



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 27, 2024 – 01:40 PM EST

PDB ID : 1BR4
Title : SMOOTH MUSCLE MYOSIN MOTOR DOMAIN-ESSENTIAL LIGHT CHAIN COMPLEX WITH MGADP.BEF3 BOUND AT THE ACTIVE SITE
Authors : Dominguez, R.; Trybus, K.M.; Cohen, C.
Deposited on : 1998-08-27
Resolution : 3.62 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtrriage (Phenix) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

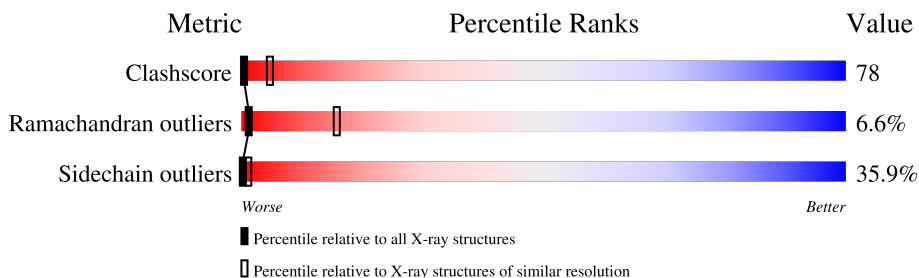
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.62 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	1387 (3.74-3.50)
Ramachandran outliers	138981	1339 (3.74-3.50)
Sidechain outliers	138945	1339 (3.74-3.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	820	16% 52% 26% 5%
1	C	820	16% 52% 25% 5%
1	E	820	16% 52% 26% 5%
1	G	820	16% 52% 25% 5%
2	B	150	16% 50% 31% ..
2	D	150	17% 50% 30% ..
2	F	150	15% 53% 31% .
2	H	150	15% 52% 31% ..

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 29948 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called MYOSIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	781	6292	4009	1078	1176	29	0	0	0
1	C	781	6292	4009	1078	1176	29	0	0	0
1	E	781	6292	4009	1078	1176	29	0	0	0
1	G	781	6292	4009	1078	1176	29	0	0	0

- Molecule 2 is a protein called MYOSIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	148	1161	722	193	235	11	0	0	0
2	D	148	1161	722	193	235	11	0	0	0
2	F	148	1161	722	193	235	11	0	0	0
2	H	148	1161	722	193	235	11	0	0	0

- Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total 1	Mg 1	0	0
3	C	1	Total 1	Mg 1	0	0
3	E	1	Total 1	Mg 1	0	0
3	G	1	Total 1	Mg 1	0	0

- Molecule 4 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
4	A	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
4	C	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
4	E	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
4	G	1	Total	C	N	O	P	0	0
			27	10	5	10	2		

- Molecule 5 is BERYLLIUM TRIFLUORIDE ION (three-letter code: BEF) (formula: BeF_3).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	Be	F	0	0
			4	1	3		
5	C	1	Total	Be	F	0	0
			4	1	3		
5	E	1	Total	Be	F	0	0
			4	1	3		
5	G	1	Total	Be	F	0	0
			4	1	3		

- Molecule 6 is water.

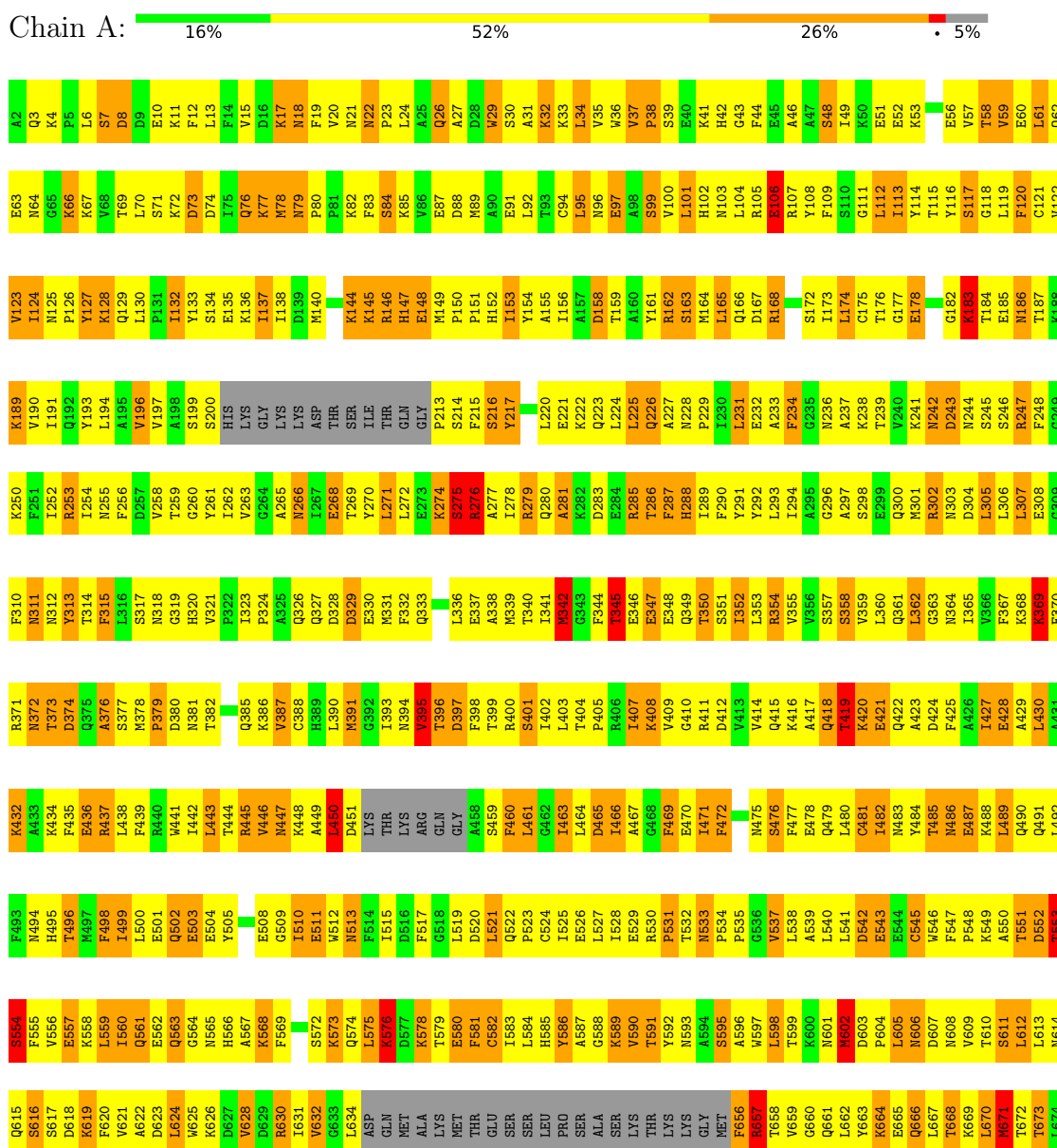
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	2	Total	O	0	0
			2	2		
6	C	2	Total	O	0	0
			2	2		
6	E	2	Total	O	0	0
			2	2		
6	G	2	Total	O	0	0
			2	2		

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. 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. 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.

Note EDS was not executed.

- Molecule 1: MYOSIN

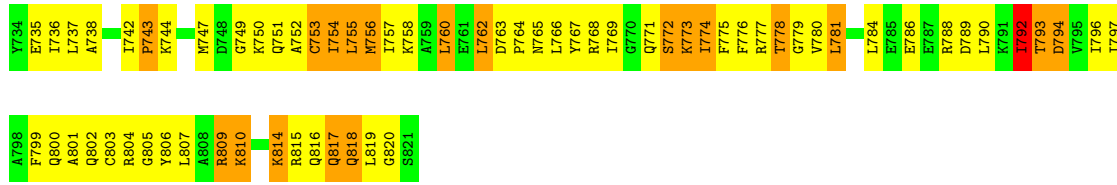


R675	R676	R677	R678	R679	R680	R681	R682	R683	R684	R685	R686	R687	R688	R689	R690	R691	R692	R693	R694	R695	R696	R697	R698	R699	R700	R701	R702	R703	R704	R705	R706	R707	R708	R709	R710	R711	R712	R713	R714	R715	R716	R717	R718	R719	R720	R721	R722	R723	R724	R725	R726	R727	R728	R729	R730	R731	R732	R733	R734	R735																																																																																																																																										
I736	I737	A738	I742	P743	K744	G745	F746	L747	D748	K749	K750	Q751	A752	C753	I754	L755	M756	I757	K758	A759	L760	E761	L762	D763	P764	M765	L766	Y767	R768	L769	G770	Q771	K772	K773	L774	F775	F776	R777	L778	G779	F780	V781	L784	E785	E786	E787	E788	L789	K791	I792	F793	D794	V795	I796	I797	L798	A798																																																																																																																																													
F799	Q800	A801	Q802	C803	R804	G805	Y806	L807	A808	R809	K810	K814	R815	Q816	Q817	Q818	L819	G820	S821	A822	A823	A824	A825	A826	A827	A828	A829	A830	A831	A832	A833	A834	A835	A836	A837	A838	A839	A840	A841	A842	A843	A844	A845	A846	A847	A848	A849	A850	A851	A852	A853	A854	A855	A856	A857	A858	A859	A860	A861	A862	A863	A864	A865	A866	A867	A868	A869	A870	A871	A872	A873	A874	A875	A876	A877	A878	A879	A880	A881	A882	A883	A884	A885	A886	A887	A888	A889	A890	A891	A892	A893	A894	A895	A896	A897	A898	A899	A900	A901	A902	A903	A904	A905	A906	A907	A908	A909	A910	A911	A912	A913	A914	A915	A916	A917	A918	A919	A920	A921	A922	A923	A924	A925	A926	A927	A928	A929	A930	A931	A932	A933	A934	A935	A936	A937	A938	A939	A940	A941	A942	A943	A944	A945	A946	A947	A948	A949	A950	A951	A952	A953	A954	A955	A956	A957	A958	A959	A960	A961	A962	A963	A964	A965	A966	A967	A968	A969	A970	A971	A972	A973	A974	A975	A976	A977	A978	A979	A980	A981	A982	A983	A984	A985	A986	A987	A988	A989	A990	A991	A992	A993	A994	A995	A996	A997	A998	A999	A1000

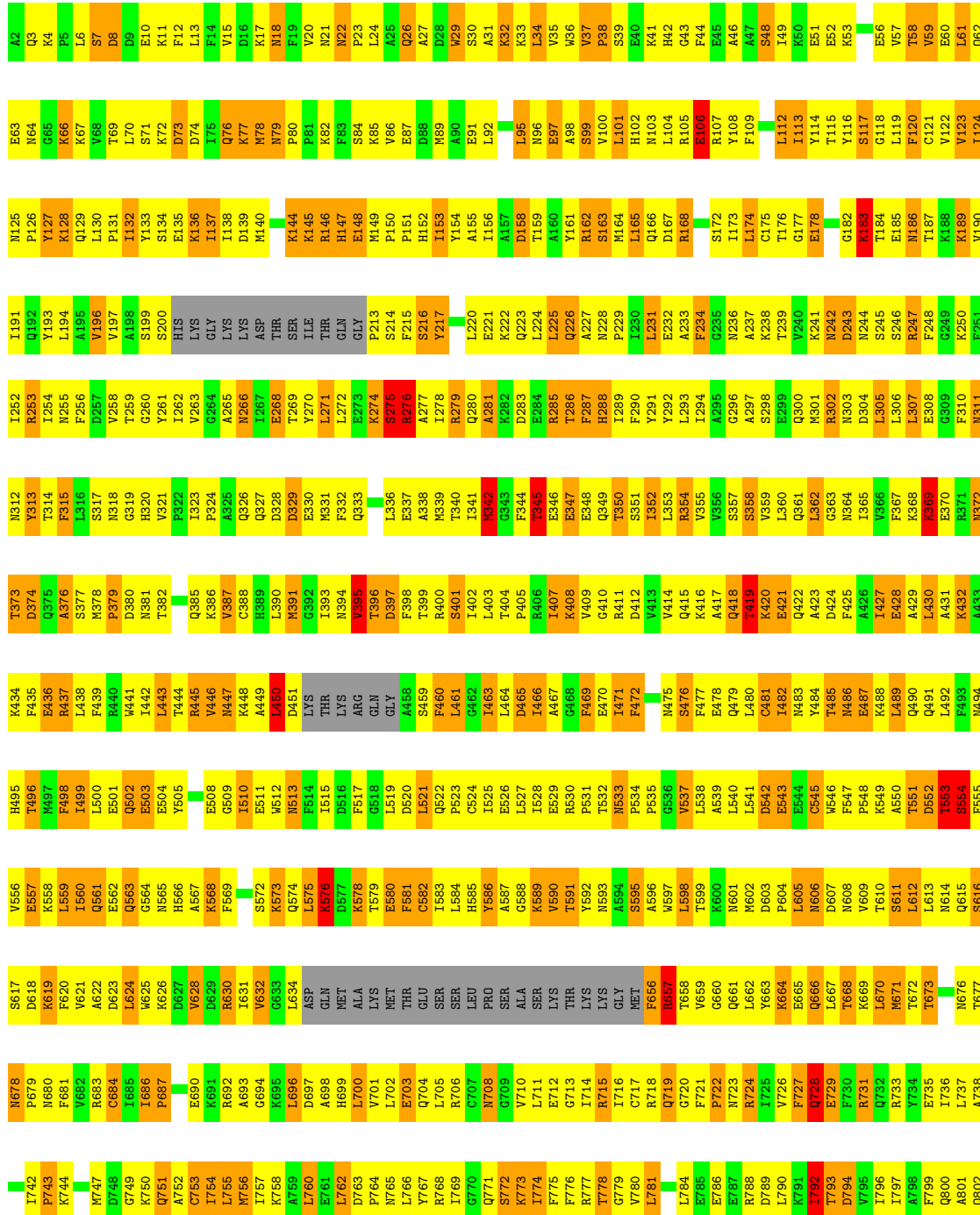
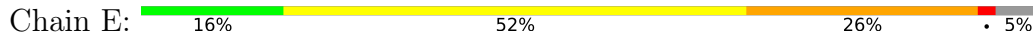
● Molecule 1: MYOSIN

Chain C: 16% 52% 25% 5%

A2	Q3	M4	K4	P5	L6	S7	D8	D9	E10	K11	F12	L13	F14	V15	D16	K17	M18	F19	P20	V21	N22	P23	L24	A25	V26	N27	A28	D29	E30	A31	L32	R33	C34	L35	L36	L37	L38	L39	L40	L41	L42	L43	L44	L45	L46	L47	L48	L49	L50	L51	L52	L53	L54	L55	L56	L57	L58	L59	L60	L61	L62	L63	L64	L65	L66	L67	L68	L69	L70	L71	L72	L73	L74	L75	L76	L77	L78	L79	L80	L81	L82	L83	L84	L85	L86	L87	L88	L89	L90	L91	L92	L93	L94	L95	L96	L97	L98	L99	L100	L101	L102	L103	L104	L105	L106	L107	L108	L109	L110	L111	L112	L113	L114	L115	L116	L117	L118	L119	L120	L121	L122	L123	L124	M125	K126	K127	K128	Q129	L130	P131	I132	Y133	D134	S135	A136	K137	I138	L139	M140	K141	K142	R143	H144	A145	M146	A147	L148	L149	P150	P151	H152	I153	E154	Y155	A156	I157	A158	R159	R160	R161	R162	R163	R164	R165	R166	R167	R168	R169	R170	R171	R172	R173	R174	R175	R176	R177	R178	R179	R180	R181	R182	R183	R184	R185	R186	R187	R188	R189	R190	R191	R192	R193	R194	R195	R196	R197	R198	R199	R200	R201	R202	R203	R204	R205	R206	R207	R208	R209	R210	R211	R212	R213	R214	R215	R216	R217	R218	R219	R220	R221	R222	R223	R224	R225	R226	R227	R228	R229	R230	R231	R232	R233	R234	R235	R236	R237	R238	R239	R240	R241	R242	R243	R244	R245	R246	R247	R248	R249	R250	R251	R252	R253	R254	R255	R256	R257	R258	R259	R260	R261	R262	R263	R264	R265	R266	R267	R268	R269	R270	R271	R272	R273	R274	R275	R276	R277	R278	R279	R280	R281	R282	R283	R284	R285	R286	R287	R288	R289	R290	R291	R292	R293	R294	R295	R296	R297	R298	R299	R300	R301	R302	R303	R304	R305	R306	R307	R308	R309	R310	R311	R312	R313	R314	R315	R316	R317	R318	R319	R320	R321	R322	R323	R324	R325	R326	R327	R328	R329	R330	R331	R332	R333	R334	R335	R336	R337	R338	R339	R340	R341	R342	R343	R344	R345	R346	R347	R348	R349	R350	R351	R352	R353	R354	R355	R356	R357	R358	R359	R360	R361	R362	R363	R364	R365	R366	R367	R368	R369	R370	R371	R372	R373	R374	R375	R376	R377	R378	R379	R380	R381	R382	R383	R384	R385	R386	R387	R388	R389	R390	R391	R392	R393	R394	R395	R396	R397	R398	R399	R400	R401	R402	R403	R404	R405	R406	R407	R408	R409	R410	R411	R412	R413	R414	R415	R416	R417	R418	R419	R420	R421	R422	R423	R424	R425	R426	R427	R428	R429	R430	R431	R432	R433	R434	R435	R436	R437	R438	R439	R440	R441	R442	R443	R444	R445	R446	R447	R448	R449	R450	R451	R452	R453	R454	R455	R456	R457	R458	R459	R460	R461	R462	R463	R464	R465	R466	R467	R468	R469	R470	R471	R472	R473	R474	R475	R476	R477	R478	R479	R480	R481	R482	R483	R484	R485	R486	R487	R488	R489	R490	R491	R492	R493	R494	R495	R496	R497	R498	R499	R500	R501	R502	R503	R504	R505	R506	R507	R508	R509	R510	R511	R512	R513	R514	R515	R516	R517	R518	R519	R520	R521	R522	R523	R524	R525	R526	R527	R528	R529	R530	R531	R532	R533	R534	R535	R536	R537	R538	R539	R540	R541	R542	R543	R544	R545	R546	R547	R548	R549	R550	R551	R552	R553	R554	R555	R556	R557	R558	R559	R560	R561	R562	R563	R564	R565	R566	R567	R568	R569	R570	R571	R572	R573	R574	R575	R576	R577	R578	R579	R580	R581	R582	R583	R584	R585	R586	R587	R588	R589	R590	R591	R592	R593	R594	R595	R596	R597	R598	R599	R600	R601	R602	R603	R604	R605	R606	R607	R608	R609	R610	R611	R612	R613	R614	R615	R616	R617	R618	R619	R620	R621	R622	R623	R624	R625	R626	R627	R628	R629	R630	R631	R632	R633	R634	R635	R636	R637	R638	R639	R640	R641	R642	R643	R644	R645	R646	R647	R648	R649	R650	R651	R652	R653	R654	R655	R656	R657	R658	R659	R660	R661	R662	R663	R664	R665	R666	R667	R668	R669	R670	R671	R672	R673	R674	R675	R676	R677	R678	R679	R680	R681	R682	R683	R684	R685	R686	R687	R688	R689	R690	R691	R692	R693	R694	R695	R696	R697	R698	R699	R700	R701	R702	R703	R704	R705	R706	R707	R708	R709	R710	R711	R712	R713	R714	R715	R716	R717	R718	R719	R720	R721	R722	R723	R724	R725	R726	R727	R728	R729	R730	R731	R732	R733
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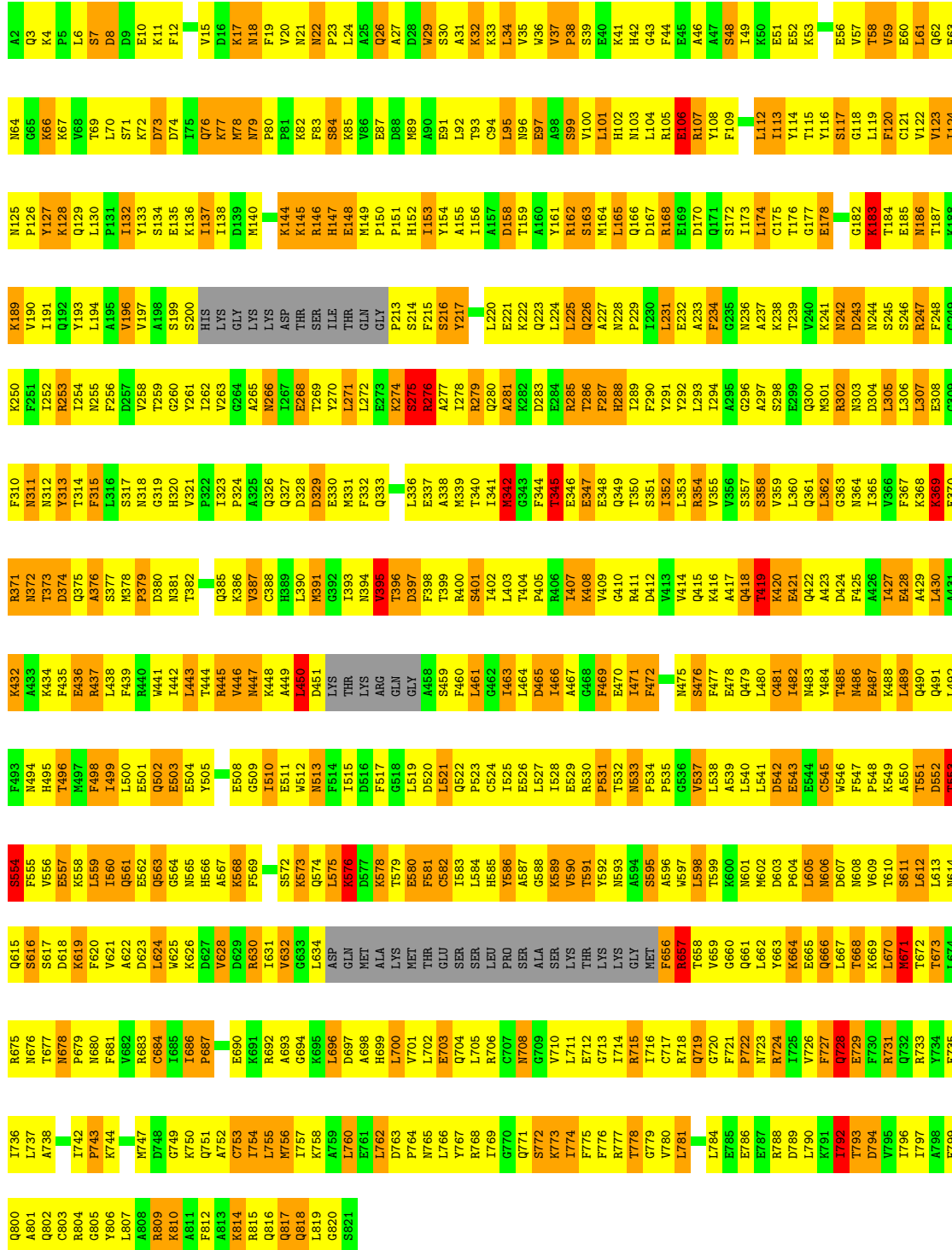
• Molecule 1: MYOSIN



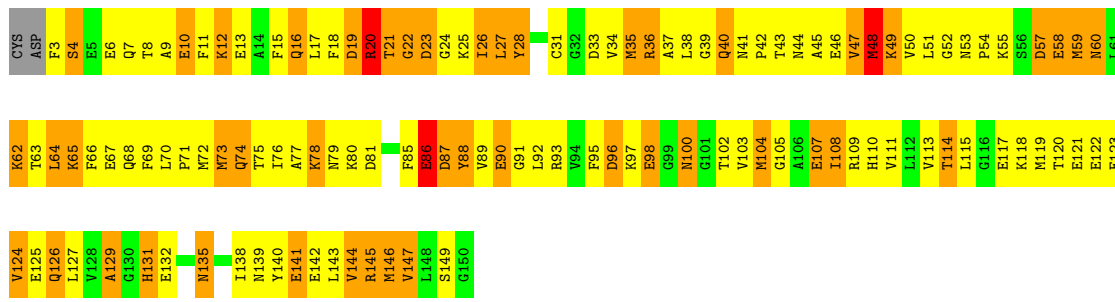
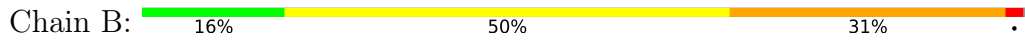
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G820
S821

• Molecule 1: MYOSIN

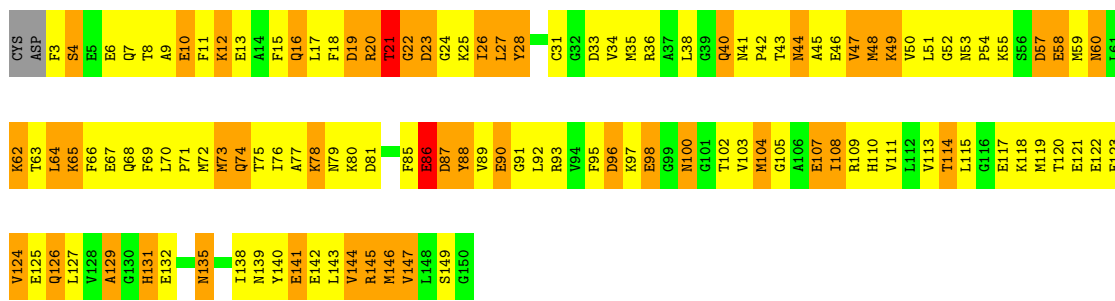
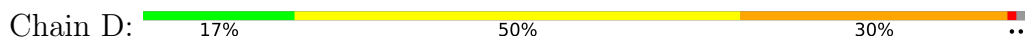
Chain G: 16% 52% 25% 5%



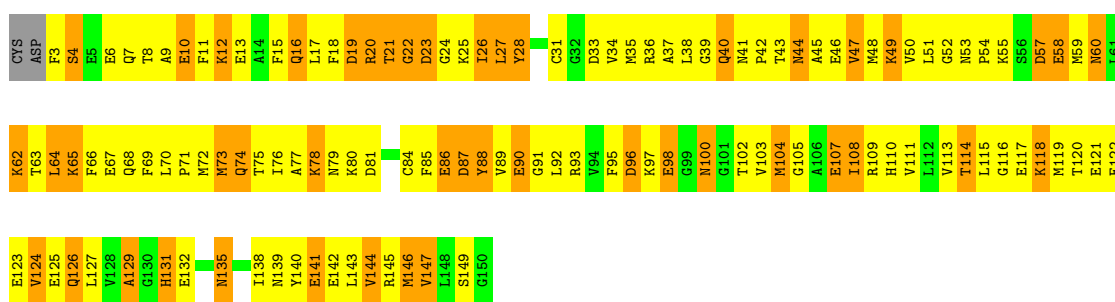
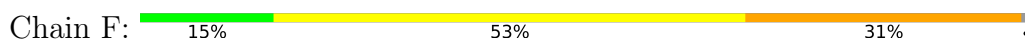
• Molecule 2: MYOSIN



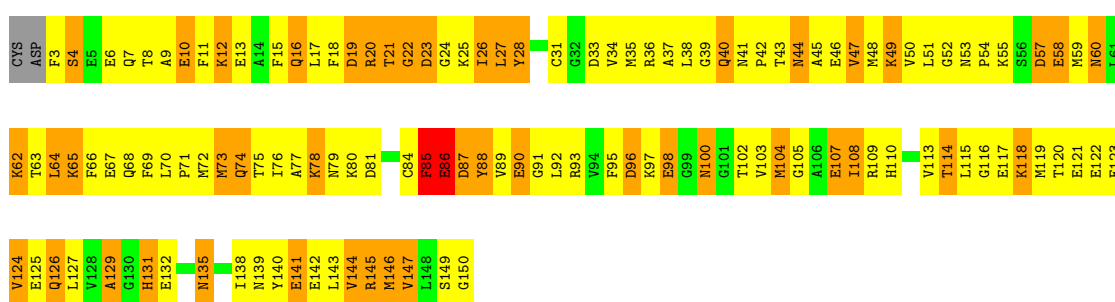
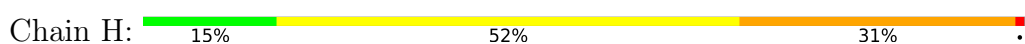
● Molecule 2: MYOSIN



● Molecule 2: MYOSIN



● Molecule 2: MYOSIN



4 Data and refinement statistics

Xtrriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	95.32Å 144.66Å 147.29Å 111.21° 106.10° 92.58°	Depositor
Resolution (Å)	10.00 – 3.62	Depositor
% Data completeness (in resolution range)	95.7 (10.00-3.62)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	0.11	Depositor
Refinement program	X-PLOR 3.851	Depositor
R, R_{free}	0.277 , 0.352	Depositor
Estimated twinning fraction	No twinning to report.	Xtrriage
Total number of atoms	29948	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

5 Model quality i

5.1 Standard geometry i

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.47	0/6410	0.73	4/8640 (0.0%)
1	C	0.48	0/6410	0.74	2/8640 (0.0%)
1	E	0.49	0/6410	0.75	3/8640 (0.0%)
1	G	0.48	0/6410	0.75	4/8640 (0.0%)
2	B	0.64	0/1176	0.91	5/1575 (0.3%)
2	D	0.59	0/1176	0.86	1/1575 (0.1%)
2	F	0.59	0/1176	0.86	1/1575 (0.1%)
2	H	0.58	0/1176	0.84	0/1575
All	All	0.50	0/30344	0.77	20/40860 (0.0%)

There are no bond length outliers.

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	276	ARG	NE-CZ-NH2	7.51	124.05	120.30
1	E	276	ARG	NE-CZ-NH2	7.50	124.05	120.30
1	A	279	ARG	NE-CZ-NH2	7.43	124.02	120.30
1	C	276	ARG	NE-CZ-NH2	7.43	124.02	120.30
1	G	276	ARG	NE-CZ-NH2	7.38	123.99	120.30
1	C	279	ARG	NE-CZ-NH2	7.37	123.98	120.30
1	G	279	ARG	NE-CZ-NH2	7.36	123.98	120.30
1	E	279	ARG	NE-CZ-NH2	7.33	123.97	120.30
1	E	657	ARG	NE-CZ-NH2	7.30	123.95	120.30
1	A	657	ARG	NE-CZ-NH2	7.28	123.94	120.30
1	G	657	ARG	NE-CZ-NH2	7.24	123.92	120.30
2	B	36	ARG	NE-CZ-NH2	7.09	123.84	120.30
2	D	20	ARG	NE-CZ-NH2	6.84	123.72	120.30
2	F	20	ARG	NE-CZ-NH2	6.79	123.69	120.30
2	B	20	ARG	NE-CZ-NH2	6.25	123.42	120.30
2	B	59	MET	CG-SD-CE	6.09	109.95	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	35	MET	CG-SD-CE	6.06	109.90	100.20
2	B	48	MET	CG-SD-CE	6.03	109.84	100.20
1	A	602	MET	CG-SD-CE	5.67	109.27	100.20
1	G	371	ARG	NE-CZ-NH2	5.25	122.92	120.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6292	0	6301	979	3
1	C	6292	0	6301	952	0
1	E	6292	0	6301	973	0
1	G	6292	0	6301	975	11
2	B	1161	0	1126	223	0
2	D	1161	0	1126	211	11
2	F	1161	0	1126	221	3
2	H	1161	0	1126	220	0
3	A	1	0	0	0	0
3	C	1	0	0	0	0
3	E	1	0	0	0	0
3	G	1	0	0	0	0
4	A	27	0	12	3	0
4	C	27	0	12	4	0
4	E	27	0	12	2	0
4	G	27	0	12	3	0
5	A	4	0	0	0	0
5	C	4	0	0	0	0
5	E	4	0	0	0	0
5	G	4	0	0	0	0
6	A	2	0	0	0	0
6	C	2	0	0	0	0
6	E	2	0	0	0	0
6	G	2	0	0	0	0
All	All	29948	0	29756	4645	14

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 78.

All (4645) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:814:LYS:O	1:A:817:GLN:HG3	1.28	1.32
1:C:814:LYS:O	1:C:817:GLN:HG3	1.27	1.32
1:A:747:MET:SD	1:G:812:PHE:HZ	1.53	1.31
1:G:814:LYS:O	1:G:817:GLN:HG3	1.28	1.29
1:E:814:LYS:O	1:E:817:GLN:HG3	1.28	1.24
1:E:268:GLU:HG2	1:E:270:TYR:OH	1.39	1.23
1:C:805:GLY:O	1:C:809:ARG:HG2	1.39	1.23
1:A:268:GLU:HG2	1:A:270:TYR:OH	1.40	1.22
1:G:268:GLU:HG2	1:G:270:TYR:OH	1.39	1.22
1:G:805:GLY:O	1:G:809:ARG:HG2	1.39	1.19
2:H:9:ALA:O	2:H:12:LYS:HG3	1.40	1.18
2:B:9:ALA:O	2:B:12:LYS:HG3	1.40	1.18
2:D:9:ALA:O	2:D:12:LYS:HG3	1.40	1.18
2:F:9:ALA:O	2:F:12:LYS:HG3	1.40	1.18
1:C:268:GLU:HG2	1:C:270:TYR:OH	1.39	1.17
1:E:686:ILE:HG22	1:E:704:GLN:HE22	1.07	1.17
1:A:805:GLY:O	1:A:809:ARG:HG2	1.40	1.17
2:B:7:GLN:O	2:B:11:PHE:HD1	1.28	1.17
1:A:747:MET:SD	1:G:812:PHE:CZ	2.37	1.16
1:E:805:GLY:O	1:E:809:ARG:HG2	1.39	1.16
2:F:7:GLN:O	2:F:11:PHE:HD1	1.27	1.16
2:D:7:GLN:O	2:D:11:PHE:HD1	1.27	1.16
2:H:7:GLN:O	2:H:11:PHE:HD1	1.27	1.15
1:G:686:ILE:HG22	1:G:704:GLN:HE22	1.07	1.14
1:A:686:ILE:HG22	1:A:704:GLN:HE22	1.07	1.13
2:D:51:LEU:O	2:D:54:PRO:HD3	1.48	1.13
2:H:51:LEU:O	2:H:54:PRO:HD3	1.48	1.13
2:B:51:LEU:O	2:B:54:PRO:HD3	1.47	1.13
2:F:51:LEU:O	2:F:54:PRO:HD3	1.48	1.11
1:C:686:ILE:HD13	1:C:687:PRO:HD2	1.31	1.09
2:B:28:TYR:HE2	2:B:54:PRO:HG3	1.10	1.09
1:E:686:ILE:HD13	1:E:687:PRO:HD2	1.31	1.09
1:G:686:ILE:HD13	1:G:687:PRO:HD2	1.31	1.08
1:C:686:ILE:HG22	1:C:704:GLN:HE22	1.07	1.07
1:E:298:SER:H	1:E:301:MET:HG2	1.19	1.07
1:G:298:SER:H	1:G:301:MET:HG2	1.18	1.06
1:A:686:ILE:HD13	1:A:687:PRO:HD2	1.31	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:28:TYR:HE2	2:F:54:PRO:HG3	1.15	1.06
2:D:28:TYR:HE2	2:D:54:PRO:HG3	1.15	1.06
1:A:628:VAL:O	1:A:628:VAL:HG22	1.55	1.05
1:E:628:VAL:HG22	1:E:628:VAL:O	1.55	1.05
2:H:28:TYR:HE2	2:H:54:PRO:HG3	1.15	1.05
1:C:298:SER:H	1:C:301:MET:HG2	1.18	1.05
1:E:541:LEU:HD23	1:E:601:ASN:HD22	1.21	1.05
1:C:628:VAL:HG22	1:C:628:VAL:O	1.55	1.04
1:G:541:LEU:HD23	1:G:601:ASN:HD22	1.21	1.04
1:A:298:SER:H	1:A:301:MET:HG2	1.20	1.02
1:C:805:GLY:O	1:C:809:ARG:CG	2.07	1.02
1:G:628:VAL:O	1:G:628:VAL:HG22	1.55	1.02
1:C:753:CYS:SG	1:C:774:ILE:HD11	1.99	1.02
1:E:376:ALA:HB2	1:E:420:LYS:HA	1.42	1.02
1:A:753:CYS:SG	1:A:774:ILE:HD11	2.00	1.02
1:A:805:GLY:O	1:A:809:ARG:CG	2.08	1.02
1:C:541:LEU:HD23	1:C:601:ASN:HD22	1.21	1.02
1:E:805:GLY:O	1:E:809:ARG:CG	2.07	1.02
2:B:28:TYR:CE2	2:B:54:PRO:HG3	1.94	1.01
1:E:753:CYS:SG	1:E:774:ILE:HD11	1.99	1.01
1:G:805:GLY:O	1:G:809:ARG:CG	2.07	1.01
2:F:7:GLN:O	2:F:11:PHE:CD1	2.13	1.01
1:G:376:ALA:HB2	1:G:420:LYS:HA	1.40	1.01
1:G:753:CYS:SG	1:G:774:ILE:HD11	1.99	1.01
2:H:7:GLN:O	2:H:11:PHE:CD1	2.13	1.01
2:B:7:GLN:O	2:B:11:PHE:CD1	2.14	1.00
1:A:328:ASP:HA	1:A:331:MET:HB2	1.44	1.00
1:C:490:GLN:HE21	1:C:494:ASN:HD21	1.03	1.00
1:E:333:GLN:O	1:E:337:GLU:HG3	1.61	1.00
2:F:65:LYS:HB2	2:F:68:GLN:HG3	1.44	1.00
1:G:268:GLU:HG2	1:G:270:TYR:CZ	1.97	1.00
1:A:541:LEU:HD23	1:A:601:ASN:HD22	1.24	0.99
1:G:543:GLU:HA	1:G:546:TRP:HD1	1.27	0.99
1:A:333:GLN:O	1:A:337:GLU:HG3	1.62	0.99
1:A:490:GLN:HE21	1:A:494:ASN:HD21	1.03	0.99
1:C:333:GLN:O	1:C:337:GLU:HG3	1.61	0.99
2:B:12:LYS:O	2:B:16:GLN:HG2	1.63	0.99
2:D:7:GLN:O	2:D:11:PHE:CD1	2.13	0.99
1:C:328:ASP:HA	1:C:331:MET:HB2	1.44	0.99
1:A:77:LYS:HD2	1:A:96:ASN:HD21	1.28	0.99
1:E:328:ASP:HA	1:E:331:MET:HB2	1.45	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:268:GLU:HG2	1:C:270:TYR:CZ	1.97	0.99
2:F:28:TYR:CE2	2:F:54:PRO:HG3	1.98	0.99
1:G:242:ASN:HB3	1:G:245:SER:HB2	1.45	0.98
2:H:65:LYS:HB2	2:H:68:GLN:HG3	1.44	0.98
1:E:268:GLU:HG2	1:E:270:TYR:CZ	1.97	0.98
2:F:85:PHE:O	2:F:89:VAL:HG22	1.63	0.98
2:D:12:LYS:O	2:D:16:GLN:HG2	1.62	0.98
2:H:12:LYS:O	2:H:16:GLN:HG2	1.62	0.98
1:A:376:ALA:HB2	1:A:420:LYS:HA	1.42	0.98
1:G:333:GLN:O	1:G:337:GLU:HG3	1.61	0.98
1:A:268:GLU:HG2	1:A:270:TYR:CZ	1.98	0.98
2:D:28:TYR:CE2	2:D:54:PRO:HG3	1.98	0.97
1:E:89:MET:HG2	1:E:92:LEU:HD11	1.46	0.97
1:G:328:ASP:HA	1:G:331:MET:HB2	1.44	0.97
1:C:376:ALA:HB2	1:C:420:LYS:HA	1.41	0.97
1:A:543:GLU:HA	1:A:546:TRP:HD1	1.28	0.97
1:C:242:ASN:HB3	1:C:245:SER:HB2	1.45	0.97
1:C:268:GLU:CG	1:C:270:TYR:CZ	2.48	0.97
2:F:12:LYS:O	2:F:16:GLN:HG2	1.62	0.97
1:G:77:LYS:HD2	1:G:96:ASN:HD21	1.27	0.97
2:H:28:TYR:CE2	2:H:54:PRO:HG3	1.98	0.97
1:A:89:MET:HG2	1:A:92:LEU:HD11	1.46	0.97
1:E:12:PHE:CD2	1:E:131:PRO:HD2	1.99	0.97
1:E:543:GLU:HA	1:E:546:TRP:HD1	1.28	0.97
1:G:268:GLU:CG	1:G:270:TYR:CZ	2.48	0.97
1:C:543:GLU:HA	1:C:546:TRP:HD1	1.28	0.96
2:B:65:LYS:HB2	2:B:68:GLN:HG3	1.44	0.96
1:E:77:LYS:HD2	1:E:96:ASN:HD21	1.29	0.96
1:E:268:GLU:CG	1:E:270:TYR:CZ	2.48	0.96
1:E:742:ILE:HD11	1:E:752:ALA:O	1.67	0.95
1:A:268:GLU:CG	1:A:270:TYR:CZ	2.49	0.95
1:C:89:MET:HG2	1:C:92:LEU:HD11	1.46	0.95
2:D:65:LYS:HB2	2:D:68:GLN:HG3	1.44	0.95
1:C:268:GLU:HG2	1:C:270:TYR:HH	1.23	0.95
1:C:742:ILE:HD11	1:C:752:ALA:O	1.67	0.94
1:E:242:ASN:HB3	1:E:245:SER:HB2	1.45	0.94
1:A:242:ASN:HB3	1:A:245:SER:HB2	1.45	0.94
1:A:114:TYR:CE2	1:A:153:ILE:HB	2.03	0.94
2:H:44:ASN:CB	2:H:117:GLU:OE1	2.15	0.94
1:A:742:ILE:HD11	1:A:752:ALA:O	1.67	0.94
1:A:747:MET:HG3	1:G:812:PHE:CE2	2.02	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:742:ILE:HD11	1:G:752:ALA:O	1.67	0.94
2:B:89:VAL:HG12	2:B:144:VAL:HG21	1.49	0.94
1:E:114:TYR:CE2	1:E:153:ILE:HB	2.02	0.94
1:E:802:GLN:HG3	2:F:88:TYR:OH	1.68	0.94
1:C:114:TYR:CE2	1:C:153:ILE:HB	2.02	0.94
1:G:114:TYR:CE2	1:G:153:ILE:HB	2.02	0.94
1:A:145:LYS:HG3	1:A:146:ARG:HE	1.34	0.93
1:A:802:GLN:HG3	2:B:88:TYR:OH	1.68	0.93
2:D:89:VAL:HG12	2:D:144:VAL:HG21	1.49	0.93
1:G:89:MET:HG2	1:G:92:LEU:HD11	1.47	0.93
1:G:802:GLN:HG3	2:H:88:TYR:OH	1.68	0.93
1:C:628:VAL:O	1:C:628:VAL:CG2	2.17	0.93
1:C:145:LYS:HG3	1:C:146:ARG:HE	1.33	0.93
1:E:490:GLN:HE21	1:E:494:ASN:HD21	1.03	0.92
1:E:145:LYS:HG3	1:E:146:ARG:HE	1.34	0.92
1:C:3:GLN:H	1:C:18:ASN:HD21	1.18	0.92
1:G:490:GLN:HE21	1:G:494:ASN:HD21	1.03	0.92
1:C:802:GLN:HG3	2:D:88:TYR:OH	1.68	0.92
2:F:89:VAL:HG12	2:F:144:VAL:HG21	1.49	0.92
2:H:89:VAL:HG12	2:H:144:VAL:HG21	1.49	0.92
1:E:489:LEU:HD12	1:E:489:LEU:O	1.70	0.92
2:H:85:PHE:O	2:H:87:ASP:N	2.02	0.91
1:G:145:LYS:HG3	1:G:146:ARG:HE	1.34	0.91
1:G:489:LEU:HD12	1:G:489:LEU:O	1.70	0.91
1:A:489:LEU:O	1:A:489:LEU:HD12	1.70	0.91
2:B:9:ALA:HA	2:B:12:LYS:CE	2.01	0.91
1:E:800:GLN:HA	2:F:119:MET:HE2	1.53	0.91
1:E:490:GLN:NE2	1:E:494:ASN:HD21	1.69	0.91
1:G:628:VAL:O	1:G:628:VAL:CG2	2.17	0.91
2:F:9:ALA:HA	2:F:12:LYS:CE	2.01	0.91
1:A:628:VAL:O	1:A:628:VAL:CG2	2.18	0.91
1:E:527:LEU:HD11	1:E:569:PHE:HB2	1.53	0.91
1:A:800:GLN:HA	2:B:119:MET:HE2	1.52	0.90
1:G:800:GLN:HA	2:H:119:MET:HE2	1.53	0.90
1:E:323:ILE:HG23	1:E:326:GLN:HB3	1.53	0.90
1:E:628:VAL:O	1:E:628:VAL:CG2	2.17	0.90
1:A:490:GLN:NE2	1:A:494:ASN:HD21	1.69	0.90
1:E:3:GLN:H	1:E:18:ASN:HD21	1.18	0.90
1:G:527:LEU:HD11	1:G:569:PHE:HB2	1.53	0.90
1:C:489:LEU:HD12	1:C:489:LEU:O	1.70	0.90
1:G:490:GLN:NE2	1:G:494:ASN:HD21	1.69	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:527:LEU:HD11	1:C:569:PHE:HB2	1.53	0.89
2:D:9:ALA:HA	2:D:12:LYS:CE	2.01	0.89
1:G:323:ILE:HG23	1:G:326:GLN:HB3	1.53	0.89
1:E:130:LEU:HB2	1:E:132:ILE:HD13	1.55	0.89
1:A:527:LEU:HD11	1:A:569:PHE:HB2	1.53	0.89
1:A:3:GLN:H	1:A:18:ASN:HD21	1.18	0.89
1:A:130:LEU:HB2	1:A:132:ILE:HD13	1.55	0.89
1:C:116:TYR:CE1	1:C:151:PRO:HB3	2.08	0.89
1:C:800:GLN:HA	2:D:119:MET:HE2	1.52	0.89
1:G:3:GLN:H	1:G:18:ASN:HD21	1.18	0.89
2:H:9:ALA:HA	2:H:12:LYS:CE	2.02	0.89
1:C:130:LEU:HB2	1:C:132:ILE:HD13	1.55	0.89
1:A:686:ILE:HG22	1:A:704:GLN:NE2	1.88	0.89
1:C:490:GLN:NE2	1:C:494:ASN:HD21	1.69	0.89
1:G:116:TYR:CE1	1:G:151:PRO:HB3	2.08	0.89
1:A:323:ILE:HG23	1:A:326:GLN:HB3	1.53	0.88
1:E:686:ILE:HG22	1:E:704:GLN:NE2	1.88	0.88
1:C:686:ILE:HG22	1:C:704:GLN:NE2	1.88	0.88
1:G:313:TYR:CD2	1:G:360:LEU:HB3	2.09	0.88
1:G:130:LEU:HB2	1:G:132:ILE:HD13	1.55	0.88
2:F:74:GLN:O	2:F:78:LYS:HG3	1.74	0.88
1:C:313:TYR:CD2	1:C:360:LEU:HB3	2.09	0.88
1:C:323:ILE:HG23	1:C:326:GLN:HB3	1.53	0.88
1:A:313:TYR:CD2	1:A:360:LEU:HB3	2.09	0.87
1:A:116:TYR:CE1	1:A:151:PRO:HB3	2.08	0.87
1:E:116:TYR:CE1	1:E:151:PRO:HB3	2.08	0.87
1:E:164:MET:HE3	1:E:256:PHE:HE2	1.38	0.87
2:B:74:GLN:O	2:B:78:LYS:HG3	1.75	0.87
1:E:814:LYS:O	1:E:817:GLN:CG	2.20	0.87
2:F:12:LYS:HB3	2:F:66:PHE:CE2	2.10	0.87
1:G:686:ILE:HG22	1:G:704:GLN:NE2	1.88	0.87
2:H:74:GLN:O	2:H:78:LYS:HG3	1.74	0.87
1:E:313:TYR:CD2	1:E:360:LEU:HB3	2.09	0.87
2:H:12:LYS:HB3	2:H:66:PHE:CE2	2.10	0.87
2:H:85:PHE:HE1	2:H:145:ARG:HG2	1.39	0.87
1:G:164:MET:CE	1:G:256:PHE:HE2	1.87	0.87
1:A:116:TYR:CD1	1:A:151:PRO:HB3	2.10	0.87
1:G:116:TYR:CD1	1:G:151:PRO:HB3	2.10	0.87
2:D:74:GLN:O	2:D:78:LYS:HG3	1.74	0.86
1:E:116:TYR:CD1	1:E:151:PRO:HB3	2.10	0.86
1:G:814:LYS:O	1:G:817:GLN:CG	2.20	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:291:TYR:CD2	1:E:310:PHE:HE1	1.93	0.86
1:E:164:MET:CE	1:E:256:PHE:HE2	1.87	0.86
1:G:232:GLU:O	1:G:236:ASN:HB2	1.76	0.86
1:A:814:LYS:O	1:A:817:GLN:CG	2.21	0.86
1:C:161:TYR:CE1	1:C:165:LEU:HD11	2.11	0.86
1:C:164:MET:CE	1:C:256:PHE:HE2	1.87	0.86
2:F:144:VAL:O	2:F:147:VAL:HG23	1.76	0.86
1:A:234:PHE:HB3	1:A:289:ILE:HG21	1.58	0.86
1:E:547:PHE:HE2	1:E:549:LYS:HB3	1.41	0.86
1:G:161:TYR:CE1	1:G:165:LEU:HD11	2.10	0.86
2:B:144:VAL:O	2:B:147:VAL:HG23	1.76	0.86
1:G:291:TYR:CD2	1:G:310:PHE:HE1	1.93	0.86
1:A:232:GLU:O	1:A:236:ASN:HB2	1.75	0.86
1:A:161:TYR:CE1	1:A:165:LEU:HD11	2.10	0.86
1:C:116:TYR:CD1	1:C:151:PRO:HB3	2.10	0.86
1:C:291:TYR:CD2	1:C:310:PHE:HE1	1.93	0.86
1:C:737:LEU:HD21	1:C:788:ARG:HA	1.58	0.86
1:A:164:MET:CE	1:A:256:PHE:HE2	1.88	0.85
2:B:12:LYS:HB3	2:B:66:PHE:CE2	2.10	0.85
1:G:100:VAL:O	1:G:104:LEU:HG	1.76	0.85
1:C:232:GLU:O	1:C:236:ASN:HB2	1.76	0.85
2:D:12:LYS:HB3	2:D:66:PHE:CE2	2.10	0.85
1:E:161:TYR:CE1	1:E:165:LEU:HD11	2.10	0.85
1:A:291:TYR:CD2	1:A:310:PHE:HE1	1.94	0.85
1:C:814:LYS:O	1:C:817:GLN:CG	2.20	0.85
1:G:391:MET:HG2	1:G:613:LEU:HD21	1.59	0.85
1:C:391:MET:HG2	1:C:613:LEU:HD21	1.59	0.85
1:C:547:PHE:HE1	1:C:549:LYS:HB3	1.41	0.85
1:E:232:GLU:O	1:E:236:ASN:HB2	1.75	0.85
1:G:256:PHE:HB2	1:G:459:SER:OG	1.77	0.85
1:C:85:LYS:HG2	1:C:106:GLU:HB3	1.56	0.85
1:C:256:PHE:HB2	1:C:459:SER:OG	1.77	0.85
1:E:475:ASN:HB2	1:E:592:TYR:HA	1.58	0.85
1:G:605:LEU:HD23	1:G:632:VAL:HG23	1.59	0.85
1:G:502:GLN:HG3	1:G:512:TRP:HE1	1.41	0.85
1:E:100:VAL:O	1:E:104:LEU:HG	1.77	0.85
1:G:547:PHE:HE2	1:G:549:LYS:HB3	1.41	0.85
1:A:475:ASN:HB2	1:A:592:TYR:HA	1.57	0.85
1:A:547:PHE:HE1	1:A:549:LYS:HB3	1.41	0.85
1:E:256:PHE:HB2	1:E:459:SER:OG	1.77	0.85
1:C:100:VAL:O	1:C:104:LEU:HG	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:475:ASN:HB2	1:G:592:TYR:HA	1.57	0.84
2:H:144:VAL:O	2:H:147:VAL:HG23	1.76	0.84
1:C:234:PHE:HB3	1:C:289:ILE:HG21	1.58	0.84
1:E:12:PHE:HB3	1:E:132:ILE:CG2	2.07	0.84
1:E:605:LEU:HD23	1:E:632:VAL:HG23	1.59	0.84
1:A:256:PHE:HB2	1:A:459:SER:OG	1.77	0.84
1:A:605:LEU:HD23	1:A:632:VAL:HG23	1.59	0.84
1:A:737:LEU:HD21	1:A:788:ARG:HA	1.58	0.84
1:C:475:ASN:HB2	1:C:592:TYR:HA	1.57	0.84
1:C:630:ARG:HH22	1:C:657:ARG:HB2	1.41	0.84
1:G:737:LEU:HD21	1:G:788:ARG:HA	1.58	0.84
2:F:122:GLU:O	2:F:126:GLN:HG3	1.78	0.84
1:C:605:LEU:HD23	1:C:632:VAL:HG23	1.59	0.84
2:D:144:VAL:O	2:D:147:VAL:HG23	1.76	0.84
1:E:391:MET:HG2	1:E:613:LEU:HD21	1.59	0.84
1:E:737:LEU:HD21	1:E:788:ARG:HA	1.57	0.84
1:C:502:GLN:HG3	1:C:512:TRP:HE1	1.41	0.84
1:E:234:PHE:HB3	1:E:289:ILE:HG21	1.58	0.84
1:E:630:ARG:HH22	1:E:657:ARG:HB2	1.41	0.84
2:H:122:GLU:O	2:H:126:GLN:HG3	1.78	0.84
1:A:502:GLN:HG3	1:A:512:TRP:HE1	1.41	0.83
2:B:122:GLU:O	2:B:126:GLN:HG3	1.78	0.83
1:E:502:GLN:HG3	1:E:512:TRP:HE1	1.41	0.83
1:E:530:ARG:HD3	1:E:533:ASN:HB2	1.60	0.83
1:G:234:PHE:HB3	1:G:289:ILE:HG21	1.57	0.83
1:G:630:ARG:HH22	1:G:657:ARG:HB2	1.42	0.83
1:A:100:VAL:O	1:A:104:LEU:HG	1.77	0.83
1:A:368:LYS:HZ2	1:A:379:PRO:HG2	1.43	0.83
1:A:630:ARG:HH22	1:A:657:ARG:HB2	1.42	0.83
1:C:530:ARG:HD3	1:C:533:ASN:HB2	1.60	0.83
1:A:743:PRO:CB	1:G:816:GLN:HB3	2.08	0.83
1:E:268:GLU:O	1:E:270:TYR:CE1	2.32	0.83
2:F:44:ASN:HB3	2:F:117:GLU:OE1	1.78	0.83
1:A:391:MET:HG2	1:A:613:LEU:HD21	1.59	0.83
1:G:530:ARG:HD3	1:G:533:ASN:HB2	1.60	0.83
1:E:146:ARG:NH1	1:E:159:THR:HG23	1.94	0.82
1:E:313:TYR:HD2	1:E:360:LEU:HB3	1.44	0.82
1:G:146:ARG:NH1	1:G:159:THR:HG23	1.94	0.82
1:E:812:PHE:HZ	2:F:17:LEU:CD2	1.92	0.82
2:D:122:GLU:O	2:D:126:GLN:HG3	1.78	0.82
2:F:110:HIS:O	2:F:114:THR:OG1	1.98	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:164:MET:HE3	1:A:256:PHE:HE2	1.43	0.82
1:E:268:GLU:HG3	1:E:270:TYR:CZ	2.15	0.82
1:A:268:GLU:O	1:A:270:TYR:CE1	2.33	0.82
1:A:187:THR:HG23	1:A:463:ILE:HG21	1.61	0.82
1:A:530:ARG:HD3	1:A:533:ASN:HB2	1.60	0.82
1:G:268:GLU:O	1:G:270:TYR:CE1	2.32	0.82
1:C:568:LYS:HD3	1:C:584:LEU:HB2	1.62	0.82
2:H:76:ILE:O	2:H:79:ASN:ND2	2.13	0.82
1:G:772:SER:O	1:G:773:LYS:HB2	1.80	0.82
1:C:313:TYR:HD2	1:C:360:LEU:HB3	1.44	0.81
2:D:28:TYR:HB2	2:D:62:LYS:HB2	1.62	0.81
1:E:772:SER:O	1:E:773:LYS:HB2	1.80	0.81
2:B:28:TYR:HB2	2:B:62:LYS:HB2	1.61	0.81
1:C:187:THR:HG23	1:C:463:ILE:HG21	1.61	0.81
1:C:724:ARG:HA	1:C:774:ILE:O	1.80	0.81
2:D:76:ILE:O	2:D:79:ASN:ND2	2.13	0.81
1:E:79:ASN:ND2	1:E:92:LEU:HB3	1.94	0.81
1:E:187:THR:HG23	1:E:463:ILE:HG21	1.61	0.81
2:H:28:TYR:HB2	2:H:62:LYS:HB2	1.62	0.81
1:A:82:LYS:O	1:A:82:LYS:HG2	1.80	0.81
1:A:724:ARG:HA	1:A:774:ILE:O	1.80	0.81
1:C:146:ARG:NH1	1:C:159:THR:HG23	1.95	0.81
1:G:187:THR:HG23	1:G:463:ILE:CG2	2.11	0.81
1:G:187:THR:O	1:G:191:ILE:HG13	1.81	0.81
2:B:103:VAL:HG12	2:B:104:MET:H	1.46	0.81
1:C:268:GLU:O	1:C:270:TYR:CE1	2.32	0.81
1:E:724:ARG:HA	1:E:774:ILE:O	1.79	0.81
1:G:187:THR:HG23	1:G:463:ILE:HG21	1.61	0.81
1:G:724:ARG:HA	1:G:774:ILE:O	1.80	0.81
1:A:630:ARG:HH22	1:A:657:ARG:CB	1.94	0.81
2:D:110:HIS:O	2:D:114:THR:OG1	1.98	0.81
2:H:110:HIS:O	2:H:114:THR:OG1	1.98	0.81
1:C:82:LYS:HG2	1:C:82:LYS:O	1.80	0.81
1:E:12:PHE:CE2	1:E:131:PRO:HD2	2.16	0.81
1:E:342:MET:HE1	1:E:449:ALA:HB3	1.62	0.81
1:G:268:GLU:HG3	1:G:270:TYR:CZ	2.15	0.81
1:A:146:ARG:NH1	1:A:159:THR:HG23	1.95	0.81
1:C:187:THR:O	1:C:191:ILE:HG13	1.81	0.81
2:F:70:LEU:HG	2:F:74:GLN:NE2	1.96	0.81
2:F:76:ILE:O	2:F:79:ASN:ND2	2.13	0.81
1:A:313:TYR:HD2	1:A:360:LEU:HB3	1.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:110:HIS:O	2:B:114:THR:OG1	1.98	0.80
1:C:187:THR:HG23	1:C:463:ILE:CG2	2.11	0.80
2:H:36:ARG:HA	2:H:40:GLN:O	1.82	0.80
2:B:76:ILE:O	2:B:79:ASN:ND2	2.14	0.80
2:B:121:GLU:O	2:B:124:VAL:HG23	1.81	0.80
1:G:36:TRP:HB2	1:G:76:GLN:HB3	1.64	0.80
1:E:187:THR:O	1:E:191:ILE:HG13	1.81	0.80
2:F:121:GLU:O	2:F:124:VAL:HG23	1.81	0.80
1:A:152:HIS:O	1:A:155:ALA:HB3	1.82	0.80
2:B:70:LEU:HG	2:B:74:GLN:NE2	1.96	0.80
1:A:187:THR:O	1:A:191:ILE:HG13	1.80	0.80
1:E:152:HIS:O	1:E:155:ALA:HB3	1.81	0.80
1:A:85:LYS:HG2	1:A:106:GLU:HB3	1.61	0.80
1:C:268:GLU:HG3	1:C:270:TYR:CZ	2.15	0.80
1:G:568:LYS:HD3	1:G:584:LEU:HB2	1.62	0.80
1:A:134:SER:O	1:A:138:ILE:HG12	1.82	0.80
1:E:82:LYS:HG2	1:E:82:LYS:O	1.80	0.80
1:E:630:ARG:HH22	1:E:657:ARG:CB	1.94	0.80
1:E:812:PHE:CZ	2:F:17:LEU:HD21	2.17	0.80
2:F:28:TYR:HB2	2:F:62:LYS:HB2	1.62	0.80
1:G:134:SER:O	1:G:138:ILE:HG12	1.82	0.80
2:H:4:SER:HB3	2:H:7:GLN:HE21	1.47	0.80
1:A:268:GLU:HG3	1:A:270:TYR:CZ	2.16	0.80
1:A:568:LYS:HD3	1:A:584:LEU:HB2	1.62	0.80
1:C:125:ASN:HB3	1:C:687:PRO:HD3	1.64	0.80
2:D:4:SER:HB3	2:D:7:GLN:HE21	1.47	0.80
1:G:152:HIS:O	1:G:155:ALA:HB3	1.81	0.80
1:A:145:LYS:HB3	1:A:148:GLU:HG3	1.64	0.80
2:D:107:GLU:OE1	2:D:107:GLU:HA	1.82	0.80
1:G:313:TYR:HD2	1:G:360:LEU:HB3	1.44	0.80
2:B:36:ARG:HA	2:B:40:GLN:O	1.80	0.80
1:C:134:SER:O	1:C:138:ILE:HG12	1.82	0.80
1:C:772:SER:O	1:C:773:LYS:HB2	1.81	0.80
2:D:36:ARG:HA	2:D:40:GLN:O	1.82	0.80
1:E:187:THR:HG23	1:E:463:ILE:CG2	2.11	0.80
1:G:82:LYS:O	1:G:82:LYS:HG2	1.80	0.80
1:C:630:ARG:HH22	1:C:657:ARG:CB	1.94	0.79
2:F:36:ARG:HA	2:F:40:GLN:O	1.82	0.79
1:G:661:GLN:O	1:G:665:GLU:HB2	1.82	0.79
2:H:103:VAL:HG12	2:H:104:MET:H	1.46	0.79
1:A:187:THR:HG23	1:A:463:ILE:CG2	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:36:TRP:HB2	1:C:76:GLN:HB3	1.64	0.79
2:F:103:VAL:HG12	2:F:104:MET:H	1.46	0.79
2:H:44:ASN:HB2	2:H:117:GLU:OE1	1.82	0.79
2:B:107:GLU:HA	2:B:107:GLU:OE1	1.82	0.79
1:C:527:LEU:O	1:C:527:LEU:HD23	1.83	0.79
1:E:568:LYS:HD3	1:E:584:LEU:HB2	1.62	0.79
2:H:121:GLU:O	2:H:124:VAL:HG23	1.81	0.79
2:B:4:SER:HB3	2:B:7:GLN:HE21	1.47	0.79
2:D:121:GLU:O	2:D:124:VAL:HG23	1.81	0.79
1:E:36:TRP:HB2	1:E:76:GLN:HB3	1.64	0.79
1:G:541:LEU:HD23	1:G:601:ASN:ND2	1.98	0.79
1:A:125:ASN:HB3	1:A:687:PRO:HD3	1.64	0.79
1:A:527:LEU:O	1:A:527:LEU:HD23	1.83	0.79
1:C:164:MET:CE	1:C:256:PHE:CE2	2.66	0.79
1:C:541:LEU:HD23	1:C:601:ASN:ND2	1.98	0.79
1:G:630:ARG:HH22	1:G:657:ARG:CB	1.94	0.79
1:C:152:HIS:O	1:C:155:ALA:HB3	1.81	0.79
1:C:342:MET:HE1	1:C:449:ALA:HB3	1.65	0.79
1:C:543:GLU:HA	1:C:546:TRP:CD1	2.17	0.79
2:D:70:LEU:HG	2:D:74:GLN:NE2	1.96	0.79
2:D:103:VAL:HG12	2:D:104:MET:H	1.46	0.79
2:H:70:LEU:HG	2:H:74:GLN:NE2	1.97	0.79
1:A:123:VAL:O	1:A:123:VAL:HG12	1.83	0.79
2:B:85:PHE:HE1	2:B:145:ARG:CG	1.95	0.79
1:E:125:ASN:HB3	1:E:687:PRO:HD3	1.64	0.79
1:G:145:LYS:HB3	1:G:148:GLU:HG3	1.64	0.79
1:G:164:MET:CE	1:G:256:PHE:CE2	2.66	0.79
1:C:13:LEU:HD21	1:C:132:ILE:HB	1.64	0.79
1:E:134:SER:O	1:E:138:ILE:HG12	1.82	0.79
1:E:381:ASN:O	1:E:385:GLN:HG3	1.83	0.79
1:G:381:ASN:O	1:G:385:GLN:HG3	1.83	0.79
1:E:145:LYS:HB3	1:E:148:GLU:HG3	1.64	0.78
1:G:164:MET:HE3	1:G:256:PHE:HE2	1.46	0.78
1:G:753:CYS:HG	1:G:774:ILE:HD11	1.49	0.78
1:A:661:GLN:O	1:A:665:GLU:HB2	1.82	0.78
1:C:661:GLN:O	1:C:665:GLU:HB2	1.82	0.78
1:E:76:GLN:OE1	1:E:96:ASN:HB3	1.83	0.78
1:E:352:ILE:CG2	1:E:438:LEU:HD11	2.14	0.78
1:G:125:ASN:HB3	1:G:687:PRO:HD3	1.64	0.78
1:A:517:PHE:HD2	1:A:712:GLU:HB3	1.49	0.78
2:B:140:TYR:O	2:B:144:VAL:HG23	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:812:PHE:CZ	2:F:17:LEU:CD2	2.67	0.78
2:F:4:SER:HB3	2:F:7:GLN:HE21	1.47	0.78
1:G:527:LEU:HD23	1:G:527:LEU:O	1.83	0.78
1:C:145:LYS:HB3	1:C:148:GLU:HG3	1.64	0.78
1:E:368:LYS:HZ2	1:E:379:PRO:HG2	1.46	0.78
1:C:381:ASN:O	1:C:385:GLN:HG3	1.83	0.78
2:D:140:TYR:O	2:D:144:VAL:HG23	1.83	0.78
1:E:164:MET:CE	1:E:256:PHE:CE2	2.66	0.78
1:C:352:ILE:CG2	1:C:438:LEU:HD11	2.14	0.78
1:A:145:LYS:HG3	1:A:146:ARG:NE	1.99	0.78
1:E:527:LEU:HD23	1:E:527:LEU:O	1.83	0.78
1:G:145:LYS:HG3	1:G:146:ARG:NE	1.99	0.78
1:A:36:TRP:HB2	1:A:76:GLN:HB3	1.64	0.78
1:A:772:SER:O	1:A:773:LYS:HB2	1.81	0.78
1:A:381:ASN:O	1:A:385:GLN:HG3	1.83	0.78
1:C:3:GLN:N	1:C:18:ASN:HD21	1.82	0.78
1:C:268:GLU:CG	1:C:270:TYR:OH	2.28	0.78
2:D:140:TYR:CD1	2:D:141:GLU:HG2	2.19	0.78
1:E:541:LEU:HD23	1:E:601:ASN:ND2	1.98	0.78
1:A:164:MET:CE	1:A:256:PHE:CE2	2.67	0.78
1:E:661:GLN:O	1:E:665:GLU:HB2	1.82	0.78
1:A:352:ILE:CG2	1:A:438:LEU:HD11	2.13	0.77
1:C:554:SER:O	1:C:557:GLU:HG2	1.84	0.77
1:E:193:TYR:CE1	1:E:197:VAL:HG21	2.19	0.77
2:F:107:GLU:OE1	2:F:107:GLU:HA	1.82	0.77
2:H:140:TYR:CD1	2:H:141:GLU:HG2	2.19	0.77
1:E:533:ASN:HB3	1:E:534:PRO:HD2	1.67	0.77
1:G:123:VAL:O	1:G:123:VAL:HG12	1.83	0.77
1:E:123:VAL:O	1:E:123:VAL:HG12	1.83	0.77
2:F:140:TYR:O	2:F:144:VAL:HG23	1.83	0.77
1:G:148:GLU:O	1:G:149:MET:HG2	1.85	0.77
1:G:361:GLN:OE1	1:G:386:LYS:HB3	1.85	0.77
1:A:554:SER:O	1:A:557:GLU:HG2	1.84	0.77
1:C:193:TYR:CE1	1:C:197:VAL:HG21	2.19	0.77
2:D:89:VAL:O	2:D:92:LEU:N	2.18	0.77
2:F:89:VAL:O	2:F:92:LEU:N	2.18	0.77
2:H:140:TYR:O	2:H:144:VAL:HG23	1.83	0.77
1:G:135:GLU:H	1:G:213:PRO:HD3	1.50	0.77
2:H:89:VAL:O	2:H:92:LEU:N	2.18	0.77
1:A:511:GLU:OE1	2:H:145:ARG:HD3	1.85	0.77
1:C:76:GLN:OE1	1:C:96:ASN:HB3	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:148:GLU:O	1:C:149:MET:HG2	1.85	0.77
1:E:361:GLN:OE1	1:E:386:LYS:HB3	1.85	0.77
1:E:521:LEU:O	1:E:525:ILE:HG13	1.85	0.77
2:F:140:TYR:CD1	2:F:141:GLU:HG2	2.19	0.77
1:G:193:TYR:CE1	1:G:197:VAL:HG21	2.19	0.77
1:G:554:SER:O	1:G:557:GLU:HG2	1.84	0.77
1:C:123:VAL:HG12	1:C:123:VAL:O	1.83	0.77
1:C:145:LYS:HG3	1:C:146:ARG:NE	1.99	0.77
1:A:193:TYR:CE1	1:A:197:VAL:HG21	2.20	0.77
1:A:361:GLN:OE1	1:A:386:LYS:HB3	1.85	0.77
1:A:543:GLU:HA	1:A:546:TRP:CD1	2.17	0.77
2:B:140:TYR:CD1	2:B:141:GLU:HG2	2.20	0.77
1:G:352:ILE:CG2	1:G:438:LEU:HD11	2.14	0.77
2:H:107:GLU:OE1	2:H:107:GLU:HA	1.82	0.77
1:E:3:GLN:N	1:E:18:ASN:HD21	1.82	0.76
1:G:3:GLN:N	1:G:18:ASN:HD21	1.82	0.76
1:G:705:LEU:O	1:G:710:VAL:HG23	1.86	0.76
1:A:745:GLY:HA3	1:G:816:GLN:NE2	1.99	0.76
1:G:800:GLN:O	1:G:804:ARG:HG3	1.86	0.76
1:A:533:ASN:HB3	1:A:534:PRO:HD2	1.67	0.76
1:C:298:SER:N	1:C:301:MET:HG2	1.99	0.76
1:C:361:GLN:OE1	1:C:386:LYS:HB3	1.85	0.76
1:E:554:SER:O	1:E:557:GLU:HG2	1.84	0.76
1:A:521:LEU:O	1:A:525:ILE:HG13	1.85	0.76
1:C:800:GLN:O	1:C:804:ARG:HG3	1.86	0.76
1:E:145:LYS:HG3	1:E:146:ARG:NE	1.99	0.76
1:G:517:PHE:HD2	1:G:712:GLU:HB3	1.49	0.76
2:F:84:CYS:SG	2:F:86:GLU:HB2	2.25	0.76
1:A:3:GLN:N	1:A:18:ASN:HD21	1.82	0.76
1:C:607:ASP:HA	1:C:610:THR:HB	1.68	0.76
1:E:517:PHE:HD2	1:E:712:GLU:HB3	1.49	0.76
1:G:521:LEU:O	1:G:525:ILE:HG13	1.85	0.76
1:C:557:GLU:HA	1:C:560:ILE:HD12	1.68	0.76
1:E:148:GLU:O	1:E:149:MET:HG2	1.85	0.76
1:G:753:CYS:SG	1:G:774:ILE:CD1	2.74	0.76
1:E:135:GLU:H	1:E:213:PRO:HD3	1.50	0.76
1:C:135:GLU:H	1:C:213:PRO:HD3	1.50	0.76
1:C:517:PHE:HD2	1:C:712:GLU:HB3	1.49	0.76
1:C:521:LEU:O	1:C:525:ILE:HG13	1.85	0.76
2:H:85:PHE:CE1	2:H:145:ARG:HG2	2.21	0.76
1:C:533:ASN:HB3	1:C:534:PRO:HD2	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:705:LEU:O	1:C:710:VAL:HG23	1.86	0.75
2:H:64:LEU:HD23	2:H:68:GLN:HB2	1.68	0.75
1:A:800:GLN:O	1:A:804:ARG:HG3	1.86	0.75
1:C:61:LEU:HD12	1:C:64:ASN:H	1.52	0.75
1:E:368:LYS:HB2	1:E:377:SER:OG	1.87	0.75
2:B:89:VAL:O	2:B:92:LEU:N	2.18	0.75
1:E:607:ASP:HA	1:E:610:THR:HB	1.69	0.75
1:E:766:LEU:O	1:E:777:ARG:HB2	1.87	0.75
1:E:800:GLN:O	1:E:804:ARG:HG3	1.86	0.75
1:A:705:LEU:O	1:A:710:VAL:HG23	1.86	0.75
1:C:269:THR:HB	1:C:443:LEU:HD13	1.69	0.75
1:E:185:GLU:O	1:E:189:LYS:HG2	1.87	0.75
1:E:705:LEU:O	1:E:710:VAL:HG23	1.85	0.75
1:G:557:GLU:HA	1:G:560:ILE:HD12	1.68	0.75
1:C:164:MET:HE3	1:C:256:PHE:HE2	1.50	0.75
1:G:61:LEU:HD12	1:G:64:ASN:H	1.52	0.75
1:G:368:LYS:HB2	1:G:377:SER:OG	1.86	0.75
1:G:533:ASN:HB3	1:G:534:PRO:HD2	1.67	0.75
1:A:185:GLU:O	1:A:189:LYS:HG2	1.87	0.75
1:A:342:MET:HE1	1:A:449:ALA:HB3	1.67	0.75
1:A:557:GLU:HA	1:A:560:ILE:HD12	1.68	0.75
1:A:766:LEU:O	1:A:777:ARG:HB2	1.86	0.75
1:C:753:CYS:SG	1:C:774:ILE:CD1	2.74	0.75
1:G:766:LEU:O	1:G:777:ARG:HB2	1.86	0.75
1:A:368:LYS:HB2	1:A:377:SER:OG	1.87	0.75
1:E:269:THR:HB	1:E:443:LEU:HD13	1.69	0.75
1:G:185:GLU:O	1:G:189:LYS:HG2	1.87	0.75
1:A:61:LEU:HD12	1:A:64:ASN:H	1.51	0.74
1:A:135:GLU:H	1:A:213:PRO:HD3	1.50	0.74
1:G:543:GLU:HA	1:G:546:TRP:CD1	2.17	0.74
1:A:268:GLU:HG2	1:A:270:TYR:HH	1.51	0.74
1:C:185:GLU:O	1:C:189:LYS:HG2	1.87	0.74
1:C:368:LYS:HB2	1:C:377:SER:OG	1.87	0.74
2:D:64:LEU:HD23	2:D:68:GLN:HB2	1.68	0.74
1:G:628:VAL:HG23	1:G:631:ILE:HG12	1.69	0.74
2:F:64:LEU:HD23	2:F:68:GLN:HB2	1.68	0.74
1:C:62:GLN:O	1:C:62:GLN:HG3	1.88	0.74
2:D:9:ALA:HA	2:D:12:LYS:HE3	1.69	0.74
1:A:269:THR:HB	1:A:443:LEU:HD13	1.68	0.74
1:A:148:GLU:O	1:A:149:MET:HG2	1.85	0.74
1:G:607:ASP:HA	1:G:610:THR:HB	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:269:THR:HG1	1:A:439:PHE:HE2	1.34	0.74
1:E:812:PHE:HZ	2:F:17:LEU:HD23	1.52	0.74
1:E:557:GLU:HA	1:E:560:ILE:HD12	1.67	0.74
1:G:269:THR:HB	1:G:443:LEU:HD13	1.69	0.74
1:A:62:GLN:HG3	1:A:62:GLN:O	1.88	0.74
1:A:517:PHE:CD2	1:A:712:GLU:HB3	2.23	0.74
2:B:9:ALA:HA	2:B:12:LYS:HE3	1.69	0.74
1:C:766:LEU:O	1:C:777:ARG:HB2	1.86	0.74
1:E:140:MET:HB3	1:E:149:MET:HE3	1.70	0.74
1:E:753:CYS:SG	1:E:774:ILE:CD1	2.74	0.74
1:G:140:MET:HB3	1:G:149:MET:HE3	1.70	0.74
2:H:113:VAL:HG23	2:H:124:VAL:HG11	1.69	0.74
1:C:628:VAL:HG23	1:C:631:ILE:HG12	1.69	0.74
1:E:269:THR:HG1	1:E:439:PHE:HE2	1.35	0.74
1:E:305:LEU:HD12	1:E:307:LEU:HD21	1.70	0.74
1:G:405:PRO:O	1:G:407:ILE:HD12	1.88	0.73
1:A:537:VAL:HG22	1:A:559:LEU:HD21	1.71	0.73
1:A:628:VAL:HG23	1:A:631:ILE:HG12	1.70	0.73
1:A:753:CYS:SG	1:A:774:ILE:CD1	2.75	0.73
2:B:28:TYR:CE2	2:B:54:PRO:CG	2.69	0.73
2:B:113:VAL:HG23	2:B:124:VAL:HG11	1.70	0.73
1:C:472:PHE:N	1:C:472:PHE:CD1	2.56	0.73
1:C:537:VAL:HA	1:C:559:LEU:HD11	1.70	0.73
2:D:140:TYR:CE1	2:D:141:GLU:HG2	2.23	0.73
1:G:367:PHE:HB3	1:G:376:ALA:HB1	1.70	0.73
1:A:485:THR:HG23	1:A:667:LEU:HD11	1.70	0.73
1:C:405:PRO:O	1:C:407:ILE:HD12	1.88	0.73
1:G:79:ASN:HD21	1:G:94:CYS:H	1.37	0.73
1:G:472:PHE:N	1:G:472:PHE:HD1	1.86	0.73
1:G:517:PHE:CD2	1:G:712:GLU:HB3	2.23	0.73
1:A:541:LEU:HD23	1:A:601:ASN:ND2	2.02	0.73
1:A:607:ASP:HA	1:A:610:THR:HB	1.68	0.73
1:C:517:PHE:CD2	1:C:712:GLU:HB3	2.23	0.73
1:E:367:PHE:HB3	1:E:376:ALA:HB1	1.70	0.73
1:A:367:PHE:HB3	1:A:376:ALA:HB1	1.71	0.73
1:A:437:ARG:HE	1:A:625:TRP:HA	1.54	0.73
1:C:537:VAL:HG22	1:C:559:LEU:HD21	1.71	0.73
1:E:543:GLU:HA	1:E:546:TRP:CD1	2.18	0.73
2:D:113:VAL:HG23	2:D:124:VAL:HG11	1.69	0.73
1:G:485:THR:HG23	1:G:667:LEU:HD11	1.70	0.73
2:H:9:ALA:HA	2:H:12:LYS:HE3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:537:VAL:HA	1:A:559:LEU:HD11	1.70	0.73
1:C:368:LYS:NZ	1:C:379:PRO:HG2	2.03	0.73
1:E:61:LEU:HD12	1:E:64:ASN:H	1.52	0.73
1:E:537:VAL:HA	1:E:559:LEU:HD11	1.71	0.73
1:E:628:VAL:HG23	1:E:631:ILE:HG12	1.69	0.73
2:F:113:VAL:HG23	2:F:124:VAL:HG11	1.69	0.73
1:G:114:TYR:HE2	1:G:153:ILE:HB	1.54	0.73
1:G:766:LEU:HB3	1:G:780:VAL:HG21	1.71	0.73
1:A:472:PHE:CD1	1:A:472:PHE:N	2.57	0.73
2:B:64:LEU:HD23	2:B:68:GLN:HB2	1.69	0.73
2:B:140:TYR:CE1	2:B:141:GLU:HG2	2.23	0.73
1:C:140:MET:HB3	1:C:149:MET:HE3	1.70	0.73
1:C:367:PHE:HB3	1:C:376:ALA:HB1	1.70	0.73
1:C:489:LEU:HD13	1:C:492:LEU:HD23	1.71	0.73
1:E:44:PHE:CD2	1:E:101:LEU:HD22	2.23	0.73
1:E:405:PRO:O	1:E:407:ILE:HD12	1.88	0.73
1:C:735:GLU:CG	1:C:756:MET:HE1	2.19	0.73
1:E:437:ARG:HE	1:E:625:TRP:HA	1.54	0.73
1:E:489:LEU:HD13	1:E:492:LEU:HD23	1.71	0.73
1:E:517:PHE:CD2	1:E:712:GLU:HB3	2.23	0.73
1:C:153:ILE:HA	1:C:156:ILE:HD12	1.71	0.73
1:C:686:ILE:HD13	1:C:687:PRO:CD	2.17	0.73
1:C:766:LEU:HB3	1:C:780:VAL:HG21	1.71	0.73
1:E:485:THR:HG23	1:E:667:LEU:HD11	1.69	0.73
2:F:140:TYR:CE1	2:F:141:GLU:HG2	2.23	0.73
2:F:9:ALA:HA	2:F:12:LYS:HE3	1.69	0.72
1:G:62:GLN:HG3	1:G:62:GLN:O	1.88	0.72
1:G:342:MET:HE1	1:G:449:ALA:HB3	1.71	0.72
1:G:489:LEU:HD13	1:G:492:LEU:HD23	1.71	0.72
1:A:305:LEU:HD12	1:A:307:LEU:HD21	1.70	0.72
1:G:153:ILE:HA	1:G:156:ILE:HD12	1.71	0.72
1:A:368:LYS:NZ	1:A:379:PRO:HG2	2.03	0.72
1:E:44:PHE:HD2	1:E:101:LEU:HD22	1.53	0.72
1:E:397:ASP:O	1:E:401:SER:OG	2.07	0.72
1:E:537:VAL:HG22	1:E:559:LEU:HD21	1.71	0.72
2:H:140:TYR:CE1	2:H:141:GLU:HG2	2.23	0.72
1:E:62:GLN:HG3	1:E:62:GLN:O	1.88	0.72
1:E:610:THR:HG21	1:E:631:ILE:HG13	1.72	0.72
1:G:368:LYS:NZ	1:G:379:PRO:HG2	2.03	0.72
1:G:397:ASP:O	1:G:401:SER:OG	2.07	0.72
1:C:368:LYS:HZ2	1:C:379:PRO:HG2	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:305:LEU:HD12	1:G:307:LEU:HD21	1.70	0.72
1:G:537:VAL:HG22	1:G:559:LEU:HD21	1.71	0.72
1:A:140:MET:HB3	1:A:149:MET:HE3	1.70	0.72
1:A:582:CYS:SG	1:A:591:THR:HG23	2.30	0.72
1:C:378:MET:HE3	1:C:380:ASP:O	1.90	0.72
1:C:485:THR:HG23	1:C:667:LEU:HD11	1.70	0.72
2:D:131:HIS:HB3	2:D:138:ILE:HG23	1.72	0.72
1:E:582:CYS:SG	1:E:591:THR:HG23	2.29	0.72
1:C:305:LEU:HD12	1:C:307:LEU:HD21	1.70	0.72
1:C:437:ARG:HE	1:C:625:TRP:HA	1.55	0.72
1:C:582:CYS:SG	1:C:591:THR:HG23	2.30	0.72
1:C:657:ARG:HB2	1:C:657:ARG:HH11	1.55	0.72
1:G:553:THR:O	1:G:556:VAL:HG23	1.90	0.72
1:A:405:PRO:O	1:A:407:ILE:HD12	1.89	0.72
1:A:747:MET:CE	1:G:812:PHE:CZ	2.73	0.72
1:A:766:LEU:HB3	1:A:780:VAL:HG21	1.71	0.72
1:E:114:TYR:HE2	1:E:153:ILE:HB	1.54	0.72
1:E:368:LYS:NZ	1:E:379:PRO:HG2	2.03	0.72
1:G:298:SER:N	1:G:301:MET:HG2	1.99	0.72
1:A:114:TYR:HE2	1:A:153:ILE:HB	1.54	0.72
1:A:298:SER:N	1:A:301:MET:HG2	2.01	0.72
1:A:472:PHE:N	1:A:472:PHE:HD1	1.87	0.72
1:C:298:SER:O	1:C:302:ARG:HB3	1.90	0.72
1:C:397:ASP:O	1:C:401:SER:OG	2.07	0.72
1:E:553:THR:O	1:E:556:VAL:HG23	1.90	0.72
1:A:397:ASP:O	1:A:401:SER:OG	2.07	0.72
1:C:477:PHE:O	1:C:480:LEU:HB3	1.90	0.72
1:E:766:LEU:HB3	1:E:780:VAL:HG21	1.72	0.72
1:G:582:CYS:SG	1:G:591:THR:HG23	2.29	0.72
1:G:802:GLN:CG	2:H:88:TYR:OH	2.38	0.72
1:A:298:SER:O	1:A:302:ARG:HB3	1.90	0.71
2:D:90:GLU:HG2	2:D:91:GLY:N	2.05	0.71
1:E:298:SER:O	1:E:302:ARG:HB3	1.89	0.71
1:E:472:PHE:N	1:E:472:PHE:CD1	2.57	0.71
1:A:400:ARG:HG2	1:A:404:THR:OG1	1.91	0.71
1:C:628:VAL:HG23	1:C:631:ILE:CG1	2.20	0.71
1:E:349:GLN:O	1:E:352:ILE:HG13	1.90	0.71
2:F:140:TYR:C	2:F:142:GLU:H	1.94	0.71
1:G:298:SER:O	1:G:302:ARG:HB3	1.89	0.71
1:G:327:GLN:O	1:G:330:GLU:HG2	1.91	0.71
1:G:477:PHE:O	1:G:480:LEU:HB3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:700:LEU:O	1:A:704:GLN:HG3	1.91	0.71
1:G:657:ARG:HB2	1:G:657:ARG:HH11	1.55	0.71
1:A:327:GLN:O	1:A:330:GLU:HG2	1.91	0.71
2:B:43:THR:HG23	2:B:46:GLU:OE2	1.90	0.71
1:C:327:GLN:O	1:C:330:GLU:HG2	1.91	0.71
1:C:349:GLN:O	1:C:352:ILE:HG13	1.90	0.71
1:E:472:PHE:N	1:E:472:PHE:HD1	1.87	0.71
1:E:686:ILE:HD13	1:E:687:PRO:CD	2.17	0.71
1:G:610:THR:HG21	1:G:631:ILE:HG13	1.71	0.71
1:A:361:GLN:HB3	1:A:387:VAL:HG23	1.73	0.71
1:E:153:ILE:HA	1:E:156:ILE:HD12	1.70	0.71
1:E:464:LEU:HG	1:E:466:ILE:HG23	1.73	0.71
1:C:816:GLN:NE2	2:D:17:LEU:HD21	2.06	0.71
1:E:700:LEU:O	1:E:704:GLN:HG3	1.91	0.71
1:E:805:GLY:O	1:E:809:ARG:CD	2.39	0.71
2:F:28:TYR:CE2	2:F:54:PRO:CG	2.73	0.71
1:G:537:VAL:HA	1:G:559:LEU:HD11	1.70	0.71
1:G:805:GLY:O	1:G:809:ARG:CD	2.39	0.71
1:A:553:THR:O	1:A:556:VAL:HG23	1.90	0.71
1:E:268:GLU:CG	1:E:270:TYR:OH	2.28	0.71
1:E:477:PHE:O	1:E:480:LEU:HB3	1.90	0.71
1:E:802:GLN:CG	2:F:88:TYR:OH	2.38	0.71
1:A:153:ILE:HA	1:A:156:ILE:HD12	1.71	0.71
1:A:477:PHE:O	1:A:480:LEU:HB3	1.90	0.71
1:A:489:LEU:HD13	1:A:492:LEU:HD23	1.71	0.71
1:C:393:ILE:HG23	1:C:616:SER:HB2	1.72	0.71
1:G:400:ARG:HG2	1:G:404:THR:OG1	1.91	0.71
2:B:85:PHE:HE1	2:B:145:ARG:HG3	1.56	0.71
2:D:113:VAL:CG2	2:D:124:VAL:HG11	2.21	0.71
1:E:628:VAL:HG23	1:E:631:ILE:CG1	2.20	0.71
1:E:802:GLN:HG3	2:F:88:TYR:CZ	2.26	0.71
1:G:268:GLU:OE2	1:G:666:GLN:NE2	2.24	0.71
1:G:628:VAL:HG23	1:G:631:ILE:CG1	2.20	0.71
1:G:805:GLY:HA3	2:H:41:ASN:OD1	1.91	0.71
2:H:90:GLU:HG2	2:H:91:GLY:N	2.05	0.71
1:A:628:VAL:HG23	1:A:631:ILE:CG1	2.21	0.71
1:A:747:MET:HG3	1:G:812:PHE:HE2	1.51	0.71
1:C:510:ILE:HD12	1:C:512:TRP:HB2	1.73	0.71
1:C:553:THR:O	1:C:556:VAL:HG23	1.90	0.71
1:C:700:LEU:O	1:C:704:GLN:HG3	1.91	0.71
1:G:268:GLU:HG2	1:G:270:TYR:HH	1.52	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:237:ALA:HA	1:C:288:HIS:CD2	2.26	0.70
1:C:805:GLY:O	1:C:809:ARG:CD	2.39	0.70
2:D:28:TYR:CE2	2:D:54:PRO:CG	2.73	0.70
1:G:165:LEU:HD21	1:G:260:GLY:HA3	1.73	0.70
1:G:349:GLN:O	1:G:352:ILE:HG13	1.90	0.70
2:B:131:HIS:HB3	2:B:138:ILE:HG23	1.72	0.70
1:C:400:ARG:HG2	1:C:404:THR:OG1	1.91	0.70
1:E:193:TYR:CZ	1:E:197:VAL:HG21	2.27	0.70
1:E:328:ASP:CA	1:E:331:MET:HB2	2.21	0.70
1:E:400:ARG:HG2	1:E:404:THR:OG1	1.91	0.70
1:G:193:TYR:CZ	1:G:197:VAL:HG21	2.27	0.70
1:G:361:GLN:HB3	1:G:387:VAL:HG23	1.72	0.70
1:A:805:GLY:O	1:A:809:ARG:CD	2.39	0.70
1:C:269:THR:HG1	1:C:439:PHE:HE2	1.39	0.70
1:E:510:ILE:HD12	1:E:512:TRP:HB2	1.73	0.70
1:G:269:THR:HG1	1:G:439:PHE:HE2	1.36	0.70
1:G:393:ILE:HG23	1:G:616:SER:HB2	1.72	0.70
2:H:28:TYR:CE2	2:H:54:PRO:CG	2.73	0.70
1:C:165:LEU:HD21	1:C:260:GLY:HA3	1.73	0.70
1:C:472:PHE:N	1:C:472:PHE:HD1	1.86	0.70
1:C:610:THR:HG21	1:C:631:ILE:HG13	1.72	0.70
1:C:802:GLN:CG	2:D:88:TYR:OH	2.38	0.70
1:E:268:GLU:OE2	1:E:666:GLN:NE2	2.24	0.70
2:H:140:TYR:C	2:H:142:GLU:H	1.94	0.70
1:A:378:MET:HE3	1:A:380:ASP:O	1.90	0.70
1:A:510:ILE:HD12	1:A:512:TRP:HB2	1.73	0.70
2:B:140:TYR:C	2:B:142:GLU:H	1.94	0.70
1:E:378:MET:HE3	1:E:380:ASP:O	1.90	0.70
1:E:498:PHE:CD1	1:E:716:ILE:HD11	2.27	0.70
1:E:657:ARG:HB2	1:E:657:ARG:HH11	1.55	0.70
1:G:510:ILE:HD12	1:G:512:TRP:HB2	1.73	0.70
1:G:700:LEU:O	1:G:704:GLN:HG3	1.91	0.70
1:G:704:GLN:O	1:G:708:ASN:HB2	1.92	0.70
1:A:349:GLN:O	1:A:352:ILE:HG13	1.90	0.70
1:A:657:ARG:HB2	1:A:657:ARG:HH11	1.55	0.70
1:C:704:GLN:O	1:C:708:ASN:HB2	1.92	0.70
1:E:327:GLN:O	1:E:330:GLU:HG2	1.91	0.70
1:G:44:PHE:HD2	1:G:101:LEU:HD22	1.55	0.70
1:G:464:LEU:HG	1:G:466:ILE:HG23	1.73	0.70
2:D:35:MET:HG2	2:D:69:PHE:HZ	1.57	0.70
1:E:361:GLN:HB3	1:E:387:VAL:HG23	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:378:MET:HE3	1:G:380:ASP:O	1.90	0.70
1:G:802:GLN:HG3	2:H:88:TYR:CZ	2.26	0.70
1:A:704:GLN:O	1:A:708:ASN:HB2	1.91	0.70
1:E:124:ILE:H	1:E:124:ILE:HD12	1.57	0.70
1:E:393:ILE:HG23	1:E:616:SER:HB2	1.73	0.70
2:F:131:HIS:HB3	2:F:138:ILE:HG23	1.72	0.70
1:A:464:LEU:HG	1:A:466:ILE:HG23	1.73	0.70
1:A:528:ILE:HD12	1:A:537:VAL:HB	1.74	0.70
1:C:193:TYR:CZ	1:C:197:VAL:HG21	2.27	0.70
1:C:254:ILE:O	1:C:460:PHE:HA	1.92	0.70
1:E:298:SER:N	1:E:301:MET:HG2	2.01	0.70
1:E:405:PRO:HG3	1:E:418:GLN:NE2	2.07	0.70
2:F:90:GLU:HG2	2:F:91:GLY:N	2.05	0.70
1:A:254:ILE:O	1:A:460:PHE:HA	1.92	0.70
1:A:802:GLN:CG	2:B:88:TYR:OH	2.38	0.70
2:B:51:LEU:HB3	2:B:54:PRO:CD	2.22	0.70
2:D:93:ARG:O	2:D:96:ASP:HB2	1.92	0.70
1:E:215:PHE:CD1	1:E:216:SER:N	2.60	0.70
1:G:328:ASP:CA	1:G:331:MET:HB2	2.21	0.70
1:G:528:ILE:HD12	1:G:537:VAL:HB	1.74	0.70
1:A:237:ALA:HA	1:A:288:HIS:CD2	2.26	0.69
2:B:90:GLU:HG2	2:B:91:GLY:N	2.05	0.69
2:B:113:VAL:CG2	2:B:124:VAL:HG11	2.22	0.69
1:C:164:MET:SD	1:C:256:PHE:CD2	2.85	0.69
1:C:464:LEU:HG	1:C:466:ILE:HG23	1.73	0.69
1:E:165:LEU:HD21	1:E:260:GLY:HA3	1.73	0.69
1:E:254:ILE:O	1:E:460:PHE:HA	1.92	0.69
1:G:731:ARG:HD2	1:G:731:ARG:O	1.92	0.69
1:A:802:GLN:HG3	2:B:88:TYR:CZ	2.26	0.69
1:C:114:TYR:HE2	1:C:153:ILE:HB	1.53	0.69
2:D:140:TYR:C	2:D:142:GLU:H	1.94	0.69
1:E:158:ASP:OD1	1:E:193:TYR:OH	2.10	0.69
2:F:43:THR:HG23	2:F:46:GLU:OE2	1.92	0.69
1:G:237:ALA:HA	1:G:288:HIS:CD2	2.27	0.69
2:H:44:ASN:HB3	2:H:117:GLU:OE1	1.90	0.69
2:H:70:LEU:O	2:H:74:GLN:NE2	2.26	0.69
2:H:131:HIS:HB3	2:H:138:ILE:HG23	1.72	0.69
1:A:164:MET:SD	1:A:256:PHE:CD2	2.85	0.69
1:A:610:THR:HG21	1:A:631:ILE:HG13	1.72	0.69
1:C:49:ILE:HG12	1:C:57:VAL:HG11	1.74	0.69
2:F:113:VAL:CG2	2:F:124:VAL:HG11	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:405:PRO:HG3	1:G:418:GLN:NE2	2.07	0.69
1:A:393:ILE:HG23	1:A:616:SER:HB2	1.73	0.69
1:A:528:ILE:HG13	1:A:528:ILE:O	1.92	0.69
1:C:528:ILE:HD12	1:C:537:VAL:HB	1.74	0.69
1:E:704:GLN:O	1:E:708:ASN:HB2	1.91	0.69
1:E:731:ARG:O	1:E:731:ARG:HD2	1.92	0.69
1:E:815:ARG:HA	1:E:818:GLN:OE1	1.93	0.69
1:G:498:PHE:CD1	1:G:716:ILE:HD11	2.27	0.69
1:G:815:ARG:HA	1:G:818:GLN:OE1	1.92	0.69
2:H:113:VAL:CG2	2:H:124:VAL:HG11	2.21	0.69
1:C:77:LYS:HD2	1:C:96:ASN:HD21	1.58	0.69
1:C:362:LEU:CD2	1:C:387:VAL:HG11	2.23	0.69
2:H:43:THR:HG23	2:H:46:GLU:OE2	1.93	0.69
2:H:93:ARG:O	2:H:96:ASP:HB2	1.92	0.69
1:A:164:MET:SD	1:A:256:PHE:HD2	2.16	0.69
1:A:290:PHE:O	1:A:294:ILE:HG13	1.93	0.69
1:A:731:ARG:HD2	1:A:731:ARG:O	1.92	0.69
1:C:619:LYS:HD3	1:C:623:ASP:OD2	1.93	0.69
1:E:290:PHE:O	1:E:294:ILE:HG13	1.93	0.69
1:A:193:TYR:CZ	1:A:197:VAL:HG21	2.27	0.69
1:A:362:LEU:HD21	1:A:387:VAL:HG11	1.74	0.69
1:A:498:PHE:CD1	1:A:716:ILE:HD11	2.27	0.69
1:A:547:PHE:HB3	1:A:550:ALA:HB2	1.75	0.69
1:C:815:ARG:HA	1:C:818:GLN:OE1	1.92	0.69
2:D:43:THR:HG23	2:D:46:GLU:OE2	1.92	0.69
2:D:70:LEU:O	2:D:74:GLN:NE2	2.25	0.69
1:G:164:MET:SD	1:G:256:PHE:CD2	2.85	0.69
1:G:619:LYS:HD3	1:G:623:ASP:OD2	1.93	0.69
1:A:165:LEU:HD21	1:A:260:GLY:HA3	1.74	0.69
2:B:55:LYS:H	2:B:58:GLU:HG3	1.57	0.69
1:C:405:PRO:HG3	1:C:418:GLN:NE2	2.07	0.69
1:E:164:MET:SD	1:E:256:PHE:CD2	2.85	0.69
1:E:164:MET:SD	1:E:256:PHE:HD2	2.16	0.69
1:E:237:ALA:HA	1:E:288:HIS:CD2	2.27	0.69
1:E:362:LEU:CD2	1:E:387:VAL:HG11	2.23	0.69
1:E:362:LEU:HD21	1:E:387:VAL:HG11	1.75	0.69
2:F:55:LYS:H	2:F:58:GLU:HG3	1.58	0.69
2:F:93:ARG:O	2:F:96:ASP:HB2	1.92	0.69
1:G:291:TYR:HD2	1:G:310:PHE:HE1	1.40	0.69
1:G:547:PHE:HB3	1:G:550:ALA:HB2	1.75	0.69
2:H:35:MET:HG2	2:H:69:PHE:HZ	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:93:ARG:O	2:B:96:ASP:HB2	1.92	0.69
1:C:36:TRP:HE1	1:C:78:MET:HA	1.58	0.69
1:C:268:GLU:OE2	1:C:666:GLN:NE2	2.24	0.69
1:C:701:VAL:O	1:C:705:LEU:HD12	1.93	0.69
1:E:539:ALA:O	1:E:542:ASP:HB2	1.93	0.69
1:G:164:MET:SD	1:G:256:PHE:HD2	2.16	0.69
1:G:368:LYS:HZ2	1:G:379:PRO:HG2	1.55	0.69
1:G:470:GLU:HB2	1:G:472:PHE:HE1	1.58	0.69
1:A:405:PRO:HG3	1:A:418:GLN:NE2	2.07	0.69
1:A:701:VAL:O	1:A:705:LEU:HD12	1.93	0.69
1:C:731:ARG:O	1:C:731:ARG:HD2	1.92	0.69
1:G:215:PHE:CD1	1:G:216:SER:N	2.61	0.69
1:G:254:ILE:O	1:G:460:PHE:HA	1.92	0.69
1:G:437:ARG:HE	1:G:625:TRP:HA	1.56	0.69
1:A:53:LYS:HE2	1:A:53:LYS:HA	1.75	0.68
1:A:268:GLU:OE2	1:A:666:GLN:NE2	2.24	0.68
1:A:328:ASP:CA	1:A:331:MET:HB2	2.21	0.68
2:B:70:LEU:O	2:B:74:GLN:NE2	2.26	0.68
1:C:482:ILE:HG22	1:C:483:ASN:N	2.09	0.68
1:C:528:ILE:O	1:C:528:ILE:HG13	1.92	0.68
1:C:802:GLN:HG3	2:D:88:TYR:CZ	2.26	0.68
1:E:434:LYS:HG3	1:E:625:TRP:CZ2	2.29	0.68
1:G:290:PHE:O	1:G:294:ILE:HG13	1.93	0.68
1:G:539:ALA:O	1:G:542:ASP:HB2	1.93	0.68
1:A:747:MET:CG	1:G:812:PHE:CE2	2.76	0.68
1:C:328:ASP:CA	1:C:331:MET:HB2	2.20	0.68
1:E:232:GLU:HA	1:E:236:ASN:OD1	1.93	0.68
1:E:547:PHE:HB3	1:E:550:ALA:HB2	1.75	0.68
1:G:472:PHE:N	1:G:472:PHE:CD1	2.56	0.68
1:A:36:TRP:HE1	1:A:78:MET:HA	1.58	0.68
1:A:49:ILE:HG12	1:A:57:VAL:HG11	1.74	0.68
1:A:291:TYR:HD2	1:A:310:PHE:HE1	1.41	0.68
1:A:470:GLU:HB2	1:A:472:PHE:HE1	1.58	0.68
1:C:498:PHE:CD1	1:C:716:ILE:HD11	2.27	0.68
1:C:539:ALA:O	1:C:542:ASP:HB2	1.93	0.68
1:E:130:LEU:HB2	1:E:132:ILE:CD1	2.24	0.68
1:E:164:MET:HE3	1:E:256:PHE:CE2	2.25	0.68
1:E:735:GLU:OE2	1:E:756:MET:HE1	1.93	0.68
1:G:232:GLU:HA	1:G:236:ASN:OD1	1.94	0.68
1:G:362:LEU:CD2	1:G:387:VAL:HG11	2.23	0.68
1:G:420:LYS:HD3	1:G:421:GLU:HG2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:362:LEU:CD2	1:A:387:VAL:HG11	2.24	0.68
1:C:547:PHE:HB3	1:C:550:ALA:HB2	1.75	0.68
1:E:528:ILE:O	1:E:528:ILE:HG13	1.92	0.68
1:G:158:ASP:OD1	1:G:193:TYR:OH	2.10	0.68
2:F:35:MET:HG2	2:F:69:PHE:HZ	1.57	0.68
2:F:70:LEU:O	2:F:74:GLN:NE2	2.26	0.68
1:A:161:TYR:O	1:A:165:LEU:HD12	1.94	0.68
1:A:715:ARG:O	1:A:719:GLN:CG	2.42	0.68
1:C:164:MET:SD	1:C:256:PHE:HD2	2.16	0.68
1:C:361:GLN:HB3	1:C:387:VAL:HG23	1.72	0.68
1:E:291:TYR:HD2	1:E:310:PHE:HE1	1.39	0.68
1:G:362:LEU:HD21	1:G:387:VAL:HG11	1.74	0.68
1:G:482:ILE:HG22	1:G:483:ASN:N	2.09	0.68
1:A:215:PHE:CD1	1:A:216:SER:N	2.61	0.68
1:A:352:ILE:HG22	1:A:438:LEU:HD11	1.76	0.68
1:C:130:LEU:HB2	1:C:132:ILE:CD1	2.24	0.68
1:C:215:PHE:CD1	1:C:216:SER:N	2.61	0.68
1:C:232:GLU:HA	1:C:236:ASN:OD1	1.94	0.68
1:C:434:LYS:HG3	1:C:625:TRP:CZ2	2.28	0.68
2:D:51:LEU:HB3	2:D:54:PRO:CD	2.23	0.68
1:E:528:ILE:HD12	1:E:537:VAL:HB	1.74	0.68
1:E:715:ARG:O	1:E:719:GLN:CG	2.41	0.68
1:G:49:ILE:HG12	1:G:57:VAL:HG11	1.74	0.68
1:A:221:GLU:O	1:A:225:LEU:HD22	1.94	0.68
1:A:539:ALA:O	1:A:542:ASP:HB2	1.93	0.68
1:C:816:GLN:O	1:C:819:LEU:HG	1.94	0.68
1:E:49:ILE:HG12	1:E:57:VAL:HG11	1.74	0.68
1:G:124:ILE:H	1:G:124:ILE:HD12	1.59	0.68
1:A:815:ARG:HA	1:A:818:GLN:OE1	1.93	0.68
2:B:50:VAL:CG1	2:B:72:MET:HG2	2.24	0.68
1:C:53:LYS:HE2	1:C:53:LYS:HA	1.75	0.68
1:C:124:ILE:HD12	1:C:124:ILE:H	1.58	0.68
1:C:467:ALA:O	1:C:486:ASN:ND2	2.26	0.68
2:D:55:LYS:H	2:D:58:GLU:HG3	1.57	0.68
1:G:434:LYS:HG3	1:G:625:TRP:CZ2	2.29	0.68
1:C:420:LYS:HD3	1:C:421:GLU:HG2	1.76	0.68
1:C:715:ARG:O	1:C:719:GLN:CG	2.42	0.68
1:E:250:LYS:HE2	1:E:465:ASP:HB3	1.76	0.68
1:E:470:GLU:HB2	1:E:472:PHE:HE1	1.59	0.68
1:E:701:VAL:O	1:E:705:LEU:HD12	1.93	0.68
1:G:161:TYR:O	1:G:165:LEU:HD12	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:266:ASN:HA	1:G:447:ASN:OD1	1.94	0.68
2:H:50:VAL:CG1	2:H:72:MET:HG2	2.24	0.68
1:A:482:ILE:HG22	1:A:483:ASN:N	2.08	0.67
1:C:291:TYR:CD2	1:C:310:PHE:CE1	2.81	0.67
1:A:268:GLU:CG	1:A:270:TYR:OH	2.29	0.67
1:A:524:CYS:HB2	1:A:568:LYS:HG3	1.76	0.67
1:C:162:ARG:O	1:C:166:GLN:HG2	1.94	0.67
1:E:53:LYS:HE2	1:E:53:LYS:HA	1.75	0.67
1:E:619:LYS:HD3	1:E:623:ASP:OD2	1.93	0.67
1:G:250:LYS:HE2	1:G:465:ASP:HB3	1.76	0.67
1:G:715:ARG:O	1:G:719:GLN:CG	2.42	0.67
2:H:51:LEU:HB3	2:H:54:PRO:CD	2.23	0.67
1:A:145:LYS:CG	1:A:146:ARG:H	2.07	0.67
1:C:158:ASP:OD1	1:C:193:TYR:OH	2.10	0.67
1:C:290:PHE:O	1:C:294:ILE:HG13	1.93	0.67
1:C:524:CYS:HB2	1:C:568:LYS:HG3	1.76	0.67
1:E:3:GLN:H	1:E:18:ASN:ND2	1.91	0.67
1:E:36:TRP:HE1	1:E:78:MET:HA	1.58	0.67
1:E:221:GLU:O	1:E:225:LEU:HD22	1.94	0.67
1:E:816:GLN:O	1:E:819:LEU:HG	1.94	0.67
1:G:135:GLU:H	1:G:213:PRO:CD	2.07	0.67
1:G:528:ILE:HG13	1:G:528:ILE:O	1.92	0.67
1:G:568:LYS:HA	1:G:584:LEU:HB2	1.76	0.67
1:G:816:GLN:O	1:G:819:LEU:HG	1.94	0.67
1:A:232:GLU:HA	1:A:236:ASN:OD1	1.93	0.67
1:A:250:LYS:HE2	1:A:465:ASP:HB3	1.76	0.67
1:C:221:GLU:O	1:C:225:LEU:HD22	1.94	0.67
1:C:362:LEU:HD21	1:C:387:VAL:HG11	1.75	0.67
2:F:50:VAL:CG1	2:F:72:MET:HG2	2.24	0.67
2:F:103:VAL:HG12	2:F:104:MET:N	2.09	0.67
1:G:36:TRP:HE1	1:G:78:MET:HA	1.57	0.67
1:G:524:CYS:HB2	1:G:568:LYS:HG3	1.76	0.67
1:A:215:PHE:HD1	1:A:216:SER:N	1.93	0.67
1:A:568:LYS:HA	1:A:584:LEU:HB2	1.76	0.67
2:B:103:VAL:HG12	2:B:104:MET:N	2.09	0.67
1:G:130:LEU:HB2	1:G:132:ILE:CD1	2.24	0.67
1:G:337:GLU:O	1:G:341:ILE:HG12	1.95	0.67
1:A:124:ILE:H	1:A:124:ILE:HD12	1.58	0.67
1:C:52:GLU:HA	1:C:57:VAL:HG13	1.77	0.67
1:C:266:ASN:HA	1:C:447:ASN:OD1	1.95	0.67
1:C:434:LYS:HG3	1:C:625:TRP:HZ2	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:162:ARG:O	1:E:166:GLN:HG2	1.94	0.67
2:F:51:LEU:HB3	2:F:54:PRO:CD	2.23	0.67
1:G:701:VAL:O	1:G:705:LEU:HD12	1.93	0.67
1:A:434:LYS:HG3	1:A:625:TRP:CZ2	2.30	0.67
2:B:108:ILE:HG22	2:B:109:ARG:N	2.10	0.67
1:C:272:LEU:O	1:C:274:LYS:HG3	1.94	0.67
1:E:161:TYR:O	1:E:165:LEU:HD12	1.94	0.67
1:E:467:ALA:O	1:E:486:ASN:ND2	2.26	0.67
1:G:61:LEU:CD1	1:G:64:ASN:H	2.08	0.67
1:G:145:LYS:CG	1:G:146:ARG:H	2.08	0.67
1:A:130:LEU:HB2	1:A:132:ILE:CD1	2.24	0.67
1:A:158:ASP:OD1	1:A:193:TYR:OH	2.10	0.67
1:C:135:GLU:H	1:C:213:PRO:CD	2.07	0.67
1:C:161:TYR:O	1:C:165:LEU:HD12	1.94	0.67
1:E:272:LEU:O	1:E:274:LYS:HG3	1.94	0.67
1:A:135:GLU:H	1:A:213:PRO:CD	2.07	0.67
1:A:619:LYS:HD3	1:A:623:ASP:OD2	1.93	0.67
1:C:215:PHE:HD1	1:C:216:SER:N	1.93	0.67
1:C:291:TYR:HD2	1:C:310:PHE:CE1	2.13	0.67
1:C:337:GLU:O	1:C:341:ILE:HG12	1.95	0.67
1:C:470:GLU:HB2	1:C:472:PHE:HE1	1.58	0.67
1:E:420:LYS:HD3	1:E:421:GLU:HG2	1.76	0.67
2:F:64:LEU:HD11	2:F:72:MET:CE	2.25	0.67
1:G:53:LYS:HE2	1:G:53:LYS:HA	1.76	0.67
1:G:221:GLU:O	1:G:225:LEU:HD22	1.94	0.67
2:D:108:ILE:HG22	2:D:109:ARG:N	2.10	0.67
1:G:272:LEU:O	1:G:274:LYS:HG3	1.94	0.67
1:A:3:GLN:H	1:A:18:ASN:ND2	1.91	0.66
1:A:291:TYR:CD2	1:A:310:PHE:CE1	2.82	0.66
1:A:420:LYS:HD3	1:A:421:GLU:HG2	1.76	0.66
2:B:25:LYS:HE3	2:B:65:LYS:NZ	2.11	0.66
1:C:352:ILE:HG22	1:C:438:LEU:HD11	1.75	0.66
1:E:352:ILE:HG22	1:E:438:LEU:HD11	1.75	0.66
1:E:593:ASN:OD1	1:E:595:SER:HB3	1.96	0.66
1:A:467:ALA:O	1:A:486:ASN:ND2	2.26	0.66
1:A:816:GLN:O	1:A:819:LEU:HG	1.94	0.66
2:B:35:MET:HG2	2:B:69:PHE:HZ	1.58	0.66
1:C:464:LEU:CG	1:C:466:ILE:HG23	2.26	0.66
2:D:12:LYS:O	2:D:16:GLN:CG	2.42	0.66
2:D:50:VAL:CG1	2:D:72:MET:HG2	2.24	0.66
1:E:145:LYS:CG	1:E:146:ARG:H	2.07	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:25:LYS:HE3	2:F:65:LYS:NZ	2.11	0.66
1:G:162:ARG:O	1:G:166:GLN:HG2	1.94	0.66
2:H:25:LYS:HE3	2:H:65:LYS:NZ	2.11	0.66
2:H:55:LYS:H	2:H:58:GLU:HG3	1.58	0.66
1:E:434:LYS:HG3	1:E:625:TRP:HZ2	1.60	0.66
1:G:52:GLU:HA	1:G:57:VAL:HG13	1.77	0.66
1:C:145:LYS:CG	1:C:146:ARG:H	2.07	0.66
1:E:61:LEU:CD1	1:E:64:ASN:H	2.08	0.66
1:E:215:PHE:HD1	1:E:216:SER:N	1.93	0.66
1:E:712:GLU:O	1:E:716:ILE:HD12	1.96	0.66
1:G:593:ASN:OD1	1:G:595:SER:HB3	1.96	0.66
1:A:61:LEU:CD1	1:A:64:ASN:H	2.08	0.66
1:A:342:MET:CE	1:A:449:ALA:HB3	2.26	0.66
1:C:175:CYS:HB3	1:C:684:CYS:SG	2.36	0.66
1:E:583:ILE:O	1:E:589:LYS:HA	1.95	0.66
1:G:175:CYS:HB3	1:G:684:CYS:SG	2.36	0.66
1:G:291:TYR:CD2	1:G:310:PHE:CE1	2.81	0.66
1:G:583:ILE:O	1:G:589:LYS:HA	1.95	0.66
2:H:64:LEU:HD11	2:H:72:MET:CE	2.25	0.66
1:A:138:ILE:HG21	1:A:196:VAL:HG21	1.78	0.66
1:A:464:LEU:CG	1:A:466:ILE:HG23	2.26	0.66
1:C:568:LYS:HA	1:C:584:LEU:HB2	1.76	0.66
2:D:25:LYS:HE3	2:D:65:LYS:NZ	2.11	0.66
1:E:175:CYS:HB3	1:E:684:CYS:SG	2.36	0.66
1:E:337:GLU:O	1:E:341:ILE:HG12	1.95	0.66
1:G:735:GLU:CG	1:G:756:MET:HE1	2.26	0.66
1:C:500:LEU:O	1:C:503:GLU:CG	2.44	0.66
1:E:77:LYS:CD	1:E:96:ASN:HD21	2.06	0.66
2:F:9:ALA:C	2:F:12:LYS:HG3	2.16	0.66
1:G:407:ILE:HB	1:G:414:VAL:O	1.96	0.66
2:H:103:VAL:HG12	2:H:104:MET:N	2.10	0.66
1:A:291:TYR:HD2	1:A:310:PHE:CE1	2.13	0.66
1:C:490:GLN:HG3	1:C:521:LEU:HD11	1.78	0.66
1:C:500:LEU:HA	1:C:503:GLU:HG3	1.78	0.66
1:C:583:ILE:O	1:C:589:LYS:HA	1.95	0.66
1:E:490:GLN:HG3	1:E:521:LEU:HD11	1.78	0.66
1:G:606:ASN:OD1	1:G:609:VAL:HG12	1.96	0.66
1:A:593:ASN:OD1	1:A:595:SER:HB3	1.95	0.66
1:E:138:ILE:HG21	1:E:196:VAL:HG21	1.78	0.66
1:E:266:ASN:HA	1:E:447:ASN:OD1	1.95	0.66
2:H:123:GLU:O	2:H:127:LEU:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:175:CYS:HB3	1:A:684:CYS:SG	2.36	0.66
1:A:272:LEU:O	1:A:274:LYS:HG3	1.95	0.66
1:A:606:ASN:OD1	1:A:609:VAL:HG12	1.97	0.66
1:C:250:LYS:HE2	1:C:465:ASP:HB3	1.76	0.66
2:D:123:GLU:O	2:D:127:LEU:HB2	1.96	0.66
1:E:407:ILE:HB	1:E:414:VAL:O	1.96	0.66
1:E:524:CYS:HB2	1:E:568:LYS:HG3	1.77	0.66
1:A:162:ARG:O	1:A:166:GLN:HG2	1.95	0.65
1:A:663:TYR:CE1	1:A:667:LEU:HD13	2.31	0.65
1:E:135:GLU:H	1:E:213:PRO:CD	2.08	0.65
1:E:291:TYR:HD2	1:E:310:PHE:CE1	2.13	0.65
1:E:482:ILE:HG22	1:E:483:ASN:N	2.10	0.65
1:E:500:LEU:O	1:E:503:GLU:CG	2.44	0.65
1:G:490:GLN:HG3	1:G:521:LEU:HD11	1.78	0.65
1:A:266:ASN:HA	1:A:447:ASN:OD1	1.95	0.65
1:A:407:ILE:HB	1:A:414:VAL:O	1.96	0.65
1:A:490:GLN:HG3	1:A:521:LEU:HD11	1.79	0.65
1:A:735:GLU:CD	1:A:756:MET:HE1	2.17	0.65
2:B:64:LEU:HD11	2:B:72:MET:CE	2.26	0.65
1:C:342:MET:CE	1:C:449:ALA:HB3	2.26	0.65
1:C:606:ASN:OD1	1:C:609:VAL:HG12	1.96	0.65
1:E:441:TRP:CE3	1:E:442:ILE:HD13	2.32	0.65
1:E:464:LEU:CG	1:E:466:ILE:HG23	2.26	0.65
1:G:291:TYR:HD2	1:G:310:PHE:CE1	2.13	0.65
1:G:352:ILE:HG22	1:G:438:LEU:HD11	1.75	0.65
1:A:52:GLU:HA	1:A:57:VAL:HG13	1.77	0.65
1:A:79:ASN:HD21	1:A:94:CYS:H	1.44	0.65
1:A:337:GLU:O	1:A:341:ILE:HG12	1.95	0.65
1:A:700:LEU:HD23	1:A:701:VAL:N	2.11	0.65
2:B:65:LYS:H	2:B:68:GLN:HE21	1.44	0.65
1:C:663:TYR:CE1	1:C:667:LEU:HD13	2.31	0.65
1:C:769:ILE:CD1	1:C:774:ILE:HD13	2.27	0.65
1:G:663:TYR:CE1	1:G:667:LEU:HD13	2.31	0.65
1:C:593:ASN:OD1	1:C:595:SER:HB3	1.96	0.65
1:C:700:LEU:HD23	1:C:701:VAL:N	2.11	0.65
1:E:342:MET:CE	1:E:449:ALA:HB3	2.26	0.65
1:E:769:ILE:CD1	1:E:774:ILE:HD13	2.27	0.65
2:F:123:GLU:O	2:F:127:LEU:HB2	1.96	0.65
1:G:441:TRP:CE3	1:G:442:ILE:HD13	2.32	0.65
1:G:500:LEU:HA	1:G:503:GLU:HG3	1.78	0.65
1:G:686:ILE:HD13	1:G:687:PRO:CD	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:500:LEU:HA	1:A:503:GLU:HG3	1.78	0.65
2:D:64:LEU:HD11	2:D:72:MET:CE	2.25	0.65
1:G:712:GLU:O	1:G:716:ILE:HD12	1.96	0.65
1:A:712:GLU:O	1:A:716:ILE:HD12	1.97	0.65
1:A:746:PHE:HB3	2:H:10:GLU:HG2	1.79	0.65
1:C:517:PHE:CZ	1:C:716:ILE:HG13	2.32	0.65
1:E:663:TYR:CE1	1:E:667:LEU:HD13	2.31	0.65
2:D:103:VAL:HG12	2:D:104:MET:N	2.10	0.65
1:E:568:LYS:HA	1:E:584:LEU:HB2	1.77	0.65
2:F:108:ILE:HG22	2:F:109:ARG:N	2.11	0.65
1:G:500:LEU:O	1:G:503:GLU:CG	2.44	0.65
1:G:700:LEU:HD23	1:G:701:VAL:N	2.11	0.65
1:A:234:PHE:HD2	1:A:289:ILE:HG12	1.62	0.65
2:B:9:ALA:C	2:B:12:LYS:HG3	2.17	0.65
1:C:441:TRP:CE3	1:C:442:ILE:HD13	2.32	0.65
1:C:799:PHE:CZ	1:C:803:CYS:SG	2.90	0.65
1:E:517:PHE:CZ	1:E:716:ILE:HG13	2.32	0.65
1:E:522:GLN:N	1:E:523:PRO:HD2	2.12	0.65
1:G:469:PHE:N	1:G:486:ASN:OD1	2.30	0.65
1:A:735:GLU:CG	1:A:756:MET:HE1	2.27	0.65
1:A:769:ILE:CD1	1:A:774:ILE:HD13	2.27	0.65
2:D:104:MET:N	2:D:104:MET:SD	2.70	0.65
2:F:84:CYS:O	2:F:87:ASP:N	2.28	0.65
1:G:138:ILE:HG21	1:G:196:VAL:HG21	1.78	0.65
2:H:108:ILE:HG22	2:H:109:ARG:N	2.10	0.65
1:A:500:LEU:O	1:A:503:GLU:CG	2.45	0.65
1:A:799:PHE:CZ	1:A:803:CYS:SG	2.90	0.65
1:C:61:LEU:CD1	1:C:64:ASN:H	2.08	0.65
1:C:280:GLN:NE2	1:C:315:PHE:O	2.30	0.65
1:G:234:PHE:HD2	1:G:289:ILE:HG12	1.62	0.65
1:G:268:GLU:CG	1:G:270:TYR:OH	2.28	0.65
1:G:464:LEU:CG	1:G:466:ILE:HG23	2.26	0.65
1:A:441:TRP:CE3	1:A:442:ILE:HD13	2.32	0.64
2:B:40:GLN:OE1	2:B:40:GLN:HA	1.97	0.64
1:E:302:ARG:HA	1:E:307:LEU:HD11	1.79	0.64
1:E:469:PHE:N	1:E:486:ASN:OD1	2.29	0.64
1:E:606:ASN:OD1	1:E:609:VAL:HG12	1.96	0.64
1:E:700:LEU:HD23	1:E:701:VAL:N	2.12	0.64
1:G:215:PHE:HD1	1:G:216:SER:N	1.94	0.64
1:G:735:GLU:CD	1:G:756:MET:HE1	2.16	0.64
1:G:769:ILE:CD1	1:G:774:ILE:HD13	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:12:LYS:O	2:H:16:GLN:CG	2.42	0.64
2:H:85:PHE:O	2:H:88:TYR:N	2.26	0.64
2:B:85:PHE:CE1	2:B:145:ARG:CG	2.79	0.64
1:C:372:ASN:H	1:C:372:ASN:ND2	1.95	0.64
1:C:573:LYS:HE3	1:C:589:LYS:HZ3	1.62	0.64
1:E:280:GLN:NE2	1:E:315:PHE:O	2.30	0.64
1:E:799:PHE:CZ	1:E:803:CYS:SG	2.90	0.64
1:G:196:VAL:HG12	1:G:217:TYR:CE2	2.32	0.64
1:A:102:HIS:O	1:A:105:ARG:N	2.30	0.64
1:A:354:ARG:NH1	1:A:354:ARG:HB3	2.12	0.64
1:A:583:ILE:O	1:A:589:LYS:HA	1.96	0.64
1:A:745:GLY:HA3	1:G:816:GLN:HE21	1.60	0.64
2:B:104:MET:N	2:B:104:MET:SD	2.71	0.64
1:C:196:VAL:HG12	1:C:217:TYR:CE2	2.32	0.64
1:E:102:HIS:O	1:E:105:ARG:N	2.30	0.64
1:E:196:VAL:HG12	1:E:217:TYR:CE2	2.32	0.64
2:F:104:MET:N	2:F:104:MET:SD	2.70	0.64
1:G:342:MET:CE	1:G:449:ALA:HB3	2.26	0.64
1:G:517:PHE:CZ	1:G:716:ILE:HG13	2.32	0.64
1:G:630:ARG:NH2	1:G:657:ARG:HB2	2.13	0.64
1:C:469:PHE:N	1:C:486:ASN:OD1	2.30	0.64
1:C:533:ASN:HB3	1:C:534:PRO:CD	2.27	0.64
1:C:712:GLU:O	1:C:716:ILE:HD12	1.96	0.64
1:C:789:ASP:HA	1:C:792:ILE:HD11	1.80	0.64
1:G:533:ASN:HB3	1:G:534:PRO:CD	2.27	0.64
1:G:799:PHE:CZ	1:G:803:CYS:SG	2.90	0.64
1:A:196:VAL:HG12	1:A:217:TYR:CE2	2.33	0.64
1:A:533:ASN:HB3	1:A:534:PRO:CD	2.27	0.64
1:C:3:GLN:H	1:C:18:ASN:ND2	1.91	0.64
1:C:234:PHE:HD2	1:C:289:ILE:HG12	1.62	0.64
1:C:510:ILE:HB	1:C:768:ARG:HG3	1.80	0.64
1:E:52:GLU:HA	1:E:57:VAL:HG13	1.77	0.64
1:A:522:GLN:N	1:A:523:PRO:HD2	2.13	0.64
1:A:686:ILE:HD13	1:A:687:PRO:CD	2.17	0.64
1:C:95:LEU:HD11	1:C:714:ILE:CG2	2.28	0.64
1:C:407:ILE:HB	1:C:414:VAL:O	1.96	0.64
1:G:311:ASN:HD21	1:G:319:GLY:HA3	1.63	0.64
2:H:9:ALA:C	2:H:12:LYS:HG3	2.17	0.64
1:A:49:ILE:HA	1:A:59:VAL:HG13	1.80	0.64
1:A:372:ASN:ND2	1:A:372:ASN:H	1.94	0.64
1:C:61:LEU:HD12	1:C:63:GLU:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:102:HIS:O	1:C:105:ARG:N	2.31	0.64
1:E:13:LEU:HD11	1:E:137:ILE:HG23	1.77	0.64
1:E:393:ILE:CG2	1:E:616:SER:HB2	2.28	0.64
1:G:51:GLU:O	1:G:58:THR:HG23	1.98	0.64
1:G:125:ASN:OD1	1:G:126:PRO:HD2	1.98	0.64
1:G:280:GLN:NE2	1:G:315:PHE:O	2.30	0.64
1:G:522:GLN:N	1:G:523:PRO:HD2	2.13	0.64
2:H:65:LYS:CB	2:H:68:GLN:HG3	2.26	0.64
1:C:138:ILE:HG21	1:C:196:VAL:HG21	1.78	0.64
1:C:763:ASP:O	1:C:765:ASN:N	2.31	0.64
1:E:500:LEU:HA	1:E:503:GLU:HG3	1.77	0.64
1:G:467:ALA:O	1:G:486:ASN:ND2	2.26	0.64
1:A:280:GLN:NE2	1:A:315:PHE:O	2.30	0.64
2:B:123:GLU:O	2:B:127:LEU:HB2	1.97	0.64
1:C:354:ARG:NH1	1:C:354:ARG:HB3	2.13	0.64
1:C:735:GLU:CD	1:C:756:MET:HE1	2.18	0.64
1:E:293:LEU:HD11	1:E:301:MET:HE1	1.79	0.64
1:E:630:ARG:NH2	1:E:657:ARG:HB2	2.12	0.64
2:F:35:MET:SD	2:F:76:ILE:HD12	2.38	0.64
1:G:168:ARG:HH11	2:H:97:LYS:HE3	1.63	0.64
1:G:434:LYS:HG3	1:G:625:TRP:HZ2	1.62	0.64
1:G:477:PHE:CE1	1:G:480:LEU:HD23	2.33	0.64
2:H:104:MET:N	2:H:104:MET:SD	2.70	0.64
1:C:311:ASN:HD21	1:C:319:GLY:HA3	1.63	0.64
1:C:522:GLN:N	1:C:523:PRO:HD2	2.13	0.64
1:C:630:ARG:NH2	1:C:657:ARG:HB2	2.12	0.64
1:E:223:GLN:HG2	1:E:342:MET:HA	1.80	0.64
1:E:354:ARG:HB3	1:E:354:ARG:NH1	2.13	0.64
1:G:510:ILE:HB	1:G:768:ARG:HG3	1.80	0.64
1:A:469:PHE:N	1:A:486:ASN:OD1	2.31	0.63
1:A:510:ILE:HB	1:A:768:ARG:HG3	1.80	0.63
1:C:49:ILE:HA	1:C:59:VAL:HG13	1.79	0.63
1:E:95:LEU:HD11	1:E:714:ILE:CG2	2.28	0.63
1:E:409:VAL:HB	1:E:412:ASP:OD1	1.99	0.63
1:A:168:ARG:HH11	2:B:97:LYS:HE3	1.63	0.63
1:A:302:ARG:HA	1:A:307:LEU:HD11	1.80	0.63
1:A:393:ILE:CG2	1:A:616:SER:HB2	2.27	0.63
2:B:44:ASN:HB3	2:B:117:GLU:OE1	1.97	0.63
1:C:393:ILE:CG2	1:C:616:SER:HB2	2.28	0.63
1:E:49:ILE:HA	1:E:59:VAL:HG13	1.80	0.63
1:E:168:ARG:HH11	2:F:97:LYS:HE3	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:95:LEU:HD11	1:G:714:ILE:CG2	2.28	0.63
1:G:354:ARG:HB3	1:G:354:ARG:HH11	1.62	0.63
1:G:409:VAL:HB	1:G:412:ASP:OD1	1.98	0.63
1:A:61:LEU:HD12	1:A:63:GLU:HB3	1.80	0.63
1:A:125:ASN:OD1	1:A:126:PRO:HD2	1.97	0.63
1:A:517:PHE:CZ	1:A:716:ILE:HG13	2.32	0.63
1:E:234:PHE:HD2	1:E:289:ILE:HG12	1.62	0.63
1:E:735:GLU:CD	1:E:756:MET:HE1	2.18	0.63
2:F:65:LYS:H	2:F:68:GLN:HE21	1.45	0.63
1:G:3:GLN:H	1:G:18:ASN:ND2	1.91	0.63
1:G:293:LEU:HD11	1:G:301:MET:HE1	1.80	0.63
1:G:535:PRO:HG2	1:G:540:LEU:HD21	1.81	0.63
2:H:35:MET:SD	2:H:76:ILE:HD12	2.38	0.63
1:C:535:PRO:HG2	1:C:540:LEU:HD21	1.80	0.63
2:D:35:MET:SD	2:D:76:ILE:HD12	2.38	0.63
1:E:125:ASN:OD1	1:E:126:PRO:HD2	1.98	0.63
1:E:533:ASN:HB3	1:E:534:PRO:CD	2.27	0.63
1:G:49:ILE:HA	1:G:59:VAL:HG13	1.79	0.63
1:G:89:MET:O	1:G:92:LEU:HD12	1.98	0.63
1:G:789:ASP:HA	1:G:792:ILE:HD11	1.80	0.63
1:A:95:LEU:HD11	1:A:714:ILE:CG2	2.28	0.63
1:C:89:MET:O	1:C:92:LEU:HD12	1.98	0.63
2:D:9:ALA:C	2:D:12:LYS:HG3	2.16	0.63
1:E:36:TRP:NE1	1:E:78:MET:HG3	2.13	0.63
1:E:61:LEU:HD12	1:E:63:GLU:HB3	1.80	0.63
1:G:393:ILE:CG2	1:G:616:SER:HB2	2.28	0.63
1:G:763:ASP:O	1:G:765:ASN:N	2.31	0.63
1:A:89:MET:O	1:A:92:LEU:HD12	1.98	0.63
1:C:36:TRP:NE1	1:C:78:MET:HG3	2.13	0.63
1:C:302:ARG:HA	1:C:307:LEU:HD11	1.81	0.63
1:C:51:GLU:O	1:C:58:THR:HG23	1.98	0.63
1:C:400:ARG:O	1:C:404:THR:N	2.32	0.63
1:C:477:PHE:CE1	1:C:480:LEU:HD23	2.33	0.63
1:C:586:TYR:CD1	1:C:587:ALA:N	2.67	0.63
1:E:287:PHE:HD1	1:E:287:PHE:H	1.46	0.63
1:G:287:PHE:H	1:G:287:PHE:HD1	1.47	0.63
1:G:354:ARG:HB3	1:G:354:ARG:NH1	2.13	0.63
1:G:586:TYR:CD1	1:G:587:ALA:N	2.67	0.63
1:A:477:PHE:CE1	1:A:480:LEU:HD23	2.33	0.63
1:A:777:ARG:HB3	1:A:780:VAL:HG21	1.81	0.63
1:A:789:ASP:HA	1:A:792:ILE:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:477:PHE:CE1	1:E:480:LEU:HD23	2.33	0.63
1:G:102:HIS:O	1:G:105:ARG:N	2.31	0.63
1:A:535:PRO:HG2	1:A:540:LEU:HD21	1.80	0.63
1:E:12:PHE:HB3	1:E:132:ILE:HG21	1.79	0.63
1:E:89:MET:O	1:E:92:LEU:HD12	1.98	0.63
1:G:79:ASN:ND2	1:G:94:CYS:H	1.97	0.63
1:A:223:GLN:HG2	1:A:342:MET:HA	1.80	0.62
1:C:168:ARG:HH11	2:D:97:LYS:HE3	1.63	0.62
1:E:510:ILE:HB	1:E:768:ARG:HG3	1.80	0.62
1:E:733:ARG:NH1	2:F:95:PHE:HA	2.14	0.62
2:F:114:THR:C	2:F:115:LEU:HD12	2.19	0.62
1:G:508:GLU:OE1	1:G:771:GLN:N	2.32	0.62
2:H:65:LYS:H	2:H:68:GLN:HE21	1.46	0.62
2:B:114:THR:C	2:B:115:LEU:HD12	2.20	0.62
1:C:777:ARG:HB3	1:C:780:VAL:HG21	1.81	0.62
1:E:586:TYR:CD1	1:E:587:ALA:N	2.67	0.62
1:G:372:ASN:ND2	1:G:372:ASN:H	1.95	0.62
2:H:114:THR:C	2:H:115:LEU:HD12	2.20	0.62
1:A:293:LEU:HD11	1:A:301:MET:HE1	1.82	0.62
1:A:409:VAL:HB	1:A:412:ASP:OD1	1.99	0.62
1:A:780:VAL:O	1:A:784:LEU:HD23	2.00	0.62
1:C:780:VAL:O	1:C:784:LEU:HD23	1.99	0.62
2:D:114:THR:C	2:D:115:LEU:HD12	2.20	0.62
1:E:79:ASN:HD21	1:E:92:LEU:HB3	1.64	0.62
1:G:61:LEU:HD12	1:G:63:GLU:HB3	1.80	0.62
1:G:400:ARG:O	1:G:404:THR:N	2.32	0.62
1:A:705:LEU:HD23	1:A:710:VAL:HG21	1.81	0.62
1:A:733:ARG:NH1	2:B:95:PHE:HA	2.14	0.62
2:B:35:MET:SD	2:B:76:ILE:HD12	2.40	0.62
1:C:125:ASN:OD1	1:C:126:PRO:HD2	1.98	0.62
1:C:733:ARG:NH1	2:D:95:PHE:HA	2.15	0.62
1:E:372:ASN:ND2	1:E:372:ASN:H	1.96	0.62
1:E:777:ARG:HB3	1:E:780:VAL:HG21	1.81	0.62
1:E:780:VAL:O	1:E:784:LEU:HD23	2.00	0.62
2:F:12:LYS:O	2:F:16:GLN:CG	2.42	0.62
1:A:311:ASN:HD21	1:A:319:GLY:HA3	1.63	0.62
2:D:65:LYS:H	2:D:68:GLN:HE21	1.45	0.62
1:E:311:ASN:HD21	1:E:319:GLY:HA3	1.64	0.62
1:E:573:LYS:HE3	1:E:589:LYS:HZ3	1.63	0.62
1:E:601:ASN:OD1	1:E:658:THR:OG1	2.17	0.62
1:E:712:GLU:O	1:E:716:ILE:CD1	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:40:GLN:OE1	2:F:40:GLN:HA	2.00	0.62
1:G:145:LYS:HG3	1:G:146:ARG:H	1.64	0.62
1:G:305:LEU:HB2	1:G:307:LEU:CD2	2.30	0.62
1:A:51:GLU:O	1:A:58:THR:HG23	1.98	0.62
1:A:265:ALA:N	1:A:450:LEU:O	2.33	0.62
2:B:71:PRO:O	2:B:75:THR:HG23	1.99	0.62
2:B:125:GLU:O	2:B:129:ALA:HB2	2.00	0.62
1:C:757:ILE:HA	1:C:760:LEU:HD12	1.81	0.62
2:D:71:PRO:O	2:D:75:THR:HG23	1.99	0.62
1:E:293:LEU:HD12	1:E:297:ALA:HB2	1.82	0.62
1:E:586:TYR:CE1	1:E:587:ALA:HB2	2.35	0.62
2:F:71:PRO:O	2:F:75:THR:HG23	1.99	0.62
1:G:586:TYR:CE1	1:G:587:ALA:HB2	2.35	0.62
1:A:135:GLU:HB2	1:A:213:PRO:N	2.15	0.62
1:A:293:LEU:HD12	1:A:297:ALA:HB2	1.82	0.62
1:C:268:GLU:HG3	1:C:270:TYR:CE1	2.35	0.62
1:C:409:VAL:HB	1:C:412:ASP:OD1	1.99	0.62
1:C:586:TYR:CE1	1:C:587:ALA:HB2	2.34	0.62
1:C:705:LEU:HD23	1:C:710:VAL:HG21	1.80	0.62
1:G:36:TRP:NE1	1:G:78:MET:HG3	2.13	0.62
1:G:705:LEU:HD23	1:G:710:VAL:HG21	1.80	0.62
1:A:763:ASP:O	1:A:765:ASN:N	2.31	0.62
1:A:809:ARG:NH2	2:B:41:ASN:HD21	1.98	0.62
1:E:30:SER:O	1:E:32:LYS:HG2	2.00	0.62
1:E:381:ASN:HB2	1:E:385:GLN:HE21	1.65	0.62
1:E:705:LEU:HD23	1:E:710:VAL:HG21	1.80	0.62
1:G:268:GLU:HG3	1:G:270:TYR:CE1	2.35	0.62
1:G:302:ARG:HA	1:G:307:LEU:HD11	1.81	0.62
1:G:757:ILE:HA	1:G:760:LEU:HD12	1.81	0.62
2:H:71:PRO:O	2:H:75:THR:HG23	1.99	0.62
1:A:145:LYS:HG3	1:A:146:ARG:H	1.64	0.62
1:A:242:ASN:CB	1:A:245:SER:HB2	2.27	0.62
1:A:508:GLU:OE1	1:A:771:GLN:N	2.33	0.62
1:A:712:GLU:O	1:A:716:ILE:CD1	2.48	0.62
1:C:36:TRP:O	1:C:37:VAL:HG13	2.00	0.62
1:C:135:GLU:HB2	1:C:213:PRO:N	2.15	0.62
1:C:712:GLU:O	1:C:716:ILE:CD1	2.47	0.62
1:E:51:GLU:O	1:E:58:THR:HG23	1.98	0.62
1:E:305:LEU:HB2	1:E:307:LEU:CD2	2.30	0.62
1:G:513:ASN:HD21	1:G:515:ILE:HD11	1.65	0.62
1:G:712:GLU:O	1:G:716:ILE:CD1	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:513:ASN:HD21	1:A:515:ILE:HD11	1.65	0.62
1:C:298:SER:H	1:C:301:MET:CG	2.05	0.62
1:C:305:LEU:HB2	1:C:307:LEU:CD2	2.30	0.62
1:C:508:GLU:OE1	1:C:771:GLN:N	2.33	0.62
1:E:291:TYR:CD2	1:E:310:PHE:CE1	2.81	0.62
2:F:125:GLU:O	2:F:129:ALA:HB2	2.00	0.62
1:G:30:SER:O	1:G:32:LYS:HG2	2.00	0.62
1:A:287:PHE:HD1	1:A:287:PHE:H	1.47	0.61
1:A:446:VAL:HG12	1:A:447:ASN:N	2.15	0.61
1:A:747:MET:CG	1:G:812:PHE:CZ	2.83	0.61
1:C:223:GLN:HG2	1:C:342:MET:HA	1.81	0.61
1:E:268:GLU:HG3	1:E:270:TYR:CE1	2.34	0.61
1:E:508:GLU:OE1	1:E:771:GLN:N	2.33	0.61
1:G:135:GLU:HB2	1:G:213:PRO:N	2.15	0.61
2:D:125:GLU:O	2:D:129:ALA:HB2	1.99	0.61
1:E:145:LYS:HG3	1:E:146:ARG:H	1.64	0.61
1:E:490:GLN:CG	1:E:521:LEU:HD11	2.30	0.61
1:E:737:LEU:HD11	1:E:788:ARG:N	2.15	0.61
2:F:70:LEU:HG	2:F:74:GLN:HE21	1.65	0.61
1:G:547:PHE:CG	1:G:548:PRO:HD2	2.35	0.61
1:G:683:ARG:NH1	1:G:708:ASN:O	2.33	0.61
1:A:429:ALA:HA	1:A:432:LYS:HG2	1.82	0.61
1:A:482:ILE:HG22	1:A:483:ASN:OD1	2.00	0.61
1:A:586:TYR:CD1	1:A:587:ALA:N	2.68	0.61
1:A:630:ARG:NH2	1:A:657:ARG:HB2	2.13	0.61
1:C:293:LEU:HD12	1:C:297:ALA:HB2	1.82	0.61
1:C:381:ASN:HB2	1:C:385:GLN:HE21	1.65	0.61
1:C:482:ILE:HG22	1:C:483:ASN:OD1	2.00	0.61
1:C:490:GLN:HE21	1:C:494:ASN:ND2	1.87	0.61
1:C:513:ASN:HD21	1:C:515:ILE:HD11	1.65	0.61
1:E:226:GLN:C	1:E:229:PRO:HD2	2.20	0.61
1:E:535:PRO:HG2	1:E:540:LEU:HD21	1.81	0.61
1:G:36:TRP:O	1:G:37:VAL:HG13	2.00	0.61
1:A:395:VAL:HG23	1:A:396:THR:H	1.65	0.61
1:E:400:ARG:O	1:E:404:THR:N	2.32	0.61
1:E:513:ASN:HD21	1:E:515:ILE:HD11	1.65	0.61
1:G:381:ASN:HB2	1:G:385:GLN:HE21	1.65	0.61
1:G:490:GLN:CG	1:G:521:LEU:HD11	2.30	0.61
1:G:733:ARG:NH1	2:H:95:PHE:HA	2.14	0.61
1:A:36:TRP:NE1	1:A:78:MET:HG3	2.14	0.61
1:A:586:TYR:CE1	1:A:587:ALA:HB2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:51:LEU:C	2:B:54:PRO:HD3	2.20	0.61
1:C:243:ASP:OD1	1:C:323:ILE:HG13	2.01	0.61
1:C:490:GLN:CG	1:C:521:LEU:HD11	2.30	0.61
1:E:12:PHE:CE2	1:E:131:PRO:CD	2.82	0.61
1:E:135:GLU:HB2	1:E:213:PRO:N	2.15	0.61
2:F:51:LEU:O	2:F:54:PRO:CD	2.39	0.61
1:G:223:GLN:HG2	1:G:342:MET:HA	1.81	0.61
1:G:226:GLN:C	1:G:229:PRO:HD2	2.21	0.61
1:A:354:ARG:HB3	1:A:354:ARG:HH11	1.64	0.61
1:A:547:PHE:CG	1:A:548:PRO:HD2	2.35	0.61
1:C:354:ARG:HB3	1:C:354:ARG:HH11	1.66	0.61
1:C:601:ASN:OD1	1:C:658:THR:OG1	2.17	0.61
1:E:482:ILE:HG22	1:E:483:ASN:OD1	2.00	0.61
1:A:164:MET:HE3	1:A:256:PHE:CE2	2.29	0.61
1:A:481:CYS:HA	1:A:484:TYR:HB3	1.83	0.61
1:A:511:GLU:CD	2:H:145:ARG:HH11	2.02	0.61
1:C:395:VAL:HG23	1:C:396:THR:H	1.66	0.61
1:C:547:PHE:CG	1:C:548:PRO:HD2	2.36	0.61
1:E:391:MET:HB3	1:E:393:ILE:HG13	1.83	0.61
1:G:242:ASN:CB	1:G:245:SER:HB2	2.27	0.61
1:G:777:ARG:HB3	1:G:780:VAL:HG21	1.82	0.61
1:A:557:GLU:HA	1:A:560:ILE:CD1	2.31	0.61
1:C:301:MET:HE1	1:C:353:LEU:HD13	1.83	0.61
1:C:490:GLN:HG2	1:C:586:TYR:CD2	2.36	0.61
2:D:40:GLN:OE1	2:D:40:GLN:HA	2.00	0.61
1:E:395:VAL:HG23	1:E:396:THR:H	1.66	0.61
1:E:547:PHE:CG	1:E:548:PRO:HD2	2.35	0.61
1:G:293:LEU:HD12	1:G:297:ALA:HB2	1.82	0.61
1:G:573:LYS:HE3	1:G:589:LYS:HZ3	1.66	0.61
1:G:780:VAL:O	1:G:784:LEU:HD23	2.00	0.61
2:H:125:GLU:O	2:H:129:ALA:HB2	1.99	0.61
1:A:305:LEU:HB2	1:A:307:LEU:CD2	2.30	0.61
1:A:683:ARG:NH1	1:A:708:ASN:O	2.34	0.61
1:C:79:ASN:ND2	1:C:92:LEU:HB3	2.15	0.61
2:D:85:PHE:HE1	2:D:145:ARG:CG	2.13	0.61
1:E:265:ALA:N	1:E:450:LEU:O	2.34	0.61
1:G:354:ARG:HH11	1:G:354:ARG:CB	2.13	0.61
1:G:482:ILE:HG22	1:G:483:ASN:OD1	2.00	0.61
1:G:517:PHE:HE2	1:G:715:ARG:HB3	1.66	0.61
1:A:801:ALA:HA	1:A:804:ARG:HD2	1.83	0.61
1:C:226:GLN:C	1:C:229:PRO:HD2	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:398:PHE:HE1	1:C:402:ILE:HD13	1.66	0.61
1:C:572:SER:HB2	1:C:580:GLU:O	2.01	0.61
1:C:737:LEU:HD11	1:C:788:ARG:N	2.16	0.61
1:E:429:ALA:HA	1:E:432:LYS:HG2	1.83	0.61
1:E:557:GLU:HA	1:E:560:ILE:CD1	2.31	0.61
1:A:305:LEU:HD22	1:A:354:ARG:HB3	1.83	0.60
1:C:683:ARG:NH1	1:C:708:ASN:O	2.33	0.60
1:E:36:TRP:O	1:E:37:VAL:HG13	2.00	0.60
1:E:683:ARG:NH1	1:E:708:ASN:O	2.34	0.60
1:G:308:GLU:N	1:G:313:TYR:OH	2.32	0.60
1:G:572:SER:HB2	1:G:580:GLU:O	2.01	0.60
1:G:609:VAL:HG23	1:G:612:LEU:HD23	1.83	0.60
2:H:40:GLN:OE1	2:H:40:GLN:HA	2.01	0.60
1:A:120:PHE:H	1:A:120:PHE:HD1	1.48	0.60
1:A:490:GLN:CG	1:A:521:LEU:HD11	2.30	0.60
1:A:517:PHE:HE2	1:A:715:ARG:HB3	1.66	0.60
1:A:601:ASN:OD1	1:A:658:THR:OG1	2.17	0.60
1:A:609:VAL:HG23	1:A:612:LEU:HD23	1.83	0.60
1:C:429:ALA:HA	1:C:432:LYS:HG2	1.83	0.60
2:D:35:MET:HG2	2:D:69:PHE:CZ	2.36	0.60
1:E:753:CYS:HG	1:E:774:ILE:HD11	1.65	0.60
1:E:789:ASP:HA	1:E:792:ILE:HD11	1.81	0.60
1:E:801:ALA:HA	1:E:804:ARG:HD2	1.83	0.60
1:G:305:LEU:HD22	1:G:354:ARG:HB3	1.83	0.60
1:A:36:TRP:O	1:A:37:VAL:HG13	2.00	0.60
1:A:354:ARG:HH11	1:A:354:ARG:CB	2.14	0.60
2:B:12:LYS:O	2:B:16:GLN:CG	2.42	0.60
1:C:145:LYS:HG3	1:C:146:ARG:H	1.64	0.60
1:C:286:THR:HB	1:C:290:PHE:CD2	2.36	0.60
1:C:446:VAL:HG12	1:C:447:ASN:N	2.17	0.60
1:C:527:LEU:HD12	1:C:566:HIS:CG	2.37	0.60
1:G:391:MET:HB3	1:G:393:ILE:HG13	1.83	0.60
1:G:395:VAL:HG23	1:G:396:THR:H	1.66	0.60
1:G:601:ASN:OD1	1:G:658:THR:OG1	2.17	0.60
1:A:30:SER:O	1:A:32:LYS:HG2	2.00	0.60
1:A:286:THR:HB	1:A:290:PHE:CD2	2.37	0.60
1:A:400:ARG:O	1:A:404:THR:N	2.32	0.60
2:B:70:LEU:HG	2:B:74:GLN:HE21	1.65	0.60
1:C:391:MET:HB3	1:C:393:ILE:HG13	1.83	0.60
1:E:354:ARG:HB3	1:E:354:ARG:HH11	1.66	0.60
1:E:757:ILE:HA	1:E:760:LEU:HD12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:763:ASP:O	1:E:765:ASN:N	2.31	0.60
1:E:786:GLU:O	1:E:790:LEU:HD13	2.02	0.60
1:G:44:PHE:CD2	1:G:101:LEU:HD22	2.35	0.60
2:H:70:LEU:HG	2:H:74:GLN:HE21	1.65	0.60
1:A:226:GLN:C	1:A:229:PRO:HD2	2.21	0.60
1:A:226:GLN:HG2	1:A:338:ALA:HA	1.84	0.60
1:A:381:ASN:HB2	1:A:385:GLN:HE21	1.65	0.60
1:A:572:SER:HB2	1:A:580:GLU:O	2.01	0.60
1:A:735:GLU:OE2	1:A:756:MET:HE1	2.01	0.60
1:C:30:SER:O	1:C:32:LYS:HG2	2.00	0.60
1:G:527:LEU:HD12	1:G:566:HIS:CG	2.37	0.60
1:G:737:LEU:HD11	1:G:788:ARG:N	2.16	0.60
1:G:786:GLU:O	1:G:790:LEU:HD13	2.02	0.60
1:A:243:ASP:OD1	1:A:323:ILE:HG13	2.01	0.60
1:A:434:LYS:HG3	1:A:625:TRP:HZ2	1.66	0.60
1:C:786:GLU:O	1:C:790:LEU:HD13	2.01	0.60
2:D:113:VAL:HG13	2:D:119:MET:O	2.02	0.60
1:E:305:LEU:HD22	1:E:354:ARG:HB3	1.82	0.60
1:E:527:LEU:HD12	1:E:566:HIS:CG	2.37	0.60
2:H:35:MET:HG2	2:H:69:PHE:CZ	2.36	0.60
1:A:285:ARG:HB3	1:A:291:TYR:OH	2.02	0.60
1:C:420:LYS:O	1:C:423:ALA:HB3	2.02	0.60
1:C:557:GLU:HA	1:C:560:ILE:CD1	2.31	0.60
1:E:495:HIS:HA	1:E:499:ILE:HD12	1.84	0.60
1:E:609:VAL:HG23	1:E:612:LEU:HD23	1.83	0.60
1:G:429:ALA:HA	1:G:432:LYS:HG2	1.83	0.60
2:B:35:MET:HG2	2:B:69:PHE:CZ	2.37	0.60
2:B:41:ASN:N	2:B:42:PRO:HD3	2.17	0.60
1:C:287:PHE:HD1	1:C:287:PHE:H	1.46	0.60
1:E:572:SER:HB2	1:E:580:GLU:O	2.01	0.60
1:G:286:THR:HB	1:G:290:PHE:CD2	2.36	0.60
1:G:490:GLN:HG2	1:G:586:TYR:CD2	2.36	0.60
1:G:510:ILE:CD1	1:G:512:TRP:HB2	2.32	0.60
1:A:614:ASN:OD1	1:A:628:VAL:CG1	2.50	0.60
2:B:40:GLN:C	2:B:42:PRO:HD3	2.22	0.60
1:C:305:LEU:HD22	1:C:354:ARG:HB3	1.83	0.60
1:C:609:VAL:HG23	1:C:612:LEU:HD23	1.83	0.60
1:C:799:PHE:CE1	2:D:144:VAL:HG13	2.37	0.60
1:E:243:ASP:OD1	1:E:323:ILE:HG13	2.01	0.60
1:E:420:LYS:O	1:E:423:ALA:HB3	2.02	0.60
1:E:446:VAL:HG12	1:E:447:ASN:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:56:GLU:HG3	1:G:71:SER:HA	1.84	0.60
1:G:398:PHE:HE1	1:G:402:ILE:HD13	1.66	0.60
1:G:735:GLU:OE2	1:G:756:MET:HE1	2.02	0.60
1:G:799:PHE:CE1	2:H:144:VAL:HG13	2.37	0.60
2:H:113:VAL:HG13	2:H:119:MET:O	2.02	0.60
1:A:420:LYS:O	1:A:423:ALA:HB3	2.02	0.60
1:A:737:LEU:HD11	1:A:788:ARG:N	2.16	0.60
1:A:757:ILE:HA	1:A:760:LEU:HD12	1.82	0.60
1:A:799:PHE:CE1	2:B:144:VAL:HG13	2.37	0.60
1:A:816:GLN:HA	1:A:819:LEU:HD23	1.84	0.60
2:B:51:LEU:O	2:B:54:PRO:CD	2.37	0.60
1:E:56:GLU:HG3	1:E:71:SER:HA	1.84	0.60
1:E:226:GLN:HG2	1:E:338:ALA:HA	1.83	0.60
1:E:339:MET:O	1:E:342:MET:HB2	2.02	0.60
1:E:614:ASN:OD1	1:E:628:VAL:CG1	2.50	0.60
2:F:35:MET:HG2	2:F:69:PHE:CZ	2.36	0.60
1:G:420:LYS:O	1:G:423:ALA:HB3	2.02	0.60
1:G:614:ASN:OD1	1:G:628:VAL:CG1	2.50	0.60
1:A:573:LYS:HE3	1:A:589:LYS:HZ3	1.67	0.59
1:C:265:ALA:N	1:C:450:LEU:O	2.33	0.59
2:D:70:LEU:HG	2:D:74:GLN:HE21	1.65	0.59
1:E:12:PHE:HB3	1:E:132:ILE:HG22	1.81	0.59
1:E:286:THR:HB	1:E:290:PHE:CD2	2.36	0.59
1:E:517:PHE:HE2	1:E:715:ARG:HB3	1.66	0.59
2:F:51:LEU:C	2:F:54:PRO:HD3	2.21	0.59
1:G:243:ASP:OD1	1:G:323:ILE:HG13	2.01	0.59
1:G:327:GLN:HB3	1:G:330:GLU:CD	2.22	0.59
2:H:51:LEU:O	2:H:54:PRO:CD	2.39	0.59
1:A:510:ILE:CD1	1:A:512:TRP:HB2	2.32	0.59
2:B:85:PHE:O	2:B:89:VAL:HG22	2.02	0.59
1:C:285:ARG:HB3	1:C:291:TYR:OH	2.02	0.59
1:C:339:MET:O	1:C:342:MET:HB2	2.02	0.59
1:E:490:GLN:HG2	1:E:586:TYR:CD2	2.36	0.59
2:F:113:VAL:HG13	2:F:119:MET:O	2.02	0.59
1:G:446:VAL:HG12	1:G:447:ASN:N	2.16	0.59
1:G:557:GLU:HA	1:G:560:ILE:CD1	2.31	0.59
1:G:816:GLN:HA	1:G:819:LEU:HD23	1.84	0.59
2:H:8:THR:O	2:H:11:PHE:HB2	2.02	0.59
1:A:268:GLU:HG3	1:A:270:TYR:CE1	2.36	0.59
1:A:527:LEU:HD12	1:A:566:HIS:CG	2.37	0.59
1:C:361:GLN:HE22	1:C:386:LYS:HD3	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:8:THR:O	2:D:11:PHE:HB2	2.02	0.59
1:E:481:CYS:HA	1:E:484:TYR:HB3	1.84	0.59
2:B:113:VAL:HG13	2:B:119:MET:O	2.02	0.59
1:C:226:GLN:HG2	1:C:338:ALA:HA	1.83	0.59
1:C:327:GLN:HB3	1:C:330:GLU:CD	2.22	0.59
1:E:298:SER:H	1:E:301:MET:CG	2.06	0.59
1:E:799:PHE:CE1	2:F:144:VAL:HG13	2.37	0.59
1:A:327:GLN:HB3	1:A:330:GLU:CD	2.23	0.59
1:A:339:MET:O	1:A:342:MET:HB2	2.03	0.59
1:A:490:GLN:HG2	1:A:586:TYR:CD2	2.37	0.59
1:E:357:SER:HA	1:E:360:LEU:HD12	1.85	0.59
1:G:61:LEU:CD1	1:G:63:GLU:HB3	2.33	0.59
1:G:226:GLN:HG2	1:G:338:ALA:HA	1.83	0.59
1:G:285:ARG:HB3	1:G:291:TYR:OH	2.02	0.59
1:G:298:SER:H	1:G:301:MET:CG	2.05	0.59
1:G:481:CYS:HA	1:G:484:TYR:HB3	1.84	0.59
1:A:819:LEU:HD12	1:A:820:GLY:N	2.17	0.59
1:C:614:ASN:OD1	1:C:628:VAL:CG1	2.50	0.59
1:E:419:THR:O	1:E:423:ALA:HB2	2.02	0.59
1:E:510:ILE:CD1	1:E:512:TRP:HB2	2.32	0.59
1:E:819:LEU:HG	1:E:820:GLY:H	1.68	0.59
1:G:403:LEU:O	1:G:405:PRO:HD3	2.03	0.59
1:A:56:GLU:HG3	1:A:71:SER:HA	1.84	0.59
2:B:50:VAL:HG12	2:B:72:MET:HG2	1.84	0.59
1:C:242:ASN:CB	1:C:245:SER:HB2	2.27	0.59
1:C:510:ILE:CD1	1:C:512:TRP:HB2	2.32	0.59
2:F:89:VAL:HG23	2:F:90:GLU:N	2.18	0.59
1:G:265:ALA:N	1:G:450:LEU:O	2.33	0.59
1:G:278:ILE:HG21	1:G:432:LYS:NZ	2.18	0.59
1:G:801:ALA:HA	1:G:804:ARG:HD2	1.83	0.59
1:A:419:THR:O	1:A:423:ALA:HB2	2.03	0.59
2:B:12:LYS:CB	2:B:66:PHE:CE2	2.85	0.59
1:C:79:ASN:HD21	1:C:94:CYS:H	1.51	0.59
1:E:242:ASN:CB	1:E:245:SER:HB2	2.27	0.59
1:E:354:ARG:HH11	1:E:354:ARG:CB	2.16	0.59
1:E:403:LEU:O	1:E:405:PRO:HD3	2.03	0.59
1:E:816:GLN:HA	1:E:819:LEU:HD23	1.85	0.59
1:E:819:LEU:HD12	1:E:820:GLY:N	2.18	0.59
2:F:9:ALA:HA	2:F:12:LYS:NZ	2.18	0.59
1:C:61:LEU:CD1	1:C:63:GLU:HB3	2.33	0.59
1:C:481:CYS:HA	1:C:484:TYR:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:517:PHE:HE2	1:C:715:ARG:HB3	1.66	0.59
2:D:85:PHE:O	2:D:89:VAL:HG22	2.03	0.59
1:E:61:LEU:CD1	1:E:63:GLU:HB3	2.33	0.59
2:F:8:THR:O	2:F:11:PHE:HB2	2.02	0.59
1:G:339:MET:O	1:G:342:MET:HB2	2.02	0.59
1:G:596:ALA:HA	1:G:599:THR:OG1	2.03	0.59
2:B:28:TYR:CE2	2:B:62:LYS:HE3	2.38	0.59
1:C:495:HIS:HA	1:C:499:ILE:HD12	1.85	0.59
1:C:801:ALA:HA	1:C:804:ARG:HD2	1.83	0.59
2:F:44:ASN:CB	2:F:117:GLU:OE1	2.48	0.59
1:C:419:THR:O	1:C:423:ALA:HB2	2.02	0.58
2:D:9:ALA:HA	2:D:12:LYS:NZ	2.17	0.58
2:D:51:LEU:O	2:D:54:PRO:CD	2.39	0.58
1:E:285:ARG:HB3	1:E:291:TYR:OH	2.01	0.58
1:A:361:GLN:HE22	1:A:386:LYS:HD3	1.68	0.58
1:A:786:GLU:O	1:A:790:LEU:HD13	2.01	0.58
2:B:89:VAL:HG23	2:B:90:GLU:N	2.17	0.58
1:C:403:LEU:O	1:C:405:PRO:HD3	2.03	0.58
1:E:29:TRP:CD1	1:E:30:SER:N	2.71	0.58
1:E:197:VAL:O	1:E:197:VAL:HG12	2.03	0.58
1:G:29:TRP:CD1	1:G:30:SER:N	2.71	0.58
1:G:120:PHE:H	1:G:120:PHE:HD1	1.49	0.58
1:G:196:VAL:HG12	1:G:217:TYR:HE2	1.68	0.58
1:G:502:GLN:HG3	1:G:512:TRP:NE1	2.17	0.58
1:G:585:HIS:HB2	1:G:588:GLY:O	2.03	0.58
1:C:120:PHE:H	1:C:120:PHE:HD1	1.50	0.58
1:C:196:VAL:HG12	1:C:217:TYR:HE2	1.68	0.58
1:C:354:ARG:HH11	1:C:354:ARG:CB	2.15	0.58
2:D:10:GLU:HA	2:D:13:GLU:HG3	1.85	0.58
1:A:197:VAL:O	1:A:197:VAL:HG12	2.03	0.58
1:A:315:PHE:HE2	1:A:359:VAL:O	1.86	0.58
1:A:357:SER:HA	1:A:360:LEU:HD12	1.84	0.58
1:C:56:GLU:HG3	1:C:71:SER:HA	1.84	0.58
1:C:315:PHE:HE2	1:C:359:VAL:O	1.86	0.58
2:D:89:VAL:HG23	2:D:90:GLU:N	2.18	0.58
1:E:85:LYS:HG2	1:E:106:GLU:HB3	1.86	0.58
1:E:502:GLN:HA	1:E:505:TYR:CD2	2.39	0.58
1:E:777:ARG:HB3	1:E:780:VAL:CG2	2.34	0.58
2:F:65:LYS:CB	2:F:68:GLN:HG3	2.26	0.58
1:G:607:ASP:HB3	1:G:631:ILE:HG22	1.85	0.58
2:H:89:VAL:HG23	2:H:90:GLU:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:585:HIS:HB2	1:C:588:GLY:O	2.03	0.58
1:C:816:GLN:HA	1:C:819:LEU:HD23	1.84	0.58
2:D:51:LEU:C	2:D:54:PRO:HD3	2.21	0.58
1:E:398:PHE:HE1	1:E:402:ILE:HD13	1.66	0.58
1:E:485:THR:CG2	1:E:667:LEU:HD11	2.33	0.58
1:G:419:THR:O	1:G:423:ALA:HB2	2.02	0.58
1:A:398:PHE:HE1	1:A:402:ILE:HD13	1.67	0.58
1:A:819:LEU:HG	1:A:820:GLY:H	1.68	0.58
2:B:8:THR:O	2:B:11:PHE:HB2	2.02	0.58
2:B:9:ALA:HA	2:B:12:LYS:NZ	2.17	0.58
1:E:97:GLU:CD	1:E:706:ARG:HD2	2.24	0.58
1:A:403:LEU:O	1:A:405:PRO:HD3	2.03	0.58
1:C:29:TRP:CD1	1:C:30:SER:N	2.71	0.58
1:C:777:ARG:HB3	1:C:780:VAL:CG2	2.34	0.58
1:E:327:GLN:HB3	1:E:330:GLU:CD	2.22	0.58
2:F:12:LYS:CB	2:F:66:PHE:CE2	2.85	0.58
2:F:40:GLN:NE2	2:F:77:ALA:HA	2.19	0.58
1:G:502:GLN:HA	1:G:505:TYR:CD2	2.39	0.58
1:G:659:VAL:HG12	1:G:660:GLY:N	2.19	0.58
1:G:819:LEU:HG	1:G:820:GLY:H	1.69	0.58
1:A:29:TRP:CD1	1:A:30:SER:N	2.71	0.58
1:A:607:ASP:HB3	1:A:631:ILE:HG22	1.86	0.58
1:C:97:GLU:CD	1:C:706:ARG:HD2	2.24	0.58
1:C:333:GLN:O	1:C:337:GLU:CG	2.46	0.58
1:E:271:LEU:HD23	1:E:271:LEU:N	2.19	0.58
1:E:369:LYS:O	1:E:369:LYS:CG	2.52	0.58
1:E:607:ASP:HB3	1:E:631:ILE:HG22	1.85	0.58
2:F:113:VAL:HG21	2:F:124:VAL:HG21	1.86	0.58
1:G:97:GLU:CD	1:G:706:ARG:HD2	2.24	0.58
1:G:769:ILE:HD11	1:G:774:ILE:HD13	1.86	0.58
1:G:819:LEU:HD12	1:G:820:GLY:N	2.18	0.58
2:H:55:LYS:O	2:H:59:MET:HG2	2.03	0.58
1:A:61:LEU:CD1	1:A:63:GLU:HB3	2.33	0.58
1:A:747:MET:CG	1:G:816:GLN:OE1	2.51	0.58
1:A:754:ILE:HG12	2:H:150:GLY:O	2.04	0.58
1:A:777:ARG:HB3	1:A:780:VAL:CG2	2.34	0.58
2:B:55:LYS:O	2:B:59:MET:HG2	2.04	0.58
1:E:196:VAL:HG12	1:E:217:TYR:HE2	1.68	0.58
1:G:164:MET:HE3	1:G:256:PHE:CE2	2.32	0.58
1:G:283:ASP:H	1:G:318:ASN:ND2	2.02	0.58
1:G:361:GLN:HE22	1:G:386:LYS:HD3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:489:LEU:CD1	1:G:492:LEU:HD23	2.34	0.58
2:H:140:TYR:O	2:H:142:GLU:N	2.37	0.58
1:A:391:MET:HB3	1:A:393:ILE:HG13	1.84	0.58
1:A:489:LEU:CD1	1:A:492:LEU:HD23	2.34	0.58
1:A:747:MET:HG3	1:G:812:PHE:CZ	2.38	0.58
2:B:10:GLU:HA	2:B:13:GLU:HG3	1.86	0.58
2:B:65:LYS:CB	2:B:68:GLN:HG3	2.26	0.58
1:C:502:GLN:HA	1:C:505:TYR:CD2	2.39	0.58
1:C:607:ASP:HB3	1:C:631:ILE:HG22	1.85	0.58
2:D:28:TYR:CE2	2:D:62:LYS:HE3	2.39	0.58
2:D:65:LYS:CB	2:D:68:GLN:HG3	2.26	0.58
1:E:361:GLN:HE22	1:E:386:LYS:HD3	1.68	0.58
2:F:55:LYS:O	2:F:59:MET:HG2	2.03	0.58
2:H:113:VAL:HG21	2:H:124:VAL:HG21	1.86	0.58
1:A:196:VAL:HG12	1:A:217:TYR:HE2	1.68	0.57
1:E:278:ILE:HG21	1:E:432:LYS:NZ	2.19	0.57
1:E:470:GLU:HB2	1:E:472:PHE:CE1	2.39	0.57
1:E:585:HIS:HB2	1:E:588:GLY:O	2.03	0.57
1:E:596:ALA:HA	1:E:599:THR:OG1	2.04	0.57
1:G:286:THR:HB	1:G:290:PHE:HD2	1.69	0.57
2:H:10:GLU:HA	2:H:13:GLU:HG3	1.86	0.57
1:A:502:GLN:HA	1:A:505:TYR:CD2	2.39	0.57
1:C:103:ASN:O	1:C:107:ARG:HG3	2.04	0.57
1:C:596:ALA:HA	1:C:599:THR:OG1	2.04	0.57
1:C:769:ILE:HD11	1:C:774:ILE:HD13	1.86	0.57
1:C:819:LEU:HG	1:C:820:GLY:H	1.70	0.57
1:E:607:ASP:HB3	1:E:631:ILE:CG2	2.34	0.57
1:G:607:ASP:HB3	1:G:631:ILE:CG2	2.34	0.57
2:H:40:GLN:NE2	2:H:77:ALA:HA	2.18	0.57
2:H:131:HIS:CB	2:H:138:ILE:HG23	2.34	0.57
2:B:131:HIS:CB	2:B:138:ILE:HG23	2.34	0.57
1:C:278:ILE:HG21	1:C:432:LYS:NZ	2.19	0.57
1:C:607:ASP:HB3	1:C:631:ILE:CG2	2.34	0.57
2:D:40:GLN:NE2	2:D:77:ALA:HA	2.19	0.57
1:E:286:THR:HB	1:E:290:PHE:HD2	1.69	0.57
1:E:315:PHE:HE2	1:E:359:VAL:O	1.86	0.57
1:E:489:LEU:CD1	1:E:492:LEU:HD23	2.34	0.57
1:E:769:ILE:HD11	1:E:774:ILE:HD13	1.86	0.57
1:G:254:ILE:CG2	1:G:262:ILE:HG12	2.35	0.57
1:G:368:LYS:HZ3	1:G:379:PRO:CG	2.17	0.57
1:G:495:HIS:HA	1:G:499:ILE:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:28:TYR:CE2	2:H:62:LYS:HE3	2.39	0.57
1:C:164:MET:HE1	1:C:256:PHE:CE2	2.38	0.57
2:F:10:GLU:HA	2:F:13:GLU:HG3	1.85	0.57
2:F:28:TYR:CE2	2:F:62:LYS:HE3	2.39	0.57
2:F:131:HIS:CB	2:F:138:ILE:HG23	2.34	0.57
1:G:197:VAL:HG12	1:G:197:VAL:O	2.04	0.57
1:G:357:SER:HA	1:G:360:LEU:HD12	1.86	0.57
1:G:777:ARG:HB3	1:G:780:VAL:CG2	2.34	0.57
1:A:369:LYS:CG	1:A:369:LYS:O	2.52	0.57
1:A:582:CYS:HA	1:A:590:VAL:O	2.04	0.57
1:A:585:HIS:HB2	1:A:588:GLY:O	2.04	0.57
1:C:435:PHE:O	1:C:438:LEU:HB3	2.05	0.57
1:C:582:CYS:HA	1:C:590:VAL:O	2.04	0.57
2:F:140:TYR:O	2:F:142:GLU:N	2.37	0.57
1:G:95:LEU:HD11	1:G:714:ILE:HG21	1.87	0.57
1:G:470:GLU:HB2	1:G:472:PHE:CE1	2.39	0.57
1:A:103:ASN:O	1:A:107:ARG:HG3	2.04	0.57
1:C:254:ILE:CG2	1:C:262:ILE:HG12	2.35	0.57
1:C:610:THR:CG2	1:C:628:VAL:HG21	2.35	0.57
1:C:819:LEU:HD12	1:C:820:GLY:N	2.18	0.57
1:G:271:LEU:N	1:G:271:LEU:HD23	2.20	0.57
1:G:446:VAL:HG13	1:G:450:LEU:HD21	1.86	0.57
1:G:582:CYS:HA	1:G:590:VAL:O	2.05	0.57
2:H:75:THR:HA	2:H:78:LYS:HD3	1.87	0.57
1:A:97:GLU:CD	1:A:706:ARG:HD2	2.24	0.57
1:A:254:ILE:CG2	1:A:262:ILE:HG12	2.35	0.57
1:A:407:ILE:HG22	1:A:408:LYS:N	2.19	0.57
1:A:502:GLN:CG	1:A:512:TRP:HE1	2.17	0.57
2:B:140:TYR:O	2:B:142:GLU:N	2.37	0.57
1:C:475:ASN:ND2	1:C:591:THR:O	2.38	0.57
1:E:475:ASN:ND2	1:E:591:THR:O	2.38	0.57
1:E:610:THR:CG2	1:E:628:VAL:HG21	2.35	0.57
1:G:253:ARG:HG3	1:G:460:PHE:CD1	2.40	0.57
1:G:369:LYS:CG	1:G:369:LYS:O	2.52	0.57
2:H:12:LYS:CB	2:H:66:PHE:CE2	2.85	0.57
1:A:495:HIS:HA	1:A:499:ILE:HD12	1.86	0.57
1:C:95:LEU:HD11	1:C:714:ILE:HG21	1.87	0.57
1:C:659:VAL:HG12	1:C:660:GLY:N	2.19	0.57
2:D:12:LYS:CB	2:D:66:PHE:CE2	2.85	0.57
1:E:254:ILE:CG2	1:E:262:ILE:HG12	2.35	0.57
1:E:819:LEU:HG	1:E:820:GLY:N	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:70:LEU:HB3	2:F:71:PRO:HD3	1.87	0.57
2:H:51:LEU:C	2:H:54:PRO:HD3	2.21	0.57
1:A:713:GLY:HA2	1:A:716:ILE:HD12	1.87	0.57
2:D:70:LEU:HB3	2:D:71:PRO:HD3	1.87	0.57
1:G:407:ILE:HG22	1:G:408:LYS:N	2.20	0.57
1:A:485:THR:CG2	1:A:667:LEU:HD11	2.33	0.57
1:A:607:ASP:HB3	1:A:631:ILE:CG2	2.34	0.57
1:C:605:LEU:HD21	1:C:631:ILE:HG23	1.87	0.57
2:D:55:LYS:O	2:D:59:MET:HG2	2.03	0.57
1:E:96:ASN:HB2	1:E:99:SER:H	1.69	0.57
1:G:728:GLN:HA	1:G:728:GLN:HE21	1.70	0.57
2:H:70:LEU:HB3	2:H:71:PRO:HD3	1.87	0.57
1:A:630:ARG:CZ	1:A:656:PHE:HB3	2.35	0.56
1:C:97:GLU:OE2	1:C:706:ARG:HD2	2.05	0.56
1:C:250:LYS:HE2	1:C:465:ASP:CB	2.35	0.56
1:C:757:ILE:HG23	1:C:762:LEU:HB2	1.87	0.56
2:D:9:ALA:HA	2:D:12:LYS:CD	2.35	0.56
1:E:368:LYS:NZ	1:E:379:PRO:CG	2.68	0.56
1:G:315:PHE:HE2	1:G:359:VAL:O	1.86	0.56
1:G:435:PHE:O	1:G:438:LEU:HB3	2.05	0.56
1:A:475:ASN:ND2	1:A:591:THR:O	2.38	0.56
1:A:610:THR:CG2	1:A:628:VAL:HG21	2.35	0.56
1:C:238:LYS:HD3	1:C:285:ARG:HD3	1.87	0.56
2:D:140:TYR:O	2:D:142:GLU:N	2.37	0.56
1:E:13:LEU:HD21	1:E:132:ILE:HB	1.87	0.56
1:G:12:PHE:O	1:G:112:LEU:HD23	2.05	0.56
1:G:610:THR:CG2	1:G:628:VAL:HG21	2.35	0.56
1:G:715:ARG:O	1:G:719:GLN:CB	2.53	0.56
1:G:757:ILE:HG23	1:G:762:LEU:HB2	1.88	0.56
2:H:74:GLN:O	2:H:78:LYS:CG	2.51	0.56
1:A:13:LEU:HD21	1:A:132:ILE:HB	1.87	0.56
1:A:30:SER:HA	1:A:32:LYS:HE2	1.88	0.56
1:A:271:LEU:N	1:A:271:LEU:HD23	2.20	0.56
1:A:596:ALA:HA	1:A:599:THR:OG1	2.05	0.56
1:A:659:VAL:HG12	1:A:660:GLY:N	2.19	0.56
1:A:728:GLN:HG3	1:A:729:GLU:N	2.20	0.56
1:A:743:PRO:HB2	1:G:816:GLN:HB3	1.85	0.56
1:A:769:ILE:HD11	1:A:774:ILE:HD13	1.86	0.56
2:B:75:THR:HA	2:B:78:LYS:HD3	1.88	0.56
2:B:109:ARG:O	2:B:113:VAL:HG23	2.06	0.56
1:C:30:SER:HA	1:C:32:LYS:HE2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:58:THR:HA	1:C:69:THR:OG1	2.05	0.56
1:C:186:ASN:O	1:C:190:VAL:HG23	2.06	0.56
1:C:197:VAL:O	1:C:197:VAL:HG12	2.04	0.56
1:C:234:PHE:CD2	1:C:289:ILE:HG12	2.41	0.56
1:C:358:SER:HA	1:C:390:LEU:HD12	1.88	0.56
1:C:368:LYS:HZ3	1:C:379:PRO:CG	2.18	0.56
1:C:446:VAL:HG13	1:C:450:LEU:HD21	1.87	0.56
1:C:485:THR:CG2	1:C:667:LEU:HD11	2.33	0.56
1:C:489:LEU:CD1	1:C:492:LEU:HD23	2.34	0.56
1:C:815:ARG:O	1:C:818:GLN:HG3	2.06	0.56
1:C:816:GLN:NE2	2:D:17:LEU:CD2	2.68	0.56
1:E:253:ARG:HG3	1:E:460:PHE:CD1	2.41	0.56
1:E:394:ASN:HB3	1:E:397:ASP:HB2	1.87	0.56
2:F:40:GLN:C	2:F:42:PRO:HD3	2.25	0.56
2:F:109:ARG:O	2:F:113:VAL:HG23	2.05	0.56
1:G:97:GLU:OE2	1:G:706:ARG:HD2	2.05	0.56
1:G:103:ASN:O	1:G:107:ARG:HG3	2.04	0.56
1:G:279:ARG:NH2	1:G:428:GLU:HG3	2.21	0.56
1:G:817:GLN:CD	1:G:818:GLN:N	2.59	0.56
2:H:50:VAL:HG12	2:H:72:MET:HG2	1.87	0.56
1:A:308:GLU:N	1:A:313:TYR:OH	2.33	0.56
1:A:394:ASN:HB3	1:A:397:ASP:HB2	1.86	0.56
1:A:446:VAL:HG13	1:A:450:LEU:HD21	1.87	0.56
1:C:407:ILE:HG22	1:C:408:LYS:N	2.20	0.56
1:C:470:GLU:HB2	1:C:472:PHE:CE1	2.39	0.56
1:C:715:ARG:O	1:C:719:GLN:CB	2.53	0.56
2:D:40:GLN:C	2:D:42:PRO:HD3	2.26	0.56
2:D:65:LYS:H	2:D:68:GLN:NE2	2.03	0.56
1:E:95:LEU:HD11	1:E:714:ILE:HG21	1.87	0.56
1:G:394:ASN:HB3	1:G:397:ASP:HB2	1.86	0.56
1:G:815:ARG:O	1:G:818:GLN:HG3	2.06	0.56
1:A:58:THR:HA	1:A:69:THR:OG1	2.06	0.56
1:A:286:THR:HB	1:A:290:PHE:HD2	1.69	0.56
2:B:113:VAL:HG21	2:B:124:VAL:HG21	1.86	0.56
1:C:271:LEU:N	1:C:271:LEU:HD23	2.20	0.56
1:C:285:ARG:HB3	1:C:291:TYR:CZ	2.41	0.56
1:C:369:LYS:CG	1:C:369:LYS:O	2.52	0.56
1:C:728:GLN:HA	1:C:728:GLN:HE21	1.70	0.56
2:D:75:THR:HA	2:D:78:LYS:HD3	1.87	0.56
1:E:103:ASN:O	1:E:107:ARG:HG3	2.05	0.56
1:E:446:VAL:HG13	1:E:450:LEU:HD21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:713:GLY:HA2	1:E:716:ILE:HD12	1.87	0.56
1:E:815:ARG:O	1:E:818:GLN:HG3	2.06	0.56
1:G:287:PHE:CD1	1:G:287:PHE:N	2.73	0.56
1:A:238:LYS:HD3	1:A:285:ARG:HD3	1.87	0.56
1:A:278:ILE:HG21	1:A:432:LYS:NZ	2.20	0.56
1:A:819:LEU:HG	1:A:820:GLY:N	2.21	0.56
1:C:95:LEU:HD12	1:C:718:ARG:HE	1.70	0.56
1:C:357:SER:HA	1:C:360:LEU:HD12	1.86	0.56
1:E:58:THR:HA	1:E:69:THR:OG1	2.05	0.56
1:E:279:ARG:NH2	1:E:428:GLU:HG3	2.21	0.56
1:E:407:ILE:HG22	1:E:408:LYS:N	2.19	0.56
1:E:522:GLN:HA	1:E:522:GLN:OE1	2.06	0.56
1:G:58:THR:HA	1:G:69:THR:OG1	2.05	0.56
1:G:475:ASN:ND2	1:G:591:THR:O	2.38	0.56
1:G:533:ASN:O	1:G:534:PRO:C	2.44	0.56
2:H:40:GLN:C	2:H:42:PRO:HD3	2.26	0.56
1:A:605:LEU:HD21	1:A:631:ILE:HG23	1.87	0.56
1:A:712:GLU:CD	1:A:712:GLU:H	2.08	0.56
1:A:728:GLN:HE21	1:A:728:GLN:HA	1.70	0.56
2:B:65:LYS:H	2:B:68:GLN:NE2	2.03	0.56
1:C:279:ARG:NH2	1:C:428:GLU:HG3	2.21	0.56
1:C:328:ASP:HA	1:C:331:MET:CB	2.28	0.56
2:D:131:HIS:CB	2:D:138:ILE:HG23	2.34	0.56
1:E:97:GLU:OE2	1:E:706:ARG:HD2	2.05	0.56
1:E:120:PHE:H	1:E:120:PHE:HD1	1.48	0.56
1:E:582:CYS:HA	1:E:590:VAL:O	2.05	0.56
1:E:605:LEU:HD21	1:E:631:ILE:HG23	1.87	0.56
1:E:630:ARG:CZ	1:E:656:PHE:HB3	2.35	0.56
1:E:715:ARG:O	1:E:719:GLN:CB	2.53	0.56
1:G:95:LEU:HD12	1:G:718:ARG:HE	1.70	0.56
1:A:57:VAL:O	1:A:69:THR:HG23	2.06	0.56
1:A:502:GLN:HG3	1:A:512:TRP:NE1	2.17	0.56
1:A:728:GLN:HE21	1:A:728:GLN:CA	2.19	0.56
1:A:757:ILE:HG23	1:A:762:LEU:HB2	1.87	0.56
1:C:79:ASN:ND2	1:C:94:CYS:H	2.04	0.56
1:C:283:ASP:H	1:C:318:ASN:ND2	2.02	0.56
1:C:286:THR:HB	1:C:290:PHE:HD2	1.69	0.56
1:C:293:LEU:HD11	1:C:301:MET:HE1	1.88	0.56
1:C:609:VAL:O	1:C:612:LEU:HB3	2.06	0.56
1:E:57:VAL:O	1:E:69:THR:HG23	2.06	0.56
1:E:713:GLY:HA2	1:E:716:ILE:CD1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:36:TRP:NE1	1:G:78:MET:HA	2.21	0.56
1:G:57:VAL:O	1:G:69:THR:HG23	2.06	0.56
1:G:285:ARG:HB3	1:G:291:TYR:CZ	2.41	0.56
1:G:547:PHE:CE2	1:G:549:LYS:HB3	2.32	0.56
1:G:819:LEU:HG	1:G:820:GLY:N	2.21	0.56
1:A:96:ASN:HB2	1:A:99:SER:H	1.71	0.56
1:A:234:PHE:CD2	1:A:289:ILE:HG12	2.41	0.56
1:A:736:ILE:HG23	1:A:737:LEU:HD23	1.88	0.56
1:C:26:GLN:O	1:C:29:TRP:HB3	2.06	0.56
1:C:253:ARG:HG3	1:C:460:PHE:CD1	2.40	0.56
1:C:712:GLU:CD	1:C:712:GLU:H	2.08	0.56
1:C:817:GLN:CD	1:C:818:GLN:N	2.59	0.56
1:E:186:ASN:O	1:E:190:VAL:HG23	2.06	0.56
1:E:659:VAL:HG12	1:E:660:GLY:N	2.20	0.56
1:E:712:GLU:H	1:E:712:GLU:CD	2.08	0.56
2:F:9:ALA:HA	2:F:12:LYS:CD	2.35	0.56
2:F:41:ASN:N	2:F:42:PRO:HD3	2.20	0.56
1:G:368:LYS:NZ	1:G:379:PRO:CG	2.68	0.56
1:G:485:THR:CG2	1:G:667:LEU:HD11	2.33	0.56
1:G:609:VAL:O	1:G:612:LEU:HB3	2.06	0.56
1:G:728:GLN:HG3	1:G:729:GLU:N	2.20	0.56
1:A:58:THR:HA	1:A:69:THR:HG23	1.86	0.56
1:A:285:ARG:HB3	1:A:291:TYR:CZ	2.41	0.56
1:A:470:GLU:HB2	1:A:472:PHE:CE1	2.39	0.56
1:A:663:TYR:CZ	1:A:667:LEU:HD13	2.41	0.56
2:B:74:GLN:O	2:B:78:LYS:CG	2.51	0.56
1:C:56:GLU:HA	1:C:71:SER:HA	1.89	0.56
2:D:46:GLU:O	2:D:50:VAL:HG23	2.06	0.56
2:D:50:VAL:HG12	2:D:72:MET:HG2	1.87	0.56
2:D:109:ARG:O	2:D:113:VAL:HG23	2.06	0.56
2:D:113:VAL:HG21	2:D:124:VAL:HG21	1.86	0.56
1:E:95:LEU:HD12	1:E:718:ARG:HE	1.70	0.56
1:E:130:LEU:N	1:E:130:LEU:HD23	2.21	0.56
1:E:308:GLU:N	1:E:313:TYR:OH	2.31	0.56
2:F:75:THR:HA	2:F:78:LYS:HD3	1.87	0.56
1:G:58:THR:HA	1:G:69:THR:HG23	1.87	0.56
1:G:605:LEU:HD21	1:G:631:ILE:HG23	1.87	0.56
2:H:9:ALA:HA	2:H:12:LYS:NZ	2.19	0.56
2:H:109:ARG:O	2:H:113:VAL:HG23	2.06	0.56
1:A:186:ASN:O	1:A:190:VAL:HG23	2.06	0.55
1:A:250:LYS:HE2	1:A:465:ASP:CB	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:279:ARG:NH2	1:A:428:GLU:HG3	2.21	0.55
1:C:394:ASN:HB3	1:C:397:ASP:HB2	1.86	0.55
1:C:736:ILE:HG23	1:C:737:LEU:HD23	1.88	0.55
2:D:41:ASN:N	2:D:42:PRO:HD3	2.20	0.55
1:E:36:TRP:NE1	1:E:78:MET:HA	2.21	0.55
1:E:58:THR:HA	1:E:69:THR:HG23	1.87	0.55
1:E:435:PHE:O	1:E:438:LEU:HB3	2.05	0.55
2:F:74:GLN:O	2:F:78:LYS:CG	2.51	0.55
1:G:52:GLU:HA	1:G:57:VAL:HG22	1.88	0.55
1:G:163:SER:O	1:G:167:ASP:OD1	2.24	0.55
1:G:712:GLU:H	1:G:712:GLU:CD	2.08	0.55
2:H:41:ASN:N	2:H:42:PRO:HD3	2.21	0.55
1:A:283:ASP:H	1:A:318:ASN:ND2	2.04	0.55
1:A:715:ARG:O	1:A:719:GLN:CB	2.54	0.55
1:C:57:VAL:O	1:C:69:THR:HG23	2.06	0.55
1:C:293:LEU:HD11	1:C:301:MET:CE	2.37	0.55
1:C:819:LEU:HG	1:C:820:GLY:N	2.21	0.55
1:E:285:ARG:HB3	1:E:291:TYR:CZ	2.41	0.55
1:E:817:GLN:CD	1:E:818:GLN:N	2.59	0.55
2:F:46:GLU:O	2:F:50:VAL:HG23	2.06	0.55
2:F:65:LYS:H	2:F:68:GLN:NE2	2.03	0.55
1:G:164:MET:HE1	1:G:256:PHE:CE2	2.41	0.55
1:G:234:PHE:CD2	1:G:289:ILE:HG12	2.40	0.55
1:A:253:ARG:HG3	1:A:460:PHE:CD1	2.40	0.55
2:B:41:ASN:N	2:B:42:PRO:CD	2.69	0.55
1:C:522:GLN:OE1	1:C:522:GLN:HA	2.06	0.55
1:C:728:GLN:HG3	1:C:729:GLU:N	2.20	0.55
1:E:30:SER:HA	1:E:32:LYS:HE2	1.88	0.55
1:E:234:PHE:CD2	1:E:289:ILE:HG12	2.40	0.55
1:E:272:LEU:HD22	1:E:439:PHE:CD2	2.41	0.55
1:E:283:ASP:H	1:E:318:ASN:ND2	2.04	0.55
2:F:50:VAL:HG12	2:F:72:MET:HG2	1.87	0.55
1:G:30:SER:HA	1:G:32:LYS:HE2	1.88	0.55
1:G:96:ASN:HB2	1:G:99:SER:H	1.71	0.55
1:G:469:PHE:CE1	1:G:587:ALA:HB3	2.42	0.55
1:A:97:GLU:OE2	1:A:706:ARG:HD2	2.05	0.55
1:A:435:PHE:O	1:A:438:LEU:HB3	2.05	0.55
1:A:609:VAL:HG23	1:A:612:LEU:CD2	2.37	0.55
1:C:187:THR:HG23	1:C:463:ILE:HG22	1.88	0.55
1:C:305:LEU:CD2	1:C:354:ARG:HB3	2.37	0.55
1:E:315:PHE:CE2	1:E:359:VAL:O	2.60	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:421:GLU:HB2	1:E:422:GLN:HE21	1.71	0.55
1:E:728:GLN:HG3	1:E:729:GLU:N	2.20	0.55
1:G:250:LYS:HE2	1:G:465:ASP:CB	2.35	0.55
1:G:609:VAL:HG23	1:G:612:LEU:CD2	2.37	0.55
1:G:630:ARG:CZ	1:G:656:PHE:HB3	2.36	0.55
2:H:87:ASP:O	2:H:90:GLU:HB3	2.07	0.55
1:A:491:GLN:OE1	1:A:521:LEU:HG	2.07	0.55
1:A:745:GLY:CA	1:G:816:GLN:NE2	2.69	0.55
2:B:9:ALA:HA	2:B:12:LYS:CD	2.36	0.55
1:C:58:THR:HA	1:C:69:THR:HG23	1.86	0.55
1:C:421:GLU:HB2	1:C:422:GLN:HE21	1.71	0.55
1:E:187:THR:HG23	1:E:463:ILE:HG22	1.87	0.55
1:E:736:ILE:HG23	1:E:737:LEU:HD23	1.88	0.55
2:F:69:PHE:CE1	2:F:73:MET:HG2	2.41	0.55
1:G:223:GLN:O	1:G:226:GLN:N	2.37	0.55
1:G:305:LEU:CD2	1:G:354:ARG:HB3	2.37	0.55
1:G:358:SER:HA	1:G:390:LEU:HD12	1.88	0.55
2:H:12:LYS:HB3	2:H:66:PHE:CD2	2.42	0.55
1:A:293:LEU:HD11	1:A:301:MET:CE	2.37	0.55
2:B:70:LEU:HB3	2:B:71:PRO:HD3	1.88	0.55
1:C:272:LEU:HD22	1:C:439:PHE:CD2	2.41	0.55
1:C:630:ARG:CZ	1:C:656:PHE:HB3	2.36	0.55
1:E:728:GLN:HA	1:E:728:GLN:HE21	1.70	0.55
1:G:272:LEU:HD22	1:G:439:PHE:CD2	2.41	0.55
1:G:315:PHE:CE2	1:G:359:VAL:O	2.60	0.55
1:G:421:GLU:HB2	1:G:422:GLN:HE21	1.71	0.55
1:A:26:GLN:O	1:A:29:TRP:HB3	2.06	0.55
1:A:269:THR:HB	1:A:443:LEU:CD1	2.37	0.55
1:A:358:SER:HA	1:A:390:LEU:HD12	1.87	0.55
1:A:421:GLU:HB2	1:A:422:GLN:HE21	1.71	0.55
1:A:607:ASP:CA	1:A:610:THR:HB	2.37	0.55
1:A:817:GLN:CD	1:A:818:GLN:N	2.60	0.55
2:D:18:PHE:CE2	2:D:34:VAL:HA	2.42	0.55
1:E:238:LYS:HD3	1:E:285:ARG:HD3	1.87	0.55
1:E:469:PHE:CE1	1:E:587:ALA:HB3	2.42	0.55
1:E:502:GLN:HA	1:E:505:TYR:HD2	1.72	0.55
1:E:533:ASN:O	1:E:534:PRO:C	2.43	0.55
2:F:65:LYS:HB2	2:F:68:GLN:CG	2.30	0.55
1:G:130:LEU:N	1:G:130:LEU:HD23	2.22	0.55
1:G:713:GLY:HA2	1:G:716:ILE:HD12	1.88	0.55
2:H:46:GLU:O	2:H:50:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:36:TRP:NE1	1:A:78:MET:HA	2.21	0.55
1:A:236:ASN:ND2	1:A:246:SER:HA	2.21	0.55
1:A:333:GLN:O	1:A:337:GLU:CG	2.47	0.55
1:A:437:ARG:HB3	1:A:624:LEU:HD23	1.89	0.55
1:C:12:PHE:CD2	1:C:131:PRO:HD2	2.42	0.55
1:C:36:TRP:NE1	1:C:78:MET:HA	2.21	0.55
1:C:313:TYR:CE2	1:C:360:LEU:HB3	2.42	0.55
1:C:663:TYR:CZ	1:C:667:LEU:HD13	2.41	0.55
1:E:305:LEU:CD2	1:E:354:ARG:HB3	2.37	0.55
1:E:609:VAL:HG23	1:E:612:LEU:CD2	2.37	0.55
2:F:87:ASP:O	2:F:90:GLU:HB3	2.06	0.55
1:G:26:GLN:O	1:G:29:TRP:HB3	2.06	0.55
1:G:64:ASN:C	1:G:66:LYS:H	2.11	0.55
1:G:663:TYR:CZ	1:G:667:LEU:HD13	2.41	0.55
2:B:28:TYR:HB2	2:B:62:LYS:CB	2.36	0.55
1:C:64:ASN:C	1:C:66:LYS:H	2.11	0.55
1:C:728:GLN:HE21	1:C:728:GLN:CA	2.19	0.55
1:E:278:ILE:HG21	1:E:428:GLU:HG2	1.89	0.55
1:E:437:ARG:HB3	1:E:624:LEU:HD23	1.89	0.55
1:G:186:ASN:O	1:G:190:VAL:HG23	2.06	0.55
1:G:238:LYS:HD3	1:G:285:ARG:HD3	1.87	0.55
1:G:313:TYR:CE2	1:G:360:LEU:HB3	2.42	0.55
2:H:4:SER:H	2:H:7:GLN:NE2	2.03	0.55
2:H:18:PHE:CE2	2:H:34:VAL:HA	2.42	0.55
1:A:95:LEU:HD11	1:A:714:ILE:HG21	1.87	0.55
1:A:713:GLY:HA2	1:A:716:ILE:CD1	2.37	0.55
1:C:236:ASN:ND2	1:C:246:SER:HA	2.22	0.55
1:C:735:GLU:HG3	1:C:756:MET:HE1	1.85	0.55
1:E:145:LYS:CG	1:E:146:ARG:N	2.70	0.55
1:E:250:LYS:HE2	1:E:465:ASP:CB	2.36	0.55
1:E:333:GLN:O	1:E:337:GLU:CG	2.46	0.55
1:E:502:GLN:HG3	1:E:512:TRP:NE1	2.17	0.55
1:E:502:GLN:CG	1:E:512:TRP:HE1	2.17	0.55
1:E:663:TYR:CZ	1:E:667:LEU:HD13	2.41	0.55
1:E:793:THR:O	1:E:796:ILE:HB	2.07	0.55
2:F:4:SER:H	2:F:7:GLN:NE2	2.05	0.55
1:G:522:GLN:OE1	1:G:522:GLN:HA	2.06	0.55
1:A:128:LYS:HG2	1:A:129:GLN:H	1.72	0.54
1:A:368:LYS:NZ	1:A:379:PRO:CG	2.69	0.54
1:A:490:GLN:HE21	1:A:494:ASN:ND2	1.88	0.54
1:A:819:LEU:CG	1:A:820:GLY:N	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:278:ILE:HG21	1:C:428:GLU:HG2	1.89	0.54
1:C:308:GLU:N	1:C:313:TYR:OH	2.32	0.54
1:C:609:VAL:HG23	1:C:612:LEU:CD2	2.37	0.54
2:D:69:PHE:CE1	2:D:73:MET:HG2	2.42	0.54
1:E:13:LEU:CD1	1:E:137:ILE:HG23	2.37	0.54
1:E:147:HIS:ND1	1:E:148:GLU:N	2.55	0.54
1:E:328:ASP:HA	1:E:331:MET:CB	2.28	0.54
1:E:728:GLN:HE21	1:E:728:GLN:CA	2.19	0.54
2:F:84:CYS:O	2:F:85:PHE:C	2.45	0.54
1:G:69:THR:O	1:G:70:LEU:HG	2.08	0.54
1:G:328:ASP:HA	1:G:331:MET:CB	2.29	0.54
1:A:56:GLU:HA	1:A:71:SER:HA	1.88	0.54
1:A:815:ARG:O	1:A:818:GLN:HG3	2.06	0.54
1:C:368:LYS:NZ	1:C:379:PRO:CG	2.68	0.54
1:C:502:GLN:HA	1:C:505:TYR:HD2	1.72	0.54
1:C:713:GLY:HA2	1:C:716:ILE:HD12	1.88	0.54
1:E:26:GLN:O	1:E:29:TRP:HB3	2.06	0.54
1:E:52:GLU:HA	1:E:57:VAL:HG22	1.89	0.54
1:E:128:LYS:HG2	1:E:129:GLN:H	1.72	0.54
1:E:491:GLN:OE1	1:E:521:LEU:HG	2.07	0.54
1:E:757:ILE:HG23	1:E:762:LEU:HB2	1.87	0.54
1:G:187:THR:HG23	1:G:463:ILE:HG22	1.88	0.54
1:G:236:ASN:ND2	1:G:246:SER:HA	2.22	0.54
2:H:69:PHE:CE1	2:H:73:MET:HG2	2.41	0.54
1:A:272:LEU:HD22	1:A:439:PHE:CD2	2.41	0.54
1:A:287:PHE:N	1:A:287:PHE:CD1	2.75	0.54
1:A:305:LEU:HD22	1:A:354:ARG:CA	2.37	0.54
2:B:69:PHE:CE1	2:B:73:MET:HG2	2.42	0.54
1:C:23:PRO:O	1:C:27:ALA:HB2	2.08	0.54
1:C:44:PHE:CD1	1:C:98:ALA:HB2	2.43	0.54
1:C:96:ASN:HB2	1:C:99:SER:H	1.71	0.54
1:C:369:LYS:O	1:C:369:LYS:HG3	2.07	0.54
1:C:495:HIS:O	1:C:499:ILE:HB	2.08	0.54
1:E:108:TYR:HE1	1:E:126:PRO:HA	1.72	0.54
1:G:35:VAL:O	1:G:46:ALA:HA	2.07	0.54
1:G:56:GLU:HA	1:G:71:SER:HA	1.88	0.54
1:A:302:ARG:NH1	1:A:302:ARG:HB2	2.23	0.54
1:A:609:VAL:O	1:A:612:LEU:HB3	2.06	0.54
2:B:12:LYS:HB3	2:B:66:PHE:CD2	2.42	0.54
1:C:35:VAL:O	1:C:46:ALA:HA	2.07	0.54
1:C:164:MET:HE1	1:C:256:PHE:HE2	1.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:703:GLU:OE1	1:C:706:ARG:HB2	2.08	0.54
1:E:133:TYR:HB3	1:E:154:TYR:OH	2.08	0.54
1:G:114:TYR:CZ	1:G:153:ILE:HB	2.43	0.54
1:G:125:ASN:HB3	1:G:687:PRO:CD	2.37	0.54
1:G:491:GLN:OE1	1:G:521:LEU:HG	2.07	0.54
1:G:502:GLN:CG	1:G:512:TRP:HE1	2.17	0.54
1:A:35:VAL:O	1:A:46:ALA:HA	2.07	0.54
1:A:109:PHE:HE1	1:A:694:GLY:O	1.90	0.54
1:A:147:HIS:ND1	1:A:148:GLU:N	2.56	0.54
1:A:187:THR:HG23	1:A:463:ILE:HG22	1.88	0.54
1:A:301:MET:HE1	1:A:353:LEU:HD13	1.88	0.54
1:A:796:ILE:O	1:A:800:GLN:HB2	2.08	0.54
2:B:40:GLN:NE2	2:B:77:ALA:HA	2.22	0.54
2:B:65:LYS:HB2	2:B:68:GLN:CG	2.30	0.54
2:B:87:ASP:O	2:B:90:GLU:HB3	2.08	0.54
1:C:223:GLN:O	1:C:226:GLN:N	2.37	0.54
2:D:40:GLN:HE21	2:D:77:ALA:HA	1.72	0.54
2:D:87:ASP:O	2:D:90:GLU:HB3	2.08	0.54
1:E:161:TYR:CZ	1:E:165:LEU:HD11	2.42	0.54
1:E:287:PHE:N	1:E:287:PHE:CD1	2.73	0.54
1:E:418:GLN:HB3	1:E:422:GLN:HB2	1.90	0.54
1:E:812:PHE:CE1	2:F:17:LEU:HD21	2.41	0.54
2:F:18:PHE:CE2	2:F:34:VAL:HA	2.42	0.54
1:G:736:ILE:HG23	1:G:737:LEU:HD23	1.88	0.54
2:H:9:ALA:HA	2:H:12:LYS:CD	2.36	0.54
2:H:17:LEU:HD12	2:H:17:LEU:O	2.08	0.54
1:A:305:LEU:CD2	1:A:354:ARG:HB3	2.37	0.54
2:B:46:GLU:O	2:B:50:VAL:HG23	2.07	0.54
1:C:437:ARG:HB3	1:C:624:LEU:HD23	1.89	0.54
1:C:469:PHE:CE1	1:C:587:ALA:HB3	2.42	0.54
1:C:533:ASN:O	1:C:534:PRO:C	2.44	0.54
1:C:613:LEU:HD13	1:C:625:TRP:CE2	2.43	0.54
2:D:17:LEU:HD12	2:D:17:LEU:O	2.08	0.54
1:E:56:GLU:HA	1:E:71:SER:HA	1.89	0.54
1:E:437:ARG:NE	1:E:625:TRP:HA	2.23	0.54
1:E:489:LEU:HD12	1:E:489:LEU:C	2.28	0.54
1:E:703:GLU:OE1	1:E:706:ARG:HB2	2.08	0.54
1:G:796:ILE:O	1:G:800:GLN:HB2	2.07	0.54
1:A:133:TYR:HB3	1:A:154:TYR:OH	2.08	0.54
1:A:437:ARG:NE	1:A:625:TRP:HA	2.23	0.54
1:A:498:PHE:HD1	1:A:716:ILE:CD1	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:553:THR:O	1:A:555:PHE:N	2.40	0.54
1:C:147:HIS:ND1	1:C:148:GLU:N	2.56	0.54
1:G:278:ILE:HG21	1:G:428:GLU:HG2	1.90	0.54
1:G:301:MET:HE1	1:G:353:LEU:HD13	1.90	0.54
1:G:728:GLN:HE21	1:G:728:GLN:CA	2.19	0.54
1:G:793:THR:O	1:G:796:ILE:HB	2.07	0.54
2:H:97:LYS:HB3	2:H:100:ASN:OD1	2.08	0.54
1:A:130:LEU:N	1:A:130:LEU:HD23	2.22	0.54
1:A:173:ILE:HA	1:A:680:ASN:O	2.08	0.54
1:A:369:LYS:O	1:A:369:LYS:HG3	2.07	0.54
1:A:495:HIS:O	1:A:499:ILE:HB	2.08	0.54
2:B:40:GLN:HE21	2:B:77:ALA:HA	1.73	0.54
2:B:121:GLU:H	2:B:121:GLU:CD	2.11	0.54
1:C:491:GLN:OE1	1:C:521:LEU:HG	2.07	0.54
1:C:793:THR:O	1:C:796:ILE:HB	2.07	0.54
2:D:12:LYS:HB3	2:D:66:PHE:CD2	2.42	0.54
1:E:77:LYS:HD2	1:E:96:ASN:ND2	2.12	0.54
1:E:182:GLY:O	1:E:184:THR:N	2.41	0.54
1:E:495:HIS:O	1:E:499:ILE:HB	2.08	0.54
1:G:133:TYR:HB3	1:G:154:TYR:OH	2.08	0.54
1:G:283:ASP:N	1:G:318:ASN:HD21	2.06	0.54
1:G:323:ILE:CG2	1:G:326:GLN:HB3	2.34	0.54
1:G:365:ILE:HG21	1:G:427:ILE:HD13	1.90	0.54
1:G:369:LYS:O	1:G:369:LYS:HG3	2.07	0.54
1:G:437:ARG:HB3	1:G:624:LEU:HD23	1.89	0.54
1:G:512:TRP:CG	1:G:513:ASN:N	2.76	0.54
1:G:713:GLY:HA2	1:G:716:ILE:CD1	2.37	0.54
2:H:40:GLN:HE21	2:H:77:ALA:HA	1.72	0.54
1:A:228:ASN:N	1:A:229:PRO:CD	2.71	0.54
1:A:313:TYR:CE2	1:A:360:LEU:HB3	2.42	0.54
1:A:315:PHE:CE2	1:A:359:VAL:O	2.60	0.54
1:A:365:ILE:HG21	1:A:427:ILE:HD13	1.90	0.54
1:A:522:GLN:OE1	1:A:522:GLN:HA	2.07	0.54
1:C:76:GLN:HG2	1:C:96:ASN:ND2	2.23	0.54
1:C:130:LEU:HD23	1:C:130:LEU:N	2.23	0.54
1:E:609:VAL:O	1:E:612:LEU:HB3	2.06	0.54
1:E:796:ILE:O	1:E:800:GLN:HB2	2.08	0.54
2:F:12:LYS:HB3	2:F:66:PHE:CD2	2.42	0.54
2:F:40:GLN:HE21	2:F:77:ALA:HA	1.72	0.54
2:F:121:GLU:CD	2:F:121:GLU:H	2.11	0.54
1:A:23:PRO:O	1:A:27:ALA:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:125:ASN:HB3	1:A:687:PRO:CD	2.37	0.54
1:A:276:ARG:O	1:A:280:GLN:HG3	2.08	0.54
2:B:85:PHE:CE1	2:B:145:ARG:HG2	2.43	0.54
1:C:109:PHE:HE1	1:C:694:GLY:O	1.90	0.54
1:E:176:THR:O	1:E:183:LYS:HD3	2.08	0.54
1:E:369:LYS:O	1:E:369:LYS:HG3	2.07	0.54
1:E:819:LEU:CG	1:E:820:GLY:N	2.70	0.54
1:G:145:LYS:CG	1:G:146:ARG:N	2.71	0.54
2:H:65:LYS:H	2:H:68:GLN:NE2	2.04	0.54
1:A:69:THR:O	1:A:70:LEU:HG	2.08	0.53
1:A:79:ASN:ND2	1:A:94:CYS:H	2.04	0.53
1:A:176:THR:O	1:A:183:LYS:HD3	2.08	0.53
1:A:186:ASN:HD22	1:A:186:ASN:N	2.06	0.53
1:A:298:SER:H	1:A:301:MET:CG	2.07	0.53
1:C:69:THR:O	1:C:70:LEU:HG	2.08	0.53
1:C:302:ARG:NH1	1:C:302:ARG:HB2	2.23	0.53
1:C:315:PHE:CE2	1:C:359:VAL:O	2.60	0.53
1:C:365:ILE:HG21	1:C:427:ILE:HD13	1.90	0.53
1:C:796:ILE:O	1:C:800:GLN:HB2	2.08	0.53
1:E:35:VAL:O	1:E:46:ALA:HA	2.07	0.53
1:E:108:TYR:CD2	1:E:696:LEU:HD13	2.43	0.53
1:E:313:TYR:CE2	1:E:360:LEU:HB3	2.42	0.53
1:E:358:SER:HA	1:E:390:LEU:HD12	1.89	0.53
2:F:97:LYS:N	2:F:100:ASN:HD21	2.06	0.53
1:G:108:TYR:HE1	1:G:126:PRO:HA	1.73	0.53
1:G:108:TYR:CD2	1:G:696:LEU:HD13	2.43	0.53
1:G:495:HIS:O	1:G:499:ILE:HB	2.08	0.53
1:G:614:ASN:OD1	1:G:628:VAL:HG12	2.09	0.53
2:H:121:GLU:H	2:H:121:GLU:CD	2.11	0.53
1:A:153:ILE:HG21	1:A:189:LYS:CB	2.39	0.53
1:C:133:TYR:HB3	1:C:154:TYR:OH	2.08	0.53
1:C:145:LYS:CG	1:C:146:ARG:N	2.71	0.53
1:C:161:TYR:CZ	1:C:165:LEU:HD11	2.42	0.53
1:C:279:ARG:HH21	1:C:428:GLU:HG3	1.74	0.53
1:C:337:GLU:O	1:C:340:THR:OG1	2.26	0.53
1:C:498:PHE:HD1	1:C:716:ILE:CD1	2.21	0.53
1:E:173:ILE:HA	1:E:680:ASN:O	2.08	0.53
1:E:302:ARG:HB2	1:E:302:ARG:NH1	2.22	0.53
1:G:23:PRO:O	1:G:27:ALA:HB2	2.08	0.53
1:G:153:ILE:HG21	1:G:189:LYS:CB	2.39	0.53
1:G:276:ARG:O	1:G:280:GLN:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:663:TYR:OH	1:G:667:LEU:HD13	2.09	0.53
1:A:469:PHE:CE1	1:A:587:ALA:HB3	2.43	0.53
1:A:524:CYS:CB	1:A:568:LYS:HG3	2.39	0.53
1:A:793:THR:O	1:A:796:ILE:HB	2.07	0.53
1:C:79:ASN:OD1	1:C:93:THR:OG1	2.26	0.53
1:C:108:TYR:HE1	1:C:126:PRO:HA	1.73	0.53
1:C:297:ALA:HA	1:C:301:MET:SD	2.48	0.53
1:C:502:GLN:HG3	1:C:512:TRP:NE1	2.17	0.53
1:E:307:LEU:HA	1:E:313:TYR:OH	2.08	0.53
1:E:498:PHE:HD1	1:E:716:ILE:CD1	2.21	0.53
1:E:524:CYS:CB	1:E:568:LYS:HG3	2.39	0.53
1:G:109:PHE:HE1	1:G:694:GLY:O	1.91	0.53
1:G:161:TYR:CZ	1:G:165:LEU:HD11	2.43	0.53
1:G:293:LEU:HD11	1:G:301:MET:CE	2.37	0.53
1:G:305:LEU:HD22	1:G:354:ARG:CA	2.38	0.53
1:G:553:THR:O	1:G:555:PHE:N	2.41	0.53
2:H:64:LEU:HD11	2:H:72:MET:HE1	1.90	0.53
1:A:64:ASN:C	1:A:66:LYS:H	2.11	0.53
1:A:573:LYS:CE	1:A:589:LYS:HZ3	2.22	0.53
1:A:809:ARG:NH2	2:B:41:ASN:ND2	2.56	0.53
1:C:52:GLU:HA	1:C:57:VAL:HG22	1.89	0.53
1:C:153:ILE:HG21	1:C:189:LYS:CB	2.39	0.53
1:C:164:MET:HE3	1:C:256:PHE:CE2	2.36	0.53
1:C:274:LYS:C	1:C:276:ARG:H	2.11	0.53
1:C:287:PHE:N	1:C:287:PHE:CD1	2.73	0.53
2:D:25:LYS:HE3	2:D:65:LYS:HZ3	1.72	0.53
2:D:97:LYS:N	2:D:100:ASN:HD21	2.06	0.53
2:D:97:LYS:HB3	2:D:100:ASN:OD1	2.08	0.53
1:E:77:LYS:NZ	1:E:96:ASN:ND2	2.56	0.53
1:E:182:GLY:H	4:E:998:ADP:PB	2.31	0.53
1:E:421:GLU:O	1:E:424:ASP:N	2.42	0.53
1:E:553:THR:O	1:E:555:PHE:N	2.41	0.53
1:G:279:ARG:HH21	1:G:428:GLU:HG3	1.74	0.53
1:G:418:GLN:HB3	1:G:422:GLN:HB2	1.90	0.53
1:G:573:LYS:CE	1:G:589:LYS:HZ3	2.22	0.53
1:A:108:TYR:CD2	1:A:696:LEU:HD13	2.43	0.53
1:A:279:ARG:HH21	1:A:428:GLU:HG3	1.74	0.53
1:A:512:TRP:CG	1:A:513:ASN:N	2.76	0.53
2:B:17:LEU:HD12	2:B:17:LEU:O	2.08	0.53
1:C:128:LYS:HG2	1:C:129:GLN:H	1.73	0.53
1:C:182:GLY:O	1:C:184:THR:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:269:THR:HB	1:C:443:LEU:CD1	2.37	0.53
1:C:305:LEU:HD22	1:C:354:ARG:CA	2.38	0.53
1:C:763:ASP:C	1:C:765:ASN:H	2.12	0.53
2:D:41:ASN:N	2:D:42:PRO:CD	2.72	0.53
1:E:64:ASN:C	1:E:66:LYS:H	2.11	0.53
1:E:274:LYS:C	1:E:276:ARG:H	2.12	0.53
1:E:305:LEU:HD22	1:E:354:ARG:CA	2.38	0.53
1:G:64:ASN:C	1:G:66:LYS:N	2.62	0.53
1:G:173:ILE:HA	1:G:680:ASN:O	2.09	0.53
1:G:703:GLU:OE1	1:G:706:ARG:HB2	2.08	0.53
1:A:223:GLN:O	1:A:226:GLN:N	2.38	0.53
1:A:663:TYR:CZ	1:A:667:LEU:HD22	2.43	0.53
2:B:18:PHE:CE2	2:B:34:VAL:HA	2.44	0.53
1:E:69:THR:O	1:E:70:LEU:HG	2.07	0.53
1:E:236:ASN:ND2	1:E:246:SER:HA	2.23	0.53
1:E:293:LEU:HD11	1:E:301:MET:CE	2.37	0.53
1:E:663:TYR:CZ	1:E:667:LEU:HD22	2.44	0.53
2:F:97:LYS:HB3	2:F:100:ASN:OD1	2.08	0.53
1:G:147:HIS:ND1	1:G:148:GLU:N	2.56	0.53
1:G:176:THR:O	1:G:183:LYS:HD3	2.08	0.53
1:A:108:TYR:HE1	1:A:126:PRO:HA	1.72	0.53
1:A:145:LYS:CG	1:A:146:ARG:N	2.71	0.53
1:A:161:TYR:CZ	1:A:165:LEU:HD11	2.43	0.53
1:A:174:LEU:HD12	1:A:681:PHE:CE1	2.44	0.53
1:A:418:GLN:HB3	1:A:422:GLN:HB2	1.90	0.53
1:A:663:TYR:OH	1:A:667:LEU:HD13	2.08	0.53
1:A:703:GLU:OE1	1:A:706:ARG:HB2	2.08	0.53
1:A:731:ARG:HH12	1:A:752:ALA:HB1	1.74	0.53
2:B:86:GLU:H	2:B:86:GLU:CD	2.12	0.53
1:C:125:ASN:HB3	1:C:687:PRO:CD	2.38	0.53
1:C:174:LEU:HD12	1:C:681:PHE:CE1	2.44	0.53
1:C:176:THR:O	1:C:183:LYS:HD3	2.08	0.53
1:C:512:TRP:CG	1:C:513:ASN:N	2.76	0.53
1:E:512:TRP:CG	1:E:513:ASN:N	2.76	0.53
1:E:613:LEU:HD13	1:E:625:TRP:CE2	2.43	0.53
1:E:663:TYR:OH	1:E:667:LEU:HD13	2.08	0.53
2:F:31:CYS:O	2:F:35:MET:HG3	2.09	0.53
1:G:226:GLN:HA	1:G:229:PRO:HG3	1.90	0.53
1:G:302:ARG:NH1	1:G:302:ARG:HB2	2.23	0.53
1:G:490:GLN:HE21	1:G:494:ASN:ND2	1.87	0.53
1:G:498:PHE:HD1	1:G:716:ILE:CD1	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:524:CYS:CB	1:G:568:LYS:HG3	2.39	0.53
1:A:95:LEU:HD12	1:A:718:ARG:HE	1.73	0.53
2:B:43:THR:O	2:B:47:VAL:HG22	2.08	0.53
1:C:182:GLY:H	4:C:998:ADP:PB	2.32	0.53
1:C:283:ASP:N	1:C:318:ASN:HD21	2.06	0.53
1:C:553:THR:O	1:C:555:PHE:N	2.41	0.53
2:D:121:GLU:H	2:D:121:GLU:CD	2.11	0.53
1:E:109:PHE:HE1	1:E:694:GLY:O	1.91	0.53
1:E:152:HIS:CE1	1:E:154:TYR:CD2	2.97	0.53
1:E:165:LEU:HD21	1:E:260:GLY:CA	2.38	0.53
1:E:301:MET:HE1	1:E:353:LEU:HD13	1.91	0.53
1:E:337:GLU:O	1:E:340:THR:OG1	2.26	0.53
1:G:502:GLN:HA	1:G:505:TYR:HD2	1.73	0.53
1:G:819:LEU:CG	1:G:820:GLY:N	2.71	0.53
1:A:52:GLU:HA	1:A:57:VAL:HG22	1.89	0.53
1:A:163:SER:O	1:A:167:ASP:OD1	2.27	0.53
1:A:226:GLN:HA	1:A:229:PRO:HG3	1.90	0.53
1:A:278:ILE:HG21	1:A:428:GLU:HG2	1.90	0.53
1:A:323:ILE:CG2	1:A:326:GLN:HB3	2.34	0.53
1:A:487:GLU:HG3	1:A:521:LEU:HD13	1.91	0.53
1:A:533:ASN:O	1:A:534:PRO:C	2.45	0.53
1:A:763:ASP:C	1:A:765:ASN:H	2.12	0.53
1:C:108:TYR:CD2	1:C:696:LEU:HD13	2.43	0.53
1:C:418:GLN:HB3	1:C:422:GLN:HB2	1.90	0.53
1:C:713:GLY:HA2	1:C:716:ILE:CD1	2.38	0.53
1:C:735:GLU:OE2	1:C:756:MET:HE1	2.09	0.53
1:E:153:ILE:HG21	1:E:189:LYS:CB	2.39	0.53
1:E:226:GLN:HA	1:E:229:PRO:CG	2.39	0.53
1:E:226:GLN:HA	1:E:229:PRO:HG3	1.90	0.53
1:E:276:ARG:O	1:E:280:GLN:HG3	2.08	0.53
1:E:365:ILE:HG21	1:E:427:ILE:HD13	1.90	0.53
1:E:573:LYS:CE	1:E:589:LYS:HZ3	2.22	0.53
2:F:17:LEU:HD12	2:F:17:LEU:O	2.08	0.53
1:G:31:ALA:C	1:G:33:LYS:H	2.12	0.53
1:G:174:LEU:HD12	1:G:681:PHE:CE1	2.44	0.53
1:G:223:GLN:C	1:G:225:LEU:N	2.62	0.53
1:G:228:ASN:N	1:G:229:PRO:CD	2.72	0.53
1:G:663:TYR:CZ	1:G:667:LEU:HD22	2.43	0.53
1:A:7:SER:N	1:A:10:GLU:OE1	2.42	0.53
1:A:31:ALA:C	1:A:33:LYS:H	2.12	0.53
1:A:307:LEU:HA	1:A:313:TYR:OH	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:51:LEU:C	2:B:53:ASN:H	2.12	0.53
1:C:223:GLN:C	1:C:225:LEU:N	2.62	0.53
2:D:4:SER:H	2:D:7:GLN:NE2	2.05	0.53
1:E:7:SER:N	1:E:10:GLU:OE1	2.42	0.53
1:E:186:ASN:HD22	1:E:186:ASN:N	2.07	0.53
1:E:487:GLU:HG3	1:E:521:LEU:HD13	1.91	0.53
2:F:123:GLU:O	2:F:127:LEU:CB	2.58	0.53
1:G:376:ALA:HB2	1:G:420:LYS:CA	2.27	0.53
1:G:800:GLN:CA	2:H:119:MET:HE2	2.33	0.53
2:H:8:THR:O	2:H:12:LYS:HG2	2.09	0.53
1:A:114:TYR:CZ	1:A:153:ILE:HB	2.43	0.52
1:A:182:GLY:O	1:A:184:THR:N	2.42	0.52
1:A:502:GLN:HA	1:A:505:TYR:HD2	1.73	0.52
1:C:165:LEU:HD21	1:C:260:GLY:CA	2.39	0.52
1:C:323:ILE:CG2	1:C:326:GLN:HB3	2.34	0.52
1:C:496:THR:HA	1:C:500:LEU:HD12	1.91	0.52
1:C:819:LEU:CG	1:C:820:GLY:N	2.72	0.52
2:D:8:THR:O	2:D:12:LYS:HG2	2.09	0.52
1:E:114:TYR:CZ	1:E:153:ILE:HB	2.43	0.52
1:E:614:ASN:OD1	1:E:628:VAL:HG12	2.09	0.52
2:F:41:ASN:N	2:F:42:PRO:CD	2.72	0.52
1:G:297:ALA:HA	1:G:301:MET:SD	2.48	0.52
1:G:421:GLU:O	1:G:424:ASP:N	2.42	0.52
1:G:471:ILE:O	1:G:471:ILE:HG12	2.09	0.52
2:H:31:CYS:O	2:H:35:MET:HG3	2.09	0.52
2:H:69:PHE:HE1	2:H:73:MET:HG2	1.74	0.52
2:B:4:SER:H	2:B:7:GLN:NE2	2.06	0.52
1:C:12:PHE:CD1	1:C:111:GLY:HA3	2.44	0.52
1:C:173:ILE:HA	1:C:680:ASN:O	2.09	0.52
1:C:731:ARG:HH12	1:C:752:ALA:HB1	1.74	0.52
2:D:31:CYS:O	2:D:35:MET:HG3	2.09	0.52
2:D:85:PHE:HE1	2:D:145:ARG:HG3	1.74	0.52
2:D:140:TYR:C	2:D:142:GLU:N	2.63	0.52
1:E:23:PRO:O	1:E:27:ALA:HB2	2.08	0.52
1:E:64:ASN:C	1:E:66:LYS:N	2.62	0.52
1:E:228:ASN:N	1:E:229:PRO:CD	2.72	0.52
1:E:272:LEU:HD23	1:E:436:GLU:CG	2.40	0.52
1:G:37:VAL:CB	1:G:38:PRO:HD2	2.39	0.52
1:G:83:PHE:CZ	1:G:93:THR:HG23	2.45	0.52
1:G:128:LYS:HG2	1:G:129:GLN:H	1.73	0.52
1:G:272:LEU:HD23	1:G:436:GLU:CG	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:437:ARG:NE	1:G:625:TRP:HA	2.24	0.52
2:H:123:GLU:O	2:H:127:LEU:CB	2.57	0.52
1:A:223:GLN:C	1:A:225:LEU:N	2.62	0.52
1:A:547:PHE:CE1	1:A:549:LYS:HB3	2.32	0.52
2:B:97:LYS:HB3	2:B:100:ASN:OD1	2.08	0.52
1:C:64:ASN:C	1:C:66:LYS:N	2.62	0.52
1:C:276:ARG:O	1:C:280:GLN:HG3	2.09	0.52
1:C:471:ILE:O	1:C:471:ILE:HG12	2.09	0.52
1:E:125:ASN:HB3	1:E:687:PRO:CD	2.37	0.52
1:E:269:THR:HB	1:E:443:LEU:CD1	2.37	0.52
1:E:464:LEU:HD21	1:E:466:ILE:CG2	2.40	0.52
1:G:120:PHE:CD1	1:G:120:PHE:N	2.71	0.52
1:G:120:PHE:CZ	1:G:713:GLY:HA3	2.44	0.52
1:G:243:ASP:OD1	1:G:324:PRO:HD2	2.10	0.52
1:G:274:LYS:C	1:G:276:ARG:H	2.12	0.52
1:G:607:ASP:CA	1:G:610:THR:HB	2.37	0.52
1:G:763:ASP:C	1:G:765:ASN:H	2.12	0.52
2:H:4:SER:O	2:H:8:THR:CB	2.58	0.52
1:A:425:PHE:O	1:A:425:PHE:CD1	2.63	0.52
2:B:31:CYS:O	2:B:35:MET:HG3	2.10	0.52
2:B:97:LYS:N	2:B:100:ASN:HD21	2.07	0.52
1:C:8:ASP:OD1	1:C:8:ASP:N	2.42	0.52
1:C:226:GLN:HA	1:C:229:PRO:CG	2.40	0.52
1:C:228:ASN:N	1:C:229:PRO:CD	2.72	0.52
1:C:815:ARG:O	1:C:818:GLN:CG	2.58	0.52
1:E:323:ILE:CG2	1:E:326:GLN:HB3	2.34	0.52
1:E:425:PHE:O	1:E:425:PHE:CD1	2.63	0.52
2:F:8:THR:O	2:F:12:LYS:HG2	2.09	0.52
2:F:28:TYR:HB2	2:F:62:LYS:CB	2.37	0.52
1:G:306:LEU:HD13	1:G:386:LYS:HG2	1.92	0.52
2:H:50:VAL:HG11	2:H:72:MET:HG2	1.91	0.52
1:A:37:VAL:CB	1:A:38:PRO:HD2	2.40	0.52
1:A:272:LEU:HD23	1:A:436:GLU:CG	2.39	0.52
1:A:328:ASP:HA	1:A:331:MET:CB	2.28	0.52
1:A:673:THR:O	1:A:677:THR:HG23	2.10	0.52
2:B:4:SER:O	2:B:8:THR:CB	2.58	0.52
1:C:498:PHE:CD1	1:C:716:ILE:CD1	2.93	0.52
1:C:552:ASP:HB3	1:C:595:SER:HA	1.92	0.52
1:E:7:SER:O	1:E:11:LYS:HG3	2.10	0.52
1:G:149:MET:SD	1:G:150:PRO:HD2	2.50	0.52
1:G:226:GLN:HA	1:G:229:PRO:CG	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:498:PHE:CD1	1:G:716:ILE:CD1	2.93	0.52
1:G:673:THR:O	1:G:677:THR:HG23	2.10	0.52
1:G:731:ARG:HH12	1:G:752:ALA:HB1	1.74	0.52
1:A:7:SER:O	1:A:11:LYS:HG3	2.10	0.52
1:A:165:LEU:HD21	1:A:260:GLY:CA	2.39	0.52
1:A:337:GLU:O	1:A:340:THR:OG1	2.26	0.52
1:A:614:ASN:OD1	1:A:628:VAL:HG12	2.09	0.52
1:A:747:MET:HE1	1:G:812:PHE:CZ	2.45	0.52
2:B:69:PHE:HE1	2:B:73:MET:HG2	1.75	0.52
1:C:524:CYS:CB	1:C:568:LYS:HG3	2.38	0.52
1:C:614:ASN:OD1	1:C:628:VAL:HG12	2.09	0.52
1:E:37:VAL:CB	1:E:38:PRO:HD2	2.39	0.52
1:E:607:ASP:CA	1:E:610:THR:HB	2.37	0.52
1:E:735:GLU:CG	1:E:756:MET:HE1	2.38	0.52
2:F:69:PHE:HE1	2:F:73:MET:HG2	1.74	0.52
1:G:127:TYR:HB3	1:G:693:ALA:HB2	1.92	0.52
1:G:464:LEU:HD21	1:G:466:ILE:CG2	2.39	0.52
2:H:55:LYS:HB3	2:H:57:ASP:OD1	2.09	0.52
1:A:152:HIS:CE1	1:A:154:TYR:CD2	2.98	0.52
1:A:226:GLN:HA	1:A:229:PRO:CG	2.39	0.52
1:A:243:ASP:OD1	1:A:324:PRO:HD2	2.10	0.52
1:A:464:LEU:HD21	1:A:466:ILE:CG2	2.40	0.52
1:A:792:ILE:O	1:A:796:ILE:HG12	2.10	0.52
2:B:85:PHE:HE1	2:B:145:ARG:HG2	1.73	0.52
1:C:113:ILE:HG13	1:C:114:TYR:CD1	2.45	0.52
1:C:663:TYR:CZ	1:C:667:LEU:HD22	2.44	0.52
1:C:663:TYR:OH	1:C:667:LEU:HD13	2.08	0.52
2:D:28:TYR:HB2	2:D:62:LYS:CB	2.37	0.52
2:D:123:GLU:O	2:D:127:LEU:CB	2.57	0.52
1:E:223:GLN:O	1:E:226:GLN:N	2.38	0.52
1:E:277:ALA:HA	1:E:286:THR:HG22	1.91	0.52
1:E:279:ARG:HH21	1:E:428:GLU:HG3	1.74	0.52
1:E:490:GLN:HE21	1:E:494:ASN:ND2	1.87	0.52
1:E:670:LEU:O	1:E:673:THR:HG23	2.10	0.52
1:E:731:ARG:NH1	1:E:752:ALA:HB1	2.25	0.52
1:E:815:ARG:O	1:E:818:GLN:CG	2.58	0.52
1:G:7:SER:O	1:G:11:LYS:HG3	2.10	0.52
1:G:152:HIS:CE1	1:G:154:TYR:CD2	2.97	0.52
1:G:186:ASN:HD22	1:G:186:ASN:N	2.08	0.52
1:G:272:LEU:HD22	1:G:439:PHE:CB	2.40	0.52
2:H:97:LYS:N	2:H:100:ASN:HD21	2.06	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:120:PHE:CZ	1:A:713:GLY:HA3	2.45	0.52
1:A:272:LEU:HD22	1:A:439:PHE:CB	2.40	0.52
1:A:496:THR:HA	1:A:500:LEU:HD12	1.91	0.52
1:A:806:TYR:CD1	2:B:147:VAL:HA	2.45	0.52
1:A:819:LEU:HD12	1:A:819:LEU:C	2.30	0.52
2:B:8:THR:O	2:B:12:LYS:HG2	2.10	0.52
1:C:31:ALA:C	1:C:33:LYS:H	2.12	0.52
1:C:127:TYR:HB3	1:C:693:ALA:HB2	1.92	0.52
1:C:272:LEU:HD23	1:C:436:GLU:CG	2.40	0.52
1:C:345:THR:OG1	1:C:348:GLU:HG3	2.10	0.52
1:C:376:ALA:HB2	1:C:420:LYS:CA	2.27	0.52
1:C:581:PHE:CD1	1:C:581:PHE:N	2.78	0.52
1:C:678:ASN:HD22	1:C:679:PRO:HD2	1.75	0.52
1:C:703:GLU:OE1	1:C:703:GLU:O	2.28	0.52
1:E:44:PHE:CD1	1:E:98:ALA:HB2	2.45	0.52
1:E:272:LEU:HD22	1:E:439:PHE:CB	2.39	0.52
2:F:4:SER:O	2:F:8:THR:CB	2.58	0.52
1:G:307:LEU:HA	1:G:313:TYR:OH	2.10	0.52
1:A:64:ASN:C	1:A:66:LYS:N	2.62	0.52
1:A:149:MET:SD	1:A:150:PRO:HD2	2.50	0.52
1:A:277:ALA:HA	1:A:286:THR:HG22	1.91	0.52
1:A:421:GLU:O	1:A:424:ASP:N	2.42	0.52
1:A:471:ILE:O	1:A:471:ILE:HG12	2.09	0.52
2:B:123:GLU:O	2:B:127:LEU:CB	2.58	0.52
1:C:7:SER:N	1:C:10:GLU:OE1	2.42	0.52
1:C:425:PHE:CD1	1:C:425:PHE:O	2.63	0.52
1:C:487:GLU:HG3	1:C:521:LEU:HD13	1.91	0.52
1:C:658:THR:HG23	1:C:661:GLN:H	1.74	0.52
1:C:731:ARG:NH1	1:C:752:ALA:HB1	2.25	0.52
1:C:809:ARG:HD3	2:D:36:ARG:HB3	1.92	0.52
2:F:51:LEU:HB3	2:F:54:PRO:HD2	1.92	0.52
2:F:64:LEU:HD11	2:F:72:MET:HE1	1.92	0.52
1:G:8:ASP:N	1:G:8:ASP:OD1	2.42	0.52
1:G:552:ASP:HB3	1:G:595:SER:HA	1.92	0.52
2:H:41:ASN:N	2:H:42:PRO:CD	2.72	0.52
1:A:8:ASP:OD1	1:A:8:ASP:N	2.42	0.52
1:A:113:ILE:HG13	1:A:114:TYR:CD1	2.45	0.52
1:A:553:THR:C	1:A:557:GLU:OE2	2.49	0.52
1:A:703:GLU:OE1	1:A:703:GLU:O	2.28	0.52
1:A:742:ILE:HD12	1:A:752:ALA:HA	1.91	0.52
1:A:747:MET:SD	1:G:812:PHE:CE2	2.99	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:747:MET:HG3	1:G:816:GLN:OE1	2.09	0.52
2:B:89:VAL:CG2	2:B:90:GLU:N	2.73	0.52
1:C:313:TYR:N	1:C:313:TYR:CD1	2.78	0.52
1:C:657:ARG:HB3	1:C:662:LEU:HD13	1.92	0.52
2:D:74:GLN:O	2:D:78:LYS:CG	2.51	0.52
2:D:89:VAL:CG2	2:D:90:GLU:N	2.73	0.52
1:E:174:LEU:HD12	1:E:681:PHE:CE1	2.44	0.52
1:E:243:ASP:OD1	1:E:324:PRO:HD2	2.09	0.52
1:E:553:THR:C	1:E:557:GLU:OE2	2.48	0.52
1:E:673:THR:O	1:E:677:THR:HG23	2.10	0.52
1:G:313:TYR:N	1:G:313:TYR:CD1	2.78	0.52
1:G:425:PHE:O	1:G:425:PHE:CD1	2.63	0.52
2:H:51:LEU:C	2:H:53:ASN:H	2.14	0.52
2:H:97:LYS:C	2:H:98:GLU:HG3	2.30	0.52
1:A:277:ALA:HA	1:A:286:THR:CG2	2.40	0.51
1:A:283:ASP:N	1:A:318:ASN:HD21	2.07	0.51
1:A:346:GLU:HG2	1:A:347:GLU:H	1.76	0.51
2:B:15:PHE:CE1	2:B:26:ILE:HD13	2.45	0.51
1:C:149:MET:SD	1:C:150:PRO:HD2	2.50	0.51
1:C:272:LEU:HD22	1:C:439:PHE:CB	2.40	0.51
1:C:792:ILE:O	1:C:796:ILE:HG12	2.10	0.51
1:C:819:LEU:HD12	1:C:819:LEU:C	2.31	0.51
2:D:4:SER:O	2:D:8:THR:CB	2.58	0.51
2:D:97:LYS:C	2:D:98:GLU:HG3	2.30	0.51
1:E:163:SER:O	1:E:167:ASP:OD1	2.28	0.51
1:E:297:ALA:HA	1:E:301:MET:SD	2.50	0.51
1:E:658:THR:HG23	1:E:661:GLN:H	1.74	0.51
1:E:763:ASP:C	1:E:765:ASN:H	2.11	0.51
1:G:165:LEU:HD21	1:G:260:GLY:CA	2.39	0.51
1:G:487:GLU:HG3	1:G:521:LEU:HD13	1.91	0.51
1:G:621:VAL:O	1:G:625:TRP:HD1	1.94	0.51
1:G:658:THR:HG23	1:G:661:GLN:H	1.74	0.51
1:G:723:ASN:O	1:G:775:PHE:HA	2.10	0.51
1:G:806:TYR:CD1	2:H:147:VAL:HA	2.45	0.51
1:A:237:ALA:HA	1:A:288:HIS:NE2	2.25	0.51
2:B:34:VAL:O	2:B:38:LEU:HD12	2.11	0.51
2:B:51:LEU:HB3	2:B:54:PRO:HD2	1.90	0.51
1:C:114:TYR:CZ	1:C:153:ILE:HB	2.43	0.51
1:C:152:HIS:CE1	1:C:154:TYR:CD2	2.97	0.51
1:C:277:ALA:HA	1:C:286:THR:CG2	2.40	0.51
1:C:729:GLU:OE1	1:C:729:GLU:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:31:ALA:C	1:E:33:LYS:H	2.12	0.51
1:E:283:ASP:N	1:E:318:ASN:HD21	2.07	0.51
1:E:293:LEU:CD1	1:E:301:MET:HE1	2.39	0.51
1:E:306:LEU:HD13	1:E:386:LYS:HG2	1.92	0.51
1:E:345:THR:OG1	1:E:348:GLU:HG3	2.10	0.51
1:G:496:THR:HA	1:G:500:LEU:HD12	1.91	0.51
1:G:678:ASN:HD22	1:G:679:PRO:HD2	1.74	0.51
1:G:742:ILE:HD12	1:G:752:ALA:HA	1.91	0.51
1:A:700:LEU:HG	1:A:704:GLN:HE21	1.75	0.51
1:A:723:ASN:O	1:A:775:PHE:HA	2.10	0.51
1:A:747:MET:CE	1:G:812:PHE:CE2	2.93	0.51
2:D:34:VAL:O	2:D:38:LEU:HD12	2.10	0.51
1:E:471:ILE:O	1:E:471:ILE:HG12	2.09	0.51
1:G:283:ASP:N	1:G:318:ASN:ND2	2.58	0.51
1:G:337:GLU:O	1:G:340:THR:OG1	2.26	0.51
1:G:505:TYR:HB3	1:G:510:ILE:HD11	1.93	0.51
1:G:703:GLU:OE1	1:G:703:GLU:O	2.28	0.51
1:A:12:PHE:CD1	1:A:111:GLY:HA3	2.46	0.51
1:A:573:LYS:NZ	1:A:589:LYS:HZ3	2.09	0.51
1:A:658:THR:HG23	1:A:661:GLN:H	1.75	0.51
1:C:107:ARG:O	1:C:112:LEU:O	2.29	0.51
1:C:120:PHE:CZ	1:C:713:GLY:HA3	2.44	0.51
1:C:283:ASP:N	1:C:318:ASN:ND2	2.58	0.51
1:C:306:LEU:HD13	1:C:386:LYS:HG2	1.92	0.51
1:C:421:GLU:O	1:C:424:ASP:N	2.42	0.51
1:C:464:LEU:HD21	1:C:466:ILE:CG2	2.40	0.51
1:C:806:TYR:CD1	2:D:147:VAL:HA	2.45	0.51
2:D:135:ASN:N	2:D:135:ASN:ND2	2.58	0.51
1:E:113:ILE:HG13	1:E:114:TYR:CD1	2.45	0.51
1:E:581:PHE:N	1:E:581:PHE:CD1	2.78	0.51
2:F:43:THR:O	2:F:47:VAL:HG22	2.10	0.51
2:F:50:VAL:HG11	2:F:72:MET:HG2	1.91	0.51
1:G:269:THR:HB	1:G:443:LEU:CD1	2.37	0.51
1:G:553:THR:C	1:G:557:GLU:OE2	2.49	0.51
1:A:317:SER:O	1:A:318:ASN:HB2	2.11	0.51
1:A:498:PHE:CD1	1:A:716:ILE:CD1	2.93	0.51
1:A:800:GLN:CA	2:B:119:MET:HE2	2.34	0.51
2:B:140:TYR:C	2:B:142:GLU:N	2.63	0.51
1:C:163:SER:O	1:C:167:ASP:OD1	2.27	0.51
1:C:307:LEU:HA	1:C:313:TYR:OH	2.10	0.51
1:C:346:GLU:HG2	1:C:347:GLU:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:51:LEU:C	2:D:53:ASN:H	2.14	0.51
1:E:149:MET:SD	1:E:150:PRO:HD2	2.50	0.51
1:E:496:THR:HA	1:E:500:LEU:HD12	1.91	0.51
1:E:657:ARG:HB3	1:E:662:LEU:HD13	1.92	0.51
1:E:735:GLU:HG3	1:E:756:MET:CE	2.41	0.51
1:E:792:ILE:O	1:E:796:ILE:HG12	2.10	0.51
1:G:113:ILE:HG13	1:G:114:TYR:CD1	2.45	0.51
1:G:346:GLU:HG2	1:G:347:GLU:H	1.76	0.51
1:G:657:ARG:CB	1:G:657:ARG:HH11	2.24	0.51
1:G:735:GLU:HG3	1:G:756:MET:CE	2.41	0.51
1:A:306:LEU:HD13	1:A:386:LYS:HG2	1.92	0.51
1:A:657:ARG:HB3	1:A:662:LEU:HD13	1.92	0.51
1:A:678:ASN:HD22	1:A:679:PRO:HD2	1.75	0.51
1:A:772:SER:O	1:A:772:SER:OG	2.28	0.51
1:C:7:SER:O	1:C:11:LYS:HG3	2.10	0.51
1:C:114:TYR:HE2	1:C:153:ILE:CB	2.24	0.51
1:C:226:GLN:HA	1:C:229:PRO:HG3	1.91	0.51
1:C:243:ASP:OD1	1:C:324:PRO:HD2	2.10	0.51
1:E:182:GLY:O	1:E:183:LYS:C	2.49	0.51
1:E:373:THR:O	1:E:374:ASP:HB2	2.10	0.51
2:F:34:VAL:O	2:F:38:LEU:HD12	2.10	0.51
2:F:51:LEU:C	2:F:53:ASN:H	2.14	0.51
1:G:819:LEU:HD12	1:G:819:LEU:C	2.31	0.51
2:H:34:VAL:O	2:H:38:LEU:HD12	2.10	0.51
2:H:43:THR:O	2:H:47:VAL:HG22	2.11	0.51
2:H:89:VAL:CG2	2:H:90:GLU:N	2.73	0.51
1:A:345:THR:OG1	1:A:348:GLU:HG3	2.10	0.51
2:B:15:PHE:CD1	2:B:15:PHE:C	2.84	0.51
1:C:37:VAL:CB	1:C:38:PRO:HD2	2.39	0.51
1:C:250:LYS:NZ	1:C:465:ASP:OD2	2.44	0.51
1:C:621:VAL:O	1:C:625:TRP:HD1	1.94	0.51
1:C:742:ILE:HD12	1:C:752:ALA:HA	1.92	0.51
1:E:44:PHE:HB2	1:E:101:LEU:CD2	2.41	0.51
1:E:678:ASN:HD22	1:E:679:PRO:HD2	1.75	0.51
1:E:806:TYR:CD1	2:F:147:VAL:HA	2.46	0.51
2:F:15:PHE:C	2:F:15:PHE:CD1	2.84	0.51
1:G:283:ASP:H	1:G:318:ASN:HD21	1.59	0.51
1:A:731:ARG:NH1	1:A:752:ALA:HB1	2.25	0.51
1:A:747:MET:HG2	1:G:816:GLN:OE1	2.11	0.51
1:A:815:ARG:O	1:A:818:GLN:CG	2.58	0.51
2:B:4:SER:O	2:B:8:THR:OG1	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:135:ASN:N	2:B:135:ASN:ND2	2.59	0.51
1:C:182:GLY:O	1:C:183:LYS:C	2.49	0.51
1:C:186:ASN:HD22	1:C:186:ASN:N	2.08	0.51
1:C:449:ALA:C	1:C:451:ASP:H	2.15	0.51
1:C:553:THR:C	1:C:557:GLU:OE2	2.49	0.51
1:C:723:ASN:O	1:C:775:PHE:HA	2.10	0.51
1:C:800:GLN:CA	2:D:119:MET:HE2	2.33	0.51
1:E:703:GLU:OE1	1:E:703:GLU:O	2.28	0.51
1:E:729:GLU:OE1	1:E:729:GLU:HA	2.10	0.51
2:F:97:LYS:C	2:F:98:GLU:HG3	2.29	0.51
1:G:7:SER:N	1:G:10:GLU:OE1	2.42	0.51
1:G:107:ARG:O	1:G:112:LEU:O	2.29	0.51
1:G:700:LEU:HD21	1:G:704:GLN:NE2	2.26	0.51
1:G:729:GLU:HA	1:G:729:GLU:OE1	2.10	0.51
1:G:731:ARG:NH1	1:G:752:ALA:HB1	2.25	0.51
1:A:20:VAL:C	1:A:22:ASN:H	2.15	0.51
1:A:581:PHE:N	1:A:581:PHE:CD1	2.79	0.51
1:A:700:LEU:HD21	1:A:704:GLN:NE2	2.26	0.51
1:C:317:SER:O	1:C:318:ASN:HB2	2.11	0.51
1:C:373:THR:O	1:C:374:ASP:HB2	2.11	0.51
1:C:607:ASP:CA	1:C:610:THR:HB	2.37	0.51
1:C:673:THR:O	1:C:677:THR:HG23	2.10	0.51
2:D:43:THR:O	2:D:47:VAL:HG22	2.11	0.51
2:D:86:GLU:CD	2:D:86:GLU:H	2.14	0.51
1:E:8:ASP:N	1:E:8:ASP:OD1	2.42	0.51
1:G:255:ASN:O	1:G:263:VAL:HG12	2.11	0.51
1:G:333:GLN:O	1:G:337:GLU:CG	2.46	0.51
1:G:345:THR:OG1	1:G:348:GLU:HG3	2.10	0.51
1:G:792:ILE:O	1:G:796:ILE:HG12	2.10	0.51
1:A:297:ALA:HA	1:A:301:MET:SD	2.51	0.51
1:A:505:TYR:HB3	1:A:510:ILE:HD11	1.93	0.51
2:B:26:ILE:O	2:B:26:ILE:HG22	2.11	0.51
1:C:237:ALA:HA	1:C:288:HIS:NE2	2.26	0.51
1:C:277:ALA:HA	1:C:286:THR:HG22	1.92	0.51
1:C:437:ARG:NE	1:C:625:TRP:HA	2.24	0.51
1:C:502:GLN:CG	1:C:512:TRP:HE1	2.16	0.51
1:C:670:LEU:O	1:C:673:THR:HG23	2.10	0.51
1:C:735:GLU:HG3	1:C:756:MET:CE	2.41	0.51
2:D:15:PHE:C	2:D:15:PHE:CD1	2.84	0.51
2:D:50:VAL:HG11	2:D:72:MET:HG2	1.92	0.51
2:D:127:LEU:HD12	2:D:127:LEU:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:120:PHE:CZ	1:E:713:GLY:HA3	2.46	0.51
1:E:223:GLN:C	1:E:225:LEU:N	2.62	0.51
1:E:346:GLU:HG2	1:E:347:GLU:H	1.76	0.51
1:E:438:LEU:O	1:E:441:TRP:HB3	2.11	0.51
1:E:552:ASP:HB3	1:E:595:SER:HA	1.92	0.51
1:E:742:ILE:HD12	1:E:752:ALA:HA	1.92	0.51
1:E:819:LEU:HD12	1:E:819:LEU:C	2.31	0.51
1:G:123:VAL:O	1:G:123:VAL:CG1	2.56	0.51
1:G:505:TYR:CD1	1:G:510:ILE:HD11	2.46	0.51
1:G:670:LEU:O	1:G:673:THR:HG23	2.10	0.51
1:G:815:ARG:O	1:G:818:GLN:CG	2.58	0.51
2:H:25:LYS:HE3	2:H:65:LYS:HZ1	1.75	0.51
1:A:114:TYR:HE2	1:A:153:ILE:CB	2.24	0.50
1:A:621:VAL:O	1:A:625:TRP:HD1	1.94	0.50
1:A:729:GLU:OE1	1:A:729:GLU:HA	2.11	0.50
1:C:255:ASN:O	1:C:263:VAL:HG12	2.11	0.50
1:C:376:ALA:CB	1:C:420:LYS:HA	2.29	0.50
1:C:397:ASP:HB3	1:C:612:LEU:CD1	2.41	0.50
1:E:44:PHE:CE1	1:E:98:ALA:HB2	2.45	0.50
1:E:277:ALA:HA	1:E:286:THR:CG2	2.40	0.50
1:E:568:LYS:HD3	1:E:584:LEU:O	2.12	0.50
1:E:772:SER:O	1:E:772:SER:OG	2.28	0.50
2:F:127:LEU:HD12	2:F:127:LEU:O	2.11	0.50
1:G:613:LEU:HD13	1:G:625:TRP:CE2	2.46	0.50
1:A:31:ALA:C	1:A:33:LYS:N	2.65	0.50
1:A:79:ASN:ND2	1:A:92:LEU:HB3	2.26	0.50
1:A:107:ARG:O	1:A:112:LEU:O	2.29	0.50
1:A:481:CYS:O	1:A:485:THR:OG1	2.30	0.50
1:C:153:ILE:HG21	1:C:189:LYS:HB3	1.94	0.50
1:C:365:ILE:O	1:C:365:ILE:HG22	2.12	0.50
1:C:393:ILE:HD13	1:C:398:PHE:HB2	1.93	0.50
1:C:505:TYR:CD1	1:C:510:ILE:HD11	2.46	0.50
1:C:700:LEU:HG	1:C:704:GLN:HE21	1.76	0.50
2:D:64:LEU:HD11	2:D:72:MET:HE1	1.93	0.50
1:E:575:LEU:O	1:E:576:LYS:C	2.50	0.50
1:E:621:VAL:O	1:E:625:TRP:HD1	1.93	0.50
1:G:182:GLY:H	4:G:998:ADP:PB	2.34	0.50
1:G:373:THR:O	1:G:374:ASP:HB2	2.11	0.50
1:G:393:ILE:HD13	1:G:398:PHE:HB2	1.93	0.50
2:H:51:LEU:HB3	2:H:54:PRO:HD2	1.91	0.50
2:H:127:LEU:O	2:H:127:LEU:HD12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:127:TYR:HB3	1:A:693:ALA:HB2	1.92	0.50
1:A:182:GLY:O	1:A:183:LYS:C	2.49	0.50
1:A:255:ASN:O	1:A:263:VAL:HG12	2.12	0.50
1:A:293:LEU:CD1	1:A:301:MET:HE1	2.42	0.50
1:A:301:MET:HG3	1:A:302:ARG:N	2.27	0.50
1:A:365:ILE:HG22	1:A:365:ILE:O	2.11	0.50
1:A:438:LEU:O	1:A:441:TRP:HB3	2.11	0.50
1:A:743:PRO:HB3	1:G:816:GLN:HB3	1.91	0.50
1:C:613:LEU:O	1:C:616:SER:HB3	2.12	0.50
2:D:49:LYS:HG3	2:D:50:VAL:N	2.23	0.50
1:E:76:GLN:HG2	1:E:96:ASN:HB3	1.91	0.50
1:E:301:MET:HG3	1:E:302:ARG:N	2.26	0.50
1:E:697:ASP:HB3	1:E:700:LEU:HD22	1.94	0.50
1:E:700:LEU:HG	1:E:704:GLN:HE21	1.76	0.50
2:F:89:VAL:CG2	2:F:90:GLU:N	2.73	0.50
1:G:237:ALA:HA	1:G:288:HIS:NE2	2.26	0.50
1:G:271:LEU:HD21	1:G:663:TYR:CE1	2.47	0.50
1:G:700:LEU:HG	1:G:704:GLN:HE21	1.76	0.50
1:A:61:LEU:HD11	1:A:64:ASN:HB2	1.93	0.50
1:A:228:ASN:N	1:A:229:PRO:HD2	2.26	0.50
1:A:252:ILE:H	1:A:252:ILE:HD12	1.76	0.50
2:B:127:LEU:HD12	2:B:127:LEU:O	2.11	0.50
1:C:271:LEU:HD21	1:C:663:TYR:CE1	2.47	0.50
2:D:65:LYS:HB2	2:D:68:GLN:CG	2.30	0.50
1:E:12:PHE:CB	1:E:132:ILE:HG22	2.41	0.50
1:E:107:ARG:O	1:E:112:LEU:O	2.29	0.50
1:E:505:TYR:CD1	1:E:510:ILE:HD11	2.46	0.50
1:E:700:LEU:HD21	1:E:704:GLN:NE2	2.26	0.50
2:F:64:LEU:HD21	2:F:72:MET:CE	2.42	0.50
1:G:34:LEU:HD22	1:G:46:ALA:HB1	1.94	0.50
1:G:277:ALA:HA	1:G:286:THR:CG2	2.41	0.50
1:G:293:LEU:CD1	1:G:301:MET:HE1	2.40	0.50
1:G:438:LEU:O	1:G:441:TRP:HB3	2.11	0.50
1:G:657:ARG:HB3	1:G:662:LEU:HD13	1.92	0.50
1:A:283:ASP:N	1:A:318:ASN:ND2	2.60	0.50
1:A:313:TYR:N	1:A:313:TYR:CD1	2.79	0.50
1:A:670:LEU:O	1:A:673:THR:HG23	2.10	0.50
1:C:481:CYS:O	1:C:485:THR:OG1	2.30	0.50
2:D:51:LEU:HB3	2:D:54:PRO:HD2	1.91	0.50
2:D:70:LEU:HG	2:D:74:GLN:HE22	1.76	0.50
1:E:34:LEU:HD22	1:E:46:ALA:HB1	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:283:ASP:H	1:E:318:ASN:HD21	1.60	0.50
1:E:613:LEU:O	1:E:616:SER:HB3	2.12	0.50
1:E:731:ARG:HH12	1:E:752:ALA:HB1	1.74	0.50
2:F:26:ILE:O	2:F:26:ILE:HG22	2.12	0.50
2:F:64:LEU:CD2	2:F:68:GLN:HB2	2.40	0.50
1:G:20:VAL:C	1:G:22:ASN:H	2.15	0.50
1:G:53:LYS:HB2	1:G:56:GLU:O	2.11	0.50
1:G:277:ALA:HA	1:G:286:THR:HG22	1.92	0.50
1:G:481:CYS:O	1:G:485:THR:OG1	2.30	0.50
1:G:581:PHE:N	1:G:581:PHE:CD1	2.78	0.50
2:H:15:PHE:CD1	2:H:15:PHE:C	2.84	0.50
1:A:8:ASP:HA	1:A:11:LYS:HD2	1.93	0.50
1:A:120:PHE:CD1	1:A:120:PHE:N	2.71	0.50
1:A:250:LYS:NZ	1:A:465:ASP:OD2	2.44	0.50
1:A:373:THR:O	1:A:374:ASP:HB2	2.10	0.50
2:B:15:PHE:CZ	2:B:26:ILE:HD13	2.47	0.50
2:B:97:LYS:C	2:B:98:GLU:HG3	2.30	0.50
1:E:127:TYR:HB3	1:E:693:ALA:HB2	1.92	0.50
1:E:619:LYS:HA	1:E:622:ALA:HB3	1.94	0.50
1:E:628:VAL:HG23	1:E:631:ILE:HG13	1.93	0.50
1:E:721:PHE:O	1:E:723:ASN:N	2.45	0.50
1:E:733:ARG:HG3	1:E:788:ARG:CD	2.42	0.50
1:G:85:LYS:HG2	1:G:106:GLU:HB3	1.92	0.50
1:G:147:HIS:C	1:G:149:MET:H	2.15	0.50
1:G:153:ILE:HG21	1:G:189:LYS:HB3	1.94	0.50
1:G:238:LYS:HE3	1:G:321:VAL:HG11	1.94	0.50
1:G:613:LEU:O	1:G:616:SER:HB3	2.12	0.50
1:A:12:PHE:O	1:A:112:LEU:HD23	2.11	0.50
1:A:449:ALA:C	1:A:451:ASP:H	2.14	0.50
1:A:733:ARG:HG3	1:A:788:ARG:CD	2.42	0.50
1:A:806:TYR:O	1:A:810:LYS:CG	2.60	0.50
1:C:20:VAL:C	1:C:22:ASN:H	2.15	0.50
1:C:53:LYS:HB2	1:C:56:GLU:O	2.11	0.50
1:C:223:GLN:C	1:C:225:LEU:H	2.15	0.50
2:D:64:LEU:HD21	2:D:72:MET:HE3	1.94	0.50
1:E:397:ASP:HB3	1:E:612:LEU:CD1	2.41	0.50
1:E:481:CYS:O	1:E:485:THR:OG1	2.30	0.50
1:E:575:LEU:HD22	1:E:578:LYS:O	2.12	0.50
1:G:60:GLU:HG2	1:G:66:LYS:O	2.12	0.50
1:G:449:ALA:C	1:G:451:ASP:H	2.15	0.50
1:G:552:ASP:O	1:G:555:PHE:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:135:ASN:N	2:H:135:ASN:ND2	2.58	0.50
1:A:505:TYR:CD1	1:A:510:ILE:HD11	2.46	0.50
2:B:103:VAL:CG1	2:B:104:MET:H	2.22	0.50
1:C:31:ALA:C	1:C:33:LYS:N	2.64	0.50
1:C:227:ALA:C	1:C:229:PRO:HD2	2.32	0.50
1:C:733:ARG:HG3	1:C:788:ARG:CD	2.42	0.50
2:D:69:PHE:HE1	2:D:73:MET:HG2	1.75	0.50
1:E:250:LYS:NZ	1:E:465:ASP:OD2	2.44	0.50
1:E:317:SER:O	1:E:318:ASN:HB2	2.11	0.50
1:E:723:ASN:O	1:E:775:PHE:HA	2.11	0.50
2:F:15:PHE:CE1	2:F:26:ILE:HD13	2.47	0.50
1:G:517:PHE:CE2	1:G:715:ARG:HB3	2.46	0.50
1:A:164:MET:HE1	1:A:256:PHE:CE2	2.47	0.50
1:A:513:ASN:O	1:A:513:ASN:ND2	2.45	0.50
1:A:568:LYS:HD3	1:A:584:LEU:O	2.12	0.50
1:A:613:LEU:O	1:A:616:SER:HB3	2.12	0.50
1:A:743:PRO:CG	1:G:816:GLN:HB3	2.42	0.50
1:C:61:LEU:HD11	1:C:64:ASN:HB2	1.93	0.50
1:C:228:ASN:N	1:C:229:PRO:HD2	2.27	0.50
1:C:416:LYS:CG	1:C:417:ALA:H	2.25	0.50
1:C:657:ARG:CB	1:C:657:ARG:HH11	2.24	0.50
1:E:8:ASP:HA	1:E:11:LYS:HD2	1.93	0.50
1:E:53:LYS:HB2	1:E:56:GLU:O	2.11	0.50
1:E:271:LEU:HD21	1:E:663:TYR:CE1	2.47	0.50
1:E:361:GLN:C	1:E:363:GLY:N	2.66	0.50
1:G:61:LEU:HD11	1:G:64:ASN:HB2	1.93	0.50
1:G:397:ASP:HB3	1:G:612:LEU:CD1	2.42	0.50
1:G:568:LYS:HD3	1:G:584:LEU:O	2.12	0.50
2:H:64:LEU:HD21	2:H:72:MET:CE	2.42	0.50
1:A:60:GLU:HG2	1:A:66:LYS:O	2.12	0.49
1:A:227:ALA:C	1:A:229:PRO:HD2	2.31	0.49
1:A:238:LYS:HE3	1:A:321:VAL:HG11	1.94	0.49
1:A:271:LEU:HD21	1:A:663:TYR:CE1	2.47	0.49
1:C:362:LEU:HD23	1:C:387:VAL:HG21	1.94	0.49
1:C:438:LEU:O	1:C:441:TRP:HB3	2.11	0.49
1:C:504:GLU:OE2	1:C:508:GLU:HG2	2.12	0.49
1:C:806:TYR:O	1:C:810:LYS:CG	2.60	0.49
2:D:70:LEU:C	2:D:74:GLN:NE2	2.66	0.49
1:E:12:PHE:CD2	1:E:131:PRO:CD	2.85	0.49
1:E:147:HIS:C	1:E:149:MET:H	2.15	0.49
1:E:238:LYS:HE3	1:E:321:VAL:HG11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:268:GLU:O	1:E:268:GLU:HG3	2.12	0.49
1:E:313:TYR:N	1:E:313:TYR:CD1	2.80	0.49
1:G:250:LYS:NZ	1:G:465:ASP:OD2	2.44	0.49
1:G:269:THR:CB	1:G:443:LEU:HD13	2.42	0.49
1:G:399:THR:O	1:G:403:LEU:HD12	2.12	0.49
1:G:504:GLU:OE2	1:G:508:GLU:HG2	2.13	0.49
2:H:15:PHE:CE1	2:H:26:ILE:HD13	2.47	0.49
1:A:53:LYS:HB2	1:A:56:GLU:O	2.11	0.49
1:A:393:ILE:HD13	1:A:398:PHE:HB2	1.94	0.49
1:A:735:GLU:HG3	1:A:756:MET:CE	2.41	0.49
2:B:65:LYS:HB2	2:B:68:GLN:HE21	1.78	0.49
1:C:147:HIS:C	1:C:149:MET:H	2.15	0.49
1:C:513:ASN:O	1:C:513:ASN:ND2	2.45	0.49
1:C:700:LEU:HD21	1:C:704:GLN:NE2	2.26	0.49
2:D:15:PHE:CE1	2:D:26:ILE:HD13	2.47	0.49
1:E:61:LEU:HD11	1:E:64:ASN:HB2	1.93	0.49
1:E:255:ASN:O	1:E:263:VAL:HG12	2.11	0.49
1:E:505:TYR:HB3	1:E:510:ILE:HD11	1.93	0.49
1:E:806:TYR:O	1:E:810:LYS:CG	2.60	0.49
2:F:52:GLY:C	2:F:53:ASN:HD22	2.16	0.49
1:G:252:ILE:HD12	1:G:252:ILE:H	1.77	0.49
1:G:618:ASP:CG	1:G:621:VAL:HG23	2.33	0.49
1:G:628:VAL:HG23	1:G:631:ILE:HG13	1.93	0.49
1:A:152:HIS:O	1:A:155:ALA:CB	2.58	0.49
1:A:223:GLN:C	1:A:225:LEU:H	2.15	0.49
1:A:552:ASP:HB3	1:A:595:SER:HA	1.93	0.49
1:A:553:THR:O	1:A:554:SER:C	2.51	0.49
1:A:613:LEU:HD13	1:A:625:TRP:CE2	2.47	0.49
1:C:568:LYS:HD3	1:C:584:LEU:O	2.12	0.49
1:C:575:LEU:HD22	1:C:578:LYS:O	2.12	0.49
1:C:628:VAL:HG23	1:C:631:ILE:HG13	1.93	0.49
1:E:237:ALA:HA	1:E:288:HIS:NE2	2.26	0.49
1:E:269:THR:CB	1:E:443:LEU:HD13	2.42	0.49
1:E:305:LEU:HD22	1:E:354:ARG:CB	2.42	0.49
1:E:399:THR:O	1:E:403:LEU:HD12	2.12	0.49
1:E:713:GLY:CA	1:E:716:ILE:HD12	2.42	0.49
1:A:34:LEU:HD22	1:A:46:ALA:HB1	1.94	0.49
1:A:361:GLN:C	1:A:363:GLY:N	2.66	0.49
1:A:397:ASP:HB3	1:A:612:LEU:CD1	2.42	0.49
1:A:482:ILE:CG2	1:A:483:ASN:N	2.76	0.49
1:A:575:LEU:HD22	1:A:578:LYS:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:64:LEU:HD11	2:B:72:MET:HE1	1.94	0.49
1:C:505:TYR:HB3	1:C:510:ILE:HD11	1.92	0.49
1:C:552:ASP:O	1:C:555:PHE:HB3	2.12	0.49
1:C:799:PHE:CE2	1:C:803:CYS:SG	3.06	0.49
2:D:64:LEU:HD21	2:D:72:MET:CE	2.42	0.49
1:E:20:VAL:C	1:E:22:ASN:H	2.15	0.49
1:E:66:LYS:HE3	1:E:67:LYS:H	1.78	0.49
1:E:376:ALA:HB2	1:E:420:LYS:CA	2.28	0.49
1:E:381:ASN:CB	1:E:385:GLN:HE21	2.25	0.49
1:G:79:ASN:ND2	1:G:92:LEU:HB3	2.27	0.49
1:G:416:LYS:CG	1:G:417:ALA:H	2.25	0.49
1:G:513:ASN:ND2	1:G:513:ASN:O	2.45	0.49
1:G:697:ASP:HB3	1:G:700:LEU:HD22	1.94	0.49
1:G:733:ARG:HG3	1:G:788:ARG:CD	2.42	0.49
1:G:742:ILE:CD1	1:G:752:ALA:HA	2.43	0.49
1:A:269:THR:CB	1:A:443:LEU:HD13	2.41	0.49
1:A:552:ASP:O	1:A:555:PHE:HB3	2.12	0.49
1:C:252:ILE:H	1:C:252:ILE:HD12	1.77	0.49
1:C:305:LEU:HD22	1:C:354:ARG:CB	2.42	0.49
1:E:31:ALA:C	1:E:33:LYS:N	2.64	0.49
1:E:60:GLU:HG2	1:E:66:LYS:O	2.12	0.49
1:E:133:TYR:CE1	1:E:189:LYS:HD2	2.48	0.49
1:E:283:ASP:N	1:E:318:ASN:ND2	2.60	0.49
1:E:398:PHE:O	1:E:398:PHE:CD1	2.66	0.49
1:E:487:GLU:O	1:E:521:LEU:HD12	2.13	0.49
1:E:513:ASN:O	1:E:513:ASN:ND2	2.45	0.49
1:E:630:ARG:HH22	1:E:657:ARG:HB3	1.77	0.49
2:F:64:LEU:HD21	2:F:72:MET:HE3	1.94	0.49
1:G:305:LEU:HD22	1:G:354:ARG:CB	2.42	0.49
1:G:362:LEU:HD23	1:G:387:VAL:HG21	1.94	0.49
1:G:382:THR:HA	1:G:385:GLN:OE1	2.13	0.49
1:G:398:PHE:CD1	1:G:398:PHE:O	2.66	0.49
1:G:772:SER:O	1:G:772:SER:OG	2.28	0.49
2:H:26:ILE:O	2:H:26:ILE:HG22	2.12	0.49
1:A:305:LEU:HD22	1:A:354:ARG:CB	2.42	0.49
1:A:487:GLU:O	1:A:521:LEU:HD12	2.13	0.49
1:A:525:ILE:O	1:A:529:GLU:N	2.46	0.49
1:A:742:ILE:CD1	1:A:752:ALA:HA	2.43	0.49
2:B:25:LYS:HE3	2:B:65:LYS:HZ3	1.76	0.49
1:C:8:ASP:HA	1:C:11:LYS:HD2	1.93	0.49
1:C:34:LEU:HD22	1:C:46:ALA:HB1	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:382:THR:HA	1:C:385:GLN:OE1	2.13	0.49
1:C:476:SER:OG	1:C:478:GLU:OE1	2.29	0.49
2:D:15:PHE:CZ	2:D:26:ILE:HD13	2.48	0.49
1:E:114:TYR:HE2	1:E:153:ILE:CB	2.24	0.49
1:E:362:LEU:HD23	1:E:387:VAL:HG21	1.94	0.49
1:E:393:ILE:HD13	1:E:398:PHE:HB2	1.94	0.49
1:G:31:ALA:C	1:G:33:LYS:N	2.64	0.49
2:H:64:LEU:CD2	2:H:68:GLN:HB2	2.40	0.49
2:H:108:ILE:CG2	2:H:109:ARG:N	2.76	0.49
2:H:140:TYR:C	2:H:142:GLU:N	2.62	0.49
1:A:147:HIS:C	1:A:149:MET:H	2.15	0.49
1:A:362:LEU:HD23	1:A:387:VAL:HG21	1.94	0.49
1:A:398:PHE:O	1:A:398:PHE:CD1	2.66	0.49
1:A:446:VAL:O	1:A:448:LYS:N	2.46	0.49
1:A:721:PHE:O	1:A:723:ASN:N	2.46	0.49
2:B:49:LYS:HG3	2:B:50:VAL:N	2.23	0.49
2:B:50:VAL:HG11	2:B:72:MET:HG2	1.95	0.49
2:B:53:ASN:N	2:B:54:PRO:HD3	2.28	0.49
1:C:60:GLU:HG2	1:C:66:LYS:O	2.12	0.49
1:C:133:TYR:CE1	1:C:189:LYS:HD2	2.48	0.49
1:C:175:CYS:HB2	1:C:183:LYS:HG3	1.95	0.49
1:C:618:ASP:CG	1:C:621:VAL:HG23	2.33	0.49
2:D:64:LEU:CD2	2:D:68:GLN:HB2	2.40	0.49
1:E:227:ALA:C	1:E:229:PRO:HD2	2.32	0.49
1:E:274:LYS:O	1:E:276:ARG:N	2.45	0.49
1:E:799:PHE:CE2	1:E:803:CYS:SG	3.06	0.49
2:F:55:LYS:HB3	2:F:57:ASP:OD1	2.12	0.49
2:F:70:LEU:C	2:F:74:GLN:NE2	2.66	0.49
1:G:8:ASP:HA	1:G:11:LYS:HD2	1.93	0.49
1:G:227:ALA:C	1:G:229:PRO:HD2	2.32	0.49
1:G:475:ASN:OD1	1:G:590:VAL:HG12	2.13	0.49
1:G:806:TYR:O	1:G:810:LYS:CG	2.60	0.49
1:G:815:ARG:HA	1:G:818:GLN:CG	2.43	0.49
2:H:70:LEU:C	2:H:74:GLN:NE2	2.65	0.49
1:A:153:ILE:HG21	1:A:189:LYS:HB3	1.93	0.49
1:A:274:LYS:C	1:A:276:ARG:H	2.14	0.49
1:A:274:LYS:O	1:A:276:ARG:N	2.46	0.49
1:A:381:ASN:CB	1:A:385:GLN:HE21	2.25	0.49
1:A:697:ASP:HB3	1:A:700:LEU:HD22	1.94	0.49
1:C:311:ASN:ND2	1:C:319:GLY:HA3	2.28	0.49
1:C:399:THR:O	1:C:403:LEU:HD12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:541:LEU:CD2	1:C:601:ASN:HD22	2.09	0.49
1:C:742:ILE:CD1	1:C:752:ALA:HA	2.43	0.49
1:C:815:ARG:HA	1:C:818:GLN:CG	2.43	0.49
1:E:175:CYS:HB2	1:E:183:LYS:HG3	1.95	0.49
1:E:252:ILE:H	1:E:252:ILE:HD12	1.77	0.49
1:E:618:ASP:CG	1:E:621:VAL:HG23	2.33	0.49
1:G:145:LYS:HG3	1:G:146:ARG:CD	2.43	0.49
1:G:223:GLN:C	1:G:225:LEU:H	2.15	0.49
1:G:231:LEU:N	1:G:231:LEU:HD23	2.28	0.49
1:G:317:SER:O	1:G:318:ASN:HB2	2.11	0.49
1:G:365:ILE:O	1:G:365:ILE:HG22	2.12	0.49
1:G:575:LEU:HD22	1:G:578:LYS:O	2.12	0.49
2:H:15:PHE:CZ	2:H:26:ILE:HD13	2.48	0.49
1:A:133:TYR:CE1	1:A:189:LYS:HD2	2.48	0.49
1:A:546:TRP:HA	1:A:602:MET:HE1	1.94	0.49
1:A:575:LEU:O	1:A:576:LYS:C	2.51	0.49
1:A:657:ARG:CB	1:A:657:ARG:HH11	2.24	0.49
1:C:283:ASP:H	1:C:318:ASN:HD21	1.59	0.49
1:C:721:PHE:O	1:C:723:ASN:N	2.45	0.49
2:D:55:LYS:HB3	2:D:57:ASP:OD1	2.13	0.49
1:E:416:LYS:CG	1:E:417:ALA:H	2.25	0.49
1:E:525:ILE:O	1:E:529:GLU:N	2.46	0.49
1:E:552:ASP:O	1:E:555:PHE:HB3	2.12	0.49
1:E:575:LEU:HD22	1:E:579:THR:HA	1.95	0.49
1:G:66:LYS:HE3	1:G:67:LYS:H	1.78	0.49
1:G:228:ASN:N	1:G:229:PRO:HD2	2.27	0.49
1:G:381:ASN:CB	1:G:385:GLN:HE21	2.25	0.49
1:A:145:LYS:HG3	1:A:146:ARG:CD	2.43	0.49
1:A:505:TYR:CE1	1:A:724:ARG:NH2	2.81	0.49
1:C:268:GLU:O	1:C:268:GLU:HG3	2.12	0.49
2:D:65:LYS:HB2	2:D:68:GLN:HE21	1.78	0.49
1:E:272:LEU:HD22	1:E:439:PHE:CG	2.48	0.49
1:E:505:TYR:CE1	1:E:724:ARG:NH2	2.81	0.49
1:G:272:LEU:HD22	1:G:439:PHE:CG	2.48	0.49
1:G:301:MET:HG3	1:G:302:ARG:N	2.27	0.49
1:G:311:ASN:ND2	1:G:319:GLY:HA3	2.28	0.49
1:G:525:ILE:O	1:G:529:GLU:N	2.46	0.49
1:A:399:THR:O	1:A:403:LEU:HD12	2.12	0.48
1:A:697:ASP:O	1:A:701:VAL:HB	2.13	0.48
1:C:36:TRP:HB2	1:C:76:GLN:CB	2.38	0.48
1:C:272:LEU:HD22	1:C:439:PHE:CG	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:361:GLN:C	1:C:363:GLY:N	2.66	0.48
1:C:398:PHE:O	1:C:398:PHE:CD1	2.66	0.48
1:C:487:GLU:O	1:C:521:LEU:HD12	2.13	0.48
1:C:505:TYR:CE1	1:C:724:ARG:NH2	2.81	0.48
1:E:498:PHE:CD1	1:E:716:ILE:CD1	2.93	0.48
2:F:65:LYS:HB2	2:F:68:GLN:HE21	1.78	0.48
2:F:108:ILE:CG2	2:F:109:ARG:N	2.76	0.48
2:F:135:ASN:N	2:F:135:ASN:ND2	2.58	0.48
1:G:133:TYR:CE1	1:G:189:LYS:HD2	2.48	0.48
1:G:278:ILE:HG13	1:G:279:ARG:H	1.78	0.48
1:G:619:LYS:HA	1:G:622:ALA:HB3	1.95	0.48
1:A:175:CYS:HB2	1:A:183:LYS:HG3	1.95	0.48
1:A:601:ASN:OD1	1:A:601:ASN:O	2.31	0.48
1:A:799:PHE:CE2	1:A:803:CYS:SG	3.06	0.48
2:B:40:GLN:C	2:B:42:PRO:CD	2.81	0.48
1:C:71:SER:C	1:C:73:ASP:H	2.17	0.48
1:C:477:PHE:CD1	1:C:480:LEU:HD23	2.48	0.48
1:C:697:ASP:HB3	1:C:700:LEU:HD22	1.94	0.48
1:C:715:ARG:O	1:C:719:GLN:HB2	2.13	0.48
1:E:153:ILE:HG21	1:E:189:LYS:HB3	1.94	0.48
1:E:449:ALA:C	1:E:451:ASP:H	2.15	0.48
1:E:475:ASN:OD1	1:E:590:VAL:HG12	2.13	0.48
1:E:573:LYS:NZ	1:E:589:LYS:NZ	2.61	0.48
2:F:15:PHE:CZ	2:F:26:ILE:HD13	2.48	0.48
1:G:405:PRO:HD2	1:G:417:ALA:HA	1.95	0.48
1:G:487:GLU:O	1:G:521:LEU:HD12	2.13	0.48
1:G:573:LYS:NZ	1:G:589:LYS:NZ	2.61	0.48
2:H:52:GLY:C	2:H:53:ASN:HD22	2.15	0.48
1:A:416:LYS:CG	1:A:417:ALA:H	2.26	0.48
1:A:476:SER:OG	1:A:478:GLU:OE1	2.30	0.48
1:A:573:LYS:NZ	1:A:589:LYS:NZ	2.61	0.48
1:C:405:PRO:HD2	1:C:417:ALA:HA	1.96	0.48
1:C:720:GLY:O	1:C:722:PRO:HD3	2.14	0.48
2:D:26:ILE:HG22	2:D:26:ILE:O	2.12	0.48
1:E:39:SER:HB3	1:E:43:GLY:C	2.33	0.48
1:E:79:ASN:OD1	1:E:80:PRO:HD2	2.13	0.48
1:E:344:PHE:N	1:E:344:PHE:HD1	2.12	0.48
1:E:806:TYR:CE1	2:F:146:MET:O	2.67	0.48
1:G:487:GLU:OE1	1:G:585:HIS:ND1	2.45	0.48
1:G:573:LYS:NZ	1:G:589:LYS:HZ3	2.10	0.48
1:A:79:ASN:OD1	1:A:80:PRO:HD2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:475:ASN:OD1	1:A:590:VAL:HG12	2.13	0.48
1:A:498:PHE:HD1	1:A:716:ILE:HD11	1.77	0.48
1:A:713:GLY:CA	1:A:716:ILE:HD12	2.44	0.48
2:B:70:LEU:C	2:B:74:GLN:NE2	2.66	0.48
1:C:66:LYS:HE3	1:C:67:LYS:H	1.78	0.48
1:C:311:ASN:ND2	1:C:319:GLY:CA	2.77	0.48
1:C:525:ILE:O	1:C:529:GLU:N	2.46	0.48
1:C:581:PHE:HZ	1:C:597:TRP:CH2	2.31	0.48
1:C:697:ASP:O	1:C:701:VAL:HB	2.14	0.48
1:E:36:TRP:HB2	1:E:76:GLN:CB	2.38	0.48
1:E:138:ILE:HG21	1:E:196:VAL:CG2	2.43	0.48
1:E:145:LYS:HG3	1:E:146:ARG:CD	2.43	0.48
1:E:228:ASN:N	1:E:229:PRO:HD2	2.28	0.48
1:E:280:GLN:CG	1:E:286:THR:HG23	2.43	0.48
1:E:405:PRO:HD2	1:E:417:ALA:HA	1.96	0.48
1:G:36:TRP:HB2	1:G:76:GLN:CB	2.38	0.48
1:G:178:GLU:O	1:G:183:LYS:NZ	2.47	0.48
1:G:268:GLU:O	1:G:268:GLU:HG3	2.12	0.48
1:G:799:PHE:CE2	1:G:803:CYS:SG	3.06	0.48
2:H:64:LEU:HD21	2:H:72:MET:HE3	1.95	0.48
1:A:58:THR:HA	1:A:69:THR:CG2	2.43	0.48
1:A:272:LEU:HD22	1:A:439:PHE:CG	2.49	0.48
1:A:305:LEU:HD12	1:A:307:LEU:CD2	2.42	0.48
1:A:376:ALA:HB2	1:A:420:LYS:CA	2.28	0.48
1:A:517:PHE:CE2	1:A:715:ARG:HB3	2.46	0.48
1:A:815:ARG:HA	1:A:818:GLN:CG	2.43	0.48
2:B:64:LEU:HD21	2:B:72:MET:CE	2.43	0.48
2:B:64:LEU:HD21	2:B:72:MET:HE3	1.94	0.48
1:C:238:LYS:HE3	1:C:321:VAL:HG11	1.94	0.48
1:C:275:SER:HB2	1:C:478:GLU:OE2	2.14	0.48
1:C:305:LEU:HD12	1:C:307:LEU:CD2	2.42	0.48
1:E:581:PHE:HZ	1:E:597:TRP:CH2	2.31	0.48
1:E:601:ASN:OD1	1:E:601:ASN:O	2.31	0.48
1:E:742:ILE:CD1	1:E:752:ALA:HA	2.44	0.48
1:G:39:SER:HB3	1:G:43:GLY:C	2.33	0.48
1:G:720:GLY:O	1:G:722:PRO:HD3	2.14	0.48
1:A:183:LYS:HB2	4:A:998:ADP:O1B	2.14	0.48
1:A:466:ILE:HD12	1:A:467:ALA:O	2.14	0.48
1:A:720:GLY:C	1:A:722:PRO:HD3	2.34	0.48
1:C:118:GLY:HA3	1:C:717:CYS:SG	2.54	0.48
1:C:174:LEU:HD12	1:C:681:PHE:CD1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:301:MET:HG3	1:C:302:ARG:N	2.26	0.48
1:C:575:LEU:HD22	1:C:579:THR:HA	1.95	0.48
1:C:720:GLY:C	1:C:722:PRO:HD3	2.34	0.48
1:C:727:PHE:CE2	1:C:750:LYS:HA	2.48	0.48
2:D:52:GLY:C	2:D:53:ASN:HD22	2.16	0.48
1:E:275:SER:HB2	1:E:478:GLU:OE2	2.14	0.48
1:E:495:HIS:ND1	1:E:499:ILE:HG21	2.29	0.48
1:G:58:THR:HA	1:G:69:THR:CG2	2.43	0.48
1:G:280:GLN:CG	1:G:286:THR:HG23	2.43	0.48
1:G:388:CYS:SG	1:G:398:PHE:HD2	2.37	0.48
1:G:505:TYR:CE1	1:G:724:ARG:NH2	2.81	0.48
1:G:581:PHE:HZ	1:G:597:TRP:CH2	2.31	0.48
1:G:721:PHE:O	1:G:723:ASN:N	2.46	0.48
1:G:727:PHE:CE2	1:G:750:LYS:HA	2.48	0.48
1:G:806:TYR:CE1	2:H:146:MET:O	2.67	0.48
1:A:183:LYS:HB2	1:A:183:LYS:HE2	1.69	0.48
1:A:311:ASN:ND2	1:A:319:GLY:CA	2.77	0.48
1:A:806:TYR:CE1	2:B:146:MET:O	2.67	0.48
2:B:28:TYR:CD2	2:B:54:PRO:CG	2.95	0.48
1:C:167:ASP:O	1:C:168:ARG:C	2.52	0.48
1:C:280:GLN:CG	1:C:286:THR:HG23	2.43	0.48
1:C:573:LYS:CE	1:C:589:LYS:HZ3	2.24	0.48
1:E:76:GLN:HG2	1:E:96:ASN:CG	2.34	0.48
1:E:147:HIS:CE1	1:E:148:GLU:HG2	2.49	0.48
1:E:194:LEU:CD1	1:E:461:LEU:HD22	2.44	0.48
1:E:344:PHE:N	1:E:344:PHE:CD1	2.82	0.48
1:E:477:PHE:CD1	1:E:480:LEU:HD23	2.48	0.48
1:E:697:ASP:O	1:E:701:VAL:HB	2.13	0.48
1:G:71:SER:C	1:G:73:ASP:H	2.17	0.48
1:G:194:LEU:HD11	1:G:461:LEU:HD22	1.96	0.48
1:G:772:SER:O	1:G:773:LYS:CB	2.54	0.48
2:H:65:LYS:HB2	2:H:68:GLN:HE21	1.78	0.48
1:A:118:GLY:HA3	1:A:717:CYS:SG	2.54	0.48
1:A:178:GLU:O	1:A:183:LYS:NZ	2.47	0.48
1:A:194:LEU:HD11	1:A:461:LEU:HD22	1.96	0.48
1:A:231:LEU:N	1:A:231:LEU:HD23	2.29	0.48
1:A:581:PHE:HZ	1:A:597:TRP:CH2	2.31	0.48
1:A:631:ILE:HG22	1:A:632:VAL:N	2.29	0.48
1:C:281:ALA:O	1:C:318:ASN:ND2	2.47	0.48
1:C:465:ASP:CG	1:C:465:ASP:O	2.52	0.48
1:C:475:ASN:OD1	1:C:590:VAL:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:717:CYS:HA	1:C:722:PRO:HG3	1.96	0.48
1:E:244:ASN:O	1:E:244:ASN:ND2	2.47	0.48
1:E:281:ALA:O	1:E:318:ASN:ND2	2.47	0.48
1:E:487:GLU:OE1	1:E:585:HIS:ND1	2.45	0.48
1:G:275:SER:HB2	1:G:478:GLU:OE2	2.13	0.48
1:G:477:PHE:CD1	1:G:480:LEU:HD23	2.48	0.48
1:G:697:ASP:O	1:G:701:VAL:HB	2.14	0.48
1:A:391:MET:O	1:A:618:ASP:HB2	2.14	0.48
1:A:477:PHE:CD1	1:A:480:LEU:HD23	2.48	0.48
1:A:618:ASP:CG	1:A:621:VAL:HG23	2.33	0.48
1:C:39:SER:HB3	1:C:43:GLY:C	2.33	0.48
1:C:145:LYS:HG3	1:C:146:ARG:CD	2.43	0.48
1:C:517:PHE:CE2	1:C:715:ARG:HB3	2.46	0.48
1:C:806:TYR:CE1	2:D:146:MET:O	2.67	0.48
2:D:105:GLY:HA2	2:D:138:ILE:CD1	2.44	0.48
1:E:71:SER:C	1:E:73:ASP:H	2.17	0.48
1:E:504:GLU:OE2	1:E:508:GLU:HG2	2.12	0.48
1:E:585:HIS:NE2	1:E:592:TYR:OH	2.47	0.48
1:E:720:GLY:O	1:E:722:PRO:HD3	2.13	0.48
2:F:31:CYS:HG	2:F:69:PHE:HE2	1.61	0.48
2:F:49:LYS:HG3	2:F:50:VAL:N	2.22	0.48
2:F:70:LEU:CG	2:F:74:GLN:HE21	2.27	0.48
1:G:118:GLY:HA3	1:G:717:CYS:SG	2.54	0.48
1:G:167:ASP:O	1:G:168:ARG:C	2.52	0.48
1:G:175:CYS:HB2	1:G:183:LYS:HG3	1.95	0.48
1:G:244:ASN:O	1:G:244:ASN:ND2	2.47	0.48
1:G:311:ASN:ND2	1:G:319:GLY:CA	2.77	0.48
1:G:441:TRP:HE3	1:G:442:ILE:HD13	1.78	0.48
1:G:575:LEU:O	1:G:576:LYS:C	2.51	0.48
1:G:733:ARG:NH1	2:H:95:PHE:HD1	2.12	0.48
1:G:735:GLU:HG3	1:G:756:MET:HE1	1.94	0.48
1:A:288:HIS:HB3	1:A:292:TYR:CE1	2.49	0.48
1:A:727:PHE:CE2	1:A:750:LYS:HA	2.49	0.48
2:B:64:LEU:CD2	2:B:68:GLN:HB2	2.40	0.48
2:B:140:TYR:CE1	2:B:141:GLU:CG	2.97	0.48
1:C:79:ASN:OD1	1:C:80:PRO:HD2	2.13	0.48
1:C:301:MET:HE3	1:C:305:LEU:HD11	1.96	0.48
1:C:547:PHE:CD2	1:C:548:PRO:HD2	2.49	0.48
1:C:547:PHE:CE1	1:C:549:LYS:HB3	2.32	0.48
2:D:4:SER:O	2:D:8:THR:OG1	2.28	0.48
1:E:118:GLY:HA3	1:E:717:CYS:SG	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:368:LYS:HZ3	1:E:379:PRO:CG	2.26	0.48
1:E:547:PHE:CD1	1:E:548:PRO:HD2	2.49	0.48
1:E:553:THR:O	1:E:554:SER:C	2.52	0.48
1:E:663:TYR:CE1	1:E:667:LEU:HB2	2.49	0.48
1:E:717:CYS:HA	1:E:722:PRO:HG3	1.96	0.48
1:E:727:PHE:CE2	1:E:750:LYS:HA	2.49	0.48
2:F:86:GLU:H	2:F:86:GLU:CD	2.18	0.48
1:G:89:MET:CG	1:G:92:LEU:HD11	2.32	0.48
1:G:194:LEU:CD1	1:G:461:LEU:HD22	2.44	0.48
1:G:281:ALA:O	1:G:318:ASN:ND2	2.47	0.48
1:G:361:GLN:C	1:G:363:GLY:N	2.66	0.48
1:G:553:THR:O	1:G:554:SER:C	2.52	0.48
1:G:630:ARG:HH22	1:G:657:ARG:HB3	1.77	0.48
1:G:713:GLY:CA	1:G:716:ILE:HD12	2.44	0.48
1:A:504:GLU:OE2	1:A:508:GLU:HG2	2.13	0.47
1:A:585:HIS:NE2	1:A:592:TYR:OH	2.47	0.47
1:A:663:TYR:CE1	1:A:667:LEU:HB2	2.49	0.47
2:B:55:LYS:HB3	2:B:57:ASP:OD1	2.13	0.47
1:C:274:LYS:O	1:C:276:ARG:N	2.46	0.47
1:C:721:PHE:C	1:C:723:ASN:H	2.18	0.47
1:E:44:PHE:HB2	1:E:101:LEU:HD22	1.95	0.47
1:E:167:ASP:O	1:E:168:ARG:C	2.52	0.47
1:E:223:GLN:C	1:E:225:LEU:H	2.15	0.47
1:E:365:ILE:O	1:E:365:ILE:HG22	2.12	0.47
1:E:441:TRP:HE3	1:E:442:ILE:HD13	1.77	0.47
1:E:498:PHE:HD1	1:E:716:ILE:HD11	1.78	0.47
1:G:174:LEU:HD12	1:G:681:PHE:CD1	2.49	0.47
1:G:446:VAL:O	1:G:448:LYS:N	2.47	0.47
1:G:547:PHE:CD1	1:G:548:PRO:HD2	2.49	0.47
1:G:601:ASN:OD1	1:G:601:ASN:O	2.31	0.47
1:G:720:GLY:C	1:G:722:PRO:HD3	2.34	0.47
2:H:102:THR:HG22	2:H:139:ASN:HA	1.96	0.47
1:A:39:SER:HB3	1:A:43:GLY:C	2.33	0.47
1:A:44:PHE:HD2	1:A:101:LEU:HD22	1.79	0.47
1:A:388:CYS:SG	1:A:398:PHE:HD2	2.37	0.47
1:A:715:ARG:O	1:A:719:GLN:HB2	2.14	0.47
1:A:757:ILE:HG21	1:A:767:TYR:CZ	2.49	0.47
1:C:138:ILE:HG21	1:C:196:VAL:CG2	2.43	0.47
1:C:178:GLU:O	1:C:183:LYS:NZ	2.47	0.47
1:C:182:GLY:N	4:C:998:ADP:O1B	2.47	0.47
1:C:231:LEU:HD23	1:C:231:LEU:N	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:288:HIS:HB3	1:C:292:TYR:CE1	2.49	0.47
1:C:530:ARG:HA	1:C:531:PRO:HD3	1.72	0.47
1:C:573:LYS:NZ	1:C:589:LYS:NZ	2.61	0.47
1:C:601:ASN:OD1	1:C:601:ASN:O	2.31	0.47
1:E:39:SER:OG	1:E:42:HIS:N	2.43	0.47
1:E:76:GLN:HG2	1:E:96:ASN:CB	2.44	0.47
1:E:174:LEU:HD12	1:E:681:PHE:CD1	2.49	0.47
1:E:382:THR:HA	1:E:385:GLN:OE1	2.14	0.47
1:E:388:CYS:SG	1:E:398:PHE:HD2	2.37	0.47
1:E:398:PHE:HB2	1:E:612:LEU:HD21	1.97	0.47
2:F:4:SER:O	2:F:8:THR:OG1	2.28	0.47
1:G:147:HIS:CE1	1:G:148:GLU:HG2	2.49	0.47
1:G:274:LYS:O	1:G:276:ARG:N	2.47	0.47
1:G:575:LEU:HD22	1:G:579:THR:HA	1.95	0.47
1:A:174:LEU:HD12	1:A:681:PHE:CD1	2.49	0.47
1:A:274:LYS:NZ	1:A:432:LYS:HD2	2.29	0.47
1:A:280:GLN:CG	1:A:286:THR:HG23	2.43	0.47
1:A:717:CYS:HA	1:A:722:PRO:HG3	1.96	0.47
1:C:388:CYS:SG	1:C:398:PHE:HD2	2.37	0.47
1:C:441:TRP:HE3	1:C:442:ILE:HD13	1.78	0.47
1:C:553:THR:O	1:C:554:SER:C	2.51	0.47
1:E:274:LYS:NZ	1:E:432:LYS:HD2	2.29	0.47
1:E:288:HIS:HB3	1:E:292:TYR:CE1	2.49	0.47
1:E:757:ILE:HG21	1:E:767:TYR:CZ	2.49	0.47
1:G:344:PHE:N	1:G:344:PHE:CD1	2.83	0.47
1:G:395:VAL:HG23	1:G:396:THR:HG23	1.97	0.47
1:G:466:ILE:HD12	1:G:467:ALA:O	2.14	0.47
1:A:194:LEU:CD1	1:A:461:LEU:HD22	2.44	0.47
1:A:275:SER:HB2	1:A:478:GLU:OE2	2.14	0.47
1:A:405:PRO:HD2	1:A:417:ALA:HA	1.97	0.47
1:A:489:LEU:HD12	1:A:489:LEU:C	2.27	0.47
1:A:511:GLU:CD	2:H:145:ARG:NH1	2.67	0.47
1:A:575:LEU:HD22	1:A:579:THR:HA	1.95	0.47
1:A:799:PHE:HB2	2:B:88:TYR:CD1	2.49	0.47
1:C:58:THR:HA	1:C:69:THR:CG2	2.43	0.47
1:C:120:PHE:CD1	1:C:120:PHE:N	2.72	0.47
1:C:381:ASN:CB	1:C:385:GLN:HE21	2.25	0.47
1:C:466:ILE:HD12	1:C:467:ALA:O	2.14	0.47
1:C:663:TYR:CE1	1:C:667:LEU:HB2	2.49	0.47
1:E:657:ARG:CB	1:E:657:ARG:HH11	2.24	0.47
1:E:663:TYR:C	1:E:665:GLU:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:105:GLY:HA2	2:F:138:ILE:CD1	2.45	0.47
1:G:79:ASN:OD1	1:G:80:PRO:HD2	2.13	0.47
1:G:663:TYR:C	1:G:665:GLU:H	2.18	0.47
1:G:721:PHE:C	1:G:723:ASN:H	2.18	0.47
2:H:28:TYR:HB2	2:H:62:LYS:CB	2.37	0.47
1:A:281:ALA:O	1:A:318:ASN:ND2	2.47	0.47
1:A:313:TYR:N	1:A:313:TYR:HD1	2.13	0.47
1:A:721:PHE:C	1:A:723:ASN:H	2.18	0.47
1:A:733:ARG:NH1	2:B:95:PHE:HD1	2.13	0.47
1:A:819:LEU:CD1	1:A:820:GLY:N	2.77	0.47
1:C:176:THR:OG1	1:C:177:GLY:N	2.47	0.47
1:C:274:LYS:C	1:C:276:ARG:N	2.68	0.47
1:C:362:LEU:HD23	1:C:387:VAL:HG11	1.96	0.47
1:C:446:VAL:O	1:C:448:LYS:N	2.47	0.47
1:C:575:LEU:O	1:C:576:LYS:C	2.51	0.47
1:C:713:GLY:CA	1:C:716:ILE:HD12	2.44	0.47
2:D:140:TYR:CE1	2:D:141:GLU:CG	2.97	0.47
1:E:58:THR:HA	1:E:69:THR:CG2	2.43	0.47
1:E:152:HIS:O	1:E:155:ALA:CB	2.58	0.47
1:E:466:ILE:HD12	1:E:467:ALA:O	2.14	0.47
1:E:720:GLY:C	1:E:722:PRO:HD3	2.35	0.47
1:E:733:ARG:NH1	2:F:95:PHE:HD1	2.12	0.47
1:E:799:PHE:HB2	2:F:88:TYR:CD1	2.50	0.47
1:E:819:LEU:CD1	1:E:820:GLY:N	2.78	0.47
1:G:498:PHE:CD1	1:G:498:PHE:N	2.82	0.47
1:A:66:LYS:HE3	1:A:67:LYS:H	1.78	0.47
1:A:103:ASN:ND2	1:A:107:ARG:HD2	2.30	0.47
1:A:244:ASN:ND2	1:A:244:ASN:O	2.47	0.47
1:A:663:TYR:C	1:A:665:GLU:H	2.18	0.47
1:C:103:ASN:ND2	1:C:107:ARG:HD2	2.30	0.47
1:C:194:LEU:CD1	1:C:461:LEU:HD22	2.44	0.47
1:C:194:LEU:HD11	1:C:461:LEU:HD22	1.96	0.47
1:C:244:ASN:O	1:C:244:ASN:ND2	2.47	0.47
1:C:391:MET:O	1:C:618:ASP:HB2	2.15	0.47
1:E:146:ARG:H	1:E:146:ARG:CD	2.28	0.47
1:E:391:MET:O	1:E:618:ASP:HB2	2.15	0.47
1:E:446:VAL:O	1:E:448:LYS:N	2.47	0.47
1:E:815:ARG:HA	1:E:818:GLN:CG	2.44	0.47
1:G:103:ASN:ND2	1:G:107:ARG:HD2	2.30	0.47
1:G:489:LEU:HD12	1:G:489:LEU:C	2.28	0.47
1:G:607:ASP:HA	1:G:610:THR:CB	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:344:PHE:N	1:A:344:PHE:CD1	2.83	0.47
1:A:382:THR:HA	1:A:385:GLN:OE1	2.14	0.47
1:A:395:VAL:HG23	1:A:396:THR:HG23	1.96	0.47
1:A:526:GLU:HA	1:A:529:GLU:HB3	1.97	0.47
1:A:547:PHE:CD2	1:A:548:PRO:HD2	2.49	0.47
1:A:619:LYS:HA	1:A:622:ALA:HB3	1.95	0.47
1:A:628:VAL:HG23	1:A:631:ILE:HG13	1.93	0.47
1:A:720:GLY:O	1:A:722:PRO:HD3	2.14	0.47
2:B:70:LEU:CG	2:B:74:GLN:HE21	2.27	0.47
1:C:274:LYS:NZ	1:C:432:LYS:HD2	2.30	0.47
1:C:354:ARG:HG3	1:C:355:VAL:N	2.30	0.47
1:C:361:GLN:O	1:C:363:GLY:N	2.48	0.47
1:C:619:LYS:HA	1:C:622:ALA:HB3	1.95	0.47
1:C:757:ILE:HG21	1:C:767:TYR:CZ	2.50	0.47
1:E:103:ASN:ND2	1:E:107:ARG:HD2	2.30	0.47
1:E:161:TYR:CE1	1:E:165:LEU:CD1	2.93	0.47
1:E:311:ASN:ND2	1:E:319:GLY:CA	2.78	0.47
1:E:715:ARG:O	1:E:719:GLN:HB2	2.13	0.47
2:F:140:TYR:C	2:F:142:GLU:N	2.62	0.47
1:G:138:ILE:HG21	1:G:196:VAL:CG2	2.43	0.47
1:G:183:LYS:HE2	1:G:183:LYS:HB2	1.67	0.47
1:G:274:LYS:NZ	1:G:432:LYS:HD2	2.30	0.47
1:G:288:HIS:HB3	1:G:292:TYR:CE1	2.49	0.47
1:G:391:MET:O	1:G:618:ASP:HB2	2.14	0.47
1:G:398:PHE:HB2	1:G:612:LEU:HD21	1.97	0.47
1:G:495:HIS:ND1	1:G:499:ILE:HG21	2.29	0.47
1:G:663:TYR:CE1	1:G:667:LEU:HB2	2.49	0.47
1:G:715:ARG:O	1:G:719:GLN:HB2	2.13	0.47
2:H:52:GLY:O	2:H:53:ASN:HB2	2.15	0.47
2:H:65:LYS:HB2	2:H:68:GLN:CG	2.30	0.47
2:H:105:GLY:HA2	2:H:138:ILE:CD1	2.44	0.47
1:A:36:TRP:HB2	1:A:76:GLN:CB	2.38	0.47
1:A:138:ILE:HG21	1:A:196:VAL:CG2	2.43	0.47
1:A:283:ASP:H	1:A:318:ASN:HD21	1.61	0.47
1:A:495:HIS:ND1	1:A:499:ILE:HG21	2.30	0.47
1:A:816:GLN:NE2	2:B:17:LEU:CD2	2.77	0.47
1:C:114:TYR:CE2	1:C:153:ILE:CB	2.88	0.47
1:C:197:VAL:O	1:C:197:VAL:CG1	2.63	0.47
1:C:489:LEU:HD12	1:C:489:LEU:C	2.28	0.47
1:C:526:GLU:HA	1:C:529:GLU:HB3	1.97	0.47
1:C:663:TYR:C	1:C:665:GLU:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:287:PHE:O	1:E:289:ILE:N	2.48	0.47
1:E:482:ILE:CG2	1:E:483:ASN:N	2.77	0.47
1:E:517:PHE:CE2	1:E:715:ARG:HB3	2.45	0.47
1:G:361:GLN:O	1:G:363:GLY:N	2.48	0.47
1:A:197:VAL:O	1:A:197:VAL:CG1	2.63	0.47
2:B:87:ASP:HA	2:B:90:GLU:HB3	1.96	0.47
1:C:147:HIS:CE1	1:C:148:GLU:HG2	2.49	0.47
1:C:585:HIS:NE2	1:C:592:TYR:OH	2.47	0.47
1:C:631:ILE:HG22	1:C:632:VAL:N	2.30	0.47
1:E:194:LEU:HD11	1:E:461:LEU:HD22	1.96	0.47
1:E:231:LEU:N	1:E:231:LEU:HD23	2.28	0.47
1:E:407:ILE:HD12	1:E:416:LYS:H	1.80	0.47
1:G:344:PHE:N	1:G:344:PHE:HD1	2.12	0.47
1:G:354:ARG:HG3	1:G:355:VAL:N	2.29	0.47
1:G:442:ILE:O	1:G:445:ARG:N	2.39	0.47
1:G:543:GLU:O	1:G:546:TRP:N	2.45	0.47
1:G:717:CYS:HA	1:G:722:PRO:HG3	1.96	0.47
2:H:3:PHE:CZ	2:H:73:MET:HE3	2.50	0.47
1:A:465:ASP:CG	1:A:465:ASP:O	2.52	0.47
1:C:344:PHE:N	1:C:344:PHE:CD1	2.83	0.47
1:C:502:GLN:O	1:C:505:TYR:HB2	2.15	0.47
2:D:102:THR:HG22	2:D:139:ASN:HA	1.96	0.47
1:G:146:ARG:H	1:G:146:ARG:CD	2.28	0.47
1:A:71:SER:C	1:A:73:ASP:H	2.17	0.46
1:A:147:HIS:CE1	1:A:148:GLU:HG2	2.49	0.46
1:A:167:ASP:O	1:A:168:ARG:C	2.52	0.46
1:A:268:GLU:O	1:A:268:GLU:HG3	2.13	0.46
1:A:603:ASP:O	1:A:632:VAL:HG21	2.14	0.46
1:A:699:HIS:HA	1:A:702:LEU:HB3	1.97	0.46
1:C:135:GLU:HB2	1:C:213:PRO:CD	2.46	0.46
1:C:146:ARG:H	1:C:146:ARG:CD	2.28	0.46
1:C:162:ARG:O	1:C:166:GLN:CG	2.63	0.46
1:C:184:THR:O	1:C:187:THR:N	2.48	0.46
1:C:495:HIS:ND1	1:C:499:ILE:HG21	2.29	0.46
1:C:733:ARG:NH1	2:D:95:PHE:HD1	2.12	0.46
2:D:40:GLN:C	2:D:42:PRO:CD	2.84	0.46
2:D:53:ASN:N	2:D:54:PRO:HD3	2.30	0.46
2:D:87:ASP:HA	2:D:90:GLU:HB3	1.95	0.46
1:E:226:GLN:CG	1:E:338:ALA:HA	2.45	0.46
1:G:278:ILE:CG2	1:G:432:LYS:NZ	2.78	0.46
2:H:140:TYR:CE1	2:H:141:GLU:CG	2.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:498:PHE:CD1	1:A:498:PHE:N	2.82	0.46
1:C:117:SER:OG	1:C:122:VAL:HG23	2.16	0.46
1:C:498:PHE:CE1	1:C:716:ILE:HD11	2.50	0.46
1:E:442:ILE:H	1:E:442:ILE:HG12	1.60	0.46
1:E:465:ASP:CG	1:E:465:ASP:O	2.52	0.46
2:F:52:GLY:O	2:F:53:ASN:HB2	2.15	0.46
1:G:305:LEU:HB2	1:G:307:LEU:HD23	1.97	0.46
1:G:313:TYR:N	1:G:313:TYR:HD1	2.12	0.46
1:G:699:HIS:HA	1:G:702:LEU:HB3	1.97	0.46
1:G:757:ILE:HG21	1:G:767:TYR:CZ	2.50	0.46
1:A:22:ASN:OD1	1:A:24:LEU:HB2	2.16	0.46
1:A:604:PRO:O	1:A:605:LEU:HB3	2.15	0.46
1:A:664:LYS:O	1:A:668:THR:HG23	2.15	0.46
1:C:799:PHE:HB2	2:D:88:TYR:CD1	2.49	0.46
2:D:15:PHE:CZ	2:D:26:ILE:HB	2.51	0.46
2:D:16:GLN:HG2	2:D:16:GLN:H	1.40	0.46
1:E:361:GLN:O	1:E:363:GLY:N	2.49	0.46
1:E:747:MET:CE	1:E:747:MET:HA	2.46	0.46
1:G:182:GLY:O	1:G:183:LYS:C	2.52	0.46
1:G:407:ILE:HD12	1:G:416:LYS:H	1.80	0.46
1:G:526:GLU:HA	1:G:529:GLU:HB3	1.97	0.46
1:A:361:GLN:O	1:A:363:GLY:N	2.48	0.46
1:C:101:LEU:HD21	1:C:105:ARG:NH2	2.31	0.46
1:C:344:PHE:N	1:C:344:PHE:HD1	2.12	0.46
1:C:625:TRP:O	1:C:628:VAL:HG12	2.16	0.46
2:D:27:LEU:HD23	2:D:28:TYR:H	1.80	0.46
1:E:22:ASN:OD1	1:E:24:LEU:HB2	2.16	0.46
1:E:86:VAL:HG12	1:E:103:ASN:OD1	2.16	0.46
1:E:395:VAL:HG23	1:E:396:THR:HG23	1.96	0.46
1:E:664:LYS:O	1:E:668:THR:HG23	2.16	0.46
1:E:721:PHE:C	1:E:723:ASN:H	2.18	0.46
2:F:87:ASP:HA	2:F:90:GLU:HB3	1.96	0.46
1:G:362:LEU:HD23	1:G:387:VAL:HG11	1.96	0.46
1:G:585:HIS:NE2	1:G:592:TYR:OH	2.47	0.46
1:G:631:ILE:HG22	1:G:632:VAL:N	2.30	0.46
2:H:53:ASN:N	2:H:54:PRO:HD3	2.31	0.46
2:H:70:LEU:CG	2:H:74:GLN:HE21	2.27	0.46
1:A:176:THR:OG1	1:A:177:GLY:N	2.46	0.46
1:A:224:LEU:HD12	1:A:224:LEU:O	2.16	0.46
1:A:344:PHE:N	1:A:344:PHE:HD1	2.13	0.46
1:A:630:ARG:HH22	1:A:657:ARG:HB3	1.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:144:LYS:HG2	1:C:149:MET:HG3	1.97	0.46
1:C:278:ILE:HG13	1:C:279:ARG:H	1.80	0.46
1:C:313:TYR:N	1:C:313:TYR:HD1	2.12	0.46
1:C:395:VAL:HG23	1:C:396:THR:HG23	1.97	0.46
2:D:28:TYR:CD2	2:D:54:PRO:CG	2.99	0.46
1:E:362:LEU:HD23	1:E:387:VAL:HG11	1.96	0.46
1:E:442:ILE:O	1:E:445:ARG:N	2.39	0.46
2:F:84:CYS:O	2:F:88:TYR:N	2.44	0.46
1:G:182:GLY:O	1:G:184:THR:N	2.48	0.46
1:G:482:ILE:CG2	1:G:483:ASN:N	2.76	0.46
1:G:509:GLY:O	1:G:510:ILE:C	2.54	0.46
1:A:39:SER:OG	1:A:42:HIS:N	2.43	0.46
1:A:226:GLN:HG2	1:A:341:ILE:HG13	1.98	0.46
1:A:487:GLU:OE1	1:A:585:HIS:ND1	2.45	0.46
1:A:735:GLU:HG3	1:A:756:MET:HE1	1.95	0.46
2:B:52:GLY:C	2:B:53:ASN:HD22	2.19	0.46
2:B:105:GLY:HA2	2:B:138:ILE:CD1	2.45	0.46
2:B:126:GLN:HG3	2:B:126:GLN:H	1.47	0.46
1:C:224:LEU:HD12	1:C:224:LEU:O	2.16	0.46
1:C:238:LYS:HB2	1:C:243:ASP:O	2.16	0.46
1:C:287:PHE:O	1:C:289:ILE:N	2.49	0.46
1:C:305:LEU:HB2	1:C:307:LEU:HD23	1.97	0.46
1:C:482:ILE:CG2	1:C:483:ASN:N	2.76	0.46
1:C:563:GLN:O	1:C:565:ASN:N	2.49	0.46
2:D:70:LEU:CG	2:D:74:GLN:HE21	2.27	0.46
1:E:31:ALA:O	1:E:33:LYS:N	2.49	0.46
1:E:114:TYR:CE2	1:E:153:ILE:CB	2.88	0.46
1:E:135:GLU:HB2	1:E:213:PRO:CD	2.46	0.46
1:E:310:PHE:CE1	1:E:320:HIS:HD2	2.34	0.46
1:E:502:GLN:O	1:E:505:TYR:HB2	2.15	0.46
1:E:607:ASP:HA	1:E:610:THR:CB	2.43	0.46
2:F:15:PHE:CZ	2:F:26:ILE:HB	2.51	0.46
1:G:31:ALA:O	1:G:33:LYS:N	2.49	0.46
1:G:117:SER:OG	1:G:122:VAL:HG23	2.16	0.46
1:G:176:THR:OG1	1:G:177:GLY:N	2.47	0.46
1:G:234:PHE:HB3	1:G:289:ILE:CG2	2.37	0.46
1:G:778:THR:C	1:G:780:VAL:H	2.19	0.46
1:G:799:PHE:HB2	2:H:88:TYR:CD1	2.50	0.46
2:H:49:LYS:HG3	2:H:50:VAL:N	2.22	0.46
1:A:101:LEU:HD21	1:A:105:ARG:NH2	2.31	0.46
1:A:274:LYS:C	1:A:276:ARG:N	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:398:PHE:HB2	1:A:612:LEU:HD21	1.96	0.46
1:C:31:ALA:O	1:C:33:LYS:N	2.49	0.46
1:C:361:GLN:C	1:C:363:GLY:H	2.19	0.46
1:C:398:PHE:HB2	1:C:612:LEU:HD21	1.97	0.46
1:C:407:ILE:HD12	1:C:416:LYS:H	1.81	0.46
1:C:604:PRO:O	1:C:605:LEU:HB3	2.15	0.46
1:E:178:GLU:O	1:E:183:LYS:NZ	2.49	0.46
2:F:102:THR:HG22	2:F:139:ASN:HA	1.96	0.46
1:G:274:LYS:C	1:G:276:ARG:N	2.68	0.46
1:G:502:GLN:O	1:G:505:TYR:HB2	2.15	0.46
1:A:36:TRP:CE2	1:A:78:MET:HG3	2.51	0.46
1:A:87:GLU:OE1	1:A:107:ARG:NH2	2.49	0.46
1:A:404:THR:OG1	1:A:404:THR:O	2.33	0.46
1:A:563:GLN:O	1:A:565:ASN:N	2.49	0.46
1:A:778:THR:C	1:A:780:VAL:H	2.20	0.46
1:C:226:GLN:HG2	1:C:341:ILE:HG13	1.98	0.46
1:C:520:ASP:OD1	1:C:522:GLN:HB2	2.16	0.46
1:E:476:SER:OG	1:E:478:GLU:OE1	2.29	0.46
1:E:498:PHE:CE1	1:E:716:ILE:HD11	2.50	0.46
1:E:543:GLU:O	1:E:546:TRP:N	2.44	0.46
1:E:604:PRO:O	1:E:605:LEU:HB3	2.15	0.46
2:F:40:GLN:C	2:F:42:PRO:CD	2.84	0.46
1:G:152:HIS:O	1:G:155:ALA:CB	2.58	0.46
1:G:226:GLN:HG2	1:G:341:ILE:HG13	1.98	0.46
1:G:664:LYS:O	1:G:668:THR:HG23	2.16	0.46
2:H:28:TYR:CD2	2:H:54:PRO:CG	2.99	0.46
2:H:103:VAL:CG1	2:H:104:MET:H	2.22	0.46
1:A:117:SER:OG	1:A:122:VAL:HG23	2.15	0.46
1:A:184:THR:O	1:A:187:THR:N	2.48	0.46
1:A:397:ASP:HB3	1:A:612:LEU:HD11	1.98	0.46
1:A:407:ILE:CG2	1:A:408:LYS:N	2.79	0.46
1:A:560:ILE:H	1:A:560:ILE:HG13	1.49	0.46
1:C:269:THR:CB	1:C:443:LEU:HD13	2.42	0.46
1:C:298:SER:O	1:C:302:ARG:N	2.34	0.46
1:C:607:ASP:HA	1:C:610:THR:CB	2.42	0.46
1:C:614:ASN:HB2	1:C:628:VAL:HG11	1.98	0.46
2:D:108:ILE:HD13	2:D:108:ILE:HA	1.73	0.46
1:E:13:LEU:HD11	1:E:137:ILE:CG2	2.45	0.46
1:E:224:LEU:HD12	1:E:224:LEU:O	2.16	0.46
1:E:238:LYS:HB2	1:E:243:ASP:O	2.16	0.46
1:E:498:PHE:CD1	1:E:498:PHE:N	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:520:ASP:OD1	1:E:522:GLN:HB2	2.16	0.46
1:E:625:TRP:O	1:E:628:VAL:HG12	2.16	0.46
2:F:28:TYR:CD2	2:F:54:PRO:CG	2.99	0.46
1:G:162:ARG:O	1:G:166:GLN:CG	2.63	0.46
1:G:287:PHE:O	1:G:289:ILE:N	2.48	0.46
1:G:305:LEU:HD12	1:G:307:LEU:CD2	2.42	0.46
1:G:465:ASP:CG	1:G:465:ASP:O	2.52	0.46
1:G:625:TRP:O	1:G:628:VAL:HG12	2.16	0.46
1:A:22:ASN:HA	1:A:23:PRO:HD3	1.84	0.46
1:A:146:ARG:H	1:A:146:ARG:CD	2.29	0.46
1:A:287:PHE:O	1:A:289:ILE:N	2.49	0.46
1:A:502:GLN:O	1:A:505:TYR:HB2	2.15	0.46
1:C:253:ARG:HG3	1:C:460:PHE:HD1	1.81	0.46
1:C:345:THR:N	1:C:348:GLU:HB2	2.31	0.46
2:D:102:THR:HG22	2:D:139:ASN:CB	2.47	0.46
2:D:143:LEU:O	2:D:147:VAL:HG22	2.16	0.46
1:E:36:TRP:CE2	1:E:78:MET:HG3	2.51	0.46
1:E:274:LYS:C	1:E:276:ARG:N	2.68	0.46
1:E:547:PHE:CE2	1:E:549:LYS:HB3	2.33	0.46
1:G:224:LEU:O	1:G:224:LEU:HD12	2.16	0.46
1:G:391:MET:HB3	1:G:393:ILE:CG1	2.46	0.46
1:G:442:ILE:H	1:G:442:ILE:HG12	1.60	0.46
1:G:464:LEU:HD21	1:G:466:ILE:HG21	1.98	0.46
1:G:604:PRO:O	1:G:605:LEU:HB3	2.15	0.46
2:H:87:ASP:HA	2:H:90:GLU:HB3	1.97	0.46
1:A:310:PHE:CE1	1:A:320:HIS:HD2	2.34	0.45
1:A:509:GLY:O	1:A:510:ILE:C	2.54	0.45
2:B:89:VAL:HA	2:B:92:LEU:HG	1.98	0.45
2:B:102:THR:HG22	2:B:139:ASN:CB	2.46	0.45
1:E:87:GLU:OE1	1:E:107:ARG:NH2	2.49	0.45
1:E:137:ILE:HD13	1:E:137:ILE:N	2.31	0.45
1:E:345:THR:N	1:E:348:GLU:HB2	2.32	0.45
1:E:541:LEU:CD2	1:E:601:ASN:HD22	2.09	0.45
1:E:610:THR:HG22	1:E:611:SER:N	2.30	0.45
1:G:87:GLU:OE1	1:G:107:ARG:NH2	2.49	0.45
1:G:114:TYR:HE2	1:G:153:ILE:CB	2.24	0.45
1:G:135:GLU:HB2	1:G:213:PRO:CD	2.46	0.45
1:G:498:PHE:CE1	1:G:716:ILE:HD11	2.50	0.45
1:G:610:THR:HG22	1:G:611:SER:N	2.31	0.45
1:G:788:ARG:HH22	2:H:95:PHE:HE1	1.64	0.45
2:H:70:LEU:HG	2:H:74:GLN:HE22	1.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:108:ILE:HD13	2:H:108:ILE:HA	1.74	0.45
1:A:135:GLU:HB2	1:A:213:PRO:CD	2.46	0.45
1:A:311:ASN:ND2	1:A:319:GLY:HA3	2.29	0.45
1:A:407:ILE:HD12	1:A:416:LYS:H	1.81	0.45
1:A:607:ASP:HA	1:A:610:THR:CB	2.42	0.45
1:A:625:TRP:O	1:A:628:VAL:HG12	2.16	0.45
2:B:52:GLY:O	2:B:53:ASN:HB2	2.16	0.45
2:B:102:THR:HG22	2:B:139:ASN:HA	1.97	0.45
1:C:22:ASN:OD1	1:C:24:LEU:HB2	2.16	0.45
1:C:234:PHE:HB3	1:C:289:ILE:CG2	2.37	0.45
1:C:391:MET:HB3	1:C:393:ILE:CG1	2.46	0.45
1:C:819:LEU:CD1	1:C:820:GLY:N	2.79	0.45
2:D:89:VAL:O	2:D:90:GLU:C	2.55	0.45
1:E:101:LEU:HD21	1:E:105:ARG:NH2	2.31	0.45
1:E:117:SER:OG	1:E:122:VAL:HG23	2.16	0.45
1:E:125:ASN:CB	1:E:687:PRO:HD3	2.42	0.45
1:E:176:THR:OG1	1:E:177:GLY:N	2.46	0.45
1:E:352:ILE:HG23	1:E:620:PHE:HZ	1.81	0.45
1:E:631:ILE:HG22	1:E:632:VAL:N	2.31	0.45
2:F:53:ASN:N	2:F:54:PRO:HD3	2.31	0.45
2:F:58:GLU:H	2:F:58:GLU:HG2	1.36	0.45
2:F:102:THR:HG22	2:F:139:ASN:CB	2.47	0.45
1:G:469:PHE:CD1	1:G:483:ASN:ND2	2.84	0.45
1:G:747:MET:HA	1:G:747:MET:CE	2.46	0.45
2:H:89:VAL:HA	2:H:92:LEU:HG	1.98	0.45
1:A:278:ILE:CG2	1:A:432:LYS:NZ	2.79	0.45
1:A:442:ILE:O	1:A:445:ARG:N	2.38	0.45
1:A:809:ARG:HD3	2:B:36:ARG:HB3	1.98	0.45
2:B:15:PHE:CZ	2:B:26:ILE:HB	2.51	0.45
2:B:70:LEU:HG	2:B:74:GLN:HE22	1.76	0.45
2:B:143:LEU:O	2:B:147:VAL:HG22	2.17	0.45
1:C:310:PHE:CE1	1:C:320:HIS:HD2	2.34	0.45
1:C:610:THR:HG22	1:C:611:SER:N	2.31	0.45
2:D:103:VAL:CG1	2:D:104:MET:N	2.79	0.45
1:E:184:THR:O	1:E:187:THR:N	2.48	0.45
1:E:305:LEU:HD12	1:E:307:LEU:CD2	2.42	0.45
1:E:391:MET:HB3	1:E:393:ILE:CG1	2.46	0.45
1:E:526:GLU:HA	1:E:529:GLU:HB3	1.98	0.45
1:G:83:PHE:HZ	1:G:93:THR:HG23	1.82	0.45
1:G:101:LEU:HD21	1:G:105:ARG:NH2	2.31	0.45
1:G:476:SER:OG	1:G:478:GLU:OE1	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:726:VAL:HA	1:G:773:LYS:HA	1.98	0.45
2:H:40:GLN:C	2:H:42:PRO:CD	2.84	0.45
1:A:144:LYS:HG2	1:A:149:MET:HG3	1.97	0.45
1:A:558:LYS:O	1:A:561:GLN:HB2	2.16	0.45
1:C:173:ILE:HA	1:C:680:ASN:HB2	1.99	0.45
1:E:183:LYS:HB2	1:E:183:LYS:HE2	1.69	0.45
1:E:234:PHE:HB3	1:E:289:ILE:CG2	2.37	0.45
1:E:425:PHE:CD1	1:E:425:PHE:C	2.89	0.45
1:E:547:PHE:CD2	1:E:549:LYS:N	2.85	0.45
1:E:558:LYS:O	1:E:561:GLN:HB2	2.16	0.45
1:E:735:GLU:HG3	1:E:756:MET:HE2	1.98	0.45
2:F:103:VAL:HG23	2:F:140:TYR:CD2	2.52	0.45
2:F:103:VAL:CG1	2:F:104:MET:H	2.22	0.45
1:G:226:GLN:CG	1:G:338:ALA:HA	2.46	0.45
1:G:541:LEU:CD2	1:G:601:ASN:HD22	2.09	0.45
1:G:819:LEU:CD1	1:G:820:GLY:N	2.78	0.45
1:A:114:TYR:CE2	1:A:153:ILE:CB	2.88	0.45
1:A:238:LYS:HB2	1:A:243:ASP:O	2.16	0.45
1:A:697:ASP:CG	1:A:700:LEU:HB3	2.37	0.45
1:C:36:TRP:CE2	1:C:78:MET:HG3	2.51	0.45
1:C:278:ILE:CG2	1:C:432:LYS:NZ	2.79	0.45
1:C:664:LYS:O	1:C:668:THR:HG23	2.16	0.45
1:C:703:GLU:HA	1:C:706:ARG:HD3	1.98	0.45
1:C:778:THR:C	1:C:780:VAL:H	2.19	0.45
2:D:52:GLY:O	2:D:53:ASN:HB2	2.15	0.45
2:D:103:VAL:HG23	2:D:140:TYR:CD2	2.52	0.45
1:E:89:MET:CG	1:E:92:LEU:HD11	2.32	0.45
1:E:197:VAL:O	1:E:197:VAL:CG1	2.63	0.45
1:E:226:GLN:HG2	1:E:341:ILE:HG13	1.98	0.45
1:E:278:ILE:HG13	1:E:279:ARG:H	1.80	0.45
1:E:397:ASP:HB3	1:E:612:LEU:HD11	1.98	0.45
1:E:699:HIS:HA	1:E:702:LEU:HB3	1.97	0.45
1:G:22:ASN:OD1	1:G:24:LEU:HB2	2.16	0.45
2:H:15:PHE:CZ	2:H:26:ILE:HB	2.51	0.45
2:H:20:ARG:HE	2:H:20:ARG:HB3	1.46	0.45
2:H:103:VAL:CG1	2:H:104:MET:N	2.79	0.45
2:H:119:MET:HB3	2:H:123:GLU:CB	2.47	0.45
1:A:31:ALA:O	1:A:33:LYS:N	2.49	0.45
1:A:226:GLN:CG	1:A:338:ALA:HA	2.46	0.45
1:A:345:THR:N	1:A:348:GLU:HB2	2.32	0.45
1:A:354:ARG:HG3	1:A:355:VAL:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:726:VAL:HA	1:A:773:LYS:HA	1.99	0.45
1:C:407:ILE:CG2	1:C:408:LYS:N	2.80	0.45
1:C:558:LYS:O	1:C:561:GLN:HB2	2.16	0.45
1:E:113:ILE:H	1:E:113:ILE:HG12	1.72	0.45
1:E:301:MET:CE	1:E:305:LEU:HD11	2.47	0.45
1:E:311:ASN:ND2	1:E:319:GLY:HA3	2.29	0.45
1:E:407:ILE:CG2	1:E:408:LYS:N	2.79	0.45
1:E:469:PHE:CD1	1:E:483:ASN:ND2	2.84	0.45
1:E:703:GLU:HA	1:E:706:ARG:HD3	1.98	0.45
1:E:800:GLN:CA	2:F:119:MET:HE2	2.34	0.45
1:G:79:ASN:OD1	1:G:93:THR:OG1	2.26	0.45
1:G:238:LYS:HB2	1:G:243:ASP:O	2.16	0.45
1:G:487:GLU:HG3	1:G:521:LEU:CD1	2.47	0.45
1:G:563:GLN:O	1:G:565:ASN:N	2.49	0.45
1:G:703:GLU:HA	1:G:706:ARG:HD3	1.99	0.45
2:H:70:LEU:CD1	2:H:74:GLN:HE21	2.30	0.45
1:A:308:GLU:HB2	1:A:313:TYR:HE1	1.82	0.45
1:A:498:PHE:CE1	1:A:716:ILE:HD11	2.51	0.45
1:A:614:ASN:HB2	1:A:628:VAL:HG11	1.98	0.45
2:B:119:MET:HB3	2:B:123:GLU:CB	2.47	0.45
1:C:469:PHE:CD1	1:C:483:ASN:ND2	2.84	0.45
1:C:487:GLU:HG3	1:C:521:LEU:CD1	2.47	0.45
1:C:772:SER:O	1:C:773:LYS:CB	2.55	0.45
1:E:278:ILE:CG2	1:E:432:LYS:NZ	2.79	0.45
1:E:500:LEU:O	1:E:503:GLU:HG2	2.17	0.45
1:E:726:VAL:HA	1:E:773:LYS:HA	1.98	0.45
1:G:95:LEU:HD11	1:G:714:ILE:HG22	1.99	0.45
1:G:253:ARG:HG3	1:G:460:PHE:HD1	1.80	0.45
1:G:345:THR:N	1:G:348:GLU:HB2	2.31	0.45
1:G:361:GLN:C	1:G:363:GLY:H	2.19	0.45
1:G:558:LYS:O	1:G:561:GLN:HB2	2.16	0.45
1:G:614:ASN:HB2	1:G:628:VAL:HG11	1.98	0.45
1:G:781:LEU:HD13	1:G:781:LEU:HA	1.79	0.45
2:H:89:VAL:O	2:H:90:GLU:C	2.55	0.45
1:A:22:ASN:O	1:A:22:ASN:ND2	2.50	0.45
1:A:272:LEU:HD21	1:A:435:PHE:CE2	2.52	0.45
1:A:735:GLU:O	1:A:738:ALA:C	2.55	0.45
1:A:809:ARG:HH21	2:B:41:ASN:CG	2.18	0.45
2:B:31:CYS:HG	2:B:69:PHE:HE2	1.63	0.45
1:C:44:PHE:CG	1:C:98:ALA:HB2	2.52	0.45
1:C:498:PHE:CD1	1:C:498:PHE:N	2.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:699:HIS:HA	1:C:702:LEU:HB3	1.98	0.45
1:C:747:MET:HA	1:C:747:MET:CE	2.46	0.45
1:C:788:ARG:HH22	2:D:95:PHE:HE1	1.64	0.45
1:E:361:GLN:C	1:E:363:GLY:H	2.19	0.45
1:E:663:TYR:C	1:E:665:GLU:N	2.71	0.45
1:E:788:ARG:HH22	2:F:95:PHE:HE1	1.64	0.45
2:F:89:VAL:O	2:F:90:GLU:C	2.55	0.45
2:F:140:TYR:CE1	2:F:141:GLU:CG	2.97	0.45
1:G:32:LYS:HG2	1:G:32:LYS:H	1.38	0.45
1:G:144:LYS:HG2	1:G:149:MET:HG3	1.97	0.45
1:G:197:VAL:O	1:G:197:VAL:CG1	2.63	0.45
1:G:397:ASP:HB3	1:G:612:LEU:HD11	1.98	0.45
1:G:407:ILE:CG2	1:G:408:LYS:N	2.80	0.45
2:H:71:PRO:HA	2:H:74:GLN:OE1	2.17	0.45
2:H:102:THR:HG22	2:H:139:ASN:CB	2.47	0.45
2:H:103:VAL:CG1	2:H:107:GLU:HB3	2.47	0.45
1:A:27:ALA:O	1:A:29:TRP:HD1	2.00	0.45
1:A:137:ILE:HD13	1:A:137:ILE:N	2.31	0.45
2:B:103:VAL:HG23	2:B:140:TYR:CD2	2.52	0.45
1:C:399:THR:HG22	1:C:403:LEU:HD12	1.99	0.45
1:C:818:GLN:H	1:C:818:GLN:HG2	1.37	0.45
2:D:119:MET:HB3	2:D:123:GLU:CB	2.47	0.45
1:E:173:ILE:HA	1:E:680:ASN:HB2	1.99	0.45
1:E:305:LEU:HB3	1:E:354:ARG:HA	1.99	0.45
1:E:399:THR:O	1:E:403:LEU:HB2	2.17	0.45
2:F:70:LEU:HG	2:F:74:GLN:HE22	1.77	0.45
2:F:70:LEU:CD1	2:F:74:GLN:HE21	2.30	0.45
2:F:85:PHE:HA	2:F:89:VAL:HG13	1.99	0.45
1:G:126:PRO:O	1:G:127:TYR:HB2	2.17	0.45
1:G:173:ILE:HA	1:G:680:ASN:HB2	1.99	0.45
1:G:278:ILE:HG13	1:G:279:ARG:N	2.32	0.45
1:G:520:ASP:OD1	1:G:522:GLN:HB2	2.16	0.45
1:G:553:THR:HG22	1:G:557:GLU:OE2	2.17	0.45
2:H:103:VAL:HG23	2:H:140:TYR:CD2	2.52	0.45
1:A:162:ARG:HG3	1:A:166:GLN:HG2	1.99	0.45
1:A:464:LEU:HD21	1:A:466:ILE:HG21	1.99	0.45
1:A:469:PHE:CD1	1:A:483:ASN:ND2	2.84	0.45
1:A:700:LEU:CG	1:A:704:GLN:HE21	2.30	0.45
1:C:247:ARG:HH22	1:C:470:GLU:CD	2.19	0.45
1:C:272:LEU:HD21	1:C:435:PHE:CE2	2.52	0.45
1:C:697:ASP:CG	1:C:700:LEU:HB3	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:509:GLY:O	1:E:510:ILE:C	2.53	0.45
1:E:812:PHE:CZ	2:F:17:LEU:HD23	2.38	0.45
1:G:36:TRP:CE2	1:G:78:MET:HG3	2.51	0.45
1:G:172:SER:O	1:G:680:ASN:N	2.50	0.45
1:G:272:LEU:HD21	1:G:435:PHE:CE2	2.52	0.45
2:H:27:LEU:HD23	2:H:28:TYR:H	1.81	0.45
1:A:234:PHE:HB3	1:A:289:ILE:CG2	2.38	0.44
1:A:301:MET:CE	1:A:305:LEU:HD11	2.47	0.44
1:A:352:ILE:HG23	1:A:620:PHE:HZ	1.81	0.44
1:A:391:MET:HB3	1:A:393:ILE:CG1	2.47	0.44
1:A:505:TYR:CB	1:A:510:ILE:HD11	2.48	0.44
1:C:87:GLU:OE1	1:C:107:ARG:NH2	2.49	0.44
1:C:425:PHE:CD1	1:C:425:PHE:C	2.90	0.44
1:C:726:VAL:HA	1:C:773:LYS:HA	1.98	0.44
1:E:44:PHE:CD2	1:E:98:ALA:HA	2.52	0.44
1:E:276:ARG:HG2	1:E:287:PHE:HE1	1.83	0.44
1:E:305:LEU:HB2	1:E:307:LEU:HD23	1.98	0.44
1:E:354:ARG:HG3	1:E:355:VAL:N	2.31	0.44
1:E:526:GLU:C	1:E:528:ILE:N	2.71	0.44
2:F:27:LEU:HD23	2:F:28:TYR:H	1.81	0.44
1:G:399:THR:O	1:G:403:LEU:HB2	2.17	0.44
2:H:143:LEU:O	2:H:147:VAL:HG22	2.16	0.44
1:A:247:ARG:HH22	1:A:470:GLU:CD	2.20	0.44
1:A:305:LEU:HB2	1:A:307:LEU:HD23	1.98	0.44
1:A:425:PHE:CD1	1:A:425:PHE:C	2.91	0.44
1:A:504:GLU:HG3	1:A:775:PHE:HZ	1.82	0.44
1:A:526:GLU:C	1:A:528:ILE:N	2.71	0.44
1:A:663:TYR:C	1:A:665:GLU:N	2.71	0.44
1:A:703:GLU:HA	1:A:706:ARG:HD3	1.98	0.44
1:A:788:ARG:HH22	2:B:95:PHE:HE1	1.65	0.44
1:A:809:ARG:HG2	1:A:809:ARG:H	1.38	0.44
1:C:44:PHE:HD2	1:C:101:LEU:HD22	1.83	0.44
1:C:308:GLU:HB2	1:C:313:TYR:HE1	1.82	0.44
1:C:399:THR:O	1:C:403:LEU:HB2	2.17	0.44
1:C:476:SER:HB3	1:C:479:GLN:NE2	2.32	0.44
1:C:487:GLU:OE1	1:C:585:HIS:ND1	2.45	0.44
1:C:553:THR:HG22	1:C:557:GLU:OE2	2.17	0.44
1:C:735:GLU:O	1:C:738:ALA:C	2.55	0.44
2:D:89:VAL:HA	2:D:92:LEU:HG	1.99	0.44
1:E:272:LEU:HD21	1:E:435:PHE:CE2	2.52	0.44
1:E:505:TYR:CB	1:E:510:ILE:HD11	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:563:GLN:O	1:E:565:ASN:N	2.50	0.44
1:G:22:ASN:O	1:G:22:ASN:ND2	2.50	0.44
1:G:76:GLN:OE1	1:G:96:ASN:HB3	2.17	0.44
1:G:305:LEU:HB3	1:G:354:ARG:HA	1.98	0.44
1:G:310:PHE:CE1	1:G:320:HIS:HD2	2.34	0.44
1:G:394:ASN:OD1	1:G:397:ASP:HB2	2.18	0.44
1:G:504:GLU:HG3	1:G:775:PHE:HZ	1.83	0.44
1:G:505:TYR:CB	1:G:510:ILE:HD11	2.48	0.44
1:G:809:ARG:HG2	1:G:809:ARG:H	1.38	0.44
1:A:126:PRO:O	1:A:127:TYR:HB2	2.18	0.44
1:A:238:LYS:HB3	1:A:285:ARG:HG3	2.00	0.44
1:A:278:ILE:HG13	1:A:279:ARG:H	1.81	0.44
1:A:305:LEU:HB3	1:A:354:ARG:HA	1.98	0.44
1:A:503:GLU:H	1:A:503:GLU:HG2	1.60	0.44
1:A:520:ASP:OD1	1:A:522:GLN:HB2	2.16	0.44
2:B:27:LEU:HD23	2:B:28:TYR:H	1.82	0.44
2:B:70:LEU:CD1	2:B:74:GLN:HE21	2.30	0.44
1:C:72:LYS:HG2	1:C:72:LYS:O	2.17	0.44
1:C:172:SER:O	1:C:680:ASN:N	2.50	0.44
1:C:269:THR:OG1	1:C:439:PHE:HE2	1.98	0.44
1:E:48:SER:O	1:E:59:VAL:HG12	2.18	0.44
1:E:164:MET:HE1	1:E:256:PHE:CE2	2.49	0.44
1:E:247:ARG:HH22	1:E:470:GLU:CD	2.19	0.44
1:E:313:TYR:N	1:E:313:TYR:HD1	2.14	0.44
1:E:399:THR:HG22	1:E:403:LEU:HD12	1.99	0.44
1:E:464:LEU:HD21	1:E:466:ILE:HG21	1.98	0.44
1:G:301:MET:CE	1:G:305:LEU:HD11	2.47	0.44
1:G:425:PHE:CD1	1:G:425:PHE:C	2.90	0.44
1:G:547:PHE:CD2	1:G:549:LYS:N	2.85	0.44
2:H:84:CYS:O	2:H:85:PHE:O	2.36	0.44
1:A:48:SER:O	1:A:59:VAL:HG12	2.18	0.44
1:A:172:SER:O	1:A:680:ASN:N	2.51	0.44
2:B:3:PHE:CZ	2:B:73:MET:HE3	2.53	0.44
1:C:89:MET:SD	1:C:100:VAL:HG13	2.58	0.44
1:C:293:LEU:CD1	1:C:301:MET:HE1	2.48	0.44
1:C:504:GLU:HG3	1:C:775:PHE:HZ	1.83	0.44
2:D:70:LEU:CD1	2:D:74:GLN:HE21	2.30	0.44
2:D:103:VAL:CG1	2:D:107:GLU:HB3	2.47	0.44
1:E:22:ASN:O	1:E:22:ASN:ND2	2.50	0.44
1:E:487:GLU:HG3	1:E:521:LEU:CD1	2.47	0.44
1:E:553:THR:HG22	1:E:557:GLU:OE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:778:THR:C	1:E:780:VAL:H	2.19	0.44
2:F:105:GLY:HA2	2:F:138:ILE:HD12	2.00	0.44
1:G:27:ALA:O	1:G:29:TRP:HD1	2.01	0.44
1:G:48:SER:O	1:G:59:VAL:HG12	2.18	0.44
1:G:274:LYS:HZ2	1:G:432:LYS:HD2	1.82	0.44
1:G:323:ILE:HG23	1:G:323:ILE:O	2.17	0.44
1:G:476:SER:HB3	1:G:479:GLN:NE2	2.32	0.44
2:H:135:ASN:N	2:H:135:ASN:HD22	2.16	0.44
1:A:72:LYS:O	1:A:72:LYS:HG2	2.18	0.44
1:A:742:ILE:HD11	1:A:752:ALA:C	2.37	0.44
1:C:231:LEU:HD23	1:C:231:LEU:H	1.83	0.44
1:C:305:LEU:HB3	1:C:354:ARG:HA	1.98	0.44
1:C:394:ASN:OD1	1:C:397:ASP:HB2	2.18	0.44
1:C:464:LEU:HD21	1:C:466:ILE:HG21	1.98	0.44
2:D:105:GLY:HA2	2:D:138:ILE:HD12	2.00	0.44
1:E:89:MET:SD	1:E:100:VAL:HG13	2.58	0.44
1:E:126:PRO:O	1:E:127:TYR:HB2	2.18	0.44
1:E:144:LYS:HG2	1:E:149:MET:HG3	1.98	0.44
1:E:182:GLY:N	4:E:998:ADP:O1B	2.44	0.44
1:E:323:ILE:HG23	1:E:323:ILE:O	2.18	0.44
1:E:700:LEU:CG	1:E:704:GLN:HE21	2.31	0.44
1:E:805:GLY:O	1:E:809:ARG:NE	2.50	0.44
2:F:71:PRO:HA	2:F:74:GLN:OE1	2.18	0.44
2:F:119:MET:HB3	2:F:123:GLU:CB	2.47	0.44
1:G:231:LEU:HD23	1:G:231:LEU:H	1.83	0.44
1:G:621:VAL:HA	1:G:624:LEU:HB2	2.00	0.44
1:G:697:ASP:CG	1:G:700:LEU:HB3	2.38	0.44
2:H:23:ASP:HB3	2:H:25:LYS:CD	2.48	0.44
1:A:173:ILE:HA	1:A:680:ASN:HB2	1.99	0.44
1:A:610:THR:HG22	1:A:611:SER:N	2.31	0.44
1:A:619:LYS:O	1:A:623:ASP:N	2.41	0.44
2:B:113:VAL:O	2:B:113:VAL:HG12	2.18	0.44
1:C:301:MET:CE	1:C:305:LEU:HD11	2.47	0.44
1:C:424:ASP:O	1:C:427:ILE:HG22	2.18	0.44
1:C:621:VAL:HA	1:C:624:LEU:HB2	2.00	0.44
1:C:742:ILE:O	1:C:743:PRO:O	2.36	0.44
2:D:3:PHE:CZ	2:D:73:MET:HE3	2.53	0.44
1:E:95:LEU:HD11	1:E:714:ILE:HG22	1.98	0.44
1:E:275:SER:CB	1:E:478:GLU:OE2	2.66	0.44
2:F:3:PHE:CZ	2:F:73:MET:HE3	2.51	0.44
1:G:33:LYS:O	1:G:48:SER:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:39:SER:OG	1:G:42:HIS:N	2.43	0.44
1:G:72:LYS:O	1:G:72:LYS:HG2	2.17	0.44
1:G:184:THR:O	1:G:187:THR:N	2.48	0.44
1:G:238:LYS:HB3	1:G:285:ARG:HG3	2.00	0.44
1:G:500:LEU:O	1:G:503:GLU:HG2	2.17	0.44
1:G:700:LEU:CG	1:G:704:GLN:HE21	2.31	0.44
1:G:774:ILE:HB	1:G:776:PHE:CE2	2.53	0.44
2:H:58:GLU:H	2:H:58:GLU:HG2	1.37	0.44
1:A:275:SER:CB	1:A:478:GLU:OE2	2.66	0.44
1:A:361:GLN:C	1:A:363:GLY:H	2.20	0.44
1:C:44:PHE:CD2	1:C:98:ALA:HA	2.53	0.44
1:C:48:SER:O	1:C:59:VAL:HG12	2.18	0.44
1:C:137:ILE:HD13	1:C:137:ILE:N	2.32	0.44
1:C:405:PRO:HB2	1:C:407:ILE:CD1	2.48	0.44
1:C:509:GLY:O	1:C:510:ILE:C	2.54	0.44
1:C:663:TYR:C	1:C:665:GLU:N	2.71	0.44
2:D:28:TYR:CD1	2:D:62:LYS:HB3	2.53	0.44
1:E:33:LYS:O	1:E:48:SER:HA	2.18	0.44
1:E:721:PHE:CD1	1:E:721:PHE:N	2.85	0.44
1:E:735:GLU:O	1:E:738:ALA:C	2.56	0.44
2:F:103:VAL:CG1	2:F:107:GLU:HB3	2.47	0.44
2:F:135:ASN:N	2:F:135:ASN:HD22	2.16	0.44
1:G:89:MET:SD	1:G:100:VAL:HG13	2.58	0.44
1:G:137:ILE:HD13	1:G:137:ILE:N	2.32	0.44
1:G:227:ALA:N	1:G:229:PRO:HD2	2.33	0.44
1:G:424:ASP:O	1:G:427:ILE:HG22	2.18	0.44
1:G:805:GLY:C	1:G:809:ARG:NE	2.71	0.44
2:H:4:SER:O	2:H:8:THR:OG1	2.27	0.44
2:B:89:VAL:O	2:B:90:GLU:C	2.55	0.44
1:C:22:ASN:ND2	1:C:22:ASN:O	2.50	0.44
1:C:162:ARG:HG3	1:C:166:GLN:HG2	1.99	0.44
1:C:442:ILE:H	1:C:442:ILE:HG12	1.60	0.44
1:C:545:CYS:HB2	1:C:598:LEU:CB	2.48	0.44
1:C:805:GLY:O	1:C:809:ARG:NE	2.50	0.44
1:E:80:PRO:C	1:E:82:LYS:H	2.21	0.44
1:E:408:LYS:C	1:E:410:GLY:H	2.21	0.44
2:F:25:LYS:HE3	2:F:65:LYS:HZ3	1.82	0.44
1:G:254:ILE:HG21	1:G:262:ILE:HG12	2.00	0.44
1:G:276:ARG:HG2	1:G:287:PHE:HE1	1.82	0.44
1:G:735:GLU:O	1:G:738:ALA:C	2.55	0.44
1:G:805:GLY:O	1:G:809:ARG:NE	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:122:VAL:O	1:A:123:VAL:HG23	2.18	0.44
1:A:352:ILE:O	1:A:355:VAL:HB	2.18	0.44
1:A:399:THR:O	1:A:403:LEU:HB2	2.18	0.44
1:A:405:PRO:HB2	1:A:407:ILE:CD1	2.48	0.44
2:B:86:GLU:CD	2:B:86:GLU:N	2.72	0.44
1:C:10:GLU:C	1:C:12:PHE:H	2.20	0.44
1:C:122:VAL:O	1:C:123:VAL:HG23	2.18	0.44
1:C:144:LYS:HA	1:C:144:LYS:HD3	1.82	0.44
1:C:226:GLN:CG	1:C:338:ALA:HA	2.46	0.44
1:C:352:ILE:HG23	1:C:620:PHE:HZ	1.82	0.44
1:C:362:LEU:HD21	1:C:387:VAL:CG1	2.47	0.44
1:C:805:GLY:CA	1:C:809:ARG:HE	2.31	0.44
1:C:805:GLY:C	1:C:809:ARG:NE	2.71	0.44
1:E:120:PHE:CD1	1:E:120:PHE:N	2.71	0.44
1:E:352:ILE:O	1:E:355:VAL:HB	2.17	0.44
1:E:476:SER:HB3	1:E:479:GLN:NE2	2.32	0.44
2:F:143:LEU:O	2:F:147:VAL:HG22	2.16	0.44
1:G:399:THR:HG22	1:G:403:LEU:HD12	1.99	0.44
1:A:80:PRO:C	1:A:82:LYS:H	2.21	0.43
1:A:89:MET:SD	1:A:100:VAL:HG13	2.58	0.43
1:A:323:ILE:HG23	1:A:323:ILE:O	2.18	0.43
1:A:441:TRP:HE3	1:A:442:ILE:HD13	1.79	0.43
2:B:135:ASN:N	2:B:135:ASN:HD22	2.16	0.43
1:C:323:ILE:HG23	1:C:323:ILE:O	2.18	0.43
1:C:481:CYS:CA	1:C:484:TYR:HB3	2.48	0.43
1:C:505:TYR:CB	1:C:510:ILE:HD11	2.47	0.43
1:C:672:THR:O	1:C:676:ASN:ND2	2.51	0.43
1:E:72:LYS:O	1:E:72:LYS:HG2	2.18	0.43
1:E:254:ILE:HG21	1:E:262:ILE:HG12	2.00	0.43
1:E:268:GLU:O	1:E:270:TYR:CD1	2.71	0.43
1:E:308:GLU:HB2	1:E:313:TYR:HE1	1.82	0.43
1:E:672:THR:O	1:E:676:ASN:ND2	2.51	0.43
2:F:113:VAL:HG12	2:F:113:VAL:O	2.18	0.43
1:G:275:SER:CB	1:G:478:GLU:OE2	2.66	0.43
1:G:352:ILE:O	1:G:355:VAL:HB	2.18	0.43
1:G:405:PRO:HB2	1:G:407:ILE:HD11	2.00	0.43
1:G:663:TYR:C	1:G:665:GLU:N	2.70	0.43
1:G:805:GLY:CA	1:G:809:ARG:HE	2.31	0.43
2:H:16:GLN:HG2	2:H:16:GLN:H	1.41	0.43
2:H:28:TYR:CD1	2:H:62:LYS:HB3	2.53	0.43
1:A:227:ALA:N	1:A:229:PRO:HD2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:368:LYS:HZ3	1:A:379:PRO:CG	2.30	0.43
1:A:370:GLU:O	1:A:374:ASP:HA	2.18	0.43
1:A:487:GLU:HG3	1:A:521:LEU:CD1	2.47	0.43
1:A:672:THR:O	1:A:676:ASN:ND2	2.51	0.43
1:A:774:ILE:HB	1:A:776:PHE:CE2	2.53	0.43
1:A:805:GLY:O	1:A:809:ARG:NE	2.51	0.43
1:A:818:GLN:HE21	1:A:818:GLN:HB3	1.61	0.43
2:B:105:GLY:HA2	2:B:138:ILE:HD12	2.00	0.43
1:C:274:LYS:HG3	1:C:274:LYS:H	1.50	0.43
1:C:370:GLU:O	1:C:374:ASP:HA	2.18	0.43
1:C:547:PHE:CD1	1:C:549:LYS:N	2.85	0.43
1:C:700:LEU:CG	1:C:704:GLN:HE21	2.31	0.43
1:C:774:ILE:HB	1:C:776:PHE:CE2	2.53	0.43
1:E:162:ARG:HG3	1:E:166:GLN:HG2	1.99	0.43
1:E:172:SER:O	1:E:680:ASN:N	2.51	0.43
1:E:405:PRO:HB2	1:E:407:ILE:CD1	2.48	0.43
1:E:510:ILE:O	1:E:512:TRP:N	2.51	0.43
1:E:699:HIS:O	1:E:702:LEU:HB3	2.18	0.43
2:F:89:VAL:HA	2:F:92:LEU:HG	1.99	0.43
1:G:114:TYR:CE2	1:G:153:ILE:CB	2.88	0.43
1:G:817:GLN:CD	1:G:817:GLN:C	2.77	0.43
1:A:276:ARG:HG2	1:A:287:PHE:HE1	1.83	0.43
1:A:547:PHE:CD1	1:A:549:LYS:N	2.86	0.43
1:A:568:LYS:CD	1:A:584:LEU:O	2.67	0.43
1:A:747:MET:CE	1:A:747:MET:HA	2.47	0.43
2:B:71:PRO:HA	2:B:74:GLN:OE1	2.18	0.43
1:C:125:ASN:CB	1:C:687:PRO:HD3	2.42	0.43
1:C:568:LYS:CD	1:C:584:LEU:O	2.66	0.43
1:C:773:LYS:HD2	1:C:775:PHE:CE1	2.53	0.43
1:E:614:ASN:HB2	1:E:628:VAL:HG11	1.98	0.43
1:E:806:TYR:CB	2:F:147:VAL:HG12	2.49	0.43
1:E:812:PHE:CE1	2:F:17:LEU:CD2	3.01	0.43
2:F:15:PHE:HZ	2:F:64:LEU:O	2.01	0.43
1:G:405:PRO:HB2	1:G:407:ILE:CD1	2.48	0.43
1:G:545:CYS:HB2	1:G:598:LEU:CB	2.48	0.43
1:G:728:GLN:CA	1:G:728:GLN:NE2	2.81	0.43
1:A:10:GLU:C	1:A:12:PHE:H	2.20	0.43
1:A:405:PRO:HB2	1:A:407:ILE:HD11	2.01	0.43
1:A:408:LYS:C	1:A:410:GLY:H	2.21	0.43
1:A:510:ILE:O	1:A:512:TRP:N	2.52	0.43
1:A:715:ARG:O	1:A:719:GLN:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:803:CYS:HB3	2:B:127:LEU:HD22	2.00	0.43
1:C:126:PRO:O	1:C:127:TYR:HB2	2.17	0.43
1:C:275:SER:CB	1:C:478:GLU:OE2	2.66	0.43
1:C:391:MET:O	1:C:618:ASP:CB	2.67	0.43
2:D:43:THR:C	2:D:45:ALA:H	2.22	0.43
2:D:71:PRO:HA	2:D:74:GLN:OE1	2.18	0.43
1:E:404:THR:OG1	1:E:404:THR:O	2.33	0.43
1:E:742:ILE:HD11	1:E:752:ALA:C	2.37	0.43
1:G:10:GLU:C	1:G:12:PHE:H	2.20	0.43
1:G:182:GLY:N	4:G:998:ADP:O1B	2.47	0.43
1:G:352:ILE:HG23	1:G:620:PHE:HZ	1.82	0.43
1:G:365:ILE:HD12	1:G:427:ILE:HD11	2.00	0.43
1:G:408:LYS:C	1:G:410:GLY:H	2.21	0.43
1:G:568:LYS:CD	1:G:584:LEU:O	2.66	0.43
1:A:362:LEU:HD23	1:A:387:VAL:HG11	1.98	0.43
1:A:424:ASP:O	1:A:427:ILE:HG22	2.17	0.43
1:A:750:LYS:O	1:A:754:ILE:HD12	2.19	0.43
1:C:33:LYS:O	1:C:48:SER:HA	2.18	0.43
1:C:80:PRO:C	1:C:82:LYS:H	2.22	0.43
1:C:397:ASP:HB3	1:C:612:LEU:HD11	1.98	0.43
1:C:522:GLN:N	1:C:523:PRO:CD	2.81	0.43
1:C:526:GLU:C	1:C:528:ILE:N	2.71	0.43
1:C:543:GLU:O	1:C:546:TRP:N	2.45	0.43
1:C:613:LEU:HD22	1:C:621:VAL:HG12	2.01	0.43
1:C:728:GLN:CA	1:C:728:GLN:NE2	2.81	0.43
1:C:816:GLN:O	1:C:819:LEU:CG	2.66	0.43
2:D:15:PHE:HZ	2:D:64:LEU:O	2.01	0.43
1:E:238:LYS:HB3	1:E:285:ARG:HG3	2.00	0.43
1:E:613:LEU:HD22	1:E:621:VAL:HG12	2.01	0.43
1:E:742:ILE:O	1:E:743:PRO:O	2.36	0.43
2:F:108:ILE:HD13	2:F:108:ILE:HA	1.73	0.43
2:H:43:THR:C	2:H:45:ALA:H	2.22	0.43
1:A:33:LYS:O	1:A:48:SER:HA	2.18	0.43
1:A:476:SER:HB3	1:A:479:GLN:NE2	2.32	0.43
1:A:513:ASN:ND2	1:A:513:ASN:C	2.72	0.43
1:A:545:CYS:HB2	1:A:598:LEU:CB	2.48	0.43
1:A:547:PHE:HE1	1:A:549:LYS:CB	2.23	0.43
1:A:721:PHE:N	1:A:721:PHE:CD1	2.87	0.43
2:B:64:LEU:HD11	2:B:72:MET:HE3	2.00	0.43
1:C:76:GLN:HG2	1:C:96:ASN:CG	2.39	0.43
1:C:152:HIS:O	1:C:155:ALA:CB	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:193:TYR:CE1	1:C:197:VAL:HG11	2.54	0.43
1:C:442:ILE:O	1:C:445:ARG:N	2.39	0.43
2:D:85:PHE:O	2:D:86:GLU:C	2.57	0.43
1:E:27:ALA:O	1:E:29:TRP:HD1	2.01	0.43
1:E:32:LYS:HG2	1:E:32:LYS:H	1.38	0.43
1:E:231:LEU:HD23	1:E:231:LEU:H	1.84	0.43
1:E:253:ARG:O	1:E:265:ALA:HA	2.18	0.43
1:E:302:ARG:CB	1:E:302:ARG:HH11	2.32	0.43
1:E:427:ILE:HG13	1:E:430:LEU:HD23	2.01	0.43
1:E:504:GLU:HG3	1:E:775:PHE:HZ	1.83	0.43
1:E:526:GLU:C	1:E:528:ILE:H	2.22	0.43
1:E:567:ALA:C	1:E:569:PHE:H	2.22	0.43
1:E:697:ASP:CG	1:E:700:LEU:HB3	2.38	0.43
2:F:109:ARG:HG2	2:F:124:VAL:HB	2.00	0.43
1:G:308:GLU:HB2	1:G:313:TYR:HE1	1.82	0.43
1:G:391:MET:O	1:G:618:ASP:CB	2.67	0.43
1:G:803:CYS:HB3	2:H:127:LEU:HD22	2.00	0.43
2:H:113:VAL:CG2	2:H:124:VAL:CG1	2.95	0.43
1:A:391:MET:O	1:A:618:ASP:CB	2.67	0.43
1:A:553:THR:HG22	1:A:557:GLU:OE2	2.17	0.43
1:A:699:HIS:O	1:A:702:LEU:HB3	2.19	0.43
1:A:742:ILE:O	1:A:743:PRO:O	2.36	0.43
2:B:115:LEU:HD12	2:B:115:LEU:N	2.34	0.43
1:C:238:LYS:HB3	1:C:285:ARG:HG3	2.00	0.43
1:C:405:PRO:HB2	1:C:407:ILE:HD11	2.01	0.43
1:C:817:GLN:CD	1:C:817:GLN:C	2.77	0.43
1:E:122:VAL:O	1:E:123:VAL:HG23	2.19	0.43
1:E:145:LYS:HE3	1:E:145:LYS:HB2	1.67	0.43
1:E:227:ALA:N	1:E:229:PRO:HD2	2.33	0.43
1:E:434:LYS:CG	1:E:625:TRP:HZ2	2.30	0.43
1:E:773:LYS:HD2	1:E:775:PHE:CE1	2.54	0.43
1:E:803:CYS:HB3	2:F:127:LEU:HD22	2.00	0.43
2:F:122:GLU:H	2:F:122:GLU:HG2	1.62	0.43
1:G:145:LYS:HE3	1:G:145:LYS:HB2	1.67	0.43
1:G:526:GLU:C	1:G:528:ILE:N	2.71	0.43
1:G:613:LEU:HD22	1:G:621:VAL:HG12	2.01	0.43
2:H:15:PHE:HZ	2:H:64:LEU:O	2.01	0.43
2:H:31:CYS:HG	2:H:69:PHE:HE2	1.66	0.43
1:A:274:LYS:HG3	1:A:274:LYS:H	1.52	0.43
1:A:743:PRO:HG2	1:G:816:GLN:OE1	2.18	0.43
1:A:818:GLN:H	1:A:818:GLN:HG2	1.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:43:THR:C	2:B:45:ALA:H	2.20	0.43
2:B:103:VAL:CG1	2:B:107:GLU:HB3	2.47	0.43
1:C:153:ILE:HA	1:C:156:ILE:CD1	2.46	0.43
1:C:352:ILE:O	1:C:355:VAL:HB	2.17	0.43
1:C:427:ILE:HG13	1:C:430:LEU:HD23	2.01	0.43
1:C:630:ARG:HH22	1:C:657:ARG:HB3	1.77	0.43
1:C:766:LEU:O	1:C:777:ARG:N	2.52	0.43
1:C:803:CYS:HB3	2:D:127:LEU:HD22	2.00	0.43
1:C:809:ARG:HG2	1:C:809:ARG:H	1.38	0.43
2:D:135:ASN:N	2:D:135:ASN:HD22	2.16	0.43
1:E:10:GLU:C	1:E:12:PHE:H	2.20	0.43
1:E:162:ARG:O	1:E:166:GLN:CG	2.63	0.43
1:E:278:ILE:HG21	1:E:432:LYS:HZ3	1.84	0.43
1:E:391:MET:O	1:E:618:ASP:CB	2.67	0.43
1:E:394:ASN:OD1	1:E:397:ASP:HB2	2.18	0.43
1:E:499:ILE:HG22	1:E:500:LEU:N	2.34	0.43
1:G:162:ARG:HG3	1:G:166:GLN:HG2	1.99	0.43
1:G:183:LYS:HB2	4:G:998:ADP:O1B	2.18	0.43
1:G:699:HIS:O	1:G:702:LEU:HB3	2.19	0.43
1:G:773:LYS:HD2	1:G:775:PHE:CE1	2.54	0.43
2:H:105:GLY:HA2	2:H:138:ILE:HD12	2.00	0.43
1:A:95:LEU:HD11	1:A:714:ILE:HG22	2.00	0.43
1:A:399:THR:HG22	1:A:403:LEU:HD12	1.99	0.43
1:A:469:PHE:CE1	1:A:483:ASN:ND2	2.87	0.43
1:A:747:MET:CG	1:G:812:PHE:HE2	2.21	0.43
2:B:53:ASN:N	2:B:54:PRO:CD	2.81	0.43
2:B:96:ASP:O	2:B:97:LYS:C	2.57	0.43
1:C:223:GLN:O	1:C:225:LEU:N	2.52	0.43
1:C:715:ARG:O	1:C:719:GLN:N	2.50	0.43
1:C:742:ILE:HD11	1:C:752:ALA:C	2.37	0.43
1:C:806:TYR:CB	2:D:147:VAL:HG12	2.49	0.43
2:D:40:GLN:HB3	2:D:42:PRO:HD3	2.01	0.43
1:E:424:ASP:O	1:E:427:ILE:HG22	2.18	0.43
1:E:545:CYS:HB2	1:E:598:LEU:CB	2.48	0.43
1:E:669:LYS:O	1:E:672:THR:HB	2.19	0.43
1:G:315:PHE:HD1	1:G:315:PHE:HA	1.70	0.43
1:G:427:ILE:HG13	1:G:430:LEU:HD23	2.01	0.43
1:G:721:PHE:CD1	1:G:721:PHE:N	2.87	0.43
1:G:742:ILE:O	1:G:743:PRO:O	2.36	0.43
1:A:83:PHE:O	1:A:84:SER:C	2.58	0.43
1:A:153:ILE:CG2	1:A:154:TYR:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:256:PHE:HA	1:A:261:TYR:O	2.19	0.43
1:A:302:ARG:CB	1:A:302:ARG:HH11	2.32	0.43
1:A:378:MET:CE	1:A:381:ASN:HA	2.49	0.43
1:A:805:GLY:C	1:A:809:ARG:NE	2.72	0.43
1:A:817:GLN:CD	1:A:817:GLN:C	2.78	0.43
2:B:65:LYS:N	2:B:68:GLN:HE21	2.14	0.43
1:C:253:ARG:O	1:C:265:ALA:HA	2.19	0.43
1:C:310:PHE:CD1	1:C:320:HIS:HD2	2.37	0.43
2:D:96:ASP:O	2:D:97:LYS:C	2.58	0.43
1:E:573:LYS:NZ	1:E:589:LYS:HZ3	2.16	0.43
1:E:728:GLN:CA	1:E:728:GLN:NE2	2.82	0.43
1:E:766:LEU:O	1:E:777:ARG:N	2.51	0.43
1:E:774:ILE:HB	1:E:776:PHE:CE2	2.53	0.43
1:E:817:GLN:CD	1:E:817:GLN:C	2.77	0.43
2:F:96:ASP:O	2:F:97:LYS:C	2.58	0.43
1:G:80:PRO:C	1:G:82:LYS:H	2.21	0.43
1:G:223:GLN:O	1:G:225:LEU:N	2.52	0.43
1:G:347:GLU:H	1:G:347:GLU:HG3	1.47	0.43
2:H:22:GLY:C	2:H:24:GLY:H	2.22	0.43
1:A:176:THR:HG21	1:A:683:ARG:HH21	1.84	0.42
1:A:250:LYS:O	1:A:465:ASP:N	2.50	0.42
1:A:268:GLU:O	1:A:270:TYR:CD1	2.72	0.42
1:A:278:ILE:HG21	1:A:432:LYS:HZ3	1.84	0.42
1:A:310:PHE:CD1	1:A:320:HIS:HD2	2.37	0.42
1:A:567:ALA:C	1:A:569:PHE:H	2.22	0.42
1:A:619:LYS:O	1:A:623:ASP:OD1	2.37	0.42
1:A:773:LYS:HD2	1:A:775:PHE:CE1	2.54	0.42
1:A:809:ARG:NH2	2:B:41:ASN:OD1	2.38	0.42
2:B:23:ASP:HB3	2:B:25:LYS:CD	2.49	0.42
2:B:28:TYR:CD1	2:B:62:LYS:HB3	2.54	0.42
1:C:27:ALA:O	1:C:29:TRP:HD1	2.01	0.42
1:C:145:LYS:HE3	1:C:145:LYS:HB2	1.67	0.42
1:C:227:ALA:N	1:C:229:PRO:HD2	2.33	0.42
1:C:268:GLU:CD	1:C:666:GLN:NE2	2.72	0.42
1:C:347:GLU:H	1:C:347:GLU:HG3	1.47	0.42
1:C:510:ILE:O	1:C:512:TRP:N	2.52	0.42
1:E:76:GLN:CG	1:E:96:ASN:HB3	2.49	0.42
1:E:140:MET:O	1:E:149:MET:HE2	2.19	0.42
1:E:154:TYR:HB3	1:E:193:TYR:CD2	2.54	0.42
1:E:750:LYS:O	1:E:754:ILE:HD12	2.19	0.42
1:E:805:GLY:C	1:E:809:ARG:NE	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:97:LYS:HG3	2:F:98:GLU:HG3	2.01	0.42
1:G:122:VAL:O	1:G:123:VAL:HG23	2.18	0.42
1:G:184:THR:O	1:G:187:THR:HB	2.19	0.42
1:G:268:GLU:CD	1:G:666:GLN:NE2	2.72	0.42
1:G:296:GLY:HA3	1:G:332:PHE:CG	2.54	0.42
1:G:370:GLU:O	1:G:374:ASP:HA	2.18	0.42
1:G:513:ASN:ND2	1:G:513:ASN:C	2.72	0.42
1:G:669:LYS:O	1:G:672:THR:HB	2.19	0.42
1:G:672:THR:O	1:G:676:ASN:ND2	2.51	0.42
1:G:816:GLN:O	1:G:819:LEU:CG	2.66	0.42
2:H:113:VAL:O	2:H:113:VAL:HG12	2.18	0.42
1:A:711:LEU:CD2	1:A:711:LEU:H	2.31	0.42
1:A:728:GLN:CA	1:A:728:GLN:NE2	2.81	0.42
2:B:40:GLN:HB3	2:B:42:PRO:HD3	2.00	0.42
2:B:109:ARG:HG2	2:B:124:VAL:HB	2.00	0.42
1:C:276:ARG:HG2	1:C:287:PHE:HE1	1.83	0.42
1:C:757:ILE:HD11	1:C:774:ILE:HD12	2.01	0.42
2:D:64:LEU:HD11	2:D:72:MET:HE3	1.99	0.42
2:D:109:ARG:HG2	2:D:124:VAL:HB	2.00	0.42
2:D:113:VAL:O	2:D:113:VAL:HG12	2.18	0.42
1:E:22:ASN:HA	1:E:23:PRO:HD3	1.83	0.42
1:E:69:THR:C	1:E:70:LEU:HG	2.40	0.42
1:E:184:THR:O	1:E:187:THR:HB	2.20	0.42
1:E:256:PHE:HA	1:E:261:TYR:O	2.20	0.42
1:E:268:GLU:CD	1:E:666:GLN:NE2	2.72	0.42
1:G:193:TYR:CE1	1:G:197:VAL:HG11	2.54	0.42
1:G:310:PHE:CD1	1:G:320:HIS:HD2	2.38	0.42
1:G:381:ASN:HB2	1:G:385:GLN:NE2	2.34	0.42
1:G:499:ILE:HG22	1:G:500:LEU:N	2.35	0.42
1:G:749:GLY:O	1:G:753:CYS:HB3	2.20	0.42
1:G:754:ILE:HG22	1:G:755:LEU:N	2.35	0.42
1:G:766:LEU:O	1:G:777:ARG:N	2.52	0.42
1:A:253:ARG:O	1:A:265:ALA:HA	2.19	0.42
1:A:500:LEU:O	1:A:503:GLU:HG2	2.17	0.42
1:A:526:GLU:C	1:A:528:ILE:H	2.22	0.42
2:B:18:PHE:O	2:B:19:ASP:HB2	2.19	0.42
2:B:22:GLY:C	2:B:24:GLY:H	2.23	0.42
2:B:55:LYS:N	2:B:58:GLU:HG3	2.30	0.42
2:B:144:VAL:C	2:B:147:VAL:HG23	2.39	0.42
1:C:365:ILE:HD12	1:C:427:ILE:HD11	2.00	0.42
1:C:499:ILE:HG22	1:C:500:LEU:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:534:PRO:HA	1:C:535:PRO:HD3	1.96	0.42
1:C:727:PHE:CE1	1:C:773:LYS:N	2.84	0.42
1:C:794:ASP:HA	1:C:797:ILE:HD12	2.01	0.42
2:D:74:GLN:O	2:D:78:LYS:CD	2.68	0.42
1:E:176:THR:HG21	1:E:683:ARG:HH21	1.84	0.42
1:E:193:TYR:CE1	1:E:197:VAL:HG11	2.54	0.42
1:E:568:LYS:CD	1:E:584:LEU:O	2.66	0.42
1:E:749:GLY:O	1:E:753:CYS:HB3	2.20	0.42
2:F:22:GLY:C	2:F:24:GLY:H	2.22	0.42
2:F:119:MET:HB3	2:F:123:GLU:HB3	2.01	0.42
1:G:247:ARG:HH22	1:G:470:GLU:CD	2.19	0.42
1:G:351:SER:O	1:G:354:ARG:HG2	2.20	0.42
1:G:541:LEU:HB2	1:G:555:PHE:CE1	2.55	0.42
1:G:794:ASP:HA	1:G:797:ILE:HD12	2.01	0.42
2:H:51:LEU:HD23	2:H:51:LEU:HA	1.85	0.42
2:H:109:ARG:HG2	2:H:124:VAL:HB	2.00	0.42
1:A:427:ILE:HG13	1:A:430:LEU:HD23	2.01	0.42
1:A:499:ILE:HG22	1:A:500:LEU:N	2.35	0.42
1:A:613:LEU:HD22	1:A:621:VAL:HG12	2.02	0.42
1:C:513:ASN:ND2	1:C:513:ASN:C	2.72	0.42
1:C:563:GLN:C	1:C:565:ASN:H	2.23	0.42
1:C:721:PHE:N	1:C:721:PHE:CD1	2.87	0.42
1:C:750:LYS:O	1:C:754:ILE:HD12	2.19	0.42
1:E:193:TYR:C	1:E:193:TYR:CD1	2.93	0.42
2:F:22:GLY:C	2:F:24:GLY:N	2.73	0.42
2:F:40:GLN:HB3	2:F:42:PRO:HD3	2.01	0.42
2:F:74:GLN:O	2:F:78:LYS:CD	2.68	0.42
1:G:522:GLN:N	1:G:523:PRO:CD	2.81	0.42
2:H:115:LEU:HD12	2:H:115:LEU:N	2.35	0.42
1:A:162:ARG:O	1:A:166:GLN:CG	2.64	0.42
1:A:757:ILE:HD11	1:A:774:ILE:HD12	2.01	0.42
1:A:805:GLY:CA	1:A:809:ARG:HE	2.32	0.42
2:B:119:MET:HB3	2:B:123:GLU:HB3	2.02	0.42
1:C:12:PHE:HD1	1:C:111:GLY:HA3	1.84	0.42
1:C:256:PHE:HA	1:C:261:TYR:O	2.19	0.42
1:C:498:PHE:HD1	1:C:716:ILE:HD11	1.78	0.42
1:C:671:MET:HG2	1:C:675:ARG:NH1	2.35	0.42
1:C:754:ILE:HG22	1:C:755:LEU:N	2.34	0.42
1:E:44:PHE:HE2	1:E:702:LEU:HD11	1.85	0.42
1:E:153:ILE:HA	1:E:156:ILE:CD1	2.45	0.42
1:E:278:ILE:HG13	1:E:279:ARG:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:365:ILE:HD12	1:E:427:ILE:HD11	2.00	0.42
1:E:370:GLU:O	1:E:374:ASP:HA	2.19	0.42
1:E:711:LEU:H	1:E:711:LEU:CD2	2.33	0.42
1:E:809:ARG:HG2	1:E:809:ARG:H	1.38	0.42
2:F:16:GLN:HG2	2:F:16:GLN:H	1.41	0.42
2:F:18:PHE:O	2:F:19:ASP:HB2	2.19	0.42
2:F:28:TYR:CD1	2:F:62:LYS:HB3	2.53	0.42
2:F:115:LEU:HD12	2:F:115:LEU:N	2.34	0.42
1:G:526:GLU:C	1:G:528:ILE:H	2.22	0.42
1:G:551:THR:O	1:G:552:ASP:C	2.58	0.42
1:G:755:LEU:HD12	1:G:755:LEU:HA	1.83	0.42
2:H:55:LYS:HB2	2:H:58:GLU:OE2	2.19	0.42
1:A:48:SER:C	1:A:59:VAL:HG12	2.40	0.42
1:A:193:TYR:CE1	1:A:197:VAL:HG11	2.55	0.42
1:A:358:SER:HB2	1:A:390:LEU:HB2	2.02	0.42
1:A:409:VAL:O	1:A:409:VAL:HG12	2.19	0.42
1:A:481:CYS:CA	1:A:484:TYR:HB3	2.48	0.42
1:A:530:ARG:HA	1:A:531:PRO:HD3	1.73	0.42
1:A:789:ASP:O	1:A:792:ILE:HG13	2.19	0.42
1:A:806:TYR:CB	2:B:147:VAL:HG12	2.49	0.42
2:B:15:PHE:HZ	2:B:64:LEU:O	2.01	0.42
2:B:48:MET:HE3	2:B:59:MET:SD	2.59	0.42
1:C:44:PHE:CE1	1:C:98:ALA:HB2	2.55	0.42
1:C:83:PHE:O	1:C:84:SER:C	2.57	0.42
1:C:551:THR:O	1:C:552:ASP:C	2.58	0.42
2:D:55:LYS:HB2	2:D:58:GLU:OE2	2.19	0.42
1:E:310:PHE:CD1	1:E:320:HIS:HD2	2.38	0.42
1:E:347:GLU:H	1:E:347:GLU:HG3	1.48	0.42
1:G:29:TRP:O	1:G:32:LYS:HE2	2.20	0.42
1:G:69:THR:C	1:G:70:LEU:HG	2.40	0.42
1:G:76:GLN:HE21	1:G:76:GLN:HB2	1.69	0.42
1:G:161:TYR:CE1	1:G:165:LEU:CD1	2.93	0.42
1:G:196:VAL:CG1	1:G:217:TYR:HE2	2.33	0.42
1:G:352:ILE:HG23	1:G:438:LEU:HD11	2.00	0.42
1:G:563:GLN:C	1:G:565:ASN:H	2.23	0.42
1:G:619:LYS:O	1:G:623:ASP:OD1	2.37	0.42
1:G:711:LEU:H	1:G:711:LEU:CD2	2.32	0.42
1:G:717:CYS:O	1:G:722:PRO:HG3	2.20	0.42
1:G:757:ILE:HD11	1:G:774:ILE:HD12	2.01	0.42
2:H:18:PHE:O	2:H:19:ASP:HB2	2.19	0.42
2:H:96:ASP:O	2:H:97:LYS:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:231:LEU:HD23	1:A:231:LEU:H	1.84	0.42
1:A:268:GLU:CD	1:A:666:GLN:NE2	2.72	0.42
1:A:394:ASN:OD1	1:A:397:ASP:HB2	2.18	0.42
1:A:442:ILE:H	1:A:442:ILE:HG12	1.58	0.42
1:A:754:ILE:HG22	1:A:755:LEU:N	2.34	0.42
1:C:29:TRP:O	1:C:32:LYS:HE2	2.20	0.42
1:C:567:ALA:C	1:C:569:PHE:H	2.22	0.42
1:C:619:LYS:O	1:C:623:ASP:OD1	2.37	0.42
1:C:669:LYS:O	1:C:672:THR:HB	2.19	0.42
1:E:378:MET:CE	1:E:381:ASN:HA	2.49	0.42
1:E:541:LEU:HB2	1:E:555:PHE:CE1	2.55	0.42
1:E:717:CYS:O	1:E:722:PRO:HG3	2.20	0.42
2:F:55:LYS:HB2	2:F:58:GLU:OE2	2.19	0.42
1:G:154:TYR:HB3	1:G:193:TYR:CD2	2.54	0.42
1:G:185:GLU:H	1:G:185:GLU:HG2	1.71	0.42
1:G:534:PRO:HA	1:G:535:PRO:HD3	1.96	0.42
2:H:119:MET:HB3	2:H:123:GLU:HB3	2.01	0.42
1:A:253:ARG:HG3	1:A:460:PHE:HD1	1.83	0.42
1:A:254:ILE:HG21	1:A:262:ILE:HG12	2.00	0.42
1:A:278:ILE:HG13	1:A:279:ARG:N	2.34	0.42
1:A:471:ILE:O	1:A:471:ILE:CG1	2.68	0.42
1:A:541:LEU:HB2	1:A:555:PHE:CE1	2.55	0.42
1:A:563:GLN:C	1:A:565:ASN:H	2.23	0.42
2:B:27:LEU:HD21	2:B:60:ASN:C	2.40	0.42
2:B:103:VAL:HG23	2:B:140:TYR:HD2	1.85	0.42
1:C:12:PHE:CE1	1:C:111:GLY:HA3	2.55	0.42
1:C:116:TYR:CE1	1:C:151:PRO:CB	2.94	0.42
1:C:182:GLY:HA2	4:C:998:ADP:PA	2.60	0.42
1:C:250:LYS:O	1:C:465:ASP:N	2.49	0.42
1:C:296:GLY:HA3	1:C:332:PHE:CG	2.54	0.42
1:E:351:SER:O	1:E:354:ARG:HG2	2.20	0.42
1:E:352:ILE:HG23	1:E:438:LEU:HD11	2.00	0.42
1:E:500:LEU:O	1:E:503:GLU:CB	2.68	0.42
1:E:522:GLN:N	1:E:523:PRO:CD	2.80	0.42
1:G:256:PHE:HA	1:G:261:TYR:O	2.19	0.42
1:G:278:ILE:HD13	1:G:432:LYS:HZ1	1.85	0.42
1:G:510:ILE:O	1:G:512:TRP:N	2.52	0.42
1:G:605:LEU:CD2	1:G:632:VAL:HG23	2.40	0.42
1:G:789:ASP:O	1:G:792:ILE:HG13	2.20	0.42
2:H:97:LYS:H	2:H:100:ASN:HD21	1.68	0.42
1:A:69:THR:C	1:A:70:LEU:HG	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:GLY:H	4:A:998:ADP:PB	2.43	0.42
1:A:183:LYS:HE2	4:A:998:ADP:O1B	2.20	0.42
1:A:369:LYS:HB2	1:A:420:LYS:HB3	2.02	0.42
1:A:464:LEU:CD2	1:A:466:ILE:HG23	2.50	0.42
1:A:663:TYR:O	1:A:665:GLU:N	2.53	0.42
1:A:666:GLN:C	1:A:668:THR:H	2.23	0.42
1:A:766:LEU:O	1:A:777:ARG:N	2.52	0.42
1:A:809:ARG:HH22	2:B:41:ASN:HD21	1.67	0.42
2:B:108:ILE:HD13	2:B:108:ILE:HA	1.74	0.42
1:C:154:TYR:HB3	1:C:193:TYR:CD2	2.54	0.42
1:C:254:ILE:HG21	1:C:262:ILE:HG12	2.00	0.42
1:C:278:ILE:HG13	1:C:279:ARG:N	2.34	0.42
1:C:280:GLN:CD	1:C:280:GLN:H	2.24	0.42
1:C:302:ARG:CB	1:C:302:ARG:HH11	2.33	0.42
1:C:351:SER:O	1:C:354:ARG:HG2	2.20	0.42
1:C:727:PHE:CE2	1:C:750:LYS:CB	3.03	0.42
2:D:22:GLY:C	2:D:24:GLY:N	2.73	0.42
2:D:23:ASP:HB3	2:D:25:LYS:CD	2.50	0.42
2:D:44:ASN:HB3	2:D:117:GLU:OE1	2.20	0.42
1:E:116:TYR:CE1	1:E:151:PRO:CB	2.94	0.42
1:E:311:ASN:HD21	1:E:319:GLY:CA	2.33	0.42
1:E:469:PHE:CE1	1:E:483:ASN:ND2	2.88	0.42
1:E:471:ILE:O	1:E:471:ILE:CG1	2.68	0.42
1:E:560:ILE:H	1:E:560:ILE:HG13	1.51	0.42
2:F:25:LYS:HE3	2:F:65:LYS:HZ1	1.81	0.42
1:G:164:MET:HE1	1:G:256:PHE:HE2	1.73	0.42
1:G:278:ILE:HG21	1:G:432:LYS:HZ3	1.83	0.42
1:G:567:ALA:C	1:G:569:PHE:H	2.22	0.42
1:G:806:TYR:CB	2:H:147:VAL:HG12	2.49	0.42
2:H:97:LYS:HG3	2:H:98:GLU:HG3	2.01	0.42
1:A:746:PHE:CB	2:H:10:GLU:HG2	2.47	0.42
2:B:74:GLN:O	2:B:78:LYS:CD	2.68	0.42
1:C:184:THR:O	1:C:187:THR:HB	2.19	0.42
1:C:274:LYS:HZ2	1:C:432:LYS:HD2	1.85	0.42
1:C:358:SER:HB2	1:C:390:LEU:HB2	2.02	0.42
1:C:378:MET:CE	1:C:381:ASN:HA	2.50	0.42
1:C:408:LYS:C	1:C:410:GLY:H	2.21	0.42
1:C:500:LEU:O	1:C:503:GLU:CB	2.68	0.42
1:C:699:HIS:O	1:C:702:LEU:HB3	2.19	0.42
1:C:700:LEU:CD2	1:C:704:GLN:HE21	2.33	0.42
1:E:248:PHE:HB2	1:E:270:TYR:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:405:PRO:HB2	1:E:407:ILE:HD11	2.00	0.42
1:E:409:VAL:O	1:E:409:VAL:HG12	2.19	0.42
1:E:530:ARG:HG2	1:E:532:THR:O	2.20	0.42
1:E:754:ILE:HG22	1:E:755:LEU:N	2.34	0.42
1:E:781:LEU:HD13	1:E:781:LEU:HA	1.78	0.42
1:G:48:SER:C	1:G:59:VAL:HG12	2.40	0.42
1:G:185:GLU:O	1:G:189:LYS:CG	2.64	0.42
1:G:530:ARG:HA	1:G:531:PRO:HD3	1.72	0.42
1:G:581:PHE:N	1:G:581:PHE:HD1	2.18	0.42
1:G:715:ARG:O	1:G:719:GLN:N	2.50	0.42
1:A:154:TYR:HB3	1:A:193:TYR:CD2	2.54	0.41
1:A:522:GLN:N	1:A:523:PRO:CD	2.81	0.41
1:A:671:MET:HG2	1:A:675:ARG:NH1	2.35	0.41
2:B:20:ARG:HE	2:B:20:ARG:HB3	1.49	0.41
1:C:69:THR:C	1:C:70:LEU:HG	2.40	0.41
1:C:89:MET:CG	1:C:92:LEU:HD11	2.32	0.41
1:C:153:ILE:CG2	1:C:154:TYR:N	2.82	0.41
1:C:369:LYS:HB2	1:C:420:LYS:HB3	2.02	0.41
1:C:530:ARG:HG2	1:C:532:THR:O	2.20	0.41
1:C:666:GLN:C	1:C:668:THR:H	2.23	0.41
2:D:119:MET:HB3	2:D:123:GLU:HB3	2.01	0.41
1:E:51:GLU:HB3	1:E:58:THR:CG2	2.50	0.41
1:E:223:GLN:O	1:E:225:LEU:N	2.53	0.41
1:E:621:VAL:HA	1:E:624:LEU:HB2	2.00	0.41
1:E:656:PHE:HB3	1:E:657:ARG:H	1.77	0.41
1:E:789:ASP:O	1:E:792:ILE:HG13	2.20	0.41
2:F:43:THR:C	2:F:45:ALA:H	2.22	0.41
1:G:269:THR:OG1	1:G:439:PHE:HE2	1.98	0.41
1:G:409:VAL:HG12	1:G:409:VAL:O	2.20	0.41
1:G:469:PHE:CE1	1:G:483:ASN:ND2	2.88	0.41
1:G:671:MET:HG2	1:G:675:ARG:NH1	2.35	0.41
2:H:40:GLN:HB3	2:H:42:PRO:HD3	2.02	0.41
1:A:315:PHE:HD1	1:A:315:PHE:HA	1.71	0.41
1:A:365:ILE:HD12	1:A:427:ILE:HD11	2.01	0.41
1:A:483:ASN:O	1:A:486:ASN:HB2	2.21	0.41
1:A:500:LEU:O	1:A:503:GLU:CB	2.69	0.41
1:A:551:THR:N	1:A:554:SER:OG	2.52	0.41
1:A:568:LYS:HD3	1:A:568:LYS:HA	1.90	0.41
1:A:711:LEU:HD22	1:A:711:LEU:N	2.35	0.41
1:A:727:PHE:CE2	1:A:750:LYS:CB	3.03	0.41
2:B:51:LEU:C	2:B:53:ASN:N	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:97:LYS:HG3	2:B:98:GLU:HG3	2.01	0.41
1:C:409:VAL:O	1:C:409:VAL:HG12	2.19	0.41
1:C:581:PHE:N	1:C:581:PHE:HD1	2.18	0.41
1:C:749:GLY:O	1:C:753:CYS:HB3	2.20	0.41
2:D:18:PHE:O	2:D:19:ASP:HB2	2.19	0.41
2:D:97:LYS:H	2:D:100:ASN:HD21	1.68	0.41
2:D:103:VAL:HG23	2:D:140:TYR:HD2	1.85	0.41
1:E:292:TYR:CE2	1:E:331:MET:HB3	2.55	0.41
1:E:296:GLY:HA3	1:E:332:PHE:CG	2.55	0.41
1:E:315:PHE:HD2	1:E:360:LEU:HA	1.85	0.41
1:E:362:LEU:HD21	1:E:387:VAL:CG1	2.47	0.41
1:E:376:ALA:CB	1:E:420:LYS:HA	2.30	0.41
1:E:464:LEU:CD2	1:E:466:ILE:HG23	2.50	0.41
1:E:513:ASN:ND2	1:E:513:ASN:C	2.73	0.41
1:G:153:ILE:CG2	1:G:154:TYR:N	2.82	0.41
1:G:361:GLN:NE2	1:G:386:LYS:HD3	2.35	0.41
1:G:369:LYS:HB2	1:G:420:LYS:HB3	2.02	0.41
1:G:530:ARG:HG2	1:G:532:THR:O	2.20	0.41
1:G:619:LYS:O	1:G:622:ALA:HB3	2.20	0.41
1:G:727:PHE:CE2	1:G:750:LYS:CB	3.03	0.41
2:H:53:ASN:N	2:H:54:PRO:CD	2.83	0.41
1:A:292:TYR:CE2	1:A:331:MET:HB3	2.55	0.41
1:A:301:MET:HE3	1:A:305:LEU:HD11	2.01	0.41
1:A:362:LEU:HD21	1:A:387:VAL:CG1	2.47	0.41
1:A:669:LYS:O	1:A:672:THR:HB	2.19	0.41
2:B:28:TYR:CD2	2:B:54:PRO:HG2	2.54	0.41
2:B:55:LYS:HB2	2:B:58:GLU:OE2	2.19	0.41
1:C:248:PHE:HB2	1:C:270:TYR:O	2.20	0.41
1:C:755:LEU:HA	1:C:755:LEU:HD12	1.83	0.41
1:C:789:ASP:O	1:C:792:ILE:HG13	2.20	0.41
2:D:53:ASN:N	2:D:54:PRO:CD	2.82	0.41
1:E:153:ILE:CG2	1:E:154:TYR:N	2.82	0.41
1:E:173:ILE:HD11	1:E:461:LEU:HD21	2.03	0.41
1:E:315:PHE:HD1	1:E:315:PHE:HA	1.70	0.41
1:E:369:LYS:HB2	1:E:420:LYS:HB3	2.02	0.41
1:E:481:CYS:CA	1:E:484:TYR:HB3	2.48	0.41
1:E:527:LEU:HD12	1:E:566:HIS:ND1	2.35	0.41
1:E:619:LYS:O	1:E:623:ASP:OD1	2.37	0.41
2:F:65:LYS:N	2:F:68:GLN:HE21	2.14	0.41
2:F:141:GLU:O	2:F:142:GLU:HG2	2.20	0.41
1:G:51:GLU:HB3	1:G:58:THR:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:83:PHE:O	1:G:84:SER:C	2.58	0.41
1:G:173:ILE:HD11	1:G:461:LEU:HD21	2.03	0.41
1:G:327:GLN:CG	1:G:329:ASP:HB2	2.51	0.41
1:A:551:THR:O	1:A:552:ASP:C	2.59	0.41
1:A:581:PHE:N	1:A:581:PHE:HD1	2.19	0.41
1:A:621:VAL:HA	1:A:624:LEU:HB2	2.01	0.41
1:A:700:LEU:CD2	1:A:704:GLN:HE21	2.34	0.41
1:A:742:ILE:C	1:A:743:PRO:O	2.59	0.41
1:C:526:GLU:C	1:C:528:ILE:H	2.22	0.41
1:C:757:ILE:HA	1:C:760:LEU:CD1	2.50	0.41
2:D:70:LEU:O	2:D:74:GLN:CD	2.59	0.41
2:D:103:VAL:CG1	2:D:104:MET:H	2.22	0.41
2:D:141:GLU:O	2:D:142:GLU:HG2	2.21	0.41
1:E:77:LYS:NZ	1:E:96:ASN:HD21	2.17	0.41
1:E:268:GLU:HG2	1:E:270:TYR:HH	1.70	0.41
1:E:298:SER:O	1:E:302:ARG:N	2.33	0.41
1:E:302:ARG:HB2	1:E:302:ARG:HH11	1.86	0.41
1:E:551:THR:O	1:E:552:ASP:C	2.58	0.41
1:E:742:ILE:C	1:E:743:PRO:O	2.58	0.41
1:E:794:ASP:HA	1:E:797:ILE:HD12	2.01	0.41
2:F:23:ASP:HB3	2:F:25:LYS:CD	2.50	0.41
2:F:97:LYS:H	2:F:100:ASN:HD21	1.68	0.41
1:G:302:ARG:CB	1:G:302:ARG:HH11	2.32	0.41
1:G:378:MET:CE	1:G:381:ASN:HA	2.50	0.41
1:G:483:ASN:O	1:G:486:ASN:HB2	2.21	0.41
1:A:347:GLU:HA	1:A:350:THR:OG1	2.21	0.41
1:A:376:ALA:CB	1:A:420:LYS:HA	2.30	0.41
1:A:469:PHE:CE2	1:A:471:ILE:HG21	2.55	0.41
1:A:530:ARG:HG2	1:A:532:THR:O	2.20	0.41
2:B:27:LEU:HD22	2:B:59:MET:O	2.21	0.41
2:B:37:ALA:C	2:B:39:GLY:H	2.23	0.41
2:B:141:GLU:O	2:B:142:GLU:HG2	2.21	0.41
1:C:125:ASN:OD1	1:C:126:PRO:CD	2.68	0.41
1:C:760:LEU:H	1:C:760:LEU:HG	1.67	0.41
1:C:809:ARG:NH2	2:D:41:ASN:OD1	2.45	0.41
2:D:26:ILE:HG12	2:D:34:VAL:HG21	2.03	0.41
2:D:27:LEU:HD21	2:D:60:ASN:C	2.41	0.41
1:E:196:VAL:CG1	1:E:217:TYR:HE2	2.33	0.41
1:E:311:ASN:HD22	1:E:311:ASN:HA	1.62	0.41
1:E:483:ASN:O	1:E:486:ASN:HB2	2.20	0.41
1:E:563:GLN:C	1:E:565:ASN:H	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:757:ILE:HD11	1:E:774:ILE:HD12	2.01	0.41
1:E:805:GLY:CA	1:E:809:ARG:HE	2.32	0.41
2:F:26:ILE:HG12	2:F:34:VAL:HG21	2.03	0.41
2:F:144:VAL:C	2:F:147:VAL:HG23	2.40	0.41
1:G:104:LEU:HD12	1:G:705:LEU:HD11	2.03	0.41
1:G:370:GLU:HB2	1:G:375:GLN:O	2.21	0.41
1:G:500:LEU:O	1:G:503:GLU:CB	2.68	0.41
1:G:598:LEU:H	1:G:598:LEU:HG	1.38	0.41
1:G:657:ARG:HH11	1:G:657:ARG:CG	2.34	0.41
1:G:750:LYS:O	1:G:754:ILE:HD12	2.19	0.41
2:H:27:LEU:HD22	2:H:59:MET:O	2.21	0.41
1:A:29:TRP:O	1:A:32:LYS:HE2	2.20	0.41
1:A:104:LEU:HD12	1:A:705:LEU:HD11	2.03	0.41
1:A:186:ASN:HD22	1:A:186:ASN:H	1.69	0.41
1:A:351:SER:O	1:A:354:ARG:HG2	2.20	0.41
1:A:781:LEU:HD13	1:A:781:LEU:HA	1.79	0.41
1:C:48:SER:C	1:C:59:VAL:HG12	2.40	0.41
1:C:135:GLU:OE1	1:C:213:PRO:N	2.54	0.41
1:C:161:TYR:CE1	1:C:165:LEU:CD1	2.93	0.41
1:C:193:TYR:CD1	1:C:193:TYR:C	2.94	0.41
1:C:268:GLU:O	1:C:270:TYR:CD1	2.71	0.41
1:C:434:LYS:CG	1:C:625:TRP:HZ2	2.29	0.41
1:C:464:LEU:CD2	1:C:466:ILE:HG23	2.50	0.41
1:C:469:PHE:CE2	1:C:471:ILE:HG21	2.56	0.41
1:C:711:LEU:H	1:C:711:LEU:CD2	2.32	0.41
1:C:717:CYS:O	1:C:722:PRO:HG3	2.20	0.41
2:D:48:MET:HE3	2:D:59:MET:SD	2.61	0.41
1:E:125:ASN:HB3	1:E:687:PRO:HG3	2.03	0.41
1:E:269:THR:HG22	1:E:443:LEU:HD22	2.03	0.41
1:E:347:GLU:HA	1:E:350:THR:OG1	2.20	0.41
1:E:358:SER:HB2	1:E:390:LEU:HB2	2.01	0.41
2:F:53:ASN:N	2:F:54:PRO:CD	2.83	0.41
2:F:103:VAL:HG23	2:F:140:TYR:HD2	1.85	0.41
1:G:125:ASN:HB3	1:G:687:PRO:HG3	2.03	0.41
1:G:193:TYR:CD1	1:G:193:TYR:C	2.94	0.41
1:G:280:GLN:H	1:G:280:GLN:CD	2.24	0.41
1:G:381:ASN:O	1:G:382:THR:C	2.58	0.41
1:G:410:GLY:C	1:G:412:ASP:H	2.24	0.41
1:G:663:TYR:O	1:G:665:GLU:N	2.54	0.41
1:G:818:GLN:HE21	1:G:818:GLN:HB3	1.61	0.41
2:H:22:GLY:C	2:H:24:GLY:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:26:ILE:HG12	2:H:34:VAL:HG21	2.03	0.41
2:H:141:GLU:O	2:H:142:GLU:HG2	2.20	0.41
1:A:17:LYS:O	1:A:19:PHE:N	2.54	0.41
1:A:749:GLY:O	1:A:753:CYS:HB3	2.20	0.41
1:C:95:LEU:HD11	1:C:714:ILE:HG22	1.99	0.41
1:C:125:ASN:HB3	1:C:687:PRO:HG3	2.03	0.41
1:C:183:LYS:HE2	1:C:183:LYS:HB2	1.69	0.41
1:C:315:PHE:HD2	1:C:360:LEU:HA	1.85	0.41
1:C:361:GLN:NE2	1:C:386:LYS:HD3	2.35	0.41
1:C:711:LEU:N	1:C:711:LEU:HD22	2.36	0.41
1:C:768:ARG:HD3	1:C:768:ARG:HA	1.92	0.41
1:C:776:PHE:HB2	1:C:781:LEU:HD22	2.03	0.41
2:D:27:LEU:HD22	2:D:59:MET:O	2.21	0.41
2:D:97:LYS:HG3	2:D:98:GLU:HG3	2.01	0.41
2:D:111:VAL:C	2:D:113:VAL:H	2.24	0.41
2:D:115:LEU:HD12	2:D:115:LEU:N	2.35	0.41
1:E:48:SER:C	1:E:59:VAL:HG12	2.40	0.41
1:E:128:LYS:HG2	1:E:129:GLN:N	2.35	0.41
1:G:253:ARG:O	1:G:265:ALA:HA	2.19	0.41
1:G:358:SER:HB2	1:G:390:LEU:HB2	2.01	0.41
1:G:586:TYR:CG	1:G:587:ALA:N	2.89	0.41
1:G:666:GLN:C	1:G:668:THR:H	2.23	0.41
2:H:27:LEU:HD21	2:H:60:ASN:C	2.41	0.41
2:H:86:GLU:OE1	2:H:86:GLU:HA	2.21	0.41
1:A:184:THR:O	1:A:187:THR:HB	2.20	0.41
1:A:223:GLN:O	1:A:225:LEU:N	2.53	0.41
1:A:555:PHE:CZ	1:A:559:LEU:HD13	2.56	0.41
1:A:705:LEU:O	1:A:710:VAL:CG2	2.65	0.41
2:B:97:LYS:H	2:B:100:ASN:HD21	1.68	0.41
2:B:111:VAL:C	2:B:113:VAL:H	2.24	0.41
2:B:122:GLU:H	2:B:122:GLU:HG2	1.61	0.41
1:C:170:ASP:OD1	1:C:460:PHE:N	2.52	0.41
1:C:469:PHE:CE1	1:C:483:ASN:ND2	2.88	0.41
2:D:113:VAL:CG2	2:D:124:VAL:CG1	2.95	0.41
1:E:102:HIS:O	1:E:105:ARG:CB	2.69	0.41
2:F:37:ALA:C	2:F:39:GLY:H	2.24	0.41
2:F:113:VAL:CG2	2:F:124:VAL:CG1	2.95	0.41
1:G:162:ARG:O	1:G:162:ARG:HG3	2.20	0.41
1:G:269:THR:HG22	1:G:443:LEU:HD22	2.03	0.41
1:G:527:LEU:HD12	1:G:566:HIS:ND1	2.35	0.41
1:G:553:THR:O	1:G:556:VAL:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:727:PHE:CE1	1:G:773:LYS:N	2.85	0.41
1:A:51:GLU:HB3	1:A:58:THR:HG23	2.03	0.41
1:A:51:GLU:HB3	1:A:58:THR:CG2	2.50	0.41
1:A:128:LYS:HG2	1:A:129:GLN:N	2.35	0.41
1:A:269:THR:OG1	1:A:439:PHE:HE2	1.98	0.41
1:A:296:GLY:HA3	1:A:332:PHE:CG	2.56	0.41
1:A:302:ARG:HB2	1:A:302:ARG:HH11	1.86	0.41
1:A:315:PHE:HD2	1:A:360:LEU:HA	1.86	0.41
1:A:327:GLN:CG	1:A:329:ASP:HB2	2.51	0.41
1:A:603:ASP:N	1:A:604:PRO:HD3	2.35	0.41
1:A:657:ARG:HH11	1:A:657:ARG:CG	2.34	0.41
1:A:717:CYS:O	1:A:722:PRO:HG3	2.20	0.41
1:A:727:PHE:HE2	1:A:750:LYS:HB2	1.86	0.41
1:A:773:LYS:HB2	1:A:773:LYS:HE2	1.90	0.41
1:A:794:ASP:HA	1:A:797:ILE:HD12	2.01	0.41
2:B:22:GLY:C	2:B:24:GLY:N	2.73	0.41
2:B:65:LYS:HE3	2:B:68:GLN:NE2	2.36	0.41
2:B:70:LEU:O	2:B:74:GLN:CD	2.59	0.41
1:C:32:LYS:HG2	1:C:32:LYS:H	1.38	0.41
1:C:51:GLU:HB3	1:C:58:THR:HG23	2.03	0.41
1:C:51:GLU:HB3	1:C:58:THR:CG2	2.50	0.41
1:C:102:HIS:O	1:C:105:ARG:CB	2.69	0.41
1:C:182:GLY:HA2	4:C:998:ADP:O1A	2.21	0.41
1:C:292:TYR:CE2	1:C:331:MET:HB3	2.55	0.41
1:C:327:GLN:CG	1:C:329:ASP:HB2	2.50	0.41
1:C:483:ASN:O	1:C:486:ASN:HB2	2.21	0.41
2:D:65:LYS:HE3	2:D:68:GLN:NE2	2.36	0.41
2:D:108:ILE:CG2	2:D:109:ARG:N	2.76	0.41
1:E:144:LYS:HA	1:E:144:LYS:HD3	1.82	0.41
1:E:145:LYS:HG3	1:E:146:ARG:HD2	2.03	0.41
1:E:253:ARG:HG3	1:E:460:PHE:HD1	1.84	0.41
1:E:361:GLN:HB3	1:E:387:VAL:CG2	2.48	0.41
1:E:410:GLY:C	1:E:412:ASP:H	2.24	0.41
1:E:430:LEU:HG	1:E:431:ALA:N	2.35	0.41
1:E:437:ARG:HE	1:E:625:TRP:CA	2.30	0.41
1:E:469:PHE:CE2	1:E:471:ILE:HG21	2.56	0.41
1:E:563:GLN:C	1:E:565:ASN:N	2.75	0.41
1:E:619:LYS:O	1:E:622:ALA:HB3	2.20	0.41
1:E:727:PHE:CE2	1:E:750:LYS:CB	3.03	0.41
1:E:760:LEU:H	1:E:760:LEU:HG	1.68	0.41
1:G:3:GLN:CA	1:G:18:ASN:HD21	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:122:VAL:C	1:G:123:VAL:HG23	2.41	0.41
1:G:170:ASP:OD1	1:G:460:PHE:N	2.52	0.41
1:G:292:TYR:CE2	1:G:331:MET:HB3	2.55	0.41
1:G:315:PHE:HD2	1:G:360:LEU:HA	1.85	0.41
2:H:74:GLN:O	2:H:78:LYS:CD	2.68	0.41
2:H:103:VAL:HG23	2:H:140:TYR:HD2	1.85	0.41
2:H:116:GLY:O	2:H:118:LYS:HG2	2.21	0.41
2:H:126:GLN:HG3	2:H:126:GLN:H	1.48	0.41
1:A:125:ASN:HB3	1:A:687:PRO:HG3	2.03	0.41
1:A:196:VAL:CG1	1:A:217:TYR:HE2	2.33	0.41
1:A:280:GLN:CD	1:A:280:GLN:H	2.23	0.41
1:A:361:GLN:HB3	1:A:387:VAL:CG2	2.48	0.41
1:A:527:LEU:HD12	1:A:566:HIS:ND1	2.36	0.41
1:A:553:THR:O	1:A:556:VAL:N	2.54	0.41
1:C:742:ILE:C	1:C:743:PRO:O	2.58	0.41
2:D:65:LYS:N	2:D:68:GLN:HE21	2.14	0.41
1:E:162:ARG:O	1:E:162:ARG:HG3	2.20	0.41
1:E:551:THR:O	1:E:598:LEU:HD21	2.21	0.41
2:F:27:LEU:HD21	2:F:60:ASN:C	2.42	0.41
2:F:70:LEU:O	2:F:74:GLN:CD	2.59	0.41
2:F:116:GLY:O	2:F:118:LYS:HG2	2.22	0.41
1:G:119:LEU:HG	1:G:717:CYS:SG	2.61	0.41
1:G:128:LYS:HG2	1:G:129:GLN:N	2.36	0.41
1:G:342:MET:CE	1:G:449:ALA:CB	2.98	0.41
1:G:555:PHE:CZ	1:G:559:LEU:HD13	2.56	0.41
2:H:37:ALA:C	2:H:39:GLY:H	2.24	0.41
2:H:84:CYS:C	2:H:88:TYR:CD2	2.94	0.41
1:A:102:HIS:O	1:A:105:ARG:CB	2.69	0.40
1:A:193:TYR:CD1	1:A:193:TYR:C	2.94	0.40
1:A:248:PHE:HB2	1:A:270:TYR:O	2.20	0.40
1:A:521:LEU:O	1:A:522:GLN:C	2.59	0.40
1:A:727:PHE:CE1	1:A:773:LYS:N	2.85	0.40
1:A:806:TYR:O	1:A:810:LYS:HG2	2.22	0.40
2:B:16:GLN:HG2	2:B:16:GLN:H	1.40	0.40
1:C:119:LEU:HG	1:C:717:CYS:SG	2.61	0.40
1:C:145:LYS:HG3	1:C:146:ARG:HD2	2.03	0.40
1:C:276:ARG:HG2	1:C:287:PHE:CE1	2.56	0.40
1:C:500:LEU:O	1:C:503:GLU:HG2	2.17	0.40
1:C:527:LEU:HD12	1:C:566:HIS:ND1	2.36	0.40
1:C:541:LEU:HB2	1:C:555:PHE:CE1	2.55	0.40
2:D:85:PHE:CE1	2:D:145:ARG:CG	2.98	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:29:TRP:O	1:E:32:LYS:HE2	2.20	0.40
1:E:76:GLN:CD	1:E:96:ASN:HB3	2.40	0.40
1:E:437:ARG:HH21	1:E:625:TRP:HA	1.86	0.40
1:E:495:HIS:CE1	1:E:499:ILE:HG21	2.56	0.40
1:E:586:TYR:CG	1:E:587:ALA:N	2.89	0.40
1:E:700:LEU:CD2	1:E:704:GLN:HE21	2.33	0.40
1:E:776:PHE:HB2	1:E:781:LEU:HD22	2.03	0.40
1:E:816:GLN:O	1:E:819:LEU:CG	2.66	0.40
2:F:65:LYS:HE3	2:F:68:GLN:NE2	2.36	0.40
2:F:111:VAL:C	2:F:113:VAL:H	2.24	0.40
1:G:17:LYS:O	1:G:19:PHE:N	2.54	0.40
1:G:116:TYR:CE1	1:G:151:PRO:CB	2.94	0.40
1:G:122:VAL:O	1:G:123:VAL:CG2	2.70	0.40
1:G:135:GLU:OE1	1:G:213:PRO:N	2.54	0.40
1:G:250:LYS:O	1:G:465:ASP:N	2.49	0.40
1:G:276:ARG:HG2	1:G:287:PHE:CE1	2.56	0.40
1:G:678:ASN:HD22	1:G:679:PRO:CD	2.34	0.40
1:G:776:PHE:HB2	1:G:781:LEU:HD22	2.02	0.40
2:H:70:LEU:O	2:H:74:GLN:CD	2.59	0.40
1:A:145:LYS:HB2	1:A:145:LYS:HE3	1.67	0.40
1:C:22:ASN:HA	1:C:23:PRO:HD3	1.84	0.40
1:C:122:VAL:C	1:C:123:VAL:HG23	2.41	0.40
1:C:555:PHE:CZ	1:C:559:LEU:HD13	2.56	0.40
1:C:806:TYR:O	1:C:810:LYS:HG2	2.21	0.40
1:C:814:LYS:HG3	1:C:815:ARG:N	2.36	0.40
1:E:553:THR:O	1:E:556:VAL:N	2.55	0.40
1:E:657:ARG:HH11	1:E:657:ARG:CG	2.34	0.40
1:E:755:LEU:HD12	1:E:755:LEU:HA	1.82	0.40
1:G:176:THR:HG21	1:G:683:ARG:HH21	1.85	0.40
1:G:464:LEU:CD2	1:G:466:ILE:HG23	2.50	0.40
1:G:469:PHE:CE2	1:G:471:ILE:HG21	2.56	0.40
1:G:521:LEU:O	1:G:522:GLN:C	2.60	0.40
1:G:700:LEU:CD2	1:G:704:GLN:HE21	2.33	0.40
1:G:711:LEU:HD22	1:G:711:LEU:N	2.36	0.40
1:G:715:ARG:O	1:G:719:GLN:HG3	2.20	0.40
1:A:76:GLN:OE1	1:A:96:ASN:HB3	2.22	0.40
1:A:128:LYS:HB3	1:A:130:LEU:HD21	2.04	0.40
1:A:167:ASP:O	1:A:168:ARG:O	2.40	0.40
1:A:269:THR:HG22	1:A:443:LEU:HD22	2.03	0.40
1:A:513:ASN:C	1:A:513:ASN:HD22	2.25	0.40
1:A:557:GLU:CD	1:A:557:GLU:H	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:122:VAL:O	1:C:123:VAL:CG2	2.70	0.40
1:C:136:LYS:O	1:C:139:ASP:HB2	2.22	0.40
1:C:196:VAL:HG12	1:C:217:TYR:CD2	2.57	0.40
1:C:410:GLY:C	1:C:412:ASP:H	2.24	0.40
1:C:430:LEU:HG	1:C:431:ALA:N	2.34	0.40
1:C:563:GLN:C	1:C:565:ASN:N	2.74	0.40
1:C:619:LYS:O	1:C:622:ALA:HB3	2.20	0.40
1:C:663:TYR:O	1:C:665:GLU:N	2.54	0.40
2:D:22:GLY:C	2:D:24:GLY:H	2.23	0.40
1:E:119:LEU:HG	1:E:717:CYS:SG	2.61	0.40
1:E:135:GLU:OE1	1:E:213:PRO:N	2.55	0.40
1:E:167:ASP:O	1:E:168:ARG:O	2.40	0.40
1:E:327:GLN:CG	1:E:329:ASP:HB2	2.51	0.40
1:E:381:ASN:O	1:E:382:THR:C	2.59	0.40
1:E:555:PHE:CZ	1:E:559:LEU:HD13	2.56	0.40
1:E:575:LEU:HD23	1:E:575:LEU:HA	1.81	0.40
1:E:663:TYR:O	1:E:665:GLU:N	2.54	0.40
1:E:751:GLN:O	1:E:751:GLN:HG2	2.22	0.40
1:G:274:LYS:HG3	1:G:274:LYS:H	1.50	0.40
1:G:500:LEU:O	1:G:503:GLU:HG3	2.21	0.40
1:G:618:ASP:O	1:G:622:ALA:N	2.54	0.40
2:H:88:TYR:HD1	2:H:88:TYR:HA	1.79	0.40
1:A:64:ASN:O	1:A:66:LYS:N	2.55	0.40
1:A:119:LEU:HG	1:A:717:CYS:SG	2.61	0.40
1:A:495:HIS:CE1	1:A:499:ILE:HG21	2.56	0.40
1:A:563:GLN:C	1:A:565:ASN:N	2.75	0.40
1:A:605:LEU:CD2	1:A:632:VAL:HG23	2.40	0.40
1:A:751:GLN:O	1:A:751:GLN:HG2	2.21	0.40
2:B:58:GLU:O	2:B:62:LYS:HG3	2.21	0.40
1:C:269:THR:HG22	1:C:443:LEU:HD22	2.03	0.40
1:C:296:GLY:HA3	1:C:332:PHE:CD2	2.56	0.40
1:E:3:GLN:CA	1:E:18:ASN:HD21	2.34	0.40
1:E:136:LYS:O	1:E:139:ASP:HB2	2.22	0.40
2:F:51:LEU:C	2:F:53:ASN:N	2.75	0.40
1:G:248:PHE:HB2	1:G:270:TYR:O	2.20	0.40
1:G:311:ASN:HD22	1:G:311:ASN:HA	1.65	0.40
1:G:471:ILE:O	1:G:471:ILE:CG1	2.68	0.40
1:G:742:ILE:C	1:G:743:PRO:O	2.58	0.40
1:G:773:LYS:HB2	1:G:773:LYS:HE2	1.90	0.40
1:G:806:TYR:O	1:G:810:LYS:HG2	2.21	0.40
1:A:88:ASP:HA	1:A:116:TYR:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:122:VAL:O	1:A:123:VAL:CG2	2.70	0.40
1:A:173:ILE:HD11	1:A:461:LEU:HD21	2.03	0.40
1:A:405:PRO:HD2	1:A:416:LYS:O	2.22	0.40
1:A:619:LYS:O	1:A:622:ALA:HB3	2.21	0.40
2:B:113:VAL:CG2	2:B:124:VAL:CG1	2.95	0.40
1:C:104:LEU:HD12	1:C:705:LEU:HD11	2.03	0.40
1:C:162:ARG:O	1:C:162:ARG:HG3	2.20	0.40
1:C:176:THR:HG21	1:C:683:ARG:HH21	1.86	0.40
1:C:243:ASP:O	1:C:323:ILE:HD12	2.22	0.40
1:C:678:ASN:HD22	1:C:679:PRO:CD	2.34	0.40
1:E:280:GLN:H	1:E:280:GLN:CD	2.24	0.40
1:E:532:THR:O	1:E:533:ASN:HB2	2.22	0.40
1:E:807:LEU:HD22	2:F:123:GLU:HG2	2.04	0.40
1:G:502:GLN:HE21	1:G:502:GLN:HB2	1.68	0.40
1:G:553:THR:HB	1:G:554:SER:H	1.66	0.40
1:G:656:PHE:HB3	1:G:657:ARG:H	1.76	0.40

All (14) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:22:GLY:N	1:G:371:ARG:CZ[1_545]	1.62	0.58
2:D:22:GLY:CA	1:G:371:ARG:NE[1_545]	1.63	0.57
2:D:22:GLY:N	1:G:371:ARG:NE[1_545]	1.74	0.46
2:D:23:ASP:N	1:G:371:ARG:NH2[1_545]	1.83	0.37
2:D:22:GLY:N	1:G:371:ARG:NH1[1_545]	1.91	0.29
1:A:371:ARG:CZ	2:F:22:GLY:CA[1_544]	1.94	0.26
1:A:371:ARG:NE	2:F:22:GLY:CA[1_544]	1.94	0.26
2:D:21:THR:OG1	1:G:371:ARG:NH1[1_545]	1.97	0.23
1:A:371:ARG:NH1	2:F:22:GLY:N[1_544]	2.00	0.20
2:D:16:GLN:O	1:G:371:ARG:O[1_545]	2.04	0.16
2:D:21:THR:CA	1:G:371:ARG:NH1[1_545]	2.14	0.06
2:D:21:THR:C	1:G:371:ARG:NH1[1_545]	2.15	0.05
2:D:21:THR:CB	1:G:371:ARG:NH1[1_545]	2.16	0.04
2:D:22:GLY:CA	1:G:371:ARG:CD[1_545]	2.18	0.02

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	773/820 (94%)	579 (75%)	139 (18%)	55 (7%)	1	14
1	C	773/820 (94%)	580 (75%)	138 (18%)	55 (7%)	1	14
1	E	773/820 (94%)	580 (75%)	138 (18%)	55 (7%)	1	14
1	G	773/820 (94%)	580 (75%)	138 (18%)	55 (7%)	1	14
2	B	146/150 (97%)	111 (76%)	29 (20%)	6 (4%)	3	25
2	D	146/150 (97%)	112 (77%)	28 (19%)	6 (4%)	3	25
2	F	146/150 (97%)	112 (77%)	29 (20%)	5 (3%)	3	30
2	H	146/150 (97%)	113 (77%)	26 (18%)	7 (5%)	2	22
All	All	3676/3880 (95%)	2767 (75%)	665 (18%)	244 (7%)	1	16

All (244) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	38	PRO
1	A	145	LYS
1	A	183	LYS
1	A	233	ALA
1	A	288	HIS
1	A	342	MET
1	A	407	ILE
1	A	419	THR
1	A	469	PHE
1	A	499	ILE
1	A	553	THR
1	A	554	SER
1	A	698	ALA
2	B	21	THR
1	C	38	PRO
1	C	145	LYS
1	C	183	LYS

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Mol	Chain	Res	Type
1	C	233	ALA
1	C	288	HIS
1	C	342	MET
1	C	407	ILE
1	C	419	THR
1	C	469	PHE
1	C	499	ILE
1	C	553	THR
1	C	554	SER
1	C	698	ALA
2	D	21	THR
1	E	38	PRO
1	E	145	LYS
1	E	183	LYS
1	E	233	ALA
1	E	288	HIS
1	E	342	MET
1	E	407	ILE
1	E	419	THR
1	E	469	PHE
1	E	499	ILE
1	E	553	THR
1	E	554	SER
1	E	698	ALA
2	F	21	THR
1	G	38	PRO
1	G	145	LYS
1	G	183	LYS
1	G	233	ALA
1	G	288	HIS
1	G	342	MET
1	G	407	ILE
1	G	419	THR
1	G	469	PHE
1	G	499	ILE
1	G	553	THR
1	G	554	SER
1	G	698	ALA
2	H	21	THR
2	H	85	PHE
2	H	86	GLU
1	A	7	SER

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Mol	Chain	Res	Type
1	A	18	ASN
1	A	106	GLU
1	A	275	SER
1	A	395	VAL
1	A	447	ASN
1	A	511	GLU
1	A	533	ASN
1	A	542	ASP
1	A	576	LYS
1	A	606	ASN
1	A	773	LYS
2	B	129	ALA
2	B	141	GLU
1	C	7	SER
1	C	18	ASN
1	C	106	GLU
1	C	395	VAL
1	C	447	ASN
1	C	511	GLU
1	C	533	ASN
1	C	542	ASP
1	C	576	LYS
1	C	606	ASN
1	C	773	LYS
2	D	129	ALA
2	D	141	GLU
1	E	7	SER
1	E	18	ASN
1	E	106	GLU
1	E	275	SER
1	E	395	VAL
1	E	447	ASN
1	E	511	GLU
1	E	533	ASN
1	E	542	ASP
1	E	576	LYS
1	E	606	ASN
1	E	773	LYS
2	F	129	ALA
2	F	141	GLU
1	G	7	SER
1	G	18	ASN

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Mol	Chain	Res	Type
1	G	106	GLU
1	G	395	VAL
1	G	447	ASN
1	G	511	GLU
1	G	533	ASN
1	G	542	ASP
1	G	576	LYS
1	G	606	ASN
1	G	773	LYS
2	H	129	ALA
2	H	141	GLU
1	A	123	VAL
1	A	168	ARG
1	A	242	ASN
1	A	345	THR
1	A	362	LEU
1	A	531	PRO
1	A	727	PHE
1	A	764	PRO
1	C	123	VAL
1	C	168	ARG
1	C	242	ASN
1	C	275	SER
1	C	345	THR
1	C	362	LEU
1	C	531	PRO
1	C	727	PHE
1	C	764	PRO
2	D	86	GLU
1	E	123	VAL
1	E	148	GLU
1	E	168	ARG
1	E	242	ASN
1	E	362	LEU
1	E	531	PRO
1	E	727	PHE
1	E	764	PRO
1	G	123	VAL
1	G	168	ARG
1	G	242	ASN
1	G	275	SER
1	G	345	THR

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Mol	Chain	Res	Type
1	G	362	LEU
1	G	531	PRO
1	G	727	PHE
1	G	764	PRO
1	A	148	GLU
1	A	281	ALA
1	A	376	ALA
1	A	379	PRO
1	A	421	GLU
1	A	537	VAL
1	A	670	LEU
1	A	671	MET
1	A	722	PRO
1	A	728	GLN
1	A	743	PRO
2	B	19	ASP
2	B	22	GLY
1	C	148	GLU
1	C	281	ALA
1	C	376	ALA
1	C	379	PRO
1	C	421	GLU
1	C	537	VAL
1	C	670	LEU
1	C	671	MET
1	C	722	PRO
1	C	728	GLN
1	C	743	PRO
2	D	19	ASP
2	D	22	GLY
1	E	281	ALA
1	E	345	THR
1	E	376	ALA
1	E	379	PRO
1	E	421	GLU
1	E	537	VAL
1	E	670	LEU
1	E	671	MET
1	E	722	PRO
1	E	728	GLN
1	E	743	PRO
2	F	19	ASP

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Mol	Chain	Res	Type
2	F	22	GLY
1	G	148	GLU
1	G	281	ALA
1	G	376	ALA
1	G	379	PRO
1	G	421	GLU
1	G	537	VAL
1	G	670	LEU
1	G	671	MET
1	G	722	PRO
1	G	728	GLN
1	G	743	PRO
2	H	19	ASP
2	H	22	GLY
1	A	476	SER
1	A	687	PRO
2	B	86	GLU
1	C	369	LYS
1	C	476	SER
1	C	687	PRO
1	E	476	SER
1	E	687	PRO
1	G	369	LYS
1	G	476	SER
1	G	687	PRO
1	A	369	LYS
1	A	450	LEU
1	A	564	GLY
1	C	450	LEU
1	C	564	GLY
1	E	369	LYS
1	E	450	LEU
1	G	450	LEU
1	E	564	GLY
1	G	564	GLY
1	A	124	ILE
1	A	510	ILE
1	A	792	ILE
1	C	510	ILE
1	C	792	ILE
1	E	124	ILE
1	E	510	ILE

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Mol	Chain	Res	Type
1	E	792	ILE
1	G	124	ILE
1	G	510	ILE
1	G	792	ILE
1	A	779	GLY
1	C	124	ILE
1	C	779	GLY
1	E	779	GLY
1	G	779	GLY
1	A	4	LYS
1	A	466	ILE
1	C	4	LYS
1	C	466	ILE
1	E	4	LYS
1	E	466	ILE
1	G	4	LYS
1	G	466	ILE

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	685/718 (95%)	447 (65%)	238 (35%)	0	1
1	C	685/718 (95%)	446 (65%)	239 (35%)	0	1
1	E	685/718 (95%)	446 (65%)	239 (35%)	0	1
1	G	685/718 (95%)	446 (65%)	239 (35%)	0	1
2	B	127/129 (98%)	75 (59%)	52 (41%)	0	0
2	D	127/129 (98%)	74 (58%)	53 (42%)	0	0
2	F	127/129 (98%)	74 (58%)	53 (42%)	0	0
2	H	127/129 (98%)	73 (58%)	54 (42%)	0	0
All	All	3248/3388 (96%)	2081 (64%)	1167 (36%)	0	1

All (1167) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	LEU
1	A	8	ASP
1	A	15	VAL
1	A	17	LYS
1	A	21	ASN
1	A	22	ASN
1	A	26	GLN
1	A	29	TRP
1	A	32	LYS
1	A	34	LEU
1	A	37	VAL
1	A	41	LYS
1	A	48	SER
1	A	58	THR
1	A	59	VAL
1	A	61	LEU
1	A	66	LYS
1	A	73	ASP
1	A	74	ASP
1	A	76	GLN
1	A	77	LYS
1	A	78	MET
1	A	79	ASN
1	A	84	SER
1	A	91	GLU
1	A	95	LEU
1	A	97	GLU
1	A	99	SER
1	A	101	LEU
1	A	106	GLU
1	A	112	LEU
1	A	113	ILE
1	A	115	THR
1	A	117	SER
1	A	120	PHE
1	A	121	CYS
1	A	127	TYR
1	A	128	LYS
1	A	132	ILE
1	A	136	LYS
1	A	137	ILE
1	A	144	LYS
1	A	146	ARG

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Mol	Chain	Res	Type
1	A	147	HIS
1	A	153	ILE
1	A	158	ASP
1	A	162	ARG
1	A	163	SER
1	A	165	LEU
1	A	174	LEU
1	A	178	GLU
1	A	183	LYS
1	A	186	ASN
1	A	189	LYS
1	A	196	VAL
1	A	199	SER
1	A	200	SER
1	A	214	SER
1	A	216	SER
1	A	217	TYR
1	A	220	LEU
1	A	222	LYS
1	A	225	LEU
1	A	226	GLN
1	A	231	LEU
1	A	234	PHE
1	A	239	THR
1	A	241	LYS
1	A	243	ASP
1	A	247	ARG
1	A	253	ARG
1	A	258	VAL
1	A	259	THR
1	A	266	ASN
1	A	268	GLU
1	A	271	LEU
1	A	274	LYS
1	A	275	SER
1	A	276	ARG
1	A	285	ARG
1	A	286	THR
1	A	287	PHE
1	A	300	GLN
1	A	302	ARG
1	A	303	ASN

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Mol	Chain	Res	Type
1	A	304	ASP
1	A	305	LEU
1	A	307	LEU
1	A	311	ASN
1	A	312	ASN
1	A	313	TYR
1	A	314	THR
1	A	315	PHE
1	A	329	ASP
1	A	336	LEU
1	A	342	MET
1	A	345	THR
1	A	347	GLU
1	A	350	THR
1	A	352	ILE
1	A	354	ARG
1	A	358	SER
1	A	364	ASN
1	A	369	LYS
1	A	372	ASN
1	A	373	THR
1	A	374	ASP
1	A	387	VAL
1	A	391	MET
1	A	395	VAL
1	A	396	THR
1	A	397	ASP
1	A	401	SER
1	A	408	LYS
1	A	411	ARG
1	A	415	GLN
1	A	418	GLN
1	A	419	THR
1	A	420	LYS
1	A	427	ILE
1	A	428	GLU
1	A	430	LEU
1	A	432	LYS
1	A	436	GLU
1	A	437	ARG
1	A	443	LEU
1	A	444	THR

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Mol	Chain	Res	Type
1	A	445	ARG
1	A	446	VAL
1	A	450	LEU
1	A	460	PHE
1	A	461	LEU
1	A	463	ILE
1	A	465	ASP
1	A	471	ILE
1	A	472	PHE
1	A	481	CYS
1	A	482	ILE
1	A	485	THR
1	A	486	ASN
1	A	487	GLU
1	A	488	LYS
1	A	489	LEU
1	A	496	THR
1	A	498	PHE
1	A	501	GLU
1	A	502	GLN
1	A	503	GLU
1	A	513	ASN
1	A	519	LEU
1	A	521	LEU
1	A	538	LEU
1	A	543	GLU
1	A	545	CYS
1	A	551	THR
1	A	552	ASP
1	A	553	THR
1	A	554	SER
1	A	557	GLU
1	A	559	LEU
1	A	560	ILE
1	A	561	GLN
1	A	562	GLU
1	A	563	GLN
1	A	568	LYS
1	A	573	LYS
1	A	574	GLN
1	A	575	LEU
1	A	576	LYS

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Mol	Chain	Res	Type
1	A	578	LYS
1	A	580	GLU
1	A	581	PHE
1	A	582	CYS
1	A	586	TYR
1	A	589	LYS
1	A	590	VAL
1	A	591	THR
1	A	595	SER
1	A	598	LEU
1	A	602	MET
1	A	605	LEU
1	A	608	ASN
1	A	611	SER
1	A	612	LEU
1	A	615	GLN
1	A	616	SER
1	A	617	SER
1	A	619	LYS
1	A	624	LEU
1	A	626	LYS
1	A	628	VAL
1	A	630	ARG
1	A	632	VAL
1	A	634	LEU
1	A	656	PHE
1	A	657	ARG
1	A	664	LYS
1	A	666	GLN
1	A	668	THR
1	A	671	MET
1	A	673	THR
1	A	678	ASN
1	A	684	CYS
1	A	686	ILE
1	A	690	GLU
1	A	692	ARG
1	A	696	LEU
1	A	700	LEU
1	A	703	GLU
1	A	708	ASN
1	A	715	ARG

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Mol	Chain	Res	Type
1	A	719	GLN
1	A	724	ARG
1	A	728	GLN
1	A	729	GLU
1	A	731	ARG
1	A	744	LYS
1	A	751	GLN
1	A	753	CYS
1	A	754	ILE
1	A	755	LEU
1	A	756	MET
1	A	758	LYS
1	A	760	LEU
1	A	762	LEU
1	A	772	SER
1	A	774	ILE
1	A	778	THR
1	A	781	LEU
1	A	792	ILE
1	A	793	THR
1	A	794	ASP
1	A	807	LEU
1	A	809	ARG
1	A	810	LYS
1	A	814	LYS
1	A	817	GLN
1	A	818	GLN
2	B	4	SER
2	B	6	GLU
2	B	10	GLU
2	B	12	LYS
2	B	16	GLN
2	B	20	ARG
2	B	21	THR
2	B	23	ASP
2	B	26	ILE
2	B	27	LEU
2	B	28	TYR
2	B	33	ASP
2	B	40	GLN
2	B	47	VAL
2	B	48	MET

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Mol	Chain	Res	Type
2	B	49	LYS
2	B	57	ASP
2	B	58	GLU
2	B	60	ASN
2	B	62	LYS
2	B	63	THR
2	B	64	LEU
2	B	65	LYS
2	B	67	GLU
2	B	73	MET
2	B	74	GLN
2	B	78	LYS
2	B	80	LYS
2	B	81	ASP
2	B	86	GLU
2	B	87	ASP
2	B	88	TYR
2	B	90	GLU
2	B	96	ASP
2	B	98	GLU
2	B	100	ASN
2	B	104	MET
2	B	107	GLU
2	B	108	ILE
2	B	114	THR
2	B	118	LYS
2	B	120	THR
2	B	124	VAL
2	B	126	GLN
2	B	131	HIS
2	B	132	GLU
2	B	135	ASN
2	B	144	VAL
2	B	145	ARG
2	B	146	MET
2	B	147	VAL
2	B	149	SER
1	C	6	LEU
1	C	8	ASP
1	C	15	VAL
1	C	17	LYS
1	C	21	ASN

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Mol	Chain	Res	Type
1	C	22	ASN
1	C	26	GLN
1	C	29	TRP
1	C	32	LYS
1	C	34	LEU
1	C	37	VAL
1	C	41	LYS
1	C	48	SER
1	C	58	THR
1	C	59	VAL
1	C	61	LEU
1	C	66	LYS
1	C	73	ASP
1	C	74	ASP
1	C	76	GLN
1	C	77	LYS
1	C	78	MET
1	C	79	ASN
1	C	84	SER
1	C	91	GLU
1	C	95	LEU
1	C	97	GLU
1	C	99	SER
1	C	101	LEU
1	C	106	GLU
1	C	107	ARG
1	C	112	LEU
1	C	113	ILE
1	C	115	THR
1	C	117	SER
1	C	120	PHE
1	C	121	CYS
1	C	127	TYR
1	C	128	LYS
1	C	132	ILE
1	C	136	LYS
1	C	137	ILE
1	C	144	LYS
1	C	146	ARG
1	C	147	HIS
1	C	153	ILE
1	C	158	ASP

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Mol	Chain	Res	Type
1	C	162	ARG
1	C	163	SER
1	C	165	LEU
1	C	174	LEU
1	C	178	GLU
1	C	183	LYS
1	C	186	ASN
1	C	189	LYS
1	C	196	VAL
1	C	199	SER
1	C	200	SER
1	C	214	SER
1	C	216	SER
1	C	217	TYR
1	C	220	LEU
1	C	222	LYS
1	C	225	LEU
1	C	226	GLN
1	C	231	LEU
1	C	234	PHE
1	C	239	THR
1	C	241	LYS
1	C	243	ASP
1	C	247	ARG
1	C	253	ARG
1	C	258	VAL
1	C	259	THR
1	C	266	ASN
1	C	268	GLU
1	C	271	LEU
1	C	274	LYS
1	C	275	SER
1	C	276	ARG
1	C	285	ARG
1	C	286	THR
1	C	287	PHE
1	C	300	GLN
1	C	302	ARG
1	C	303	ASN
1	C	304	ASP
1	C	305	LEU
1	C	307	LEU

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Mol	Chain	Res	Type
1	C	311	ASN
1	C	312	ASN
1	C	313	TYR
1	C	314	THR
1	C	315	PHE
1	C	329	ASP
1	C	336	LEU
1	C	342	MET
1	C	345	THR
1	C	347	GLU
1	C	350	THR
1	C	352	ILE
1	C	354	ARG
1	C	358	SER
1	C	364	ASN
1	C	369	LYS
1	C	372	ASN
1	C	373	THR
1	C	374	ASP
1	C	387	VAL
1	C	391	MET
1	C	395	VAL
1	C	396	THR
1	C	397	ASP
1	C	401	SER
1	C	408	LYS
1	C	411	ARG
1	C	415	GLN
1	C	418	GLN
1	C	419	THR
1	C	420	LYS
1	C	427	ILE
1	C	428	GLU
1	C	430	LEU
1	C	432	LYS
1	C	436	GLU
1	C	437	ARG
1	C	443	LEU
1	C	444	THR
1	C	445	ARG
1	C	446	VAL
1	C	450	LEU

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Mol	Chain	Res	Type
1	C	461	LEU
1	C	463	ILE
1	C	465	ASP
1	C	471	ILE
1	C	472	PHE
1	C	481	CYS
1	C	482	ILE
1	C	485	THR
1	C	486	ASN
1	C	487	GLU
1	C	488	LYS
1	C	489	LEU
1	C	496	THR
1	C	498	PHE
1	C	501	GLU
1	C	502	GLN
1	C	503	GLU
1	C	513	ASN
1	C	519	LEU
1	C	521	LEU
1	C	538	LEU
1	C	543	GLU
1	C	545	CYS
1	C	551	THR
1	C	552	ASP
1	C	553	THR
1	C	554	SER
1	C	557	GLU
1	C	559	LEU
1	C	560	ILE
1	C	561	GLN
1	C	562	GLU
1	C	563	GLN
1	C	568	LYS
1	C	573	LYS
1	C	574	GLN
1	C	575	LEU
1	C	576	LYS
1	C	578	LYS
1	C	580	GLU
1	C	581	PHE
1	C	582	CYS

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Mol	Chain	Res	Type
1	C	586	TYR
1	C	589	LYS
1	C	590	VAL
1	C	591	THR
1	C	595	SER
1	C	598	LEU
1	C	602	MET
1	C	603	ASP
1	C	605	LEU
1	C	608	ASN
1	C	611	SER
1	C	612	LEU
1	C	615	GLN
1	C	616	SER
1	C	617	SER
1	C	619	LYS
1	C	624	LEU
1	C	626	LYS
1	C	628	VAL
1	C	630	ARG
1	C	632	VAL
1	C	634	LEU
1	C	656	PHE
1	C	657	ARG
1	C	664	LYS
1	C	666	GLN
1	C	668	THR
1	C	671	MET
1	C	673	THR
1	C	678	ASN
1	C	684	CYS
1	C	686	ILE
1	C	690	GLU
1	C	692	ARG
1	C	696	LEU
1	C	700	LEU
1	C	703	GLU
1	C	708	ASN
1	C	715	ARG
1	C	719	GLN
1	C	724	ARG
1	C	728	GLN

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Mol	Chain	Res	Type
1	C	729	GLU
1	C	731	ARG
1	C	744	LYS
1	C	751	GLN
1	C	753	CYS
1	C	754	ILE
1	C	755	LEU
1	C	756	MET
1	C	758	LYS
1	C	760	LEU
1	C	762	LEU
1	C	772	SER
1	C	774	ILE
1	C	778	THR
1	C	781	LEU
1	C	792	ILE
1	C	793	THR
1	C	794	ASP
1	C	807	LEU
1	C	809	ARG
1	C	810	LYS
1	C	814	LYS
1	C	817	GLN
1	C	818	GLN
2	D	4	SER
2	D	6	GLU
2	D	10	GLU
2	D	12	LYS
2	D	16	GLN
2	D	20	ARG
2	D	21	THR
2	D	23	ASP
2	D	26	ILE
2	D	27	LEU
2	D	28	TYR
2	D	33	ASP
2	D	40	GLN
2	D	44	ASN
2	D	47	VAL
2	D	48	MET
2	D	49	LYS
2	D	57	ASP

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Mol	Chain	Res	Type
2	D	58	GLU
2	D	60	ASN
2	D	62	LYS
2	D	63	THR
2	D	64	LEU
2	D	65	LYS
2	D	67	GLU
2	D	73	MET
2	D	74	GLN
2	D	78	LYS
2	D	80	LYS
2	D	81	ASP
2	D	86	GLU
2	D	87	ASP
2	D	88	TYR
2	D	90	GLU
2	D	96	ASP
2	D	98	GLU
2	D	100	ASN
2	D	104	MET
2	D	107	GLU
2	D	108	ILE
2	D	114	THR
2	D	118	LYS
2	D	120	THR
2	D	124	VAL
2	D	126	GLN
2	D	131	HIS
2	D	132	GLU
2	D	135	ASN
2	D	144	VAL
2	D	145	ARG
2	D	146	MET
2	D	147	VAL
2	D	149	SER
1	E	6	LEU
1	E	8	ASP
1	E	15	VAL
1	E	17	LYS
1	E	21	ASN
1	E	22	ASN
1	E	26	GLN

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Mol	Chain	Res	Type
1	E	29	TRP
1	E	32	LYS
1	E	34	LEU
1	E	37	VAL
1	E	41	LYS
1	E	48	SER
1	E	58	THR
1	E	59	VAL
1	E	61	LEU
1	E	66	LYS
1	E	73	ASP
1	E	74	ASP
1	E	76	GLN
1	E	77	LYS
1	E	78	MET
1	E	79	ASN
1	E	84	SER
1	E	91	GLU
1	E	95	LEU
1	E	97	GLU
1	E	99	SER
1	E	101	LEU
1	E	106	GLU
1	E	112	LEU
1	E	113	ILE
1	E	115	THR
1	E	117	SER
1	E	120	PHE
1	E	121	CYS
1	E	127	TYR
1	E	128	LYS
1	E	132	ILE
1	E	136	LYS
1	E	137	ILE
1	E	144	LYS
1	E	146	ARG
1	E	147	HIS
1	E	153	ILE
1	E	158	ASP
1	E	162	ARG
1	E	163	SER
1	E	165	LEU

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Mol	Chain	Res	Type
1	E	174	LEU
1	E	178	GLU
1	E	183	LYS
1	E	186	ASN
1	E	189	LYS
1	E	196	VAL
1	E	199	SER
1	E	200	SER
1	E	214	SER
1	E	216	SER
1	E	217	TYR
1	E	220	LEU
1	E	222	LYS
1	E	225	LEU
1	E	226	GLN
1	E	231	LEU
1	E	234	PHE
1	E	239	THR
1	E	241	LYS
1	E	243	ASP
1	E	247	ARG
1	E	253	ARG
1	E	258	VAL
1	E	259	THR
1	E	266	ASN
1	E	268	GLU
1	E	271	LEU
1	E	274	LYS
1	E	275	SER
1	E	276	ARG
1	E	285	ARG
1	E	286	THR
1	E	287	PHE
1	E	300	GLN
1	E	302	ARG
1	E	303	ASN
1	E	304	ASP
1	E	305	LEU
1	E	307	LEU
1	E	311	ASN
1	E	312	ASN
1	E	313	TYR

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Mol	Chain	Res	Type
1	E	314	THR
1	E	315	PHE
1	E	329	ASP
1	E	336	LEU
1	E	342	MET
1	E	345	THR
1	E	347	GLU
1	E	350	THR
1	E	352	ILE
1	E	354	ARG
1	E	358	SER
1	E	364	ASN
1	E	369	LYS
1	E	372	ASN
1	E	373	THR
1	E	374	ASP
1	E	387	VAL
1	E	391	MET
1	E	395	VAL
1	E	396	THR
1	E	397	ASP
1	E	401	SER
1	E	408	LYS
1	E	411	ARG
1	E	415	GLN
1	E	418	GLN
1	E	419	THR
1	E	420	LYS
1	E	427	ILE
1	E	428	GLU
1	E	430	LEU
1	E	432	LYS
1	E	436	GLU
1	E	437	ARG
1	E	443	LEU
1	E	444	THR
1	E	445	ARG
1	E	446	VAL
1	E	450	LEU
1	E	460	PHE
1	E	461	LEU
1	E	463	ILE

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Mol	Chain	Res	Type
1	E	465	ASP
1	E	471	ILE
1	E	472	PHE
1	E	481	CYS
1	E	482	ILE
1	E	485	THR
1	E	486	ASN
1	E	487	GLU
1	E	488	LYS
1	E	489	LEU
1	E	496	THR
1	E	498	PHE
1	E	501	GLU
1	E	502	GLN
1	E	503	GLU
1	E	513	ASN
1	E	519	LEU
1	E	521	LEU
1	E	538	LEU
1	E	543	GLU
1	E	545	CYS
1	E	551	THR
1	E	552	ASP
1	E	553	THR
1	E	554	SER
1	E	557	GLU
1	E	559	LEU
1	E	560	ILE
1	E	561	GLN
1	E	562	GLU
1	E	563	GLN
1	E	568	LYS
1	E	573	LYS
1	E	574	GLN
1	E	575	LEU
1	E	576	LYS
1	E	578	LYS
1	E	580	GLU
1	E	581	PHE
1	E	582	CYS
1	E	586	TYR
1	E	589	LYS

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Mol	Chain	Res	Type
1	E	590	VAL
1	E	591	THR
1	E	595	SER
1	E	598	LEU
1	E	602	MET
1	E	603	ASP
1	E	605	LEU
1	E	608	ASN
1	E	611	SER
1	E	612	LEU
1	E	615	GLN
1	E	616	SER
1	E	617	SER
1	E	619	LYS
1	E	624	LEU
1	E	626	LYS
1	E	628	VAL
1	E	630	ARG
1	E	632	VAL
1	E	634	LEU
1	E	656	PHE
1	E	657	ARG
1	E	664	LYS
1	E	666	GLN
1	E	668	THR
1	E	671	MET
1	E	673	THR
1	E	678	ASN
1	E	684	CYS
1	E	686	ILE
1	E	690	GLU
1	E	692	ARG
1	E	696	LEU
1	E	700	LEU
1	E	703	GLU
1	E	708	ASN
1	E	715	ARG
1	E	719	GLN
1	E	724	ARG
1	E	728	GLN
1	E	729	GLU
1	E	731	ARG

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Mol	Chain	Res	Type
1	E	744	LYS
1	E	751	GLN
1	E	753	CYS
1	E	754	ILE
1	E	755	LEU
1	E	756	MET
1	E	758	LYS
1	E	760	LEU
1	E	762	LEU
1	E	772	SER
1	E	774	ILE
1	E	778	THR
1	E	781	LEU
1	E	792	ILE
1	E	793	THR
1	E	794	ASP
1	E	807	LEU
1	E	809	ARG
1	E	810	LYS
1	E	814	LYS
1	E	817	GLN
1	E	818	GLN
2	F	4	SER
2	F	6	GLU
2	F	10	GLU
2	F	12	LYS
2	F	16	GLN
2	F	20	ARG
2	F	21	THR
2	F	23	ASP
2	F	26	ILE
2	F	27	LEU
2	F	28	TYR
2	F	33	ASP
2	F	40	GLN
2	F	44	ASN
2	F	47	VAL
2	F	48	MET
2	F	49	LYS
2	F	57	ASP
2	F	58	GLU
2	F	60	ASN

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Mol	Chain	Res	Type
2	F	62	LYS
2	F	63	THR
2	F	64	LEU
2	F	65	LYS
2	F	67	GLU
2	F	73	MET
2	F	74	GLN
2	F	78	LYS
2	F	80	LYS
2	F	81	ASP
2	F	86	GLU
2	F	87	ASP
2	F	88	TYR
2	F	90	GLU
2	F	96	ASP
2	F	98	GLU
2	F	100	ASN
2	F	104	MET
2	F	107	GLU
2	F	108	ILE
2	F	114	THR
2	F	118	LYS
2	F	120	THR
2	F	124	VAL
2	F	126	GLN
2	F	131	HIS
2	F	132	GLU
2	F	135	ASN
2	F	144	VAL
2	F	145	ARG
2	F	146	MET
2	F	147	VAL
2	F	149	SER
1	G	6	LEU
1	G	8	ASP
1	G	15	VAL
1	G	17	LYS
1	G	21	ASN
1	G	22	ASN
1	G	26	GLN
1	G	29	TRP
1	G	32	LYS

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Mol	Chain	Res	Type
1	G	34	LEU
1	G	37	VAL
1	G	41	LYS
1	G	48	SER
1	G	58	THR
1	G	59	VAL
1	G	61	LEU
1	G	66	LYS
1	G	73	ASP
1	G	74	ASP
1	G	76	GLN
1	G	77	LYS
1	G	78	MET
1	G	79	ASN
1	G	84	SER
1	G	91	GLU
1	G	95	LEU
1	G	97	GLU
1	G	99	SER
1	G	101	LEU
1	G	106	GLU
1	G	107	ARG
1	G	112	LEU
1	G	113	ILE
1	G	115	THR
1	G	117	SER
1	G	120	PHE
1	G	121	CYS
1	G	127	TYR
1	G	128	LYS
1	G	132	ILE
1	G	136	LYS
1	G	137	ILE
1	G	144	LYS
1	G	146	ARG
1	G	147	HIS
1	G	153	ILE
1	G	158	ASP
1	G	162	ARG
1	G	163	SER
1	G	165	LEU
1	G	174	LEU

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Mol	Chain	Res	Type
1	G	178	GLU
1	G	183	LYS
1	G	186	ASN
1	G	189	LYS
1	G	196	VAL
1	G	199	SER
1	G	200	SER
1	G	214	SER
1	G	216	SER
1	G	217	TYR
1	G	220	LEU
1	G	222	LYS
1	G	225	LEU
1	G	226	GLN
1	G	231	LEU
1	G	234	PHE
1	G	239	THR
1	G	241	LYS
1	G	243	ASP
1	G	247	ARG
1	G	253	ARG
1	G	258	VAL
1	G	259	THR
1	G	266	ASN
1	G	268	GLU
1	G	271	LEU
1	G	274	LYS
1	G	275	SER
1	G	276	ARG
1	G	285	ARG
1	G	286	THR
1	G	287	PHE
1	G	300	GLN
1	G	302	ARG
1	G	303	ASN
1	G	304	ASP
1	G	305	LEU
1	G	307	LEU
1	G	311	ASN
1	G	312	ASN
1	G	313	TYR
1	G	314	THR

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Mol	Chain	Res	Type
1	G	315	PHE
1	G	329	ASP
1	G	336	LEU
1	G	342	MET
1	G	345	THR
1	G	347	GLU
1	G	350	THR
1	G	352	ILE
1	G	354	ARG
1	G	358	SER
1	G	364	ASN
1	G	369	LYS
1	G	372	ASN
1	G	373	THR
1	G	374	ASP
1	G	387	VAL
1	G	391	MET
1	G	395	VAL
1	G	396	THR
1	G	397	ASP
1	G	401	SER
1	G	408	LYS
1	G	411	ARG
1	G	415	GLN
1	G	418	GLN
1	G	419	THR
1	G	420	LYS
1	G	427	ILE
1	G	428	GLU
1	G	430	LEU
1	G	432	LYS
1	G	436	GLU
1	G	437	ARG
1	G	443	LEU
1	G	444	THR
1	G	445	ARG
1	G	446	VAL
1	G	450	LEU
1	G	461	LEU
1	G	463	ILE
1	G	465	ASP
1	G	471	ILE

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Mol	Chain	Res	Type
1	G	472	PHE
1	G	481	CYS
1	G	482	ILE
1	G	485	THR
1	G	486	ASN
1	G	487	GLU
1	G	488	LYS
1	G	489	LEU
1	G	496	THR
1	G	498	PHE
1	G	501	GLU
1	G	502	GLN
1	G	503	GLU
1	G	513	ASN
1	G	519	LEU
1	G	521	LEU
1	G	538	LEU
1	G	543	GLU
1	G	545	CYS
1	G	551	THR
1	G	552	ASP
1	G	553	THR
1	G	554	SER
1	G	557	GLU
1	G	559	LEU
1	G	560	ILE
1	G	561	GLN
1	G	562	GLU
1	G	563	GLN
1	G	568	LYS
1	G	573	LYS
1	G	574	GLN
1	G	575	LEU
1	G	576	LYS
1	G	578	LYS
1	G	580	GLU
1	G	581	PHE
1	G	582	CYS
1	G	586	TYR
1	G	589	LYS
1	G	590	VAL
1	G	591	THR

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Mol	Chain	Res	Type
1	G	595	SER
1	G	598	LEU
1	G	602	MET
1	G	603	ASP
1	G	605	LEU
1	G	608	ASN
1	G	611	SER
1	G	612	LEU
1	G	615	GLN
1	G	616	SER
1	G	617	SER
1	G	619	LYS
1	G	624	LEU
1	G	626	LYS
1	G	628	VAL
1	G	630	ARG
1	G	632	VAL
1	G	634	LEU
1	G	656	PHE
1	G	657	ARG
1	G	664	LYS
1	G	666	GLN
1	G	668	THR
1	G	671	MET
1	G	673	THR
1	G	678	ASN
1	G	684	CYS
1	G	686	ILE
1	G	690	GLU
1	G	692	ARG
1	G	696	LEU
1	G	700	LEU
1	G	703	GLU
1	G	708	ASN
1	G	715	ARG
1	G	719	GLN
1	G	724	ARG
1	G	728	GLN
1	G	729	GLU
1	G	731	ARG
1	G	744	LYS
1	G	751	GLN

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Mol	Chain	Res	Type
1	G	753	CYS
1	G	754	ILE
1	G	755	LEU
1	G	756	MET
1	G	758	LYS
1	G	760	LEU
1	G	762	LEU
1	G	772	SER
1	G	774	ILE
1	G	778	THR
1	G	781	LEU
1	G	792	ILE
1	G	793	THR
1	G	794	ASP
1	G	807	LEU
1	G	809	ARG
1	G	810	LYS
1	G	814	LYS
1	G	817	GLN
1	G	818	GLN
2	H	4	SER
2	H	6	GLU
2	H	10	GLU
2	H	12	LYS
2	H	16	GLN
2	H	20	ARG
2	H	21	THR
2	H	23	ASP
2	H	26	ILE
2	H	27	LEU
2	H	28	TYR
2	H	33	ASP
2	H	40	GLN
2	H	44	ASN
2	H	47	VAL
2	H	48	MET
2	H	49	LYS
2	H	57	ASP
2	H	58	GLU
2	H	60	ASN
2	H	62	LYS
2	H	63	THR

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Mol	Chain	Res	Type
2	H	64	LEU
2	H	65	LYS
2	H	67	GLU
2	H	73	MET
2	H	74	GLN
2	H	78	LYS
2	H	80	LYS
2	H	81	ASP
2	H	85	PHE
2	H	86	GLU
2	H	87	ASP
2	H	88	TYR
2	H	90	GLU
2	H	96	ASP
2	H	98	GLU
2	H	100	ASN
2	H	104	MET
2	H	107	GLU
2	H	108	ILE
2	H	114	THR
2	H	118	LYS
2	H	120	THR
2	H	124	VAL
2	H	126	GLN
2	H	131	HIS
2	H	132	GLU
2	H	135	ASN
2	H	144	VAL
2	H	145	ARG
2	H	146	MET
2	H	147	VAL
2	H	149	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (126) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	18	ASN
1	A	64	ASN
1	A	96	ASN
1	A	223	GLN
1	A	226	GLN
1	A	244	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	A	288	HIS
1	A	303	ASN
1	A	311	ASN
1	A	312	ASN
1	A	318	ASN
1	A	320	HIS
1	A	372	ASN
1	A	385	GLN
1	A	422	GLN
1	A	490	GLN
1	A	513	ASN
1	A	566	HIS
1	A	601	ASN
1	A	661	GLN
1	A	678	ASN
1	A	680	ASN
1	A	689	HIS
1	A	704	GLN
1	A	728	GLN
1	A	751	GLN
1	A	816	GLN
2	B	7	GLN
2	B	53	ASN
2	B	68	GLN
2	B	74	GLN
2	B	135	ASN
2	B	139	ASN
1	C	18	ASN
1	C	64	ASN
1	C	96	ASN
1	C	223	GLN
1	C	226	GLN
1	C	303	ASN
1	C	311	ASN
1	C	312	ASN
1	C	318	ASN
1	C	320	HIS
1	C	372	ASN
1	C	385	GLN
1	C	422	GLN
1	C	490	GLN
1	C	513	ASN

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Mol	Chain	Res	Type
1	C	566	HIS
1	C	601	ASN
1	C	661	GLN
1	C	678	ASN
1	C	680	ASN
1	C	689	HIS
1	C	704	GLN
1	C	728	GLN
1	C	751	GLN
1	C	816	GLN
2	D	7	GLN
2	D	53	ASN
2	D	68	GLN
2	D	74	GLN
2	D	135	ASN
2	D	139	ASN
1	E	18	ASN
1	E	64	ASN
1	E	96	ASN
1	E	223	GLN
1	E	226	GLN
1	E	244	ASN
1	E	288	HIS
1	E	303	ASN
1	E	311	ASN
1	E	312	ASN
1	E	318	ASN
1	E	320	HIS
1	E	372	ASN
1	E	385	GLN
1	E	422	GLN
1	E	490	GLN
1	E	513	ASN
1	E	566	HIS
1	E	601	ASN
1	E	661	GLN
1	E	678	ASN
1	E	680	ASN
1	E	689	HIS
1	E	704	GLN
1	E	728	GLN
1	E	751	GLN

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Mol	Chain	Res	Type
1	E	816	GLN
2	F	7	GLN
2	F	53	ASN
2	F	68	GLN
2	F	74	GLN
2	F	135	ASN
2	F	139	ASN
1	G	18	ASN
1	G	64	ASN
1	G	96	ASN
1	G	223	GLN
1	G	226	GLN
1	G	303	ASN
1	G	311	ASN
1	G	312	ASN
1	G	318	ASN
1	G	320	HIS
1	G	372	ASN
1	G	422	GLN
1	G	490	GLN
1	G	513	ASN
1	G	566	HIS
1	G	601	ASN
1	G	661	GLN
1	G	678	ASN
1	G	680	ASN
1	G	689	HIS
1	G	704	GLN
1	G	728	GLN
1	G	751	GLN
2	H	7	GLN
2	H	53	ASN
2	H	68	GLN
2	H	74	GLN
2	H	135	ASN
2	H	139	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 12 ligands modelled in this entry, 4 are monoatomic - leaving 8 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	BEF	A	999	4,3	0,3,3	-	-	-		
5	BEF	E	999	4,3	0,3,3	-	-	-		
4	ADP	E	998	5,3	24,29,29	1.18	2 (8%)	29,45,45	1.33	3 (10%)
5	BEF	G	999	4,3	0,3,3	-	-	-		
5	BEF	C	999	4,3	0,3,3	-	-	-		
4	ADP	C	998	5,3	24,29,29	1.19	2 (8%)	29,45,45	1.33	3 (10%)
4	ADP	G	998	5,3	24,29,29	1.18	2 (8%)	29,45,45	1.33	3 (10%)
4	ADP	A	998	5,3	24,29,29	1.18	2 (8%)	29,45,45	1.34	3 (10%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	ADP	C	998	5,3	-	3/12/32/32	0/3/3/3
4	ADP	G	998	5,3	-	3/12/32/32	0/3/3/3
4	ADP	A	998	5,3	-	3/12/32/32	0/3/3/3
4	ADP	E	998	5,3	-	3/12/32/32	0/3/3/3

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	998	ADP	C2'-C1'	-3.44	1.48	1.53
4	G	998	ADP	C2'-C1'	-3.39	1.48	1.53
4	C	998	ADP	C2'-C1'	-3.39	1.48	1.53
4	E	998	ADP	C2'-C1'	-3.38	1.48	1.53
4	G	998	ADP	C2-N3	2.32	1.35	1.32
4	C	998	ADP	C2-N3	2.30	1.35	1.32
4	E	998	ADP	C2-N3	2.29	1.35	1.32
4	A	998	ADP	C2-N3	2.27	1.35	1.32

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	998	ADP	C5-C6-N6	5.05	128.02	120.35
4	E	998	ADP	C5-C6-N6	5.03	128.00	120.35
4	G	998	ADP	C5-C6-N6	5.03	128.00	120.35
4	C	998	ADP	C5-C6-N6	5.03	128.00	120.35
4	A	998	ADP	N6-C6-N1	-2.74	112.89	118.57
4	C	998	ADP	N6-C6-N1	-2.72	112.93	118.57
4	G	998	ADP	N6-C6-N1	-2.71	112.95	118.57
4	E	998	ADP	N6-C6-N1	-2.68	113.01	118.57
4	A	998	ADP	C1'-N9-C4	-2.39	122.43	126.64
4	G	998	ADP	C1'-N9-C4	-2.38	122.46	126.64
4	C	998	ADP	C1'-N9-C4	-2.37	122.48	126.64
4	E	998	ADP	C1'-N9-C4	-2.37	122.48	126.64

There are no chirality outliers.

All (12) torsion outliers are listed below:

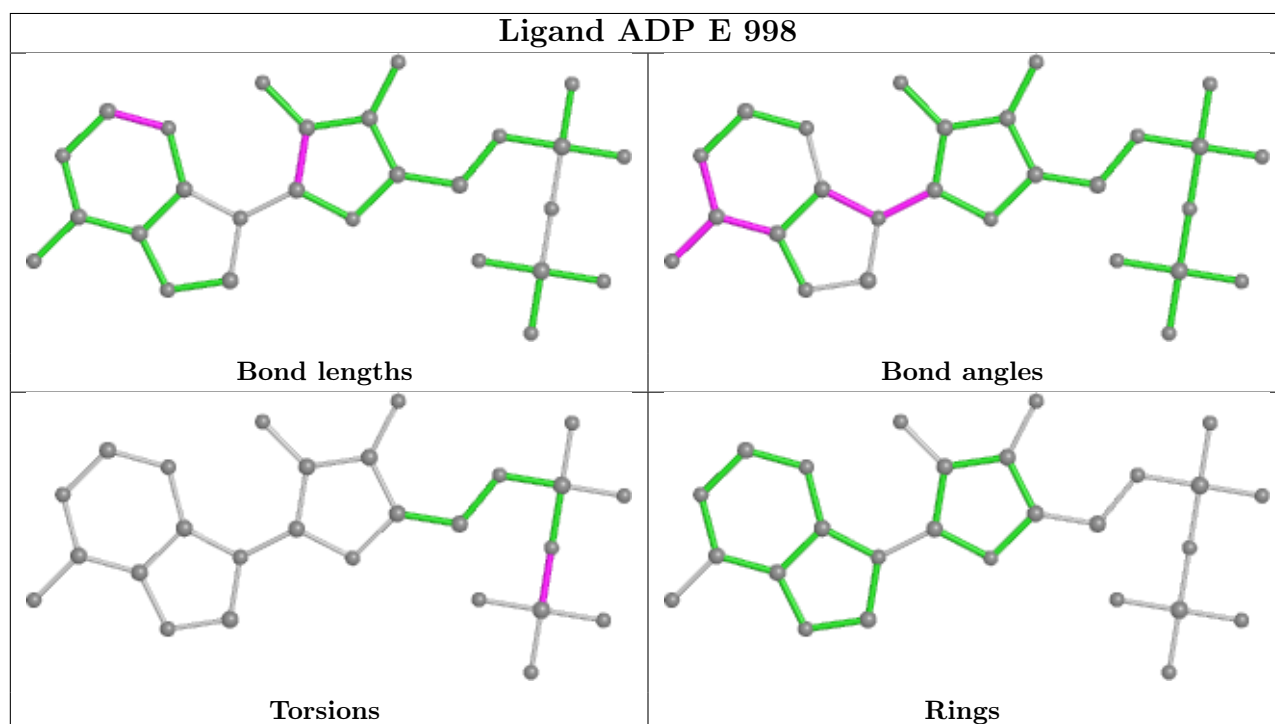
Mol	Chain	Res	Type	Atoms
4	A	998	ADP	PA-O3A-PB-O2B
4	C	998	ADP	PA-O3A-PB-O2B
4	E	998	ADP	PA-O3A-PB-O2B
4	G	998	ADP	PA-O3A-PB-O2B
4	A	998	ADP	PA-O3A-PB-O1B
4	C	998	ADP	PA-O3A-PB-O1B
4	E	998	ADP	PA-O3A-PB-O1B
4	G	998	ADP	PA-O3A-PB-O1B
4	A	998	ADP	PA-O3A-PB-O3B
4	C	998	ADP	PA-O3A-PB-O3B
4	E	998	ADP	PA-O3A-PB-O3B
4	G	998	ADP	PA-O3A-PB-O3B

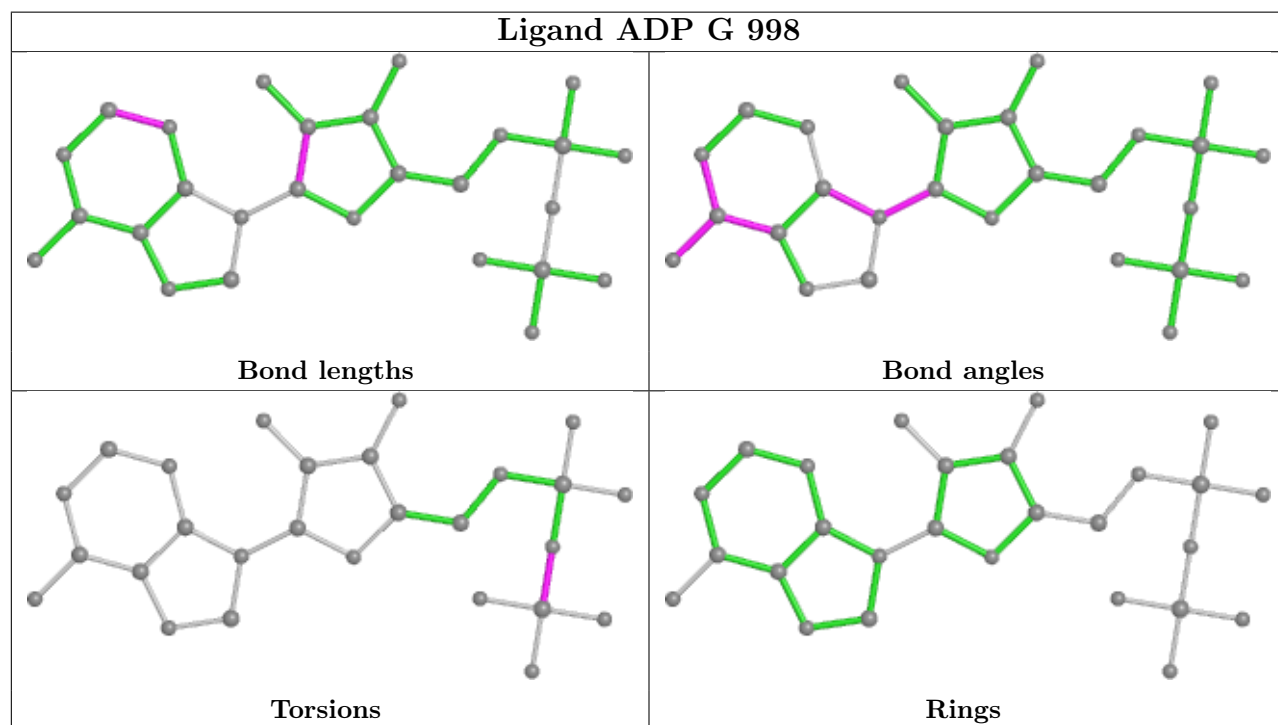
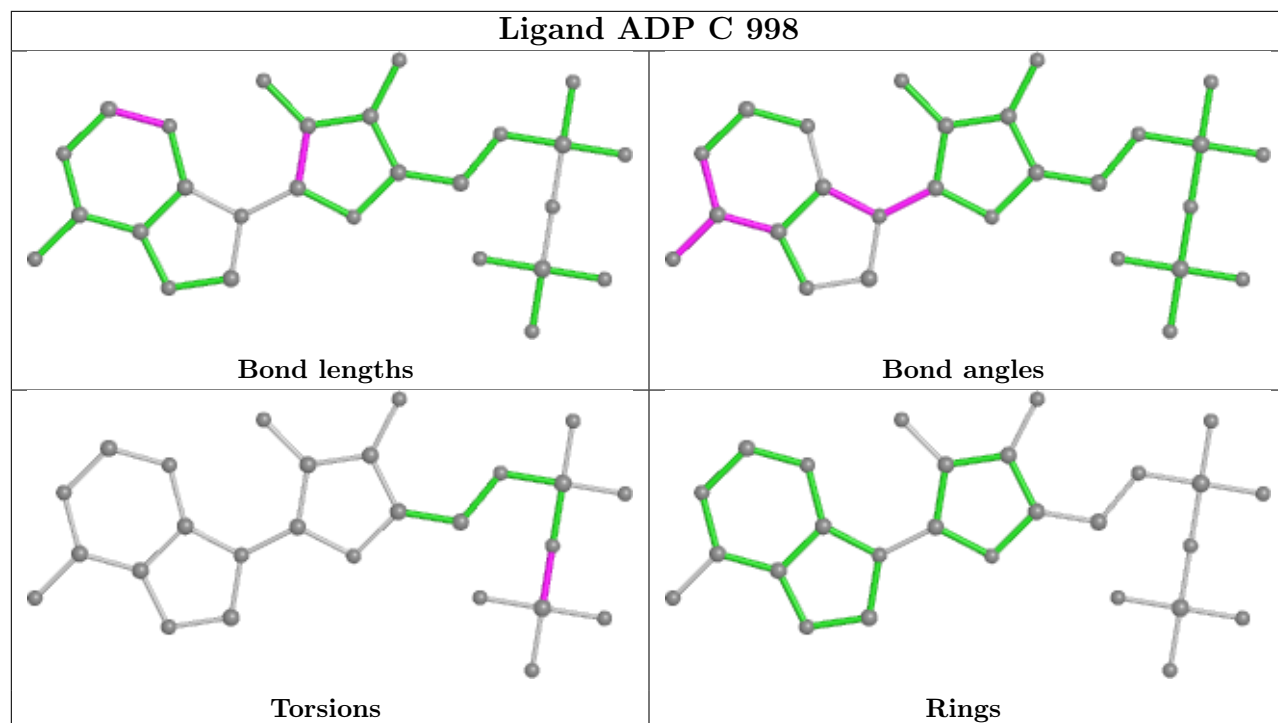
There are no ring outliers.

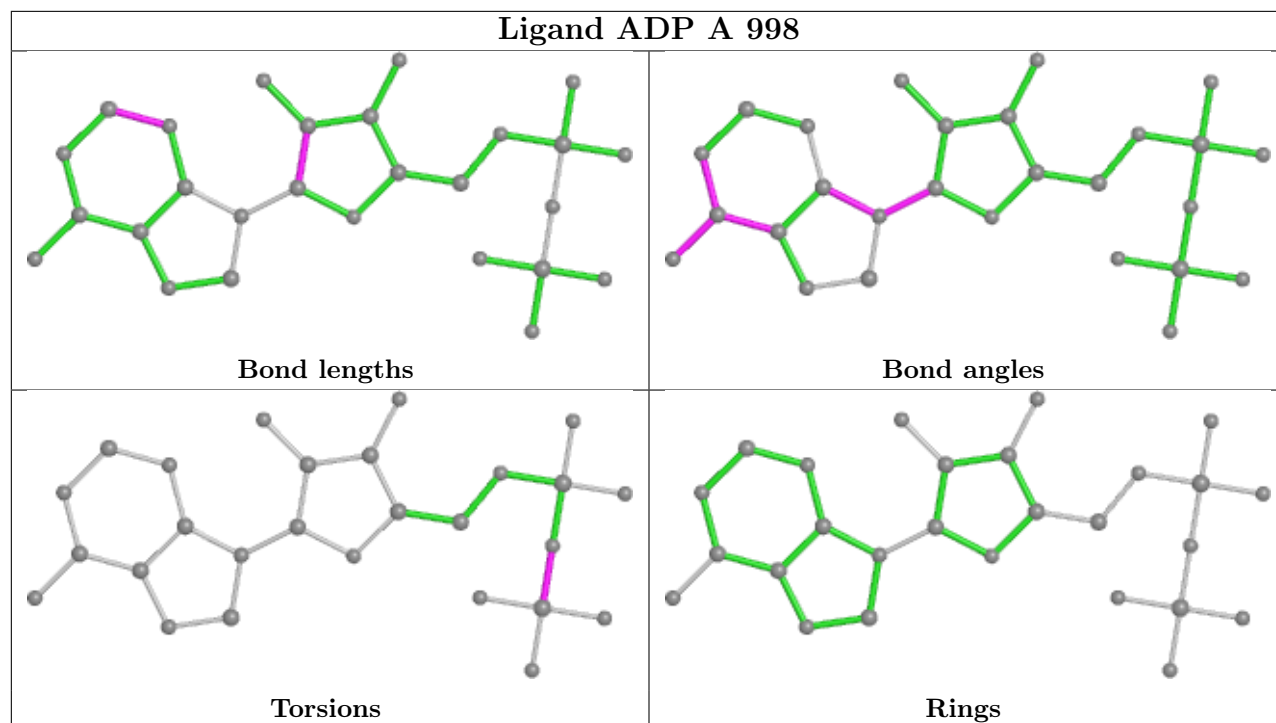
4 monomers are involved in 12 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	E	998	ADP	2	0
4	C	998	ADP	4	0
4	G	998	ADP	3	0
4	A	998	ADP	3	0

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







5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

EDS was not executed - this section is therefore empty.

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

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates [i](#)

EDS was not executed - this section is therefore empty.

6.4 Ligands [i](#)

EDS was not executed - this section is therefore empty.

6.5 Other polymers [i](#)

EDS was not executed - this section is therefore empty.