



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 17, 2023 – 03:55 AM EDT

PDB ID : 1IW7
Title : Crystal structure of the RNA polymerase holoenzyme from *Thermus thermophilus* at 2.6Å resolution
Authors : RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2002-04-22
Resolution : 2.60 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
Xtrriage (Phenix) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
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

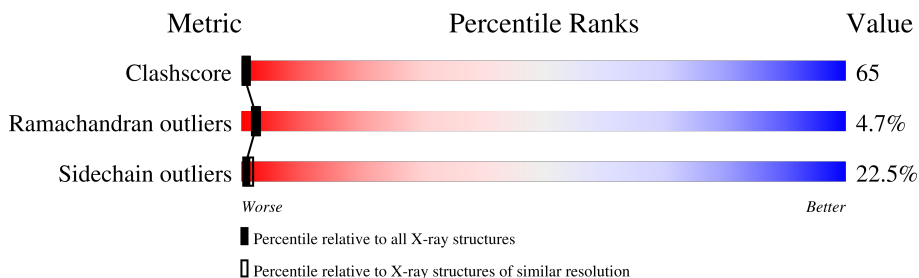
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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	3518 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)

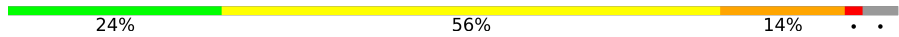
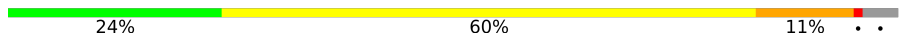


The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. 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	315	18% 44% 9% • 27%
1	B	315	21% 42% 8% • 27%
1	K	315	17% 43% 11% • 27%
1	L	315	20% 42% 10% • 27%
2	C	1119	23% 58% 17% •
2	M	1119	21% 59% 18% •
3	D	1524	23% 51% 16% • 9%
3	N	1524	23% 51% 16% • 9%

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Mol	Chain	Length	Quality of chain
4	E	99	
4	O	99	
5	F	423	
5	P	423	

2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 59529 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 RNA polymerase alpha subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	229	Total 1806	C 1153	N 313	O 337	S 3	0	0	0
1	B	229	Total 1806	C 1153	N 313	O 337	S 3	0	0	0
1	K	229	Total 1806	C 1153	N 313	O 337	S 3	0	0	0
1	L	229	Total 1806	C 1153	N 313	O 337	S 3	0	0	0

- Molecule 2 is a protein called RNA polymerase beta subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	C	1119	Total 8829	C 5581	N 1577	O 1647	S 24	0	0	0
2	M	1119	Total 8829	C 5581	N 1577	O 1647	S 24	0	0	0

- Molecule 3 is a protein called RNA polymerase beta subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	D	1392	Total 10801	C 6823	N 1925	O 2020	S 33	0	0	0
3	N	1392	Total 10801	C 6823	N 1925	O 2020	S 33	0	0	0

- Molecule 4 is a protein called RNA polymerase omega subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	E	95	Total 769	C 488	N 133	O 144	S 4	0	0	0
4	O	95	Total 769	C 488	N 133	O 144	S 4	0	0	0

- Molecule 5 is a protein called RNA polymerase sigma-70 subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
5	F	345	Total 2771	C 1744	N 504	O 519	S 4	0	0	0
5	P	345	Total 2771	C 1744	N 504	O 519	S 4	0	0	0

- Molecule 6 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	18	Total 18	Mg 18	0	0
6	B	24	Total 24	Mg 24	0	0
6	C	63	Total 63	Mg 63	0	0
6	D	118	Total 118	Mg 118	0	0
6	E	6	Total 6	Mg 6	0	0
6	F	31	Total 31	Mg 31	0	0
6	K	20	Total 20	Mg 20	0	0
6	L	19	Total 19	Mg 19	0	0
6	M	64	Total 64	Mg 64	0	0
6	N	92	Total 92	Mg 92	0	0
6	O	8	Total 8	Mg 8	0	0
6	P	22	Total 22	Mg 22	0	0

- Molecule 7 is LEAD (II) ION (three-letter code: PB) (formula: Pb).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	D	2	Total 2	Pb 2	0	0
7	N	2	Total 2	Pb 2	0	0

- Molecule 8 is water.

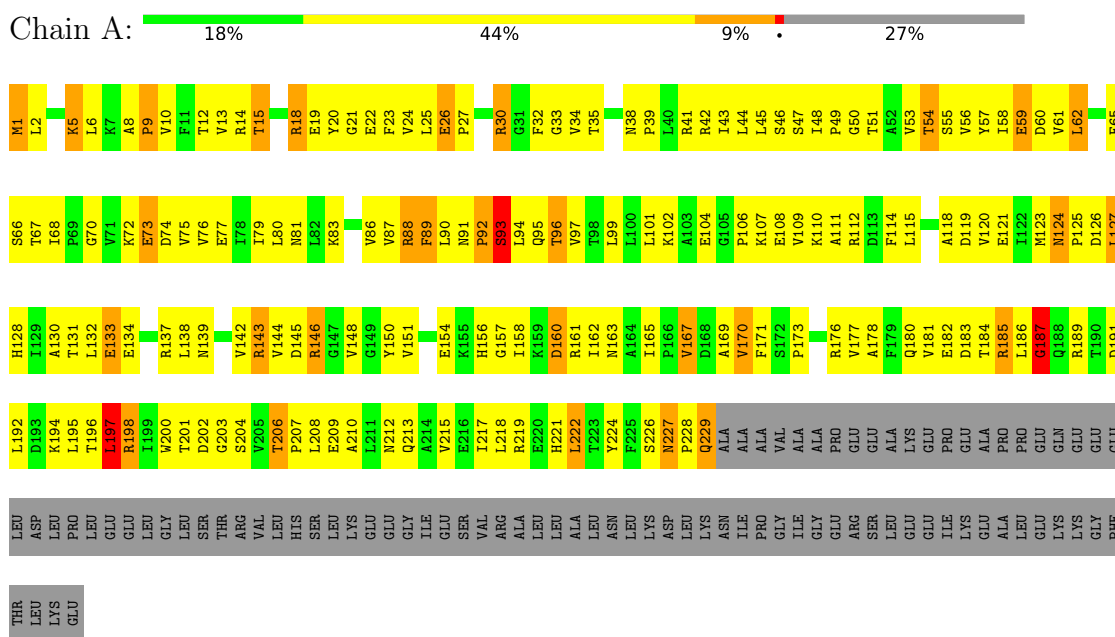
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	194	Total O 194 194	0	0
8	B	193	Total O 193 193	0	0
8	C	869	Total O 869 869	0	0
8	D	1163	Total O 1163 1163	0	0
8	E	114	Total O 114 114	0	0
8	F	381	Total O 381 381	0	0
8	K	161	Total O 161 161	0	0
8	L	157	Total O 157 157	0	0
8	M	822	Total O 822 822	0	0
8	N	983	Total O 983 983	0	0
8	O	114	Total O 114 114	0	0
8	P	325	Total O 325 325	0	0

3 Residue-property plots

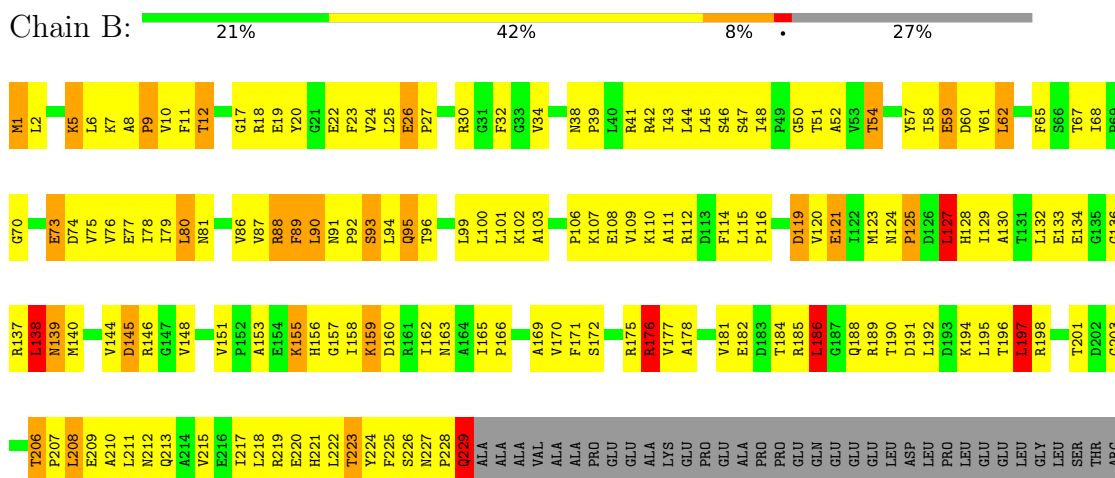
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded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



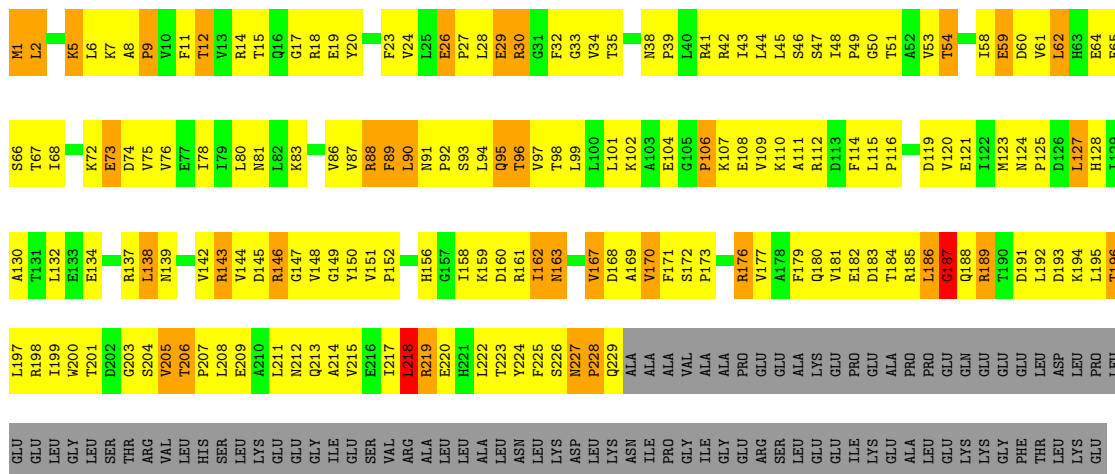
- Molecule 1: RNA polymerase alpha subunit



VAL
LEU
HIS
SER
LEU
LYS
GLU
GLY
GLY
LEU
LEU
SER
SER
VAL
ARG
ALA
ALA
LEU
LEU
LEU
ASN
LEU
LEU
LEU
LYS
ASP
LEU
LEU
LYS
ASN
ASN
ILE
PRO
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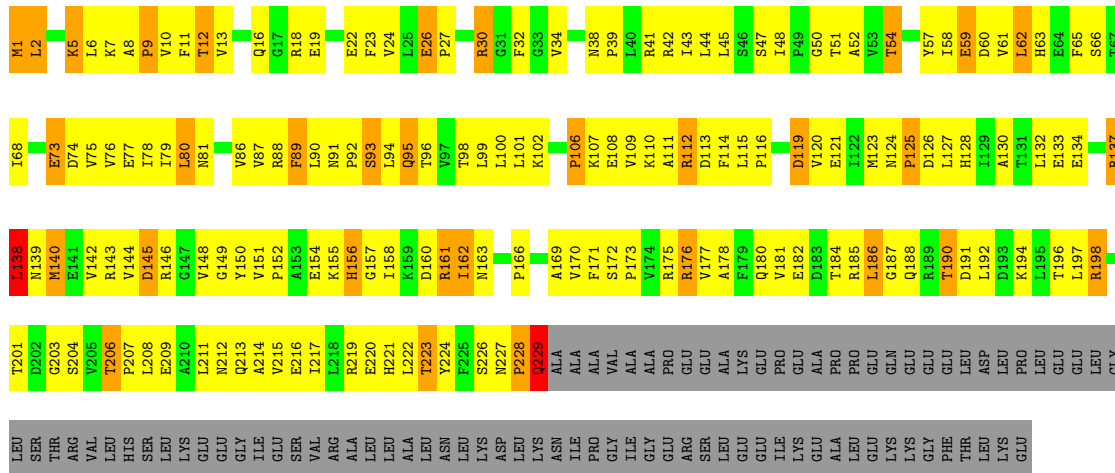
• Molecule 1: RNA polymerase alpha subunit

Chain K: 17% 43% 11% 27%



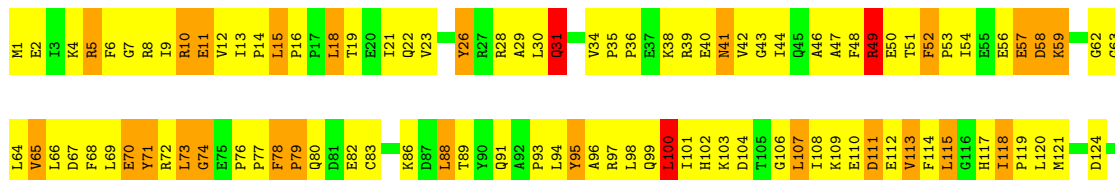
• Molecule 1: RNA polymerase alpha subunit

Chain L: 20% 42% 10% 27%

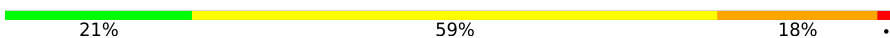


• Molecule 2: RNA polymerase beta subunit

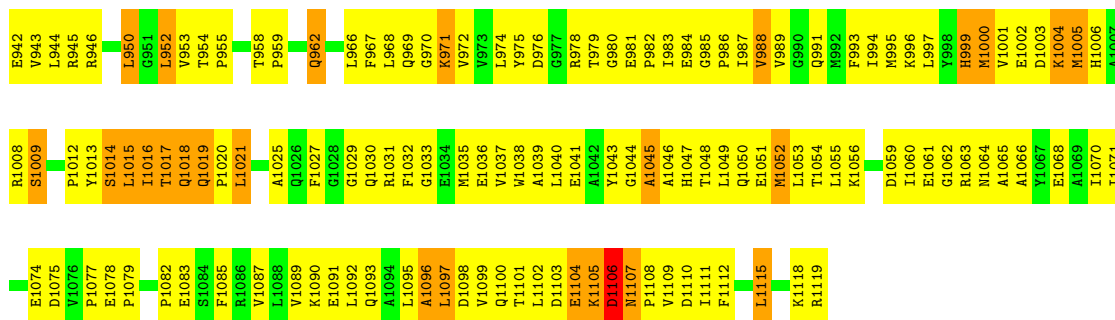
Chain C: 23% 58% 17%



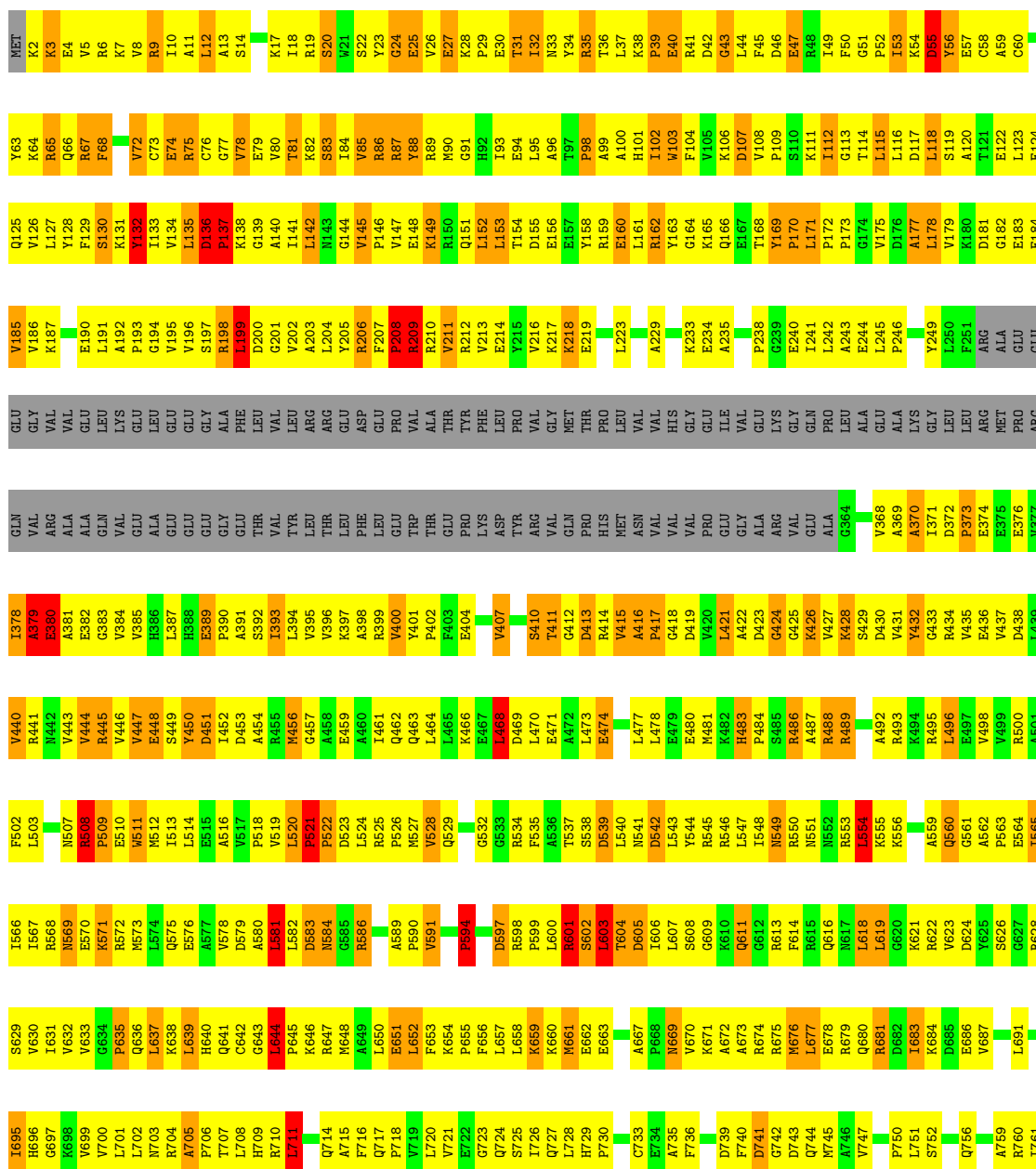
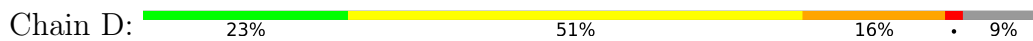
● Molecule 2: RNA polymerase beta subunit

Chain M:  21% 59% 18%

M1	G62	T122	K185	K249	L310	L372	Y435	A497	L625	A687	P751	E814	S878
E2	G63	E123	V186	R250	F311	V373	G436	Q498	R626	I688	G752	L815	R879
I3	L64	D124	V187	D251	A312	N374	R437	A499	R627	M689	D753	K816	M880
F6	V65		K188	K252	L313	S375	I438	N500	R630	I690	F754	K817	M881
G7	L66	F127	K189	A253	T314	R376	T566	T501	S631	Q667	V755	G818	
R8	D67	I128	K190	V254	A315	P377	P440	P502	S632	E692	V756	V819	Q894
I9	F68	I128	F191	A255	G316	L378	V441	L503	M632	E693	G757	R820	L885
R10	L69	M130	F192	Y256	P317	E379	E442	G504	Q633	L694	R758	R821	L886
E11	E70	G131	F193	V257	P318	A380	T443	G505	G634	L695	T759	R822	L887
V12	Y71	A132	V194	G258	G319	P444	P444	N506	T635	K696	S760	R823	T888
I13	R72	D133	L195	G259	H320	L195	E445	R507	A636	I697	F761	R824	H889
L14	L73	R134	L196	L260	E321	E384	M448	I508	L637	R698	K762	R825	L890
L15	G74	V135	L197	I263	V322	F385	I449	A509	D638	F699	G763	Y826	G891
L16	E75	I136	R198	A262	D323	F386	I449	A510	Q639	Y700		V827	L892
P17	P76	V137	V199	D263	D324	S397	G450	E511	R640	T701	E766	A828	L893
P18	P77	S138	L200	P264	I325	R388	L451	R512	P641	I705	P767	K829	G894
L18	F78	Q139	G201	R265	D326	S389	I452	V513	R642	I706	T768	K830	T895
T19	P79	I140	Y202	R266	H327	S392	T453	V514	V643	E706	F769	R831	F896
E20	Q80		D203	Y267	L328	S392	S454	A515	V644	R707	E770	K832	L897
I21	D81	S143	Q204	D268	G329	Q393	L455	R516	V645	I710	E771	L833	G898
Q22	E82	P144	Q205	L269	N330	F394	A456	R517	G646	I711	R772	K838	Q899
V23	C83	G145	E205	G270	R331	K395	A457	K518	Q647	E711	G773	L839	R900
E24	R84	V146	L207	E271	R332	D396	Y458	G619	R648	A712	L774	L840	Y901
S25	S85	Y147	A208	A272	I333	E397	A459	E520	V649	R713	R775	A841	I902
Y26	K86	F148	R209	G273	R334	T398	R460	P521	R650	D714	S776	M841	S903
R27	D87	I149	E210	R274	T335	M399	V461	V822	K651	T715	I777	R842	P904
R28	L88	P150	L211	Y275	V336	P400	D462	I523	G652	R716	G778	H843	I905
A29	T89	F151	L211	K276	G337	L401	E463	V524	R653	L717	G779	K844	P906
L30	L90	P152	Y214	A277	E338	S402	L464	S525	L654	G718	L773	K845	D907
Q31	Q91	A153	G215	E278	R339	S403	G465	P826	L655	P719	R780	L839	Y908
A32	A92	R154	E215	E279	M340	L404	F466	E527	A656	E720	A782	V848	A909
D33	P93	P155	L217	K280	T341	R405	I467	E528	D657	R721	R783	V849	K910
P35	Y95	G156	V218	L281	D342	H406	R468	V829	G658	I722	D784	A850	E911
P36	A96	Y158	Q219	R284	F343	R408	P470	E530	P659	R723	R785	K851	P912
P37	R97	I159	L221	R284	R345	R409	Y471	V534	A660	R724	K786	L852	E913
K38	L98		M222	L285	R346	I410	R472	S635	E661	D725	D787	L853	I914
R39	Q99		D223	S286	G347	S411	R473	P636	E662	I726	T788	P854	K915
E40	L100	I162		G287	L348	A412	V474	Q537	M663	R727	S789	V855	E916
M41	I101	P164	V226	R288	A349	L413	V475	Q538	G664	H728	L790	E856	L917
V42	H102	L165	F227	T289	R350	G414	G476	Q538	F665	L729	R791	D857	L918
Q43	K103	P166	A228	L290	L351	G415	G477	S541	L666	S730	G792	M858	A919
I44	D104	K167	M229	A291	A352	V478	V478	R610	A667	E731	G793	P859	Q920
Q45	T105	R168	R230	R292	R353	R429	V479	N543	L668	A732	A732	H860	A921
A46	G106	G169	P231	F293	G354	L418	T480	E544	G669	L734	G794	P861	Y925
A47	L107	P170	E232		V355	R420	D481	N545	M671	R735	R795	P862	Y926
F48	I108	M171	E233	G296	R356	E421	D482	N545	M672	R736	I799	G863	G927
R49	K109	I172	E233	E297	E357	R422	V483	P543	L673	L737	V800	T865	K928
E50	E110	D173	R237	F298	R358	R423	V484	F542	R610	D738	V800	P866	R929
T51	D111	L174	L238	K239	M359	G424	V485	L550	A675	E739	T803	K930	K930
F52	E112	E175	F239	D300	L360	F425	M486	E551	L676	E740	R804	P867	G931
P53	V113	V176	T240	E301	G364	D426	T487	H552	F679	G741	R805	D868	E932
L54	F114	E177	L241	V302	D365	V427	R428	D553	R614	V742	L806	L870	G933
E55	L115	P178	L242	F303	R366	R428	E490	D554	D680	V743	R807	L871	F934
E56	G116	N179	L242	L304	S366	D429	E491	A555	G681	R744	R808	N872	G934
E57	H117	G180	P244	P305	L367	V430	D492	M556	D617		G809	P873	D937
D58	I118	V181	G245	T306	T368	H431	R493	R557	M683	A747	D810	L874	K938
K59	P119	V182	D246	L307	P369	H432	T494	A558	F684	E748	P811	G875	R939
G60	L120	S183	P247	R308	P369	T433	T495	L559	E685	V749	E940	V876	E940
K61	M121	M184	P248	Y309	K371	H434	I496	M560	D686	K750	V813	P877	V941

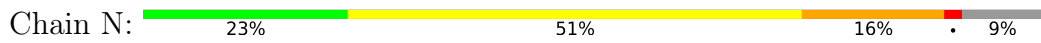


• Molecule 3: RNA polymerase beta subunit



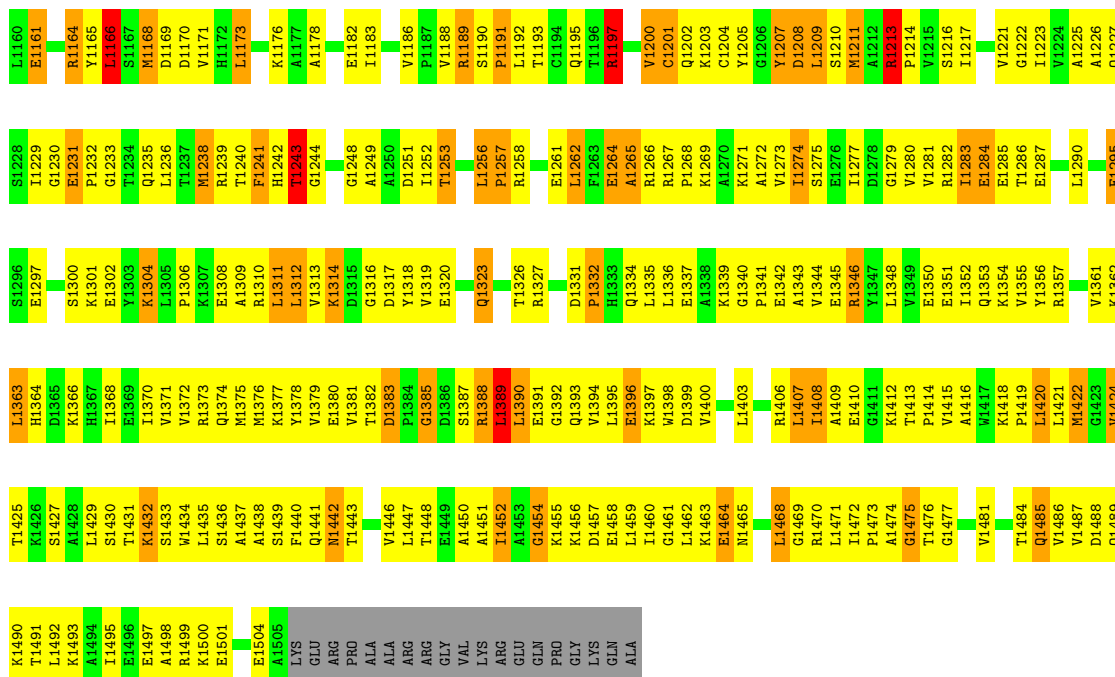
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• Molecule 3: RNA polymerase beta subunit



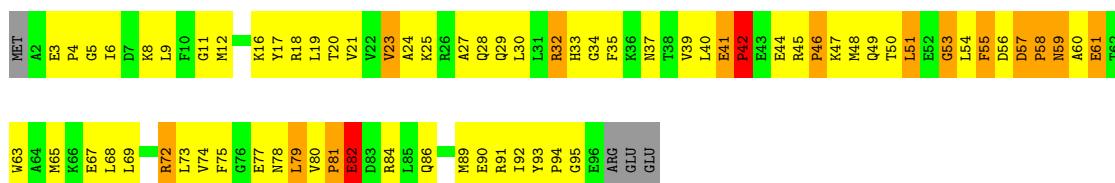
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- Molecule 4: RNA polymerase omega subunit

Chain E: 24% 56% 14%



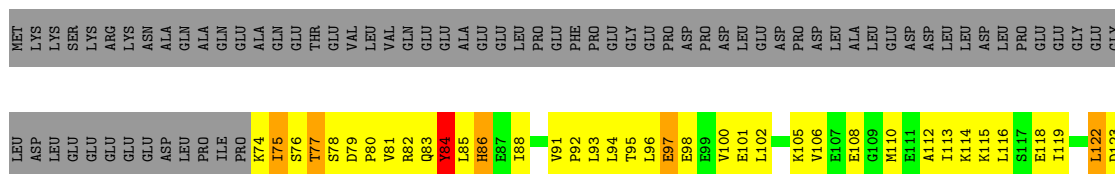
- Molecule 4: RNA polymerase omega subunit

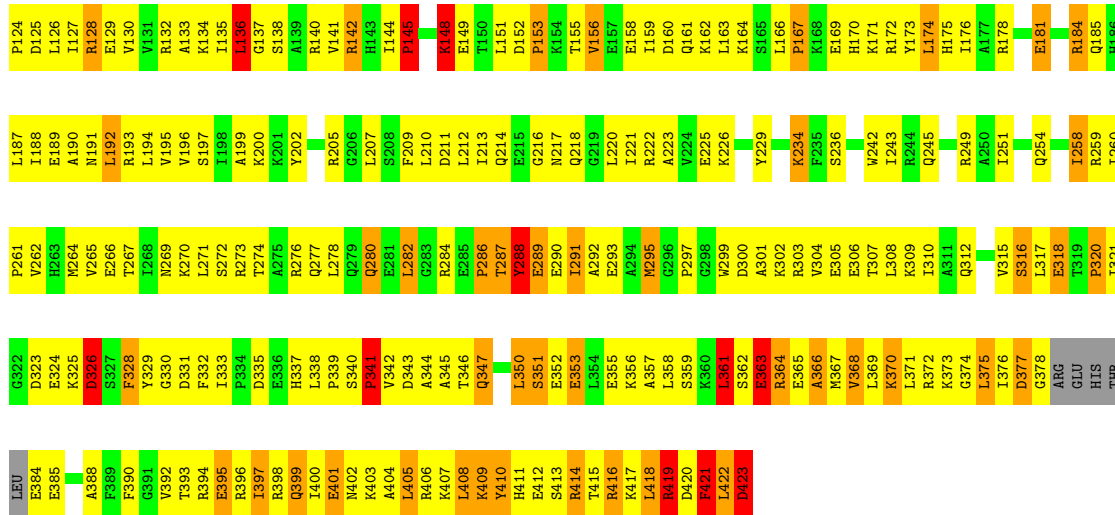
Chain O: 24% 60% 11%



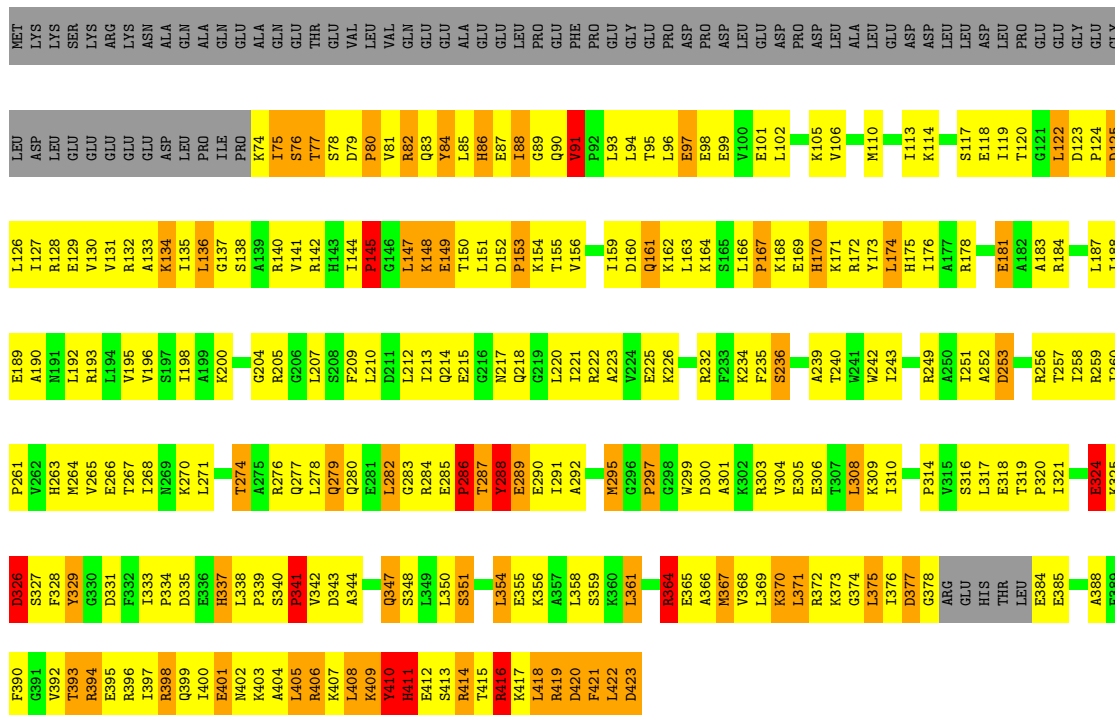
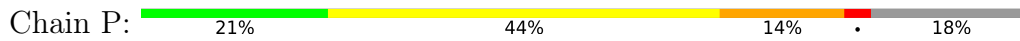
- Molecule 5: RNA polymerase sigma-70 subunit

Chain F: 20% 47% 12% 18%





● Molecule 5: RNA polymerase sigma-70 subunit



4 Data and refinement statistics

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

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	236.35Å 236.35Å 249.04Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	40.00 – 2.60	Depositor
% Data completeness (in resolution range)	(Not available) (40.00-2.60)	Depositor
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.228 , 0.274	Depositor
Estimated twinning fraction	No twinning to report.	Xtrriage
Total number of atoms	59529	wwPDB-VP
Average B, all atoms (Å ²)	58.0	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: MG, PB

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	0.68	0/1838	0.87	4/2498 (0.2%)
1	B	0.68	0/1838	0.85	7/2498 (0.3%)
1	K	0.66	1/1838 (0.1%)	0.85	5/2498 (0.2%)
1	L	0.67	0/1838	0.90	4/2498 (0.2%)
2	C	0.72	3/8997 (0.0%)	0.97	30/12164 (0.2%)
2	M	0.73	2/8997 (0.0%)	0.97	26/12164 (0.2%)
3	D	0.71	8/10979 (0.1%)	1.01	52/14844 (0.4%)
3	N	0.73	6/10979 (0.1%)	1.02	38/14844 (0.3%)
4	E	0.72	0/783	1.01	2/1054 (0.2%)
4	O	0.71	0/783	1.02	2/1054 (0.2%)
5	F	0.90	8/2812 (0.3%)	1.08	20/3781 (0.5%)
5	P	0.85	4/2812 (0.1%)	1.12	20/3781 (0.5%)
All	All	0.73	32/54494 (0.1%)	0.99	210/73678 (0.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	D	0	3
3	N	0	3
5	F	0	1
All	All	0	7

All (32) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	401	GLU	CG-CD	13.42	1.72	1.51
5	F	401	GLU	CB-CG	13.27	1.77	1.52
5	P	401	GLU	CG-CD	13.01	1.71	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	P	401	GLU	CB-CG	12.94	1.76	1.52
5	F	423	ASP	C-OXT	11.47	1.45	1.23
5	F	419	ARG	CB-CG	8.88	1.76	1.52
5	P	423	ASP	C-OXT	8.52	1.39	1.23
3	D	380	GLU	C-N	-7.36	1.17	1.34
5	F	350	LEU	CG-CD1	-7.22	1.25	1.51
3	N	380	GLU	C-N	-7.18	1.17	1.34
1	K	229	GLN	C-O	6.39	1.35	1.23
3	D	378	ILE	C-O	6.24	1.35	1.23
2	M	264	PRO	CB-CG	-6.12	1.19	1.50
3	N	177	ALA	CA-CB	-6.04	1.39	1.52
3	N	372	ASP	C-N	6.03	1.45	1.34
5	F	419	ARG	CG-CD	5.98	1.66	1.51
3	D	372	ASP	C-N	5.85	1.45	1.34
5	P	421	PHE	CB-CG	-5.71	1.41	1.51
3	D	380	GLU	C-O	5.63	1.34	1.23
3	N	378	ILE	C-O	5.47	1.33	1.23
2	M	291	ALA	CA-CB	-5.47	1.41	1.52
3	D	379	ALA	C-N	-5.37	1.21	1.34
3	N	1101	VAL	CB-CG2	-5.34	1.41	1.52
2	C	58	ASP	CA-C	-5.33	1.39	1.52
3	N	380	GLU	C-O	5.26	1.33	1.23
5	F	366	ALA	CA-CB	-5.25	1.41	1.52
2	C	291	ALA	CA-CB	-5.23	1.41	1.52
3	D	245	LEU	C-N	-5.17	1.24	1.34
3	D	208	PRO	CA-C	5.10	1.63	1.52
3	D	891	GLU	CB-CG	5.08	1.61	1.52
5	F	363	GLU	CB-CG	5.02	1.61	1.52
2	C	57	GLU	CG-CD	-5.01	1.44	1.51

All (210) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	229	GLN	CA-C-O	17.63	157.12	120.10
5	P	416	ARG	NE-CZ-NH1	13.69	127.14	120.30
2	C	243	ARG	C-N-CD	-12.01	94.19	120.60
2	M	163	ILE	C-N-CD	-11.12	96.14	120.60
3	D	380	GLU	CA-C-O	-11.07	96.85	120.10
5	P	419	ARG	NE-CZ-NH1	10.92	125.76	120.30
2	C	163	ILE	C-N-CD	-10.81	96.81	120.60
3	N	380	GLU	CA-C-O	-10.59	97.86	120.10
3	D	603	LEU	CA-CB-CG	-10.39	91.41	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	199	LEU	CA-CB-CG	-10.29	91.64	115.30
5	F	361	LEU	CA-CB-CG	10.04	138.40	115.30
2	M	243	ARG	C-N-CD	-9.86	98.92	120.60
3	D	199	LEU	CA-CB-CG	-9.77	92.84	115.30
5	F	423	ASP	CA-C-O	9.62	140.29	120.10
3	D	637	LEU	CA-CB-CG	9.56	137.29	115.30
2	C	49	ARG	NE-CZ-NH1	9.17	124.89	120.30
3	D	171	LEU	CA-CB-CG	9.13	136.31	115.30
5	F	84	TYR	CA-CB-CG	8.73	129.98	113.40
3	N	639	LEU	CA-CB-CG	8.71	135.34	115.30
5	P	423	ASP	CB-CG-OD2	8.63	126.07	118.30
3	N	380	GLU	CA-C-N	8.43	135.75	117.20
2	C	269	LEU	CA-CB-CG	8.42	134.66	115.30
3	D	380	GLU	CA-C-N	8.35	135.57	117.20
5	P	410	TYR	CA-CB-CG	-8.34	97.56	113.40
3	N	132	TYR	CA-CB-CG	-8.26	97.70	113.40
3	N	1124	GLN	C-N-CD	-8.22	102.51	120.60
3	D	208	PRO	N-CA-C	8.04	133.01	112.10
3	D	378	ILE	CA-C-N	8.00	134.81	117.20
3	N	1420	LEU	CA-CB-CG	7.98	133.66	115.30
3	N	637	LEU	CA-CB-CG	7.95	133.58	115.30
3	N	378	ILE	CA-C-N	7.88	134.53	117.20
3	D	831	GLY	N-CA-C	-7.85	93.47	113.10
3	N	831	GLY	N-CA-C	-7.81	93.58	113.10
2	C	18	LEU	CA-CB-CG	-7.76	97.46	115.30
3	N	208	PRO	N-CA-C	7.54	131.72	112.10
5	F	421	PHE	CB-CG-CD2	-7.54	115.52	120.80
2	M	319	GLY	N-CA-C	-7.53	94.28	113.10
5	P	411	HIS	CB-CA-C	7.53	125.45	110.40
3	D	639	LEU	CA-CB-CG	7.48	132.50	115.30
5	F	136	LEU	CA-CB-CG	7.47	132.47	115.30
1	A	229	GLN	CA-C-O	7.43	135.71	120.10
2	M	360	LEU	CA-CB-CG	7.42	132.36	115.30
3	D	554	LEU	CA-CB-CG	7.40	132.33	115.30
5	F	410	TYR	CA-CB-CG	-7.35	99.43	113.40
1	B	229	GLN	CA-C-O	7.31	135.45	120.10
5	F	401	GLU	OE1-CD-OE2	-7.27	114.58	123.30
2	C	319	GLY	N-CA-C	-7.24	95.00	113.10
5	P	419	ARG	NH1-CZ-NH2	-7.18	111.50	119.40
3	D	1124	GLN	C-N-CD	-7.11	104.97	120.60
3	N	209	ARG	N-CA-C	6.98	129.84	111.00
3	D	209	ARG	N-CA-C	6.97	129.82	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	100	LEU	CA-CB-CG	6.93	131.23	115.30
3	N	1126	ASP	N-CA-C	6.84	129.48	111.00
4	O	49	GLN	N-CA-C	6.81	129.40	111.00
3	D	739	ASP	CB-CG-OD1	6.79	124.42	118.30
5	F	184	ARG	NE-CZ-NH2	-6.67	116.97	120.30
3	D	132	TYR	CA-CB-CG	-6.65	100.77	113.40
4	E	49	GLN	N-CA-C	6.63	128.91	111.00
3	D	644	LEU	CA-CB-CG	6.63	130.54	115.30
3	D	1166	LEU	CA-CB-CG	6.62	130.52	115.30
2	C	1021	LEU	CA-CB-CG	-6.60	100.11	115.30
3	N	371	ILE	CA-C-N	6.58	131.67	117.20
5	F	419	ARG	CB-CG-CD	6.55	128.62	111.60
3	N	619	LEU	CA-CB-CG	6.53	130.33	115.30
5	P	418	LEU	CA-CB-CG	6.50	130.25	115.30
5	P	401	GLU	OE1-CD-OE2	-6.50	115.50	123.30
2	C	244	PRO	CA-N-CD	-6.45	102.47	111.50
3	N	171	LEU	CA-CB-CG	6.39	129.99	115.30
3	D	201	GLY	N-CA-C	-6.34	97.26	113.10
2	C	853	LEU	CA-CB-CG	6.33	129.85	115.30
3	D	1395	LEU	CA-CB-CG	6.31	129.81	115.30
3	D	371	ILE	CA-C-N	6.30	131.07	117.20
3	N	201	GLY	N-CA-C	-6.28	97.40	113.10
2	M	73	LEU	CA-CB-CG	6.22	129.61	115.30
5	P	421	PHE	CB-CG-CD2	-6.21	116.45	120.80
2	C	455	LEU	CA-CB-CG	6.20	129.55	115.30
2	M	260	LEU	N-CA-C	6.18	127.70	111.00
3	D	1126	ASP	N-CA-C	6.16	127.64	111.00
5	F	423	ASP	CB-CG-OD2	6.13	123.82	118.30
5	F	377	ASP	N-CA-C	-6.13	94.45	111.00
3	N	1290	LEU	CA-CB-CG	6.11	129.35	115.30
3	N	1087	ARG	NE-CZ-NH2	-6.10	117.25	120.30
3	N	1166	LEU	CA-CB-CG	6.07	129.25	115.30
2	C	1102	LEU	CA-CB-CG	-6.03	101.44	115.30
5	P	411	HIS	CA-CB-CG	6.01	123.82	113.60
1	A	2	LEU	N-CA-C	6.00	127.20	111.00
2	M	917	LEU	CA-CB-CG	-6.00	101.51	115.30
5	F	419	ARG	NE-CZ-NH1	6.00	123.30	120.30
2	C	260	LEU	N-CA-C	5.99	127.18	111.00
3	N	199	LEU	C-N-CA	-5.98	106.75	121.70
3	D	245	LEU	CA-C-O	-5.93	107.65	120.10
1	A	187	GLY	N-CA-C	5.91	127.88	113.10
5	P	371	LEU	CB-CG-CD1	-5.91	100.96	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	199	LEU	CA-C-N	5.90	130.18	117.20
1	B	197	LEU	CA-CB-CG	5.89	128.85	115.30
1	K	187	GLY	N-CA-C	5.88	127.79	113.10
3	D	378	ILE	O-C-N	-5.87	113.30	122.70
3	D	468	LEU	CA-CB-CG	5.86	128.79	115.30
3	D	581	LEU	CA-CB-CG	5.83	128.72	115.30
5	P	410	TYR	CB-CG-CD2	-5.83	117.50	121.00
1	L	138	LEU	CA-CB-CG	5.82	128.69	115.30
2	C	100	LEU	CA-CB-CG	5.82	128.69	115.30
3	D	899	LEU	CA-CB-CG	5.79	128.63	115.30
3	N	1209	LEU	N-CA-C	-5.79	95.36	111.00
3	N	902	LEU	CA-CB-CG	5.76	128.55	115.30
3	N	813	LEU	CA-CB-CG	5.74	128.51	115.30
3	N	378	ILE	O-C-N	-5.74	113.52	122.70
3	D	1209	LEU	N-CA-C	-5.73	95.53	111.00
3	D	1389	LEU	N-CA-C	5.71	126.42	111.00
3	N	468	LEU	CA-CB-CG	5.69	128.39	115.30
3	D	1068	LEU	CA-CB-CG	-5.67	102.25	115.30
1	L	2	LEU	N-CA-C	5.66	126.29	111.00
3	D	217	LYS	CA-C-N	5.66	129.65	117.20
1	B	186	LEU	CA-CB-CG	-5.65	102.31	115.30
2	M	244	PRO	CA-N-CD	-5.65	103.59	111.50
1	A	197	LEU	CA-CB-CG	5.64	128.27	115.30
1	K	218	LEU	CA-CB-CG	5.64	128.27	115.30
2	M	795	GLY	N-CA-C	-5.63	99.02	113.10
1	L	198	ARG	NE-CZ-NH2	-5.63	117.48	120.30
3	N	899	LEU	CA-CB-CG	5.61	128.21	115.30
3	D	1311	LEU	CA-CB-CG	5.61	128.21	115.30
1	K	90	LEU	CA-CB-CG	-5.61	102.39	115.30
3	D	218	LYS	CA-C-N	5.60	129.53	117.20
3	D	711	LEU	CA-CB-CG	5.60	128.19	115.30
3	N	1389	LEU	N-CA-C	5.60	126.13	111.00
5	P	354	LEU	CA-CB-CG	5.60	128.19	115.30
3	D	1116	ASN	N-CA-C	-5.60	95.89	111.00
3	D	583	ASP	CB-CG-OD1	-5.59	113.26	118.30
1	B	127	LEU	CA-CB-CG	5.58	128.13	115.30
5	P	416	ARG	NH1-CZ-NH2	-5.58	113.27	119.40
2	C	165	LEU	C-N-CD	-5.57	108.35	120.60
3	D	839	LEU	CA-CB-CG	5.56	128.09	115.30
1	K	2	LEU	N-CA-C	5.55	125.98	111.00
1	B	2	LEU	N-CA-C	5.54	125.95	111.00
5	F	419	ARG	CB-CA-C	-5.51	99.39	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	138	LEU	CA-CB-CG	5.49	127.93	115.30
2	C	57	GLU	C-N-CA	-5.49	107.98	121.70
5	F	75	ILE	C-N-CA	5.47	135.38	121.70
3	N	920	LEU	CA-CB-CG	5.47	127.88	115.30
2	M	261	ILE	N-CA-C	5.46	125.75	111.00
2	C	728	HIS	CA-C-N	5.46	129.21	117.20
2	C	261	ILE	N-CA-C	5.46	125.73	111.00
2	M	728	HIS	N-CA-C	5.46	125.73	111.00
2	C	235	LEU	CA-CB-CG	5.45	127.83	115.30
2	C	310	LEU	CA-CB-CG	-5.45	102.77	115.30
2	M	737	LEU	CA-CB-CG	5.43	127.79	115.30
3	D	448	GLU	N-CA-C	5.43	125.66	111.00
2	M	886	LEU	CA-CB-CG	-5.42	102.83	115.30
3	N	371	ILE	O-C-N	-5.42	114.02	122.70
2	C	243	ARG	C-N-CA	5.42	144.75	122.00
3	D	199	LEU	CA-C-N	5.39	129.06	117.20
5	F	419	ARG	N-CA-CB	5.39	120.31	110.60
2	C	950	LEU	CA-CB-CG	5.39	127.70	115.30
2	M	728	HIS	CA-C-N	5.38	129.04	117.20
2	C	728	HIS	N-CA-C	5.38	125.52	111.00
5	F	337	HIS	CB-CA-C	-5.35	99.70	110.40
2	M	1118	LYS	C-N-CA	5.32	134.99	121.70
2	C	737	LEU	CA-CB-CG	5.31	127.52	115.30
2	M	264	PRO	CA-N-CD	-5.31	104.07	111.50
3	D	199	LEU	N-CA-C	5.31	125.33	111.00
2	C	178	PRO	N-CA-C	5.30	125.88	112.10
3	D	1038	LEU	CA-CB-CG	5.30	127.49	115.30
2	M	729	LEU	N-CA-C	5.30	125.31	111.00
5	P	75	ILE	C-N-CA	5.30	134.95	121.70
2	C	1118	LYS	C-N-CA	5.30	134.94	121.70
5	F	91	VAL	C-N-CD	5.29	139.52	128.40
3	D	813	LEU	CA-CB-CG	5.29	127.47	115.30
3	N	393	ILE	CB-CA-C	-5.29	101.03	111.60
3	N	448	GLU	N-CA-C	5.28	125.25	111.00
3	D	581	LEU	CB-CG-CD2	-5.27	102.04	111.00
2	C	73	LEU	C-N-CA	-5.27	111.23	122.30
4	O	49	GLN	CA-C-N	5.27	128.79	117.20
5	F	368	VAL	CG1-CB-CG2	-5.25	102.50	110.90
3	D	1087	ARG	CA-CB-CG	-5.22	101.91	113.40
5	P	377	ASP	N-CA-C	-5.22	96.90	111.00
3	D	618	LEU	CA-CB-CG	-5.21	103.33	115.30
3	N	207	PHE	C-N-CA	5.20	143.86	122.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	729	LEU	N-CA-C	5.18	124.99	111.00
3	D	198	ARG	C-N-CA	-5.18	108.75	121.70
3	D	371	ILE	O-C-N	-5.18	114.41	122.70
3	N	199	LEU	N-CA-C	5.18	124.97	111.00
5	P	337	HIS	CB-CA-C	-5.17	100.06	110.40
2	C	795	GLY	N-CA-C	-5.17	100.18	113.10
3	N	1389	LEU	CA-C-N	5.16	128.56	117.20
4	E	49	GLN	CA-C-N	5.16	128.54	117.20
1	B	138	LEU	CA-CB-CG	5.15	127.15	115.30
5	P	367	MET	CG-SD-CE	5.15	108.44	100.20
5	F	350	LEU	CD1-CG-CD2	-5.14	95.08	110.50
2	M	178	PRO	N-CA-C	5.12	125.42	112.10
2	M	165	LEU	C-N-CD	-5.12	109.34	120.60
3	D	804	LEU	CA-CB-CG	5.12	127.07	115.30
3	D	132	TYR	CA-C-N	-5.10	105.97	117.20
2	C	266	ARG	N-CA-C	-5.10	97.23	111.00
2	C	464	LEU	CA-CB-CG	-5.10	103.58	115.30
5	F	361	LEU	CB-CA-C	-5.09	100.53	110.20
1	B	176	ARG	NE-CZ-NH2	-5.08	117.76	120.30
2	M	114	PHE	CA-C-N	-5.08	106.02	117.20
2	M	266	ARG	N-CA-C	-5.08	97.28	111.00
5	P	91	VAL	C-N-CD	5.07	139.04	128.40
5	P	136	LEU	CA-CB-CG	5.06	126.94	115.30
3	D	81	THR	N-CA-C	-5.05	97.36	111.00
2	M	464	LEU	CA-CB-CG	-5.05	103.68	115.30
3	D	904	VAL	CB-CA-C	-5.04	101.82	111.40
3	D	508	ARG	C-N-CA	5.04	143.16	122.00
3	N	118	LEU	CA-CB-CG	5.03	126.86	115.30
3	N	554	LEU	CA-CB-CG	5.02	126.84	115.30
2	M	455	LEU	CA-CB-CG	5.02	126.84	115.30
3	D	244	GLU	C-N-CA	-5.00	109.19	121.70
2	M	1118	LYS	N-CA-C	5.00	124.51	111.00
2	M	1118	LYS	CA-C-N	-5.00	106.19	117.20

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	D	132	TYR	Sidechain
3	D	379	ALA	Peptide
3	D	380	GLU	Mainchain
5	F	421	PHE	Sidechain

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Mol	Chain	Res	Type	Group
3	N	132	TYR	Sidechain
3	N	379	ALA	Peptide
3	N	380	GLU	Mainchain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	247	0
1	B	1806	0	1861	213	0
1	K	1806	0	1861	216	0
1	L	1806	0	1861	213	0
2	C	8829	0	8933	1312	0
2	M	8829	0	8933	1273	0
3	D	10801	0	10887	1543	0
3	N	10801	0	10885	1539	0
4	E	769	0	775	94	0
4	O	769	0	775	106	0
5	F	2771	0	2843	392	0
5	P	2771	0	2844	429	0
6	A	18	0	0	0	0
6	B	24	0	0	0	0
6	C	63	0	0	0	0
6	D	118	0	0	1	0
6	E	6	0	0	0	0
6	F	31	0	0	0	0
6	K	20	0	0	0	0
6	L	19	0	0	0	0
6	M	64	0	0	0	0
6	N	92	0	0	0	0
6	O	8	0	0	0	0
6	P	22	0	0	0	0
7	D	2	0	0	0	0
7	N	2	0	0	0	0
8	A	194	0	0	44	0
8	B	193	0	0	50	0
8	C	869	0	0	254	0
8	D	1163	0	0	325	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	E	114	0	0	30	0
8	F	381	0	0	67	0
8	K	161	0	0	49	0
8	L	157	0	0	52	0
8	M	822	0	0	266	0
8	N	983	0	0	291	0
8	O	114	0	0	30	0
8	P	325	0	0	75	0
All	All	59529	0	54319	7072	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 65.

All (7072) 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)
5:F:419:ARG:CB	5:F:419:ARG:CG	1.76	1.60
5:P:401:GLU:CG	5:P:401:GLU:CB	1.76	1.56
5:F:401:GLU:CB	5:F:401:GLU:CG	1.77	1.55
3:N:218:LYS:CB	8:N:9902:HOH:O	1.85	1.18
1:A:94:LEU:HD21	1:A:119:ASP:HB2	1.26	1.16
5:F:358:LEU:HD11	5:F:370:LYS:HD2	1.28	1.15
5:F:361:LEU:HD12	5:F:366:ALA:HB2	1.24	1.15
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.29	1.14
3:N:218:LYS:CB	3:N:372:ASP:O	1.94	1.14
1:L:94:LEU:HD21	1:L:119:ASP:HB3	1.16	1.11
1:L:1:MET:O	1:L:6:LEU:HB2	1.51	1.10
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.34	1.08
2:M:328:LEU:HD13	2:M:433:THR:HB	1.36	1.08
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.32	1.08
3:D:972:LEU:HG	3:D:976:GLN:NE2	1.69	1.07
3:D:972:LEU:HG	3:D:976:GLN:HE22	0.94	1.07
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.13	1.06
1:B:1:MET:O	1:B:6:LEU:HB2	1.55	1.06
1:K:1:MET:O	1:K:6:LEU:HB2	1.56	1.06
3:N:616:GLN:HB2	5:P:326:ASP:HB2	1.36	1.06
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.21	1.05
5:P:76:SER:O	5:P:80:PRO:HD2	1.58	1.04
3:N:137:PRO:HD2	3:N:453:ASP:HB3	1.38	1.03
2:C:939:ARG:HB3	2:C:982:PRO:HG3	1.39	1.03
5:P:402:ASN:O	5:P:406:ARG:HD2	1.58	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.41	1.03
1:A:1:MET:O	1:A:6:LEU:HB2	1.60	1.02
2:C:368:THR:HB	2:C:369:PRO:HD3	1.41	1.02
3:N:87:ARG:O	3:N:521:PRO:HB3	1.59	1.02
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.41	1.02
3:D:370:ALA:HB1	6:D:9039:MG:MG	0.80	1.01
3:D:87:ARG:O	3:D:521:PRO:HB3	1.60	1.01
3:N:131:LYS:HG2	3:N:568:ARG:HG2	1.40	1.01
5:P:394:ARG:H	5:P:394:ARG:HD2	1.22	1.00
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.44	1.00
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.44	1.00
2:M:1055:LEU:HA	8:M:9570:HOH:O	1.62	0.99
5:P:411:HIS:HA	5:P:414:ARG:HG3	1.41	0.99
2:C:207:LEU:HD13	2:C:221:LEU:HD11	1.45	0.99
1:B:50:GLY:HA3	1:B:171:PHE:O	1.62	0.99
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.42	0.99
2:C:145:GLY:H	2:C:163:ILE:HG23	1.28	0.99
5:P:416:ARG:HD3	5:P:419:ARG:HG3	1.44	0.98
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.44	0.98
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.45	0.98
3:D:1033:GLN:HE21	3:D:1036:ARG:NH1	1.61	0.98
2:M:516:ARG:HH11	2:M:521:PRO:HB3	1.28	0.98
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.46	0.97
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.45	0.97
1:A:180:GLN:NE2	2:C:934:PHE:HB2	1.78	0.97
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.41	0.97
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.47	0.97
3:D:972:LEU:CG	3:D:976:GLN:HE22	1.78	0.97
1:K:35:THR:HB	8:K:1009:HOH:O	1.64	0.97
1:K:54:THR:HG23	1:K:158:ILE:HG13	1.46	0.97
3:N:481:MET:HE3	3:N:493:ARG:HH21	1.27	0.97
5:F:420:ASP:O	5:F:422:LEU:HD23	1.63	0.96
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.44	0.96
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.48	0.96
1:K:176:ARG:HD3	2:M:864:GLY:HA3	1.48	0.96
1:A:181:VAL:O	2:C:937:ASP:HA	1.65	0.96
2:C:770:GLU:HG2	3:D:65:ARG:HH22	1.26	0.96
3:N:646:LYS:HA	3:N:720:LEU:HD22	1.45	0.96
2:M:51:THR:HB	2:M:348:LEU:HD23	1.48	0.95
3:D:1033:GLN:HE21	3:D:1036:ARG:HH11	0.99	0.95
4:E:39:VAL:HB	4:E:72:ARG:HD2	1.44	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1310:ARG:HE	3:D:1327:ARG:HB3	1.29	0.95
3:D:861:GLN:H	3:D:861:GLN:HE21	1.13	0.95
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.45	0.95
5:P:94:LEU:HD13	5:P:96:LEU:H	1.28	0.95
2:C:49:ARG:NH1	2:C:49:ARG:HB2	1.81	0.95
3:D:699:VAL:H	3:D:756:GLN:HE22	0.98	0.94
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.47	0.94
1:B:54:THR:HG23	1:B:158:ILE:HG13	1.47	0.94
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.48	0.94
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.50	0.94
3:N:137:PRO:HD2	3:N:453:ASP:CB	1.98	0.94
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.47	0.94
3:N:1209:LEU:HD13	3:N:1216:SER:H	1.32	0.94
3:N:1213:ARG:HB2	3:N:1214:PRO:HD2	1.49	0.94
3:N:1389:LEU:H	3:N:1389:LEU:HD23	1.33	0.94
3:N:425:GLY:HA3	5:P:135:ILE:HD13	1.49	0.94
2:C:640:ARG:HH11	2:C:642:ARG:HH12	1.03	0.93
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.48	0.93
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.48	0.93
3:D:126:VAL:HG13	3:D:132:TYR:HB2	1.51	0.93
2:M:269:LEU:HA	2:M:288:ARG:HE	1.31	0.93
2:M:274:ARG:HB2	2:M:288:ARG:HH12	1.32	0.93
3:D:861:GLN:H	3:D:861:GLN:NE2	1.66	0.93
2:M:461:VAL:HG13	2:M:465:GLY:HA2	1.50	0.93
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.50	0.93
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.51	0.92
2:M:572:ILE:HD11	2:M:701:THR:HB	1.51	0.92
3:N:465:LEU:HD23	3:N:468:LEU:HD11	1.49	0.92
3:D:65:ARG:HB2	5:F:375:LEU:HA	1.49	0.92
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.49	0.92
2:M:73:LEU:HB3	2:M:93:PRO:O	1.68	0.92
5:P:369:LEU:HD11	5:P:401:GLU:HG3	1.50	0.92
2:C:751:PRO:HB2	3:D:680:GLN:HG3	1.50	0.92
2:M:100:LEU:HD23	2:M:372:LEU:HD11	1.49	0.92
3:N:161:LEU:O	3:N:449:SER:HB2	1.70	0.92
2:M:1005:MET:HB3	8:N:9578:HOH:O	1.67	0.92
3:N:861:GLN:HE21	3:N:861:GLN:H	0.94	0.92
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.51	0.92
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.35	0.92
3:D:890:VAL:HG12	3:D:926:LYS:HG2	1.52	0.92
3:N:1304:LYS:H	3:N:1304:LYS:HD3	1.35	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:478:VAL:HG13	2:C:506:ASN:HB3	1.51	0.92
3:N:784:ASP:HA	8:N:2330:HOH:O	1.69	0.92
2:M:939:ARG:HB3	2:M:982:PRO:HG3	1.50	0.91
3:N:138:LYS:H	3:N:138:LYS:HD2	1.35	0.91
3:N:1090:ASP:HB3	3:N:1093:TYR:HB2	1.50	0.91
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.49	0.91
3:D:98:PRO:HG2	3:D:462:GLN:HE22	1.34	0.91
3:D:101:HIS:CD2	3:D:582:LEU:HD13	2.05	0.91
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.52	0.91
1:L:12:THR:HG23	1:L:24:VAL:HB	1.49	0.91
8:M:2268:HOH:O	5:P:342:VAL:HA	1.71	0.91
5:P:413:SER:HA	5:P:419:ARG:HE	1.35	0.91
2:M:328:LEU:H	2:M:433:THR:HG21	1.36	0.91
2:M:130:ASN:HA	8:M:9667:HOH:O	1.70	0.91
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.51	0.91
3:N:422:ALA:H	3:N:427:VAL:HG11	1.36	0.91
3:D:1304:LYS:H	3:D:1304:LYS:HD3	1.36	0.91
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.34	0.91
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.49	0.91
5:P:416:ARG:HH11	5:P:419:ARG:HD2	1.34	0.90
2:C:1095:LEU:HA	3:D:582:LEU:CD2	2.01	0.90
2:M:145:GLY:H	2:M:163:ILE:HG23	1.36	0.90
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.51	0.90
2:C:436:GLY:HA2	2:C:538:GLN:O	1.71	0.90
3:N:699:VAL:H	3:N:756:GLN:HE22	1.19	0.90
3:N:1087:ARG:NH2	3:N:1256:LEU:HD22	1.85	0.90
3:D:132:TYR:HA	8:D:9952:HOH:O	1.72	0.90
5:F:76:SER:O	5:F:80:PRO:HD2	1.69	0.90
2:M:108:ILE:HB	2:M:368:THR:OG1	1.70	0.90
3:N:868:TYR:HD1	3:N:869:MET:H	1.16	0.90
2:M:420:ARG:HD2	2:M:420:ARG:H	1.37	0.90
2:M:66:LEU:HD22	2:M:372:LEU:HD13	1.54	0.89
1:L:108:GLU:HB3	1:L:128:HIS:HE1	1.36	0.89
4:E:40:LEU:HB2	4:E:45:ARG:HD2	1.53	0.89
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.52	0.89
5:P:135:ILE:HD11	5:P:178:ARG:HB3	1.52	0.89
2:M:1015:LEU:HA	5:P:335:ASP:HB3	1.55	0.89
2:C:585:GLU:HB3	8:C:9492:HOH:O	1.72	0.89
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.55	0.89
2:C:140:ILE:HG23	2:C:333:ILE:HD12	1.53	0.88
5:F:278:LEU:HD13	5:F:290:GLU:HB3	1.50	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1045:MET:HG2	3:D:1073:SER:HA	1.55	0.88
3:D:136:ASP:HB3	3:D:137:PRO:CD	2.02	0.88
2:M:73:LEU:HD23	2:M:94:LEU:HB2	1.55	0.88
4:O:51:LEU:HG	4:O:53:GLY:H	1.38	0.88
3:N:799:LYS:HA	8:N:2140:HOH:O	1.71	0.88
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.38	0.88
3:N:565:ILE:H	3:N:565:ILE:HD12	1.36	0.88
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.52	0.88
3:D:462:GLN:HG3	3:D:513:ILE:HD13	1.56	0.88
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.53	0.88
2:C:15:LEU:HD22	2:C:15:LEU:H	1.39	0.88
2:C:100:LEU:HG	2:C:368:THR:HG23	1.56	0.88
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.38	0.88
3:D:569:ASN:HD21	5:F:210:LEU:HD22	1.38	0.87
3:N:556:LYS:HA	8:N:9490:HOH:O	1.72	0.87
1:B:133:GLU:HG3	1:B:134:GLU:H	1.38	0.87
3:D:118:LEU:HB3	3:D:123:LEU:HD22	1.56	0.87
3:D:119:SER:HB2	3:D:123:LEU:H	1.37	0.87
3:N:39:PRO:HB3	3:N:45:PHE:O	1.75	0.87
3:N:126:VAL:HG13	3:N:132:TYR:HB2	1.57	0.87
3:N:197:SER:HB2	3:N:205:TYR:CE1	2.08	0.87
3:N:704:ARG:HG3	8:N:9496:HOH:O	1.74	0.87
3:N:1385:GLY:HA2	8:N:9997:HOH:O	1.73	0.87
2:C:586:ARG:HD3	2:C:590:ASP:OD2	1.75	0.87
3:D:1394:VAL:HB	3:D:1397:LYS:HG3	1.56	0.87
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.14	0.87
3:N:616:GLN:O	3:N:619:LEU:HB3	1.75	0.87
2:C:413:LEU:H	2:C:413:LEU:HD12	1.40	0.87
2:M:432:ARG:HH12	3:N:1047:LYS:HE2	1.35	0.87
2:C:650:ARG:H	2:C:650:ARG:HD3	1.39	0.87
3:N:430:ASP:HB2	3:N:432:TYR:CE2	2.09	0.87
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.56	0.87
1:B:132:LEU:HD21	1:B:138:LEU:HD22	1.57	0.87
2:M:577:PRO:HA	2:M:671:ASN:HD21	1.39	0.87
1:K:143:ARG:HH11	1:K:143:ARG:HG3	1.40	0.87
1:A:5:LYS:HA	1:A:5:LYS:HE3	1.56	0.86
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.54	0.86
3:N:994:GLN:HG3	8:N:2307:HOH:O	1.73	0.86
3:D:101:HIS:HD2	3:D:582:LEU:HD13	1.41	0.86
3:D:141:ILE:HD13	3:D:449:SER:HA	1.57	0.86
2:M:430:VAL:HG23	3:N:1078:ARG:CZ	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1045:MET:CG	3:N:1073:SER:HA	2.05	0.86
4:O:40:LEU:HD21	4:O:67:GLU:HA	1.57	0.86
2:C:1102:LEU:HD13	3:D:9:ARG:HB3	1.55	0.86
3:D:547:LEU:HD22	3:D:581:LEU:HD21	1.56	0.86
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.58	0.86
5:P:420:ASP:O	5:P:422:LEU:HD23	1.74	0.86
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.56	0.86
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.56	0.86
2:C:487:THR:HG22	2:C:489:THR:H	1.38	0.86
3:D:39:PRO:HB3	3:D:45:PHE:O	1.75	0.86
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.39	0.86
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.38	0.86
3:D:1194:CYS:HB3	3:D:1373:ARG:NH2	1.90	0.86
2:M:81:ASP:HA	8:M:9757:HOH:O	1.74	0.86
2:C:420:ARG:H	2:C:420:ARG:HD2	1.40	0.86
3:D:1026:SER:HA	8:D:2030:HOH:O	1.76	0.86
2:C:383:ARG:HB2	2:C:383:ARG:HH11	1.40	0.85
1:L:54:THR:HG23	1:L:158:ILE:HG13	1.57	0.85
2:M:20:GLU:HG3	8:M:9519:HOH:O	1.76	0.85
2:M:260:LEU:HA	2:M:291:ALA:CB	2.06	0.85
1:A:180:GLN:HE22	2:C:934:PHE:HB2	1.39	0.85
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.56	0.85
2:C:517:ARG:HH21	2:C:524:VAL:HG23	1.39	0.85
2:C:734:LEU:HD13	2:C:737:LEU:HD13	1.58	0.85
3:N:52:PRO:HG2	8:N:9939:HOH:O	1.76	0.85
3:N:422:ALA:HB1	5:P:178:ARG:NH1	1.90	0.85
2:C:492:ASP:HA	2:C:518:LYS:HB3	1.57	0.85
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.58	0.85
5:F:94:LEU:HD13	5:F:96:LEU:H	1.39	0.85
2:C:210:GLU:HG3	8:C:9693:HOH:O	1.75	0.85
2:C:260:LEU:HA	2:C:291:ALA:CB	2.06	0.85
5:P:408:LEU:O	5:P:412:GLU:HG2	1.75	0.85
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.55	0.85
2:M:170:PRO:HD2	2:M:263:ASP:HB3	1.55	0.85
4:O:39:VAL:HB	4:O:72:ARG:HD2	1.55	0.85
2:C:519:GLY:HA3	8:C:9911:HOH:O	1.77	0.85
3:D:64:LYS:HG2	8:D:9558:HOH:O	1.76	0.85
3:D:139:GLY:HA3	3:D:452:ILE:HD12	1.58	0.85
3:D:543:LEU:HD22	3:D:580:ALA:HB1	1.57	0.85
5:F:408:LEU:O	5:F:412:GLU:HG2	1.76	0.85
3:N:197:SER:HB2	3:N:205:TYR:HE1	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.59	0.85
3:N:890:VAL:HG12	3:N:926:LYS:HG2	1.57	0.85
3:D:1033:GLN:NE2	3:D:1036:ARG:HH11	1.74	0.85
4:E:51:LEU:HG	4:E:53:GLY:H	1.40	0.85
1:K:193:ASP:HA	2:M:938:LYS:HZ3	1.42	0.85
3:N:1342:GLU:H	3:N:1342:GLU:CD	1.80	0.85
3:D:834:THR:HG22	3:D:838:ARG:HE	1.39	0.84
2:M:396:ASP:HA	2:M:633:GLN:HE22	1.42	0.84
3:N:32:ILE:HD12	3:N:527:MET:HG2	1.56	0.84
2:C:100:LEU:HD21	2:C:368:THR:HA	1.57	0.84
3:D:1389:LEU:HD23	3:D:1389:LEU:H	1.43	0.84
5:P:416:ARG:NH1	5:P:419:ARG:HD2	1.92	0.84
2:C:537:LYS:HA	2:C:545:ASN:HD21	1.40	0.84
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.59	0.84
2:M:140:ILE:HG13	8:M:2237:HOH:O	1.77	0.84
2:M:1095:LEU:HA	8:M:9921:HOH:O	1.77	0.84
3:N:171:LEU:HB3	3:N:390:PRO:HA	1.59	0.84
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	1.59	0.84
3:D:865:THR:HG22	8:D:2489:HOH:O	1.75	0.84
5:F:148:LYS:O	5:F:148:LYS:HD2	1.78	0.84
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.59	0.84
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.58	0.84
2:C:904:PRO:HB2	2:C:907:ASP:O	1.78	0.84
3:D:808:THR:HB	3:D:809:PRO:HD3	1.58	0.84
1:K:222:LEU:HD12	1:L:215:VAL:HB	1.57	0.84
3:N:1389:LEU:H	3:N:1389:LEU:CD2	1.91	0.84
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.58	0.84
3:D:1097:LYS:O	3:D:1101:VAL:HG23	1.78	0.84
5:P:141:VAL:O	5:P:145:PRO:HD2	1.76	0.84
1:A:219:ARG:HH12	1:B:219:ARG:HD2	1.40	0.83
3:N:783:ARG:HB2	8:N:9557:HOH:O	1.78	0.83
3:N:836:VAL:HA	3:N:839:LEU:HD12	1.60	0.83
2:C:206:THR:HA	8:C:9693:HOH:O	1.78	0.83
3:D:219:GLU:O	3:D:370:ALA:CB	2.26	0.83
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.59	0.83
3:N:810:GLU:O	3:N:813:LEU:HG	1.78	0.83
1:B:46:SER:O	1:B:148:VAL:HB	1.78	0.83
3:D:836:VAL:HA	3:D:839:LEU:HD12	1.60	0.83
5:F:407:LYS:HB3	8:F:9529:HOH:O	1.78	0.83
2:M:1115:LEU:HB3	3:N:85:VAL:HG12	1.57	0.83
4:O:23:VAL:HG22	8:O:3627:HOH:O	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:710:ILE:HB	2:C:790:LEU:HD22	1.60	0.83
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.42	0.83
2:M:41:ASN:HA	8:M:9520:HOH:O	1.77	0.83
1:B:153:ALA:HA	1:B:156:HIS:NE2	1.94	0.83
2:C:620:LEU:HA	8:C:9571:HOH:O	1.77	0.83
3:D:561:GLY:HA3	5:F:184:ARG:NH2	1.94	0.83
5:P:411:HIS:HA	5:P:414:ARG:CG	2.09	0.83
2:C:536:PRO:HB3	2:C:906:PHE:HD1	1.41	0.83
2:C:710:ILE:HD12	2:C:790:LEU:HB2	1.61	0.83
2:M:1092:LEU:HD23	2:M:1099:VAL:HG11	1.59	0.83
3:N:149:LYS:HD3	3:N:149:LYS:H	1.43	0.83
2:C:52:PHE:HB3	8:C:9488:HOH:O	1.78	0.83
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.59	0.83
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.12	0.83
5:P:392:VAL:HG22	8:P:9742:HOH:O	1.78	0.83
2:C:443:THR:HG21	2:C:450:GLY:H	1.41	0.83
2:C:690:ILE:HB	2:C:852:ILE:HD13	1.60	0.83
3:N:170:PRO:O	3:N:391:ALA:HB3	1.79	0.83
3:N:583:ASP:OD1	3:N:604:THR:HB	1.78	0.83
5:P:369:LEU:CD1	5:P:401:GLU:HG3	2.09	0.83
2:C:89:THR:HA	2:C:129:ILE:O	1.79	0.82
3:N:45:PHE:HD1	3:N:86:ARG:HH22	1.26	0.82
1:A:86:VAL:HG12	1:A:124:ASN:HD22	1.43	0.82
3:D:36:THR:HB	8:D:9731:HOH:O	1.79	0.82
3:N:1075:HIS:HA	8:N:9591:HOH:O	1.79	0.82
2:C:170:PRO:HB3	2:C:186:VAL:HG12	1.60	0.82
2:C:1107:ASN:HB3	8:C:2039:HOH:O	1.78	0.82
1:K:18:ARG:O	1:K:207:PRO:HD3	1.79	0.82
3:N:573:MET:HE1	5:P:214:GLN:HG3	1.61	0.82
2:C:139:GLN:HB3	2:C:334:ARG:HG3	1.61	0.82
2:C:288:ARG:HB3	8:C:2156:HOH:O	1.80	0.82
3:N:391:ALA:HB1	8:N:2275:HOH:O	1.80	0.82
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.60	0.82
5:F:369:LEU:HD11	5:F:401:GLU:HG3	1.61	0.82
2:M:711:GLU:HG2	2:M:822:VAL:HG12	1.59	0.82
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.61	0.82
3:D:210:ARG:HD2	3:D:398:ALA:HB3	1.59	0.82
2:C:56:GLU:HB2	2:C:64:LEU:HD23	1.59	0.82
2:C:458:TYR:HB3	2:C:470:PRO:HG2	1.62	0.82
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.43	0.82
3:N:988:ARG:NH1	3:N:992:ILE:HD11	1.95	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:190:THR:HA	8:B:9553:HOH:O	1.78	0.82
2:C:1076:VAL:HG22	3:D:752:SER:HB3	1.59	0.82
3:D:131:LYS:HA	3:D:456:MET:HG3	1.62	0.82
2:M:715:THR:HG22	2:M:717:LEU:H	1.42	0.82
3:N:387:LEU:CB	5:P:94:LEU:HD11	2.09	0.82
5:F:364:ARG:O	5:F:368:VAL:HG23	1.79	0.82
2:C:274:ARG:H	2:C:288:ARG:HH12	1.29	0.81
2:C:412:ALA:HB3	8:C:9584:HOH:O	1.80	0.81
3:D:772:PRO:HB3	3:D:1224:VAL:HG13	1.61	0.81
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.60	0.81
5:P:132:ARG:O	5:P:136:LEU:HG	1.80	0.81
3:D:202:VAL:O	3:D:204:LEU:HG	1.80	0.81
2:M:368:THR:HB	2:M:369:PRO:HD3	1.61	0.81
2:M:478:VAL:HA	2:M:506:ASN:O	1.81	0.81
3:N:479:GLU:HG2	8:N:2227:HOH:O	1.80	0.81
1:B:169:ALA:HA	8:B:9642:HOH:O	1.78	0.81
2:C:169:GLY:HA2	2:C:263:ASP:HB3	1.60	0.81
3:D:1495:ILE:HD11	4:E:84:ARG:HG2	1.62	0.81
5:F:125:ASP:HA	8:F:9482:HOH:O	1.80	0.81
2:M:728:HIS:CE1	5:P:423:ASP:O	2.33	0.81
5:P:305:GLU:HG2	5:P:309:LYS:HE3	1.62	0.81
5:P:395:GLU:O	5:P:399:GLN:HG2	1.80	0.81
3:N:562:ALA:HB1	3:N:567:ILE:HD11	1.60	0.81
4:O:14:ASP:HA	8:O:2164:HOH:O	1.80	0.81
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.62	0.81
5:F:320:PRO:HA	8:F:9526:HOH:O	1.79	0.81
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.45	0.81
3:N:208:PRO:HB2	3:N:395:VAL:CG1	2.09	0.81
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.62	0.81
2:C:57:GLU:HG2	2:C:58:ASP:OD2	1.81	0.81
2:M:44:ILE:HD12	8:M:9899:HOH:O	1.80	0.81
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.62	0.81
3:N:782:SER:O	3:N:786:ILE:HD12	1.80	0.81
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.61	0.81
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.61	0.81
2:C:478:VAL:HA	2:C:506:ASN:O	1.80	0.81
3:D:699:VAL:N	3:D:756:GLN:HE22	1.78	0.81
3:N:139:GLY:HA3	3:N:452:ILE:HD12	1.61	0.81
2:C:1091:GLU:HG2	3:D:606:ILE:HB	1.61	0.81
3:D:422:ALA:H	3:D:427:VAL:HG11	1.45	0.81
5:F:77:THR:O	5:F:81:VAL:HG23	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:778:PHE:CZ	5:P:419:ARG:HD3	2.15	0.81
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.59	0.81
1:A:42:ARG:HG2	1:A:42:ARG:HH11	1.46	0.81
2:C:345:ARG:HB2	8:C:2085:HOH:O	1.81	0.81
2:M:207:LEU:HD13	2:M:221:LEU:HD11	1.63	0.81
2:M:874:LEU:HD11	8:N:2330:HOH:O	1.81	0.81
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.44	0.81
5:P:364:ARG:O	5:P:368:VAL:HG23	1.81	0.81
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.60	0.81
3:D:219:GLU:O	3:D:370:ALA:HB2	1.80	0.81
3:D:1442:ASN:HB3	8:D:9715:HOH:O	1.80	0.81
2:M:300:ASP:HA	8:M:9575:HOH:O	1.78	0.81
3:N:1112:CYS:HA	8:N:9585:HOH:O	1.81	0.81
2:M:1089:VAL:HG13	2:M:1099:VAL:HG23	1.60	0.80
3:N:214:GLU:HB3	3:N:390:PRO:HD2	1.64	0.80
3:N:507:ASN:HB2	8:N:9529:HOH:O	1.81	0.80
3:N:899:LEU:HD23	3:N:917:GLN:HB3	1.61	0.80
5:P:277:GLN:O	5:P:280:GLN:HB3	1.81	0.80
3:D:826:PRO:HD2	3:D:829:VAL:HG22	1.63	0.80
3:N:172:PRO:HB3	3:N:178:LEU:HB3	1.62	0.80
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.62	0.80
2:M:427:VAL:HA	8:M:9593:HOH:O	1.81	0.80
3:N:861:GLN:H	3:N:861:GLN:NE2	1.78	0.80
5:P:358:LEU:HD21	5:P:370:LYS:HZ3	1.46	0.80
2:C:204:GLN:HG2	8:C:9564:HOH:O	1.80	0.80
2:M:89:THR:HG23	2:M:129:ILE:HA	1.64	0.80
2:M:244:PRO:HD2	2:M:245:GLY:H	1.43	0.80
2:M:435:TYR:O	2:M:437:ARG:HG2	1.81	0.80
1:A:30:ARG:HH12	1:B:155:LYS:HZ1	1.30	0.80
5:P:266:GLU:HB3	8:P:9668:HOH:O	1.80	0.80
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.63	0.80
2:M:107:LEU:HG	8:M:9718:HOH:O	1.82	0.80
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.64	0.80
3:D:834:THR:HG22	3:D:838:ARG:NE	1.97	0.80
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.60	0.80
3:N:1271:LYS:CE	3:N:1334:GLN:HE22	1.93	0.80
5:P:163:LEU:HD22	5:P:174:LEU:HG	1.62	0.80
4:E:30:LEU:O	4:E:35:PHE:HA	1.81	0.80
3:N:119:SER:HB3	8:N:9542:HOH:O	1.82	0.80
8:A:9594:HOH:O	1:B:39:PRO:HB3	1.82	0.80
2:C:676:ILE:HG23	3:D:948:THR:HB	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:979:THR:HG23	2:C:981:GLU:H	1.47	0.80
3:D:12:LEU:HD23	3:D:13:ALA:H	1.47	0.80
3:D:148:GLU:HG3	8:D:9742:HOH:O	1.81	0.80
1:K:104:GLU:HG3	8:K:1171:HOH:O	1.81	0.80
3:N:132:TYR:HB3	8:N:2215:HOH:O	1.81	0.80
3:D:374:GLU:HA	8:D:9620:HOH:O	1.83	0.79
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.64	0.79
5:P:364:ARG:HB2	5:P:365:GLU:OE1	1.81	0.79
2:C:767:PRO:HB2	8:C:9776:HOH:O	1.83	0.79
3:N:616:GLN:HB2	5:P:326:ASP:CB	2.11	0.79
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.64	0.79
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.27	0.79
5:P:214:GLN:HA	5:P:217:ASN:HD22	1.46	0.79
2:C:238:LEU:HA	2:C:241:LEU:HD12	1.64	0.79
3:D:1077:ALA:HB2	8:D:9889:HOH:O	1.82	0.79
1:K:193:ASP:HA	2:M:938:LYS:NZ	1.97	0.79
2:M:260:LEU:HA	2:M:291:ALA:HB1	1.63	0.79
2:M:323:ASP:HB2	8:M:2151:HOH:O	1.82	0.79
2:M:862:PRO:HA	2:M:975:TYR:HE1	1.45	0.79
4:O:30:LEU:O	4:O:35:PHE:HA	1.83	0.79
5:P:129:GLU:HB3	5:P:142:ARG:HH22	1.48	0.79
1:B:22:GLU:HB3	8:B:9505:HOH:O	1.81	0.79
3:D:957:PRO:HG2	3:D:1007:VAL:HG12	1.64	0.79
3:D:962:GLN:HA	8:D:9754:HOH:O	1.82	0.79
2:M:721:ARG:HE	2:M:783:ARG:NH2	1.80	0.79
2:M:274:ARG:HD2	8:M:9866:HOH:O	1.81	0.79
3:N:170:PRO:HB2	8:N:9760:HOH:O	1.83	0.79
1:K:42:ARG:HG2	1:K:42:ARG:HH11	1.46	0.79
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.63	0.79
1:A:218:LEU:HD23	1:B:222:LEU:HD11	1.65	0.79
2:C:198:ARG:HH21	2:C:203:ASP:HB3	1.44	0.79
8:N:9748:HOH:O	4:O:17:TYR:HB3	1.83	0.79
3:N:639:LEU:HB2	8:N:9609:HOH:O	1.83	0.79
2:C:71:TYR:H	2:C:71:TYR:HD2	1.31	0.79
2:C:338:GLU:HB2	8:C:9884:HOH:O	1.81	0.79
2:C:511:GLU:O	2:C:526:PRO:HD3	1.82	0.79
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.65	0.79
3:D:542:ASP:O	3:D:546:ARG:HG2	1.83	0.79
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.62	0.78
2:C:627:ARG:HG3	2:C:628:PHE:H	1.48	0.78
5:F:277:GLN:HA	8:F:9625:HOH:O	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:110:GLU:HG2	2:C:369:PRO:HG3	1.65	0.78
2:C:139:GLN:HE22	2:C:415:PRO:HD2	1.48	0.78
5:F:200:LYS:HA	5:F:209:PHE:HE1	1.48	0.78
2:C:411:SER:HB2	2:C:452:ILE:HG23	1.63	0.78
5:P:278:LEU:HD13	5:P:290:GLU:HB3	1.64	0.78
2:C:19:THR:HG22	2:C:23:VAL:HG23	1.66	0.78
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.66	0.78
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.49	0.78
3:D:160:GLU:HG2	3:D:165:LYS:HD3	1.66	0.78
3:D:170:PRO:O	3:D:391:ALA:HB3	1.83	0.78
2:M:1059:ASP:HB3	8:M:9570:HOH:O	1.82	0.78
3:N:732:VAL:HA	8:N:9711:HOH:O	1.82	0.78
1:B:94:LEU:HD21	1:B:119:ASP:CB	2.11	0.78
3:D:899:LEU:HD23	3:D:917:GLN:HB3	1.63	0.78
1:L:175:ARG:HA	8:L:4017:HOH:O	1.81	0.78
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.65	0.78
3:N:36:THR:HG22	3:N:38:LYS:HG3	1.65	0.78
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.18	0.78
5:F:363:GLU:OE2	5:F:364:ARG:HG2	1.83	0.78
2:M:110:GLU:CG	2:M:369:PRO:HG3	2.13	0.78
2:M:433:THR:HA	8:M:9545:HOH:O	1.83	0.78
2:M:462:ASP:CG	2:M:463:GLU:H	1.87	0.78
2:M:775:ARG:HD2	8:M:2224:HOH:O	1.82	0.78
2:C:774:LEU:HD11	5:F:421:PHE:HE2	1.48	0.78
2:M:660:ALA:O	2:M:667:ALA:HB3	1.84	0.78
3:N:141:ILE:HD13	3:N:450:TYR:H	1.49	0.78
2:C:74:GLY:HA2	8:C:9794:HOH:O	1.82	0.78
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.63	0.78
1:L:42:ARG:HG2	1:L:42:ARG:HH11	1.49	0.78
3:N:396:VAL:HG13	3:N:447:VAL:HA	1.66	0.78
3:N:426:LYS:HB3	5:P:134:LYS:O	1.82	0.78
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.66	0.78
3:N:1157:GLY:HA3	8:N:9681:HOH:O	1.84	0.78
5:P:402:ASN:HB3	5:P:406:ARG:NH2	1.99	0.78
2:C:470:PRO:HG3	2:C:485:TYR:CE2	2.19	0.78
2:C:1094:ALA:HB1	3:D:603:LEU:HD13	1.66	0.78
3:D:85:VAL:HG23	8:D:9655:HOH:O	1.84	0.78
3:D:144:GLY:HA3	8:D:9577:HOH:O	1.84	0.78
3:D:608:SER:HB2	8:D:2144:HOH:O	1.81	0.78
5:F:92:PRO:HB3	8:F:9549:HOH:O	1.82	0.78
2:M:139:GLN:NE2	2:M:414:GLY:HA3	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:471:GLU:HB2	8:N:9762:HOH:O	1.84	0.78
4:O:40:LEU:HB2	4:O:45:ARG:HD2	1.66	0.78
5:P:416:ARG:HD3	5:P:419:ARG:CG	2.14	0.78
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	1.84	0.78
2:M:492:ASP:HB3	2:M:518:LYS:HD3	1.64	0.78
2:C:1092:LEU:HA	2:C:1095:LEU:HD12	1.65	0.77
3:D:710:ARG:HG3	3:D:711:LEU:HD23	1.66	0.77
3:N:24:GLY:HA3	3:N:49:ILE:HG12	1.66	0.77
3:D:502:PHE:CD2	3:D:509:PRO:HD3	2.19	0.77
3:D:562:ALA:HB3	8:D:2463:HOH:O	1.84	0.77
3:D:1472:ILE:O	3:D:1477:GLY:HA3	1.84	0.77
5:F:361:LEU:HD12	5:F:366:ALA:CB	2.09	0.77
2:M:492:ASP:HA	2:M:518:LYS:HB3	1.66	0.77
3:N:192:ALA:O	3:N:195:VAL:HG23	1.83	0.77
3:N:616:GLN:CB	5:P:326:ASP:HB2	2.14	0.77
5:F:141:VAL:O	5:F:145:PRO:HD2	1.84	0.77
1:L:132:LEU:HD21	1:L:138:LEU:HD22	1.66	0.77
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.67	0.77
3:N:1356:TYR:CD1	3:N:1363:LEU:HD21	2.19	0.77
3:D:1082:ALA:O	3:D:1086:LEU:HD13	1.83	0.77
3:D:1198:TYR:HA	8:D:2227:HOH:O	1.85	0.77
5:F:128:ARG:HD3	8:F:9477:HOH:O	1.82	0.77
1:L:132:LEU:HD11	1:L:138:LEU:HD13	1.66	0.77
1:B:42:ARG:HG2	1:B:42:ARG:HH11	1.47	0.77
3:D:1362:LYS:HE3	8:D:9659:HOH:O	1.84	0.77
3:N:1116:ASN:H	3:N:1116:ASN:HD22	1.32	0.77
3:N:1372:VAL:HA	3:N:1375:MET:SD	2.23	0.77
2:C:49:ARG:HB2	2:C:49:ARG:HH11	1.47	0.77
2:M:89:THR:HA	2:M:129:ILE:O	1.83	0.77
3:N:539:ASP:HB2	5:P:318:GLU:CD	2.04	0.77
3:N:561:GLY:HA2	8:N:9520:HOH:O	1.83	0.77
3:N:1116:ASN:H	3:N:1116:ASN:ND2	1.83	0.77
3:N:1173:LEU:HA	8:N:9906:HOH:O	1.83	0.77
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.66	0.77
3:N:1362:LYS:HG3	8:N:9772:HOH:O	1.83	0.77
5:P:402:ASN:HB3	5:P:406:ARG:CZ	2.15	0.77
3:N:1472:ILE:O	3:N:1477:GLY:HA3	1.83	0.77
3:D:171:LEU:HD11	8:D:2193:HOH:O	1.83	0.77
3:D:994:GLN:HB2	8:D:9576:HOH:O	1.85	0.77
3:D:1057:VAL:HG21	8:D:9564:HOH:O	1.84	0.77
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:9:ILE:HG21	2:M:499:ALA:HB1	1.67	0.77
2:M:101:ILE:HG23	2:M:107:LEU:HD22	1.66	0.77
2:M:909:ALA:HB1	2:M:914:ILE:HD11	1.67	0.77
3:N:940:THR:HG21	8:N:9579:HOH:O	1.84	0.77
3:N:1397:LYS:NZ	3:N:1432:LYS:HB3	1.99	0.77
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	2.00	0.76
2:M:220:GLY:HA3	8:M:2108:HOH:O	1.86	0.76
2:M:336:VAL:HA	2:M:339:LEU:HD12	1.67	0.76
3:N:205:TYR:HD2	3:N:393:ILE:HG12	1.49	0.76
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.67	0.76
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.20	0.76
3:D:1168:MET:HE3	3:D:1171:VAL:HB	1.68	0.76
1:A:229:GLN:HB3	8:A:9609:HOH:O	1.85	0.76
1:B:182:GLU:HA	8:B:9564:HOH:O	1.86	0.76
3:D:1243:THR:HB	3:D:1253:THR:HB	1.66	0.76
3:D:1433:SER:HB2	3:D:1457:ASP:OD2	1.84	0.76
4:O:41:GLU:CA	4:O:45:ARG:HG3	2.16	0.76
2:C:1057:SER:HB2	3:D:622:ARG:O	1.84	0.76
3:D:383:GLY:HA2	8:D:9900:HOH:O	1.84	0.76
3:D:868:TYR:HD1	3:D:869:MET:H	1.33	0.76
2:C:197:LEU:HD22	2:C:202:TYR:HD2	1.48	0.76
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.00	0.76
3:D:208:PRO:HB2	3:D:395:VAL:CG1	2.14	0.76
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	1.84	0.76
3:D:163:TYR:HB2	8:D:9658:HOH:O	1.86	0.76
2:C:568:ALA:HB1	2:C:668:LEU:HB3	1.66	0.76
3:D:131:LYS:HG2	3:D:568:ARG:HG2	1.68	0.76
3:D:537:THR:HG23	8:D:2538:HOH:O	1.86	0.76
3:D:793:THR:HA	8:D:9489:HOH:O	1.84	0.76
2:M:12:VAL:HG12	2:M:534:VAL:HG13	1.67	0.76
2:M:573:ARG:HG3	2:M:698:ASP:O	1.85	0.76
2:M:710:ILE:HG22	2:M:823:VAL:HB	1.68	0.76
3:N:1166:LEU:HD11	8:N:2033:HOH:O	1.84	0.76
1:A:189:ARG:NH2	1:B:155:LYS:HG2	2.01	0.76
2:C:260:LEU:HA	2:C:291:ALA:HB1	1.66	0.76
2:M:1001:VAL:HA	8:M:9560:HOH:O	1.86	0.76
5:P:76:SER:HB2	8:P:9639:HOH:O	1.85	0.76
2:C:269:LEU:HD23	2:C:288:ARG:HB2	1.68	0.76
2:C:660:ALA:O	2:C:667:ALA:HB3	1.85	0.76
8:C:9676:HOH:O	3:D:656:PHE:HA	1.84	0.76
3:D:1299:PHE:HB3	8:D:2129:HOH:O	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.67	0.76
3:N:1388:ARG:HG3	3:N:1389:LEU:CD2	2.16	0.76
3:D:953:ASP:HA	8:D:9507:HOH:O	1.85	0.75
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.85	0.75
1:L:101:LEU:HD22	1:L:140:MET:HE1	1.67	0.75
1:A:226:SER:O	1:A:228:PRO:HD3	1.86	0.75
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.68	0.75
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.67	0.75
1:K:226:SER:O	1:K:228:PRO:HD3	1.86	0.75
2:M:600:ASP:HB3	8:M:2091:HOH:O	1.84	0.75
3:N:1087:ARG:CZ	3:N:1238:MET:HG3	2.16	0.75
2:C:957:LYS:HD3	2:C:961:GLU:HB3	1.69	0.75
2:M:290:LEU:HD22	2:M:302:VAL:HG11	1.67	0.75
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.66	0.75
3:N:219:GLU:O	3:N:370:ALA:CB	2.34	0.75
3:N:908:LYS:HB3	3:N:1027:GLY:HA3	1.67	0.75
3:N:1314:LYS:HA	8:N:2212:HOH:O	1.85	0.75
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.67	0.75
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.68	0.75
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.68	0.75
1:L:156:HIS:HD2	1:L:157:GLY:H	1.35	0.75
2:M:183:SER:HB3	2:M:190:LYS:NZ	2.01	0.75
2:M:274:ARG:HB2	2:M:288:ARG:NH1	2.02	0.75
2:M:411:SER:HB3	8:M:2133:HOH:O	1.86	0.75
3:N:994:GLN:HE21	3:N:998:GLU:HG3	1.52	0.75
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.67	0.75
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.68	0.75
5:F:210:LEU:HA	5:F:213:ILE:HD12	1.68	0.75
5:F:277:GLN:O	5:F:280:GLN:HB3	1.87	0.75
5:F:376:ILE:HG22	5:F:377:ASP:HB2	1.68	0.75
2:M:778:PHE:CE2	5:P:419:ARG:HD3	2.21	0.75
2:C:841:ASN:HD22	2:C:843:HIS:H	1.34	0.75
3:D:812:ALA:HA	8:D:9496:HOH:O	1.85	0.75
4:E:54:LEU:HG	4:E:58:PRO:HD2	1.68	0.75
2:M:65:VAL:HG23	2:M:101:ILE:HB	1.68	0.75
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.67	0.75
3:N:44:LEU:HB3	3:N:525:ARG:NH2	2.01	0.75
3:N:119:SER:HB2	3:N:123:LEU:CB	2.16	0.75
3:D:411:THR:HG23	3:D:429:SER:HB3	1.69	0.75
3:D:646:LYS:HA	3:D:720:LEU:HD23	1.66	0.75
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.66	0.75
2:M:528:GLU:HB3	8:M:9589:HOH:O	1.85	0.75
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.50	0.75
2:C:173:ASP:HB2	8:C:2311:HOH:O	1.87	0.75
2:C:640:ARG:NH1	2:C:642:ARG:HH12	1.82	0.75
2:C:911:GLU:O	2:C:915:LYS:HG2	1.86	0.75
3:D:30:GLU:HG3	3:D:41:ARG:HG2	1.69	0.75
3:D:126:VAL:CG1	3:D:132:TYR:HB2	2.17	0.75
3:D:131:LYS:HD2	5:F:83:GLN:OE1	1.86	0.75
2:M:52:PHE:CZ	2:M:98:LEU:HD21	2.21	0.75
2:M:341:THR:HG21	8:M:9646:HOH:O	1.86	0.75
2:M:418:LEU:HB3	8:M:9802:HOH:O	1.85	0.75
2:M:423:ALA:HA	8:M:2231:HOH:O	1.86	0.75
2:M:1051:GLU:OE2	3:N:752:SER:HB3	1.86	0.75
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.86	0.75
2:C:725:ASP:O	2:C:727:PRO:HD3	1.87	0.75
3:D:800:LYS:HE2	3:D:830:ALA:HB3	1.68	0.75
2:M:148:PHE:HZ	2:M:281:LEU:HD22	1.52	0.75
2:M:511:GLU:O	2:M:526:PRO:HD3	1.84	0.75
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.86	0.75
2:C:289:THR:HG22	2:C:290:LEU:HD23	1.66	0.74
1:L:220:GLU:O	1:L:223:THR:HG22	1.87	0.74
3:N:133:ILE:HD13	8:N:9573:HOH:O	1.86	0.74
3:D:699:VAL:H	3:D:756:GLN:NE2	1.81	0.74
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.68	0.74
3:N:1258:ARG:NH2	3:N:1351:GLU:HG2	1.96	0.74
2:C:546:LEU:HD12	2:C:565:GLN:HE22	1.51	0.74
2:C:774:LEU:HD11	5:F:421:PHE:CE2	2.21	0.74
3:D:429:SER:HB2	8:D:9724:HOH:O	1.85	0.74
2:M:723:THR:HG23	2:M:725:ASP:H	1.50	0.74
3:N:128:TYR:HE1	3:N:461:ILE:HG13	1.53	0.74
3:N:800:LYS:HA	8:N:2379:HOH:O	1.87	0.74
1:A:182:GLU:CD	2:C:934:PHE:HB3	2.07	0.74
2:C:838:LYS:HD2	2:C:997:LEU:HD12	1.69	0.74
1:B:70:GLY:HA2	8:B:9650:HOH:O	1.87	0.74
2:C:195:LEU:HA	8:C:9981:HOH:O	1.88	0.74
2:C:356:ARG:HA	8:C:9554:HOH:O	1.86	0.74
3:D:657:LEU:HD22	3:D:691:LEU:HD13	1.69	0.74
2:M:147:TYR:HA	8:M:2202:HOH:O	1.87	0.74
2:M:728:HIS:O	2:M:729:LEU:HD22	1.87	0.74
4:O:74:VAL:HG12	4:O:79:LEU:HD21	1.66	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:97:VAL:HG23	8:A:9431:HOH:O	1.87	0.74
2:C:729:LEU:HD11	5:F:419:ARG:NH2	2.01	0.74
5:F:369:LEU:CD1	5:F:401:GLU:HG3	2.17	0.74
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.69	0.74
3:N:86:ARG:O	3:N:522:PRO:HD2	1.87	0.74
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.70	0.74
2:C:211:LEU:HD11	8:C:9607:HOH:O	1.87	0.74
2:C:889:HIS:CE1	3:D:951:ILE:H	2.06	0.74
3:D:984:THR:HG23	3:D:987:GLU:H	1.52	0.74
3:N:776:GLU:HG3	8:N:9518:HOH:O	1.88	0.74
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.69	0.74
2:C:480:THR:HG22	2:C:482:GLU:H	1.52	0.74
3:D:192:ALA:O	3:D:195:VAL:HG23	1.88	0.74
2:M:1101:THR:HB	3:N:5:VAL:CG1	2.15	0.74
3:N:112:ILE:HG22	3:N:512:MET:SD	2.28	0.74
3:N:469:ASP:HB3	8:N:9534:HOH:O	1.87	0.74
5:P:297:PRO:HB2	8:P:9575:HOH:O	1.87	0.74
2:C:313:LEU:HD13	2:C:321:GLU:HB2	1.68	0.74
3:D:172:PRO:HB3	3:D:178:LEU:HB3	1.69	0.74
3:D:1101:VAL:CG1	3:D:1427:SER:HB3	2.17	0.74
5:F:416:ARG:NH1	5:F:419:ARG:HB2	2.02	0.74
2:M:130:ASN:HB3	8:M:9869:HOH:O	1.88	0.74
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.16	0.74
5:P:260:ILE:HG12	5:P:264:MET:HB2	1.67	0.74
2:C:629:TYR:HB2	8:C:9559:HOH:O	1.86	0.74
5:F:371:LEU:HD11	8:F:9822:HOH:O	1.87	0.74
2:M:1025:ALA:HA	8:M:9816:HOH:O	1.87	0.74
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.17	0.74
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.16	0.74
3:N:1396:GLU:HA	3:N:1399:ASP:OD2	1.87	0.74
5:P:361:LEU:HD13	5:P:404:ALA:HB1	1.70	0.74
1:L:185:ARG:HD2	8:L:3631:HOH:O	1.88	0.73
2:M:874:LEU:HD23	3:N:1023:MET:SD	2.28	0.73
3:N:698:LYS:HA	3:N:756:GLN:NE2	2.03	0.73
5:P:395:GLU:HA	8:P:9476:HOH:O	1.87	0.73
2:C:1074:GLU:HB3	8:C:2223:HOH:O	1.87	0.73
2:M:56:GLU:HB2	2:M:64:LEU:HD23	1.69	0.73
2:M:536:PRO:HB3	2:M:906:PHE:HB2	1.70	0.73
2:M:795:GLY:O	2:M:796:GLU:HG2	1.86	0.73
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.70	0.73
5:P:410:TYR:HA	5:P:413:SER:OG	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:881:ASN:HD22	2:C:881:ASN:N	1.84	0.73
3:D:32:ILE:O	5:F:258:ILE:HG23	1.89	0.73
3:D:396:VAL:HG13	3:D:447:VAL:HA	1.70	0.73
3:D:427:VAL:HB	3:D:435:VAL:HB	1.71	0.73
3:D:1209:LEU:HD13	3:D:1216:SER:H	1.54	0.73
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.70	0.73
3:N:219:GLU:O	3:N:370:ALA:HB2	1.88	0.73
2:C:811:PRO:HD3	8:C:2192:HOH:O	1.87	0.73
3:D:544:TYR:CE1	3:D:581:LEU:HD13	2.23	0.73
3:D:1398:TRP:CZ3	3:D:1415:VAL:HG11	2.23	0.73
1:K:39:PRO:HG2	1:L:39:PRO:HG2	1.70	0.73
1:L:190:THR:HG21	8:L:5177:HOH:O	1.87	0.73
2:M:66:LEU:HD13	2:M:100:LEU:HB3	1.70	0.73
2:M:148:PHE:HB2	8:M:9596:HOH:O	1.88	0.73
3:N:101:HIS:HD2	3:N:582:LEU:HD13	1.53	0.73
3:N:563:PRO:HG2	5:P:188:ILE:HG21	1.69	0.73
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.69	0.73
1:K:94:LEU:HD21	1:K:119:ASP:HB2	1.71	0.73
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.70	0.73
3:N:216:VAL:HG13	8:N:9883:HOH:O	1.87	0.73
3:N:1353:GLN:HE21	3:N:1357:ARG:NE	1.86	0.73
5:P:119:ILE:HG13	8:P:9609:HOH:O	1.86	0.73
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.08	0.73
1:A:198:ARG:HH22	2:C:932:GLU:HB3	1.54	0.73
2:C:110:GLU:CG	2:C:369:PRO:HG3	2.18	0.73
2:C:762:LYS:HB2	2:C:762:LYS:NZ	2.01	0.73
2:C:1030:GLN:HE22	3:D:628:ARG:HE	1.35	0.73
3:D:789:LEU:HD12	3:D:911:LEU:HD21	1.69	0.73
3:D:1380:GLU:OE2	3:D:1390:LEU:HD22	1.88	0.73
1:L:27:PRO:HB3	1:L:192:LEU:HD13	1.70	0.73
1:L:101:LEU:HB3	1:L:140:MET:SD	2.28	0.73
2:M:418:LEU:HB2	8:M:9616:HOH:O	1.88	0.73
3:N:101:HIS:CD2	3:N:582:LEU:HD13	2.23	0.73
3:N:897:TRP:CZ2	3:N:902:LEU:HD21	2.23	0.73
5:P:82:ARG:O	5:P:86:HIS:HB2	1.88	0.73
1:A:67:THR:HG21	2:C:609:ASN:ND2	2.04	0.73
1:A:88:ARG:HG3	1:A:204:SER:O	1.88	0.73
2:M:660:ALA:HB1	2:M:667:ALA:O	1.89	0.73
2:M:1053:LEU:HA	8:M:9509:HOH:O	1.87	0.73
3:N:573:MET:SD	5:P:210:LEU:HB3	2.29	0.73
2:C:250:ARG:NE	2:C:253:ALA:HB1	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:748:GLU:HA	2:C:799:ILE:HG22	1.70	0.73
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.01	0.73
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.69	0.73
5:F:357:ALA:HB2	5:F:412:GLU:OE2	1.88	0.73
2:M:250:ARG:HG3	8:M:2200:HOH:O	1.87	0.73
2:M:405:ARG:NH2	2:M:409:ARG:HH21	1.86	0.73
3:N:177:ALA:HB1	3:N:199:LEU:HD13	1.70	0.73
1:A:206:THR:HG22	1:A:209:GLU:H	1.54	0.73
2:C:500:ASN:HB3	8:C:9512:HOH:O	1.89	0.73
2:C:943:VAL:HG22	2:C:985:GLY:H	1.53	0.73
2:C:1040:LEU:HD21	2:C:1048:THR:HG22	1.71	0.73
3:D:1003:VAL:O	3:D:1007:VAL:HG13	1.89	0.73
1:K:86:VAL:HG12	1:K:124:ASN:ND2	2.04	0.73
1:A:54:THR:HG23	1:A:158:ILE:HG13	1.70	0.73
2:C:1028:GLY:HA2	8:C:2253:HOH:O	1.88	0.73
8:C:2215:HOH:O	3:D:1047:LYS:HE2	1.89	0.73
5:F:140:ARG:HG3	5:F:141:VAL:H	1.53	0.73
5:F:205:ARG:HD2	5:F:251:ILE:HG21	1.71	0.73
1:L:95:GLN:HG3	8:L:1866:HOH:O	1.89	0.73
2:M:84:ARG:HD2	8:M:9757:HOH:O	1.89	0.73
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.70	0.73
3:N:496:LEU:HB3	8:N:9704:HOH:O	1.89	0.72
5:P:401:GLU:O	5:P:405:LEU:HB2	1.89	0.72
2:C:266:ARG:HH11	2:C:266:ARG:HG3	1.54	0.72
3:D:68:PHE:HB2	8:D:9549:HOH:O	1.90	0.72
5:F:292:ALA:HB2	8:F:9565:HOH:O	1.89	0.72
5:F:408:LEU:HD23	5:F:409:LYS:N	2.04	0.72
2:M:470:PRO:HG3	2:M:485:TYR:CZ	2.24	0.72
5:P:358:LEU:HD21	5:P:370:LYS:NZ	2.03	0.72
2:C:241:LEU:HD11	8:C:9948:HOH:O	1.89	0.72
5:F:200:LYS:HA	5:F:209:PHE:CE1	2.24	0.72
2:M:262:ALA:HB2	8:M:2129:HOH:O	1.90	0.72
3:N:800:LYS:HE2	3:N:830:ALA:HB3	1.71	0.72
3:N:1144:LEU:HB3	8:N:2033:HOH:O	1.89	0.72
2:C:710:ILE:HD11	2:C:758:ARG:HE	1.55	0.72
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.72	0.72
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.24	0.72
8:K:2135:HOH:O	1:L:10:VAL:HG13	1.89	0.72
2:M:170:PRO:HB3	2:M:186:VAL:HG12	1.70	0.72
3:N:826:PRO:HD2	3:N:829:VAL:HG22	1.70	0.72
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:361:LEU:HD13	5:F:404:ALA:HB1	1.69	0.72
5:F:419:ARG:C	5:F:419:ARG:HG3	2.09	0.72
2:M:314:THR:HG23	8:M:9735:HOH:O	1.90	0.72
3:N:126:VAL:HG11	3:N:152:LEU:CD1	2.20	0.72
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.53	0.72
5:P:416:ARG:HH11	5:P:419:ARG:CD	2.03	0.72
3:D:471:GLU:HB3	8:D:9613:HOH:O	1.90	0.72
3:D:796:ARG:HD3	3:D:862:ASP:OD2	1.89	0.72
3:D:810:GLU:O	3:D:813:LEU:HG	1.89	0.72
2:M:205:GLU:O	2:M:209:ARG:HD2	1.89	0.72
5:P:84:TYR:O	5:P:88:ILE:HD12	1.90	0.72
2:C:368:THR:HB	2:C:369:PRO:CD	2.18	0.72
2:C:660:ALA:HB1	2:C:667:ALA:O	1.90	0.72
3:D:172:PRO:HD2	3:D:389:GLU:O	1.90	0.72
3:D:683:ILE:HG22	3:D:687:VAL:HG21	1.72	0.72
3:D:798:GLU:HG2	3:D:799:LYS:H	1.55	0.72
2:M:269:LEU:HA	2:M:288:ARG:NE	2.02	0.72
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.72	0.72
1:B:23:PHE:HE1	1:B:208:LEU:HD13	1.53	0.72
3:D:430:ASP:HB2	3:D:432:TYR:CE2	2.25	0.72
5:F:82:ARG:O	5:F:86:HIS:HB2	1.89	0.72
3:N:1269:LYS:HE2	3:N:1269:LYS:HA	1.71	0.72
1:A:94:LEU:HD21	1:A:119:ASP:CB	2.14	0.72
2:M:10:ARG:HD2	8:M:9719:HOH:O	1.88	0.72
2:M:145:GLY:HA3	2:M:276:LYS:HD2	1.70	0.72
2:M:250:ARG:NH2	2:M:253:ALA:HB1	2.05	0.72
2:M:266:ARG:HD2	8:M:9502:HOH:O	1.90	0.72
2:M:490:GLU:HA	2:M:493:ARG:HD2	1.71	0.72
2:M:1110:ASP:HA	8:M:9592:HOH:O	1.90	0.72
2:C:690:ILE:HG21	2:C:833:LEU:HD21	1.72	0.71
3:D:218:LYS:CB	3:D:373:PRO:HA	2.20	0.71
2:M:727:PRO:HG2	2:M:785:VAL:HG12	1.70	0.71
2:C:829:GLN:NE2	2:C:831:ARG:HD3	2.04	0.71
2:C:1054:THR:HG23	2:C:1059:ASP:HB2	1.71	0.71
4:E:40:LEU:HB2	4:E:45:ARG:CD	2.20	0.71
1:K:206:THR:HG22	1:K:209:GLU:HG3	1.72	0.71
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.72	0.71
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.72	0.71
3:N:808:THR:HB	3:N:809:PRO:HD3	1.70	0.71
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.89	0.71
5:P:350:LEU:CD1	5:P:422:LEU:HB3	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:368:VAL:O	5:P:372:ARG:HB2	1.90	0.71
2:C:386:PHE:HA	8:C:9659:HOH:O	1.89	0.71
1:K:110:LYS:HD3	8:K:2970:HOH:O	1.90	0.71
2:M:264:PRO:HB3	2:M:289:THR:HG21	1.70	0.71
2:M:943:VAL:HG13	2:M:985:GLY:H	1.56	0.71
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.91	0.71
5:P:94:LEU:HD13	5:P:96:LEU:N	2.05	0.71
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.71	0.71
2:C:971:LYS:HA	2:C:988:VAL:HA	1.72	0.71
3:N:1440:PHE:HB2	3:N:1442:ASN:HD21	1.56	0.71
2:C:442:GLU:HB3	8:C:9551:HOH:O	1.88	0.71
2:C:477:GLY:HA3	8:C:9519:HOH:O	1.90	0.71
2:M:14:PRO:HA	8:M:9924:HOH:O	1.89	0.71
3:N:1459:LEU:HD11	3:N:1468:LEU:HD13	1.73	0.71
2:C:53:PRO:HB3	8:C:2065:HOH:O	1.91	0.71
2:C:328:LEU:HD13	2:C:433:THR:HB	1.71	0.71
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.72	0.71
5:F:393:THR:HG22	5:F:394:ARG:N	2.06	0.71
1:K:34:VAL:HG22	1:K:181:VAL:HG21	1.73	0.71
3:N:1258:ARG:HH21	3:N:1351:GLU:CG	1.99	0.71
1:A:65:PHE:HE1	2:C:799:ILE:HD11	1.55	0.71
2:C:1109:VAL:HG11	3:D:5:VAL:HG13	1.72	0.71
3:D:119:SER:HB2	3:D:123:LEU:N	2.05	0.71
3:D:1398:TRP:CH2	3:D:1415:VAL:HG11	2.26	0.71
5:F:347:GLN:HB3	8:F:9613:HOH:O	1.90	0.71
2:M:204:GLN:CD	2:M:222:MET:HB3	2.11	0.71
3:N:1109:GLU:HG2	3:N:1202:GLN:N	2.06	0.71
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.06	0.71
2:C:876:VAL:H	2:C:877:PRO:HD2	1.54	0.71
1:K:143:ARG:HH11	1:K:143:ARG:CG	2.02	0.71
2:M:21:ILE:HG22	8:M:9955:HOH:O	1.90	0.71
3:N:902:LEU:HA	8:N:9832:HOH:O	1.90	0.71
5:P:161:GLN:HG2	8:P:9608:HOH:O	1.89	0.71
5:P:205:ARG:HG3	5:P:251:ILE:HD13	1.72	0.71
5:P:413:SER:CB	5:P:419:ARG:HH21	2.02	0.71
3:D:152:LEU:HD23	3:D:152:LEU:H	1.56	0.71
4:E:40:LEU:HD21	4:E:67:GLU:HA	1.73	0.71
5:F:164:LYS:HA	5:F:171:LYS:NZ	2.06	0.71
2:M:260:LEU:CA	2:M:291:ALA:HB1	2.19	0.71
3:N:145:VAL:HG13	3:N:146:PRO:HD2	1.72	0.71
1:A:39:PRO:HG2	1:B:39:PRO:HG2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:676:MET:HG3	8:D:9511:HOH:O	1.89	0.70
3:D:742:GLY:HA3	8:D:2298:HOH:O	1.90	0.70
5:F:358:LEU:HD11	5:F:370:LYS:CD	2.16	0.70
3:N:1320:GLU:HB3	8:N:9773:HOH:O	1.91	0.70
5:P:129:GLU:HB3	5:P:142:ARG:NH2	2.06	0.70
2:C:198:ARG:NH2	2:C:203:ASP:HB3	2.05	0.70
2:C:929:ARG:HG3	8:C:9628:HOH:O	1.91	0.70
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.73	0.70
3:N:806:PHE:HA	8:N:9498:HOH:O	1.91	0.70
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.05	0.70
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.72	0.70
3:D:879:ARG:HG2	8:D:9489:HOH:O	1.89	0.70
3:D:924:MET:HG2	8:D:9757:HOH:O	1.90	0.70
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.26	0.70
3:N:728:LEU:HD22	3:N:745:MET:SD	2.31	0.70
3:N:955:VAL:O	3:N:1039:CYS:HB3	1.90	0.70
3:N:1465:ASN:ND2	3:N:1473:PRO:HG3	2.06	0.70
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.72	0.70
1:K:127:LEU:HD12	1:K:128:HIS:N	2.07	0.70
2:M:1056:LYS:O	3:N:624:ASP:HB2	1.92	0.70
1:B:78:ILE:HA	8:B:9519:HOH:O	1.91	0.70
3:D:102:ILE:HD12	3:D:579:ASP:HB3	1.73	0.70
4:E:25:LYS:HA	4:E:28:GLN:CD	2.10	0.70
2:M:874:LEU:HD21	3:N:787:LEU:HD22	1.72	0.70
3:N:1209:LEU:CD1	3:N:1216:SER:H	2.03	0.70
1:A:14:ARG:HB3	8:A:9617:HOH:O	1.92	0.70
2:C:139:GLN:O	2:C:333:ILE:HA	1.90	0.70
2:C:475:VAL:HA	8:C:2211:HOH:O	1.91	0.70
2:C:1018:GLN:HG3	2:C:1083:GLU:HG3	1.74	0.70
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.72	0.70
3:D:474:GLU:HA	8:D:9706:HOH:O	1.91	0.70
5:F:92:PRO:HG2	8:F:9678:HOH:O	1.91	0.70
3:N:491:LYS:HE3	8:N:2434:HOH:O	1.91	0.70
3:N:1348:LEU:HG	3:N:1375:MET:HE1	1.74	0.70
5:P:408:LEU:HD23	5:P:409:LYS:N	2.07	0.70
3:D:18:ILE:HD12	3:D:518:PRO:HG3	1.72	0.70
1:K:67:THR:HG22	8:K:913:HOH:O	1.91	0.70
2:M:123:GLU:HA	8:M:9669:HOH:O	1.91	0.70
3:N:508:ARG:HG2	3:N:509:PRO:HD2	1.73	0.70
3:N:777:PRO:HG2	3:N:915:VAL:HB	1.72	0.70
3:N:1490:LYS:NZ	4:O:39:VAL:HA	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:254:VAL:O	2:C:257:VAL:HG23	1.91	0.70
1:L:80:LEU:HB3	8:N:9812:HOH:O	1.91	0.70
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.74	0.70
2:M:904:PRO:HB2	2:M:907:ASP:O	1.91	0.70
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.22	0.70
2:C:588:VAL:HB	8:C:9533:HOH:O	1.92	0.70
3:D:379:ALA:HB3	8:D:2234:HOH:O	1.91	0.70
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.73	0.70
5:F:137:GLY:HA3	5:F:140:ARG:HH12	1.56	0.70
5:F:207:LEU:HB3	5:F:212:LEU:HG	1.73	0.70
1:L:137:ARG:HG2	1:L:137:ARG:HH11	1.57	0.70
5:P:371:LEU:HD22	5:P:375:LEU:CD1	2.22	0.70
2:C:11:GLU:HG2	2:C:537:LYS:NZ	2.07	0.70
2:C:73:LEU:HB3	2:C:93:PRO:O	1.91	0.70
2:C:91:GLN:OE1	2:C:117:HIS:HB3	1.92	0.70
2:C:391:LEU:HA	8:C:9691:HOH:O	1.92	0.70
2:C:881:ASN:HD22	2:C:881:ASN:H	1.38	0.70
2:M:1014:SER:HB3	2:M:1017:THR:O	1.92	0.70
3:N:30:GLU:HG3	3:N:41:ARG:HE	1.57	0.70
3:N:477:LEU:HD22	3:N:492:ALA:HB1	1.72	0.70
3:N:490:ALA:HA	8:N:9506:HOH:O	1.92	0.70
3:N:675:ARG:O	3:N:678:GLU:HG2	1.92	0.70
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.27	0.69
2:C:34:VAL:HG12	8:C:9992:HOH:O	1.92	0.69
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.27	0.69
2:C:428:ARG:HH21	2:C:451:LEU:HD11	1.56	0.69
3:D:1299:PHE:HB2	8:D:2268:HOH:O	1.92	0.69
1:K:34:VAL:HG21	2:M:939:ARG:NH2	2.07	0.69
2:M:563:ASN:HB3	8:M:2167:HOH:O	1.90	0.69
2:M:729:LEU:HD11	8:P:9571:HOH:O	1.92	0.69
2:M:829:GLN:HB2	8:M:9535:HOH:O	1.90	0.69
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.27	0.69
5:P:162:LYS:HG3	8:P:9778:HOH:O	1.92	0.69
5:P:366:ALA:O	5:P:370:LYS:HB3	1.92	0.69
2:C:260:LEU:CA	2:C:291:ALA:HB1	2.22	0.69
2:C:266:ARG:H	2:C:266:ARG:HD2	1.57	0.69
2:C:454:SER:HB3	8:C:9803:HOH:O	1.91	0.69
3:D:171:LEU:HB3	3:D:390:PRO:HA	1.72	0.69
3:D:196:VAL:HG13	3:D:202:VAL:HG11	1.72	0.69
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.55	0.69
2:M:580:MET:O	2:M:903:SER:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:832:LYS:HB2	8:M:2063:HOH:O	1.92	0.69
2:M:1111:ILE:HG13	2:M:1112:PHE:H	1.54	0.69
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.21	0.69
3:N:1061:PHE:HA	8:N:9640:HOH:O	1.90	0.69
5:P:348:SER:HA	8:P:9549:HOH:O	1.91	0.69
2:C:1101:THR:HG22	3:D:8:VAL:HG22	1.74	0.69
2:C:1115:LEU:HD23	3:D:85:VAL:HA	1.74	0.69
3:D:168:THR:HB	3:D:393:ILE:HG13	1.75	0.69
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.74	0.69
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.73	0.69
2:M:768:THR:HB	2:M:771:GLU:HB3	1.75	0.69
3:N:55:ASP:HB3	3:N:82:LYS:HE2	1.74	0.69
3:N:1045:MET:HE3	8:N:9780:HOH:O	1.90	0.69
3:D:35:ARG:HD2	8:D:9736:HOH:O	1.92	0.69
5:F:371:LEU:HD22	5:F:375:LEU:CD1	2.22	0.69
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.74	0.69
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.07	0.69
2:M:461:VAL:CG1	2:M:465:GLY:HA2	2.22	0.69
2:M:580:MET:HB3	2:M:584:GLU:CD	2.13	0.69
3:N:18:ILE:HG21	3:N:516:ALA:O	1.92	0.69
5:P:87:GLU:O	5:P:91:VAL:HG23	1.92	0.69
2:C:341:THR:HG23	2:C:345:ARG:NH2	2.08	0.69
2:C:557:ARG:NH1	2:C:879:ARG:HG2	2.07	0.69
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.73	0.69
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.72	0.69
3:D:459:GLU:HB3	8:D:2363:HOH:O	1.92	0.69
3:D:1410:GLU:HG3	8:D:2074:HOH:O	1.92	0.69
2:M:848:VAL:HB	3:N:740:PHE:O	1.91	0.69
3:N:177:ALA:CB	3:N:199:LEU:HD22	2.21	0.69
3:N:624:ASP:N	8:N:2406:HOH:O	2.25	0.69
2:C:42:VAL:HG12	2:C:43:GLY:H	1.58	0.69
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.22	0.69
3:D:1307:LYS:HE3	8:D:2368:HOH:O	1.91	0.69
1:L:22:GLU:HG2	1:L:198:ARG:HG2	1.74	0.69
3:N:50:PHE:HB3	3:N:522:PRO:HG2	1.75	0.69
3:N:1262:LEU:HD23	3:N:1352:ILE:HG13	1.74	0.69
4:O:94:PRO:HA	8:O:893:HOH:O	1.93	0.69
1:B:23:PHE:CE1	1:B:208:LEU:HD13	2.27	0.69
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.74	0.69
2:C:676:ILE:CG2	2:C:988:VAL:HG13	2.23	0.69
1:K:94:LEU:HD21	1:K:119:ASP:CB	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K:4458:HOH:O	1:L:11:PHE:HB2	1.93	0.69
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.28	0.69
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.74	0.69
2:C:149:THR:HB	8:C:9648:HOH:O	1.91	0.69
2:C:1054:THR:HG21	2:C:1079:PRO:CB	2.22	0.69
3:D:148:GLU:HB3	3:D:151:GLN:CB	2.20	0.69
3:D:897:TRP:CZ2	3:D:902:LEU:HD21	2.28	0.69
5:F:330:GLY:HA2	5:F:333:ILE:HD12	1.75	0.69
1:K:59:GLU:HG3	1:K:60:ASP:H	1.57	0.69
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.75	0.69
1:L:59:GLU:HG3	1:L:60:ASP:H	1.57	0.69
2:M:570:PRO:HA	8:M:9977:HOH:O	1.91	0.69
2:M:930:LYS:HA	8:M:2157:HOH:O	1.91	0.69
3:N:128:TYR:CE1	3:N:461:ILE:HG13	2.27	0.69
3:N:984:THR:HG23	3:N:987:GLU:H	1.58	0.69
3:N:997:THR:HG23	8:N:9593:HOH:O	1.93	0.69
2:C:283:ILE:HG22	2:C:284:ARG:HG3	1.75	0.69
3:D:474:GLU:O	3:D:478:LEU:HG	1.92	0.69
5:F:209:PHE:O	5:F:213:ILE:HG13	1.93	0.69
2:M:1105:LYS:HD2	8:M:9576:HOH:O	1.92	0.69
3:N:52:PRO:HG3	3:N:80:VAL:HG23	1.75	0.69
3:N:125:GLN:HG2	8:N:9888:HOH:O	1.93	0.69
3:N:171:LEU:HD23	3:N:390:PRO:HG3	1.75	0.69
3:N:404:GLU:OE1	3:N:414:ARG:HD3	1.92	0.69
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.23	0.69
3:N:1264:GLU:O	3:N:1266:ARG:HG3	1.92	0.69
3:N:1327:ARG:HB3	8:N:9839:HOH:O	1.93	0.69
5:P:351:SER:O	5:P:355:GLU:HB2	1.92	0.69
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.57	0.69
1:B:176:ARG:HH22	3:D:884:ARG:NE	1.90	0.69
2:C:575:GLN:H	2:C:667:ALA:HB1	1.58	0.69
2:C:1094:ALA:HB3	3:D:603:LEU:HD22	1.75	0.69
3:D:432:TYR:HD2	8:D:9724:HOH:O	1.76	0.69
4:E:82:GLU:H	4:E:82:GLU:CD	1.95	0.69
5:F:273:ARG:HA	5:F:276:ARG:HG3	1.76	0.69
2:M:553:ASP:HA	2:M:881:ASN:HA	1.74	0.69
3:N:96:ALA:HB1	3:N:554:LEU:HD12	1.73	0.69
3:N:149:LYS:H	3:N:149:LYS:CD	2.01	0.69
3:N:218:LYS:CB	3:N:373:PRO:HA	2.23	0.69
3:N:496:LEU:HD23	3:N:500:ARG:HG3	1.75	0.69
3:N:1311:LEU:HD23	3:N:1311:LEU:H	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.74	0.68
2:C:490:GLU:HB3	8:C:9678:HOH:O	1.92	0.68
2:C:730:SER:O	2:C:734:LEU:HD23	1.92	0.68
8:C:9511:HOH:O	3:D:13:ALA:HA	1.92	0.68
3:D:223:LEU:HA	8:D:9492:HOH:O	1.93	0.68
3:D:702:LEU:HD23	3:D:745:MET:CE	2.22	0.68
5:F:93:LEU:HG	5:F:190:ALA:CB	2.22	0.68
1:K:95:GLN:HG3	8:K:802:HOH:O	1.92	0.68
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	1.58	0.68
2:M:783:ARG:O	2:M:785:VAL:N	2.26	0.68
5:P:316:SER:OG	5:P:318:GLU:HG3	1.93	0.68
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.27	0.68
1:B:5:LYS:O	1:B:8:ALA:HB2	1.92	0.68
1:B:59:GLU:HG3	1:B:60:ASP:H	1.58	0.68
2:C:283:ILE:HG21	8:C:9739:HOH:O	1.93	0.68
2:C:292:ARG:NH1	2:C:299:LYS:HD3	2.09	0.68
3:D:1009:LYS:O	3:D:1013:GLU:HG2	1.93	0.68
3:D:1162:GLU:HB2	8:D:9602:HOH:O	1.92	0.68
3:D:1218:GLY:HA2	8:D:9761:HOH:O	1.93	0.68
1:K:5:LYS:O	1:K:8:ALA:HB2	1.93	0.68
3:N:1036:ARG:HH21	3:N:1042:ARG:HA	1.58	0.68
4:O:41:GLU:HB3	8:O:3641:HOH:O	1.94	0.68
5:P:232:ARG:HG2	8:P:9663:HOH:O	1.93	0.68
5:P:413:SER:HA	5:P:419:ARG:NE	2.07	0.68
1:B:90:LEU:HD12	8:B:9478:HOH:O	1.94	0.68
1:B:191:ASP:HB2	8:B:9576:HOH:O	1.93	0.68
2:C:69:LEU:HD12	2:C:97:ARG:HB3	1.76	0.68
2:C:760:SER:O	2:C:785:VAL:HG22	1.93	0.68
2:C:876:VAL:HG22	2:C:884:GLN:NE2	2.08	0.68
3:D:55:ASP:HA	3:D:82:LYS:HG2	1.74	0.68
5:F:118:GLU:HB3	8:F:9490:HOH:O	1.92	0.68
1:K:139:ASN:HB2	8:K:845:HOH:O	1.92	0.68
2:M:725:ASP:O	2:M:727:PRO:HD3	1.92	0.68
2:C:728:HIS:O	2:C:729:LEU:HD22	1.93	0.68
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.74	0.68
1:L:106:PRO:HB2	8:L:1100:HOH:O	1.92	0.68
2:M:231:PRO:HA	8:M:9534:HOH:O	1.93	0.68
3:N:135:LEU:HD11	3:N:452:ILE:HD11	1.75	0.68
3:N:660:LYS:HD3	8:N:9491:HOH:O	1.91	0.68
2:C:31:GLN:OE1	2:C:40:GLU:HB2	1.93	0.68
3:D:443:VAL:HG21	8:D:9877:HOH:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:550:ARG:HD3	8:D:9518:HOH:O	1.93	0.68
3:D:863:VAL:HG23	8:D:9469:HOH:O	1.93	0.68
3:D:1312:LEU:HD12	3:D:1326:THR:O	1.93	0.68
3:D:1327:ARG:HD2	8:D:9883:HOH:O	1.91	0.68
3:D:1412:LYS:HD2	3:D:1414:PRO:HG3	1.74	0.68
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.76	0.68
2:M:250:ARG:HB3	2:M:253:ALA:CB	2.24	0.68
3:N:824:ASN:HB2	8:N:9847:HOH:O	1.93	0.68
3:N:861:GLN:HE21	3:N:861:GLN:N	1.79	0.68
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.75	0.68
5:P:169:GLU:H	5:P:169:GLU:CD	1.96	0.68
1:A:86:VAL:HG12	1:A:124:ASN:ND2	2.08	0.68
2:C:906:PHE:CD1	3:D:1067:VAL:HG22	2.29	0.68
3:D:235:ALA:HA	8:D:9481:HOH:O	1.93	0.68
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.74	0.68
5:F:401:GLU:O	5:F:405:LEU:HB2	1.92	0.68
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.74	0.68
3:N:1397:LYS:HZ1	3:N:1432:LYS:HB3	1.55	0.68
2:C:12:VAL:HG12	8:C:2224:HOH:O	1.94	0.68
3:D:149:LYS:H	3:D:149:LYS:CD	2.06	0.68
3:D:1336:LEU:HD22	3:D:1421:LEU:HB2	1.76	0.68
4:E:74:VAL:HG12	4:E:79:LEU:HD21	1.75	0.68
1:K:227:ASN:HD22	1:K:227:ASN:H	1.39	0.68
1:L:94:LEU:HD21	1:L:119:ASP:CB	2.09	0.68
1:L:137:ARG:HH12	1:L:139:ASN:CB	2.07	0.68
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.76	0.68
2:C:264:PRO:HB3	2:C:289:THR:CG2	2.24	0.68
2:C:326:ASP:HB2	8:C:9825:HOH:O	1.92	0.68
2:C:432:ARG:HG3	8:C:9911:HOH:O	1.93	0.68
2:C:589:ARG:HD3	2:C:596:TYR:CE1	2.29	0.68
2:C:694:LEU:HD23	2:C:697:ARG:HH21	1.58	0.68
2:M:73:LEU:CD2	2:M:94:LEU:HB2	2.24	0.68
3:N:1422:MET:CE	3:N:1427:SER:HA	2.23	0.68
5:P:148:LYS:HD2	8:P:9482:HOH:O	1.92	0.68
2:C:65:VAL:O	2:C:101:ILE:HG12	1.93	0.68
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.76	0.68
2:C:952:LEU:HD12	2:C:969:GLN:HE22	1.58	0.68
3:D:33:ASN:HB2	3:D:40:GLU:OE1	1.93	0.68
3:D:422:ALA:HB1	5:F:178:ARG:HH12	1.59	0.68
1:L:151:VAL:HB	1:L:169:ALA:HB3	1.74	0.68
1:L:206:THR:HG22	1:L:209:GLU:H	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:386:HIS:O	5:P:96:LEU:HD12	1.94	0.68
3:N:795:VAL:HG23	3:N:879:ARG:NH2	2.09	0.68
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.76	0.68
2:C:889:HIS:HE1	3:D:951:ILE:H	1.38	0.68
3:D:417:PRO:HB2	8:D:9534:HOH:O	1.92	0.68
1:K:98:THR:HG21	8:K:2063:HOH:O	1.93	0.68
3:N:908:LYS:HG2	8:N:9858:HOH:O	1.94	0.68
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.76	0.68
1:B:123:MET:C	1:B:125:PRO:HD3	2.14	0.67
2:C:691:SER:HB2	2:C:858:MET:SD	2.34	0.67
2:C:734:LEU:HA	2:C:737:LEU:HD12	1.76	0.67
4:E:23:VAL:HG21	4:E:65:MET:HG2	1.76	0.67
2:M:135:VAL:HB	2:M:406:HIS:CE1	2.29	0.67
2:M:198:ARG:HG2	8:M:9515:HOH:O	1.93	0.67
2:M:950:LEU:HB3	2:M:952:LEU:HD23	1.77	0.67
3:N:1083:ASP:O	3:N:1087:ARG:HG2	1.93	0.67
5:P:234:LYS:HE3	5:P:236:SER:HB2	1.74	0.67
1:B:11:PHE:HD1	1:B:25:LEU:HD12	1.58	0.67
1:B:195:LEU:HD12	1:B:196:THR:N	2.08	0.67
2:C:342:ASP:HA	2:C:345:ARG:HE	1.59	0.67
2:C:1005:MET:SD	3:D:648:MET:HB2	2.34	0.67
2:C:1081:VAL:HB	2:C:1086:ARG:HH21	1.59	0.67
2:C:1095:LEU:HA	3:D:582:LEU:HD22	1.73	0.67
3:D:133:ILE:HD12	8:D:2265:HOH:O	1.94	0.67
3:D:1162:GLU:HB3	8:D:2357:HOH:O	1.93	0.67
2:M:484:VAL:HG22	8:M:9670:HOH:O	1.94	0.67
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.24	0.67
3:N:558:LEU:HB3	5:P:145:PRO:HB3	1.75	0.67
3:N:861:GLN:HA	8:N:9914:HOH:O	1.94	0.67
4:O:51:LEU:HD12	4:O:52:GLU:H	1.57	0.67
3:D:775:GLY:HA3	3:D:1145:TYR:CE1	2.29	0.67
3:D:818:ARG:HA	8:D:2054:HOH:O	1.94	0.67
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.75	0.67
1:A:93:SER:HB3	8:A:9454:HOH:O	1.95	0.67
1:B:39:PRO:O	1:B:43:ILE:HG12	1.94	0.67
2:C:64:LEU:HD11	8:C:9904:HOH:O	1.94	0.67
2:C:221:LEU:HG	8:C:9564:HOH:O	1.94	0.67
2:C:571:LEU:HD23	2:C:700:TYR:HA	1.75	0.67
3:D:149:LYS:H	3:D:149:LYS:HE2	1.59	0.67
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.76	0.67
3:D:1452:ILE:HD12	8:D:9532:HOH:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:356:LYS:HG2	8:F:9639:HOH:O	1.95	0.67
1:K:11:PHE:HB3	8:L:679:HOH:O	1.95	0.67
2:M:568:ALA:HB3	2:M:668:LEU:HD22	1.75	0.67
1:A:227:ASN:H	1:A:227:ASN:HD22	1.40	0.67
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.76	0.67
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.76	0.67
3:D:154:THR:HG22	3:D:156:GLU:H	1.60	0.67
5:F:419:ARG:CG	5:F:419:ARG:C	2.62	0.67
1:L:73:GLU:OE1	1:L:130:ALA:HA	1.95	0.67
2:M:655:LEU:HD11	8:M:9608:HOH:O	1.94	0.67
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.25	0.67
1:A:110:LYS:HE2	8:A:9467:HOH:O	1.93	0.67
1:B:176:ARG:HH22	3:D:884:ARG:HD3	1.60	0.67
2:C:185:LYS:HD2	8:C:9927:HOH:O	1.93	0.67
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.60	0.67
2:C:1021:LEU:HG	2:C:1022:GLY:N	2.07	0.67
2:C:1074:GLU:HG2	2:C:1075:ASP:N	2.10	0.67
3:D:93:ILE:HG12	3:D:548:ILE:HD11	1.77	0.67
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.24	0.67
3:D:756:GLN:O	3:D:760:ARG:HG2	1.95	0.67
2:M:148:PHE:CZ	2:M:281:LEU:HD22	2.29	0.67
2:M:1004:LYS:HE2	2:M:1027:PHE:CZ	2.29	0.67
5:P:291:ILE:CG2	5:P:304:VAL:HG21	2.24	0.67
1:A:59:GLU:HG3	1:A:60:ASP:H	1.59	0.67
1:A:123:MET:C	1:A:125:PRO:HD3	2.14	0.67
1:B:172:SER:HB2	8:B:9529:HOH:O	1.94	0.67
1:B:176:ARG:HH22	3:D:884:ARG:CD	2.08	0.67
3:D:1459:LEU:HB3	3:D:1465:ASN:HD22	1.59	0.67
2:M:1054:THR:HG21	2:M:1079:PRO:CB	2.23	0.67
3:N:785:ILE:HG22	3:N:789:LEU:HD12	1.76	0.67
3:N:1295:GLU:HB3	3:N:1300:SER:OG	1.94	0.67
3:N:1389:LEU:HD23	3:N:1389:LEU:N	2.06	0.67
5:P:214:GLN:HA	5:P:217:ASN:ND2	2.09	0.67
1:B:133:GLU:HG3	1:B:134:GLU:N	2.09	0.67
2:C:66:LEU:HD13	2:C:100:LEU:HB3	1.76	0.67
2:C:256:TYR:HE1	2:C:293:PHE:HB2	1.59	0.67
2:M:135:VAL:HB	2:M:406:HIS:HE1	1.60	0.67
2:M:136:ILE:HD13	2:M:392:SER:HB2	1.76	0.67
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.77	0.67
3:N:1489:GLN:HE22	3:N:1492:LEU:HG	1.60	0.67
3:D:550:ARG:HA	8:D:9518:HOH:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.75	0.67
5:F:366:ALA:O	5:F:370:LYS:HB3	1.94	0.67
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.76	0.67
2:M:445:GLU:HG2	8:M:9829:HOH:O	1.94	0.67
3:N:777:PRO:HD2	3:N:912:LYS:HG2	1.75	0.67
5:P:257:THR:HB	5:P:314:PRO:HG2	1.75	0.67
1:A:18:ARG:NH1	1:A:88:ARG:HE	1.93	0.67
1:A:191:ASP:HB2	8:C:9606:HOH:O	1.95	0.67
1:B:32:PHE:HB3	8:B:9655:HOH:O	1.94	0.67
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.77	0.67
2:C:944:LEU:HD21	2:C:963:LEU:HD23	1.77	0.67
3:D:817:GLU:O	3:D:821:VAL:HG23	1.95	0.67
2:M:185:LYS:HD2	8:M:9773:HOH:O	1.95	0.67
2:M:841:ASN:HD21	2:M:843:HIS:CD2	2.13	0.67
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.76	0.67
3:N:233:LYS:HA	8:N:2413:HOH:O	1.95	0.67
3:N:675:ARG:HD3	8:N:9600:HOH:O	1.94	0.67
3:N:699:VAL:N	3:N:756:GLN:HE22	1.92	0.67
1:B:34:VAL:HG22	1:B:181:VAL:HG21	1.76	0.66
2:C:163:ILE:O	2:C:163:ILE:HG12	1.95	0.66
2:C:961:GLU:HG2	8:C:9994:HOH:O	1.94	0.66
3:D:449:SER:HB3	8:D:9476:HOH:O	1.94	0.66
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.76	0.66
3:D:1307:LYS:HA	8:D:9947:HOH:O	1.95	0.66
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.77	0.66
5:F:115:LYS:HD2	8:F:9528:HOH:O	1.95	0.66
5:F:291:ILE:CG2	5:F:304:VAL:HG21	2.23	0.66
5:F:346:THR:HG23	5:F:422:LEU:HB3	1.78	0.66
1:K:123:MET:C	1:K:125:PRO:HD3	2.16	0.66
2:M:730:SER:O	2:M:734:LEU:HD23	1.94	0.66
3:N:785:ILE:H	3:N:785:ILE:HD12	1.59	0.66
3:N:1025:GLN:OE1	3:N:1025:GLN:HA	1.94	0.66
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.77	0.66
1:A:5:LYS:O	1:A:8:ALA:HB2	1.93	0.66
2:C:288:ARG:NE	2:C:288:ARG:HA	2.10	0.66
2:C:758:ARG:HB3	2:C:788:THR:O	1.95	0.66
3:D:1203:LYS:HG3	8:D:2468:HOH:O	1.92	0.66
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.78	0.66
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.59	0.66
1:L:94:LEU:CD2	1:L:119:ASP:HB3	2.09	0.66
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:172:ILE:H	2:C:172:ILE:HD12	1.60	0.66
2:C:715:THR:HG22	2:C:717:LEU:H	1.60	0.66
3:D:705:ALA:HB2	8:D:9759:HOH:O	1.94	0.66
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.59	0.66
5:F:209:PHE:CD2	5:F:213:ILE:HD11	2.29	0.66
2:M:247:PRO:HG3	8:M:9717:HOH:O	1.94	0.66
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.76	0.66
2:M:289:THR:HG23	8:M:9502:HOH:O	1.95	0.66
5:P:102:LEU:O	5:P:106:VAL:HG23	1.95	0.66
5:P:167:PRO:HB2	5:P:169:GLU:OE1	1.95	0.66
1:A:18:ARG:O	1:A:207:PRO:HD3	1.96	0.66
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.77	0.66
3:D:1126:ASP:OD1	3:D:1129:THR:HA	1.95	0.66
1:L:123:MET:C	1:L:125:PRO:HD3	2.16	0.66
3:N:864:VAL:HG12	3:N:865:THR:H	1.60	0.66
5:P:200:LYS:HG3	5:P:209:PHE:CZ	2.30	0.66
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.77	0.66
2:C:453:THR:HG21	8:C:9979:HOH:O	1.95	0.66
3:D:161:LEU:O	3:D:449:SER:HB2	1.96	0.66
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.10	0.66
3:D:979:GLU:HG3	8:D:9614:HOH:O	1.95	0.66
3:D:1269:LYS:HA	3:D:1269:LYS:HE2	1.77	0.66
5:F:260:ILE:HG12	5:F:264:MET:HB2	1.78	0.66
1:L:89:PHE:CB	1:L:94:LEU:HD22	2.25	0.66
1:L:162:ILE:HG23	8:L:4097:HOH:O	1.93	0.66
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.78	0.66
2:M:693:GLU:HG2	8:M:9913:HOH:O	1.96	0.66
3:N:119:SER:H	3:N:123:LEU:CD1	2.08	0.66
3:N:133:ILE:HG22	3:N:455:ARG:N	2.10	0.66
3:N:393:ILE:HG21	8:N:2370:HOH:O	1.95	0.66
3:N:984:THR:CG2	3:N:987:GLU:H	2.09	0.66
5:P:415:THR:O	5:P:417:LYS:HG3	1.95	0.66
1:B:89:PHE:CB	1:B:94:LEU:HD22	2.26	0.66
2:C:626:ARG:HB3	8:C:9559:HOH:O	1.96	0.66
3:D:148:GLU:CB	3:D:151:GLN:HB2	2.25	0.66
2:M:798:GLY:H	2:M:827:VAL:HG11	1.59	0.66
3:N:786:ILE:HD13	3:N:908:LYS:HB3	1.77	0.66
2:C:63:GLY:O	2:C:103:LYS:HE2	1.95	0.66
2:C:577:PRO:HA	2:C:671:ASN:HD21	1.60	0.66
3:D:63:TYR:HB3	3:D:68:PHE:HD1	1.60	0.66
5:F:199:ALA:HA	8:F:9547:HOH:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:262:VAL:HG23	8:F:9481:HOH:O	1.95	0.66
1:L:162:ILE:HG21	8:L:5120:HOH:O	1.95	0.66
2:M:360:LEU:HD21	8:M:2232:HOH:O	1.95	0.66
3:N:543:LEU:HD21	3:N:600:LEU:HB2	1.77	0.66
3:N:1497:GLU:O	3:N:1501:GLU:HG3	1.96	0.66
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.77	0.66
2:C:128:ILE:HG22	8:C:9592:HOH:O	1.94	0.66
2:C:368:THR:HG22	8:C:9664:HOH:O	1.95	0.66
3:D:422:ALA:H	3:D:427:VAL:CG1	2.09	0.66
3:D:456:MET:HG2	3:D:568:ARG:NH1	2.11	0.66
3:D:1326:THR:HG22	3:D:1327:ARG:H	1.58	0.66
1:L:23:PHE:HE1	1:L:208:LEU:HD13	1.60	0.66
1:L:77:GLU:HB2	3:N:872:ARG:HH21	1.60	0.66
2:M:36:PRO:CG	2:M:70:GLU:HB3	2.25	0.66
2:M:353:ARG:HG2	8:M:9875:HOH:O	1.95	0.66
2:M:1003:ASP:HB3	8:M:2181:HOH:O	1.95	0.66
3:N:210:ARG:HG3	3:N:398:ALA:H	1.60	0.66
3:N:1312:LEU:HA	8:N:2142:HOH:O	1.96	0.66
8:N:2375:HOH:O	5:P:374:GLY:HA3	1.95	0.66
2:C:301:GLU:HB2	8:C:9986:HOH:O	1.95	0.66
3:D:1459:LEU:HD12	3:D:1470:ARG:HH11	1.61	0.66
2:M:420:ARG:HD2	2:M:420:ARG:N	2.11	0.66
2:M:516:ARG:NH1	2:M:521:PRO:HB3	2.07	0.66
5:P:222:ARG:HA	8:P:9484:HOH:O	1.96	0.66
1:A:27:PRO:HB2	8:A:9548:HOH:O	1.95	0.66
2:C:51:THR:HB	2:C:348:LEU:HD23	1.76	0.66
2:C:97:ARG:HH21	2:C:109:LYS:HD2	1.61	0.66
2:C:729:LEU:HD11	5:F:419:ARG:HH22	1.59	0.66
3:D:149:LYS:HB3	8:D:2307:HOH:O	1.95	0.66
3:D:510:GLU:O	3:D:513:ILE:HD12	1.95	0.66
3:D:526:PRO:O	3:D:537:THR:HA	1.95	0.66
3:D:1197:ARG:HD3	3:D:1396:GLU:HB2	1.77	0.66
5:F:406:ARG:O	5:F:409:LYS:HG2	1.96	0.66
2:M:599:GLU:HB3	8:M:2119:HOH:O	1.95	0.66
1:A:58:ILE:HB	1:A:61:VAL:HB	1.79	0.65
2:C:650:ARG:HD3	2:C:650:ARG:N	2.11	0.65
2:C:1081:VAL:HB	2:C:1086:ARG:HE	1.60	0.65
5:F:92:PRO:HB2	8:F:9823:HOH:O	1.95	0.65
2:M:194:VAL:HG13	2:M:221:LEU:HD12	1.77	0.65
3:N:1398:TRP:CE3	3:N:1415:VAL:HG11	2.31	0.65
5:P:350:LEU:HD12	5:P:422:LEU:HD12	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:481:MET:HG2	3:D:493:ARG:NH2	2.11	0.65
3:D:805:GLU:HB2	8:D:2175:HOH:O	1.95	0.65
3:D:842:VAL:HG23	8:D:2600:HOH:O	1.95	0.65
3:D:873:LEU:HD21	8:D:9775:HOH:O	1.97	0.65
3:D:1359:GLN:HG2	8:D:9842:HOH:O	1.96	0.65
1:K:97:VAL:HG23	8:K:1185:HOH:O	1.95	0.65
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.78	0.65
4:O:41:GLU:HA	4:O:45:ARG:HG3	1.79	0.65
2:C:408:ARG:NH1	2:C:542:VAL:HG23	2.11	0.65
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.78	0.65
3:D:87:ARG:HG3	3:D:88:TYR:N	2.12	0.65
3:D:1400:VAL:HG12	8:D:9583:HOH:O	1.95	0.65
1:K:42:ARG:NH1	2:M:857:ASP:HB3	2.11	0.65
2:M:172:ILE:HA	2:M:185:LYS:O	1.96	0.65
2:M:411:SER:OG	2:M:452:ILE:HG23	1.96	0.65
3:N:87:ARG:HB2	3:N:523:ASP:HB2	1.78	0.65
3:N:525:ARG:HE	3:N:541:ASN:HD21	1.43	0.65
2:C:120:LEU:HD13	8:C:2036:HOH:O	1.95	0.65
2:C:1005:MET:HE3	3:D:724:GLN:O	1.96	0.65
3:D:613:ARG:HG3	3:D:613:ARG:HH11	1.61	0.65
3:D:1132:LEU:HD23	8:D:9601:HOH:O	1.95	0.65
3:D:1481:VAL:HG22	8:E:9450:HOH:O	1.97	0.65
5:F:138:SER:O	5:F:141:VAL:HG12	1.97	0.65
3:N:28:LYS:CD	3:N:41:ARG:HD2	2.26	0.65
3:N:1271:LYS:NZ	3:N:1334:GLN:HE22	1.93	0.65
5:P:367:MET:CE	5:P:371:LEU:HD11	2.26	0.65
1:A:90:LEU:HD21	8:A:9506:HOH:O	1.96	0.65
2:C:399:ASN:ND2	2:C:568:ALA:HB3	2.12	0.65
2:C:874:LEU:HD21	3:D:787:LEU:CD2	2.27	0.65
3:D:814:ALA:O	3:D:818:ARG:HG3	1.97	0.65
5:F:234:LYS:HD2	5:F:236:SER:H	1.61	0.65
5:F:295:MET:HA	5:F:295:MET:HE2	1.77	0.65
2:M:1:MET:HE1	8:M:2194:HOH:O	1.96	0.65
2:M:805:ARG:HD3	8:M:2083:HOH:O	1.96	0.65
2:M:1087:VAL:HA	8:M:9750:HOH:O	1.95	0.65
3:N:693:GLU:HG2	4:O:48:MET:SD	2.37	0.65
5:P:406:ARG:HA	5:P:409:LYS:CG	2.26	0.65
1:A:65:PHE:CE1	2:C:799:ILE:HD11	2.31	0.65
2:C:1033:GLY:O	2:C:1037:VAL:HG23	1.95	0.65
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.77	0.65
4:O:40:LEU:HD12	4:O:40:LEU:O	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:54:LEU:HG	4:O:58:PRO:HD2	1.79	0.65
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.12	0.65
2:C:464:LEU:HD12	2:C:465:GLY:N	2.11	0.65
3:D:1489:GLN:O	3:D:1493:LYS:HG2	1.97	0.65
5:F:371:LEU:HD22	5:F:375:LEU:HD13	1.78	0.65
5:F:403:LYS:HB3	8:F:9814:HOH:O	1.95	0.65
2:M:43:GLY:HA2	2:M:341:THR:CG2	2.27	0.65
2:M:107:LEU:HD11	8:M:9696:HOH:O	1.96	0.65
2:M:804:VAL:HB	2:M:824:ARG:HB2	1.79	0.65
3:N:601:ARG:HH11	3:N:613:ARG:HH21	1.44	0.65
3:N:786:ILE:CD1	3:N:908:LYS:HB3	2.26	0.65
3:N:1271:LYS:HE3	3:N:1334:GLN:HE22	1.62	0.65
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.78	0.65
1:B:226:SER:O	1:B:228:PRO:HD3	1.96	0.65
2:C:100:LEU:HD13	8:C:9627:HOH:O	1.96	0.65
2:C:244:PRO:HG2	2:C:246:ASP:OD2	1.97	0.65
2:C:383:ARG:HD2	8:C:2220:HOH:O	1.95	0.65
2:C:420:ARG:HD2	2:C:420:ARG:N	2.09	0.65
3:D:98:PRO:HG2	3:D:462:GLN:NE2	2.10	0.65
1:L:152:PRO:HD2	1:L:155:LYS:HB2	1.79	0.65
3:N:168:THR:C	3:N:170:PRO:HD3	2.17	0.65
3:N:414:ARG:HG3	3:N:418:GLY:O	1.97	0.65
2:C:112:GLU:HG2	8:C:2042:HOH:O	1.97	0.65
2:C:274:ARG:H	2:C:288:ARG:NH1	1.94	0.65
2:C:290:LEU:HD23	2:C:290:LEU:H	1.62	0.65
2:C:721:ARG:HE	2:C:783:ARG:HH21	1.44	0.65
2:C:909:ALA:HB1	2:C:914:ILE:HD11	1.79	0.65
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.79	0.65
2:M:17:PRO:HD2	8:M:9519:HOH:O	1.96	0.65
2:M:504:GLU:HB2	2:M:507:ARG:HD2	1.77	0.65
2:M:593:ALA:HA	8:M:9732:HOH:O	1.96	0.65
2:M:820:ARG:HA	8:M:9511:HOH:O	1.95	0.65
3:N:54:LYS:HD3	3:N:57:GLU:HB2	1.79	0.65
3:N:119:SER:CB	3:N:123:LEU:HB2	2.21	0.65
3:N:864:VAL:HG12	3:N:865:THR:N	2.12	0.65
1:A:184:THR:O	1:A:192:LEU:HD12	1.97	0.65
2:C:554:ASP:OD2	2:C:556:ASN:HB3	1.97	0.65
3:D:534:ARG:HG2	5:F:312:GLN:NE2	2.12	0.65
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.77	0.65
1:A:34:VAL:HG22	1:A:181:VAL:HG21	1.78	0.64
1:A:56:VAL:HG22	1:A:142:VAL:HG12	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:396:VAL:HG22	3:D:447:VAL:HB	1.79	0.64
3:D:1432:LYS:HZ3	3:D:1460:ILE:HB	1.62	0.64
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.18	0.64
3:N:441:ARG:HB3	3:N:443:VAL:HG23	1.79	0.64
3:N:1378:TYR:O	3:N:1420:LEU:HB3	1.97	0.64
2:C:172:ILE:HA	2:C:185:LYS:O	1.97	0.64
2:C:227:PHE:HB2	8:C:2150:HOH:O	1.96	0.64
2:C:810:ASP:HA	8:C:2192:HOH:O	1.97	0.64
3:D:212:ARG:HD2	3:D:445:ARG:HH12	1.62	0.64
3:D:657:LEU:O	3:D:661:MET:HG2	1.97	0.64
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.78	0.64
2:M:412:ALA:HA	8:M:9833:HOH:O	1.96	0.64
2:M:601:GLY:O	2:M:648:ARG:HA	1.97	0.64
2:M:798:GLY:H	2:M:827:VAL:CG1	2.10	0.64
2:M:1085:PHE:CZ	3:N:1468:LEU:HG	2.31	0.64
3:N:553:ARG:HH21	5:P:215:GLU:HG2	1.61	0.64
3:N:1127:GLU:HB3	8:N:2461:HOH:O	1.95	0.64
3:N:1271:LYS:NZ	3:N:1273:VAL:HA	2.12	0.64
3:N:1454:GLY:HA3	8:N:9670:HOH:O	1.97	0.64
1:B:20:TYR:HB3	8:B:9497:HOH:O	1.96	0.64
2:C:34:VAL:HG23	8:C:2231:HOH:O	1.98	0.64
2:C:1088:LEU:HD12	8:D:2415:HOH:O	1.96	0.64
3:D:415:VAL:HG11	8:D:2050:HOH:O	1.96	0.64
3:D:425:GLY:HA3	5:F:135:ILE:HD13	1.79	0.64
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.32	0.64
3:D:1487:VAL:HG11	3:D:1492:LEU:HD23	1.79	0.64
1:K:102:LYS:HG2	8:K:1171:HOH:O	1.97	0.64
2:M:290:LEU:HD22	2:M:302:VAL:CG1	2.27	0.64
3:N:73:CYS:HB3	3:N:76:CYS:O	1.96	0.64
3:N:423:ASP:OD1	5:P:175:HIS:HA	1.98	0.64
4:O:95:GLY:HA3	8:O:830:HOH:O	1.97	0.64
5:P:409:LYS:HB3	8:P:9577:HOH:O	1.98	0.64
2:C:976:ASP:HB3	2:C:979:THR:HG22	1.78	0.64
2:C:1095:LEU:HG	3:D:603:LEU:HB3	1.79	0.64
3:D:524:LEU:C	3:D:526:PRO:HD3	2.18	0.64
3:D:566:ILE:HD13	5:F:217:ASN:HB3	1.78	0.64
3:D:1412:LYS:HE3	8:D:2116:HOH:O	1.96	0.64
5:F:361:LEU:HD22	5:F:404:ALA:HB1	1.79	0.64
2:M:670:GLN:HB3	2:M:699:PHE:CE2	2.32	0.64
2:M:767:PRO:HG2	8:M:2141:HOH:O	1.98	0.64
3:N:60:CYS:HB2	8:N:9509:HOH:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:817:GLU:O	3:N:821:VAL:HG23	1.98	0.64
2:C:66:LEU:HB2	8:C:9904:HOH:O	1.97	0.64
2:C:1032:PHE:HZ	2:C:1040:LEU:HD22	1.62	0.64
3:D:988:ARG:O	3:D:992:ILE:HG13	1.98	0.64
3:D:1304:LYS:H	3:D:1304:LYS:CD	2.07	0.64
5:F:289:GLU:HA	8:F:9486:HOH:O	1.96	0.64
2:M:110:GLU:CB	2:M:369:PRO:HG3	2.27	0.64
2:M:1089:VAL:HG13	2:M:1099:VAL:CG2	2.26	0.64
3:N:185:VAL:HG11	8:N:2341:HOH:O	1.97	0.64
3:N:486:ARG:HH21	3:N:489:ARG:CZ	2.09	0.64
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.78	0.64
5:P:220:LEU:HD12	5:P:243:ILE:HD11	1.79	0.64
5:P:279:GLN:HG3	8:P:9541:HOH:O	1.98	0.64
1:A:73:GLU:OE1	1:A:130:ALA:HA	1.97	0.64
1:A:198:ARG:NH2	2:C:932:GLU:HB3	2.13	0.64
1:B:189:ARG:HD2	8:B:9558:HOH:O	1.98	0.64
2:C:5:ARG:HB3	2:C:902:ILE:HB	1.80	0.64
2:C:247:PRO:HD2	8:C:9536:HOH:O	1.97	0.64
2:C:961:GLU:HG3	8:C:9735:HOH:O	1.96	0.64
2:C:1031:ARG:HD3	3:D:619:LEU:HD21	1.79	0.64
2:C:1095:LEU:HD21	3:D:604:THR:N	2.12	0.64
3:D:813:LEU:HD11	8:D:9968:HOH:O	1.98	0.64
5:F:270:LYS:HA	8:F:9592:HOH:O	1.96	0.64
1:K:171:PHE:O	1:K:173:PRO:HD3	1.98	0.64
1:L:90:LEU:HD13	8:L:1194:HOH:O	1.96	0.64
2:M:158:TYR:HB2	2:M:313:LEU:HD21	1.79	0.64
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.80	0.64
2:M:1090:LYS:HE3	3:N:88:TYR:O	1.98	0.64
3:N:1192:LEU:HD22	3:N:1345:GLU:CD	2.18	0.64
3:N:1243:THR:HB	3:N:1253:THR:HB	1.79	0.64
2:C:599:GLU:HG3	2:C:600:ASP:N	2.13	0.64
2:C:841:ASN:HD22	2:C:841:ASN:C	2.01	0.64
3:D:658:LEU:HD13	3:D:670:VAL:HG13	1.78	0.64
5:F:205:ARG:HG3	5:F:251:ILE:HD13	1.79	0.64
2:M:139:GLN:HB3	2:M:334:ARG:HD2	1.79	0.64
2:M:269:LEU:HD23	2:M:269:LEU:H	1.62	0.64
2:M:630:ARG:HD3	2:M:705:ILE:HG22	1.79	0.64
2:M:1045:ALA:HA	3:N:758:GLU:CD	2.17	0.64
3:N:28:LYS:HD3	3:N:41:ARG:HD2	1.79	0.64
3:N:617:ASN:C	3:N:619:LEU:H	2.01	0.64
3:N:694:VAL:HG13	8:N:9768:HOH:O	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.32	0.64
2:C:141:HIS:HB2	2:C:418:LEU:HD12	1.79	0.64
3:D:972:LEU:HD23	3:D:973:GLN:N	2.11	0.64
3:D:1264:GLU:OE2	3:D:1424:VAL:HG12	1.98	0.64
3:D:1312:LEU:HD21	8:D:2130:HOH:O	1.98	0.64
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.98	0.64
1:K:58:ILE:HB	1:K:61:VAL:HB	1.80	0.64
2:M:129:ILE:HG22	2:M:130:ASN:N	2.13	0.64
2:M:332:ARG:NE	2:M:464:LEU:HD21	2.13	0.64
3:N:369:ALA:O	3:N:370:ALA:HB2	1.98	0.64
3:N:422:ALA:HB1	5:P:178:ARG:CZ	2.28	0.64
3:N:598:ARG:HG2	8:N:9783:HOH:O	1.97	0.64
3:N:1388:ARG:HG3	3:N:1389:LEU:HD23	1.80	0.64
5:P:160:ASP:O	5:P:164:LYS:HG3	1.97	0.64
1:A:194:LYS:HG2	8:A:9445:HOH:O	1.98	0.64
1:B:103:ALA:HB2	8:B:9640:HOH:O	1.96	0.64
1:B:130:ALA:HB2	8:B:9503:HOH:O	1.98	0.64
3:D:369:ALA:O	3:D:370:ALA:HB2	1.98	0.64
3:D:422:ALA:HB2	8:F:9563:HOH:O	1.98	0.64
3:D:584:ASN:HD21	3:D:590:PRO:HB2	1.61	0.64
5:F:393:THR:HG22	5:F:394:ARG:H	1.63	0.64
1:L:5:LYS:O	1:L:8:ALA:HB2	1.98	0.64
1:L:175:ARG:HD2	8:N:2419:HOH:O	1.97	0.64
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.79	0.64
2:M:432:ARG:HH22	3:N:1047:LYS:CD	2.11	0.64
2:M:707:ARG:HD2	2:M:824:ARG:HH11	1.63	0.64
3:N:116:LEU:CD2	3:N:468:LEU:HD21	2.28	0.64
1:A:89:PHE:HB3	1:A:94:LEU:HD22	1.80	0.64
2:C:14:PRO:HA	8:C:9630:HOH:O	1.98	0.64
2:C:244:PRO:HD2	2:C:245:GLY:H	1.62	0.64
2:C:442:GLU:HG3	8:C:2023:HOH:O	1.97	0.64
2:C:650:ARG:H	2:C:650:ARG:CD	2.00	0.64
2:C:834:GLN:HG2	8:C:9652:HOH:O	1.97	0.64
2:C:866:PRO:HD2	8:C:9576:HOH:O	1.98	0.64
3:D:63:TYR:HB3	3:D:68:PHE:CD1	2.33	0.64
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.29	0.64
3:D:696:HIS:HA	8:D:2155:HOH:O	1.98	0.64
3:N:440:VAL:HG13	8:N:9706:HOH:O	1.97	0.64
3:N:787:LEU:HD21	3:N:947:ILE:HD11	1.80	0.64
3:N:1101:VAL:HG11	3:N:1424:VAL:CG2	2.28	0.64
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:50:THR:HG22	8:O:4507:HOH:O	1.98	0.64
1:B:10:VAL:HG12	1:B:12:THR:HG22	1.81	0.63
2:C:73:LEU:HG	2:C:94:LEU:HD13	1.80	0.63
3:D:404:GLU:HB3	3:D:414:ARG:NE	2.13	0.63
2:M:571:LEU:CD2	2:M:700:TYR:HA	2.28	0.63
2:M:672:VAL:HG23	2:M:868:ASP:HB2	1.80	0.63
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.33	0.63
5:P:358:LEU:O	5:P:358:LEU:HD23	1.97	0.63
1:A:34:VAL:HG23	8:A:9440:HOH:O	1.97	0.63
2:C:36:PRO:CG	2:C:70:GLU:HB3	2.26	0.63
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.79	0.63
4:E:47:LYS:HE3	8:E:9392:HOH:O	1.97	0.63
1:K:73:GLU:OE1	1:K:130:ALA:HA	1.98	0.63
1:L:58:ILE:HB	1:L:61:VAL:HB	1.80	0.63
3:N:227:LEU:HA	8:N:9599:HOH:O	1.97	0.63
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.28	0.63
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.79	0.63
1:B:123:MET:HE1	8:B:9499:HOH:O	1.98	0.63
2:C:441:VAL:O	2:C:559:LEU:HD13	1.99	0.63
2:C:536:PRO:HB3	2:C:906:PHE:CD1	2.30	0.63
2:C:607:ASP:HB3	2:C:609:ASN:H	1.63	0.63
3:D:54:LYS:HG2	3:D:55:ASP:H	1.63	0.63
3:D:185:VAL:HG11	8:D:9744:HOH:O	1.99	0.63
3:D:1407:LEU:HA	8:D:2362:HOH:O	1.98	0.63
1:K:66:SER:HA	8:K:913:HOH:O	1.99	0.63
2:M:670:GLN:HB3	2:M:699:PHE:HE2	1.62	0.63
2:M:712:ALA:O	2:M:820:ARG:N	2.30	0.63
3:N:421:LEU:HD23	3:N:421:LEU:O	1.99	0.63
3:N:829:VAL:HA	8:N:9503:HOH:O	1.99	0.63
3:N:1046:GLN:NE2	3:N:1050:GLY:HA2	2.13	0.63
3:N:1055:VAL:HG12	8:N:9865:HOH:O	1.97	0.63
2:C:9:ILE:HG13	2:C:9:ILE:O	1.97	0.63
2:C:580:MET:HB3	2:C:584:GLU:CD	2.18	0.63
3:D:177:ALA:HB1	3:D:199:LEU:HD13	1.81	0.63
3:D:179:VAL:HG11	8:D:9501:HOH:O	1.97	0.63
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.63	0.63
3:D:683:ILE:HB	8:D:2010:HOH:O	1.97	0.63
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.26	0.63
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.81	0.63
3:N:646:LYS:HA	3:N:720:LEU:CD2	2.25	0.63
3:N:833:GLU:HB3	8:N:2025:HOH:O	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1100:ASP:HB2	8:N:9612:HOH:O	1.97	0.63
3:N:1191:PRO:HB3	3:N:1370:ILE:HD13	1.79	0.63
2:C:204:GLN:HE21	2:C:228:ALA:CB	2.12	0.63
2:C:591:SER:HB2	8:C:9725:HOH:O	1.98	0.63
2:C:605:LYS:CB	2:C:610:ARG:HH12	2.12	0.63
2:C:952:LEU:HD12	2:C:969:GLN:NE2	2.13	0.63
3:D:893:GLU:HG2	8:D:9710:HOH:O	1.98	0.63
3:D:1208:ASP:HB2	8:D:9803:HOH:O	1.99	0.63
4:E:46:PRO:HD2	8:E:9375:HOH:O	1.99	0.63
1:K:127:LEU:HD12	1:K:128:HIS:H	1.61	0.63
1:L:171:PHE:HB2	8:L:5023:HOH:O	1.98	0.63
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.13	0.63
2:M:347:GLY:HA2	2:M:350:ARG:HD2	1.80	0.63
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.34	0.63
3:N:148:GLU:HB3	3:N:151:GLN:CB	2.27	0.63
3:N:420:VAL:HG13	8:P:9538:HOH:O	1.98	0.63
3:N:1110:ALA:HB1	8:N:9775:HOH:O	1.98	0.63
3:N:1462:LEU:HD23	3:N:1473:PRO:HD2	1.80	0.63
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.79	0.63
1:B:58:ILE:HB	1:B:61:VAL:HB	1.80	0.63
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.64	0.63
3:D:73:CYS:HB2	3:D:76:CYS:O	1.98	0.63
5:F:276:ARG:HG3	5:F:276:ARG:HH11	1.63	0.63
1:K:223:THR:HG22	8:K:1154:HOH:O	1.98	0.63
2:M:290:LEU:HB3	8:M:9575:HOH:O	1.98	0.63
2:M:1061:GLU:HG2	8:M:2175:HOH:O	1.98	0.63
3:N:422:ALA:CB	5:P:178:ARG:HH12	2.07	0.63
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.80	0.63
3:N:1440:PHE:HA	8:N:9784:HOH:O	1.97	0.63
1:B:201:THR:HG22	1:B:203:GLY:H	1.64	0.63
2:C:1095:LEU:HA	3:D:582:LEU:HD23	1.80	0.63
3:D:131:LYS:HG2	3:D:568:ARG:HD3	1.81	0.63
3:D:1277:ILE:HD12	3:D:1301:LYS:HB2	1.81	0.63
3:D:1503:VAL:HG22	8:D:2106:HOH:O	1.99	0.63
4:E:48:MET:CB	4:E:54:LEU:HB2	2.29	0.63
4:E:60:ALA:O	4:E:63:TRP:HB2	1.98	0.63
1:K:206:THR:HG22	1:K:209:GLU:H	1.62	0.63
1:L:39:PRO:O	1:L:43:ILE:HG12	1.98	0.63
2:M:368:THR:HB	2:M:369:PRO:CD	2.29	0.63
3:N:10:ILE:HG22	3:N:1451:ALA:HA	1.79	0.63
3:N:423:ASP:OD2	5:P:178:ARG:HG3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:493:ARG:NE	3:N:1389:LEU:HD21	2.14	0.63
3:N:659:LYS:HE2	3:N:663:GLU:HG2	1.80	0.63
5:P:131:VAL:HG13	5:P:178:ARG:HG2	1.80	0.63
5:P:393:THR:HG23	5:P:394:ARG:HD2	1.79	0.63
1:A:108:GLU:HB3	8:A:9467:HOH:O	1.98	0.63
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.34	0.63
1:A:229:GLN:O	8:A:9443:HOH:O	2.15	0.63
2:C:299:LYS:HG3	8:C:2020:HOH:O	1.98	0.63
2:C:573:ARG:HD2	8:C:9990:HOH:O	1.97	0.63
2:C:606:VAL:CG2	2:C:645:VAL:HG22	2.29	0.63
3:D:1095:THR:OG1	3:D:1230:GLY:HA3	1.99	0.63
3:D:1112:CYS:HA	8:D:9721:HOH:O	1.99	0.63
5:F:365:GLU:HB2	5:F:400:ILE:CG2	2.29	0.63
1:K:212:ASN:O	1:K:215:VAL:HG22	1.98	0.63
2:M:332:ARG:HB2	2:M:466:PHE:CE1	2.34	0.63
3:N:545:ARG:NH1	3:N:545:ARG:HB3	2.14	0.63
3:D:149:LYS:H	3:D:149:LYS:CE	2.12	0.63
3:D:162:ARG:HG2	8:D:9658:HOH:O	1.99	0.63
3:D:495:ARG:HB2	8:D:2090:HOH:O	1.98	0.63
3:D:1432:LYS:HD3	3:D:1460:ILE:HD12	1.81	0.63
1:K:115:LEU:HD12	1:K:115:LEU:O	1.99	0.63
8:K:5027:HOH:O	1:L:215:VAL:HG21	1.97	0.63
1:L:186:LEU:HB2	1:L:192:LEU:CD1	2.29	0.63
2:M:143:SER:CB	2:M:276:LYS:HZ3	2.11	0.63
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.34	0.63
3:N:1116:ASN:HD22	3:N:1116:ASN:N	1.94	0.63
5:P:226:LYS:HG3	5:P:242:TRP:CZ2	2.34	0.63
2:C:911:GLU:HB2	8:C:9947:HOH:O	1.99	0.62
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.81	0.62
3:D:812:ALA:HB1	8:D:9956:HOH:O	1.98	0.62
3:D:1405:GLU:HA	8:D:9486:HOH:O	1.98	0.62
1:L:30:ARG:HE	2:M:854:PRO:HG3	1.63	0.62
2:M:23:VAL:HG12	8:M:9500:HOH:O	1.98	0.62
3:N:694:VAL:HA	8:N:9485:HOH:O	1.98	0.62
3:N:956:ILE:HD13	8:N:9750:HOH:O	1.99	0.62
3:N:1161:GLU:HG2	3:N:1164:ARG:HB2	1.79	0.62
1:A:89:PHE:CB	1:A:94:LEU:HD22	2.30	0.62
2:C:468:ARG:HG2	2:C:487:THR:HA	1.82	0.62
2:C:601:GLY:O	2:C:648:ARG:HA	2.00	0.62
3:D:486:ARG:O	3:D:489:ARG:HG2	2.00	0.62
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1412:LYS:O	3:D:1412:LYS:HG3	1.99	0.62
2:M:195:LEU:HD21	2:M:238:LEU:HG	1.80	0.62
2:M:250:ARG:HB3	2:M:253:ALA:HB3	1.81	0.62
2:M:1071:ILE:HG23	3:N:670:VAL:HG21	1.80	0.62
3:N:126:VAL:HG11	3:N:152:LEU:HD13	1.81	0.62
3:N:1052:THR:HG22	8:N:9487:HOH:O	1.99	0.62
3:N:1271:LYS:HZ1	3:N:1273:VAL:HA	1.63	0.62
1:B:81:ASN:HA	8:B:9514:HOH:O	1.99	0.62
3:D:152:LEU:HD23	3:D:152:LEU:N	2.13	0.62
3:D:957:PRO:CG	3:D:1007:VAL:HG12	2.30	0.62
3:D:1489:GLN:O	3:D:1493:LYS:HE2	2.00	0.62
4:E:48:MET:HB3	4:E:54:LEU:HB2	1.82	0.62
5:F:81:VAL:O	5:F:85:LEU:HG	1.99	0.62
5:F:344:ALA:HA	8:F:9487:HOH:O	1.98	0.62
2:M:472:ARG:HD2	2:M:480:THR:O	1.99	0.62
2:M:971:LYS:HA	2:M:988:VAL:HA	1.80	0.62
3:N:556:LYS:HE2	5:P:218:GLN:HE22	1.64	0.62
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.81	0.62
2:C:338:GLU:HA	2:C:341:THR:HG22	1.81	0.62
2:C:512:ARG:CD	2:C:523:ILE:HD11	2.29	0.62
3:D:199:LEU:O	3:D:199:LEU:HD23	1.98	0.62
5:F:93:LEU:HD11	5:F:102:LEU:HD12	1.81	0.62
1:L:54:THR:CG2	1:L:158:ILE:HG13	2.29	0.62
3:N:58:CYS:SG	3:N:59:ALA:N	2.71	0.62
3:N:127:LEU:HD12	3:N:457:GLY:H	1.62	0.62
3:N:655:PRO:HA	3:N:658:LEU:HD12	1.81	0.62
3:N:1472:ILE:HG22	3:N:1475:GLY:H	1.63	0.62
5:P:402:ASN:O	5:P:406:ARG:CD	2.43	0.62
1:A:167:VAL:HA	8:A:9446:HOH:O	1.99	0.62
1:B:91:ASN:OD1	1:B:93:SER:HB2	1.99	0.62
2:C:443:THR:HG23	2:C:444:PRO:HD2	1.80	0.62
3:D:572:ARG:NE	5:F:80:PRO:HG3	2.14	0.62
3:D:862:ASP:O	3:D:877:PRO:HD2	2.00	0.62
3:D:1346:ARG:HA	3:D:1346:ARG:HH11	1.65	0.62
3:D:1493:LYS:O	3:D:1497:GLU:HG2	1.98	0.62
5:F:405:LEU:O	5:F:408:LEU:HD22	1.98	0.62
1:K:27:PRO:HB2	8:K:1253:HOH:O	1.97	0.62
1:L:137:ARG:HH12	1:L:139:ASN:HB3	1.65	0.62
2:M:598:GLU:O	2:M:651:LYS:HG3	2.00	0.62
2:M:1049:LEU:O	2:M:1053:LEU:HD23	1.98	0.62
3:N:179:VAL:HG13	8:N:9757:HOH:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:440:VAL:HA	8:N:2151:HOH:O	1.99	0.62
4:O:40:LEU:HB2	4:O:45:ARG:CD	2.30	0.62
4:O:51:LEU:HD21	8:O:709:HOH:O	2.00	0.62
5:P:350:LEU:HD12	5:P:422:LEU:HB3	1.81	0.62
5:P:395:GLU:O	5:P:399:GLN:CG	2.45	0.62
1:B:107:LYS:HB3	8:B:9534:HOH:O	1.98	0.62
2:C:197:LEU:HD22	2:C:202:TYR:CD2	2.34	0.62
3:D:774:SER:HB3	3:D:1362:LYS:O	2.00	0.62
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.34	0.62
4:E:4:PRO:HD2	8:E:9453:HOH:O	1.98	0.62
4:E:23:VAL:CG2	4:E:65:MET:HG2	2.30	0.62
1:K:23:PHE:O	1:K:196:THR:HA	1.98	0.62
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.82	0.62
1:K:47:SER:HB2	1:K:217:ILE:HD13	1.81	0.62
2:M:537:LYS:HA	2:M:905:ILE:HD11	1.81	0.62
2:M:1013:TYR:HE2	5:P:341:PRO:HD2	1.65	0.62
2:M:1101:THR:CB	3:N:5:VAL:HG13	2.21	0.62
3:N:656:PHE:CE2	3:N:698:LYS:HE3	2.34	0.62
3:N:1418:LYS:HB3	8:N:9558:HOH:O	1.99	0.62
5:P:416:ARG:HH11	5:P:419:ARG:HB3	1.63	0.62
1:B:159:LYS:HB2	8:B:9544:HOH:O	1.98	0.62
3:D:131:LYS:HB3	3:D:456:MET:CE	2.30	0.62
3:D:670:VAL:O	3:D:674:ARG:HG3	2.00	0.62
2:M:91:GLN:OE1	2:M:117:HIS:HB3	2.00	0.62
2:M:396:ASP:HA	2:M:633:GLN:NE2	2.13	0.62
2:M:1044:GLY:N	3:N:762:GLN:OE1	2.31	0.62
3:N:404:GLU:HB3	8:N:2350:HOH:O	2.00	0.62
3:N:558:LEU:HD22	5:P:145:PRO:HG3	1.80	0.62
3:N:1030:GLY:HA3	8:N:9601:HOH:O	1.98	0.62
5:P:376:ILE:HD12	8:P:9528:HOH:O	2.00	0.62
2:C:254:VAL:HG13	2:C:258:TYR:HE1	1.65	0.62
2:C:957:LYS:CD	2:C:961:GLU:HB3	2.30	0.62
2:M:25:SER:OG	2:M:336:VAL:HB	2.00	0.62
2:M:332:ARG:HB2	2:M:466:PHE:HE1	1.64	0.62
2:M:926:PHE:HE1	2:M:929:ARG:NH2	1.97	0.62
2:M:931:GLY:HA3	8:M:9835:HOH:O	1.99	0.62
3:N:195:VAL:HG13	8:N:9862:HOH:O	1.98	0.62
3:N:484:PRO:O	3:N:489:ARG:HD2	1.99	0.62
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.82	0.62
3:N:543:LEU:O	3:N:546:ARG:HB2	2.00	0.62
3:N:961:LYS:HA	8:N:2262:HOH:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:304:VAL:O	5:P:308:LEU:HG	2.00	0.62
1:A:6:LEU:C	1:A:8:ALA:H	2.02	0.62
2:C:443:THR:HG21	2:C:450:GLY:N	2.14	0.62
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	1.81	0.62
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.30	0.62
1:L:77:GLU:CB	3:N:872:ARG:HH21	2.11	0.62
2:M:341:THR:HG23	8:M:9899:HOH:O	1.99	0.62
2:M:536:PRO:HD2	8:M:9912:HOH:O	2.00	0.62
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.82	0.62
3:N:781:PRO:HG2	3:N:934:LEU:HD22	1.81	0.62
2:C:881:ASN:N	2:C:881:ASN:ND2	2.47	0.62
2:C:886:LEU:HA	8:C:9674:HOH:O	1.98	0.62
3:D:32:ILE:HG22	5:F:258:ILE:HD13	1.81	0.62
3:D:83:SER:HB2	8:D:9611:HOH:O	2.00	0.62
3:D:986:ARG:HG3	3:D:990:ASP:OD1	2.00	0.62
2:M:92:ALA:HB2	2:M:120:LEU:HD21	1.79	0.62
2:M:279:GLU:HG3	2:M:280:LYS:HG3	1.81	0.62
2:M:841:ASN:ND2	2:M:843:HIS:CD2	2.68	0.62
8:M:9750:HOH:O	3:N:524:LEU:HD11	2.00	0.62
3:N:181:ASP:CG	3:N:198:ARG:HB2	2.21	0.62
3:N:1314:LYS:HD3	3:N:1314:LYS:H	1.64	0.62
1:A:162:ILE:HG13	1:A:163:ASN:ND2	2.15	0.61
1:B:175:ARG:O	3:D:851:LEU:HD21	2.00	0.61
2:C:444:PRO:HG2	2:C:452:ILE:HD12	1.82	0.61
2:C:759:THR:HG21	2:C:783:ARG:NH1	2.15	0.61
3:D:58:CYS:SG	3:D:78:VAL:HB	2.40	0.61
3:D:565:ILE:HD13	5:F:192:LEU:CD1	2.30	0.61
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.82	0.61
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.82	0.61
2:M:101:ILE:HG22	2:M:102:HIS:H	1.65	0.61
2:M:181:VAL:HG23	8:M:9655:HOH:O	2.00	0.61
2:M:987:ILE:HD12	3:N:948:THR:CG2	2.30	0.61
2:M:1097:LEU:HB3	3:N:10:ILE:HG23	1.81	0.61
3:N:11:ALA:HB1	3:N:507:ASN:OD1	2.00	0.61
3:N:434:ARG:CB	3:N:447:VAL:HG22	2.27	0.61
3:N:539:ASP:HB2	5:P:318:GLU:OE2	1.99	0.61
3:N:868:TYR:CD1	3:N:869:MET:HG3	2.34	0.61
5:P:94:LEU:HD12	5:P:97:GLU:N	2.15	0.61
1:A:198:ARG:HB2	1:A:200:TRP:CZ3	2.35	0.61
1:B:74:ASP:O	1:B:78:ILE:HG13	2.00	0.61
3:D:66:GLN:HB2	8:D:2184:HOH:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:438:ASP:OD2	3:D:440:VAL:HB	2.00	0.61
3:D:470:LEU:HD23	8:D:9988:HOH:O	1.99	0.61
3:D:546:ARG:O	3:D:550:ARG:HG2	2.00	0.61
1:A:14:ARG:HH22	1:A:24:VAL:CG2	2.13	0.61
1:A:185:ARG:HD2	8:A:9484:HOH:O	2.00	0.61
2:C:645:VAL:HG23	8:C:9746:HOH:O	2.00	0.61
2:C:893:ALA:O	2:C:897:LEU:HB2	1.99	0.61
3:D:770:LEU:HB2	3:D:1210:SER:O	2.00	0.61
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.65	0.61
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.35	0.61
2:M:30:LEU:O	2:M:30:LEU:HD12	2.00	0.61
2:M:480:THR:HG22	2:M:482:GLU:H	1.64	0.61
2:M:722:ILE:HG21	2:M:821:GLU:OE1	2.00	0.61
3:N:87:ARG:HG3	3:N:88:TYR:N	2.14	0.61
5:P:365:GLU:HB2	5:P:400:ILE:CG2	2.30	0.61
5:P:369:LEU:O	5:P:373:LYS:HD3	2.00	0.61
1:A:154:GLU:HA	8:C:9698:HOH:O	1.99	0.61
1:B:89:PHE:HB3	1:B:94:LEU:HD22	1.81	0.61
2:C:110:GLU:HG2	2:C:369:PRO:CG	2.30	0.61
2:C:624:PRO:O	2:C:625:LEU:HD23	2.00	0.61
2:C:722:ILE:O	2:C:722:ILE:HD13	2.00	0.61
2:C:1090:LYS:HG3	3:D:521:PRO:HG2	1.82	0.61
2:C:1109:VAL:HA	8:C:2004:HOH:O	2.00	0.61
3:D:572:ARG:CZ	5:F:80:PRO:HD3	2.30	0.61
3:D:581:LEU:O	3:D:603:LEU:HD12	2.00	0.61
3:D:770:LEU:HD23	3:D:777:PRO:HA	1.82	0.61
3:D:1377:LYS:HE2	3:D:1378:TYR:OH	2.00	0.61
4:E:41:GLU:N	4:E:45:ARG:HG3	2.14	0.61
1:K:6:LEU:C	1:K:8:ALA:H	2.02	0.61
1:L:125:PRO:HD2	8:L:2988:HOH:O	2.00	0.61
2:M:30:LEU:HD22	2:M:118:ILE:HD11	1.82	0.61
2:M:1019:GLN:HE22	3:N:621:LYS:HE3	1.65	0.61
3:N:703:ASN:ND2	3:N:713:ILE:HG12	2.15	0.61
3:N:789:LEU:HD13	3:N:934:LEU:HD23	1.81	0.61
3:N:806:PHE:HE1	3:N:813:LEU:HB3	1.65	0.61
5:P:393:THR:CG2	5:P:394:ARG:HD2	2.30	0.61
1:B:73:GLU:OE1	1:B:130:ALA:HA	2.00	0.61
2:C:333:ILE:HD13	2:C:467:ILE:HD11	1.80	0.61
2:C:676:ILE:HG23	2:C:676:ILE:O	2.00	0.61
2:C:859:PRO:O	2:C:867:VAL:HG22	2.01	0.61
2:C:1094:ALA:CB	3:D:603:LEU:HD13	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:9:ARG:NH1	3:D:11:ALA:HB2	2.15	0.61
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.81	0.61
3:D:190:GLU:CD	3:D:190:GLU:H	2.03	0.61
3:D:1243:THR:CB	3:D:1253:THR:HB	2.31	0.61
4:E:47:LYS:N	4:E:54:LEU:HD22	2.14	0.61
3:N:568:ARG:CZ	8:N:2401:HOH:O	2.47	0.61
3:N:769:LEU:HG	3:N:931:LEU:HD11	1.83	0.61
4:O:87:LYS:HA	8:O:728:HOH:O	2.00	0.61
5:P:371:LEU:HD22	5:P:375:LEU:HD13	1.82	0.61
2:C:431:HIS:CE1	2:C:432:ARG:HG2	2.36	0.61
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.82	0.61
3:D:576:GLU:HA	3:D:579:ASP:OD2	2.01	0.61
3:D:1264:GLU:HG2	3:D:1266:ARG:CZ	2.31	0.61
2:M:164:PRO:HG2	8:M:9585:HOH:O	2.00	0.61
3:N:436:GLU:HB2	3:N:445:ARG:HB3	1.81	0.61
3:N:1332:PRO:HB3	3:N:1421:LEU:HD21	1.83	0.61
3:N:1409:ALA:HB3	8:N:9829:HOH:O	2.01	0.61
5:P:289:GLU:HA	8:P:9504:HOH:O	2.00	0.61
1:A:101:LEU:HD23	1:A:102:LYS:N	2.16	0.61
8:C:9889:HOH:O	3:D:659:LYS:HG2	2.00	0.61
3:D:551:ASN:O	3:D:554:LEU:HB3	2.00	0.61
3:D:984:THR:HG22	3:D:987:GLU:CG	2.31	0.61
3:D:1377:LYS:HE2	3:D:1378:TYR:CZ	2.36	0.61
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.82	0.61
5:F:350:LEU:CD1	5:F:422:LEU:HB2	2.30	0.61
5:F:361:LEU:CD1	5:F:366:ALA:HB2	2.16	0.61
1:L:186:LEU:HB2	1:L:192:LEU:HD11	1.83	0.61
2:M:380:ALA:O	2:M:384:GLU:HB2	2.00	0.61
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.31	0.61
2:M:916:GLU:O	2:M:919:ALA:HB3	2.01	0.61
3:N:1267:ARG:NH1	3:N:1271:LYS:HG3	2.16	0.61
4:O:57:ASP:HB3	8:O:5269:HOH:O	1.99	0.61
5:P:377:ASP:HB3	8:P:9661:HOH:O	2.00	0.61
1:A:123:MET:HE3	1:A:203:GLY:O	2.01	0.61
1:B:156:HIS:HD2	1:B:157:GLY:H	1.49	0.61
1:B:212:ASN:O	1:B:215:VAL:HG22	2.01	0.61
2:C:723:THR:HG21	2:C:783:ARG:HH22	1.66	0.61
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.82	0.61
3:D:675:ARG:O	3:D:678:GLU:HG2	2.01	0.61
3:D:925:GLU:OE1	4:E:6:ILE:HG22	2.00	0.61
3:D:1286:THR:HG22	3:D:1287:GLU:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.66	0.61
5:F:135:ILE:HD11	5:F:178:ARG:HB3	1.82	0.61
1:K:219:ARG:HG3	8:L:961:HOH:O	2.00	0.61
1:L:101:LEU:HD23	1:L:102:LYS:N	2.15	0.61
1:L:212:ASN:O	1:L:215:VAL:HG22	2.00	0.61
2:M:264:PRO:HB2	2:M:289:THR:OG1	2.00	0.61
3:N:191:LEU:CB	3:N:195:VAL:HG21	2.30	0.61
5:P:340:SER:O	5:P:342:VAL:N	2.33	0.61
1:B:101:LEU:HD23	1:B:102:LYS:N	2.15	0.61
2:C:15:LEU:H	2:C:15:LEU:CD2	2.11	0.61
2:C:18:LEU:HD23	2:C:542:VAL:HG21	1.83	0.61
2:C:1038:TRP:CZ2	3:D:1096:ARG:HD2	2.36	0.61
3:D:583:ASP:OD2	3:D:604:THR:HB	2.01	0.61
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.83	0.61
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.83	0.61
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.83	0.61
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.81	0.61
3:N:65:ARG:HG3	3:N:66:GLN:H	1.65	0.61
3:N:422:ALA:HB1	5:P:178:ARG:NH2	2.15	0.61
3:N:560:GLN:HE21	3:N:560:GLN:HA	1.66	0.61
3:N:804:LEU:HD11	8:N:9675:HOH:O	1.99	0.61
3:N:1450:ALA:HA	3:N:1455:LYS:HG3	1.83	0.61
5:P:324:GLU:HG3	8:P:9622:HOH:O	2.00	0.61
1:A:23:PHE:O	1:A:196:THR:HA	2.00	0.61
1:B:86:VAL:HG23	8:B:9484:HOH:O	2.00	0.61
2:C:1005:MET:HE3	3:D:645:PRO:HG2	1.83	0.61
3:D:1426:LYS:HB2	3:D:1426:LYS:NZ	2.16	0.61
2:M:266:ARG:HB3	8:M:9764:HOH:O	2.00	0.61
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.83	0.61
1:B:67:THR:HB	8:B:9510:HOH:O	2.01	0.60
2:C:89:THR:O	2:C:91:GLN:HG3	2.01	0.60
2:C:129:ILE:HB	8:C:2312:HOH:O	2.00	0.60
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.01	0.60
3:D:13:ALA:HB1	3:D:18:ILE:HD11	1.82	0.60
3:D:50:PHE:HB3	3:D:522:PRO:HG2	1.82	0.60
3:D:466:LYS:HE2	8:D:9933:HOH:O	2.00	0.60
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.82	0.60
3:D:636:GLN:HB2	8:D:2028:HOH:O	2.01	0.60
3:D:970:LYS:HG2	8:D:2147:HOH:O	2.00	0.60
3:D:1309:ALA:HB1	3:D:1326:THR:HG23	1.82	0.60
1:L:74:ASP:O	1:L:78:ILE:HG13	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:176:VAL:C	2:M:178:PRO:HD3	2.21	0.60
2:M:195:LEU:O	2:M:199:VAL:HG23	2.00	0.60
2:M:762:LYS:HB2	2:M:762:LYS:NZ	2.16	0.60
2:M:1018:GLN:NE2	2:M:1063:ARG:NH2	2.49	0.60
3:N:639:LEU:HD11	3:N:931:LEU:HD12	1.82	0.60
3:N:729:HIS:CE1	3:N:731:LEU:HG	2.36	0.60
3:N:814:ALA:HB2	8:N:9621:HOH:O	2.01	0.60
3:N:1095:THR:OG1	3:N:1230:GLY:HA3	2.01	0.60
3:N:1147:ARG:H	3:N:1166:LEU:HD23	1.66	0.60
3:N:1309:ALA:HB1	3:N:1326:THR:HG23	1.82	0.60
5:P:118:GLU:HB3	8:P:9609:HOH:O	2.01	0.60
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.82	0.60
1:A:182:GLU:OE1	2:C:934:PHE:HB3	2.00	0.60
2:C:49:ARG:HD3	8:C:2304:HOH:O	2.00	0.60
2:C:528:GLU:O	2:C:530:GLU:HG3	2.01	0.60
2:C:1090:LYS:HB3	3:D:521:PRO:HD2	1.83	0.60
3:D:547:LEU:CD2	3:D:581:LEU:HD21	2.31	0.60
3:D:556:LYS:HD2	8:D:2572:HOH:O	2.01	0.60
3:D:710:ARG:HG3	3:D:711:LEU:N	2.15	0.60
3:D:1459:LEU:HB3	3:D:1465:ASN:ND2	2.16	0.60
5:F:346:THR:HG21	5:F:422:LEU:O	2.01	0.60
1:L:108:GLU:HB3	1:L:128:HIS:CE1	2.27	0.60
2:M:288:ARG:HD2	8:M:2222:HOH:O	2.01	0.60
3:N:127:LEU:HD21	3:N:461:ILE:HD11	1.82	0.60
3:N:422:ALA:H	3:N:427:VAL:CG1	2.13	0.60
3:N:834:THR:HB	3:N:838:ARG:HB2	1.83	0.60
1:A:54:THR:CG2	1:A:158:ILE:HG13	2.31	0.60
2:C:73:LEU:HD23	2:C:94:LEU:HB2	1.83	0.60
2:C:205:GLU:HB2	8:C:9906:HOH:O	2.00	0.60
2:C:876:VAL:HG22	2:C:884:GLN:HE21	1.65	0.60
2:C:1096:ALA:HB3	3:D:101:HIS:ND1	2.16	0.60
8:C:2084:HOH:O	3:D:3:LYS:HG3	2.01	0.60
3:D:119:SER:CB	3:D:123:LEU:HB2	2.32	0.60
5:F:140:ARG:HG3	5:F:141:VAL:N	2.15	0.60
5:F:350:LEU:HD13	5:F:422:LEU:HB2	1.82	0.60
1:K:39:PRO:O	1:K:43:ILE:HG12	2.02	0.60
2:M:254:VAL:O	2:M:257:VAL:HG23	2.00	0.60
2:M:846:LYS:NZ	3:N:741:ASP:O	2.34	0.60
3:N:960:LYS:HG2	3:N:964:LEU:HD12	1.83	0.60
2:C:379:GLU:O	2:C:383:ARG:HB3	2.01	0.60
2:C:498:GLN:HB3	8:C:9751:HOH:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1009:SER:HB2	3:D:651:GLU:O	2.02	0.60
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.36	0.60
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.83	0.60
3:D:148:GLU:HA	3:D:149:LYS:HE2	1.83	0.60
3:D:512:MET:HB3	8:D:2085:HOH:O	1.99	0.60
3:D:572:ARG:HH22	5:F:83:GLN:NE2	2.00	0.60
3:D:584:ASN:HB2	3:D:602:SER:OG	2.02	0.60
3:D:772:PRO:O	3:D:1367:HIS:NE2	2.34	0.60
3:D:894:LYS:HG2	8:D:9710:HOH:O	2.01	0.60
3:D:1357:ARG:HG3	8:D:2490:HOH:O	2.01	0.60
4:E:41:GLU:HB3	4:E:42:PRO:HD3	1.84	0.60
5:F:114:LYS:HE3	8:F:9811:HOH:O	2.01	0.60
5:F:160:ASP:O	5:F:164:LYS:HG3	2.01	0.60
1:K:12:THR:HG23	1:K:24:VAL:HB	1.84	0.60
1:L:216:GLU:HG3	1:L:220:GLU:OE1	2.01	0.60
2:M:110:GLU:H	2:M:368:THR:HG21	1.66	0.60
2:M:313:LEU:HD13	2:M:321:GLU:O	2.02	0.60
2:M:405:ARG:HH21	2:M:409:ARG:HH21	1.47	0.60
3:N:535:PHE:O	5:P:314:PRO:HA	2.01	0.60
3:N:798:GLU:HG2	3:N:799:LYS:H	1.65	0.60
3:N:868:TYR:HD1	3:N:869:MET:HG3	1.66	0.60
3:N:1033:GLN:HG2	8:N:2106:HOH:O	2.00	0.60
4:O:60:ALA:O	4:O:63:TRP:HB2	2.01	0.60
2:C:4:LYS:HD3	8:C:2222:HOH:O	2.00	0.60
2:C:49:ARG:HB2	2:C:49:ARG:CZ	2.31	0.60
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.83	0.60
1:L:89:PHE:HB3	1:L:120:VAL:HG22	1.82	0.60
2:M:398:THR:HG23	2:M:635:THR:HG21	1.82	0.60
2:M:432:ARG:NH1	3:N:1047:LYS:HE2	2.12	0.60
2:M:905:ILE:HG12	8:M:9571:HOH:O	2.00	0.60
2:M:1096:ALA:O	3:N:13:ALA:HB2	2.01	0.60
3:N:1092:GLY:O	3:N:1096:ARG:HB2	2.01	0.60
3:N:1161:GLU:CG	3:N:1164:ARG:HB2	2.32	0.60
1:A:115:LEU:HD12	1:A:115:LEU:O	2.00	0.60
1:B:6:LEU:C	1:B:8:ALA:H	2.03	0.60
2:C:170:PRO:HG2	2:C:258:TYR:CD2	2.37	0.60
2:C:176:VAL:HG12	2:C:182:VAL:CG1	2.31	0.60
2:C:244:PRO:HA	8:C:2250:HOH:O	2.01	0.60
2:C:462:ASP:HB2	8:C:9962:HOH:O	2.02	0.60
2:C:776:SER:HA	2:C:780:GLU:HB3	1.83	0.60
2:C:1115:LEU:HG	8:C:9518:HOH:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:44:GLU:N	8:E:9370:HOH:O	2.33	0.60
4:E:74:VAL:CG1	4:E:79:LEU:HD21	2.31	0.60
2:M:42:VAL:HG12	2:M:43:GLY:H	1.65	0.60
2:M:93:PRO:HG3	2:M:117:HIS:CE1	2.32	0.60
2:M:206:THR:HB	8:M:9850:HOH:O	2.00	0.60
2:M:208:ALA:HB1	2:M:218:VAL:HG11	1.82	0.60
2:M:1019:GLN:HE22	3:N:621:LYS:CE	2.14	0.60
3:N:462:GLN:HA	3:N:513:ILE:CD1	2.30	0.60
3:N:786:ILE:HG21	3:N:1027:GLY:N	2.16	0.60
1:B:185:ARG:HA	8:B:9553:HOH:O	2.01	0.60
1:B:206:THR:HG22	1:B:209:GLU:CG	2.32	0.60
1:B:206:THR:HG22	1:B:209:GLU:HG3	1.83	0.60
3:D:380:GLU:O	3:D:382:GLU:N	2.34	0.60
3:D:486:ARG:HA	3:D:489:ARG:HD3	1.83	0.60
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.17	0.60
4:E:46:PRO:HB3	4:E:54:LEU:HD21	1.84	0.60
5:F:156:VAL:HG13	8:F:9476:HOH:O	2.02	0.60
1:K:29:GLU:N	8:K:1204:HOH:O	2.34	0.60
2:M:686:ASP:O	3:N:740:PHE:HB2	2.02	0.60
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.36	0.60
3:N:1346:ARG:O	3:N:1350:GLU:HG3	2.01	0.60
3:N:1388:ARG:O	3:N:1391:GLU:HG2	2.00	0.60
1:A:218:LEU:CD2	1:B:222:LEU:HD11	2.31	0.60
1:B:18:ARG:O	1:B:207:PRO:HD3	2.02	0.60
1:B:215:VAL:HG23	8:B:9526:HOH:O	2.01	0.60
2:C:1050:GLN:HB2	8:D:2065:HOH:O	2.02	0.60
3:D:477:LEU:HD21	3:D:495:ARG:NH1	2.17	0.60
3:D:560:GLN:O	5:F:184:ARG:NH2	2.35	0.60
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.84	0.60
5:F:277:GLN:HG3	8:F:9724:HOH:O	2.00	0.60
1:K:96:THR:OG1	1:K:143:ARG:NH1	2.35	0.60
1:K:197:LEU:HD23	1:K:197:LEU:H	1.66	0.60
1:L:18:ARG:O	1:L:207:PRO:HD3	2.01	0.60
1:L:226:SER:HA	8:L:3072:HOH:O	2.02	0.60
2:M:397:GLU:HG3	2:M:631:SER:HB2	1.83	0.60
2:M:803:THR:HG22	2:M:825:VAL:HG22	1.82	0.60
8:M:9822:HOH:O	3:N:651:GLU:HB3	2.01	0.60
3:N:1441:GLN:HB2	8:N:9617:HOH:O	2.01	0.60
4:O:48:MET:HB3	4:O:54:LEU:HB2	1.83	0.60
5:P:406:ARG:HA	5:P:409:LYS:HD3	1.83	0.60
1:A:212:ASN:O	1:A:215:VAL:HG22	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:18:ILE:HG21	3:D:516:ALA:O	2.02	0.60
1:K:1:MET:O	1:K:6:LEU:HD22	2.01	0.60
1:L:86:VAL:HA	8:L:1948:HOH:O	2.01	0.60
1:L:162:ILE:HD13	8:L:5120:HOH:O	2.01	0.60
2:M:535:SER:HB2	8:M:9912:HOH:O	2.02	0.60
3:N:785:ILE:HD12	3:N:785:ILE:N	2.16	0.60
3:N:1397:LYS:HG2	8:N:2381:HOH:O	2.01	0.60
2:C:841:ASN:ND2	2:C:843:HIS:H	2.00	0.60
4:E:50:THR:HG22	8:E:9360:HOH:O	2.01	0.60
5:F:94:LEU:HD13	5:F:96:LEU:N	2.15	0.60
5:F:419:ARG:O	5:F:421:PHE:N	2.35	0.60
1:K:108:GLU:O	1:K:110:LYS:HG3	2.01	0.60
1:L:185:ARG:HH12	3:N:692:GLU:HG3	1.67	0.60
2:M:443:THR:HG22	2:M:452:ILE:O	2.02	0.60
2:M:878:SER:HA	3:N:1034:GLN:OE1	2.02	0.60
3:N:52:PRO:HB3	3:N:80:VAL:HB	1.83	0.60
3:N:538:SER:N	5:P:317:LEU:HD12	2.16	0.60
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.83	0.60
5:P:376:ILE:HG22	5:P:377:ASP:CB	2.31	0.60
1:B:7:LYS:CE	1:B:186:LEU:HD13	2.31	0.59
2:C:41:ASN:O	2:C:46:ALA:HB2	2.02	0.59
2:C:288:ARG:HA	2:C:288:ARG:HE	1.66	0.59
2:C:462:ASP:CG	2:C:463:GLU:H	2.05	0.59
3:D:601:ARG:HD3	3:D:613:ARG:HH21	1.67	0.59
1:L:76:VAL:HA	1:L:79:ILE:HG12	1.82	0.59
2:M:49:ARG:NH2	8:M:9564:HOH:O	2.35	0.59
3:N:380:GLU:O	3:N:382:GLU:N	2.35	0.59
3:N:984:THR:HG22	3:N:987:GLU:CG	2.29	0.59
3:N:1046:GLN:HB3	8:N:9803:HOH:O	2.01	0.59
3:N:1122:LEU:HD23	3:N:1178:ALA:HB2	1.84	0.59
2:C:1001:VAL:HG12	8:C:2021:HOH:O	2.02	0.59
3:D:594:PRO:HB2	8:D:2420:HOH:O	2.02	0.59
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.31	0.59
1:K:101:LEU:HD23	1:K:102:LYS:N	2.17	0.59
1:L:108:GLU:O	1:L:110:LYS:HG3	2.02	0.59
2:M:1009:SER:HB2	3:N:651:GLU:OE1	2.02	0.59
3:N:47:GLU:HB2	3:N:78:VAL:HG22	1.84	0.59
5:P:166:LEU:O	5:P:171:LYS:HB2	2.02	0.59
1:B:7:LYS:NZ	1:B:186:LEU:HD13	2.18	0.59
1:B:38:ASN:HB2	8:C:2221:HOH:O	2.00	0.59
2:C:42:VAL:HG11	8:C:9546:HOH:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:162:ILE:HB	2:C:172:ILE:HD13	1.83	0.59
2:C:208:ALA:HB1	2:C:218:VAL:HG11	1.85	0.59
2:C:1042:ALA:O	3:D:1220:ALA:HB3	2.01	0.59
3:D:4:GLU:HB2	8:D:9671:HOH:O	2.02	0.59
3:D:407:VAL:HA	8:D:9600:HOH:O	2.01	0.59
3:D:525:ARG:HA	3:D:538:SER:OG	2.01	0.59
3:D:546:ARG:NH2	3:D:550:ARG:HH22	2.00	0.59
5:F:184:ARG:O	5:F:188:ILE:HG13	2.02	0.59
2:M:376:ARG:HH12	5:P:285:GLU:HG2	1.66	0.59
2:M:1083:GLU:O	2:M:1087:VAL:HG23	2.02	0.59
3:N:111:LYS:HE2	3:N:111:LYS:HA	1.85	0.59
3:N:177:ALA:HB1	3:N:199:LEU:CG	2.32	0.59
3:N:555:LYS:HA	3:N:558:LEU:HD12	1.84	0.59
3:N:1489:GLN:HA	3:N:1489:GLN:NE2	2.16	0.59
2:C:101:ILE:HG22	2:C:102:HIS:H	1.67	0.59
3:D:488:ARG:HD3	8:D:2340:HOH:O	2.01	0.59
3:D:1022:VAL:HG21	8:D:9500:HOH:O	2.02	0.59
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.16	0.59
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.15	0.59
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.32	0.59
2:M:250:ARG:CZ	2:M:253:ALA:HB1	2.31	0.59
2:M:297:GLU:HB2	8:M:9925:HOH:O	2.03	0.59
3:N:58:CYS:SG	3:N:78:VAL:HB	2.43	0.59
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.32	0.59
3:N:1336:LEU:HD22	3:N:1421:LEU:HB2	1.83	0.59
5:P:359:SER:HB3	8:P:9756:HOH:O	2.00	0.59
2:C:34:VAL:HB	2:C:38:LYS:CG	2.29	0.59
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.22	0.59
2:C:751:PRO:HB2	3:D:680:GLN:CG	2.30	0.59
3:D:168:THR:C	3:D:170:PRO:HD3	2.23	0.59
3:D:452:ILE:HG23	3:D:452:ILE:O	2.01	0.59
3:D:783:ARG:HH21	3:D:1029:ARG:HG2	1.68	0.59
3:D:1263:PHE:CZ	3:D:1352:ILE:HD13	2.37	0.59
3:D:1264:GLU:HB3	3:D:1266:ARG:HD2	1.84	0.59
3:D:1390:LEU:HG	8:D:9868:HOH:O	2.02	0.59
3:D:1399:ASP:O	3:D:1403:LEU:HB2	2.02	0.59
1:K:53:VAL:HG12	1:K:167:VAL:HG21	1.83	0.59
1:K:89:PHE:HB3	1:K:120:VAL:HG22	1.84	0.59
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.84	0.59
2:M:514:VAL:HG11	2:M:516:ARG:CZ	2.32	0.59
2:M:571:LEU:HD22	2:M:670:GLN:OE1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.34	0.59
3:N:75:ARG:HH11	3:N:75:ARG:HG3	1.67	0.59
3:N:146:PRO:HA	8:N:9562:HOH:O	2.03	0.59
3:N:756:GLN:O	3:N:760:ARG:HG2	2.02	0.59
5:P:200:LYS:HA	5:P:209:PHE:HE1	1.67	0.59
1:B:102:LYS:HB3	8:B:9575:HOH:O	2.02	0.59
1:B:206:THR:HG22	1:B:209:GLU:H	1.68	0.59
2:C:42:VAL:HG12	2:C:43:GLY:N	2.18	0.59
2:C:57:GLU:O	2:C:62:GLY:HA3	2.02	0.59
2:C:120:LEU:HB2	8:C:2229:HOH:O	2.01	0.59
3:D:23:TYR:O	3:D:49:ILE:HG23	2.02	0.59
3:D:65:ARG:HB2	5:F:375:LEU:CA	2.28	0.59
3:D:126:VAL:HG13	3:D:132:TYR:CB	2.31	0.59
3:D:423:ASP:O	3:D:425:GLY:N	2.30	0.59
3:D:481:MET:HG2	3:D:493:ARG:HH21	1.65	0.59
3:D:829:VAL:HG13	8:D:2203:HOH:O	2.03	0.59
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.11	0.59
2:M:8:ARG:HG2	8:M:9832:HOH:O	2.02	0.59
2:M:250:ARG:HH21	2:M:253:ALA:HB1	1.67	0.59
2:M:266:ARG:HD3	2:M:273:GLY:HA3	1.85	0.59
2:M:676:ILE:O	2:M:676:ILE:HG23	2.02	0.59
2:M:691:SER:HB2	2:M:858:MET:HE1	1.83	0.59
3:N:116:LEU:HD23	3:N:468:LEU:HD21	1.84	0.59
3:N:470:LEU:HD22	3:N:499:VAL:HG22	1.84	0.59
3:N:499:VAL:O	3:N:503:LEU:HB2	2.02	0.59
3:N:787:LEU:HD21	3:N:947:ILE:CD1	2.32	0.59
3:N:845:ASN:H	3:N:848:GLU:HG3	1.68	0.59
3:N:1286:THR:HG22	3:N:1287:GLU:N	2.17	0.59
4:O:41:GLU:HB3	4:O:42:PRO:HD3	1.83	0.59
1:A:227:ASN:H	1:A:227:ASN:ND2	2.00	0.59
1:B:176:ARG:NH2	3:D:884:ARG:CZ	2.66	0.59
2:C:19:THR:HG22	2:C:19:THR:O	2.02	0.59
2:C:188:LYS:HE2	2:C:188:LYS:O	2.01	0.59
2:C:437:ARG:NH2	2:C:488:ALA:HA	2.16	0.59
3:D:730:PRO:HA	3:D:733:CYS:SG	2.42	0.59
3:D:897:TRP:HZ3	8:D:2492:HOH:O	1.85	0.59
5:F:195:VAL:HG11	5:F:217:ASN:OD1	2.01	0.59
1:K:96:THR:CB	1:K:143:ARG:HH12	2.15	0.59
2:M:41:ASN:O	2:M:46:ALA:HB2	2.02	0.59
2:M:501:THR:HG22	2:M:513:VAL:CG1	2.33	0.59
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:601:ARG:HH11	3:N:613:ARG:NH2	1.99	0.59
1:A:197:LEU:N	1:A:197:LEU:HD23	2.17	0.59
1:A:227:ASN:HD22	1:A:227:ASN:N	1.97	0.59
1:B:91:ASN:HB3	8:B:9492:HOH:O	2.02	0.59
8:C:9694:HOH:O	3:D:1068:LEU:HD21	2.03	0.59
3:D:456:MET:HG2	3:D:568:ARG:HH11	1.68	0.59
3:D:1101:VAL:HG11	3:D:1427:SER:HB3	1.85	0.59
5:F:163:LEU:HD13	5:F:174:LEU:HG	1.85	0.59
5:F:367:MET:HE2	5:F:367:MET:N	2.18	0.59
2:M:238:LEU:O	2:M:242:LEU:HD22	2.03	0.59
2:M:431:HIS:HD2	2:M:433:THR:OG1	1.85	0.59
2:M:545:ASN:O	2:M:581:THR:HG21	2.03	0.59
2:M:707:ARG:HG3	2:M:826:TYR:CE2	2.38	0.59
2:M:846:LYS:O	3:N:741:ASP:HB3	2.02	0.59
2:M:1020:PRO:O	3:N:622:ARG:HD2	2.03	0.59
3:N:422:ALA:HB1	5:P:178:ARG:HH22	1.68	0.59
3:N:498:VAL:HG11	8:N:9878:HOH:O	2.02	0.59
3:N:820:GLU:HG2	3:N:825:ALA:O	2.03	0.59
5:P:94:LEU:H	5:P:98:GLU:HB2	1.67	0.59
1:A:143:ARG:HD3	1:A:160:ASP:OD2	2.03	0.59
2:C:194:VAL:HG21	2:C:221:LEU:O	2.02	0.59
2:C:371:LYS:O	2:C:372:LEU:HD12	2.02	0.59
2:C:853:LEU:HB3	2:C:858:MET:HE3	1.85	0.59
2:C:858:MET:HB2	2:C:859:PRO:HD2	1.84	0.59
2:C:938:LYS:HE3	8:C:9606:HOH:O	2.03	0.59
3:D:13:ALA:O	3:D:511:TRP:HB3	2.03	0.59
3:D:166:GLN:HG2	3:D:207:PHE:HB2	1.85	0.59
3:D:379:ALA:HB1	8:D:2450:HOH:O	2.02	0.59
3:D:1489:GLN:HE21	3:D:1493:LYS:NZ	2.01	0.59
8:D:9617:HOH:O	5:F:141:VAL:HG21	2.02	0.59
4:E:40:LEU:HD12	4:E:40:LEU:O	2.03	0.59
5:F:132:ARG:HG2	5:F:181:GLU:OE1	2.03	0.59
5:F:267:THR:HA	8:F:9561:HOH:O	2.02	0.59
2:M:183:SER:HB3	2:M:190:LYS:HZ1	1.66	0.59
2:M:567:GLN:HB2	2:M:997:LEU:HD22	1.85	0.59
2:M:1097:LEU:HD21	3:N:103:TRP:HZ3	1.68	0.59
3:N:477:LEU:HB3	3:N:496:LEU:HD12	1.84	0.59
2:C:162:ILE:HG12	2:C:306:THR:HG21	1.84	0.59
2:C:220:GLY:HA3	8:C:9517:HOH:O	2.01	0.59
2:C:254:VAL:HG13	2:C:258:TYR:CE1	2.38	0.59
2:C:537:LYS:CA	2:C:545:ASN:HD21	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:583:LEU:O	2:C:587:VAL:HG23	2.03	0.59
2:C:767:PRO:HG3	8:C:2016:HOH:O	2.02	0.59
2:C:798:GLY:H	2:C:827:VAL:CG1	2.16	0.59
2:C:1032:PHE:CZ	2:C:1040:LEU:HD22	2.38	0.59
2:C:1081:VAL:HB	2:C:1086:ARG:NH2	2.18	0.59
3:D:56:TYR:HB2	8:D:9482:HOH:O	2.02	0.59
3:D:583:ASP:HA	3:D:602:SER:HB2	1.83	0.59
3:D:785:ILE:HG12	3:D:935:LYS:HA	1.85	0.59
3:D:826:PRO:HD3	8:D:9587:HOH:O	2.01	0.59
1:K:50:GLY:O	1:K:146:ARG:HA	2.03	0.59
2:M:242:LEU:HA	8:M:9620:HOH:O	2.02	0.59
2:M:393:GLN:HE21	2:M:409:ARG:NH1	2.00	0.59
3:N:646:LYS:CA	3:N:720:LEU:HD22	2.27	0.59
5:P:398:ARG:HD2	8:P:9476:HOH:O	2.02	0.59
1:A:42:ARG:NH1	2:C:857:ASP:HB3	2.18	0.58
1:A:189:ARG:HH22	1:B:155:LYS:HG2	1.67	0.58
1:B:77:GLU:HB2	3:D:872:ARG:NH2	2.18	0.58
2:C:19:THR:HG21	2:C:124:ASP:O	2.03	0.58
2:C:266:ARG:HG3	2:C:266:ARG:NH1	2.16	0.58
2:C:442:GLU:HG2	2:C:454:SER:HB2	1.84	0.58
2:C:447:ALA:HA	3:D:1085:ALA:HB1	1.84	0.58
2:C:679:PHE:N	8:C:9687:HOH:O	2.36	0.58
2:C:900:ARG:HD2	8:C:9612:HOH:O	2.02	0.58
2:C:902:ILE:HG22	2:C:904:PRO:HD3	1.84	0.58
3:D:416:ALA:H	3:D:417:PRO:CD	2.15	0.58
3:D:502:PHE:CZ	3:D:1452:ILE:HG13	2.38	0.58
3:D:1066:THR:HG23	3:D:1069:GLU:OE1	2.03	0.58
3:D:1460:ILE:HA	8:D:9474:HOH:O	2.03	0.58
1:L:89:PHE:HB3	1:L:94:LEU:HD22	1.85	0.58
2:M:139:GLN:HB3	2:M:334:ARG:CD	2.33	0.58
2:M:610:ARG:HH11	2:M:610:ARG:HG3	1.68	0.58
2:M:613:VAL:HG21	8:M:9608:HOH:O	2.02	0.58
2:M:727:PRO:HB3	8:M:9890:HOH:O	2.03	0.58
2:M:955:PRO:HD3	8:M:9758:HOH:O	2.02	0.58
3:N:699:VAL:H	3:N:756:GLN:NE2	1.97	0.58
1:B:41:ARG:HG3	1:B:41:ARG:HH11	1.68	0.58
2:C:292:ARG:HH11	2:C:299:LYS:HD3	1.68	0.58
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.85	0.58
2:C:524:VAL:HB	8:C:2063:HOH:O	2.02	0.58
2:C:1010:THR:HG21	5:F:341:PRO:HB2	1.84	0.58
2:C:1056:LYS:HD3	3:D:623:VAL:HG22	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:65:ARG:CB	5:F:375:LEU:HA	2.29	0.58
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.32	0.58
3:D:697:GLY:HA3	4:E:59:ASN:OD1	2.01	0.58
3:D:1464:GLU:HA	3:D:1467:ILE:HD12	1.84	0.58
2:M:256:TYR:HB3	8:M:2097:HOH:O	2.01	0.58
2:M:445:GLU:OE2	2:M:560:MET:HG2	2.02	0.58
2:M:909:ALA:HB1	2:M:914:ILE:CD1	2.31	0.58
2:M:1031:ARG:HD3	3:N:620:GLY:O	2.03	0.58
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.38	0.58
2:C:673:LEU:HD23	2:C:867:VAL:HG12	1.84	0.58
3:D:609:GLY:CA	3:D:613:ARG:HB3	2.33	0.58
5:F:272:SER:O	5:F:276:ARG:HG2	2.02	0.58
1:L:132:LEU:HD22	8:L:960:HOH:O	2.02	0.58
2:M:244:PRO:CD	2:M:245:GLY:H	2.16	0.58
2:M:354:GLY:HA3	8:M:2246:HOH:O	2.03	0.58
2:M:545:ASN:OD1	2:M:905:ILE:HD13	2.03	0.58
3:N:186:VAL:HG11	3:N:213:VAL:HB	1.85	0.58
3:N:777:PRO:CG	3:N:915:VAL:HB	2.33	0.58
3:N:813:LEU:HD12	3:N:814:ALA:N	2.18	0.58
3:N:1236:LEU:HD11	3:N:1356:TYR:CE2	2.38	0.58
1:B:78:ILE:HG12	8:B:9503:HOH:O	2.02	0.58
2:C:129:ILE:HG22	2:C:130:ASN:N	2.18	0.58
2:C:174:LEU:HD22	2:C:193:LEU:HD23	1.85	0.58
2:C:218:VAL:O	2:C:221:LEU:HB3	2.02	0.58
2:C:382:ILE:HA	8:C:9515:HOH:O	2.03	0.58
3:D:12:LEU:CD2	3:D:13:ALA:H	2.16	0.58
3:D:1339:LYS:HD2	8:D:2350:HOH:O	2.02	0.58
5:F:310:ILE:HA	8:F:9654:HOH:O	2.03	0.58
5:F:340:SER:O	5:F:342:VAL:N	2.36	0.58
5:F:415:THR:HG21	5:F:417:LYS:NZ	2.18	0.58
1:K:51:THR:HA	1:K:145:ASP:O	2.03	0.58
1:K:89:PHE:HB3	1:K:94:LEU:HD22	1.86	0.58
1:L:6:LEU:C	1:L:8:ALA:H	2.05	0.58
1:L:89:PHE:HB2	1:L:94:LEU:HD22	1.86	0.58
1:L:101:LEU:HD22	1:L:140:MET:CE	2.34	0.58
2:M:226:VAL:HA	8:M:9817:HOH:O	2.03	0.58
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.84	0.58
3:N:196:VAL:HG13	3:N:202:VAL:HG11	1.84	0.58
3:N:558:LEU:HD13	5:P:145:PRO:HA	1.84	0.58
3:N:1148:VAL:HB	3:N:1203:LYS:O	2.04	0.58
3:N:1458:GLU:O	3:N:1460:ILE:HG13	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:40:LEU:HG	4:O:67:GLU:HG2	1.83	0.58
1:B:206:THR:CG2	1:B:209:GLU:H	2.16	0.58
2:C:15:LEU:HD22	2:C:15:LEU:N	2.14	0.58
2:C:102:HIS:HB2	2:C:106:GLY:O	2.04	0.58
2:C:165:LEU:HD12	2:C:166:PRO:N	2.18	0.58
2:C:279:GLU:OE2	2:C:489:THR:HG21	2.03	0.58
3:D:195:VAL:HB	3:D:205:TYR:HB2	1.85	0.58
3:D:379:ALA:HA	8:D:9674:HOH:O	2.02	0.58
3:D:507:ASN:HA	8:D:9897:HOH:O	2.03	0.58
3:D:583:ASP:OD1	3:D:604:THR:HB	2.04	0.58
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.84	0.58
5:F:352:GLU:HG2	8:F:9501:HOH:O	2.03	0.58
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.39	0.58
3:N:1043:GLY:O	3:N:1056:PRO:HB3	2.04	0.58
5:P:411:HIS:CB	5:P:414:ARG:HE	2.16	0.58
1:A:39:PRO:O	1:A:43:ILE:HG12	2.04	0.58
1:A:178:ALA:CB	2:C:864:GLY:H	2.16	0.58
1:A:196:THR:HG21	2:C:934:PHE:CD2	2.39	0.58
2:C:309:TYR:HA	2:C:312:ALA:HB3	1.86	0.58
2:C:637:LEU:HA	2:C:659:PRO:HG3	1.85	0.58
2:C:916:GLU:O	2:C:919:ALA:HB3	2.04	0.58
3:D:112:ILE:HG22	3:D:512:MET:SD	2.43	0.58
3:D:897:TRP:CE2	3:D:902:LEU:HD21	2.38	0.58
1:K:224:TYR:CE1	1:L:9:PRO:HD2	2.39	0.58
1:L:76:VAL:O	1:L:80:LEU:HB2	2.04	0.58
2:M:39:ARG:HG3	2:M:39:ARG:O	2.04	0.58
2:M:73:LEU:HD23	2:M:94:LEU:CB	2.31	0.58
2:M:588:VAL:HG21	2:M:664:GLY:O	2.02	0.58
2:M:720:GLU:HG2	2:M:760:SER:HB3	1.86	0.58
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.33	0.58
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.18	0.58
3:N:212:ARG:HA	8:N:9712:HOH:O	2.04	0.58
5:P:172:ARG:O	5:P:176:ILE:HG13	2.03	0.58
1:A:30:ARG:HH12	1:B:155:LYS:NZ	2.02	0.58
1:B:7:LYS:HE3	1:B:186:LEU:HD13	1.86	0.58
1:B:89:PHE:HB3	1:B:120:VAL:HG22	1.86	0.58
2:C:512:ARG:HD2	2:C:523:ILE:HD11	1.85	0.58
2:C:516:ARG:NH1	3:D:1068:LEU:HD22	2.19	0.58
2:C:742:VAL:HB	8:C:9959:HOH:O	2.03	0.58
2:C:1013:TYR:HE1	2:C:1020:PRO:HG3	1.68	0.58
3:D:761:ILE:CD1	4:E:23:VAL:HG11	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:354:GLY:HA2	8:M:9663:HOH:O	2.02	0.58
2:M:734:LEU:HA	2:M:737:LEU:HD12	1.85	0.58
2:M:744:ARG:HG3	2:M:744:ARG:O	2.02	0.58
3:N:181:ASP:O	3:N:185:VAL:HG23	2.03	0.58
3:N:1065:LEU:HD12	3:N:1069:GLU:OE2	2.04	0.58
1:A:35:THR:HG22	8:A:9594:HOH:O	2.02	0.58
1:B:26:GLU:HB3	1:B:194:LYS:HG3	1.86	0.58
1:B:156:HIS:CD2	1:B:157:GLY:H	2.22	0.58
2:C:49:ARG:HH11	2:C:49:ARG:CB	2.15	0.58
2:C:195:LEU:O	2:C:199:VAL:HG23	2.04	0.58
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.69	0.58
2:C:710:ILE:HB	2:C:790:LEU:CD2	2.32	0.58
2:C:853:LEU:HD23	2:C:858:MET:HE2	1.86	0.58
3:D:1065:LEU:HD12	3:D:1069:GLU:HB3	1.86	0.58
3:D:1388:ARG:O	3:D:1391:GLU:HG2	2.04	0.58
2:M:162:ILE:HD11	2:M:306:THR:HG21	1.86	0.58
2:M:352:ALA:O	2:M:355:VAL:HG12	2.04	0.58
2:M:906:PHE:CG	3:N:1067:VAL:HG22	2.38	0.58
3:N:28:LYS:O	3:N:43:GLY:HA2	2.04	0.58
3:N:651:GLU:HG2	8:N:2376:HOH:O	2.04	0.58
3:N:978:TYR:HE1	3:N:985:ASP:HA	1.69	0.58
3:N:1274:ILE:HD11	3:N:1334:GLN:NE2	2.18	0.58
1:A:108:GLU:O	1:A:110:LYS:HG3	2.04	0.58
2:C:35:PRO:HD3	8:C:9992:HOH:O	2.04	0.58
2:C:331:ARG:HG2	8:C:2153:HOH:O	2.03	0.58
2:C:443:THR:CG2	2:C:449:ILE:HA	2.33	0.58
2:C:896:PHE:CD2	2:C:925:TYR:HB2	2.39	0.58
3:D:135:LEU:HD13	3:D:147:VAL:HG12	1.85	0.58
3:D:828:LYS:HD3	3:D:828:LYS:N	2.19	0.58
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.04	0.58
3:D:1043:GLY:O	3:D:1056:PRO:HB3	2.04	0.58
2:M:607:ASP:HB2	2:M:610:ARG:H	1.69	0.58
2:M:1047:HIS:O	2:M:1051:GLU:HG3	2.03	0.58
3:N:25:GLU:O	3:N:27:GLU:HG2	2.03	0.58
3:N:486:ARG:HH21	3:N:489:ARG:NE	2.02	0.58
3:N:1242:HIS:C	3:N:1269:LYS:HD2	2.24	0.58
5:P:405:LEU:O	5:P:408:LEU:HD22	2.04	0.58
2:C:18:LEU:HD12	2:C:18:LEU:N	2.18	0.58
2:C:549:PHE:CZ	2:C:886:LEU:HB3	2.39	0.58
2:C:647:GLN:HA	8:C:9499:HOH:O	2.04	0.58
3:D:86:ARG:O	3:D:522:PRO:HD2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:422:ALA:N	3:D:427:VAL:HG11	2.17	0.58
2:M:332:ARG:CZ	2:M:464:LEU:HD21	2.34	0.58
2:M:583:LEU:O	2:M:587:VAL:HG23	2.04	0.58
2:M:872:ASN:HB3	8:M:9634:HOH:O	2.04	0.58
2:M:913:GLU:O	2:M:916:GLU:HB3	2.03	0.58
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.85	0.58
3:N:466:LYS:HG3	3:N:510:GLU:HG2	1.85	0.58
3:N:554:LEU:O	3:N:558:LEU:HG	2.03	0.58
3:N:662:GLU:HB2	8:N:9492:HOH:O	2.04	0.58
3:N:704:ARG:NE	3:N:705:ALA:H	2.02	0.58
3:N:888:GLU:HG2	8:N:2229:HOH:O	2.04	0.58
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.39	0.57
2:C:333:ILE:HG12	2:C:410:ILE:HD13	1.86	0.57
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.34	0.57
3:D:825:ALA:HA	8:D:9587:HOH:O	2.03	0.57
2:M:54:ILE:O	2:M:54:ILE:HG23	2.03	0.57
2:M:69:LEU:HD13	2:M:97:ARG:CZ	2.34	0.57
2:M:367:LEU:O	2:M:371:LYS:HB3	2.04	0.57
2:M:1107:ASN:HB3	8:M:9586:HOH:O	2.02	0.57
8:M:2233:HOH:O	3:N:532:GLY:HA3	2.02	0.57
3:N:12:LEU:HB2	8:N:9529:HOH:O	2.02	0.57
3:N:502:PHE:CE2	3:N:1452:ILE:HG13	2.39	0.57
3:N:609:GLY:CA	3:N:613:ARG:HB3	2.34	0.57
3:N:704:ARG:CD	3:N:705:ALA:H	2.17	0.57
3:N:1159:ARG:O	3:N:1159:ARG:HG3	2.04	0.57
3:N:1243:THR:CB	3:N:1253:THR:HB	2.34	0.57
1:B:208:LEU:HB2	8:B:9488:HOH:O	2.04	0.57
2:C:605:LYS:HB2	2:C:610:ARG:HH12	1.68	0.57
2:C:762:LYS:HB2	2:C:762:LYS:HZ2	1.68	0.57
3:D:68:PHE:CZ	5:F:375:LEU:HD23	2.39	0.57
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.34	0.57
3:D:223:LEU:CB	8:D:9844:HOH:O	2.51	0.57
3:D:1478:SER:HB2	8:D:9761:HOH:O	2.03	0.57
2:M:290:LEU:HD23	2:M:290:LEU:H	1.69	0.57
2:M:1085:PHE:HE1	2:M:1111:ILE:HG21	1.69	0.57
3:N:153:LEU:HD12	3:N:158:TYR:HB2	1.86	0.57
3:N:177:ALA:HB1	3:N:199:LEU:CD1	2.34	0.57
3:N:473:LEU:HD11	8:N:9502:HOH:O	2.02	0.57
3:N:1155:VAL:CG1	3:N:1183:ILE:HD11	2.35	0.57
3:N:1197:ARG:CD	3:N:1396:GLU:HB2	2.33	0.57
3:N:1267:ARG:NH2	3:N:1271:LYS:HD2	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1354:LYS:HE3	8:N:9859:HOH:O	2.04	0.57
5:P:136:LEU:HD12	5:P:137:GLY:N	2.19	0.57
5:P:371:LEU:HD12	8:P:9520:HOH:O	2.04	0.57
1:B:74:ASP:HB2	8:B:9510:HOH:O	2.04	0.57
1:B:115:LEU:HD12	1:B:115:LEU:O	2.03	0.57
2:C:285:LEU:HD11	2:C:290:LEU:HA	1.86	0.57
2:C:342:ASP:O	2:C:346:VAL:HG23	2.04	0.57
2:C:913:GLU:HA	8:C:9822:HOH:O	2.04	0.57
2:C:1106:ASP:CG	3:D:1456:LYS:HD3	2.24	0.57
3:D:18:ILE:HD12	3:D:518:PRO:CG	2.33	0.57
3:D:95:LEU:HA	3:D:551:ASN:HD21	1.68	0.57
3:D:817:GLU:HG3	3:D:839:LEU:HD13	1.85	0.57
5:F:373:LYS:HB3	8:F:9489:HOH:O	2.03	0.57
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.86	0.57
2:M:462:ASP:CG	2:M:463:GLU:N	2.57	0.57
2:M:627:ARG:HD2	8:M:2249:HOH:O	2.03	0.57
3:N:150:ARG:NH1	3:N:464:LEU:HD22	2.20	0.57
3:N:508:ARG:CG	3:N:509:PRO:HD2	2.34	0.57
3:N:609:GLY:HA2	3:N:613:ARG:HB3	1.86	0.57
3:N:895:VAL:HG23	8:N:2399:HOH:O	2.05	0.57
5:P:310:ILE:HA	8:P:9658:HOH:O	2.04	0.57
1:A:18:ARG:HH12	1:A:88:ARG:NH2	2.02	0.57
1:A:26:GLU:HB3	1:A:194:LYS:HG3	1.85	0.57
2:C:176:VAL:C	2:C:178:PRO:HD3	2.24	0.57
2:C:359:MET:HB2	8:C:9554:HOH:O	2.03	0.57
2:C:370:ALA:HB3	8:C:9960:HOH:O	2.02	0.57
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.34	0.57
3:D:864:VAL:HG12	3:D:865:THR:H	1.69	0.57
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.87	0.57
1:K:89:PHE:CB	1:K:94:LEU:HD22	2.33	0.57
2:M:101:ILE:HG22	2:M:102:HIS:N	2.19	0.57
3:N:29:PRO:HB3	3:N:545:ARG:HG2	1.86	0.57
3:N:486:ARG:O	3:N:489:ARG:HG2	2.04	0.57
3:N:1437:ALA:HB3	3:N:1446:VAL:HG11	1.86	0.57
1:A:178:ALA:HB2	2:C:864:GLY:H	1.69	0.57
1:B:121:GLU:HB2	8:B:9495:HOH:O	2.05	0.57
2:C:431:HIS:H	2:C:434:HIS:CE1	2.22	0.57
2:C:584:GLU:CD	2:C:584:GLU:H	2.08	0.57
2:C:589:ARG:HB2	2:C:589:ARG:HH11	1.69	0.57
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.27	0.57
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.85	0.57
3:D:861:GLN:HE21	3:D:861:GLN:N	1.92	0.57
3:D:984:THR:HG22	3:D:987:GLU:CD	2.24	0.57
3:D:1092:GLY:O	3:D:1096:ARG:HB2	2.03	0.57
3:D:1095:THR:O	3:D:1099:VAL:HG23	2.05	0.57
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	1.85	0.57
4:E:34:GLY:HA3	8:E:9401:HOH:O	2.03	0.57
5:F:94:LEU:HD12	5:F:97:GLU:N	2.20	0.57
5:F:351:SER:HA	8:F:9585:HOH:O	2.04	0.57
1:K:104:GLU:HG2	1:K:137:ARG:HD2	1.86	0.57
1:K:132:LEU:HD11	1:K:138:LEU:HD22	1.86	0.57
2:M:36:PRO:HA	8:M:9498:HOH:O	2.03	0.57
2:M:193:LEU:O	2:M:193:LEU:HD13	2.05	0.57
2:M:580:MET:SD	2:M:584:GLU:HG3	2.45	0.57
2:M:1008:ARG:NH2	2:M:1020:PRO:HB3	2.20	0.57
3:N:75:ARG:HG2	8:N:2006:HOH:O	2.05	0.57
3:N:1242:HIS:NE2	3:N:1266:ARG:HD2	2.19	0.57
2:C:183:SER:HB3	2:C:190:LYS:HD3	1.87	0.57
2:C:1007:ALA:HB1	3:D:652:LEU:HD13	1.85	0.57
3:D:52:PRO:HG2	3:D:80:VAL:HB	1.86	0.57
3:D:171:LEU:CB	3:D:390:PRO:HA	2.33	0.57
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.34	0.57
3:D:972:LEU:HD23	3:D:972:LEU:C	2.24	0.57
3:D:1373:ARG:HG2	3:D:1374:GLN:HE21	1.68	0.57
5:F:367:MET:SD	5:F:370:LYS:HD3	2.44	0.57
1:K:27:PRO:HG3	1:K:186:LEU:HD13	1.85	0.57
1:L:52:ALA:HB2	1:L:170:VAL:O	2.04	0.57
2:M:364:GLU:HA	8:M:9849:HOH:O	2.03	0.57
2:M:553:ASP:OD2	2:M:881:ASN:HB2	2.04	0.57
3:N:112:ILE:HD13	3:N:461:ILE:HG21	1.86	0.57
3:N:135:LEU:HD21	3:N:452:ILE:CD1	2.35	0.57
3:N:185:VAL:HB	8:N:2354:HOH:O	2.03	0.57
3:N:534:ARG:HG2	8:N:9604:HOH:O	2.04	0.57
3:N:822:ALA:HB1	8:N:9817:HOH:O	2.04	0.57
3:N:1041:LEU:O	3:N:1041:LEU:HD23	2.05	0.57
3:N:1173:LEU:HG	8:N:9906:HOH:O	2.04	0.57
3:N:1440:PHE:HB2	3:N:1442:ASN:ND2	2.19	0.57
1:B:77:GLU:HB2	3:D:872:ARG:HH21	1.70	0.57
1:B:176:ARG:NH2	3:D:884:ARG:NE	2.53	0.57
2:C:260:LEU:HG	2:C:261:ILE:HG12	1.86	0.57
2:C:905:ILE:HG22	2:C:906:PHE:N	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:440:VAL:HA	8:D:2292:HOH:O	2.04	0.57
4:E:59:ASN:HB2	8:E:9410:HOH:O	2.04	0.57
5:F:266:GLU:HA	5:F:269:ASN:HD22	1.69	0.57
1:K:119:ASP:HB3	8:K:742:HOH:O	2.05	0.57
3:N:112:ILE:HD11	3:N:124:GLU:OE1	2.04	0.57
3:N:550:ARG:NE	3:N:573:MET:HB3	2.20	0.57
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.05	0.57
3:N:1320:GLU:O	3:N:1323:GLN:HB2	2.04	0.57
2:C:328:LEU:CD1	2:C:433:THR:HB	2.35	0.57
2:C:605:LYS:HD3	2:C:610:ARG:HH22	1.69	0.57
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.34	0.57
2:C:770:GLU:HG2	3:D:65:ARG:NH2	2.09	0.57
3:D:904:VAL:HG12	3:D:905:PRO:HD2	1.85	0.57
3:D:1489:GLN:HG3	8:D:2185:HOH:O	2.04	0.57
3:D:1498:ALA:HB1	8:E:9390:HOH:O	2.04	0.57
5:F:74:LYS:HB2	8:F:9509:HOH:O	2.04	0.57
1:K:116:PRO:HD2	8:K:5139:HOH:O	2.03	0.57
1:K:162:ILE:HG13	1:K:163:ASN:N	2.19	0.57
2:M:183:SER:HB3	2:M:190:LYS:HZ3	1.70	0.57
2:M:270:GLY:H	2:M:288:ARG:NH2	2.03	0.57
2:M:555:ALA:HA	3:N:1070:TYR:OH	2.05	0.57
2:M:585:GLU:HG3	2:M:665:PHE:CE2	2.39	0.57
2:M:740:GLU:HB3	8:M:9868:HOH:O	2.05	0.57
3:N:177:ALA:HB1	3:N:199:LEU:CD2	2.33	0.57
3:N:441:ARG:O	3:N:443:VAL:N	2.38	0.57
3:N:1149:LEU:HD12	3:N:1161:GLU:O	2.05	0.57
3:N:1205:TYR:O	3:N:1366:LYS:HD3	2.04	0.57
2:C:571:LEU:CD2	2:C:700:TYR:HA	2.35	0.57
3:D:7:LYS:HD3	3:D:1458:GLU:OE1	2.05	0.57
3:D:658:LEU:HD11	3:D:674:ARG:NH1	2.19	0.57
3:D:1197:ARG:CD	3:D:1396:GLU:HB2	2.35	0.57
3:D:1500:LYS:O	3:D:1503:VAL:HG23	2.05	0.57
5:F:166:LEU:O	5:F:171:LYS:HB2	2.05	0.57
1:L:23:PHE:O	1:L:196:THR:HA	2.05	0.57
2:M:436:GLY:HA2	2:M:538:GLN:O	2.05	0.57
2:M:710:ILE:HB	2:M:790:LEU:HD23	1.85	0.57
3:N:75:ARG:HG3	3:N:75:ARG:NH1	2.20	0.57
3:N:205:TYR:HB3	3:N:393:ILE:HD13	1.85	0.57
3:N:1045:MET:SD	3:N:1073:SER:HA	2.44	0.57
5:P:331:ASP:HB2	8:P:9474:HOH:O	2.05	0.57
1:A:88:ARG:HA	8:A:9600:HOH:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.87	0.57
1:B:127:LEU:HD12	1:B:128:HIS:N	2.20	0.57
2:C:430:VAL:HG11	8:D:9725:HOH:O	2.05	0.57
2:C:495:THR:HG21	2:C:524:VAL:HG21	1.87	0.57
3:D:58:CYS:SG	3:D:59:ALA:N	2.78	0.57
3:D:616:GLN:HA	3:D:619:LEU:HB3	1.87	0.57
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.34	0.57
3:D:1377:LYS:HG2	3:D:1378:TYR:CE1	2.39	0.57
3:D:1471:LEU:HA	8:D:2065:HOH:O	2.04	0.57
2:M:100:LEU:HD23	2:M:372:LEU:CD1	2.28	0.57
2:M:1101:THR:C	2:M:1102:LEU:HD12	2.25	0.57
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.35	0.57
5:P:140:ARG:HG3	5:P:141:VAL:H	1.69	0.57
2:C:176:VAL:HB	8:C:9957:HOH:O	2.04	0.56
2:C:216:GLU:HG2	2:C:217:LEU:HD23	1.87	0.56
2:C:352:ALA:O	2:C:356:ARG:HG3	2.05	0.56
2:C:1016:ILE:HG21	5:F:317:LEU:HD21	1.87	0.56
3:D:1500:LYS:HB3	8:D:2094:HOH:O	2.05	0.56
1:K:46:SER:HB3	2:M:856:GLU:CD	2.25	0.56
1:K:186:LEU:HB2	1:K:192:LEU:CD1	2.35	0.56
1:K:201:THR:HG22	1:K:203:GLY:H	1.69	0.56
2:M:20:GLU:HG3	2:M:460:ARG:HH21	1.69	0.56
2:M:710:ILE:HB	2:M:790:LEU:CD2	2.35	0.56
2:M:717:LEU:HB3	2:M:761:PHE:HB2	1.87	0.56
2:M:893:ALA:O	2:M:897:LEU:HB2	2.05	0.56
3:N:574:LEU:O	3:N:578:VAL:HG23	2.05	0.56
3:N:704:ARG:HH21	3:N:706:PRO:HD3	1.69	0.56
3:N:1083:ASP:OD1	3:N:1238:MET:HB3	2.05	0.56
5:P:94:LEU:HD22	5:P:95:THR:H	1.69	0.56
5:P:393:THR:HG22	5:P:394:ARG:N	2.19	0.56
1:A:49:PRO:HA	1:A:148:VAL:HG22	1.88	0.56
1:A:177:VAL:O	2:C:864:GLY:HA3	2.04	0.56
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.38	0.56
2:C:273:GLY:HA2	2:C:276:LYS:HD3	1.87	0.56
2:C:573:ARG:NH1	8:C:2347:HOH:O	2.38	0.56
3:D:127:LEU:CD1	3:D:457:GLY:H	2.17	0.56
3:D:658:LEU:HA	3:D:661:MET:HG3	1.86	0.56
3:D:1324:PRO:HB3	8:D:2070:HOH:O	2.04	0.56
5:F:88:ILE:HD13	5:F:193:ARG:CB	2.35	0.56
5:F:185:GLN:O	5:F:189:GLU:HG3	2.05	0.56
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.40	0.56
1:L:50:GLY:HA3	1:L:171:PHE:O	2.05	0.56
2:M:108:ILE:HB	2:M:368:THR:HG1	1.66	0.56
2:M:918:LEU:HB3	2:M:968:LEU:HD23	1.87	0.56
2:M:1043:TYR:CD2	3:N:763:MET:HA	2.39	0.56
3:N:41:ARG:O	8:N:9493:HOH:O	2.18	0.56
3:N:617:ASN:O	3:N:619:LEU:N	2.38	0.56
3:N:683:ILE:HG22	3:N:687:VAL:HG21	1.86	0.56
3:N:890:VAL:HG12	3:N:926:LYS:CG	2.33	0.56
5:P:358:LEU:HD11	5:P:370:LYS:HD2	1.87	0.56
5:P:411:HIS:HB2	5:P:414:ARG:HE	1.70	0.56
1:B:65:PHE:HB2	8:B:9631:HOH:O	2.04	0.56
1:B:108:GLU:O	1:B:110:LYS:HG3	2.04	0.56
2:C:250:ARG:HH22	2:C:254:VAL:HG23	1.70	0.56
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.86	0.56
2:C:958:THR:HB	8:C:2248:HOH:O	2.05	0.56
2:C:1015:LEU:HB3	2:C:1016:ILE:HD13	1.87	0.56
2:C:1115:LEU:CD2	3:D:85:VAL:HA	2.35	0.56
3:D:502:PHE:CE2	3:D:1452:ILE:HG13	2.40	0.56
3:D:609:GLY:HA2	3:D:613:ARG:HB3	1.87	0.56
3:D:897:TRP:CZ2	3:D:902:LEU:HD11	2.40	0.56
3:D:957:PRO:HG3	8:D:9477:HOH:O	2.04	0.56
3:D:1416:ALA:HA	8:D:9707:HOH:O	2.05	0.56
3:D:1422:MET:HE2	3:D:1427:SER:HA	1.87	0.56
4:E:90:GLU:HG2	8:E:9383:HOH:O	2.04	0.56
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.35	0.56
5:F:282:LEU:HB3	5:F:284:ARG:HB2	1.87	0.56
5:F:393:THR:CG2	5:F:394:ARG:H	2.18	0.56
5:F:394:ARG:NH1	8:F:9729:HOH:O	2.37	0.56
1:K:29:GLU:CA	8:K:1204:HOH:O	2.53	0.56
2:M:401:LEU:HD13	2:M:587:VAL:HG11	1.87	0.56
2:M:841:ASN:ND2	2:M:843:HIS:H	2.03	0.56
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.88	0.56
2:M:1056:LYS:HE2	3:N:623:VAL:HG13	1.87	0.56
3:N:39:PRO:HB3	3:N:45:PHE:C	2.25	0.56
3:N:46:ASP:N	8:N:9483:HOH:O	2.37	0.56
3:N:770:LEU:HD11	3:N:919:PHE:CG	2.40	0.56
3:N:829:VAL:HG13	8:N:9503:HOH:O	2.06	0.56
3:N:879:ARG:HD2	3:N:902:LEU:O	2.05	0.56
3:N:1320:GLU:HG2	8:N:9694:HOH:O	2.05	0.56
4:O:51:LEU:HD12	4:O:52:GLU:N	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:354:LEU:HG	8:P:9633:HOH:O	2.06	0.56
5:P:413:SER:OG	5:P:419:ARG:NH2	2.32	0.56
1:A:123:MET:O	1:A:125:PRO:HD3	2.05	0.56
2:C:141:HIS:CE1	2:C:332:ARG:HD3	2.41	0.56
2:C:918:LEU:HD23	2:C:967:PHE:O	2.05	0.56
2:C:1081:VAL:HB	2:C:1086:ARG:NE	2.20	0.56
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.35	0.56
3:D:162:ARG:HA	8:D:9476:HOH:O	2.05	0.56
3:D:214:GLU:CB	3:D:390:PRO:HD2	2.35	0.56
3:D:400:VAL:HG22	3:D:441:ARG:HG2	1.87	0.56
3:D:1076:GLY:O	3:D:1079:LYS:HG2	2.06	0.56
3:D:1101:VAL:HG13	3:D:1427:SER:HB3	1.85	0.56
2:M:762:LYS:HZ3	2:M:784:ASP:C	2.09	0.56
2:M:1071:ILE:CG2	3:N:670:VAL:HG21	2.35	0.56
3:N:162:ARG:HE	3:N:434:ARG:HH21	1.52	0.56
3:N:1133:ARG:HG2	3:N:1134:LEU:O	2.05	0.56
5:P:81:VAL:HG13	8:P:9754:HOH:O	2.05	0.56
5:P:124:PRO:HB3	8:P:9525:HOH:O	2.04	0.56
2:C:1:MET:SD	2:C:900:ARG:HD3	2.44	0.56
2:C:139:GLN:HA	2:C:411:SER:O	2.05	0.56
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.86	0.56
3:D:1267:ARG:HH21	3:D:1271:LYS:HD2	1.70	0.56
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.05	0.56
4:E:41:GLU:CA	4:E:45:ARG:HG3	2.35	0.56
5:F:101:GLU:O	5:F:105:LYS:HG3	2.06	0.56
5:F:368:VAL:O	5:F:372:ARG:HB2	2.05	0.56
1:L:156:HIS:CD2	1:L:157:GLY:H	2.19	0.56
2:M:441:VAL:HG22	2:M:559:LEU:HA	1.87	0.56
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.86	0.56
3:N:89:ARG:NE	8:N:9574:HOH:O	2.38	0.56
3:N:172:PRO:HD3	8:N:9638:HOH:O	2.05	0.56
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.87	0.56
3:N:613:ARG:HA	8:P:9750:HOH:O	2.06	0.56
3:N:853:VAL:HG13	3:N:858:VAL:O	2.06	0.56
3:N:1041:LEU:HD12	3:N:1058:ARG:HA	1.87	0.56
4:O:48:MET:CB	4:O:54:LEU:HB2	2.36	0.56
5:P:270:LYS:NZ	8:P:9668:HOH:O	2.37	0.56
2:C:182:VAL:HG22	8:C:9517:HOH:O	2.05	0.56
2:C:710:ILE:CD1	2:C:758:ARG:HE	2.19	0.56
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.88	0.56
3:D:650:LEU:HD12	3:D:657:LEU:CD2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:708:LEU:HD12	3:D:1231:GLU:HG2	1.87	0.56
3:D:871:LYS:HB3	3:D:873:LEU:HG	1.87	0.56
3:D:916:TYR:HE2	3:D:920:LEU:HD13	1.70	0.56
5:F:415:THR:HG21	5:F:417:LYS:HZ1	1.71	0.56
1:L:92:PRO:HD3	8:L:879:HOH:O	2.04	0.56
2:M:571:LEU:HD23	2:M:700:TYR:HA	1.86	0.56
2:M:685:GLU:N	8:M:9693:HOH:O	2.38	0.56
2:M:719:PRO:HB3	2:M:820:ARG:NE	2.21	0.56
3:N:631:ILE:HG21	3:N:745:MET:SD	2.46	0.56
3:N:706:PRO:HG2	8:N:2226:HOH:O	2.04	0.56
3:N:709:HIS:CD2	3:N:711:LEU:HB2	2.41	0.56
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.88	0.56
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	2.06	0.56
3:N:1432:LYS:HD2	3:N:1433:SER:H	1.70	0.56
5:P:367:MET:HE2	5:P:371:LEU:HD11	1.87	0.56
5:P:376:ILE:HG22	5:P:377:ASP:HB2	1.87	0.56
1:A:209:GLU:HA	8:A:9590:HOH:O	2.05	0.56
1:A:219:ARG:HH12	1:B:219:ARG:CD	2.14	0.56
2:C:72:ARG:NH1	2:C:95:TYR:HE1	2.03	0.56
3:D:12:LEU:HD11	3:D:104:PHE:HE1	1.71	0.56
3:D:1195:GLN:HA	8:D:9914:HOH:O	2.05	0.56
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.06	0.56
3:D:1442:ASN:HA	8:D:9499:HOH:O	2.04	0.56
5:F:364:ARG:HB2	5:F:365:GLU:OE1	2.06	0.56
1:L:98:THR:HB	8:L:1011:HOH:O	2.04	0.56
2:M:503:LEU:HD13	2:M:507:ARG:O	2.06	0.56
2:M:833:LEU:HD13	2:M:996:LYS:HD2	1.86	0.56
2:M:979:THR:HG23	2:M:981:GLU:H	1.71	0.56
2:M:1004:LYS:HE2	2:M:1027:PHE:CE1	2.40	0.56
3:N:12:LEU:HD21	3:N:104:PHE:CZ	2.40	0.56
3:N:42:ASP:O	3:N:46:ASP:HB2	2.06	0.56
3:N:775:GLY:HA2	8:N:9633:HOH:O	2.04	0.56
5:P:398:ARG:HD3	5:P:399:GLN:N	2.20	0.56
1:A:1:MET:O	1:A:6:LEU:HD22	2.05	0.56
1:B:23:PHE:O	1:B:196:THR:HA	2.06	0.56
1:B:101:LEU:HD21	8:B:9640:HOH:O	2.05	0.56
3:D:684:LYS:HG3	8:D:9823:HOH:O	2.06	0.56
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.25	0.56
3:D:1266:ARG:HA	8:D:2318:HOH:O	2.06	0.56
3:D:1412:LYS:HB3	8:D:9962:HOH:O	2.05	0.56
1:L:91:ASN:HB2	1:L:92:PRO:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:115:LEU:HD12	1:L:115:LEU:O	2.04	0.56
1:L:166:PRO:HB2	8:L:705:HOH:O	2.04	0.56
2:M:159:ILE:HG21	2:M:175:GLU:OE1	2.05	0.56
3:N:483:HIS:HB2	3:N:484:PRO:CD	2.34	0.56
3:N:565:ILE:H	3:N:565:ILE:CD1	2.11	0.56
3:N:1115:THR:HG22	3:N:1151:ARG:HH21	1.71	0.56
2:C:14:PRO:HG3	8:C:9667:HOH:O	2.06	0.56
2:C:31:GLN:HB2	8:C:9887:HOH:O	2.05	0.56
2:C:141:HIS:O	2:C:331:ARG:HA	2.05	0.56
2:C:677:MET:HB3	2:C:987:ILE:HD13	1.88	0.56
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.87	0.56
2:C:897:LEU:HB3	2:C:899:GLN:NE2	2.20	0.56
3:D:138:LYS:H	3:D:138:LYS:HD2	1.70	0.56
3:D:583:ASP:CG	3:D:604:THR:HB	2.26	0.56
5:F:413:SER:O	5:F:416:ARG:HG2	2.06	0.56
1:L:211:LEU:O	1:L:215:VAL:HG13	2.06	0.56
2:M:43:GLY:HA2	2:M:341:THR:HG21	1.87	0.56
2:M:97:ARG:HH21	2:M:109:LYS:HD2	1.71	0.56
2:M:102:HIS:HB2	2:M:106:GLY:O	2.05	0.56
2:M:250:ARG:NE	2:M:253:ALA:HB1	2.21	0.56
2:M:265:ARG:HE	2:M:267:TYR:HA	1.69	0.56
2:M:585:GLU:O	2:M:588:VAL:HG22	2.06	0.56
3:N:863:VAL:HG12	8:N:9933:HOH:O	2.06	0.56
3:N:1049:SER:HB2	8:N:2290:HOH:O	2.06	0.56
3:N:1258:ARG:NH2	3:N:1262:LEU:HD11	2.21	0.56
4:O:51:LEU:HG	4:O:53:GLY:N	2.16	0.56
5:P:420:ASP:OD2	5:P:420:ASP:N	2.35	0.56
1:B:178:ALA:HB3	1:B:198:ARG:HB2	1.87	0.56
2:C:516:ARG:NH1	2:C:521:PRO:HB3	2.21	0.56
2:C:1060:ILE:HG12	2:C:1063:ARG:NH2	2.20	0.56
2:C:1067:TYR:CB	5:F:341:PRO:HB3	2.36	0.56
3:D:43:GLY:N	8:D:2541:HOH:O	2.39	0.56
3:D:168:THR:HG22	3:D:170:PRO:HD3	1.87	0.56
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.87	0.56
3:D:1042:ARG:HH11	3:D:1065:LEU:HD22	1.71	0.56
3:D:1149:LEU:HG	3:D:1166:LEU:HD22	1.88	0.56
3:D:1374:GLN:HA	8:D:2457:HOH:O	2.05	0.56
3:D:1440:PHE:HB2	3:D:1442:ASN:HD21	1.70	0.56
4:E:68:LEU:HD13	4:E:73:LEU:HD12	1.87	0.56
5:F:220:LEU:HB2	5:F:243:ILE:HD11	1.88	0.56
5:F:419:ARG:HG3	5:F:420:ASP:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:123:MET:HB3	8:K:4466:HOH:O	2.05	0.56
1:K:206:THR:CG2	1:K:209:GLU:HG3	2.35	0.56
2:M:69:LEU:HD12	2:M:97:ARG:HB3	1.87	0.56
2:M:283:ILE:HG22	2:M:284:ARG:CG	2.35	0.56
2:M:448:ASN:HB2	8:M:9510:HOH:O	2.05	0.56
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	1.88	0.56
3:N:131:LYS:O	3:N:133:ILE:HG12	2.05	0.56
3:N:182:GLY:O	3:N:186:VAL:HB	2.06	0.56
3:N:642:CYS:HB3	3:N:716:PHE:CD2	2.40	0.56
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.05	0.56
3:N:1098:LEU:O	3:N:1102:THR:HB	2.06	0.56
4:O:84:ARG:HG2	8:O:1862:HOH:O	2.04	0.56
5:P:376:ILE:HG22	5:P:377:ASP:N	2.20	0.56
1:A:1:MET:O	1:A:6:LEU:CB	2.45	0.55
1:B:123:MET:O	1:B:125:PRO:HD3	2.06	0.55
2:C:89:THR:HG23	2:C:129:ILE:HA	1.86	0.55
2:C:133:ASP:N	2:C:632:ASN:HD21	2.04	0.55
2:C:250:ARG:HB3	2:C:253:ALA:HB3	1.87	0.55
2:C:396:ASP:OD1	2:C:402:SER:HB3	2.06	0.55
2:C:704:HIS:CD2	2:C:831:ARG:HH22	2.23	0.55
4:E:54:LEU:HD12	4:E:58:PRO:HB2	1.88	0.55
5:F:195:VAL:HG22	5:F:243:ILE:HD11	1.88	0.55
2:M:218:VAL:O	2:M:221:LEU:HB3	2.05	0.55
2:M:612:VAL:HG22	2:M:622:GLU:HA	1.87	0.55
2:M:700:TYR:N	8:M:2053:HOH:O	2.38	0.55
2:M:1052:MET:SD	2:M:1056:LYS:HD3	2.46	0.55
3:N:111:LYS:HE2	8:N:9878:HOH:O	2.06	0.55
3:N:1209:LEU:HD13	3:N:1216:SER:N	2.14	0.55
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.36	0.55
5:P:137:GLY:HA2	5:P:140:ARG:NH2	2.21	0.55
1:A:128:HIS:HB2	8:A:9598:HOH:O	2.06	0.55
2:C:193:LEU:HD13	2:C:193:LEU:O	2.06	0.55
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.87	0.55
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.69	0.55
3:D:25:GLU:O	3:D:27:GLU:HG2	2.06	0.55
3:D:28:LYS:N	8:D:2541:HOH:O	2.39	0.55
3:D:951:ILE:HG23	3:D:1062:ARG:HH21	1.71	0.55
3:D:1146:GLY:HA3	3:D:1207:TYR:CB	2.34	0.55
4:E:17:TYR:O	4:E:21:VAL:HG23	2.05	0.55
1:K:42:ARG:HG2	1:K:42:ARG:NH1	2.17	0.55
1:K:96:THR:HB	1:K:143:ARG:HH12	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:102:LYS:HB2	1:L:139:ASN:OD1	2.06	0.55
2:M:280:LYS:HB3	8:M:9645:HOH:O	2.05	0.55
2:M:474:VAL:HG13	2:M:530:GLU:C	2.26	0.55
2:M:567:GLN:CB	2:M:997:LEU:HD22	2.36	0.55
3:N:32:ILE:HD12	3:N:527:MET:CG	2.34	0.55
3:N:416:ALA:H	3:N:417:PRO:CD	2.19	0.55
3:N:562:ALA:CB	3:N:567:ILE:HD11	2.32	0.55
3:N:912:LYS:HB3	3:N:912:LYS:NZ	2.21	0.55
3:N:1236:LEU:HD21	3:N:1356:TYR:CD2	2.40	0.55
5:P:138:SER:H	5:P:140:ARG:CZ	2.19	0.55
1:A:50:GLY:O	1:A:146:ARG:HA	2.07	0.55
1:A:195:LEU:HD11	1:A:197:LEU:HD22	1.87	0.55
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.87	0.55
2:C:1016:ILE:HD12	5:F:317:LEU:HD11	1.88	0.55
3:D:667:ALA:HB2	8:D:9511:HOH:O	2.05	0.55
3:D:803:GLY:HA2	8:D:9895:HOH:O	2.06	0.55
3:D:1314:LYS:HZ3	3:D:1317:ASP:HB2	1.71	0.55
5:F:94:LEU:H	5:F:98:GLU:HB2	1.71	0.55
5:F:376:ILE:HG22	5:F:377:ASP:N	2.20	0.55
2:M:672:VAL:HG23	2:M:868:ASP:OD2	2.06	0.55
2:M:719:PRO:HB3	2:M:820:ARG:HE	1.70	0.55
2:M:815:LEU:HD21	2:M:821:GLU:HA	1.88	0.55
8:M:9602:HOH:O	3:N:618:LEU:HB2	2.06	0.55
3:N:191:LEU:HD13	3:N:195:VAL:HG11	1.87	0.55
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.36	0.55
8:N:2195:HOH:O	5:P:90:GLN:HG2	2.05	0.55
5:P:339:PRO:HB3	5:P:343:ASP:HB2	1.87	0.55
1:A:137:ARG:HD3	8:A:9486:HOH:O	2.06	0.55
2:C:16:PRO:O	2:C:18:LEU:HD12	2.07	0.55
2:C:759:THR:HB	2:C:785:VAL:HG11	1.89	0.55
2:C:858:MET:HB2	2:C:859:PRO:CD	2.36	0.55
2:C:1090:LYS:NZ	3:D:90:MET:HG3	2.21	0.55
3:D:114:THR:O	3:D:495:ARG:HG3	2.06	0.55
3:D:679:ARG:HH12	3:D:681:ARG:HD2	1.70	0.55
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.71	0.55
4:E:86:GLN:HB3	8:E:9362:HOH:O	2.06	0.55
5:F:160:ASP:OD2	5:F:178:ARG:NH2	2.39	0.55
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.70	0.55
1:L:149:GLY:N	8:L:5023:HOH:O	2.40	0.55
2:M:16:PRO:O	2:M:18:LEU:HD12	2.06	0.55
2:M:229:MET:HA	8:M:2154:HOH:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1103:ASP:CG	2:M:1104:GLU:H	2.07	0.55
3:N:99:ALA:HB1	3:N:575:GLN:OE1	2.06	0.55
3:N:221:ALA:HA	8:N:9545:HOH:O	2.05	0.55
3:N:567:ILE:HG22	3:N:571:LYS:NZ	2.22	0.55
3:N:858:VAL:HG12	3:N:859:ASP:O	2.06	0.55
3:N:1353:GLN:NE2	3:N:1357:ARG:HE	2.03	0.55
3:N:1472:ILE:CG2	3:N:1475:GLY:H	2.19	0.55
3:N:1490:LYS:HZ1	4:O:39:VAL:HA	1.70	0.55
5:P:282:LEU:HD12	5:P:284:ARG:CD	2.36	0.55
5:P:361:LEU:HD12	5:P:366:ALA:HB2	1.88	0.55
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.89	0.55
2:C:326:ASP:HA	2:C:331:ARG:HD3	1.88	0.55
2:C:774:LEU:HD13	2:C:774:LEU:C	2.27	0.55
2:C:889:HIS:HB2	8:C:9674:HOH:O	2.07	0.55
3:D:793:THR:HG22	3:D:879:ARG:HA	1.88	0.55
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.88	0.55
3:D:1314:LYS:HZ1	3:D:1317:ASP:HB2	1.71	0.55
4:E:45:ARG:HG2	8:E:9370:HOH:O	2.07	0.55
5:F:78:SER:HB2	5:F:82:ARG:NH2	2.21	0.55
5:F:128:ARG:HD2	8:F:9482:HOH:O	2.06	0.55
5:F:361:LEU:CD1	5:F:404:ALA:HB1	2.37	0.55
2:M:127:PHE:O	2:M:133:ASP:HA	2.07	0.55
2:M:721:ARG:HD2	8:M:9788:HOH:O	2.06	0.55
2:M:722:ILE:O	2:M:722:ILE:HD13	2.06	0.55
3:N:29:PRO:HG2	3:N:549:ASN:ND2	2.20	0.55
3:N:133:ILE:HG23	3:N:456:MET:SD	2.46	0.55
3:N:148:GLU:CB	3:N:151:GLN:HB2	2.33	0.55
3:N:554:LEU:HD12	3:N:558:LEU:HD11	1.89	0.55
3:N:649:ALA:CB	3:N:720:LEU:HD21	2.36	0.55
3:N:1267:ARG:HH12	3:N:1271:LYS:HE3	1.71	0.55
1:A:41:ARG:HH11	1:A:41:ARG:HG3	1.70	0.55
1:B:132:LEU:HD11	1:B:138:LEU:HD13	1.88	0.55
2:C:217:LEU:HB2	2:C:311:PHE:CZ	2.42	0.55
2:C:510:ALA:HB3	2:C:513:VAL:CG2	2.37	0.55
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.88	0.55
3:D:1154:GLU:OE2	3:D:1159:ARG:HG2	2.06	0.55
2:M:18:LEU:HD12	2:M:18:LEU:N	2.22	0.55
2:M:721:ARG:HE	2:M:783:ARG:HH22	1.54	0.55
3:N:691:LEU:HG	3:N:720:LEU:HD11	1.88	0.55
1:A:46:SER:HB3	8:A:9595:HOH:O	2.06	0.55
2:C:433:THR:CG2	2:C:488:ALA:HB1	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:476:GLY:HA2	8:C:9625:HOH:O	2.06	0.55
2:C:530:GLU:C	2:C:531:PHE:HD1	2.09	0.55
2:C:1018:GLN:HE21	2:C:1063:ARG:HH22	1.53	0.55
3:D:28:LYS:O	3:D:43:GLY:HA2	2.07	0.55
3:D:131:LYS:HG2	3:D:568:ARG:CG	2.37	0.55
3:D:500:ARG:HH22	3:D:1388:ARG:HH11	1.55	0.55
3:D:1286:THR:HG22	3:D:1287:GLU:N	2.21	0.55
3:D:1365:ASP:O	3:D:1369:GLU:HG3	2.06	0.55
3:D:1495:ILE:CD1	4:E:84:ARG:HG2	2.36	0.55
5:F:282:LEU:HD12	5:F:284:ARG:HD2	1.88	0.55
1:L:170:VAL:O	1:L:170:VAL:HG23	2.07	0.55
2:M:69:LEU:C	2:M:70:GLU:HG3	2.26	0.55
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.27	0.55
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.37	0.55
2:M:899:GLN:HG3	2:M:901:TYR:CZ	2.42	0.55
4:O:41:GLU:N	4:O:45:ARG:HG3	2.22	0.55
2:C:474:VAL:HG13	2:C:530:GLU:C	2.27	0.55
2:C:799:ILE:O	2:C:799:ILE:HG12	2.07	0.55
3:D:135:LEU:HD11	3:D:452:ILE:HD11	1.88	0.55
3:D:213:VAL:HG23	3:D:391:ALA:HA	1.89	0.55
3:D:563:PRO:HG3	5:F:188:ILE:HG21	1.88	0.55
3:D:711:LEU:HD11	8:D:2469:HOH:O	2.06	0.55
3:D:806:PHE:CG	3:D:806:PHE:O	2.60	0.55
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.70	0.55
5:F:225:GLU:HG2	5:F:226:LYS:NZ	2.22	0.55
5:F:369:LEU:HD11	8:F:9847:HOH:O	2.06	0.55
2:M:77:PRO:HD2	2:M:91:GLN:O	2.06	0.55
2:M:100:LEU:HD12	2:M:100:LEU:O	2.06	0.55
2:M:228:ALA:HB3	8:M:9807:HOH:O	2.06	0.55
2:M:385:PHE:O	2:M:389:SER:HB3	2.07	0.55
2:M:432:ARG:NE	3:N:1048:PRO:HD2	2.21	0.55
2:M:514:VAL:HB	8:M:9879:HOH:O	2.06	0.55
2:M:738:ASP:HB3	8:M:9801:HOH:O	2.07	0.55
2:M:967:PHE:HD1	2:M:972:VAL:HG12	1.72	0.55
3:N:199:LEU:HD23	3:N:199:LEU:O	2.07	0.55
3:N:1084:THR:HA	3:N:1087:ARG:HG2	1.89	0.55
3:N:1209:LEU:CD2	4:O:16:LYS:HD2	2.37	0.55
3:N:1476:THR:HA	8:N:9748:HOH:O	2.07	0.55
1:A:9:PRO:HB2	1:B:224:TYR:HB3	1.89	0.55
2:C:47:ALA:HB1	8:C:2085:HOH:O	2.07	0.55
2:C:250:ARG:NH2	2:C:254:VAL:HG23	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:328:LEU:HD12	2:C:328:LEU:N	2.21	0.55
2:C:568:ALA:CB	2:C:668:LEU:HB3	2.36	0.55
2:C:630:ARG:NE	2:C:705:ILE:O	2.40	0.55
2:C:643:VAL:HG13	2:C:647:GLN:NE2	2.21	0.55
2:C:725:ASP:HB2	2:C:783:ARG:HH12	1.72	0.55
3:D:98:PRO:HD3	8:D:9851:HOH:O	2.07	0.55
3:D:555:LYS:HE2	8:D:2118:HOH:O	2.06	0.55
3:D:584:ASN:H	3:D:602:SER:CB	2.20	0.55
3:D:618:LEU:HD23	8:D:2051:HOH:O	2.06	0.55
3:D:1049:SER:OG	3:D:1051:GLU:HG2	2.07	0.55
5:F:128:ARG:HG2	8:F:9604:HOH:O	2.07	0.55
5:F:181:GLU:O	5:F:184:ARG:HB3	2.06	0.55
5:F:276:ARG:HG3	5:F:276:ARG:NH1	2.22	0.55
1:L:169:ALA:HB1	1:L:171:PHE:CE1	2.42	0.55
2:M:34:VAL:HB	2:M:38:LYS:CG	2.35	0.55
2:M:752:GLY:O	2:M:791:ARG:HD2	2.06	0.55
3:N:1437:ALA:O	3:N:1446:VAL:HG21	2.07	0.55
1:A:89:PHE:HB3	1:A:120:VAL:HG22	1.88	0.55
1:B:52:ALA:HB2	1:B:170:VAL:O	2.06	0.55
2:C:135:VAL:HB	2:C:406:HIS:CE1	2.42	0.55
2:C:233:GLU:HG2	8:C:9873:HOH:O	2.07	0.55
2:C:275:TYR:OH	2:C:487:THR:HG21	2.07	0.55
2:C:418:LEU:HD12	8:C:9500:HOH:O	2.06	0.55
2:C:598:GLU:O	2:C:651:LYS:HG3	2.06	0.55
2:C:949:LYS:HD2	3:D:859:ASP:OD2	2.07	0.55
3:D:645:PRO:HB3	3:D:723:GLY:O	2.07	0.55
3:D:804:LEU:HD12	3:D:804:LEU:O	2.07	0.55
4:E:3:GLU:HB3	8:E:9453:HOH:O	2.06	0.55
1:L:176:ARG:HB2	8:L:2002:HOH:O	2.06	0.55
2:M:164:PRO:CB	8:M:9843:HOH:O	2.55	0.55
2:M:537:LYS:CA	2:M:905:ILE:HD11	2.36	0.55
2:M:1016:ILE:H	2:M:1016:ILE:HD13	1.71	0.55
3:N:625:TYR:O	3:N:749:VAL:HG23	2.06	0.55
3:N:897:TRP:CH2	3:N:902:LEU:HD21	2.41	0.55
5:P:124:PRO:HG2	8:P:9646:HOH:O	2.07	0.55
1:A:27:PRO:CG	1:A:186:LEU:HD22	2.37	0.54
1:A:47:SER:HB2	1:A:217:ILE:HD13	1.88	0.54
2:C:31:GLN:NE2	8:C:2231:HOH:O	2.40	0.54
2:C:653:ASP:OD1	2:C:654:LEU:HD23	2.07	0.54
3:D:55:ASP:CA	3:D:82:LYS:HG2	2.37	0.54
3:D:179:VAL:HG22	8:D:9925:HOH:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:181:ASP:O	3:D:185:VAL:HG23	2.07	0.54
3:D:1379:VAL:O	3:D:1392:GLY:HA2	2.07	0.54
3:D:1437:ALA:O	3:D:1446:VAL:HG21	2.07	0.54
4:E:91:ARG:HG2	8:E:9368:HOH:O	2.06	0.54
1:L:41:ARG:HH11	1:L:41:ARG:HG3	1.71	0.54
2:M:17:PRO:O	2:M:20:GLU:HB2	2.07	0.54
2:M:113:VAL:HG13	8:M:9704:HOH:O	2.06	0.54
2:M:264:PRO:HB3	2:M:289:THR:CG2	2.37	0.54
2:M:442:GLU:O	2:M:442:GLU:HG3	2.06	0.54
2:M:497:ALA:HA	2:M:515:ALA:HA	1.88	0.54
2:M:726:ILE:HD11	2:M:737:LEU:HD11	1.89	0.54
8:M:9821:HOH:O	3:N:3:LYS:HB3	2.07	0.54
3:N:87:ARG:O	3:N:521:PRO:CB	2.46	0.54
3:N:162:ARG:NE	3:N:434:ARG:HH21	2.03	0.54
3:N:1265:ALA:HB1	3:N:1332:PRO:HB2	1.87	0.54
3:N:1377:LYS:HG2	3:N:1378:TYR:CD1	2.42	0.54
1:A:131:THR:HG21	8:A:9522:HOH:O	2.07	0.54
1:B:89:PHE:HB2	1:B:94:LEU:HD22	1.89	0.54
2:C:108:ILE:HD11	2:C:365:ASP:OD1	2.07	0.54
2:C:172:ILE:HD12	2:C:172:ILE:N	2.21	0.54
2:C:274:ARG:N	2:C:288:ARG:HH12	2.01	0.54
2:C:679:PHE:CE2	2:C:853:LEU:HD21	2.42	0.54
2:C:999:HIS:HE1	8:C:9820:HOH:O	1.89	0.54
3:D:118:LEU:HA	3:D:123:LEU:HD13	1.88	0.54
3:D:743:ASP:HA	8:D:9498:HOH:O	2.08	0.54
1:L:50:GLY:O	1:L:146:ARG:HA	2.07	0.54
2:M:284:ARG:O	2:M:301:GLU:HB3	2.08	0.54
2:M:333:ILE:O	2:M:465:GLY:HA3	2.06	0.54
2:M:480:THR:HG22	2:M:481:ASP:N	2.23	0.54
2:M:789:SER:O	2:M:791:ARG:HG2	2.08	0.54
3:N:149:LYS:HD3	3:N:149:LYS:N	2.19	0.54
3:N:154:THR:HG22	3:N:155:ASP:N	2.22	0.54
3:N:195:VAL:O	3:N:205:TYR:HD1	1.90	0.54
3:N:381:ALA:HB1	8:N:9952:HOH:O	2.08	0.54
3:N:645:PRO:HB3	3:N:723:GLY:O	2.08	0.54
3:N:827:ILE:HG22	3:N:837:GLY:HA2	1.87	0.54
3:N:1036:ARG:NH2	3:N:1042:ARG:HA	2.21	0.54
5:P:413:SER:O	5:P:416:ARG:HG2	2.07	0.54
1:A:18:ARG:HH12	1:A:88:ARG:HH21	1.54	0.54
2:C:4:LYS:HG3	8:C:9575:HOH:O	2.07	0.54
2:C:11:GLU:HA	8:C:2224:HOH:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:101:ILE:HG22	2:C:102:HIS:N	2.21	0.54
2:C:983:ILE:HG21	2:C:987:ILE:CD1	2.38	0.54
2:C:1090:LYS:HE2	2:C:1112:PHE:CZ	2.43	0.54
3:D:423:ASP:OD2	5:F:174:LEU:HD22	2.07	0.54
3:D:1409:ALA:HB2	8:D:9593:HOH:O	2.07	0.54
5:F:164:LYS:HA	5:F:171:LYS:HZ2	1.72	0.54
5:F:167:PRO:HB2	5:F:169:GLU:OE1	2.07	0.54
1:K:18:ARG:HH22	1:K:88:ARG:HH21	1.54	0.54
1:L:169:ALA:HB1	1:L:171:PHE:CZ	2.42	0.54
2:M:51:THR:O	2:M:51:THR:HG22	2.07	0.54
2:M:164:PRO:HB2	8:M:9843:HOH:O	2.08	0.54
2:M:510:ALA:O	2:M:513:VAL:HG23	2.08	0.54
2:M:587:VAL:O	2:M:591:SER:HB3	2.07	0.54
2:M:953:VAL:HG13	2:M:966:LEU:HD13	1.88	0.54
3:N:80:VAL:HG12	8:N:2191:HOH:O	2.07	0.54
3:N:139:GLY:CA	3:N:452:ILE:HD12	2.36	0.54
3:N:660:LYS:HA	3:N:663:GLU:HG3	1.88	0.54
3:N:660:LYS:HD2	3:N:663:GLU:OE2	2.07	0.54
3:N:703:ASN:HD22	3:N:713:ILE:HG12	1.72	0.54
3:N:1437:ALA:HB3	3:N:1446:VAL:CG1	2.36	0.54
1:B:24:VAL:HG23	8:B:9505:HOH:O	2.06	0.54
2:C:44:ILE:H	2:C:44:ILE:HD12	1.73	0.54
2:C:231:PRO:HB2	8:C:9804:HOH:O	2.08	0.54
3:D:169:TYR:CG	3:D:169:TYR:O	2.60	0.54
3:D:628:ARG:HG2	3:D:629:SER:N	2.22	0.54
3:D:647:ARG:HD2	3:D:680:GLN:NE2	2.22	0.54
3:D:710:ARG:HH21	3:D:1224:VAL:HG21	1.71	0.54
3:D:799:LYS:HD2	8:D:2525:HOH:O	2.07	0.54
3:D:996:TRP:CG	3:D:1056:PRO:HG2	2.41	0.54
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.89	0.54
5:F:290:GLU:HB2	8:F:9483:HOH:O	2.07	0.54
5:F:369:LEU:HG	8:F:9532:HOH:O	2.07	0.54
1:K:65:PHE:CE2	2:M:830:LYS:HG3	2.42	0.54
2:M:415:PRO:HA	8:M:9730:HOH:O	2.07	0.54
2:M:722:ILE:O	2:M:722:ILE:HG23	2.08	0.54
2:M:897:LEU:HD23	2:M:899:GLN:NE2	2.22	0.54
3:N:434:ARG:NH1	8:N:2094:HOH:O	2.41	0.54
3:N:562:ALA:HB1	3:N:567:ILE:CD1	2.35	0.54
3:N:1047:LYS:HG2	3:N:1053:PHE:CZ	2.43	0.54
3:N:1101:VAL:HG11	3:N:1424:VAL:HG23	1.90	0.54
3:N:1332:PRO:CB	3:N:1421:LEU:HD21	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1498:ALA:HB2	4:O:88:GLU:OE1	2.07	0.54
5:P:288:TYR:CD1	5:P:288:TYR:N	2.74	0.54
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.41	0.54
2:C:129:ILE:HD11	2:C:386:PHE:HD2	1.72	0.54
2:C:207:LEU:HB3	2:C:221:LEU:HD21	1.88	0.54
2:C:604:ALA:HB3	2:C:612:VAL:O	2.07	0.54
2:C:722:ILE:HG23	2:C:805:ARG:HH21	1.73	0.54
2:C:869:VAL:HG22	2:C:871:LEU:HD13	1.89	0.54
3:D:54:LYS:HG2	3:D:55:ASP:OD1	2.08	0.54
3:D:763:MET:HA	8:D:9596:HOH:O	2.08	0.54
5:F:399:GLN:HG3	8:F:9828:HOH:O	2.08	0.54
2:M:507:ARG:HG3	8:M:9565:HOH:O	2.06	0.54
2:M:820:ARG:HG3	8:M:9511:HOH:O	2.08	0.54
2:M:1111:ILE:HG13	2:M:1112:PHE:N	2.22	0.54
3:N:738:ALA:HB2	8:N:9496:HOH:O	2.08	0.54
3:N:1320:GLU:HA	8:N:9629:HOH:O	2.07	0.54
4:O:87:LYS:HB2	8:O:724:HOH:O	2.08	0.54
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.90	0.54
5:P:267:THR:HG23	5:P:299:TRP:HH2	1.73	0.54
5:P:325:LYS:HD3	8:P:9772:HOH:O	2.07	0.54
1:A:187:GLY:HA2	8:A:9473:HOH:O	2.07	0.54
2:C:93:PRO:HA	8:C:9502:HOH:O	2.08	0.54
2:C:163:ILE:HG13	2:C:171:TRP:HZ3	1.71	0.54
2:C:328:LEU:HD22	2:C:437:ARG:HD3	1.89	0.54
2:C:443:THR:CG2	2:C:450:GLY:H	2.15	0.54
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.42	0.54
2:C:889:HIS:NE2	2:C:970:GLY:HA3	2.23	0.54
2:C:1039:ALA:HB2	3:D:707:THR:CG2	2.37	0.54
3:D:11:ALA:HB1	3:D:507:ASN:OD1	2.07	0.54
3:D:638:LYS:HE3	8:D:2552:HOH:O	2.06	0.54
3:D:1395:LEU:HG	8:D:2279:HOH:O	2.07	0.54
3:D:1487:VAL:HG12	3:D:1488:ASP:N	2.23	0.54
5:F:192:LEU:O	5:F:196:VAL:HG23	2.08	0.54
5:F:412:GLU:HG3	5:F:418:LEU:HD13	1.89	0.54
1:L:91:ASN:HA	8:L:879:HOH:O	2.07	0.54
1:L:156:HIS:HD2	1:L:157:GLY:N	2.04	0.54
1:L:156:HIS:CD2	1:L:157:GLY:N	2.75	0.54
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.38	0.54
2:M:1062:GLY:HA3	8:M:9570:HOH:O	2.06	0.54
2:M:1090:LYS:HE2	2:M:1112:PHE:CE2	2.43	0.54
3:N:55:ASP:HA	3:N:82:LYS:HG2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:444:VAL:O	3:N:444:VAL:HG22	2.07	0.54
3:N:972:LEU:HD12	8:N:2464:HOH:O	2.08	0.54
3:N:1020:LEU:HD21	3:N:1038:LEU:CD2	2.37	0.54
3:N:1455:LYS:HD2	8:N:2323:HOH:O	2.08	0.54
5:P:130:VAL:HG13	5:P:156:VAL:HG23	1.90	0.54
1:A:42:ARG:HG2	1:A:42:ARG:NH1	2.18	0.54
2:C:15:LEU:HD22	8:C:9630:HOH:O	2.08	0.54
2:C:22:GLN:HE22	2:C:336:VAL:HG21	1.71	0.54
2:C:270:GLY:H	2:C:288:ARG:NH2	2.05	0.54
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.23	0.54
2:C:738:ASP:HB2	2:C:744:ARG:HB3	1.90	0.54
2:C:1021:LEU:HD22	5:F:332:PHE:HA	1.89	0.54
2:C:1049:LEU:HD23	3:D:1472:ILE:HD11	1.87	0.54
3:D:77:GLY:O	3:D:78:VAL:HG23	2.07	0.54
3:D:195:VAL:HG13	8:D:9592:HOH:O	2.07	0.54
3:D:441:ARG:O	3:D:443:VAL:N	2.41	0.54
3:D:510:GLU:HG2	8:D:2069:HOH:O	2.07	0.54
3:D:797:LYS:HG2	8:D:2474:HOH:O	2.07	0.54
3:D:1079:LYS:HG3	3:D:1080:GLY:N	2.22	0.54
3:D:1339:LYS:HG2	3:D:1343:ALA:HB2	1.88	0.54
5:F:130:VAL:HG21	5:F:159:ILE:CG2	2.37	0.54
5:F:172:ARG:O	5:F:176:ILE:HG13	2.07	0.54
1:L:133:GLU:HG3	1:L:134:GLU:H	1.73	0.54
1:L:196:THR:HG21	8:L:3509:HOH:O	2.07	0.54
2:M:283:ILE:HG22	2:M:284:ARG:HG3	1.90	0.54
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.90	0.54
2:M:843:HIS:CD2	2:M:884:GLN:HA	2.41	0.54
3:N:55:ASP:CA	3:N:82:LYS:HG2	2.37	0.54
3:N:496:LEU:CD2	3:N:500:ARG:HG3	2.38	0.54
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.23	0.54
3:N:704:ARG:HD2	3:N:705:ALA:H	1.72	0.54
4:O:40:LEU:CD2	4:O:67:GLU:HA	2.34	0.54
2:C:73:LEU:HD23	2:C:93:PRO:O	2.08	0.54
3:D:80:VAL:HG23	3:D:81:THR:O	2.08	0.54
3:D:402:PRO:HB3	8:D:2109:HOH:O	2.07	0.54
3:D:950:GLY:N	3:D:953:ASP:OD1	2.35	0.54
1:K:34:VAL:HG21	2:M:939:ARG:CZ	2.38	0.54
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.89	0.54
2:M:211:LEU:HD12	2:M:308:ARG:HD3	1.89	0.54
2:M:383:ARG:NH2	8:M:9873:HOH:O	2.38	0.54
2:M:503:LEU:HB3	8:M:9597:HOH:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:739:GLU:HG2	8:M:9580:HOH:O	2.08	0.54
2:M:808:ARG:HH21	2:M:820:ARG:NH2	2.06	0.54
3:N:477:LEU:O	3:N:481:MET:HB2	2.08	0.54
3:N:806:PHE:CG	3:N:806:PHE:O	2.61	0.54
3:N:1114:THR:HB	3:N:1195:GLN:HB2	1.90	0.54
3:N:1243:THR:O	3:N:1269:LYS:HD3	2.08	0.54
3:N:1420:LEU:HD12	8:N:9548:HOH:O	2.07	0.54
5:P:398:ARG:HB3	8:P:9476:HOH:O	2.07	0.54
1:A:51:THR:HA	1:A:145:ASP:O	2.07	0.54
1:B:58:ILE:HG21	1:B:68:ILE:HD11	1.90	0.54
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.43	0.54
2:C:195:LEU:HG	2:C:238:LEU:HD12	1.90	0.54
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.38	0.54
2:C:720:GLU:CD	2:C:758:ARG:HH11	2.11	0.54
2:C:1096:ALA:HB3	3:D:101:HIS:CE1	2.43	0.54
3:D:659:LYS:C	3:D:659:LYS:HD3	2.28	0.54
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.43	0.54
3:D:1439:SER:HB3	8:D:2132:HOH:O	2.07	0.54
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.42	0.54
1:K:205:VAL:HG23	1:K:206:THR:N	2.23	0.54
1:L:94:LEU:HD11	1:L:119:ASP:OD2	2.07	0.54
2:M:19:THR:HG21	2:M:124:ASP:O	2.07	0.54
2:M:63:GLY:O	2:M:103:LYS:HE2	2.08	0.54
2:M:162:ILE:O	2:M:164:PRO:HD2	2.08	0.54
2:M:203:ASP:HB2	8:M:9850:HOH:O	2.08	0.54
2:M:448:ASN:HA	2:M:451:LEU:HD12	1.89	0.54
2:M:501:THR:O	2:M:503:LEU:HD23	2.08	0.54
2:M:778:PHE:HZ	5:P:419:ARG:HD3	1.68	0.54
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.08	0.54
3:N:770:LEU:HD11	3:N:919:PHE:CD2	2.42	0.54
3:N:950:GLY:O	3:N:953:ASP:N	2.36	0.54
3:N:1498:ALA:HB1	8:N:2333:HOH:O	2.07	0.54
5:P:181:GLU:OE2	5:P:184:ARG:HD3	2.07	0.54
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.73	0.54
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.18	0.54
2:C:679:PHE:HB2	8:C:9687:HOH:O	2.08	0.54
2:C:749:VAL:HA	8:C:2219:HOH:O	2.07	0.54
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.28	0.54
3:D:131:LYS:HD2	5:F:83:GLN:CD	2.28	0.54
3:D:131:LYS:HB3	3:D:456:MET:HE2	1.90	0.54
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:806:PHE:O	3:D:808:THR:N	2.40	0.54
1:K:32:PHE:HB2	8:K:1204:HOH:O	2.08	0.54
2:M:204:GLN:HG3	8:M:2184:HOH:O	2.08	0.54
2:M:325:ILE:HA	8:M:2182:HOH:O	2.08	0.54
2:M:554:ASP:HB2	2:M:880:MET:HB2	1.90	0.54
3:N:166:GLN:HG2	3:N:207:PHE:HB2	1.90	0.54
3:N:524:LEU:C	3:N:526:PRO:HD3	2.28	0.54
3:N:558:LEU:HD13	5:P:145:PRO:CA	2.37	0.54
3:N:711:LEU:HD12	3:N:778:LEU:HD23	1.88	0.54
3:N:781:PRO:O	3:N:786:ILE:HG13	2.08	0.54
3:N:988:ARG:HG2	3:N:988:ARG:HH11	1.72	0.54
3:N:1377:LYS:HE2	3:N:1378:TYR:CZ	2.43	0.54
5:P:134:LYS:HE3	5:P:134:LYS:HA	1.90	0.54
5:P:361:LEU:HD21	5:P:408:LEU:HB2	1.90	0.54
1:A:196:THR:HG22	8:A:9445:HOH:O	2.08	0.53
2:C:328:LEU:HD13	2:C:433:THR:CB	2.38	0.53
2:C:474:VAL:HG13	2:C:530:GLU:O	2.09	0.53
2:C:534:VAL:N	2:C:538:GLN:HE22	2.05	0.53
2:C:572:ILE:HD11	2:C:698:ASP:HB3	1.90	0.53
2:C:1013:TYR:HB2	5:F:335:ASP:OD2	2.07	0.53
3:D:865:THR:HG23	3:D:874:GLU:HG2	1.89	0.53
3:D:1103:HIS:HD2	3:D:1462:LEU:N	2.01	0.53
5:F:376:ILE:HG22	5:F:377:ASP:CB	2.35	0.53
2:M:127:PHE:HB3	2:M:129:ILE:HD13	1.90	0.53
2:M:432:ARG:HB3	8:M:9836:HOH:O	2.08	0.53
3:N:1130:ARG:HB2	8:N:2015:HOH:O	2.07	0.53
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.37	0.53
2:C:876:VAL:O	2:C:879:ARG:O	2.26	0.53
3:D:116:LEU:HB3	3:D:118:LEU:HD13	1.90	0.53
3:D:160:GLU:HG2	3:D:165:LYS:CD	2.37	0.53
3:D:175:VAL:HG21	8:D:2442:HOH:O	2.08	0.53
3:D:181:ASP:CG	3:D:198:ARG:HB2	2.27	0.53
3:D:421:LEU:HD23	3:D:421:LEU:O	2.09	0.53
3:D:774:SER:HB2	3:D:776:GLU:HG2	1.91	0.53
3:D:776:GLU:HG3	8:D:9714:HOH:O	2.09	0.53
3:D:1114:THR:HG23	3:D:1114:THR:O	2.07	0.53
3:D:1489:GLN:HE21	3:D:1493:LYS:HZ1	1.57	0.53
5:F:361:LEU:HD13	5:F:404:ALA:CB	2.37	0.53
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.91	0.53
2:M:405:ARG:HD2	2:M:442:GLU:OE1	2.09	0.53
2:M:441:VAL:HA	8:M:9785:HOH:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:554:ASP:N	2:M:880:MET:O	2.28	0.53
2:M:566:THR:HG21	8:M:2185:HOH:O	2.07	0.53
2:M:610:ARG:HG3	2:M:610:ARG:NH1	2.21	0.53
2:M:841:ASN:HD21	2:M:843:HIS:CG	2.25	0.53
2:M:910:LYS:HG3	8:M:9715:HOH:O	2.07	0.53
2:M:1039:ALA:HB3	3:N:713:ILE:HD12	1.89	0.53
3:N:421:LEU:HG	3:N:422:ALA:O	2.08	0.53
3:N:452:ILE:HG23	3:N:452:ILE:O	2.07	0.53
3:N:761:ILE:HD13	4:O:19:LEU:HD23	1.90	0.53
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.90	0.53
3:N:827:ILE:HG13	8:N:9926:HOH:O	2.07	0.53
3:N:1031:ASN:OD1	3:N:1033:GLN:N	2.41	0.53
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.90	0.53
5:P:83:GLN:O	5:P:87:GLU:HG3	2.08	0.53
5:P:99:GLU:OE1	5:P:234:LYS:HB2	2.07	0.53
5:P:392:VAL:CG1	5:P:396:ARG:HB2	2.38	0.53
2:C:43:GLY:HA2	8:C:9879:HOH:O	2.08	0.53
2:C:158:TYR:CE1	2:C:313:LEU:HG	2.43	0.53
2:C:237:ARG:O	2:C:240:THR:HB	2.09	0.53
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.43	0.53
2:C:843:HIS:HD2	2:C:884:GLN:CB	2.21	0.53
3:D:112:ILE:O	3:D:112:ILE:HD12	2.08	0.53
3:D:1033:GLN:NE2	3:D:1036:ARG:NH1	2.44	0.53
5:F:202:TYR:HB2	8:F:9547:HOH:O	2.08	0.53
1:L:176:ARG:NH2	3:N:884:ARG:NE	2.56	0.53
2:M:153:ALA:O	2:M:155:PRO:HD3	2.08	0.53
2:M:263:ASP:HB2	2:M:264:PRO:CD	2.39	0.53
2:M:412:ALA:HA	8:M:2237:HOH:O	2.09	0.53
2:M:501:THR:HG22	2:M:513:VAL:HG11	1.88	0.53
2:M:770:GLU:HB3	8:M:9573:HOH:O	2.08	0.53
3:N:42:ASP:O	3:N:43:GLY:O	2.26	0.53
3:N:528:VAL:HG22	8:P:9581:HOH:O	2.07	0.53
3:N:564:GLU:H	3:N:564:GLU:CD	2.12	0.53
3:N:1065:LEU:HD23	3:N:1070:TYR:HD2	1.73	0.53
5:P:164:LYS:HE2	8:P:9648:HOH:O	2.08	0.53
5:P:406:ARG:HB3	8:P:9621:HOH:O	2.08	0.53
2:C:194:VAL:HG13	2:C:221:LEU:HD12	1.90	0.53
2:C:497:ALA:HA	2:C:515:ALA:HA	1.90	0.53
8:C:9763:HOH:O	5:F:373:LYS:HD2	2.09	0.53
3:D:209:ARG:CZ	3:D:397:LYS:HB2	2.38	0.53
3:D:209:ARG:NH2	3:D:397:LYS:HB2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1104:GLU:HG3	3:D:1105:ILE:HD13	1.91	0.53
5:F:142:ARG:HD3	8:F:9733:HOH:O	2.08	0.53
5:F:292:ALA:HB1	5:F:299:TRP:O	2.08	0.53
5:F:393:THR:CG2	5:F:394:ARG:N	2.69	0.53
1:K:28:LEU:HA	8:K:2870:HOH:O	2.08	0.53
1:L:51:THR:HA	1:L:145:ASP:O	2.07	0.53
1:L:77:GLU:HB2	3:N:872:ARG:NH2	2.24	0.53
2:M:264:PRO:CB	2:M:289:THR:HG21	2.37	0.53
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.39	0.53
2:M:944:LEU:HB3	8:M:9761:HOH:O	2.09	0.53
3:N:148:GLU:HB3	3:N:151:GLN:CG	2.38	0.53
3:N:432:TYR:HA	3:N:448:GLU:O	2.09	0.53
3:N:484:PRO:HB3	8:N:9566:HOH:O	2.09	0.53
3:N:601:ARG:NE	3:N:605:ASP:HB3	2.23	0.53
3:N:1232:PRO:HB3	3:N:1361:VAL:HG11	1.89	0.53
3:N:1461:GLY:O	3:N:1473:PRO:HG2	2.08	0.53
8:N:2187:HOH:O	5:P:90:GLN:HG3	2.07	0.53
5:P:134:LYS:HB3	5:P:178:ARG:CZ	2.38	0.53
2:C:195:LEU:O	2:C:195:LEU:HD12	2.08	0.53
2:C:399:ASN:HB3	2:C:568:ALA:O	2.09	0.53
2:C:438:ILE:HG21	8:C:9979:HOH:O	2.07	0.53
2:C:569:VAL:HG12	2:C:996:LYS:O	2.09	0.53
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.90	0.53
2:C:949:LYS:CB	3:D:796:ARG:HH21	2.22	0.53
3:D:142:LEU:HA	8:D:9493:HOH:O	2.08	0.53
3:D:541:ASN:O	3:D:545:ARG:HG3	2.08	0.53
3:D:968:ASP:O	3:D:971:LEU:HB3	2.09	0.53
3:D:1011:PHE:HE1	3:D:1018:ASN:ND2	2.05	0.53
3:D:1133:ARG:HB2	8:D:2100:HOH:O	2.08	0.53
1:K:182:GLU:O	1:K:194:LYS:HB3	2.09	0.53
1:L:206:THR:HB	1:L:209:GLU:OE2	2.09	0.53
2:M:1104:GLU:HG2	8:M:9503:HOH:O	2.08	0.53
3:N:535:PHE:HA	8:N:9957:HOH:O	2.08	0.53
3:N:560:GLN:HE21	3:N:560:GLN:CA	2.22	0.53
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.89	0.53
3:N:1017:PHE:HA	3:N:1022:VAL:CG2	2.38	0.53
1:B:50:GLY:O	1:B:146:ARG:HA	2.08	0.53
2:C:144:PRO:HG2	2:C:165:LEU:HD23	1.91	0.53
2:C:266:ARG:HD3	2:C:273:GLY:HA3	1.88	0.53
2:C:286:SER:HB3	2:C:299:LYS:NZ	2.23	0.53
2:C:290:LEU:HD12	8:C:9781:HOH:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:484:VAL:HG12	2:C:486:MET:HG3	1.89	0.53
2:C:674:VAL:HG23	2:C:869:VAL:O	2.08	0.53
2:C:679:PHE:O	2:C:681:GLY:N	2.41	0.53
2:C:704:HIS:CD2	2:C:831:ARG:HH12	2.27	0.53
2:C:768:THR:HB	2:C:771:GLU:HB3	1.89	0.53
2:C:911:GLU:HG2	2:C:915:LYS:HE3	1.91	0.53
3:D:653:PHE:CD1	3:D:695:ILE:HD11	2.43	0.53
5:F:326:ASP:HA	8:F:9543:HOH:O	2.08	0.53
1:K:181:VAL:O	2:M:938:LYS:HD2	2.08	0.53
2:M:516:ARG:HG3	3:N:1068:LEU:HD13	1.90	0.53
2:M:672:VAL:CG2	2:M:868:ASP:HB2	2.38	0.53
2:M:1008:ARG:CZ	2:M:1020:PRO:HB3	2.38	0.53
3:N:379:ALA:HB2	8:N:9770:HOH:O	2.09	0.53
3:N:482:LYS:HG2	8:N:9980:HOH:O	2.08	0.53
3:N:1376:MET:CE	3:N:1421:LEU:HD13	2.38	0.53
4:O:74:VAL:CG1	4:O:79:LEU:HD21	2.35	0.53
1:A:58:ILE:HG21	1:A:68:ILE:HD11	1.90	0.53
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.74	0.53
3:D:74:GLU:HB2	3:D:75:ARG:HD2	1.91	0.53
3:D:115:LEU:HD11	3:D:468:LEU:HD13	1.90	0.53
3:D:484:PRO:O	3:D:489:ARG:HD2	2.09	0.53
3:D:633:VAL:HG22	3:D:635:PRO:CD	2.39	0.53
3:D:895:VAL:O	3:D:899:LEU:HD12	2.08	0.53
3:D:955:VAL:HG11	3:D:1015:TYR:HE2	1.74	0.53
3:D:1403:LEU:HD22	8:D:9569:HOH:O	2.08	0.53
1:K:220:GLU:HG2	8:K:1270:HOH:O	2.08	0.53
1:L:47:SER:HB2	1:L:217:ILE:HD13	1.91	0.53
2:M:44:ILE:HD11	2:M:340:MET:HE1	1.91	0.53
2:M:71:TYR:H	2:M:71:TYR:HD2	1.51	0.53
2:M:74:GLY:HA2	8:M:9521:HOH:O	2.09	0.53
2:M:257:VAL:HG12	2:M:263:ASP:CG	2.29	0.53
2:M:890:LEU:HD12	2:M:890:LEU:O	2.09	0.53
2:M:1017:THR:OG1	2:M:1019:GLN:HG2	2.09	0.53
3:N:40:GLU:OE1	3:N:40:GLU:HA	2.08	0.53
3:N:119:SER:H	3:N:123:LEU:HD12	1.73	0.53
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.24	0.53
2:C:480:THR:HG22	2:C:481:ASP:N	2.24	0.53
2:C:763:GLY:HA3	8:C:2108:HOH:O	2.09	0.53
2:C:837:ASP:OD2	2:C:838:LYS:N	2.41	0.53
2:C:1083:GLU:HG2	8:C:9782:HOH:O	2.09	0.53
3:D:480:GLU:O	3:D:484:PRO:HD2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:219:ARG:HH12	1:K:220:GLU:HG3	1.74	0.53
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.74	0.53
2:M:317:VAL:HG22	2:M:320:HIS:CE1	2.43	0.53
2:M:520:GLU:O	2:M:522:VAL:HG23	2.08	0.53
2:M:537:LYS:N	2:M:905:ILE:HD11	2.24	0.53
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.30	0.53
3:N:141:ILE:HD12	3:N:141:ILE:N	2.24	0.53
3:N:396:VAL:HG22	3:N:447:VAL:HB	1.90	0.53
3:N:598:ARG:NH2	5:P:318:GLU:O	2.42	0.53
3:N:1485:GLN:HB3	8:N:2188:HOH:O	2.08	0.53
1:A:39:PRO:CG	1:B:39:PRO:HG2	2.39	0.53
1:B:211:LEU:O	1:B:215:VAL:HG13	2.09	0.53
2:C:252:LYS:HE2	2:C:296:GLY:HA3	1.89	0.53
2:C:290:LEU:HD13	8:C:9742:HOH:O	2.08	0.53
2:C:322:VAL:HA	8:C:9963:HOH:O	2.08	0.53
2:C:720:GLU:OE2	2:C:760:SER:HB3	2.08	0.53
2:C:1001:VAL:HA	8:C:9545:HOH:O	2.09	0.53
2:C:1039:ALA:HB2	3:D:707:THR:HG21	1.91	0.53
3:D:42:ASP:O	3:D:43:GLY:O	2.27	0.53
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.91	0.53
5:F:122:LEU:HD23	5:F:126:LEU:HB3	1.91	0.53
1:L:185:ARG:NH1	3:N:692:GLU:HG3	2.24	0.53
2:M:247:PRO:HG2	8:M:2139:HOH:O	2.09	0.53
2:M:432:ARG:NH2	3:N:1047:LYS:HB3	2.24	0.53
2:M:448:ASN:ND2	2:M:452:ILE:HD11	2.24	0.53
2:M:455:LEU:HD13	2:M:456:ALA:O	2.09	0.53
2:M:971:LYS:NZ	3:N:950:GLY:HA3	2.23	0.53
3:N:774:SER:HB2	3:N:776:GLU:HG2	1.91	0.53
3:N:820:GLU:CB	3:N:836:VAL:HG21	2.38	0.53
4:O:70:THR:HG22	4:O:71:GLY:H	1.73	0.53
1:A:212:ASN:HA	8:A:9434:HOH:O	2.09	0.53
1:A:212:ASN:HB2	8:A:9590:HOH:O	2.09	0.53
1:B:65:PHE:HB2	8:B:9547:HOH:O	2.08	0.53
2:C:263:ASP:HB2	2:C:264:PRO:CD	2.34	0.53
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.91	0.53
3:D:30:GLU:HB3	3:D:40:GLU:CB	2.39	0.53
3:D:820:GLU:HB3	3:D:836:VAL:HG21	1.91	0.53
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.91	0.53
2:M:1035:MET:HB2	2:M:1036:GLU:OE1	2.09	0.53
3:N:80:VAL:HG23	3:N:81:THR:O	2.09	0.53
3:N:138:LYS:HD2	3:N:138:LYS:N	2.15	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:792:ILE:HG23	3:N:793:THR:HG23	1.91	0.53
3:N:885:ILE:HG23	3:N:937:TYR:CE1	2.44	0.53
3:N:930:LEU:O	3:N:934:LEU:HD12	2.09	0.53
3:N:1399:ASP:O	3:N:1403:LEU:HB2	2.08	0.53
1:A:72:LYS:HZ1	2:C:644:VAL:HA	1.74	0.52
1:B:132:LEU:CD2	1:B:138:LEU:HD22	2.34	0.52
2:C:501:THR:HG22	2:C:513:VAL:CG1	2.39	0.52
2:C:909:ALA:HB1	2:C:914:ILE:CD1	2.39	0.52
2:C:1007:ALA:HB2	3:D:648:MET:HG3	1.90	0.52
2:C:1034:GLU:HG3	2:C:1035:MET:N	2.24	0.52
3:D:84:ILE:HA	8:D:2066:HOH:O	2.09	0.52
3:D:529:GLN:HB2	8:D:2263:HOH:O	2.07	0.52
3:D:775:GLY:HA3	3:D:1145:TYR:HE1	1.74	0.52
3:D:1047:LYS:HG2	3:D:1053:PHE:CZ	2.44	0.52
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	1.91	0.52
4:E:4:PRO:HB2	8:E:9361:HOH:O	2.08	0.52
5:F:85:LEU:HD22	5:F:193:ARG:HG3	1.90	0.52
5:F:153:PRO:HB2	8:F:9637:HOH:O	2.09	0.52
5:F:289:GLU:O	5:F:293:GLU:HG3	2.09	0.52
5:F:412:GLU:CG	5:F:418:LEU:HD13	2.40	0.52
2:M:358:ARG:HB3	2:M:371:LYS:O	2.09	0.52
3:N:104:PHE:HA	8:N:9484:HOH:O	2.09	0.52
3:N:399:ARG:HD3	3:N:402:PRO:HG3	1.91	0.52
3:N:422:ALA:N	3:N:427:VAL:HG11	2.15	0.52
3:N:496:LEU:HD21	3:N:500:ARG:NE	2.25	0.52
3:N:908:LYS:O	3:N:912:LYS:HB2	2.09	0.52
3:N:992:ILE:O	3:N:995:LEU:HB3	2.08	0.52
3:N:1105:ILE:HD11	3:N:1374:GLN:NE2	2.24	0.52
4:O:18:ARG:NH1	8:O:4048:HOH:O	2.43	0.52
5:P:292:ALA:HB1	5:P:299:TRP:O	2.09	0.52
8:A:9609:HOH:O	1:B:12:THR:HG22	2.10	0.52
2:C:428:ARG:HH21	2:C:451:LEU:CD1	2.22	0.52
2:C:1005:MET:O	2:C:1005:MET:HG2	2.07	0.52
2:C:1115:LEU:O	3:D:89:ARG:HG2	2.09	0.52
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.43	0.52
3:D:444:VAL:HG22	3:D:444:VAL:O	2.09	0.52
3:D:470:LEU:HD12	3:D:508:ARG:NH1	2.24	0.52
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.30	0.52
4:E:8:LYS:O	4:E:12:MET:HG3	2.08	0.52
2:M:100:LEU:HD21	2:M:367:LEU:HG	1.91	0.52
2:M:146:VAL:HG12	2:M:162:ILE:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:181:VAL:HG12	2:M:182:VAL:H	1.74	0.52
2:M:241:LEU:HB3	8:M:9936:HOH:O	2.09	0.52
2:M:617:ASP:HB3	8:M:9992:HOH:O	2.08	0.52
2:M:1032:PHE:CE1	2:M:1052:MET:HE2	2.43	0.52
2:M:1085:PHE:CE1	2:M:1111:ILE:HG21	2.44	0.52
3:N:558:LEU:CB	5:P:145:PRO:HB3	2.39	0.52
3:N:680:GLN:O	3:N:683:ILE:HG13	2.09	0.52
3:N:806:PHE:O	3:N:808:THR:N	2.42	0.52
3:N:827:ILE:HD12	3:N:828:LYS:NZ	2.24	0.52
5:P:282:LEU:HD12	5:P:284:ARG:HD2	1.90	0.52
1:B:90:LEU:HD11	8:B:9549:HOH:O	2.08	0.52
2:C:281:LEU:CD1	2:C:306:THR:HA	2.39	0.52
2:C:359:MET:HE1	8:C:2181:HOH:O	2.09	0.52
2:C:985:GLY:HA3	8:D:9822:HOH:O	2.09	0.52
2:C:1118:LYS:NZ	3:D:20:SER:HA	2.24	0.52
3:D:708:LEU:O	3:D:1227:GLN:HG2	2.08	0.52
3:D:1432:LYS:NZ	3:D:1460:ILE:HB	2.23	0.52
3:D:1493:LYS:HG3	8:D:9515:HOH:O	2.09	0.52
5:F:286:PRO:HB3	5:F:290:GLU:HB2	1.91	0.52
1:K:146:ARG:NH2	1:K:147:GLY:HA2	2.23	0.52
2:M:42:VAL:HG12	2:M:43:GLY:N	2.23	0.52
2:M:52:PHE:HD2	2:M:68:PHE:HB2	1.71	0.52
2:M:339:LEU:HD21	8:M:9656:HOH:O	2.09	0.52
2:M:686:ASP:HB2	8:N:2331:HOH:O	2.09	0.52
2:M:1014:SER:HB2	8:M:9765:HOH:O	2.09	0.52
2:M:1019:GLN:NE2	3:N:621:LYS:HB3	2.25	0.52
2:M:1065:ALA:HB1	2:M:1077:PRO:HG2	1.91	0.52
3:N:128:TYR:HB3	3:N:129:PHE:CD1	2.44	0.52
3:N:584:ASN:H	3:N:602:SER:CB	2.22	0.52
3:N:847:ASP:HB2	8:N:2224:HOH:O	2.09	0.52
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.39	0.52
5:P:261:PRO:O	5:P:265:VAL:HG23	2.10	0.52
5:P:405:LEU:O	5:P:408:LEU:CD2	2.58	0.52
5:P:406:ARG:HA	5:P:409:LYS:CD	2.39	0.52
1:A:124:ASN:HB3	1:A:127:LEU:HD23	1.92	0.52
2:C:139:GLN:HB3	2:C:334:ARG:CG	2.38	0.52
2:C:344:PHE:HD2	2:C:382:ILE:HD11	1.74	0.52
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.91	0.52
3:D:17:LYS:HG3	8:D:9805:HOH:O	2.08	0.52
3:D:736:PHE:HA	8:D:9665:HOH:O	2.08	0.52
3:D:907:GLU:HA	8:D:2030:HOH:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:12:THR:CG2	1:L:24:VAL:HB	2.31	0.52
1:L:124:ASN:HA	8:L:932:HOH:O	2.09	0.52
2:M:65:VAL:O	2:M:101:ILE:HG12	2.08	0.52
2:M:462:ASP:HB2	8:M:9695:HOH:O	2.09	0.52
2:M:568:ALA:HB1	2:M:668:LEU:HB3	1.91	0.52
2:M:728:HIS:NE2	5:P:423:ASP:OD1	2.43	0.52
3:N:114:THR:O	3:N:495:ARG:HG3	2.09	0.52
3:N:1096:ARG:HH11	3:N:1096:ARG:CG	2.21	0.52
3:N:1103:HIS:CE1	3:N:1463:LYS:HE2	2.45	0.52
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.33	0.52
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.92	0.52
2:C:290:LEU:HG	8:C:9714:HOH:O	2.09	0.52
2:C:683:ASN:HB2	2:C:687:ALA:O	2.09	0.52
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.39	0.52
3:D:1062:ARG:HH11	3:D:1062:ARG:HG3	1.74	0.52
3:D:1364:HIS:ND1	3:D:1366:LYS:HG3	2.23	0.52
5:F:163:LEU:HD22	5:F:174:LEU:HG	1.92	0.52
2:M:266:ARG:HH11	2:M:266:ARG:HG3	1.75	0.52
2:M:448:ASN:CG	2:M:452:ILE:HD11	2.29	0.52
2:M:807:ARG:HG2	8:M:9793:HOH:O	2.08	0.52
3:N:119:SER:N	3:N:123:LEU:HB2	2.23	0.52
3:N:131:LYS:HG2	3:N:568:ARG:CG	2.28	0.52
3:N:471:GLU:HG2	8:N:9534:HOH:O	2.09	0.52
3:N:633:VAL:O	3:N:635:PRO:HD3	2.09	0.52
3:N:1286:THR:CG2	3:N:1287:GLU:N	2.71	0.52
3:N:1422:MET:HE3	3:N:1427:SER:HA	1.91	0.52
3:N:1500:LYS:HA	8:N:9894:HOH:O	2.09	0.52
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.91	0.52
5:P:169:GLU:HA	5:P:172:ARG:NH2	2.25	0.52
5:P:256:ARG:HD2	8:P:9506:HOH:O	2.10	0.52
1:A:33:GLY:O	1:A:195:LEU:HD22	2.10	0.52
2:C:837:ASP:HA	8:C:9820:HOH:O	2.09	0.52
2:C:964:LYS:HD2	8:C:9496:HOH:O	2.10	0.52
3:D:64:LYS:HD3	5:F:376:ILE:O	2.09	0.52
3:D:112:ILE:HD13	3:D:461:ILE:HG21	1.91	0.52
3:D:166:GLN:HG3	3:D:168:THR:OG1	2.10	0.52
3:D:177:ALA:CB	3:D:199:LEU:HD13	2.40	0.52
3:D:418:GLY:HA2	8:D:9642:HOH:O	2.09	0.52
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.75	0.52
3:D:566:ILE:HG23	5:F:217:ASN:HD22	1.75	0.52
3:D:660:LYS:HA	3:D:663:GLU:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:29:GLU:C	8:K:1204:HOH:O	2.48	0.52
2:M:492:ASP:CA	2:M:518:LYS:HB3	2.39	0.52
2:M:516:ARG:HG3	3:N:1068:LEU:CD1	2.40	0.52
2:M:610:ARG:HD3	2:M:622:GLU:OE1	2.09	0.52
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.92	0.52
2:M:841:ASN:HD21	2:M:843:HIS:CB	2.23	0.52
3:N:428:LYS:HB3	3:N:450:TYR:CE1	2.45	0.52
3:N:777:PRO:HG2	3:N:912:LYS:O	2.08	0.52
3:N:1133:ARG:HG3	8:N:9895:HOH:O	2.08	0.52
5:P:137:GLY:HA2	5:P:140:ARG:HH22	1.74	0.52
5:P:337:HIS:HB2	8:P:9745:HOH:O	2.09	0.52
2:C:139:GLN:NE2	2:C:415:PRO:HD2	2.22	0.52
2:C:468:ARG:HD3	2:C:485:TYR:O	2.10	0.52
2:C:577:PRO:HG3	2:C:993:PHE:CE1	2.44	0.52
2:C:671:ASN:N	2:C:671:ASN:HD22	2.08	0.52
3:D:9:ARG:HB2	3:D:1456:LYS:HA	1.92	0.52
3:D:55:ASP:HB3	3:D:82:LYS:HE2	1.92	0.52
3:D:820:GLU:CB	3:D:836:VAL:HG21	2.40	0.52
3:D:864:VAL:HG23	3:D:877:PRO:HD3	1.92	0.52
5:F:191:ASN:HB3	5:F:220:LEU:HD11	1.91	0.52
5:F:331:ASP:N	8:F:9658:HOH:O	2.42	0.52
1:K:206:THR:HG21	8:K:1068:HOH:O	2.10	0.52
2:M:564:MET:HG2	2:M:840:ALA:HB3	1.92	0.52
3:N:213:VAL:HG23	3:N:391:ALA:HA	1.92	0.52
5:P:257:THR:O	5:P:258:ILE:HD13	2.09	0.52
1:B:51:THR:HA	1:B:145:ASP:O	2.09	0.52
2:C:64:LEU:HB2	8:C:9487:HOH:O	2.10	0.52
2:C:352:ALA:O	2:C:355:VAL:HG12	2.10	0.52
2:C:435:TYR:C	2:C:437:ARG:H	2.11	0.52
2:C:546:LEU:CD1	2:C:565:GLN:HE22	2.22	0.52
3:D:415:VAL:HG12	3:D:416:ALA:N	2.25	0.52
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.10	0.52
8:D:2217:HOH:O	4:E:92:ILE:HD13	2.10	0.52
5:F:138:SER:OG	5:F:140:ARG:HG2	2.09	0.52
5:F:416:ARG:NH1	5:F:419:ARG:CB	2.72	0.52
1:K:150:TYR:HD1	1:K:170:VAL:HG13	1.74	0.52
2:M:473:ARG:HB3	8:M:9483:HOH:O	2.08	0.52
2:M:838:LYS:HD3	2:M:846:LYS:NZ	2.25	0.52
3:N:19:ARG:HH21	3:N:94:GLU:CD	2.13	0.52
3:N:23:TYR:HB2	3:N:49:ILE:O	2.10	0.52
3:N:169:TYR:N	3:N:170:PRO:HD3	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:426:LYS:HE2	3:N:428:LYS:HE3	1.92	0.52
3:N:478:LEU:HD23	3:N:1388:ARG:NH1	2.24	0.52
3:N:675:ARG:HA	3:N:678:GLU:OE2	2.09	0.52
3:N:1093:TYR:CE1	3:N:1097:LYS:HE2	2.45	0.52
3:N:1133:ARG:NH1	8:N:2461:HOH:O	2.42	0.52
5:P:225:GLU:HB3	5:P:226:LYS:HZ2	1.74	0.52
5:P:286:PRO:HB3	5:P:290:GLU:HB2	1.92	0.52
1:A:72:LYS:O	2:C:608:GLY:HA2	2.10	0.52
2:C:158:TYR:CD1	2:C:313:LEU:HG	2.45	0.52
2:C:676:ILE:O	3:D:948:THR:HG22	2.09	0.52
3:D:172:PRO:HG3	3:D:178:LEU:HD22	1.91	0.52
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.92	0.52
3:D:781:PRO:HB3	3:D:785:ILE:CG2	2.40	0.52
3:D:838:ARG:HG3	3:D:838:ARG:HH11	1.75	0.52
3:D:920:LEU:HD21	8:D:9484:HOH:O	2.10	0.52
3:D:1304:LYS:HD3	3:D:1304:LYS:N	2.16	0.52
5:F:392:VAL:CG1	5:F:396:ARG:HB2	2.40	0.52
2:M:580:MET:HE2	2:M:902:ILE:HG12	1.91	0.52
2:M:839:LEU:HD12	2:M:994:ILE:HG21	1.92	0.52
2:M:862:PRO:HG2	2:M:925:TYR:OH	2.10	0.52
2:M:892:LEU:HD21	2:M:967:PHE:CE1	2.45	0.52
2:M:976:ASP:HB3	2:M:979:THR:CG2	2.39	0.52
3:N:187:LYS:HE2	8:N:2337:HOH:O	2.08	0.52
3:N:423:ASP:O	3:N:425:GLY:N	2.34	0.52
3:N:760:ARG:NE	4:O:3:GLU:OE1	2.43	0.52
5:P:123:ASP:HB3	5:P:125:ASP:OD1	2.10	0.52
2:C:682:TYR:HA	3:D:635:PRO:HG2	1.92	0.52
2:C:770:GLU:CG	3:D:65:ARG:HH22	2.11	0.52
2:C:896:PHE:CE2	2:C:925:TYR:HB2	2.44	0.52
2:C:1032:PHE:CD1	2:C:1052:MET:HG2	2.44	0.52
8:C:9560:HOH:O	5:F:405:LEU:HD22	2.09	0.52
3:D:416:ALA:HB3	8:D:2272:HOH:O	2.10	0.52
3:D:1381:VAL:O	3:D:1389:LEU:O	2.28	0.52
8:D:9635:HOH:O	5:F:101:GLU:HG3	2.10	0.52
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.92	0.52
1:K:187:GLY:HA2	8:K:2920:HOH:O	2.10	0.52
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.45	0.52
2:M:270:GLY:H	2:M:288:ARG:CZ	2.22	0.52
2:M:512:ARG:HD3	2:M:523:ILE:HD11	1.92	0.52
2:M:554:ASP:OD2	2:M:556:ASN:HB2	2.10	0.52
2:M:572:ILE:CD1	2:M:701:THR:HB	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:714:ASP:N	2:M:818:GLY:O	2.41	0.52
2:M:861:LEU:HD23	2:M:862:PRO:HD2	1.93	0.52
3:N:55:ASP:O	3:N:82:LYS:HA	2.10	0.52
3:N:75:ARG:HB2	8:N:2407:HOH:O	2.10	0.52
3:N:496:LEU:HD21	3:N:500:ARG:HE	1.73	0.52
3:N:638:LYS:HD3	8:N:9823:HOH:O	2.10	0.52
3:N:850:LEU:CD2	3:N:881:LEU:HD13	2.40	0.52
3:N:888:GLU:HB3	8:N:9679:HOH:O	2.09	0.52
3:N:1459:LEU:HD12	3:N:1470:ARG:HH11	1.75	0.52
5:P:147:LEU:HD12	8:P:9554:HOH:O	2.10	0.52
1:A:91:ASN:HB3	8:A:9436:HOH:O	2.09	0.51
2:C:69:LEU:C	2:C:70:GLU:HG3	2.30	0.51
2:C:528:GLU:HB3	8:C:2302:HOH:O	2.09	0.51
2:C:1016:ILE:HG23	3:D:526:PRO:HG2	1.92	0.51
3:D:528:VAL:O	3:D:535:PHE:HA	2.10	0.51
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.40	0.51
3:D:637:LEU:HD11	3:D:642:CYS:HA	1.91	0.51
3:D:1192:LEU:HD22	3:D:1345:GLU:OE2	2.10	0.51
1:L:42:ARG:HG2	1:L:42:ARG:NH1	2.19	0.51
1:L:178:ALA:HB3	1:L:198:ARG:HB2	1.90	0.51
2:M:211:LEU:O	2:M:211:LEU:HG	2.11	0.51
2:M:536:PRO:CB	2:M:906:PHE:HB2	2.38	0.51
2:M:596:TYR:HD1	8:M:2274:HOH:O	1.92	0.51
3:N:12:LEU:HD21	3:N:104:PHE:CE1	2.45	0.51
3:N:163:TYR:OH	3:N:394:LEU:HD21	2.10	0.51
3:N:1286:THR:HB	8:N:2263:HOH:O	2.08	0.51
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.23	0.51
5:P:94:LEU:HD22	5:P:95:THR:N	2.25	0.51
5:P:218:GLN:HA	5:P:221:ILE:HD12	1.91	0.51
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.35	0.51
2:C:1084:SER:HA	8:C:2139:HOH:O	2.09	0.51
3:D:118:LEU:CA	3:D:123:LEU:HD13	2.40	0.51
3:D:411:THR:HG22	8:D:9544:HOH:O	2.10	0.51
3:D:669:ASN:HD22	3:D:672:ALA:H	1.56	0.51
3:D:844:ALA:O	3:D:867:ARG:HB3	2.10	0.51
3:D:1270:ALA:HB3	8:D:9570:HOH:O	2.10	0.51
3:D:1304:LYS:HB2	8:D:9970:HOH:O	2.09	0.51
8:D:2493:HOH:O	5:F:264:MET:HE2	2.10	0.51
1:L:91:ASN:H	1:L:94:LEU:HD13	1.76	0.51
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.25	0.51
3:N:477:LEU:HD21	3:N:495:ARG:HD3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:711:LEU:HD21	8:N:2357:HOH:O	2.09	0.51
3:N:953:ASP:OD2	3:N:1019:PRO:HD2	2.09	0.51
3:N:1020:LEU:HA	3:N:1023:MET:HE3	1.92	0.51
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.10	0.51
3:N:1353:GLN:NE2	3:N:1357:ARG:NE	2.55	0.51
5:P:163:LEU:HD13	5:P:174:LEU:CD2	2.40	0.51
5:P:337:HIS:HA	8:P:9567:HOH:O	2.09	0.51
1:A:156:HIS:CD2	1:A:158:ILE:HG12	2.46	0.51
2:C:225:SER:HB2	2:C:229:MET:CE	2.41	0.51
2:C:358:ARG:HB3	2:C:371:LYS:O	2.10	0.51
2:C:816:LYS:HB2	2:C:819:VAL:CG2	2.40	0.51
2:C:860:HIS:NE2	2:C:975:TYR:HB2	2.25	0.51
2:C:1004:LYS:HE3	2:C:1027:PHE:CE1	2.45	0.51
2:C:1051:GLU:HB3	8:C:9565:HOH:O	2.10	0.51
3:D:131:LYS:HB3	3:D:456:MET:HE3	1.91	0.51
3:D:434:ARG:HB3	8:D:9567:HOH:O	2.09	0.51
3:D:826:PRO:O	3:D:836:VAL:HG13	2.10	0.51
3:D:1241:PHE:O	3:D:1243:THR:N	2.44	0.51
5:F:276:ARG:HB3	8:F:9780:HOH:O	2.10	0.51
5:F:316:SER:C	5:F:318:GLU:N	2.64	0.51
5:F:363:GLU:O	5:F:367:MET:HG2	2.10	0.51
2:M:177:GLU:N	2:M:178:PRO:HD3	2.26	0.51
2:M:379:GLU:O	2:M:383:ARG:HB3	2.11	0.51
3:N:1191:PRO:O	3:N:1373:ARG:HD2	2.10	0.51
3:N:1493:LYS:O	3:N:1497:GLU:HG2	2.10	0.51
2:C:11:GLU:HG2	2:C:537:LYS:HZ1	1.75	0.51
2:C:78:PHE:HB3	2:C:79:PRO:CD	2.41	0.51
3:D:164:GLY:HA2	8:D:9590:HOH:O	2.09	0.51
3:D:820:GLU:HG2	3:D:825:ALA:O	2.10	0.51
3:D:838:ARG:HD3	3:D:874:GLU:HB3	1.93	0.51
3:D:983:LEU:HA	3:D:987:GLU:OE2	2.09	0.51
5:F:194:LEU:HD23	8:F:9810:HOH:O	2.10	0.51
5:F:287:THR:O	5:F:289:GLU:N	2.44	0.51
5:F:392:VAL:HG22	8:F:9801:HOH:O	2.10	0.51
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.93	0.51
2:M:25:SER:HB2	2:M:335:THR:OG1	2.10	0.51
2:M:266:ARG:HG3	2:M:266:ARG:NH1	2.24	0.51
2:M:1029:GLY:HA2	8:M:2100:HOH:O	2.10	0.51
3:N:12:LEU:HD11	3:N:104:PHE:CE1	2.46	0.51
3:N:1068:LEU:HD23	3:N:1072:ILE:HD13	1.92	0.51
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1209:LEU:HB3	3:N:1211:MET:HB2	1.93	0.51
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.93	0.51
3:N:1357:ARG:HG2	8:N:2014:HOH:O	2.09	0.51
3:N:1381:VAL:O	3:N:1389:LEU:O	2.29	0.51
3:N:1397:LYS:HZ2	3:N:1432:LYS:HB3	1.74	0.51
3:N:1441:GLN:O	3:N:1441:GLN:HG3	2.11	0.51
5:P:135:ILE:HG12	5:P:178:ARG:HD3	1.92	0.51
5:P:402:ASN:HB2	8:P:9753:HOH:O	2.09	0.51
2:C:2:GLU:HB2	8:C:2326:HOH:O	2.09	0.51
2:C:610:ARG:HB2	8:C:9839:HOH:O	2.10	0.51
2:C:620:LEU:HD23	8:C:2191:HOH:O	2.09	0.51
2:C:939:ARG:HE	2:C:939:ARG:N	2.08	0.51
2:C:1030:GLN:OE1	3:D:628:ARG:HB2	2.10	0.51
3:D:781:PRO:HB2	3:D:911:LEU:HD23	1.91	0.51
3:D:894:LYS:O	3:D:898:GLU:HG3	2.09	0.51
3:D:1350:GLU:O	3:D:1354:LYS:HG2	2.11	0.51
3:D:1429:LEU:HD11	8:D:9681:HOH:O	2.10	0.51
4:E:63:TRP:O	4:E:67:GLU:HG3	2.10	0.51
5:F:137:GLY:HA2	5:F:140:ARG:HH22	1.75	0.51
1:L:184:THR:O	1:L:192:LEU:HB2	2.11	0.51
2:M:418:LEU:HD21	8:M:2225:HOH:O	2.10	0.51
2:M:612:VAL:HG21	8:M:9617:HOH:O	2.10	0.51
2:M:616:GLU:OE1	2:M:616:GLU:HA	2.11	0.51
2:M:686:ASP:N	8:N:2331:HOH:O	2.43	0.51
8:M:9948:HOH:O	5:P:354:LEU:HD11	2.10	0.51
3:N:36:THR:CG2	3:N:38:LYS:HG3	2.38	0.51
3:N:154:THR:HG22	3:N:156:GLU:HG2	1.92	0.51
3:N:779:ALA:O	3:N:931:LEU:HD22	2.11	0.51
3:N:965:GLU:HA	3:N:968:ASP:HB2	1.93	0.51
3:N:970:LYS:HD2	3:N:995:LEU:HD13	1.93	0.51
3:N:1074:SER:O	3:N:1077:ALA:HB3	2.11	0.51
3:N:1459:LEU:HD12	3:N:1470:ARG:NH1	2.24	0.51
3:N:1463:LYS:HG2	8:N:9565:HOH:O	2.09	0.51
3:N:1498:ALA:HA	3:N:1501:GLU:OE2	2.11	0.51
5:P:133:ALA:O	5:P:137:GLY:O	2.27	0.51
5:P:161:GLN:HA	5:P:164:LYS:HD2	1.91	0.51
5:P:372:ARG:O	5:P:377:ASP:O	2.29	0.51
1:A:143:ARG:HH21	1:A:158:ILE:HD12	1.76	0.51
1:B:127:LEU:HD12	1:B:128:HIS:H	1.75	0.51
2:C:78:PHE:HB3	2:C:79:PRO:HD2	1.92	0.51
2:C:191:PHE:CE1	2:C:238:LEU:HD21	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:435:TYR:C	2:C:437:ARG:N	2.64	0.51
2:C:480:THR:HG22	2:C:482:GLU:N	2.23	0.51
2:C:579:VAL:HG11	2:C:887:GLU:HG3	1.91	0.51
2:C:674:VAL:HB	2:C:869:VAL:HG13	1.91	0.51
2:C:1054:THR:HG23	2:C:1059:ASP:CB	2.41	0.51
3:D:36:THR:C	3:D:38:LYS:H	2.13	0.51
3:D:173:PRO:HG2	3:D:200:ASP:OD2	2.11	0.51
3:D:496:LEU:HD12	8:D:9706:HOH:O	2.11	0.51
3:D:590:PRO:HD2	8:D:9687:HOH:O	2.11	0.51
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.90	0.51
5:F:368:VAL:HG13	5:F:388:ALA:O	2.11	0.51
1:K:17:GLY:HA3	8:K:1202:HOH:O	2.09	0.51
1:L:120:VAL:HG23	8:L:4092:HOH:O	2.10	0.51
2:M:341:THR:HB	2:M:345:ARG:NH2	2.26	0.51
2:M:396:ASP:OD1	2:M:402:SER:HB2	2.10	0.51
2:M:480:THR:HA	8:M:9505:HOH:O	2.10	0.51
3:N:12:LEU:HD11	3:N:104:PHE:HE1	1.75	0.51
3:N:14:SER:HB3	3:N:511:TRP:CE2	2.45	0.51
3:N:22:SER:OG	3:N:91:GLY:HA2	2.10	0.51
3:N:162:ARG:HA	3:N:449:SER:HB3	1.92	0.51
3:N:814:ALA:O	3:N:818:ARG:HG3	2.11	0.51
3:N:1379:VAL:HG11	3:N:1395:LEU:HD23	1.92	0.51
5:P:367:MET:HA	5:P:370:LYS:HD3	1.93	0.51
2:C:108:ILE:HD13	8:C:9686:HOH:O	2.09	0.51
2:C:127:PHE:O	2:C:133:ASP:HA	2.11	0.51
2:C:197:LEU:CD1	2:C:207:LEU:HD21	2.41	0.51
2:C:250:ARG:NE	2:C:253:ALA:CB	2.73	0.51
2:C:332:ARG:HE	2:C:464:LEU:HD11	1.76	0.51
2:C:648:ARG:HB2	8:C:9859:HOH:O	2.09	0.51
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.46	0.51
3:D:36:THR:HG22	3:D:38:LYS:HG3	1.93	0.51
3:D:152:LEU:HD21	8:D:2093:HOH:O	2.11	0.51
3:D:432:TYR:HA	3:D:448:GLU:O	2.11	0.51
3:D:1215:VAL:HB	8:D:9589:HOH:O	2.09	0.51
5:F:372:ARG:O	5:F:377:ASP:O	2.29	0.51
8:L:4017:HOH:O	3:N:851:LEU:HD11	2.11	0.51
2:M:178:PRO:HB3	8:M:9974:HOH:O	2.10	0.51
2:M:244:PRO:HD2	2:M:245:GLY:N	2.18	0.51
2:M:707:ARG:CZ	2:M:824:ARG:HH12	2.24	0.51
3:N:95:LEU:HD11	3:N:517:VAL:HG23	1.92	0.51
3:N:96:ALA:H	3:N:551:ASN:ND2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:96:ALA:N	3:N:551:ASN:ND2	2.59	0.51
3:N:510:GLU:O	3:N:513:ILE:HD12	2.11	0.51
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.31	0.51
3:N:1144:LEU:HD22	8:N:2033:HOH:O	2.10	0.51
5:P:306:GLU:O	5:P:310:ILE:HG13	2.10	0.51
5:P:372:ARG:NH2	8:P:9689:HOH:O	2.44	0.51
1:B:19:GLU:HG3	1:B:201:THR:O	2.11	0.51
1:B:108:GLU:HB3	1:B:128:HIS:HE1	1.76	0.51
2:C:110:GLU:H	2:C:368:THR:HG21	1.76	0.51
2:C:686:ASP:O	3:D:740:PHE:HB2	2.11	0.51
2:C:689:VAL:HB	2:C:870:ILE:HD12	1.93	0.51
2:C:848:VAL:HB	3:D:740:PHE:O	2.10	0.51
2:C:1083:GLU:O	2:C:1087:VAL:HG23	2.10	0.51
3:D:601:ARG:HH22	3:D:611:GLN:HB2	1.75	0.51
3:D:633:VAL:C	3:D:635:PRO:HD3	2.31	0.51
3:D:1087:ARG:C	3:D:1089:ALA:N	2.64	0.51
3:D:1422:MET:CE	3:D:1427:SER:HA	2.41	0.51
2:M:252:LYS:HG2	2:M:296:GLY:HA2	1.93	0.51
2:M:266:ARG:HA	8:M:9486:HOH:O	2.10	0.51
2:M:552:HIS:CE1	2:M:886:LEU:HD13	2.45	0.51
2:M:599:GLU:HG3	2:M:600:ASP:OD2	2.11	0.51
2:M:604:ALA:HB3	2:M:612:VAL:O	2.10	0.51
2:M:707:ARG:CD	2:M:824:ARG:HH11	2.24	0.51
2:M:787:ASP:HA	8:M:2208:HOH:O	2.10	0.51
3:N:47:GLU:HA	3:N:51:GLY:O	2.10	0.51
3:N:107:ASP:HB2	8:N:9484:HOH:O	2.09	0.51
3:N:404:GLU:HB2	3:N:414:ARG:NH2	2.26	0.51
3:N:459:GLU:HB2	8:N:9942:HOH:O	2.11	0.51
3:N:1242:HIS:CE1	3:N:1266:ARG:HD2	2.45	0.51
3:N:1274:ILE:CG1	3:N:1334:GLN:HE21	2.22	0.51
4:O:54:LEU:O	4:O:54:LEU:HD23	2.10	0.51
5:P:82:ARG:HB3	8:P:9558:HOH:O	2.09	0.51
2:C:4:LYS:HA	8:C:9926:HOH:O	2.11	0.51
2:C:188:LYS:HE2	2:C:188:LYS:C	2.31	0.51
2:C:290:LEU:HB2	8:C:9836:HOH:O	2.10	0.51
2:C:832:LYS:HD2	8:C:2228:HOH:O	2.11	0.51
3:D:402:PRO:HG2	3:D:444:VAL:HG11	1.93	0.51
3:D:416:ALA:HB2	8:D:9825:HOH:O	2.10	0.51
3:D:650:LEU:HD12	3:D:657:LEU:HD23	1.93	0.51
3:D:1127:GLU:HB2	8:D:2519:HOH:O	2.11	0.51
3:D:1459:LEU:HD11	3:D:1468:LEU:HD12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:254:GLN:HB3	8:F:9518:HOH:O	2.09	0.51
1:K:30:ARG:HA	8:K:1905:HOH:O	2.10	0.51
2:M:383:ARG:CZ	8:M:9872:HOH:O	2.58	0.51
2:M:640:ARG:HB3	2:M:640:ARG:HH11	1.74	0.51
2:M:751:PRO:HA	2:M:792:VAL:HG12	1.93	0.51
3:N:77:GLY:O	3:N:78:VAL:HG23	2.11	0.51
3:N:466:LYS:CG	3:N:510:GLU:HG2	2.41	0.51
3:N:754:PHE:HA	4:O:24:ALA:HB1	1.93	0.51
3:N:850:LEU:HD22	3:N:884:ARG:HH22	1.75	0.51
5:P:148:LYS:O	5:P:148:LYS:HG2	2.11	0.51
1:A:127:LEU:HD12	1:A:128:HIS:N	2.26	0.51
1:A:177:VAL:HG12	8:A:9451:HOH:O	2.09	0.51
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.93	0.51
2:C:461:VAL:CG1	2:C:465:GLY:HA2	2.31	0.51
3:D:434:ARG:HB2	3:D:447:VAL:CG1	2.41	0.51
3:D:907:GLU:HG3	8:D:2030:HOH:O	2.10	0.51
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.92	0.51
3:D:1364:HIS:NE2	3:D:1366:LYS:HE3	2.26	0.51
5:F:316:SER:C	5:F:318:GLU:H	2.13	0.51
1:K:173:PRO:O	1:K:201:THR:HG23	2.11	0.51
2:M:34:VAL:HG22	8:M:2159:HOH:O	2.10	0.51
2:M:64:LEU:HB2	2:M:359:MET:HE3	1.92	0.51
2:M:263:ASP:CB	2:M:264:PRO:HD3	2.39	0.51
2:M:285:LEU:HD13	2:M:302:VAL:HG23	1.93	0.51
2:M:906:PHE:CB	3:N:1067:VAL:HG22	2.41	0.51
3:N:17:LYS:HG2	8:N:9686:HOH:O	2.10	0.51
3:N:81:THR:HB	3:N:85:VAL:HG22	1.93	0.51
3:N:519:VAL:HG13	3:N:544:TYR:CZ	2.46	0.51
3:N:768:ASN:HB3	8:N:2357:HOH:O	2.10	0.51
3:N:850:LEU:HD22	3:N:884:ARG:NH2	2.26	0.51
3:N:873:LEU:HD11	8:N:2008:HOH:O	2.10	0.51
1:A:77:GLU:HG3	8:A:9496:HOH:O	2.10	0.50
2:C:70:GLU:OE1	2:C:97:ARG:HD3	2.11	0.50
2:C:170:PRO:HG2	2:C:258:TYR:HD2	1.76	0.50
2:C:419:THR:HG22	8:C:2202:HOH:O	2.11	0.50
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.46	0.50
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.45	0.50
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.17	0.50
2:C:1115:LEU:HD23	3:D:85:VAL:CG1	2.40	0.50
3:D:34:TYR:CD1	3:D:35:ARG:N	2.79	0.50
3:D:659:LYS:HD3	3:D:659:LYS:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:868:TYR:HE1	3:D:869:MET:SD	2.33	0.50
4:E:48:MET:HG2	8:E:9382:HOH:O	2.11	0.50
5:F:163:LEU:HB3	5:F:174:LEU:CD1	2.41	0.50
2:M:164:PRO:HA	2:M:266:ARG:HH12	1.76	0.50
2:M:264:PRO:HG3	8:M:9995:HOH:O	2.10	0.50
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.93	0.50
2:M:334:ARG:HD3	2:M:339:LEU:HD21	1.94	0.50
2:M:1040:LEU:CD2	2:M:1048:THR:HG22	2.41	0.50
2:M:1092:LEU:HD23	2:M:1099:VAL:CG1	2.37	0.50
3:N:181:ASP:HB2	8:N:2389:HOH:O	2.11	0.50
3:N:820:GLU:HB3	3:N:836:VAL:HG21	1.93	0.50
4:O:42:PRO:HD3	8:O:3641:HOH:O	2.11	0.50
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.41	0.50
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.76	0.50
2:C:98:LEU:O	2:C:109:LYS:HG3	2.11	0.50
2:C:232:GLU:HG3	8:C:9807:HOH:O	2.10	0.50
2:C:798:GLY:H	2:C:827:VAL:HG11	1.75	0.50
1:K:72:LYS:HA	8:M:9524:HOH:O	2.11	0.50
1:L:132:LEU:CD2	1:L:138:LEU:HD22	2.40	0.50
1:L:180:GLN:OE1	1:L:198:ARG:NH2	2.33	0.50
2:M:254:VAL:HG22	8:M:2121:HOH:O	2.10	0.50
2:M:355:VAL:HG13	2:M:356:ARG:N	2.26	0.50
2:M:946:ARG:HD2	2:M:984:GLU:HB2	1.94	0.50
3:N:937:TYR:HA	3:N:940:THR:OG1	2.12	0.50
3:N:1074:SER:HA	8:N:9822:HOH:O	2.10	0.50
3:N:1118:ILE:HD12	3:N:1346:ARG:HE	1.76	0.50
3:N:1249:ALA:HB3	8:N:2022:HOH:O	2.10	0.50
3:N:1304:LYS:HD3	3:N:1304:LYS:N	2.16	0.50
3:N:1491:THR:HG21	4:O:89:MET:SD	2.51	0.50
5:P:412:GLU:OE1	5:P:412:GLU:HA	2.10	0.50
2:C:162:ILE:O	2:C:164:PRO:HD2	2.11	0.50
2:C:615:TYR:HB2	2:C:617:ASP:OD1	2.11	0.50
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.31	0.50
3:D:671:LYS:HG2	8:F:9767:HOH:O	2.12	0.50
3:D:711:LEU:CD1	3:D:778:LEU:HD23	2.42	0.50
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.14	0.50
5:F:88:ILE:HG21	5:F:193:ARG:HD3	1.94	0.50
5:F:339:PRO:HB3	5:F:343:ASP:HB2	1.93	0.50
2:M:10:ARG:NH1	8:M:9832:HOH:O	2.43	0.50
2:M:472:ARG:NH2	8:M:9697:HOH:O	2.43	0.50
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1003:ASP:O	2:M:1005:MET:N	2.44	0.50
3:N:85:VAL:HG12	8:N:9574:HOH:O	2.12	0.50
3:N:127:LEU:CD1	3:N:457:GLY:H	2.24	0.50
3:N:1148:VAL:HG12	3:N:1189:ARG:HG3	1.92	0.50
3:N:1283:ILE:C	3:N:1284:GLU:HG2	2.31	0.50
5:P:372:ARG:NH2	8:P:9523:HOH:O	2.44	0.50
2:C:158:TYR:O	2:C:310:LEU:HD11	2.12	0.50
2:C:194:VAL:HG22	2:C:221:LEU:HD12	1.93	0.50
2:C:578:VAL:HG23	2:C:579:VAL:HG12	1.93	0.50
2:C:582:GLY:N	2:C:584:GLU:OE2	2.44	0.50
3:D:39:PRO:HB3	3:D:45:PHE:C	2.31	0.50
3:D:55:ASP:O	3:D:82:LYS:HA	2.11	0.50
3:D:113:GLY:HA3	3:D:124:GLU:OE2	2.11	0.50
3:D:169:TYR:N	3:D:170:PRO:HD3	2.26	0.50
3:D:513:ILE:HG13	8:D:9594:HOH:O	2.11	0.50
3:D:566:ILE:HG22	5:F:214:GLN:HE22	1.77	0.50
3:D:704:ARG:HD2	3:D:705:ALA:H	1.76	0.50
3:D:864:VAL:HG12	3:D:865:THR:N	2.26	0.50
3:D:919:PHE:HD2	3:D:919:PHE:C	2.15	0.50
5:F:133:ALA:O	5:F:137:GLY:O	2.29	0.50
5:F:225:GLU:HG2	5:F:226:LYS:HZ2	1.77	0.50
5:F:262:VAL:O	5:F:266:GLU:HG3	2.12	0.50
1:K:2:LEU:HD22	8:K:3063:HOH:O	2.12	0.50
2:M:257:VAL:HG22	8:M:9999:HOH:O	2.10	0.50
2:M:393:GLN:NE2	2:M:409:ARG:NH1	2.60	0.50
2:M:474:VAL:HG13	2:M:530:GLU:O	2.11	0.50
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.93	0.50
3:N:214:GLU:HG2	3:N:215:TYR:CE1	2.46	0.50
3:N:729:HIS:HE1	3:N:731:LEU:HG	1.75	0.50
3:N:1381:VAL:HG23	3:N:1391:GLU:HB2	1.92	0.50
2:C:59:LYS:HE3	8:C:9798:HOH:O	2.09	0.50
2:C:678:PRO:HB2	3:D:942:SER:OG	2.11	0.50
2:C:1015:LEU:N	5:F:333:ILE:O	2.44	0.50
2:C:1067:TYR:HE2	5:F:345:ALA:HB2	1.77	0.50
3:D:36:THR:O	3:D:38:LYS:N	2.44	0.50
3:D:119:SER:HB2	3:D:123:LEU:CB	2.41	0.50
3:D:404:GLU:HB3	3:D:414:ARG:HD3	1.92	0.50
3:D:788:GLY:O	3:D:792:ILE:HG22	2.11	0.50
3:D:902:LEU:HD23	8:D:2567:HOH:O	2.10	0.50
3:D:1161:GLU:HG2	3:D:1164:ARG:HB2	1.93	0.50
3:D:1242:HIS:CE1	3:D:1266:ARG:HD3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1379:VAL:HG13	3:D:1395:LEU:HB2	1.93	0.50
1:L:58:ILE:HG21	1:L:68:ILE:HD11	1.92	0.50
1:L:108:GLU:HB2	8:L:2022:HOH:O	2.10	0.50
2:M:242:LEU:HD12	8:M:9620:HOH:O	2.11	0.50
2:M:398:THR:HA	2:M:633:GLN:HG3	1.93	0.50
2:M:503:LEU:HD21	2:M:508:ILE:HD13	1.94	0.50
2:M:717:LEU:HD11	2:M:763:GLY:O	2.10	0.50
3:N:28:LYS:HD2	3:N:41:ARG:HD2	1.94	0.50
3:N:1232:PRO:HB3	3:N:1361:VAL:CG2	2.41	0.50
5:P:282:LEU:HB3	5:P:284:ARG:HB2	1.94	0.50
5:P:356:LYS:HD3	8:P:9751:HOH:O	2.10	0.50
1:A:47:SER:CB	1:A:217:ILE:HD13	2.42	0.50
1:A:156:HIS:CD2	1:A:157:GLY:N	2.79	0.50
1:B:76:VAL:HA	1:B:79:ILE:HG12	1.92	0.50
1:B:132:LEU:HB3	8:B:9645:HOH:O	2.10	0.50
1:B:133:GLU:CG	1:B:134:GLU:H	2.18	0.50
2:C:288:ARG:NE	2:C:288:ARG:CA	2.75	0.50
2:C:516:ARG:HD2	3:D:1068:LEU:HD22	1.94	0.50
3:D:47:GLU:OE1	3:D:59:ALA:HB2	2.11	0.50
3:D:68:PHE:CD2	3:D:68:PHE:N	2.80	0.50
3:D:477:LEU:HD21	3:D:495:ARG:HH11	1.77	0.50
3:D:488:ARG:HB3	8:D:2340:HOH:O	2.10	0.50
3:D:724:GLN:NE2	8:D:9936:HOH:O	2.44	0.50
3:D:858:VAL:HG11	3:D:864:VAL:HG21	1.93	0.50
5:F:151:LEU:HB2	5:F:155:THR:HB	1.93	0.50
5:F:373:LYS:HE2	8:F:9560:HOH:O	2.12	0.50
2:M:443:THR:HG21	2:M:450:GLY:H	1.76	0.50
2:M:493:ARG:HD3	8:M:9690:HOH:O	2.11	0.50
2:M:897:LEU:HB3	2:M:899:GLN:HG2	1.94	0.50
3:N:45:PHE:HD1	3:N:86:ARG:NH2	2.03	0.50
3:N:169:TYR:CG	3:N:169:TYR:O	2.65	0.50
3:N:425:GLY:HA3	5:P:135:ILE:CD1	2.31	0.50
3:N:495:ARG:O	3:N:495:ARG:HG2	2.11	0.50
3:N:1353:GLN:HE21	3:N:1357:ARG:HE	1.54	0.50
5:P:271:LEU:HD23	5:P:295:MET:HG3	1.93	0.50
1:B:17:GLY:HA2	8:B:9562:HOH:O	2.11	0.50
2:C:184:MET:SD	2:C:196:LEU:HD13	2.52	0.50
2:C:374:ASN:O	2:C:377:PRO:HD2	2.12	0.50
2:C:432:ARG:HD3	2:C:432:ARG:H	1.76	0.50
2:C:1004:LYS:O	2:C:1006:HIS:ND1	2.45	0.50
3:D:410:SER:CB	3:D:414:ARG:HH21	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:704:ARG:CD	3:D:705:ALA:H	2.25	0.50
3:D:1105:ILE:HD11	3:D:1374:GLN:OE1	2.11	0.50
5:F:141:VAL:HG13	5:F:142:ARG:N	2.25	0.50
1:K:101:LEU:HB2	1:K:114:PHE:CD2	2.46	0.50
1:L:27:PRO:HG2	1:L:186:LEU:HD12	1.94	0.50
3:N:166:GLN:HG3	3:N:168:THR:OG1	2.12	0.50
3:N:826:PRO:O	3:N:836:VAL:HG13	2.12	0.50
3:N:1376:MET:HE3	3:N:1421:LEU:HD13	1.93	0.50
5:P:129:GLU:CB	5:P:142:ARG:HH22	2.22	0.50
2:C:53:PRO:HG2	8:C:9708:HOH:O	2.10	0.50
2:C:181:VAL:HG12	2:C:182:VAL:N	2.26	0.50
3:D:139:GLY:CA	3:D:452:ILE:HD12	2.38	0.50
3:D:569:ASN:C	3:D:569:ASN:HD22	2.15	0.50
3:D:813:LEU:HD12	3:D:814:ALA:N	2.27	0.50
3:D:920:LEU:HD11	8:D:9608:HOH:O	2.12	0.50
8:D:9740:HOH:O	5:F:136:LEU:HD21	2.12	0.50
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.93	0.50
5:F:346:THR:CG2	5:F:422:LEU:HB3	2.40	0.50
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.46	0.50
2:M:95:TYR:HD2	2:M:114:PHE:HB3	1.72	0.50
2:M:98:LEU:O	2:M:109:LYS:HG3	2.12	0.50
2:M:674:VAL:HB	2:M:869:VAL:HG13	1.93	0.50
2:M:839:LEU:HD21	2:M:849:VAL:HG22	1.93	0.50
2:M:1008:ARG:HD2	2:M:1027:PHE:O	2.12	0.50
3:N:54:LYS:HD3	3:N:57:GLU:CB	2.40	0.50
3:N:75:ARG:HD3	8:N:9538:HOH:O	2.11	0.50
3:N:207:PHE:HB2	8:N:9756:HOH:O	2.11	0.50
3:N:452:ILE:HG21	8:N:9771:HOH:O	2.12	0.50
3:N:502:PHE:CZ	3:N:1452:ILE:HG13	2.45	0.50
3:N:1090:ASP:C	3:N:1092:GLY:N	2.62	0.50
5:P:74:LYS:HD3	8:P:9694:HOH:O	2.12	0.50
1:A:195:LEU:HD12	1:A:196:THR:H	1.76	0.50
2:C:178:PRO:HA	8:C:9721:HOH:O	2.12	0.50
2:C:444:PRO:HB2	2:C:448:ASN:O	2.12	0.50
2:C:472:ARG:HD2	2:C:480:THR:O	2.11	0.50
2:C:988:VAL:HG12	3:D:948:THR:OG1	2.12	0.50
2:C:1021:LEU:HD22	5:F:331:ASP:O	2.12	0.50
2:C:1043:TYR:CE2	3:D:710:ARG:HD3	2.47	0.50
3:D:376:GLU:HA	3:D:384:VAL:HA	1.94	0.50
3:D:728:LEU:HD12	3:D:729:HIS:H	1.77	0.50
3:D:986:ARG:NH1	8:D:2314:HOH:O	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1211:MET:HG2	3:D:1213:ARG:HD2	1.94	0.50
3:D:1472:ILE:HA	8:D:9619:HOH:O	2.10	0.50
3:D:1478:SER:OG	3:D:1480:PHE:HB3	2.12	0.50
5:F:129:GLU:HB3	5:F:142:ARG:NH2	2.27	0.50
1:L:112:ARG:HB2	8:L:5359:HOH:O	2.10	0.50
1:L:116:PRO:HG3	8:L:726:HOH:O	2.10	0.50
1:L:146:ARG:HD2	8:L:1866:HOH:O	2.11	0.50
2:M:404:LEU:O	2:M:408:ARG:HG2	2.11	0.50
2:M:599:GLU:HG3	2:M:600:ASP:H	1.77	0.50
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.47	0.50
3:N:118:LEU:O	3:N:120:ALA:N	2.44	0.50
3:N:601:ARG:HE	3:N:605:ASP:HB3	1.77	0.50
3:N:819:GLY:HA3	8:N:9847:HOH:O	2.11	0.50
3:N:1031:ASN:HB3	3:N:1034:GLN:HB2	1.92	0.50
3:N:1107:VAL:HG22	3:N:1200:VAL:HG12	1.93	0.50
3:N:1236:LEU:HD22	3:N:1355:VAL:HG12	1.93	0.50
3:N:1239:ARG:NH1	8:N:9974:HOH:O	2.41	0.50
3:N:1304:LYS:H	3:N:1304:LYS:CD	2.16	0.50
3:N:1350:GLU:HB3	8:N:9495:HOH:O	2.11	0.50
5:P:223:ALA:HB2	5:P:242:TRP:HB2	1.94	0.50
5:P:295:MET:HB3	5:P:299:TRP:CD1	2.47	0.50
1:A:101:LEU:HB2	1:A:114:PHE:CD2	2.47	0.49
1:B:42:ARG:HG2	1:B:42:ARG:NH1	2.20	0.49
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.94	0.49
2:C:739:GLU:HA	8:C:2058:HOH:O	2.11	0.49
2:C:971:LYS:HE3	8:C:9513:HOH:O	2.11	0.49
2:C:1035:MET:HG3	2:C:1038:TRP:CZ3	2.47	0.49
2:C:1038:TRP:HZ2	3:D:1096:ARG:HD2	1.76	0.49
3:D:47:GLU:HA	3:D:51:GLY:O	2.11	0.49
3:D:191:LEU:CB	3:D:195:VAL:HG21	2.29	0.49
3:D:194:GLY:H	3:D:206:ARG:HA	1.77	0.49
3:D:470:LEU:HB2	3:D:503:LEU:HD11	1.93	0.49
3:D:710:ARG:CG	3:D:711:LEU:HD23	2.37	0.49
3:D:1207:TYR:O	3:D:1213:ARG:O	2.30	0.49
3:D:1327:ARG:NH2	8:D:2130:HOH:O	2.45	0.49
3:D:1459:LEU:HD11	3:D:1468:LEU:CD1	2.41	0.49
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.42	0.49
5:F:94:LEU:HD12	5:F:97:GLU:HB2	1.94	0.49
5:F:300:ASP:CG	5:F:301:ALA:N	2.65	0.49
1:K:86:VAL:HG11	8:K:5289:HOH:O	2.11	0.49
1:L:123:MET:O	1:L:125:PRO:HD3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:196:THR:HG23	1:L:196:THR:O	2.11	0.49
2:M:504:GLU:CB	2:M:507:ARG:HD2	2.41	0.49
3:N:123:LEU:CD2	3:N:152:LEU:HD22	2.37	0.49
3:N:465:LEU:CD2	3:N:468:LEU:HD11	2.34	0.49
3:N:1201:CYS:SG	3:N:1202:GLN:N	2.85	0.49
3:N:1236:LEU:HD21	3:N:1356:TYR:HD2	1.76	0.49
3:N:1377:LYS:HE2	3:N:1378:TYR:CE1	2.47	0.49
5:P:82:ARG:HD2	8:P:9475:HOH:O	2.12	0.49
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.93	0.49
5:P:205:ARG:CG	5:P:251:ILE:HD13	2.41	0.49
5:P:214:GLN:O	5:P:217:ASN:HB2	2.11	0.49
5:P:396:ARG:O	5:P:399:GLN:HB2	2.12	0.49
1:B:196:THR:HG23	1:B:196:THR:O	2.12	0.49
2:C:41:ASN:HD22	2:C:41:ASN:H	1.59	0.49
2:C:757:GLY:HA2	2:C:789:SER:HB3	1.94	0.49
2:C:780:GLU:HG3	2:C:781:LYS:H	1.77	0.49
2:C:885:ILE:HG23	3:D:949:ILE:O	2.10	0.49
3:D:141:ILE:CD1	3:D:449:SER:HA	2.38	0.49
3:D:153:LEU:HD12	3:D:158:TYR:HB2	1.94	0.49
3:D:651:GLU:OE1	3:D:651:GLU:HA	2.12	0.49
3:D:989:TYR:CZ	3:D:993:LEU:HD11	2.46	0.49
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.94	0.49
4:E:40:LEU:C	4:E:45:ARG:HG3	2.33	0.49
5:F:94:LEU:CD1	5:F:96:LEU:H	2.19	0.49
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.42	0.49
5:F:303:ARG:HA	8:F:9545:HOH:O	2.12	0.49
1:L:91:ASN:OD1	1:L:93:SER:HB2	2.13	0.49
2:M:697:ARG:O	2:M:699:PHE:N	2.44	0.49
2:M:782:ALA:HB2	8:M:2224:HOH:O	2.11	0.49
2:M:1031:ARG:HG2	3:N:621:LYS:O	2.12	0.49
3:N:8:VAL:O	3:N:1434:TRP:HH2	1.95	0.49
3:N:107:ASP:HA	8:N:2416:HOH:O	2.11	0.49
3:N:140:ALA:HA	8:N:9588:HOH:O	2.12	0.49
3:N:890:VAL:O	3:N:890:VAL:HG23	2.12	0.49
3:N:1280:VAL:HG13	3:N:1316:GLY:O	2.11	0.49
5:P:120:THR:HG22	5:P:122:LEU:HD13	1.94	0.49
5:P:163:LEU:CD2	5:P:174:LEU:HG	2.36	0.49
5:P:416:ARG:NH1	5:P:419:ARG:HB3	2.27	0.49
2:C:136:ILE:HG22	2:C:336:VAL:HG22	1.93	0.49
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.92	0.49
2:C:704:HIS:HB3	2:C:831:ARG:NH1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:710:ILE:CD1	2:C:790:LEU:HB2	2.36	0.49
2:C:1042:ALA:HB2	3:D:1223:ILE:HG22	1.94	0.49
3:D:565:ILE:H	3:D:565:ILE:HD12	1.76	0.49
3:D:671:LYS:HE3	5:F:421:PHE:O	2.12	0.49
3:D:683:ILE:HG22	3:D:687:VAL:CG2	2.39	0.49
3:D:1092:GLY:O	3:D:1096:ARG:HD3	2.11	0.49
1:L:137:ARG:HH12	1:L:139:ASN:HB2	1.75	0.49
2:M:64:LEU:HD22	2:M:359:MET:CG	2.37	0.49
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.94	0.49
2:M:283:ILE:HA	8:M:9830:HOH:O	2.12	0.49
2:M:352:ALA:CA	2:M:355:VAL:HG12	2.40	0.49
2:M:496:ILE:O	2:M:515:ALA:HB1	2.12	0.49
2:M:564:MET:SD	2:M:846:LYS:HD2	2.53	0.49
2:M:683:ASN:ND2	2:M:872:ASN:HB2	2.27	0.49
3:N:97:THR:CG2	3:N:571:LYS:HD3	2.42	0.49
3:N:547:LEU:HD11	3:N:578:VAL:HG22	1.93	0.49
3:N:1286:THR:CG2	3:N:1287:GLU:H	2.24	0.49
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.13	0.49
5:P:276:ARG:HH11	5:P:276:ARG:HG3	1.78	0.49
1:B:91:ASN:HB2	1:B:92:PRO:HD2	1.94	0.49
2:C:833:LEU:HD11	2:C:849:VAL:HG21	1.95	0.49
2:C:1005:MET:CE	3:D:645:PRO:HG2	2.42	0.49
2:C:1007:ALA:O	2:C:1027:PHE:HD2	1.96	0.49
2:C:1058:ASP:HB2	3:D:621:LYS:HE3	1.94	0.49
3:D:28:LYS:HD3	3:D:41:ARG:HD2	1.93	0.49
3:D:65:ARG:HD3	5:F:374:GLY:O	2.12	0.49
3:D:418:GLY:HA3	8:D:9466:HOH:O	2.12	0.49
3:D:495:ARG:HD2	8:D:2090:HOH:O	2.12	0.49
3:D:571:LYS:HB2	3:D:571:LYS:NZ	2.26	0.49
3:D:806:PHE:O	3:D:806:PHE:CD1	2.65	0.49
3:D:829:VAL:H	3:D:835:SER:HB2	1.78	0.49
3:D:939:PHE:O	3:D:942:SER:HB3	2.12	0.49
3:D:1020:LEU:HA	3:D:1023:MET:HE2	1.94	0.49
3:D:1164:ARG:NH2	3:D:1170:ASP:OD1	2.45	0.49
3:D:1284:GLU:HB3	8:D:2537:HOH:O	2.10	0.49
3:D:1389:LEU:H	3:D:1389:LEU:CD2	2.12	0.49
3:D:1476:THR:HG23	4:E:21:VAL:HG22	1.93	0.49
1:K:169:ALA:HB1	1:K:171:PHE:CZ	2.47	0.49
2:M:290:LEU:H	2:M:290:LEU:CD2	2.13	0.49
2:M:375:SER:H	5:P:279:GLN:HE22	1.61	0.49
2:M:523:ILE:HD13	8:M:2099:HOH:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:650:ARG:HB2	8:M:9572:HOH:O	2.12	0.49
2:M:728:HIS:CE1	2:M:775:ARG:NH1	2.81	0.49
2:M:897:LEU:CB	2:M:899:GLN:HE21	2.21	0.49
2:M:1066:ALA:O	2:M:1070:ILE:HG13	2.11	0.49
3:N:36:THR:C	3:N:38:LYS:H	2.16	0.49
3:N:421:LEU:HD12	3:N:435:VAL:CG1	2.42	0.49
3:N:559:ALA:HB3	8:N:9490:HOH:O	2.12	0.49
3:N:1357:ARG:HD2	8:N:9692:HOH:O	2.12	0.49
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.11	0.49
4:O:51:LEU:CG	4:O:53:GLY:H	2.17	0.49
5:P:156:VAL:HG12	8:P:9471:HOH:O	2.11	0.49
2:C:501:THR:O	2:C:503:LEU:HD23	2.13	0.49
2:C:944:LEU:HD22	2:C:962:GLN:OE1	2.13	0.49
3:D:165:LYS:HD2	8:D:2157:HOH:O	2.12	0.49
3:D:168:THR:HB	3:D:393:ILE:CG1	2.42	0.49
3:D:572:ARG:HE	5:F:80:PRO:HG3	1.77	0.49
3:D:573:MET:SD	5:F:210:LEU:HB3	2.52	0.49
3:D:1089:ALA:HA	8:D:2088:HOH:O	2.11	0.49
3:D:1280:VAL:HG13	3:D:1316:GLY:O	2.13	0.49
5:F:361:LEU:CD2	5:F:404:ALA:HB1	2.43	0.49
1:K:33:GLY:O	1:K:195:LEU:HD22	2.13	0.49
1:K:61:VAL:HG11	1:K:75:VAL:HG21	1.93	0.49
1:K:183:ASP:OD1	2:M:938:LYS:HE3	2.13	0.49
2:M:204:GLN:OE1	2:M:222:MET:HB3	2.12	0.49
2:M:1008:ARG:HH12	3:N:624:ASP:CG	2.15	0.49
3:N:438:ASP:OD2	3:N:440:VAL:HB	2.12	0.49
3:N:921:ARG:HG2	8:N:9891:HOH:O	2.11	0.49
3:N:1462:LEU:HD21	3:N:1474:ALA:HB2	1.93	0.49
2:C:73:LEU:CD2	2:C:94:LEU:HB2	2.42	0.49
2:C:109:LYS:HE3	8:C:9787:HOH:O	2.12	0.49
2:C:141:HIS:O	2:C:332:ARG:N	2.44	0.49
2:C:276:LYS:O	2:C:280:LYS:HG3	2.12	0.49
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.93	0.49
3:D:445:ARG:HG2	3:D:445:ARG:HH11	1.77	0.49
3:D:473:LEU:HD11	3:D:495:ARG:NH2	2.27	0.49
3:D:669:ASN:O	3:D:672:ALA:HB3	2.12	0.49
3:D:1194:CYS:HB3	3:D:1373:ARG:CZ	2.42	0.49
3:D:1389:LEU:HG	8:D:9868:HOH:O	2.12	0.49
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.27	0.49
5:F:148:LYS:HA	8:F:9536:HOH:O	2.11	0.49
1:L:139:ASN:HB3	8:L:1052:HOH:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:176:ARG:HH22	3:N:884:ARG:NE	2.10	0.49
2:M:413:LEU:H	2:M:413:LEU:HD12	1.77	0.49
3:N:177:ALA:CB	3:N:199:LEU:HD13	2.41	0.49
3:N:212:ARG:HD3	3:N:394:LEU:HD13	1.95	0.49
3:N:481:MET:HE3	3:N:493:ARG:NH2	2.10	0.49
3:N:764:LEU:HD23	3:N:767:HIS:CD2	2.47	0.49
3:N:1031:ASN:HB3	3:N:1034:GLN:CG	2.43	0.49
3:N:1116:ASN:CG	3:N:1193:THR:HB	2.32	0.49
5:P:94:LEU:HB3	5:P:98:GLU:HG3	1.95	0.49
1:A:176:ARG:HG3	1:A:200:TRP:CE3	2.48	0.49
1:A:187:GLY:HA2	8:A:9484:HOH:O	2.13	0.49
2:C:139:GLN:HG3	2:C:411:SER:O	2.11	0.49
2:C:209:ARG:HB3	8:C:9869:HOH:O	2.12	0.49
2:C:496:ILE:O	2:C:515:ALA:HB1	2.13	0.49
2:C:671:ASN:N	2:C:671:ASN:ND2	2.60	0.49
2:C:721:ARG:HE	2:C:783:ARG:NH2	2.10	0.49
2:C:826:TYR:CD1	2:C:826:TYR:N	2.81	0.49
2:C:945:ARG:HB3	8:D:2414:HOH:O	2.12	0.49
2:C:1083:GLU:OE2	3:D:87:ARG:HD2	2.13	0.49
3:D:543:LEU:O	3:D:546:ARG:HB2	2.12	0.49
3:D:964:LEU:HD22	3:D:1058:ARG:HH11	1.77	0.49
3:D:1103:HIS:CD2	3:D:1463:LYS:H	2.30	0.49
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.48	0.49
3:D:1443:THR:HG23	8:D:2144:HOH:O	2.13	0.49
1:K:159:LYS:HD3	8:K:4474:HOH:O	2.13	0.49
1:L:26:GLU:HB3	1:L:194:LYS:HG3	1.94	0.49
2:M:102:HIS:NE2	2:M:365:ASP:OD2	2.45	0.49
2:M:288:ARG:HB3	8:M:9987:HOH:O	2.12	0.49
2:M:585:GLU:HG3	2:M:665:PHE:HE2	1.77	0.49
2:M:719:PRO:HB3	2:M:820:ARG:CD	2.43	0.49
2:M:724:ARG:O	2:M:734:LEU:HD11	2.13	0.49
2:M:734:LEU:HD13	2:M:737:LEU:HD13	1.94	0.49
2:M:759:THR:HB	2:M:785:VAL:HG11	1.93	0.49
2:M:767:PRO:HA	8:M:9989:HOH:O	2.11	0.49
2:M:774:LEU:HD13	2:M:775:ARG:N	2.27	0.49
2:M:1102:LEU:HD22	3:N:7:LYS:HD2	1.95	0.49
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.77	0.49
3:N:162:ARG:HB2	8:N:9771:HOH:O	2.11	0.49
3:N:626:SER:C	3:N:652:LEU:HD11	2.32	0.49
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.20	0.49
3:N:1118:ILE:HD12	3:N:1346:ARG:NE	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1456:LYS:HD3	8:N:9815:HOH:O	2.13	0.49
4:O:43:GLU:HG2	8:O:5067:HOH:O	2.11	0.49
4:O:54:LEU:HD21	4:O:63:TRP:HE1	1.77	0.49
1:B:184:THR:O	1:B:192:LEU:HB2	2.13	0.49
2:C:154:ARG:O	2:C:156:GLY:N	2.46	0.49
2:C:247:PRO:HB2	8:C:9690:HOH:O	2.12	0.49
2:C:250:ARG:HE	2:C:253:ALA:CB	2.26	0.49
2:C:260:LEU:CB	2:C:291:ALA:HB1	2.42	0.49
2:C:738:ASP:O	2:C:739:GLU:C	2.50	0.49
2:C:876:VAL:N	2:C:877:PRO:HD2	2.27	0.49
3:D:40:GLU:N	8:D:9464:HOH:O	2.45	0.49
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.23	0.49
3:D:131:LYS:HG2	3:D:568:ARG:CD	2.43	0.49
3:D:893:GLU:O	3:D:896:ALA:HB3	2.12	0.49
3:D:1033:GLN:HG3	3:D:1036:ARG:NH1	2.28	0.49
3:D:1149:LEU:HG	3:D:1166:LEU:CD2	2.42	0.49
5:F:134:LYS:HG3	5:F:178:ARG:NH2	2.28	0.49
5:F:137:GLY:HA3	5:F:140:ARG:NH1	2.25	0.49
5:F:162:LYS:NZ	8:F:9643:HOH:O	2.46	0.49
5:F:196:VAL:HG22	5:F:213:ILE:HG21	1.94	0.49
5:F:325:LYS:NZ	8:F:9539:HOH:O	2.46	0.49
5:F:370:LYS:HG2	5:F:371:LEU:N	2.28	0.49
2:M:16:PRO:HB3	2:M:460:ARG:HD2	1.93	0.49
2:M:435:TYR:C	2:M:437:ARG:H	2.15	0.49
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.95	0.49
2:M:607:ASP:HB3	2:M:609:ASN:H	1.78	0.49
2:M:737:LEU:HA	2:M:743:VAL:HA	1.94	0.49
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.48	0.49
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.12	0.49
3:N:36:THR:O	3:N:38:LYS:N	2.46	0.49
3:N:477:LEU:CB	3:N:496:LEU:HD12	2.42	0.49
3:N:601:ARG:CD	3:N:613:ARG:HH21	2.26	0.49
3:N:785:ILE:HG23	3:N:938:GLY:HA3	1.95	0.49
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.48	0.49
3:N:1042:ARG:NH1	3:N:1045:MET:SD	2.81	0.49
3:N:1448:THR:HG21	8:N:9484:HOH:O	2.12	0.49
1:A:57:TYR:HE1	1:A:163:ASN:HB2	1.77	0.49
1:A:86:VAL:HG21	1:A:202:ASP:O	2.13	0.49
1:B:47:SER:HB2	1:B:217:ILE:HD13	1.95	0.49
2:C:604:ALA:HB2	8:C:9615:HOH:O	2.13	0.49
2:C:683:ASN:ND2	2:C:872:ASN:HB2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:952:LEU:HD11	8:C:9620:HOH:O	2.13	0.49
2:C:1005:MET:HE2	3:D:629:SER:HB2	1.93	0.49
3:D:701:LEU:HD21	3:D:763:MET:CE	2.43	0.49
3:D:1236:LEU:HA	3:D:1359:GLN:OE1	2.13	0.49
3:D:1390:LEU:N	8:D:9868:HOH:O	2.45	0.49
4:E:23:VAL:HG12	4:E:24:ALA:N	2.28	0.49
1:K:132:LEU:HD11	1:K:138:LEU:CD2	2.43	0.49
1:L:7:LYS:HA	8:L:2136:HOH:O	2.12	0.49
2:M:110:GLU:HG2	2:M:369:PRO:CG	2.32	0.49
2:M:143:SER:HB2	2:M:276:LYS:HZ3	1.77	0.49
2:M:252:LYS:HZ3	2:M:296:GLY:HA3	1.77	0.49
2:M:437:ARG:HA	2:M:467:ILE:HG21	1.94	0.49
2:M:929:ARG:HG3	2:M:929:ARG:HH11	1.77	0.49
3:N:33:ASN:CG	3:N:40:GLU:HG2	2.33	0.49
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.78	0.49
3:N:569:ASN:O	3:N:573:MET:HG3	2.13	0.49
3:N:698:LYS:HA	3:N:756:GLN:HE21	1.77	0.49
3:N:849:ALA:HB2	8:N:9489:HOH:O	2.12	0.49
3:N:1020:LEU:HD21	3:N:1038:LEU:HD22	1.95	0.49
3:N:1487:VAL:HG12	3:N:1488:ASP:N	2.28	0.49
1:A:154:GLU:N	1:A:154:GLU:OE2	2.46	0.49
2:C:333:ILE:HD11	2:C:410:ILE:HG21	1.95	0.49
2:C:442:GLU:HG2	2:C:454:SER:CB	2.42	0.49
2:C:492:ASP:CA	2:C:518:LYS:HB3	2.36	0.49
2:C:1029:GLY:O	3:D:622:ARG:HD3	2.13	0.49
2:C:1090:LYS:HB3	3:D:520:LEU:HD12	1.95	0.49
3:D:205:TYR:HB3	3:D:393:ILE:HD13	1.94	0.49
3:D:563:PRO:O	3:D:567:ILE:HG13	2.13	0.49
3:D:1047:LYS:HB3	3:D:1048:PRO:HD3	1.94	0.49
3:D:1134:LEU:HD11	3:D:1179:GLU:HG2	1.95	0.49
2:M:184:MET:CE	2:M:186:VAL:HG22	2.43	0.49
2:M:269:LEU:HD23	2:M:269:LEU:N	2.28	0.49
2:M:290:LEU:HD22	2:M:302:VAL:CB	2.43	0.49
2:M:554:ASP:HB3	2:M:880:MET:O	2.13	0.49
2:M:929:ARG:HG3	2:M:929:ARG:NH1	2.28	0.49
2:M:987:ILE:HD12	3:N:948:THR:HG21	1.95	0.49
2:M:1038:TRP:NE1	3:N:1099:VAL:HG11	2.28	0.49
2:M:1050:GLN:CG	2:M:1079:PRO:HG2	2.42	0.49
2:M:1056:LYS:HB3	3:N:624:ASP:H	1.77	0.49
2:M:1090:LYS:NZ	8:M:9629:HOH:O	2.46	0.49
2:M:1109:VAL:HG22	3:N:3:LYS:CB	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:55:ASP:HB3	3:N:82:LYS:HG2	1.95	0.49
3:N:1209:LEU:HD21	4:O:16:LYS:HD2	1.95	0.49
3:N:1243:THR:O	3:N:1269:LYS:CD	2.61	0.49
5:P:160:ASP:O	5:P:163:LEU:HB2	2.12	0.49
5:P:337:HIS:CE1	8:P:9510:HOH:O	2.65	0.49
1:A:224:TYR:HB3	1:B:9:PRO:CB	2.43	0.48
2:C:28:ARG:HG2	2:C:40:GLU:OE1	2.13	0.48
2:C:63:GLY:HA3	2:C:103:LYS:CG	2.43	0.48
2:C:176:VAL:HG12	2:C:182:VAL:HG12	1.94	0.48
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.36	0.48
2:C:679:PHE:CE1	2:C:870:ILE:HD13	2.48	0.48
3:D:19:ARG:HH21	3:D:94:GLU:CD	2.16	0.48
3:D:426:LYS:HE3	8:D:2232:HOH:O	2.13	0.48
3:D:703:ASN:O	3:D:745:MET:HG2	2.12	0.48
3:D:1066:THR:O	3:D:1070:TYR:HB2	2.13	0.48
3:D:1166:LEU:N	3:D:1166:LEU:HD23	2.28	0.48
3:D:1372:VAL:HG22	3:D:1375:MET:HE3	1.94	0.48
4:E:74:VAL:HG13	8:E:9364:HOH:O	2.12	0.48
5:F:288:TYR:HE2	5:F:305:GLU:HG3	1.78	0.48
1:L:24:VAL:CG1	1:L:194:LYS:HE3	2.43	0.48
2:M:418:LEU:HD22	2:M:418:LEU:N	2.28	0.48
2:M:430:VAL:HG23	3:N:1078:ARG:NH2	2.28	0.48
2:M:728:HIS:NE2	5:P:423:ASP:O	2.46	0.48
2:M:782:ALA:O	2:M:784:ASP:N	2.45	0.48
2:M:906:PHE:CE1	3:N:1067:VAL:HA	2.47	0.48
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.95	0.48
2:M:971:LYS:HD2	8:M:2221:HOH:O	2.13	0.48
2:M:1087:VAL:HG22	8:M:9750:HOH:O	2.13	0.48
3:N:715:ALA:O	3:N:764:LEU:HD12	2.12	0.48
5:P:142:ARG:HG3	8:P:9619:HOH:O	2.13	0.48
5:P:274:THR:O	5:P:278:LEU:HG	2.13	0.48
5:P:394:ARG:HG2	5:P:394:ARG:HH11	1.78	0.48
1:A:151:VAL:HB	1:A:169:ALA:HB3	1.96	0.48
2:C:1017:THR:OG1	2:C:1019:GLN:HG2	2.13	0.48
8:C:2291:HOH:O	3:D:859:ASP:HA	2.13	0.48
3:D:1203:LYS:HE3	8:D:2355:HOH:O	2.12	0.48
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.27	0.48
5:F:270:LYS:HD3	5:F:295:MET:HE3	1.95	0.48
1:K:123:MET:O	1:K:125:PRO:HD3	2.12	0.48
1:L:19:GLU:HG3	1:L:201:THR:O	2.13	0.48
2:M:277:ALA:O	2:M:281:LEU:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:309:TYR:O	2:M:313:LEU:N	2.40	0.48
2:M:384:GLU:CD	2:M:388:ARG:HH21	2.16	0.48
2:M:442:GLU:HG2	2:M:454:SER:CB	2.37	0.48
2:M:754:ILE:HD13	2:M:791:ARG:HD3	1.96	0.48
2:M:879:ARG:HD2	2:M:879:ARG:H	1.78	0.48
3:N:9:ARG:HA	3:N:1434:TRP:CH2	2.48	0.48
3:N:172:PRO:HB3	3:N:178:LEU:HD13	1.95	0.48
3:N:769:LEU:CG	3:N:931:LEU:HD11	2.42	0.48
3:N:871:LYS:HE2	8:N:2008:HOH:O	2.13	0.48
3:N:1241:PHE:O	3:N:1257:PRO:HB3	2.12	0.48
3:N:1302:GLU:HG3	8:N:9623:HOH:O	2.13	0.48
3:N:1379:VAL:O	3:N:1392:GLY:HA2	2.12	0.48
5:P:152:ASP:HB2	5:P:153:PRO:CD	2.37	0.48
5:P:350:LEU:HD12	5:P:422:LEU:CB	2.42	0.48
1:A:32:PHE:HZ	1:B:47:SER:HG	1.61	0.48
1:A:191:ASP:O	1:A:192:LEU:HD23	2.13	0.48
2:C:54:ILE:O	2:C:54:ILE:HG13	2.13	0.48
2:C:88:LEU:N	2:C:88:LEU:HD23	2.29	0.48
2:C:98:LEU:HA	8:C:9557:HOH:O	2.13	0.48
2:C:193:LEU:CD1	2:C:307:LEU:HD22	2.43	0.48
2:C:256:TYR:HD1	8:C:9480:HOH:O	1.96	0.48
2:C:328:LEU:H	2:C:433:THR:HG21	1.76	0.48
2:C:356:ARG:HD2	8:C:9550:HOH:O	2.12	0.48
2:C:574:ALA:HB3	8:C:9508:HOH:O	2.13	0.48
2:C:725:ASP:HB2	2:C:783:ARG:NH1	2.29	0.48
2:C:939:ARG:CB	2:C:982:PRO:HG3	2.29	0.48
3:D:65:ARG:CB	5:F:375:LEU:HG	2.44	0.48
3:D:87:ARG:O	3:D:521:PRO:CB	2.48	0.48
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.78	0.48
3:D:179:VAL:HG22	3:D:389:GLU:HG3	1.95	0.48
3:D:653:PHE:CG	3:D:695:ILE:HD11	2.48	0.48
3:D:772:PRO:HB3	3:D:1224:VAL:CG1	2.39	0.48
3:D:786:ILE:HD11	3:D:908:LYS:CB	2.43	0.48
3:D:808:THR:HB	3:D:809:PRO:CD	2.39	0.48
3:D:826:PRO:CD	3:D:829:VAL:HG22	2.36	0.48
3:D:1031:ASN:HB3	3:D:1034:GLN:HB2	1.95	0.48
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.47	0.48
3:D:1283:ILE:C	3:D:1284:GLU:HG2	2.33	0.48
8:D:2111:HOH:O	4:E:11:GLY:HA2	2.14	0.48
1:K:198:ARG:HB2	1:K:200:TRP:CZ3	2.48	0.48
2:M:719:PRO:HB3	2:M:820:ARG:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.94	0.48
3:N:483:HIS:ND1	3:N:483:HIS:N	2.59	0.48
3:N:807:ALA:HB3	8:N:2405:HOH:O	2.13	0.48
3:N:939:PHE:O	3:N:942:SER:HB3	2.13	0.48
5:P:79:ASP:HB3	5:P:80:PRO:CD	2.43	0.48
1:A:169:ALA:HB1	1:A:171:PHE:CZ	2.48	0.48
2:C:96:ALA:HB2	8:C:9663:HOH:O	2.12	0.48
2:C:773:LEU:O	2:C:777:ILE:HG13	2.14	0.48
3:D:527:MET:CE	3:D:535:PHE:HB3	2.44	0.48
3:D:550:ARG:HH11	3:D:550:ARG:HG3	1.77	0.48
3:D:781:PRO:O	3:D:786:ILE:HG13	2.13	0.48
3:D:967:ALA:O	3:D:995:LEU:HD21	2.14	0.48
3:D:1107:VAL:HA	3:D:1200:VAL:O	2.13	0.48
3:D:1152:GLU:N	8:D:9602:HOH:O	2.46	0.48
3:D:1460:ILE:HG12	8:D:9667:HOH:O	2.12	0.48
1:K:67:THR:N	8:K:913:HOH:O	2.46	0.48
1:L:7:LYS:O	1:L:7:LYS:HG2	2.14	0.48
1:L:143:ARG:HH11	1:L:143:ARG:HG3	1.78	0.48
1:L:216:GLU:OE2	1:L:219:ARG:CZ	2.61	0.48
2:M:260:LEU:CB	2:M:291:ALA:HB1	2.43	0.48
2:M:276:LYS:HG3	8:M:9622:HOH:O	2.13	0.48
2:M:328:LEU:HB2	2:M:433:THR:HG21	1.96	0.48
2:M:595:LEU:HD21	2:M:623:TYR:HB3	1.95	0.48
3:N:101:HIS:HD2	3:N:582:LEU:CD1	2.24	0.48
3:N:102:ILE:HD12	3:N:579:ASP:CG	2.33	0.48
3:N:1150:ALA:O	3:N:1151:ARG:HD3	2.12	0.48
3:N:1354:LYS:HB3	8:N:2203:HOH:O	2.14	0.48
2:C:191:PHE:CZ	2:C:238:LEU:HD21	2.49	0.48
2:C:577:PRO:HG3	2:C:993:PHE:CZ	2.49	0.48
2:C:993:PHE:HB3	8:C:2157:HOH:O	2.13	0.48
3:D:543:LEU:HB3	8:D:2488:HOH:O	2.13	0.48
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.94	0.48
3:D:1109:GLU:HA	8:D:9566:HOH:O	2.13	0.48
3:D:1150:ALA:C	3:D:1151:ARG:HG2	2.31	0.48
3:D:1243:THR:HG22	3:D:1244:GLY:H	1.79	0.48
3:D:1278:ASP:N	3:D:1278:ASP:OD1	2.46	0.48
3:D:1354:LYS:HE2	8:D:2197:HOH:O	2.13	0.48
5:F:274:THR:O	5:F:278:LEU:HG	2.13	0.48
5:F:369:LEU:O	5:F:373:LYS:CG	2.61	0.48
1:K:189:ARG:NH2	1:L:155:LYS:HD3	2.28	0.48
1:L:59:GLU:OE1	1:L:137:ARG:NH1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:194:VAL:HG21	2:M:221:LEU:O	2.13	0.48
2:M:352:ALA:C	2:M:355:VAL:HG12	2.34	0.48
2:M:578:VAL:HA	2:M:900:ARG:HD2	1.95	0.48
2:M:705:ILE:HG22	2:M:705:ILE:O	2.12	0.48
2:M:774:LEU:O	2:M:774:LEU:HD22	2.13	0.48
3:N:138:LYS:H	3:N:138:LYS:CD	2.07	0.48
3:N:142:LEU:HG	8:N:9766:HOH:O	2.13	0.48
3:N:194:GLY:H	3:N:206:ARG:HA	1.77	0.48
4:O:52:GLU:OE2	4:O:52:GLU:HA	2.14	0.48
5:P:94:LEU:HB2	8:P:9522:HOH:O	2.14	0.48
5:P:282:LEU:O	5:P:282:LEU:HD13	2.13	0.48
5:P:384:GLU:O	5:P:388:ALA:N	2.46	0.48
1:A:60:ASP:HB3	8:A:9497:HOH:O	2.14	0.48
2:C:428:ARG:HA	2:C:450:GLY:HA3	1.94	0.48
2:C:1100:GLN:HE21	2:C:1100:GLN:HB2	1.49	0.48
3:D:481:MET:SD	3:D:1388:ARG:HG3	2.53	0.48
3:D:500:ARG:NH2	3:D:1388:ARG:HD3	2.29	0.48
3:D:543:LEU:HA	3:D:546:ARG:CG	2.44	0.48
3:D:701:LEU:HD21	3:D:763:MET:HE1	1.94	0.48
4:E:47:LYS:HG3	8:E:9443:HOH:O	2.12	0.48
5:F:331:ASP:HB2	8:F:9658:HOH:O	2.12	0.48
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.14	0.48
2:M:233:GLU:OE2	2:M:237:ARG:HD3	2.13	0.48
2:M:247:PRO:HB2	8:M:2200:HOH:O	2.13	0.48
2:M:336:VAL:CA	2:M:339:LEU:HD12	2.42	0.48
2:M:377:PRO:HG3	8:M:9526:HOH:O	2.13	0.48
2:M:435:TYR:C	2:M:437:ARG:N	2.67	0.48
2:M:568:ALA:CB	2:M:668:LEU:HB3	2.43	0.48
3:N:14:SER:HB3	3:N:511:TRP:CZ2	2.49	0.48
3:N:79:GLU:HG2	3:N:80:VAL:N	2.28	0.48
3:N:819:GLY:O	3:N:822:ALA:HB3	2.13	0.48
4:O:16:LYS:HD3	4:O:17:TYR:CE1	2.49	0.48
4:O:73:LEU:N	8:O:690:HOH:O	2.46	0.48
5:P:266:GLU:HG2	8:P:9618:HOH:O	2.14	0.48
5:P:300:ASP:CG	5:P:301:ALA:N	2.66	0.48
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.78	0.48
1:A:107:LYS:HG2	1:A:108:GLU:N	2.28	0.48
1:A:198:ARG:HH22	2:C:932:GLU:CB	2.21	0.48
2:C:100:LEU:CD2	2:C:368:THR:HA	2.38	0.48
2:C:198:ARG:HD2	8:C:9779:HOH:O	2.13	0.48
2:C:760:SER:O	2:C:786:LYS:N	2.35	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:191:LEU:HD22	3:D:195:VAL:CG1	2.44	0.48
3:D:669:ASN:ND2	3:D:672:ALA:HB2	2.28	0.48
1:K:18:ARG:HH12	1:K:88:ARG:HE	1.62	0.48
2:M:44:ILE:O	2:M:48:PHE:HB2	2.14	0.48
2:M:357:GLU:HA	8:M:2296:HOH:O	2.13	0.48
2:M:731:GLU:HB3	8:M:9529:HOH:O	2.13	0.48
2:M:840:ALA:HB2	2:M:846:LYS:HA	1.95	0.48
2:M:875:GLY:HA2	2:M:879:ARG:HH11	1.77	0.48
2:M:1054:THR:HG22	2:M:1055:LEU:HD23	1.96	0.48
3:N:477:LEU:HD11	3:N:495:ARG:HD3	1.95	0.48
3:N:1171:VAL:O	3:N:1171:VAL:HG12	2.12	0.48
3:N:1243:THR:HG22	8:N:9796:HOH:O	2.14	0.48
3:N:1286:THR:N	8:N:2263:HOH:O	2.46	0.48
3:N:1339:LYS:HG2	3:N:1343:ALA:HB2	1.96	0.48
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.40	0.48
1:A:22:GLU:OE1	2:C:934:PHE:HZ	1.96	0.48
2:C:64:LEU:HD13	2:C:359:MET:CE	2.43	0.48
2:C:274:ARG:NH2	2:C:284:ARG:HG2	2.28	0.48
2:C:734:LEU:HA	2:C:737:LEU:CD1	2.42	0.48
3:D:154:THR:HG22	3:D:155:ASP:N	2.28	0.48
3:D:191:LEU:HD22	3:D:195:VAL:HG11	1.96	0.48
3:D:510:GLU:HB2	3:D:511:TRP:CZ3	2.49	0.48
3:D:526:PRO:HB2	5:F:317:LEU:CD1	2.43	0.48
3:D:1202:GLN:HA	3:D:1215:VAL:CG1	2.44	0.48
4:E:51:LEU:HG	4:E:53:GLY:N	2.19	0.48
1:K:90:LEU:N	8:K:742:HOH:O	2.46	0.48
1:L:126:ASP:HB2	8:L:919:HOH:O	2.13	0.48
1:L:127:LEU:HD12	1:L:128:HIS:H	1.79	0.48
1:L:206:THR:HG23	1:L:207:PRO:HD2	1.94	0.48
2:M:43:GLY:HA2	2:M:341:THR:HG23	1.95	0.48
2:M:76:PRO:HG2	8:M:2023:HOH:O	2.13	0.48
2:M:89:THR:O	2:M:91:GLN:HG3	2.13	0.48
2:M:203:ASP:O	2:M:207:LEU:HB2	2.13	0.48
2:M:444:PRO:HB2	8:M:9543:HOH:O	2.12	0.48
2:M:603:VAL:HG23	2:M:647:GLN:O	2.14	0.48
2:M:726:ILE:HD11	2:M:737:LEU:CD1	2.43	0.48
2:M:860:HIS:NE2	2:M:975:TYR:HB2	2.29	0.48
2:M:881:ASN:HD22	2:M:881:ASN:H	1.61	0.48
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.95	0.48
3:N:98:PRO:HG3	3:N:515:GLU:HB3	1.94	0.48
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:190:GLU:CD	3:N:190:GLU:H	2.17	0.48
3:N:785:ILE:H	3:N:785:ILE:CD1	2.27	0.48
3:N:1096:ARG:HH11	3:N:1096:ARG:CB	2.26	0.48
3:N:1489:GLN:O	3:N:1493:LYS:HG2	2.13	0.48
3:N:1499:ARG:HD3	8:N:9594:HOH:O	2.13	0.48
5:P:371:LEU:HD22	5:P:375:LEU:HD12	1.95	0.48
1:B:20:TYR:HE1	8:B:9522:HOH:O	1.97	0.48
2:C:159:ILE:HG22	2:C:175:GLU:HG3	1.95	0.48
2:C:282:GLY:HA2	2:C:308:ARG:HH21	1.79	0.48
2:C:313:LEU:HD12	2:C:313:LEU:O	2.13	0.48
2:C:451:LEU:HB3	8:C:9584:HOH:O	2.12	0.48
2:C:493:ARG:HA	8:C:2274:HOH:O	2.14	0.48
2:C:708:TYR:N	2:C:708:TYR:CD1	2.82	0.48
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.96	0.48
2:C:1087:VAL:HG12	2:C:1091:GLU:OE1	2.14	0.48
3:D:119:SER:H	3:D:123:LEU:HD13	1.79	0.48
3:D:212:ARG:HB2	3:D:445:ARG:HH22	1.77	0.48
3:D:397:LYS:CE	3:D:399:ARG:HE	2.27	0.48
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.44	0.48
3:D:901:GLN:HG3	8:D:9734:HOH:O	2.14	0.48
3:D:919:PHE:C	3:D:919:PHE:CD2	2.86	0.48
3:D:1092:GLY:O	3:D:1096:ARG:N	2.47	0.48
3:D:1198:TYR:OH	3:D:1397:LYS:HE3	2.13	0.48
3:D:1225:ALA:HA	3:D:1367:HIS:ND1	2.29	0.48
4:E:24:ALA:O	4:E:28:GLN:HG3	2.14	0.48
5:F:102:LEU:O	5:F:106:VAL:HG23	2.13	0.48
5:F:287:THR:C	5:F:289:GLU:H	2.17	0.48
5:F:325:LYS:HB2	8:F:9479:HOH:O	2.14	0.48
5:F:363:GLU:HG2	5:F:364:ARG:N	2.28	0.48
5:F:367:MET:HA	5:F:370:LYS:HD3	1.95	0.48
1:L:214:ALA:HA	1:L:217:ILE:HD12	1.96	0.48
2:M:26:TYR:CE2	2:M:30:LEU:HD21	2.49	0.48
3:N:470:LEU:HB2	8:N:9989:HOH:O	2.13	0.48
3:N:617:ASN:C	3:N:619:LEU:N	2.67	0.48
3:N:699:VAL:CG2	3:N:760:ARG:HB3	2.43	0.48
3:N:780:LYS:HD3	3:N:912:LYS:HG3	1.95	0.48
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.95	0.48
3:N:1046:GLN:N	8:N:9803:HOH:O	2.46	0.48
3:N:1057:VAL:HG13	3:N:1069:GLU:HB3	1.96	0.48
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.14	0.48
4:O:50:THR:HG23	8:O:1851:HOH:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:ARG:HD3	1:A:123:MET:HE3	1.96	0.48
1:A:206:THR:CG2	1:A:209:GLU:H	2.23	0.48
1:B:109:VAL:HG23	1:B:132:LEU:HD13	1.96	0.48
1:B:182:GLU:O	1:B:194:LYS:HB3	2.14	0.48
2:C:21:ILE:H	2:C:21:ILE:HD12	1.79	0.48
2:C:79:PRO:O	2:C:83:CYS:SG	2.69	0.48
2:C:195:LEU:HD12	2:C:234:ALA:HB1	1.96	0.48
2:C:355:VAL:HG13	2:C:356:ARG:N	2.28	0.48
2:C:605:LYS:HB3	2:C:610:ARG:HH12	1.79	0.48
2:C:716:LYS:HD3	2:C:716:LYS:HA	1.70	0.48
3:D:23:TYR:HB2	3:D:49:ILE:O	2.13	0.48
3:D:31:THR:HG23	3:D:45:PHE:CE2	2.49	0.48
3:D:87:ARG:HB2	3:D:523:ASP:HB2	1.94	0.48
3:D:175:VAL:N	8:D:2366:HOH:O	2.44	0.48
3:D:400:VAL:HG12	3:D:401:TYR:HD1	1.78	0.48
3:D:549:ASN:ND2	5:F:254:GLN:NE2	2.62	0.48
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.43	0.48
3:D:891:GLU:O	3:D:893:GLU:N	2.46	0.48
3:D:1087:ARG:NH1	3:D:1234:THR:O	2.46	0.48
5:F:112:ALA:O	5:F:116:LEU:HG	2.13	0.48
5:F:123:ASP:HB3	5:F:125:ASP:OD1	2.14	0.48
1:K:9:PRO:CB	1:L:224:TYR:HB3	2.43	0.48
2:M:114:PHE:CE1	5:P:283:GLY:HA3	2.48	0.48
2:M:177:GLU:HG3	8:M:9679:HOH:O	2.13	0.48
2:M:433:THR:O	2:M:435:TYR:N	2.47	0.48
2:M:724:ARG:HG2	2:M:734:LEU:HD12	1.95	0.48
3:N:702:LEU:HD23	3:N:745:MET:HE1	1.94	0.48
3:N:827:ILE:HG22	3:N:837:GLY:CA	2.44	0.48
3:N:1047:LYS:HG2	3:N:1053:PHE:CE2	2.49	0.48
4:O:45:ARG:NH1	4:O:72:ARG:HH21	2.12	0.48
5:P:252:ALA:HB1	5:P:265:VAL:HG21	1.96	0.48
5:P:333:ILE:HA	5:P:334:PRO:HD3	1.77	0.48
1:A:72:LYS:HE2	2:C:643:VAL:O	2.13	0.47
2:C:35:PRO:HD2	2:C:38:LYS:HG2	1.95	0.47
2:C:113:VAL:HB	2:C:115:LEU:HD23	1.95	0.47
2:C:195:LEU:CD1	2:C:234:ALA:HB1	2.44	0.47
2:C:403:SER:HB2	2:C:407:LYS:NZ	2.29	0.47
2:C:443:THR:O	2:C:559:LEU:HD11	2.14	0.47
2:C:458:TYR:CB	2:C:470:PRO:HG2	2.38	0.47
2:C:780:GLU:HG3	2:C:781:LYS:N	2.29	0.47
2:C:1014:SER:HB3	2:C:1017:THR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:416:ALA:HB1	8:D:2533:HOH:O	2.13	0.47
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.94	0.47
3:D:955:VAL:HG21	3:D:1015:TYR:CD2	2.49	0.47
3:D:969:ARG:HG3	3:D:970:LYS:N	2.29	0.47
3:D:1264:GLU:OE2	3:D:1425:THR:N	2.44	0.47
5:F:171:LYS:HG3	5:F:175:HIS:CD2	2.48	0.47
5:F:216:GLY:O	5:F:243:ILE:HG12	2.13	0.47
1:K:176:ARG:NE	8:K:1966:HOH:O	2.45	0.47
2:M:11:GLU:HG2	2:M:537:LYS:HZ1	1.78	0.47
2:M:154:ARG:O	2:M:156:GLY:N	2.47	0.47
2:M:431:HIS:CD2	2:M:433:THR:OG1	2.67	0.47
2:M:444:PRO:HB3	8:M:9878:HOH:O	2.14	0.47
2:M:575:GLN:HA	2:M:662:GLU:HG3	1.96	0.47
2:M:650:ARG:CG	2:M:653:ASP:HB2	2.44	0.47
2:M:681:GLY:HA2	8:M:2103:HOH:O	2.14	0.47
2:M:773:LEU:HD23	5:P:354:LEU:HD13	1.96	0.47
3:N:104:PHE:CD1	3:N:512:MET:HG2	2.49	0.47
3:N:131:LYS:HD3	3:N:456:MET:HE2	1.96	0.47
3:N:145:VAL:HG13	3:N:146:PRO:CD	2.43	0.47
3:N:669:ASN:O	3:N:672:ALA:HB3	2.13	0.47
3:N:792:ILE:HG23	3:N:793:THR:N	2.29	0.47
3:N:865:THR:HG23	3:N:874:GLU:HG2	1.96	0.47
3:N:970:LYS:HD2	3:N:995:LEU:CD1	2.44	0.47
3:N:1045:MET:HG2	3:N:1073:SER:CA	2.24	0.47
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.96	0.47
3:N:1145:TYR:HA	3:N:1171:VAL:HG21	1.95	0.47
8:N:9520:HOH:O	5:P:136:LEU:HD21	2.14	0.47
4:O:25:LYS:O	4:O:28:GLN:HB2	2.14	0.47
4:O:54:LEU:HG	4:O:58:PRO:CD	2.43	0.47
5:P:395:GLU:HA	5:P:398:ARG:HD2	1.95	0.47
1:A:10:VAL:HG13	1:B:229:GLN:NE2	2.28	0.47
1:A:19:GLU:HG3	1:A:201:THR:O	2.14	0.47
1:A:133:GLU:HG2	1:A:134:GLU:N	2.28	0.47
1:A:170:VAL:CG1	2:C:696:LYS:HD3	2.44	0.47
2:C:142:ARG:NH1	2:C:325:ILE:HG12	2.30	0.47
2:C:164:PRO:HG2	8:C:2104:HOH:O	2.13	0.47
2:C:292:ARG:HD2	2:C:299:LYS:HG2	1.95	0.47
2:C:512:ARG:HD3	2:C:523:ILE:HD11	1.97	0.47
2:C:539:VAL:HG21	3:D:1067:VAL:CG1	2.43	0.47
2:C:841:ASN:HD21	2:C:845:ASN:H	1.63	0.47
2:C:861:LEU:HD23	2:C:862:PRO:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:446:VAL:HG11	8:D:2498:HOH:O	2.13	0.47
3:D:636:GLN:HB3	8:D:2240:HOH:O	2.13	0.47
3:D:932:ASP:HA	3:D:935:LYS:HB3	1.97	0.47
3:D:1155:VAL:HG12	3:D:1156:LEU:N	2.28	0.47
3:D:1495:ILE:HG12	4:E:80:VAL:HG13	1.95	0.47
5:F:136:LEU:HD12	5:F:137:GLY:N	2.29	0.47
2:M:84:ARG:HB3	8:M:9692:HOH:O	2.14	0.47
2:M:442:GLU:HB3	8:M:9508:HOH:O	2.13	0.47
2:M:857:ASP:HB2	2:M:978:ARG:CG	2.33	0.47
3:N:66:GLN:O	3:N:67:ARG:C	2.52	0.47
3:N:205:TYR:HB3	3:N:393:ILE:CD1	2.44	0.47
3:N:440:VAL:HG21	8:N:2202:HOH:O	2.14	0.47
3:N:700:VAL:HG22	3:N:718:PRO:HG3	1.96	0.47
3:N:895:VAL:O	3:N:899:LEU:HD12	2.14	0.47
3:N:1111:ASP:HB3	3:N:1203:LYS:HG3	1.97	0.47
3:N:1274:ILE:HG13	3:N:1334:GLN:HE21	1.79	0.47
3:N:1363:LEU:HD11	3:N:1368:ILE:HD11	1.96	0.47
5:P:413:SER:CB	5:P:419:ARG:NH2	2.74	0.47
1:A:165:ILE:O	1:A:165:ILE:HG13	2.13	0.47
1:B:76:VAL:O	1:B:80:LEU:HB2	2.14	0.47
2:C:136:ILE:CG2	2:C:336:VAL:HG13	2.40	0.47
2:C:151:ASP:CG	2:C:152:PRO:HD2	2.35	0.47
2:C:177:GLU:N	2:C:178:PRO:HD3	2.29	0.47
2:C:455:LEU:HD13	2:C:456:ALA:O	2.15	0.47
2:C:572:ILE:HG12	2:C:701:THR:O	2.14	0.47
2:C:679:PHE:HE1	2:C:859:PRO:HD3	1.79	0.47
2:C:889:HIS:CD2	2:C:970:GLY:HA3	2.50	0.47
2:C:1016:ILE:HD13	2:C:1016:ILE:N	2.29	0.47
2:C:1052:MET:CE	3:D:623:VAL:HG21	2.43	0.47
2:C:1092:LEU:HG	3:D:607:LEU:HD11	1.95	0.47
3:D:22:SER:OG	3:D:91:GLY:HA2	2.14	0.47
3:D:191:LEU:HD13	3:D:195:VAL:HG11	1.96	0.47
3:D:249:TYR:CB	8:D:9465:HOH:O	2.61	0.47
3:D:843:PHE:HB2	3:D:866:VAL:HG22	1.95	0.47
3:D:1005:GLN:HG2	8:D:9660:HOH:O	2.15	0.47
3:D:1062:ARG:C	3:D:1062:ARG:HD3	2.34	0.47
3:D:1263:PHE:O	3:D:1424:VAL:HB	2.13	0.47
5:F:84:TYR:HE1	5:F:196:VAL:CG2	2.26	0.47
1:L:106:PRO:HG2	1:L:134:GLU:OE1	2.15	0.47
1:L:201:THR:HG22	1:L:203:GLY:H	1.79	0.47
2:M:35:PRO:HD2	2:M:38:LYS:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:419:THR:HG23	8:M:9802:HOH:O	2.13	0.47
2:M:430:VAL:O	2:M:430:VAL:HG12	2.14	0.47
2:M:881:ASN:HD22	2:M:881:ASN:N	2.11	0.47
2:M:921:ALA:HB3	2:M:967:PHE:HE2	1.78	0.47
2:M:934:PHE:N	2:M:934:PHE:CD1	2.82	0.47
2:M:1000:MET:HB3	2:M:1002:GLU:HG2	1.96	0.47
3:N:129:PHE:O	3:N:572:ARG:HG3	2.14	0.47
3:N:168:THR:HG23	8:N:2247:HOH:O	2.14	0.47
3:N:550:ARG:NH1	3:N:577:ALA:HB2	2.29	0.47
3:N:871:LYS:HB3	3:N:873:LEU:HG	1.96	0.47
3:N:1087:ARG:NH1	3:N:1238:MET:HG3	2.29	0.47
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.41	0.47
5:P:148:LYS:O	5:P:148:LYS:CG	2.62	0.47
5:P:305:GLU:O	5:P:309:LYS:HG3	2.14	0.47
5:P:377:ASP:O	5:P:378:GLY:C	2.52	0.47
1:A:25:LEU:HD13	1:B:225:PHE:CE2	2.50	0.47
2:C:176:VAL:O	2:C:176:VAL:HG23	2.14	0.47
2:C:352:ALA:CA	2:C:355:VAL:HG12	2.42	0.47
2:C:435:TYR:O	2:C:437:ARG:HG3	2.14	0.47
2:C:626:ARG:H	2:C:639:GLN:HE21	1.63	0.47
2:C:850:ALA:HA	3:D:632:VAL:CG1	2.43	0.47
3:D:166:GLN:HB3	3:D:395:VAL:CG2	2.44	0.47
3:D:181:ASP:OD2	3:D:199:LEU:HD12	2.13	0.47
3:D:441:ARG:HG3	8:D:2480:HOH:O	2.14	0.47
3:D:481:MET:SD	3:D:1388:ARG:CG	3.02	0.47
3:D:523:ASP:O	3:D:526:PRO:HG3	2.14	0.47
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.79	0.47
3:D:1258:ARG:CZ	3:D:1262:LEU:HD11	2.44	0.47
3:D:1465:ASN:HB3	8:D:9619:HOH:O	2.15	0.47
5:F:395:GLU:O	5:F:399:GLN:HB2	2.14	0.47
2:M:264:PRO:HB2	2:M:289:THR:CB	2.43	0.47
2:M:393:GLN:OE1	2:M:393:GLN:N	2.47	0.47
2:M:460:ARG:NH2	8:M:9491:HOH:O	2.46	0.47
2:M:752:GLY:H	2:M:792:VAL:HB	1.78	0.47
3:N:133:ILE:HG21	8:N:9573:HOH:O	2.14	0.47
3:N:496:LEU:HD23	3:N:496:LEU:O	2.14	0.47
3:N:565:ILE:HD12	3:N:565:ILE:N	2.17	0.47
3:N:1124:GLN:HE21	3:N:1133:ARG:HD2	1.80	0.47
8:N:9520:HOH:O	5:P:132:ARG:HD3	2.13	0.47
4:O:36:LYS:HE2	8:O:2142:HOH:O	2.14	0.47
5:P:200:LYS:HG3	5:P:209:PHE:CE1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:225:GLU:HB3	5:P:226:LYS:NZ	2.29	0.47
1:A:14:ARG:HH12	1:A:24:VAL:HG21	1.80	0.47
1:A:18:ARG:HH22	1:A:88:ARG:HH21	1.62	0.47
2:C:227:PHE:HB3	8:C:9481:HOH:O	2.15	0.47
2:C:282:GLY:HA2	2:C:308:ARG:NH2	2.28	0.47
2:C:643:VAL:HG22	2:C:647:GLN:HE22	1.79	0.47
2:C:739:GLU:O	2:C:741:GLY:N	2.47	0.47
2:C:1065:ALA:CB	2:C:1077:PRO:HG2	2.44	0.47
3:D:154:THR:CG2	3:D:155:ASP:N	2.78	0.47
3:D:661:MET:CE	3:D:673:ALA:HB1	2.44	0.47
3:D:890:VAL:CG1	3:D:926:LYS:HG2	2.34	0.47
3:D:899:LEU:HD23	3:D:917:GLN:CB	2.41	0.47
3:D:1429:LEU:HD23	3:D:1429:LEU:O	2.14	0.47
5:F:273:ARG:HD3	8:F:9778:HOH:O	2.13	0.47
5:F:288:TYR:N	5:F:288:TYR:CD1	2.82	0.47
1:L:206:THR:HG21	8:L:5234:HOH:O	2.15	0.47
2:M:169:GLY:HA3	2:M:263:ASP:O	2.14	0.47
2:M:342:ASP:O	2:M:346:VAL:HG23	2.14	0.47
2:M:442:GLU:HG3	8:M:9552:HOH:O	2.13	0.47
2:M:601:GLY:HA3	2:M:615:TYR:HA	1.97	0.47
2:M:728:HIS:CE1	2:M:775:ARG:HH12	2.33	0.47
2:M:848:VAL:HG11	3:N:632:VAL:HG22	1.95	0.47
2:M:1040:LEU:HD23	2:M:1048:THR:HG22	1.96	0.47
2:M:1087:VAL:HG12	2:M:1091:GLU:OE2	2.13	0.47
3:N:30:GLU:HG3	3:N:41:ARG:NE	2.25	0.47
3:N:114:THR:HB	8:N:9878:HOH:O	2.13	0.47
3:N:475:LYS:O	3:N:478:LEU:HB2	2.15	0.47
3:N:558:LEU:HD22	5:P:145:PRO:CG	2.43	0.47
3:N:598:ARG:HD2	8:N:2171:HOH:O	2.14	0.47
3:N:693:GLU:CG	4:O:48:MET:HE1	2.45	0.47
3:N:729:HIS:HB3	3:N:732:VAL:HG22	1.96	0.47
3:N:899:LEU:HD13	3:N:900:ILE:HG23	1.96	0.47
3:N:1295:GLU:HB3	3:N:1300:SER:CB	2.44	0.47
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.97	0.47
5:P:358:LEU:HD11	5:P:370:LYS:HZ2	1.79	0.47
5:P:368:VAL:HG13	5:P:388:ALA:O	2.14	0.47
1:A:30:ARG:NH1	1:B:155:LYS:HZ1	2.06	0.47
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.96	0.47
1:A:171:PHE:O	1:A:173:PRO:HD3	2.14	0.47
1:B:45:LEU:HD21	1:B:177:VAL:HG23	1.96	0.47
2:C:108:ILE:HB	2:C:368:THR:OG1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:910:LYS:HB3	2:C:912:PRO:HD2	1.96	0.47
3:D:74:GLU:H	3:D:74:GLU:HG3	1.33	0.47
3:D:711:LEU:HD12	3:D:778:LEU:HD23	1.96	0.47
3:D:955:VAL:HG21	3:D:1015:TYR:CE2	2.49	0.47
3:D:964:LEU:HD22	3:D:1058:ARG:NH1	2.29	0.47
5:F:110:MET:HG3	8:F:9811:HOH:O	2.13	0.47
5:F:119:ILE:HD13	5:F:170:HIS:CG	2.49	0.47
5:F:140:ARG:NH1	8:F:9661:HOH:O	2.47	0.47
1:K:211:LEU:O	1:K:215:VAL:HG13	2.14	0.47
1:L:161:ARG:HG2	8:L:4097:HOH:O	2.14	0.47
1:L:216:GLU:HA	8:L:1203:HOH:O	2.14	0.47
2:M:577:PRO:HG2	2:M:842:ARG:NH1	2.30	0.47
2:M:589:ARG:HD3	2:M:596:TYR:CZ	2.50	0.47
2:M:854:PRO:C	2:M:856:GLU:N	2.67	0.47
3:N:205:TYR:CD2	3:N:393:ILE:HG12	2.39	0.47
3:N:601:ARG:HD2	3:N:613:ARG:HH21	1.79	0.47
3:N:701:LEU:CD1	3:N:750:PRO:HD3	2.45	0.47
3:N:843:PHE:CD1	3:N:864:VAL:HG11	2.49	0.47
3:N:971:LEU:O	3:N:975:GLU:HG2	2.15	0.47
3:N:1107:VAL:HA	3:N:1200:VAL:O	2.14	0.47
3:N:1314:LYS:NZ	3:N:1317:ASP:HB2	2.29	0.47
4:O:8:LYS:O	4:O:12:MET:HG3	2.15	0.47
5:P:94:LEU:N	5:P:98:GLU:HB2	2.29	0.47
1:A:19:GLU:O	1:A:207:PRO:HG3	2.15	0.47
1:A:156:HIS:HD2	1:A:157:GLY:N	2.12	0.47
2:C:30:LEU:HD12	2:C:30:LEU:O	2.14	0.47
2:C:34:VAL:CB	2:C:38:LYS:HG3	2.33	0.47
2:C:100:LEU:HD22	2:C:367:LEU:HD12	1.96	0.47
2:C:155:PRO:HB3	8:C:2281:HOH:O	2.14	0.47
2:C:167:LYS:HE2	2:C:167:LYS:O	2.15	0.47
2:C:218:VAL:HG23	2:C:311:PHE:HE1	1.78	0.47
2:C:370:ALA:HB1	8:C:2217:HOH:O	2.14	0.47
2:C:525:SER:O	2:C:529:VAL:HG23	2.15	0.47
2:C:636:ALA:HB2	2:C:703:ILE:HG22	1.96	0.47
2:C:675:ALA:O	2:C:870:ILE:HA	2.14	0.47
2:C:683:ASN:HD22	2:C:872:ASN:N	2.12	0.47
2:C:816:LYS:O	2:C:819:VAL:HB	2.15	0.47
2:C:879:ARG:HB3	8:C:9530:HOH:O	2.15	0.47
3:D:30:GLU:HG3	3:D:41:ARG:CG	2.40	0.47
3:D:85:VAL:HB	3:D:89:ARG:HE	1.80	0.47
3:D:100:ALA:N	8:D:9989:HOH:O	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:118:LEU:O	3:D:120:ALA:N	2.48	0.47
3:D:127:LEU:HD13	3:D:457:GLY:H	1.77	0.47
3:D:131:LYS:CA	3:D:456:MET:HG3	2.40	0.47
3:D:145:VAL:CG2	3:D:146:PRO:HD2	2.31	0.47
3:D:186:VAL:HG13	3:D:187:LYS:N	2.29	0.47
3:D:211:VAL:HG13	3:D:393:ILE:HG23	1.97	0.47
3:D:427:VAL:CB	3:D:435:VAL:HB	2.43	0.47
3:D:428:LYS:HB2	8:D:2076:HOH:O	2.15	0.47
3:D:526:PRO:HD2	3:D:538:SER:OG	2.15	0.47
3:D:563:PRO:HG3	5:F:188:ILE:CG2	2.45	0.47
3:D:646:LYS:HA	3:D:720:LEU:CD2	2.41	0.47
3:D:761:ILE:HD11	4:E:23:VAL:HG11	1.96	0.47
3:D:826:PRO:HD2	3:D:829:VAL:CG2	2.41	0.47
3:D:1066:THR:HA	8:D:9463:HOH:O	2.13	0.47
1:K:172:SER:N	8:K:5034:HOH:O	2.48	0.47
1:L:42:ARG:CZ	8:L:4157:HOH:O	2.62	0.47
1:L:111:ALA:HB3	1:L:124:ASN:O	2.15	0.47
1:L:182:GLU:O	1:L:194:LYS:HB3	2.15	0.47
2:M:78:PHE:HB3	2:M:79:PRO:HD2	1.96	0.47
2:M:88:LEU:HD23	2:M:814:GLU:HG2	1.97	0.47
2:M:301:GLU:O	2:M:305:PRO:HG2	2.15	0.47
2:M:304:LEU:HD23	2:M:305:PRO:N	2.30	0.47
2:M:328:LEU:HB2	2:M:433:THR:CG2	2.44	0.47
2:M:332:ARG:HE	2:M:464:LEU:HD11	1.78	0.47
2:M:346:VAL:HG12	2:M:350:ARG:HE	1.80	0.47
2:M:369:PRO:HD2	8:M:2250:HOH:O	2.15	0.47
2:M:474:VAL:HG23	2:M:478:VAL:O	2.15	0.47
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.44	0.47
2:M:569:VAL:HG23	2:M:635:THR:HG22	1.97	0.47
2:M:580:MET:O	2:M:902:ILE:HA	2.14	0.47
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.15	0.47
2:M:1097:LEU:HD21	3:N:103:TRP:CZ3	2.49	0.47
2:M:1115:LEU:HD22	3:N:85:VAL:HG13	1.96	0.47
3:N:96:ALA:H	3:N:551:ASN:HD22	1.62	0.47
3:N:119:SER:CB	3:N:123:LEU:H	2.28	0.47
3:N:556:LYS:CE	5:P:218:GLN:HE22	2.27	0.47
3:N:572:ARG:HB2	8:N:2401:HOH:O	2.13	0.47
3:N:633:VAL:C	3:N:635:PRO:HD3	2.34	0.47
3:N:958:GLU:OE2	3:N:958:GLU:HA	2.14	0.47
3:N:1155:VAL:HG11	3:N:1183:ILE:HD11	1.94	0.47
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:186:LEU:H	1:A:192:LEU:HD12	1.79	0.47
1:A:197:LEU:HD23	1:A:197:LEU:H	1.79	0.47
1:B:221:HIS:HA	1:B:224:TYR:CD2	2.50	0.47
2:C:159:ILE:HG21	2:C:175:GLU:OE1	2.14	0.47
2:C:173:ASP:O	2:C:184:MET:HA	2.14	0.47
2:C:257:VAL:HG12	2:C:263:ASP:CG	2.35	0.47
2:C:523:ILE:O	2:C:523:ILE:HG12	2.14	0.47
2:C:627:ARG:HG3	2:C:628:PHE:N	2.25	0.47
2:C:693:GLU:OE1	2:C:696:LYS:HD2	2.15	0.47
2:C:695:LEU:HD21	2:C:833:LEU:O	2.15	0.47
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.96	0.47
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.44	0.47
3:D:440:VAL:HG12	3:D:441:ARG:N	2.29	0.47
3:D:444:VAL:HG22	3:D:446:VAL:HG23	1.97	0.47
3:D:445:ARG:HG2	3:D:445:ARG:NH1	2.30	0.47
3:D:462:GLN:CG	3:D:513:ILE:HD13	2.38	0.47
3:D:586:ARG:NH1	3:D:1444:THR:HG21	2.29	0.47
3:D:728:LEU:HD22	3:D:745:MET:SD	2.55	0.47
3:D:1357:ARG:HB3	8:D:2102:HOH:O	2.14	0.47
5:F:411:HIS:HA	5:F:414:ARG:HG3	1.96	0.47
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.31	0.47
1:K:88:ARG:HG3	1:K:204:SER:O	2.14	0.47
2:M:193:LEU:HD12	2:M:307:LEU:HD22	1.95	0.47
2:M:721:ARG:HH11	2:M:721:ARG:HG3	1.79	0.47
2:M:841:ASN:HD21	2:M:843:HIS:HB2	1.80	0.47
2:M:1046:ALA:HB2	3:N:1476:THR:H	1.79	0.47
3:N:828:LYS:N	3:N:828:LYS:HD3	2.29	0.47
4:O:45:ARG:HH12	4:O:72:ARG:NH2	2.12	0.47
4:O:70:THR:HG22	4:O:71:GLY:N	2.29	0.47
1:A:182:GLU:O	1:A:194:LYS:HB3	2.15	0.47
2:C:443:THR:HG23	2:C:444:PRO:CD	2.45	0.47
2:C:537:LYS:HD3	2:C:537:LYS:H	1.80	0.47
2:C:547:ILE:HA	2:C:548:PRO:HD3	1.78	0.47
2:C:789:SER:O	2:C:791:ARG:HG2	2.15	0.47
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.15	0.47
2:C:1067:TYR:CE1	2:C:1071:ILE:HD11	2.50	0.47
3:D:54:LYS:HD3	3:D:57:GLU:HB2	1.97	0.47
3:D:441:ARG:HB3	3:D:443:VAL:CG2	2.45	0.47
3:D:838:ARG:HG3	3:D:838:ARG:NH1	2.30	0.47
3:D:999:THR:O	3:D:1002:LYS:HB2	2.15	0.47
3:D:1058:ARG:HH11	3:D:1058:ARG:HG3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1403:LEU:O	3:D:1407:LEU:HB2	2.15	0.47
5:F:384:GLU:N	8:F:9689:HOH:O	2.47	0.47
2:M:288:ARG:NE	2:M:288:ARG:HA	2.28	0.47
2:M:512:ARG:HD2	8:M:9619:HOH:O	2.13	0.47
2:M:672:VAL:HG23	2:M:868:ASP:CB	2.43	0.47
3:N:507:ASN:H	3:N:507:ASN:ND2	2.12	0.47
3:N:679:ARG:HD3	8:N:2378:HOH:O	2.15	0.47
3:N:822:ALA:HA	8:N:9525:HOH:O	2.15	0.47
3:N:899:LEU:HD21	3:N:914:LEU:HD23	1.97	0.47
3:N:935:LYS:HG2	3:N:939:PHE:CE1	2.50	0.47
3:N:958:GLU:N	8:N:2345:HOH:O	2.48	0.47
3:N:960:LYS:HE2	3:N:964:LEU:HD11	1.97	0.47
4:O:93:TYR:HA	4:O:94:PRO:HD3	1.62	0.47
1:A:104:GLU:HG2	1:A:137:ARG:HD2	1.97	0.47
1:B:73:GLU:HB3	8:B:9545:HOH:O	2.15	0.47
3:D:724:GLN:HA	8:D:9554:HOH:O	2.15	0.47
3:D:1377:LYS:HB3	8:D:2457:HOH:O	2.14	0.47
1:K:184:THR:O	1:K:192:LEU:HD12	2.15	0.47
1:L:227:ASN:N	8:L:679:HOH:O	2.48	0.47
2:M:181:VAL:HG11	8:M:9805:HOH:O	2.14	0.47
2:M:266:ARG:HD2	2:M:266:ARG:H	1.80	0.47
2:M:1103:ASP:CG	2:M:1104:GLU:N	2.67	0.47
2:M:1109:VAL:HG22	3:N:3:LYS:HB2	1.97	0.47
3:N:198:ARG:HG2	8:N:9544:HOH:O	2.14	0.47
3:N:447:VAL:HG11	8:N:2391:HOH:O	2.14	0.47
3:N:553:ARG:NH2	5:P:215:GLU:HG2	2.26	0.47
3:N:623:VAL:HA	8:N:2406:HOH:O	2.14	0.47
3:N:1258:ARG:HG3	3:N:1258:ARG:HH11	1.80	0.47
5:P:86:HIS:HB3	8:P:9560:HOH:O	2.14	0.47
5:P:130:VAL:HG21	5:P:159:ILE:CG2	2.42	0.47
2:C:342:ASP:HA	2:C:345:ARG:NE	2.27	0.46
2:C:769:PRO:HD2	8:D:9888:HOH:O	2.15	0.46
2:C:1054:THR:HG21	2:C:1079:PRO:CA	2.45	0.46
3:D:3:LYS:HD3	3:D:3:LYS:N	2.30	0.46
3:D:175:VAL:HG11	8:D:2442:HOH:O	2.14	0.46
3:D:177:ALA:HB1	3:D:199:LEU:CG	2.45	0.46
3:D:177:ALA:CA	3:D:199:LEU:HD13	2.46	0.46
3:D:603:LEU:HD23	3:D:606:ILE:HD12	1.97	0.46
3:D:786:ILE:CD1	3:D:908:LYS:HB3	2.45	0.46
3:D:1066:THR:O	3:D:1070:TYR:N	2.45	0.46
5:F:280:GLN:HG2	5:F:280:GLN:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:316:SER:HB3	5:F:318:GLU:O	2.16	0.46
5:F:356:LYS:HE3	8:F:9501:HOH:O	2.14	0.46
5:F:401:GLU:CG	5:F:402:ASN:OD1	2.62	0.46
5:F:412:GLU:HA	5:F:412:GLU:OE1	2.15	0.46
1:K:6:LEU:C	1:K:8:ALA:N	2.68	0.46
1:L:219:ARG:HG3	8:L:3455:HOH:O	2.15	0.46
2:M:173:ASP:O	2:M:184:MET:HA	2.15	0.46
2:M:260:LEU:HD12	2:M:260:LEU:O	2.14	0.46
2:M:537:LYS:HA	2:M:905:ILE:CD1	2.45	0.46
2:M:573:ARG:HB2	2:M:670:GLN:HE22	1.80	0.46
3:N:83:SER:HA	8:N:9939:HOH:O	2.13	0.46
3:N:450:TYR:O	3:N:452:ILE:N	2.48	0.46
3:N:476:GLU:HG2	8:N:9610:HOH:O	2.15	0.46
3:N:1001:GLU:HG2	8:N:2177:HOH:O	2.15	0.46
3:N:1186:VAL:HG11	8:N:2033:HOH:O	2.15	0.46
3:N:1342:GLU:CD	3:N:1342:GLU:N	2.57	0.46
5:P:135:ILE:HD11	5:P:178:ARG:CB	2.36	0.46
5:P:285:GLU:HG2	8:P:9682:HOH:O	2.15	0.46
1:B:44:LEU:HD23	1:B:48:ILE:CD1	2.46	0.46
2:C:26:TYR:HE1	2:C:340:MET:HE3	1.81	0.46
2:C:464:LEU:HD22	8:C:9598:HOH:O	2.15	0.46
2:C:697:ARG:O	2:C:699:PHE:N	2.46	0.46
2:C:704:HIS:CG	2:C:831:ARG:HH22	2.33	0.46
2:C:817:PRO:C	2:C:819:VAL:H	2.19	0.46
2:C:1066:ALA:O	2:C:1070:ILE:HG13	2.15	0.46
2:C:1096:ALA:HB2	3:D:514:LEU:HD11	1.97	0.46
3:D:177:ALA:HB1	3:D:199:LEU:CB	2.45	0.46
3:D:1441:GLN:HA	8:D:2144:HOH:O	2.15	0.46
1:K:2:LEU:HD11	8:K:5314:HOH:O	2.15	0.46
1:L:62:LEU:HD12	1:L:62:LEU:H	1.81	0.46
1:L:107:LYS:HG2	1:L:108:GLU:N	2.30	0.46
1:L:229:GLN:HG3	8:L:2218:HOH:O	2.13	0.46
2:M:36:PRO:HD2	8:M:9886:HOH:O	2.15	0.46
2:M:61:LYS:HD2	8:M:9710:HOH:O	2.15	0.46
2:M:191:PHE:HE2	2:M:196:LEU:HD12	1.81	0.46
2:M:286:SER:O	2:M:299:LYS:HE3	2.15	0.46
2:M:757:GLY:HA2	2:M:789:SER:OG	2.16	0.46
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.46	0.46
3:N:538:SER:HA	5:P:317:LEU:HB2	1.97	0.46
3:N:1232:PRO:CB	3:N:1361:VAL:HG11	2.44	0.46
3:N:1441:GLN:HB3	8:N:9662:HOH:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:46:PRO:HB3	4:O:54:LEU:CD2	2.45	0.46
5:P:181:GLU:O	5:P:184:ARG:HB3	2.16	0.46
1:A:161:ARG:HH11	1:A:161:ARG:HG3	1.79	0.46
2:C:11:GLU:HG2	2:C:537:LYS:HZ2	1.77	0.46
2:C:31:GLN:HE21	2:C:31:GLN:HB3	1.42	0.46
2:C:304:LEU:HD23	2:C:305:PRO:N	2.31	0.46
2:C:484:VAL:CG1	2:C:486:MET:HG3	2.46	0.46
2:C:815:LEU:HD23	2:C:819:VAL:O	2.14	0.46
3:D:781:PRO:HG2	3:D:911:LEU:HD23	1.98	0.46
3:D:787:LEU:HD21	3:D:947:ILE:HD13	1.97	0.46
3:D:1047:LYS:HG2	3:D:1053:PHE:CE1	2.49	0.46
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.14	0.46
1:K:14:ARG:HA	8:K:2767:HOH:O	2.14	0.46
1:K:43:ILE:HD12	1:L:32:PHE:CZ	2.50	0.46
1:K:90:LEU:HD11	8:K:2043:HOH:O	2.15	0.46
1:L:42:ARG:NE	8:L:4157:HOH:O	2.49	0.46
1:L:80:LEU:HD23	8:N:9812:HOH:O	2.14	0.46
2:M:163:ILE:HG13	2:M:171:TRP:HZ3	1.80	0.46
2:M:689:VAL:HG23	2:M:870:ILE:HB	1.97	0.46
2:M:944:LEU:HD22	2:M:962:GLN:HG2	1.96	0.46
2:M:1019:GLN:NE2	3:N:621:LYS:HE3	2.31	0.46
2:M:1071:ILE:O	3:N:659:LYS:HD3	2.16	0.46
3:N:55:ASP:CB	3:N:82:LYS:HG2	2.46	0.46
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.97	0.46
3:N:1348:LEU:HG	3:N:1375:MET:CE	2.43	0.46
3:N:1495:ILE:HD13	4:O:88:GLU:HG3	1.96	0.46
4:O:48:MET:HG2	4:O:54:LEU:HB2	1.97	0.46
2:C:26:TYR:CE1	2:C:340:MET:HE3	2.51	0.46
2:C:142:ARG:HB2	8:C:9877:HOH:O	2.15	0.46
2:C:260:LEU:HD12	2:C:260:LEU:O	2.14	0.46
2:C:433:THR:O	2:C:435:TYR:N	2.49	0.46
2:C:853:LEU:HD23	2:C:858:MET:HB3	1.97	0.46
2:C:905:ILE:CG2	2:C:906:PHE:N	2.78	0.46
3:D:171:LEU:CD2	3:D:390:PRO:HG3	2.45	0.46
3:D:820:GLU:HA	3:D:825:ALA:O	2.14	0.46
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.98	0.46
5:F:94:LEU:N	5:F:98:GLU:HB2	2.30	0.46
5:F:282:LEU:HD12	5:F:284:ARG:HB2	1.97	0.46
1:K:111:ALA:HB3	1:K:124:ASN:O	2.16	0.46
2:M:78:PHE:HB3	2:M:79:PRO:CD	2.45	0.46
2:M:157:ARG:HB2	8:M:9963:HOH:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:252:LYS:HZ2	2:M:296:GLY:HA3	1.78	0.46
2:M:270:GLY:N	2:M:288:ARG:NH2	2.63	0.46
2:M:345:ARG:HG2	8:M:9798:HOH:O	2.15	0.46
2:M:408:ARG:NH1	2:M:542:VAL:HG23	2.30	0.46
2:M:816:LYS:O	2:M:819:VAL:HB	2.16	0.46
2:M:1031:ARG:HA	3:N:621:LYS:O	2.15	0.46
2:M:1096:ALA:HB1	3:N:13:ALA:HB3	1.98	0.46
3:N:153:LEU:HD23	3:N:153:LEU:H	1.78	0.46
3:N:166:GLN:HG2	3:N:207:PHE:CG	2.49	0.46
3:N:195:VAL:HB	3:N:205:TYR:HB2	1.98	0.46
3:N:205:TYR:HD2	3:N:393:ILE:CG1	2.26	0.46
3:N:412:GLY:O	3:N:421:LEU:HB3	2.16	0.46
3:N:684:LYS:HE2	8:N:2408:HOH:O	2.16	0.46
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.96	0.46
3:N:1115:THR:O	3:N:1151:ARG:NH2	2.48	0.46
5:P:393:THR:HG23	5:P:394:ARG:CD	2.44	0.46
5:P:402:ASN:OD1	5:P:402:ASN:N	2.48	0.46
5:P:405:LEU:HA	5:P:408:LEU:HD22	1.98	0.46
1:A:202:ASP:HA	8:A:9549:HOH:O	2.15	0.46
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.46
1:B:156:HIS:HD2	1:B:157:GLY:N	2.14	0.46
2:C:52:PHE:CE1	2:C:98:LEU:HD21	2.51	0.46
2:C:341:THR:HG23	2:C:345:ARG:HH22	1.81	0.46
2:C:620:LEU:HD23	2:C:620:LEU:O	2.15	0.46
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.57	0.46
2:C:880:MET:N	8:C:9530:HOH:O	2.47	0.46
3:D:72:VAL:HG22	3:D:78:VAL:H	1.81	0.46
3:D:426:LYS:HB3	5:F:134:LYS:O	2.15	0.46
3:D:621:LYS:N	8:D:9762:HOH:O	2.48	0.46
3:D:899:LEU:HB2	3:D:917:GLN:HG2	1.97	0.46
5:F:88:ILE:HD13	5:F:193:ARG:CG	2.45	0.46
5:F:347:GLN:O	5:F:351:SER:HB2	2.16	0.46
1:K:48:ILE:HG22	1:K:173:PRO:HD2	1.98	0.46
2:M:15:LEU:HD12	2:M:15:LEU:N	2.30	0.46
2:M:63:GLY:CA	2:M:103:LYS:HE2	2.46	0.46
2:M:89:THR:N	8:M:9667:HOH:O	2.49	0.46
2:M:129:ILE:HD11	2:M:386:PHE:CD2	2.51	0.46
2:M:217:LEU:HA	8:M:9626:HOH:O	2.16	0.46
2:M:398:THR:N	2:M:633:GLN:OE1	2.48	0.46
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.36	0.46
3:N:22:SER:HA	3:N:90:MET:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:145:VAL:HG12	8:N:2383:HOH:O	2.15	0.46
3:N:523:ASP:O	3:N:526:PRO:HG3	2.15	0.46
3:N:546:ARG:NH1	3:N:550:ARG:HH22	2.14	0.46
3:N:959:GLU:HG3	3:N:1006:ALA:HB1	1.97	0.46
5:P:188:ILE:HD11	5:P:221:ILE:HA	1.97	0.46
5:P:287:THR:O	5:P:289:GLU:N	2.49	0.46
1:A:88:ARG:NE	8:A:9503:HOH:O	2.49	0.46
1:A:222:LEU:CD1	1:B:215:VAL:HB	2.42	0.46
1:B:103:ALA:HB1	8:B:9534:HOH:O	2.16	0.46
2:C:69:LEU:HG	8:C:9557:HOH:O	2.15	0.46
2:C:476:GLY:C	2:C:478:VAL:H	2.19	0.46
2:C:650:ARG:HG2	2:C:653:ASP:HB2	1.97	0.46
2:C:670:GLN:O	2:C:672:VAL:HG12	2.13	0.46
2:C:744:ARG:HD2	8:C:9769:HOH:O	2.16	0.46
2:C:886:LEU:HD23	8:C:9674:HOH:O	2.15	0.46
2:C:953:VAL:CG1	2:C:966:LEU:HD13	2.44	0.46
3:D:66:GLN:O	3:D:67:ARG:C	2.53	0.46
3:D:106:LYS:HE2	3:D:125:GLN:OE1	2.16	0.46
3:D:149:LYS:HE2	3:D:149:LYS:N	2.27	0.46
3:D:177:ALA:HB1	3:D:199:LEU:CD2	2.43	0.46
3:D:1132:LEU:N	8:D:9601:HOH:O	2.48	0.46
3:D:1405:GLU:HG2	8:D:9486:HOH:O	2.15	0.46
5:F:384:GLU:O	5:F:388:ALA:N	2.48	0.46
1:L:172:SER:N	8:L:5023:HOH:O	2.46	0.46
2:M:56:GLU:HB3	8:M:2105:HOH:O	2.15	0.46
2:M:99:GLN:HG3	2:M:99:GLN:O	2.15	0.46
2:M:333:ILE:HD11	2:M:410:ILE:HG21	1.98	0.46
2:M:707:ARG:CZ	2:M:824:ARG:NH1	2.79	0.46
2:M:762:LYS:HZ3	2:M:784:ASP:HB3	1.81	0.46
2:M:901:TYR:CD1	2:M:901:TYR:N	2.82	0.46
2:M:939:ARG:CB	2:M:982:PRO:HG3	2.33	0.46
2:M:950:LEU:HB3	2:M:952:LEU:CD2	2.44	0.46
3:N:41:ARG:HG3	3:N:42:ASP:N	2.31	0.46
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.98	0.46
3:N:116:LEU:HA	8:N:9831:HOH:O	2.15	0.46
3:N:132:TYR:CD1	3:N:132:TYR:N	2.79	0.46
3:N:154:THR:CG2	3:N:156:GLU:HG2	2.45	0.46
3:N:428:LYS:HD3	3:N:451:ASP:OD1	2.16	0.46
3:N:1092:GLY:O	3:N:1096:ARG:N	2.48	0.46
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.45	0.46
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:151:LEU:HB2	5:P:155:THR:HB	1.98	0.46
5:P:316:SER:C	5:P:318:GLU:H	2.19	0.46
5:P:409:LYS:HG3	8:P:9621:HOH:O	2.16	0.46
5:P:415:THR:HG22	5:P:417:LYS:CG	2.46	0.46
2:C:44:ILE:HD11	2:C:340:MET:HE1	1.97	0.46
2:C:274:ARG:HD2	8:C:9567:HOH:O	2.15	0.46
2:C:480:THR:HG23	8:C:9749:HOH:O	2.14	0.46
2:C:500:ASN:HA	8:C:9900:HOH:O	2.16	0.46
3:D:240:GLU:O	3:D:242:LEU:N	2.49	0.46
3:D:525:ARG:HA	3:D:538:SER:CB	2.46	0.46
3:D:632:VAL:O	3:D:727:GLN:HA	2.15	0.46
3:D:701:LEU:O	3:D:747:VAL:HA	2.16	0.46
3:D:1385:GLY:HA2	8:D:9913:HOH:O	2.15	0.46
1:K:44:LEU:HD23	1:K:48:ILE:CD1	2.46	0.46
1:K:94:LEU:HD21	1:K:119:ASP:HB3	1.97	0.46
1:L:62:LEU:HD13	1:L:63:HIS:ND1	2.30	0.46
1:L:74:ASP:HB2	8:L:5263:HOH:O	2.14	0.46
2:M:244:PRO:CD	2:M:245:GLY:N	2.79	0.46
2:M:278:GLU:HB2	8:M:2038:HOH:O	2.15	0.46
2:M:338:GLU:HA	2:M:341:THR:OG1	2.16	0.46
2:M:428:ARG:O	3:N:1078:ARG:NH1	2.48	0.46
2:M:471:TYR:CE2	2:M:496:ILE:HG21	2.50	0.46
2:M:541:SER:HB2	8:M:9853:HOH:O	2.14	0.46
2:M:739:GLU:O	2:M:741:GLY:N	2.49	0.46
2:M:816:LYS:HE3	8:M:9538:HOH:O	2.14	0.46
2:M:876:VAL:O	2:M:879:ARG:O	2.34	0.46
2:M:986:PRO:C	2:M:987:ILE:HD13	2.35	0.46
3:N:139:GLY:N	3:N:147:VAL:HG11	2.30	0.46
3:N:546:ARG:NH2	3:N:576:GLU:OE1	2.48	0.46
3:N:590:PRO:HB3	8:N:2178:HOH:O	2.16	0.46
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.98	0.46
3:N:804:LEU:HD12	3:N:804:LEU:O	2.15	0.46
4:O:12:MET:O	4:O:75:PHE:HZ	1.98	0.46
1:A:89:PHE:HB2	1:A:94:LEU:HD22	1.98	0.46
1:A:154:GLU:H	1:A:154:GLU:CD	2.20	0.46
1:A:183:ASP:HB3	8:A:9448:HOH:O	2.15	0.46
2:C:615:TYR:N	8:C:9571:HOH:O	2.40	0.46
2:C:626:ARG:HD3	8:C:9724:HOH:O	2.16	0.46
2:C:897:LEU:HB3	2:C:899:GLN:CD	2.36	0.46
2:C:1115:LEU:CB	3:D:85:VAL:HG12	2.38	0.46
3:D:81:THR:HG22	3:D:82:LYS:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:389:GLU:HG3	8:D:9925:HOH:O	2.16	0.46
3:D:675:ARG:NH2	5:F:420:ASP:OD2	2.48	0.46
3:D:1087:ARG:C	3:D:1089:ALA:H	2.17	0.46
3:D:1118:ILE:CD1	3:D:1192:LEU:HD12	2.45	0.46
3:D:1118:ILE:HG13	8:D:9509:HOH:O	2.15	0.46
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.96	0.46
4:E:32:ARG:CZ	4:E:32:ARG:HB2	2.46	0.46
5:F:96:LEU:O	5:F:100:VAL:HG23	2.15	0.46
5:F:151:LEU:HG	5:F:155:THR:OG1	2.16	0.46
5:F:265:VAL:HG12	8:F:9687:HOH:O	2.16	0.46
1:K:7:LYS:HG2	1:K:7:LYS:O	2.16	0.46
1:K:19:GLU:HG3	1:K:201:THR:O	2.16	0.46
1:K:171:PHE:HZ	8:K:972:HOH:O	1.97	0.46
2:M:226:VAL:HG13	2:M:227:PHE:CD1	2.50	0.46
2:M:773:LEU:HD23	8:M:9948:HOH:O	2.16	0.46
2:M:909:ALA:HA	2:M:913:GLU:OE1	2.16	0.46
2:M:1064:ASN:HD21	5:P:344:ALA:CB	2.28	0.46
2:M:1106:ASP:CA	3:N:7:LYS:HE3	2.46	0.46
3:N:12:LEU:HD23	3:N:12:LEU:HA	1.74	0.46
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.97	0.46
3:N:960:LYS:HE2	3:N:964:LEU:CD1	2.46	0.46
3:N:1024:ALA:HB2	8:N:9601:HOH:O	2.14	0.46
3:N:1336:LEU:HB2	3:N:1344:VAL:HG21	1.97	0.46
5:P:140:ARG:NH1	5:P:141:VAL:HG23	2.31	0.46
5:P:358:LEU:HD11	5:P:370:LYS:CE	2.45	0.46
5:P:358:LEU:HD11	5:P:370:LYS:CD	2.44	0.46
1:A:173:PRO:O	1:A:201:THR:HG23	2.16	0.46
1:A:192:LEU:HA	8:A:9591:HOH:O	2.15	0.46
2:C:127:PHE:CE1	2:C:386:PHE:HE2	2.34	0.46
2:C:298:PHE:N	2:C:298:PHE:CD1	2.84	0.46
2:C:726:ILE:HG13	2:C:734:LEU:HD21	1.96	0.46
2:C:730:SER:N	8:C:9532:HOH:O	2.49	0.46
3:D:8:VAL:HG12	3:D:1434:TRP:CH2	2.50	0.46
3:D:100:ALA:HB3	8:D:9989:HOH:O	2.15	0.46
3:D:204:LEU:HD12	8:D:2181:HOH:O	2.16	0.46
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.98	0.46
3:D:639:LEU:N	3:D:729:HIS:CD2	2.84	0.46
3:D:710:ARG:HH21	3:D:1224:VAL:CG2	2.28	0.46
3:D:782:SER:O	3:D:786:ILE:HD12	2.15	0.46
3:D:794:GLN:O	3:D:861:GLN:HB3	2.16	0.46
3:D:850:LEU:HD13	3:D:884:ARG:NH2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:906:GLN:OE1	3:D:906:GLN:HA	2.16	0.46
3:D:991:GLN:HG3	8:D:9597:HOH:O	2.16	0.46
3:D:1130:ARG:HD2	8:D:9601:HOH:O	2.14	0.46
3:D:1141:GLU:HG2	3:D:1168:MET:HE2	1.97	0.46
4:E:30:LEU:HD21	4:E:63:TRP:HE3	1.80	0.46
1:L:176:ARG:HH22	3:N:884:ARG:CD	2.28	0.46
2:M:10:ARG:O	2:M:12:VAL:N	2.49	0.46
2:M:247:PRO:HA	2:M:248:PRO:HD3	1.83	0.46
2:M:261:ILE:H	2:M:261:ILE:HG13	1.63	0.46
2:M:352:ALA:O	2:M:356:ARG:HG3	2.16	0.46
2:M:432:ARG:CZ	3:N:1048:PRO:HD2	2.46	0.46
2:M:773:LEU:O	2:M:777:ILE:HG13	2.16	0.46
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.56	0.46
2:M:1046:ALA:HB3	3:N:1476:THR:HB	1.98	0.46
3:N:422:ALA:HB3	3:N:427:VAL:HG13	1.98	0.46
3:N:676:MET:O	3:N:676:MET:SD	2.74	0.46
3:N:737:ASN:C	8:N:9496:HOH:O	2.53	0.46
3:N:806:PHE:O	3:N:806:PHE:CD1	2.68	0.46
3:N:891:GLU:O	3:N:891:GLU:HG3	2.16	0.46
3:N:1057:VAL:HG12	3:N:1069:GLU:OE2	2.15	0.46
5:P:358:LEU:HD23	5:P:358:LEU:C	2.35	0.46
1:A:118:ALA:HB2	8:A:9586:HOH:O	2.15	0.46
1:B:7:LYS:HZ2	1:B:186:LEU:HD13	1.81	0.46
1:B:119:ASP:OD1	1:B:119:ASP:N	2.49	0.46
2:C:31:GLN:HG3	8:C:9887:HOH:O	2.15	0.46
2:C:118:ILE:HA	2:C:119:PRO:HD3	1.85	0.46
2:C:134:ARG:HH12	2:C:392:SER:C	2.20	0.46
2:C:264:PRO:HG2	8:C:9714:HOH:O	2.16	0.46
2:C:338:GLU:HA	2:C:341:THR:CG2	2.43	0.46
2:C:426:ASP:HA	2:C:429:ASP:OD2	2.15	0.46
2:C:571:LEU:HD21	2:C:700:TYR:HD2	1.80	0.46
2:C:679:PHE:CZ	2:C:853:LEU:HD21	2.51	0.46
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.30	0.46
2:C:1054:THR:HG22	2:C:1055:LEU:HD23	1.97	0.46
3:D:182:GLY:O	3:D:186:VAL:HB	2.16	0.46
3:D:859:ASP:HB3	3:D:861:GLN:HE22	1.81	0.46
3:D:873:LEU:N	8:D:2489:HOH:O	2.48	0.46
3:D:1346:ARG:HA	3:D:1346:ARG:NH1	2.31	0.46
3:D:1393:GLN:NE2	8:D:2138:HOH:O	2.46	0.46
3:D:1436:SER:OG	3:D:1463:LYS:HD2	2.16	0.46
5:F:377:ASP:O	5:F:378:GLY:C	2.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:14:ARG:HH12	1:K:24:VAL:HG21	1.81	0.46
1:K:62:LEU:H	1:K:62:LEU:HD12	1.81	0.46
1:K:219:ARG:HH12	1:K:220:GLU:CG	2.28	0.46
1:L:206:THR:HB	1:L:209:GLU:CD	2.36	0.46
2:M:54:ILE:HG23	2:M:64:LEU:HD21	1.98	0.46
2:M:54:ILE:HD13	8:M:9525:HOH:O	2.14	0.46
2:M:63:GLY:HA3	2:M:103:LYS:CG	2.45	0.46
2:M:73:LEU:HD23	2:M:94:LEU:HD13	1.98	0.46
2:M:335:THR:HG22	2:M:461:VAL:HG11	1.98	0.46
2:M:412:ALA:CA	8:M:2237:HOH:O	2.64	0.46
2:M:441:VAL:O	2:M:559:LEU:HD13	2.16	0.46
2:M:554:ASP:CB	2:M:880:MET:O	2.64	0.46
2:M:683:ASN:HB2	2:M:687:ALA:O	2.16	0.46
2:M:691:SER:HB2	2:M:858:MET:CE	2.45	0.46
2:M:755:LEU:HD23	2:M:755:LEU:HA	1.76	0.46
2:M:772:ARG:HG3	8:P:9568:HOH:O	2.16	0.46
2:M:817:PRO:C	2:M:819:VAL:H	2.20	0.46
2:M:850:ALA:HA	3:N:632:VAL:HG11	1.98	0.46
2:M:906:PHE:HB3	3:N:1067:VAL:HG22	1.95	0.46
3:N:125:GLN:CD	3:N:587:ARG:HH21	2.19	0.46
3:N:472:ALA:N	8:N:9762:HOH:O	2.48	0.46
3:N:794:GLN:O	3:N:861:GLN:HB3	2.15	0.46
3:N:1408:ILE:HG21	8:N:9555:HOH:O	2.16	0.46
3:N:1490:LYS:HZ2	4:O:39:VAL:HA	1.79	0.46
5:P:94:LEU:HD12	5:P:97:GLU:HG2	1.98	0.46
5:P:151:LEU:HB2	5:P:155:THR:CB	2.45	0.46
5:P:291:ILE:HG23	5:P:292:ALA:N	2.31	0.46
2:C:449:ILE:N	8:C:9931:HOH:O	2.48	0.45
2:C:474:VAL:HG23	2:C:478:VAL:O	2.16	0.45
2:C:647:GLN:NE2	2:C:650:ARG:NH2	2.64	0.45
2:C:843:HIS:HD2	2:C:884:GLN:HB3	1.81	0.45
2:C:949:LYS:HB3	3:D:796:ARG:HH21	1.79	0.45
3:D:119:SER:H	3:D:123:LEU:CD1	2.29	0.45
3:D:609:GLY:HA3	3:D:613:ARG:HB3	1.97	0.45
3:D:613:ARG:HB2	8:D:9728:HOH:O	2.15	0.45
3:D:1031:ASN:HB3	3:D:1034:GLN:CG	2.46	0.45
3:D:1086:LEU:N	3:D:1086:LEU:CD1	2.79	0.45
5:F:261:PRO:O	5:F:265:VAL:HG23	2.16	0.45
1:K:64:GLU:O	1:K:64:GLU:HG2	2.16	0.45
1:K:65:PHE:HE2	2:M:830:LYS:HG3	1.78	0.45
1:K:149:GLY:N	8:K:5034:HOH:O	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:63:GLY:HA3	2:M:103:LYS:HG2	1.97	0.45
2:M:226:VAL:HG13	2:M:227:PHE:CE1	2.51	0.45
2:M:237:ARG:O	2:M:240:THR:HB	2.17	0.45
2:M:239:PHE:HE1	2:M:246:ASP:HB3	1.80	0.45
2:M:589:ARG:HH11	2:M:589:ARG:HB2	1.81	0.45
2:M:738:ASP:O	2:M:739:GLU:C	2.52	0.45
2:M:778:PHE:HA	8:M:9540:HOH:O	2.15	0.45
2:M:1099:VAL:HG13	8:M:9533:HOH:O	2.15	0.45
3:N:396:VAL:HG13	3:N:447:VAL:CA	2.42	0.45
3:N:456:MET:C	8:N:9942:HOH:O	2.55	0.45
3:N:544:TYR:CZ	3:N:581:LEU:HD11	2.51	0.45
3:N:956:ILE:HD11	3:N:1062:ARG:HB3	1.98	0.45
3:N:1241:PHE:O	3:N:1243:THR:N	2.49	0.45
4:O:46:PRO:HD2	8:O:707:HOH:O	2.15	0.45
4:O:52:GLU:HB2	4:O:55:PHE:HE2	1.79	0.45
5:P:170:HIS:HA	5:P:173:TYR:CD1	2.51	0.45
5:P:318:GLU:HB2	5:P:328:PHE:HE2	1.81	0.45
1:A:70:GLY:H	2:C:607:ASP:CG	2.19	0.45
1:A:162:ILE:HG13	1:A:163:ASN:N	2.31	0.45
2:C:54:ILE:HG12	8:C:9524:HOH:O	2.17	0.45
2:C:277:ALA:O	2:C:281:LEU:O	2.33	0.45
2:C:341:THR:HG23	2:C:345:ARG:HH21	1.81	0.45
2:C:428:ARG:HE	2:C:451:LEU:HG	1.80	0.45
2:C:516:ARG:HB2	8:C:9494:HOH:O	2.15	0.45
2:C:516:ARG:HH11	2:C:521:PRO:HG3	1.81	0.45
2:C:575:GLN:HA	2:C:662:GLU:OE2	2.17	0.45
2:C:679:PHE:CD1	2:C:870:ILE:HD13	2.51	0.45
2:C:854:PRO:C	2:C:856:GLU:N	2.69	0.45
2:C:1044:GLY:O	2:C:1046:ALA:N	2.49	0.45
3:D:469:ASP:N	8:D:2520:HOH:O	2.48	0.45
3:D:902:LEU:N	8:D:2567:HOH:O	2.48	0.45
5:F:371:LEU:HD22	5:F:375:LEU:HD12	1.96	0.45
1:K:191:ASP:O	1:K:192:LEU:HD23	2.16	0.45
1:K:213:GLN:O	1:K:217:ILE:HG13	2.15	0.45
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.99	0.45
1:L:91:ASN:HB2	1:L:92:PRO:CD	2.46	0.45
1:L:222:LEU:HB2	8:L:2116:HOH:O	2.15	0.45
2:M:309:TYR:O	2:M:313:LEU:HB3	2.17	0.45
2:M:691:SER:HB2	2:M:858:MET:SD	2.56	0.45
3:N:101:HIS:CD2	3:N:582:LEU:CD1	2.96	0.45
3:N:804:LEU:HD12	3:N:804:LEU:C	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1304:LYS:HA	8:N:9663:HOH:O	2.14	0.45
5:P:97:GLU:O	5:P:101:GLU:HB2	2.16	0.45
5:P:163:LEU:HD22	5:P:174:LEU:CG	2.39	0.45
5:P:410:TYR:O	5:P:414:ARG:HG2	2.16	0.45
2:C:148:PHE:CE1	2:C:309:TYR:HB3	2.50	0.45
2:C:474:VAL:HA	2:C:478:VAL:O	2.16	0.45
2:C:1031:ARG:HG2	2:C:1031:ARG:HH11	1.81	0.45
3:D:65:ARG:CD	5:F:374:GLY:O	2.65	0.45
3:D:186:VAL:CG1	3:D:187:LYS:N	2.79	0.45
3:D:549:ASN:ND2	8:D:9505:HOH:O	2.48	0.45
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.98	0.45
3:D:984:THR:CG2	3:D:987:GLU:H	2.25	0.45
3:D:1073:SER:HB2	8:D:9564:HOH:O	2.15	0.45
3:D:1207:TYR:H	3:D:1366:LYS:NZ	2.14	0.45
3:D:1437:ALA:HB3	3:D:1446:VAL:CG1	2.47	0.45
3:D:1503:VAL:HG11	8:D:2173:HOH:O	2.16	0.45
1:K:44:LEU:HD23	1:K:48:ILE:HD12	1.99	0.45
2:M:3:ILE:HD13	2:M:900:ARG:O	2.16	0.45
2:M:77:PRO:HD3	2:M:93:PRO:HD3	1.97	0.45
2:M:318:PRO:HB2	2:M:321:GLU:OE1	2.16	0.45
2:M:473:ARG:HG3	2:M:474:VAL:N	2.30	0.45
2:M:606:VAL:CG2	2:M:645:VAL:HG13	2.35	0.45
2:M:1043:TYR:CZ	3:N:763:MET:HG3	2.51	0.45
2:M:1097:LEU:HD13	2:M:1097:LEU:N	2.30	0.45
3:N:379:ALA:HB2	8:N:9622:HOH:O	2.15	0.45
3:N:576:GLU:O	3:N:579:ASP:HB2	2.16	0.45
3:N:786:ILE:HD13	3:N:1027:GLY:HA3	1.99	0.45
3:N:809:PRO:HD2	8:N:9498:HOH:O	2.14	0.45
3:N:893:GLU:O	3:N:896:ALA:HB3	2.16	0.45
3:N:1159:ARG:CZ	3:N:1159:ARG:HB2	2.46	0.45
1:B:6:LEU:C	1:B:8:ALA:N	2.70	0.45
1:B:101:LEU:HD23	1:B:101:LEU:C	2.37	0.45
2:C:10:ARG:O	2:C:12:VAL:N	2.49	0.45
2:C:309:TYR:O	2:C:313:LEU:N	2.37	0.45
2:C:338:GLU:CA	2:C:341:THR:HG22	2.45	0.45
2:C:413:LEU:HD11	2:C:451:LEU:HB3	1.99	0.45
2:C:840:ALA:HB2	2:C:846:LYS:HA	1.98	0.45
3:D:2:LYS:HD2	8:D:2092:HOH:O	2.17	0.45
3:D:79:GLU:HG2	3:D:80:VAL:N	2.31	0.45
3:D:397:LYS:HG2	3:D:397:LYS:O	2.15	0.45
3:D:567:ILE:HG22	3:D:571:LYS:HE3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:994:GLN:HG2	8:D:9597:HOH:O	2.16	0.45
3:D:1111:ASP:O	3:D:1111:ASP:OD2	2.34	0.45
3:D:1162:GLU:HG2	3:D:1163:GLY:N	2.32	0.45
3:D:1491:THR:HG21	4:E:89:MET:SD	2.57	0.45
5:F:141:VAL:CG1	5:F:142:ARG:N	2.79	0.45
5:F:278:LEU:HB2	5:F:286:PRO:HG2	1.98	0.45
5:F:365:GLU:HB2	5:F:400:ILE:HG21	1.97	0.45
2:M:276:LYS:HG2	2:M:280:LYS:HE3	1.97	0.45
2:M:626:ARG:NH2	8:M:2096:HOH:O	2.50	0.45
2:M:711:GLU:HB2	8:M:9684:HOH:O	2.16	0.45
2:M:888:THR:HG21	8:M:9676:HOH:O	2.16	0.45
3:N:9:ARG:HA	3:N:1434:TRP:HH2	1.82	0.45
3:N:414:ARG:HG2	8:N:2350:HOH:O	2.16	0.45
3:N:471:GLU:CG	8:N:9534:HOH:O	2.64	0.45
3:N:545:ARG:HB3	3:N:545:ARG:HH11	1.80	0.45
3:N:865:THR:HG23	3:N:874:GLU:CG	2.45	0.45
3:N:1209:LEU:O	3:N:1210:SER:C	2.52	0.45
3:N:1436:SER:HA	8:N:2074:HOH:O	2.16	0.45
4:O:64:ALA:C	8:O:3627:HOH:O	2.53	0.45
5:P:161:GLN:HG3	5:P:164:LYS:HZ2	1.81	0.45
5:P:287:THR:C	5:P:289:GLU:H	2.20	0.45
5:P:393:THR:CG2	5:P:394:ARG:N	2.79	0.45
1:A:6:LEU:C	1:A:8:ALA:N	2.68	0.45
1:A:13:VAL:HG12	1:A:15:THR:HG22	1.98	0.45
1:A:62:LEU:HD12	1:A:62:LEU:H	1.81	0.45
2:C:397:GLU:H	2:C:633:GLN:CD	2.19	0.45
2:C:723:THR:C	2:C:725:ASP:H	2.20	0.45
2:C:774:LEU:HD13	2:C:775:ARG:N	2.32	0.45
2:C:957:LYS:CG	2:C:961:GLU:HB3	2.47	0.45
3:D:161:LEU:O	3:D:449:SER:CB	2.63	0.45
3:D:540:LEU:HD23	3:D:540:LEU:HA	1.84	0.45
3:D:540:LEU:HD23	3:D:543:LEU:HD12	1.99	0.45
3:D:914:LEU:HD23	3:D:914:LEU:O	2.17	0.45
3:D:1164:ARG:HH11	3:D:1164:ARG:HG3	1.82	0.45
3:D:1312:LEU:HD11	3:D:1327:ARG:HG3	1.98	0.45
1:K:18:ARG:N	8:K:1202:HOH:O	2.49	0.45
2:M:637:LEU:N	2:M:637:LEU:HD23	2.32	0.45
2:M:713:ARG:HB2	2:M:720:GLU:OE1	2.17	0.45
2:M:873:PRO:HB3	3:N:949:ILE:HG13	1.98	0.45
2:M:928:LYS:O	2:M:932:GLU:HG3	2.16	0.45
3:N:166:GLN:HB3	3:N:395:VAL:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:423:ASP:OD1	5:P:175:HIS:ND1	2.49	0.45
3:N:423:ASP:HB2	5:P:178:ARG:HB2	1.98	0.45
3:N:525:ARG:NE	3:N:541:ASN:HD21	2.10	0.45
3:N:581:LEU:O	3:N:603:LEU:HG	2.17	0.45
3:N:754:PHE:HA	4:O:24:ALA:CB	2.47	0.45
3:N:828:LYS:NZ	3:N:862:ASP:OD1	2.49	0.45
3:N:843:PHE:HB3	8:N:9489:HOH:O	2.16	0.45
3:N:1412:LYS:O	3:N:1412:LYS:HG3	2.16	0.45
3:N:1476:THR:HG22	3:N:1476:THR:O	2.17	0.45
5:P:84:TYR:CE1	5:P:196:VAL:HG21	2.51	0.45
1:A:5:LYS:HE3	1:A:5:LYS:CA	2.36	0.45
1:A:49:PRO:O	1:A:173:PRO:CD	2.65	0.45
1:A:53:VAL:HG12	1:A:167:VAL:HG21	1.99	0.45
2:C:546:LEU:HD12	2:C:565:GLN:NE2	2.24	0.45
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.99	0.45
2:C:957:LYS:HG2	2:C:961:GLU:CB	2.47	0.45
2:C:1050:GLN:HG2	2:C:1079:PRO:HG2	1.97	0.45
3:D:500:ARG:HH22	3:D:1388:ARG:HD3	1.80	0.45
1:K:151:VAL:HB	1:K:169:ALA:HB3	1.98	0.45
1:L:124:ASN:OD1	1:L:127:LEU:HB2	2.17	0.45
2:M:17:PRO:HB2	8:M:9519:HOH:O	2.17	0.45
2:M:44:ILE:HD12	2:M:44:ILE:H	1.82	0.45
2:M:184:MET:HB2	2:M:193:LEU:HD23	1.98	0.45
2:M:1047:HIS:CG	3:N:754:PHE:HB3	2.52	0.45
2:M:1105:LYS:O	2:M:1107:ASN:N	2.50	0.45
3:N:130:SER:HB2	3:N:132:TYR:HE1	1.82	0.45
3:N:133:ILE:HA	3:N:455:ARG:O	2.16	0.45
3:N:388:HIS:O	5:P:97:GLU:HG3	2.16	0.45
3:N:539:ASP:HA	8:N:9616:HOH:O	2.16	0.45
3:N:828:LYS:HD2	3:N:862:ASP:OD2	2.17	0.45
3:N:1166:LEU:HB2	3:N:1170:ASP:HB2	1.98	0.45
4:O:40:LEU:HB2	4:O:45:ARG:NE	2.31	0.45
4:O:72:ARG:HG2	4:O:72:ARG:HH11	1.81	0.45
5:P:235:PHE:CE2	5:P:239:ALA:HB2	2.52	0.45
1:A:45:LEU:HD21	1:A:177:VAL:HG23	1.98	0.45
1:B:7:LYS:HZ2	1:B:186:LEU:HD22	1.82	0.45
2:C:121:MET:HB2	2:C:127:PHE:HE2	1.82	0.45
2:C:134:ARG:NH1	2:C:392:SER:OG	2.50	0.45
2:C:216:GLU:O	2:C:218:VAL:N	2.49	0.45
2:C:300:ASP:CG	2:C:300:ASP:O	2.55	0.45
2:C:730:SER:HB2	8:C:9654:HOH:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:762:LYS:HA	2:C:786:LYS:HG3	1.98	0.45
2:C:843:HIS:CD2	2:C:884:GLN:CA	3.00	0.45
2:C:1102:LEU:HD23	2:C:1107:ASN:N	2.32	0.45
3:D:395:VAL:O	3:D:395:VAL:HG12	2.16	0.45
3:D:580:ALA:HB3	8:D:2488:HOH:O	2.16	0.45
3:D:633:VAL:O	3:D:635:PRO:HD3	2.16	0.45
3:D:898:GLU:HA	8:D:2553:HOH:O	2.16	0.45
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.16	0.45
3:D:1197:ARG:HG3	3:D:1198:TYR:CD1	2.51	0.45
3:D:1401:GLU:HA	8:D:9583:HOH:O	2.16	0.45
5:F:155:THR:HG22	5:F:156:VAL:N	2.31	0.45
5:F:163:LEU:HB3	5:F:174:LEU:CG	2.46	0.45
1:K:9:PRO:HG2	1:L:224:TYR:HB3	1.98	0.45
1:L:161:ARG:HH11	1:L:161:ARG:HG3	1.81	0.45
2:M:137:VAL:HG21	2:M:393:GLN:HE22	1.81	0.45
2:M:188:LYS:HB2	8:M:9908:HOH:O	2.17	0.45
2:M:292:ARG:HD2	2:M:299:LYS:HD3	1.99	0.45
2:M:334:ARG:HB2	8:M:9656:HOH:O	2.17	0.45
2:M:714:ASP:HB2	2:M:818:GLY:O	2.17	0.45
3:N:126:VAL:HG11	3:N:152:LEU:HD12	1.97	0.45
3:N:376:GLU:HA	3:N:384:VAL:HA	1.98	0.45
3:N:521:PRO:HA	3:N:522:PRO:HD3	1.69	0.45
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.47	0.45
3:N:711:LEU:HD12	3:N:778:LEU:CD2	2.47	0.45
3:N:873:LEU:HD21	8:N:2008:HOH:O	2.17	0.45
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.98	0.45
3:N:1095:THR:O	3:N:1099:VAL:HG23	2.17	0.45
3:N:1312:LEU:HD13	3:N:1326:THR:O	2.16	0.45
4:O:32:ARG:NH2	8:O:1198:HOH:O	2.49	0.45
1:B:136:GLY:HA3	8:B:9645:HOH:O	2.17	0.45
2:C:273:GLY:HA2	2:C:276:LYS:CD	2.45	0.45
2:C:324:ASP:HB2	8:C:9878:HOH:O	2.15	0.45
2:C:458:TYR:HB3	2:C:470:PRO:CG	2.40	0.45
2:C:474:VAL:HG22	2:C:474:VAL:O	2.17	0.45
2:C:666:LEU:HD11	2:C:668:LEU:HD21	1.99	0.45
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.98	0.45
2:C:752:GLY:H	2:C:792:VAL:HB	1.81	0.45
2:C:1092:LEU:HA	2:C:1095:LEU:CD1	2.40	0.45
3:D:107:ASP:O	3:D:108:VAL:C	2.55	0.45
3:D:546:ARG:NH2	3:D:550:ARG:NH2	2.65	0.45
3:D:750:PRO:HG2	3:D:756:GLN:OE1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1212:ALA:HB1	8:D:9608:HOH:O	2.17	0.45
1:K:143:ARG:CG	1:K:143:ARG:NH1	2.70	0.45
2:M:183:SER:HB2	2:M:190:LYS:HG2	1.98	0.45
2:M:196:LEU:HD23	2:M:200:LEU:HD11	1.98	0.45
2:M:263:ASP:CB	2:M:264:PRO:CD	2.95	0.45
2:M:431:HIS:CG	2:M:432:ARG:N	2.85	0.45
2:M:749:VAL:HG11	2:M:755:LEU:HD21	1.98	0.45
3:N:67:ARG:HD3	8:N:2440:HOH:O	2.17	0.45
3:N:126:VAL:HG12	3:N:127:LEU:N	2.32	0.45
3:N:249:TYR:HA	8:N:2240:HOH:O	2.16	0.45
3:N:899:LEU:HB2	3:N:917:GLN:HG2	1.98	0.45
3:N:996:TRP:HB3	3:N:1044:LEU:HD11	1.99	0.45
3:N:1066:THR:OG1	3:N:1067:VAL:N	2.50	0.45
3:N:1271:LYS:HE3	3:N:1334:GLN:NE2	2.31	0.45
3:N:1485:GLN:HB2	8:N:2421:HOH:O	2.17	0.45
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.98	0.45
2:C:67:ASP:O	2:C:98:LEU:HD23	2.16	0.45
2:C:148:PHE:HZ	2:C:281:LEU:HD13	1.81	0.45
2:C:148:PHE:CZ	2:C:309:TYR:HB3	2.52	0.45
2:C:243:ARG:HH11	2:C:243:ARG:HG2	1.82	0.45
2:C:484:VAL:HG11	8:C:2006:HOH:O	2.17	0.45
2:C:984:GLU:H	2:C:984:GLU:HG2	1.37	0.45
2:C:1097:LEU:HD13	2:C:1097:LEU:HA	1.69	0.45
2:C:1115:LEU:HD22	3:D:88:TYR:HD1	1.82	0.45
2:C:1118:LYS:NZ	8:C:2317:HOH:O	2.48	0.45
3:D:9:ARG:CZ	3:D:11:ALA:HB2	2.47	0.45
3:D:819:GLY:O	3:D:822:ALA:HB3	2.16	0.45
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.82	0.45
3:D:1213:ARG:HD3	8:D:9784:HOH:O	2.16	0.45
3:D:1306:PRO:HG2	8:D:2005:HOH:O	2.17	0.45
3:D:1460:ILE:HG23	8:D:9667:HOH:O	2.16	0.45
4:E:41:GLU:HA	4:E:45:ARG:HG3	1.97	0.45
5:F:271:LEU:HD23	5:F:295:MET:HG3	1.99	0.45
1:K:89:PHE:HB2	1:K:94:LEU:HD22	1.99	0.45
1:K:123:MET:HE3	1:K:203:GLY:O	2.17	0.45
1:L:19:GLU:O	1:L:207:PRO:HG3	2.16	0.45
1:L:24:VAL:HG22	1:L:196:THR:OG1	2.17	0.45
1:L:109:VAL:HG23	1:L:132:LEU:HD13	1.99	0.45
2:M:101:ILE:HD12	2:M:107:LEU:HD22	1.98	0.45
2:M:122:THR:HG22	2:M:123:GLU:N	2.32	0.45
2:M:460:ARG:NH2	8:M:9519:HOH:O	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:625:LEU:CD1	2:M:641:PRO:HG3	2.47	0.45
2:M:710:ILE:CG2	2:M:823:VAL:HB	2.43	0.45
2:M:881:ASN:N	2:M:881:ASN:ND2	2.65	0.45
2:M:939:ARG:NH1	2:M:981:GLU:HG2	2.32	0.45
2:M:1005:MET:CE	3:N:648:MET:HB2	2.47	0.45
2:M:1071:ILE:O	3:N:659:LYS:HB2	2.17	0.45
2:M:1095:LEU:HD13	3:N:103:TRP:CH2	2.52	0.45
3:N:78:VAL:HG12	8:N:2191:HOH:O	2.17	0.45
3:N:107:ASP:O	3:N:108:VAL:C	2.55	0.45
3:N:529:GLN:HA	8:N:9957:HOH:O	2.15	0.45
3:N:600:LEU:HD23	8:N:9783:HOH:O	2.16	0.45
3:N:1271:LYS:HZ3	3:N:1273:VAL:HG12	1.82	0.45
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	1.99	0.45
5:P:114:LYS:HG3	8:P:9525:HOH:O	2.16	0.45
5:P:142:ARG:HD3	5:P:150:THR:OG1	2.17	0.45
5:P:222:ARG:HB3	5:P:242:TRP:CE3	2.52	0.45
5:P:276:ARG:HG3	5:P:276:ARG:NH1	2.31	0.45
5:P:278:LEU:HB2	5:P:286:PRO:HG2	1.99	0.45
1:A:48:ILE:HA	1:A:49:PRO:HD3	1.83	0.45
1:A:50:GLY:HA3	1:A:171:PHE:O	2.17	0.45
1:B:107:LYS:HG2	1:B:108:GLU:N	2.32	0.45
2:C:525:SER:HA	8:C:9516:HOH:O	2.16	0.45
2:C:551:GLU:H	2:C:551:GLU:HG3	1.38	0.45
2:C:666:LEU:HD12	2:C:667:ALA:H	1.82	0.45
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.99	0.45
3:D:135:LEU:HD21	3:D:452:ILE:CD1	2.47	0.45
3:D:166:GLN:HB3	3:D:395:VAL:HG21	1.99	0.45
3:D:674:ARG:HH11	3:D:674:ARG:HG2	1.82	0.45
3:D:1102:THR:O	3:D:1102:THR:HG22	2.16	0.45
4:E:27:ALA:HB2	4:E:61:GLU:HB3	1.99	0.45
5:F:148:LYS:O	5:F:148:LYS:CD	2.58	0.45
5:F:291:ILE:HG23	5:F:292:ALA:N	2.31	0.45
1:K:39:PRO:CG	1:L:39:PRO:HG2	2.43	0.45
2:M:265:ARG:HB3	8:M:9905:HOH:O	2.16	0.45
2:M:375:SER:HA	8:M:9662:HOH:O	2.16	0.45
2:M:393:GLN:HE21	2:M:409:ARG:HH12	1.63	0.45
2:M:444:PRO:HD3	2:M:452:ILE:O	2.17	0.45
2:M:1006:HIS:HA	2:M:1027:PHE:CZ	2.51	0.45
3:N:240:GLU:O	3:N:242:LEU:N	2.50	0.45
3:N:583:ASP:OD1	3:N:604:THR:CB	2.58	0.45
3:N:778:LEU:HA	3:N:778:LEU:HD12	1.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:914:LEU:HD22	3:N:930:LEU:HD21	1.99	0.45
3:N:1126:ASP:OD1	3:N:1129:THR:O	2.35	0.45
3:N:1148:VAL:HG23	3:N:1165:TYR:CD2	2.51	0.45
4:O:94:PRO:HG3	8:O:4486:HOH:O	2.17	0.45
5:P:209:PHE:CE2	5:P:213:ILE:HD11	2.52	0.45
5:P:288:TYR:C	5:P:291:ILE:HG22	2.37	0.45
5:P:411:HIS:HB2	5:P:414:ARG:NE	2.31	0.45
1:B:81:ASN:ND2	8:B:9514:HOH:O	2.50	0.44
2:C:136:ILE:HD11	8:C:9659:HOH:O	2.17	0.44
2:C:230:ARG:HA	2:C:231:PRO:HD3	1.57	0.44
2:C:352:ALA:C	2:C:355:VAL:HG12	2.37	0.44
2:C:486:MET:HG2	8:C:9678:HOH:O	2.16	0.44
2:C:544:THR:HG22	2:C:547:ILE:HD12	1.99	0.44
2:C:625:LEU:O	2:C:627:ARG:N	2.50	0.44
2:C:774:LEU:CD1	5:F:421:PHE:HE2	2.24	0.44
2:C:926:PHE:HD1	8:C:9628:HOH:O	2.00	0.44
3:D:10:ILE:HD11	3:D:1434:TRP:NE1	2.31	0.44
3:D:146:PRO:HB2	8:D:9853:HOH:O	2.17	0.44
3:D:695:ILE:HG22	8:D:2155:HOH:O	2.17	0.44
3:D:1336:LEU:HD13	3:D:1344:VAL:HG21	1.99	0.44
3:D:1476:THR:CG2	4:E:21:VAL:HG22	2.47	0.44
1:L:27:PRO:HG2	1:L:186:LEU:CD1	2.46	0.44
1:L:115:LEU:HB3	8:L:2300:HOH:O	2.16	0.44
2:M:3:ILE:HD13	2:M:3:ILE:HA	1.81	0.44
2:M:41:ASN:C	2:M:41:ASN:HD22	2.21	0.44
2:M:264:PRO:CB	2:M:289:THR:CB	2.94	0.44
2:M:266:ARG:CD	2:M:273:GLY:HA3	2.47	0.44
2:M:597:ALA:HB2	2:M:655:LEU:HD21	1.98	0.44
2:M:1018:GLN:NE2	5:P:338:LEU:HD13	2.32	0.44
3:N:141:ILE:HD12	3:N:141:ILE:H	1.80	0.44
3:N:433:GLY:HA3	8:N:2094:HOH:O	2.17	0.44
3:N:486:ARG:CA	3:N:489:ARG:HD3	2.47	0.44
3:N:683:ILE:CG2	3:N:687:VAL:HG21	2.47	0.44
3:N:1209:LEU:HD21	3:N:1216:SER:HB2	1.99	0.44
3:N:1341:PRO:HD2	3:N:1342:GLU:OE2	2.17	0.44
3:N:1457:ASP:C	3:N:1457:ASP:OD1	2.55	0.44
4:O:3:GLU:HB3	8:O:1282:HOH:O	2.17	0.44
5:P:367:MET:HE3	5:P:371:LEU:HD11	1.99	0.44
1:A:156:HIS:CD2	1:A:157:GLY:H	2.35	0.44
2:C:67:ASP:HA	8:C:9488:HOH:O	2.17	0.44
2:C:89:THR:CA	2:C:129:ILE:O	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:772:ARG:NH2	8:C:2204:HOH:O	2.49	0.44
2:C:843:HIS:NE2	2:C:887:GLU:OE2	2.50	0.44
3:D:447:VAL:HG23	3:D:448:GLU:N	2.32	0.44
3:D:637:LEU:HD11	3:D:642:CYS:CA	2.46	0.44
3:D:729:HIS:ND1	3:D:730:PRO:N	2.66	0.44
3:D:1097:LYS:H	3:D:1097:LYS:HG2	1.47	0.44
4:E:51:LEU:CG	4:E:53:GLY:H	2.21	0.44
5:F:358:LEU:O	5:F:358:LEU:HD23	2.17	0.44
5:F:408:LEU:HA	5:F:411:HIS:CE1	2.52	0.44
5:F:415:THR:CG2	5:F:417:LYS:NZ	2.80	0.44
1:K:20:TYR:HE2	1:K:198:ARG:HB3	1.82	0.44
2:M:136:ILE:CD1	2:M:392:SER:HB2	2.43	0.44
2:M:190:LYS:HE2	8:M:2075:HOH:O	2.17	0.44
2:M:433:THR:O	2:M:437:ARG:HG3	2.17	0.44
2:M:557:ARG:NE	2:M:560:MET:SD	2.90	0.44
2:M:589:ARG:HD3	2:M:596:TYR:CE2	2.52	0.44
2:M:775:ARG:O	2:M:779:GLY:C	2.55	0.44
2:M:858:MET:HB2	2:M:859:PRO:HD2	1.98	0.44
2:M:939:ARG:HH11	2:M:981:GLU:HG2	1.82	0.44
3:N:75:ARG:HD3	8:N:2038:HOH:O	2.17	0.44
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.30	0.44
3:N:436:GLU:HB2	3:N:445:ARG:CB	2.45	0.44
3:N:704:ARG:HG3	3:N:736:PHE:HB3	1.99	0.44
3:N:807:ALA:HB1	8:N:2335:HOH:O	2.17	0.44
3:N:826:PRO:CD	3:N:829:VAL:HG22	2.41	0.44
3:N:830:ALA:HB2	8:N:9597:HOH:O	2.17	0.44
3:N:1045:MET:SD	3:N:1073:SER:HB2	2.57	0.44
3:N:1148:VAL:HG23	3:N:1165:TYR:CE2	2.52	0.44
3:N:1487:VAL:HG21	4:O:79:LEU:HG	2.00	0.44
1:A:9:PRO:HG2	1:B:224:TYR:CG	2.53	0.44
1:A:83:LYS:NZ	2:C:698:ASP:OD2	2.50	0.44
1:B:81:ASN:HB2	8:B:9519:HOH:O	2.18	0.44
2:C:49:ARG:HB3	8:C:9834:HOH:O	2.18	0.44
2:C:260:LEU:HB2	2:C:291:ALA:HB1	2.00	0.44
2:C:627:ARG:HD2	8:C:2176:HOH:O	2.17	0.44
2:C:722:ILE:HG21	2:C:821:GLU:OE1	2.18	0.44
2:C:1024:LYS:HB2	2:C:1024:LYS:HE3	1.88	0.44
3:D:127:LEU:HD12	3:D:457:GLY:H	1.82	0.44
3:D:207:PHE:HB3	3:D:208:PRO:CD	2.42	0.44
3:D:642:CYS:SG	3:D:716:PHE:HB2	2.58	0.44
3:D:804:LEU:HD12	3:D:831:GLY:HA3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:937:TYR:HA	3:D:940:THR:OG1	2.17	0.44
3:D:964:LEU:O	3:D:968:ASP:HB2	2.17	0.44
3:D:1209:LEU:O	3:D:1210:SER:C	2.53	0.44
4:E:51:LEU:HB2	8:E:9429:HOH:O	2.17	0.44
2:M:71:TYR:CG	2:M:71:TYR:O	2.70	0.44
2:M:172:ILE:HG22	2:M:173:ASP:N	2.32	0.44
2:M:411:SER:CB	2:M:452:ILE:HG23	2.47	0.44
2:M:559:LEU:CD1	2:M:563:ASN:ND2	2.81	0.44
2:M:588:VAL:HG23	2:M:589:ARG:N	2.31	0.44
2:M:1037:VAL:HG12	2:M:1041:GLU:CD	2.36	0.44
3:N:194:GLY:N	3:N:206:ARG:HD3	2.32	0.44
3:N:710:ARG:NH1	3:N:1210:SER:OG	2.50	0.44
3:N:796:ARG:H	3:N:796:ARG:HG2	1.59	0.44
3:N:1057:VAL:CG1	3:N:1069:GLU:HB3	2.47	0.44
3:N:1062:ARG:HH11	3:N:1062:ARG:HG3	1.83	0.44
3:N:1504:GLU:HB2	8:N:2110:HOH:O	2.16	0.44
5:P:94:LEU:HD12	5:P:97:GLU:H	1.82	0.44
5:P:110:MET:HE1	8:P:9585:HOH:O	2.17	0.44
5:P:278:LEU:HB3	5:P:286:PRO:HG2	2.00	0.44
5:P:358:LEU:CD2	5:P:370:LYS:NZ	2.78	0.44
5:P:416:ARG:HH11	5:P:419:ARG:CB	2.27	0.44
1:A:81:ASN:ND2	1:A:128:HIS:O	2.51	0.44
2:C:136:ILE:CG2	2:C:336:VAL:HG22	2.48	0.44
2:C:175:GLU:HB3	2:C:183:SER:OG	2.17	0.44
2:C:205:GLU:O	2:C:209:ARG:HD2	2.18	0.44
2:C:630:ARG:HH21	2:C:707:ARG:N	2.15	0.44
2:C:1085:PHE:CE2	3:D:1468:LEU:HD23	2.53	0.44
3:D:30:GLU:CB	3:D:40:GLU:HB3	2.43	0.44
3:D:103:TRP:HZ2	3:D:604:THR:HG1	1.62	0.44
3:D:521:PRO:O	3:D:525:ARG:HG2	2.18	0.44
3:D:565:ILE:HD13	5:F:192:LEU:HD13	2.00	0.44
3:D:637:LEU:HD11	3:D:643:GLY:N	2.32	0.44
3:D:680:GLN:O	3:D:683:ILE:HG13	2.18	0.44
3:D:716:PHE:CE2	3:D:765:SER:HB3	2.53	0.44
3:D:1101:VAL:O	3:D:1374:GLN:HG3	2.17	0.44
3:D:1146:GLY:CA	3:D:1207:TYR:HB2	2.40	0.44
3:D:1286:THR:CG2	3:D:1287:GLU:H	2.30	0.44
5:F:328:PHE:HD2	5:F:328:PHE:HA	1.71	0.44
5:F:406:ARG:HA	5:F:409:LYS:HG2	1.98	0.44
1:L:143:ARG:HD3	1:L:158:ILE:HG21	1.99	0.44
2:M:259:GLY:O	2:M:290:LEU:O	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:326:ASP:HB3	2:M:431:HIS:CG	2.52	0.44
2:M:610:ARG:CZ	8:M:2156:HOH:O	2.65	0.44
2:M:1036:GLU:OE1	2:M:1036:GLU:N	2.49	0.44
3:N:3:LYS:H	3:N:3:LYS:HG2	1.37	0.44
3:N:153:LEU:HD23	3:N:153:LEU:N	2.33	0.44
3:N:524:LEU:O	3:N:526:PRO:HD3	2.18	0.44
3:N:1202:GLN:HE21	3:N:1202:GLN:HB2	1.62	0.44
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.83	0.44
4:O:28:GLN:HG2	8:O:1198:HOH:O	2.16	0.44
5:P:89:GLY:HA3	8:P:9699:HOH:O	2.16	0.44
5:P:122:LEU:HG	5:P:126:LEU:HD23	1.98	0.44
1:A:158:ILE:HD13	1:A:158:ILE:HA	1.83	0.44
2:C:106:GLY:O	2:C:107:LEU:HD23	2.17	0.44
2:C:737:LEU:HA	2:C:743:VAL:HA	1.99	0.44
2:C:755:LEU:HD11	2:C:792:VAL:HG22	1.98	0.44
2:C:843:HIS:HD2	2:C:884:GLN:CA	2.31	0.44
2:C:950:LEU:HG	2:C:952:LEU:HD23	2.00	0.44
3:D:8:VAL:HG12	3:D:1434:TRP:HH2	1.83	0.44
3:D:699:VAL:HG12	3:D:717:GLN:HA	2.00	0.44
3:D:806:PHE:O	3:D:807:ALA:C	2.55	0.44
3:D:1095:THR:HG23	3:D:1226:ALA:O	2.18	0.44
3:D:1133:ARG:HB3	8:D:9645:HOH:O	2.17	0.44
3:D:1241:PHE:CD2	3:D:1260:ILE:HG13	2.51	0.44
3:D:1462:LEU:HD21	3:D:1474:ALA:HB2	1.99	0.44
3:D:1464:GLU:HA	3:D:1467:ILE:CD1	2.47	0.44
4:E:46:PRO:HB3	4:E:54:LEU:CD2	2.47	0.44
5:F:88:ILE:HD13	5:F:193:ARG:HD3	1.98	0.44
5:F:158:GLU:HA	5:F:161:GLN:CD	2.37	0.44
5:F:188:ILE:HD13	5:F:221:ILE:HG12	1.99	0.44
5:F:260:ILE:CG1	5:F:264:MET:HB2	2.46	0.44
5:F:270:LYS:HB3	5:F:295:MET:SD	2.57	0.44
1:L:150:TYR:HH	3:N:843:PHE:HE2	1.62	0.44
2:M:115:LEU:H	2:M:115:LEU:HG	1.53	0.44
2:M:516:ARG:CD	3:N:1068:LEU:HD22	2.48	0.44
2:M:572:ILE:HG12	2:M:701:THR:O	2.18	0.44
2:M:679:PHE:O	2:M:681:GLY:N	2.43	0.44
2:M:776:SER:HA	2:M:780:GLU:HB2	2.00	0.44
2:M:841:ASN:ND2	2:M:843:HIS:N	2.65	0.44
2:M:1019:GLN:HE22	3:N:621:LYS:CG	2.30	0.44
2:M:1097:LEU:HD13	2:M:1097:LEU:H	1.83	0.44
2:M:1109:VAL:HG13	3:N:3:LYS:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:11:ALA:HB1	3:N:507:ASN:CG	2.38	0.44
3:N:86:ARG:HD3	3:N:523:ASP:OD1	2.17	0.44
3:N:137:PRO:HA	8:N:9761:HOH:O	2.17	0.44
3:N:568:ARG:HB3	8:N:9947:HOH:O	2.17	0.44
3:N:602:SER:O	3:N:605:ASP:HB2	2.17	0.44
3:N:649:ALA:HB3	3:N:691:LEU:HD21	1.99	0.44
3:N:955:VAL:HA	8:N:2329:HOH:O	2.17	0.44
3:N:988:ARG:CZ	3:N:992:ILE:HD11	2.47	0.44
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.53	0.44
3:N:1413:THR:O	3:N:1413:THR:HG22	2.17	0.44
3:N:1475:GLY:HA2	8:N:9507:HOH:O	2.17	0.44
5:P:105:LYS:HD3	5:P:183:ALA:HB2	1.99	0.44
5:P:347:GLN:O	5:P:351:SER:HB2	2.16	0.44
5:P:419:ARG:O	5:P:421:PHE:N	2.51	0.44
1:A:139:ASN:ND2	8:A:9489:HOH:O	2.50	0.44
1:B:7:LYS:O	1:B:7:LYS:HG2	2.18	0.44
1:B:165:ILE:HA	1:B:166:PRO:HD3	1.88	0.44
1:B:166:PRO:HB2	8:B:9542:HOH:O	2.17	0.44
2:C:135:VAL:HB	2:C:406:HIS:HE1	1.81	0.44
2:C:264:PRO:HB3	2:C:289:THR:CB	2.48	0.44
2:C:846:LYS:O	3:D:741:ASP:HB2	2.17	0.44
3:D:179:VAL:HG12	3:D:183:GLU:OE2	2.18	0.44
3:D:414:ARG:HA	8:D:9502:HOH:O	2.17	0.44
3:D:589:ALA:HA	8:D:9687:HOH:O	2.17	0.44
3:D:714:GLN:HE22	3:D:735:ALA:CB	2.30	0.44
3:D:1000:THR:O	3:D:1003:VAL:HG22	2.17	0.44
3:D:1007:VAL:CG2	3:D:1008:PHE:N	2.79	0.44
3:D:1273:VAL:HG23	3:D:1273:VAL:O	2.16	0.44
3:D:1359:GLN:HE21	3:D:1359:GLN:HB3	1.58	0.44
5:F:301:ALA:N	8:F:9565:HOH:O	2.50	0.44
1:K:5:LYS:O	1:K:8:ALA:CB	2.64	0.44
1:K:9:PRO:CG	1:L:224:TYR:HB3	2.48	0.44
1:K:88:ARG:HD2	1:K:123:MET:HE1	2.00	0.44
2:M:12:VAL:HG13	2:M:13:ILE:HG12	1.99	0.44
2:M:368:THR:CB	2:M:369:PRO:CD	2.96	0.44
2:M:569:VAL:HG12	2:M:996:LYS:O	2.18	0.44
2:M:625:LEU:O	2:M:627:ARG:N	2.51	0.44
3:N:87:ARG:CG	3:N:88:TYR:N	2.79	0.44
3:N:417:PRO:HA	5:P:168:LYS:HZ3	1.82	0.44
3:N:702:LEU:HB3	3:N:745:MET:HE2	1.99	0.44
3:N:709:HIS:HD2	3:N:711:LEU:H	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:786:ILE:HD13	3:N:1027:GLY:CA	2.48	0.44
3:N:786:ILE:HD11	3:N:908:LYS:HB3	1.98	0.44
3:N:825:ALA:HA	3:N:826:PRO:HD3	1.87	0.44
3:N:965:GLU:OE1	3:N:968:ASP:HB3	2.18	0.44
3:N:1118:ILE:HD13	3:N:1118:ILE:HA	1.80	0.44
3:N:1273:VAL:HG23	3:N:1273:VAL:O	2.18	0.44
3:N:1361:VAL:CG1	3:N:1363:LEU:HD23	2.48	0.44
4:O:46:PRO:HG2	4:O:63:TRP:CD1	2.51	0.44
5:P:358:LEU:CD1	5:P:370:LYS:HZ2	2.30	0.44
5:P:385:GLU:O	5:P:397:ILE:HD13	2.18	0.44
1:A:178:ALA:HB3	1:A:198:ARG:HG3	2.00	0.44
1:A:180:GLN:HE21	2:C:934:PHE:HB2	1.76	0.44
2:C:208:ALA:HA	2:C:218:VAL:CG2	2.48	0.44
3:D:68:PHE:CZ	5:F:375:LEU:CD2	3.01	0.44
3:D:83:SER:O	3:D:86:ARG:HB3	2.16	0.44
3:D:88:TYR:HA	8:D:9471:HOH:O	2.17	0.44
3:D:177:ALA:HB1	3:D:199:LEU:CD1	2.47	0.44
3:D:539:ASP:HA	8:D:2538:HOH:O	2.17	0.44
3:D:539:ASP:OD1	3:D:600:LEU:HD22	2.17	0.44
3:D:960:LYS:HG2	3:D:964:LEU:CD1	2.47	0.44
3:D:1065:LEU:CD1	3:D:1069:GLU:HB3	2.46	0.44
3:D:1320:GLU:H	3:D:1323:GLN:NE2	2.16	0.44
5:F:95:THR:HG22	5:F:96:LEU:HD23	1.99	0.44
1:K:11:PHE:HD2	8:L:679:HOH:O	2.00	0.44
1:K:189:ARG:NH1	1:L:155:LYS:NZ	2.65	0.44
2:M:202:TYR:O	2:M:207:LEU:HD12	2.18	0.44
2:M:687:ALA:CB	8:M:9693:HOH:O	2.66	0.44
2:M:1006:HIS:HA	2:M:1027:PHE:CE2	2.53	0.44
2:M:1054:THR:CG2	2:M:1059:ASP:HB2	2.48	0.44
3:N:395:VAL:O	3:N:395:VAL:HG12	2.17	0.44
3:N:430:ASP:HB2	3:N:432:TYR:CZ	2.51	0.44
3:N:566:ILE:HD11	5:P:192:LEU:HD21	2.00	0.44
3:N:658:LEU:HD11	3:N:674:ARG:HH11	1.83	0.44
3:N:660:LYS:HE3	3:N:693:GLU:OE1	2.18	0.44
3:N:764:LEU:HG	3:N:765:SER:N	2.33	0.44
3:N:806:PHE:O	3:N:807:ALA:C	2.56	0.44
3:N:1083:ASP:O	3:N:1087:ARG:CG	2.65	0.44
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.48	0.44
5:P:95:THR:C	5:P:96:LEU:HD23	2.38	0.44
5:P:316:SER:C	5:P:318:GLU:N	2.71	0.44
1:A:111:ALA:HB3	1:A:124:ASN:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:203:ASP:OD1	2:C:206:THR:HB	2.18	0.44
2:C:272:ALA:O	2:C:276:LYS:HD2	2.17	0.44
2:C:301:GLU:O	2:C:305:PRO:HG2	2.17	0.44
2:C:775:ARG:O	2:C:779:GLY:C	2.56	0.44
2:C:1098:ASP:C	2:C:1098:ASP:OD1	2.56	0.44
3:D:138:LYS:HA	8:D:2105:HOH:O	2.18	0.44
3:D:202:VAL:HG22	8:D:2526:HOH:O	2.18	0.44
3:D:210:ARG:CD	3:D:398:ALA:HB3	2.40	0.44
3:D:423:ASP:OD1	5:F:175:HIS:CE1	2.71	0.44
3:D:661:MET:HE1	3:D:677:LEU:HD21	2.00	0.44
3:D:959:GLU:HG3	3:D:1006:ALA:HB1	1.99	0.44
4:E:44:GLU:O	4:E:45:ARG:HD3	2.17	0.44
5:F:93:LEU:HG	5:F:190:ALA:HB3	1.98	0.44
5:F:394:ARG:HA	5:F:397:ILE:CD1	2.38	0.44
1:K:19:GLU:O	1:K:207:PRO:HG3	2.18	0.44
1:L:66:SER:O	1:L:75:VAL:HG23	2.18	0.44
2:M:428:ARG:HA	2:M:450:GLY:HA3	1.99	0.44
2:M:474:VAL:HA	2:M:478:VAL:O	2.18	0.44
2:M:685:GLU:CB	8:N:2331:HOH:O	2.66	0.44
2:M:859:PRO:HB3	2:M:974:LEU:HD23	1.99	0.44
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.83	0.44
2:M:1108:PRO:O	3:N:3:LYS:HG3	2.16	0.44
2:M:1115:LEU:HB3	8:N:9574:HOH:O	2.17	0.44
3:N:93:ILE:HD13	3:N:547:LEU:HD23	1.98	0.44
3:N:178:LEU:HD22	8:N:9638:HOH:O	2.18	0.44
3:N:528:VAL:HG12	3:N:529:GLN:N	2.33	0.44
3:N:669:ASN:OD1	3:N:672:ALA:HB2	2.18	0.44
3:N:1197:ARG:HB2	3:N:1396:GLU:CG	2.48	0.44
5:P:411:HIS:HA	5:P:414:ARG:HE	1.82	0.44
1:B:156:HIS:CD2	1:B:157:GLY:N	2.85	0.44
1:B:165:ILE:HG13	1:B:165:ILE:O	2.18	0.44
2:C:148:PHE:HB2	2:C:313:LEU:HD22	1.99	0.44
2:C:158:TYR:HE1	2:C:313:LEU:O	2.01	0.44
2:C:204:GLN:NE2	8:C:9840:HOH:O	2.51	0.44
2:C:367:LEU:HA	2:C:371:LYS:HB2	2.00	0.44
2:C:462:ASP:CG	2:C:463:GLU:N	2.71	0.44
2:C:603:VAL:HG22	2:C:613:VAL:HG12	1.99	0.44
2:C:742:VAL:HG12	2:C:743:VAL:N	2.33	0.44
2:C:775:ARG:CZ	2:C:782:ALA:CB	2.96	0.44
2:C:1021:LEU:CD2	5:F:332:PHE:HA	2.48	0.44
3:D:128:TYR:HB3	3:D:129:PHE:CD1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:605:ASP:OD1	3:D:605:ASP:N	2.50	0.44
3:D:631:ILE:CG2	3:D:745:MET:HB2	2.48	0.44
3:D:762:GLN:HE21	4:E:20:THR:HG21	1.83	0.44
3:D:998:GLU:O	3:D:1002:LYS:HG3	2.18	0.44
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	2.00	0.44
3:D:1389:LEU:HD12	8:D:2466:HOH:O	2.18	0.44
5:F:181:GLU:OE2	5:F:184:ARG:HD3	2.18	0.44
5:F:385:GLU:O	5:F:397:ILE:HD13	2.17	0.44
1:K:47:SER:CB	1:K:217:ILE:HD13	2.47	0.44
1:K:64:GLU:OE2	1:K:76:VAL:HG22	2.18	0.44
1:K:151:VAL:HG22	8:K:3959:HOH:O	2.18	0.44
2:M:168:ARG:NH1	8:M:9881:HOH:O	2.50	0.44
2:M:198:ARG:NH2	2:M:203:ASP:HB3	2.33	0.44
2:M:974:LEU:HD11	2:M:989:VAL:HG11	2.00	0.44
2:M:1054:THR:HG23	2:M:1059:ASP:HB2	1.99	0.44
3:N:34:TYR:O	3:N:35:ARG:C	2.55	0.44
3:N:413:ASP:OD1	3:N:421:LEU:HD13	2.16	0.44
3:N:704:ARG:HE	3:N:705:ALA:H	1.64	0.44
3:N:750:PRO:HG2	3:N:756:GLN:OE1	2.18	0.44
3:N:1026:SER:C	3:N:1028:ALA:H	2.21	0.44
3:N:1106:VAL:HG12	3:N:1107:VAL:N	2.33	0.44
3:N:1223:ILE:O	3:N:1227:GLN:HG3	2.18	0.44
5:P:328:PHE:HD1	8:P:9750:HOH:O	2.00	0.44
1:A:44:LEU:HD23	1:A:48:ILE:CD1	2.48	0.43
1:A:83:LYS:HE3	1:A:167:VAL:HG12	2.00	0.43
1:A:177:VAL:O	2:C:864:GLY:CA	2.65	0.43
1:A:191:ASP:O	1:A:191:ASP:CG	2.57	0.43
2:C:50:GLU:HG3	2:C:265:ARG:NH1	2.33	0.43
2:C:94:LEU:CD1	8:C:9663:HOH:O	2.66	0.43
2:C:181:VAL:CG1	2:C:182:VAL:N	2.81	0.43
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.99	0.43
2:C:517:ARG:HD2	8:C:9983:HOH:O	2.17	0.43
2:C:564:MET:HA	2:C:564:MET:HE3	1.99	0.43
2:C:787:ASP:N	8:C:2178:HOH:O	2.45	0.43
2:C:1091:GLU:O	3:D:603:LEU:HD22	2.17	0.43
3:D:786:ILE:HD11	3:D:908:LYS:HB2	2.00	0.43
3:D:1114:THR:O	3:D:1114:THR:CG2	2.66	0.43
3:D:1356:TYR:N	3:D:1356:TYR:CD1	2.86	0.43
3:D:1394:VAL:HG23	8:D:2077:HOH:O	2.17	0.43
3:D:1440:PHE:HB2	3:D:1442:ASN:ND2	2.32	0.43
3:D:1487:VAL:HB	4:E:74:VAL:HB	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:55:PHE:H	4:E:55:PHE:HD2	1.65	0.43
5:F:405:LEU:O	5:F:408:LEU:CD2	2.65	0.43
2:M:18:LEU:HD13	2:M:590:ASP:OD2	2.18	0.43
2:M:24:GLU:HG2	8:M:9500:HOH:O	2.17	0.43
2:M:118:ILE:O	2:M:118:ILE:HG12	2.17	0.43
2:M:122:THR:HG22	2:M:124:ASP:H	1.83	0.43
2:M:163:ILE:O	2:M:163:ILE:HG12	2.17	0.43
2:M:287:GLY:O	2:M:288:ARG:C	2.56	0.43
2:M:368:THR:CB	2:M:369:PRO:HD3	2.39	0.43
2:M:630:ARG:HH11	2:M:630:ARG:HG3	1.83	0.43
2:M:643:VAL:HG13	2:M:647:GLN:NE2	2.33	0.43
2:M:906:PHE:CD1	3:N:1067:VAL:HG13	2.53	0.43
2:M:1000:MET:CE	2:M:1001:VAL:HG22	2.48	0.43
2:M:1005:MET:SD	3:N:648:MET:HB2	2.58	0.43
3:N:13:ALA:O	3:N:511:TRP:HB3	2.18	0.43
3:N:131:LYS:HE3	8:N:9947:HOH:O	2.17	0.43
3:N:689:ASP:HA	8:N:2043:HOH:O	2.18	0.43
3:N:1314:LYS:HZ3	3:N:1317:ASP:H	1.66	0.43
5:P:411:HIS:CA	5:P:414:ARG:HE	2.31	0.43
1:A:161:ARG:HG3	1:A:161:ARG:NH1	2.33	0.43
1:B:78:ILE:HG23	8:B:9503:HOH:O	2.17	0.43
1:B:101:LEU:HA	8:B:9491:HOH:O	2.17	0.43
1:B:137:ARG:HH12	1:B:139:ASN:HB3	1.83	0.43
2:C:129:ILE:HB	2:C:134:ARG:HD2	2.00	0.43
2:C:369:PRO:HA	8:C:2227:HOH:O	2.18	0.43
2:C:413:LEU:H	2:C:413:LEU:CD1	2.18	0.43
2:C:676:ILE:HG22	2:C:988:VAL:HG13	1.99	0.43
2:C:885:ILE:HG13	3:D:949:ILE:HG22	2.00	0.43
2:C:987:ILE:HG12	3:D:948:THR:HG23	2.00	0.43
2:C:1016:ILE:HD13	2:C:1016:ILE:H	1.82	0.43
2:C:1019:GLN:HE21	2:C:1019:GLN:HB3	1.59	0.43
3:D:22:SER:OG	3:D:23:TYR:N	2.51	0.43
3:D:79:GLU:O	3:D:80:VAL:HB	2.18	0.43
3:D:399:ARG:CZ	8:D:2498:HOH:O	2.66	0.43
3:D:470:LEU:HB2	3:D:503:LEU:HD21	2.00	0.43
3:D:500:ARG:HH22	3:D:1388:ARG:NH1	2.16	0.43
3:D:584:ASN:HB3	8:D:9687:HOH:O	2.17	0.43
3:D:618:LEU:HD23	3:D:618:LEU:HA	1.69	0.43
3:D:796:ARG:NH1	3:D:859:ASP:HB2	2.33	0.43
3:D:1042:ARG:HG3	3:D:1042:ARG:O	2.18	0.43
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1209:LEU:C	3:D:1211:MET:N	2.70	0.43
3:D:1465:ASN:ND2	8:D:9954:HOH:O	2.51	0.43
1:L:176:ARG:HH12	3:N:884:ARG:HD3	1.83	0.43
2:M:29:ALA:HB2	2:M:337:GLY:HA3	2.01	0.43
2:M:353:ARG:HB3	8:M:2122:HOH:O	2.18	0.43
2:M:771:GLU:HB2	8:M:9723:HOH:O	2.17	0.43
3:N:177:ALA:HB1	3:N:199:LEU:CB	2.47	0.43
3:N:195:VAL:HG22	8:N:9862:HOH:O	2.18	0.43
3:N:433:GLY:HA3	3:N:449:SER:O	2.17	0.43
3:N:530:VAL:HG12	3:N:531:ASP:N	2.33	0.43
3:N:1096:ARG:CG	3:N:1096:ARG:NH1	2.81	0.43
3:N:1096:ARG:NH1	3:N:1096:ARG:HG2	2.33	0.43
3:N:1115:THR:CG2	3:N:1151:ARG:HH21	2.31	0.43
3:N:1385:GLY:HA2	3:N:1413:THR:HG21	1.99	0.43
4:O:4:PRO:HA	8:O:1112:HOH:O	2.18	0.43
4:O:40:LEU:CG	4:O:67:GLU:HG2	2.48	0.43
1:A:18:ARG:NH1	1:A:88:ARG:NE	2.63	0.43
1:A:39:PRO:HG2	1:B:39:PRO:CG	2.46	0.43
1:A:133:GLU:CG	1:A:134:GLU:N	2.81	0.43
1:A:198:ARG:NH2	2:C:934:PHE:HE1	2.16	0.43
2:C:1:MET:N	8:C:2269:HOH:O	2.50	0.43
2:C:439:CYS:SG	2:C:441:VAL:N	2.91	0.43
2:C:720:GLU:HG2	2:C:760:SER:HB3	2.00	0.43
2:C:1034:GLU:HG3	2:C:1035:MET:H	1.82	0.43
3:D:116:LEU:HB3	3:D:118:LEU:CD1	2.48	0.43
3:D:148:GLU:HB3	3:D:151:GLN:HG3	2.00	0.43
3:D:396:VAL:HG13	3:D:447:VAL:CA	2.45	0.43
3:D:480:GLU:HG2	3:D:492:ALA:HB2	2.00	0.43
3:D:947:ILE:HD12	3:D:947:ILE:O	2.19	0.43
3:D:988:ARG:HH11	3:D:992:ILE:HD11	1.83	0.43
3:D:1171:VAL:O	3:D:1171:VAL:HG12	2.18	0.43
3:D:1438:ALA:HB1	8:D:9745:HOH:O	2.17	0.43
4:E:6:ILE:HA	4:E:9:LEU:HD12	2.00	0.43
2:M:283:ILE:HG22	2:M:284:ARG:HG2	2.00	0.43
2:M:578:VAL:HG11	2:M:991:GLN:OE1	2.18	0.43
2:M:1014:SER:HA	2:M:1021:LEU:HD23	2.00	0.43
2:M:1102:LEU:HD13	3:N:7:LYS:O	2.19	0.43
3:N:420:VAL:HG22	8:N:2309:HOH:O	2.16	0.43
3:N:567:ILE:HG22	3:N:571:LYS:HZ2	1.83	0.43
3:N:568:ARG:NH2	8:N:2401:HOH:O	2.50	0.43
3:N:1363:LEU:CD1	3:N:1368:ILE:HD11	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1406:ARG:HG2	8:N:9632:HOH:O	2.17	0.43
3:N:1487:VAL:HB	4:O:74:VAL:HB	2.01	0.43
2:C:533:ASP:HB3	2:C:538:GLN:NE2	2.33	0.43
3:D:144:GLY:HA2	8:D:9643:HOH:O	2.18	0.43
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.41	0.43
3:D:229:ALA:HB1	8:D:2446:HOH:O	2.18	0.43
3:D:389:GLU:O	3:D:389:GLU:HG2	2.18	0.43
3:D:550:ARG:HG3	3:D:550:ARG:NH1	2.33	0.43
3:D:613:ARG:HG3	3:D:613:ARG:NH1	2.31	0.43
3:D:614:PHE:CZ	3:D:1439:SER:O	2.71	0.43
3:D:700:VAL:HG22	3:D:718:PRO:HG3	2.00	0.43
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.17	0.43
4:E:16:LYS:NZ	8:E:9422:HOH:O	2.50	0.43
5:F:164:LYS:HA	5:F:171:LYS:HZ3	1.83	0.43
5:F:365:GLU:OE1	5:F:365:GLU:N	2.51	0.43
1:K:64:GLU:OE2	1:K:76:VAL:HG13	2.18	0.43
1:L:188:GLN:H	1:L:188:GLN:HG2	1.52	0.43
2:M:58:ASP:O	2:M:59:LYS:HG2	2.18	0.43
2:M:207:LEU:HD22	2:M:221:LEU:CD1	2.49	0.43
2:M:524:VAL:HG22	2:M:528:GLU:HB2	1.99	0.43
2:M:559:LEU:HD22	8:M:9785:HOH:O	2.18	0.43
2:M:1065:ALA:CB	2:M:1077:PRO:HG2	2.48	0.43
3:N:97:THR:HB	3:N:571:LYS:HD3	2.00	0.43
3:N:112:ILE:HG22	3:N:512:MET:CE	2.48	0.43
3:N:116:LEU:C	3:N:118:LEU:HD13	2.39	0.43
3:N:427:VAL:HB	3:N:435:VAL:HB	2.01	0.43
3:N:831:GLY:HA3	8:N:9675:HOH:O	2.18	0.43
4:O:2:ALA:N	8:O:1102:HOH:O	2.50	0.43
4:O:45:ARG:NE	8:O:5067:HOH:O	2.51	0.43
5:P:76:SER:O	5:P:77:THR:C	2.56	0.43
5:P:85:LEU:HD22	5:P:193:ARG:CZ	2.48	0.43
5:P:209:PHE:O	5:P:213:ILE:HG13	2.19	0.43
5:P:259:ARG:N	8:P:9565:HOH:O	2.51	0.43
5:P:410:TYR:O	5:P:413:SER:HB2	2.18	0.43
1:B:88:ARG:NH1	8:B:9511:HOH:O	2.52	0.43
2:C:110:GLU:CB	2:C:369:PRO:HG3	2.48	0.43
2:C:204:GLN:NE2	2:C:228:ALA:CB	2.81	0.43
2:C:638:ASP:HB2	8:C:2064:HOH:O	2.19	0.43
3:D:470:LEU:H	3:D:470:LEU:HG	1.57	0.43
3:D:853:VAL:HG22	3:D:858:VAL:O	2.19	0.43
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1493:LYS:HG3	8:D:9756:HOH:O	2.17	0.43
5:F:278:LEU:CD1	5:F:290:GLU:HB3	2.36	0.43
1:K:83:LYS:HD3	8:M:9621:HOH:O	2.16	0.43
1:K:219:ARG:NH1	1:K:220:GLU:HA	2.33	0.43
2:M:181:VAL:HG12	2:M:182:VAL:N	2.32	0.43
2:M:790:LEU:C	2:M:790:LEU:HD12	2.39	0.43
2:M:917:LEU:HD23	2:M:917:LEU:HA	1.73	0.43
2:M:945:ARG:NH2	8:M:9941:HOH:O	2.50	0.43
2:M:1044:GLY:O	2:M:1046:ALA:N	2.51	0.43
3:N:154:THR:CG2	3:N:155:ASP:N	2.82	0.43
3:N:521:PRO:O	3:N:525:ARG:NH1	2.50	0.43
3:N:580:ALA:HA	3:N:584:ASN:OD1	2.19	0.43
3:N:695:ILE:O	3:N:696:HIS:C	2.57	0.43
3:N:792:ILE:HA	8:N:9873:HOH:O	2.19	0.43
3:N:849:ALA:O	3:N:853:VAL:HG23	2.18	0.43
3:N:889:ALA:HB1	3:N:930:LEU:HA	2.01	0.43
3:N:908:LYS:CB	3:N:1027:GLY:HA3	2.43	0.43
3:N:970:LYS:NZ	8:N:9576:HOH:O	2.51	0.43
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.28	0.43
3:N:1471:LEU:HD23	8:N:9651:HOH:O	2.19	0.43
4:O:54:LEU:CD2	4:O:63:TRP:HE1	2.31	0.43
5:P:85:LEU:HB3	8:P:9542:HOH:O	2.19	0.43
5:P:277:GLN:HB2	8:P:9578:HOH:O	2.18	0.43
1:B:109:VAL:HG21	1:B:138:LEU:HD21	1.99	0.43
2:C:22:GLN:HE21	2:C:22:GLN:HB3	1.70	0.43
2:C:129:ILE:HD11	2:C:386:PHE:CD2	2.53	0.43
2:C:479:VAL:HG21	2:C:503:LEU:HD11	2.00	0.43
2:C:594:ALA:N	8:C:9533:HOH:O	2.51	0.43
2:C:595:LEU:HD13	2:C:639:GLN:OE1	2.19	0.43
2:C:602:GLU:HG2	2:C:603:VAL:N	2.34	0.43
2:C:630:ARG:HH21	2:C:707:ARG:H	1.66	0.43
2:C:643:VAL:HG22	8:C:2226:HOH:O	2.18	0.43
2:C:669:GLY:O	2:C:670:GLN:HG3	2.19	0.43
2:C:672:VAL:HG23	2:C:868:ASP:CB	2.42	0.43
2:C:710:ILE:HD11	2:C:758:ARG:HH21	1.84	0.43
2:C:1058:ASP:OD1	2:C:1083:GLU:N	2.52	0.43
2:C:1070:ILE:HD13	3:D:751:LEU:HD22	2.00	0.43
3:D:2:LYS:HB3	3:D:3:LYS:HD3	2.01	0.43
3:D:28:LYS:HA	3:D:29:PRO:HD3	1.79	0.43
3:D:126:VAL:HG11	3:D:152:LEU:HD12	2.00	0.43
3:D:148:GLU:HB3	3:D:151:GLN:CG	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:240:GLU:O	3:D:243:ALA:N	2.50	0.43
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.73	0.43
3:D:638:LYS:C	3:D:729:HIS:HD2	2.22	0.43
3:D:787:LEU:HD12	3:D:787:LEU:O	2.18	0.43
3:D:827:ILE:O	3:D:837:GLY:HA3	2.19	0.43
3:D:899:LEU:HD21	3:D:914:LEU:HD23	2.01	0.43
3:D:1058:ARG:HH11	3:D:1058:ARG:CG	2.32	0.43
3:D:1243:THR:O	3:D:1269:LYS:HD2	2.18	0.43
3:D:1476:THR:HG22	3:D:1476:THR:O	2.17	0.43
5:F:402:ASN:OD1	5:F:402:ASN:N	2.50	0.43
1:K:44:LEU:HD21	1:K:199:ILE:HD13	2.01	0.43
1:K:161:ARG:HH11	1:K:161:ARG:HG3	1.83	0.43
1:L:6:LEU:C	1:L:8:ALA:N	2.71	0.43
2:M:44:ILE:HD11	2:M:340:MET:CE	2.49	0.43
2:M:358:ARG:HH22	2:M:374:ASN:CG	2.21	0.43
2:M:395:LYS:HE2	2:M:403:SER:HB2	2.01	0.43
2:M:441:VAL:HG13	2:M:442:GLU:N	2.34	0.43
2:M:611:ILE:HD11	2:M:641:PRO:HB3	2.01	0.43
3:N:23:TYR:O	3:N:24:GLY:O	2.37	0.43
3:N:171:LEU:HA	3:N:172:PRO:HD2	1.56	0.43
3:N:950:GLY:C	3:N:952:ASP:N	2.70	0.43
4:O:5:GLY:O	4:O:9:LEU:HG	2.18	0.43
5:P:144:ILE:CB	5:P:145:PRO:HD3	2.48	0.43
5:P:282:LEU:HD22	5:P:282:LEU:HA	1.82	0.43
5:P:408:LEU:HD23	5:P:408:LEU:C	2.39	0.43
1:A:61:VAL:HG11	1:A:75:VAL:HG21	2.01	0.43
1:A:226:SER:HB2	8:A:9514:HOH:O	2.17	0.43
2:C:94:LEU:HD11	8:C:9663:HOH:O	2.19	0.43
2:C:264:PRO:CB	2:C:289:THR:HB	2.49	0.43
2:C:281:LEU:HD11	2:C:306:THR:HA	2.00	0.43
2:C:367:LEU:HA	2:C:371:LYS:CB	2.48	0.43
2:C:479:VAL:HB	2:C:503:LEU:HD11	2.00	0.43
2:C:885:ILE:HD12	3:D:949:ILE:O	2.18	0.43
3:D:82:LYS:O	3:D:84:ILE:N	2.51	0.43
3:D:534:ARG:HG2	5:F:312:GLN:HE22	1.82	0.43
3:D:684:LYS:HD3	3:D:686:GLU:OE2	2.18	0.43
3:D:806:PHE:HE1	3:D:809:PRO:O	2.01	0.43
3:D:1197:ARG:HD3	3:D:1396:GLU:CB	2.46	0.43
1:K:45:LEU:HD21	1:K:177:VAL:HG23	2.00	0.43
1:K:143:ARG:NH1	1:K:145:ASP:OD1	2.52	0.43
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:197:LEU:HB3	2:M:202:TYR:HB2	2.01	0.43
2:M:216:GLU:O	2:M:218:VAL:N	2.51	0.43
2:M:242:LEU:HD13	2:M:242:LEU:N	2.33	0.43
2:M:330:ASN:HB3	8:M:2182:HOH:O	2.18	0.43
2:M:454:SER:HB2	8:M:9853:HOH:O	2.18	0.43
2:M:727:PRO:CG	2:M:785:VAL:HG12	2.44	0.43
2:M:737:LEU:HD21	2:M:754:ILE:CG2	2.48	0.43
2:M:1002:GLU:HG3	2:M:1003:ASP:N	2.33	0.43
2:M:1030:GLN:OE1	3:N:628:ARG:HB2	2.18	0.43
2:M:1056:LYS:HE2	3:N:623:VAL:CG1	2.48	0.43
3:N:41:ARG:O	3:N:42:ASP:C	2.57	0.43
3:N:96:ALA:CB	3:N:554:LEU:HD12	2.47	0.43
3:N:481:MET:SD	3:N:1388:ARG:CG	2.96	0.43
3:N:609:GLY:HA3	3:N:613:ARG:HB3	2.01	0.43
3:N:1116:ASN:ND2	3:N:1116:ASN:N	2.52	0.43
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.48	0.43
4:O:54:LEU:HG	4:O:58:PRO:CG	2.48	0.43
1:A:55:SER:HB2	1:A:158:ILE:HG21	2.01	0.43
1:B:62:LEU:H	1:B:62:LEU:HD12	1.83	0.43
2:C:162:ILE:HB	2:C:172:ILE:CD1	2.49	0.43
2:C:193:LEU:HG	2:C:307:LEU:HD22	2.01	0.43
2:C:657:ASP:OD2	2:C:662:GLU:O	2.37	0.43
2:C:759:THR:HB	2:C:785:VAL:CG1	2.48	0.43
2:C:979:THR:HG23	2:C:981:GLU:N	2.25	0.43
2:C:1072:LYS:HD2	8:C:9885:HOH:O	2.19	0.43
3:D:145:VAL:HG13	3:D:146:PRO:N	2.34	0.43
3:D:421:LEU:HG	3:D:422:ALA:O	2.19	0.43
3:D:580:ALA:O	3:D:602:SER:HB3	2.18	0.43
3:D:799:LYS:HE2	3:D:824:ASN:O	2.18	0.43
3:D:889:ALA:HB1	3:D:930:LEU:HA	2.01	0.43
3:D:1026:SER:C	3:D:1028:ALA:H	2.22	0.43
3:D:1079:LYS:NZ	8:D:9833:HOH:O	2.52	0.43
3:D:1275:SER:OG	3:D:1277:ILE:O	2.37	0.43
3:D:1353:GLN:O	3:D:1357:ARG:HD2	2.19	0.43
3:D:1354:LYS:HE3	8:D:9873:HOH:O	2.18	0.43
4:E:46:PRO:CB	4:E:54:LEU:CD2	2.97	0.43
5:F:288:TYR:C	5:F:291:ILE:HG22	2.39	0.43
1:L:186:LEU:HD23	1:L:186:LEU:HA	1.79	0.43
2:M:3:ILE:O	2:M:3:ILE:HG22	2.19	0.43
2:M:101:ILE:HG23	2:M:107:LEU:CD2	2.41	0.43
2:M:569:VAL:O	2:M:569:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:770:GLU:HG2	3:N:65:ARG:HH22	1.83	0.43
2:M:984:GLU:H	2:M:984:GLU:HG2	1.68	0.43
3:N:112:ILE:HG13	3:N:124:GLU:OE2	2.18	0.43
3:N:214:GLU:HG2	3:N:215:TYR:CD1	2.54	0.43
3:N:820:GLU:HA	3:N:825:ALA:O	2.18	0.43
3:N:1151:ARG:NH1	8:N:9821:HOH:O	2.52	0.43
3:N:1340:GLY:O	3:N:1344:VAL:HG23	2.18	0.43
3:N:1396:GLU:HG2	3:N:1399:ASP:OD2	2.19	0.43
3:N:1487:VAL:HG12	3:N:1488:ASP:O	2.19	0.43
5:P:166:LEU:HD13	5:P:170:HIS:HB2	2.00	0.43
5:P:198:ILE:HD11	5:P:240:THR:HA	2.01	0.43
5:P:249:ARG:HG3	5:P:253:ASP:OD2	2.19	0.43
1:A:182:GLU:OE2	2:C:934:PHE:HB3	2.17	0.43
1:B:61:VAL:HG22	8:B:9525:HOH:O	2.19	0.43
2:C:63:GLY:HA3	2:C:103:LYS:HG2	1.99	0.43
2:C:146:VAL:HB	2:C:281:LEU:HD22	2.01	0.43
2:C:473:ARG:HG3	2:C:474:VAL:N	2.34	0.43
2:C:748:GLU:CA	2:C:799:ILE:HG22	2.46	0.43
2:C:950:LEU:HG	2:C:952:LEU:CD2	2.48	0.43
2:C:957:LYS:HG2	2:C:961:GLU:HB3	2.00	0.43
2:C:1021:LEU:C	8:C:2253:HOH:O	2.56	0.43
3:D:19:ARG:HD2	8:D:9545:HOH:O	2.18	0.43
3:D:434:ARG:CB	3:D:447:VAL:HG22	2.45	0.43
3:D:704:ARG:HG3	3:D:705:ALA:N	2.34	0.43
3:D:937:TYR:HB3	3:D:941:PHE:CE1	2.54	0.43
3:D:1499:ARG:O	3:D:1502:ALA:HB3	2.19	0.43
5:F:156:VAL:N	8:F:9476:HOH:O	2.47	0.43
1:K:101:LEU:HD23	1:K:101:LEU:C	2.39	0.43
2:M:44:ILE:HG23	2:M:344:PHE:CE1	2.54	0.43
2:M:238:LEU:HD23	8:M:9936:HOH:O	2.19	0.43
2:M:476:GLY:C	2:M:478:VAL:H	2.22	0.43
2:M:525:SER:O	2:M:529:VAL:HG23	2.19	0.43
2:M:732:ALA:HA	2:M:735:ARG:NE	2.34	0.43
2:M:999:HIS:HD2	8:M:2181:HOH:O	2.01	0.43
3:N:122:GLU:O	3:N:126:VAL:HB	2.19	0.43
3:N:1093:TYR:O	3:N:1097:LYS:HG2	2.18	0.43
3:N:1107:VAL:HG12	3:N:1217:ILE:HA	2.00	0.43
4:O:37:ASN:C	8:O:691:HOH:O	2.57	0.43
5:P:167:PRO:HB2	5:P:169:GLU:CD	2.39	0.43
5:P:204:GLY:HA2	8:P:9767:HOH:O	2.19	0.43
5:P:223:ALA:HB2	5:P:242:TRP:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:350:LEU:CD1	5:P:422:LEU:CB	2.92	0.43
1:A:48:ILE:HG22	1:A:173:PRO:HD2	2.00	0.43
2:C:200:LEU:HD22	2:C:300:ASP:OD1	2.19	0.43
2:C:299:LYS:HG3	2:C:299:LYS:O	2.19	0.43
2:C:395:LYS:O	2:C:633:GLN:NE2	2.52	0.43
2:C:1081:VAL:HB	2:C:1086:ARG:CZ	2.49	0.43
3:D:9:ARG:HD2	8:D:2198:HOH:O	2.18	0.43
3:D:10:ILE:HG22	3:D:1451:ALA:HA	1.99	0.43
3:D:42:ASP:O	3:D:46:ASP:HB2	2.19	0.43
3:D:572:ARG:O	3:D:575:GLN:HB3	2.19	0.43
3:D:661:MET:HE3	3:D:673:ALA:HB1	2.01	0.43
3:D:894:LYS:HB2	8:D:9522:HOH:O	2.19	0.43
3:D:949:ILE:HD11	3:D:1023:MET:HE1	2.01	0.43
3:D:1353:GLN:NE2	3:D:1365:ASP:OD2	2.52	0.43
3:D:1416:ALA:HB2	8:D:9686:HOH:O	2.19	0.43
3:D:1458:GLU:HB3	8:D:9556:HOH:O	2.18	0.43
5:F:288:TYR:CE2	5:F:305:GLU:HA	2.53	0.43
5:F:353:GLU:OE2	5:F:356:LYS:HD2	2.19	0.43
5:F:372:ARG:HD2	5:F:372:ARG:HA	1.75	0.43
1:L:137:ARG:HG2	1:L:137:ARG:NH1	2.30	0.43
2:M:309:TYR:HA	2:M:312:ALA:HB3	2.01	0.43
2:M:889:HIS:NE2	2:M:970:GLY:HA3	2.34	0.43
2:M:906:PHE:CZ	3:N:1067:VAL:HA	2.53	0.43
2:M:1055:LEU:HD23	2:M:1055:LEU:N	2.33	0.43
3:N:141:ILE:HG22	3:N:142:LEU:N	2.34	0.43
3:N:422:ALA:CB	5:P:178:ARG:HH22	2.32	0.43
3:N:427:VAL:O	3:N:433:GLY:O	2.37	0.43
3:N:598:ARG:HA	3:N:599:PRO:HD3	1.89	0.43
3:N:693:GLU:HA	8:N:9582:HOH:O	2.19	0.43
3:N:781:PRO:HB3	3:N:785:ILE:CG2	2.49	0.43
3:N:794:GLN:CA	3:N:879:ARG:HH12	2.31	0.43
3:N:1083:ASP:O	3:N:1087:ARG:CD	2.67	0.43
3:N:1373:ARG:HG2	3:N:1374:GLN:HE21	1.84	0.43
3:N:1425:THR:HG21	8:N:2233:HOH:O	2.18	0.43
4:O:45:ARG:HH12	4:O:72:ARG:HH21	1.66	0.43
5:P:170:HIS:HA	5:P:173:TYR:HD1	1.83	0.43
1:A:9:PRO:HG2	1:B:224:TYR:CD2	2.54	0.42
1:A:101:LEU:HD23	1:A:101:LEU:C	2.40	0.42
1:A:177:VAL:HG12	1:A:178:ALA:N	2.34	0.42
1:A:219:ARG:HD3	8:A:9459:HOH:O	2.19	0.42
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:626:ARG:HG2	2:C:629:TYR:CE1	2.54	0.42
2:C:673:LEU:HD23	2:C:867:VAL:HA	2.01	0.42
3:D:12:LEU:HD23	3:D:13:ALA:N	2.25	0.42
3:D:169:TYR:HA	3:D:392:SER:HA	2.00	0.42
3:D:696:HIS:HD2	8:E:9410:HOH:O	2.01	0.42
3:D:729:HIS:ND1	3:D:730:PRO:CD	2.82	0.42
3:D:1138:ALA:O	3:D:1141:GLU:HB2	2.19	0.42
3:D:1234:THR:HG23	8:D:2149:HOH:O	2.18	0.42
4:E:54:LEU:HA	4:E:58:PRO:CG	2.49	0.42
4:E:72:ARG:N	8:E:9366:HOH:O	2.45	0.42
5:F:315:VAL:HG12	5:F:316:SER:N	2.34	0.42
5:F:369:LEU:O	5:F:373:LYS:HG2	2.19	0.42
1:K:107:LYS:HG2	1:K:108:GLU:N	2.34	0.42
2:M:27:ARG:HG2	8:M:9618:HOH:O	2.18	0.42
2:M:33:ASP:N	8:M:2159:HOH:O	2.52	0.42
2:M:418:LEU:HD11	8:M:2225:HOH:O	2.19	0.42
2:M:879:ARG:NH1	3:N:1029:ARG:HH12	2.17	0.42
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.54	0.42
3:N:404:GLU:OE2	3:N:414:ARG:NH1	2.52	0.42
5:P:74:LYS:HD3	5:P:74:LYS:HA	1.87	0.42
1:A:96:THR:HG21	8:A:9543:HOH:O	2.19	0.42
2:C:121:MET:HA	2:C:127:PHE:CD2	2.55	0.42
2:C:196:LEU:HD11	2:C:303:PHE:CE1	2.54	0.42
2:C:217:LEU:HD12	2:C:311:PHE:CD2	2.54	0.42
2:C:265:ARG:HA	2:C:289:THR:OG1	2.18	0.42
2:C:367:LEU:HD11	8:C:9627:HOH:O	2.18	0.42
2:C:501:THR:O	2:C:502:PRO:C	2.57	0.42
2:C:575:GLN:HA	2:C:662:GLU:HG3	2.00	0.42
2:C:601:GLY:HA3	2:C:615:TYR:HA	2.01	0.42
2:C:715:THR:HG22	2:C:717:LEU:HG	2.01	0.42
2:C:1105:LYS:O	2:C:1107:ASN:N	2.52	0.42
3:D:41:ARG:O	3:D:42:ASP:C	2.57	0.42
3:D:54:LYS:HA	8:D:9647:HOH:O	2.19	0.42
3:D:171:LEU:HA	3:D:172:PRO:HD3	1.59	0.42
3:D:399:ARG:NH2	8:D:2498:HOH:O	2.51	0.42
3:D:960:LYS:HG2	3:D:964:LEU:HD12	2.00	0.42
3:D:1487:VAL:HG12	3:D:1488:ASP:O	2.19	0.42
5:F:363:GLU:CG	5:F:364:ARG:N	2.82	0.42
5:F:416:ARG:HD2	5:F:419:ARG:HB3	2.01	0.42
1:K:218:LEU:HD12	1:K:222:LEU:HD23	2.00	0.42
2:M:516:ARG:CD	2:M:521:PRO:HA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:691:SER:CB	2:M:858:MET:SD	3.07	0.42
2:M:778:PHE:CE2	5:P:419:ARG:CD	2.98	0.42
2:M:1101:THR:O	2:M:1102:LEU:HD12	2.20	0.42
3:N:103:TRP:NE1	3:N:583:ASP:OD2	2.52	0.42
3:N:166:GLN:N	8:N:9606:HOH:O	2.52	0.42
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.53	0.42
3:N:1320:GLU:H	3:N:1323:GLN:NE2	2.17	0.42
3:N:1481:VAL:HG11	4:O:18:ARG:CA	2.38	0.42
5:P:361:LEU:HD21	5:P:408:LEU:CB	2.49	0.42
1:A:222:LEU:HD13	1:A:222:LEU:HA	1.83	0.42
1:B:108:GLU:HB3	1:B:128:HIS:CE1	2.54	0.42
1:B:192:LEU:HD23	1:B:192:LEU:HA	1.84	0.42
2:C:12:VAL:CG1	2:C:534:VAL:HG13	2.49	0.42
2:C:103:LYS:HD3	2:C:103:LYS:HA	1.56	0.42
2:C:203:ASP:O	2:C:207:LEU:HB2	2.18	0.42
2:C:217:LEU:HB2	2:C:311:PHE:CE2	2.54	0.42
2:C:346:VAL:O	2:C:350:ARG:HG3	2.19	0.42
2:C:564:MET:SD	2:C:846:LYS:HD2	2.59	0.42
2:C:572:ILE:CD1	2:C:701:THR:HB	2.49	0.42
2:C:607:ASP:HB2	2:C:610:ARG:H	1.83	0.42
3:D:411:THR:CG2	3:D:429:SER:HB3	2.46	0.42
3:D:433:GLY:HA3	3:D:449:SER:O	2.18	0.42
3:D:483:HIS:ND1	3:D:483:HIS:N	2.67	0.42
3:D:601:ARG:HH22	3:D:611:GLN:H	1.68	0.42
3:D:695:ILE:O	3:D:696:HIS:C	2.56	0.42
3:D:951:ILE:HG23	3:D:1062:ARG:NH2	2.34	0.42
3:D:991:GLN:HG2	8:D:9698:HOH:O	2.19	0.42
3:D:1144:LEU:HA	3:D:1147:ARG:HG3	2.01	0.42
3:D:1228:SER:O	3:D:1232:PRO:HD2	2.19	0.42
3:D:1266:ARG:O	3:D:1268:PRO:HD3	2.19	0.42
3:D:1310:ARG:HG3	3:D:1327:ARG:HB3	2.01	0.42
5:F:79:ASP:HB3	5:F:80:PRO:HD2	2.01	0.42
1:K:224:TYR:CG	1:L:9:PRO:HG2	2.55	0.42
2:M:207:LEU:HB3	2:M:221:LEU:HD21	2.00	0.42
2:M:279:GLU:HG3	2:M:280:LYS:N	2.33	0.42
2:M:376:ARG:HH12	5:P:285:GLU:CG	2.31	0.42
2:M:432:ARG:HH22	3:N:1047:LYS:CE	2.31	0.42
2:M:695:LEU:HD21	2:M:833:LEU:O	2.19	0.42
3:N:55:ASP:OD2	3:N:82:LYS:HD3	2.18	0.42
3:N:152:LEU:HD23	3:N:152:LEU:H	1.83	0.42
3:N:194:GLY:O	3:N:196:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:584:ASN:HD21	3:N:590:PRO:HB2	1.84	0.42
3:N:1110:ALA:O	3:N:1111:ASP:C	2.54	0.42
3:N:1141:GLU:HB3	3:N:1168:MET:HE1	2.02	0.42
3:N:1489:GLN:HA	3:N:1489:GLN:HE21	1.82	0.42
4:O:26:ARG:HH21	4:O:67:GLU:CD	2.22	0.42
5:P:149:GLU:N	8:P:9479:HOH:O	2.52	0.42
1:B:54:THR:CG2	1:B:158:ILE:HG13	2.33	0.42
1:B:95:GLN:HB3	8:B:9540:HOH:O	2.18	0.42
2:C:2:GLU:HG2	8:C:9758:HOH:O	2.18	0.42
2:C:110:GLU:HB3	8:C:9664:HOH:O	2.18	0.42
2:C:149:THR:HG23	2:C:150:PRO:HD2	2.02	0.42
2:C:259:GLY:O	2:C:290:LEU:O	2.37	0.42
2:C:578:VAL:HG11	2:C:991:GLN:HB3	2.01	0.42
2:C:605:LYS:HB2	2:C:610:ARG:NH1	2.34	0.42
2:C:722:ILE:O	2:C:722:ILE:HG23	2.19	0.42
3:D:450:TYR:O	3:D:452:ILE:N	2.51	0.42
3:D:459:GLU:O	3:D:463:GLN:HG2	2.19	0.42
3:D:553:ARG:HD2	3:D:570:GLU:OE2	2.19	0.42
3:D:884:ARG:HG3	8:D:9779:HOH:O	2.19	0.42
3:D:1210:SER:HA	8:D:2016:HOH:O	2.20	0.42
4:E:37:ASN:HA	8:E:9378:HOH:O	2.19	0.42
4:E:95:GLY:HA3	8:E:9401:HOH:O	2.19	0.42
1:K:1:MET:O	1:K:6:LEU:CB	2.47	0.42
1:K:139:ASN:ND2	8:K:5059:HOH:O	2.52	0.42
1:L:11:PHE:CE2	1:L:13:VAL:HG22	2.54	0.42
2:M:118:ILE:HA	2:M:119:PRO:HD3	1.83	0.42
2:M:182:VAL:HG23	8:M:2190:HOH:O	2.20	0.42
2:M:276:LYS:CG	2:M:280:LYS:HE3	2.50	0.42
2:M:630:ARG:HE	2:M:707:ARG:HB2	1.84	0.42
2:M:1106:ASP:HA	3:N:7:LYS:HE3	2.00	0.42
3:N:119:SER:HB3	3:N:123:LEU:H	1.84	0.42
3:N:186:VAL:O	3:N:211:VAL:HB	2.20	0.42
3:N:447:VAL:HG23	3:N:448:GLU:N	2.33	0.42
3:N:632:VAL:O	3:N:727:GLN:HA	2.19	0.42
3:N:657:LEU:HD13	3:N:691:LEU:HA	2.02	0.42
3:N:658:LEU:O	3:N:661:MET:HB2	2.19	0.42
3:N:862:ASP:O	3:N:877:PRO:HD2	2.19	0.42
3:N:936:TYR:HB2	8:N:9603:HOH:O	2.19	0.42
3:N:1114:THR:O	3:N:1114:THR:HG22	2.19	0.42
3:N:1377:LYS:HG2	3:N:1378:TYR:CE1	2.54	0.42
5:P:384:GLU:O	5:P:385:GLU:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:42:ARG:CZ	2:C:857:ASP:HB3	2.50	0.42
1:A:137:ARG:C	8:A:9482:HOH:O	2.57	0.42
2:C:287:GLY:O	2:C:288:ARG:C	2.58	0.42
2:C:696:LYS:NZ	8:C:9599:HOH:O	2.44	0.42
2:C:701:THR:HG23	2:C:832:LYS:HG2	2.02	0.42
2:C:830:LYS:HD3	8:C:2071:HOH:O	2.18	0.42
3:D:23:TYR:CE2	3:D:89:ARG:NH1	2.88	0.42
3:D:34:TYR:O	3:D:35:ARG:C	2.55	0.42
3:D:147:VAL:HG11	8:D:2105:HOH:O	2.20	0.42
3:D:168:THR:HB	3:D:393:ILE:CD1	2.49	0.42
3:D:916:TYR:HD2	3:D:916:TYR:O	2.03	0.42
3:D:1259:VAL:HG11	3:D:1356:TYR:OH	2.20	0.42
3:D:1327:ARG:NH1	8:D:9696:HOH:O	2.52	0.42
5:F:332:PHE:N	5:F:332:PHE:CD1	2.88	0.42
5:F:370:LYS:O	5:F:374:GLY:N	2.46	0.42
5:F:384:GLU:O	5:F:385:GLU:C	2.57	0.42
1:K:94:LEU:HD13	8:K:742:HOH:O	2.20	0.42
1:K:180:GLN:HG3	8:K:2871:HOH:O	2.19	0.42
2:M:29:ALA:HB2	2:M:337:GLY:CA	2.50	0.42
2:M:129:ILE:CG2	2:M:130:ASN:N	2.82	0.42
2:M:250:ARG:HE	2:M:253:ALA:HB1	1.85	0.42
2:M:473:ARG:NH2	8:M:9920:HOH:O	2.48	0.42
2:M:1105:LYS:H	2:M:1105:LYS:HG2	1.52	0.42
2:M:1109:VAL:HG22	3:N:3:LYS:CG	2.50	0.42
3:N:33:ASN:HB2	3:N:40:GLU:OE1	2.20	0.42
3:N:56:TYR:HA	3:N:80:VAL:CG2	2.49	0.42
3:N:462:GLN:CB	3:N:513:ILE:HD13	2.49	0.42
3:N:543:LEU:HA	3:N:546:ARG:HG3	2.01	0.42
3:N:607:LEU:HA	8:N:2216:HOH:O	2.19	0.42
3:N:1097:LYS:HG2	3:N:1097:LYS:H	1.47	0.42
3:N:1434:TRP:CZ3	3:N:1455:LYS:O	2.73	0.42
5:P:394:ARG:HA	5:P:397:ILE:CD1	2.39	0.42
1:B:86:VAL:HG23	8:B:9516:HOH:O	2.20	0.42
1:B:86:VAL:O	1:B:86:VAL:HG13	2.20	0.42
2:C:44:ILE:HB	8:C:9525:HOH:O	2.18	0.42
2:C:80:GLN:O	2:C:83:CYS:HB2	2.19	0.42
2:C:264:PRO:CB	2:C:289:THR:CB	2.97	0.42
2:C:296:GLY:HA2	8:C:2264:HOH:O	2.19	0.42
2:C:302:VAL:HG12	8:C:9742:HOH:O	2.19	0.42
2:C:676:ILE:HG21	2:C:988:VAL:HG13	1.99	0.42
2:C:683:ASN:CB	2:C:687:ALA:O	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1031:ARG:HD3	3:D:619:LEU:CD2	2.47	0.42
3:D:207:PHE:HE2	8:D:2157:HOH:O	2.01	0.42
3:D:412:GLY:O	3:D:421:LEU:HB3	2.20	0.42
3:D:785:ILE:HG23	3:D:938:GLY:HA3	2.02	0.42
3:D:790:TYR:CE1	3:D:1022:VAL:HG13	2.54	0.42
3:D:910:SER:HB3	8:D:9734:HOH:O	2.19	0.42
3:D:1219:GLU:O	3:D:1221:VAL:N	2.53	0.42
3:D:1320:GLU:O	3:D:1323:GLN:HB2	2.19	0.42
3:D:1425:THR:HG22	3:D:1426:LYS:N	2.34	0.42
4:E:29:GLN:HB2	4:E:33:HIS:HD2	1.84	0.42
4:E:41:GLU:HB3	8:E:9389:HOH:O	2.18	0.42
4:E:45:ARG:HB3	4:E:46:PRO:CD	2.49	0.42
4:E:54:LEU:HG	4:E:58:PRO:CD	2.44	0.42
4:E:54:LEU:CD1	4:E:58:PRO:HB2	2.49	0.42
5:F:363:GLU:CB	8:F:9704:HOH:O	2.67	0.42
1:K:81:ASN:ND2	1:K:128:HIS:O	2.53	0.42
1:K:214:ALA:HA	1:K:217:ILE:HD12	2.00	0.42
1:L:227:ASN:C	8:L:679:HOH:O	2.57	0.42
2:M:38:LYS:HD3	2:M:38:LYS:HA	1.89	0.42
2:M:139:GLN:N	8:M:9656:HOH:O	2.52	0.42
2:M:552:HIS:ND1	2:M:886:LEU:HD13	2.35	0.42
2:M:625:LEU:HD11	2:M:641:PRO:HG3	2.02	0.42
2:M:858:MET:HB2	2:M:859:PRO:CD	2.50	0.42
2:M:1043:TYR:CE2	3:N:763:MET:HG3	2.55	0.42
3:N:153:LEU:CD1	3:N:158:TYR:HB2	2.49	0.42
3:N:228:ALA:HB2	8:N:9528:HOH:O	2.20	0.42
3:N:552:ASN:HB3	8:N:9969:HOH:O	2.18	0.42
3:N:661:MET:CE	3:N:673:ALA:HB1	2.50	0.42
3:N:786:ILE:HD11	3:N:908:LYS:CB	2.49	0.42
3:N:1008:PHE:CZ	3:N:1032:PRO:HA	2.55	0.42
3:N:1344:VAL:HG12	3:N:1348:LEU:HD23	2.00	0.42
4:O:29:GLN:NE2	8:O:895:HOH:O	2.51	0.42
5:P:288:TYR:HE2	5:P:305:GLU:HG3	1.85	0.42
5:P:407:LYS:HG3	8:P:9714:HOH:O	2.19	0.42
1:A:138:LEU:HB2	8:A:9482:HOH:O	2.19	0.42
2:C:157:ARG:HD2	2:C:314:THR:HG22	2.02	0.42
2:C:399:ASN:ND2	2:C:568:ALA:O	2.49	0.42
2:C:440:PRO:HB3	8:D:9725:HOH:O	2.19	0.42
2:C:516:ARG:CD	3:D:1068:LEU:HD13	2.49	0.42
2:C:695:LEU:HD22	2:C:832:LYS:HE2	2.00	0.42
2:C:1005:MET:HE2	3:D:629:SER:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1118:LYS:HZ3	3:D:20:SER:HA	1.84	0.42
3:D:437:VAL:N	8:D:2096:HOH:O	2.52	0.42
3:D:792:ILE:HG12	3:D:793:THR:HG23	2.00	0.42
3:D:853:VAL:HG22	3:D:858:VAL:HB	2.02	0.42
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.49	0.42
3:D:1237:THR:HG22	3:D:1238:MET:N	2.35	0.42
3:D:1342:GLU:HB2	8:D:2486:HOH:O	2.18	0.42
5:F:170:HIS:HA	5:F:173:TYR:HD1	1.84	0.42
1:L:44:LEU:HD23	1:L:48:ILE:CD1	2.50	0.42
2:M:431:HIS:CD2	2:M:433:THR:H	2.37	0.42
2:M:578:VAL:HG11	2:M:991:GLN:HB3	2.01	0.42
2:M:865:THR:HA	2:M:866:PRO:HD3	1.85	0.42
2:M:1005:MET:HG3	2:M:1005:MET:O	2.20	0.42
2:M:1009:SER:OG	3:N:655:PRO:HD3	2.20	0.42
2:M:1037:VAL:HG11	8:M:9845:HOH:O	2.20	0.42
3:N:51:GLY:HA3	8:N:9729:HOH:O	2.19	0.42
3:N:645:PRO:HA	3:N:721:VAL:O	2.19	0.42
3:N:701:LEU:O	3:N:747:VAL:HA	2.20	0.42
3:N:739:ASP:HB2	8:N:2331:HOH:O	2.19	0.42
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.19	0.42
3:N:1106:VAL:O	3:N:1108:ARG:HG2	2.20	0.42
5:P:113:ILE:HG23	5:P:127:ILE:HB	2.02	0.42
1:A:198:ARG:HD3	1:A:200:TRP:HH2	1.85	0.42
2:C:626:ARG:HB3	2:C:629:TYR:HD1	1.85	0.42
2:C:866:PRO:HB2	8:C:9715:HOH:O	2.20	0.42
2:C:966:LEU:HD21	2:C:986:PRO:HG2	2.01	0.42
2:C:978:ARG:HG3	2:C:978:ARG:HH11	1.85	0.42
2:C:1034:GLU:OE2	3:D:1096:ARG:NE	2.52	0.42
3:D:79:GLU:HG2	3:D:80:VAL:H	1.84	0.42
3:D:113:GLY:CA	3:D:124:GLU:OE2	2.68	0.42
3:D:152:LEU:N	3:D:152:LEU:CD2	2.83	0.42
3:D:427:VAL:O	3:D:433:GLY:O	2.38	0.42
3:D:435:VAL:HG22	3:D:446:VAL:HG22	2.01	0.42
3:D:569:ASN:OD1	5:F:80:PRO:HB3	2.20	0.42
5:F:223:ALA:HB2	5:F:242:TRP:HB2	2.01	0.42
1:K:32:PHE:CG	8:K:1204:HOH:O	2.69	0.42
1:L:109:VAL:HA	1:L:113:ASP:OD2	2.19	0.42
1:L:142:VAL:O	1:L:142:VAL:HG23	2.19	0.42
1:L:226:SER:O	1:L:228:PRO:HD3	2.20	0.42
2:M:203:ASP:O	2:M:206:THR:HG22	2.19	0.42
2:M:292:ARG:HD2	2:M:299:LYS:CD	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:683:ASN:HD22	2:M:872:ASN:N	2.18	0.42
2:M:1071:ILE:HG23	3:N:670:VAL:CG2	2.47	0.42
3:N:195:VAL:HG22	8:N:9660:HOH:O	2.18	0.42
3:N:708:LEU:HD21	3:N:1091:SER:OG	2.19	0.42
3:N:978:TYR:CE1	3:N:985:ASP:HA	2.52	0.42
3:N:1044:LEU:HD13	8:N:9593:HOH:O	2.19	0.42
3:N:1104:GLU:O	3:N:1106:VAL:HG23	2.20	0.42
3:N:1149:LEU:HD13	3:N:1153:VAL:HG23	2.01	0.42
3:N:1380:GLU:OE2	3:N:1390:LEU:HD13	2.19	0.42
3:N:1389:LEU:O	3:N:1391:GLU:N	2.52	0.42
3:N:1398:TRP:HE3	3:N:1415:VAL:HG11	1.80	0.42
5:P:413:SER:HG	5:P:419:ARG:HH21	1.63	0.42
1:A:79:ILE:HG21	1:A:165:ILE:HD11	2.01	0.42
2:C:41:ASN:HD22	2:C:41:ASN:N	2.16	0.42
2:C:99:GLN:HG3	2:C:99:GLN:O	2.20	0.42
2:C:200:LEU:HD22	2:C:300:ASP:HB3	2.02	0.42
2:C:287:GLY:HA2	8:C:2319:HOH:O	2.20	0.42
2:C:346:VAL:HG12	2:C:350:ARG:HE	1.85	0.42
2:C:569:VAL:HG11	2:C:996:LYS:HE2	2.01	0.42
2:C:623:TYR:N	8:C:9839:HOH:O	2.44	0.42
2:C:718:GLY:HA3	2:C:761:PHE:CE1	2.55	0.42
2:C:728:HIS:NE2	5:F:423:ASP:O	2.52	0.42
2:C:1038:TRP:CH2	3:D:1096:ARG:HD2	2.55	0.42
2:C:1090:LYS:HZ1	3:D:90:MET:HG3	1.85	0.42
3:D:23:TYR:O	3:D:24:GLY:O	2.38	0.42
3:D:116:LEU:HD22	3:D:464:LEU:HB3	2.02	0.42
3:D:493:ARG:CD	8:D:9868:HOH:O	2.67	0.42
3:D:503:LEU:HA	8:D:9521:HOH:O	2.19	0.42
3:D:566:ILE:CG2	5:F:214:GLN:HE22	2.32	0.42
3:D:798:GLU:CG	3:D:799:LYS:H	2.28	0.42
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.20	0.42
3:D:1472:ILE:HD13	8:D:9619:HOH:O	2.19	0.42
1:K:18:ARG:HH11	1:K:123:MET:HE3	1.85	0.42
1:L:187:GLY:HA2	8:L:2254:HOH:O	2.19	0.42
2:M:630:ARG:HH11	2:M:630:ARG:CG	2.32	0.42
2:M:659:PRO:HD3	8:M:9732:HOH:O	2.19	0.42
2:M:690:ILE:HD13	2:M:690:ILE:HA	1.81	0.42
2:M:707:ARG:HD2	2:M:824:ARG:NH1	2.33	0.42
2:M:739:GLU:O	2:M:740:GLU:C	2.58	0.42
2:M:816:LYS:HB2	2:M:819:VAL:CG2	2.49	0.42
2:M:1012:PRO:HA	8:P:9485:HOH:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1015:LEU:N	8:M:9633:HOH:O	2.53	0.42
3:N:27:GLU:O	3:N:28:LYS:HG3	2.19	0.42
3:N:131:LYS:HD3	3:N:456:MET:CE	2.50	0.42
3:N:401:TYR:HD2	3:N:415:VAL:HG13	1.85	0.42
3:N:422:ALA:HB3	3:N:427:VAL:CG1	2.50	0.42
3:N:477:LEU:HD22	3:N:492:ALA:CB	2.45	0.42
3:N:683:ILE:HG22	3:N:687:VAL:CG2	2.47	0.42
3:N:887:ALA:HB1	3:N:893:GLU:HG3	2.01	0.42
3:N:950:GLY:O	3:N:953:ASP:HB2	2.19	0.42
3:N:993:LEU:O	3:N:997:THR:OG1	2.37	0.42
3:N:1112:CYS:N	8:N:2258:HOH:O	2.53	0.42
3:N:1205:TYR:CZ	3:N:1221:VAL:HG22	2.54	0.42
3:N:1486:VAL:CG2	4:O:22:VAL:HG13	2.50	0.42
1:A:66:SER:O	1:A:75:VAL:HG23	2.20	0.42
1:A:86:VAL:HG23	1:A:202:ASP:OD1	2.20	0.42
2:C:30:LEU:HD22	2:C:118:ILE:HD11	2.01	0.42
2:C:874:LEU:HD21	3:D:787:LEU:HD23	1.98	0.42
2:C:933:GLY:HA3	8:C:2179:HOH:O	2.19	0.42
2:C:1108:PRO:HB2	8:C:2213:HOH:O	2.19	0.42
3:D:135:LEU:HD21	3:D:139:GLY:HA3	2.01	0.42
3:D:714:GLN:HE22	3:D:735:ALA:HB3	1.85	0.42
3:D:1122:LEU:HD12	3:D:1122:LEU:N	2.34	0.42
3:D:1373:ARG:HG2	3:D:1374:GLN:NE2	2.33	0.42
4:E:18:ARG:NH2	8:E:9450:HOH:O	2.51	0.42
4:E:84:ARG:HD2	8:E:9390:HOH:O	2.18	0.42
5:F:286:PRO:HA	5:F:290:GLU:OE1	2.19	0.42
5:F:420:ASP:O	5:F:422:LEU:CD2	2.51	0.42
2:M:243:ARG:HA	2:M:244:PRO:HD3	1.54	0.42
2:M:374:ASN:O	2:M:377:PRO:HD2	2.20	0.42
2:M:413:LEU:HD12	2:M:413:LEU:N	2.34	0.42
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.90	0.42
2:M:610:ARG:HD2	2:M:612:VAL:HG23	2.02	0.42
2:M:627:ARG:O	2:M:638:ASP:HB3	2.19	0.42
3:N:18:ILE:HD12	3:N:518:PRO:HD3	2.01	0.42
3:N:82:LYS:HB3	8:N:2103:HOH:O	2.19	0.42
3:N:99:ALA:HB1	3:N:575:GLN:HA	2.01	0.42
3:N:628:ARG:HG2	3:N:629:SER:N	2.34	0.42
3:N:826:PRO:HB3	8:N:9926:HOH:O	2.19	0.42
3:N:864:VAL:CG1	3:N:865:THR:N	2.83	0.42
3:N:1319:VAL:O	3:N:1319:VAL:HG23	2.20	0.42
4:O:48:MET:N	4:O:54:LEU:HB2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:94:LEU:CD1	5:P:96:LEU:H	2.13	0.42
5:P:156:VAL:N	8:P:9471:HOH:O	2.46	0.42
5:P:195:VAL:HG12	5:P:213:ILE:HG23	2.02	0.42
5:P:361:LEU:HD12	5:P:366:ALA:CB	2.49	0.42
1:A:209:GLU:O	1:A:213:GLN:HG3	2.20	0.41
1:B:5:LYS:O	1:B:8:ALA:CB	2.64	0.41
1:B:191:ASP:O	1:B:191:ASP:CG	2.57	0.41
2:C:143:SER:HB3	2:C:332:ARG:HB2	2.01	0.41
2:C:168:ARG:N	2:C:168:ARG:HD2	2.33	0.41
2:C:217:LEU:HD12	2:C:311:PHE:HA	2.01	0.41
2:C:690:ILE:HG21	2:C:833:LEU:CD2	2.47	0.41
2:C:1067:TYR:CE2	5:F:345:ALA:HB2	2.55	0.41
3:D:195:VAL:HG22	8:D:9592:HOH:O	2.20	0.41
3:D:508:ARG:HA	3:D:509:PRO:HD2	1.28	0.41
3:D:678:GLU:HB2	8:D:9785:HOH:O	2.19	0.41
3:D:1099:VAL:HG13	3:D:1223:ILE:HG13	2.02	0.41
3:D:1197:ARG:N	8:D:9488:HOH:O	2.53	0.41
3:D:1217:ILE:HG21	3:D:1480:PHE:CD2	2.55	0.41
1:K:186:LEU:HB2	1:K:192:LEU:HD11	2.01	0.41
1:K:225:PHE:HB2	8:K:5027:HOH:O	2.19	0.41
1:L:65:PHE:HD1	8:L:3952:HOH:O	2.03	0.41
2:M:18:LEU:HD23	2:M:542:VAL:HG21	2.01	0.41
2:M:52:PHE:O	2:M:54:ILE:N	2.53	0.41
2:M:103:LYS:HD3	2:M:103:LYS:HA	1.58	0.41
2:M:253:ALA:N	8:M:9827:HOH:O	2.53	0.41
2:M:439:CYS:SG	2:M:541:SER:N	2.90	0.41
2:M:536:PRO:HB2	2:M:905:ILE:HD12	2.00	0.41
2:M:571:LEU:HD21	2:M:700:TYR:CD2	2.55	0.41
2:M:614:ARG:HH11	2:M:614:ARG:CG	2.33	0.41
2:M:639:GLN:HA	2:M:657:ASP:O	2.20	0.41
2:M:650:ARG:HG2	2:M:653:ASP:HB2	2.01	0.41
2:M:777:ILE:HG22	2:M:778:PHE:HD1	1.85	0.41
2:M:778:PHE:HE2	5:P:419:ARG:HD3	1.79	0.41
2:M:918:LEU:HD23	2:M:968:LEU:O	2.20	0.41
2:M:1098:ASP:O	3:N:9:ARG:O	2.38	0.41
3:N:91:GLY:O	3:N:519:VAL:N	2.53	0.41
3:N:455:ARG:HH22	5:P:140:ARG:CB	2.33	0.41
3:N:654:LYS:O	3:N:658:LEU:HG	2.20	0.41
3:N:1042:ARG:HH12	3:N:1045:MET:CE	2.32	0.41
3:N:1209:LEU:C	3:N:1211:MET:N	2.69	0.41
5:P:79:ASP:HB3	5:P:80:PRO:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:140:ARG:HG3	5:P:141:VAL:N	2.33	0.41
1:A:5:LYS:O	1:A:8:ALA:CB	2.65	0.41
2:C:279:GLU:HG3	2:C:280:LYS:N	2.35	0.41
2:C:749:VAL:HG23	2:C:749:VAL:O	2.20	0.41
2:C:1031:ARG:CD	3:D:619:LEU:HD21	2.49	0.41
3:D:83:SER:HA	8:D:9655:HOH:O	2.19	0.41
3:D:191:LEU:HD23	3:D:191:LEU:HA	1.87	0.41
3:D:191:LEU:CG	3:D:211:VAL:HG21	2.50	0.41
3:D:704:ARG:CG	3:D:705:ALA:N	2.83	0.41
3:D:899:LEU:HD13	3:D:900:ILE:HG23	2.02	0.41
3:D:1022:VAL:CG2	8:D:9500:HOH:O	2.66	0.41
3:D:1106:VAL:O	3:D:1108:ARG:HG2	2.21	0.41
5:F:286:PRO:HB3	8:F:9483:HOH:O	2.19	0.41
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.49	0.41
1:L:171:PHE:O	1:L:173:PRO:HD3	2.20	0.41
1:L:191:ASP:O	1:L:192:LEU:HD23	2.21	0.41
2:M:249:LYS:O	2:M:249:LYS:HE3	2.20	0.41
2:M:274:ARG:NH2	8:M:9939:HOH:O	2.52	0.41
2:M:548:PRO:CG	2:M:842:ARG:NH2	2.84	0.41
2:M:553:ASP:OD1	2:M:843:HIS:ND1	2.53	0.41
2:M:577:PRO:HG3	2:M:993:PHE:CD2	2.55	0.41
2:M:954:THR:N	8:M:9892:HOH:O	2.53	0.41
3:N:33:ASN:OD1	3:N:40:GLU:HG2	2.21	0.41
3:N:91:GLY:O	3:N:519:VAL:HB	2.20	0.41
3:N:640:HIS:HE1	3:N:717:GLN:CD	2.24	0.41
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.54	0.41
3:N:1335:LEU:HD23	3:N:1335:LEU:O	2.20	0.41
3:N:1471:LEU:HB3	8:N:9651:HOH:O	2.19	0.41
5:P:163:LEU:CB	5:P:174:LEU:HG	2.45	0.41
5:P:416:ARG:NH1	5:P:419:ARG:CD	2.70	0.41
1:A:219:ARG:NH1	1:B:219:ARG:CG	2.84	0.41
1:B:91:ASN:H	1:B:94:LEU:HD13	1.86	0.41
2:C:190:LYS:H	2:C:190:LYS:HG3	1.51	0.41
2:C:230:ARG:HB3	8:C:2241:HOH:O	2.20	0.41
2:C:334:ARG:HB3	2:C:338:GLU:OE2	2.20	0.41
2:C:417:GLY:C	2:C:418:LEU:HD13	2.41	0.41
2:C:589:ARG:HD3	2:C:596:TYR:CZ	2.54	0.41
2:C:654:LEU:HD23	2:C:654:LEU:O	2.20	0.41
2:C:949:LYS:HB2	3:D:796:ARG:HH21	1.85	0.41
2:C:962:GLN:NE2	8:C:9534:HOH:O	2.52	0.41
2:C:1067:TYR:CZ	2:C:1071:ILE:HD11	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1098:ASP:HB3	3:D:11:ALA:O	2.20	0.41
3:D:6:ARG:HG2	8:D:2460:HOH:O	2.19	0.41
3:D:12:LEU:HD13	3:D:511:TRP:HB2	2.02	0.41
3:D:58:CYS:HA	3:D:78:VAL:HG11	2.01	0.41
3:D:104:PHE:CD1	3:D:512:MET:HG2	2.54	0.41
3:D:1240:THR:O	3:D:1243:THR:HG23	2.21	0.41
4:E:81:PRO:HB3	8:E:9387:HOH:O	2.19	0.41
5:F:288:TYR:HE2	5:F:305:GLU:HA	1.85	0.41
5:F:302:LYS:HE3	5:F:306:GLU:OE2	2.20	0.41
1:K:176:ARG:HB2	8:M:2117:HOH:O	2.19	0.41
1:L:81:ASN:CG	8:L:1941:HOH:O	2.58	0.41
1:L:101:LEU:HD23	1:L:101:LEU:C	2.41	0.41
2:M:17:PRO:CD	8:M:9519:HOH:O	2.61	0.41
2:M:45:GLN:HB3	8:M:9520:HOH:O	2.19	0.41
2:M:290:LEU:HD23	2:M:290:LEU:N	2.35	0.41
2:M:293:PHE:CD2	2:M:293:PHE:O	2.73	0.41
2:M:401:LEU:HD13	2:M:587:VAL:CG1	2.50	0.41
2:M:721:ARG:HE	2:M:783:ARG:HH21	1.63	0.41
2:M:762:LYS:HB2	8:M:9919:HOH:O	2.20	0.41
2:M:913:GLU:N	8:M:9582:HOH:O	2.53	0.41
8:M:9803:HOH:O	3:N:1054:GLU:HB2	2.19	0.41
3:N:23:TYR:O	3:N:49:ILE:HG23	2.20	0.41
3:N:97:THR:HG23	5:P:144:ILE:HG21	2.02	0.41
3:N:181:ASP:OD2	3:N:198:ARG:HB2	2.20	0.41
3:N:640:HIS:CD2	3:N:641:GLN:HG3	2.55	0.41
3:N:783:ARG:HA	3:N:1028:ALA:HA	2.02	0.41
3:N:1032:PRO:HG2	8:N:9991:HOH:O	2.19	0.41
3:N:1099:VAL:O	3:N:1099:VAL:HG12	2.21	0.41
3:N:1495:ILE:HD12	8:O:1862:HOH:O	2.20	0.41
1:B:44:LEU:HD23	1:B:48:ILE:HD12	2.02	0.41
1:B:220:GLU:O	1:B:223:THR:HG23	2.20	0.41
2:C:58:ASP:O	2:C:59:LYS:HG3	2.19	0.41
2:C:139:GLN:O	2:C:334:ARG:N	2.51	0.41
2:C:285:LEU:N	8:C:9567:HOH:O	2.44	0.41
2:C:298:PHE:H	2:C:298:PHE:HD1	1.68	0.41
2:C:438:ILE:HD13	2:C:453:THR:CG2	2.50	0.41
2:C:1008:ARG:HB2	2:C:1027:PHE:HB2	2.02	0.41
2:C:1115:LEU:H	2:C:1115:LEU:CD1	2.07	0.41
2:C:1117:SER:HB2	8:C:9543:HOH:O	2.20	0.41
3:D:378:ILE:HA	8:D:2467:HOH:O	2.20	0.41
3:D:428:LYS:HD3	3:D:451:ASP:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:598:ARG:HA	3:D:599:PRO:HD3	1.92	0.41
3:D:701:LEU:C	3:D:702:LEU:HD12	2.40	0.41
3:D:863:VAL:HG23	8:D:9732:HOH:O	2.21	0.41
3:D:1010:ASN:ND2	8:D:2570:HOH:O	2.52	0.41
3:D:1017:PHE:HA	8:D:9500:HOH:O	2.21	0.41
3:D:1111:ASP:O	3:D:1112:CYS:C	2.58	0.41
3:D:1197:ARG:NH2	8:D:2227:HOH:O	2.53	0.41
3:D:1241:PHE:CE2	3:D:1260:ILE:HG13	2.54	0.41
3:D:1264:GLU:HB3	3:D:1266:ARG:CD	2.49	0.41
3:D:1273:VAL:HG22	3:D:1326:THR:HG1	1.85	0.41
3:D:1306:PRO:HB3	8:D:2459:HOH:O	2.21	0.41
3:D:1458:GLU:O	3:D:1460:ILE:HG13	2.20	0.41
3:D:1483:PHE:CD1	3:D:1483:PHE:N	2.87	0.41
5:F:93:LEU:HD22	5:F:98:GLU:CB	2.40	0.41
5:F:338:LEU:N	5:F:338:LEU:HD23	2.35	0.41
1:K:50:GLY:HA3	1:K:171:PHE:O	2.20	0.41
2:M:45:GLN:NE2	8:M:9520:HOH:O	2.52	0.41
2:M:69:LEU:HD13	2:M:97:ARG:NE	2.35	0.41
2:M:209:ARG:HB3	8:M:2238:HOH:O	2.19	0.41
2:M:272:ALA:HB1	8:M:9764:HOH:O	2.19	0.41
2:M:293:PHE:O	2:M:293:PHE:CG	2.73	0.41
2:M:568:ALA:CB	2:M:668:LEU:HD22	2.46	0.41
2:M:723:THR:C	2:M:725:ASP:H	2.23	0.41
2:M:734:LEU:O	2:M:735:ARG:C	2.58	0.41
3:N:72:VAL:HG22	3:N:79:GLU:HB2	2.03	0.41
3:N:521:PRO:HB2	3:N:524:LEU:HD12	2.00	0.41
3:N:556:LYS:HE2	3:N:556:LYS:HB3	1.92	0.41
3:N:616:GLN:CG	5:P:326:ASP:HB2	2.51	0.41
3:N:827:ILE:HD12	3:N:828:LYS:HZ1	1.85	0.41
3:N:1242:HIS:HE1	3:N:1261:GLU:HA	1.84	0.41
5:P:93:LEU:HG	5:P:190:ALA:HB1	2.03	0.41
5:P:264:MET:O	5:P:268:ILE:HG13	2.20	0.41
5:P:401:GLU:CG	5:P:402:ASN:OD1	2.68	0.41
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.84	0.41
1:A:184:THR:HG23	1:A:192:LEU:HB2	2.01	0.41
1:B:88:ARG:CB	1:B:123:MET:HE2	2.51	0.41
2:C:10:ARG:HD2	2:C:10:ARG:HA	1.57	0.41
2:C:148:PHE:CZ	2:C:281:LEU:HD13	2.55	0.41
2:C:395:LYS:HE3	2:C:407:LYS:HZ3	1.85	0.41
2:C:926:PHE:HE1	2:C:929:ARG:NH2	2.19	0.41
2:C:943:VAL:HG22	2:C:985:GLY:N	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:116:LEU:C	3:D:118:LEU:HD13	2.41	0.41
3:D:126:VAL:O	3:D:132:TYR:HD1	2.04	0.41
3:D:162:ARG:HE	3:D:162:ARG:HB2	1.50	0.41
3:D:214:GLU:HB3	3:D:390:PRO:HD2	2.02	0.41
3:D:644:LEU:HD23	3:D:718:PRO:HB3	2.03	0.41
3:D:644:LEU:HD23	3:D:718:PRO:CG	2.50	0.41
3:D:699:VAL:HB	3:D:716:PHE:O	2.20	0.41
3:D:872:ARG:C	8:D:2489:HOH:O	2.59	0.41
4:E:69:LEU:HD21	8:E:9379:HOH:O	2.21	0.41
5:F:267:THR:HG23	5:F:299:TRP:CH2	2.56	0.41
1:K:152:PRO:HA	1:K:168:ASP:OD1	2.20	0.41
2:M:70:GLU:OE1	2:M:97:ARG:HD3	2.19	0.41
2:M:80:GLN:O	2:M:83:CYS:HB2	2.21	0.41
2:M:115:LEU:HD12	2:M:378:LEU:CD2	2.51	0.41
2:M:415:PRO:HB2	8:M:9616:HOH:O	2.20	0.41
2:M:549:PHE:N	2:M:549:PHE:CD2	2.88	0.41
2:M:668:LEU:H	2:M:993:PHE:HZ	1.67	0.41
3:N:14:SER:HA	3:N:511:TRP:CD2	2.56	0.41
3:N:116:LEU:O	3:N:118:LEU:N	2.54	0.41
3:N:116:LEU:HB3	3:N:118:LEU:CD1	2.51	0.41
3:N:122:GLU:HB3	8:N:2207:HOH:O	2.20	0.41
3:N:166:GLN:HB3	3:N:395:VAL:HG21	2.02	0.41
3:N:1368:ILE:H	3:N:1368:ILE:HG13	1.69	0.41
3:N:1413:THR:HG21	8:N:9997:HOH:O	2.20	0.41
5:P:189:GLU:O	5:P:192:LEU:HD12	2.21	0.41
5:P:256:ARG:N	8:P:9547:HOH:O	2.53	0.41
5:P:267:THR:HG23	5:P:299:TRP:CH2	2.55	0.41
5:P:370:LYS:HG2	5:P:371:LEU:N	2.35	0.41
1:A:42:ARG:HH12	2:C:856:GLU:C	2.24	0.41
1:A:48:ILE:HD13	1:A:210:ALA:HB1	2.03	0.41
1:A:133:GLU:OE1	2:C:605:LYS:HB3	2.21	0.41
1:A:224:TYR:CG	1:B:9:PRO:HG2	2.55	0.41
1:B:34:VAL:HG12	8:C:2221:HOH:O	2.21	0.41
2:C:127:PHE:CE1	2:C:386:PHE:CE2	3.09	0.41
2:C:197:LEU:HD13	2:C:207:LEU:HD21	2.03	0.41
2:C:293:PHE:O	2:C:293:PHE:CG	2.74	0.41
2:C:436:GLY:O	2:C:459:ALA:HB2	2.20	0.41
2:C:510:ALA:O	2:C:513:VAL:HG23	2.21	0.41
2:C:882:LEU:HD23	2:C:882:LEU:HA	1.72	0.41
2:C:1095:LEU:O	2:C:1097:LEU:N	2.54	0.41
3:D:131:LYS:CG	3:D:568:ARG:HG2	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:603:LEU:CD2	3:D:606:ILE:HD12	2.50	0.41
3:D:631:ILE:HG21	3:D:745:MET:HB2	2.03	0.41
3:D:825:ALA:HA	3:D:826:PRO:HD3	1.92	0.41
3:D:866:VAL:CG1	3:D:867:ARG:N	2.83	0.41
3:D:897:TRP:HA	3:D:900:ILE:HG12	2.02	0.41
3:D:1124:GLN:NE2	8:D:2167:HOH:O	2.52	0.41
5:F:113:ILE:HG23	5:F:127:ILE:HB	2.02	0.41
5:F:284:ARG:O	5:F:286:PRO:N	2.54	0.41
2:M:47:ALA:HB2	2:M:345:ARG:NH1	2.35	0.41
2:M:328:LEU:HD13	2:M:433:THR:CB	2.27	0.41
2:M:480:THR:HG22	2:M:482:GLU:N	2.31	0.41
2:M:814:GLU:HB2	8:M:2118:HOH:O	2.21	0.41
2:M:910:LYS:HB3	2:M:912:PRO:HD2	2.02	0.41
2:M:1068:GLU:O	2:M:1071:ILE:HB	2.20	0.41
2:M:1096:ALA:HB1	3:N:13:ALA:CB	2.50	0.41
3:N:98:PRO:HB2	8:N:2256:HOH:O	2.20	0.41
3:N:191:LEU:HD21	8:N:2354:HOH:O	2.21	0.41
3:N:1095:THR:HG23	3:N:1226:ALA:O	2.21	0.41
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.21	0.41
3:N:1281:VAL:HG12	3:N:1282:ARG:N	2.35	0.41
1:B:41:ARG:HG3	1:B:41:ARG:NH1	2.35	0.41
1:B:228:PRO:O	1:B:229:GLN:HB2	2.20	0.41
2:C:23:VAL:HG11	8:C:2155:HOH:O	2.20	0.41
2:C:49:ARG:CG	8:C:9834:HOH:O	2.69	0.41
2:C:193:LEU:N	8:C:9548:HOH:O	2.53	0.41
2:C:243:ARG:HG2	2:C:243:ARG:NH1	2.35	0.41
2:C:252:LYS:O	2:C:256:TYR:CD2	2.73	0.41
2:C:571:LEU:HD21	2:C:700:TYR:CD2	2.56	0.41
2:C:626:ARG:NH2	8:C:2123:HOH:O	2.53	0.41
2:C:725:ASP:CB	2:C:783:ARG:NH1	2.84	0.41
2:C:767:PRO:HG2	8:C:2324:HOH:O	2.19	0.41
2:C:862:PRO:HG2	2:C:925:TYR:OH	2.20	0.41
2:C:897:LEU:HB3	2:C:899:GLN:CG	2.51	0.41
2:C:947:ALA:O	2:C:950:LEU:HB3	2.20	0.41
2:C:1019:GLN:HA	2:C:1020:PRO:HD3	1.88	0.41
2:C:1075:ASP:HB2	8:E:9418:HOH:O	2.20	0.41
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.21	0.41
3:D:22:SER:HA	3:D:90:MET:O	2.21	0.41
3:D:163:TYR:HD1	8:D:2510:HOH:O	2.04	0.41
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.21	0.41
3:D:421:LEU:HD12	3:D:435:VAL:CG1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:637:LEU:HD23	3:D:729:HIS:HA	2.01	0.41
3:D:714:GLN:HB2	3:D:736:PHE:HZ	1.85	0.41
4:E:30:LEU:HD21	4:E:63:TRP:CE3	2.55	0.41
5:F:218:GLN:O	5:F:218:GLN:HG3	2.18	0.41
5:F:292:ALA:HA	5:F:299:TRP:HB3	2.03	0.41
5:F:351:SER:O	5:F:355:GLU:HB2	2.20	0.41
1:K:19:GLU:HB2	8:K:2111:HOH:O	2.21	0.41
1:K:222:LEU:CD1	1:L:215:VAL:HB	2.40	0.41
1:L:86:VAL:HG13	1:L:86:VAL:O	2.21	0.41
2:M:112:GLU:HG3	8:M:9779:HOH:O	2.20	0.41
2:M:204:GLN:HB3	8:M:9635:HOH:O	2.20	0.41
2:M:211:LEU:HD21	2:M:311:PHE:CE1	2.55	0.41
2:M:448:ASN:CB	2:M:452:ILE:HD11	2.50	0.41
2:M:548:PRO:HG2	2:M:842:ARG:NH2	2.36	0.41
2:M:550:LEU:HD12	2:M:550:LEU:O	2.21	0.41
2:M:843:HIS:CD2	2:M:884:GLN:CA	3.04	0.41
2:M:946:ARG:CD	2:M:984:GLU:HB2	2.51	0.41
2:M:1056:LYS:HD2	8:M:2051:HOH:O	2.21	0.41
3:N:98:PRO:C	3:N:458:ALA:HB3	2.41	0.41
3:N:191:LEU:HA	8:N:9660:HOH:O	2.21	0.41
3:N:240:GLU:O	3:N:243:ALA:N	2.53	0.41
3:N:466:LYS:HE2	8:N:9669:HOH:O	2.20	0.41
3:N:809:PRO:HB2	3:N:812:ALA:H	1.86	0.41
3:N:930:LEU:O	3:N:933:ALA:HB3	2.21	0.41
3:N:970:LYS:HB2	3:N:970:LYS:HE3	1.94	0.41
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.21	0.41
3:N:1433:SER:HB2	3:N:1457:ASP:CG	2.41	0.41
5:P:416:ARG:HH11	5:P:419:ARG:CG	2.33	0.41
1:B:102:LYS:HD3	8:B:9575:HOH:O	2.19	0.41
2:C:41:ASN:HB3	8:C:9503:HOH:O	2.20	0.41
2:C:144:PRO:CG	2:C:165:LEU:HD23	2.50	0.41
2:C:182:VAL:HG13	8:C:9517:HOH:O	2.19	0.41
2:C:250:ARG:HE	2:C:253:ALA:HB1	1.80	0.41
2:C:286:SER:HB3	2:C:299:LYS:HZ1	1.85	0.41
2:C:516:ARG:CZ	3:D:1068:LEU:HB3	2.51	0.41
2:C:557:ARG:CZ	2:C:879:ARG:HG2	2.51	0.41
2:C:1049:LEU:O	2:C:1053:LEU:HD23	2.20	0.41
3:D:53:ILE:C	8:D:9932:HOH:O	2.59	0.41
3:D:675:ARG:HG2	3:D:678:GLU:OE2	2.21	0.41
3:D:704:ARG:CZ	3:D:743:ASP:OD1	2.69	0.41
3:D:1145:TYR:HD2	3:D:1146:GLY:N	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1169:ASP:HB3	8:D:2458:HOH:O	2.20	0.41
3:D:1295:GLU:HB3	3:D:1300:SER:HB3	2.02	0.41
5:F:309:LYS:HA	8:F:9730:HOH:O	2.21	0.41
1:K:88:ARG:NH1	8:K:1036:HOH:O	2.53	0.41
1:K:186:LEU:H	1:K:192:LEU:HD12	1.86	0.41
1:L:45:LEU:HD21	1:L:177:VAL:HG23	2.03	0.41
2:M:151:ASP:CG	2:M:152:PRO:HD2	2.41	0.41
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.51	0.41
2:M:285:LEU:HD21	2:M:290:LEU:HD23	2.03	0.41
2:M:349:ALA:O	2:M:353:ARG:HG3	2.20	0.41
2:M:384:GLU:CG	2:M:388:ARG:HH21	2.33	0.41
2:M:501:THR:O	2:M:502:PRO:C	2.59	0.41
2:M:516:ARG:NE	3:N:1068:LEU:HD22	2.36	0.41
2:M:748:GLU:N	8:M:9997:HOH:O	2.53	0.41
2:M:1050:GLN:CD	2:M:1079:PRO:HG2	2.40	0.41
2:M:1056:LYS:C	8:N:2406:HOH:O	2.59	0.41
2:M:1102:LEU:O	3:N:5:VAL:HA	2.20	0.41
3:N:181:ASP:OD1	3:N:198:ARG:HD2	2.20	0.41
3:N:186:VAL:HG22	3:N:211:VAL:CG1	2.51	0.41
3:N:693:GLU:CG	4:O:48:MET:SD	3.06	0.41
3:N:895:VAL:O	3:N:895:VAL:HG12	2.21	0.41
3:N:1050:GLY:HA3	8:N:2250:HOH:O	2.20	0.41
3:N:1116:ASN:ND2	3:N:1116:ASN:O	2.51	0.41
4:O:18:ARG:O	4:O:22:VAL:HG23	2.21	0.41
4:O:45:ARG:HH22	4:O:72:ARG:NH2	2.18	0.41
5:P:101:GLU:O	5:P:105:LYS:HG3	2.21	0.41
5:P:120:THR:CG2	5:P:122:LEU:HD13	2.50	0.41
5:P:392:VAL:HG12	5:P:396:ARG:HB2	2.02	0.41
1:A:26:GLU:CB	1:A:194:LYS:HG3	2.49	0.41
1:A:32:PHE:CZ	1:B:47:SER:OG	2.74	0.41
1:A:33:GLY:CA	1:A:195:LEU:HB2	2.51	0.41
1:A:183:ASP:HB2	8:A:9529:HOH:O	2.19	0.41
1:B:32:PHE:C	8:B:9655:HOH:O	2.58	0.41
1:B:75:VAL:O	1:B:79:ILE:HG12	2.21	0.41
1:B:87:VAL:CG2	1:B:144:VAL:HG11	2.49	0.41
1:B:115:LEU:HA	1:B:116:PRO:HD3	1.93	0.41
2:C:2:GLU:CB	8:C:2326:HOH:O	2.68	0.41
2:C:58:ASP:O	2:C:59:LYS:CG	2.69	0.41
2:C:188:LYS:HE3	8:C:9927:HOH:O	2.20	0.41
2:C:250:ARG:HB3	2:C:253:ALA:CB	2.50	0.41
2:C:264:PRO:HB2	2:C:289:THR:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:498:GLN:NE2	2:C:533:ASP:OD2	2.53	0.41
2:C:534:VAL:H	2:C:538:GLN:HE22	1.68	0.41
2:C:545:ASN:HA	2:C:905:ILE:HD11	2.03	0.41
2:C:573:ARG:HB3	2:C:670:GLN:HE21	1.85	0.41
2:C:593:ALA:HB3	8:C:9533:HOH:O	2.20	0.41
2:C:606:VAL:HG22	2:C:645:VAL:HG22	2.01	0.41
2:C:611:ILE:N	8:C:9839:HOH:O	2.53	0.41
2:C:678:PRO:HG3	2:C:873:PRO:HD2	2.03	0.41
2:C:865:THR:HA	2:C:866:PRO:HD3	1.85	0.41
2:C:957:LYS:HG3	8:C:9735:HOH:O	2.21	0.41
3:D:6:ARG:CZ	8:D:2044:HOH:O	2.69	0.41
3:D:57:GLU:HA	8:D:9598:HOH:O	2.20	0.41
3:D:91:GLY:O	3:D:519:VAL:HB	2.21	0.41
3:D:162:ARG:HB3	8:D:2585:HOH:O	2.21	0.41
3:D:177:ALA:HB1	3:D:199:LEU:HB3	2.03	0.41
3:D:192:ALA:HB1	3:D:193:PRO:CD	2.51	0.41
3:D:243:ALA:HA	8:D:9999:HOH:O	2.21	0.41
3:D:527:MET:HE2	3:D:535:PHE:HB3	2.02	0.41
3:D:583:ASP:HA	3:D:602:SER:CB	2.51	0.41
3:D:850:LEU:O	3:D:853:VAL:HB	2.21	0.41
3:D:863:VAL:HG12	8:D:9719:HOH:O	2.21	0.41
3:D:868:TYR:CE1	3:D:869:MET:SD	3.13	0.41
3:D:916:TYR:C	3:D:916:TYR:CD2	2.94	0.41
3:D:954:ALA:HB3	8:D:2373:HOH:O	2.20	0.41
3:D:999:THR:HA	3:D:1002:LYS:HD2	2.03	0.41
3:D:1114:THR:CG2	3:D:1195:GLN:HB3	2.51	0.41
3:D:1283:ILE:HG22	3:D:1284:GLU:N	2.36	0.41
3:D:1476:THR:HG23	4:E:21:VAL:CG2	2.51	0.41
5:F:78:SER:HB2	5:F:82:ARG:HH21	1.84	0.41
5:F:160:ASP:O	5:F:163:LEU:HB2	2.21	0.41
5:F:416:ARG:CD	5:F:419:ARG:HB3	2.50	0.41
1:K:179:PHE:HZ	2:M:980:GLY:HA3	1.86	0.41
1:L:100:LEU:HB2	1:L:115:LEU:HD11	2.02	0.41
1:L:138:LEU:O	1:L:138:LEU:HD23	2.21	0.41
2:M:10:ARG:HA	2:M:10:ARG:HD3	1.71	0.41
2:M:31:GLN:HE21	2:M:31:GLN:HB3	1.47	0.41
2:M:119:PRO:HG2	2:M:386:PHE:CG	2.56	0.41
2:M:158:TYR:CD1	2:M:313:LEU:HD11	2.55	0.41
2:M:343:GLN:HG2	2:M:385:PHE:CB	2.46	0.41
2:M:358:ARG:NH2	2:M:374:ASN:OD1	2.54	0.41
2:M:495:THR:HG21	2:M:524:VAL:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:555:ALA:HB3	8:N:9822:HOH:O	2.20	0.41
2:M:564:MET:CE	2:M:564:MET:HA	2.51	0.41
2:M:614:ARG:NH1	2:M:614:ARG:HG2	2.34	0.41
2:M:626:ARG:N	8:M:9859:HOH:O	2.54	0.41
2:M:670:GLN:O	2:M:672:VAL:HG12	2.20	0.41
2:M:706:GLU:N	2:M:827:VAL:O	2.53	0.41
2:M:749:VAL:HG23	2:M:792:VAL:HG21	2.03	0.41
2:M:850:ALA:HA	3:N:632:VAL:CG1	2.51	0.41
2:M:897:LEU:CG	2:M:899:GLN:HE21	2.34	0.41
2:M:909:ALA:O	2:M:910:LYS:HD2	2.21	0.41
2:M:915:LYS:HD3	2:M:968:LEU:O	2.21	0.41
2:M:930:LYS:HG2	8:M:2243:HOH:O	2.20	0.41
2:M:1078:GLU:HA	2:M:1079:PRO:HD3	1.84	0.41
3:N:30:GLU:HG3	3:N:41:ARG:HG2	2.03	0.41
3:N:49:ILE:HG22	3:N:50:PHE:CD1	2.56	0.41
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.45	0.41
3:N:54:LYS:HG2	3:N:55:ASP:H	1.86	0.41
3:N:112:ILE:HD12	3:N:112:ILE:O	2.21	0.41
3:N:194:GLY:HA2	8:N:9727:HOH:O	2.20	0.41
3:N:572:ARG:HA	8:N:2401:HOH:O	2.21	0.41
3:N:845:ASN:ND2	3:N:846:PRO:HD2	2.35	0.41
3:N:925:GLU:HG2	3:N:926:LYS:N	2.36	0.41
3:N:964:LEU:O	3:N:968:ASP:HB2	2.21	0.41
3:N:978:TYR:HD1	3:N:988:ARG:HB2	1.85	0.41
3:N:1019:PRO:O	3:N:1023:MET:HG3	2.20	0.41
3:N:1057:VAL:HG13	3:N:1069:GLU:CB	2.50	0.41
3:N:1087:ARG:HH22	3:N:1256:LEU:HD22	1.76	0.41
3:N:1097:LYS:HA	8:N:9612:HOH:O	2.21	0.41
3:N:1124:GLN:CD	3:N:1135:ARG:HA	2.41	0.41
3:N:1244:GLY:N	8:N:9796:HOH:O	2.52	0.41
3:N:1283:ILE:HG22	3:N:1284:GLU:H	1.85	0.41
3:N:1393:GLN:HB3	3:N:1398:TRP:HE1	1.84	0.41
3:N:1396:GLU:HB3	8:N:9673:HOH:O	2.21	0.41
5:P:209:PHE:CD2	5:P:213:ILE:HD11	2.56	0.41
5:P:257:THR:CB	5:P:314:PRO:HG2	2.46	0.41
5:P:319:THR:HG22	5:P:320:PRO:HD2	2.02	0.41
5:P:372:ARG:HD3	5:P:388:ALA:HA	2.02	0.41
1:B:48:ILE:HD13	1:B:210:ALA:HB1	2.02	0.41
2:C:355:VAL:HG23	2:C:372:LEU:CA	2.50	0.41
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.21	0.41
2:C:443:THR:HG21	2:C:449:ILE:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:569:VAL:O	2:C:569:VAL:HG13	2.21	0.41
2:C:734:LEU:O	2:C:735:ARG:C	2.59	0.41
2:C:735:ARG:HH11	2:C:735:ARG:HG2	1.86	0.41
3:D:47:GLU:H	3:D:47:GLU:HG2	1.28	0.41
3:D:521:PRO:O	3:D:525:ARG:NH1	2.53	0.41
3:D:809:PRO:O	3:D:812:ALA:HB3	2.20	0.41
3:D:1101:VAL:HG21	3:D:1424:VAL:O	2.21	0.41
3:D:1121:PRO:HD3	8:D:2230:HOH:O	2.20	0.41
3:D:1288:GLU:N	8:D:9557:HOH:O	2.50	0.41
3:D:1459:LEU:CD1	3:D:1468:LEU:HD12	2.50	0.41
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.50	0.41
5:F:271:LEU:HD12	5:F:307:THR:HG21	2.03	0.41
1:K:26:GLU:HB3	1:K:194:LYS:HG3	2.03	0.41
1:K:94:LEU:HD12	1:K:94:LEU:N	2.36	0.41
1:L:115:LEU:HA	1:L:116:PRO:HD3	1.93	0.41
2:M:206:THR:O	2:M:210:GLU:HG3	2.21	0.41
2:M:370:ALA:HB3	8:P:9629:HOH:O	2.21	0.41
2:M:588:VAL:HG23	2:M:596:TYR:OH	2.21	0.41
2:M:673:LEU:HD21	2:M:895:TYR:CE2	2.56	0.41
2:M:799:ILE:HD13	2:M:799:ILE:N	2.35	0.41
2:M:910:LYS:HE3	8:M:9916:HOH:O	2.21	0.41
3:N:54:LYS:HB3	3:N:57:GLU:HB2	2.03	0.41
3:N:67:ARG:HD2	3:N:67:ARG:HA	1.89	0.41
3:N:154:THR:HG22	3:N:156:GLU:H	1.86	0.41
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.56	0.41
3:N:827:ILE:O	3:N:837:GLY:HA3	2.21	0.41
3:N:914:LEU:HD23	3:N:914:LEU:O	2.21	0.41
3:N:1096:ARG:HB2	3:N:1096:ARG:HH11	1.85	0.41
3:N:1209:LEU:HD23	4:O:16:LYS:HD2	2.02	0.41
3:N:1458:GLU:HG2	8:N:9602:HOH:O	2.21	0.41
5:P:403:LYS:HB3	8:P:9587:HOH:O	2.20	0.41
2:C:12:VAL:HG22	2:C:13:ILE:HG23	2.04	0.40
2:C:52:PHE:O	2:C:54:ILE:N	2.54	0.40
2:C:66:LEU:HD13	2:C:100:LEU:CB	2.48	0.40
2:C:166:PRO:HG2	8:C:9971:HOH:O	2.21	0.40
2:C:216:GLU:C	2:C:218:VAL:H	2.25	0.40
2:C:418:LEU:HA	8:C:9500:HOH:O	2.22	0.40
2:C:682:TYR:CD1	3:D:635:PRO:HG2	2.56	0.40
2:C:1052:MET:HE2	3:D:623:VAL:HG21	2.02	0.40
3:D:12:LEU:CD2	3:D:13:ALA:N	2.82	0.40
3:D:118:LEU:O	3:D:119:SER:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:532:GLY:HA2	8:F:9594:HOH:O	2.22	0.40
3:D:539:ASP:OD2	5:F:316:SER:OG	2.39	0.40
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.50	0.40
3:D:623:VAL:CG1	3:D:626:SER:HB3	2.51	0.40
3:D:623:VAL:HG12	3:D:626:SER:HB3	2.03	0.40
3:D:633:VAL:HB	3:D:740:PHE:CE1	2.56	0.40
3:D:977:ALA:O	3:D:982:PHE:HB2	2.21	0.40
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.21	0.40
3:D:1147:ARG:HB2	3:D:1188:VAL:HG21	2.03	0.40
3:D:1343:ALA:HB1	8:D:9912:HOH:O	2.20	0.40
5:F:364:ARG:CB	5:F:365:GLU:OE1	2.69	0.40
1:K:206:THR:N	1:K:209:GLU:OE1	2.52	0.40
1:K:219:ARG:HH12	1:K:220:GLU:HA	1.85	0.40
1:L:11:PHE:HE2	1:L:13:VAL:HG22	1.86	0.40
2:M:200:LEU:HD22	2:M:300:ASP:HB3	2.03	0.40
2:M:453:THR:HA	8:M:9508:HOH:O	2.21	0.40
2:M:841:ASN:ND2	2:M:843:HIS:HD2	2.16	0.40
2:M:969:GLN:HG2	3:N:952:ASP:OD2	2.21	0.40
2:M:1015:LEU:CA	5:P:335:ASP:HB3	2.38	0.40
3:N:206:ARG:O	3:N:206:ARG:HD2	2.21	0.40
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.51	0.40
3:N:564:GLU:HA	8:N:9738:HOH:O	2.21	0.40
3:N:614:PHE:CZ	3:N:1439:SER:O	2.74	0.40
3:N:677:LEU:CD2	3:N:683:ILE:HD13	2.51	0.40
3:N:840:LYS:HD2	3:N:841:TYR:CZ	2.56	0.40
3:N:1148:VAL:HG12	3:N:1148:VAL:O	2.21	0.40
3:N:1233:GLY:HA2	3:N:1236:LEU:CD1	2.51	0.40
3:N:1465:ASN:OD1	3:N:1465:ASN:O	2.39	0.40
4:O:5:GLY:HA3	4:O:8:LYS:HD2	2.03	0.40
1:A:18:ARG:HH12	1:A:88:ARG:NE	2.19	0.40
1:A:22:GLU:OE1	2:C:934:PHE:CZ	2.74	0.40
1:A:70:GLY:HA2	1:A:133:GLU:OE2	2.21	0.40
1:B:23:PHE:HB2	1:B:197:LEU:HD23	2.03	0.40
2:C:129:ILE:HD12	8:C:2106:HOH:O	2.20	0.40
2:C:205:GLU:HG3	2:C:206:THR:N	2.35	0.40
2:C:328:LEU:HD13	2:C:433:THR:CG2	2.52	0.40
2:C:445:GLU:OE2	2:C:559:LEU:HD23	2.22	0.40
2:C:588:VAL:HG21	2:C:664:GLY:O	2.20	0.40
2:C:715:THR:CG2	2:C:717:LEU:HG	2.51	0.40
2:C:889:HIS:HE1	3:D:951:ILE:N	2.13	0.40
3:D:422:ALA:HB3	3:D:427:VAL:HG13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:525:ARG:N	3:D:526:PRO:HD3	2.33	0.40
3:D:601:ARG:HH22	3:D:611:GLN:N	2.19	0.40
3:D:728:LEU:HD22	3:D:745:MET:CE	2.51	0.40
3:D:759:ALA:HA	3:D:763:MET:HE2	2.04	0.40
3:D:879:ARG:NH1	3:D:904:VAL:C	2.74	0.40
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.35	0.40
3:D:1145:TYR:HA	3:D:1171:VAL:HG21	2.03	0.40
3:D:1168:MET:CE	3:D:1171:VAL:HB	2.46	0.40
4:E:12:MET:O	4:E:75:PHE:HZ	2.04	0.40
5:F:234:LYS:HE3	5:F:236:SER:HB2	2.03	0.40
1:K:106:PRO:HG2	1:K:134:GLU:OE1	2.21	0.40
1:K:222:LEU:HD13	1:K:222:LEU:HA	1.93	0.40
1:L:219:ARG:HD3	8:L:1203:HOH:O	2.21	0.40
2:M:24:GLU:N	8:M:9500:HOH:O	2.54	0.40
2:M:190:LYS:H	2:M:190:LYS:HG3	1.47	0.40
2:M:219:GLN:NE2	8:M:2204:HOH:O	2.55	0.40
2:M:474:VAL:O	2:M:474:VAL:HG22	2.20	0.40
2:M:585:GLU:N	8:M:9499:HOH:O	2.53	0.40
2:M:739:GLU:HA	8:M:2253:HOH:O	2.21	0.40
2:M:859:PRO:O	2:M:867:VAL:HG22	2.21	0.40
2:M:971:LYS:HZ2	3:N:950:GLY:HA3	1.86	0.40
3:N:27:GLU:C	3:N:28:LYS:HG3	2.42	0.40
3:N:213:VAL:HG13	8:N:9497:HOH:O	2.20	0.40
3:N:399:ARG:HB3	3:N:402:PRO:HG3	2.03	0.40
3:N:426:LYS:HZ1	5:P:138:SER:CA	2.34	0.40
3:N:442:ASN:HB3	8:N:9747:HOH:O	2.22	0.40
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.22	0.40
3:N:1371:VAL:O	3:N:1375:MET:HG3	2.21	0.40
3:N:1432:LYS:H	3:N:1432:LYS:HG3	1.41	0.40
4:O:27:ALA:HB2	4:O:61:GLU:HB3	2.03	0.40
4:O:58:PRO:HB2	8:O:1927:HOH:O	2.20	0.40
1:A:20:TYR:CD2	1:A:21:GLY:N	2.89	0.40
1:B:79:ILE:HG13	1:B:80:LEU:N	2.37	0.40
2:C:89:THR:HG22	2:C:91:GLN:HG2	2.03	0.40
2:C:516:ARG:CZ	3:D:1068:LEU:CB	2.99	0.40
2:C:679:PHE:CE1	2:C:859:PRO:HD3	2.55	0.40
2:C:720:GLU:OE1	2:C:758:ARG:NH1	2.54	0.40
2:C:1115:LEU:HD22	3:D:88:TYR:CD1	2.56	0.40
2:C:1119:ARG:HD3	2:C:1119:ARG:HA	1.72	0.40
3:D:90:MET:HE3	3:D:519:VAL:O	2.20	0.40
3:D:126:VAL:HG12	3:D:127:LEU:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:209:ARG:NH2	3:D:397:LYS:HD2	2.36	0.40
3:D:441:ARG:O	3:D:443:VAL:HG23	2.21	0.40
3:D:578:VAL:O	3:D:578:VAL:HG12	2.22	0.40
3:D:834:THR:HG22	3:D:838:ARG:CD	2.51	0.40
3:D:1042:ARG:O	3:D:1057:VAL:HB	2.20	0.40
3:D:1141:GLU:O	3:D:1145:TYR:HB2	2.22	0.40
3:D:1283:ILE:HG22	3:D:1284:GLU:H	1.86	0.40
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.21	0.40
3:D:1354:LYS:HA	8:D:2377:HOH:O	2.21	0.40
5:F:195:VAL:HG13	5:F:243:ILE:HD13	2.04	0.40
5:F:267:THR:HG23	5:F:299:TRP:HH2	1.85	0.40
1:K:34:VAL:CG1	8:L:4157:HOH:O	2.69	0.40
2:M:20:GLU:HB2	8:M:9519:HOH:O	2.20	0.40
2:M:64:LEU:HB2	2:M:359:MET:CE	2.50	0.40
2:M:456:ALA:O	2:M:459:ALA:HB3	2.21	0.40
2:M:577:PRO:HG3	2:M:993:PHE:CG	2.56	0.40
2:M:585:GLU:HB2	8:M:9499:HOH:O	2.21	0.40
2:M:800:VAL:HG13	2:M:825:VAL:HG13	2.02	0.40
2:M:805:ARG:HD2	8:M:9824:HOH:O	2.20	0.40
2:M:1031:ARG:NH1	3:N:620:GLY:O	2.49	0.40
2:M:1085:PHE:CE1	3:N:1468:LEU:HG	2.56	0.40
3:N:83:SER:N	8:N:9939:HOH:O	2.55	0.40
3:N:118:LEU:O	3:N:119:SER:C	2.60	0.40
3:N:131:LYS:HB3	3:N:456:MET:HE3	2.03	0.40
3:N:170:PRO:HD2	3:N:391:ALA:O	2.20	0.40
3:N:186:VAL:CG1	3:N:187:LYS:N	2.83	0.40
3:N:214:GLU:OE1	3:N:390:PRO:HG2	2.21	0.40
3:N:572:ARG:CA	8:N:2401:HOH:O	2.69	0.40
3:N:651:GLU:OE1	3:N:651:GLU:HA	2.21	0.40
3:N:850:LEU:HD21	3:N:881:LEU:HD13	2.04	0.40
3:N:919:PHE:HA	3:N:927:THR:OG1	2.20	0.40
3:N:1055:VAL:HA	3:N:1056:PRO:HD3	1.94	0.40
3:N:1103:HIS:ND1	3:N:1463:LYS:HE2	2.37	0.40
5:P:256:ARG:HD3	5:P:260:ILE:HG21	2.03	0.40
5:P:364:ARG:HE	5:P:364:ARG:HB3	1.64	0.40
1:A:180:GLN:NE2	2:C:934:PHE:CB	2.67	0.40
1:B:52:ALA:H	1:B:171:PHE:HE1	1.69	0.40
1:B:80:LEU:HD11	3:D:842:VAL:CG1	2.51	0.40
1:B:100:LEU:HB2	1:B:115:LEU:HD11	2.03	0.40
2:C:250:ARG:CZ	2:C:253:ALA:HB1	2.50	0.40
2:C:305:PRO:HG3	2:C:308:ARG:NH2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:744:ARG:HG3	2:C:744:ARG:O	2.21	0.40
2:C:769:PRO:HA	8:C:9563:HOH:O	2.22	0.40
2:C:878:SER:HA	3:D:1034:GLN:OE1	2.21	0.40
2:C:971:LYS:HB3	2:C:988:VAL:N	2.36	0.40
2:C:1003:ASP:O	2:C:1005:MET:N	2.54	0.40
3:D:133:ILE:CG2	3:D:454:ALA:HB1	2.43	0.40
3:D:447:VAL:HG13	8:D:9567:HOH:O	2.21	0.40
3:D:495:ARG:HB2	8:D:9869:HOH:O	2.20	0.40
3:D:699:VAL:HG22	3:D:756:GLN:NE2	2.37	0.40
3:D:708:LEU:CD1	3:D:1231:GLU:HG2	2.51	0.40
3:D:1042:ARG:NH1	3:D:1061:PHE:CZ	2.89	0.40
3:D:1209:LEU:HD21	4:E:16:LYS:HD2	2.03	0.40
3:D:1432:LYS:CD	3:D:1433:SER:H	2.32	0.40
3:D:1496:GLU:HG3	3:D:1500:LYS:HE3	2.03	0.40
5:F:304:VAL:O	5:F:308:LEU:HG	2.20	0.40
5:F:325:LYS:HE3	8:F:9533:HOH:O	2.20	0.40
5:F:419:ARG:O	5:F:421:PHE:CD1	2.75	0.40
1:K:219:ARG:NH1	1:K:220:GLU:CA	2.84	0.40
2:M:9:ILE:CG2	2:M:499:ALA:HB1	2.46	0.40
2:M:101:ILE:HD13	2:M:107:LEU:HB3	2.03	0.40
2:M:107:LEU:HD21	8:M:9696:HOH:O	2.22	0.40
2:M:592:LEU:HA	2:M:592:LEU:HD23	1.74	0.40
2:M:625:LEU:HD13	2:M:639:GLN:O	2.20	0.40
2:M:682:TYR:CE1	2:M:851:LYS:HD2	2.57	0.40
2:M:1032:PHE:CZ	2:M:1052:MET:HG2	2.56	0.40
2:M:1051:GLU:CD	3:N:752:SER:H	2.23	0.40
3:N:584:ASN:OD1	3:N:590:PRO:HG2	2.22	0.40
3:N:702:LEU:HD12	3:N:747:VAL:HB	2.04	0.40
3:N:838:ARG:HH11	3:N:838:ARG:CG	2.34	0.40
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.21	0.40
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.42	0.40
3:N:1041:LEU:HD12	3:N:1058:ARG:C	2.42	0.40
3:N:1336:LEU:HD12	3:N:1340:GLY:C	2.42	0.40
3:N:1438:ALA:HB2	3:N:1447:LEU:HD11	2.03	0.40
5:P:270:LYS:HB3	5:P:295:MET:SD	2.61	0.40
5:P:279:GLN:HB2	8:P:9682:HOH:O	2.21	0.40
5:P:393:THR:CG2	5:P:394:ARG:H	2.35	0.40
5:P:400:ILE:HD13	8:P:9478:HOH:O	2.22	0.40
1:A:76:VAL:HG13	8:A:9592:HOH:O	2.21	0.40
1:B:109:VAL:O	1:B:129:ILE:HB	2.22	0.40
1:B:227:ASN:HA	1:B:228:PRO:HD2	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:148:PHE:HB2	2:C:313:LEU:CD2	2.51	0.40
2:C:153:ALA:O	2:C:155:PRO:HD3	2.22	0.40
2:C:195:LEU:HG	2:C:238:LEU:CD1	2.50	0.40
2:C:257:VAL:C	2:C:259:GLY:N	2.69	0.40
2:C:504:GLU:OE1	2:C:507:ARG:HD2	2.22	0.40
2:C:677:MET:CB	2:C:987:ILE:HD13	2.51	0.40
2:C:897:LEU:HD11	2:C:920:GLN:HB3	2.03	0.40
2:C:1043:TYR:CE1	3:D:710:ARG:O	2.75	0.40
2:C:1073:GLY:N	8:C:9484:HOH:O	2.54	0.40
8:C:2291:HOH:O	3:D:859:ASP:CA	2.68	0.40
3:D:145:VAL:HG13	3:D:146:PRO:CD	2.52	0.40
3:D:559:ALA:O	3:D:561:GLY:N	2.55	0.40
3:D:645:PRO:HA	3:D:721:VAL:O	2.22	0.40
3:D:900:ILE:HB	8:D:9916:HOH:O	2.21	0.40
3:D:1034:GLN:O	3:D:1038:LEU:HD12	2.21	0.40
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.22	0.40
3:D:1432:LYS:NZ	3:D:1464:GLU:OE1	2.51	0.40
3:D:1458:GLU:N	8:D:9506:HOH:O	2.50	0.40
5:F:94:LEU:HB3	5:F:98:GLU:H	1.87	0.40
5:F:404:ALA:O	5:F:408:LEU:HB3	2.22	0.40
1:K:48:ILE:HA	1:K:49:PRO:HD3	1.75	0.40
1:K:74:ASP:O	1:K:78:ILE:HG13	2.22	0.40
1:K:189:ARG:HD2	1:K:191:ASP:OD1	2.22	0.40
2:M:129:ILE:HG13	2:M:386:PHE:HB3	2.03	0.40
2:M:280:LYS:O	2:M:309:TYR:CZ	2.75	0.40
2:M:346:VAL:O	2:M:350:ARG:HG3	2.22	0.40
2:M:393:GLN:NE2	2:M:409:ARG:HH11	2.18	0.40
2:M:559:LEU:HD11	2:M:563:ASN:ND2	2.37	0.40
2:M:768:THR:CB	2:M:771:GLU:HB3	2.48	0.40
2:M:1102:LEU:HD23	2:M:1106:ASP:HB3	2.04	0.40
3:N:168:THR:HB	3:N:393:ILE:HG13	2.03	0.40
3:N:776:GLU:HA	3:N:777:PRO:HD3	1.93	0.40
3:N:983:LEU:HA	3:N:987:GLU:OE2	2.22	0.40
3:N:1152:GLU:HG3	3:N:1153:VAL:N	2.36	0.40
5:P:82:ARG:HA	8:P:9599:HOH:O	2.21	0.40
5:P:365:GLU:OE1	5:P:365:GLU:N	2.54	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/315 (72%)	201 (88%)	21 (9%)	5 (2%)	6	12
1	B	227/315 (72%)	200 (88%)	24 (11%)	3 (1%)	12	24
1	K	227/315 (72%)	199 (88%)	24 (11%)	4 (2%)	8	16
1	L	227/315 (72%)	199 (88%)	25 (11%)	3 (1%)	12	24
2	C	1117/1119 (100%)	923 (83%)	139 (12%)	55 (5%)	2	2
2	M	1117/1119 (100%)	928 (83%)	135 (12%)	54 (5%)	2	2
3	D	1388/1524 (91%)	1119 (81%)	196 (14%)	73 (5%)	2	2
3	N	1388/1524 (91%)	1113 (80%)	200 (14%)	75 (5%)	2	2
4	E	93/99 (94%)	72 (77%)	13 (14%)	8 (9%)	1	0
4	O	93/99 (94%)	71 (76%)	15 (16%)	7 (8%)	1	1
5	F	341/423 (81%)	295 (86%)	31 (9%)	15 (4%)	2	3
5	P	341/423 (81%)	288 (84%)	34 (10%)	19 (6%)	2	2
All	All	6786/7590 (89%)	5608 (83%)	857 (13%)	321 (5%)	2	2

All (321) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	187	GLY
2	C	111	ASP
2	C	152	PRO
2	C	231	PRO
2	C	244	PRO
2	C	288	ARG
2	C	369	PRO
2	C	465	GLY
2	C	627	ARG
2	C	684	PHE
2	C	727	PRO
2	C	738	ASP

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Mol	Chain	Res	Type
2	C	1045	ALA
3	D	43	GLY
3	D	55	ASP
3	D	83	SER
3	D	208	PRO
3	D	238	PRO
3	D	241	ILE
3	D	246	PRO
3	D	370	ALA
3	D	373	PRO
3	D	417	PRO
3	D	440	VAL
3	D	487	ALA
3	D	1066	THR
3	D	1089	ALA
3	D	1125	PRO
3	D	1129	THR
3	D	1197	ARG
4	E	42	PRO
4	E	53	GLY
4	E	58	PRO
5	F	75	ILE
5	F	145	PRO
5	F	297	PRO
5	F	341	PRO
5	F	390	PHE
2	M	111	ASP
2	M	152	PRO
2	M	231	PRO
2	M	244	PRO
2	M	288	ARG
2	M	369	PRO
2	M	462	ASP
2	M	465	GLY
2	M	627	ARG
2	M	684	PHE
2	M	727	PRO
2	M	784	ASP
2	M	864	GLY
2	M	1045	ALA
3	N	43	GLY
3	N	208	PRO

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Mol	Chain	Res	Type
3	N	238	PRO
3	N	241	ILE
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	385	VAL
3	N	417	PRO
3	N	440	VAL
3	N	487	ALA
3	N	1066	THR
3	N	1089	ALA
3	N	1129	THR
3	N	1197	ARG
3	N	1213	ARG
4	O	42	PRO
4	O	53	GLY
4	O	58	PRO
5	P	145	PRO
5	P	167	PRO
5	P	297	PRO
5	P	341	PRO
5	P	390	PHE
5	P	416	ARG
1	A	59	GLU
1	B	59	GLU
2	C	129	ILE
2	C	217	LEU
2	C	290	LEU
2	C	316	GLY
2	C	368	THR
2	C	419	THR
2	C	434	HIS
2	C	462	ASP
2	C	529	VAL
2	C	548	PRO
2	C	626	ARG
2	C	735	ARG
2	C	740	GLU
2	C	864	GLY
2	C	1096	ALA
3	D	24	GLY
3	D	37	LEU

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Mol	Chain	Res	Type
3	D	78	VAL
3	D	140	ALA
3	D	234	GLU
3	D	381	ALA
3	D	385	VAL
3	D	424	GLY
3	D	509	PRO
3	D	560	GLN
3	D	803	GLY
3	D	1028	ALA
3	D	1213	ARG
3	D	1241	PHE
3	D	1248	GLY
3	D	1385	GLY
4	E	5	GLY
5	F	148	LYS
5	F	153	PRO
5	F	167	PRO
5	F	329	TYR
1	K	59	GLU
1	L	59	GLU
2	M	178	PRO
2	M	290	LEU
2	M	316	GLY
2	M	434	HIS
2	M	529	VAL
2	M	548	PRO
2	M	735	ARG
2	M	738	ASP
2	M	740	GLU
2	M	1096	ALA
3	N	24	GLY
3	N	37	LEU
3	N	140	ALA
3	N	234	GLU
3	N	368	VAL
3	N	379	ALA
3	N	381	ALA
3	N	415	VAL
3	N	424	GLY
3	N	451	ASP
3	N	618	LEU

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Mol	Chain	Res	Type
3	N	1028	ALA
3	N	1125	PRO
3	N	1241	PHE
3	N	1248	GLY
3	N	1385	GLY
3	N	1475	GLY
4	O	46	PRO
5	P	75	ILE
5	P	148	LYS
5	P	153	PRO
5	P	329	TYR
1	A	106	PRO
1	B	106	PRO
2	C	11	GLU
2	C	79	PRO
2	C	178	PRO
2	C	265	ARG
2	C	517	ARG
2	C	598	GLU
2	C	842	ARG
2	C	1005	MET
3	D	136	ASP
3	D	233	LYS
3	D	379	ALA
3	D	415	VAL
3	D	451	ASP
3	D	521	PRO
3	D	594	PRO
3	D	601	ARG
3	D	782	SER
3	D	807	ALA
3	D	822	ALA
3	D	844	ALA
4	E	41	GLU
4	E	46	PRO
5	F	97	GLU
5	F	326	ASP
1	K	106	PRO
1	K	187	GLY
1	L	106	PRO
2	M	11	GLU
2	M	79	PRO

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Mol	Chain	Res	Type
2	M	129	ILE
2	M	217	LEU
2	M	265	ARG
2	M	368	THR
2	M	419	THR
2	M	442	GLU
2	M	626	ARG
2	M	1004	LYS
2	M	1106	ASP
3	N	31	THR
3	N	98	PRO
3	N	233	LYS
3	N	509	PRO
3	N	521	PRO
3	N	539	ASP
3	N	560	GLN
3	N	594	PRO
3	N	807	ALA
3	N	822	ALA
3	N	844	ALA
3	N	1040	GLY
3	N	1208	ASP
3	N	1265	ALA
4	O	5	GLY
4	O	41	GLU
5	P	97	GLU
5	P	147	LEU
2	C	29	ALA
2	C	31	GLN
2	C	180	GLY
3	D	31	THR
3	D	40	GLU
3	D	88	TYR
3	D	96	ALA
3	D	368	VAL
3	D	387	LEU
3	D	416	ALA
3	D	486	ARG
3	D	539	ASP
3	D	808	THR
3	D	989	TYR
3	D	1265	ALA

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Mol	Chain	Res	Type
3	D	1475	GLY
4	E	82	GLU
5	F	288	TYR
1	K	29	GLU
2	M	29	ALA
2	M	180	GLY
2	M	457	ALA
2	M	517	ARG
2	M	518	LYS
2	M	874	LEU
3	N	67	ARG
3	N	78	VAL
3	N	82	LYS
3	N	96	ALA
3	N	119	SER
3	N	136	ASP
3	N	177	ALA
3	N	486	ARG
3	N	601	ARG
3	N	808	THR
3	N	989	TYR
3	N	1243	THR
5	P	326	ASP
5	P	364	ARG
1	A	93	SER
2	C	7	GLY
2	C	59	LYS
2	C	144	PRO
2	C	202	TYR
2	C	442	GLU
2	C	457	ALA
2	C	1004	LYS
3	D	67	ARG
3	D	98	PRO
3	D	177	ALA
3	D	522	PRO
3	D	1040	GLY
2	M	7	GLY
2	M	598	GLU
2	M	762	LYS
3	N	40	GLU
3	N	416	ALA

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Mol	Chain	Res	Type
3	N	522	PRO
3	N	617	ASN
4	O	82	GLU
5	P	286	PRO
5	P	288	TYR
2	C	876	VAL
3	D	137	PRO
3	D	170	PRO
3	D	705	ALA
3	D	1388	ARG
5	F	286	PRO
5	F	364	ARG
2	M	78	PHE
2	M	876	VAL
3	N	137	PRO
3	N	170	PRO
3	N	387	LEU
5	P	76	SER
5	P	324	GLU
5	P	393	THR
1	B	125	PRO
3	N	483	HIS
3	N	870	GLY
2	C	74	GLY
2	C	78	PHE
2	C	779	GLY
2	M	131	GLY
2	M	144	PRO
2	M	779	GLY
2	M	812	GLY
2	M	905	ILE
3	N	803	GLY
2	C	336	VAL
2	C	812	GLY
3	D	407	VAL
3	D	1157	GLY
3	D	1392	GLY
3	N	781	PRO
3	N	1157	GLY
3	D	483	HIS
3	D	781	PRO
3	D	1454	GLY

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Mol	Chain	Res	Type
5	F	397	ILE
1	L	125	PRO
2	M	186	VAL
2	M	877	PRO
3	N	146	PRO
3	N	407	VAL
3	N	1454	GLY
1	A	124	ASN
2	C	131	GLY
2	C	186	VAL
2	C	877	PRO
4	E	57	ASP
3	N	742	GLY
2	C	166	PRO
2	M	166	PRO

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	202/273 (74%)	165 (82%)	37 (18%)	1	2
1	B	202/273 (74%)	164 (81%)	38 (19%)	1	2
1	K	202/273 (74%)	160 (79%)	42 (21%)	1	2
1	L	202/273 (74%)	161 (80%)	41 (20%)	1	2
2	C	941/941 (100%)	730 (78%)	211 (22%)	1	1
2	M	941/941 (100%)	718 (76%)	223 (24%)	1	1
3	D	1123/1279 (88%)	865 (77%)	258 (23%)	1	1
3	N	1123/1279 (88%)	841 (75%)	282 (25%)	0	1
4	E	83/87 (95%)	68 (82%)	15 (18%)	1	2
4	O	83/87 (95%)	68 (82%)	15 (18%)	1	2
5	F	295/370 (80%)	232 (79%)	63 (21%)	1	1
5	P	295/370 (80%)	239 (81%)	56 (19%)	1	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	5692/6446 (88%)	4411 (78%)	1281 (22%)	1 1

All (1281) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	5	LYS
1	A	9	PRO
1	A	12	THR
1	A	15	THR
1	A	18	ARG
1	A	26	GLU
1	A	30	ARG
1	A	54	THR
1	A	62	LEU
1	A	73	GLU
1	A	74	ASP
1	A	80	LEU
1	A	88	ARG
1	A	89	PHE
1	A	92	PRO
1	A	93	SER
1	A	95	GLN
1	A	96	THR
1	A	99	LEU
1	A	112	ARG
1	A	121	GLU
1	A	126	ASP
1	A	127	LEU
1	A	133	GLU
1	A	143	ARG
1	A	146	ARG
1	A	160	ASP
1	A	167	VAL
1	A	170	VAL
1	A	185	ARG
1	A	197	LEU
1	A	198	ARG
1	A	206	THR
1	A	208	LEU
1	A	222	LEU
1	A	227	ASN

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Mol	Chain	Res	Type
1	B	1	MET
1	B	5	LYS
1	B	9	PRO
1	B	12	THR
1	B	26	GLU
1	B	30	ARG
1	B	54	THR
1	B	62	LEU
1	B	73	GLU
1	B	80	LEU
1	B	88	ARG
1	B	89	PHE
1	B	90	LEU
1	B	93	SER
1	B	95	GLN
1	B	96	THR
1	B	99	LEU
1	B	112	ARG
1	B	119	ASP
1	B	121	GLU
1	B	127	LEU
1	B	138	LEU
1	B	139	ASN
1	B	140	MET
1	B	145	ASP
1	B	155	LYS
1	B	159	LYS
1	B	160	ASP
1	B	162	ILE
1	B	176	ARG
1	B	186	LEU
1	B	188	GLN
1	B	197	LEU
1	B	206	THR
1	B	208	LEU
1	B	213	GLN
1	B	223	THR
1	B	229	GLN
2	C	5	ARG
2	C	6	PHE
2	C	8	ARG
2	C	10	ARG

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Mol	Chain	Res	Type
2	C	15	LEU
2	C	26	TYR
2	C	31	GLN
2	C	39	ARG
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	52	PHE
2	C	65	VAL
2	C	70	GLU
2	C	71	TYR
2	C	76	PRO
2	C	77	PRO
2	C	82	GLU
2	C	86	LYS
2	C	88	LEU
2	C	95	TYR
2	C	100	LEU
2	C	104	ASP
2	C	107	LEU
2	C	111	ASP
2	C	113	VAL
2	C	115	LEU
2	C	118	ILE
2	C	138	SER
2	C	140	ILE
2	C	144	PRO
2	C	149	THR
2	C	152	PRO
2	C	158	TYR
2	C	163	ILE
2	C	165	LEU
2	C	166	PRO
2	C	167	LYS
2	C	168	ARG
2	C	170	PRO
2	C	173	ASP
2	C	178	PRO
2	C	182	VAL
2	C	186	VAL
2	C	188	LYS
2	C	189	ARG

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Mol	Chain	Res	Type
2	C	190	LYS
2	C	198	ARG
2	C	203	ASP
2	C	207	LEU
2	C	209	ARG
2	C	211	LEU
2	C	217	LEU
2	C	218	VAL
2	C	222	MET
2	C	229	MET
2	C	230	ARG
2	C	235	LEU
2	C	238	LEU
2	C	239	PHE
2	C	243	ARG
2	C	251	ASP
2	C	254	VAL
2	C	256	TYR
2	C	257	VAL
2	C	263	ASP
2	C	266	ARG
2	C	279	GLU
2	C	281	LEU
2	C	288	ARG
2	C	289	THR
2	C	290	LEU
2	C	293	PHE
2	C	297	GLU
2	C	302	VAL
2	C	303	PHE
2	C	309	TYR
2	C	327	HIS
2	C	333	ILE
2	C	343	GLN
2	C	345	ARG
2	C	351	LEU
2	C	358	ARG
2	C	359	MET
2	C	367	LEU
2	C	368	THR
2	C	379	GLU
2	C	383	ARG

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Mol	Chain	Res	Type
2	C	388	ARG
2	C	398	THR
2	C	407	LYS
2	C	418	LEU
2	C	419	THR
2	C	420	ARG
2	C	422	ARG
2	C	425	PHE
2	C	426	ASP
2	C	427	VAL
2	C	432	ARG
2	C	441	VAL
2	C	442	GLU
2	C	449	ILE
2	C	452	ILE
2	C	455	LEU
2	C	460	ARG
2	C	469	THR
2	C	474	VAL
2	C	500	ASN
2	C	502	PRO
2	C	503	LEU
2	C	508	ILE
2	C	514	VAL
2	C	518	LYS
2	C	520	GLU
2	C	523	ILE
2	C	524	VAL
2	C	527	GLU
2	C	541	SER
2	C	543	ASN
2	C	545	ASN
2	C	549	PHE
2	C	551	GLU
2	C	564	MET
2	C	586	ARG
2	C	589	ARG
2	C	595	LEU
2	C	599	GLU
2	C	600	ASP
2	C	607	ASP
2	C	614	ARG

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Mol	Chain	Res	Type
2	C	617	ASP
2	C	620	LEU
2	C	630	ARG
2	C	633	GLN
2	C	637	LEU
2	C	640	ARG
2	C	644	VAL
2	C	648	ARG
2	C	650	ARG
2	C	654	LEU
2	C	657	ASP
2	C	659	PRO
2	C	672	VAL
2	C	673	LEU
2	C	677	MET
2	C	679	PHE
2	C	685	GLU
2	C	689	VAL
2	C	699	PHE
2	C	701	THR
2	C	708	TYR
2	C	722	ILE
2	C	726	ILE
2	C	727	PRO
2	C	729	LEU
2	C	737	LEU
2	C	744	ARG
2	C	766	GLU
2	C	775	ARG
2	C	785	VAL
2	C	799	ILE
2	C	807	ARG
2	C	821	GLU
2	C	831	ARG
2	C	839	LEU
2	C	841	ASN
2	C	853	LEU
2	C	862	PRO
2	C	863	ASP
2	C	870	ILE
2	C	871	LEU
2	C	881	ASN

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Mol	Chain	Res	Type
2	C	886	LEU
2	C	900	ARG
2	C	904	PRO
2	C	905	ILE
2	C	916	GLU
2	C	928	LYS
2	C	934	PHE
2	C	937	ASP
2	C	939	ARG
2	C	943	VAL
2	C	950	LEU
2	C	958	THR
2	C	963	LEU
2	C	975	TYR
2	C	984	GLU
2	C	986	PRO
2	C	988	VAL
2	C	999	HIS
2	C	1000	MET
2	C	1015	LEU
2	C	1016	ILE
2	C	1017	THR
2	C	1019	GLN
2	C	1035	MET
2	C	1036	GLU
2	C	1040	LEU
2	C	1052	MET
2	C	1057	SER
2	C	1079	PRO
2	C	1091	GLU
2	C	1092	LEU
2	C	1095	LEU
2	C	1099	VAL
2	C	1100	GLN
2	C	1104	GLU
2	C	1106	ASP
2	C	1115	LEU
2	C	1117	SER
2	C	1119	ARG
3	D	3	LYS
3	D	9	ARG
3	D	12	LEU

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Mol	Chain	Res	Type
3	D	14	SER
3	D	20	SER
3	D	25	GLU
3	D	27	GLU
3	D	32	ILE
3	D	35	ARG
3	D	39	PRO
3	D	47	GLU
3	D	53	ILE
3	D	55	ASP
3	D	56	TYR
3	D	60	CYS
3	D	65	ARG
3	D	68	PHE
3	D	72	VAL
3	D	74	GLU
3	D	75	ARG
3	D	85	VAL
3	D	86	ARG
3	D	87	ARG
3	D	102	ILE
3	D	103	TRP
3	D	107	ASP
3	D	112	ILE
3	D	115	LEU
3	D	117	ASP
3	D	118	LEU
3	D	122	GLU
3	D	130	SER
3	D	134	VAL
3	D	135	LEU
3	D	136	ASP
3	D	137	PRO
3	D	142	LEU
3	D	145	VAL
3	D	149	LYS
3	D	152	LEU
3	D	153	LEU
3	D	159	ARG
3	D	160	GLU
3	D	162	ARG
3	D	169	TYR

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Mol	Chain	Res	Type
3	D	178	LEU
3	D	184	GLU
3	D	185	VAL
3	D	199	LEU
3	D	206	ARG
3	D	208	PRO
3	D	209	ARG
3	D	211	VAL
3	D	216	VAL
3	D	389	GLU
3	D	393	ILE
3	D	394	LEU
3	D	400	VAL
3	D	410	SER
3	D	411	THR
3	D	413	ASP
3	D	419	ASP
3	D	421	LEU
3	D	426	LYS
3	D	428	LYS
3	D	431	VAL
3	D	432	TYR
3	D	444	VAL
3	D	445	ARG
3	D	447	VAL
3	D	450	TYR
3	D	453	ASP
3	D	456	MET
3	D	468	LEU
3	D	474	GLU
3	D	488	ARG
3	D	489	ARG
3	D	496	LEU
3	D	498	VAL
3	D	508	ARG
3	D	511	TRP
3	D	520	LEU
3	D	521	PRO
3	D	528	VAL
3	D	542	ASP
3	D	549	ASN
3	D	554	LEU

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Mol	Chain	Res	Type
3	D	565	ILE
3	D	569	ASN
3	D	571	LYS
3	D	581	LEU
3	D	584	ASN
3	D	586	ARG
3	D	591	VAL
3	D	594	PRO
3	D	597	ASP
3	D	601	ARG
3	D	602	SER
3	D	603	LEU
3	D	604	THR
3	D	605	ASP
3	D	611	GLN
3	D	619	LEU
3	D	635	PRO
3	D	640	HIS
3	D	641	GLN
3	D	644	LEU
3	D	651	GLU
3	D	652	LEU
3	D	659	LYS
3	D	661	MET
3	D	662	GLU
3	D	669	ASN
3	D	676	MET
3	D	677	LEU
3	D	681	ARG
3	D	683	ILE
3	D	695	ILE
3	D	709	HIS
3	D	711	LEU
3	D	725	SER
3	D	741	ASP
3	D	783	ARG
3	D	784	ASP
3	D	792	ILE
3	D	794	GLN
3	D	804	LEU
3	D	828	LYS
3	D	835	SER

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Mol	Chain	Res	Type
3	D	836	VAL
3	D	840	LYS
3	D	861	GLN
3	D	863	VAL
3	D	865	THR
3	D	871	LYS
3	D	876	SER
3	D	877	PRO
3	D	879	ARG
3	D	880	ILE
3	D	888	GLU
3	D	890	VAL
3	D	892	ASP
3	D	897	TRP
3	D	899	LEU
3	D	902	LEU
3	D	903	ASP
3	D	904	VAL
3	D	916	TYR
3	D	919	PHE
3	D	920	LEU
3	D	922	LEU
3	D	925	GLU
3	D	931	LEU
3	D	932	ASP
3	D	936	TYR
3	D	940	THR
3	D	951	ILE
3	D	969	ARG
3	D	972	LEU
3	D	988	ARG
3	D	990	ASP
3	D	994	GLN
3	D	1001	GLU
3	D	1021	TYR
3	D	1029	ARG
3	D	1037	GLN
3	D	1041	LEU
3	D	1042	ARG
3	D	1044	LEU
3	D	1045	MET
3	D	1058	ARG

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Mol	Chain	Res	Type
3	D	1062	ARG
3	D	1066	THR
3	D	1068	LEU
3	D	1083	ASP
3	D	1086	LEU
3	D	1087	ARG
3	D	1088	THR
3	D	1090	ASP
3	D	1096	ARG
3	D	1101	VAL
3	D	1109	GLU
3	D	1112	CYS
3	D	1116	ASN
3	D	1134	LEU
3	D	1135	ARG
3	D	1145	TYR
3	D	1147	ARG
3	D	1151	ARG
3	D	1161	GLU
3	D	1164	ARG
3	D	1166	LEU
3	D	1167	SER
3	D	1182	GLU
3	D	1183	ILE
3	D	1190	SER
3	D	1195	GLN
3	D	1196	THR
3	D	1197	ARG
3	D	1201	CYS
3	D	1207	TYR
3	D	1208	ASP
3	D	1211	MET
3	D	1213	ARG
3	D	1219	GLU
3	D	1228	SER
3	D	1232	PRO
3	D	1234	THR
3	D	1235	GLN
3	D	1238	MET
3	D	1240	THR
3	D	1243	THR
3	D	1251	ASP

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Mol	Chain	Res	Type
3	D	1252	ILE
3	D	1253	THR
3	D	1264	GLU
3	D	1274	ILE
3	D	1278	ASP
3	D	1285	GLU
3	D	1290	LEU
3	D	1304	LYS
3	D	1305	LEU
3	D	1306	PRO
3	D	1311	LEU
3	D	1312	LEU
3	D	1314	LYS
3	D	1315	ASP
3	D	1320	GLU
3	D	1331	ASP
3	D	1344	VAL
3	D	1346	ARG
3	D	1348	LEU
3	D	1372	VAL
3	D	1373	ARG
3	D	1382	THR
3	D	1383	ASP
3	D	1387	SER
3	D	1389	LEU
3	D	1396	GLU
3	D	1403	LEU
3	D	1410	GLU
3	D	1415	VAL
3	D	1422	MET
3	D	1424	VAL
3	D	1425	THR
3	D	1426	LYS
3	D	1427	SER
3	D	1429	LEU
3	D	1431	THR
3	D	1432	LYS
3	D	1441	GLN
3	D	1442	ASN
3	D	1452	ILE
3	D	1464	GLU
3	D	1478	SER

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Mol	Chain	Res	Type
3	D	1483	PHE
3	D	1485	GLN
3	D	1492	LEU
4	E	23	VAL
4	E	32	ARG
4	E	42	PRO
4	E	51	LEU
4	E	55	PHE
4	E	56	ASP
4	E	57	ASP
4	E	59	ASN
4	E	61	GLU
4	E	72	ARG
4	E	77	GLU
4	E	78	ASN
4	E	79	LEU
4	E	81	PRO
4	E	82	GLU
5	F	77	THR
5	F	84	TYR
5	F	86	HIS
5	F	122	LEU
5	F	124	PRO
5	F	128	ARG
5	F	136	LEU
5	F	142	ARG
5	F	145	PRO
5	F	148	LYS
5	F	149	GLU
5	F	152	ASP
5	F	156	VAL
5	F	174	LEU
5	F	181	GLU
5	F	187	LEU
5	F	192	LEU
5	F	197	SER
5	F	222	ARG
5	F	229	TYR
5	F	234	LYS
5	F	245	GLN
5	F	249	ARG
5	F	258	ILE

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Mol	Chain	Res	Type
5	F	259	ARG
5	F	280	GLN
5	F	282	LEU
5	F	287	THR
5	F	288	TYR
5	F	289	GLU
5	F	291	ILE
5	F	295	MET
5	F	316	SER
5	F	318	GLU
5	F	320	PRO
5	F	321	ILE
5	F	323	ASP
5	F	324	GLU
5	F	326	ASP
5	F	328	PHE
5	F	341	PRO
5	F	347	GLN
5	F	351	SER
5	F	353	GLU
5	F	359	SER
5	F	361	LEU
5	F	362	SER
5	F	363	GLU
5	F	370	LYS
5	F	375	LEU
5	F	395	GLU
5	F	398	ARG
5	F	399	GLN
5	F	405	LEU
5	F	408	LEU
5	F	409	LYS
5	F	410	TYR
5	F	414	ARG
5	F	416	ARG
5	F	418	LEU
5	F	419	ARG
5	F	422	LEU
5	F	423	ASP
1	K	1	MET
1	K	5	LYS
1	K	9	PRO

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Mol	Chain	Res	Type
1	K	12	THR
1	K	15	THR
1	K	26	GLU
1	K	30	ARG
1	K	54	THR
1	K	62	LEU
1	K	73	GLU
1	K	80	LEU
1	K	88	ARG
1	K	89	PHE
1	K	93	SER
1	K	95	GLN
1	K	96	THR
1	K	99	LEU
1	K	112	ARG
1	K	121	GLU
1	K	127	LEU
1	K	142	VAL
1	K	143	ARG
1	K	146	ARG
1	K	148	VAL
1	K	160	ASP
1	K	162	ILE
1	K	163	ASN
1	K	167	VAL
1	K	170	VAL
1	K	176	ARG
1	K	185	ARG
1	K	186	LEU
1	K	188	GLN
1	K	189	ARG
1	K	196	THR
1	K	205	VAL
1	K	206	THR
1	K	208	LEU
1	K	218	LEU
1	K	219	ARG
1	K	227	ASN
1	K	228	PRO
1	L	1	MET
1	L	2	LEU
1	L	5	LYS

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Mol	Chain	Res	Type
1	L	9	PRO
1	L	12	THR
1	L	16	GLN
1	L	26	GLU
1	L	30	ARG
1	L	54	THR
1	L	62	LEU
1	L	73	GLU
1	L	80	LEU
1	L	88	ARG
1	L	89	PHE
1	L	93	SER
1	L	95	GLN
1	L	96	THR
1	L	99	LEU
1	L	112	ARG
1	L	119	ASP
1	L	121	GLU
1	L	137	ARG
1	L	138	LEU
1	L	140	MET
1	L	145	ASP
1	L	148	VAL
1	L	154	GLU
1	L	156	HIS
1	L	160	ASP
1	L	161	ARG
1	L	162	ILE
1	L	176	ARG
1	L	186	LEU
1	L	190	THR
1	L	197	LEU
1	L	204	SER
1	L	206	THR
1	L	213	GLN
1	L	223	THR
1	L	228	PRO
1	L	229	GLN
2	M	6	PHE
2	M	9	ILE
2	M	19	THR
2	M	24	GLU

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Mol	Chain	Res	Type
2	M	26	TYR
2	M	27	ARG
2	M	31	GLN
2	M	41	ASN
2	M	48	PHE
2	M	49	ARG
2	M	52	PHE
2	M	54	ILE
2	M	57	GLU
2	M	58	ASP
2	M	65	VAL
2	M	70	GLU
2	M	73	LEU
2	M	77	PRO
2	M	82	GLU
2	M	85	GLU
2	M	86	LYS
2	M	87	ASP
2	M	88	LEU
2	M	95	TYR
2	M	100	LEU
2	M	104	ASP
2	M	107	LEU
2	M	113	VAL
2	M	114	PHE
2	M	115	LEU
2	M	117	HIS
2	M	118	ILE
2	M	129	ILE
2	M	134	ARG
2	M	138	SER
2	M	144	PRO
2	M	146	VAL
2	M	150	PRO
2	M	152	PRO
2	M	158	TYR
2	M	166	PRO
2	M	167	LYS
2	M	168	ARG
2	M	170	PRO
2	M	178	PRO
2	M	186	VAL

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Mol	Chain	Res	Type
2	M	189	ARG
2	M	190	LYS
2	M	191	PHE
2	M	193	LEU
2	M	196	LEU
2	M	198	ARG
2	M	203	ASP
2	M	204	GLN
2	M	207	LEU
2	M	209	ARG
2	M	211	LEU
2	M	214	TYR
2	M	218	VAL
2	M	221	LEU
2	M	223	ASP
2	M	226	VAL
2	M	230	ARG
2	M	240	THR
2	M	241	LEU
2	M	242	LEU
2	M	246	ASP
2	M	250	ARG
2	M	252	LYS
2	M	256	TYR
2	M	257	VAL
2	M	261	ILE
2	M	266	ARG
2	M	268	ASP
2	M	269	LEU
2	M	275	TYR
2	M	276	LYS
2	M	279	GLU
2	M	281	LEU
2	M	288	ARG
2	M	289	THR
2	M	290	LEU
2	M	293	PHE
2	M	297	GLU
2	M	301	GLU
2	M	302	VAL
2	M	303	PHE
2	M	309	TYR

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Mol	Chain	Res	Type
2	M	321	GLU
2	M	323	ASP
2	M	332	ARG
2	M	334	ARG
2	M	340	MET
2	M	341	THR
2	M	348	LEU
2	M	359	MET
2	M	367	LEU
2	M	379	GLU
2	M	383	ARG
2	M	384	GLU
2	M	388	ARG
2	M	400	PRO
2	M	402	SER
2	M	403	SER
2	M	415	PRO
2	M	419	THR
2	M	420	ARG
2	M	422	ARG
2	M	425	PHE
2	M	426	ASP
2	M	433	THR
2	M	439	CYS
2	M	443	THR
2	M	452	ILE
2	M	455	LEU
2	M	460	ARG
2	M	474	VAL
2	M	487	THR
2	M	491	GLU
2	M	500	ASN
2	M	503	LEU
2	M	520	GLU
2	M	523	ILE
2	M	527	GLU
2	M	535	SER
2	M	543	ASN
2	M	548	PRO
2	M	549	PHE
2	M	556	ASN
2	M	564	MET

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Mol	Chain	Res	Type
2	M	565	GLN
2	M	566	THR
2	M	579	VAL
2	M	589	ARG
2	M	600	ASP
2	M	609	ASN
2	M	614	ARG
2	M	630	ARG
2	M	632	ASN
2	M	633	GLN
2	M	637	LEU
2	M	640	ARG
2	M	645	VAL
2	M	648	ARG
2	M	650	ARG
2	M	654	LEU
2	M	662	GLU
2	M	672	VAL
2	M	679	PHE
2	M	680	ASP
2	M	689	VAL
2	M	690	ILE
2	M	697	ARG
2	M	698	ASP
2	M	699	PHE
2	M	701	THR
2	M	714	ASP
2	M	722	ILE
2	M	726	ILE
2	M	727	PRO
2	M	729	LEU
2	M	744	ARG
2	M	766	GLU
2	M	768	THR
2	M	770	GLU
2	M	774	LEU
2	M	790	LEU
2	M	791	ARG
2	M	799	ILE
2	M	807	ARG
2	M	813	VAL
2	M	831	ARG

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Mol	Chain	Res	Type
2	M	839	LEU
2	M	841	ASN
2	M	853	LEU
2	M	861	LEU
2	M	865	THR
2	M	869	VAL
2	M	871	LEU
2	M	878	SER
2	M	881	ASN
2	M	886	LEU
2	M	900	ARG
2	M	904	PRO
2	M	905	ILE
2	M	918	LEU
2	M	928	LYS
2	M	929	ARG
2	M	934	PHE
2	M	937	ASP
2	M	941	VAL
2	M	942	GLU
2	M	950	LEU
2	M	952	LEU
2	M	958	THR
2	M	959	PRO
2	M	962	GLN
2	M	971	LYS
2	M	983	ILE
2	M	988	VAL
2	M	995	MET
2	M	999	HIS
2	M	1000	MET
2	M	1005	MET
2	M	1009	SER
2	M	1014	SER
2	M	1015	LEU
2	M	1016	ILE
2	M	1017	THR
2	M	1018	GLN
2	M	1019	GLN
2	M	1021	LEU
2	M	1052	MET
2	M	1074	GLU

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Mol	Chain	Res	Type
2	M	1075	ASP
2	M	1097	LEU
2	M	1100	GLN
2	M	1104	GLU
2	M	1105	LYS
2	M	1106	ASP
2	M	1107	ASN
2	M	1115	LEU
2	M	1119	ARG
3	N	3	LYS
3	N	7	LYS
3	N	14	SER
3	N	15	PRO
3	N	27	GLU
3	N	35	ARG
3	N	39	PRO
3	N	47	GLU
3	N	53	ILE
3	N	67	ARG
3	N	68	PHE
3	N	69	GLU
3	N	71	LYS
3	N	75	ARG
3	N	76	CYS
3	N	79	GLU
3	N	83	SER
3	N	85	VAL
3	N	87	ARG
3	N	90	MET
3	N	94	GLU
3	N	98	PRO
3	N	101	HIS
3	N	102	ILE
3	N	107	ASP
3	N	112	ILE
3	N	115	LEU
3	N	118	LEU
3	N	119	SER
3	N	121	THR
3	N	122	GLU
3	N	123	LEU
3	N	126	VAL

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Mol	Chain	Res	Type
3	N	128	TYR
3	N	133	ILE
3	N	134	VAL
3	N	135	LEU
3	N	138	LYS
3	N	142	LEU
3	N	143	ASN
3	N	146	PRO
3	N	149	LYS
3	N	153	LEU
3	N	156	GLU
3	N	161	LEU
3	N	168	THR
3	N	169	TYR
3	N	171	LEU
3	N	178	LEU
3	N	185	VAL
3	N	186	VAL
3	N	199	LEU
3	N	200	ASP
3	N	206	ARG
3	N	208	PRO
3	N	213	VAL
3	N	389	GLU
3	N	394	LEU
3	N	400	VAL
3	N	402	PRO
3	N	406	ASP
3	N	408	GLU
3	N	409	VAL
3	N	411	THR
3	N	413	ASP
3	N	414	ARG
3	N	421	LEU
3	N	423	ASP
3	N	429	SER
3	N	432	TYR
3	N	441	ARG
3	N	444	VAL
3	N	445	ARG
3	N	452	ILE
3	N	456	MET

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Mol	Chain	Res	Type
3	N	462	GLN
3	N	468	LEU
3	N	473	LEU
3	N	498	VAL
3	N	502	PHE
3	N	503	LEU
3	N	504	ASP
3	N	505	SER
3	N	507	ASN
3	N	508	ARG
3	N	521	PRO
3	N	523	ASP
3	N	525	ARG
3	N	538	SER
3	N	539	ASP
3	N	543	LEU
3	N	547	LEU
3	N	549	ASN
3	N	554	LEU
3	N	560	GLN
3	N	564	GLU
3	N	569	ASN
3	N	587	ARG
3	N	591	VAL
3	N	594	PRO
3	N	601	ARG
3	N	606	ILE
3	N	619	LEU
3	N	624	ASP
3	N	625	TYR
3	N	629	SER
3	N	636	GLN
3	N	641	GLN
3	N	642	CYS
3	N	645	PRO
3	N	651	GLU
3	N	652	LEU
3	N	676	MET
3	N	681	ARG
3	N	683	ILE
3	N	695	ILE
3	N	702	LEU

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Mol	Chain	Res	Type
3	N	704	ARG
3	N	710	ARG
3	N	719	VAL
3	N	733	CYS
3	N	734	GLU
3	N	747	VAL
3	N	749	VAL
3	N	752	SER
3	N	754	PHE
3	N	761	ILE
3	N	769	LEU
3	N	783	ARG
3	N	784	ASP
3	N	794	GLN
3	N	796	ARG
3	N	804	LEU
3	N	817	GLU
3	N	827	ILE
3	N	828	LYS
3	N	833	GLU
3	N	835	SER
3	N	836	VAL
3	N	838	ARG
3	N	841	TYR
3	N	842	VAL
3	N	861	GLN
3	N	862	ASP
3	N	863	VAL
3	N	866	VAL
3	N	875	THR
3	N	877	PRO
3	N	879	ARG
3	N	897	TRP
3	N	899	LEU
3	N	901	GLN
3	N	903	ASP
3	N	904	VAL
3	N	911	LEU
3	N	922	LEU
3	N	926	LYS
3	N	932	ASP
3	N	934	LEU

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Mol	Chain	Res	Type
3	N	940	THR
3	N	944	THR
3	N	948	THR
3	N	951	ILE
3	N	952	ASP
3	N	964	LEU
3	N	972	LEU
3	N	988	ARG
3	N	997	THR
3	N	1001	GLU
3	N	1003	VAL
3	N	1007	VAL
3	N	1019	PRO
3	N	1041	LEU
3	N	1042	ARG
3	N	1044	LEU
3	N	1045	MET
3	N	1046	GLN
3	N	1049	SER
3	N	1055	VAL
3	N	1058	ARG
3	N	1062	ARG
3	N	1063	GLU
3	N	1066	THR
3	N	1068	LEU
3	N	1073	SER
3	N	1086	LEU
3	N	1088	THR
3	N	1096	ARG
3	N	1097	LYS
3	N	1101	VAL
3	N	1108	ARG
3	N	1109	GLU
3	N	1111	ASP
3	N	1114	THR
3	N	1116	ASN
3	N	1117	TYR
3	N	1118	ILE
3	N	1119	SER
3	N	1126	ASP
3	N	1130	ARG
3	N	1131	SER

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Mol	Chain	Res	Type
3	N	1134	LEU
3	N	1135	ARG
3	N	1147	ARG
3	N	1148	VAL
3	N	1152	GLU
3	N	1153	VAL
3	N	1156	LEU
3	N	1161	GLU
3	N	1164	ARG
3	N	1166	LEU
3	N	1168	MET
3	N	1169	ASP
3	N	1173	LEU
3	N	1176	LYS
3	N	1182	GLU
3	N	1188	VAL
3	N	1189	ARG
3	N	1190	SER
3	N	1191	PRO
3	N	1197	ARG
3	N	1200	VAL
3	N	1201	CYS
3	N	1204	CYS
3	N	1207	TYR
3	N	1208	ASP
3	N	1211	MET
3	N	1213	ARG
3	N	1231	GLU
3	N	1235	GLN
3	N	1238	MET
3	N	1243	THR
3	N	1251	ASP
3	N	1252	ILE
3	N	1253	THR
3	N	1256	LEU
3	N	1257	PRO
3	N	1262	LEU
3	N	1264	GLU
3	N	1274	ILE
3	N	1275	SER
3	N	1283	ILE
3	N	1284	GLU

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Mol	Chain	Res	Type
3	N	1285	GLU
3	N	1295	GLU
3	N	1297	GLU
3	N	1304	LYS
3	N	1306	PRO
3	N	1308	GLU
3	N	1310	ARG
3	N	1311	LEU
3	N	1312	LEU
3	N	1314	LYS
3	N	1323	GLN
3	N	1331	ASP
3	N	1332	PRO
3	N	1337	GLU
3	N	1346	ARG
3	N	1363	LEU
3	N	1382	THR
3	N	1383	ASP
3	N	1387	SER
3	N	1388	ARG
3	N	1389	LEU
3	N	1390	LEU
3	N	1396	GLU
3	N	1407	LEU
3	N	1408	ILE
3	N	1410	GLU
3	N	1419	PRO
3	N	1422	MET
3	N	1424	VAL
3	N	1429	LEU
3	N	1430	SER
3	N	1431	THR
3	N	1432	LYS
3	N	1442	ASN
3	N	1452	ILE
3	N	1464	GLU
3	N	1468	LEU
3	N	1484	THR
3	N	1485	GLN
4	O	20	THR
4	O	30	LEU
4	O	32	ARG

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Mol	Chain	Res	Type
4	O	42	PRO
4	O	43	GLU
4	O	44	GLU
4	O	51	LEU
4	O	56	ASP
4	O	59	ASN
4	O	61	GLU
4	O	66	LYS
4	O	69	LEU
4	O	77	GLU
4	O	79	LEU
4	O	81	PRO
5	P	77	THR
5	P	78	SER
5	P	80	PRO
5	P	82	ARG
5	P	84	TYR
5	P	86	HIS
5	P	88	ILE
5	P	91	VAL
5	P	117	SER
5	P	122	LEU
5	P	125	ASP
5	P	128	ARG
5	P	134	LYS
5	P	145	PRO
5	P	149	GLU
5	P	154	LYS
5	P	161	GLN
5	P	170	HIS
5	P	174	LEU
5	P	181	GLU
5	P	187	LEU
5	P	236	SER
5	P	253	ASP
5	P	263	HIS
5	P	274	THR
5	P	279	GLN
5	P	282	LEU
5	P	286	PRO
5	P	287	THR
5	P	288	TYR

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Mol	Chain	Res	Type
5	P	289	GLU
5	P	295	MET
5	P	303	ARG
5	P	308	LEU
5	P	324	GLU
5	P	326	ASP
5	P	327	SER
5	P	341	PRO
5	P	347	GLN
5	P	351	SER
5	P	361	LEU
5	P	364	ARG
5	P	370	LYS
5	P	375	LEU
5	P	394	ARG
5	P	398	ARG
5	P	405	LEU
5	P	406	ARG
5	P	408	LEU
5	P	409	LYS
5	P	410	TYR
5	P	411	HIS
5	P	414	ARG
5	P	418	LEU
5	P	420	ASP
5	P	422	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (165) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	81	ASN
1	A	95	GLN
1	A	124	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	227	ASN
1	B	81	ASN
1	B	95	GLN
1	B	124	ASN
1	B	128	HIS
1	B	156	HIS

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Mol	Chain	Res	Type
1	B	163	ASN
1	B	212	ASN
1	B	229	GLN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	139	GLN
2	C	343	GLN
2	C	390	GLN
2	C	406	HIS
2	C	498	GLN
2	C	538	GLN
2	C	545	ASN
2	C	565	GLN
2	C	609	ASN
2	C	647	GLN
2	C	671	ASN
2	C	704	HIS
2	C	829	GLN
2	C	834	GLN
2	C	841	ASN
2	C	843	HIS
2	C	881	ASN
2	C	889	HIS
2	C	969	GLN
2	C	1018	GLN
2	C	1019	GLN
2	C	1047	HIS
2	C	1100	GLN
3	D	101	HIS
3	D	166	GLN
3	D	462	GLN
3	D	549	ASN
3	D	560	GLN
3	D	569	ASN
3	D	575	GLN
3	D	669	ASN
3	D	680	GLN
3	D	703	ASN
3	D	717	GLN
3	D	727	GLN
3	D	756	GLN

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Mol	Chain	Res	Type
3	D	762	GLN
3	D	794	GLN
3	D	855	HIS
3	D	861	GLN
3	D	917	GLN
3	D	976	GLN
3	D	1025	GLN
3	D	1033	GLN
3	D	1103	HIS
3	D	1116	ASN
3	D	1124	GLN
3	D	1242	HIS
3	D	1323	GLN
3	D	1333	HIS
3	D	1353	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1393	GLN
3	D	1441	GLN
3	D	1465	ASN
3	D	1489	GLN
4	E	29	GLN
4	E	33	HIS
5	F	83	GLN
5	F	90	GLN
5	F	218	GLN
5	F	254	GLN
5	F	269	ASN
5	F	312	GLN
1	K	38	ASN
1	K	81	ASN
1	K	95	GLN
1	K	124	ASN
1	K	163	ASN
1	K	180	GLN
1	K	188	GLN
1	K	212	ASN
1	K	227	ASN
1	L	95	GLN
1	L	124	ASN
1	L	128	HIS
1	L	156	HIS

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Mol	Chain	Res	Type
1	L	163	ASN
1	L	212	ASN
1	L	221	HIS
2	M	31	GLN
2	M	41	ASN
2	M	45	GLN
2	M	117	HIS
2	M	327	HIS
2	M	343	GLN
2	M	431	HIS
2	M	552	HIS
2	M	575	GLN
2	M	609	ASN
2	M	670	GLN
2	M	671	ASN
2	M	834	GLN
2	M	841	ASN
2	M	843	HIS
2	M	881	ASN
2	M	889	HIS
2	M	899	GLN
2	M	920	GLN
2	M	1018	GLN
2	M	1019	GLN
2	M	1064	ASN
2	M	1100	GLN
3	N	101	HIS
3	N	507	ASN
3	N	541	ASN
3	N	549	ASN
3	N	551	ASN
3	N	636	GLN
3	N	640	HIS
3	N	680	GLN
3	N	703	ASN
3	N	709	HIS
3	N	714	GLN
3	N	727	GLN
3	N	756	GLN
3	N	768	ASN
3	N	794	GLN
3	N	824	ASN

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Mol	Chain	Res	Type
3	N	845	ASN
3	N	861	GLN
3	N	962	GLN
3	N	994	GLN
3	N	1046	GLN
3	N	1116	ASN
3	N	1124	GLN
3	N	1195	GLN
3	N	1202	GLN
3	N	1254	GLN
3	N	1323	GLN
3	N	1334	GLN
3	N	1353	GLN
3	N	1359	GLN
3	N	1374	GLN
3	N	1465	ASN
3	N	1489	GLN
4	O	28	GLN
4	O	29	GLN
4	O	59	ASN
4	O	86	GLN
5	P	161	GLN
5	P	214	GLN
5	P	217	ASN
5	P	218	GLN
5	P	279	GLN
5	P	337	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 489 ligands modelled in this entry, 489 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
3	D	1
3	N	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	380:GLU	C	381:ALA	N	1.17
1	N	380:GLU	C	381:ALA	N	1.17

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.