18:b:229:LEU:CD1	18:b:231:ARG:NE	2.62	0.62
18:b:376:LEU:HD22	18:b:378:ARG:HG3	1.80	0.62
18:b:685:VAL:HG12	18:b:728:THR:HG21	1.82	0.62
18:b:867:VAL:O	18:b:871:THR:HG23	1.99	0.62
18:b:1006:ILE:HB	18:b:1007:PRO:HD3	1.81	0.62
21:e:23:HIS:N	21:e:24:ASP:HB2	2.15	0.62
25:i:59:SER:O	25:i:61:ASP:N	2.32	0.62
26:j:49:ILE:HD12	26:j:50:LEU:H	1.65	0.62
1:F:56:SER:HA	1:F:60:ALA:HA	1.82	0.62
6:K:24:ILE:HD11	6:K:75:GLN:HG3	1.81	0.62
8:N:338:SER:HA	8:N:341:GLU:HB3	1.80	0.62
8:N:342:ARG:HA	8:N:345:SER:HB2	1.80	0.62
17:a:311:ASP:CB	17:a:314:ILE:CG1	2.78	0.62
18:b:180:CYS:O	18:b:182:TYR:N	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:854:LYS:HZ2	18:b:950:LEU:HD11	1.65	0.62
21:e:27:TYR:HD2	21:e:63:PRO:HG3	1.57	0.62
8:N:291:LEU:HD12	8:N:429:ASN:HD22	1.64	0.62
13:2:113:ASN:N	13:2:125:HIS:O	2.33	0.62
17:a:16:VAL:HG22	18:b:1182:VAL:HG21	1.80	0.62
17:a:95:ILE:HG21	17:a:314:ILE:HD13	1.75	0.62
17:a:342:LEU:HD23	17:a:1411:THR:OG1	2.00	0.62
17:a:712:PRO:O	17:a:714:MET:N	2.30	0.62
17:a:946:CYS:HA	17:a:949:ILE:HG12	1.81	0.62
17:a:1403:LEU:HB3	17:a:1432:GLU:HG3	1.82	0.62
18:b:713:ALA:O	18:b:714:GLN:HG2	1.99	0.62
21:e:199:THR:HG22	21:e:200:SER:C	2.25	0.62
1:F:128:ARG:NH1	3:Q:118:GLU:O	2.33	0.62
2:H:114:TYR:O	2:H:117:SER:OG	2.15	0.62
3:Q:311:TRP:HZ2	3:Q:332:GLU:HA	1.64	0.62
5:T:17:PHE:HE1	19:c:264:ASP:CB	2.13	0.62
8:N:263:TYR:HA	8:N:266:LEU:HD12	1.81	0.62
17:a:231:ASN:C	17:a:233:GLN:H	2.07	0.62
17:a:792:HIS:CB	17:a:817:GLN:HE21	2.13	0.62
17:a:945:LEU:HD23	17:a:945:LEU:C	2.25	0.62
17:a:947:LYS:HB2	17:a:948:PHE:HA	1.82	0.62
17:a:1458:ASN:O	17:a:1459:TYR:O	2.18	0.62
17:a:1490:PRO:O	17:a:1493:ASP:N	2.30	0.62
18:b:391:ARG:HG2	18:b:618:ARG:HH21	1.64	0.62
19:c:33:ARG:HH21	19:c:179:PHE:HB2	1.65	0.62
23:g:32:LEU:HD22	23:g:36:GLU:OE2	2.00	0.62
25:i:99:LEU:HD23	25:i:100:ILE:O	2.00	0.62
13:2:115:LYS:O	13:2:123:PRO:N	2.33	0.61
15:S:71:UNK:N	16:J:55:UNK:O	2.33	0.61
17:a:40:PRO:CA	17:a:276:ILE:CG2	2.77	0.61
17:a:84:GLY:O	17:a:247:VAL:HG23	1.99	0.61
17:a:728:LEU:HD22	17:a:805:PHE:HE2	1.64	0.61
17:a:807:GLU:OE1	18:b:716:VAL:HG11	2.00	0.61
17:a:889:PHE:HZ	17:a:1020:LEU:CD2	2.12	0.61
17:a:919:ASN:O	17:a:920:SER:HB3	1.99	0.61
17:a:946:CYS:O	17:a:946:CYS:SG	2.58	0.61
17:a:1487:GLU:OE2	20:d:43:ARG:HG3	2.00	0.61
18:b:753:SER:CB	18:b:754:PRO:CD	2.77	0.61
19:c:207:ASN:ND2	19:c:230:TYR:HB3	2.15	0.61
21:e:77:ALA:HB3	21:e:78:LYS:HA	1.80	0.61
21:e:91:VAL:HA	21:e:94:LEU:HD12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:g:114:HIS:CD2	23:g:115:LEU:HD23	2.35	0.61
25:i:81:HIS:CG	25:i:82:GLU:H	2.18	0.61
8:N:257:PRO:HB2	8:N:258:ILE:HA	1.81	0.61
12:3:42:PHE:H	12:3:46:ALA:HB3	1.65	0.61
17:a:43:MET:O	17:a:43:MET:CG	2.47	0.61
17:a:108:VAL:O	17:a:109:CYS:SG	2.59	0.61
17:a:1164:THR:CG2	17:a:1242:ARG:HH22	2.12	0.61
17:a:1363:GLU:O	17:a:1365:ASP:HA	2.00	0.61
19:c:42:THR:HG22	19:c:171:TRP:HB3	1.82	0.61
19:c:79:PRO:HB3	19:c:80:PRO:HA	1.82	0.61
20:d:7:GLU:HG3	20:d:15:LEU:CD2	2.30	0.61
20:d:24:MET:CE	20:d:88:PHE:CD1	2.83	0.61
23:g:138:ILE:CG1	23:g:171:VAL:CG2	2.78	0.61
27:k:52:ASP:O	27:k:55:VAL:HG23	1.99	0.61
5:T:32:GLN:N	5:T:98:ILE:O	2.28	0.61
8:N:192:THR:O	8:N:194:PRO:HD2	1.99	0.61
8:N:242:LEU:O	8:N:246:GLU:HG2	2.00	0.61
17:a:195:ARG:HG3	17:a:196:GLY:N	2.14	0.61
17:a:213:VAL:CG1	17:a:217:PHE:CZ	2.83	0.61
17:a:405:HIS:CG	17:a:406:PRO:HD3	2.35	0.61
17:a:432:LEU:C	17:a:436:TRP:CZ2	2.77	0.61
17:a:1425:ASP:HB3	17:a:1432:GLU:OE1	2.00	0.61
18:b:681:GLU:O	18:b:685:VAL:HG23	2.00	0.61
18:b:1153:ASP:HB3	18:b:1209:HIS:O	2.00	0.61
21:e:5:GLU:HB3	21:e:8:ILE:CD1	2.29	0.61
25:i:6:TYR:HA	25:i:12:ASN:O	2.00	0.61
2:H:198:GLY:HA3	4:R:122:HIS:CG	2.35	0.61
3:Q:444:TRP:CD1	3:Q:527:CYS:HG	2.18	0.61
8:N:168:ARG:HH21	8:N:215:PHE:H	1.49	0.61
8:N:407:PHE:HB2	8:N:416:LYS:HZ2	1.65	0.61
17:a:605:ASN:CG	24:h:26:ARG:HH22	2.08	0.61
18:b:42:VAL:H	18:b:43:GLN:C	2.08	0.61
18:b:99:MET:HA	18:b:99:MET:HE3	1.82	0.61
18:b:624:PHE:O	18:b:729:HIS:HB3	2.00	0.61
20:d:25:LEU:HD12	23:g:5:LEU:CB	2.26	0.61
20:d:57:LYS:CB	23:g:105:GLY:O	2.34	0.61
24:h:110:LYS:HD2	24:h:113:ARG:HH21	1.63	0.61
25:i:24:VAL:HG12	25:i:25:LEU:N	2.14	0.61
25:i:55:ASN:O	25:i:56:THR:C	2.42	0.61
2:H:134:ASP:HA	2:H:137:TRP:HD1	1.64	0.61
3:Q:51:LEU:O	3:Q:55:ASP:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:314:LEU:HD22	3:Q:424:ILE:HG21	1.82	0.61
4:R:4:LEU:HG	4:R:96:ILE:HG12	1.82	0.61
4:R:10:VAL:HB	4:R:165:TRP:HB2	1.82	0.61
17:a:64:ASP:CA	17:a:67:PHE:CE1	2.83	0.61
17:a:123:LYS:HG3	17:a:124:PHE:N	2.15	0.61
17:a:169:ASN:O	17:a:170:MET:CG	2.48	0.61
17:a:256:ILE:O	17:a:263:ARG:HG2	2.01	0.61
17:a:357:THR:HG23	17:a:358:VAL:N	2.15	0.61
17:a:806:ILE:HD11	17:a:814:LEU:HD21	1.82	0.61
17:a:1357:GLU:O	17:a:1361:VAL:HG23	2.01	0.61
17:a:1406:CYS:HB3	17:a:1411:THR:HG22	1.82	0.61
17:a:1496:PHE:CD2	20:d:29:GLU:HG2	2.36	0.61
18:b:24:PHE:HD2	18:b:665:TRP:CZ2	2.18	0.61
18:b:207:ILE:HA	18:b:208:VAL:CB	2.28	0.61
18:b:273:ARG:NH1	18:b:310:ILE:CG1	2.64	0.61
18:b:301:LYS:HB2	18:b:302:PRO:HD3	1.82	0.61
18:b:1205:PHE:CD2	18:b:1210:LYS:HB2	2.35	0.61
23:g:3:PHE:CZ	23:g:80:TRP:CD1	2.89	0.61
2:H:41:SER:HB3	2:H:46:ILE:HD11	1.82	0.61
4:R:56:LEU:HD12	4:R:82:LEU:HD21	1.81	0.61
5:T:36:LYS:HE2	5:T:185:ARG:CZ	2.30	0.61
17:a:42:THR:HG21	17:a:55:LEU:HB2	1.74	0.61
17:a:254:PRO:HB3	18:b:1103:LEU:CD2	2.27	0.61
17:a:354:SER:OG	18:b:1117:LEU:HB2	2.00	0.61
17:a:388:PRO:HA	17:a:434:TYR:CZ	2.35	0.61
17:a:641:LYS:HE3	17:a:885:GLU:OE1	2.01	0.61
17:a:672:ILE:HG12	18:b:1015:LEU:HB3	1.83	0.61
17:a:816:PRO:C	17:a:818:GLU:N	2.59	0.61
17:a:835:VAL:C	17:a:837:THR:H	2.09	0.61
17:a:1123:LEU:HB3	17:a:1127:ILE:O	2.00	0.61
17:a:1127:ILE:HB	17:a:1128:ALA:HB2	1.83	0.61
17:a:1480:GLU:CG	20:d:44:GLU:HG2	2.30	0.61
18:b:292:ASN:H	18:b:293:ASP:CB	2.11	0.61
18:b:562:ASN:HA	18:b:563:ALA:O	2.01	0.61
18:b:654:ARG:CA	18:b:655:TYR:O	2.44	0.61
18:b:1205:PHE:HE2	18:b:1210:LYS:O	1.82	0.61
21:e:22:VAL:O	21:e:25:ARG:HB2	2.00	0.61
25:i:51:SER:O	25:i:52:ASN:CG	2.44	0.61
25:i:97:MET:O	25:i:99:LEU:N	2.30	0.61
4:R:136:THR:HB	4:R:189:LEU:HD21	1.83	0.61
12:3:41:TYR:HA	12:3:46:ALA:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:107:CYS:O	17:a:108:VAL:CG2	2.49	0.61
17:a:151:ASP:CG	17:a:152:THR:N	2.58	0.61
17:a:254:PRO:HG2	17:a:266:ASP:CB	2.31	0.61
17:a:843:ILE:HD13	17:a:843:ILE:C	2.25	0.61
17:a:1282:VAL:CG1	17:a:1285:ILE:CG1	2.78	0.61
18:b:512:GLU:O	18:b:512:GLU:CG	2.48	0.61
18:b:530:TYR:HB3	18:b:620:CYS:HB2	1.82	0.61
19:c:84:LEU:O	19:c:84:LEU:CD2	2.35	0.61
23:g:54:THR:HB	23:g:76:ARG:HD2	1.82	0.61
2:H:132:GLN:HA	2:H:135:GLN:HB3	1.82	0.61
3:Q:218:LEU:HD23	3:Q:229:VAL:HG22	1.82	0.61
17:a:59:ARG:N	17:a:60:LEU:CA	2.62	0.61
17:a:256:ILE:HG23	17:a:257:SER:N	2.16	0.61
17:a:312:ASN:HD21	17:a:330:SER:H	1.47	0.61
17:a:338:LYS:HG2	17:a:339:GLU:N	2.16	0.61
17:a:948:PHE:C	17:a:950:PHE:N	2.59	0.61
18:b:435:LYS:O	18:b:438:ILE:HD12	2.01	0.61
18:b:658:ASP:C	18:b:660:GLU:HB2	2.26	0.61
19:c:168:HIS:C	19:c:170:LYS:H	2.09	0.61
19:c:173:PRO:HB3	19:c:238:SER:OG	2.01	0.61
23:g:95:VAL:CG1	23:g:131:TYR:CD2	2.83	0.61
4:R:167:LEU:HD22	4:R:202:LEU:HD11	1.83	0.61
7:V:35:ILE:HA	7:V:38:ILE:HD12	1.83	0.61
17:a:1181:ASP:HA	17:a:1184:VAL:HG23	1.81	0.61
17:a:1191:GLN:O	17:a:1192:SER:HB3	2.01	0.61
17:a:1228:PHE:HE2	17:a:1246:ILE:CD1	2.13	0.61
17:a:1275:GLU:C	17:a:1277:ILE:HG23	2.26	0.61
17:a:1478:LEU:CD2	20:d:45:THR:O	2.47	0.61
17:a:1480:GLU:CD	20:d:44:GLU:CG	2.60	0.61
18:b:207:ILE:HB	18:b:209:GLN:HB2	1.81	0.61
18:b:273:ARG:CZ	18:b:310:ILE:CD1	2.78	0.61
18:b:379:ARG:CZ	18:b:607:GLU:HG2	2.31	0.61
18:b:538:ALA:C	18:b:540:ILE:H	2.08	0.61
18:b:705:GLU:OE1	18:b:707:LYS:CE	2.48	0.61
19:c:58:PRO:HD2	19:c:61:PHE:HB2	1.83	0.61
21:e:57:LEU:O	21:e:58:SER:HB3	2.00	0.61
23:g:151:THR:CG2	23:g:160:ALA:CB	2.78	0.61
17:a:51:ARG:O	17:a:52:VAL:CB	2.43	0.61
17:a:115:LEU:HD21	17:a:227:HIS:CG	2.35	0.61
17:a:116:LYS:H	17:a:116:LYS:CD	2.12	0.61
17:a:267:ASP:HB3	17:a:268:LEU:CB	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:342:LEU:HD11	17:a:1409:GLU:CG	2.31	0.61
17:a:452:ARG:HB2	17:a:493:MET:HE3	1.83	0.61
17:a:895:SER:HB3	17:a:898:GLN:HG2	1.82	0.61
23:g:51:ASP:C	23:g:55:ILE:HD11	2.26	0.61
25:i:58:VAL:C	25:i:60:HIS:N	2.58	0.61
4:R:78:TRP:CD1	4:R:109:VAL:HG11	2.36	0.60
8:N:189:CYS:SG	8:N:197:PHE:CD2	2.94	0.60
8:N:480:LEU:O	8:N:484:ALA:N	2.33	0.60
17:a:65:ARG:C	17:a:67:PHE:HD1	2.09	0.60
17:a:94:HIS:CA	17:a:98:LEU:HG	2.31	0.60
17:a:110:TRP:CZ2	17:a:180:PRO:HG2	2.36	0.60
17:a:152:THR:O	17:a:174:GLY:CA	2.50	0.60
17:a:328:LEU:O	17:a:329:LYS:C	2.43	0.60
17:a:661:TYR:HE2	27:k:61:LYS:HD3	1.66	0.60
17:a:820:PHE:CZ	18:b:500:LEU:HD11	2.35	0.60
17:a:1114:ILE:O	17:a:1114:ILE:HG12	2.00	0.60
17:a:1404:MET:SD	17:a:1432:GLU:HB2	2.41	0.60
17:a:1407:SER:O	17:a:1409:GLU:HG3	2.01	0.60
17:a:1472:GLY:O	17:a:1473:MET:CG	2.49	0.60
18:b:87:PRO:CG	18:b:157:ILE:HD12	2.25	0.60
18:b:215:ALA:O	18:b:216:PRO:C	2.43	0.60
28:l:55:LYS:HB2	28:l:56:ARG:CA	2.29	0.60
2:H:25:GLN:O	2:H:28:THR:OG1	2.12	0.60
5:T:83:ILE:HA	5:T:86:ARG:HD2	1.82	0.60
17:a:82:HIS:N	17:a:249:PRO:HB3	2.16	0.60
17:a:90:LYS:CE	17:a:299:GLU:HG2	2.27	0.60
17:a:100:LYS:HZ3	17:a:1420:ALA:HB1	1.66	0.60
17:a:740:GLU:CG	17:a:764:ILE:HD12	2.31	0.60
17:a:824:MET:HB3	18:b:500:LEU:HD12	1.83	0.60
17:a:905:ILE:N	17:a:905:ILE:CD1	2.64	0.60
17:a:1119:LEU:HD11	17:a:1121:ILE:HG13	1.83	0.60
17:a:1293:HIS:CD2	17:a:1311:VAL:HB	2.36	0.60
17:a:1405:ARG:HA	17:a:1408:PHE:CD1	2.35	0.60
17:a:1489:SER:OG	20:d:40:GLN:NE2	2.34	0.60
18:b:190:ILE:HG21	18:b:447:LEU:HD13	1.83	0.60
18:b:972:ARG:NH1	18:b:1080:TYR:HE2	1.99	0.60
18:b:1189:LYS:HE2	18:b:1193:GLN:NE2	2.16	0.60
24:h:41:ASP:HB2	24:h:100:LEU:HB3	1.83	0.60
1:F:44:SER:HB3	1:F:47:SER:HB3	1.83	0.60
5:T:30:PHE:C	5:T:100:GLY:O	2.44	0.60
6:K:27:LEU:HD12	6:K:30:LYS:HD3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:15:ARG:HD3	17:a:1438:GLN:NE2	2.11	0.60
17:a:60:LEU:O	17:a:82:HIS:CD2	2.55	0.60
17:a:159:ASP:OD1	17:a:159:ASP:N	2.34	0.60
17:a:312:ASN:HD21	17:a:330:SER:HB3	1.63	0.60
17:a:521:GLN:CG	17:a:1074:SER:HB2	2.08	0.60
17:a:541:SER:OG	17:a:622:VAL:HG13	2.01	0.60
17:a:640:TRP:O	17:a:644:GLY:CA	2.46	0.60
17:a:852:GLU:OE1	17:a:1430:ILE:HD11	2.00	0.60
17:a:1363:GLU:HA	17:a:1367:SER:HB2	1.83	0.60
17:a:1395:ILE:O	17:a:1397:ARG:N	2.33	0.60
17:a:1459:TYR:HE2	22:f:98:LEU:HD22	1.65	0.60
18:b:331:ARG:O	18:b:334:ARG:N	2.34	0.60
18:b:947:GLN:N	18:b:948:GLU:HB2	2.16	0.60
22:f:87:ARG:HG2	22:f:91:ILE:HD11	1.83	0.60
23:g:14:LEU:CD1	23:g:30:LYS:NZ	2.64	0.60
23:g:114:HIS:HD2	23:g:115:LEU:N	1.99	0.60
25:i:10:CYS:O	25:i:11:ASN:C	2.44	0.60
5:T:82:ASP:O	5:T:86:ARG:HG3	2.02	0.60
6:K:112:ILE:HG21	7:V:102:LYS:HB3	1.83	0.60
17:a:37:ILE:HD12	17:a:85:HIS:O	2.01	0.60
17:a:349:LYS:HZ1	18:b:1187:ALA:CB	2.14	0.60
17:a:388:PRO:CB	17:a:434:TYR:HE1	2.14	0.60
17:a:592:ILE:O	17:a:592:ILE:HG12	2.01	0.60
17:a:1009:ILE:HG22	21:e:162:ARG:HH21	1.67	0.60
17:a:1150:THR:O	17:a:1151:SER:HB3	2.00	0.60
18:b:767:MET:SD	18:b:1083:ARG:HD2	2.41	0.60
20:d:25:LEU:HD23	20:d:29:GLU:OE2	2.00	0.60
24:h:114:LEU:O	24:h:115:SER:C	2.43	0.60
26:j:7:CYS:HB3	26:j:45:CYS:HB3	1.77	0.60
2:H:6:THR:O	2:H:9:THR:OG1	2.14	0.60
3:Q:390:ASN:O	3:Q:394:HIS:ND1	2.25	0.60
17:a:155:SER:HA	17:a:169:ASN:CA	2.29	0.60
17:a:311:ASP:HB2	17:a:314:ILE:HD11	1.81	0.60
17:a:321:LEU:HD22	17:a:325:GLY:HA2	1.81	0.60
17:a:395:GLN:HG3	17:a:432:LEU:CD1	2.29	0.60
17:a:465:ARG:O	17:a:466:ILE:O	2.18	0.60
17:a:668:PHE:HE2	17:a:752:MET:HE2	1.64	0.60
17:a:806:ILE:HD11	17:a:814:LEU:CD2	2.30	0.60
18:b:56:LEU:HD22	18:b:77:ILE:HD12	1.83	0.60
18:b:658:ASP:HB3	18:b:659:PRO:CD	2.29	0.60
18:b:778:MET:SD	18:b:954:LYS:HD3	2.41	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:1055:SER:N	18:b:1056:ARG:HD3	2.15	0.60
21:e:151:LEU:HB2	21:e:190:VAL:O	2.01	0.60
25:i:97:MET:C	25:i:99:LEU:H	2.09	0.60
25:i:101:TYR:HB2	25:i:110:PHE:CE2	2.36	0.60
27:k:69:ASN:O	27:k:70:PHE:HB3	2.00	0.60
4:R:139:ARG:HE	4:R:141:TYR:HE1	1.50	0.60
5:T:8:TYR:HB3	5:T:156:LYS:HB3	1.82	0.60
17:a:40:PRO:CA	17:a:276:ILE:HG21	2.30	0.60
17:a:275:ILE:CG1	17:a:305:HIS:HB3	2.30	0.60
17:a:488:PHE:C	17:a:490:GLY:H	2.09	0.60
17:a:613:ILE:HG22	17:a:618:ILE:HG22	1.84	0.60
17:a:689:VAL:HG11	17:a:807:GLU:HG2	1.82	0.60
17:a:828:GLU:C	17:a:830:LEU:H	2.07	0.60
17:a:1119:LEU:HB3	17:a:1314:THR:CG2	2.24	0.60
17:a:1150:THR:HG21	25:i:48:LEU:CD2	2.30	0.60
17:a:1157:TYR:HE2	17:a:1194:TRP:CZ3	2.19	0.60
17:a:1248:ASP:OD1	17:a:1249:ASP:HA	2.02	0.60
18:b:307:ALA:O	18:b:310:ILE:CG1	2.49	0.60
18:b:540:ILE:HG13	18:b:541:ILE:N	2.16	0.60
18:b:663:PHE:HB2	18:b:667:ALA:HB3	1.82	0.60
21:e:76:PHE:HA	21:e:105:ILE:HG13	1.84	0.60
21:e:89:THR:HG23	21:e:90:PHE:CD1	2.36	0.60
23:g:145:ARG:C	23:g:146:LEU:HD12	2.27	0.60
23:g:146:LEU:HD12	23:g:164:MET:SD	2.39	0.60
1:F:47:SER:HA	1:F:76:ILE:HB	1.83	0.60
4:R:145:ILE:O	4:R:157:HIS:N	2.34	0.60
17:a:268:LEU:HD22	17:a:329:LYS:CB	2.31	0.60
17:a:1183:GLU:O	17:a:1186:GLU:N	2.35	0.60
17:a:1450:TYR:CD1	23:g:61:ARG:HA	2.37	0.60
17:a:1496:PHE:CD1	20:d:29:GLU:CG	2.84	0.60
18:b:247:ASN:C	18:b:249:GLU:H	2.10	0.60
18:b:331:ARG:O	18:b:332:GLU:C	2.43	0.60
18:b:565:LYS:HB2	18:b:572:TRP:HE1	1.67	0.60
20:d:22:GLU:OE2	23:g:5:LEU:C	2.44	0.60
23:g:10:LEU:CD2	23:g:31:LEU:HD12	2.21	0.60
3:Q:212:LYS:NZ	7:V:84:ASN:OD1	2.26	0.60
5:T:66:ALA:HB2	5:T:178:LEU:HD11	1.83	0.60
5:T:99:GLU:O	5:T:113:ALA:HA	2.01	0.60
8:N:399:ARG:CG	8:N:408:SER:OG	2.49	0.60
17:a:120:SER:N	17:a:122:PRO:CA	2.64	0.60
17:a:262:SER:O	17:a:263:ARG:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:514:PRO:O	17:a:517:ILE:HG12	2.01	0.60
17:a:635:LEU:HD23	17:a:635:LEU:O	2.01	0.60
17:a:1170:LYS:O	17:a:1172:PHE:N	2.29	0.60
17:a:1328:VAL:H	17:a:1329:ASP:CA	2.15	0.60
17:a:1490:PRO:HG3	23:g:53:ASN:ND2	2.17	0.60
18:b:216:PRO:CD	18:b:217:SER:HA	2.32	0.60
18:b:221:TYR:O	18:b:371:MET:HE1	2.02	0.60
18:b:281:ARG:CB	25:i:6:TYR:CE2	2.85	0.60
18:b:888:ILE:HD13	18:b:900:ILE:HG22	1.83	0.60
26:j:27:GLU:O	26:j:28:ASP:HB2	2.01	0.60
27:k:118:VAL:C	27:k:119:GLU:CG	2.74	0.60
3:Q:533:HIS:HD2	3:Q:537:LEU:HD22	1.67	0.60
4:R:81:TYR:OH	4:R:101:ARG:NH1	2.35	0.60
5:T:38:VAL:HG21	19:c:93:ASP:CG	2.24	0.60
17:a:524:LYS:HZ3	17:a:632:GLN:HB3	1.64	0.60
17:a:1329:ASP:O	17:a:1333:THR:HG23	2.02	0.60
18:b:284:LEU:HD11	18:b:300:MET:HE2	1.83	0.60
18:b:317:LEU:CB	18:b:335:LEU:HD23	2.32	0.60
18:b:440:THR:HG23	18:b:441:ASN:N	2.17	0.60
18:b:856:GLY:HA2	18:b:857:MET:HB2	1.83	0.60
18:b:1185:PRO:O	18:b:1188:ALA:N	2.34	0.60
23:g:138:ILE:HD11	23:g:171:VAL:CG2	2.31	0.60
1:F:149:TYR:OH	7:V:72:ASP:OD1	2.11	0.60
17:a:39:PHE:O	17:a:40:PRO:C	2.45	0.60
17:a:129:ARG:C	17:a:131:ARG:H	2.10	0.60
17:a:267:ASP:HB3	17:a:268:LEU:HD23	1.84	0.60
17:a:271:LYS:HD3	17:a:322:GLN:OE1	2.02	0.60
17:a:638:THR:HG23	17:a:965:ARG:CZ	2.31	0.60
17:a:728:LEU:HD12	17:a:773:GLN:OE1	2.02	0.60
17:a:886:TYR:HE2	17:a:956:ARG:HD2	1.65	0.60
17:a:1047:TRP:CH2	17:a:1051:GLU:HG3	2.37	0.60
17:a:1281:GLY:O	17:a:1283:PRO:CD	2.50	0.60
17:a:1425:ASP:C	17:a:1427:CYS:H	2.10	0.60
17:a:1474:GLY:O	17:a:1475:THR:CB	2.50	0.60
18:b:391:ARG:HE	18:b:618:ARG:HH21	1.50	0.60
18:b:824:GLN:O	18:b:825:GLU:C	2.45	0.60
20:d:36:THR:O	20:d:40:GLN:HG3	2.01	0.60
21:e:101:THR:HG22	21:e:126:THR:N	2.15	0.60
22:f:120:ILE:HG23	22:f:138:VAL:HG11	1.84	0.60
23:g:93:THR:HG23	23:g:94:THR:N	2.16	0.60
17:a:120:SER:CB	17:a:121:ASN:CA	2.57	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:178:ALA:O	17:a:179:GLN:NE2	2.34	0.59
17:a:312:ASN:ND2	17:a:330:SER:CB	2.52	0.59
17:a:388:PRO:CG	17:a:434:TYR:HE1	2.15	0.59
17:a:429:ASP:O	17:a:430:ILE:C	2.44	0.59
17:a:804:GLY:O	17:a:805:PHE:HB2	2.02	0.59
17:a:815:THR:O	17:a:818:GLU:HB2	2.02	0.59
17:a:876:GLU:HB3	21:e:199:THR:OG1	2.02	0.59
18:b:817:LEU:HD23	18:b:818:CYS:N	2.15	0.59
19:c:187:LEU:HD11	19:c:224:GLU:O	2.01	0.59
22:f:106:ASP:O	22:f:108:LEU:N	2.35	0.59
17:a:167:SER:HA	17:a:168:ALA:C	2.27	0.59
17:a:490:GLY:HA3	18:b:968:LYS:HE2	1.84	0.59
17:a:1461:LEU:CB	17:a:1462:GLY:CA	2.64	0.59
18:b:438:ILE:HG12	18:b:439:ILE:N	2.16	0.59
18:b:601:ILE:HA	18:b:612:LEU:HD23	1.83	0.59
18:b:1061:MET:HG3	18:b:1074:VAL:HB	1.83	0.59
23:g:68:PHE:CD1	23:g:68:PHE:N	2.68	0.59
4:R:110:THR:O	4:R:113:VAL:HG22	2.02	0.59
5:T:17:PHE:CE1	19:c:264:ASP:OD2	2.55	0.59
5:T:78:PRO:HB2	5:T:81:GLU:H	1.66	0.59
17:a:533:THR:HG21	17:a:656:GLN:HG3	1.84	0.59
17:a:922:GLU:HB3	17:a:923:ASN:C	2.27	0.59
17:a:1338:PHE:O	17:a:1339:VAL:C	2.45	0.59
18:b:41:PHE:H	18:b:42:VAL:C	2.10	0.59
18:b:341:ILE:HG23	18:b:345:GLU:HB2	1.84	0.59
18:b:508:VAL:HG13	18:b:510:PRO:HA	1.85	0.59
18:b:640:ILE:HD11	18:b:673:LEU:HB3	1.84	0.59
18:b:778:MET:HA	18:b:956:ARG:HH21	1.67	0.59
19:c:66:LEU:O	19:c:69:ILE:HG23	2.02	0.59
19:c:134:ILE:HG21	19:c:237:GLY:O	2.01	0.59
20:d:16:GLY:O	20:d:20:GLU:CG	2.47	0.59
20:d:127:LEU:HA	20:d:130:LEU:HD12	1.85	0.59
21:e:17:THR:HG21	21:e:136:ILE:HA	1.83	0.59
22:f:65:ALA:C	22:f:67:GLU:H	2.07	0.59
24:h:36:MET:HA	24:h:36:MET:HE2	1.83	0.59
25:i:20:LYS:NZ	25:i:21:VAL:CG2	2.65	0.59
25:i:34:TYR:OH	25:i:36:GLU:HB2	2.03	0.59
25:i:50:SER:O	25:i:51:SER:CB	2.50	0.59
1:F:128:ARG:HD3	3:Q:122:ALA:HB2	1.84	0.59
17:a:382:TYR:HE2	17:a:440:ARG:NE	2.00	0.59
17:a:398:VAL:HG12	17:a:421:LEU:CD1	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:458:LYS:HE2	18:b:1130:HIS:CD2	2.36	0.59
17:a:567:PRO:O	17:a:578:TRP:CH2	2.56	0.59
17:a:1126:TRP:HA	17:a:1128:ALA:HA	1.84	0.59
17:a:1406:CYS:HB3	17:a:1411:THR:CG2	2.32	0.59
18:b:234:ARG:HE	18:b:408:ARG:HH22	1.50	0.59
18:b:461:ASN:O	18:b:462:ARG:O	2.20	0.59
20:d:61:TYR:O	20:d:65:PHE:HD2	1.85	0.59
25:i:72:ASP:CA	25:i:81:HIS:NE2	2.65	0.59
5:T:41:TYR:CE2	5:T:89:LEU:HD21	2.38	0.59
17:a:183:ARG:NH2	17:a:203:PRO:C	2.61	0.59
17:a:430:ILE:O	17:a:430:ILE:CG1	2.49	0.59
17:a:457:HIS:HA	17:a:1077:GLU:OE2	2.02	0.59
17:a:549:ARG:HH22	27:k:50:LEU:HG	1.66	0.59
17:a:604:SER:OG	17:a:605:ASN:N	2.35	0.59
17:a:781:ILE:HD12	17:a:782:PRO:HD2	1.85	0.59
17:a:918:GLU:OE1	17:a:981:PRO:CG	2.51	0.59
17:a:968:GLN:HG3	17:a:968:GLN:O	2.02	0.59
17:a:1098:THR:HA	17:a:1116:THR:HG21	1.84	0.59
17:a:1165:VAL:O	17:a:1166:ILE:CD1	2.50	0.59
17:a:1247:ARG:O	17:a:1248:ASP:C	2.46	0.59
17:a:1397:ARG:NH1	17:a:1400:THR:OG1	2.35	0.59
18:b:41:PHE:HB3	18:b:42:VAL:HB	1.83	0.59
20:d:55:MET:O	20:d:59:VAL:HG23	2.02	0.59
25:i:20:LYS:NZ	25:i:21:VAL:HG23	2.18	0.59
3:Q:135:GLU:OE1	20:d:124:LEU:HG	2.01	0.59
4:R:137:THR:HB	4:R:170:TYR:CZ	2.38	0.59
17:a:154:LEU:HA	17:a:173:GLY:CA	2.28	0.59
17:a:512:MET:C	17:a:514:PRO:CD	2.75	0.59
17:a:781:ILE:HG21	17:a:803:ARG:CA	2.29	0.59
17:a:945:LEU:O	17:a:945:LEU:HD23	2.01	0.59
17:a:1173:VAL:O	17:a:1177:PHE:HD2	1.83	0.59
17:a:1402:ALA:O	17:a:1405:ARG:N	2.36	0.59
17:a:1450:TYR:CE2	22:f:125:ARG:CG	2.85	0.59
18:b:399:LEU:HA	18:b:402:LEU:HD12	1.84	0.59
18:b:981:MET:HE1	27:k:66:LEU:HD21	1.83	0.59
19:c:144:LEU:HD23	19:c:145:ILE:N	2.18	0.59
23:g:15:HIS:ND1	23:g:16:PRO:HD2	2.17	0.59
23:g:63:VAL:CG1	23:g:66:GLN:HB2	2.32	0.59
5:T:99:GLU:O	5:T:113:ALA:CA	2.50	0.59
17:a:86:ILE:HG22	17:a:245:LEU:HB3	1.84	0.59
17:a:154:LEU:N	17:a:173:GLY:CA	2.63	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:317:GLN:N	17:a:318:PRO:CD	2.65	0.59
17:a:1140:GLN:O	17:a:1280:ARG:HG2	2.03	0.59
17:a:1496:PHE:CD1	20:d:29:GLU:HG2	2.38	0.59
18:b:318:ASP:O	18:b:320:ILE:N	2.31	0.59
18:b:426:ARG:O	18:b:428:PHE:N	2.31	0.59
18:b:654:ARG:CD	18:b:657:ILE:HG13	2.33	0.59
18:b:960:THR:HB	19:c:60:GLU:OE1	2.02	0.59
19:c:198:ALA:O	19:c:200:ALA:N	2.36	0.59
20:d:101:ALA:O	20:d:104:ALA:N	2.35	0.59
21:e:159:LEU:HD23	21:e:162:ARG:HD3	1.83	0.59
23:g:112:SER:OG	23:g:115:LEU:HG	2.02	0.59
24:h:6:LEU:HB2	24:h:59:ILE:CD1	2.32	0.59
24:h:30:VAL:H	24:h:37:ASN:HA	1.66	0.59
25:i:88:THR:OG1	25:i:89:HIS:N	2.30	0.59
17:a:135:ASN:C	17:a:137:LEU:H	2.10	0.59
17:a:520:PRO:HB3	17:a:882:THR:N	2.17	0.59
17:a:664:LEU:HD23	17:a:665:HIS:HE1	1.66	0.59
17:a:846:ARG:HG2	17:a:1390:ILE:HG22	1.83	0.59
17:a:1020:LEU:HB2	21:e:201:GLY:N	2.16	0.59
18:b:281:ARG:HA	25:i:6:TYR:HE2	1.68	0.59
18:b:290:ASP:HB2	18:b:292:ASN:HD22	1.57	0.59
18:b:319:TYR:CD2	18:b:319:TYR:O	2.56	0.59
18:b:871:THR:O	18:b:872:LEU:HG	2.01	0.59
18:b:1205:PHE:CE2	18:b:1210:LYS:HA	2.37	0.59
20:d:11:ALA:HB1	20:d:13:LEU:N	2.17	0.59
20:d:11:ALA:CB	20:d:12:GLN:C	2.63	0.59
20:d:57:LYS:HD2	23:g:106:PRO:HA	1.84	0.59
20:d:71:ALA:O	20:d:75:TYR:HD1	1.84	0.59
21:e:58:SER:HB3	21:e:75:GLU:HA	1.83	0.59
17:a:25:SER:HA	17:a:239:TRP:CD1	2.38	0.59
17:a:86:ILE:CG2	17:a:245:LEU:HB3	2.31	0.59
17:a:1219:ILE:CG2	17:a:1273:MET:HE1	2.33	0.59
17:a:1325:VAL:HG12	17:a:1326:GLU:N	2.18	0.59
17:a:1450:TYR:HD1	23:g:61:ARG:N	2.00	0.59
18:b:1058:PHE:HE2	19:c:193:TRP:CD1	2.17	0.59
18:b:1106:GLN:HB3	18:b:1107:PRO:HD2	1.84	0.59
19:c:136:ALA:HB3	26:j:16:ASP:OD2	2.03	0.59
19:c:252:LEU:HD21	27:k:44:MET:HE1	1.85	0.59
20:d:22:GLU:CD	23:g:4:PHE:HB3	2.27	0.59
20:d:99:GLU:HB3	20:d:124:LEU:HD21	1.77	0.59
21:e:60:TYR:HB3	21:e:73:TYR:HD1	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:k:64:HIS:CD2	27:k:66:LEU:HB2	2.37	0.59
3:Q:225:ASN:OD1	7:V:75:ARG:NH1	2.36	0.59
3:Q:310:ILE:HD12	3:Q:397:PHE:HB2	1.83	0.59
8:N:868:ILE:N	8:N:869:LEU:HA	2.17	0.59
17:a:105:LEU:O	17:a:106:GLU:CB	2.32	0.59
17:a:116:LYS:HG2	17:a:117:ILE:N	2.18	0.59
17:a:401:GLY:O	17:a:407:GLY:HA3	2.03	0.59
17:a:439:GLU:OE2	18:b:1097:ARG:NH2	2.36	0.59
17:a:1195:LEU:HD13	17:a:1242:ARG:HD3	1.78	0.59
21:e:22:VAL:HG21	21:e:29:VAL:CG2	2.33	0.59
21:e:27:TYR:CE2	21:e:72:ILE:HG13	2.38	0.59
25:i:105:HIS:O	25:i:106:CYS:SG	2.57	0.59
3:Q:105:LYS:O	3:Q:109:ILE:HG12	2.02	0.58
3:Q:510:ARG:HB2	3:Q:519:GLN:HG2	1.85	0.58
8:N:524:SER:N	8:N:525:ASN:HA	2.18	0.58
17:a:25:SER:CB	17:a:239:TRP:CE2	2.85	0.58
17:a:86:ILE:O	17:a:87:GLU:C	2.46	0.58
17:a:350:ARG:CD	18:b:1117:LEU:O	2.51	0.58
17:a:800:PRO:O	17:a:802:SER:N	2.36	0.58
18:b:391:ARG:HE	18:b:618:ARG:NH2	2.01	0.58
18:b:486:THR:HG21	18:b:521:LEU:CB	2.30	0.58
18:b:1112:SER:O	18:b:1113:ARG:HB3	2.01	0.58
23:g:3:PHE:CE1	23:g:80:TRP:HD1	2.18	0.58
24:h:108:HIS:CD2	24:h:111:LEU:HD13	2.37	0.58
3:Q:139:GLU:HB3	20:d:130:LEU:C	2.28	0.58
4:R:138:VAL:HA	4:R:169:VAL:HA	1.86	0.58
5:T:105:VAL:H	5:T:109:LYS:HG2	1.67	0.58
5:T:137:ASP:OD1	5:T:140:ARG:NE	2.36	0.58
7:V:13:ARG:O	7:V:16:THR:OG1	2.17	0.58
17:a:6:PHE:C	17:a:8:PRO:CD	2.76	0.58
17:a:14:ARG:NH1	18:b:1207:LYS:HD3	2.18	0.58
17:a:118:ASP:HB2	17:a:120:SER:CB	2.33	0.58
17:a:378:LYS:HA	17:a:441:HIS:HD2	1.62	0.58
17:a:452:ARG:HH11	17:a:486:ALA:HB2	1.68	0.58
17:a:780:ARG:HH11	17:a:803:ARG:CZ	2.16	0.58
17:a:1150:THR:O	17:a:1151:SER:OG	2.17	0.58
17:a:1409:GLU:HB3	17:a:1410:GLU:HA	1.85	0.58
17:a:1496:PHE:CE2	20:d:33:LEU:CG	2.76	0.58
18:b:229:LEU:N	18:b:229:LEU:HD23	2.18	0.58
18:b:290:ASP:OD1	18:b:291:PRO:CD	2.50	0.58
18:b:685:VAL:HG12	18:b:686:MET:H	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:816:ILE:HG23	18:b:1001:ILE:HD12	1.85	0.58
18:b:991:SER:CB	18:b:1062:TYR:H	2.14	0.58
18:b:1061:MET:HE1	18:b:1076:LEU:HD12	1.84	0.58
23:g:50:LEU:HD12	23:g:76:ARG:HB3	1.84	0.58
27:k:52:ASP:HB3	27:k:54:ARG:HG3	1.84	0.58
2:H:25:GLN:NE2	2:H:28:THR:OG1	2.36	0.58
4:R:4:LEU:HB2	4:R:171:THR:HG22	1.84	0.58
17:a:11:VAL:HG23	18:b:1181:GLN:HB2	1.85	0.58
17:a:51:ARG:HD2	17:a:57:ASP:CG	2.27	0.58
17:a:150:CYS:HB2	17:a:176:GLY:N	2.18	0.58
17:a:385:THR:HG23	17:a:437:ARG:HG2	1.84	0.58
17:a:558:TRP:CH2	27:k:61:LYS:HE2	2.33	0.58
17:a:723:LYS:O	17:a:727:ILE:HG23	2.02	0.58
17:a:917:MET:HE1	17:a:986:PRO:HD3	1.85	0.58
17:a:969:ASN:HD22	17:a:969:ASN:H	1.49	0.58
17:a:1390:ILE:O	17:a:1390:ILE:HG22	2.02	0.58
18:b:225:ILE:HD11	18:b:367:MET:SD	2.43	0.58
19:c:44:ALA:HA	19:c:71:LEU:HD13	1.85	0.58
20:d:23:ASP:HB3	20:d:87:LYS:HD3	1.85	0.58
26:j:31:GLU:HB3	26:j:33:GLU:H	1.68	0.58
28:l:21:ILE:HG23	28:l:30:ARG:HG3	1.84	0.58
17:a:115:LEU:HD21	17:a:227:HIS:CD2	2.38	0.58
17:a:382:TYR:H	17:a:383:PRO:HD3	1.67	0.58
17:a:808:ASN:CB	17:a:813:GLY:O	2.47	0.58
17:a:812:ARG:N	17:a:813:GLY:HA2	2.16	0.58
17:a:1290:MET:SD	17:a:1311:VAL:C	2.87	0.58
18:b:30:LEU:HB2	18:b:184:GLN:OE1	2.03	0.58
18:b:211:PHE:CE2	18:b:213:LYS:HE3	2.38	0.58
18:b:329:VAL:N	18:b:330:THR:HA	2.11	0.58
18:b:724:VAL:O	18:b:724:VAL:HG12	2.02	0.58
20:d:66:ALA:HB1	20:d:69:LYS:HG2	1.85	0.58
20:d:68:PHE:HB3	20:d:73:ALA:CB	2.33	0.58
26:j:7:CYS:HB3	26:j:45:CYS:CB	2.32	0.58
28:l:48:VAL:O	28:l:49:MET:CB	2.51	0.58
5:T:115:VAL:HG12	5:T:122:LYS:HB3	1.85	0.58
13:2:105:GLU:HA	13:2:114:GLY:H	1.67	0.58
17:a:318:PRO:O	17:a:319:GLN:HB2	2.04	0.58
17:a:388:PRO:CB	17:a:434:TYR:CE1	2.86	0.58
17:a:916:TYR:C	17:a:918:GLU:H	2.11	0.58
17:a:1080:THR:O	17:a:1083:THR:HG22	2.04	0.58
17:a:1216:ALA:HA	17:a:1219:ILE:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:872:LEU:CG	18:b:872:LEU:O	2.51	0.58
18:b:1037:THR:HG23	18:b:1039:VAL:H	1.69	0.58
21:e:42:LYS:O	21:e:45:HIS:O	2.21	0.58
23:g:51:ASP:O	23:g:52:SER:HB3	2.03	0.58
4:R:35:PHE:HA	4:R:125:ILE:HG12	1.85	0.58
4:R:83:GLU:HG2	4:R:99:VAL:HG13	1.86	0.58
5:T:94:GLN:HB2	19:c:89:ASN:CA	2.33	0.58
8:N:172:TYR:HA	8:N:173:GLU:HB3	1.84	0.58
12:3:41:TYR:CB	12:3:46:ALA:CB	2.81	0.58
17:a:342:LEU:HD13	17:a:342:LEU:C	2.28	0.58
17:a:425:LYS:CE	17:a:430:ILE:HG13	2.33	0.58
17:a:810:TYR:CE2	18:b:751:ASN:C	2.81	0.58
17:a:1437:GLY:HA2	18:b:1141:PHE:CG	2.38	0.58
17:a:1450:TYR:CD1	23:g:61:ARG:N	2.72	0.58
17:a:1478:LEU:HD23	20:d:45:THR:C	2.29	0.58
18:b:106:LEU:C	18:b:108:ASN:H	2.10	0.58
18:b:292:ASN:OD1	18:b:297:LEU:CD1	2.48	0.58
18:b:297:LEU:O	18:b:298:GLU:C	2.46	0.58
18:b:378:ARG:HG2	25:i:52:ASN:ND2	2.19	0.58
18:b:532:SER:HB2	18:b:618:ARG:HB2	1.84	0.58
18:b:582:LEU:O	18:b:586:LEU:HD13	2.04	0.58
18:b:754:PRO:O	18:b:757:THR:HG22	2.02	0.58
21:e:21:LEU:CD2	21:e:25:ARG:HE	2.16	0.58
21:e:74:ILE:HA	21:e:103:ILE:HG13	1.85	0.58
23:g:140:LYS:O	23:g:140:LYS:HG2	2.02	0.58
28:l:39:ILE:N	28:l:39:ILE:HD12	2.18	0.58
2:H:13:LEU:HD23	2:H:16:ILE:HD12	1.85	0.58
3:Q:205:TYR:HA	3:Q:208:LEU:HB2	1.85	0.58
8:N:189:CYS:CB	8:N:197:PHE:CD2	2.77	0.58
8:N:216:GLN:HA	8:N:252:PHE:HZ	1.69	0.58
8:N:851:ALA:N	8:N:852:PRO:CB	2.66	0.58
17:a:95:ILE:CG2	17:a:314:ILE:CD1	2.73	0.58
17:a:114:LYS:O	17:a:115:LEU:C	2.44	0.58
17:a:117:ILE:HD11	17:a:143:VAL:CG2	2.31	0.58
17:a:349:LYS:HZ1	18:b:1187:ALA:HB3	1.67	0.58
17:a:785:PHE:HZ	17:a:791:PRO:CG	2.16	0.58
17:a:792:HIS:HB3	17:a:817:GLN:HE21	1.68	0.58
17:a:809:SER:C	17:a:811:LEU:H	2.12	0.58
17:a:946:CYS:N	17:a:947:LYS:O	2.35	0.58
17:a:1478:LEU:HD12	17:a:1479:PRO:CD	2.18	0.58
18:b:213:LYS:O	18:b:214:ALA:CB	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:942:MET:HB2	28:l:50:TYR:CE1	2.39	0.58
25:i:37:ILE:HG22	25:i:38:ALA:N	2.18	0.58
3:Q:531:GLU:O	3:Q:534:ILE:HG22	2.04	0.58
5:T:39:VAL:HA	5:T:90:TRP:HA	1.85	0.58
5:T:117:GLN:HG3	5:T:122:LYS:HB2	1.86	0.58
17:a:8:PRO:CG	18:b:1148:ARG:HE	2.16	0.58
17:a:11:VAL:HG11	18:b:1179:PHE:HB2	1.85	0.58
17:a:59:ARG:HB2	17:a:60:LEU:HA	1.86	0.58
17:a:87:GLU:O	17:a:88:LEU:CD2	2.51	0.58
17:a:237:PRO:C	17:a:239:TRP:H	2.10	0.58
17:a:644:GLY:O	17:a:648:CYS:HB2	2.03	0.58
17:a:747:ASN:O	17:a:748:ASN:O	2.21	0.58
17:a:835:VAL:C	17:a:837:THR:N	2.60	0.58
17:a:1082:MET:O	17:a:1083:THR:C	2.46	0.58
17:a:1282:VAL:HB	17:a:1285:ILE:CD1	2.21	0.58
18:b:228:ALA:HB2	18:b:237:SER:OG	2.03	0.58
18:b:268:ILE:HG13	18:b:269:VAL:N	2.19	0.58
18:b:700:MET:O	18:b:702:ALA:N	2.36	0.58
18:b:758:TYR:O	18:b:760:SER:N	2.30	0.58
18:b:871:THR:O	18:b:872:LEU:CB	2.50	0.58
23:g:114:HIS:CD2	23:g:114:HIS:O	2.56	0.58
23:g:116:VAL:HG12	23:g:117:PRO:HD2	1.82	0.58
23:g:147:LYS:CG	23:g:169:LEU:HD11	2.32	0.58
24:h:42:ILE:O	24:h:42:ILE:HG13	2.02	0.58
25:i:110:PHE:CD2	25:i:110:PHE:O	2.56	0.58
3:Q:311:TRP:HH2	3:Q:333:ILE:HG13	1.68	0.58
4:R:41:PRO:HD2	4:R:55:TRP:HE3	1.69	0.58
4:R:146:PRO:HA	4:R:156:PHE:CD1	2.39	0.58
17:a:116:LYS:HA	17:a:147:LYS:HZ2	1.69	0.58
17:a:589:PRO:O	17:a:592:ILE:HD11	2.03	0.58
17:a:1290:MET:HE1	17:a:1312:LEU:CD2	2.28	0.58
18:b:637:GLU:OE1	18:b:698:ARG:HD2	2.04	0.58
18:b:700:MET:C	18:b:702:ALA:N	2.62	0.58
18:b:995:ILE:CG2	26:j:42:ARG:HD2	2.33	0.58
19:c:19:PHE:CE2	19:c:231:MET:HE3	2.39	0.58
21:e:105:ILE:HD12	21:e:105:ILE:C	2.28	0.58
21:e:166:ARG:C	21:e:168:THR:H	2.12	0.58
24:h:80:VAL:HG13	24:h:95:VAL:CG2	2.34	0.58
1:F:88:LEU:HD11	1:F:109:PHE:HB2	1.85	0.58
17:a:20:GLN:OE1	18:b:1205:PHE:CD1	2.57	0.58
17:a:55:LEU:HD13	17:a:56:LEU:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:77:ALA:CB	18:b:1105:ARG:HH22	2.12	0.58
17:a:549:ARG:NH2	27:k:50:LEU:HD21	2.18	0.58
17:a:1195:LEU:HD11	17:a:1242:ARG:CG	2.33	0.58
17:a:1254:GLU:O	17:a:1255:ASP:C	2.47	0.58
17:a:1319:LEU:O	17:a:1321:GLU:N	2.36	0.58
18:b:605:ILE:HG22	25:i:61:ASP:HB3	1.86	0.58
18:b:654:ARG:CB	18:b:655:TYR:CA	2.56	0.58
20:d:36:THR:O	20:d:40:GLN:CG	2.52	0.58
21:e:97:HIS:HB2	21:e:99:HIS:HE1	1.69	0.58
1:F:96:ARG:NH2	1:F:99:GLU:O	2.36	0.57
5:T:36:LYS:H	5:T:95:SER:HB3	1.68	0.57
17:a:275:ILE:HD13	17:a:306:VAL:HG23	1.86	0.57
17:a:645:PRO:O	17:a:646:GLU:CB	2.51	0.57
17:a:846:ARG:HH12	17:a:1391:THR:HA	1.59	0.57
17:a:849:LYS:O	17:a:1408:PHE:CE2	2.56	0.57
17:a:916:TYR:C	17:a:918:GLU:N	2.61	0.57
17:a:1118:SER:C	17:a:1314:THR:CG2	2.77	0.57
17:a:1485:PRO:C	17:a:1486:TYR:CD1	2.81	0.57
18:b:221:TYR:CB	18:b:243:LEU:HD13	2.34	0.57
18:b:556:ASN:OD1	18:b:557:PRO:HD3	2.03	0.57
18:b:1095:ARG:O	18:b:1096:ALA:HB2	2.04	0.57
18:b:1110:GLY:O	18:b:1111:ARG:HB2	2.03	0.57
19:c:37:LEU:HA	19:c:174:THR:HG21	1.84	0.57
19:c:259:LEU:CD1	27:k:34:LEU:HD21	2.34	0.57
25:i:5:GLN:O	25:i:14:LEU:HD12	2.03	0.57
25:i:79:HIS:CD2	25:i:79:HIS:C	2.81	0.57
3:Q:139:GLU:CB	20:d:130:LEU:C	2.77	0.57
6:K:73:ARG:NH1	7:V:22:ASP:OD1	2.38	0.57
8:N:164:LEU:HA	8:N:167:ILE:HD12	1.85	0.57
13:2:133:ASN:O	13:2:135:ASN:N	2.32	0.57
17:a:13:LEU:O	18:b:1181:GLN:O	2.22	0.57
17:a:24:LEU:CB	18:b:1199:ASN:C	2.65	0.57
17:a:100:LYS:NZ	17:a:1420:ALA:HB1	2.19	0.57
17:a:819:PHE:HB2	18:b:749:ASP:CG	2.28	0.57
17:a:947:LYS:HA	17:a:948:PHE:C	2.23	0.57
17:a:1103:ARG:O	17:a:1104:LEU:C	2.46	0.57
17:a:1276:SER:HB2	17:a:1277:ILE:CD1	2.34	0.57
17:a:1444:THR:HB	18:b:1131:GLY:O	2.04	0.57
18:b:82:ILE:HB	18:b:117:VAL:HG22	1.86	0.57
18:b:633:GLU:HG3	18:b:641:ARG:NH2	2.19	0.57
18:b:752:GLN:CG	18:b:1010:MET:HE3	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:1061:MET:HG3	18:b:1074:VAL:CG2	2.34	0.57
18:b:1076:LEU:HD23	18:b:1076:LEU:C	2.28	0.57
24:h:59:ILE:HG13	24:h:60:THR:H	1.68	0.57
4:R:77:GLN:NE2	4:R:78:TRP:O	2.30	0.57
17:a:40:PRO:HA	17:a:276:ILE:HG21	1.86	0.57
17:a:513:VAL:N	17:a:514:PRO:CD	2.66	0.57
17:a:584:LEU:HD23	17:a:584:LEU:C	2.29	0.57
17:a:771:VAL:HG23	17:a:809:SER:HA	1.85	0.57
17:a:1097:VAL:O	17:a:1098:THR:HG23	2.03	0.57
18:b:273:ARG:NE	18:b:310:ILE:CD1	2.60	0.57
18:b:659:PRO:CA	18:b:660:GLU:O	2.50	0.57
19:c:147:LYS:O	19:c:148:LEU:HD23	2.03	0.57
19:c:257:ALA:O	19:c:258:VAL:C	2.47	0.57
21:e:59:PHE:O	21:e:74:ILE:HG13	2.05	0.57
3:Q:442:GLN:HG2	3:Q:452:PHE:CE2	2.39	0.57
5:T:93:ARG:NH1	19:c:91:ASP:O	2.22	0.57
8:N:489:LEU:HA	8:N:505:LYS:HA	1.86	0.57
17:a:28:GLU:OE1	18:b:1203:ARG:NH2	2.36	0.57
17:a:56:LEU:C	17:a:56:LEU:CD1	2.77	0.57
17:a:95:ILE:C	17:a:98:LEU:HB2	2.28	0.57
17:a:118:ASP:CG	17:a:172:HIS:ND1	2.62	0.57
17:a:405:HIS:CB	17:a:406:PRO:CD	2.54	0.57
17:a:1062:SER:HA	17:a:1063:PRO:O	2.05	0.57
17:a:1161:PRO:CG	17:a:1190:LYS:CG	2.22	0.57
17:a:1412:VAL:HG13	17:a:1413:GLU:HG3	1.86	0.57
18:b:685:VAL:HG12	18:b:728:THR:CG2	2.34	0.57
18:b:790:LYS:O	18:b:792:LEU:N	2.37	0.57
20:d:14:LYS:O	20:d:15:LEU:CG	2.52	0.57
21:e:142:HIS:O	21:e:143:GLU:C	2.47	0.57
23:g:115:LEU:CD2	23:g:163:THR:HG22	2.35	0.57
23:g:115:LEU:CD1	23:g:163:THR:HG22	2.30	0.57
2:H:64:LEU:HD13	7:V:48:THR:HG22	1.87	0.57
2:H:190:ASP:O	2:H:193:SER:OG	2.16	0.57
5:T:50:PRO:HB2	5:T:52:THR:H	1.69	0.57
17:a:128:GLN:CG	17:a:139:ALA:CB	2.74	0.57
17:a:573:LYS:CE	24:h:74:TYR:CZ	2.87	0.57
17:a:1098:THR:HG22	17:a:1116:THR:OG1	2.04	0.57
18:b:701:GLN:NE2	18:b:725:HIS:O	2.37	0.57
19:c:35:VAL:HG21	19:c:252:LEU:CD1	2.34	0.57
23:g:114:HIS:NE2	23:g:115:LEU:CD2	2.67	0.57
25:i:49:GLN:NE2	25:i:51:SER:O	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:53:LYS:O	1:F:56:SER:OG	2.13	0.57
5:T:3:VAL:HG21	5:T:136:VAL:HG13	1.86	0.57
17:a:25:SER:CB	17:a:239:TRP:CD1	2.87	0.57
17:a:41:GLU:O	17:a:41:GLU:CG	2.52	0.57
17:a:266:ASP:HB3	17:a:267:ASP:CG	2.27	0.57
17:a:338:LYS:CG	17:a:339:GLU:N	2.60	0.57
17:a:573:LYS:HB3	24:h:74:TYR:HA	1.86	0.57
17:a:1174:GLU:CD	17:a:1242:ARG:CZ	2.77	0.57
17:a:1188:LEU:O	17:a:1189:TYR:HB3	2.04	0.57
17:a:1295:ILE:CG2	17:a:1307:ALA:O	2.49	0.57
18:b:263:ARG:HD3	18:b:323:ARG:O	2.03	0.57
18:b:685:VAL:HG12	18:b:686:MET:N	2.19	0.57
18:b:778:MET:SD	18:b:778:MET:O	2.63	0.57
18:b:901:ILE:H	18:b:901:ILE:HD13	1.70	0.57
23:g:91:ILE:CG1	23:g:143:ASN:OD1	2.45	0.57
23:g:114:HIS:CD2	23:g:115:LEU:HG	2.40	0.57
3:Q:497:HIS:ND1	3:Q:508:VAL:O	2.37	0.57
4:R:90:ARG:NH2	4:R:186:GLU:OE2	2.28	0.57
17:a:11:VAL:HG11	18:b:1179:PHE:CB	2.34	0.57
17:a:33:SER:CB	17:a:85:HIS:N	2.68	0.57
17:a:62:THR:CB	17:a:75:THR:HG21	2.35	0.57
17:a:106:GLU:CD	17:a:144:CYS:HB3	2.30	0.57
17:a:107:CYS:C	17:a:108:VAL:HG23	2.30	0.57
17:a:119:SER:C	17:a:122:PRO:HA	2.29	0.57
17:a:178:ALA:O	17:a:179:GLN:HB2	2.04	0.57
17:a:597:ASP:HA	17:a:601:GLN:OE1	2.05	0.57
17:a:781:ILE:CG1	17:a:821:PHE:HE1	2.18	0.57
17:a:1150:THR:CB	25:i:48:LEU:HD22	2.22	0.57
17:a:1452:ASP:CG	22:f:123:LEU:HD21	2.29	0.57
18:b:290:ASP:CA	18:b:292:ASN:CG	2.75	0.57
18:b:310:ILE:HB	18:b:311:GLN:HA	0.67	0.57
18:b:694:LEU:CD2	18:b:727:TRP:CD1	2.87	0.57
19:c:233:VAL:HG21	19:c:245:MET:HE2	1.87	0.57
20:d:122:GLY:O	20:d:126:GLU:HG3	2.03	0.57
24:h:48:PRO:O	24:h:49:LEU:HD23	2.05	0.57
27:k:46:ALA:C	27:k:48:GLN:N	2.62	0.57
17:a:135:ASN:C	17:a:137:LEU:N	2.60	0.57
17:a:275:ILE:HG12	17:a:305:HIS:CB	2.35	0.57
17:a:571:ILE:HG12	17:a:573:LYS:CE	2.20	0.57
17:a:975:HIS:CE1	17:a:977:GLU:OE2	2.58	0.57
17:a:1172:PHE:HB3	17:a:1176:PHE:HE2	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:79:PHE:CE1	18:b:119:MET:HE1	2.39	0.57
18:b:220:ALA:C	18:b:221:TYR:CD1	2.83	0.57
18:b:386:HIS:HD2	18:b:388:GLY:CA	2.06	0.57
18:b:425:ASN:O	18:b:426:ARG:CB	2.34	0.57
18:b:1009:ARG:O	18:b:1010:MET:C	2.48	0.57
19:c:212:GLU:C	19:c:214:PRO:HD3	2.30	0.57
23:g:79:LEU:HD12	23:g:81:ARG:NH2	2.20	0.57
23:g:82:PRO:HG3	23:g:107:LEU:CD2	2.33	0.57
23:g:84:ARG:HG2	23:g:150:GLY:HA2	1.86	0.57
23:g:143:ASN:O	23:g:172:LEU:HB2	2.04	0.57
3:Q:299:TYR:O	3:Q:303:GLU:HG3	2.05	0.57
4:R:112:PHE:HA	4:R:115:LYS:HD2	1.86	0.57
7:V:13:ARG:HD2	7:V:80:TYR:CE1	2.40	0.57
17:a:104:ILE:HG23	17:a:107:CYS:SG	2.45	0.57
17:a:1085:ASN:O	17:a:1087:PHE:N	2.38	0.57
17:a:1095:LYS:C	17:a:1097:VAL:H	2.11	0.57
17:a:1126:TRP:HB2	17:a:1127:ILE:HG22	1.87	0.57
17:a:1430:ILE:HD12	17:a:1430:ILE:C	2.30	0.57
18:b:105:ARG:HB2	18:b:106:LEU:HD22	1.86	0.57
18:b:281:ARG:CB	25:i:6:TYR:CD2	2.87	0.57
18:b:310:ILE:HB	18:b:311:GLN:C	2.26	0.57
18:b:1163:TYR:O	18:b:1163:TYR:HD1	1.87	0.57
19:c:21:LEU:HG	19:c:231:MET:HE2	1.85	0.57
19:c:218:GLU:N	19:c:219:PRO:HA	2.18	0.57
21:e:60:TYR:HB3	21:e:73:TYR:CD1	2.40	0.57
27:k:81:SER:HB3	27:k:84:GLN:H	1.70	0.57
2:H:34:LEU:HB3	3:Q:105:LYS:HD2	1.86	0.57
4:R:74:LYS:HG2	4:R:109:VAL:HB	1.87	0.57
8:N:177:THR:HG21	8:N:348:ARG:HA	1.87	0.57
16:J:171:UNK:O	16:J:175:UNK:N	2.38	0.57
17:a:161:PHE:HD2	17:a:165:ASN:CG	2.13	0.57
17:a:405:HIS:O	17:a:407:GLY:N	2.30	0.57
17:a:467:ARG:HA	17:a:468:VAL:CB	2.06	0.57
17:a:573:LYS:HB2	17:a:574:PRO:CD	2.33	0.57
17:a:809:SER:O	17:a:811:LEU:N	2.30	0.57
17:a:1103:ARG:O	17:a:1106:GLU:HB2	2.05	0.57
18:b:774:TYR:CE1	18:b:775:GLN:HG2	2.40	0.57
20:d:61:TYR:CD1	23:g:105:GLY:HA2	2.40	0.57
21:e:142:HIS:CD2	21:e:144:LEU:HB2	2.40	0.57
23:g:12:ILE:HG22	23:g:14:LEU:HD13	1.85	0.57
24:h:72:ALA:CB	24:h:123:LEU:O	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:h:79:LYS:HA	24:h:118:HIS:HA	1.86	0.57
26:j:3:ILE:HD11	26:j:18:TRP:CD1	2.40	0.57
27:k:29:ALA:HB2	27:k:75:GLN:HA	1.87	0.57
1:F:204:GLN:HA	1:F:207:HIS:HD2	1.70	0.56
17:a:242:ILE:CD1	17:a:245:LEU:CD1	2.78	0.56
17:a:457:HIS:CD2	17:a:1077:GLU:CD	2.83	0.56
17:a:466:ILE:O	17:a:467:ARG:HB3	2.04	0.56
18:b:488:ILE:HG21	18:b:490:ARG:H	1.70	0.56
19:c:247:GLN:O	19:c:247:GLN:HG3	2.05	0.56
20:d:66:ALA:CB	20:d:69:LYS:HG2	2.35	0.56
23:g:58:ASP:O	23:g:59:LYS:HB2	2.05	0.56
23:g:95:VAL:CG1	23:g:131:TYR:CE2	2.88	0.56
3:Q:520:PHE:HD2	3:Q:526:VAL:HG22	1.70	0.56
8:N:280:GLN:O	8:N:284:GLN:HG3	2.05	0.56
17:a:947:LYS:CA	17:a:948:PHE:O	2.41	0.56
17:a:1110:VAL:O	17:a:1110:VAL:CG1	2.50	0.56
17:a:1260:ILE:HA	17:a:1261:GLU:CB	2.33	0.56
18:b:159:LEU:HD12	18:b:187:TYR:CE2	2.40	0.56
18:b:386:HIS:HA	18:b:387:PHE:HB3	1.86	0.56
18:b:831:ASN:HD21	18:b:833:ALA:H	1.52	0.56
18:b:1067:GLY:N	19:c:30:ASN:HD22	2.03	0.56
19:c:80:PRO:CB	19:c:81:PRO:CD	2.69	0.56
19:c:255:LYS:HD2	27:k:37:GLU:OE2	2.05	0.56
20:d:51:MET:O	20:d:55:MET:CG	2.53	0.56
23:g:97:LYS:NZ	23:g:124:PRO:HG3	2.20	0.56
23:g:144:VAL:HG12	23:g:145:ARG:N	2.20	0.56
26:j:31:GLU:C	26:j:33:GLU:N	2.61	0.56
5:T:148:LEU:HA	5:T:151:PHE:HA	1.87	0.56
8:N:189:CYS:HB2	8:N:197:PHE:CD2	2.40	0.56
8:N:223:GLN:HA	8:N:232:THR:HG21	1.88	0.56
17:a:158:SER:N	17:a:159:ASP:C	2.63	0.56
17:a:209:SER:OG	17:a:212:GLU:CD	2.48	0.56
17:a:263:ARG:O	17:a:263:ARG:CG	2.52	0.56
17:a:317:GLN:N	17:a:318:PRO:HD3	2.19	0.56
17:a:331:ILE:HD11	18:b:1198:MET:SD	2.45	0.56
17:a:549:ARG:HH22	27:k:50:LEU:CG	2.18	0.56
17:a:629:GLY:O	17:a:631:SER:N	2.30	0.56
17:a:810:TYR:HE2	18:b:752:GLN:HA	1.67	0.56
17:a:810:TYR:HD2	18:b:750:HIS:O	1.88	0.56
17:a:852:GLU:HB3	17:a:1430:ILE:CD1	2.36	0.56
17:a:1114:ILE:O	17:a:1115:LYS:C	2.47	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1180:PRO:O	17:a:1182:GLU:N	2.38	0.56
17:a:1246:ILE:O	17:a:1247:ARG:CG	2.52	0.56
17:a:1459:TYR:O	17:a:1460:SER:O	2.24	0.56
17:a:1478:LEU:HD23	20:d:45:THR:H	1.70	0.56
17:a:1496:PHE:HB3	20:d:29:GLU:CD	2.30	0.56
17:a:1496:PHE:HZ	20:d:32:ILE:HG21	1.69	0.56
18:b:12:LEU:HD13	18:b:12:LEU:C	2.30	0.56
18:b:552:LEU:H	18:b:552:LEU:HD13	1.70	0.56
18:b:564:THR:O	18:b:575:VAL:O	2.24	0.56
18:b:716:VAL:O	18:b:716:VAL:HG12	2.04	0.56
18:b:741:LEU:O	18:b:744:ILE:HG12	2.04	0.56
18:b:831:ASN:ND2	18:b:833:ALA:N	2.52	0.56
18:b:847:THR:HG22	18:b:956:ARG:CB	2.34	0.56
18:b:941:VAL:CG1	18:b:955:VAL:HG13	2.34	0.56
18:b:1061:MET:CE	18:b:1076:LEU:HD12	2.35	0.56
18:b:1205:PHE:HE2	18:b:1210:LYS:CB	2.10	0.56
19:c:42:THR:HG21	19:c:171:TRP:O	2.04	0.56
19:c:69:ILE:HD12	19:c:70:PRO:HD2	1.85	0.56
19:c:78:GLU:N	19:c:79:PRO:HD3	2.20	0.56
19:c:253:GLN:NE2	27:k:98:GLU:HG3	2.11	0.56
23:g:90:ALA:HB2	23:g:104:ILE:CG1	2.36	0.56
28:l:24:CYS:HA	28:l:49:MET:HG2	1.86	0.56
1:F:14:ILE:O	1:F:116:TYR:OH	2.20	0.56
2:H:115:GLU:HA	2:H:118:ILE:HD12	1.88	0.56
8:N:208:PRO:O	8:N:210:SER:N	2.38	0.56
8:N:307:LEU:HB2	8:N:328:ILE:HB	1.86	0.56
17:a:2:SER:HB2	23:g:65:GLY:O	2.04	0.56
17:a:7:SER:N	17:a:8:PRO:HD3	2.20	0.56
17:a:166:PRO:CB	17:a:168:ALA:CB	2.78	0.56
17:a:311:ASP:HB2	17:a:314:ILE:CD1	2.36	0.56
17:a:558:TRP:C	17:a:559:VAL:HG22	2.30	0.56
17:a:566:LEU:HD13	27:k:57:PHE:HE1	1.70	0.56
17:a:567:PRO:CG	17:a:586:LEU:HD11	2.36	0.56
17:a:581:LYS:O	17:a:582:GLN:C	2.48	0.56
17:a:675:THR:O	17:a:768:SER:HB3	2.05	0.56
17:a:773:GLN:HB2	17:a:805:PHE:CB	2.34	0.56
17:a:989:ILE:HD11	17:a:1031:VAL:HG22	1.88	0.56
17:a:1278:SER:O	17:a:1279:LEU:CB	2.50	0.56
18:b:281:ARG:CA	25:i:6:TYR:CE2	2.86	0.56
18:b:486:THR:N	18:b:487:PRO:CD	2.68	0.56
18:b:552:LEU:HD13	18:b:552:LEU:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:792:LEU:HD13	18:b:1021:SER:HB2	1.88	0.56
18:b:1103:LEU:O	18:b:1190:LEU:HD11	2.05	0.56
18:b:1208:ASN:C	18:b:1210:LYS:H	2.13	0.56
20:d:84:ARG:HH21	20:d:87:LYS:CE	2.18	0.56
25:i:6:TYR:O	25:i:14:LEU:HG	2.05	0.56
28:l:54:THR:OG1	28:l:56:ARG:HG3	2.04	0.56
1:F:202:PHE:CE2	8:N:273:GLN:HA	2.41	0.56
17:a:24:LEU:N	18:b:1199:ASN:O	2.38	0.56
17:a:62:THR:HG22	17:a:63:ILE:N	2.21	0.56
17:a:263:ARG:CG	17:a:263:ARG:NH2	2.43	0.56
17:a:370:LEU:HD12	17:a:475:ARG:O	2.05	0.56
17:a:781:ILE:HG23	17:a:781:ILE:O	2.05	0.56
17:a:816:PRO:CB	18:b:689:MET:CE	2.82	0.56
17:a:947:LYS:H	17:a:947:LYS:HD2	1.69	0.56
17:a:1009:ILE:O	21:e:162:ARG:NH2	2.39	0.56
18:b:102:GLN:HG2	18:b:105:ARG:NE	2.20	0.56
18:b:752:GLN:O	18:b:752:GLN:HG2	2.06	0.56
18:b:901:ILE:HD11	18:b:928:THR:OG1	2.05	0.56
19:c:73:SER:HB2	19:c:239:ILE:HG22	1.87	0.56
19:c:216:GLU:HB3	19:c:217:GLY:C	2.30	0.56
19:c:240:PRO:O	19:c:243:GLU:HB2	2.05	0.56
20:d:32:ILE:HD11	20:d:74:THR:HG23	1.83	0.56
26:j:4:PRO:HG2	26:j:48:MET:CE	2.26	0.56
2:H:116:ALA:O	2:H:119:SER:OG	2.13	0.56
3:Q:262:SER:N	3:Q:350:SER:O	2.38	0.56
3:Q:469:LEU:HD12	3:Q:472:SER:HB2	1.85	0.56
4:R:191:LYS:O	4:R:194:THR:OG1	2.18	0.56
17:a:48:GLN:CG	17:a:50:PRO:HD3	2.35	0.56
17:a:71:THR:CG2	17:a:82:HIS:NE2	2.68	0.56
17:a:521:GLN:O	17:a:1370:ASN:HB2	2.06	0.56
17:a:946:CYS:SG	17:a:949:ILE:HD11	2.45	0.56
17:a:1433:ASN:C	17:a:1435:MET:H	2.14	0.56
18:b:797:SER:O	18:b:801:LEU:HD12	2.06	0.56
19:c:71:LEU:HA	19:c:133:PRO:HA	1.88	0.56
21:e:118:ILE:O	21:e:120:THR:N	2.36	0.56
26:j:2:ILE:H	26:j:56:ILE:CD1	2.09	0.56
1:F:124:LEU:O	1:F:128:ARG:HG3	2.06	0.56
5:T:42:LYS:O	5:T:44:TYR:N	2.37	0.56
17:a:468:VAL:O	17:a:468:VAL:HG22	2.05	0.56
17:a:552:VAL:O	17:a:553:MET:C	2.49	0.56
18:b:269:VAL:HB	18:b:307:ALA:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:298:GLU:C	18:b:300:MET:N	2.62	0.56
18:b:605:ILE:CG2	25:i:61:ASP:HB3	2.36	0.56
18:b:654:ARG:NH1	18:b:657:ILE:HG21	2.21	0.56
23:g:14:LEU:HD22	23:g:27:LEU:CD2	2.30	0.56
24:h:92:SER:HA	24:h:104:ILE:O	2.05	0.56
24:h:108:HIS:HB3	24:h:111:LEU:HD22	1.88	0.56
26:j:42:ARG:O	26:j:43:TYR:C	2.49	0.56
3:Q:135:GLU:HB3	20:d:128:SER:HA	1.85	0.56
5:T:96:PHE:HB3	5:T:117:GLN:HG2	1.88	0.56
5:T:177:LEU:HD23	5:T:180:GLN:OE1	2.05	0.56
6:K:33:ASP:O	6:K:36:SER:OG	2.18	0.56
8:N:552:SER:O	8:N:555:SER:OG	2.15	0.56
17:a:8:PRO:HG2	18:b:1148:ARG:CD	2.35	0.56
17:a:116:LYS:CE	17:a:140:VAL:HG13	2.35	0.56
17:a:147:LYS:CG	17:a:148:MET:H	2.16	0.56
17:a:605:ASN:ND2	24:h:26:ARG:HH12	2.03	0.56
17:a:776:VAL:HA	17:a:828:GLU:OE2	2.05	0.56
17:a:1119:LEU:CD2	17:a:1314:THR:HG21	2.35	0.56
18:b:245:ALA:HA	18:b:253:GLN:HG3	1.88	0.56
18:b:688:ALA:HB3	18:b:730:CYS:HB2	1.86	0.56
18:b:1073:GLN:HE21	19:c:192:TYR:HA	1.70	0.56
24:h:60:THR:CG2	24:h:61:SER:N	2.53	0.56
24:h:74:TYR:HB3	24:h:123:LEU:HB2	1.87	0.56
3:Q:234:LEU:HD12	3:Q:302:GLN:HE22	1.71	0.56
3:Q:259:LEU:HD11	3:Q:304:ILE:HG21	1.87	0.56
5:T:56:LEU:HD13	5:T:181:LEU:HD12	1.88	0.56
17:a:5:GLN:C	17:a:8:PRO:HD3	2.31	0.56
17:a:162:ASP:HA	17:a:165:ASN:CA	2.36	0.56
17:a:252:VAL:HG22	18:b:1193:GLN:OE1	2.05	0.56
17:a:352:ASP:O	17:a:353:PHE:C	2.49	0.56
17:a:414:ASP:OD2	17:a:433:ARG:NE	2.39	0.56
17:a:1145:THR:HG23	17:a:1146:LEU:N	2.21	0.56
17:a:1299:ILE:HG22	17:a:1300:GLU:N	2.20	0.56
18:b:480:HIS:HD2	18:b:483:ARG:CZ	2.18	0.56
18:b:562:ASN:HA	18:b:563:ALA:HB3	1.88	0.56
18:b:685:VAL:HG13	18:b:728:THR:HG21	1.87	0.56
18:b:861:GLU:HG3	18:b:904:THR:O	2.05	0.56
18:b:1066:THR:C	19:c:30:ASN:ND2	2.56	0.56
19:c:84:LEU:HD23	19:c:84:LEU:C	2.17	0.56
19:c:168:HIS:O	19:c:170:LYS:N	2.39	0.56
23:g:50:LEU:O	23:g:54:THR:OG1	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:h:79:LYS:CD	24:h:81:TYR:HE2	2.17	0.56
25:i:81:HIS:HD1	25:i:82:GLU:HG3	1.71	0.56
2:H:181:GLU:HA	2:H:184:ALA:HB3	1.88	0.56
3:Q:160:GLN:HB3	3:Q:162:PRO:HA	1.88	0.56
3:Q:442:GLN:NE2	7:V:116:GLU:H	2.03	0.56
17:a:16:VAL:CG2	18:b:1182:VAL:CG2	2.84	0.56
17:a:120:SER:C	17:a:121:ASN:HD22	2.14	0.56
17:a:773:GLN:HB2	17:a:805:PHE:HB2	1.88	0.56
17:a:778:GLY:HA2	17:a:1091:GLY:O	2.06	0.56
17:a:1043:VAL:HG13	17:a:1044:ALA:N	2.21	0.56
17:a:1085:ASN:C	17:a:1087:PHE:H	2.14	0.56
17:a:1106:GLU:CD	17:a:1114:ILE:HA	2.31	0.56
17:a:1430:ILE:CG2	17:a:1442:MET:HE1	2.36	0.56
18:b:54:SER:HA	18:b:79:PHE:CD2	2.38	0.56
18:b:472:TYR:CG	18:b:1085:LYS:HE2	2.41	0.56
18:b:576:HIS:CD2	18:b:577:ARG:O	2.58	0.56
18:b:1037:THR:HG23	18:b:1039:VAL:HB	1.88	0.56
20:d:58:THR:HB	20:d:62:PHE:HE2	0.76	0.56
23:g:134:GLU:O	23:g:136:GLN:N	2.39	0.56
24:h:60:THR:HG23	24:h:62:ASN:H	1.70	0.56
25:i:68:LEU:CD2	25:i:69:PRO:HD2	2.26	0.56
25:i:108:PHE:O	25:i:110:PHE:N	2.37	0.56
27:k:76:THR:HG21	27:k:85:VAL:HG21	1.87	0.56
4:R:60:SER:HA	4:R:78:TRP:HA	1.88	0.55
5:T:78:PRO:HA	5:T:79:GLU:CB	2.33	0.55
8:N:396:GLU:OE2	8:N:399:ARG:NH1	2.39	0.55
13:2:7:ARG:O	13:2:11:GLU:N	2.36	0.55
17:a:21:PHE:CE2	17:a:1403:LEU:HD12	2.41	0.55
17:a:51:ARG:HD3	17:a:56:LEU:HG	1.87	0.55
17:a:120:SER:OG	17:a:121:ASN:CG	2.49	0.55
17:a:343:ARG:NE	17:a:1409:GLU:OE2	2.39	0.55
17:a:571:ILE:HG23	17:a:573:LYS:HG3	1.88	0.55
17:a:1020:LEU:O	17:a:1023:ILE:HG12	2.07	0.55
17:a:1119:LEU:CD1	17:a:1121:ILE:HG13	2.36	0.55
17:a:1295:ILE:CG2	17:a:1309:GLU:HG2	2.36	0.55
18:b:273:ARG:HH11	18:b:310:ILE:CG1	2.20	0.55
18:b:300:MET:O	18:b:301:LYS:C	2.49	0.55
18:b:317:LEU:HD22	18:b:335:LEU:HD22	1.88	0.55
18:b:406:LEU:HB3	18:b:439:ILE:HG22	1.87	0.55
18:b:421:CYS:HA	18:b:425:ASN:HB2	1.87	0.55
18:b:1073:GLN:OE1	18:b:1073:GLN:HA	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:17:ARG:NH2	3:Q:137:SER:O	2.39	0.55
3:Q:296:LYS:O	3:Q:300:LYS:HG2	2.05	0.55
8:N:437:LEU:HD11	8:N:449:HIS:HB2	1.88	0.55
17:a:94:HIS:H	17:a:98:LEU:CG	2.19	0.55
17:a:152:THR:O	17:a:174:GLY:HA3	2.06	0.55
17:a:326:ARG:O	17:a:327:PRO:C	2.49	0.55
17:a:652:PHE:O	17:a:656:GLN:CB	2.53	0.55
17:a:696:VAL:CG2	17:a:727:ILE:HD11	2.35	0.55
17:a:855:MET:HG3	17:a:1066:MET:H	1.70	0.55
17:a:1431:SER:HA	17:a:1434:ILE:HG12	1.89	0.55
17:a:1437:GLY:HA2	18:b:1141:PHE:CD2	2.42	0.55
18:b:41:PHE:HB3	18:b:42:VAL:CG2	2.35	0.55
18:b:814:VAL:HG22	18:b:999:ILE:HG12	1.87	0.55
23:g:95:VAL:HG13	23:g:131:TYR:HE2	1.69	0.55
23:g:114:HIS:CD2	23:g:115:LEU:CD2	2.89	0.55
23:g:152:ARG:N	23:g:159:PHE:O	2.39	0.55
25:i:77:ARG:O	25:i:78:CYS:C	2.48	0.55
28:l:55:LYS:N	28:l:56:ARG:HB2	2.21	0.55
6:K:107:GLN:O	6:K:111:LEU:N	2.39	0.55
8:N:337:ILE:HG22	8:N:339:ALA:H	1.72	0.55
17:a:71:THR:HG21	17:a:82:HIS:CE1	2.41	0.55
17:a:95:ILE:O	17:a:96:GLY:C	2.47	0.55
17:a:111:ASN:OD1	17:a:216:ILE:CG1	2.47	0.55
17:a:163:LEU:O	17:a:163:LEU:CG	2.41	0.55
17:a:217:PHE:O	17:a:220:ILE:HG13	2.06	0.55
17:a:780:ARG:NH1	17:a:803:ARG:CZ	2.69	0.55
18:b:262:ILE:HG21	18:b:323:ARG:O	2.06	0.55
18:b:561:PRO:HA	18:b:563:ALA:HB3	1.89	0.55
18:b:867:VAL:O	18:b:869:SER:N	2.33	0.55
18:b:1085:LYS:O	18:b:1086:HIS:CG	2.59	0.55
23:g:146:LEU:HB3	23:g:162:ALA:HB1	1.88	0.55
26:j:37:LYS:C	26:j:38:LEU:HD12	2.32	0.55
1:F:209:SER:HA	1:F:212:ALA:HB2	1.86	0.55
4:R:114:GLU:C	4:R:117:GLY:H	2.14	0.55
5:T:38:VAL:CG1	19:c:93:ASP:OD2	2.54	0.55
12:3:99:GLU:O	12:3:103:GLU:N	2.33	0.55
17:a:37:ILE:O	17:a:37:ILE:HG22	2.07	0.55
17:a:132:ASP:HB3	17:a:133:PRO:HD2	1.88	0.55
17:a:594:LEU:O	17:a:612:LEU:HA	2.07	0.55
17:a:605:ASN:HB2	17:a:606:PRO:O	2.06	0.55
17:a:1170:LYS:N	17:a:1170:LYS:CD	2.69	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:281:ARG:HG3	25:i:6:TYR:CD2	2.40	0.55
18:b:845:TYR:CD2	18:b:956:ARG:HD3	2.40	0.55
20:d:25:LEU:N	23:g:3:PHE:O	2.39	0.55
24:h:7:LEU:HD21	24:h:110:LYS:HZ3	1.71	0.55
24:h:36:MET:O	24:h:37:ASN:O	2.24	0.55
27:k:91:LYS:HA	27:k:94:ILE:HD11	1.86	0.55
4:R:39:TYR:CD2	4:R:113:VAL:HG21	2.42	0.55
4:R:65:HIS:CE1	4:R:72:TRP:HB3	2.41	0.55
4:R:139:ARG:O	4:R:168:HIS:HB3	2.06	0.55
8:N:399:ARG:CD	8:N:408:SER:HG	2.18	0.55
10:G:12:ALA:HB1	10:G:15:PRO:HA	1.88	0.55
17:a:16:VAL:HG23	18:b:1182:VAL:HG22	1.87	0.55
17:a:395:GLN:NE2	17:a:431:PRO:O	2.40	0.55
17:a:781:ILE:HG22	17:a:803:ARG:HB3	1.89	0.55
17:a:946:CYS:CB	17:a:949:ILE:CD1	2.62	0.55
17:a:1261:GLU:O	17:a:1263:ASP:HB2	2.06	0.55
17:a:1496:PHE:HD2	20:d:33:LEU:HD11	1.71	0.55
18:b:243:LEU:O	18:b:254:THR:O	2.25	0.55
19:c:215:ARG:O	19:c:216:GLU:HB2	2.06	0.55
27:k:82:PRO:CA	27:k:85:VAL:HG23	2.37	0.55
1:F:84:ARG:NH1	2:H:80:LEU:O	2.39	0.55
2:H:133:LYS:NZ	6:K:45:ILE:O	2.34	0.55
4:R:106:ASN:ND2	5:T:73:MET:O	2.40	0.55
17:a:95:ILE:O	17:a:98:LEU:N	2.38	0.55
17:a:587:ILE:C	17:a:587:ILE:HD12	2.32	0.55
17:a:824:MET:HB2	18:b:500:LEU:HB3	1.87	0.55
17:a:927:VAL:O	17:a:929:ASP:N	2.40	0.55
17:a:969:ASN:HD22	17:a:969:ASN:N	2.02	0.55
17:a:1105:LYS:O	17:a:1109:ASN:ND2	2.39	0.55
17:a:1110:VAL:CG1	17:a:1387:LEU:HD13	2.25	0.55
17:a:1282:VAL:CG1	17:a:1282:VAL:O	2.51	0.55
17:a:1403:LEU:HB3	17:a:1432:GLU:CG	2.37	0.55
18:b:866:PRO:HG2	18:b:879:TYR:CE2	2.41	0.55
19:c:19:PHE:CZ	19:c:245:MET:HE3	2.42	0.55
23:g:51:ASP:O	23:g:52:SER:CB	2.55	0.55
23:g:97:LYS:HE3	23:g:124:PRO:HB3	1.89	0.55
28:l:31:ASN:O	28:l:32:THR:C	2.50	0.55
2:H:184:ALA:HB1	4:R:9:VAL:HG21	1.87	0.55
3:Q:528:GLN:HE22	8:N:550:THR:HG21	1.72	0.55
17:a:67:PHE:CD1	17:a:67:PHE:N	2.74	0.55
17:a:106:GLU:O	17:a:116:LYS:HD2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:336:LYS:HG3	17:a:1410:GLU:OE1	2.07	0.55
17:a:517:ILE:HG13	17:a:640:TRP:CD1	2.37	0.55
17:a:522:SER:O	17:a:524:LYS:HG2	2.06	0.55
17:a:776:VAL:O	17:a:777:GLU:C	2.49	0.55
17:a:918:GLU:O	17:a:981:PRO:HB2	2.07	0.55
17:a:945:LEU:O	17:a:949:ILE:CG2	2.52	0.55
17:a:1179:ILE:C	17:a:1181:ASP:H	2.14	0.55
18:b:105:ARG:HH12	18:b:777:ARG:CZ	2.20	0.55
18:b:538:ALA:HB3	18:b:539:PRO:CD	2.33	0.55
18:b:605:ILE:HD12	18:b:606:ARG:HG3	1.89	0.55
18:b:887:LEU:HD13	18:b:953:VAL:HG11	1.87	0.55
23:g:146:LEU:HD23	23:g:162:ALA:HB3	1.89	0.55
26:j:35:LEU:HD12	26:j:36:ASP:N	2.21	0.55
1:F:193:PRO:HA	1:F:194:GLU:HB3	1.88	0.55
2:H:58:HIS:CE1	2:H:62:ASN:HD21	2.25	0.55
17:a:10:SER:HB2	18:b:1168:TYR:OH	2.07	0.55
17:a:48:GLN:CB	17:a:50:PRO:HD3	2.36	0.55
17:a:181:THR:C	17:a:182:ILE:HG13	2.32	0.55
17:a:472:SER:OG	18:b:964:GLN:NE2	2.39	0.55
17:a:743:LEU:O	17:a:744:LYS:C	2.50	0.55
17:a:773:GLN:HE22	17:a:780:ARG:CB	2.14	0.55
17:a:1118:SER:C	17:a:1314:THR:HG22	2.29	0.55
17:a:1496:PHE:CD1	20:d:29:GLU:HG3	2.42	0.55
18:b:190:ILE:HD13	18:b:447:LEU:HD13	1.88	0.55
18:b:264:SER:H	18:b:322:LYS:HE3	1.72	0.55
18:b:841:ARG:CZ	19:c:64:HIS:ND1	2.70	0.55
21:e:79:GLU:HB2	21:e:86:GLU:OE1	2.06	0.55
23:g:147:LYS:HG3	23:g:169:LEU:HD21	1.88	0.55
8:N:399:ARG:CD	8:N:408:SER:OG	2.54	0.55
17:a:236:ARG:HD2	17:a:239:TRP:CH2	2.42	0.55
17:a:605:ASN:OD1	24:h:101:LEU:HB2	2.07	0.55
17:a:1064:GLY:HA3	17:a:1065:GLU:CB	2.36	0.55
17:a:1066:MET:HE3	17:a:1442:MET:HG3	1.89	0.55
17:a:1140:GLN:O	17:a:1280:ARG:CG	2.54	0.55
17:a:1263:ASP:O	17:a:1266:LEU:N	2.30	0.55
18:b:387:PHE:CD1	18:b:503:THR:HG22	2.42	0.55
18:b:428:PHE:C	18:b:429:ASN:CG	2.75	0.55
18:b:1095:ARG:CD	18:b:1096:ALA:N	2.69	0.55
20:d:86:HIS:O	20:d:88:PHE:N	2.40	0.55
23:g:46:ILE:O	23:g:47:ILE:C	2.48	0.55
24:h:37:ASN:C	24:h:37:ASN:OD1	2.49	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:i:33:ASP:O	25:i:34:TYR:C	2.49	0.55
1:F:68:SER:O	1:F:72:ARG:NE	2.40	0.55
8:N:423:GLU:HB2	8:N:436:VAL:HB	1.88	0.55
17:a:24:LEU:CD2	18:b:1201:ALA:HB2	2.37	0.55
17:a:88:LEU:CG	17:a:243:THR:O	2.54	0.55
17:a:90:LYS:HZ2	17:a:282:VAL:CG1	2.20	0.55
17:a:121:ASN:ND2	17:a:121:ASN:N	2.55	0.55
17:a:205:LYS:O	17:a:206:ARG:CB	2.55	0.55
17:a:551:ALA:HA	17:a:552:VAL:C	2.31	0.55
17:a:976:LEU:HD22	17:a:980:LYS:HG3	1.88	0.55
17:a:1085:ASN:C	17:a:1087:PHE:N	2.64	0.55
17:a:1371:TYR:CD1	17:a:1371:TYR:O	2.59	0.55
18:b:158:MET:HB2	18:b:188:PHE:CE1	2.42	0.55
18:b:402:LEU:CD1	18:b:452:TRP:CZ3	2.90	0.55
18:b:488:ILE:HD12	18:b:490:ARG:CG	2.36	0.55
18:b:1022:LYS:O	18:b:1025:ALA:N	2.39	0.55
21:e:14:ALA:CA	21:e:17:THR:HG22	2.33	0.55
21:e:45:HIS:HE1	21:e:57:LEU:HD12	1.71	0.55
24:h:57:LEU:C	24:h:57:LEU:CD1	2.77	0.55
25:i:6:TYR:O	25:i:14:LEU:CD1	2.55	0.55
25:i:37:ILE:CG2	25:i:38:ALA:N	2.69	0.55
3:Q:457:ASN:ND2	3:Q:479:SER:OG	2.40	0.54
8:N:175:ILE:HB	8:N:176:PRO:HA	1.88	0.54
8:N:396:GLU:OE2	8:N:410:HIS:NE2	2.40	0.54
17:a:69:CYS:SG	17:a:79:CYS:SG	3.06	0.54
17:a:116:LYS:HD3	17:a:116:LYS:N	2.14	0.54
17:a:255:SER:OG	17:a:256:ILE:N	2.39	0.54
17:a:350:ARG:HH11	18:b:1118:ARG:HB2	1.70	0.54
17:a:478:LEU:HD13	18:b:824:GLN:CD	2.33	0.54
17:a:488:PHE:O	18:b:978:THR:HG22	2.08	0.54
17:a:1146:LEU:HD13	17:a:1274:LEU:HD23	1.86	0.54
17:a:1169:ASP:O	17:a:1170:LYS:C	2.49	0.54
18:b:220:ALA:C	18:b:221:TYR:HD1	2.15	0.54
18:b:301:LYS:N	18:b:302:PRO:HD2	2.22	0.54
18:b:481:LEU:O	18:b:482:ARG:HG2	2.07	0.54
18:b:1073:GLN:OE1	18:b:1073:GLN:CA	2.53	0.54
18:b:1207:LYS:CG	18:b:1208:ASN:N	2.70	0.54
19:c:233:VAL:HG21	19:c:245:MET:CE	2.37	0.54
21:e:101:THR:CG2	21:e:126:THR:N	2.70	0.54
23:g:144:VAL:HG12	23:g:146:LEU:HD12	1.89	0.54
25:i:81:HIS:O	25:i:82:GLU:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:k:48:GLN:HG3	27:k:93:LEU:HD21	1.89	0.54
2:H:27:LEU:HA	2:H:30:PHE:HB3	1.89	0.54
3:Q:265:ALA:HA	3:Q:307:GLU:HG3	1.89	0.54
4:R:4:LEU:HA	4:R:95:GLY:O	2.07	0.54
4:R:125:ILE:O	4:R:143:THR:HA	2.07	0.54
5:T:27:ARG:HB2	5:T:104:GLU:H	1.73	0.54
8:N:417:ILE:HG12	8:N:472:TYR:HA	1.88	0.54
10:G:119:ASN:O	10:G:123:GLY:N	2.40	0.54
17:a:516:GLN:NE2	18:b:1130:HIS:NE2	2.55	0.54
17:a:972:GLN:HE21	17:a:973:ILE:HD13	1.71	0.54
17:a:1013:VAL:O	17:a:1017:ALA:HB2	2.06	0.54
17:a:1163:ASP:C	17:a:1164:THR:HG23	2.33	0.54
17:a:1387:LEU:HD12	17:a:1387:LEU:O	2.06	0.54
17:a:1461:LEU:HD12	17:a:1461:LEU:N	2.22	0.54
18:b:406:LEU:HD13	18:b:439:ILE:HG22	1.89	0.54
18:b:642:LYS:HE2	18:b:646:GLN:HE21	1.72	0.54
18:b:688:ALA:HB2	18:b:694:LEU:HD21	1.89	0.54
18:b:899:ILE:C	18:b:899:ILE:CD1	2.79	0.54
18:b:1095:ARG:CG	18:b:1096:ALA:N	2.70	0.54
20:d:85:PHE:CE1	20:d:115:ILE:HG13	2.42	0.54
21:e:64:SER:C	21:e:66:ASP:H	2.14	0.54
27:k:24:SER:HB3	27:k:25:LYS:O	2.07	0.54
1:F:52:LEU:HD22	1:F:55:GLN:OE1	2.07	0.54
17:a:30:ARG:CG	17:a:244:VAL:HG21	2.35	0.54
17:a:328:LEU:HD13	17:a:328:LEU:C	2.30	0.54
17:a:794:PRO:N	18:b:686:MET:HE1	2.22	0.54
17:a:863:ARG:NH2	21:e:165:LEU:HD21	2.22	0.54
17:a:1142:GLU:O	17:a:1144:THR:HG23	2.07	0.54
17:a:1142:GLU:C	17:a:1281:GLY:HA2	2.31	0.54
17:a:1459:TYR:O	17:a:1460:SER:C	2.50	0.54
18:b:82:ILE:HD11	18:b:115:LEU:HG	1.88	0.54
18:b:288:CYS:CB	18:b:297:LEU:HD21	2.27	0.54
18:b:298:GLU:C	18:b:300:MET:H	2.15	0.54
18:b:391:ARG:CG	18:b:618:ARG:HH21	2.20	0.54
18:b:647:GLN:HB3	18:b:663:PHE:HZ	1.72	0.54
19:c:103:LEU:N	19:c:158:CYS:O	2.36	0.54
23:g:6:LYS:HG2	23:g:7:GLU:H	1.71	0.54
23:g:90:ALA:O	23:g:143:ASN:HA	2.06	0.54
25:i:20:LYS:HZ3	25:i:21:VAL:CG2	2.20	0.54
2:H:6:THR:HG22	3:Q:156:PHE:HZ	1.73	0.54
3:Q:510:ARG:HD2	3:Q:519:GLN:HG3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:N:554:GLU:O	8:N:557:SER:OG	2.17	0.54
17:a:349:LYS:NZ	18:b:1187:ALA:HB3	2.22	0.54
17:a:550:ASN:O	17:a:551:ALA:CB	2.55	0.54
17:a:800:PRO:C	17:a:802:SER:N	2.62	0.54
17:a:812:ARG:N	17:a:813:GLY:CA	2.69	0.54
18:b:747:PHE:CE2	18:b:1016:VAL:HG11	2.42	0.54
18:b:791:PRO:O	18:b:793:ALA:N	2.41	0.54
18:b:972:ARG:NE	18:b:1080:TYR:CE2	2.75	0.54
18:b:1063:HIS:HD2	18:b:1065:HIS:H	1.54	0.54
19:c:221:ASN:ND2	19:c:224:GLU:HG3	2.22	0.54
20:d:33:LEU:O	20:d:37:VAL:HG23	2.07	0.54
23:g:128:PRO:O	23:g:129:PRO:C	2.49	0.54
24:h:89:GLU:HG3	24:h:90:LYS:H	1.72	0.54
25:i:101:TYR:CB	25:i:110:PHE:CE2	2.90	0.54
2:H:141:ARG:HA	7:V:36:LEU:HD13	1.89	0.54
5:T:40:GLN:H	5:T:90:TRP:H	1.54	0.54
16:J:15:UNK:O	16:J:19:UNK:N	2.40	0.54
17:a:126:ASP:C	17:a:130:TYR:CD2	2.85	0.54
17:a:178:ALA:C	17:a:179:GLN:CG	2.79	0.54
17:a:268:LEU:HD22	17:a:329:LYS:HB3	1.90	0.54
17:a:411:ILE:HG13	17:a:421:LEU:HD21	1.89	0.54
17:a:532:ASP:HB2	18:b:818:CYS:SG	2.47	0.54
17:a:873:ALA:HB3	17:a:876:GLU:N	2.22	0.54
17:a:1263:ASP:O	17:a:1264:VAL:C	2.51	0.54
17:a:1406:CYS:O	17:a:1411:THR:HG23	2.08	0.54
17:a:1450:TYR:HE2	22:f:125:ARG:CD	2.17	0.54
17:a:1496:PHE:CG	20:d:29:GLU:HG3	2.42	0.54
19:c:179:PHE:HA	19:c:230:TYR:O	2.07	0.54
6:K:21:VAL:HG13	7:V:78:LYS:HG2	1.88	0.54
17:a:180:PRO:CG	17:a:193:TRP:NE1	2.70	0.54
17:a:540:PHE:CD1	17:a:662:TRP:CD1	2.95	0.54
18:b:180:CYS:C	18:b:182:TYR:H	2.16	0.54
18:b:391:ARG:CZ	18:b:615:ASP:HB3	2.37	0.54
18:b:510:PRO:CG	18:b:739:GLY:H	2.21	0.54
19:c:254:GLU:O	19:c:258:VAL:HG23	2.07	0.54
20:d:57:LYS:HD3	23:g:106:PRO:HA	1.88	0.54
25:i:3:ASN:N	25:i:3:ASN:HD22	2.05	0.54
2:H:71:LEU:O	2:H:74:THR:OG1	2.20	0.54
3:Q:250:SER:OG	3:Q:252:SER:O	2.25	0.54
4:R:113:VAL:HA	4:R:116:MET:HE3	1.90	0.54
8:N:532:LEU:HB2	8:N:535:ALA:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:N:567:ILE:HA	8:N:570:PHE:HD2	1.72	0.54
8:N:573:GLN:HB3	8:N:850:ALA:HB3	1.90	0.54
17:a:94:HIS:O	17:a:95:ILE:C	2.50	0.54
17:a:356:ARG:NH2	17:a:492:GLU:HB2	2.23	0.54
17:a:382:TYR:CE2	17:a:440:ARG:NE	2.75	0.54
17:a:512:MET:O	17:a:513:VAL:C	2.50	0.54
17:a:640:TRP:N	17:a:641:LYS:O	2.35	0.54
18:b:32:ARG:HA	18:b:35:LEU:HD12	1.88	0.54
18:b:301:LYS:HB2	18:b:302:PRO:CD	2.38	0.54
18:b:847:THR:CG2	18:b:956:ARG:HG3	2.38	0.54
19:c:26:LEU:O	19:c:27:ALA:C	2.51	0.54
20:d:24:MET:HA	23:g:4:PHE:CD1	2.43	0.54
20:d:51:MET:O	20:d:55:MET:CB	2.56	0.54
3:Q:138:ILE:HG22	20:d:128:SER:C	2.23	0.54
17:a:101:ILE:HB	17:a:240:MET:SD	2.48	0.54
17:a:433:ARG:HH11	17:a:435:GLY:CA	2.19	0.54
17:a:747:ASN:O	17:a:748:ASN:C	2.51	0.54
17:a:1388:MET:HE2	17:a:1395:ILE:HD13	1.88	0.54
17:a:1390:ILE:HD13	17:a:1395:ILE:CG2	2.36	0.54
18:b:34:GLN:CB	18:b:35:LEU:HB2	2.36	0.54
18:b:819:TYR:CE2	18:b:989:PRO:HG3	2.43	0.54
19:c:34:ARG:NH1	27:k:39:HIS:HB2	2.21	0.54
19:c:194:PHE:O	19:c:201:GLU:HG3	2.08	0.54
21:e:150:LEU:O	21:e:151:LEU:HD23	2.07	0.54
23:g:154:ASP:O	23:g:155:ALA:HB3	2.08	0.54
24:h:33:GLN:O	24:h:35:ASP:N	2.41	0.54
27:k:76:THR:CA	27:k:77:VAL:HB	2.28	0.54
2:H:177:ARG:NH2	6:K:83:GLU:OE1	2.41	0.54
3:Q:451:SER:HB3	3:Q:485:MET:HB2	1.90	0.54
17:a:661:TYR:CE2	27:k:61:LYS:HD3	2.43	0.54
17:a:778:GLY:HA3	17:a:1091:GLY:O	2.08	0.54
17:a:885:GLU:O	17:a:886:TYR:C	2.50	0.54
17:a:1328:VAL:CG1	17:a:1329:ASP:HA	2.38	0.54
18:b:46:MET:O	18:b:49:ILE:HG12	2.08	0.54
18:b:550:GLU:HG2	18:b:576:HIS:HB2	1.90	0.54
18:b:661:GLN:O	18:b:663:PHE:N	2.41	0.54
19:c:68:MET:HB3	26:j:6:ARG:CD	2.27	0.54
21:e:89:THR:HG23	21:e:90:PHE:HD1	1.72	0.54
25:i:12:ASN:CG	25:i:13:MET:H	2.15	0.54
25:i:69:PRO:CG	25:i:85:PHE:CZ	2.91	0.54
27:k:36:LYS:HA	27:k:68:HIS:HD2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:l:43:GLU:C	28:l:44:CYS:SG	2.90	0.54
5:T:64:MET:SD	5:T:77:GLU:HG2	2.45	0.54
16:J:181:UNK:O	16:J:185:UNK:N	2.41	0.54
17:a:126:ASP:C	17:a:130:TYR:CE2	2.85	0.54
17:a:192:SER:HB2	17:a:201:ASP:C	2.32	0.54
17:a:592:ILE:C	17:a:593:ASN:HD22	2.16	0.54
17:a:855:MET:HE1	17:a:1441:PRO:O	2.08	0.54
17:a:923:ASN:C	17:a:925:SER:H	2.15	0.54
17:a:1153:THR:OG1	25:i:46:HIS:CB	2.53	0.54
17:a:1450:TYR:OH	22:f:125:ARG:NH1	2.41	0.54
18:b:436:SER:O	18:b:438:ILE:HD13	2.07	0.54
18:b:568:VAL:O	18:b:569:ASN:HB2	2.08	0.54
18:b:851:GLN:HG2	18:b:952:PHE:CD2	2.43	0.54
18:b:990:PHE:HD1	19:c:179:PHE:HE1	1.56	0.54
18:b:999:ILE:HD11	18:b:1081:TYR:CD2	2.43	0.54
18:b:1054:GLN:HB3	18:b:1056:ARG:CD	2.36	0.54
27:k:38:ASP:O	27:k:39:HIS:CG	2.61	0.54
2:H:75:SER:O	3:Q:157:SER:N	2.41	0.53
3:Q:529:TYR:CE2	3:Q:533:HIS:HE1	2.26	0.53
5:T:100:GLY:HA3	5:T:112:ILE:O	2.08	0.53
8:N:541:THR:HG22	8:N:867:ALA:HB3	1.90	0.53
12:3:59:GLU:O	12:3:60:PRO:CB	2.56	0.53
17:a:122:PRO:O	17:a:126:ASP:CG	2.51	0.53
17:a:332:ARG:NH1	17:a:332:ARG:HG2	2.24	0.53
17:a:480:VAL:HG12	17:a:484:TYR:HE2	1.73	0.53
17:a:510:ILE:HG13	17:a:511:THR:HG22	1.88	0.53
17:a:593:ASN:O	17:a:594:LEU:HD23	2.08	0.53
17:a:605:ASN:HB2	17:a:606:PRO:CA	2.37	0.53
17:a:668:PHE:CZ	17:a:752:MET:HE2	2.42	0.53
17:a:749:VAL:HG22	18:b:1007:PRO:HG3	1.91	0.53
17:a:889:PHE:CZ	17:a:1020:LEU:CD2	2.89	0.53
17:a:976:LEU:CD1	17:a:1041:ASN:ND2	2.72	0.53
17:a:1075:ILE:C	17:a:1078:PRO:CD	2.81	0.53
18:b:104:ALA:O	18:b:106:LEU:N	2.40	0.53
18:b:225:ILE:HG22	18:b:227:SER:H	1.72	0.53
18:b:476:SER:O	18:b:477:THR:C	2.52	0.53
18:b:1191:LEU:HD23	18:b:1191:LEU:C	2.33	0.53
23:g:14:LEU:CD2	23:g:27:LEU:HD21	2.29	0.53
23:g:93:THR:CG2	23:g:101:PHE:O	2.29	0.53
23:g:96:ASN:C	23:g:98:MET:N	2.62	0.53
23:g:100:PHE:HZ	23:g:131:TYR:CB	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:j:4:PRO:O	26:j:5:ILE:CG2	2.52	0.53
26:j:12:LYS:HE3	26:j:42:ARG:HH22	1.72	0.53
26:j:48:MET:CA	26:j:48:MET:HE3	2.38	0.53
1:F:122:TYR:OH	7:V:45:ASP:OD2	2.20	0.53
4:R:196:LEU:HA	4:R:199:PHE:CZ	2.43	0.53
5:T:37:TRP:HB2	5:T:53:LEU:HB3	1.88	0.53
5:T:112:ILE:HG23	5:T:126:PHE:HE1	1.72	0.53
8:N:473:PHE:O	8:N:477:GLN:HG3	2.06	0.53
17:a:51:ARG:NH1	17:a:57:ASP:OD1	2.30	0.53
17:a:61:GLY:O	17:a:62:THR:HB	2.08	0.53
17:a:386:VAL:CG2	17:a:436:TRP:CD1	2.91	0.53
17:a:408:ALA:HB1	17:a:439:GLU:O	2.08	0.53
17:a:541:SER:O	17:a:581:LYS:HE2	2.08	0.53
17:a:549:ARG:CZ	27:k:50:LEU:HD11	2.39	0.53
17:a:937:GLN:O	17:a:941:ASP:HB3	2.08	0.53
17:a:1127:ILE:O	17:a:1127:ILE:HG12	2.08	0.53
17:a:1406:CYS:CB	17:a:1411:THR:HG22	2.39	0.53
18:b:207:ILE:HD13	18:b:209:GLN:CB	2.36	0.53
18:b:216:PRO:N	18:b:217:SER:HB3	2.18	0.53
18:b:1021:SER:OG	18:b:1022:LYS:N	2.40	0.53
19:c:207:ASN:HD22	19:c:230:TYR:HB3	1.74	0.53
20:d:22:GLU:OE1	23:g:6:LYS:HB2	2.06	0.53
23:g:120:MET:HE1	23:g:138:ILE:CD1	2.27	0.53
25:i:4:PHE:CD1	25:i:27:LEU:HD22	2.43	0.53
2:H:127:ALA:HA	2:H:130:ALA:HB3	1.90	0.53
3:Q:285:TRP:CD2	3:Q:303:GLU:HG2	2.43	0.53
4:R:204:ASN:OD1	4:R:205:VAL:N	2.41	0.53
5:T:56:LEU:H	5:T:66:ALA:H	1.57	0.53
17:a:558:TRP:HH2	27:k:61:LYS:CE	2.20	0.53
17:a:781:ILE:CG1	17:a:821:PHE:CE1	2.83	0.53
17:a:1192:SER:N	17:a:1193:PRO:CD	2.57	0.53
17:a:1290:MET:HG3	17:a:1310:TRP:CE3	2.38	0.53
18:b:273:ARG:HH11	18:b:310:ILE:HD12	1.72	0.53
18:b:296:MET:SD	18:b:376:LEU:CD1	2.94	0.53
18:b:322:LYS:O	18:b:322:LYS:HG3	2.08	0.53
18:b:728:THR:HG23	18:b:729:HIS:N	2.23	0.53
18:b:973:HIS:HD2	18:b:1013:ALA:HB3	1.73	0.53
18:b:1180:SER:CB	18:b:1209:HIS:HD2	2.14	0.53
20:d:67:ARG:O	20:d:68:PHE:CD2	2.61	0.53
23:g:5:LEU:HD11	23:g:50:LEU:HD12	1.74	0.53
23:g:84:ARG:NE	23:g:150:GLY:HA2	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:i:71:SER:N	25:i:83:ALA:O	2.38	0.53
26:j:40:LEU:HD13	26:j:46:ARG:HB2	1.90	0.53
3:Q:465:ASP:OD1	3:Q:468:GLU:HG3	2.08	0.53
8:N:279:SER:O	8:N:282:THR:OG1	2.17	0.53
8:N:392:GLN:HG2	8:N:395:LEU:HD12	1.89	0.53
8:N:418:HIS:HA	8:N:419:VAL:C	2.33	0.53
17:a:85:HIS:CB	17:a:244:VAL:CG1	2.74	0.53
17:a:444:ASP:O	17:a:445:GLY:C	2.51	0.53
17:a:607:THR:HG23	17:a:607:THR:O	2.07	0.53
17:a:728:LEU:HB3	17:a:805:PHE:HE2	1.71	0.53
17:a:1066:MET:CE	17:a:1442:MET:HA	2.31	0.53
17:a:1144:THR:OG1	17:a:1279:LEU:HB2	2.08	0.53
17:a:1149:VAL:HG22	17:a:1200:LEU:HD23	1.91	0.53
17:a:1149:VAL:HG22	17:a:1200:LEU:CD2	2.38	0.53
18:b:24:PHE:O	18:b:28:THR:HB	2.09	0.53
18:b:211:PHE:HZ	18:b:384:ARG:NH1	2.06	0.53
18:b:715:ARG:HH11	18:b:715:ARG:CG	2.13	0.53
18:b:744:ILE:HA	18:b:798:MET:HE2	1.89	0.53
18:b:1061:MET:CE	18:b:1074:VAL:HG11	2.35	0.53
19:c:85:GLU:O	19:c:86:TYR:C	2.51	0.53
19:c:259:LEU:HD13	27:k:34:LEU:HD21	1.89	0.53
20:d:85:PHE:HZ	20:d:115:ILE:HG12	1.63	0.53
21:e:73:TYR:HE2	21:e:75:GLU:OE2	1.91	0.53
21:e:77:ALA:HB3	21:e:78:LYS:CA	2.38	0.53
25:i:78:CYS:O	25:i:79:HIS:CB	2.44	0.53
2:H:140:ALA:HB1	6:K:54:PHE:CD2	2.44	0.53
5:T:3:VAL:HG13	5:T:161:VAL:HG13	1.90	0.53
5:T:94:GLN:HB2	19:c:89:ASN:HA	1.90	0.53
8:N:216:GLN:HA	8:N:252:PHE:CZ	2.44	0.53
8:N:306:ARG:HG2	8:N:329:HIS:CE1	2.44	0.53
8:N:337:ILE:HB	8:N:340:PHE:CE2	2.43	0.53
17:a:2:SER:HB2	23:g:65:GLY:CA	2.36	0.53
17:a:8:PRO:HG2	18:b:1148:ARG:NE	2.24	0.53
17:a:177:ALA:HB1	17:a:179:GLN:HG3	1.80	0.53
17:a:310:MET:CE	18:b:1198:MET:HG2	2.38	0.53
17:a:355:ALA:CB	18:b:1093:HIS:O	2.57	0.53
17:a:548:THR:HG23	17:a:550:ASN:HB2	1.90	0.53
17:a:559:VAL:HG23	17:a:560:PRO:C	2.33	0.53
17:a:793:PHE:CZ	17:a:817:GLN:OE1	2.61	0.53
17:a:819:PHE:HB2	18:b:749:ASP:OD2	2.09	0.53
17:a:1146:LEU:HG	17:a:1274:LEU:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1158:ASP:HB3	17:a:1163:ASP:HB2	1.90	0.53
17:a:1167:GLU:O	17:a:1167:GLU:CD	2.51	0.53
18:b:610:LEU:O	18:b:610:LEU:HD23	2.09	0.53
18:b:1054:GLN:O	18:b:1056:ARG:N	2.39	0.53
22:f:72:THR:HG23	22:f:72:THR:O	2.09	0.53
8:N:202:THR:CG2	8:N:218:ILE:HD12	2.38	0.53
8:N:301:LYS:HD2	8:N:304:ARG:HE	1.74	0.53
8:N:417:ILE:HA	8:N:472:TYR:CD1	2.43	0.53
8:N:437:LEU:HB2	8:N:446:PRO:HB3	1.90	0.53
17:a:57:ASP:O	17:a:60:LEU:HG	2.09	0.53
17:a:193:TRP:HZ3	17:a:206:ARG:CG	2.21	0.53
17:a:382:TYR:N	17:a:383:PRO:HD3	2.24	0.53
17:a:452:ARG:NH1	17:a:486:ALA:CB	2.71	0.53
17:a:470:PRO:O	17:a:471:TYR:HB2	2.07	0.53
17:a:510:ILE:HG13	17:a:511:THR:N	2.24	0.53
17:a:816:PRO:HG2	18:b:689:MET:HE1	1.89	0.53
17:a:855:MET:HE2	17:a:1066:MET:SD	2.49	0.53
17:a:921:ILE:O	17:a:922:GLU:CD	2.51	0.53
17:a:1082:MET:CE	17:a:1364:PHE:O	2.31	0.53
18:b:576:HIS:CD2	18:b:576:HIS:C	2.87	0.53
18:b:685:VAL:CG1	18:b:728:THR:CG2	2.87	0.53
23:g:97:LYS:HE2	23:g:122:PHE:CD1	2.44	0.53
23:g:130:ASN:HB3	23:g:139:GLU:CG	2.35	0.53
3:Q:128:LEU:HD23	3:Q:138:ILE:HD11	1.90	0.53
3:Q:529:TYR:CZ	3:Q:533:HIS:HE1	2.26	0.53
4:R:39:TYR:HE1	4:R:120:PHE:HD1	1.55	0.53
4:R:67:GLU:HG3	4:R:68:THR:HG23	1.90	0.53
5:T:100:GLY:CA	5:T:113:ALA:HA	2.31	0.53
6:K:16:SER:N	6:K:19:GLN:OE1	2.41	0.53
8:N:192:THR:N	8:N:194:PRO:HG2	2.18	0.53
8:N:197:PHE:CE1	8:N:266:LEU:HD21	2.43	0.53
8:N:399:ARG:NE	8:N:408:SER:O	2.42	0.53
17:a:48:GLN:HG3	17:a:50:PRO:HD3	1.91	0.53
17:a:161:PHE:CD2	17:a:165:ASN:CG	2.86	0.53
17:a:761:PHE:HA	17:a:764:ILE:HD11	1.91	0.53
17:a:846:ARG:HG3	17:a:1390:ILE:CG2	2.35	0.53
17:a:856:VAL:HG11	17:a:874:TYR:HD1	1.74	0.53
17:a:918:GLU:HB2	17:a:981:PRO:HB2	1.90	0.53
17:a:1452:ASP:CG	22:f:123:LEU:HD11	2.28	0.53
18:b:620:CYS:O	18:b:621:ARG:HB2	2.08	0.53
18:b:747:PHE:N	18:b:747:PHE:CD1	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:c:135:LEU:HD22	19:c:141:ARG:C	2.34	0.53
20:d:15:LEU:O	20:d:16:GLY:C	2.51	0.53
25:i:64:THR:C	25:i:66:PRO:HD3	2.33	0.53
3:Q:250:SER:O	3:Q:252:SER:N	2.42	0.53
3:Q:480:ILE:HB	3:Q:497:HIS:HD2	1.74	0.53
4:R:52:PRO:HA	4:R:55:TRP:CD1	2.42	0.53
5:T:105:VAL:HB	5:T:108:PHE:O	2.08	0.53
17:a:332:ARG:HA	17:a:335:LEU:HG	1.91	0.53
17:a:388:PRO:CB	17:a:434:TYR:OH	2.56	0.53
17:a:879:LEU:CD1	17:a:960:PRO:CG	2.79	0.53
17:a:904:ARG:CG	17:a:937:GLN:HE22	2.21	0.53
17:a:1008:ARG:HG2	17:a:1011:ARG:HH12	1.73	0.53
17:a:1151:SER:H	17:a:1152:ALA:HA	1.74	0.53
17:a:1170:LYS:CE	17:a:1240:ILE:HD12	2.35	0.53
17:a:1425:ASP:C	17:a:1427:CYS:N	2.65	0.53
18:b:753:SER:O	18:b:756:ASN:HB2	2.08	0.53
19:c:65:ARG:NH1	19:c:145:ILE:HA	2.18	0.53
24:h:7:LEU:HD21	24:h:110:LYS:NZ	2.24	0.53
1:F:206:LEU:HD11	8:N:269:PHE:HB2	1.89	0.53
17:a:312:ASN:HD22	17:a:330:SER:HB3	1.65	0.53
17:a:871:GLN:OE1	17:a:875:GLY:HA2	2.08	0.53
17:a:904:ARG:HB2	17:a:937:GLN:OE1	2.09	0.53
17:a:982:THR:OG1	17:a:984:LEU:HB2	2.08	0.53
17:a:1269:ILE:O	17:a:1273:MET:HG2	2.09	0.53
18:b:50:VAL:HG23	18:b:51:ASP:OD1	2.09	0.53
18:b:591:ARG:HB3	18:b:672:GLY:HA3	1.91	0.53
20:d:85:PHE:C	20:d:86:HIS:CG	2.87	0.53
20:d:115:ILE:HG22	20:d:116:ASP:N	2.24	0.53
28:l:27:CYS:HG	28:l:44:CYS:HG	1.57	0.53
3:Q:271:LEU:HB2	3:Q:342:VAL:HB	1.90	0.53
5:T:35:LYS:C	5:T:54:GLU:HG2	2.34	0.53
10:G:331:ILE:O	10:G:335:LYS:N	2.38	0.53
17:a:30:ARG:HG2	17:a:244:VAL:HG11	1.89	0.53
17:a:42:THR:CB	17:a:55:LEU:HB2	2.39	0.53
17:a:50:PRO:O	17:a:51:ARG:CB	2.57	0.53
17:a:147:LYS:CG	17:a:148:MET:N	2.72	0.53
17:a:503:THR:C	17:a:505:ALA:N	2.64	0.53
17:a:792:HIS:CB	17:a:817:GLN:NE2	2.71	0.53
17:a:1263:ASP:O	17:a:1266:LEU:HB2	2.09	0.53
17:a:1290:MET:SD	17:a:1311:VAL:N	2.82	0.53
18:b:107:ARG:NH1	28:l:47:ARG:O	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:262:ILE:HG22	18:b:323:ARG:O	2.08	0.53
18:b:273:ARG:HD2	18:b:310:ILE:HG21	1.91	0.53
18:b:290:ASP:OD1	18:b:291:PRO:HD3	2.08	0.53
18:b:428:PHE:O	18:b:429:ASN:CG	2.52	0.53
18:b:610:LEU:HD23	18:b:612:LEU:HG	1.90	0.53
18:b:866:PRO:HG2	18:b:879:TYR:HE2	1.74	0.53
18:b:968:LYS:HD2	18:b:1086:HIS:CE1	2.44	0.53
19:c:188:GLN:C	19:c:190:THR:H	2.15	0.53
20:d:57:LYS:C	20:d:61:TYR:HD1	2.16	0.53
24:h:79:LYS:HE2	24:h:118:HIS:NE2	2.24	0.53
28:l:39:ILE:HD12	28:l:39:ILE:H	1.74	0.53
3:Q:221:SER:OG	3:Q:222:GLN:N	2.42	0.52
3:Q:268:ILE:HG22	3:Q:345:ILE:HG23	1.90	0.52
5:T:21:ALA:O	8:N:495:TYR:OH	2.27	0.52
5:T:93:ARG:CD	19:c:90:CYS:O	2.57	0.52
17:a:110:TRP:HH2	17:a:180:PRO:HG2	1.73	0.52
17:a:150:CYS:N	17:a:176:GLY:O	2.42	0.52
17:a:260:GLY:CA	18:b:924:ARG:HD3	2.38	0.52
17:a:537:VAL:HG12	17:a:538:ARG:N	2.23	0.52
17:a:1349:ALA:HA	21:e:144:LEU:O	2.09	0.52
18:b:294:PHE:O	18:b:298:GLU:N	2.33	0.52
18:b:364:LEU:HD23	18:b:367:MET:HE2	1.90	0.52
18:b:554:ASP:O	18:b:555:TYR:HB2	2.08	0.52
20:d:37:VAL:HA	20:d:40:GLN:OE1	2.08	0.52
20:d:84:ARG:CA	20:d:90:ARG:HD2	2.37	0.52
20:d:85:PHE:CE2	20:d:115:ILE:HG12	2.42	0.52
22:f:123:LEU:CD2	22:f:137:SER:CA	2.68	0.52
23:g:164:MET:HE1	23:g:170:GLY:H	1.73	0.52
1:F:37:PHE:O	1:F:40:SER:OG	2.19	0.52
2:H:73:THR:HB	3:Q:158:ARG:HD3	1.90	0.52
4:R:127:GLN:C	4:R:142:GLN:HB2	2.35	0.52
17:a:513:VAL:O	17:a:517:ILE:HG23	2.09	0.52
17:a:720:PHE:O	17:a:724:VAL:HG23	2.09	0.52
17:a:730:GLN:C	17:a:733:ASP:OD1	2.51	0.52
17:a:812:ARG:HB2	17:a:813:GLY:CA	2.38	0.52
17:a:975:HIS:CE1	17:a:977:GLU:HG2	2.44	0.52
17:a:1064:GLY:CA	17:a:1065:GLU:HB2	2.39	0.52
17:a:1140:GLN:NE2	17:a:1280:ARG:NH1	2.56	0.52
17:a:1155:ILE:O	25:i:43:VAL:HB	2.09	0.52
17:a:1480:GLU:HG2	17:a:1481:GLY:N	2.25	0.52
18:b:330:THR:O	18:b:334:ARG:CG	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:640:ILE:CD1	18:b:673:LEU:HD22	2.38	0.52
18:b:657:ILE:CD1	18:b:657:ILE:C	2.82	0.52
18:b:658:ASP:CB	18:b:659:PRO:CD	2.83	0.52
18:b:874:MET:HG2	18:b:879:TYR:OH	2.09	0.52
18:b:1208:ASN:C	18:b:1210:LYS:N	2.67	0.52
21:e:8:ILE:HG13	21:e:9:VAL:N	2.24	0.52
21:e:159:LEU:HD11	21:e:206:TYR:CD2	2.44	0.52
23:g:6:LYS:CG	23:g:7:GLU:N	2.72	0.52
23:g:14:LEU:CD1	23:g:27:LEU:HD23	2.39	0.52
23:g:144:VAL:CG1	23:g:164:MET:CE	2.86	0.52
24:h:79:LYS:HD3	24:h:81:TYR:CE2	2.38	0.52
1:F:84:ARG:HB2	1:F:88:LEU:HB3	1.92	0.52
3:Q:270:ILE:HB	3:Q:279:GLY:H	1.74	0.52
5:T:38:VAL:CG2	19:c:93:ASP:OD2	2.51	0.52
17:a:463:GLY:O	17:a:512:MET:SD	2.67	0.52
17:a:771:VAL:CG2	17:a:809:SER:HA	2.40	0.52
17:a:875:GLY:C	17:a:877:ASP:H	2.16	0.52
17:a:927:VAL:HG23	17:a:928:GLN:HG3	1.91	0.52
17:a:950:PHE:CE2	21:e:196:ARG:HA	2.44	0.52
17:a:1009:ILE:C	21:e:162:ARG:HH21	2.17	0.52
17:a:1075:ILE:HD13	17:a:1377:LEU:HD12	1.91	0.52
17:a:1194:TRP:CZ2	17:a:1262:GLU:CB	2.91	0.52
17:a:1347:ILE:O	17:a:1350:THR:HG23	2.08	0.52
17:a:1476:SER:O	17:a:1477:GLN:C	2.52	0.52
18:b:34:GLN:HB3	18:b:35:LEU:CB	2.35	0.52
18:b:386:HIS:CD2	18:b:388:GLY:CA	2.88	0.52
18:b:741:LEU:HD22	18:b:760:SER:CA	2.39	0.52
21:e:15:TRP:CD2	21:e:19:HIS:CE1	2.98	0.52
22:f:79:GLU:O	22:f:80:ARG:C	2.51	0.52
23:g:97:LYS:CA	23:g:131:TYR:OH	2.50	0.52
23:g:119:ASP:HB3	23:g:134:GLU:OE1	2.10	0.52
23:g:155:ALA:C	23:g:157:GLU:N	2.68	0.52
25:i:5:GLN:O	25:i:14:LEU:CG	2.56	0.52
25:i:86:TYR:CZ	25:i:100:ILE:HD11	2.45	0.52
27:k:83:LYS:O	27:k:87:VAL:HG23	2.10	0.52
8:N:245:ASN:HA	8:N:248:ILE:HD12	1.91	0.52
17:a:58:PRO:O	17:a:60:LEU:HG	2.08	0.52
17:a:115:LEU:CD2	17:a:227:HIS:CD2	2.92	0.52
17:a:118:ASP:N	17:a:118:ASP:OD1	2.41	0.52
17:a:214:HIS:HB2	17:a:241:ILE:CD1	2.35	0.52
17:a:411:ILE:HD12	17:a:425:LYS:NZ	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:433:ARG:HG2	17:a:434:TYR:H	1.73	0.52
17:a:717:ARG:HD3	17:a:717:ARG:C	2.34	0.52
17:a:1161:PRO:CG	17:a:1190:LYS:CB	2.84	0.52
17:a:1329:ASP:OD2	17:a:1331:THR:HG22	2.10	0.52
18:b:87:PRO:HG3	18:b:157:ILE:CD1	2.29	0.52
18:b:292:ASN:N	18:b:293:ASP:CB	2.55	0.52
18:b:625:ILE:HG22	18:b:729:HIS:CD2	2.45	0.52
18:b:972:ARG:HG2	18:b:1082:GLN:OE1	2.08	0.52
18:b:1207:LYS:C	18:b:1209:HIS:N	2.66	0.52
19:c:71:LEU:HD12	19:c:71:LEU:N	2.24	0.52
20:d:85:PHE:O	20:d:86:HIS:CD2	2.63	0.52
25:i:99:LEU:CD2	25:i:100:ILE:O	2.57	0.52
26:j:32:GLY:O	26:j:35:LEU:HG	2.08	0.52
27:k:57:PHE:HD2	27:k:73:ARG:HG2	1.74	0.52
3:Q:131:SER:HB3	3:Q:138:ILE:HB	1.90	0.52
4:R:24:LYS:O	6:K:92:LYS:NZ	2.42	0.52
8:N:330:ILE:HG12	8:N:360:VAL:HG22	1.90	0.52
8:N:399:ARG:HG3	8:N:408:SER:OG	2.09	0.52
17:a:266:ASP:CB	17:a:267:ASP:CB	2.54	0.52
17:a:1151:SER:O	17:a:1199:GLU:HB2	2.10	0.52
17:a:1163:ASP:O	17:a:1164:THR:CG2	2.57	0.52
17:a:1476:SER:O	17:a:1478:LEU:N	2.42	0.52
18:b:1111:ARG:C	18:b:1112:SER:OG	2.52	0.52
19:c:12:ILE:O	19:c:12:ILE:HD12	2.09	0.52
19:c:103:LEU:HD23	19:c:124:VAL:HA	1.92	0.52
21:e:22:VAL:HG12	21:e:23:HIS:ND1	2.25	0.52
25:i:99:LEU:C	25:i:99:LEU:CD2	2.82	0.52
3:Q:269:SER:HA	3:Q:280:SER:HA	1.91	0.52
17:a:33:SER:HB2	17:a:85:HIS:H	1.75	0.52
17:a:118:ASP:OD1	17:a:172:HIS:HB3	2.10	0.52
17:a:148:MET:CE	17:a:181:THR:OG1	2.48	0.52
17:a:236:ARG:CG	17:a:239:TRP:CZ3	2.92	0.52
17:a:646:GLU:N	17:a:649:LYS:H	2.07	0.52
17:a:710:PRO:HB3	17:a:716:LEU:HA	1.91	0.52
17:a:823:ALA:HA	18:b:753:SER:OG	2.10	0.52
17:a:996:LEU:HB2	17:a:1049:MET:CE	2.40	0.52
17:a:1276:SER:C	17:a:1277:ILE:HG12	2.25	0.52
17:a:1288:VAL:CG1	17:a:1289:TYR:N	2.73	0.52
17:a:1376:LEU:O	17:a:1376:LEU:HD23	2.09	0.52
17:a:1425:ASP:O	17:a:1427:CYS:N	2.43	0.52
18:b:323:ARG:HG3	18:b:337:TYR:HE2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:449:THR:HG23	18:b:451:ASN:H	1.75	0.52
18:b:823:ASN:O	18:b:1002:ASN:HB2	2.09	0.52
18:b:907:ILE:CD1	18:b:924:ARG:NE	2.72	0.52
18:b:1127:GLN:HA	18:b:1127:GLN:NE2	2.24	0.52
21:e:198:GLU:CB	21:e:199:THR:CA	2.86	0.52
24:h:10:ILE:HG13	24:h:10:ILE:O	2.09	0.52
26:j:45:CYS:O	26:j:48:MET:CB	2.57	0.52
1:F:56:SER:HB3	1:F:63:LEU:HD11	1.92	0.52
1:F:71:LYS:HG2	1:F:94:GLN:HE22	1.75	0.52
4:R:133:PHE:O	4:R:136:THR:OG1	2.20	0.52
6:K:16:SER:HA	6:K:20:GLN:HE22	1.75	0.52
17:a:194:LYS:HA	17:a:200:SER:HB3	1.91	0.52
17:a:360:THR:HB	17:a:475:ARG:HD3	1.91	0.52
17:a:1164:THR:O	17:a:1165:VAL:HB	2.08	0.52
17:a:1191:GLN:OE1	17:a:1192:SER:N	2.42	0.52
17:a:1290:MET:SD	17:a:1312:LEU:HD23	2.50	0.52
18:b:747:PHE:CD1	18:b:1033:ALA:HB1	2.45	0.52
18:b:930:LEU:HD23	18:b:930:LEU:C	2.35	0.52
18:b:987:ASP:OD1	19:c:34:ARG:NH2	2.42	0.52
18:b:1205:PHE:CD2	18:b:1210:LYS:CA	2.91	0.52
19:c:168:HIS:CD2	19:c:170:LYS:HB2	2.45	0.52
21:e:170:LEU:HD22	21:e:171:PRO:HD2	1.90	0.52
21:e:195:ARG:C	21:e:197:SER:N	2.67	0.52
1:F:55:GLN:NE2	1:F:62:ASP:O	2.43	0.52
3:Q:246:MET:HA	3:Q:253:PHE:HB3	1.92	0.52
5:T:4:HIS:CE1	5:T:174:ASP:HA	2.44	0.52
5:T:4:HIS:HE1	5:T:174:ASP:HA	1.74	0.52
5:T:26:VAL:HG13	5:T:103:TYR:CD1	2.44	0.52
5:T:94:GLN:CB	19:c:89:ASN:O	2.57	0.52
8:N:202:THR:OG1	8:N:218:ILE:CD1	2.58	0.52
17:a:15:ARG:HD3	17:a:1438:GLN:HG2	1.91	0.52
17:a:520:PRO:HG3	17:a:882:THR:HB	1.92	0.52
17:a:521:GLN:OE1	17:a:1077:GLU:OE1	2.27	0.52
17:a:553:MET:O	17:a:554:ASN:C	2.52	0.52
17:a:1075:ILE:C	17:a:1078:PRO:CG	2.83	0.52
17:a:1480:GLU:OE1	20:d:44:GLU:HG2	2.07	0.52
18:b:35:LEU:O	18:b:35:LEU:HD13	2.10	0.52
18:b:418:MET:HE1	18:b:429:ASN:OD1	2.10	0.52
18:b:528:MET:HE3	18:b:736:MET:HG3	1.92	0.52
18:b:775:GLN:HE22	19:c:56:VAL:HG13	1.74	0.52
18:b:1036:PHE:N	18:b:1036:PHE:CD1	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:d:84:ARG:O	20:d:85:PHE:CB	2.58	0.52
26:j:59:LEU:O	26:j:59:LEU:HD23	2.09	0.52
1:F:109:PHE:CZ	1:F:116:TYR:HB2	2.45	0.52
2:H:137:TRP:CE2	6:K:45:ILE:HB	2.45	0.52
6:K:43:GLU:HG3	6:K:47:LEU:HB3	1.92	0.52
8:N:176:PRO:HD2	8:N:179:PHE:HE2	1.74	0.52
17:a:51:ARG:HD2	17:a:57:ASP:OD1	2.10	0.52
17:a:183:ARG:NH2	17:a:203:PRO:HB2	2.24	0.52
17:a:244:VAL:CG1	17:a:244:VAL:O	2.56	0.52
17:a:640:TRP:N	17:a:641:LYS:C	2.68	0.52
17:a:916:TYR:CE1	17:a:1039:ARG:NH2	2.78	0.52
17:a:1177:PHE:CD2	17:a:1230:ILE:CG2	2.93	0.52
17:a:1430:ILE:O	17:a:1434:ILE:HG12	2.10	0.52
18:b:144:ASP:O	18:b:146:GLU:N	2.43	0.52
18:b:435:LYS:HB3	18:b:438:ILE:HG22	1.92	0.52
18:b:544:LEU:HD21	18:b:566:VAL:HG11	1.92	0.52
19:c:207:ASN:HD22	19:c:230:TYR:CB	2.23	0.52
20:d:88:PHE:HZ	23:g:86:GLU:HG2	1.72	0.52
21:e:21:LEU:HD21	21:e:25:ARG:NE	2.21	0.52
1:F:197:SER:H	1:F:199:VAL:HG23	1.75	0.52
3:Q:478:LEU:O	3:Q:499:PRO:HD2	2.10	0.52
4:R:39:TYR:HD1	4:R:120:PHE:HA	1.75	0.52
6:K:63:GLU:OE1	6:K:63:GLU:N	2.41	0.52
17:a:15:ARG:HH11	17:a:1438:GLN:HE22	1.51	0.52
17:a:23:ILE:O	17:a:24:LEU:C	2.52	0.52
17:a:48:GLN:HB2	17:a:50:PRO:HD3	1.92	0.52
17:a:55:LEU:CD1	17:a:56:LEU:N	2.73	0.52
17:a:118:ASP:CG	17:a:120:SER:HG	2.18	0.52
17:a:512:MET:C	17:a:514:PRO:N	2.68	0.52
17:a:538:ARG:O	17:a:540:PHE:N	2.41	0.52
17:a:1219:ILE:HG23	17:a:1273:MET:HE1	1.92	0.52
17:a:1461:LEU:H	17:a:1461:LEU:CD1	2.22	0.52
18:b:402:LEU:HD13	18:b:452:TRP:HZ3	1.72	0.52
19:c:79:PRO:CB	19:c:80:PRO:HA	2.40	0.52
19:c:168:HIS:CD2	19:c:170:LYS:HB3	2.46	0.52
20:d:10:ALA:HB1	23:g:85:GLY:CA	2.31	0.52
21:e:67:SER:C	21:e:69:LYS:H	2.18	0.52
21:e:139:ILE:HG12	21:e:140:THR:N	2.25	0.52
24:h:38:LEU:HD22	24:h:39:THR:N	2.25	0.52
27:k:24:SER:HB3	27:k:25:LYS:CB	2.35	0.52
28:l:21:ILE:CG2	28:l:30:ARG:HG3	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:98:ASN:HB2	1:F:101:GLU:H	1.74	0.51
4:R:52:PRO:O	4:R:57:ARG:NH1	2.35	0.51
4:R:53:ASP:OD1	4:R:54:SER:N	2.43	0.51
8:N:362:TRP:HB3	8:N:369:GLU:H	1.75	0.51
17:a:133:PRO:O	17:a:134:LYS:HB3	2.09	0.51
17:a:149:VAL:HG12	17:a:150:CYS:N	2.25	0.51
17:a:236:ARG:O	17:a:237:PRO:C	2.51	0.51
17:a:311:ASP:HB2	17:a:314:ILE:HG13	1.85	0.51
17:a:390:ASN:O	17:a:391:ILE:C	2.52	0.51
17:a:431:PRO:O	17:a:432:LEU:CB	2.58	0.51
17:a:569:PRO:HG3	17:a:578:TRP:CZ2	2.45	0.51
17:a:594:LEU:HB2	17:a:613:ILE:HG12	1.92	0.51
17:a:950:PHE:HE2	21:e:196:ARG:HA	1.74	0.51
17:a:1164:THR:OG1	17:a:1165:VAL:N	2.43	0.51
17:a:1290:MET:SD	17:a:1310:TRP:HB3	2.50	0.51
18:b:190:ILE:CD1	18:b:447:LEU:HB3	2.40	0.51
18:b:204:ALA:O	18:b:205:ALA:CB	2.59	0.51
18:b:294:PHE:O	18:b:298:GLU:HG3	2.10	0.51
18:b:343:GLN:O	18:b:344:LYS:CB	2.58	0.51
18:b:391:ARG:HH12	18:b:615:ASP:HB3	1.73	0.51
18:b:660:GLU:C	18:b:661:GLN:HG2	2.34	0.51
18:b:767:MET:HE3	18:b:783:ASN:CG	2.34	0.51
18:b:840:PHE:N	18:b:840:PHE:CD1	2.78	0.51
18:b:1017:GLU:OE2	18:b:1080:TYR:CE1	2.63	0.51
18:b:1056:ARG:NH1	19:c:201:GLU:HB3	2.25	0.51
18:b:1207:LYS:HG2	18:b:1208:ASN:N	2.19	0.51
21:e:54:ARG:O	21:e:55:THR:HB	2.09	0.51
21:e:132:GLU:O	21:e:133:SER:C	2.52	0.51
25:i:55:ASN:O	25:i:57:THR:N	2.43	0.51
27:k:91:LYS:O	27:k:95:THR:HG22	2.11	0.51
1:F:45:HIS:HA	1:F:50:GLU:HG2	1.92	0.51
3:Q:138:ILE:CG2	20:d:129:THR:N	2.72	0.51
3:Q:234:LEU:HB3	6:K:100:LEU:HB2	1.92	0.51
6:K:105:PHE:O	6:K:108:SER:OG	2.16	0.51
7:V:26:LEU:HA	7:V:29:LEU:HD12	1.92	0.51
17:a:42:THR:HG22	17:a:55:LEU:HG	1.89	0.51
17:a:322:GLN:CD	17:a:328:LEU:HD23	2.35	0.51
17:a:1166:ILE:HA	17:a:1167:GLU:HB3	0.63	0.51
17:a:1290:MET:O	17:a:1291:MET:SD	2.68	0.51
18:b:758:TYR:C	18:b:760:SER:H	2.18	0.51
18:b:899:ILE:HG22	18:b:929:PRO:HA	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:1063:HIS:CD2	18:b:1065:HIS:H	2.27	0.51
18:b:1124:ARG:O	18:b:1128:ILE:HG13	2.09	0.51
19:c:45:ILE:HD11	19:c:66:LEU:O	2.10	0.51
19:c:84:LEU:HD22	19:c:84:LEU:H	1.74	0.51
19:c:221:ASN:HD22	19:c:224:GLU:HG3	1.76	0.51
20:d:25:LEU:HD12	23:g:5:LEU:N	2.26	0.51
25:i:96:MET:SD	25:i:96:MET:N	2.79	0.51
1:F:59:ASN:O	1:F:61:LEU:N	2.43	0.51
1:F:84:ARG:HG3	1:F:88:LEU:HD23	1.92	0.51
5:T:93:ARG:NE	19:c:93:ASP:OD1	2.43	0.51
6:K:21:VAL:O	6:K:25:LEU:HG	2.11	0.51
8:N:289:SER:HB2	8:N:290:TRP:CD1	2.45	0.51
12:3:79:LYS:O	12:3:81:PRO:N	2.44	0.51
12:3:100:ILE:O	12:3:104:TRP:N	2.44	0.51
17:a:152:THR:O	17:a:174:GLY:HA2	2.11	0.51
17:a:342:LEU:CD1	17:a:1409:GLU:OE2	2.59	0.51
17:a:525:PRO:CD	17:a:637:HIS:ND1	2.57	0.51
17:a:1070:LEU:HD12	17:a:1070:LEU:C	2.34	0.51
17:a:1101:VAL:C	17:a:1103:ARG:N	2.69	0.51
18:b:732:ILE:HG13	18:b:733:HIS:H	1.74	0.51
18:b:867:VAL:O	18:b:867:VAL:HG13	2.10	0.51
21:e:71:THR:HG23	21:e:99:HIS:CD2	2.45	0.51
23:g:79:LEU:CD1	23:g:81:ARG:HH21	2.21	0.51
23:g:147:LYS:HZ2	23:g:166:GLU:HB3	1.75	0.51
25:i:20:LYS:HZ3	25:i:21:VAL:HG23	1.75	0.51
27:k:59:GLY:HA3	27:k:73:ARG:H	1.75	0.51
1:F:163:ASP:HA	1:F:164:ASN:C	2.35	0.51
3:Q:392:ILE:O	3:Q:396:LEU:HG	2.10	0.51
3:Q:392:ILE:HD13	3:Q:395:ILE:HD12	1.92	0.51
3:Q:439:LEU:HG	3:Q:443:ARG:HE	1.75	0.51
5:T:8:TYR:HA	5:T:125:LEU:HD23	1.93	0.51
17:a:115:LEU:HD11	17:a:224:ASP:HB3	1.92	0.51
17:a:254:PRO:CG	17:a:266:ASP:CG	2.73	0.51
17:a:449:ILE:HG12	17:a:496:HIS:O	2.11	0.51
17:a:498:PRO:C	17:a:499:GLN:HE21	2.19	0.51
17:a:537:VAL:HG11	17:a:623:VAL:HG12	1.92	0.51
17:a:701:GLN:O	17:a:705:HIS:HD2	1.94	0.51
17:a:918:GLU:HB2	17:a:981:PRO:CB	2.40	0.51
17:a:1101:VAL:O	17:a:1104:LEU:N	2.43	0.51
18:b:525:LEU:HB3	18:b:529:SER:OG	2.11	0.51
18:b:876:HIS:O	18:b:877:GLY:O	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:1088:VAL:C	18:b:1090:ASP:H	2.19	0.51
19:c:168:HIS:C	19:c:170:LYS:N	2.68	0.51
22:f:61:GLY:HA2	22:f:131:GLY:O	2.09	0.51
23:g:90:ALA:O	23:g:143:ASN:CB	2.58	0.51
23:g:147:LYS:HD2	23:g:166:GLU:HB2	1.93	0.51
23:g:150:GLY:C	23:g:160:ALA:HB1	2.33	0.51
24:h:62:ASN:CB	24:h:63:LEU:HB2	2.24	0.51
25:i:25:LEU:CD1	25:i:38:ALA:HB1	2.39	0.51
25:i:72:ASP:HA	25:i:81:HIS:CE1	2.46	0.51
25:i:73:LYS:O	25:i:74:GLU:CB	2.48	0.51
2:H:89:PRO:O	2:H:92:THR:OG1	2.17	0.51
2:H:200:ARG:HH21	4:R:122:HIS:HA	1.75	0.51
4:R:38:VAL:O	4:R:121:SER:HB3	2.10	0.51
17:a:254:PRO:HG2	17:a:266:ASP:OD2	2.11	0.51
17:a:419:ILE:HG22	17:a:425:LYS:HD3	1.92	0.51
17:a:802:SER:OG	17:a:803:ARG:N	2.41	0.51
17:a:810:TYR:CD2	18:b:751:ASN:O	2.63	0.51
17:a:970:ALA:C	17:a:972:GLN:H	2.19	0.51
17:a:1071:ALA:HB1	17:a:1373:HIS:CD2	2.42	0.51
17:a:1131:MET:HE3	17:a:1135:LYS:CE	2.41	0.51
18:b:194:GLU:CB	18:b:469:LEU:HB2	2.41	0.51
18:b:287:ILE:HD11	18:b:368:ILE:CD1	2.36	0.51
18:b:401:SER:HA	18:b:404:ARG:HH11	1.74	0.51
19:c:48:VAL:O	28:l:60:PHE:HB2	2.10	0.51
19:c:164:ILE:HD11	27:k:10:ILE:HD13	1.92	0.51
20:d:10:ALA:CA	23:g:84:ARG:O	2.58	0.51
21:e:128:GLU:CB	21:e:129:THR:HB	2.40	0.51
24:h:59:ILE:CD1	24:h:113:ARG:HH22	2.23	0.51
25:i:101:TYR:CG	25:i:110:PHE:CE2	2.98	0.51
26:j:48:MET:HE3	26:j:48:MET:HA	1.92	0.51
1:F:51:MET:O	1:F:54:MET:HB2	2.10	0.51
1:F:121:ALA:HA	2:H:76:ILE:HD11	1.91	0.51
1:F:147:PRO:HB3	1:F:157:TYR:CE1	2.46	0.51
5:T:38:VAL:HA	5:T:51:LYS:HB3	1.92	0.51
5:T:58:GLN:NE2	5:T:178:LEU:HB2	2.26	0.51
7:V:75:ARG:HA	7:V:78:LYS:HD2	1.92	0.51
8:N:447:PRO:HG2	8:N:449:HIS:CD2	2.45	0.51
13:2:3:LEU:O	13:2:7:ARG:N	2.43	0.51
17:a:95:ILE:CB	17:a:314:ILE:HD13	2.38	0.51
17:a:117:ILE:O	17:a:172:HIS:HB3	2.10	0.51
17:a:385:THR:HG23	17:a:437:ARG:HG3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:678:ASP:HB3	17:a:681:THR:HG1	1.76	0.51
17:a:839:GLU:HA	17:a:842:TYR:CD2	2.43	0.51
17:a:1104:LEU:CD1	17:a:1108:LEU:CD1	2.88	0.51
17:a:1160:ASP:C	17:a:1162:GLN:H	2.18	0.51
17:a:1348:GLU:CG	21:e:193:ILE:HD12	2.39	0.51
17:a:1450:TYR:C	17:a:1451:LEU:CG	2.83	0.51
17:a:1489:SER:HB3	17:a:1490:PRO:HD2	1.79	0.51
18:b:297:LEU:O	18:b:300:MET:HG2	2.11	0.51
18:b:485:ASN:O	18:b:486:THR:HB	2.10	0.51
18:b:568:VAL:O	18:b:568:VAL:HG12	2.11	0.51
18:b:696:ALA:O	18:b:700:MET:HG2	2.11	0.51
18:b:847:THR:HG23	18:b:956:ARG:HG3	1.93	0.51
18:b:973:HIS:CD2	18:b:1013:ALA:HB3	2.45	0.51
18:b:1001:ILE:HD12	18:b:1001:ILE:C	2.36	0.51
21:e:74:ILE:HA	21:e:103:ILE:CG1	2.41	0.51
21:e:175:LEU:C	21:e:177:ASP:H	2.19	0.51
23:g:84:ARG:HA	23:g:148:ILE:CG2	2.40	0.51
1:F:80:ILE:HG12	1:F:91:ILE:HG12	1.92	0.51
1:F:93:LYS:N	1:F:106:THR:O	2.30	0.51
5:T:17:PHE:HE1	19:c:264:ASP:HB3	1.75	0.51
5:T:42:LYS:HB3	5:T:45:ARG:NE	2.20	0.51
7:V:18:ASN:HA	7:V:21:ILE:HD12	1.93	0.51
8:N:333:ASN:O	8:N:357:LEU:N	2.44	0.51
17:a:91:PRO:CB	17:a:210:PRO:HG2	2.41	0.51
17:a:157:GLY:O	17:a:168:ALA:HA	2.10	0.51
17:a:214:HIS:O	17:a:218:THR:HG23	2.10	0.51
18:b:41:PHE:HD2	18:b:42:VAL:HG23	1.76	0.51
18:b:480:HIS:C	18:b:482:ARG:H	2.19	0.51
18:b:659:PRO:CB	18:b:661:GLN:CG	2.70	0.51
26:j:52:HIS:CD2	26:j:53:VAL:N	2.78	0.51
27:k:78:GLU:O	27:k:79:ASP:HB3	2.11	0.51
28:l:55:LYS:CB	28:l:56:ARG:HA	2.31	0.51
2:H:44:PRO:HB3	7:V:65:ARG:HH22	1.76	0.51
4:R:147:SER:HA	4:R:157:HIS:NE2	2.26	0.51
8:N:262:ILE:O	8:N:266:LEU:HG	2.10	0.51
8:N:283:PHE:HA	8:N:286:SER:OG	2.11	0.51
8:N:416:LYS:HB3	8:N:418:HIS:CE1	2.46	0.51
8:N:423:GLU:N	8:N:436:VAL:O	2.44	0.51
17:a:110:TRP:CZ2	17:a:180:PRO:CG	2.94	0.51
17:a:311:ASP:OD1	17:a:332:ARG:HD3	2.11	0.51
17:a:480:VAL:HG12	17:a:484:TYR:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:792:HIS:HB3	17:a:817:GLN:NE2	2.26	0.51
17:a:855:MET:HG3	17:a:1066:MET:N	2.26	0.51
17:a:947:LYS:HD2	17:a:947:LYS:N	2.26	0.51
17:a:1259:MET:O	17:a:1259:MET:HG3	2.10	0.51
18:b:238:SER:O	18:b:239:MET:HG2	2.10	0.51
18:b:498:ARG:O	18:b:499:GLN:C	2.53	0.51
18:b:552:LEU:H	18:b:552:LEU:HD22	1.75	0.51
18:b:686:MET:C	18:b:728:THR:HG22	2.35	0.51
20:d:24:MET:CE	20:d:88:PHE:HD1	2.21	0.51
23:g:19:PHE:O	23:g:20:GLY:C	2.54	0.51
25:i:5:GLN:C	25:i:14:LEU:CD1	2.80	0.51
25:i:12:ASN:CG	25:i:13:MET:N	2.67	0.51
26:j:30:THR:HB	26:j:34:ALA:HB2	1.93	0.51
3:Q:138:ILE:HG21	20:d:129:THR:HA	1.80	0.51
4:R:51:GLN:O	4:R:54:SER:OG	2.20	0.51
5:T:8:TYR:HE1	5:T:122:LYS:HG3	1.75	0.51
8:N:312:GLN:HG3	8:N:431:VAL:HG21	1.93	0.51
8:N:425:ILE:O	8:N:434:ARG:N	2.44	0.51
17:a:82:HIS:H	17:a:249:PRO:HB3	1.76	0.51
17:a:89:ALA:O	17:a:90:LYS:HG2	2.10	0.51
17:a:94:HIS:NE2	17:a:97:PHE:CD1	2.79	0.51
17:a:428:GLY:O	17:a:430:ILE:N	2.43	0.51
17:a:605:ASN:N	17:a:605:ASN:ND2	2.59	0.51
17:a:1006:SER:HA	17:a:1007:ASP:O	2.11	0.51
17:a:1485:PRO:O	17:a:1486:TYR:CD1	2.63	0.51
18:b:30:LEU:HD23	18:b:482:ARG:HH22	1.76	0.51
18:b:190:ILE:HD13	18:b:447:LEU:HB3	1.92	0.51
18:b:208:VAL:HG12	18:b:208:VAL:O	2.11	0.51
18:b:212:LYS:NZ	18:b:381:PRO:HG3	2.26	0.51
18:b:215:ALA:C	18:b:217:SER:CA	2.83	0.51
18:b:233:SER:O	18:b:234:ARG:C	2.54	0.51
18:b:342:LEU:HA	18:b:346:LEU:HB2	1.93	0.51
18:b:532:SER:HB3	18:b:617:GLY:H	1.75	0.51
18:b:601:ILE:C	18:b:601:ILE:HD12	2.36	0.51
18:b:816:ILE:HG23	18:b:1001:ILE:CD1	2.41	0.51
18:b:990:PHE:CD1	19:c:179:PHE:HE1	2.29	0.51
18:b:1145:ASP:O	18:b:1146:ALA:C	2.52	0.51
19:c:95:TYR:HE1	19:c:161:LYS:HE2	1.76	0.51
21:e:198:GLU:N	21:e:199:THR:HA	2.25	0.51
22:f:109:GLN:HA	22:f:112:MET:HE2	1.91	0.51
25:i:39:ALA:C	25:i:40:THR:CG2	2.83	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:286:PRO:N	6:K:107:GLN:HE21	2.09	0.51
5:T:55:PHE:HB3	5:T:65:LEU:HB3	1.93	0.51
8:N:196:GLU:HB2	8:N:225:HIS:NE2	2.26	0.51
17:a:55:LEU:C	17:a:55:LEU:CD1	2.80	0.51
17:a:62:THR:CG2	17:a:75:THR:CG2	2.60	0.51
17:a:81:GLY:CA	17:a:249:PRO:HB2	2.40	0.51
17:a:86:ILE:O	17:a:86:ILE:CG2	2.52	0.51
17:a:87:GLU:O	17:a:88:LEU:CB	2.59	0.51
17:a:94:HIS:O	17:a:98:LEU:N	2.43	0.51
17:a:106:GLU:HB2	17:a:144:CYS:HB3	1.92	0.51
17:a:338:LYS:HD3	17:a:339:GLU:H	1.75	0.51
17:a:388:PRO:HB3	17:a:434:TYR:CE1	2.45	0.51
17:a:1066:MET:HE1	17:a:1442:MET:CB	2.40	0.51
17:a:1114:ILE:O	17:a:1116:THR:N	2.44	0.51
17:a:1412:VAL:O	17:a:1414:ILE:N	2.43	0.51
18:b:686:MET:HE2	18:b:724:VAL:CG2	2.41	0.51
18:b:1066:THR:HG23	18:b:1068:ARG:H	1.76	0.51
19:c:140:SER:O	19:c:141:ARG:CG	2.48	0.51
19:c:218:GLU:HB3	19:c:219:PRO:C	2.36	0.51
20:d:117:ASP:O	20:d:119:ASN:N	2.44	0.51
22:f:65:ALA:C	22:f:67:GLU:N	2.69	0.51
25:i:20:LYS:CE	25:i:21:VAL:HG23	2.38	0.51
1:F:133:THR:HA	1:F:136:PHE:CD2	2.46	0.50
3:Q:188:PHE:CE1	6:K:36:SER:HA	2.46	0.50
8:N:557:SER:O	8:N:560:SER:OG	2.26	0.50
17:a:59:ARG:H	17:a:60:LEU:CG	2.24	0.50
17:a:134:LYS:HG2	17:a:134:LYS:O	2.11	0.50
17:a:853:ASP:HB3	17:a:864:ASN:HD21	1.75	0.50
17:a:1227:LEU:HD23	17:a:1244:ARG:O	2.12	0.50
17:a:1496:PHE:CE2	20:d:33:LEU:HD23	2.45	0.50
18:b:35:LEU:H	18:b:158:MET:CE	2.22	0.50
18:b:469:LEU:HD23	18:b:469:LEU:O	2.11	0.50
18:b:854:LYS:NZ	18:b:950:LEU:HD11	2.25	0.50
18:b:1205:PHE:CE2	18:b:1210:LYS:C	2.89	0.50
20:d:7:GLU:HG3	20:d:15:LEU:HD23	1.93	0.50
22:f:64:VAL:HB	22:f:133:TYR:O	2.11	0.50
22:f:106:ASP:C	22:f:108:LEU:H	2.18	0.50
23:g:23:MET:SD	23:g:71:PHE:CZ	3.04	0.50
24:h:7:LEU:CD2	24:h:110:LYS:HD3	2.41	0.50
24:h:54:THR:HG23	24:h:55:PHE:CD2	2.46	0.50
1:F:118:ALA:HB3	2:H:75:SER:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:124:ASP:HA	3:Q:141:ILE:HG22	1.93	0.50
3:Q:452:PHE:HA	3:Q:483:ARG:O	2.10	0.50
17:a:11:VAL:HG12	18:b:1179:PHE:HB2	1.92	0.50
17:a:57:ASP:CB	17:a:58:PRO:HD2	2.36	0.50
17:a:62:THR:CG2	17:a:63:ILE:N	2.74	0.50
17:a:94:HIS:CD2	17:a:97:PHE:CD1	2.98	0.50
17:a:378:LYS:CA	17:a:441:HIS:CD2	2.89	0.50
17:a:918:GLU:HB2	17:a:981:PRO:CG	2.40	0.50
17:a:971:LEU:HD11	17:a:1038:TYR:CB	2.41	0.50
17:a:1119:LEU:C	17:a:1119:LEU:HD12	2.36	0.50
17:a:1119:LEU:HD23	17:a:1314:THR:HG21	1.91	0.50
17:a:1259:MET:C	17:a:1260:ILE:CG2	2.79	0.50
18:b:686:MET:HE2	18:b:724:VAL:HG22	1.93	0.50
18:b:817:LEU:HD23	18:b:818:CYS:H	1.74	0.50
20:d:92:GLN:O	20:d:96:LEU:HD23	2.11	0.50
22:f:75:MET:HB2	22:f:141:LEU:HB3	1.93	0.50
1:F:120:ASN:OD1	1:F:121:ALA:N	2.44	0.50
5:T:39:VAL:HG22	5:T:90:TRP:CE2	2.46	0.50
7:V:76:GLN:O	7:V:79:SER:OG	2.21	0.50
8:N:427:LYS:HD3	8:N:431:VAL:O	2.11	0.50
17:a:42:THR:HB	17:a:55:LEU:HG	1.93	0.50
17:a:59:ARG:N	17:a:60:LEU:CG	2.74	0.50
17:a:150:CYS:HB2	17:a:176:GLY:HA2	1.90	0.50
17:a:343:ARG:NH2	17:a:1409:GLU:OE1	2.44	0.50
17:a:402:PRO:HB3	17:a:408:ALA:O	2.10	0.50
17:a:522:SER:O	17:a:523:ASN:ND2	2.44	0.50
17:a:773:GLN:HE21	17:a:780:ARG:HB2	1.70	0.50
17:a:816:PRO:HG2	18:b:689:MET:CE	2.41	0.50
17:a:1149:VAL:O	17:a:1151:SER:N	2.45	0.50
18:b:247:ASN:C	18:b:249:GLU:N	2.67	0.50
18:b:341:ILE:HG22	18:b:346:LEU:CD2	2.38	0.50
18:b:664:GLY:O	18:b:665:TRP:CB	2.60	0.50
18:b:795:THR:HG22	18:b:798:MET:HE3	1.92	0.50
18:b:812:ALA:O	18:b:814:VAL:N	2.44	0.50
18:b:900:ILE:HD13	18:b:900:ILE:H	1.73	0.50
22:f:71:THR:HG22	22:f:134:GLU:OE1	2.11	0.50
23:g:39:CYS:SG	23:g:45:TYR:HA	2.51	0.50
23:g:87:VAL:CG2	23:g:147:LYS:HG2	2.37	0.50
24:h:13:VAL:HA	24:h:28:THR:O	2.11	0.50
27:k:81:SER:H	27:k:82:PRO:HA	1.75	0.50
1:F:48:ASN:ND2	1:F:74:THR:O	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:92:GLN:NE2	1:F:104:PRO:HB2	2.26	0.50
2:H:43:TRP:HA	2:H:46:ILE:HD12	1.93	0.50
3:Q:264:ALA:HA	3:Q:348:GLU:HB2	1.93	0.50
6:K:71:GLY:O	6:K:75:GLN:HG2	2.12	0.50
8:N:331:PHE:HB2	8:N:359:LEU:HB2	1.93	0.50
16:J:188:UNK:O	16:J:192:UNK:N	2.44	0.50
17:a:567:PRO:HG3	17:a:586:LEU:HD11	1.94	0.50
17:a:584:LEU:C	17:a:586:LEU:H	2.20	0.50
17:a:811:LEU:CD2	18:b:1041:VAL:HG21	2.42	0.50
17:a:857:ARG:CG	17:a:857:ARG:NH1	2.58	0.50
17:a:880:ASP:O	17:a:881:ALA:C	2.53	0.50
17:a:921:ILE:O	17:a:922:GLU:OE1	2.30	0.50
17:a:1161:PRO:HG2	17:a:1190:LYS:HG2	0.54	0.50
17:a:1185:GLU:HG3	17:a:1186:GLU:N	2.26	0.50
18:b:651:ASP:OD2	18:b:662:ARG:CA	2.59	0.50
18:b:862:GLU:HB3	18:b:864:GLU:HG3	1.93	0.50
18:b:879:TYR:N	18:b:879:TYR:CD1	2.78	0.50
18:b:986:GLU:CD	18:b:986:GLU:N	2.69	0.50
18:b:1086:HIS:HB2	18:b:1091:LYS:HE3	1.93	0.50
19:c:73:SER:HB2	19:c:239:ILE:HG21	1.94	0.50
20:d:24:MET:HE1	20:d:88:PHE:CD1	2.46	0.50
20:d:54:VAL:O	20:d:58:THR:HG23	2.11	0.50
21:e:21:LEU:O	21:e:22:VAL:HG23	2.11	0.50
23:g:135:ASP:O	23:g:136:GLN:C	2.55	0.50
25:i:87:GLN:CD	25:i:97:MET:HE3	2.36	0.50
8:N:183:THR:HG22	8:N:188:ARG:H	1.76	0.50
8:N:427:LYS:HG2	8:N:428:VAL:O	2.10	0.50
8:N:523:GLU:C	8:N:525:ASN:HA	2.36	0.50
17:a:42:THR:CB	17:a:55:LEU:HG	2.41	0.50
17:a:94:HIS:N	17:a:98:LEU:HG	2.27	0.50
17:a:167:SER:CA	17:a:168:ALA:CB	2.72	0.50
17:a:262:SER:O	17:a:263:ARG:CB	2.58	0.50
17:a:349:LYS:HE2	18:b:1106:GLN:NE2	2.27	0.50
17:a:588:ILE:HD11	17:a:616:GLY:HA2	1.94	0.50
17:a:653:ASN:O	17:a:657:ARG:CG	2.59	0.50
17:a:812:ARG:H	17:a:813:GLY:HA2	1.75	0.50
17:a:822:HIS:CE1	18:b:753:SER:CB	2.83	0.50
17:a:1485:PRO:CD	20:d:43:ARG:HH11	2.25	0.50
18:b:229:LEU:HD23	18:b:229:LEU:H	1.76	0.50
18:b:281:ARG:HG3	25:i:6:TYR:CD1	2.46	0.50
18:b:427:GLU:O	18:b:428:PHE:HD2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:438:ILE:HG12	18:b:439:ILE:HG12	1.93	0.50
18:b:736:MET:HA	18:b:736:MET:HE2	1.93	0.50
18:b:775:GLN:NE2	19:c:56:VAL:HG13	2.27	0.50
18:b:943:VAL:CG2	18:b:953:VAL:HG13	2.36	0.50
19:c:70:PRO:C	19:c:71:LEU:HD12	2.37	0.50
24:h:14:THR:HG23	24:h:28:THR:OG1	2.11	0.50
24:h:107:SER:O	24:h:108:HIS:C	2.54	0.50
25:i:98:THR:O	25:i:99:LEU:C	2.54	0.50
3:Q:509:TRP:HB2	3:Q:520:PHE:O	2.12	0.50
5:T:37:TRP:CE3	5:T:90:TRP:HB3	2.46	0.50
17:a:231:ASN:HD22	17:a:234:TYR:N	2.07	0.50
17:a:428:GLY:O	17:a:429:ASP:C	2.54	0.50
17:a:811:LEU:C	18:b:750:HIS:NE2	2.70	0.50
17:a:963:VAL:CG1	17:a:966:ILE:HD11	2.39	0.50
17:a:1083:THR:HB	17:a:1101:VAL:HB	1.94	0.50
17:a:1124:MET:HB2	17:a:1126:TRP:C	2.36	0.50
17:a:1166:ILE:HD13	17:a:1171:ASP:CG	2.36	0.50
17:a:1474:GLY:O	17:a:1475:THR:OG1	2.30	0.50
18:b:16:ASP:O	18:b:19:THR:CG2	2.60	0.50
18:b:313:LYS:O	18:b:317:LEU:HD13	2.11	0.50
18:b:1206:THR:O	18:b:1207:LYS:O	2.29	0.50
19:c:9:ILE:O	19:c:9:ILE:HD13	2.12	0.50
23:g:5:LEU:HD13	23:g:50:LEU:HD11	1.77	0.50
23:g:100:PHE:CE1	23:g:131:TYR:CD2	2.99	0.50
24:h:72:ALA:HB1	24:h:123:LEU:C	2.35	0.50
25:i:58:VAL:CG1	25:i:60:HIS:HB2	2.42	0.50
1:F:37:PHE:O	1:F:43:TYR:HB2	2.12	0.50
1:F:49:ASN:HD21	1:F:70:LEU:HD11	1.76	0.50
3:Q:187:LEU:HD22	6:K:35:LEU:HD22	1.93	0.50
17:a:730:GLN:O	17:a:733:ASP:OD1	2.30	0.50
17:a:820:PHE:CZ	18:b:500:LEU:CD1	2.94	0.50
17:a:858:TYR:CD1	17:a:1063:PRO:HG2	2.46	0.50
18:b:229:LEU:HB2	18:b:231:ARG:H	1.77	0.50
18:b:319:TYR:O	18:b:319:TYR:CG	2.65	0.50
18:b:430:LEU:C	18:b:432:LEU:N	2.67	0.50
18:b:485:ASN:C	18:b:486:THR:HG22	2.37	0.50
18:b:907:ILE:HD11	18:b:924:ARG:NE	2.25	0.50
18:b:1095:ARG:HH21	18:b:1115:GLY:C	2.18	0.50
19:c:251:ILE:C	19:c:251:ILE:HD12	2.36	0.50
20:d:65:PHE:HD1	20:d:67:ARG:HH21	1.59	0.50
21:e:118:ILE:N	21:e:118:ILE:HD12	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:50:PHE:O	7:V:54:TYR:OH	2.28	0.50
3:Q:285:TRP:HZ2	3:Q:306:PHE:CG	2.30	0.50
4:R:2:GLN:HG2	4:R:176:ALA:HB2	1.93	0.50
5:T:30:PHE:CA	5:T:100:GLY:O	2.60	0.50
8:N:255:GLN:O	8:N:257:PRO:HD3	2.12	0.50
8:N:295:ARG:O	8:N:307:LEU:HA	2.12	0.50
17:a:171:GLY:O	17:a:172:HIS:C	2.55	0.50
17:a:390:ASN:HB3	17:a:394:LEU:HB2	1.92	0.50
17:a:412:ILE:O	17:a:436:TRP:HB2	2.11	0.50
17:a:503:THR:C	17:a:505:ALA:H	2.18	0.50
17:a:653:ASN:O	17:a:657:ARG:CB	2.58	0.50
17:a:728:LEU:HD11	17:a:800:PRO:HG3	1.94	0.50
17:a:803:ARG:O	17:a:804:GLY:O	2.30	0.50
17:a:1048:ILE:C	17:a:1050:GLY:H	2.20	0.50
17:a:1384:ARG:HD2	17:a:1388:MET:SD	2.51	0.50
18:b:219:ILE:CG2	18:b:220:ALA:N	2.50	0.50
18:b:297:LEU:O	18:b:300:MET:N	2.32	0.50
18:b:562:ASN:C	18:b:562:ASN:OD1	2.54	0.50
18:b:985:HIS:HE1	18:b:996:VAL:HG11	1.76	0.50
23:g:35:VAL:O	23:g:38:THR:OG1	2.30	0.50
23:g:144:VAL:HG12	23:g:146:LEU:CD1	2.42	0.50
24:h:38:LEU:HD23	24:h:104:ILE:HG23	1.94	0.50
24:h:57:LEU:HD12	24:h:57:LEU:O	2.12	0.50
25:i:23:ARG:O	25:i:24:VAL:HG23	2.11	0.50
5:T:17:PHE:HZ	19:c:260:VAL:HG12	1.75	0.50
5:T:63:SER:O	5:T:77:GLU:HG2	2.12	0.50
7:V:53:VAL:O	7:V:57:GLU:HG3	2.11	0.50
8:N:129:THR:O	8:N:133:LEU:N	2.45	0.50
17:a:6:PHE:CE2	17:a:78:ASP:CG	2.89	0.50
17:a:116:LYS:O	17:a:117:ILE:O	2.30	0.50
17:a:150:CYS:CB	17:a:176:GLY:N	2.75	0.50
17:a:444:ASP:HA	17:a:467:ARG:HB2	1.94	0.50
17:a:488:PHE:O	18:b:978:THR:CG2	2.60	0.50
17:a:740:GLU:C	17:a:742:SER:H	2.20	0.50
17:a:793:PHE:CZ	17:a:817:GLN:CD	2.90	0.50
17:a:816:PRO:CG	18:b:689:MET:HE1	2.42	0.50
17:a:1101:VAL:O	17:a:1102:PRO:C	2.54	0.50
17:a:1185:GLU:HG3	17:a:1186:GLU:H	1.75	0.50
17:a:1393:HIS:O	17:a:1408:PHE:HB3	2.11	0.50
17:a:1450:TYR:CE2	22:f:125:ARG:HD2	2.47	0.50
18:b:11:THR:O	18:b:12:LEU:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:13:THR:HG22	18:b:16:ASP:OD2	2.12	0.50
18:b:752:GLN:O	18:b:754:PRO:HD3	2.09	0.50
20:d:64:VAL:O	20:d:64:VAL:CG1	2.60	0.50
23:g:19:PHE:O	23:g:20:GLY:O	2.30	0.50
23:g:23:MET:O	23:g:24:GLN:C	2.55	0.50
23:g:103:ASN:OD1	23:g:108:ASN:OD1	2.30	0.50
26:j:42:ARG:HB3	26:j:44:CYS:HB2	1.93	0.50
4:R:49:PRO:C	4:R:51:GLN:H	2.17	0.49
13:2:111:SER:N	13:2:127:GLU:O	2.44	0.49
17:a:121:ASN:HD22	17:a:121:ASN:N	2.10	0.49
17:a:323:LYS:O	17:a:326:ARG:HG3	2.12	0.49
17:a:646:GLU:C	17:a:648:CYS:N	2.62	0.49
17:a:1218:LYS:HD2	17:a:1278:SER:HB3	1.94	0.49
18:b:41:PHE:HB3	18:b:42:VAL:CB	2.42	0.49
18:b:290:ASP:HA	18:b:292:ASN:CG	2.36	0.49
18:b:433:ALA:O	18:b:434:VAL:C	2.55	0.49
18:b:494:LEU:O	18:b:495:ALA:O	2.30	0.49
18:b:875:LYS:C	18:b:876:HIS:CD2	2.90	0.49
20:d:29:GLU:OE2	20:d:33:LEU:HD11	2.12	0.49
23:g:14:LEU:HD13	23:g:27:LEU:HD23	1.94	0.49
26:j:7:CYS:HB2	26:j:45:CYS:CB	2.39	0.49
26:j:40:LEU:HB3	26:j:46:ARG:HB2	1.94	0.49
1:F:148:GLN:OE1	3:Q:193:ARG:NH1	2.40	0.49
2:H:187:MET:HE1	4:R:160:ASN:HB2	1.95	0.49
3:Q:442:GLN:O	3:Q:446:LYS:HG3	2.12	0.49
4:R:36:TRP:HZ3	4:R:57:ARG:HD3	1.75	0.49
17:a:117:ILE:CD1	17:a:143:VAL:HG11	2.42	0.49
17:a:180:PRO:CG	17:a:193:TRP:CD1	2.95	0.49
17:a:381:THR:CB	17:a:382:TYR:HB3	2.41	0.49
17:a:388:PRO:HB3	17:a:434:TYR:CZ	2.47	0.49
17:a:506:GLU:O	17:a:508:GLN:N	2.45	0.49
17:a:659:VAL:O	17:a:660:ASN:C	2.55	0.49
17:a:772:GLY:HA3	17:a:806:ILE:H	1.77	0.49
17:a:922:GLU:HB3	17:a:923:ASN:CA	2.39	0.49
17:a:1166:ILE:CA	17:a:1167:GLU:CB	2.30	0.49
17:a:1177:PHE:C	17:a:1180:PRO:CD	2.86	0.49
17:a:1242:ARG:O	17:a:1243:CYS:SG	2.68	0.49
17:a:1259:MET:O	17:a:1260:ILE:CG2	2.60	0.49
17:a:1449:ILE:HD12	17:a:1449:ILE:N	2.25	0.49
18:b:234:ARG:HH21	18:b:408:ARG:CZ	2.25	0.49
18:b:308:PHE:CD2	18:b:308:PHE:O	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:426:ARG:C	18:b:428:PHE:N	2.70	0.49
18:b:605:ILE:CB	25:i:61:ASP:CB	2.82	0.49
18:b:823:ASN:O	18:b:823:ASN:CG	2.54	0.49
18:b:888:ILE:CG2	18:b:900:ILE:HA	2.43	0.49
20:d:86:HIS:O	20:d:89:GLU:N	2.45	0.49
22:f:60:SER:O	22:f:61:GLY:O	2.30	0.49
25:i:8:ILE:O	25:i:9:GLU:CB	2.60	0.49
25:i:85:PHE:O	25:i:86:TYR:CB	2.51	0.49
3:Q:139:GLU:HA	20:d:129:THR:O	2.11	0.49
4:R:112:PHE:HA	4:R:115:LYS:HB2	1.95	0.49
17:a:181:THR:C	17:a:182:ILE:CG1	2.85	0.49
17:a:336:LYS:CB	17:a:1410:GLU:OE1	2.58	0.49
17:a:360:THR:HG22	17:a:361:GLY:N	2.26	0.49
17:a:433:ARG:HH11	17:a:435:GLY:HA3	1.76	0.49
17:a:440:ARG:HG3	17:a:441:HIS:O	2.12	0.49
17:a:457:HIS:CA	17:a:1077:GLU:OE2	2.59	0.49
17:a:474:PHE:CZ	17:a:495:MET:HE2	2.47	0.49
17:a:547:LEU:HB2	17:a:578:TRP:HB2	1.94	0.49
17:a:650:GLY:HA2	17:a:653:ASN:HD22	1.78	0.49
17:a:947:LYS:HG2	17:a:951:PRO:HG2	1.95	0.49
17:a:1259:MET:O	17:a:1260:ILE:CB	2.60	0.49
17:a:1345:LEU:HD22	21:e:145:VAL:HG21	1.94	0.49
17:a:1412:VAL:CG1	17:a:1413:GLU:HG3	2.42	0.49
18:b:31:ALA:N	18:b:482:ARG:HH21	2.02	0.49
18:b:292:ASN:H	18:b:293:ASP:CG	2.20	0.49
18:b:605:ILE:CG2	25:i:61:ASP:CB	2.90	0.49
18:b:831:ASN:HD21	18:b:833:ALA:HB3	1.78	0.49
18:b:987:ASP:O	18:b:1064:GLY:HA3	2.12	0.49
18:b:1189:LYS:HE2	18:b:1193:GLN:CD	2.38	0.49
23:g:114:HIS:NE2	23:g:115:LEU:HD23	2.27	0.49
25:i:5:GLN:O	25:i:14:LEU:HG	2.12	0.49
26:j:2:ILE:CG2	26:j:56:ILE:HG12	2.42	0.49
2:H:29:HIS:O	2:H:33:ILE:HG13	2.12	0.49
3:Q:501:LEU:HG	3:Q:502:HIS:HD2	1.77	0.49
4:R:87:GLU:HG3	4:R:96:ILE:HB	1.95	0.49
5:T:55:PHE:CD1	5:T:67:CYS:HA	2.47	0.49
6:K:57:TYR:HA	6:K:60:GLU:HB3	1.93	0.49
8:N:402:LEU:HD21	8:N:406:ILE:HB	1.95	0.49
10:G:321:ASP:CB	11:U:124:ARG:CB	2.91	0.49
17:a:101:ILE:HD13	17:a:240:MET:SD	2.52	0.49
17:a:816:PRO:HB2	18:b:689:MET:HE2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:843:ILE:HD13	17:a:843:ILE:O	2.12	0.49
17:a:1451:LEU:HD23	22:f:122:LEU:HD23	1.94	0.49
17:a:1496:PHE:HZ	20:d:32:ILE:CG2	2.26	0.49
18:b:187:TYR:CD2	18:b:194:GLU:OE1	2.65	0.49
18:b:216:PRO:N	18:b:217:SER:CA	2.76	0.49
18:b:308:PHE:O	18:b:308:PHE:CG	2.65	0.49
18:b:440:THR:CG2	18:b:441:ASN:H	2.25	0.49
23:g:6:LYS:CG	23:g:7:GLU:H	2.25	0.49
23:g:144:VAL:HG13	23:g:170:GLY:CA	2.41	0.49
24:h:117:ASP:O	24:h:118:HIS:O	2.30	0.49
27:k:16:PRO:O	27:k:17:LYS:C	2.55	0.49
27:k:18:VAL:HG22	27:k:34:LEU:CD2	2.42	0.49
4:R:65:HIS:ND1	4:R:66:ASP:O	2.46	0.49
5:T:36:LYS:HE3	5:T:95:SER:HA	1.95	0.49
8:N:387:THR:HA	8:N:390:HIS:HB3	1.94	0.49
12:3:67:ILE:O	12:3:69:PRO:N	2.45	0.49
17:a:95:ILE:HD12	17:a:314:ILE:HD13	1.91	0.49
17:a:182:ILE:HG23	17:a:190:TRP:O	2.13	0.49
17:a:213:VAL:HG13	17:a:217:PHE:CZ	2.47	0.49
17:a:260:GLY:O	17:a:261:THR:O	2.30	0.49
17:a:461:MET:HE2	18:b:1126:CYS:HB2	1.94	0.49
17:a:793:PHE:CE1	17:a:817:GLN:OE1	2.65	0.49
17:a:856:VAL:CG2	17:a:1067:VAL:HG21	2.36	0.49
17:a:874:TYR:HB3	17:a:1061:VAL:CG1	2.43	0.49
17:a:876:GLU:CD	21:e:195:ARG:HH22	2.20	0.49
17:a:950:PHE:HB2	17:a:951:PRO:CD	2.31	0.49
18:b:233:SER:O	18:b:234:ARG:O	2.30	0.49
18:b:450:GLY:HA3	18:b:464:GLY:H	1.78	0.49
18:b:537:SER:O	18:b:540:ILE:HG12	2.11	0.49
18:b:699:GLN:HB3	18:b:704:TYR:HB2	1.94	0.49
18:b:839:LEU:O	18:b:840:PHE:C	2.55	0.49
18:b:1148:ARG:NH2	18:b:1163:TYR:CD2	2.79	0.49
19:c:7:ILE:CD1	27:k:104:PHE:HA	2.39	0.49
19:c:45:ILE:HD11	19:c:66:LEU:C	2.38	0.49
19:c:171:TRP:O	19:c:172:SER:C	2.55	0.49
25:i:57:THR:CA	25:i:58:VAL:HB	2.43	0.49
27:k:75:GLN:O	27:k:76:THR:HB	2.11	0.49
28:l:23:LEU:O	28:l:49:MET:HA	2.12	0.49
3:Q:521:SER:OG	3:Q:522:SER:N	2.45	0.49
8:N:197:PHE:CD1	8:N:266:LEU:CD2	2.94	0.49
17:a:189:LEU:HB2	17:a:208:LEU:HD11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:194:LYS:HA	17:a:200:SER:CB	2.42	0.49
17:a:326:ARG:O	17:a:327:PRO:O	2.30	0.49
17:a:352:ASP:HA	18:b:1095:ARG:CG	2.41	0.49
17:a:377:ALA:HA	17:a:442:ILE:HD11	1.95	0.49
17:a:428:GLY:C	17:a:430:ILE:HG23	2.36	0.49
17:a:522:SER:O	17:a:523:ASN:C	2.56	0.49
17:a:558:TRP:HH2	27:k:61:LYS:CG	2.22	0.49
17:a:583:ILE:HD13	17:a:583:ILE:N	2.27	0.49
17:a:902:LYS:HB3	17:a:903:TYR:CD1	2.47	0.49
17:a:1109:ASN:C	17:a:1111:ALA:N	2.70	0.49
17:a:1181:ASP:HA	17:a:1184:VAL:CG2	2.43	0.49
18:b:838:GLY:HA2	18:b:841:ARG:CD	2.41	0.49
18:b:1057:GLY:O	18:b:1058:PHE:O	2.31	0.49
18:b:1124:ARG:HD3	18:b:1128:ILE:HD11	1.93	0.49
20:d:10:ALA:CB	23:g:84:ARG:O	2.61	0.49
21:e:53:ASP:O	21:e:54:ARG:C	2.56	0.49
22:f:84:LEU:HD13	22:f:112:MET:HG2	1.94	0.49
26:j:42:ARG:HB3	26:j:44:CYS:HB3	1.94	0.49
1:F:76:ILE:HA	1:F:94:GLN:O	2.13	0.49
4:R:69:ASP:OD2	4:R:71:GLU:HG2	2.12	0.49
6:K:108:SER:O	6:K:112:ILE:HG13	2.13	0.49
8:N:154:ILE:O	8:N:157:THR:OG1	2.23	0.49
17:a:16:VAL:HG22	18:b:1182:VAL:CG2	2.43	0.49
17:a:86:ILE:HD11	17:a:276:ILE:HG12	1.94	0.49
17:a:115:LEU:H	17:a:115:LEU:HD13	1.77	0.49
17:a:120:SER:N	17:a:122:PRO:HA	2.28	0.49
17:a:168:ALA:O	17:a:169:ASN:CB	2.58	0.49
17:a:551:ALA:CB	17:a:554:ASN:H	2.26	0.49
17:a:553:MET:HE1	27:k:58:ALA:HB3	1.94	0.49
17:a:847:LEU:HB3	17:a:1072:ALA:HB1	1.93	0.49
17:a:1071:ALA:CB	17:a:1373:HIS:CG	2.94	0.49
17:a:1444:THR:HG22	18:b:1133:SER:N	2.21	0.49
18:b:16:ASP:CA	18:b:19:THR:HG22	2.41	0.49
18:b:88:THR:HA	18:b:98:THR:HA	1.94	0.49
18:b:706:VAL:HG13	18:b:707:LYS:N	2.27	0.49
18:b:975:GLN:O	18:b:976:LYS:C	2.54	0.49
18:b:1054:GLN:HG2	19:c:202:TRP:CE3	2.48	0.49
19:c:240:PRO:HB2	19:c:243:GLU:CG	2.42	0.49
20:d:84:ARG:C	20:d:90:ARG:HD2	2.37	0.49
21:e:103:ILE:HA	21:e:128:GLU:O	2.13	0.49
21:e:178:PRO:O	21:e:182:TYR:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:g:147:LYS:HZ3	23:g:166:GLU:HG3	1.77	0.49
24:h:40:LEU:HA	24:h:101:LEU:O	2.13	0.49
25:i:19:ASP:O	25:i:20:LYS:O	2.30	0.49
2:H:73:THR:O	3:Q:159:SER:N	2.39	0.49
3:Q:124:ASP:OD1	3:Q:141:ILE:HA	2.12	0.49
4:R:73:SER:O	4:R:78:TRP:NE1	2.46	0.49
8:N:486:CYS:SG	8:N:551:LEU:HD13	2.52	0.49
17:a:20:GLN:O	18:b:1203:ARG:N	2.46	0.49
17:a:349:LYS:HE2	18:b:1106:GLN:HE22	1.77	0.49
17:a:414:ASP:OD1	17:a:433:ARG:CZ	2.61	0.49
17:a:562:TRP:CD1	17:a:564:GLY:H	2.30	0.49
17:a:708:LEU:CB	17:a:709:LYS:C	2.75	0.49
17:a:762:ILE:O	17:a:762:ILE:CG1	2.59	0.49
17:a:775:ILE:CG1	17:a:1089:TYR:HB2	2.43	0.49
17:a:1096:ASN:O	17:a:1097:VAL:C	2.56	0.49
17:a:1101:VAL:N	17:a:1102:PRO:CD	2.73	0.49
17:a:1410:GLU:O	17:a:1411:THR:O	2.30	0.49
18:b:41:PHE:N	18:b:42:VAL:HB	2.27	0.49
18:b:149:LYS:HG3	18:b:149:LYS:O	2.12	0.49
18:b:165:ILE:O	18:b:166:LEU:HD23	2.13	0.49
18:b:221:TYR:HB2	18:b:243:LEU:HD13	1.92	0.49
18:b:229:LEU:HB2	18:b:231:ARG:N	2.27	0.49
18:b:363:PHE:CZ	18:b:572:TRP:HB3	2.47	0.49
18:b:625:ILE:HG21	18:b:675:GLU:HG3	1.94	0.49
18:b:838:GLY:O	18:b:839:LEU:C	2.55	0.49
18:b:986:GLU:HB3	19:c:34:ARG:HE	1.78	0.49
20:d:25:LEU:HD21	20:d:29:GLU:OE2	2.12	0.49
22:f:96:PRO:HG3	23:g:19:PHE:CB	2.30	0.49
26:j:46:ARG:C	26:j:48:MET:H	2.21	0.49
27:k:34:LEU:HD12	27:k:70:PHE:CZ	2.47	0.49
2:H:136:LEU:HD22	6:K:51:LEU:HB2	1.95	0.49
2:H:194:PHE:CZ	4:R:122:HIS:HB2	2.48	0.49
3:Q:176:LYS:NZ	7:V:52:GLU:OE1	2.30	0.49
3:Q:247:LYS:HG3	3:Q:254:GLU:HB3	1.94	0.49
3:Q:477:ARG:HB2	3:Q:498:THR:HB	1.93	0.49
5:T:62:PRO:O	5:T:64:MET:HG2	2.13	0.49
5:T:94:GLN:NE2	19:c:89:ASN:CB	2.68	0.49
8:N:215:PHE:CE1	8:N:256:LYS:HD2	2.47	0.49
17:a:25:SER:HB2	17:a:26:PRO:HD2	1.94	0.49
17:a:40:PRO:HA	17:a:276:ILE:CG2	2.42	0.49
17:a:88:LEU:HG	17:a:243:THR:C	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:94:HIS:NE2	17:a:97:PHE:HD1	2.11	0.49
17:a:242:ILE:HG21	17:a:245:LEU:CD1	2.41	0.49
17:a:257:SER:O	17:a:259:ASP:N	2.43	0.49
17:a:405:HIS:C	17:a:407:GLY:H	2.19	0.49
17:a:452:ARG:HH11	17:a:486:ALA:CB	2.26	0.49
17:a:528:GLY:O	17:a:530:VAL:HG23	2.12	0.49
17:a:729:ASN:O	17:a:733:ASP:OD1	2.30	0.49
17:a:1061:VAL:HG13	17:a:1061:VAL:O	2.12	0.49
17:a:1163:ASP:C	17:a:1164:THR:CG2	2.86	0.49
17:a:1319:LEU:HD11	17:a:1335:SER:HB3	1.95	0.49
18:b:38:PHE:C	18:b:40:GLU:H	2.20	0.49
18:b:281:ARG:CG	25:i:6:TYR:CD2	2.96	0.49
18:b:328:GLY:C	18:b:329:VAL:HG12	2.38	0.49
18:b:778:MET:HE2	18:b:847:THR:CB	2.42	0.49
18:b:970:ALA:HB2	18:b:976:LYS:HA	1.93	0.49
18:b:984:ARG:HH22	27:k:39:HIS:CE1	2.30	0.49
19:c:222:PHE:C	19:c:224:GLU:H	2.19	0.49
4:R:60:SER:HB2	4:R:78:TRP:CE2	2.48	0.49
5:T:4:HIS:HD2	5:T:162:TYR:HA	1.77	0.49
5:T:114:ASN:HA	5:T:124:ILE:HG12	1.94	0.49
17:a:69:CYS:O	17:a:70:GLN:C	2.55	0.49
17:a:268:LEU:H	17:a:328:LEU:CD2	2.25	0.49
17:a:553:MET:CE	27:k:58:ALA:HB3	2.42	0.49
17:a:917:MET:HE1	17:a:986:PRO:CD	2.42	0.49
17:a:1155:ILE:HG12	17:a:1196:LEU:CD2	2.43	0.49
17:a:1216:ALA:HA	17:a:1219:ILE:CD1	2.42	0.49
17:a:1313:GLU:O	17:a:1314:THR:O	2.30	0.49
17:a:1449:ILE:HG22	22:f:123:LEU:O	2.12	0.49
18:b:196:VAL:HG12	18:b:197:ILE:O	2.13	0.49
18:b:229:LEU:HD12	18:b:231:ARG:HB3	1.93	0.49
18:b:326:THR:O	18:b:326:THR:OG1	2.30	0.49
18:b:343:GLN:NE2	18:b:354:GLU:HA	2.28	0.49
18:b:502:ASN:OD1	18:b:502:ASN:N	2.44	0.49
18:b:538:ALA:C	18:b:540:ILE:N	2.70	0.49
18:b:625:ILE:HG12	18:b:639:CYS:SG	2.53	0.49
19:c:54:THR:CG2	19:c:152:GLN:HA	2.43	0.49
19:c:65:ARG:NH1	19:c:65:ARG:HG2	2.28	0.49
19:c:129:SER:HB2	19:c:130:LEU:C	2.38	0.49
19:c:135:LEU:CD2	19:c:141:ARG:C	2.86	0.49
20:d:37:VAL:O	20:d:41:ARG:HG3	2.13	0.49
21:e:84:ILE:HG23	21:e:114:ALA:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:g:144:VAL:CG1	23:g:145:ARG:N	2.75	0.49
25:i:59:SER:C	25:i:61:ASP:N	2.60	0.49
27:k:44:MET:O	27:k:46:ALA:N	2.36	0.49
1:F:34:LEU:O	1:F:38:SER:OG	2.27	0.48
2:H:28:THR:N	3:Q:116:GLN:HE22	2.11	0.48
3:Q:310:ILE:O	3:Q:314:LEU:HG	2.13	0.48
3:Q:533:HIS:CD2	3:Q:537:LEU:HD22	2.48	0.48
4:R:80:MET:HE3	5:T:84:ILE:HD13	1.95	0.48
5:T:64:MET:HE1	5:T:77:GLU:HG3	1.93	0.48
5:T:174:ASP:HB3	5:T:177:LEU:HD12	1.94	0.48
17:a:118:ASP:HB3	17:a:172:HIS:H	1.78	0.48
17:a:205:LYS:H	17:a:206:ARG:NE	2.11	0.48
17:a:231:ASN:ND2	17:a:234:TYR:CD2	2.74	0.48
17:a:332:ARG:HG2	17:a:332:ARG:HH11	1.78	0.48
17:a:366:SER:O	17:a:369:GLU:HB2	2.13	0.48
17:a:855:MET:CG	17:a:1065:GLU:H	2.26	0.48
17:a:1122:TYR:C	17:a:1123:LEU:HD13	2.37	0.48
17:a:1194:TRP:CZ2	17:a:1262:GLU:HB3	2.45	0.48
17:a:1293:HIS:HD2	17:a:1311:VAL:CB	2.23	0.48
18:b:116:TYR:HE1	18:b:151:PHE:HB2	1.73	0.48
18:b:225:ILE:HB	18:b:239:MET:HB2	1.94	0.48
18:b:243:LEU:O	18:b:244:MET:O	2.30	0.48
18:b:269:VAL:HG21	18:b:304:ILE:HA	1.94	0.48
18:b:469:LEU:O	18:b:470:ASN:CB	2.61	0.48
18:b:1192:PHE:O	18:b:1196:MET:HG2	2.13	0.48
20:d:24:MET:SD	20:d:88:PHE:CA	2.96	0.48
23:g:147:LYS:HG3	23:g:169:LEU:CD2	2.43	0.48
3:Q:179:SER:HB3	7:V:53:VAL:HG22	1.94	0.48
3:Q:324:GLN:HG3	8:N:445:SER:HA	1.94	0.48
4:R:38:VAL:HG13	4:R:57:ARG:HG2	1.95	0.48
4:R:38:VAL:HG22	4:R:57:ARG:HG2	1.94	0.48
4:R:66:ASP:HB3	4:R:69:ASP:HB2	1.94	0.48
5:T:12:PRO:HB3	5:T:121:TRP:CZ2	2.49	0.48
8:N:118:LEU:HA	8:N:121:ALA:HB3	1.95	0.48
8:N:384:LEU:O	8:N:387:THR:N	2.45	0.48
17:a:153:GLY:O	17:a:154:LEU:O	2.30	0.48
17:a:162:ASP:N	17:a:162:ASP:OD1	2.45	0.48
17:a:231:ASN:O	17:a:235:ALA:O	2.30	0.48
17:a:573:LYS:HE2	24:h:74:TYR:CE1	2.47	0.48
17:a:780:ARG:O	17:a:781:ILE:O	2.30	0.48
17:a:1062:SER:CA	17:a:1063:PRO:O	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1075:ILE:HA	17:a:1078:PRO:HG3	1.94	0.48
17:a:1109:ASN:O	17:a:1111:ALA:N	2.46	0.48
18:b:845:TYR:HD2	18:b:956:ARG:HD3	1.77	0.48
20:d:111:LEU:O	20:d:112:ALA:O	2.30	0.48
23:g:100:PHE:CZ	23:g:131:TYR:CG	3.01	0.48
27:k:98:GLU:HA	27:k:101:LYS:HB3	1.95	0.48
3:Q:135:GLU:OE1	20:d:124:LEU:CG	2.61	0.48
17:a:114:LYS:O	17:a:115:LEU:O	2.30	0.48
17:a:546:PHE:CE2	24:h:43:ASN:ND2	2.82	0.48
17:a:578:TRP:CD1	17:a:578:TRP:N	2.82	0.48
17:a:770:CYS:C	17:a:771:VAL:CG2	2.84	0.48
17:a:775:ILE:HD12	17:a:775:ILE:H	1.78	0.48
17:a:781:ILE:CG2	17:a:803:ARG:CA	2.91	0.48
17:a:855:MET:HG3	17:a:1065:GLU:H	1.78	0.48
17:a:999:LYS:HD3	17:a:1053:GLU:HG3	1.96	0.48
17:a:1093:SER:O	17:a:1094:SER:OG	2.30	0.48
17:a:1209:LYS:O	17:a:1210:LEU:HD23	2.13	0.48
17:a:1299:ILE:HG22	17:a:1301:ASP:H	1.78	0.48
17:a:1412:VAL:O	17:a:1415:LEU:N	2.47	0.48
18:b:206:ASN:H	18:b:227:SER:CB	2.25	0.48
18:b:229:LEU:O	18:b:234:ARG:O	2.30	0.48
18:b:386:HIS:HA	18:b:388:GLY:H	1.77	0.48
18:b:982:THR:O	18:b:982:THR:HG23	2.13	0.48
20:d:85:PHE:O	20:d:86:HIS:ND1	2.46	0.48
21:e:76:PHE:HD1	21:e:105:ILE:HG12	1.77	0.48
23:g:102:ALA:O	23:g:103:ASN:OD1	2.30	0.48
24:h:88:ASP:O	24:h:89:GLU:C	2.56	0.48
25:i:75:CYS:O	25:i:76:PRO:O	2.30	0.48
1:F:196:PHE:HA	8:N:236:TYR:HE1	1.77	0.48
3:Q:135:GLU:HG3	20:d:99:GLU:OE2	2.14	0.48
8:N:427:LYS:NZ	8:N:430:SER:OG	2.44	0.48
17:a:16:VAL:HG23	18:b:1182:VAL:CG2	2.43	0.48
17:a:66:GLN:N	17:a:67:PHE:CE1	2.81	0.48
17:a:202:LEU:HB3	17:a:203:PRO:HD3	1.91	0.48
17:a:625:LYS:O	17:a:625:LYS:HG2	2.13	0.48
17:a:793:PHE:C	18:b:686:MET:HE1	2.38	0.48
17:a:877:ASP:HB3	17:a:1372:ARG:HH12	1.79	0.48
17:a:1188:LEU:C	17:a:1189:TYR:HD1	2.22	0.48
17:a:1434:ILE:C	18:b:1141:PHE:HZ	2.22	0.48
18:b:12:LEU:HD22	18:b:13:THR:N	2.29	0.48
18:b:54:SER:HB2	18:b:79:PHE:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:344:LYS:O	18:b:348:PRO:HB3	2.13	0.48
18:b:533:VAL:O	18:b:616:ALA:HB2	2.13	0.48
18:b:576:HIS:CE1	18:b:582:LEU:HB2	2.49	0.48
18:b:654:ARG:CZ	18:b:657:ILE:HG21	2.43	0.48
18:b:780:THR:HA	18:b:847:THR:OG1	2.13	0.48
18:b:851:GLN:HG2	18:b:952:PHE:CE2	2.48	0.48
18:b:1095:ARG:HG3	18:b:1096:ALA:N	2.27	0.48
21:e:177:ASP:OD1	21:e:177:ASP:C	2.56	0.48
25:i:97:MET:C	25:i:99:LEU:N	2.72	0.48
26:j:2:ILE:HG23	26:j:56:ILE:HG12	1.94	0.48
1:F:138:LYS:O	1:F:141:THR:OG1	2.25	0.48
3:Q:285:TRP:CE2	3:Q:303:GLU:HG2	2.49	0.48
3:Q:430:PHE:CG	3:Q:501:LEU:HD13	2.48	0.48
6:K:21:VAL:HG22	7:V:78:LYS:HA	1.94	0.48
8:N:192:THR:CA	8:N:194:PRO:CD	2.63	0.48
8:N:301:LYS:NZ	8:N:306:ARG:HH21	2.12	0.48
17:a:11:VAL:O	17:a:12:PRO:O	2.30	0.48
17:a:42:THR:CG2	17:a:55:LEU:HB2	2.39	0.48
17:a:73:GLY:O	18:b:1163:TYR:CZ	2.67	0.48
17:a:432:LEU:O	17:a:433:ARG:O	2.30	0.48
17:a:810:TYR:CD2	18:b:750:HIS:O	2.66	0.48
17:a:816:PRO:HD3	18:b:1036:PHE:HD2	1.79	0.48
17:a:1064:GLY:CA	17:a:1065:GLU:CB	2.91	0.48
17:a:1442:MET:CA	17:a:1442:MET:HE3	2.36	0.48
18:b:30:LEU:CD2	18:b:482:ARG:HH22	2.26	0.48
18:b:1023:VAL:C	18:b:1025:ALA:H	2.20	0.48
18:b:1079:THR:OG1	18:b:1080:TYR:N	2.46	0.48
21:e:118:ILE:C	21:e:120:THR:N	2.70	0.48
24:h:119:VAL:O	24:h:120:TYR:HB2	2.14	0.48
25:i:69:PRO:HG2	25:i:85:PHE:CE1	2.48	0.48
25:i:76:PRO:HG2	25:i:110:PHE:HB2	1.96	0.48
25:i:94:ASP:O	25:i:96:MET:N	2.40	0.48
1:F:137:GLN:O	1:F:141:THR:HG23	2.14	0.48
3:Q:394:HIS:O	3:Q:397:PHE:HB3	2.13	0.48
4:R:3:GLU:HA	4:R:171:THR:O	2.14	0.48
17:a:30:ARG:HG3	17:a:244:VAL:CG2	2.36	0.48
17:a:39:PHE:HB3	17:a:42:THR:OG1	2.14	0.48
17:a:126:ASP:O	17:a:130:TYR:CE2	2.67	0.48
17:a:359:ILE:HD11	17:a:488:PHE:HA	1.95	0.48
17:a:397:LEU:O	17:a:400:ASN:HB2	2.13	0.48
17:a:784:GLY:HA2	17:a:785:PHE:C	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1170:LYS:HZ1	17:a:1238:LYS:CG	2.26	0.48
18:b:366:TYR:CZ	18:b:567:PHE:HZ	2.31	0.48
18:b:621:ARG:NH2	18:b:682:GLU:CD	2.71	0.48
18:b:967:ASP:OD1	18:b:1088:VAL:HG23	2.13	0.48
18:b:1037:THR:CG2	18:b:1039:VAL:HB	2.44	0.48
18:b:1176:ARG:C	18:b:1179:PHE:CE2	2.89	0.48
19:c:242:ASN:HB3	19:c:245:MET:HB3	1.94	0.48
21:e:27:TYR:CD2	21:e:63:PRO:CG	2.73	0.48
21:e:103:ILE:HD12	21:e:103:ILE:O	2.14	0.48
26:j:18:TRP:C	26:j:20:THR:N	2.68	0.48
1:F:63:LEU:HD23	1:F:69:GLN:HG2	1.95	0.48
3:Q:135:GLU:O	20:d:128:SER:HA	2.14	0.48
3:Q:286:PRO:HD3	6:K:107:GLN:HB2	1.96	0.48
4:R:31:THR:OG1	4:R:63:GLU:OE2	2.32	0.48
4:R:36:TRP:NE1	4:R:126:ILE:HG12	2.17	0.48
5:T:50:PRO:CG	5:T:69:ASP:HB3	2.44	0.48
6:K:27:LEU:HD11	6:K:68:ILE:HG12	1.96	0.48
8:N:259:LEU:N	8:N:260:PRO:HD2	2.28	0.48
17:a:632:GLN:C	17:a:634:GLY:H	2.20	0.48
17:a:873:ALA:HA	17:a:1003:PHE:HZ	1.79	0.48
17:a:959:LEU:HD23	17:a:1024:LEU:HD12	1.95	0.48
17:a:1404:MET:SD	17:a:1429:GLY:CA	2.95	0.48
17:a:1413:GLU:O	17:a:1414:ILE:C	2.55	0.48
17:a:1450:TYR:CE1	23:g:61:ARG:HB3	2.49	0.48
18:b:236:ILE:O	18:b:237:SER:CB	2.50	0.48
18:b:268:ILE:HG13	18:b:269:VAL:H	1.78	0.48
18:b:278:VAL:H	18:b:279:PRO:CD	2.24	0.48
18:b:626:VAL:HG13	18:b:637:GLU:O	2.14	0.48
18:b:747:PHE:CE1	18:b:1033:ALA:HB1	2.49	0.48
19:c:84:LEU:CD2	19:c:84:LEU:H	2.27	0.48
19:c:242:ASN:N	19:c:242:ASN:OD1	2.46	0.48
21:e:54:ARG:O	21:e:55:THR:OG1	2.30	0.48
23:g:100:PHE:CZ	23:g:131:TYR:CD2	3.01	0.48
23:g:151:THR:CA	23:g:160:ALA:CB	2.73	0.48
25:i:24:VAL:HG13	25:i:25:LEU:H	1.79	0.48
27:k:31:VAL:O	27:k:31:VAL:HG12	2.13	0.48
3:Q:151:PRO:HG3	20:d:129:THR:HG21	1.95	0.48
3:Q:266:LEU:HD11	3:Q:345:ILE:HG22	1.96	0.48
3:Q:335:VAL:HG21	3:Q:343:VAL:HB	1.95	0.48
6:K:73:ARG:NH1	7:V:18:ASN:O	2.46	0.48
17:a:347:MET:CE	17:a:1407:SER:HA	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:446:ASP:HB3	17:a:466:ILE:HD11	1.95	0.48
17:a:862:VAL:HB	17:a:870:ILE:HD11	1.94	0.48
17:a:1004:ARG:HA	17:a:1005:GLY:HA2	1.59	0.48
17:a:1043:VAL:CG1	17:a:1044:ALA:N	2.76	0.48
17:a:1052:VAL:O	17:a:1053:GLU:C	2.57	0.48
17:a:1081:GLN:OE1	17:a:1368:TYR:HD2	1.96	0.48
17:a:1194:TRP:CZ2	17:a:1262:GLU:CG	2.96	0.48
17:a:1323:MET:HA	17:a:1328:VAL:HG21	1.95	0.48
17:a:1386:HIS:HA	21:e:174:GLN:NE2	2.28	0.48
17:a:1403:LEU:HB3	17:a:1432:GLU:OE1	2.12	0.48
18:b:99:MET:SD	18:b:109:LEU:HD22	2.53	0.48
18:b:579:PRO:O	18:b:580:ALA:C	2.56	0.48
18:b:773:ASN:HB3	26:j:62:TYR:CE1	2.48	0.48
18:b:1061:MET:HG3	18:b:1074:VAL:CB	2.44	0.48
18:b:1067:GLY:N	19:c:30:ASN:ND2	2.62	0.48
19:c:80:PRO:O	19:c:83:GLY:O	2.30	0.48
24:h:89:GLU:HG3	24:h:90:LYS:N	2.28	0.48
25:i:20:LYS:O	25:i:23:ARG:N	2.47	0.48
1:F:10:ASP:OD1	1:F:11:LEU:N	2.47	0.48
1:F:195:ASP:O	8:N:236:TYR:OH	2.23	0.48
2:H:83:PRO:HB2	2:H:87:GLN:CD	2.39	0.48
8:N:257:PRO:HD2	8:N:258:ILE:HG12	1.95	0.48
11:U:85:ALA:O	11:U:89:GLN:N	2.33	0.48
17:a:214:HIS:CE1	17:a:238:ASP:O	2.67	0.48
17:a:237:PRO:C	17:a:239:TRP:N	2.71	0.48
17:a:312:ASN:ND2	17:a:330:SER:H	2.12	0.48
17:a:712:PRO:C	17:a:714:MET:N	2.67	0.48
17:a:1066:MET:HG2	18:b:1128:ILE:HG22	1.96	0.48
17:a:1117:PRO:HG2	17:a:1316:GLY:HA2	1.95	0.48
17:a:1314:THR:HG23	17:a:1315:ASP:N	2.28	0.48
18:b:89:MET:CE	18:b:90:THR:H	2.26	0.48
18:b:263:ARG:HB3	18:b:322:LYS:CE	2.44	0.48
18:b:273:ARG:HH11	18:b:310:ILE:CD1	2.26	0.48
18:b:290:ASP:OD1	18:b:291:PRO:N	2.46	0.48
18:b:402:LEU:O	18:b:405:MET:N	2.47	0.48
18:b:504:HIS:O	18:b:508:VAL:HG23	2.14	0.48
18:b:505:TRP:CH2	18:b:731:GLU:OE1	2.66	0.48
18:b:715:ARG:HH22	18:b:1036:PHE:HA	1.77	0.48
18:b:741:LEU:CD1	18:b:764:LYS:HG2	2.44	0.48
18:b:1162:SER:O	18:b:1164:LYS:HG3	2.14	0.48
21:e:116:LYS:C	21:e:118:ILE:N	2.70	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:g:27:LEU:HD21	23:g:71:PHE:CD2	2.49	0.48
25:i:111:GLU:O	25:i:112:GLU:CB	2.52	0.48
3:Q:193:ARG:O	3:Q:197:VAL:HG23	2.14	0.48
5:T:139:ALA:O	5:T:143:ILE:N	2.44	0.48
17:a:115:LEU:CD1	17:a:115:LEU:N	2.76	0.48
17:a:155:SER:C	17:a:169:ASN:HA	2.36	0.48
17:a:359:ILE:HD12	17:a:359:ILE:C	2.39	0.48
17:a:569:PRO:HG3	17:a:578:TRP:CH2	2.48	0.48
17:a:775:ILE:HG12	17:a:1089:TYR:HB2	1.95	0.48
17:a:805:PHE:CD1	17:a:805:PHE:C	2.92	0.48
18:b:215:ALA:CA	18:b:217:SER:CB	2.76	0.48
18:b:438:ILE:HD13	18:b:438:ILE:H	1.79	0.48
18:b:856:GLY:CA	18:b:857:MET:C	2.85	0.48
18:b:1048:LEU:C	18:b:1050:SER:N	2.69	0.48
18:b:1113:ARG:N	18:b:1114:ASP:HA	2.28	0.48
22:f:141:LEU:C	22:f:142:ILE:HG12	2.39	0.48
23:g:93:THR:CG2	23:g:94:THR:N	2.77	0.48
24:h:43:ASN:CG	24:h:46:ILE:HG12	2.39	0.48
24:h:83:VAL:O	24:h:83:VAL:HG12	2.14	0.48
2:H:185:ASN:O	2:H:188:LEU:HB3	2.14	0.47
2:H:192:LEU:HA	2:H:195:MET:HE3	1.95	0.47
3:Q:207:GLU:O	3:Q:211:VAL:HG23	2.13	0.47
4:R:37:VAL:CG2	4:R:58:LEU:HB2	2.43	0.47
4:R:91:GLU:C	4:R:93:LYS:N	2.72	0.47
8:N:307:LEU:HD11	8:N:330:ILE:HD11	1.95	0.47
17:a:40:PRO:CG	17:a:276:ILE:HG21	2.37	0.47
17:a:177:ALA:HB2	17:a:179:GLN:HG3	1.84	0.47
17:a:242:ILE:CD1	17:a:245:LEU:HD13	2.44	0.47
17:a:573:LYS:NZ	24:h:74:TYR:CE2	2.81	0.47
17:a:1119:LEU:HD13	17:a:1319:LEU:HD21	1.96	0.47
17:a:1194:TRP:HZ2	17:a:1262:GLU:HG3	1.75	0.47
17:a:1320:THR:C	17:a:1322:ALA:N	2.72	0.47
17:a:1481:GLY:O	17:a:1482:ALA:HB3	2.13	0.47
18:b:485:ASN:O	18:b:521:LEU:O	2.32	0.47
19:c:165:ALA:O	19:c:166:LYS:C	2.57	0.47
22:f:106:ASP:C	22:f:108:LEU:N	2.72	0.47
23:g:101:PHE:HE1	23:g:110:PHE:CD1	2.31	0.47
24:h:110:LYS:HD2	24:h:113:ARG:NH2	2.29	0.47
25:i:34:TYR:CZ	25:i:36:GLU:HB2	2.49	0.47
25:i:57:THR:HA	25:i:58:VAL:CB	2.41	0.47
26:j:48:MET:CE	26:j:48:MET:HA	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:71:LYS:O	1:F:96:ARG:NE	2.38	0.47
2:H:17:ARG:HB2	3:Q:123:LEU:HD12	1.96	0.47
3:Q:217:PRO:HB2	3:Q:230:GLN:H	1.79	0.47
3:Q:499:PRO:HA	3:Q:508:VAL:HB	1.95	0.47
4:R:32:ILE:O	4:R:127:GLN:HA	2.14	0.47
14:I:95:LEU:O	14:I:98:SER:N	2.46	0.47
16:J:175:UNK:O	16:J:179:UNK:N	2.47	0.47
17:a:104:ILE:CG2	17:a:107:CYS:HB2	2.44	0.47
17:a:177:ALA:HB1	17:a:179:GLN:N	2.22	0.47
17:a:589:PRO:HB2	17:a:592:ILE:HD12	1.96	0.47
17:a:775:ILE:CD1	17:a:776:VAL:N	2.65	0.47
17:a:1328:VAL:N	17:a:1329:ASP:HA	2.21	0.47
17:a:1342:LEU:HD23	17:a:1347:ILE:HA	1.96	0.47
18:b:287:ILE:HG12	18:b:368:ILE:CG1	2.44	0.47
18:b:538:ALA:CB	18:b:539:PRO:HD3	2.35	0.47
18:b:654:ARG:CZ	18:b:657:ILE:CG2	2.91	0.47
18:b:816:ILE:HG22	18:b:1003:PRO:HG3	1.95	0.47
18:b:879:TYR:N	18:b:879:TYR:HD1	2.13	0.47
19:c:164:ILE:O	19:c:165:ALA:C	2.54	0.47
20:d:84:ARG:HH21	20:d:87:LYS:HE3	1.80	0.47
21:e:71:THR:HG23	21:e:99:HIS:HD2	1.79	0.47
21:e:101:THR:CG2	21:e:126:THR:H	2.19	0.47
22:f:71:THR:CG2	22:f:126:ARG:HH11	2.27	0.47
23:g:14:LEU:HD11	23:g:30:LYS:HD2	1.96	0.47
23:g:97:LYS:CE	23:g:124:PRO:HG3	2.44	0.47
25:i:91:ARG:HG2	25:i:92:ARG:H	1.77	0.47
26:j:1:MET:O	26:j:2:ILE:O	2.31	0.47
3:Q:270:ILE:HD12	3:Q:279:GLY:HA3	1.96	0.47
3:Q:412:GLU:HA	3:Q:415:MET:HE3	1.95	0.47
6:K:80:GLU:HB2	7:V:14:THR:HG21	1.95	0.47
6:K:107:GLN:O	6:K:111:LEU:HG	2.14	0.47
8:N:309:TYR:HE2	8:N:328:ILE:HD12	1.78	0.47
8:N:385:LEU:HD23	8:N:388:GLN:OE1	2.13	0.47
17:a:16:VAL:CG2	18:b:1182:VAL:HG21	2.42	0.47
17:a:40:PRO:HB3	17:a:276:ILE:C	2.40	0.47
17:a:104:ILE:HG23	17:a:107:CYS:CB	2.44	0.47
17:a:388:PRO:HA	17:a:391:ILE:HD13	1.96	0.47
17:a:518:VAL:O	17:a:518:VAL:HG12	2.14	0.47
17:a:710:PRO:O	17:a:711:GLU:CB	2.58	0.47
17:a:820:PHE:O	17:a:821:PHE:C	2.54	0.47
17:a:874:TYR:HB2	17:a:878:GLY:CA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1394:GLY:O	17:a:1395:ILE:O	2.32	0.47
17:a:1442:MET:CG	18:b:1128:ILE:HG23	2.41	0.47
18:b:41:PHE:H	18:b:42:VAL:HB	1.79	0.47
18:b:165:ILE:O	18:b:165:ILE:CG2	2.60	0.47
18:b:300:MET:C	18:b:302:PRO:HD2	2.38	0.47
18:b:569:ASN:OD1	18:b:614:THR:HG22	2.14	0.47
20:d:7:GLU:HG3	20:d:15:LEU:HD22	1.95	0.47
20:d:96:LEU:O	20:d:97:CYS:CB	2.62	0.47
24:h:83:VAL:CG2	24:h:93:VAL:HG22	2.43	0.47
25:i:62:ALA:HB3	25:i:102:VAL:HG21	1.96	0.47
25:i:72:ASP:O	25:i:73:LYS:O	2.31	0.47
1:F:119:PRO:O	2:H:76:ILE:HD12	2.14	0.47
3:Q:135:GLU:OE1	20:d:124:LEU:HD12	2.15	0.47
8:N:294:LEU:HD22	8:N:383:LEU:HD22	1.96	0.47
10:G:334:LEU:O	10:G:338:ILE:N	2.47	0.47
17:a:388:PRO:HA	17:a:391:ILE:CD1	2.44	0.47
17:a:485:ASN:OD1	17:a:485:ASN:O	2.31	0.47
17:a:846:ARG:HD2	17:a:1391:THR:C	2.40	0.47
17:a:1290:MET:HA	17:a:1311:VAL:O	2.14	0.47
17:a:1390:ILE:CD1	17:a:1395:ILE:CG2	2.90	0.47
18:b:492:GLY:HA3	18:b:493:LYS:HA	1.49	0.47
18:b:658:ASP:CB	18:b:659:PRO:HD2	2.37	0.47
19:c:34:ARG:CZ	27:k:39:HIS:CD2	2.97	0.47
19:c:35:VAL:HG21	19:c:252:LEU:HD12	1.95	0.47
20:d:29:GLU:OE2	20:d:33:LEU:CD1	2.62	0.47
21:e:166:ARG:C	21:e:168:THR:N	2.71	0.47
23:g:46:ILE:O	23:g:46:ILE:CG2	2.48	0.47
26:j:25:LEU:HD21	26:j:32:GLY:HA2	1.96	0.47
2:H:27:LEU:O	2:H:31:LEU:HG	2.14	0.47
3:Q:191:LYS:CD	6:K:36:SER:HB3	2.44	0.47
3:Q:415:MET:SD	3:Q:475:ILE:HD11	2.54	0.47
4:R:1:MET:N	4:R:99:VAL:H	2.12	0.47
17:a:312:ASN:OD1	17:a:328:LEU:O	2.33	0.47
17:a:476:LEU:C	17:a:476:LEU:HD12	2.39	0.47
17:a:747:ASN:C	17:a:748:ASN:O	2.54	0.47
17:a:758:LYS:HA	17:a:758:LYS:HE3	1.97	0.47
17:a:1048:ILE:C	17:a:1050:GLY:N	2.71	0.47
17:a:1103:ARG:HD3	17:a:1107:ILE:HD11	1.97	0.47
17:a:1167:GLU:O	17:a:1167:GLU:CG	2.62	0.47
17:a:1236:ALA:HB3	17:a:1239:LEU:HD23	1.96	0.47
18:b:463:VAL:HG12	18:b:464:GLY:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:485:ASN:O	18:b:486:THR:CB	2.61	0.47
18:b:654:ARG:HB3	18:b:655:TYR:C	2.36	0.47
18:b:749:ASP:OD2	18:b:1036:PHE:CE2	2.68	0.47
18:b:1185:PRO:C	18:b:1187:ALA:H	2.20	0.47
19:c:130:LEU:CD1	19:c:130:LEU:H	2.21	0.47
19:c:159:ILE:O	19:c:159:ILE:HG13	2.14	0.47
19:c:243:GLU:O	19:c:244:ILE:C	2.57	0.47
20:d:101:ALA:O	20:d:102:GLU:C	2.57	0.47
20:d:126:GLU:O	20:d:130:LEU:HG	2.14	0.47
25:i:100:ILE:C	25:i:101:TYR:CD1	2.93	0.47
28:l:19:THR:HG21	28:l:35:ALA:H	1.78	0.47
2:H:140:ALA:HB1	6:K:54:PHE:HD2	1.79	0.47
5:T:9:TYR:CE2	5:T:155:ASN:HB3	2.50	0.47
7:V:74:SER:O	7:V:78:LYS:HG3	2.15	0.47
8:N:364:HIS:HA	8:N:365:ASP:HA	1.43	0.47
17:a:21:PHE:HZ	17:a:1403:LEU:CD1	2.27	0.47
17:a:358:VAL:HA	17:a:491:ASP:O	2.15	0.47
17:a:856:VAL:CG2	17:a:1067:VAL:HG23	2.45	0.47
17:a:1071:ALA:HB1	17:a:1373:HIS:CG	2.50	0.47
17:a:1082:MET:C	17:a:1086:THR:HG23	2.39	0.47
17:a:1264:VAL:C	17:a:1266:LEU:N	2.72	0.47
17:a:1295:ILE:O	17:a:1295:ILE:HG23	2.14	0.47
18:b:38:PHE:HD2	18:b:158:MET:HE2	1.77	0.47
18:b:225:ILE:CD1	18:b:367:MET:SD	3.03	0.47
18:b:427:GLU:O	18:b:428:PHE:CG	2.67	0.47
18:b:651:ASP:CB	18:b:662:ARG:HB3	2.44	0.47
18:b:747:PHE:N	18:b:747:PHE:HD1	2.13	0.47
18:b:778:MET:HE2	18:b:847:THR:HB	1.96	0.47
18:b:938:VAL:O	18:b:938:VAL:HG12	2.15	0.47
18:b:1056:ARG:HD3	18:b:1056:ARG:N	2.30	0.47
18:b:1088:VAL:O	18:b:1090:ASP:N	2.47	0.47
18:b:1096:ALA:O	18:b:1097:ARG:HB2	2.14	0.47
20:d:88:PHE:O	20:d:92:GLN:HG2	2.14	0.47
21:e:170:LEU:CD2	21:e:171:PRO:HD2	2.45	0.47
23:g:80:TRP:CZ3	23:g:107:LEU:CD2	2.98	0.47
25:i:57:THR:HA	25:i:58:VAL:HB	1.96	0.47
1:F:77:GLN:HB2	1:F:94:GLN:HG2	1.97	0.47
3:Q:310:ILE:HG23	3:Q:311:TRP:N	2.30	0.47
3:Q:326:VAL:HA	3:Q:336:PRO:HD2	1.95	0.47
3:Q:454:PHE:CD2	3:Q:456:PRO:HD3	2.50	0.47
4:R:39:TYR:CD1	4:R:120:PHE:HA	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:65:HIS:NE2	4:R:72:TRP:HB3	2.29	0.47
4:R:78:TRP:CG	4:R:109:VAL:HG11	2.50	0.47
7:V:50:ALA:N	7:V:51:PRO:HD2	2.30	0.47
8:N:353:TYR:HB2	8:N:355:HIS:HB2	1.97	0.47
8:N:415:LEU:HG	8:N:422:ASN:O	2.15	0.47
8:N:422:ASN:HB3	8:N:437:LEU:HA	1.97	0.47
17:a:42:THR:CB	17:a:55:LEU:CB	2.92	0.47
17:a:68:LYS:O	17:a:70:GLN:N	2.47	0.47
17:a:81:GLY:C	17:a:249:PRO:CG	2.76	0.47
17:a:107:CYS:HA	17:a:116:LYS:HD2	1.97	0.47
17:a:431:PRO:O	17:a:432:LEU:CG	2.63	0.47
17:a:506:GLU:C	17:a:508:GLN:H	2.22	0.47
17:a:570:VAL:O	17:a:570:VAL:HG12	2.14	0.47
17:a:605:ASN:N	17:a:606:PRO:CA	2.77	0.47
17:a:884:VAL:HG13	17:a:959:LEU:O	2.15	0.47
17:a:922:GLU:N	17:a:923:ASN:HA	2.29	0.47
17:a:1478:LEU:HD22	20:d:45:THR:HB	1.95	0.47
18:b:34:GLN:N	18:b:35:LEU:HB3	2.28	0.47
18:b:106:LEU:HD22	18:b:106:LEU:N	2.22	0.47
18:b:262:ILE:HA	18:b:263:ARG:HA	1.61	0.47
18:b:496:LYS:HA	18:b:497:PRO:HA	1.66	0.47
18:b:795:THR:C	18:b:797:SER:H	2.22	0.47
18:b:867:VAL:C	18:b:869:SER:H	2.21	0.47
18:b:907:ILE:HG12	18:b:924:ARG:HE	1.80	0.47
18:b:941:VAL:HG12	18:b:955:VAL:HA	1.96	0.47
18:b:951:LYS:NZ	28:l:36:LYS:H	2.13	0.47
19:c:137:ASP:HB3	26:j:16:ASP:HB2	1.95	0.47
21:e:198:GLU:H	21:e:199:THR:HA	1.79	0.47
22:f:99:VAL:O	22:f:100:ASP:C	2.57	0.47
23:g:147:LYS:O	23:g:148:ILE:C	2.57	0.47
1:F:50:GLU:O	1:F:54:MET:HG2	2.15	0.47
1:F:98:ASN:HB2	1:F:101:GLU:HB3	1.97	0.47
3:Q:209:VAL:HG22	6:K:22:GLN:HE21	1.80	0.47
3:Q:224:SER:O	3:Q:226:HIS:ND1	2.48	0.47
5:T:27:ARG:H	5:T:103:TYR:HD1	1.62	0.47
8:N:301:LYS:HB2	8:N:302:PRO:HD2	1.97	0.47
8:N:309:TYR:CE1	8:N:383:LEU:HD23	2.50	0.47
17:a:17:GLU:CD	18:b:1207:LYS:HB2	2.40	0.47
17:a:237:PRO:HA	17:a:240:MET:CE	2.44	0.47
17:a:256:ILE:HD13	17:a:256:ILE:HA	1.73	0.47
17:a:357:THR:OG1	18:b:1092:ILE:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:792:HIS:HB2	17:a:817:GLN:NE2	2.30	0.47
17:a:828:GLU:C	17:a:830:LEU:N	2.73	0.47
17:a:907:LEU:HD23	17:a:907:LEU:H	1.79	0.47
17:a:947:LYS:HB3	17:a:951:PRO:CG	2.44	0.47
17:a:1135:LYS:O	17:a:1139:THR:HG22	2.15	0.47
17:a:1150:THR:CG2	25:i:48:LEU:HD23	2.18	0.47
17:a:1345:LEU:HB3	17:a:1346:GLY:H	1.49	0.47
18:b:317:LEU:HB2	18:b:335:LEU:CD2	2.45	0.47
18:b:366:TYR:CZ	18:b:567:PHE:CZ	3.02	0.47
18:b:474:PHE:O	18:b:475:ALA:C	2.58	0.47
18:b:1095:ARG:HH11	18:b:1098:GLY:H	1.62	0.47
18:b:1207:LYS:O	18:b:1208:ASN:C	2.58	0.47
19:c:45:ILE:HA	19:c:160:ALA:HA	1.97	0.47
20:d:99:GLU:HA	20:d:124:LEU:CD1	2.45	0.47
21:e:30:SER:C	21:e:32:ALA:N	2.72	0.47
21:e:198:GLU:N	21:e:199:THR:CA	2.77	0.47
23:g:83:PHE:HD1	23:g:86:GLU:OE2	1.97	0.47
25:i:86:TYR:CD2	25:i:87:GLN:O	2.68	0.47
28:l:59:GLN:OE1	28:l:59:GLN:HA	2.14	0.47
3:Q:139:GLU:HA	20:d:130:LEU:C	2.40	0.47
3:Q:191:LYS:HE2	6:K:36:SER:HB3	1.97	0.47
8:N:428:VAL:HG23	8:N:434:ARG:NH2	2.30	0.47
17:a:268:LEU:HD22	17:a:329:LYS:HB2	1.97	0.47
17:a:594:LEU:O	17:a:612:LEU:HD12	2.15	0.47
17:a:984:LEU:HB3	17:a:985:LEU:H	1.58	0.47
17:a:1317:ILE:HB	17:a:1318:ASN:CB	2.44	0.47
17:a:1317:ILE:HA	17:a:1318:ASN:HA	1.74	0.47
17:a:1476:SER:O	17:a:1478:LEU:O	2.32	0.47
18:b:264:SER:H	18:b:322:LYS:CE	2.27	0.47
18:b:296:MET:CE	18:b:372:LEU:C	2.52	0.47
18:b:703:GLY:C	18:b:704:TYR:CD1	2.85	0.47
18:b:712:PRO:O	18:b:713:ALA:O	2.32	0.47
20:d:15:LEU:O	20:d:20:GLU:OE2	2.33	0.47
21:e:136:ILE:HD12	21:e:136:ILE:O	2.14	0.47
21:e:142:HIS:HB3	21:e:145:VAL:HG23	1.97	0.47
27:k:70:PHE:CD1	27:k:70:PHE:C	2.92	0.47
3:Q:271:LEU:HB3	3:Q:275:ARG:HA	1.95	0.47
3:Q:467:LEU:O	3:Q:470:GLU:HB3	2.15	0.47
4:R:90:ARG:HG2	4:R:95:GLY:HA2	1.96	0.47
4:R:126:ILE:HD13	4:R:143:THR:HG22	1.96	0.47
5:T:146:PHE:CE1	5:T:149:LYS:HD3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:682:MET:HA	17:a:685:VAL:HG23	1.96	0.47
17:a:1459:TYR:HD1	17:a:1460:SER:H	1.61	0.47
18:b:561:PRO:HB3	18:b:562:ASN:HB2	1.96	0.47
18:b:651:ASP:OD2	18:b:662:ARG:CB	2.63	0.47
18:b:747:PHE:CE1	18:b:1033:ALA:HA	2.50	0.47
18:b:844:PHE:CD1	18:b:844:PHE:O	2.68	0.47
23:g:47:ILE:HB	23:g:78:VAL:O	2.14	0.47
23:g:52:SER:O	23:g:54:THR:N	2.43	0.47
24:h:108:HIS:O	24:h:109:ARG:HB3	2.15	0.47
27:k:24:SER:H	27:k:25:LYS:C	2.22	0.47
5:T:39:VAL:HG12	5:T:41:TYR:H	1.80	0.46
5:T:41:TYR:CE1	5:T:43:LEU:HD12	2.50	0.46
6:K:47:LEU:O	6:K:49:ASN:ND2	2.48	0.46
8:N:309:TYR:CE1	8:N:383:LEU:HA	2.50	0.46
17:a:178:ALA:O	17:a:179:GLN:CD	2.58	0.46
17:a:382:TYR:CZ	17:a:446:ASP:OD1	2.68	0.46
17:a:484:TYR:O	17:a:486:ALA:N	2.48	0.46
17:a:815:THR:O	17:a:818:GLU:N	2.45	0.46
17:a:948:PHE:O	17:a:949:ILE:HG12	2.15	0.46
17:a:1062:SER:CB	17:a:1063:PRO:CA	2.93	0.46
17:a:1295:ILE:HG21	17:a:1309:GLU:CG	2.45	0.46
18:b:115:LEU:HD21	18:b:155:ILE:HD12	1.97	0.46
18:b:455:GLN:HG3	18:b:455:GLN:O	2.14	0.46
18:b:1045:SER:O	18:b:1048:LEU:HB2	2.15	0.46
18:b:1070:LEU:N	18:b:1070:LEU:HD23	2.30	0.46
19:c:33:ARG:O	19:c:37:LEU:HG	2.14	0.46
19:c:65:ARG:HG2	19:c:65:ARG:HH11	1.80	0.46
22:f:99:VAL:CG1	22:f:100:ASP:N	2.78	0.46
23:g:88:VAL:HG12	23:g:89:ASP:N	2.30	0.46
23:g:89:ASP:OD1	23:g:145:ARG:HG2	2.15	0.46
25:i:79:HIS:CD2	25:i:80:GLN:NE2	2.82	0.46
27:k:29:ALA:CB	27:k:75:GLN:HA	2.45	0.46
1:F:196:PHE:HA	8:N:236:TYR:CE1	2.49	0.46
3:Q:332:GLU:OE1	3:Q:345:ILE:N	2.48	0.46
5:T:146:PHE:HD1	5:T:149:LYS:HB3	1.78	0.46
8:N:196:GLU:OE2	8:N:223:GLN:NE2	2.48	0.46
17:a:10:SER:HB3	18:b:1168:TYR:HH	1.73	0.46
17:a:33:SER:HB2	17:a:85:HIS:N	2.30	0.46
17:a:179:GLN:HB2	17:a:180:PRO:HD3	1.97	0.46
17:a:537:VAL:O	17:a:538:ARG:C	2.58	0.46
17:a:573:LYS:NZ	24:h:74:TYR:CZ	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:946:CYS:CA	17:a:947:LYS:C	2.88	0.46
17:a:1163:ASP:O	17:a:1164:THR:HG22	2.15	0.46
18:b:105:ARG:HG2	18:b:189:ILE:HD12	1.96	0.46
18:b:216:PRO:N	18:b:217:SER:HA	2.30	0.46
18:b:255:ILE:HG23	18:b:303:CYS:SG	2.55	0.46
18:b:284:LEU:HD13	18:b:300:MET:HE2	1.93	0.46
18:b:405:MET:O	18:b:406:LEU:HD23	2.15	0.46
18:b:450:GLY:CA	18:b:464:GLY:H	2.27	0.46
18:b:1085:LYS:HB2	18:b:1085:LYS:NZ	2.31	0.46
19:c:107:ALA:O	19:c:153:GLU:HA	2.16	0.46
20:d:9:ASP:OD1	20:d:9:ASP:N	2.47	0.46
21:e:128:GLU:HB3	21:e:129:THR:HB	1.98	0.46
24:h:63:LEU:HD22	24:h:64:ASN:N	2.29	0.46
28:l:31:ASN:ND2	28:l:41:CYS:HA	2.30	0.46
1:F:120:ASN:ND2	2:H:72:GLN:HA	2.30	0.46
1:F:148:GLN:O	1:F:155:TYR:HA	2.16	0.46
3:Q:423:LEU:HD11	3:Q:426:ARG:HB2	1.96	0.46
17:a:91:PRO:HB3	17:a:210:PRO:HG2	1.98	0.46
17:a:110:TRP:HZ2	17:a:180:PRO:CG	2.28	0.46
17:a:183:ARG:NH1	17:a:203:PRO:CB	2.75	0.46
17:a:221:SER:HB2	17:a:224:ASP:CG	2.41	0.46
17:a:518:VAL:HG22	17:a:525:PRO:HA	1.97	0.46
17:a:548:THR:CG2	17:a:550:ASN:HB2	2.46	0.46
17:a:584:LEU:C	17:a:584:LEU:CD2	2.88	0.46
17:a:740:GLU:HG2	17:a:764:ILE:HD12	1.97	0.46
17:a:778:GLY:HA2	17:a:1091:GLY:CA	2.45	0.46
17:a:846:ARG:HD2	17:a:1390:ILE:C	2.34	0.46
17:a:869:ILE:CD1	17:a:872:PHE:CE1	2.91	0.46
17:a:1070:LEU:HD12	17:a:1071:ALA:CA	2.44	0.46
17:a:1070:LEU:CD1	17:a:1071:ALA:N	2.67	0.46
17:a:1082:MET:CG	17:a:1362:ILE:HA	2.41	0.46
17:a:1254:GLU:O	17:a:1256:ASP:N	2.48	0.46
18:b:87:PRO:CA	18:b:113:SER:HB3	2.45	0.46
18:b:189:ILE:O	18:b:189:ILE:CG1	2.52	0.46
18:b:227:SER:O	18:b:228:ALA:HB2	2.15	0.46
18:b:250:ASN:OD1	18:b:251:SER:HB3	2.16	0.46
18:b:471:ARG:NH1	18:b:771:LEU:HD11	2.29	0.46
18:b:488:ILE:CG2	18:b:490:ARG:H	2.28	0.46
18:b:794:THR:O	18:b:1032:ASP:HA	2.15	0.46
18:b:831:ASN:HD21	18:b:833:ALA:CB	2.28	0.46
23:g:145:ARG:O	23:g:146:LEU:HD12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:5:SER:O	2:H:9:THR:HG23	2.16	0.46
6:K:22:GLN:HA	6:K:25:LEU:HD12	1.97	0.46
8:N:467:ILE:O	8:N:470:ARG:HB2	2.15	0.46
17:a:24:LEU:H	18:b:1200:ILE:HA	1.80	0.46
17:a:106:GLU:CG	17:a:144:CYS:HB3	2.44	0.46
17:a:116:LYS:HB2	17:a:147:LYS:HD2	1.97	0.46
17:a:368:ASP:OD2	17:a:649:LYS:CE	2.60	0.46
17:a:422:ARG:O	17:a:423:TYR:C	2.59	0.46
17:a:651:PHE:O	17:a:655:ILE:HG13	2.16	0.46
17:a:761:PHE:O	17:a:764:ILE:HG13	2.15	0.46
17:a:919:ASN:H	17:a:919:ASN:HD22	1.59	0.46
17:a:1371:TYR:CD1	17:a:1371:TYR:C	2.94	0.46
18:b:281:ARG:HD2	25:i:6:TYR:CG	2.49	0.46
18:b:556:ASN:H	18:b:557:PRO:CD	2.29	0.46
18:b:874:MET:HG3	18:b:879:TYR:OH	2.16	0.46
18:b:877:GLY:HA3	18:b:878:THR:HA	1.51	0.46
18:b:1017:GLU:OE2	18:b:1080:TYR:HE1	1.99	0.46
19:c:4:GLU:N	19:c:5:THR:CA	2.74	0.46
21:e:132:GLU:C	21:e:134:ASP:N	2.72	0.46
23:g:138:ILE:HG13	23:g:171:VAL:CG2	2.45	0.46
24:h:108:HIS:HD2	24:h:111:LEU:CD1	2.23	0.46
25:i:33:ASP:O	25:i:34:TYR:O	2.33	0.46
27:k:20:TYR:CZ	27:k:83:LYS:HB3	2.50	0.46
2:H:43:TRP:HB3	2:H:44:PRO:HD3	1.97	0.46
3:Q:144:PHE:O	3:Q:147:SER:OG	2.27	0.46
3:Q:231:TYR:HA	3:Q:298:ILE:HG23	1.96	0.46
3:Q:268:ILE:HD11	3:Q:281:SER:HB3	1.96	0.46
3:Q:429:ILE:HA	3:Q:432:TYR:HB3	1.96	0.46
4:R:58:LEU:HD23	4:R:80:MET:HB2	1.96	0.46
8:N:477:GLN:O	8:N:481:LEU:HG	2.16	0.46
17:a:92:VAL:HG23	17:a:242:ILE:HB	1.97	0.46
17:a:558:TRP:CD1	17:a:657:ARG:HD3	2.50	0.46
17:a:640:TRP:HE3	17:a:641:LYS:HB2	1.80	0.46
17:a:947:LYS:CB	17:a:948:PHE:CA	2.92	0.46
17:a:963:VAL:C	17:a:965:ARG:N	2.74	0.46
17:a:1065:GLU:O	17:a:1066:MET:CB	2.56	0.46
17:a:1166:ILE:CD1	17:a:1169:ASP:O	2.63	0.46
17:a:1194:TRP:CH2	17:a:1262:GLU:CG	2.95	0.46
18:b:215:ALA:O	18:b:217:SER:N	2.48	0.46
18:b:250:ASN:HA	18:b:251:SER:HA	1.63	0.46
18:b:1084:LEU:HD23	18:b:1084:LEU:HA	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:1208:ASN:O	18:b:1210:LYS:N	2.49	0.46
21:e:30:SER:C	21:e:32:ALA:H	2.22	0.46
21:e:116:LYS:O	21:e:118:ILE:N	2.49	0.46
21:e:120:THR:HG23	21:e:121:VAL:N	2.30	0.46
27:k:76:THR:O	27:k:76:THR:HG23	2.14	0.46
7:V:45:ASP:O	7:V:48:THR:OG1	2.18	0.46
7:V:72:ASP:O	7:V:76:GLN:HG3	2.16	0.46
17:a:10:SER:O	17:a:12:PRO:N	2.49	0.46
17:a:63:ILE:O	17:a:63:ILE:HG12	2.14	0.46
17:a:98:LEU:O	17:a:101:ILE:CG2	2.54	0.46
17:a:559:VAL:H	17:a:560:PRO:CA	2.25	0.46
17:a:591:GLY:O	17:a:969:ASN:OD1	2.34	0.46
17:a:641:LYS:HE3	17:a:885:GLU:CD	2.40	0.46
17:a:646:GLU:N	17:a:648:CYS:H	2.09	0.46
17:a:783:PHE:O	17:a:784:GLY:O	2.34	0.46
17:a:809:SER:O	17:a:813:GLY:HA3	2.16	0.46
17:a:946:CYS:HB2	17:a:949:ILE:HG12	1.97	0.46
17:a:1041:ASN:O	17:a:1042:LYS:C	2.59	0.46
17:a:1157:TYR:CD2	25:i:18:GLU:OE2	2.68	0.46
17:a:1442:MET:HA	17:a:1442:MET:CE	2.37	0.46
18:b:38:PHE:C	18:b:40:GLU:N	2.74	0.46
18:b:166:LEU:O	18:b:167:ASN:C	2.58	0.46
18:b:288:CYS:HB3	18:b:297:LEU:CD2	2.32	0.46
19:c:40:ILE:HD12	19:c:173:PRO:HD2	1.97	0.46
23:g:115:LEU:HD13	23:g:163:THR:CG2	2.37	0.46
24:h:40:LEU:HG	24:h:42:ILE:HG23	1.96	0.46
2:H:144:PHE:O	2:H:148:ARG:HG3	2.15	0.46
4:R:21:SER:OG	6:K:89:LEU:HD11	2.15	0.46
5:T:8:TYR:CE1	5:T:122:LYS:HG3	2.51	0.46
5:T:142:ILE:HA	5:T:145:GLU:HG3	1.97	0.46
8:N:561:TYR:O	8:N:564:GLU:HB3	2.16	0.46
17:a:5:GLN:O	17:a:8:PRO:HG3	2.16	0.46
17:a:9:SER:O	17:a:10:SER:O	2.33	0.46
17:a:404:GLU:O	17:a:406:PRO:N	2.48	0.46
17:a:1247:ARG:O	17:a:1248:ASP:O	2.33	0.46
17:a:1290:MET:C	17:a:1291:MET:SD	2.98	0.46
18:b:222:VAL:HG12	18:b:223:ALA:H	1.80	0.46
18:b:311:GLN:O	18:b:311:GLN:CG	2.64	0.46
18:b:456:LYS:HD3	18:b:456:LYS:HA	1.47	0.46
18:b:741:LEU:HD13	18:b:764:LYS:HG2	1.97	0.46
18:b:1027:SER:OG	18:b:1028:GLY:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:c:109:CYS:SG	19:c:149:ARG:O	2.65	0.46
19:c:140:SER:C	19:c:141:ARG:HG3	2.38	0.46
19:c:193:TRP:CE3	19:c:194:PHE:N	2.83	0.46
19:c:240:PRO:HB2	19:c:243:GLU:HG2	1.98	0.46
21:e:82:VAL:HA	21:e:83:GLY:HA3	1.70	0.46
25:i:70:ARG:HG3	25:i:84:VAL:CG2	2.45	0.46
2:H:177:ARG:HH22	4:R:13:ARG:NH2	2.13	0.46
3:Q:320:SER:O	3:Q:426:ARG:NH1	2.49	0.46
4:R:5:TYR:HE1	4:R:97:ARG:HG2	1.80	0.46
4:R:84:GLY:N	4:R:98:PRO:O	2.44	0.46
8:N:96:ASN:O	8:N:98:VAL:N	2.48	0.46
8:N:285:LEU:HD13	8:N:383:LEU:HD12	1.97	0.46
8:N:345:SER:HA	8:N:349:SER:O	2.16	0.46
8:N:556:PHE:HA	8:N:559:LEU:HD12	1.96	0.46
17:a:7:SER:N	17:a:8:PRO:CD	2.79	0.46
17:a:83:PHE:CZ	18:b:1193:GLN:O	2.65	0.46
17:a:272:LEU:HD21	17:a:309:TYR:CZ	2.50	0.46
17:a:573:LYS:CE	24:h:74:TYR:CE2	2.98	0.46
17:a:584:LEU:C	17:a:586:LEU:N	2.73	0.46
17:a:922:GLU:CB	17:a:923:ASN:C	2.89	0.46
17:a:1152:ALA:HB1	25:i:47:GLU:H	1.80	0.46
17:a:1409:GLU:CB	17:a:1410:GLU:HA	2.45	0.46
17:a:1483:GLY:C	20:d:43:ARG:NH1	2.74	0.46
18:b:24:PHE:CD2	18:b:665:TRP:CZ2	3.01	0.46
18:b:215:ALA:O	18:b:217:SER:OG	2.30	0.46
18:b:223:ALA:HB2	18:b:371:MET:SD	2.56	0.46
18:b:733:HIS:HD2	18:b:735:ALA:HB3	1.81	0.46
22:f:75:MET:H	22:f:142:ILE:C	2.23	0.46
3:Q:469:LEU:HA	3:Q:472:SER:HB2	1.98	0.46
4:R:193:LYS:HA	4:R:196:LEU:HG	1.98	0.46
4:R:196:LEU:HD22	4:R:202:LEU:HD13	1.97	0.46
8:N:156:GLN:HA	8:N:159:HIS:CD2	2.48	0.46
8:N:226:LEU:HD23	8:N:228:ASP:H	1.81	0.46
8:N:503:PHE:HE2	8:N:522:VAL:HB	1.79	0.46
17:a:154:LEU:N	17:a:173:GLY:O	2.48	0.46
17:a:156:ALA:O	17:a:157:GLY:O	2.32	0.46
17:a:448:VAL:HG23	17:a:497:VAL:HA	1.98	0.46
17:a:462:MET:CE	17:a:513:VAL:HA	2.26	0.46
17:a:462:MET:HE1	17:a:527:MET:HE1	1.97	0.46
17:a:683:LYS:O	17:a:686:THR:HG22	2.15	0.46
17:a:724:VAL:C	17:a:726:ARG:N	2.72	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1152:ALA:HB1	25:i:46:HIS:HB3	1.98	0.46
17:a:1188:LEU:C	17:a:1189:TYR:CD1	2.93	0.46
17:a:1201:ASP:O	17:a:1205:MET:HG2	2.15	0.46
17:a:1299:ILE:HD11	17:a:1305:GLU:CG	2.34	0.46
18:b:31:ALA:H	18:b:482:ARG:NH2	2.04	0.46
18:b:203:SER:HB2	18:b:226:ARG:HE	1.81	0.46
18:b:379:ARG:NH1	18:b:607:GLU:HG2	2.30	0.46
18:b:501:HIS:CD2	18:b:503:THR:OG1	2.69	0.46
18:b:759:GLN:C	18:b:759:GLN:CD	2.84	0.46
18:b:778:MET:HG3	18:b:954:LYS:HD3	1.98	0.46
18:b:875:LYS:O	18:b:876:HIS:C	2.58	0.46
18:b:890:PRO:HA	18:b:891:GLY:HA2	1.54	0.46
19:c:65:ARG:HH12	19:c:145:ILE:CA	2.23	0.46
21:e:75:GLU:H	21:e:103:ILE:CD1	2.29	0.46
26:j:51:THR:O	26:j:51:THR:HG23	2.16	0.46
2:H:77:TYR:O	3:Q:155:GLN:N	2.49	0.46
2:H:196:LYS:HG3	4:R:52:PRO:HG3	1.98	0.46
3:Q:216:TRP:HH2	3:Q:299:TYR:CE1	2.34	0.46
3:Q:329:THR:HG23	3:Q:334:LEU:HD21	1.99	0.46
4:R:147:SER:HA	4:R:157:HIS:CD2	2.50	0.46
5:T:111:ALA:HB3	5:T:127:HIS:HB3	1.98	0.46
8:N:154:ILE:O	8:N:158:LEU:HG	2.16	0.46
8:N:375:ASP:HA	8:N:376:HIS:C	2.41	0.46
16:J:184:UNK:O	16:J:188:UNK:N	2.49	0.46
17:a:59:ARG:H	17:a:60:LEU:HD23	1.79	0.46
17:a:148:MET:C	17:a:149:VAL:CG2	2.82	0.46
17:a:372:VAL:HG21	17:a:466:ILE:CG2	2.41	0.46
17:a:374:ARG:NH1	17:a:374:ARG:CB	2.62	0.46
17:a:676:ILE:O	17:a:676:ILE:HG13	2.16	0.46
17:a:879:LEU:HD13	17:a:960:PRO:CG	2.44	0.46
17:a:1134:ALA:O	17:a:1138:GLN:HG3	2.16	0.46
17:a:1201:ASP:C	17:a:1203:ALA:H	2.23	0.46
17:a:1264:VAL:O	17:a:1266:LEU:N	2.49	0.46
17:a:1455:MET:O	17:a:1459:TYR:HB2	2.16	0.46
18:b:42:VAL:CA	18:b:43:GLN:C	2.89	0.46
18:b:247:ASN:O	18:b:249:GLU:N	2.48	0.46
18:b:385:ASP:O	18:b:386:HIS:C	2.59	0.46
18:b:522:VAL:C	18:b:523:LYS:HG3	2.41	0.46
18:b:755:ARG:N	18:b:755:ARG:HD2	2.30	0.46
18:b:870:THR:O	18:b:870:THR:OG1	2.34	0.46
25:i:29:CYS:SG	25:i:30:ARG:N	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:107:GLU:O	3:Q:111:GLN:HG2	2.17	0.45
3:Q:423:LEU:HG	3:Q:427:PRO:HD3	1.97	0.45
3:Q:440:GLU:OE1	3:Q:523:LEU:HD22	2.15	0.45
5:T:23:ASP:OD1	8:N:495:TYR:OH	2.22	0.45
6:K:15:SER:OG	6:K:23:ASN:ND2	2.44	0.45
8:N:496:TYR:CE2	8:N:502:THR:HG22	2.50	0.45
17:a:205:LYS:C	17:a:206:ARG:CG	2.87	0.45
17:a:340:GLY:O	17:a:341:ARG:O	2.34	0.45
17:a:434:TYR:O	17:a:434:TYR:HD1	1.99	0.45
17:a:474:PHE:HE1	17:a:495:MET:HE2	1.77	0.45
17:a:602:SER:C	17:a:604:SER:N	2.72	0.45
17:a:670:ILE:HG21	17:a:752:MET:HE1	1.98	0.45
17:a:763:ASN:ND2	18:b:1008:SER:HA	2.31	0.45
17:a:1069:THR:O	17:a:1073:GLN:HG3	2.16	0.45
18:b:234:ARG:NH2	18:b:408:ARG:NH2	2.63	0.45
18:b:310:ILE:O	18:b:315:ILE:CD1	2.64	0.45
18:b:534:GLY:HA3	18:b:616:ALA:HB2	1.98	0.45
18:b:641:ARG:O	18:b:642:LYS:C	2.59	0.45
18:b:685:VAL:CG1	18:b:729:HIS:CE1	2.99	0.45
18:b:865:ARG:HG3	18:b:865:ARG:O	2.16	0.45
18:b:938:VAL:HA	18:b:957:MET:HA	1.98	0.45
19:c:14:LYS:O	19:c:241:PRO:HG3	2.16	0.45
19:c:95:TYR:CE1	19:c:161:LYS:HE2	2.51	0.45
19:c:210:TRP:O	19:c:211:GLU:CG	2.62	0.45
19:c:216:GLU:OE1	19:c:216:GLU:HA	2.15	0.45
21:e:190:VAL:HG22	21:e:208:ILE:CG2	2.39	0.45
23:g:90:ALA:O	23:g:143:ASN:CA	2.63	0.45
23:g:150:GLY:O	23:g:160:ALA:CA	2.64	0.45
24:h:74:TYR:CE1	24:h:76:MET:CG	2.95	0.45
27:k:9:LEU:HD21	27:k:68:HIS:CE1	2.51	0.45
27:k:81:SER:HB2	27:k:84:GLN:HB2	1.97	0.45
3:Q:317:GLU:OE2	3:Q:421:ALA:HB1	2.16	0.45
3:Q:384:CYS:O	3:Q:387:ASP:HB2	2.16	0.45
4:R:171:THR:HB	4:R:189:LEU:HD11	1.97	0.45
5:T:26:VAL:HA	5:T:103:TYR:HB3	1.98	0.45
5:T:102:ILE:HA	5:T:111:ALA:HA	1.98	0.45
5:T:114:ASN:HB3	5:T:121:TRP:CZ3	2.51	0.45
7:V:12:GLN:O	7:V:16:THR:HG23	2.16	0.45
8:N:532:LEU:HB2	8:N:534:ALA:O	2.16	0.45
14:I:64:GLU:C	14:I:66:GLU:H	2.24	0.45
17:a:20:GLN:N	18:b:1203:ARG:O	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:94:HIS:H	17:a:98:LEU:HG	1.80	0.45
17:a:131:ARG:O	17:a:136:ARG:NE	2.49	0.45
17:a:158:SER:O	17:a:158:SER:OG	2.33	0.45
17:a:254:PRO:CG	17:a:266:ASP:OD2	2.64	0.45
17:a:359:ILE:C	17:a:359:ILE:CD1	2.88	0.45
17:a:778:GLY:HA3	17:a:1092:VAL:N	2.31	0.45
17:a:919:ASN:O	17:a:920:SER:OG	2.34	0.45
17:a:1386:HIS:ND1	21:e:174:GLN:NE2	2.64	0.45
17:a:1478:LEU:HD23	20:d:45:THR:N	2.30	0.45
18:b:501:HIS:O	18:b:502:ASN:C	2.59	0.45
18:b:1076:LEU:HD23	18:b:1077:GLY:N	2.32	0.45
18:b:1122:MET:HE3	18:b:1122:MET:HA	1.97	0.45
18:b:1205:PHE:HD2	18:b:1210:LYS:CB	2.26	0.45
19:c:39:GLU:OE2	19:c:166:LYS:NZ	2.49	0.45
20:d:57:LYS:HB3	20:d:61:TYR:CE1	2.51	0.45
23:g:80:TRP:CH2	23:g:107:LEU:HD23	2.52	0.45
23:g:144:VAL:HG11	23:g:164:MET:CE	2.46	0.45
24:h:104:ILE:CD1	24:h:110:LYS:HE3	2.47	0.45
25:i:12:ASN:ND2	25:i:29:CYS:SG	2.83	0.45
27:k:9:LEU:O	27:k:9:LEU:HD23	2.16	0.45
1:F:147:PRO:HB3	1:F:157:TYR:CZ	2.51	0.45
2:H:82:PHE:HZ	2:H:88:GLU:HA	1.82	0.45
4:R:27:ASP:HB2	4:R:132:PHE:HB2	1.97	0.45
5:T:99:GLU:C	5:T:113:ALA:HB1	2.41	0.45
8:N:289:SER:HA	8:N:290:TRP:HA	1.60	0.45
8:N:453:ALA:O	8:N:457:ILE:HG13	2.16	0.45
17:a:86:ILE:O	17:a:87:GLU:O	2.35	0.45
17:a:87:GLU:O	17:a:88:LEU:HG	2.15	0.45
17:a:94:HIS:CD2	17:a:97:PHE:HD1	2.34	0.45
17:a:288:GLU:HA	17:a:289:GLY:HA3	1.55	0.45
17:a:605:ASN:CG	24:h:26:ARG:HH12	2.23	0.45
17:a:822:HIS:CD2	18:b:753:SER:CB	2.99	0.45
17:a:1260:ILE:HA	17:a:1261:GLU:HB3	1.98	0.45
18:b:688:ALA:CB	18:b:694:LEU:HD21	2.46	0.45
18:b:930:LEU:HD23	18:b:931:ARG:N	2.31	0.45
18:b:1023:VAL:O	18:b:1023:VAL:CG1	2.64	0.45
18:b:1207:LYS:C	18:b:1209:HIS:H	2.23	0.45
19:c:24:THR:O	19:c:227:ARG:HG2	2.17	0.45
19:c:87:THR:HG21	19:c:161:LYS:CG	2.46	0.45
19:c:222:PHE:C	19:c:224:GLU:N	2.74	0.45
23:g:51:ASP:OD1	23:g:55:ILE:CD1	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:i:7:CYS:CB	25:i:34:TYR:CD2	2.96	0.45
25:i:25:LEU:CD1	25:i:38:ALA:CB	2.93	0.45
2:H:65:ALA:HB3	2:H:67:HIS:ND1	2.31	0.45
4:R:127:GLN:N	4:R:142:GLN:O	2.49	0.45
5:T:27:ARG:HD3	5:T:104:GLU:HG3	1.98	0.45
17:a:116:LYS:NZ	17:a:228:LEU:HD21	2.31	0.45
17:a:838:ALA:HB1	17:a:842:TYR:HE2	1.81	0.45
17:a:1094:SER:O	17:a:1095:LYS:O	2.35	0.45
17:a:1135:LYS:HA	17:a:1138:GLN:CG	2.47	0.45
17:a:1152:ALA:CB	25:i:47:GLU:H	2.29	0.45
17:a:1191:GLN:OE1	17:a:1246:ILE:HA	2.17	0.45
17:a:1260:ILE:HD12	25:i:30:ARG:HH22	1.75	0.45
18:b:32:ARG:CA	18:b:35:LEU:HD12	2.46	0.45
18:b:423:GLU:O	18:b:424:THR:HG23	2.16	0.45
18:b:576:HIS:CD2	18:b:577:ARG:C	2.94	0.45
18:b:759:GLN:CG	18:b:972:ARG:HA	2.44	0.45
18:b:798:MET:C	18:b:800:TYR:N	2.72	0.45
18:b:944:THR:HG23	18:b:945:THR:N	2.32	0.45
18:b:1021:SER:O	18:b:1022:LYS:C	2.59	0.45
19:c:6:HIS:HA	19:c:22:THR:HB	1.97	0.45
19:c:105:LEU:HD13	19:c:156:LEU:HD12	1.97	0.45
20:d:85:PHE:CE2	20:d:115:ILE:HD11	2.51	0.45
25:i:73:LYS:CA	25:i:81:HIS:CD2	3.00	0.45
27:k:97:LEU:O	27:k:100:ILE:HG12	2.16	0.45
3:Q:441:PHE:CD1	3:Q:523:LEU:HD21	2.48	0.45
4:R:36:TRP:CZ3	4:R:57:ARG:HD3	2.52	0.45
4:R:91:GLU:O	4:R:93:LYS:HG3	2.16	0.45
5:T:94:GLN:HB3	19:c:89:ASN:C	2.40	0.45
8:N:166:ARG:HA	8:N:169:LEU:HD12	1.97	0.45
13:2:104:THR:H	13:2:115:LYS:HA	1.81	0.45
17:a:16:VAL:CG2	18:b:1182:VAL:HG22	2.47	0.45
17:a:23:ILE:HD12	17:a:235:ALA:CB	2.46	0.45
17:a:64:ASP:O	17:a:75:THR:OG1	2.30	0.45
17:a:90:LYS:HD3	17:a:282:VAL:CG1	2.44	0.45
17:a:162:ASP:HA	17:a:165:ASN:N	2.31	0.45
17:a:169:ASN:C	17:a:169:ASN:ND2	2.75	0.45
17:a:181:THR:HG22	17:a:182:ILE:N	2.22	0.45
17:a:342:LEU:HD11	17:a:1409:GLU:OE2	2.17	0.45
17:a:638:THR:HG23	17:a:965:ARG:HH21	1.74	0.45
17:a:642:GLU:HA	17:a:643:LYS:HA	1.68	0.45
17:a:760:SER:O	17:a:763:ASN:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:775:ILE:O	17:a:775:ILE:CD1	2.63	0.45
17:a:781:ILE:HD12	17:a:782:PRO:CD	2.45	0.45
17:a:810:TYR:CD2	18:b:751:ASN:C	2.95	0.45
18:b:469:LEU:HD13	18:b:471:ARG:NE	2.32	0.45
18:b:593:LEU:HD12	18:b:670:SER:HB2	1.98	0.45
18:b:651:ASP:HB3	18:b:662:ARG:HB3	1.99	0.45
18:b:759:GLN:C	18:b:759:GLN:OE1	2.59	0.45
18:b:829:ILE:O	18:b:829:ILE:CG1	2.64	0.45
18:b:921:HIS:HA	18:b:922:ALA:HA	1.69	0.45
18:b:966:GLY:O	18:b:1088:VAL:HG22	2.16	0.45
19:c:69:ILE:HA	19:c:70:PRO:HD3	1.83	0.45
20:d:69:LYS:C	20:d:70:THR:HG23	2.31	0.45
23:g:14:LEU:CD2	23:g:27:LEU:CD2	2.92	0.45
23:g:15:HIS:CG	23:g:16:PRO:HD2	2.51	0.45
23:g:122:PHE:CD1	23:g:122:PHE:O	2.70	0.45
25:i:5:GLN:O	25:i:14:LEU:CD1	2.64	0.45
25:i:53:VAL:HG12	25:i:56:THR:CG2	2.45	0.45
27:k:13:MET:O	27:k:15:LEU:HG	2.17	0.45
2:H:134:ASP:HA	2:H:137:TRP:CD1	2.47	0.45
3:Q:138:ILE:O	3:Q:141:ILE:HG12	2.16	0.45
3:Q:458:TYR:HE2	7:V:112:ASN:OD1	1.98	0.45
4:R:14:ARG:O	4:R:18:VAL:HG23	2.17	0.45
6:K:108:SER:HA	6:K:111:LEU:HB2	1.98	0.45
8:N:532:LEU:CB	8:N:535:ALA:HA	2.47	0.45
13:2:8:THR:O	13:2:12:LEU:N	2.48	0.45
17:a:148:MET:O	17:a:179:GLN:CA	2.58	0.45
17:a:254:PRO:HG2	17:a:266:ASP:HB2	1.97	0.45
17:a:266:ASP:C	17:a:269:THR:HG23	2.37	0.45
17:a:856:VAL:HG23	17:a:1065:GLU:HB3	1.98	0.45
17:a:965:ARG:O	17:a:968:GLN:C	2.60	0.45
17:a:1062:SER:HB2	17:a:1063:PRO:CA	2.47	0.45
17:a:1166:ILE:HG12	17:a:1166:ILE:O	2.17	0.45
17:a:1218:LYS:HD2	17:a:1278:SER:CB	2.46	0.45
17:a:1372:ARG:O	17:a:1375:ALA:HB3	2.17	0.45
18:b:41:PHE:HB3	18:b:42:VAL:HG23	1.98	0.45
18:b:534:GLY:CA	18:b:616:ALA:HB2	2.47	0.45
18:b:942:MET:HB2	28:l:50:TYR:HE1	1.81	0.45
19:c:131:GLY:O	19:c:132:HIS:C	2.60	0.45
21:e:197:SER:HB3	21:e:199:THR:HB	1.98	0.45
22:f:95:ALA:CB	22:f:96:PRO:HD2	2.42	0.45
24:h:80:VAL:CG2	24:h:95:VAL:HG22	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:k:7:TYR:CD1	27:k:7:TYR:C	2.95	0.45
1:F:134:TYR:CZ	1:F:138:LYS:HD2	2.52	0.45
4:R:115:LYS:O	5:T:49:THR:HA	2.16	0.45
5:T:44:TYR:O	5:T:51:LYS:HG3	2.16	0.45
5:T:92:PHE:HB3	5:T:118:LYS:NZ	2.32	0.45
5:T:108:PHE:HB3	5:T:130:TYR:HD1	1.82	0.45
17:a:11:VAL:O	17:a:11:VAL:HG23	2.16	0.45
17:a:26:PRO:HD2	17:a:239:TRP:HE1	1.78	0.45
17:a:101:ILE:CD1	17:a:217:PHE:HE2	2.22	0.45
17:a:106:GLU:HB2	17:a:144:CYS:CB	2.46	0.45
17:a:192:SER:CB	17:a:202:LEU:C	2.88	0.45
17:a:431:PRO:O	17:a:432:LEU:HG	2.16	0.45
17:a:459:MET:HE1	17:a:519:SER:HB2	1.97	0.45
17:a:826:GLY:O	17:a:830:LEU:HB2	2.17	0.45
17:a:1087:PHE:O	17:a:1090:ALA:CB	2.64	0.45
18:b:325:SER:O	18:b:326:THR:HG23	2.15	0.45
18:b:869:SER:C	18:b:870:THR:HG23	2.38	0.45
19:c:40:ILE:CD1	19:c:173:PRO:HD2	2.46	0.45
24:h:80:VAL:O	24:h:94:TYR:O	2.35	0.45
2:H:144:PHE:CE2	2:H:148:ARG:HD2	2.51	0.45
4:R:3:GLU:O	4:R:96:ILE:HA	2.17	0.45
13:2:106:ASN:N	13:2:112:ILE:O	2.37	0.45
17:a:87:GLU:OE1	17:a:88:LEU:N	2.50	0.45
17:a:90:LYS:HE3	17:a:299:GLU:CG	2.36	0.45
17:a:94:HIS:CD2	17:a:97:PHE:HB2	2.27	0.45
17:a:740:GLU:OE2	17:a:764:ILE:CB	2.57	0.45
17:a:809:SER:C	17:a:811:LEU:N	2.73	0.45
17:a:922:GLU:CB	17:a:924:ASP:N	2.80	0.45
17:a:1444:THR:CG2	18:b:1133:SER:OG	2.64	0.45
18:b:101:PRO:HG3	18:b:111:TYR:CD1	2.51	0.45
18:b:106:LEU:C	18:b:108:ASN:N	2.75	0.45
18:b:504:HIS:C	18:b:508:VAL:HG23	2.42	0.45
18:b:508:VAL:O	18:b:508:VAL:HG12	2.15	0.45
18:b:733:HIS:CD2	18:b:735:ALA:HB3	2.52	0.45
18:b:741:LEU:HD22	18:b:760:SER:O	2.16	0.45
18:b:789:GLN:HB3	26:j:51:THR:O	2.16	0.45
18:b:862:GLU:HG2	18:b:863:PHE:N	2.32	0.45
18:b:942:MET:HB2	28:l:50:TYR:CD1	2.51	0.45
18:b:969:PHE:CE2	18:b:1083:ARG:HG2	2.52	0.45
18:b:1000:ILE:O	18:b:1000:ILE:CG1	2.65	0.45
18:b:1022:LYS:O	18:b:1025:ALA:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:1026:LEU:HA	26:j:46:ARG:NH1	2.32	0.45
20:d:57:LYS:HB3	20:d:61:TYR:HE1	1.81	0.45
20:d:65:PHE:O	20:d:67:ARG:N	2.50	0.45
23:g:14:LEU:CD1	23:g:30:LYS:HD2	2.47	0.45
1:F:137:GLN:HG2	7:V:57:GLU:OE1	2.17	0.45
3:Q:139:GLU:CG	20:d:128:SER:O	2.60	0.45
5:T:11:SER:HB2	5:T:154:ASN:HD22	1.80	0.45
5:T:30:PHE:O	5:T:100:GLY:N	2.49	0.45
5:T:158:VAL:HG12	5:T:160:PRO:HD3	1.99	0.45
8:N:312:GLN:O	8:N:460:ASN:ND2	2.50	0.45
8:N:352:GLU:HB3	8:N:354:ASP:HB2	1.98	0.45
17:a:45:GLU:HG2	17:a:45:GLU:O	2.17	0.45
17:a:96:GLY:C	17:a:98:LEU:N	2.73	0.45
17:a:155:SER:CB	17:a:169:ASN:HB3	2.30	0.45
17:a:208:LEU:O	17:a:209:SER:CB	2.63	0.45
17:a:271:LYS:CB	17:a:322:GLN:HE22	2.20	0.45
17:a:506:GLU:O	17:a:510:ILE:HG12	2.17	0.45
17:a:585:SER:HB3	17:a:618:ILE:HD12	1.99	0.45
17:a:672:ILE:O	17:a:673:GLY:C	2.59	0.45
17:a:778:GLY:HA2	17:a:1092:VAL:HG23	1.99	0.45
17:a:926:SER:O	17:a:927:VAL:C	2.59	0.45
17:a:1006:SER:HA	17:a:1007:ASP:HB3	1.99	0.45
17:a:1117:PRO:O	17:a:1118:SER:C	2.53	0.45
17:a:1480:GLU:OE2	20:d:44:GLU:HG2	2.06	0.45
18:b:325:SER:O	18:b:326:THR:OG1	2.34	0.45
18:b:404:ARG:NH1	18:b:404:ARG:HG2	2.32	0.45
18:b:485:ASN:HB3	18:b:486:THR:H	1.47	0.45
18:b:685:VAL:CG1	18:b:729:HIS:ND1	2.80	0.45
18:b:699:GLN:HB3	18:b:704:TYR:CB	2.46	0.45
18:b:758:TYR:C	18:b:760:SER:N	2.75	0.45
18:b:823:ASN:HB3	18:b:829:ILE:CG2	2.30	0.45
23:g:10:LEU:HD22	23:g:35:VAL:HG22	1.83	0.45
23:g:115:LEU:CG	23:g:163:THR:HG22	2.47	0.45
23:g:138:ILE:CD1	23:g:171:VAL:HG22	2.47	0.45
25:i:7:CYS:HB2	25:i:34:TYR:CE2	2.52	0.45
25:i:25:LEU:HD12	25:i:38:ALA:CB	2.45	0.45
25:i:79:HIS:HD2	25:i:80:GLN:NE2	2.05	0.45
27:k:39:HIS:CD2	27:k:39:HIS:O	2.70	0.45
27:k:64:HIS:HA	27:k:65:PRO:HD3	1.82	0.45
2:H:15:ALA:O	2:H:19:ARG:HG2	2.17	0.45
3:Q:18:LEU:O	3:Q:22:ILE:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:205:TYR:OH	7:V:75:ARG:HG3	2.17	0.45
3:Q:281:SER:OG	3:Q:282:THR:N	2.50	0.45
5:T:32:GLN:O	5:T:98:ILE:N	2.46	0.45
8:N:150:SER:HA	8:N:151:THR:HA	1.79	0.45
8:N:264:ASN:HB3	8:N:268:LYS:HE3	1.99	0.45
8:N:294:LEU:HD23	8:N:309:TYR:HA	1.99	0.45
8:N:413:GLY:O	8:N:415:LEU:N	2.49	0.45
17:a:355:ALA:HB2	18:b:1094:ALA:HA	1.98	0.45
17:a:602:SER:OG	17:a:606:PRO:HG3	2.16	0.45
17:a:846:ARG:NH1	17:a:1391:THR:C	2.57	0.45
17:a:960:PRO:O	17:a:961:VAL:HB	2.17	0.45
17:a:1112:LYS:O	17:a:1114:ILE:HD13	2.17	0.45
18:b:174:LEU:HD22	18:b:179:GLU:OE1	2.17	0.45
18:b:214:ALA:HA	18:b:215:ALA:HA	1.67	0.45
18:b:402:LEU:O	18:b:403:PHE:C	2.59	0.45
18:b:473:THR:O	18:b:474:PHE:C	2.59	0.45
18:b:550:GLU:OE2	18:b:550:GLU:C	2.60	0.45
18:b:855:ILE:HG13	18:b:856:GLY:N	2.23	0.45
18:b:892:THR:O	18:b:894:VAL:HG23	2.17	0.45
18:b:1027:SER:HB2	18:b:1029:PHE:HD2	1.82	0.45
19:c:59:ASP:OD1	19:c:59:ASP:N	2.50	0.45
22:f:66:LYS:O	22:f:69:ARG:NH1	2.50	0.45
22:f:83:ILE:O	22:f:86:THR:N	2.50	0.45
24:h:100:LEU:O	24:h:101:LEU:HD23	2.17	0.45
25:i:7:CYS:HB3	25:i:14:LEU:HD21	1.99	0.45
27:k:60:TYR:O	27:k:61:LYS:HB2	2.16	0.45
1:F:148:GLN:HE22	3:Q:193:ARG:HB2	1.82	0.44
3:Q:243:LEU:O	3:Q:255:VAL:HG13	2.17	0.44
3:Q:460:TRP:HB2	7:V:107:LEU:HD13	1.98	0.44
4:R:200:CYS:SG	4:R:201:ASP:N	2.90	0.44
5:T:126:PHE:HE2	5:T:152:LEU:HD22	1.82	0.44
7:V:113:HIS:CE1	7:V:114:LEU:HG	2.52	0.44
8:N:159:HIS:HA	8:N:162:ASN:ND2	2.32	0.44
8:N:433:GLY:H	8:N:457:ILE:HD13	1.81	0.44
17:a:12:PRO:HB2	17:a:13:LEU:H	1.60	0.44
17:a:23:ILE:O	17:a:24:LEU:O	2.35	0.44
17:a:66:GLN:H	17:a:66:GLN:HG2	1.53	0.44
17:a:488:PHE:C	17:a:490:GLY:N	2.75	0.44
17:a:588:ILE:HD11	17:a:616:GLY:C	2.42	0.44
17:a:602:SER:O	17:a:603:LEU:C	2.60	0.44
17:a:670:ILE:HG22	17:a:748:ASN:CB	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1279:LEU:C	17:a:1281:GLY:H	2.21	0.44
17:a:1362:ILE:HG13	17:a:1362:ILE:O	2.17	0.44
17:a:1431:SER:HA	17:a:1434:ILE:HD11	1.98	0.44
18:b:105:ARG:O	18:b:108:ASN:N	2.50	0.44
18:b:269:VAL:O	18:b:273:ARG:HG3	2.17	0.44
18:b:798:MET:O	18:b:799:GLU:C	2.60	0.44
18:b:1121:GLU:O	18:b:1122:MET:C	2.58	0.44
19:c:33:ARG:HH21	19:c:179:PHE:CB	2.30	0.44
24:h:37:ASN:O	24:h:37:ASN:OD1	2.34	0.44
25:i:72:ASP:OD1	25:i:81:HIS:CE1	2.70	0.44
1:F:147:PRO:HA	1:F:156:THR:O	2.17	0.44
1:F:152:GLN:HE22	3:Q:225:ASN:C	2.25	0.44
1:F:202:PHE:O	1:F:205:SER:OG	2.26	0.44
2:H:137:TRP:CZ2	6:K:45:ILE:HB	2.52	0.44
6:K:102:ASN:HA	6:K:105:PHE:CD2	2.52	0.44
6:K:109:SER:HB3	7:V:98:PRO:HB3	1.99	0.44
8:N:329:HIS:HB3	8:N:331:PHE:CE2	2.52	0.44
8:N:435:LEU:HD12	8:N:450:LEU:HD22	1.99	0.44
17:a:163:LEU:N	17:a:165:ASN:H	2.14	0.44
17:a:236:ARG:N	17:a:239:TRP:CZ3	2.85	0.44
17:a:266:ASP:O	17:a:269:THR:OG1	2.30	0.44
17:a:593:ASN:HD22	17:a:593:ASN:N	2.15	0.44
17:a:775:ILE:HD13	17:a:776:VAL:CA	2.47	0.44
17:a:779:LYS:O	17:a:780:ARG:C	2.60	0.44
17:a:836:LYS:HD2	17:a:1084:LEU:CD1	2.41	0.44
17:a:855:MET:HG2	17:a:856:VAL:N	2.30	0.44
17:a:857:ARG:HG3	17:a:863:ARG:HD2	1.98	0.44
17:a:966:ILE:HD12	17:a:1048:ILE:HG23	1.99	0.44
17:a:967:ILE:O	17:a:970:ALA:HB3	2.17	0.44
17:a:1091:GLY:HA2	17:a:1092:VAL:CB	2.39	0.44
17:a:1136:ASN:O	17:a:1140:GLN:HB2	2.16	0.44
17:a:1160:ASP:C	17:a:1162:GLN:N	2.74	0.44
17:a:1327:GLY:HA3	17:a:1328:VAL:HA	1.66	0.44
18:b:254:THR:HB	18:b:306:GLU:OE2	2.17	0.44
18:b:562:ASN:HA	18:b:563:ALA:C	2.40	0.44
18:b:585:THR:O	18:b:589:LEU:HG	2.16	0.44
18:b:677:LEU:HB3	18:b:682:GLU:OE1	2.17	0.44
18:b:733:HIS:HD2	18:b:735:ALA:H	1.64	0.44
18:b:792:LEU:HD23	18:b:792:LEU:HA	1.81	0.44
22:f:61:GLY:O	22:f:62:LYS:HG3	2.13	0.44
27:k:42:ALA:HB1	27:k:60:TYR:CD1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:131:SER:OG	3:Q:152:SER:N	2.32	0.44
3:Q:401:CYS:HA	6:K:95:TYR:HB3	1.99	0.44
3:Q:478:LEU:O	3:Q:498:THR:HA	2.18	0.44
8:N:228:ASP:HB3	8:N:277:LEU:HD13	2.00	0.44
17:a:15:ARG:HH22	23:g:64:PRO:HG2	1.72	0.44
17:a:110:TRP:CH2	17:a:178:ALA:HA	2.53	0.44
17:a:249:PRO:HB2	17:a:250:PRO:HD2	1.99	0.44
17:a:428:GLY:C	17:a:430:ILE:N	2.74	0.44
17:a:510:ILE:HG13	17:a:511:THR:H	1.81	0.44
17:a:886:TYR:CE2	17:a:956:ARG:HD2	2.50	0.44
17:a:1121:ILE:CG2	17:a:1328:VAL:O	2.65	0.44
17:a:1159:PRO:O	17:a:1160:ASP:C	2.61	0.44
17:a:1288:VAL:HG12	17:a:1289:TYR:H	1.82	0.44
17:a:1476:SER:C	17:a:1478:LEU:N	2.75	0.44
18:b:146:GLU:HA	18:b:147:PRO:HD3	1.81	0.44
18:b:315:ILE:O	18:b:318:ASP:N	2.49	0.44
18:b:317:LEU:CB	18:b:335:LEU:CD2	2.95	0.44
18:b:654:ARG:HD2	18:b:657:ILE:HG13	1.99	0.44
18:b:752:GLN:C	18:b:754:PRO:CD	2.86	0.44
18:b:1022:LYS:HE2	26:j:43:TYR:OH	2.17	0.44
18:b:1189:LYS:HE2	18:b:1193:GLN:HE22	1.83	0.44
19:c:255:LYS:HB3	27:k:41:LEU:HD11	1.99	0.44
21:e:160:LEU:N	21:e:160:LEU:HD23	2.31	0.44
23:g:151:THR:HA	23:g:160:ALA:CA	2.47	0.44
24:h:47:TYR:OH	24:h:125:ARG:HB2	2.18	0.44
26:j:49:ILE:CD1	26:j:50:LEU:N	2.76	0.44
27:k:76:THR:CA	27:k:77:VAL:CB	2.92	0.44
1:F:137:GLN:NE2	7:V:53:VAL:HB	2.33	0.44
3:Q:482:TRP:HB2	3:Q:495:ILE:HD12	2.00	0.44
5:T:25:LEU:HD23	5:T:26:VAL:N	2.31	0.44
5:T:36:LYS:HB2	5:T:93:ARG:O	2.17	0.44
8:N:366:GLY:C	8:N:367:ILE:HG13	2.42	0.44
8:N:486:CYS:HB2	8:N:551:LEU:HD22	1.99	0.44
8:N:499:PRO:O	8:N:501:LEU:HG	2.18	0.44
13:2:15:LYS:O	13:2:19:LEU:N	2.49	0.44
17:a:8:PRO:HG2	18:b:1148:ARG:HD3	1.97	0.44
17:a:129:ARG:C	17:a:131:ARG:N	2.75	0.44
17:a:205:LYS:O	17:a:206:ARG:HB2	2.18	0.44
17:a:321:LEU:CD2	17:a:325:GLY:HA2	2.48	0.44
17:a:596:ARG:HG2	17:a:598:ASP:OD1	2.17	0.44
17:a:902:LYS:C	17:a:1032:LYS:HD3	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1364:PHE:HA	17:a:1365:ASP:HA	1.42	0.44
17:a:1450:TYR:CD1	23:g:61:ARG:CB	3.00	0.44
17:a:1460:SER:O	17:a:1461:LEU:O	2.35	0.44
17:a:1496:PHE:CD2	20:d:33:LEU:HD11	2.51	0.44
18:b:218:PRO:HG2	18:b:219:ILE:H	1.82	0.44
18:b:791:PRO:HB2	18:b:794:THR:HB	2.00	0.44
18:b:839:LEU:HD23	18:b:839:LEU:HA	1.54	0.44
18:b:903:LYS:HD2	18:b:926:VAL:O	2.16	0.44
18:b:1138:GLU:HG2	18:b:1143:CYS:HG	1.81	0.44
19:c:59:ASP:OD2	28:l:53:ARG:NH1	2.49	0.44
20:d:98:CYS:CA	20:d:99:GLU:CB	2.93	0.44
24:h:4:SER:O	24:h:6:LEU:HG	2.17	0.44
24:h:100:LEU:C	24:h:101:LEU:HD23	2.41	0.44
24:h:117:ASP:C	24:h:118:HIS:O	2.59	0.44
24:h:121:LEU:HD23	24:h:122:LEU:N	2.33	0.44
2:H:174:GLU:O	2:H:177:ARG:HB2	2.18	0.44
3:Q:14:LEU:O	3:Q:18:LEU:N	2.50	0.44
3:Q:35:GLN:O	3:Q:39:GLN:N	2.44	0.44
4:R:34:GLU:OE1	4:R:36:TRP:NE1	2.51	0.44
5:T:146:PHE:HA	5:T:149:LYS:HB3	1.99	0.44
17:a:62:THR:HG23	17:a:67:PHE:HB2	2.00	0.44
17:a:148:MET:O	17:a:149:VAL:HG22	2.12	0.44
17:a:271:LYS:HE2	17:a:328:LEU:HB3	1.95	0.44
17:a:342:LEU:C	17:a:342:LEU:CD1	2.90	0.44
17:a:425:LYS:CE	17:a:430:ILE:HG21	2.48	0.44
17:a:785:PHE:CE2	17:a:791:PRO:HG3	2.51	0.44
17:a:1081:GLN:NE2	17:a:1368:TYR:CD2	2.78	0.44
17:a:1124:MET:HB2	17:a:1126:TRP:O	2.17	0.44
17:a:1183:GLU:O	17:a:1185:GLU:N	2.51	0.44
17:a:1478:LEU:HD23	20:d:45:THR:CA	2.47	0.44
18:b:608:LYS:N	18:b:608:LYS:HD2	2.32	0.44
18:b:704:TYR:O	18:b:705:GLU:C	2.60	0.44
18:b:1012:VAL:O	18:b:1012:VAL:HG12	2.18	0.44
18:b:1117:LEU:HB3	18:b:1118:ARG:H	1.62	0.44
18:b:1170:CYS:SG	18:b:1179:PHE:CE1	3.08	0.44
20:d:25:LEU:HD12	23:g:5:LEU:CA	2.48	0.44
20:d:61:TYR:O	20:d:65:PHE:CD2	2.68	0.44
21:e:49:GLY:HA3	21:e:51:ASN:H	1.82	0.44
23:g:65:GLY:O	23:g:66:GLN:CD	2.60	0.44
24:h:33:GLN:C	24:h:35:ASP:N	2.72	0.44
27:k:15:LEU:HA	27:k:16:PRO:HD3	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:139:GLU:HG2	20:d:130:LEU:C	2.43	0.44
3:Q:234:LEU:HB2	3:Q:302:GLN:NE2	2.33	0.44
4:R:30:LYS:HD3	4:R:130:GLU:HB2	2.00	0.44
4:R:60:SER:HB2	4:R:78:TRP:CE3	2.52	0.44
5:T:56:LEU:HB2	5:T:178:LEU:HD11	1.99	0.44
17:a:65:ARG:O	17:a:67:PHE:HD1	2.01	0.44
17:a:244:VAL:O	17:a:245:LEU:O	2.36	0.44
17:a:266:ASP:C	17:a:268:LEU:CB	2.82	0.44
17:a:432:LEU:HD23	17:a:436:TRP:CE2	2.52	0.44
17:a:997:ILE:HA	17:a:1000:LEU:HG	1.99	0.44
17:a:1042:LYS:O	17:a:1046:GLU:HG2	2.18	0.44
18:b:30:LEU:C	18:b:32:ARG:H	2.24	0.44
18:b:404:ARG:HH11	18:b:404:ARG:HG2	1.82	0.44
18:b:423:GLU:C	18:b:425:ASN:H	2.26	0.44
18:b:480:HIS:CD2	18:b:483:ARG:NH1	2.86	0.44
18:b:919:GLN:HA	18:b:920:LEU:HA	1.59	0.44
18:b:924:ARG:HG2	18:b:924:ARG:HH11	1.82	0.44
18:b:1135:VAL:O	18:b:1139:ARG:HG2	2.17	0.44
19:c:9:ILE:HA	19:c:19:PHE:HA	1.99	0.44
19:c:79:PRO:HA	19:c:80:PRO:C	2.43	0.44
19:c:197:ASP:O	19:c:200:ALA:HB3	2.18	0.44
24:h:6:LEU:HB2	24:h:59:ILE:HG13	1.99	0.44
1:F:150:ASN:HB3	1:F:154:GLY:H	1.83	0.44
4:R:1:MET:HB3	4:R:99:VAL:HB	2.00	0.44
4:R:40:ARG:HH22	4:R:42:LYS:HD2	1.83	0.44
5:T:94:GLN:HB3	19:c:89:ASN:O	2.18	0.44
5:T:134:GLU:HB3	5:T:138:LEU:HD12	2.00	0.44
8:N:428:VAL:HG23	8:N:434:ARG:HH21	1.81	0.44
8:N:503:PHE:CE2	8:N:522:VAL:HB	2.53	0.44
16:J:174:UNK:O	16:J:178:UNK:N	2.51	0.44
16:J:176:UNK:O	16:J:180:UNK:N	2.50	0.44
17:a:10:SER:HB2	17:a:11:VAL:H	1.50	0.44
17:a:267:ASP:HB3	17:a:268:LEU:CD2	2.47	0.44
17:a:452:ARG:NH1	17:a:486:ALA:HB2	2.30	0.44
17:a:605:ASN:ND2	24:h:26:ARG:NH1	2.66	0.44
17:a:618:ILE:O	17:a:618:ILE:HD13	2.17	0.44
17:a:836:LYS:CG	17:a:840:THR:CG2	2.84	0.44
17:a:1040:LEU:HD13	17:a:1048:ILE:HD12	1.99	0.44
17:a:1492:VAL:HG12	17:a:1496:PHE:CE2	2.52	0.44
18:b:56:LEU:HG	18:b:415:TYR:HD2	1.83	0.44
18:b:88:THR:OG1	18:b:89:MET:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:399:LEU:HD23	18:b:402:LEU:CD1	2.45	0.44
18:b:488:ILE:CD1	18:b:490:ARG:HG3	2.48	0.44
18:b:505:TRP:CE2	18:b:737:ILE:HD13	2.52	0.44
18:b:583:THR:O	18:b:584:GLU:C	2.61	0.44
18:b:685:VAL:HG11	18:b:729:HIS:CE1	2.53	0.44
18:b:942:MET:HE3	18:b:942:MET:HB3	1.69	0.44
18:b:1088:VAL:C	18:b:1090:ASP:N	2.73	0.44
20:d:99:GLU:HG2	20:d:124:LEU:CG	2.46	0.44
21:e:171:PRO:CB	21:e:207:ARG:HG2	2.36	0.44
23:g:54:THR:CB	23:g:76:ARG:HD2	2.46	0.44
24:h:18:LYS:HD3	24:h:18:LYS:HA	1.86	0.44
24:h:62:ASN:HB3	24:h:63:LEU:CD1	2.48	0.44
27:k:24:SER:OG	27:k:25:LYS:HB2	2.17	0.44
1:F:22:VAL:O	1:F:26:GLY:N	2.48	0.44
5:T:177:LEU:O	5:T:181:LEU:HG	2.18	0.44
12:3:89:ARG:HA	12:3:90:ALA:HA	1.72	0.44
17:a:379:THR:C	17:a:380:LEU:HD23	2.32	0.44
17:a:442:ILE:H	17:a:442:ILE:HG12	1.51	0.44
17:a:495:MET:HE3	17:a:495:MET:HB3	1.78	0.44
17:a:573:LYS:HG2	24:h:75:ILE:N	2.27	0.44
17:a:670:ILE:CG2	17:a:752:MET:HE1	2.48	0.44
17:a:1184:VAL:O	17:a:1186:GLU:HG3	2.17	0.44
17:a:1403:LEU:CB	17:a:1432:GLU:HG3	2.47	0.44
17:a:1444:THR:HG23	18:b:1133:SER:OG	2.18	0.44
18:b:745:ILE:HG12	18:b:748:PRO:HG3	1.99	0.44
18:b:886:GLY:O	18:b:887:LEU:HD23	2.17	0.44
18:b:901:ILE:HD13	18:b:901:ILE:N	2.32	0.44
19:c:12:ILE:HD12	19:c:12:ILE:C	2.42	0.44
19:c:242:ASN:H	19:c:243:GLU:HB2	1.82	0.44
20:d:84:ARG:NH2	20:d:87:LYS:HE3	2.32	0.44
21:e:80:PRO:O	21:e:81:SER:O	2.36	0.44
21:e:101:THR:CG2	21:e:126:THR:HG23	2.35	0.44
21:e:199:THR:N	21:e:201:GLY:H	2.16	0.44
22:f:99:VAL:HG22	22:f:119:LYS:HD2	1.99	0.44
25:i:77:ARG:HG3	25:i:108:PHE:CE2	2.53	0.44
27:k:57:PHE:CD2	27:k:73:ARG:HG2	2.53	0.44
27:k:76:THR:HA	27:k:77:VAL:CB	2.20	0.44
2:H:53:LEU:O	2:H:57:ILE:HD12	2.17	0.44
2:H:141:ARG:HB3	7:V:36:LEU:HB3	1.99	0.44
2:H:142:ILE:O	2:H:146:GLU:HG3	2.18	0.44
3:Q:240:GLY:HA3	3:Q:305:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:7:LEU:O	4:R:203:LYS:N	2.40	0.44
4:R:121:SER:OG	4:R:122:HIS:N	2.49	0.44
4:R:130:GLU:HG2	4:R:139:ARG:HG3	1.99	0.44
6:K:21:VAL:HG21	7:V:82:LEU:HG	2.00	0.44
17:a:129:ARG:O	17:a:131:ARG:N	2.50	0.44
17:a:271:LYS:HZ2	17:a:308:THR:CB	2.31	0.44
17:a:341:ARG:NH1	18:b:1194:GLU:OE1	2.51	0.44
17:a:661:TYR:CD1	17:a:661:TYR:C	2.96	0.44
17:a:839:GLU:CA	17:a:842:TYR:HD2	2.29	0.44
17:a:845:ARG:O	17:a:846:ARG:C	2.57	0.44
17:a:864:ASN:ND2	17:a:865:ALA:N	2.60	0.44
17:a:947:LYS:H	17:a:947:LYS:CD	2.25	0.44
17:a:1009:ILE:C	21:e:162:ARG:NH2	2.76	0.44
17:a:1083:THR:HB	17:a:1101:VAL:HG21	1.99	0.44
18:b:41:PHE:H	18:b:42:VAL:CA	2.30	0.44
18:b:296:MET:HE1	18:b:373:LEU:N	2.24	0.44
18:b:783:ASN:HD22	18:b:1085:LYS:HG2	1.82	0.44
18:b:949:GLY:C	18:b:950:LEU:HD22	2.43	0.44
18:b:990:PHE:CD1	19:c:179:PHE:CE1	3.06	0.44
19:c:75:ASN:C	19:c:76:ILE:HG13	2.41	0.44
19:c:212:GLU:CB	19:c:213:PRO:CA	2.85	0.44
21:e:156:LYS:HG3	21:e:190:VAL:HG21	2.00	0.44
23:g:24:GLN:O	23:g:28:LYS:HG3	2.18	0.44
26:j:44:CYS:SG	26:j:45:CYS:SG	3.10	0.44
26:j:63:ASN:HA	26:j:64:PRO:HD3	1.71	0.44
27:k:76:THR:OG1	27:k:77:VAL:O	2.30	0.44
2:H:77:TYR:CE2	3:Q:157:SER:HB2	2.53	0.43
2:H:107:GLU:O	2:H:110:THR:OG1	2.25	0.43
5:T:37:TRP:HB3	5:T:90:TRP:CE3	2.53	0.43
17:a:121:ASN:HB3	17:a:124:PHE:HD2	1.83	0.43
17:a:170:MET:O	17:a:170:MET:CG	2.53	0.43
17:a:231:ASN:C	17:a:233:GLN:N	2.73	0.43
17:a:254:PRO:CG	18:b:1103:LEU:HD21	2.48	0.43
17:a:266:ASP:O	17:a:269:THR:CB	2.66	0.43
17:a:325:GLY:C	17:a:326:ARG:HG2	2.43	0.43
17:a:749:VAL:O	17:a:749:VAL:CG1	2.66	0.43
17:a:781:ILE:CG2	17:a:803:ARG:HA	2.35	0.43
17:a:820:PHE:HE2	18:b:508:VAL:HG21	1.82	0.43
17:a:1091:GLY:CA	17:a:1092:VAL:CG2	2.95	0.43
17:a:1095:LYS:C	17:a:1097:VAL:N	2.76	0.43
17:a:1442:MET:O	17:a:1444:THR:N	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1451:LEU:HD21	23:g:62:VAL:HG23	1.94	0.43
18:b:166:LEU:O	18:b:168:GLY:N	2.51	0.43
18:b:183:ASP:OD1	18:b:771:LEU:HD22	2.18	0.43
18:b:474:PHE:CE2	18:b:478:LEU:HD11	2.53	0.43
18:b:579:PRO:HB2	18:b:603:ARG:NH2	2.33	0.43
18:b:682:GLU:O	18:b:683:GLU:C	2.60	0.43
18:b:753:SER:O	18:b:756:ASN:N	2.51	0.43
19:c:54:THR:HG23	19:c:152:GLN:HA	1.99	0.43
23:g:14:LEU:HD22	23:g:71:PHE:CE2	2.53	0.43
25:i:20:LYS:NZ	25:i:21:VAL:HG21	2.33	0.43
28:l:23:LEU:HD22	28:l:28:GLY:O	2.18	0.43
1:F:15:GLN:HA	1:F:114:ASN:HD21	1.83	0.43
1:F:137:GLN:HE22	7:V:53:VAL:HB	1.83	0.43
3:Q:384:CYS:HA	3:Q:387:ASP:CG	2.43	0.43
4:R:139:ARG:HB2	4:R:170:TYR:CE2	2.54	0.43
4:R:144:LEU:HD23	4:R:156:PHE:HB2	1.99	0.43
7:V:17:LEU:O	7:V:20:SER:OG	2.27	0.43
8:N:127:THR:O	8:N:131:LEU:N	2.43	0.43
8:N:301:LYS:CD	8:N:304:ARG:HE	2.31	0.43
17:a:148:MET:CA	17:a:179:GLN:HA	2.48	0.43
17:a:563:ASP:HB3	17:a:565:ILE:HG12	1.99	0.43
17:a:655:ILE:C	17:a:657:ARG:H	2.26	0.43
17:a:793:PHE:O	17:a:794:PRO:O	2.36	0.43
17:a:997:ILE:O	17:a:1000:LEU:HG	2.18	0.43
17:a:1401:GLY:O	17:a:1405:ARG:NE	2.51	0.43
18:b:222:VAL:CG1	18:b:223:ALA:N	2.80	0.43
18:b:713:ALA:O	18:b:714:GLN:HG3	2.18	0.43
18:b:792:LEU:HG	18:b:811:ASN:OD1	2.18	0.43
18:b:1002:ASN:OD1	18:b:1003:PRO:HD2	2.18	0.43
18:b:1013:ALA:O	18:b:1014:HIS:C	2.61	0.43
18:b:1040:THR:HG22	18:b:1043:ALA:HB2	1.99	0.43
18:b:1044:VAL:O	18:b:1047:LEU:HB2	2.19	0.43
18:b:1073:GLN:NE2	19:c:192:TYR:HA	2.33	0.43
18:b:1158:ILE:O	18:b:1158:ILE:HG13	2.18	0.43
20:d:45:THR:HG22	20:d:47:GLY:H	1.83	0.43
21:e:78:LYS:O	21:e:80:PRO:HD3	2.19	0.43
21:e:128:GLU:CA	21:e:129:THR:HB	2.48	0.43
22:f:71:THR:HG21	22:f:126:ARG:HH11	1.83	0.43
23:g:138:ILE:CD1	23:g:171:VAL:CG2	2.95	0.43
24:h:71:ALA:O	24:h:72:ALA:HB3	2.18	0.43
25:i:56:THR:O	25:i:57:THR:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:i:96:MET:O	25:i:97:MET:HG3	2.19	0.43
3:Q:76:THR:HA	3:Q:77:GLU:HA	1.61	0.43
3:Q:380:GLU:O	3:Q:383:LYS:HB3	2.19	0.43
3:Q:526:VAL:O	3:Q:530:ILE:HG12	2.18	0.43
4:R:139:ARG:HB2	4:R:170:TYR:HE2	1.83	0.43
6:K:27:LEU:HD11	6:K:68:ILE:HG23	1.99	0.43
6:K:78:GLU:HG2	6:K:81:LYS:HD2	2.00	0.43
8:N:308:TYR:CD2	8:N:327:TYR:HB3	2.53	0.43
16:J:335:UNK:O	16:J:339:UNK:N	2.51	0.43
17:a:91:PRO:HB2	17:a:210:PRO:HG2	2.01	0.43
17:a:95:ILE:O	17:a:96:GLY:O	2.36	0.43
17:a:259:ASP:C	18:b:924:ARG:HD3	2.41	0.43
17:a:336:LYS:CG	17:a:1410:GLU:OE1	2.66	0.43
17:a:684:GLU:O	17:a:684:GLU:HG2	2.19	0.43
17:a:857:ARG:C	17:a:859:ASP:H	2.27	0.43
17:a:963:VAL:C	17:a:965:ARG:H	2.26	0.43
17:a:1164:THR:HG22	17:a:1242:ARG:NH2	2.17	0.43
18:b:16:ASP:C	18:b:19:THR:HG22	2.42	0.43
18:b:206:ASN:OD1	18:b:227:SER:HB2	2.16	0.43
18:b:220:ALA:O	18:b:221:TYR:CG	2.70	0.43
18:b:552:LEU:HB3	18:b:573:LEU:HD13	1.99	0.43
18:b:728:THR:HG23	18:b:729:HIS:H	1.84	0.43
18:b:747:PHE:O	18:b:748:PRO:C	2.61	0.43
18:b:786:TYR:HE1	18:b:843:ILE:HG12	1.83	0.43
18:b:797:SER:O	18:b:797:SER:OG	2.35	0.43
18:b:1040:THR:HG23	18:b:1043:ALA:H	1.82	0.43
18:b:1185:PRO:O	18:b:1187:ALA:N	2.51	0.43
19:c:7:ILE:HA	19:c:20:VAL:O	2.18	0.43
19:c:67:GLY:CA	19:c:170:LYS:HZ2	2.31	0.43
23:g:93:THR:O	23:g:140:LYS:CE	2.66	0.43
23:g:93:THR:HG23	23:g:94:THR:HG23	1.99	0.43
24:h:90:LYS:HG2	24:h:91:VAL:N	2.32	0.43
1:F:55:GLN:O	1:F:59:ASN:N	2.51	0.43
1:F:150:ASN:HB3	1:F:154:GLY:N	2.32	0.43
1:F:202:PHE:O	1:F:206:LEU:HG	2.18	0.43
4:R:4:LEU:O	4:R:170:TYR:HA	2.18	0.43
5:T:12:PRO:O	5:T:14:MET:N	2.44	0.43
5:T:77:GLU:N	5:T:78:PRO:HD2	2.34	0.43
5:T:144:GLN:HA	5:T:147:PHE:CD2	2.48	0.43
8:N:259:LEU:HA	8:N:262:ILE:HD12	2.01	0.43
8:N:874:ALA:O	8:N:876:SER:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2:103:ASP:HA	13:2:115:LYS:HA	2.00	0.43
17:a:55:LEU:O	17:a:60:LEU:HD12	2.18	0.43
17:a:63:ILE:O	17:a:63:ILE:CG1	2.66	0.43
17:a:94:HIS:O	17:a:95:ILE:O	2.36	0.43
17:a:324:SER:O	17:a:326:ARG:HG2	2.18	0.43
17:a:395:GLN:CD	17:a:432:LEU:HD12	2.43	0.43
17:a:425:LYS:HE3	17:a:430:ILE:HG21	2.00	0.43
17:a:467:ARG:O	17:a:467:ARG:HD3	2.18	0.43
17:a:549:ARG:NH1	27:k:50:LEU:HD11	2.34	0.43
17:a:857:ARG:NH1	17:a:857:ARG:HG2	2.32	0.43
17:a:1020:LEU:C	17:a:1022:GLN:N	2.75	0.43
17:a:1114:ILE:O	17:a:1114:ILE:CG1	2.65	0.43
17:a:1138:GLN:HG2	17:a:1312:LEU:HD21	1.98	0.43
17:a:1191:GLN:C	17:a:1191:GLN:OE1	2.61	0.43
17:a:1382:THR:HG23	17:a:1382:THR:O	2.18	0.43
17:a:1480:GLU:OE2	20:d:44:GLU:CD	2.61	0.43
18:b:177:LEU:O	18:b:178:ASN:HB2	2.18	0.43
18:b:225:ILE:O	18:b:227:SER:N	2.52	0.43
18:b:350:ILE:HG22	18:b:351:THR:N	2.33	0.43
19:c:67:GLY:HA3	19:c:170:LYS:HZ2	1.80	0.43
23:g:3:PHE:CD1	23:g:80:TRP:CD1	2.99	0.43
23:g:12:ILE:CG2	23:g:14:LEU:HD13	2.49	0.43
23:g:12:ILE:HD13	23:g:27:LEU:O	2.17	0.43
24:h:60:THR:CG2	24:h:61:SER:H	2.19	0.43
25:i:65:ASP:O	25:i:66:PRO:C	2.61	0.43
25:i:96:MET:HB2	25:i:97:MET:H	1.59	0.43
26:j:35:LEU:C	26:j:37:LYS:N	2.73	0.43
1:F:92:GLN:HG2	1:F:93:LYS:O	2.18	0.43
2:H:188:LEU:HG	4:R:166:ILE:HD12	2.00	0.43
3:Q:538:SER:O	3:Q:542:LYS:HG3	2.19	0.43
8:N:175:ILE:CG2	8:N:177:THR:H	2.29	0.43
8:N:360:VAL:HG11	8:N:382:LEU:HD22	2.00	0.43
8:N:427:LYS:HB2	8:N:434:ARG:HG3	2.01	0.43
8:N:448:ARG:O	8:N:452:ALA:N	2.47	0.43
17:a:15:ARG:NH1	17:a:1438:GLN:HE21	2.05	0.43
17:a:117:ILE:HG23	17:a:118:ASP:H	1.81	0.43
17:a:510:ILE:CD1	18:b:1132:CYS:SG	3.05	0.43
17:a:853:ASP:HB3	17:a:864:ASN:HD22	1.81	0.43
18:b:1154:ILE:O	18:b:1205:PHE:CE1	2.71	0.43
20:d:11:ALA:CB	20:d:13:LEU:N	2.81	0.43
21:e:113:SER:O	21:e:117:ILE:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:e:148:HIS:HA	21:e:193:ILE:HG22	2.00	0.43
21:e:175:LEU:O	21:e:177:ASP:N	2.52	0.43
22:f:71:THR:HG21	22:f:126:ARG:HD2	2.00	0.43
24:h:89:GLU:O	24:h:90:LYS:O	2.36	0.43
1:F:146:PHE:H	1:F:147:PRO:HD2	1.83	0.43
1:F:199:VAL:HG13	8:N:269:PHE:CE1	2.52	0.43
3:Q:322:GLY:HA2	3:Q:326:VAL:O	2.19	0.43
8:N:244:LEU:O	8:N:248:ILE:HG13	2.19	0.43
12:3:98:ASP:O	12:3:102:TYR:N	2.51	0.43
17:a:98:LEU:C	17:a:101:ILE:HG22	2.39	0.43
17:a:158:SER:H	17:a:159:ASP:C	2.26	0.43
17:a:380:LEU:O	17:a:381:THR:CB	2.61	0.43
17:a:383:PRO:HA	17:a:439:GLU:HG2	2.01	0.43
17:a:549:ARG:NH2	27:k:50:LEU:HD11	2.33	0.43
17:a:880:ASP:CA	17:a:1061:VAL:HB	2.49	0.43
17:a:1020:LEU:HD23	17:a:1023:ILE:HD11	2.01	0.43
17:a:1026:ARG:O	17:a:1030:ALA:HB2	2.18	0.43
17:a:1071:ALA:HA	17:a:1373:HIS:CG	2.54	0.43
17:a:1104:LEU:CD1	17:a:1108:LEU:HG	2.48	0.43
17:a:1182:GLU:O	17:a:1183:GLU:HB2	2.18	0.43
17:a:1323:MET:HE3	17:a:1333:THR:OG1	2.18	0.43
18:b:242:LYS:HD3	18:b:244:MET:HE1	2.01	0.43
18:b:353:MET:HB2	18:b:356:PHE:CD2	2.53	0.43
18:b:747:PHE:CE1	18:b:1033:ALA:CB	3.01	0.43
18:b:888:ILE:HD13	18:b:900:ILE:CG2	2.48	0.43
18:b:888:ILE:HD12	18:b:938:VAL:HG21	2.01	0.43
18:b:1085:LYS:C	18:b:1086:HIS:CG	2.96	0.43
24:h:19:GLN:O	24:h:21:TYR:HD1	2.02	0.43
25:i:49:GLN:HE21	25:i:51:SER:H	1.66	0.43
3:Q:161:PRO:N	3:Q:162:PRO:HA	2.34	0.43
3:Q:270:ILE:HB	3:Q:278:ILE:HB	2.00	0.43
3:Q:335:VAL:HG12	3:Q:337:ILE:HG12	2.00	0.43
3:Q:533:HIS:O	3:Q:537:LEU:HB3	2.19	0.43
4:R:18:VAL:HG13	4:R:199:PHE:CD1	2.53	0.43
17:a:48:GLN:HG2	17:a:50:PRO:CG	2.47	0.43
17:a:96:GLY:O	17:a:98:LEU:N	2.52	0.43
17:a:445:GLY:HA2	17:a:446:ASP:O	2.17	0.43
17:a:462:MET:HE1	17:a:527:MET:CE	2.49	0.43
17:a:556:MET:HE3	17:a:562:TRP:NE1	2.33	0.43
17:a:839:GLU:O	17:a:840:THR:C	2.62	0.43
17:a:1151:SER:CA	17:a:1152:ALA:CB	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1179:ILE:C	17:a:1181:ASP:N	2.77	0.43
17:a:1405:ARG:H	17:a:1405:ARG:HG3	1.61	0.43
17:a:1450:TYR:HE2	22:f:125:ARG:HD2	1.84	0.43
18:b:179:GLU:C	18:b:773:ASN:ND2	2.76	0.43
18:b:307:ALA:C	18:b:309:VAL:H	2.25	0.43
18:b:315:ILE:O	18:b:316:ALA:C	2.61	0.43
18:b:654:ARG:CA	18:b:655:TYR:C	2.92	0.43
18:b:816:ILE:HG12	18:b:1001:ILE:CD1	2.39	0.43
19:c:67:GLY:CA	19:c:170:LYS:NZ	2.79	0.43
23:g:100:PHE:CZ	23:g:131:TYR:HB2	2.53	0.43
24:h:93:VAL:H	24:h:104:ILE:HG13	1.83	0.43
25:i:87:GLN:NE2	25:i:97:MET:CE	2.62	0.43
25:i:95:THR:O	25:i:96:MET:O	2.37	0.43
3:Q:221:SER:HB2	3:Q:228:SER:HB3	2.01	0.43
3:Q:270:ILE:N	3:Q:279:GLY:O	2.40	0.43
3:Q:295:LEU:HD23	3:Q:298:ILE:HD12	2.00	0.43
5:T:66:ALA:HB2	5:T:178:LEU:HD21	2.01	0.43
5:T:114:ASN:HB3	5:T:121:TRP:HZ3	1.84	0.43
6:K:105:PHE:HB3	7:V:98:PRO:HG3	2.01	0.43
8:N:289:SER:HB2	8:N:290:TRP:CG	2.54	0.43
8:N:348:ARG:HH21	11:U:136:PHE:CB	2.31	0.43
12:3:42:PHE:H	12:3:46:ALA:CB	2.30	0.43
17:a:90:LYS:CE	17:a:282:VAL:CG1	2.92	0.43
17:a:104:ILE:O	17:a:105:LEU:O	2.37	0.43
17:a:236:ARG:O	17:a:239:TRP:HB2	2.18	0.43
17:a:348:GLY:O	18:b:1118:ARG:NH1	2.52	0.43
17:a:462:MET:HG2	17:a:484:TYR:OH	2.19	0.43
17:a:732:ARG:CG	17:a:733:ASP:N	2.79	0.43
17:a:773:GLN:HB2	17:a:805:PHE:CA	2.49	0.43
17:a:839:GLU:O	17:a:842:TYR:N	2.52	0.43
17:a:1119:LEU:CG	17:a:1314:THR:CB	2.74	0.43
17:a:1127:ILE:HA	17:a:1128:ALA:HA	1.71	0.43
17:a:1282:VAL:HG12	17:a:1285:ILE:CG1	2.37	0.43
18:b:216:PRO:CD	18:b:217:SER:HB3	2.48	0.43
18:b:242:LYS:HB3	18:b:244:MET:SD	2.59	0.43
18:b:455:GLN:O	18:b:456:LYS:O	2.36	0.43
18:b:888:ILE:HG23	18:b:900:ILE:O	2.18	0.43
18:b:1015:LEU:O	18:b:1016:VAL:C	2.62	0.43
19:c:62:LEU:HD23	19:c:62:LEU:HA	1.72	0.43
19:c:108:LYS:CA	19:c:153:GLU:HG2	2.46	0.43
20:d:99:GLU:CG	20:d:124:LEU:CD1	2.90	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:f:64:VAL:HG23	22:f:132:SER:HB2	2.00	0.43
26:j:47:ARG:O	26:j:51:THR:CG2	2.65	0.43
1:F:29:ARG:H	1:F:32:ASN:CG	2.27	0.43
1:F:93:LYS:O	1:F:105:LEU:N	2.41	0.43
1:F:96:ARG:NH1	1:F:102:VAL:HB	2.24	0.43
3:Q:224:SER:HB2	3:Q:245:ARG:HH12	1.84	0.43
3:Q:247:LYS:HB2	3:Q:250:SER:OG	2.18	0.43
5:T:4:HIS:H	5:T:162:TYR:HB2	1.84	0.43
5:T:22:GLN:NE2	5:T:23:ASP:H	2.17	0.43
7:V:63:MET:O	7:V:67:VAL:HG23	2.19	0.43
8:N:117:ASP:O	8:N:121:ALA:N	2.51	0.43
17:a:36:LYS:C	17:a:37:ILE:HG13	2.44	0.43
17:a:65:ARG:C	17:a:67:PHE:CE1	2.97	0.43
17:a:107:CYS:C	17:a:108:VAL:CG2	2.92	0.43
17:a:200:SER:O	17:a:201:ASP:CG	2.61	0.43
17:a:341:ARG:O	17:a:342:LEU:C	2.62	0.43
17:a:523:ASN:ND2	17:a:523:ASN:C	2.76	0.43
17:a:532:ASP:OD1	18:b:824:GLN:NE2	2.51	0.43
17:a:1137:VAL:O	17:a:1138:GLN:C	2.62	0.43
17:a:1218:LYS:HG2	17:a:1221:GLU:OE1	2.19	0.43
18:b:370:ARG:O	18:b:371:MET:C	2.61	0.43
18:b:1170:CYS:HB2	18:b:1175:ASN:H	1.83	0.43
19:c:69:ILE:O	19:c:69:ILE:HG13	2.19	0.43
19:c:179:PHE:H	19:c:179:PHE:HD1	1.66	0.43
19:c:241:PRO:O	19:c:242:ASN:CB	2.66	0.43
21:e:15:TRP:CE2	21:e:19:HIS:CE1	3.07	0.43
23:g:114:HIS:CD2	23:g:115:LEU:CG	3.02	0.43
23:g:135:ASP:OD1	23:g:135:ASP:N	2.51	0.43
26:j:11:GLY:O	26:j:12:LYS:C	2.61	0.43
26:j:47:ARG:HD2	26:j:47:ARG:C	2.44	0.43
2:H:85:LYS:HG2	2:H:87:GLN:HE22	1.84	0.43
6:K:34:ILE:HG12	6:K:64:THR:HB	2.00	0.43
7:V:10:LEU:HA	7:V:13:ARG:HE	1.84	0.43
7:V:113:HIS:ND1	7:V:114:LEU:HG	2.34	0.43
8:N:271:LEU:O	8:N:274:ARG:HB3	2.19	0.43
8:N:539:LEU:HD21	8:N:564:GLU:HB2	2.01	0.43
8:N:555:SER:O	8:N:559:LEU:HG	2.19	0.43
16:J:193:UNK:O	16:J:197:UNK:N	2.52	0.43
17:a:158:SER:CA	17:a:159:ASP:C	2.92	0.43
17:a:480:VAL:CG1	17:a:484:TYR:HE2	2.32	0.43
17:a:520:PRO:HB3	17:a:882:THR:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:529:ILE:HG22	17:a:534:LEU:HG	2.01	0.43
17:a:846:ARG:O	17:a:847:LEU:C	2.61	0.43
17:a:934:GLU:O	17:a:938:LEU:HG	2.19	0.43
17:a:1083:THR:HB	17:a:1101:VAL:CB	2.48	0.43
17:a:1188:LEU:O	17:a:1189:TYR:CB	2.66	0.43
18:b:198:ILE:O	18:b:199:ALA:O	2.36	0.43
18:b:216:PRO:CG	18:b:217:SER:HA	2.45	0.43
18:b:426:ARG:HB3	18:b:427:GLU:H	1.52	0.43
18:b:654:ARG:CB	18:b:662:ARG:HD3	2.47	0.43
18:b:962:ILE:H	18:b:962:ILE:HG12	1.69	0.43
18:b:973:HIS:HE1	18:b:1017:GLU:OE1	2.01	0.43
18:b:1039:VAL:O	18:b:1039:VAL:HG12	2.18	0.43
18:b:1162:SER:O	18:b:1163:TYR:C	2.61	0.43
21:e:49:GLY:HA3	21:e:51:ASN:N	2.34	0.43
22:f:76:THR:O	22:f:77:LYS:C	2.62	0.43
26:j:31:GLU:C	26:j:33:GLU:H	2.26	0.43
5:T:18:LEU:HD21	5:T:150:CYS:HB3	2.01	0.42
5:T:40:GLN:HG3	5:T:90:TRP:N	2.34	0.42
8:N:155:LEU:O	8:N:158:LEU:HB2	2.19	0.42
8:N:283:PHE:HD1	8:N:287:ARG:HG3	1.84	0.42
8:N:353:TYR:N	8:N:354:ASP:HB2	2.34	0.42
8:N:561:TYR:O	8:N:565:VAL:HG23	2.20	0.42
12:3:41:TYR:CA	12:3:46:ALA:HB2	2.47	0.42
17:a:106:GLU:HG2	17:a:144:CYS:HA	2.00	0.42
17:a:151:ASP:HB2	17:a:172:HIS:NE2	2.33	0.42
17:a:250:PRO:O	17:a:251:SER:C	2.61	0.42
17:a:261:THR:O	17:a:261:THR:OG1	2.30	0.42
17:a:511:THR:O	17:a:512:MET:HG2	2.19	0.42
17:a:624:ASP:OD1	17:a:624:ASP:N	2.52	0.42
17:a:918:GLU:HA	17:a:919:ASN:HA	1.64	0.42
17:a:1024:LEU:HA	17:a:1024:LEU:HD23	1.67	0.42
17:a:1083:THR:HB	17:a:1101:VAL:CG2	2.49	0.42
17:a:1094:SER:C	17:a:1095:LYS:CG	2.71	0.42
17:a:1126:TRP:HE3	17:a:1127:ILE:HG23	1.83	0.42
17:a:1140:GLN:HG2	17:a:1280:ARG:HD3	2.01	0.42
17:a:1218:LYS:HA	17:a:1221:GLU:CD	2.43	0.42
18:b:155:ILE:HA	18:b:156:PRO:HD3	1.79	0.42
18:b:235:LEU:CD2	18:b:235:LEU:C	2.90	0.42
18:b:388:GLY:H	18:b:503:THR:HG21	1.84	0.42
18:b:465:VAL:O	18:b:466:SER:CB	2.67	0.42
18:b:659:PRO:CD	18:b:661:GLN:HE21	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:f:106:ASP:O	22:f:110:ILE:HG22	2.18	0.42
25:i:65:ASP:O	25:i:67:THR:N	2.52	0.42
25:i:93:GLY:HA3	25:i:94:ASP:HA	1.58	0.42
26:j:43:TYR:HB2	26:j:44:CYS:CB	2.48	0.42
2:H:145:MET:HA	2:H:148:ARG:HD3	2.01	0.42
8:N:267:HIS:HB2	8:N:356:PHE:CZ	2.54	0.42
8:N:454:GLU:HA	8:N:457:ILE:HD12	2.00	0.42
17:a:12:PRO:C	17:a:13:LEU:HG	2.43	0.42
17:a:66:GLN:N	17:a:67:PHE:CD1	2.88	0.42
17:a:109:CYS:SG	17:a:112:CYS:SG	3.13	0.42
17:a:343:ARG:NE	17:a:1409:GLU:CD	2.62	0.42
17:a:457:HIS:HB3	17:a:459:MET:SD	2.60	0.42
17:a:459:MET:HE3	17:a:459:MET:HB3	1.77	0.42
17:a:566:LEU:HA	17:a:567:PRO:HD3	1.82	0.42
17:a:795:LYS:HG3	25:i:68:LEU:HA	2.01	0.42
17:a:827:ARG:O	17:a:827:ARG:HG2	2.19	0.42
17:a:1083:THR:CB	17:a:1101:VAL:HB	2.49	0.42
17:a:1104:LEU:HD11	17:a:1108:LEU:CG	2.49	0.42
17:a:1124:MET:CG	17:a:1327:GLY:O	2.66	0.42
17:a:1474:GLY:C	17:a:1475:THR:OG1	2.62	0.42
18:b:158:MET:HE2	18:b:158:MET:HB3	1.85	0.42
18:b:298:GLU:O	18:b:299:MET:C	2.62	0.42
18:b:533:VAL:C	18:b:616:ALA:HB2	2.44	0.42
18:b:644:HIS:O	18:b:647:GLN:HB2	2.19	0.42
19:c:36:VAL:HG13	19:c:244:ILE:CG2	2.49	0.42
21:e:23:HIS:HA	21:e:25:ARG:N	2.34	0.42
22:f:72:THR:HA	22:f:73:PRO:HD3	1.86	0.42
22:f:87:ARG:NH1	22:f:121:PRO:HD2	2.35	0.42
23:g:46:ILE:HA	23:g:79:LEU:HD22	1.79	0.42
23:g:95:VAL:HG13	23:g:131:TYR:HD2	1.72	0.42
23:g:100:PHE:CA	23:g:111:VAL:HG12	2.48	0.42
24:h:89:GLU:CG	24:h:90:LYS:H	2.31	0.42
26:j:56:ILE:N	26:j:56:ILE:CD1	2.68	0.42
27:k:45:LEU:C	27:k:49:LEU:HB2	2.45	0.42
3:Q:224:SER:HB2	3:Q:245:ARG:NH1	2.35	0.42
3:Q:532:HIS:CD2	8:N:551:LEU:HD12	2.54	0.42
5:T:92:PHE:HB3	5:T:118:LYS:HZ3	1.84	0.42
6:K:24:ILE:O	6:K:28:GLU:HG3	2.18	0.42
7:V:102:LYS:HG2	7:V:105:ARG:NH2	2.34	0.42
8:N:218:ILE:HG22	8:N:219:VAL:N	2.34	0.42
8:N:447:PRO:HB2	8:N:448:ARG:H	1.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:39:PHE:O	17:a:42:THR:N	2.52	0.42
17:a:155:SER:HB3	17:a:169:ASN:CA	2.40	0.42
17:a:271:LYS:O	17:a:274:ASP:N	2.52	0.42
17:a:414:ASP:CG	17:a:433:ARG:NE	2.78	0.42
17:a:429:ASP:O	17:a:431:PRO:N	2.52	0.42
17:a:446:ASP:O	17:a:466:ILE:HG12	2.20	0.42
17:a:563:ASP:CB	17:a:565:ILE:HG12	2.49	0.42
17:a:602:SER:OG	17:a:604:SER:HB3	2.19	0.42
17:a:744:LYS:HD2	17:a:746:SER:OG	2.20	0.42
17:a:852:GLU:O	17:a:853:ASP:C	2.62	0.42
17:a:908:MET:HG3	17:a:909:GLU:HG3	2.00	0.42
17:a:1295:ILE:HD13	17:a:1309:GLU:OE2	2.19	0.42
18:b:363:PHE:HZ	18:b:572:TRP:H	1.66	0.42
18:b:487:PRO:HA	18:b:488:ILE:HA	1.60	0.42
18:b:651:ASP:OD2	18:b:662:ARG:C	2.63	0.42
18:b:829:ILE:O	18:b:829:ILE:HG13	2.18	0.42
18:b:903:LYS:H	18:b:927:SER:HB3	1.85	0.42
19:c:172:SER:HB2	19:c:174:THR:HG22	2.01	0.42
20:d:66:ALA:C	20:d:68:PHE:H	2.26	0.42
20:d:92:GLN:HA	20:d:95:THR:OG1	2.20	0.42
21:e:77:ALA:CB	21:e:78:LYS:CA	2.97	0.42
21:e:132:GLU:O	21:e:134:ASP:N	2.52	0.42
23:g:130:ASN:ND2	23:g:139:GLU:OE2	2.40	0.42
26:j:49:ILE:HD12	26:j:49:ILE:N	2.33	0.42
26:j:52:HIS:CD2	26:j:53:VAL:H	2.38	0.42
1:F:52:LEU:HD21	1:F:73:LEU:HD13	2.02	0.42
2:H:103:VAL:O	2:H:106:TRP:HB3	2.20	0.42
3:Q:385:LEU:O	3:Q:389:LEU:HG	2.20	0.42
8:N:177:THR:HB	8:N:178:PRO:HA	2.01	0.42
8:N:413:GLY:O	8:N:424:ILE:N	2.52	0.42
13:2:104:THR:N	13:2:115:LYS:HA	2.35	0.42
17:a:23:ILE:O	17:a:23:ILE:HG22	2.18	0.42
17:a:25:SER:CA	17:a:239:TRP:CD1	3.03	0.42
17:a:77:ALA:C	17:a:79:CYS:N	2.60	0.42
17:a:380:LEU:HB3	17:a:381:THR:H	1.63	0.42
17:a:492:GLU:OE2	18:b:1091:LYS:HD3	2.19	0.42
17:a:537:VAL:HG12	17:a:623:VAL:O	2.18	0.42
17:a:770:CYS:HB2	17:a:771:VAL:H	1.51	0.42
17:a:882:THR:HG23	17:a:883:LEU:HG	2.01	0.42
17:a:1170:LYS:CG	17:a:1240:ILE:HD12	2.46	0.42
17:a:1282:VAL:CG2	17:a:1285:ILE:HD12	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1286:THR:HB	17:a:1287:ARG:H	1.59	0.42
17:a:1295:ILE:CG2	17:a:1309:GLU:CG	2.97	0.42
18:b:30:LEU:CD2	18:b:482:ARG:NH2	2.83	0.42
18:b:175:TYR:O	18:b:176:ASP:C	2.63	0.42
18:b:387:PHE:HD1	18:b:503:THR:CG2	2.32	0.42
18:b:457:ARG:O	18:b:458:SER:C	2.62	0.42
18:b:464:GLY:CA	18:b:465:VAL:HB	2.39	0.42
18:b:697:SER:HB3	18:b:721:ASN:HD22	1.84	0.42
18:b:754:PRO:O	18:b:758:TYR:HD1	1.98	0.42
18:b:1111:ARG:O	18:b:1112:SER:OG	2.34	0.42
19:c:63:ALA:HB1	28:l:62:ALA:HA	2.02	0.42
22:f:89:LEU:HA	22:f:89:LEU:HD12	1.78	0.42
22:f:125:ARG:HA	22:f:134:GLU:O	2.20	0.42
24:h:11:PHE:HB3	24:h:29:ALA:HB1	2.01	0.42
24:h:116:LEU:HD12	24:h:116:LEU:N	2.34	0.42
27:k:80:CYS:HA	27:k:81:SER:HA	1.64	0.42
1:F:121:ALA:O	1:F:125:LEU:HG	2.19	0.42
7:V:92:THR:OG1	7:V:93:VAL:N	2.51	0.42
7:V:100:LEU:HG	7:V:104:LYS:HE3	2.01	0.42
8:N:175:ILE:HG22	8:N:177:THR:N	2.32	0.42
8:N:309:TYR:CE1	8:N:383:LEU:CD2	3.03	0.42
8:N:425:ILE:HB	8:N:434:ARG:O	2.19	0.42
17:a:193:TRP:CH2	17:a:206:ARG:HB3	2.53	0.42
17:a:395:GLN:CG	17:a:432:LEU:CD1	2.90	0.42
17:a:405:HIS:C	17:a:407:GLY:N	2.77	0.42
17:a:480:VAL:O	17:a:480:VAL:CG1	2.63	0.42
17:a:558:TRP:CZ3	17:a:661:TYR:CD2	3.08	0.42
17:a:666:ASN:OD1	18:b:1071:VAL:CG2	2.66	0.42
17:a:806:ILE:HD13	17:a:814:LEU:HD21	1.91	0.42
17:a:850:ALA:HB1	17:a:1395:ILE:HG23	2.01	0.42
17:a:1010:THR:HA	21:e:162:ARG:NH2	2.35	0.42
17:a:1083:THR:HG1	17:a:1101:VAL:HG11	1.82	0.42
17:a:1118:SER:OG	17:a:1119:LEU:N	2.53	0.42
17:a:1261:GLU:O	17:a:1263:ASP:N	2.53	0.42
18:b:16:ASP:HA	18:b:19:THR:CG2	2.46	0.42
18:b:198:ILE:HG23	18:b:483:ARG:O	2.19	0.42
18:b:264:SER:H	18:b:322:LYS:NZ	2.17	0.42
18:b:346:LEU:HD13	18:b:346:LEU:HA	1.88	0.42
18:b:376:LEU:O	18:b:377:GLU:HB3	2.20	0.42
18:b:578:ASP:HA	18:b:579:PRO:HD3	1.92	0.42
18:b:745:ILE:O	18:b:746:PRO:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:824:GLN:O	18:b:827:SER:HB3	2.20	0.42
18:b:1192:PHE:CD1	18:b:1202:PRO:HB2	2.55	0.42
19:c:16:SER:HB3	19:c:234:GLU:HG3	2.02	0.42
19:c:26:LEU:O	19:c:29:ALA:HB3	2.20	0.42
19:c:50:ILE:HG22	19:c:156:LEU:HD22	2.00	0.42
20:d:99:GLU:HA	20:d:124:LEU:HD13	2.01	0.42
21:e:15:TRP:CE2	21:e:19:HIS:HE1	2.37	0.42
21:e:166:ARG:O	21:e:168:THR:N	2.53	0.42
22:f:107:PRO:C	22:f:110:ILE:HG22	2.44	0.42
24:h:13:VAL:HG23	24:h:53:ALA:HB3	2.00	0.42
24:h:104:ILE:HD13	24:h:110:LYS:HE3	2.02	0.42
24:h:109:ARG:HA	24:h:110:LYS:HA	1.85	0.42
27:k:25:LYS:HA	27:k:26:SER:HA	1.61	0.42
1:F:197:SER:N	1:F:199:VAL:HG23	2.33	0.42
1:F:199:VAL:HA	1:F:202:PHE:CD2	2.55	0.42
2:H:23:ILE:O	2:H:27:LEU:HG	2.20	0.42
2:H:191:ILE:HG13	2:H:195:MET:HE2	2.00	0.42
3:Q:272:ASN:CG	3:Q:273:LYS:H	2.27	0.42
3:Q:514:GLN:HG3	3:Q:515:TYR:CE1	2.54	0.42
4:R:81:TYR:OH	4:R:101:ARG:HG3	2.19	0.42
5:T:87:THR:HG23	5:T:89:LEU:HD12	2.02	0.42
5:T:139:ALA:O	5:T:143:ILE:HG12	2.19	0.42
7:V:117:VAL:HG12	7:V:119:LEU:H	1.85	0.42
8:N:269:PHE:HA	8:N:272:TYR:CD2	2.54	0.42
8:N:306:ARG:HB3	8:N:308:TYR:CD1	2.54	0.42
14:I:69:THR:CB	17:a:921:ILE:HD11	2.50	0.42
17:a:198:ASP:N	17:a:198:ASP:OD1	2.51	0.42
17:a:332:ARG:HH11	17:a:332:ARG:CG	2.32	0.42
17:a:391:ILE:HD13	17:a:434:TYR:CZ	2.55	0.42
17:a:739:ALA:O	17:a:743:LEU:HG	2.19	0.42
17:a:964:GLN:O	17:a:964:GLN:HG2	2.19	0.42
17:a:1279:LEU:C	17:a:1281:GLY:N	2.77	0.42
17:a:1342:LEU:HD23	17:a:1350:THR:CG2	2.47	0.42
17:a:1347:ILE:O	17:a:1347:ILE:HG12	2.17	0.42
18:b:41:PHE:CD2	18:b:42:VAL:HG23	2.53	0.42
18:b:239:MET:HE3	18:b:239:MET:HB3	1.90	0.42
18:b:262:ILE:N	18:b:262:ILE:CD1	2.82	0.42
18:b:415:TYR:CD1	18:b:415:TYR:C	2.97	0.42
18:b:510:PRO:HB2	18:b:511:ALA:H	1.47	0.42
18:b:657:ILE:HB	18:b:658:ASP:H	1.63	0.42
18:b:857:MET:HB2	18:b:857:MET:HE3	1.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:e:68:ASN:O	21:e:69:LYS:HG2	2.19	0.42
22:f:128:LEU:HB3	22:f:129:PRO:CD	2.50	0.42
23:g:23:MET:O	23:g:26:TYR:N	2.53	0.42
23:g:100:PHE:HZ	23:g:131:TYR:HB2	1.84	0.42
23:g:119:ASP:CB	23:g:134:GLU:OE1	2.68	0.42
26:j:41:GLN:H	26:j:41:GLN:HG3	1.66	0.42
2:H:41:SER:OG	3:Q:105:LYS:HD3	2.20	0.42
3:Q:107:GLU:O	3:Q:110:GLU:HB3	2.19	0.42
3:Q:270:ILE:HG12	3:Q:343:VAL:HG22	2.01	0.42
3:Q:399:LYS:HG2	3:Q:403:LYS:HE2	2.01	0.42
3:Q:478:LEU:O	3:Q:480:ILE:HD12	2.20	0.42
3:Q:529:TYR:HA	3:Q:532:HIS:HD2	1.84	0.42
5:T:39:VAL:HB	5:T:51:LYS:HG2	2.02	0.42
8:N:425:ILE:HG21	8:N:434:ARG:NH1	2.35	0.42
17:a:94:HIS:HE1	17:a:310:MET:HE2	1.84	0.42
17:a:106:GLU:CB	17:a:144:CYS:HG	1.96	0.42
17:a:452:ARG:NH1	17:a:486:ALA:HB1	2.34	0.42
17:a:556:MET:HE3	17:a:562:TRP:CZ2	2.55	0.42
17:a:806:ILE:HG12	17:a:818:GLU:HB3	2.02	0.42
17:a:1119:LEU:HD11	17:a:1121:ILE:CG1	2.47	0.42
17:a:1202:ARG:HA	17:a:1205:MET:HB2	2.02	0.42
17:a:1450:TYR:CE2	22:f:125:ARG:NE	2.88	0.42
18:b:40:GLU:HA	18:b:42:VAL:O	2.19	0.42
18:b:45:THR:O	18:b:49:ILE:HG23	2.20	0.42
18:b:440:THR:CG2	18:b:441:ASN:N	2.81	0.42
18:b:505:TRP:CZ2	18:b:737:ILE:CD1	3.02	0.42
18:b:757:THR:HG22	18:b:758:TYR:CD1	2.54	0.42
18:b:812:ALA:O	18:b:814:VAL:HG23	2.19	0.42
19:c:50:ILE:HD12	19:c:50:ILE:O	2.19	0.42
19:c:188:GLN:C	19:c:190:THR:N	2.78	0.42
20:d:84:ARG:HA	20:d:90:ARG:NH1	2.34	0.42
21:e:72:ILE:HD12	21:e:72:ILE:C	2.43	0.42
22:f:106:ASP:HB3	22:f:109:GLN:HB2	2.01	0.42
27:k:24:SER:N	27:k:25:LYS:C	2.77	0.42
1:F:148:GLN:NE2	3:Q:193:ARG:HB2	2.34	0.42
3:Q:483:ARG:HE	3:Q:494:PHE:HE1	1.67	0.42
3:Q:510:ARG:HA	3:Q:518:ASN:O	2.20	0.42
5:T:57:LYS:HB3	5:T:59:ASN:OD1	2.19	0.42
6:K:38:ALA:O	6:K:41:CYS:HB2	2.19	0.42
17:a:57:ASP:O	17:a:59:ARG:CA	2.67	0.42
17:a:181:THR:O	17:a:182:ILE:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:214:HIS:CE1	17:a:238:ASP:HB2	2.55	0.42
17:a:225:LEU:O	17:a:230:LEU:HB2	2.18	0.42
17:a:372:VAL:O	17:a:468:VAL:C	2.63	0.42
17:a:533:THR:HG22	17:a:660:ASN:OD1	2.20	0.42
17:a:611:MET:HE3	17:a:611:MET:HB3	1.76	0.42
17:a:711:GLU:HA	17:a:712:PRO:HA	1.71	0.42
17:a:748:ASN:C	17:a:750:LYS:H	2.28	0.42
17:a:815:THR:O	17:a:816:PRO:C	2.61	0.42
17:a:847:LEU:H	17:a:847:LEU:HD22	1.85	0.42
17:a:976:LEU:HD12	17:a:1041:ASN:ND2	2.35	0.42
17:a:1238:LYS:HA	17:a:1238:LYS:HD3	1.83	0.42
17:a:1483:GLY:HA2	20:d:43:ARG:NH1	2.35	0.42
18:b:180:CYS:C	18:b:182:TYR:N	2.73	0.42
18:b:443:LEU:HA	18:b:443:LEU:HD23	1.77	0.42
18:b:841:ARG:NH2	19:c:64:HIS:ND1	2.68	0.42
19:c:88:ARG:HD3	27:k:11:GLU:OE1	2.19	0.42
20:d:19:PHE:HE2	23:g:42:GLN:O	1.98	0.42
20:d:52:THR:OG1	20:d:53:ASP:N	2.50	0.42
21:e:58:SER:HB2	21:e:75:GLU:CA	2.27	0.42
21:e:101:THR:CB	21:e:126:THR:HG23	2.50	0.42
21:e:198:GLU:H	21:e:199:THR:CA	2.32	0.42
22:f:87:ARG:O	22:f:88:ALA:C	2.60	0.42
23:g:120:MET:HE3	23:g:138:ILE:HD12	1.92	0.42
25:i:39:ALA:O	25:i:40:THR:HG22	2.19	0.42
3:Q:268:ILE:HG22	3:Q:345:ILE:HG12	2.02	0.42
3:Q:311:TRP:CZ2	3:Q:332:GLU:HA	2.51	0.42
4:R:133:PHE:HD2	4:R:136:THR:OG1	2.03	0.42
16:J:186:UNK:O	16:J:190:UNK:N	2.53	0.42
17:a:131:ARG:O	17:a:132:ASP:C	2.62	0.42
17:a:189:LEU:C	17:a:190:TRP:CD1	2.97	0.42
17:a:288:GLU:HB3	17:a:290:ALA:N	2.33	0.42
17:a:349:LYS:HZ3	18:b:1187:ALA:CB	2.32	0.42
17:a:388:PRO:CA	17:a:434:TYR:HE1	2.29	0.42
17:a:395:GLN:HA	17:a:432:LEU:CD1	2.50	0.42
17:a:963:VAL:O	17:a:965:ARG:N	2.52	0.42
17:a:985:LEU:HD22	17:a:986:PRO:HD2	2.00	0.42
17:a:1119:LEU:O	17:a:1314:THR:N	2.51	0.42
17:a:1131:MET:O	17:a:1134:ALA:N	2.52	0.42
17:a:1242:ARG:C	17:a:1243:CYS:SG	3.03	0.42
18:b:383:ASP:C	18:b:383:ASP:OD1	2.62	0.42
18:b:391:ARG:NE	18:b:618:ARG:HH21	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:508:VAL:CG1	18:b:737:ILE:HG22	2.49	0.42
18:b:553:GLU:HB3	18:b:554:ASP:H	1.59	0.42
18:b:641:ARG:N	18:b:644:HIS:HD2	2.08	0.42
18:b:828:ILE:O	18:b:979:ILE:HA	2.19	0.42
19:c:61:PHE:CD1	19:c:61:PHE:O	2.73	0.42
20:d:71:ALA:O	20:d:75:TYR:HE1	1.99	0.42
23:g:116:VAL:HG12	23:g:117:PRO:CD	2.46	0.42
24:h:76:MET:O	24:h:120:TYR:HA	2.20	0.42
28:l:44:CYS:HB2	28:l:45:GLY:H	1.53	0.42
3:Q:138:ILE:HG23	20:d:128:SER:C	2.35	0.42
3:Q:146:LYS:HD3	20:d:129:THR:HB	1.57	0.42
3:Q:188:PHE:O	3:Q:191:LYS:HB3	2.20	0.42
5:T:12:PRO:HB3	5:T:121:TRP:HZ2	1.85	0.42
5:T:121:TRP:CZ2	5:T:124:ILE:HG13	2.55	0.42
7:V:14:THR:HA	7:V:17:LEU:HD12	2.01	0.42
8:N:431:VAL:O	8:N:432:THR:OG1	2.32	0.42
8:N:475:CYS:O	8:N:479:GLN:HG3	2.20	0.42
8:N:505:LYS:HB3	8:N:508:TRP:O	2.20	0.42
8:N:861:LYS:HA	8:N:862:THR:HA	1.79	0.42
17:a:121:ASN:N	17:a:122:PRO:CD	2.83	0.42
17:a:259:ASP:HA	17:a:260:GLY:HA2	1.54	0.42
17:a:405:HIS:CD2	17:a:406:PRO:HD3	2.54	0.42
17:a:585:SER:HB3	17:a:618:ILE:HG23	2.02	0.42
17:a:587:ILE:HD13	17:a:655:ILE:CG1	2.36	0.42
17:a:589:PRO:O	17:a:592:ILE:CD1	2.67	0.42
17:a:773:GLN:HB2	17:a:804:GLY:O	2.19	0.42
17:a:773:GLN:HB2	17:a:805:PHE:HA	2.01	0.42
17:a:922:GLU:HB2	17:a:924:ASP:N	2.35	0.42
17:a:947:LYS:CG	17:a:951:PRO:HG2	2.50	0.42
17:a:978:ALA:HA	17:a:1039:ARG:NH1	2.35	0.42
17:a:1143:HIS:O	17:a:1144:THR:OG1	2.33	0.42
17:a:1177:PHE:CD2	17:a:1230:ILE:HG21	2.55	0.42
17:a:1195:LEU:CD2	17:a:1242:ARG:NE	2.64	0.42
17:a:1310:TRP:C	17:a:1311:VAL:HG23	2.45	0.42
17:a:1433:ASN:C	17:a:1435:MET:N	2.78	0.42
18:b:263:ARG:CB	18:b:322:LYS:HD2	2.33	0.42
18:b:532:SER:HB3	18:b:618:ARG:H	1.85	0.42
18:b:556:ASN:O	18:b:557:PRO:C	2.61	0.42
18:b:790:LYS:C	18:b:792:LEU:H	2.28	0.42
18:b:1111:ARG:HB3	18:b:1112:SER:H	1.71	0.42
18:b:1195:LEU:HD12	18:b:1202:PRO:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:c:7:ILE:HD11	27:k:103:ASN:O	2.20	0.42
19:c:136:ALA:CB	26:j:16:ASP:OD2	2.67	0.42
20:d:108:ILE:HG22	20:d:108:ILE:O	2.20	0.42
22:f:91:ILE:O	22:f:92:SER:C	2.61	0.42
27:k:44:MET:C	27:k:46:ALA:H	2.23	0.42
27:k:117:GLY:HA3	27:k:118:VAL:HA	1.51	0.42
2:H:6:THR:HG22	3:Q:156:PHE:CZ	2.54	0.41
2:H:53:LEU:HB2	7:V:54:TYR:OH	2.20	0.41
3:Q:211:VAL:O	3:Q:216:TRP:HD1	2.03	0.41
5:T:126:PHE:CD2	5:T:152:LEU:HD13	2.55	0.41
8:N:278:LEU:O	8:N:282:THR:HG23	2.20	0.41
8:N:291:LEU:HD12	8:N:429:ASN:ND2	2.31	0.41
17:a:39:PHE:HD1	17:a:39:PHE:HA	1.71	0.41
17:a:87:GLU:HB2	17:a:88:LEU:H	1.63	0.41
17:a:128:GLN:HB3	17:a:139:ALA:HB3	2.02	0.41
17:a:163:LEU:N	17:a:165:ASN:N	2.68	0.41
17:a:212:GLU:O	17:a:215:THR:OG1	2.34	0.41
17:a:311:ASP:O	17:a:312:ASN:C	2.63	0.41
17:a:347:MET:HE1	17:a:1407:SER:HA	2.01	0.41
17:a:482:SER:HB2	17:a:483:PRO:HD3	2.02	0.41
17:a:526:VAL:O	17:a:526:VAL:CG1	2.67	0.41
17:a:607:THR:O	17:a:608:ASP:C	2.63	0.41
17:a:635:LEU:HD23	17:a:635:LEU:C	2.46	0.41
17:a:708:LEU:CG	17:a:709:LYS:O	2.64	0.41
17:a:793:PHE:CE2	17:a:802:SER:HB2	2.55	0.41
17:a:838:ALA:O	17:a:839:GLU:C	2.61	0.41
17:a:985:LEU:HD13	17:a:987:SER:H	1.85	0.41
17:a:1076:GLY:N	17:a:1078:PRO:HD2	2.34	0.41
17:a:1167:GLU:O	17:a:1167:GLU:OE2	2.37	0.41
18:b:362:PHE:O	18:b:365:GLY:N	2.53	0.41
18:b:396:GLY:O	18:b:398:LEU:N	2.52	0.41
18:b:480:HIS:HD2	18:b:483:ARG:NH1	2.17	0.41
18:b:488:ILE:HD12	18:b:490:ARG:HG3	2.01	0.41
18:b:513:THR:HB	18:b:514:PRO:CD	2.50	0.41
18:b:687:ILE:HA	18:b:729:HIS:O	2.19	0.41
18:b:806:LEU:N	18:b:807:PRO:HD3	2.35	0.41
19:c:213:PRO:C	19:c:214:PRO:O	2.63	0.41
19:c:252:LEU:CD2	27:k:44:MET:HE1	2.49	0.41
20:d:65:PHE:CE1	23:g:89:ASP:HB3	2.54	0.41
21:e:15:TRP:CE3	21:e:19:HIS:CE1	3.07	0.41
23:g:45:TYR:O	23:g:79:LEU:HA	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:g:54:THR:HB	23:g:76:ARG:CD	2.48	0.41
23:g:95:VAL:HG11	23:g:130:ASN:HA	2.02	0.41
23:g:126:ALA:O	23:g:128:PRO:N	2.53	0.41
2:H:145:MET:O	2:H:149:GLU:HG2	2.21	0.41
3:Q:391:ALA:HA	6:K:111:LEU:HD13	2.02	0.41
3:Q:418:ASP:HA	3:Q:419:ALA:HA	1.65	0.41
3:Q:510:ARG:HG3	3:Q:518:ASN:C	2.45	0.41
6:K:31:ILE:HA	6:K:34:ILE:HD12	2.00	0.41
17:a:118:ASP:HB2	17:a:120:SER:CA	2.50	0.41
17:a:570:VAL:O	17:a:570:VAL:CG1	2.68	0.41
18:b:526:SER:OG	18:b:529:SER:HB3	2.20	0.41
18:b:819:TYR:O	18:b:820:SER:CB	2.55	0.41
18:b:887:LEU:HB2	28:l:51:LYS:NZ	2.35	0.41
18:b:901:ILE:CD1	18:b:928:THR:O	2.68	0.41
18:b:1124:ARG:CD	18:b:1128:ILE:HD11	2.51	0.41
19:c:42:THR:CG2	19:c:171:TRP:HB3	2.49	0.41
20:d:86:HIS:HD2	20:d:89:GLU:OE1	2.02	0.41
21:e:78:LYS:HE3	21:e:78:LYS:HB3	1.87	0.41
21:e:98:ASN:HD22	21:e:98:ASN:N	2.18	0.41
21:e:128:GLU:HA	21:e:129:THR:HB	2.01	0.41
23:g:54:THR:CG2	23:g:76:ARG:HD2	2.50	0.41
23:g:66:GLN:O	23:g:68:PHE:CD1	2.71	0.41
27:k:36:LYS:HA	27:k:68:HIS:CD2	2.53	0.41
27:k:44:MET:C	27:k:46:ALA:N	2.78	0.41
1:F:70:LEU:O	1:F:77:GLN:NE2	2.53	0.41
1:F:136:PHE:HE2	2:H:57:ILE:HD11	1.85	0.41
2:H:99:ALA:N	2:H:104:GLU:OE2	2.42	0.41
3:Q:135:GLU:O	20:d:128:SER:O	2.37	0.41
5:T:81:GLU:O	5:T:85:VAL:HG23	2.20	0.41
5:T:180:GLN:HG2	5:T:183:LYS:NZ	2.35	0.41
7:V:103:VAL:O	7:V:106:THR:OG1	2.36	0.41
8:N:353:TYR:H	8:N:354:ASP:CB	2.34	0.41
8:N:492:VAL:O	8:N:502:THR:OG1	2.33	0.41
17:a:58:PRO:HA	17:a:59:ARG:HA	1.85	0.41
17:a:219:HIS:O	17:a:220:ILE:C	2.63	0.41
17:a:230:LEU:CD1	17:a:237:PRO:HD3	2.25	0.41
17:a:448:VAL:HG22	17:a:449:ILE:N	2.35	0.41
17:a:506:GLU:OE2	18:b:1134:SER:HB2	2.20	0.41
17:a:548:THR:O	17:a:552:VAL:HG23	2.20	0.41
17:a:551:ALA:HB1	17:a:554:ASN:CB	2.50	0.41
17:a:558:TRP:HD1	17:a:657:ARG:HD3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:567:PRO:HG2	17:a:586:LEU:HD11	2.02	0.41
17:a:585:SER:HB3	17:a:618:ILE:H	1.85	0.41
17:a:856:VAL:CG2	17:a:1065:GLU:HG2	2.50	0.41
17:a:1325:VAL:CG1	17:a:1326:GLU:N	2.84	0.41
17:a:1371:TYR:O	17:a:1371:TYR:CG	2.74	0.41
18:b:106:LEU:HA	18:b:954:LYS:HZ2	1.85	0.41
18:b:229:LEU:H	18:b:229:LEU:CD2	2.33	0.41
18:b:229:LEU:CB	18:b:230:GLU:HB3	2.45	0.41
18:b:262:ILE:HG21	18:b:323:ARG:C	2.44	0.41
18:b:495:ALA:O	18:b:496:LYS:O	2.37	0.41
18:b:532:SER:O	18:b:616:ALA:HB1	2.19	0.41
18:b:640:ILE:HG22	18:b:641:ARG:N	2.35	0.41
18:b:694:LEU:HD11	18:b:730:CYS:HB2	2.02	0.41
19:c:34:ARG:HH12	27:k:39:HIS:HB2	1.83	0.41
20:d:60:ALA:O	20:d:64:VAL:HG23	2.20	0.41
21:e:163:TYR:O	21:e:164:LYS:C	2.63	0.41
22:f:79:GLU:O	22:f:82:ARG:N	2.47	0.41
24:h:7:LEU:HD23	24:h:7:LEU:HA	1.73	0.41
26:j:35:LEU:O	26:j:38:LEU:N	2.52	0.41
27:k:54:ARG:HE	27:k:54:ARG:HB3	1.61	0.41
1:F:165:LEU:HD12	2:H:39:SER:HB3	2.02	0.41
2:H:96:ARG:HH21	2:H:98:LYS:HD3	1.85	0.41
3:Q:218:LEU:CD1	7:V:82:LEU:HB3	2.50	0.41
3:Q:399:LYS:O	3:Q:403:LYS:HG3	2.20	0.41
3:Q:404:SER:HB3	6:K:95:TYR:CZ	2.54	0.41
3:Q:501:LEU:HG	3:Q:502:HIS:CD2	2.54	0.41
4:R:41:PRO:CD	4:R:55:TRP:HE3	2.33	0.41
8:N:466:GLN:O	8:N:469:ASN:HB2	2.20	0.41
8:N:553:ILE:HA	8:N:556:PHE:HD2	1.85	0.41
17:a:64:ASP:CG	17:a:67:PHE:CE1	2.94	0.41
17:a:116:LYS:HG3	17:a:143:VAL:CG1	2.50	0.41
17:a:249:PRO:CB	17:a:250:PRO:HD2	2.49	0.41
17:a:432:LEU:CD2	17:a:436:TRP:HZ2	2.30	0.41
17:a:801:GLU:HB3	18:b:718:PRO:HB3	2.02	0.41
17:a:858:TYR:HA	17:a:1063:PRO:CG	2.51	0.41
17:a:905:ILE:HG12	17:a:933:GLU:HB3	2.02	0.41
17:a:1106:GLU:OE1	17:a:1114:ILE:HB	2.20	0.41
17:a:1155:ILE:HG12	17:a:1196:LEU:HD22	2.02	0.41
17:a:1276:SER:C	17:a:1277:ILE:HG13	2.42	0.41
18:b:110:THR:HG23	18:b:190:ILE:HA	2.03	0.41
18:b:491:ASP:N	18:b:491:ASP:OD1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:b:517:GLN:HB3	18:b:518:ALA:H	1.64	0.41
18:b:648:LEU:HD23	18:b:648:LEU:HA	1.83	0.41
18:b:747:PHE:CD2	18:b:1016:VAL:HG11	2.55	0.41
18:b:901:ILE:HD11	18:b:928:THR:H	1.84	0.41
19:c:238:SER:OG	19:c:239:ILE:N	2.52	0.41
20:d:123:ILE:O	20:d:127:LEU:HG	2.21	0.41
23:g:62:VAL:HA	23:g:69:ALA:HA	2.02	0.41
23:g:107:LEU:HD12	23:g:108:ASN:H	1.85	0.41
24:h:116:LEU:N	24:h:116:LEU:CD1	2.83	0.41
27:k:55:VAL:HG12	27:k:57:PHE:H	1.84	0.41
2:H:31:LEU:HD22	3:Q:109:ILE:HD13	2.01	0.41
2:H:42:PRO:O	2:H:46:ILE:HG13	2.20	0.41
2:H:130:ALA:O	2:H:133:LYS:HB3	2.20	0.41
3:Q:427:PRO:O	3:Q:430:PHE:HB3	2.20	0.41
8:N:183:THR:HG22	8:N:188:ARG:N	2.36	0.41
8:N:309:TYR:HE1	8:N:383:LEU:HA	1.84	0.41
8:N:402:LEU:CG	8:N:403:HIS:H	2.16	0.41
8:N:474:PHE:O	8:N:477:GLN:HB2	2.21	0.41
15:S:345:UNK:O	15:S:349:UNK:N	2.53	0.41
17:a:510:ILE:CG1	17:a:511:THR:N	2.83	0.41
17:a:781:ILE:O	17:a:781:ILE:CG2	2.68	0.41
17:a:887:GLN:HG2	17:a:1024:LEU:HD11	2.00	0.41
17:a:1104:LEU:CD1	17:a:1104:LEU:O	2.65	0.41
17:a:1157:TYR:HD2	25:i:18:GLU:OE2	2.04	0.41
17:a:1473:MET:HE3	17:a:1473:MET:HB3	1.87	0.41
18:b:111:TYR:HB2	18:b:189:ILE:CG1	2.50	0.41
18:b:161:SER:H	18:b:164:CYS:HB3	1.86	0.41
18:b:562:ASN:HA	18:b:563:ALA:CB	2.49	0.41
18:b:669:VAL:HG22	18:b:674:ILE:CD1	2.29	0.41
18:b:926:VAL:O	18:b:926:VAL:HG12	2.20	0.41
18:b:959:SER:O	18:b:960:THR:C	2.60	0.41
18:b:1028:GLY:HA2	26:j:50:LEU:HD11	2.02	0.41
18:b:1138:GLU:HG2	18:b:1143:CYS:SG	2.60	0.41
19:c:67:GLY:C	19:c:170:LYS:HZ2	2.28	0.41
19:c:103:LEU:HB2	19:c:158:CYS:HB2	2.01	0.41
19:c:207:ASN:ND2	19:c:230:TYR:CD2	2.85	0.41
20:d:19:PHE:HD2	23:g:81:ARG:CD	2.33	0.41
20:d:48:GLU:HB3	20:d:49:ILE:H	1.65	0.41
20:d:84:ARG:HH21	20:d:87:LYS:HE2	1.86	0.41
21:e:30:SER:OG	21:e:33:GLU:HG3	2.21	0.41
22:f:113:LYS:HD3	22:f:113:LYS:HA	1.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:h:111:LEU:O	24:h:113:ARG:N	2.53	0.41
25:i:22:ASP:O	25:i:23:ARG:CB	2.52	0.41
26:j:35:LEU:HB2	26:j:40:LEU:HD12	2.03	0.41
27:k:38:ASP:HB3	27:k:70:PHE:CD2	2.48	0.41
27:k:57:PHE:O	27:k:74:VAL:HG13	2.20	0.41
1:F:38:SER:HA	1:F:43:TYR:CG	2.55	0.41
1:F:120:ASN:ND2	1:F:122:TYR:HB3	2.36	0.41
3:Q:295:LEU:HA	3:Q:298:ILE:HD12	2.01	0.41
3:Q:532:HIS:O	3:Q:536:SER:OG	2.18	0.41
4:R:188:ASN:O	4:R:192:VAL:HG23	2.20	0.41
5:T:35:LYS:NZ	5:T:57:LYS:HG3	2.36	0.41
5:T:50:PRO:HG3	5:T:69:ASP:HB3	2.02	0.41
6:K:29:ALA:C	6:K:32:PRO:HD2	2.46	0.41
8:N:206:GLN:HG2	9:D:96:UNK:CB	2.44	0.41
17:a:6:PHE:C	17:a:8:PRO:N	2.78	0.41
17:a:36:LYS:H	17:a:36:LYS:HD2	1.85	0.41
17:a:40:PRO:CB	17:a:276:ILE:CB	2.92	0.41
17:a:43:MET:H	17:a:55:LEU:HG	1.84	0.41
17:a:476:LEU:C	17:a:476:LEU:CD1	2.93	0.41
17:a:656:GLN:HG2	17:a:656:GLN:O	2.21	0.41
17:a:672:ILE:O	17:a:674:ASP:N	2.54	0.41
17:a:722:ALA:C	17:a:724:VAL:H	2.29	0.41
17:a:1197:ARG:HD3	17:a:1240:ILE:HG21	2.03	0.41
17:a:1219:ILE:HG23	17:a:1273:MET:CE	2.50	0.41
17:a:1251:ARG:O	17:a:1252:LYS:HB2	2.20	0.41
17:a:1288:VAL:CG1	17:a:1289:TYR:H	2.33	0.41
17:a:1328:VAL:H	17:a:1329:ASP:HB2	1.86	0.41
17:a:1437:GLY:HA2	18:b:1141:PHE:CD1	2.56	0.41
18:b:77:ILE:HD11	18:b:418:MET:SD	2.61	0.41
18:b:252:GLY:O	18:b:253:GLN:HB2	2.20	0.41
18:b:856:GLY:CA	18:b:857:MET:HB2	2.49	0.41
18:b:1199:ASN:N	18:b:1199:ASN:ND2	2.67	0.41
19:c:19:PHE:CE1	19:c:245:MET:HE3	2.55	0.41
19:c:172:SER:HA	19:c:173:PRO:HD3	1.66	0.41
20:d:13:LEU:C	20:d:14:LYS:HG2	2.43	0.41
20:d:22:GLU:OE1	23:g:6:LYS:HD2	2.20	0.41
21:e:155:GLU:O	21:e:158:GLU:HB2	2.20	0.41
22:f:141:LEU:C	22:f:142:ILE:CG1	2.93	0.41
27:k:9:LEU:HD23	27:k:9:LEU:C	2.46	0.41
2:H:109:ASN:HA	2:H:112:GLN:HG2	2.02	0.41
4:R:131:TYR:HB2	4:R:138:VAL:CG1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3:41:TYR:CA	12:3:46:ALA:CB	2.99	0.41
17:a:64:ASP:CG	17:a:67:PHE:CZ	2.98	0.41
17:a:92:VAL:CG2	17:a:242:ILE:HB	2.51	0.41
17:a:192:SER:HB3	17:a:202:LEU:O	2.20	0.41
17:a:362:ASP:HA	17:a:363:PRO:HD3	1.85	0.41
17:a:390:ASN:O	17:a:392:TYR:N	2.53	0.41
17:a:466:ILE:HB	17:a:467:ARG:H	1.55	0.41
17:a:516:GLN:HE22	18:b:1130:HIS:HD2	1.60	0.41
17:a:574:PRO:HB2	19:c:222:PHE:CE1	2.56	0.41
17:a:581:LYS:O	17:a:582:GLN:O	2.38	0.41
17:a:811:LEU:HD23	18:b:1041:VAL:HG21	2.03	0.41
17:a:916:TYR:O	17:a:917:MET:C	2.64	0.41
17:a:944:LEU:O	17:a:944:LEU:HD22	2.20	0.41
17:a:959:LEU:HD21	17:a:1020:LEU:HD22	2.03	0.41
17:a:979:LYS:O	17:a:981:PRO:HD3	2.21	0.41
17:a:1223:PHE:CE2	17:a:1273:MET:CE	3.03	0.41
17:a:1452:ASP:O	17:a:1453:GLN:C	2.64	0.41
18:b:108:ASN:HA	18:b:192:GLY:HA3	2.03	0.41
18:b:165:ILE:C	18:b:166:LEU:HD23	2.45	0.41
18:b:233:SER:OG	18:b:234:ARG:N	2.52	0.41
18:b:507:MET:O	18:b:509:CYS:SG	2.55	0.41
18:b:661:GLN:O	18:b:662:ARG:C	2.64	0.41
18:b:721:ASN:HA	18:b:722:PRO:HD3	1.85	0.41
18:b:778:MET:CA	18:b:956:ARG:HH21	2.32	0.41
18:b:972:ARG:NE	18:b:1080:TYR:HE2	2.11	0.41
22:f:115:LEU:HD22	22:f:115:LEU:HA	1.89	0.41
23:g:138:ILE:HG13	23:g:171:VAL:HG22	1.98	0.41
25:i:24:VAL:HG12	25:i:25:LEU:O	2.20	0.41
26:j:44:CYS:H	26:j:46:ARG:H	1.68	0.41
27:k:109:GLU:O	27:k:113:ILE:HG13	2.20	0.41
1:F:81:ILE:HG13	1:F:82:HIS:N	2.36	0.41
1:F:184:ILE:HG12	3:Q:241:LEU:HB2	2.03	0.41
2:H:24:VAL:HG13	3:Q:116:GLN:HG2	2.03	0.41
3:Q:138:ILE:HG21	20:d:129:THR:CA	2.46	0.41
3:Q:202:HIS:O	3:Q:206:THR:HG23	2.21	0.41
3:Q:207:GLU:O	3:Q:210:LYS:HB2	2.21	0.41
3:Q:304:ILE:O	3:Q:308:MET:HG3	2.21	0.41
8:N:195:ASN:HB2	8:N:224:PHE:CB	2.49	0.41
8:N:392:GLN:HA	8:N:395:LEU:HD12	2.01	0.41
8:N:486:CYS:HB2	8:N:551:LEU:HB3	2.02	0.41
8:N:489:LEU:HD13	8:N:520:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:23:ILE:HD12	17:a:235:ALA:HB1	2.02	0.41
17:a:116:LYS:HZ2	17:a:140:VAL:HG13	1.86	0.41
17:a:205:LYS:O	17:a:206:ARG:CG	2.66	0.41
17:a:275:ILE:HD11	17:a:305:HIS:C	2.45	0.41
17:a:350:ARG:O	17:a:351:VAL:CG2	2.68	0.41
17:a:436:TRP:CD1	17:a:436:TRP:C	2.98	0.41
17:a:775:ILE:HD12	17:a:775:ILE:N	2.34	0.41
17:a:1092:VAL:O	17:a:1093:SER:CB	2.68	0.41
17:a:1140:GLN:NE2	17:a:1280:ARG:CZ	2.84	0.41
17:a:1166:ILE:CD1	17:a:1171:ASP:OD2	2.63	0.41
17:a:1405:ARG:C	17:a:1407:SER:N	2.78	0.41
17:a:1450:TYR:HA	23:g:61:ARG:HA	2.02	0.41
18:b:54:SER:CA	18:b:79:PHE:HD2	2.28	0.41
18:b:55:THR:O	18:b:56:LEU:HB2	2.21	0.41
18:b:562:ASN:CA	18:b:563:ALA:HB3	2.49	0.41
18:b:733:HIS:HD2	18:b:735:ALA:CB	2.34	0.41
18:b:774:TYR:CD1	18:b:774:TYR:C	2.98	0.41
18:b:968:LYS:HD2	18:b:1086:HIS:HE1	1.85	0.41
18:b:1188:ALA:O	18:b:1189:LYS:C	2.62	0.41
19:c:119:ALA:HA	19:c:145:ILE:HD11	2.01	0.41
21:e:57:LEU:HD12	21:e:57:LEU:HA	1.87	0.41
25:i:70:ARG:HG3	25:i:84:VAL:HG22	2.03	0.41
26:j:43:TYR:N	26:j:44:CYS:CB	2.84	0.41
3:Q:174:CYS:O	3:Q:178:LYS:HG3	2.21	0.41
3:Q:432:TYR:O	3:Q:435:ASN:HB3	2.20	0.41
4:R:33:LEU:HB3	4:R:63:GLU:CA	2.39	0.41
6:K:40:LYS:HA	6:K:43:GLU:HB3	2.03	0.41
7:V:5:SER:O	7:V:9:GLN:HG3	2.21	0.41
7:V:59:HIS:O	7:V:63:MET:HG3	2.20	0.41
8:N:309:TYR:HB3	8:N:310:TRP:H	1.60	0.41
17:a:59:ARG:H	17:a:60:LEU:CD2	2.34	0.41
17:a:91:PRO:CG	17:a:211:LEU:HB2	2.51	0.41
17:a:101:ILE:HD11	17:a:217:PHE:HZ	1.74	0.41
17:a:115:LEU:CD1	17:a:224:ASP:HB3	2.51	0.41
17:a:115:LEU:N	17:a:115:LEU:HD12	2.36	0.41
17:a:214:HIS:HE1	17:a:238:ASP:O	2.04	0.41
17:a:266:ASP:CA	17:a:267:ASP:CG	2.92	0.41
17:a:358:VAL:O	17:a:473:THR:HB	2.21	0.41
17:a:409:LYS:O	17:a:410:TYR:O	2.39	0.41
17:a:672:ILE:C	17:a:674:ASP:N	2.79	0.41
17:a:844:GLN:HG2	18:b:1122:MET:HE2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:850:ALA:CB	17:a:1390:ILE:HD12	2.51	0.41
17:a:860:GLY:HA2	17:a:874:TYR:CZ	2.55	0.41
17:a:880:ASP:CG	17:a:882:THR:HG22	2.46	0.41
17:a:881:ALA:HB1	17:a:1370:ASN:ND2	2.36	0.41
17:a:922:GLU:HB2	17:a:924:ASP:H	1.86	0.41
17:a:982:THR:C	17:a:984:LEU:H	2.29	0.41
17:a:1170:LYS:NZ	17:a:1238:LYS:CG	2.84	0.41
17:a:1197:ARG:C	17:a:1198:LEU:HG	2.46	0.41
17:a:1431:SER:HA	17:a:1434:ILE:CD1	2.51	0.41
18:b:32:ARG:O	18:b:36:PHE:HB2	2.20	0.41
18:b:147:PRO:HB2	18:b:148:SER:H	1.68	0.41
18:b:158:MET:HB2	18:b:188:PHE:CZ	2.56	0.41
18:b:240:GLN:O	18:b:241:ILE:HG22	2.21	0.41
18:b:243:LEU:C	18:b:244:MET:SD	3.04	0.41
18:b:243:LEU:CD1	18:b:371:MET:HE3	2.43	0.41
18:b:296:MET:CE	18:b:372:LEU:HB2	2.42	0.41
18:b:329:VAL:C	18:b:330:THR:HG23	2.46	0.41
18:b:484:THR:O	18:b:485:ASN:O	2.39	0.41
18:b:556:ASN:HA	18:b:560:SER:O	2.21	0.41
18:b:665:TRP:HA	18:b:668:LEU:HB2	2.03	0.41
18:b:840:PHE:HB3	18:b:1083:ARG:HG3	2.01	0.41
18:b:975:GLN:HA	18:b:975:GLN:NE2	2.36	0.41
18:b:1061:MET:O	18:b:1070:LEU:HG	2.21	0.41
18:b:1113:ARG:CA	18:b:1114:ASP:HB2	2.38	0.41
18:b:1148:ARG:O	18:b:1148:ARG:HG3	2.21	0.41
19:c:7:ILE:O	19:c:7:ILE:HG13	2.21	0.41
19:c:33:ARG:HE	19:c:179:PHE:CB	2.34	0.41
19:c:69:ILE:HD12	19:c:70:PRO:CD	2.49	0.41
21:e:69:LYS:HA	21:e:70:GLY:HA2	1.75	0.41
23:g:15:HIS:CE1	23:g:16:PRO:HD2	2.55	0.41
23:g:66:GLN:CG	23:g:68:PHE:CE2	3.04	0.41
23:g:100:PHE:CZ	23:g:131:TYR:CB	3.02	0.41
23:g:147:LYS:HZ2	23:g:166:GLU:CB	2.34	0.41
24:h:27:ILE:H	24:h:27:ILE:HG12	1.75	0.41
25:i:71:SER:O	25:i:72:ASP:OD1	2.38	0.41
26:j:7:CYS:SG	26:j:45:CYS:CB	2.98	0.41
26:j:39:GLY:C	26:j:40:LEU:HD23	2.46	0.41
1:F:162:ASN:O	1:F:164:ASN:HB2	2.21	0.41
2:H:137:TRP:HH2	6:K:42:ILE:HA	1.86	0.41
3:Q:442:GLN:HA	3:Q:452:PHE:CZ	2.56	0.41
8:N:398:ILE:O	8:N:402:LEU:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:86:ILE:O	17:a:88:LEU:HD23	2.20	0.41
17:a:118:ASP:HB2	17:a:120:SER:HA	2.02	0.41
17:a:254:PRO:CD	18:b:1103:LEU:HD21	2.51	0.41
17:a:275:ILE:HG23	17:a:302:LEU:HD22	2.03	0.41
17:a:376:ILE:O	17:a:379:THR:N	2.49	0.41
17:a:382:TYR:H	17:a:499:GLN:CD	2.29	0.41
17:a:395:GLN:HE22	17:a:431:PRO:HA	1.86	0.41
17:a:512:MET:O	17:a:515:LYS:N	2.54	0.41
17:a:789:THR:CG2	17:a:793:PHE:HD2	2.33	0.41
17:a:797:ASP:C	17:a:799:SER:H	2.29	0.41
17:a:969:ASN:H	17:a:969:ASN:ND2	2.17	0.41
17:a:1109:ASN:C	17:a:1111:ALA:H	2.29	0.41
17:a:1181:ASP:N	17:a:1181:ASP:OD1	2.54	0.41
17:a:1317:ILE:H	17:a:1317:ILE:HG13	1.75	0.41
17:a:1387:LEU:H	17:a:1387:LEU:HG	1.68	0.41
17:a:1427:CYS:C	17:a:1429:GLY:H	2.27	0.41
18:b:229:LEU:CA	18:b:230:GLU:HB2	2.34	0.41
18:b:407:PHE:O	18:b:410:MET:N	2.54	0.41
18:b:591:ARG:HB3	18:b:672:GLY:CA	2.50	0.41
18:b:785:LEU:HD22	18:b:785:LEU:HA	1.83	0.41
18:b:814:VAL:HG22	18:b:999:ILE:CG1	2.51	0.41
18:b:1109:GLU:O	18:b:1110:GLY:C	2.63	0.41
19:c:33:ARG:CZ	19:c:179:PHE:CD2	3.04	0.41
21:e:64:SER:C	21:e:66:ASP:N	2.79	0.41
21:e:142:HIS:HD2	21:e:144:LEU:HB2	1.85	0.41
23:g:90:ALA:CB	23:g:104:ILE:HG13	2.50	0.41
24:h:23:ARG:O	24:h:24:VAL:HB	2.21	0.41
24:h:87:LYS:O	24:h:88:ASP:HB2	2.21	0.41
26:j:59:LEU:HD23	26:j:59:LEU:C	2.46	0.41
27:k:94:ILE:HG13	27:k:95:THR:N	2.36	0.41
2:H:9:THR:O	2:H:13:LEU:HB2	2.21	0.40
2:H:192:LEU:O	2:H:196:LYS:N	2.53	0.40
3:Q:438:SER:O	3:Q:442:GLN:HG3	2.21	0.40
4:R:37:VAL:HB	4:R:39:TYR:CE1	2.56	0.40
5:T:158:VAL:HG11	5:T:184:GLN:HG2	2.02	0.40
6:K:16:SER:N	6:K:19:GLN:HB2	2.31	0.40
6:K:109:SER:HB3	7:V:98:PRO:CB	2.50	0.40
7:V:64:VAL:O	7:V:68:GLU:HG3	2.21	0.40
17:a:59:ARG:HB2	17:a:60:LEU:CA	2.49	0.40
17:a:115:LEU:H	17:a:115:LEU:HD12	1.85	0.40
17:a:162:ASP:HA	17:a:165:ASN:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:231:ASN:O	17:a:233:GLN:N	2.54	0.40
17:a:876:GLU:OE1	21:e:199:THR:OG1	2.40	0.40
17:a:879:LEU:HD11	17:a:960:PRO:HG3	1.95	0.40
17:a:892:LEU:C	17:a:894:LEU:H	2.29	0.40
17:a:952:LYS:HA	17:a:952:LYS:HD2	1.93	0.40
17:a:1038:TYR:O	17:a:1038:TYR:HD1	2.04	0.40
17:a:1161:PRO:CG	17:a:1190:LYS:HB3	2.51	0.40
18:b:235:LEU:HD22	18:b:235:LEU:C	2.35	0.40
18:b:399:LEU:HD23	18:b:399:LEU:HA	1.87	0.40
18:b:488:ILE:CB	18:b:490:ARG:N	2.83	0.40
18:b:540:ILE:CG1	18:b:541:ILE:N	2.84	0.40
18:b:561:PRO:HA	18:b:562:ASN:HA	1.89	0.40
18:b:626:VAL:HG23	18:b:728:THR:O	2.21	0.40
18:b:805:GLU:O	18:b:806:LEU:HD23	2.20	0.40
18:b:811:ASN:HA	18:b:1080:TYR:HA	2.03	0.40
18:b:1049:ARG:C	18:b:1051:HIS:N	2.78	0.40
19:c:102:GLU:HA	19:c:159:ILE:HG22	2.03	0.40
20:d:65:PHE:CE1	23:g:89:ASP:CB	3.04	0.40
23:g:84:ARG:CD	23:g:150:GLY:HA2	2.52	0.40
23:g:92:VAL:HA	23:g:102:ALA:HA	2.03	0.40
23:g:147:LYS:NZ	23:g:166:GLU:CB	2.84	0.40
24:h:113:ARG:HH11	24:h:113:ARG:HG3	1.86	0.40
27:k:96:HIS:O	27:k:96:HIS:CD2	2.74	0.40
27:k:108:TRP:CZ3	27:k:112:MET:HG3	2.56	0.40
28:l:40:ARG:HB3	28:l:47:ARG:HG2	2.02	0.40
1:F:11:LEU:HD22	1:F:42:PHE:CE1	2.56	0.40
2:H:83:PRO:HG3	3:Q:149:VAL:HG22	2.04	0.40
4:R:80:MET:HB3	4:R:102:ALA:HB3	2.02	0.40
5:T:35:LYS:HZ1	5:T:57:LYS:HG3	1.86	0.40
5:T:67:CYS:SG	5:T:76:ALA:N	2.95	0.40
7:V:109:LYS:HA	7:V:112:ASN:HB2	2.03	0.40
8:N:305:LEU:HB2	8:N:330:ILE:HD12	2.03	0.40
12:3:35:PHE:C	12:3:37:ALA:H	2.29	0.40
14:I:96:SER:HA	14:I:97:GLU:HA	1.73	0.40
17:a:120:SER:H	17:a:122:PRO:CD	2.28	0.40
17:a:135:ASN:O	17:a:136:ARG:C	2.64	0.40
17:a:349:LYS:O	17:a:350:ARG:C	2.64	0.40
17:a:520:PRO:O	17:a:521:GLN:C	2.62	0.40
17:a:525:PRO:HD3	17:a:637:HIS:CE1	2.46	0.40
17:a:628:VAL:O	17:a:628:VAL:HG23	2.20	0.40
17:a:653:ASN:O	17:a:657:ARG:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:708:LEU:HD12	17:a:708:LEU:HA	1.83	0.40
17:a:720:PHE:O	17:a:721:GLU:C	2.64	0.40
17:a:793:PHE:CZ	17:a:802:SER:HB2	2.56	0.40
17:a:816:PRO:HD3	18:b:1036:PHE:CD2	2.54	0.40
17:a:947:LYS:N	17:a:947:LYS:CD	2.81	0.40
17:a:968:GLN:HA	17:a:969:ASN:HA	1.80	0.40
18:b:86:ARG:HA	18:b:87:PRO:HD3	1.82	0.40
18:b:379:ARG:HB3	18:b:380:GLU:H	1.74	0.40
18:b:380:GLU:HA	18:b:381:PRO:HD3	1.97	0.40
18:b:507:MET:HE3	18:b:507:MET:HB3	1.91	0.40
18:b:728:THR:CG2	18:b:729:HIS:N	2.84	0.40
18:b:814:VAL:CG1	18:b:815:ALA:N	2.83	0.40
18:b:1141:PHE:HD1	18:b:1185:PRO:HG3	1.87	0.40
19:c:48:VAL:HG23	28:l:60:PHE:HB2	2.03	0.40
19:c:147:LYS:HB2	26:j:60:LEU:HD11	2.03	0.40
19:c:215:ARG:O	19:c:215:ARG:HG3	2.20	0.40
23:g:120:MET:HA	23:g:132:SER:O	2.22	0.40
26:j:33:GLU:O	26:j:33:GLU:CD	2.65	0.40
26:j:35:LEU:HD12	26:j:36:ASP:OD1	2.21	0.40
2:H:14:GLU:HA	2:H:17:ARG:HG2	2.04	0.40
3:Q:41:ILE:HA	3:Q:42:ILE:HA	1.57	0.40
3:Q:273:LYS:HZ3	3:Q:339:ASP:C	2.30	0.40
3:Q:323:ASN:HD21	3:Q:426:ARG:NE	2.19	0.40
3:Q:324:GLN:NE2	8:N:446:PRO:HD2	2.36	0.40
5:T:15:ALA:HB3	5:T:124:ILE:HD13	2.03	0.40
5:T:37:TRP:HB3	5:T:90:TRP:HE3	1.87	0.40
8:N:174:ILE:HA	8:N:175:ILE:HA	1.62	0.40
8:N:213:ILE:O	8:N:215:PHE:N	2.54	0.40
8:N:264:ASN:O	8:N:268:LYS:HG3	2.21	0.40
8:N:277:LEU:O	8:N:281:GLN:HG3	2.21	0.40
8:N:431:VAL:HG12	8:N:432:THR:N	2.36	0.40
17:a:30:ARG:HG3	17:a:244:VAL:CG1	2.47	0.40
17:a:46:SER:OG	17:a:48:GLN:OE1	2.39	0.40
17:a:345:ASN:O	17:a:346:LEU:HD23	2.21	0.40
17:a:421:LEU:O	17:a:422:ARG:O	2.39	0.40
17:a:771:VAL:HG23	17:a:808:ASN:O	2.21	0.40
17:a:870:ILE:C	17:a:870:ILE:CD1	2.90	0.40
17:a:921:ILE:H	17:a:921:ILE:HG12	1.72	0.40
17:a:945:LEU:C	17:a:947:LYS:O	2.64	0.40
17:a:989:ILE:HD11	17:a:990:ILE:HG23	2.03	0.40
17:a:1008:ARG:O	17:a:1009:ILE:HB	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1136:ASN:O	17:a:1140:GLN:HG3	2.22	0.40
17:a:1165:VAL:O	17:a:1166:ILE:HG23	2.21	0.40
17:a:1347:ILE:O	17:a:1350:THR:CG2	2.69	0.40
17:a:1371:TYR:CD2	21:e:198:GLU:OE1	2.75	0.40
17:a:1412:VAL:HG13	17:a:1413:GLU:HG2	1.99	0.40
17:a:1433:ASN:HD22	17:a:1441:PRO:CD	2.32	0.40
17:a:1439:LEU:HD21	18:b:1133:SER:HB2	2.03	0.40
17:a:1496:PHE:CD2	20:d:33:LEU:CD1	2.92	0.40
18:b:102:GLN:C	18:b:104:ALA:N	2.78	0.40
18:b:243:LEU:O	18:b:244:MET:CG	2.54	0.40
18:b:587:ARG:HH21	18:b:601:ILE:HD13	1.82	0.40
18:b:747:PHE:N	18:b:748:PRO:HD3	2.35	0.40
18:b:1114:ASP:O	18:b:1114:ASP:CG	2.64	0.40
18:b:1124:ARG:HD2	18:b:1124:ARG:C	2.46	0.40
19:c:64:HIS:O	19:c:64:HIS:CD2	2.75	0.40
19:c:124:VAL:HB	19:c:125:SER:H	1.57	0.40
19:c:174:THR:HG23	19:c:174:THR:O	2.21	0.40
19:c:241:PRO:C	19:c:242:ASN:CG	2.89	0.40
20:d:11:ALA:HB2	20:d:14:LYS:HG3	2.04	0.40
20:d:51:MET:HB3	20:d:55:MET:CB	2.51	0.40
20:d:61:TYR:CD1	23:g:105:GLY:CA	3.05	0.40
20:d:61:TYR:CE2	23:g:105:GLY:N	2.89	0.40
21:e:107:ALA:HA	21:e:108:ASN:HA	1.41	0.40
21:e:156:LYS:HG3	21:e:190:VAL:CG2	2.50	0.40
21:e:198:GLU:H	21:e:199:THR:CB	2.34	0.40
23:g:111:VAL:HB	23:g:146:LEU:HD21	2.02	0.40
23:g:167:ASP:O	23:g:168:TYR:HB2	2.21	0.40
26:j:7:CYS:SG	26:j:10:CYS:HB2	2.62	0.40
26:j:62:TYR:O	26:j:63:ASN:C	2.64	0.40
27:k:19:THR:OG1	27:k:33:THR:HB	2.21	0.40
28:l:25:ALA:HB2	28:l:48:VAL:HG21	2.02	0.40
3:Q:117:THR:O	3:Q:120:SER:OG	2.20	0.40
3:Q:216:TRP:CE2	3:Q:295:LEU:HD22	2.57	0.40
3:Q:525:ASN:HA	3:Q:528:GLN:HG2	2.03	0.40
3:Q:528:GLN:NE2	8:N:550:THR:HG21	2.35	0.40
4:R:144:LEU:HB3	4:R:156:PHE:HB2	2.02	0.40
4:R:144:LEU:HG	4:R:158:PRO:HD3	2.02	0.40
4:R:201:ASP:CG	7:V:6:PHE:H	2.30	0.40
8:N:205:SER:OG	8:N:206:GLN:N	2.54	0.40
8:N:207:ASP:HB2	8:N:211:THR:OG1	2.22	0.40
8:N:218:ILE:CG2	8:N:219:VAL:N	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:87:GLU:C	17:a:88:LEU:HD23	2.46	0.40
17:a:306:VAL:O	17:a:306:VAL:CG1	2.69	0.40
17:a:317:GLN:H	17:a:318:PRO:CD	2.32	0.40
17:a:480:VAL:C	17:a:483:PRO:HD2	2.47	0.40
17:a:728:LEU:CB	17:a:805:PHE:HE2	2.34	0.40
17:a:728:LEU:CD2	17:a:805:PHE:HE2	2.34	0.40
17:a:887:GLN:HE22	17:a:964:GLN:HB2	1.86	0.40
17:a:1010:THR:O	17:a:1010:THR:HG22	2.21	0.40
18:b:21:ILE:HB	18:b:528:MET:HE1	2.02	0.40
18:b:30:LEU:C	18:b:32:ARG:N	2.79	0.40
18:b:212:LYS:HZ1	18:b:381:PRO:CG	2.35	0.40
18:b:240:GLN:C	18:b:241:ILE:CG2	2.95	0.40
18:b:391:ARG:HB3	18:b:617:GLY:HA3	2.02	0.40
18:b:538:ALA:CB	18:b:539:PRO:CD	2.98	0.40
18:b:841:ARG:NE	19:c:64:HIS:CE1	2.90	0.40
19:c:178:ALA:HB3	19:c:232:ASP:HB3	2.02	0.40
19:c:187:LEU:O	19:c:188:GLN:C	2.64	0.40
21:e:139:ILE:CG1	21:e:140:THR:N	2.85	0.40
23:g:135:ASP:CG	23:g:136:GLN:H	2.30	0.40
24:h:93:VAL:HG11	24:h:113:ARG:HD3	2.03	0.40
2:H:72:GLN:HB3	3:Q:161:PRO:O	2.22	0.40
3:Q:238:SER:OG	3:Q:309:ASP:OD1	2.28	0.40
3:Q:428:LEU:HA	3:Q:431:TYR:CD2	2.56	0.40
5:T:99:GLU:O	5:T:113:ALA:C	2.65	0.40
8:N:281:GLN:O	8:N:284:GLN:HB2	2.22	0.40
8:N:306:ARG:HB3	8:N:308:TYR:HD1	1.85	0.40
8:N:353:TYR:H	8:N:354:ASP:HB2	1.86	0.40
8:N:464:PRO:HA	8:N:467:ILE:HD12	2.03	0.40
12:3:67:ILE:C	12:3:69:PRO:N	2.80	0.40
13:2:123:PRO:HA	13:2:136:PHE:HA	2.02	0.40
17:a:120:SER:N	17:a:121:ASN:O	2.55	0.40
17:a:194:LYS:HE3	17:a:194:LYS:HB2	1.73	0.40
17:a:612:LEU:HB3	17:a:620:TYR:HB3	2.04	0.40
17:a:923:ASN:C	17:a:925:SER:N	2.79	0.40
17:a:944:LEU:C	17:a:947:LYS:O	2.65	0.40
17:a:959:LEU:HD12	17:a:959:LEU:HA	1.80	0.40
17:a:1039:ARG:HD2	17:a:1039:ARG:N	2.25	0.40
17:a:1047:TRP:CE3	17:a:1047:TRP:C	2.99	0.40
17:a:1125:PRO:CB	17:a:1129:ALA:N	2.81	0.40
17:a:1193:PRO:C	17:a:1194:TRP:CG	2.99	0.40
17:a:1320:THR:CG2	17:a:1321:GLU:N	2.72	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:a:1411:THR:HB	17:a:1412:VAL:H	1.52	0.40
18:b:27:GLU:CD	18:b:666:THR:HB	2.44	0.40
18:b:30:LEU:HD22	18:b:482:ARG:NH2	2.37	0.40
18:b:387:PHE:HD1	18:b:503:THR:HG22	1.83	0.40
18:b:415:TYR:HE1	18:b:419:GLN:NE2	2.19	0.40
18:b:747:PHE:HE1	18:b:1033:ALA:CB	2.34	0.40
18:b:850:ASP:OD2	18:b:903:LYS:HE3	2.21	0.40
19:c:33:ARG:HE	19:c:179:PHE:HB3	1.86	0.40
19:c:84:LEU:CD2	19:c:84:LEU:N	2.85	0.40
21:e:47:GLY:O	21:e:49:GLY:O	2.39	0.40
21:e:91:VAL:O	21:e:94:LEU:N	2.53	0.40
21:e:105:ILE:HD12	21:e:105:ILE:O	2.21	0.40
23:g:111:VAL:CG1	23:g:111:VAL:O	2.60	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	182/216 (84%)	154 (85%)	24 (13%)	4 (2%)	5	29
2	H	178/200 (89%)	161 (90%)	15 (8%)	2 (1%)	11	46
3	Q	492/545 (90%)	424 (86%)	55 (11%)	13 (3%)	4	25
4	R	205/207 (99%)	177 (86%)	23 (11%)	5 (2%)	4	27
5	T	172/193 (89%)	141 (82%)	21 (12%)	10 (6%)	1	14
6	K	96/116 (83%)	88 (92%)	7 (7%)	1 (1%)	12	49
7	V	116/136 (85%)	107 (92%)	8 (7%)	1 (1%)	14	51
8	N	489/931 (52%)	382 (78%)	72 (15%)	35 (7%)	1	11
10	G	186/376 (50%)	166 (89%)	18 (10%)	2 (1%)	11	46
11	U	118/138 (86%)	110 (93%)	5 (4%)	3 (2%)	4	26

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
12	3	101/139 (73%)	76 (75%)	9 (9%)	16 (16%)	0	2
13	2	66/273 (24%)	62 (94%)	3 (4%)	1 (2%)	8	40
14	I	73/121 (60%)	67 (92%)	3 (4%)	3 (4%)	2	18
17	a	1486/1752 (85%)	937 (63%)	276 (19%)	273 (18%)	0	2
18	b	1142/1210 (94%)	735 (64%)	244 (21%)	163 (14%)	0	3
19	c	261/297 (88%)	178 (68%)	56 (22%)	27 (10%)	0	6
20	d	123/135 (91%)	85 (69%)	20 (16%)	18 (15%)	0	3
21	e	205/210 (98%)	137 (67%)	43 (21%)	25 (12%)	0	4
22	f	81/142 (57%)	57 (70%)	16 (20%)	8 (10%)	0	7
23	g	168/172 (98%)	128 (76%)	24 (14%)	16 (10%)	0	8
24	h	122/125 (98%)	73 (60%)	27 (22%)	22 (18%)	0	2
25	i	109/113 (96%)	46 (42%)	27 (25%)	36 (33%)	0	0
26	j	62/71 (87%)	41 (66%)	15 (24%)	6 (10%)	0	7
27	k	117/123 (95%)	80 (68%)	24 (20%)	13 (11%)	0	5
28	l	43/63 (68%)	23 (54%)	12 (28%)	8 (19%)	0	2
All	All	6393/8004 (80%)	4635 (72%)	1047 (16%)	711 (11%)	1	5

All (711) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	Q	319	GLN
4	R	50	ARG
5	T	101	SER
8	N	175	ILE
8	N	194	PRO
8	N	209	LYS
8	N	214	SER
8	N	233	PRO
8	N	293	HIS
8	N	431	VAL
8	N	852	PRO
8	N	875	ILE
11	U	28	SER
12	3	11	PRO
12	3	60	PRO
12	3	80	ASN
13	2	134	ASP

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Mol	Chain	Res	Type
14	I	94	ALA
17	a	10	SER
17	a	12	PRO
17	a	37	ILE
17	a	42	THR
17	a	50	PRO
17	a	52	VAL
17	a	57	ASP
17	a	58	PRO
17	a	66	GLN
17	a	69	CYS
17	a	87	GLU
17	a	88	LEU
17	a	91	PRO
17	a	95	ILE
17	a	105	LEU
17	a	106	GLU
17	a	117	ILE
17	a	148	MET
17	a	152	THR
17	a	154	LEU
17	a	169	ASN
17	a	175	CYS
17	a	177	ALA
17	a	179	GLN
17	a	197	LYS
17	a	199	GLU
17	a	202	LEU
17	a	256	ILE
17	a	258	VAL
17	a	261	THR
17	a	262	SER
17	a	263	ARG
17	a	267	ASP
17	a	269	THR
17	a	270	HIS
17	a	319	GLN
17	a	338	LYS
17	a	341	ARG
17	a	342	LEU
17	a	350	ARG
17	a	351	VAL

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Mol	Chain	Res	Type
17	a	383	PRO
17	a	405	HIS
17	a	410	TYR
17	a	422	ARG
17	a	424	HIS
17	a	425	LYS
17	a	431	PRO
17	a	432	LEU
17	a	433	ARG
17	a	466	ILE
17	a	468	VAL
17	a	469	MET
17	a	507	ILE
17	a	540	PHE
17	a	551	ALA
17	a	559	VAL
17	a	573	LYS
17	a	582	GLN
17	a	599	ASP
17	a	630	ALA
17	a	632	GLN
17	a	709	LYS
17	a	771	VAL
17	a	776	VAL
17	a	794	PRO
17	a	804	GLY
17	a	922	GLU
17	a	948	PHE
17	a	952	LYS
17	a	1088	HIS
17	a	1089	TYR
17	a	1101	VAL
17	a	1115	LYS
17	a	1118	SER
17	a	1151	SER
17	a	1152	ALA
17	a	1159	PRO
17	a	1165	VAL
17	a	1168	GLU
17	a	1181	ASP
17	a	1183	GLU
17	a	1184	VAL

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Mol	Chain	Res	Type
17	a	1189	TYR
17	a	1192	SER
17	a	1256	ASP
17	a	1277	ILE
17	a	1282	VAL
17	a	1283	PRO
17	a	1284	ASN
17	a	1314	THR
17	a	1320	THR
17	a	1368	TYR
17	a	1392	ARG
17	a	1393	HIS
17	a	1395	ILE
17	a	1396	ASN
17	a	1398	ALA
17	a	1403	LEU
17	a	1411	THR
17	a	1413	GLU
17	a	1459	TYR
17	a	1460	SER
17	a	1461	LEU
17	a	1486	TYR
17	a	1489	SER
17	a	1490	PRO
17	a	1491	MET
18	b	147	PRO
18	b	199	ALA
18	b	210	VAL
18	b	218	PRO
18	b	221	TYR
18	b	233	SER
18	b	234	ARG
18	b	235	LEU
18	b	244	MET
18	b	310	ILE
18	b	329	VAL
18	b	344	LYS
18	b	353	MET
18	b	426	ARG
18	b	428	PHE
18	b	430	LEU
18	b	456	LYS

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Mol	Chain	Res	Type
18	b	458	SER
18	b	462	ARG
18	b	466	SER
18	b	485	ASN
18	b	486	THR
18	b	498	ARG
18	b	526	SER
18	b	554	ASP
18	b	576	HIS
18	b	580	ALA
18	b	656	ASP
18	b	657	ILE
18	b	659	PRO
18	b	661	GLN
18	b	662	ARG
18	b	663	PHE
18	b	716	VAL
18	b	720	PRO
18	b	750	HIS
18	b	753	SER
18	b	791	PRO
18	b	820	SER
18	b	870	THR
18	b	1010	MET
18	b	1058	PHE
18	b	1096	ALA
18	b	1113	ARG
18	b	1146	ALA
18	b	1207	LYS
18	b	1208	ASN
19	c	124	VAL
19	c	126	SER
19	c	133	PRO
19	c	194	PHE
19	c	198	ALA
19	c	212	GLU
19	c	215	ARG
20	d	15	LEU
20	d	43	ARG
20	d	44	GLU
20	d	48	GLU
20	d	69	LYS

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Mol	Chain	Res	Type
20	d	87	LYS
20	d	112	ALA
21	e	52	LEU
21	e	55	THR
21	e	58	SER
21	e	76	PHE
21	e	81	SER
21	e	197	SER
22	f	121	PRO
22	f	122	LEU
23	g	47	ILE
23	g	97	LYS
23	g	127	ASN
23	g	135	ASP
24	h	24	VAL
24	h	37	ASN
24	h	66	PRO
24	h	82	ARG
24	h	114	LEU
24	h	117	ASP
24	h	118	HIS
25	i	7	CYS
25	i	20	LYS
25	i	21	VAL
25	i	23	ARG
25	i	49	GLN
25	i	51	SER
25	i	52	ASN
25	i	54	GLU
25	i	58	VAL
25	i	59	SER
25	i	74	GLU
25	i	79	HIS
25	i	80	GLN
25	i	96	MET
25	i	111	GLU
25	i	112	GLU
26	j	2	ILE
26	j	28	ASP
27	k	79	ASP
28	l	44	CYS
28	l	49	MET

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Mol	Chain	Res	Type
2	H	65	ALA
4	R	92	ASP
4	R	182	MET
5	T	42	LYS
5	T	43	LEU
5	T	70	GLU
8	N	341	GLU
8	N	414	GLY
8	N	447	PRO
8	N	544	VAL
11	U	104	GLN
12	3	12	ASP
12	3	15	SER
12	3	16	ARG
12	3	18	GLU
12	3	44	ASP
12	3	68	TYR
12	3	82	GLN
12	3	83	PHE
12	3	87	ILE
17	a	14	ARG
17	a	24	LEU
17	a	51	ARG
17	a	71	THR
17	a	72	CYS
17	a	78	ASP
17	a	96	GLY
17	a	108	VAL
17	a	115	LEU
17	a	136	ARG
17	a	157	GLY
17	a	162	ASP
17	a	163	LEU
17	a	180	PRO
17	a	198	ASP
17	a	232	GLU
17	a	327	PRO
17	a	329	LYS
17	a	335	LEU
17	a	337	GLY
17	a	428	GLY
17	a	445	GLY

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Mol	Chain	Res	Type
17	a	485	ASN
17	a	552	VAL
17	a	604	SER
17	a	615	ASN
17	a	647	ILE
17	a	710	PRO
17	a	748	ASN
17	a	749	VAL
17	a	784	GLY
17	a	801	GLU
17	a	805	PHE
17	a	810	TYR
17	a	817	GLN
17	a	836	LYS
17	a	909	GLU
17	a	917	MET
17	a	920	SER
17	a	927	VAL
17	a	928	GLN
17	a	949	ILE
17	a	976	LEU
17	a	1062	SER
17	a	1066	MET
17	a	1086	THR
17	a	1092	VAL
17	a	1095	LYS
17	a	1097	VAL
17	a	1119	LEU
17	a	1131	MET
17	a	1150	THR
17	a	1166	ILE
17	a	1170	LYS
17	a	1209	LYS
17	a	1247	ARG
17	a	1248	ASP
17	a	1253	ALA
17	a	1255	ASP
17	a	1262	GLU
17	a	1276	SER
17	a	1280	ARG
17	a	1366	GLY
17	a	1412	VAL

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Mol	Chain	Res	Type
17	a	1475	THR
17	a	1477	GLN
17	a	1480	GLU
17	a	1483	GLY
18	b	105	ARG
18	b	108	ASN
18	b	148	SER
18	b	181	PRO
18	b	214	ALA
18	b	226	ARG
18	b	237	SER
18	b	280	ASP
18	b	293	ASP
18	b	299	MET
18	b	319	TYR
18	b	323	ARG
18	b	331	ARG
18	b	350	ILE
18	b	431	THR
18	b	470	ASN
18	b	481	LEU
18	b	491	ASP
18	b	495	ALA
18	b	499	GLN
18	b	510	PRO
18	b	655	TYR
18	b	701	GLN
18	b	705	GLU
18	b	713	ALA
18	b	781	MET
18	b	792	LEU
18	b	813	ILE
18	b	825	GLU
18	b	868	ARG
18	b	871	THR
18	b	877	GLY
18	b	896	GLY
18	b	1006	ILE
18	b	1055	SER
18	b	1056	ARG
18	b	1086	HIS
18	b	1089	ASP

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Mol	Chain	Res	Type
18	b	1110	GLY
18	b	1118	ARG
18	b	1172	SER
18	b	1205	PHE
19	c	128	SER
19	c	141	ARG
19	c	150	LYS
19	c	199	ASP
19	c	200	ALA
19	c	244	ILE
20	d	66	ALA
20	d	81	LEU
20	d	118	GLN
21	e	22	VAL
21	e	25	ARG
21	e	48	MET
21	e	50	ARG
21	e	67	SER
21	e	69	LYS
21	e	98	ASN
21	e	119	ALA
21	e	129	THR
21	e	176	ALA
22	f	61	GLY
22	f	62	LYS
22	f	63	ALA
22	f	94	ASN
23	g	20	GLY
23	g	128	PRO
23	g	134	GLU
24	h	55	PHE
24	h	63	LEU
24	h	90	LYS
24	h	111	LEU
25	i	34	TYR
25	i	56	THR
25	i	60	HIS
25	i	73	LYS
25	i	76	PRO
25	i	86	TYR
25	i	98	THR
25	i	106	CYS

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Mol	Chain	Res	Type
25	i	109	ALA
26	j	43	TYR
26	j	44	CYS
27	k	59	GLY
27	k	76	THR
28	l	36	LYS
28	l	48	VAL
28	l	57	MET
1	F	60	ALA
1	F	65	ASP
2	H	39	SER
3	Q	44	GLU
3	Q	265	ALA
3	Q	521	SER
5	T	61	ASN
5	T	90	TRP
5	T	94	GLN
8	N	122	LEU
8	N	205	SER
8	N	215	PHE
8	N	242	LEU
8	N	364	HIS
8	N	412	GLY
8	N	501	LEU
8	N	517	VAL
8	N	873	LEU
10	G	221	ILE
12	3	20	GLU
12	3	41	TYR
12	3	42	PHE
14	I	67	GLU
17	a	39	PHE
17	a	40	PRO
17	a	109	CYS
17	a	130	TYR
17	a	165	ASN
17	a	210	PRO
17	a	254	PRO
17	a	259	ASP
17	a	382	TYR
17	a	384	GLU
17	a	391	ILE

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Mol	Chain	Res	Type
17	a	427	ALA
17	a	429	ASP
17	a	489	ASP
17	a	513	VAL
17	a	708	LEU
17	a	713	GLY
17	a	875	GLY
17	a	950	PHE
17	a	954	ASP
17	a	1042	LYS
17	a	1065	GLU
17	a	1090	ALA
17	a	1093	SER
17	a	1098	THR
17	a	1099	LEU
17	a	1102	PRO
17	a	1164	THR
17	a	1186	GLU
17	a	1239	LEU
17	a	1260	ILE
17	a	1264	VAL
17	a	1265	PHE
17	a	1286	THR
17	a	1294	LYS
17	a	1339	VAL
17	a	1409	GLU
17	a	1426	ASP
17	a	1472	GLY
17	a	1473	MET
18	b	11	THR
18	b	34	GLN
18	b	167	ASN
18	b	211	PHE
18	b	220	ALA
18	b	240	GLN
18	b	243	LEU
18	b	245	ALA
18	b	248	THR
18	b	276	GLY
18	b	292	ASN
18	b	387	PHE
18	b	394	LEU

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Mol	Chain	Res	Type
18	b	467	GLN
18	b	496	LYS
18	b	539	PRO
18	b	556	ASN
18	b	614	THR
18	b	621	ARG
18	b	627	ASP
18	b	658	ASP
18	b	660	GLU
18	b	712	PRO
18	b	821	GLY
18	b	872	LEU
18	b	893	ARG
18	b	1025	ALA
18	b	1078	PRO
18	b	1163	TYR
18	b	1206	THR
19	c	41	PRO
19	c	113	GLY
19	c	175	SER
19	c	184	TRP
19	c	240	PRO
19	c	242	ASN
20	d	11	ALA
20	d	16	GLY
20	d	84	ARG
20	d	99	GLU
21	e	54	ARG
21	e	65	ASN
21	e	86	GLU
21	e	109	SER
21	e	117	ILE
21	e	167	GLU
22	f	107	PRO
23	g	66	GLN
23	g	102	ALA
23	g	103	ASN
23	g	106	PRO
24	h	81	TYR
24	h	115	SER
25	i	9	GLU
25	i	11	ASN

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Mol	Chain	Res	Type
25	i	78	CYS
25	i	89	HIS
25	i	95	THR
26	j	5	ILE
27	k	47	ASN
27	k	81	SER
1	F	112	ASN
1	F	141	THR
3	Q	337	ILE
3	Q	340	ASP
5	T	50	PRO
5	T	120	VAL
6	K	93	LYS
8	N	136	ALA
8	N	220	VAL
8	N	238	VAL
8	N	257	PRO
8	N	347	LYS
17	a	9	SER
17	a	70	GLN
17	a	170	MET
17	a	206	ARG
17	a	238	ASP
17	a	245	LEU
17	a	318	PRO
17	a	380	LEU
17	a	435	GLY
17	a	531	GLN
17	a	597	ASP
17	a	619	ILE
17	a	646	GLU
17	a	781	ILE
17	a	858	TYR
17	a	1144	THR
17	a	1167	GLU
17	a	1263	ASP
17	a	1279	LEU
17	a	1303	THR
17	a	1327	GLY
17	a	1479	PRO
18	b	29	SER
18	b	36	PHE

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Mol	Chain	Res	Type
18	b	104	ALA
18	b	205	ALA
18	b	216	PRO
18	b	230	GLU
18	b	239	MET
18	b	281	ARG
18	b	332	GLU
18	b	382	ASP
18	b	459	MET
18	b	631	ASN
18	b	724	VAL
18	b	1114	ASP
18	b	1156	GLY
18	b	1186	TYR
18	b	1209	HIS
19	c	100	SER
19	c	168	HIS
21	e	26	GLY
21	e	49	GLY
21	e	133	SER
23	g	21	PRO
23	g	52	SER
23	g	129	PRO
24	h	43	ASN
24	h	54	THR
24	h	59	ILE
25	i	82	GLU
25	i	91	ARG
25	i	107	GLY
27	k	22	LEU
27	k	36	LYS
27	k	40	THR
27	k	45	LEU
28	l	37	GLU
28	l	55	LYS
3	Q	60	LEU
4	R	83	GLU
4	R	180	VAL
5	T	12	PRO
7	V	96	SER
8	N	97	LEU
8	N	174	ILE

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Mol	Chain	Res	Type
8	N	231	SER
8	N	432	THR
8	N	485	GLN
8	N	851	ALA
11	U	30	HIS
17	a	7	SER
17	a	11	VAL
17	a	97	PHE
17	a	268	LEU
17	a	317	GLN
17	a	344	GLY
17	a	667	GLY
17	a	673	GLY
17	a	711	GLU
17	a	783	PHE
17	a	1038	TYR
17	a	1116	THR
17	a	1130	ASN
17	a	1145	THR
17	a	1308	ASP
17	a	1421	SER
18	b	12	LEU
18	b	56	LEU
18	b	107	ARG
18	b	228	ALA
18	b	429	ASN
18	b	487	PRO
18	b	538	ALA
18	b	737	ILE
18	b	929	PRO
18	b	949	GLY
18	b	989	PRO
18	b	1030	GLU
18	b	1169	GLU
19	c	86	TYR
19	c	169	ALA
19	c	214	PRO
19	c	222	PHE
20	d	68	PHE
20	d	116	ASP
23	g	64	PRO
24	h	30	VAL

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Mol	Chain	Res	Type
24	h	113	ARG
24	h	120	TYR
25	i	75	CYS
26	j	63	ASN
27	k	60	TYR
27	k	70	PHE
27	k	77	VAL
3	Q	463	ALA
10	G	75	GLN
12	3	13	ASP
17	a	209	SER
17	a	813	GLY
17	a	816	PRO
17	a	961	VAL
17	a	1009	ILE
17	a	1434	ILE
18	b	145	GLU
18	b	247	ASN
18	b	550	GLU
18	b	605	ILE
20	d	98	CYS
24	h	61	SER
28	l	32	THR
3	Q	278	ILE
14	I	65	PRO
17	a	406	PRO
17	a	514	PRO
17	a	589	PRO
17	a	1052	VAL
17	a	1110	VAL
17	a	1124	MET
18	b	42	VAL
18	b	232	GLY
18	b	434	VAL
27	k	118	VAL
17	a	176	GLY
18	b	453	GLY
18	b	560	SER
18	b	855	ILE
18	b	1108	VAL
19	c	258	VAL
25	i	65	ASP

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Mol	Chain	Res	Type
3	Q	42	ILE
3	Q	237	ILE
8	N	462	GLN
17	a	1414	ILE
18	b	397	PRO
17	a	470	PRO
17	a	1180	PRO
20	d	17	PRO
23	g	148	ILE
24	h	83	VAL
25	i	53	VAL
3	Q	211	VAL
17	a	237	PRO
18	b	208	VAL
18	b	1099	PRO
22	f	96	PRO
24	h	98	GLY
8	N	176	PRO
19	c	80	PRO
3	Q	162	PRO
17	a	712	PRO
17	a	1063	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	F	171/198 (86%)	171 (100%)	0	100	100
2	H	168/185 (91%)	167 (99%)	1 (1%)	78	83
3	Q	389/509 (76%)	389 (100%)	0	100	100
4	R	191/191 (100%)	191 (100%)	0	100	100
5	T	161/178 (90%)	161 (100%)	0	100	100
6	K	88/108 (82%)	88 (100%)	0	100	100
7	V	112/129 (87%)	112 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	N	369/799 (46%)	369 (100%)	0	100	100
17	a	1296/1536 (84%)	1089 (84%)	207 (16%)	2	11
18	b	1012/1064 (95%)	900 (89%)	112 (11%)	6	20
19	c	236/267 (88%)	217 (92%)	19 (8%)	11	31
20	d	106/115 (92%)	89 (84%)	17 (16%)	2	11
21	e	182/184 (99%)	170 (93%)	12 (7%)	15	37
22	f	71/121 (59%)	65 (92%)	6 (8%)	10	29
23	g	146/148 (99%)	136 (93%)	10 (7%)	14	36
24	h	113/114 (99%)	99 (88%)	14 (12%)	4	17
25	i	103/105 (98%)	80 (78%)	23 (22%)	1	6
26	j	59/66 (89%)	46 (78%)	13 (22%)	1	6
27	k	109/113 (96%)	100 (92%)	9 (8%)	10	30
28	l	39/53 (74%)	34 (87%)	5 (13%)	4	15
All	All	5121/6183 (83%)	4673 (91%)	448 (9%)	12	29

All (448) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	H	57	ILE
17	a	4	ILE
17	a	7	SER
17	a	10	SER
17	a	15	ARG
17	a	36	LYS
17	a	39	PHE
17	a	43	MET
17	a	46	SER
17	a	48	GLN
17	a	49	ARG
17	a	51	ARG
17	a	52	VAL
17	a	56	LEU
17	a	67	PHE
17	a	71	THR
17	a	72	CYS
17	a	85	HIS
17	a	86	ILE

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Mol	Chain	Res	Type
17	a	87	GLU
17	a	88	LEU
17	a	106	GLU
17	a	115	LEU
17	a	117	ILE
17	a	118	ASP
17	a	121	ASN
17	a	150	CYS
17	a	154	LEU
17	a	155	SER
17	a	158	SER
17	a	159	ASP
17	a	163	LEU
17	a	164	SER
17	a	169	ASN
17	a	170	MET
17	a	188	ARG
17	a	194	LYS
17	a	197	LYS
17	a	200	SER
17	a	202	LEU
17	a	204	GLU
17	a	205	LYS
17	a	206	ARG
17	a	207	LEU
17	a	208	LEU
17	a	232	GLU
17	a	253	ARG
17	a	256	ILE
17	a	257	SER
17	a	258	VAL
17	a	262	SER
17	a	263	ARG
17	a	266	ASP
17	a	267	ASP
17	a	268	LEU
17	a	269	THR
17	a	271	LYS
17	a	322	GLN
17	a	326	ARG
17	a	328	LEU
17	a	329	LYS

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Mol	Chain	Res	Type
17	a	330	SER
17	a	335	LEU
17	a	336	LYS
17	a	338	LYS
17	a	341	ARG
17	a	343	ARG
17	a	357	THR
17	a	359	ILE
17	a	374	ARG
17	a	375	SER
17	a	380	LEU
17	a	385	THR
17	a	391	ILE
17	a	398	VAL
17	a	421	LEU
17	a	422	ARG
17	a	424	HIS
17	a	426	ARG
17	a	430	ILE
17	a	432	LEU
17	a	442	ILE
17	a	452	ARG
17	a	460	SER
17	a	466	ILE
17	a	472	SER
17	a	473	THR
17	a	475	ARG
17	a	476	LEU
17	a	478	LEU
17	a	479	SER
17	a	495	MET
17	a	507	ILE
17	a	511	THR
17	a	513	VAL
17	a	523	ASN
17	a	533	THR
17	a	534	LEU
17	a	552	VAL
17	a	555	ILE
17	a	559	VAL
17	a	579	THR
17	a	583	ILE

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Mol	Chain	Res	Type
17	a	588	ILE
17	a	592	ILE
17	a	605	ASN
17	a	618	ILE
17	a	639	ILE
17	a	655	ILE
17	a	663	LEU
17	a	682	MET
17	a	686	THR
17	a	707	ARG
17	a	708	LEU
17	a	714	MET
17	a	724	VAL
17	a	730	GLN
17	a	732	ARG
17	a	733	ASP
17	a	747	ASN
17	a	758	LYS
17	a	762	ILE
17	a	764	ILE
17	a	770	CYS
17	a	773	GLN
17	a	775	ILE
17	a	776	VAL
17	a	781	ILE
17	a	785	PHE
17	a	801	GLU
17	a	802	SER
17	a	814	LEU
17	a	827	ARG
17	a	833	THR
17	a	837	THR
17	a	843	ILE
17	a	856	VAL
17	a	857	ARG
17	a	861	THR
17	a	869	ILE
17	a	886	TYR
17	a	905	ILE
17	a	919	ASN
17	a	921	ILE
17	a	922	GLU

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Mol	Chain	Res	Type
17	a	946	CYS
17	a	947	LYS
17	a	948	PHE
17	a	956	ARG
17	a	969	ASN
17	a	985	LEU
17	a	989	ILE
17	a	1001	THR
17	a	1002	ILE
17	a	1020	LEU
17	a	1028	LYS
17	a	1049	MET
17	a	1067	VAL
17	a	1086	THR
17	a	1087	PHE
17	a	1089	TYR
17	a	1093	SER
17	a	1097	VAL
17	a	1098	THR
17	a	1103	ARG
17	a	1104	LEU
17	a	1112	LYS
17	a	1114	ILE
17	a	1119	LEU
17	a	1127	ILE
17	a	1137	VAL
17	a	1140	GLN
17	a	1160	ASP
17	a	1162	GLN
17	a	1166	ILE
17	a	1169	ASP
17	a	1183	GLU
17	a	1246	ILE
17	a	1248	ASP
17	a	1251	ARG
17	a	1260	ILE
17	a	1261	GLU
17	a	1277	ILE
17	a	1309	GLU
17	a	1314	THR
17	a	1317	ILE
17	a	1328	VAL

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Mol	Chain	Res	Type
17	a	1341	ILE
17	a	1347	ILE
17	a	1350	THR
17	a	1355	LEU
17	a	1362	ILE
17	a	1374	LEU
17	a	1377	LEU
17	a	1387	LEU
17	a	1395	ILE
17	a	1397	ARG
17	a	1399	GLU
17	a	1400	THR
17	a	1403	LEU
17	a	1411	THR
17	a	1414	ILE
17	a	1442	MET
17	a	1444	THR
17	a	1449	ILE
17	a	1473	MET
17	a	1475	THR
17	a	1488	ARG
18	b	20	VAL
18	b	35	LEU
18	b	77	ILE
18	b	82	ILE
18	b	89	MET
18	b	106	LEU
18	b	194	GLU
18	b	201	GLU
18	b	212	LYS
18	b	213	LYS
18	b	235	LEU
18	b	241	ILE
18	b	244	MET
18	b	246	ARG
18	b	255	ILE
18	b	262	ILE
18	b	290	ASP
18	b	310	ILE
18	b	311	GLN
18	b	323	ARG
18	b	327	THR

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Mol	Chain	Res	Type
18	b	331	ARG
18	b	337	TYR
18	b	352	THR
18	b	404	ARG
18	b	422	VAL
18	b	424	THR
18	b	426	ARG
18	b	427	GLU
18	b	429	ASN
18	b	430	LEU
18	b	431	THR
18	b	438	ILE
18	b	439	ILE
18	b	447	LEU
18	b	456	LYS
18	b	459	MET
18	b	469	LEU
18	b	485	ASN
18	b	488	ILE
18	b	493	LYS
18	b	500	LEU
18	b	502	ASN
18	b	507	MET
18	b	508	VAL
18	b	524	ASN
18	b	550	GLU
18	b	552	LEU
18	b	573	LEU
18	b	619	ILE
18	b	654	ARG
18	b	655	TYR
18	b	657	ILE
18	b	662	ARG
18	b	668	LEU
18	b	669	VAL
18	b	690	SER
18	b	715	ARG
18	b	740	ILE
18	b	745	ILE
18	b	747	PHE
18	b	750	HIS
18	b	752	GLN

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Mol	Chain	Res	Type
18	b	753	SER
18	b	757	THR
18	b	760	SER
18	b	778	MET
18	b	780	THR
18	b	785	LEU
18	b	794	THR
18	b	797	SER
18	b	813	ILE
18	b	818	CYS
18	b	831	ASN
18	b	834	SER
18	b	835	ILE
18	b	839	LEU
18	b	843	ILE
18	b	870	THR
18	b	872	LEU
18	b	873	ARG
18	b	879	TYR
18	b	900	ILE
18	b	901	ILE
18	b	938	VAL
18	b	962	ILE
18	b	981	MET
18	b	993	GLN
18	b	995	ILE
18	b	999	ILE
18	b	1000	ILE
18	b	1011	THR
18	b	1020	LEU
18	b	1035	PRO
18	b	1039	VAL
18	b	1056	ARG
18	b	1060	VAL
18	b	1079	THR
18	b	1080	TYR
18	b	1083	ARG
18	b	1085	LYS
18	b	1088	VAL
18	b	1092	ILE
18	b	1104	THR
18	b	1112	SER

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Mol	Chain	Res	Type
18	b	1117	LEU
18	b	1128	ILE
18	b	1129	SER
18	b	1145	ASP
18	b	1197	SER
18	b	1200	ILE
18	b	1205	PHE
19	c	9	ILE
19	c	14	LYS
19	c	26	LEU
19	c	40	ILE
19	c	43	VAL
19	c	59	ASP
19	c	69	ILE
19	c	76	ILE
19	c	84	LEU
19	c	124	VAL
19	c	125	SER
19	c	126	SER
19	c	129	SER
19	c	130	LEU
19	c	146	CYS
19	c	154	ILE
19	c	242	ASN
19	c	249	LEU
19	c	252	LEU
20	d	9	ASP
20	d	13	LEU
20	d	15	LEU
20	d	23	ASP
20	d	25	LEU
20	d	31	LYS
20	d	40	GLN
20	d	43	ARG
20	d	52	THR
20	d	67	ARG
20	d	85	PHE
20	d	87	LYS
20	d	95	THR
20	d	96	LEU
20	d	97	CYS
20	d	98	CYS

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Mol	Chain	Res	Type
20	d	99	GLU
21	e	7	ASN
21	e	48	MET
21	e	52	LEU
21	e	84	ILE
21	e	139	ILE
21	e	148	HIS
21	e	168	THR
21	e	174	GLN
21	e	179	VAL
21	e	193	ILE
21	e	200	SER
21	e	209	CYS
22	f	60	SER
22	f	74	TYR
22	f	115	LEU
22	f	120	ILE
22	f	128	LEU
22	f	142	ILE
23	g	14	LEU
23	g	51	ASP
23	g	59	LYS
23	g	61	ARG
23	g	66	GLN
23	g	68	PHE
23	g	98	MET
23	g	101	PHE
23	g	114	HIS
23	g	139	GLU
24	h	14	THR
24	h	25	SER
24	h	27	ILE
24	h	36	MET
24	h	37	ASN
24	h	38	LEU
24	h	39	THR
24	h	40	LEU
24	h	57	LEU
24	h	59	ILE
24	h	62	ASN
24	h	63	LEU
24	h	65	SER

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Mol	Chain	Res	Type
24	h	70	GLU
25	i	3	ASN
25	i	17	ARG
25	i	20	LYS
25	i	25	LEU
25	i	26	ARG
25	i	42	LYS
25	i	47	GLU
25	i	57	THR
25	i	60	HIS
25	i	61	ASP
25	i	68	LEU
25	i	74	GLU
25	i	75	CYS
25	i	77	ARG
25	i	78	CYS
25	i	80	GLN
25	i	88	THR
25	i	90	SER
25	i	94	ASP
25	i	96	MET
25	i	100	ILE
25	i	112	GLU
25	i	113	GLN
26	j	2	ILE
26	j	3	ILE
26	j	5	ILE
26	j	13	VAL
26	j	20	THR
26	j	23	THR
26	j	41	GLN
26	j	42	ARG
26	j	44	CYS
26	j	45	CYS
26	j	46	ARG
26	j	49	ILE
26	j	56	ILE
27	k	12	LEU
27	k	31	VAL
27	k	54	ARG
27	k	55	VAL
27	k	72	LEU

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Mol	Chain	Res	Type
27	k	73	ARG
27	k	74	VAL
27	k	85	VAL
27	k	86	ILE
28	l	27	CYS
28	l	33	ILE
28	l	44	CYS
28	l	48	VAL
28	l	58	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (158) such sidechains are listed below:

Mol	Chain	Res	Type
1	F	59	ASN
1	F	69	GLN
1	F	77	GLN
1	F	94	GLN
1	F	112	ASN
1	F	137	GLN
1	F	152	GLN
1	F	162	ASN
1	F	207	HIS
2	H	18	HIS
2	H	25	GLN
2	H	47	HIS
2	H	51	ASN
2	H	56	GLN
2	H	62	ASN
2	H	63	ASN
3	Q	116	GLN
3	Q	302	GLN
3	Q	442	GLN
3	Q	496	GLN
3	Q	502	HIS
3	Q	525	ASN
3	Q	528	GLN
3	Q	532	HIS
4	R	51	GLN
4	R	142	GLN
4	R	160	ASN
4	R	178	ASN
5	T	4	HIS

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Mol	Chain	Res	Type
5	T	22	GLN
5	T	33	HIS
5	T	154	ASN
6	K	22	GLN
6	K	75	GLN
7	V	111	GLN
8	N	159	HIS
8	N	162	ASN
8	N	186	ASN
8	N	195	ASN
8	N	206	GLN
8	N	223	GLN
8	N	243	HIS
8	N	363	HIS
8	N	364	HIS
8	N	381	HIS
8	N	449	HIS
8	N	469	ASN
8	N	490	HIS
17	a	48	GLN
17	a	82	HIS
17	a	94	HIS
17	a	121	ASN
17	a	125	ASN
17	a	128	GLN
17	a	169	ASN
17	a	179	GLN
17	a	214	HIS
17	a	219	HIS
17	a	227	HIS
17	a	231	ASN
17	a	312	ASN
17	a	393	GLN
17	a	395	GLN
17	a	441	HIS
17	a	457	HIS
17	a	477	ASN
17	a	496	HIS
17	a	516	GLN
17	a	521	GLN
17	a	593	ASN
17	a	656	GLN

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Mol	Chain	Res	Type
17	a	665	HIS
17	a	705	HIS
17	a	748	ASN
17	a	763	ASN
17	a	817	GLN
17	a	864	ASN
17	a	887	GLN
17	a	898	GLN
17	a	919	ASN
17	a	937	GLN
17	a	969	ASN
17	a	972	GLN
17	a	1014	GLN
17	a	1088	HIS
17	a	1109	ASN
17	a	1156	HIS
17	a	1162	GLN
17	a	1293	HIS
17	a	1373	HIS
17	a	1396	ASN
17	a	1438	GLN
18	b	34	GLN
18	b	108	ASN
18	b	339	HIS
18	b	386	HIS
18	b	419	GLN
18	b	441	ASN
18	b	455	GLN
18	b	485	ASN
18	b	501	HIS
18	b	576	HIS
18	b	581	HIS
18	b	629	ASN
18	b	644	HIS
18	b	646	GLN
18	b	661	GLN
18	b	725	HIS
18	b	733	HIS
18	b	752	GLN
18	b	765	GLN
18	b	783	ASN
18	b	831	ASN

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Mol	Chain	Res	Type
18	b	876	HIS
18	b	973	HIS
18	b	985	HIS
18	b	993	GLN
18	b	1051	HIS
18	b	1063	HIS
18	b	1086	HIS
18	b	1093	HIS
18	b	1130	HIS
18	b	1181	GLN
18	b	1209	HIS
19	c	30	ASN
19	c	89	ASN
19	c	132	HIS
19	c	152	GLN
19	c	168	HIS
19	c	188	GLN
19	c	247	GLN
19	c	253	GLN
20	d	40	GLN
20	d	86	HIS
21	e	19	HIS
21	e	45	HIS
21	e	68	ASN
21	e	98	ASN
21	e	99	HIS
21	e	124	GLN
21	e	142	HIS
21	e	174	GLN
22	f	94	ASN
23	g	53	ASN
23	g	114	HIS
24	h	33	GLN
24	h	108	HIS
25	i	11	ASN
25	i	49	GLN
25	i	55	ASN
25	i	79	HIS
25	i	80	GLN
25	i	81	HIS
26	j	52	HIS
27	k	39	HIS

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Mol	Chain	Res	Type
27	k	64	HIS
27	k	68	HIS
27	k	96	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no 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
15	S	6
16	J	3
9	D	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	J	56:UNK	C	160:UNK	N	39.54
1	J	204:UNK	C	310:UNK	N	28.97

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	S	265:UNK	C	271:UNK	N	28.24
1	S	366:UNK	C	381:UNK	N	25.63
1	S	287:UNK	C	301:UNK	N	18.84
1	S	349:UNK	C	351:UNK	N	13.73
1	S	82:UNK	C	251:UNK	N	12.85
1	D	27:UNK	C	33:UNK	N	10.35
1	S	322:UNK	C	331:UNK	N	7.69
1	J	22:UNK	C	25:UNK	N	5.75

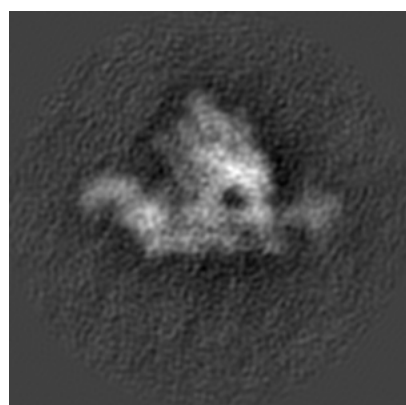
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8480. These allow visual inspection of the internal detail of the map and identification of artifacts.

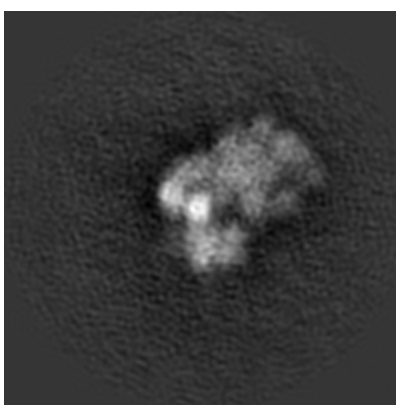
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

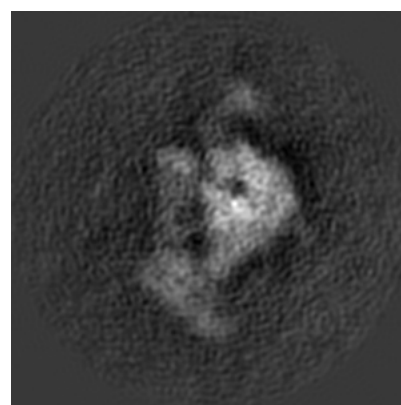
6.1.1 Primary map



X



Y

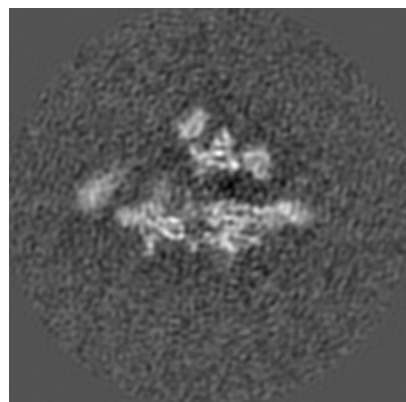


Z

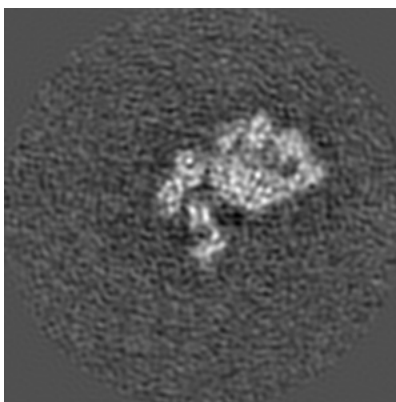
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

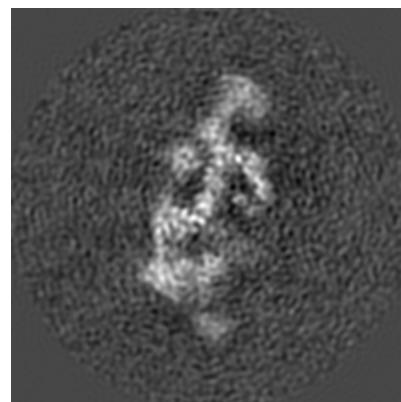
6.2.1 Primary map



X Index: 88



Y Index: 88

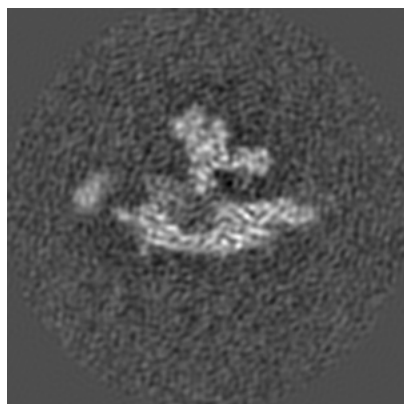


Z Index: 88

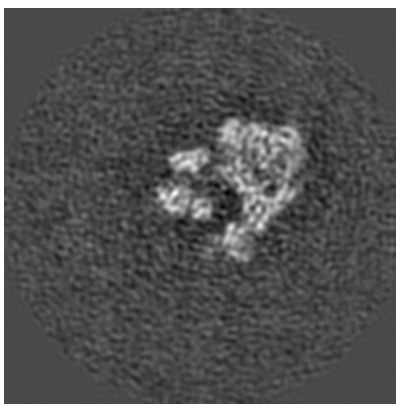
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

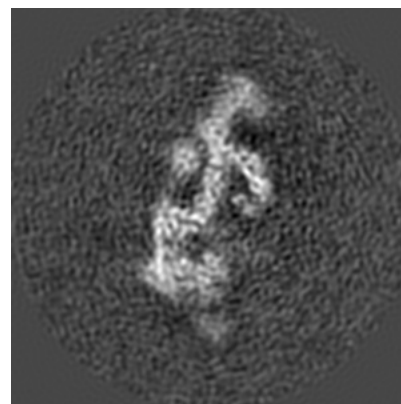
6.3.1 Primary map



X Index: 91



Y Index: 94

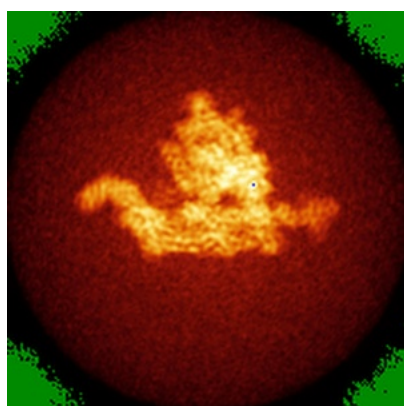


Z Index: 87

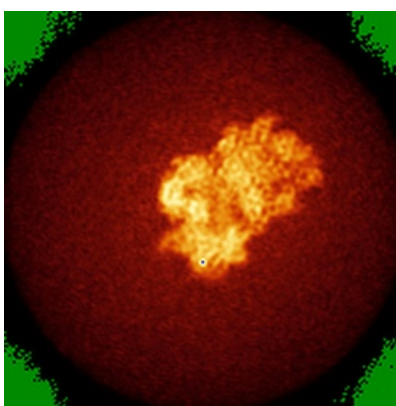
The images above show the largest variance slices of the map in three orthogonal directions.

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

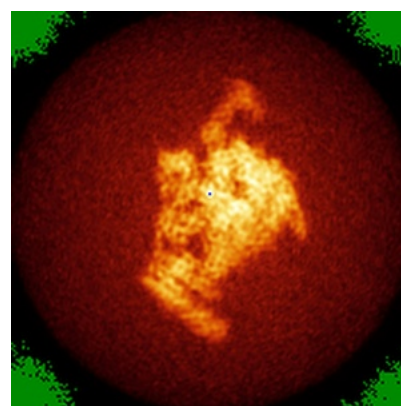
6.4.1 Primary map



X



Y

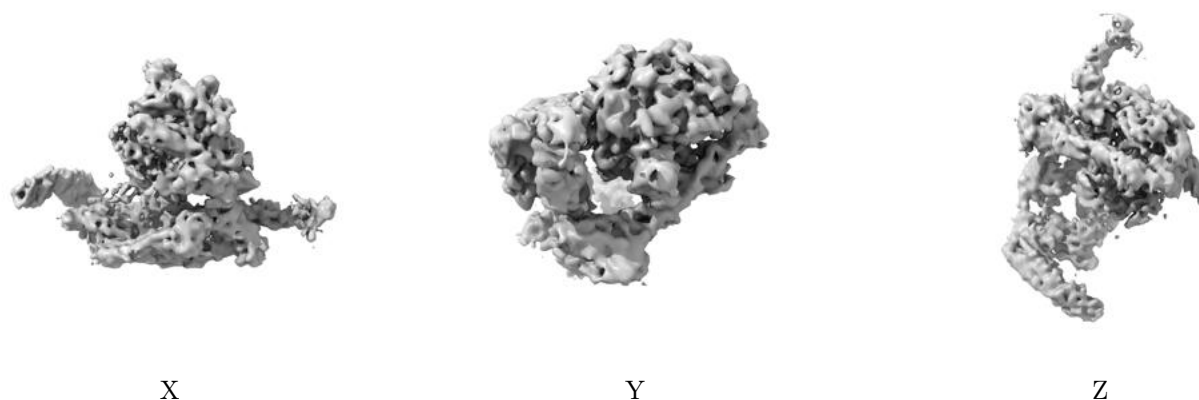


Z

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 0.08. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

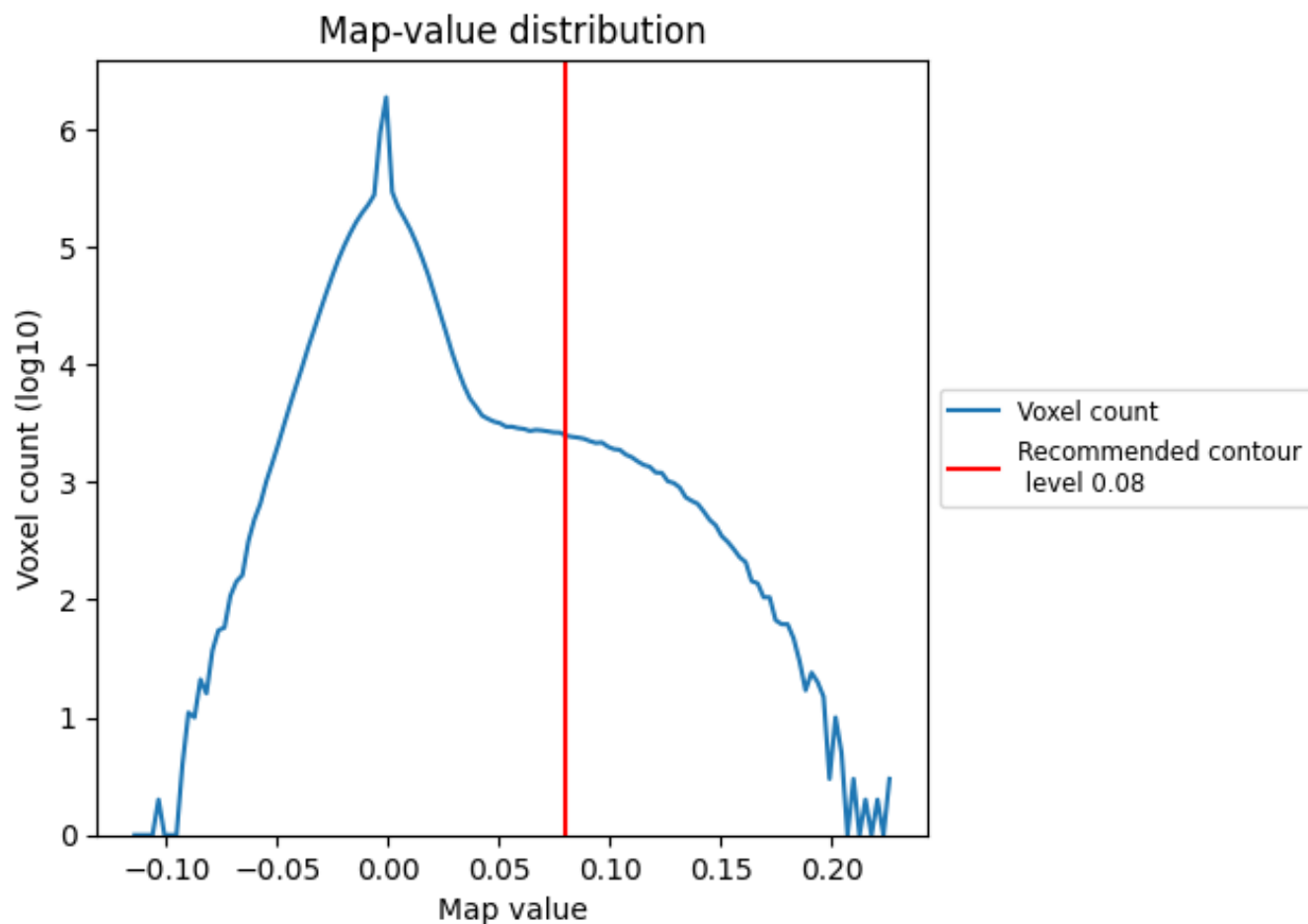
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

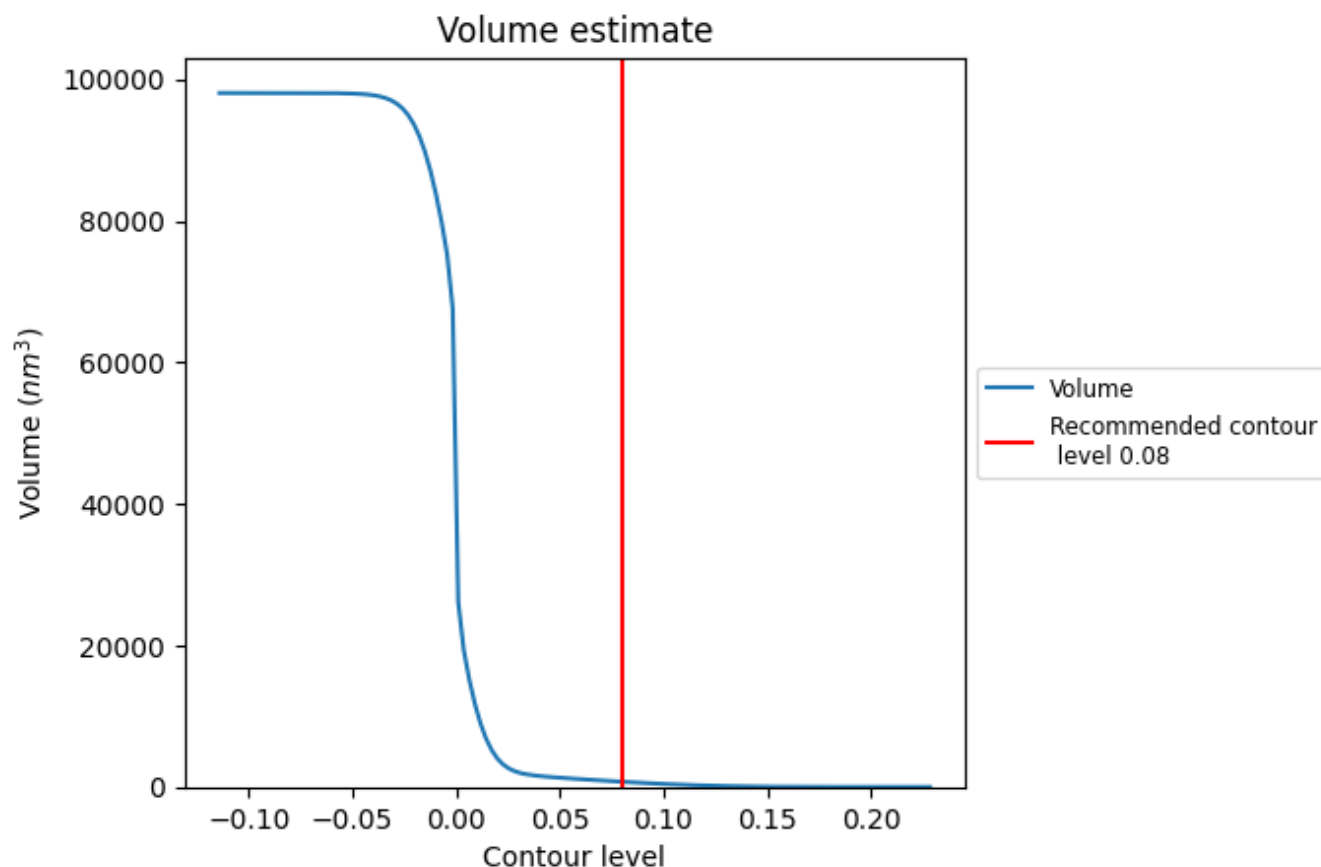
This section contains the results of statistical analysis of the map.

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.

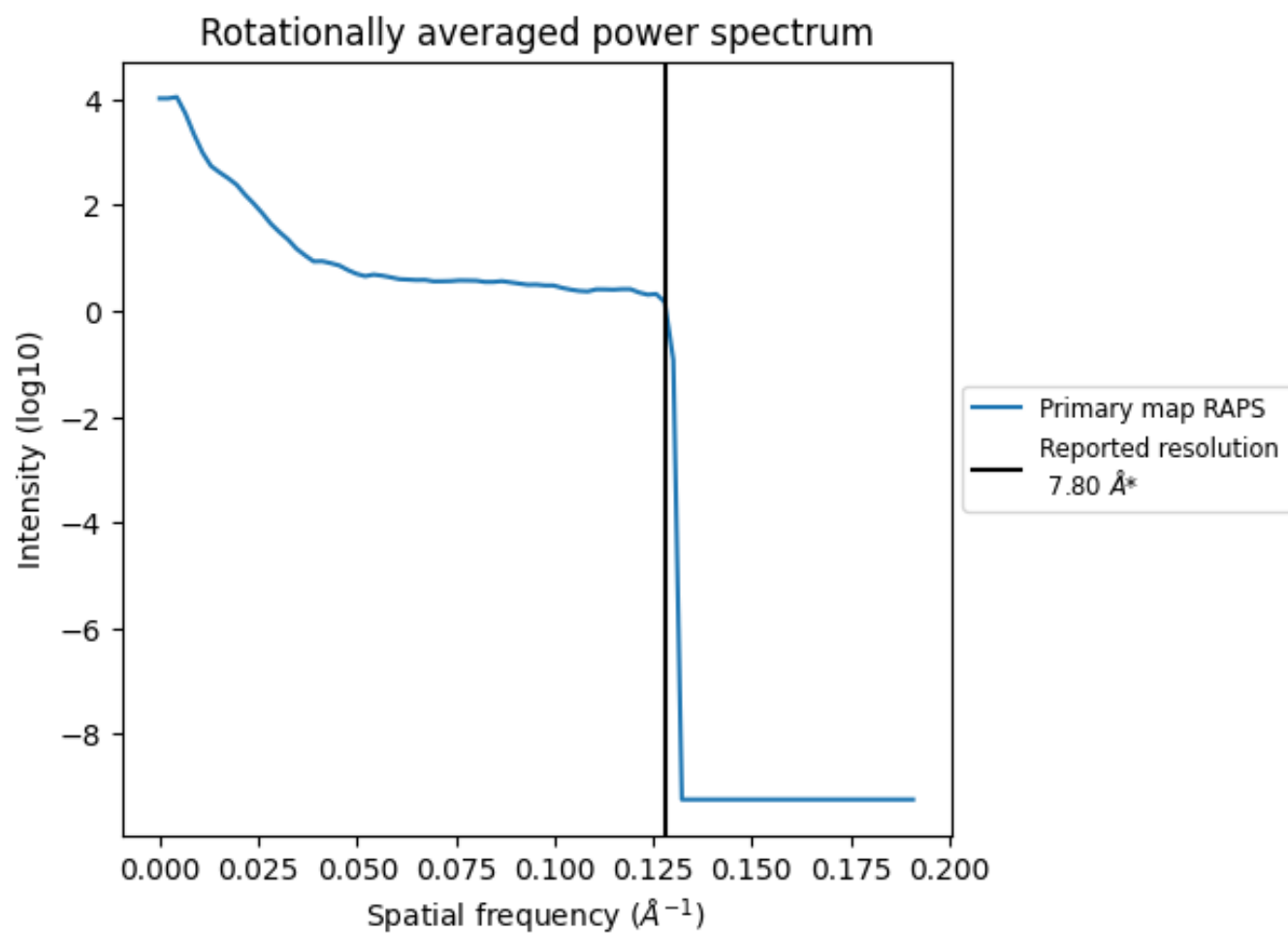
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 735 nm^3 ; this corresponds to an approximate mass of 664 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 0.128 Å⁻¹

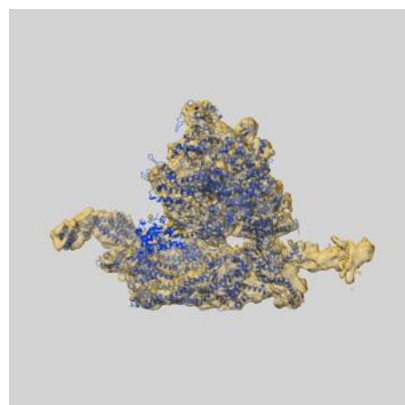
8 Fourier-Shell correlation ⓘ

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

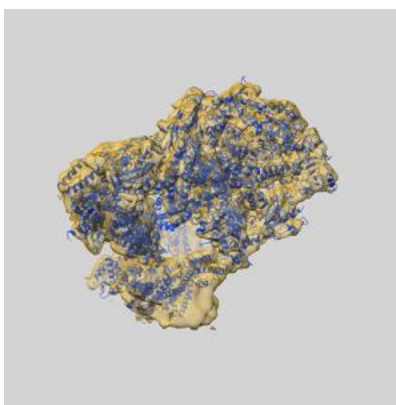
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-8480 and PDB model 5U0S. Per-residue inclusion information can be found in section [3](#) on page [9](#).

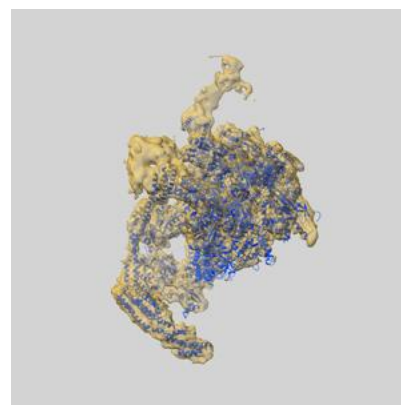
9.1 Map-model overlay [i](#)



X



Y



Z

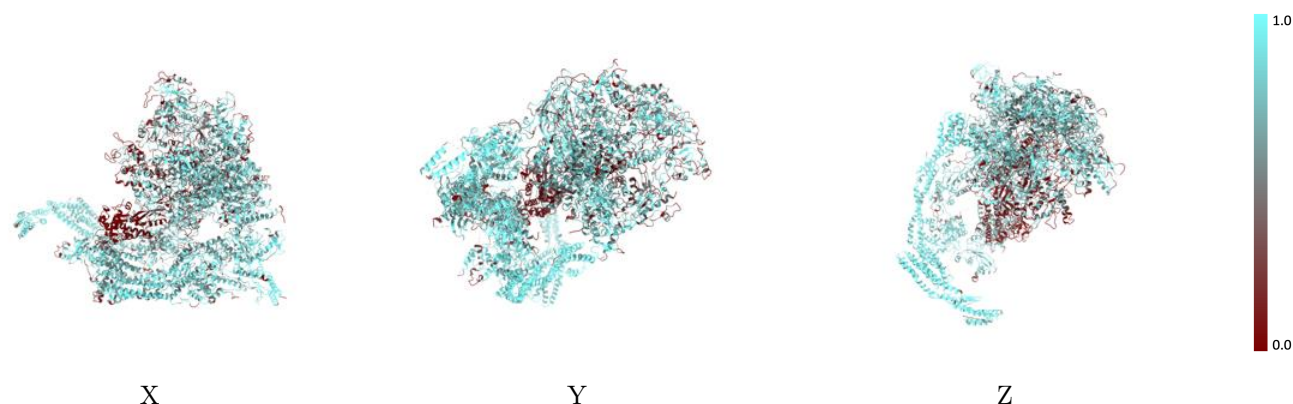
The images above show the 3D surface view of the map at the recommended contour level 0.08 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



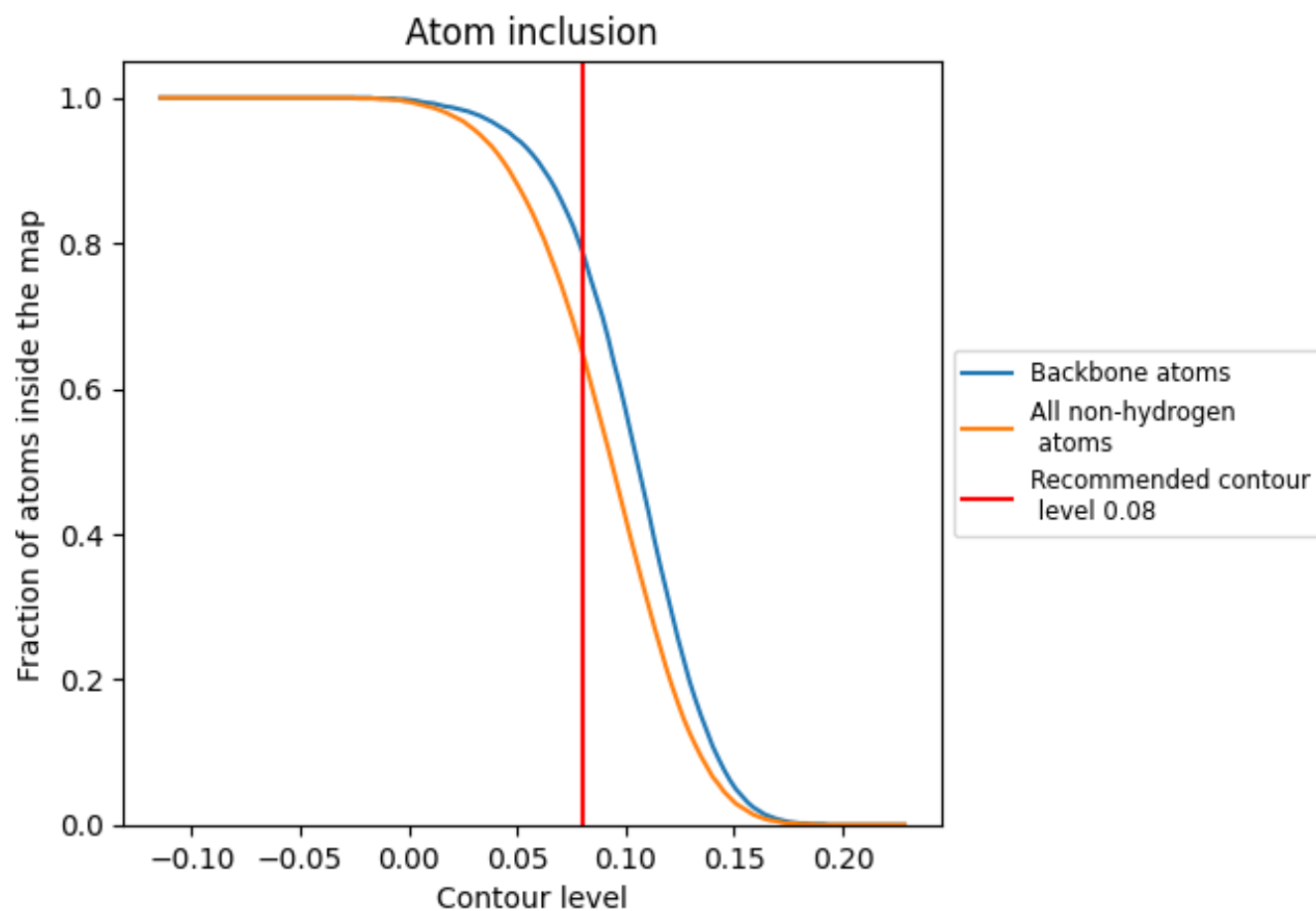
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.08).

9.4 Atom inclusion [i](#)



At the recommended contour level, 79% of all backbone atoms, 65% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.08) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6510	 0.1230
2	 0.9430	 0.2260
3	 0.9440	 0.2070
D	 0.9040	 0.2350
F	 0.7220	 0.1270
G	 0.9510	 0.2160
H	 0.6980	 0.1620
I	 0.9470	 0.2090
J	 0.9650	 0.1540
K	 0.8310	 0.1410
N	 0.7830	 0.1550
Q	 0.7090	 0.1510
R	 0.7780	 0.1390
S	 0.8950	 0.1070
T	 0.8170	 0.1470
U	 0.9290	 0.1950
V	 0.7990	 0.1510
a	 0.5630	 0.1050
b	 0.6170	 0.1000
c	 0.7060	 0.1160
d	 0.0250	 0.0450
e	 0.5410	 0.1010
f	 0.5840	 0.1210
g	 0.1180	 0.0370
h	 0.6740	 0.1180
i	 0.4990	 0.0900
j	 0.7100	 0.0990
k	 0.5410	 0.1320
l	 0.6190	 0.0870

