



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 07:13 PM UTC

PDB ID : 2CW0 / pdb_00002cw0
Title : Crystal structure of Thermus thermophilus RNA polymerase holoenzyme at 3.3 angstroms resolution
Authors : Tuske, S.; Sarafianos, S.G.; Wang, X.; Hudson, B.; Sineva, E.; Mukhopadhyay, J.; Birktoft, J.J.; Leroy, O.; Ismail, S.; Clark Jr., A.D.; Dharia, C.; Napoli, A.; Laptenko, O.; Lee, J.; Borukhov, S.; Ebright, R.H.; Arnold, E.
Deposited on : 2005-06-15
Resolution : 3.30 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	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

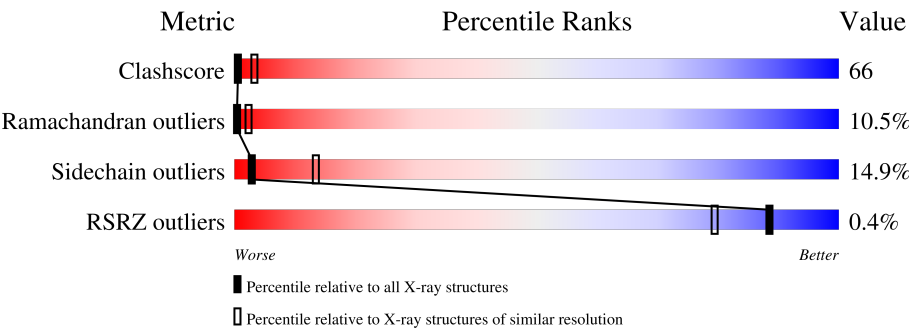
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 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	190562	1209 (3.32-3.28)
Ramachandran outliers	187476	1188 (3.32-3.28)
Sidechain outliers	187428	1187 (3.32-3.28)
RSRZ outliers	180081	1169 (3.32-3.28)

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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	315	17%42%13%27%
1	B	315	18%43%10%27%
1	K	315	21%38%11%27%
1	L	315	17%44%11%27%
2	C	1119	21%57%20%
2	M	1119	21%57%19%
3	D	1524	18%49%22%9%

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Mol	Chain	Length	Quality of chain
3	N	1524	%19%48%22%.9%
4	E	99	24%49%18%. .
4	O	99	25%49%16%5%. .
5	F	423	18%47%14%.18%
5	P	423	22%43%16%.18%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 53962 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 DNA-directed RNA polymerase alpha chain.

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

- Molecule 2 is a protein called DNA-directed RNA polymerase beta chain.

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

- Molecule 3 is a protein called DNA-directed RNA polymerase beta' chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1392	Total	C	N	O	S	0	0	0
			10975	6953	1941	2048	33			
3	N	1392	Total	C	N	O	S	0	0	0
			10975	6953	1941	2048	33			

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

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

- Molecule 5 is a protein called RNA polymerase sigma factor rpoD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	345	Total	C	N	O	S	0	0	0
			2793	1762	504	523	4			
5	P	345	Total	C	N	O	S	0	0	0
			2793	1762	504	523	4			

- Molecule 6 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	D	2	Total	Zn	0	0
			2	2		
6	N	2	Total	Zn	0	0
			2	2		

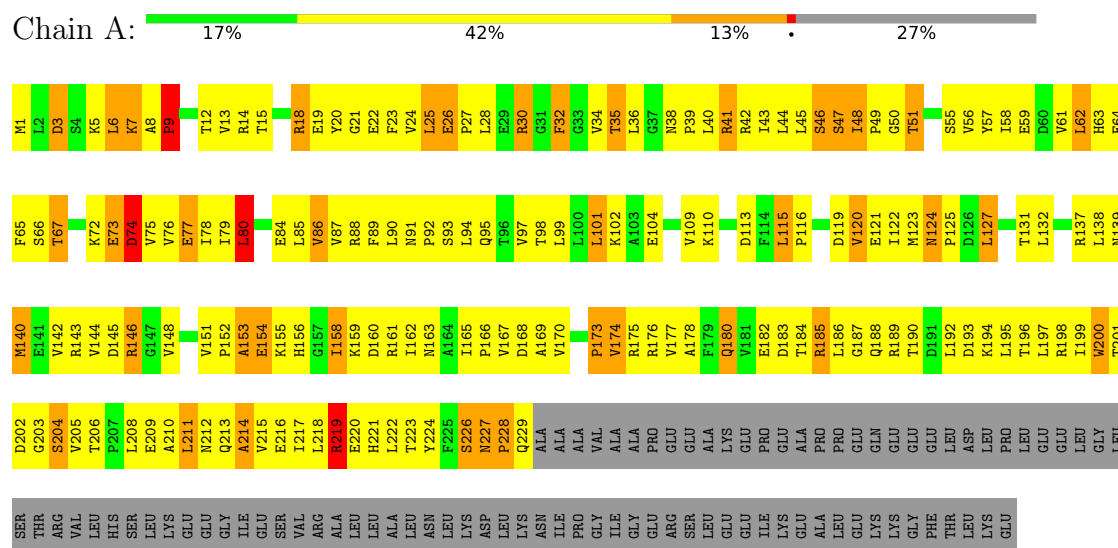
- Molecule 7 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	D	1	Total	Mg	0	0
			1	1		
7	N	1	Total	Mg	0	0
			1	1		

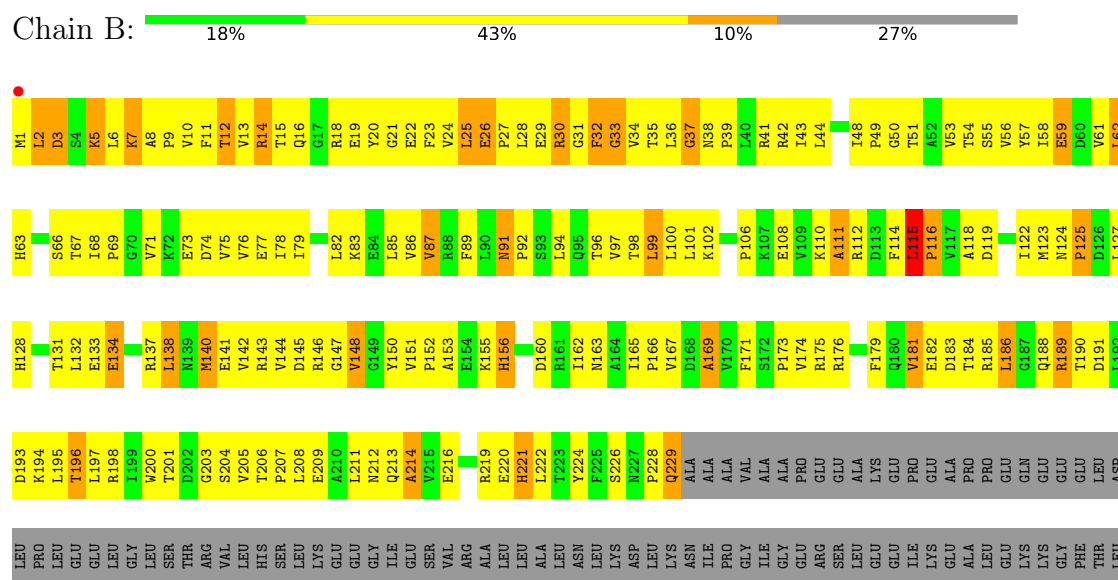
3 Residue-property plots

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

• Molecule 1: DNA-directed RNA polymerase alpha chain



• Molecule 1: DNA-directed RNA polymerase alpha chain

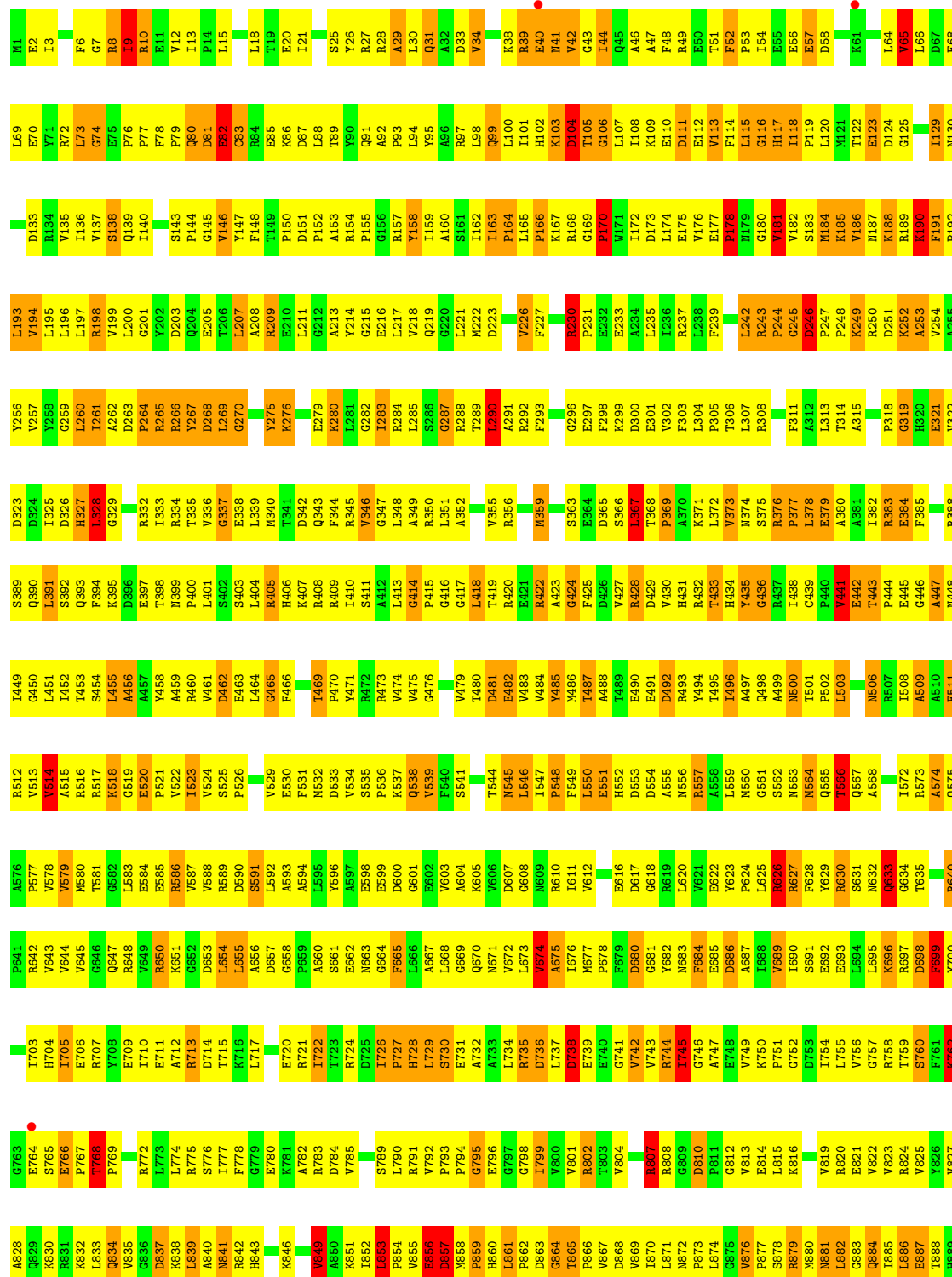


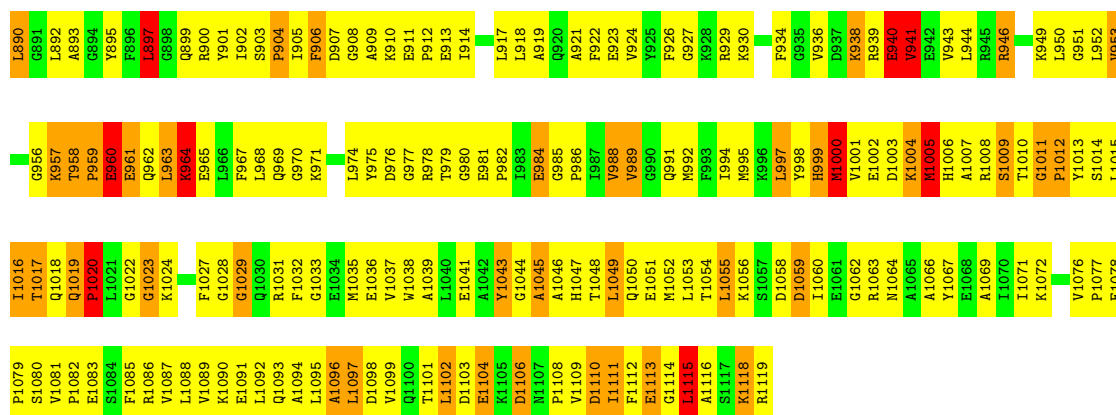
S1014	L944	M880	V819	G758	V689	R626	G565	P502	C439	L372	L310	P244	M184	D124	G62
L1015	R945	M881	R620	R758	I690	R627	T586	L503	G442	V373	F311	G245	K185	G125	G63
T1016	E821	L882	E821	T759	S691	F628	A567	E504	E443	N374	A312	D246	V186	F126	L64
Q1018	R946	G883	V822	T760	E692	F629	A568	E505	T443	S375	L313	P247	N187	F127	V65
Q1019	R947	Q884	R823	F761	E693	S631	V569	N506	P444	T314	T314	P248	K188	I128	L66
P1020	R948	I885	R824	K762	L694	R630	P570	B507	E445	R377	A315	K249	K189	I129	D67
L1021	L950	L886	V825	G763	L695	N632	L571	T508	O446	L378	C316	R250	K190	F68	P68
G1022	G951	E887	V826	E764	K696	Q633	L572	A509	A447	E379	V317	D251	F191	G131	L89
G1023	L952	T888	G634	S765	R697	Q634	R573	A510	N448	G318	P318	K252	P192	A132	E70
K1024	K957	R889	Q829	E766	R698	T635	A574	E511	I449	R383	G319	A253	L193	D133	Y71
E1027	E960	K891	K830	F767	D699	A636	Q575	R512	Q450	E384	H320	V194	L195	R134	R72
G1028	G963	L892	R832	T768	Y700	L637	A576	V513	L451	F385	G322	V256	L196	V135	L73
Q1029	R964	A833	L833	E770	S702	Q639	V578	A515	T453	S387	D323	T286	L197	G74	G74
R1031	F996	G897	V835	E771	I703	R640	V579	R516	S454	R388	D324	G259	R198	E75	E75
F1032	L897	G898	G836	L773	R707	R643	G582	R518	S454	R388	D325	T287	R199	P77	P77
G1033	Q899	Q899	D837	L774	Y708	V644	L583	E520	A459	Q390	L328	D263	L200	F78	F78
E1034	R968	R900	L839	R775	E709	V645	E584	P521	G462	Q393	G329	T264	L201	P79	P79
M1035	Q969	Y901	A940	I777	I710	Q646	E585	V522	D462	F394	N330	R265	Q204	E82	E82
E1036	G970	I902	R842	E780	A712	Q647	R586	V523	E463	K395	R331	R266	Q205	C83	C83
V1037	K971	S903	R842	A712	A712	R648	V587	V524	L464	D396	R332	T206	T206	R84	R84
V1038	V972	P904	H843	K781	R713	V649	V588	S525	G465	E397	I333	D268	A208	E85	E85
E1041	L974	I905	G844	A782	G844	R650	R589	E526	F466	T398	R334	G273	A209	K86	K86
A1042	Y975	D907	N845	R783	L717	K651	D590	V529	L467	K399	T385	R274	R209	D87	D87
Y1043	D976	G947	R946	D784	G718	G652	S591	V529	R468	G403	T385	E210	E210	L88	L88
G1044	G977	L785	G947	D785	G718	D653	L592	E530	T469	S403	G337	Y275	R209	L89	L89
A1045	R978	K910	V848	K786	R721	L654	A593	F531	P470	L404	E338	G212	R210	D151	D151
A1046	R979	E911	V849	D787	I722	L655	A594	N532	Y471	R405	E339	A213	Q215	P152	P152
H1047	P912	P912	R850	T788	I723	L655	L595	D533	R472	H406	N340	E278	Y214	R154	Q91
T1048	E913	E913	K951	S789	R724	G658	Y596	V534	R473	R406	T341	G215	G215	P155	L94
L1049	E981	I914	L852	L790	D725	P659	A597	S535	V474	R406	D342	E216	E216	G156	Y95
Q1050	P982	K915	L853	K786	I726	A660	E598	P536	V475	R409	Q343	L217	L217	G156	A96
E1051	E984	E916	P854	D792	P727	S661	E599	K537	G476	L410	F344	G282	V218	R157	R97
M1052	L917	V855	V855	P793	H728	E662	D600	Q538	G477	S411	R345	R284	Q219	Y158	L98
L1053	G985	L918	E856	K794	L729	N663	G601	V539	V478	G414	Y346	L285	G220	I159	Q99
L1054	P986	A919	D857	G795	S730	G664	E602	F540	V479	G414	G347	S286	L221	S161	L100
L1055	I987	Q920	K658	E796	E731	P665	V603	S541	T480	P415	L348	G287	K222	I162	I101
K1056	P989	P922	P859	G797	E731	L666	A604	V542	D481	G416	A349	R288	D223	I163	H102
S1057	G990	E923	H860	G798	L734	A667	K605	N543	E482	G417	R350	T289	E224	P164	K103
D1058	Q991	V824	L361	I799	D736	L668	V606	T544	V483	L418	L351	L290	S225	L165	D104
D1059	M992	N925	D863	V800	D736	G669	D607	N545	V484	T419	A352	A291	V226	P166	T105
I1060	F993	F926	Q864	R802	L737	Q670	G608	L546	Y485	R420	R353	R292	F227	K167	G106
E1061	G927	G927	T865	R803	D738	K671	N609	I547	N486	G424	G354	F293	A228	R168	L107
G1062	K996	K928	P866	T803	E739	V672	R610	P543	T487	G424	V355	G296	R230	G169	I108
L1063	L997	R929	V867	V804	E740	L673	F612	F549	A488	F425	R356	E297	P170	P170	K109
G1066	H999	E932	V869	R807	V743	L676	R614	E551	E490	D426	R358	F298	E232	Y171	E110
Y1067	D1003	G933	L871	R808	R744	K677	V615	H562	E491	R428	K359	E233	E233	D173	D111
A1068	K1004	G935	L871	G809	I745	P678	E616	A555	R493	D429	D300	A234	L174	L174	E112
E1069	M1005	V936	N872	D810	E748	F679	D617	N566	Y494	V430	L235	E301	E175	E175	V113
I1070	I1005	R937	P873	P811	V749	D680	G681	T495	R432	H431	T236	T236	E176	E176	F114
I1071	S1009	D937	L874	G812	V749	G681	V621	I496	T433	T433	R366	L304	L238	E177	G116
E1074	T1010	K938	V813	V813	K750	V682	V621	A497	H434	H434	L367	P305	F239	P178	H117
G1075	G1011	R339	V876	E814	P751	N683	E622	Q498	A497	Y435	T388	T240	T240	P179	P119
V1076	P1012	E940	P877	L815	G752	N684	P623	A499	G436	G436	P369	L307	L241	G150	G150
P1077	Y1013	V943	S878	G818	L755	E685	P624	N500	T501	I438	K371	R243	R243	V182	T122
			R879											S183	E123



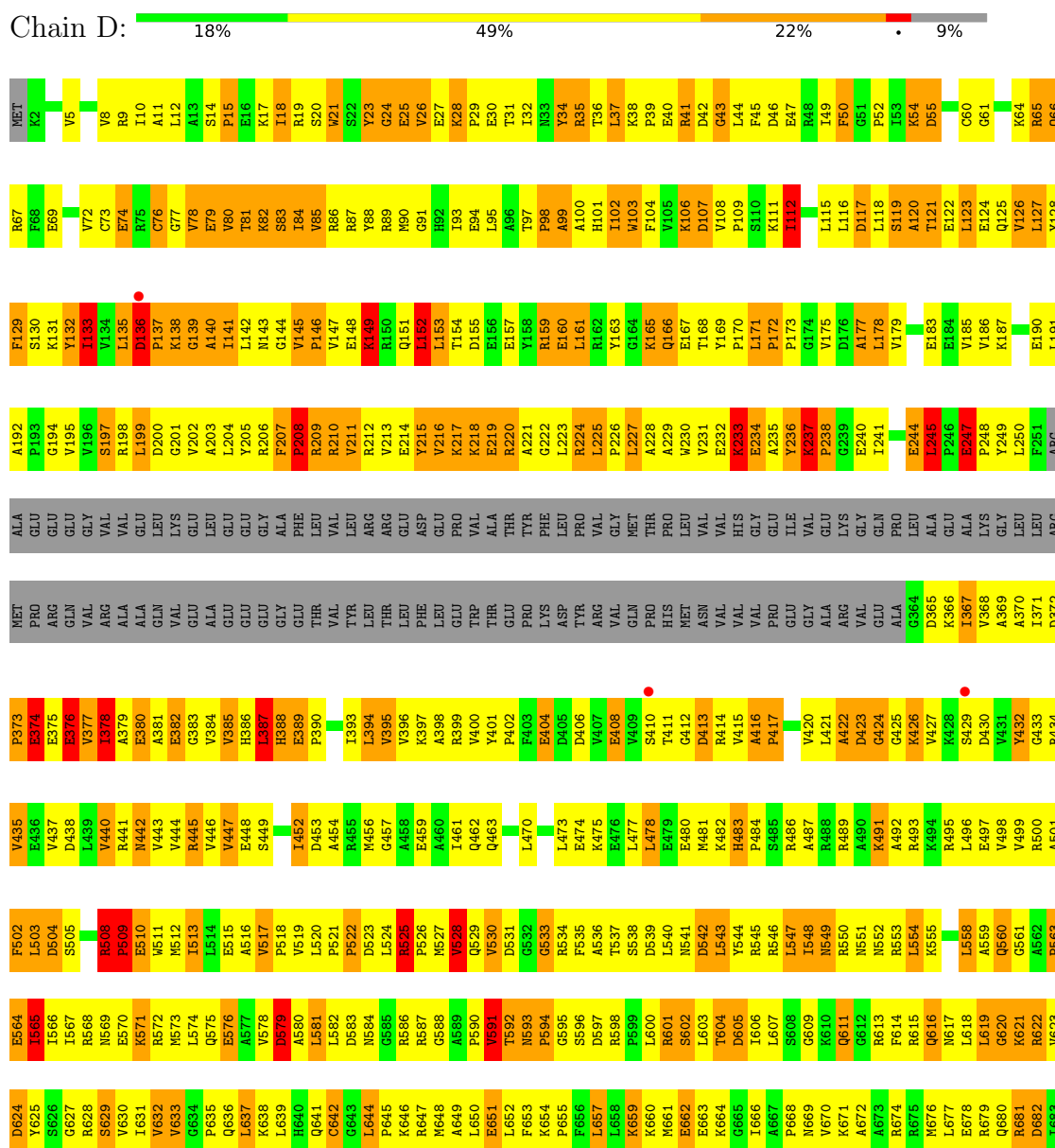
• Molecule 2: DNA-directed RNA polymerase beta chain

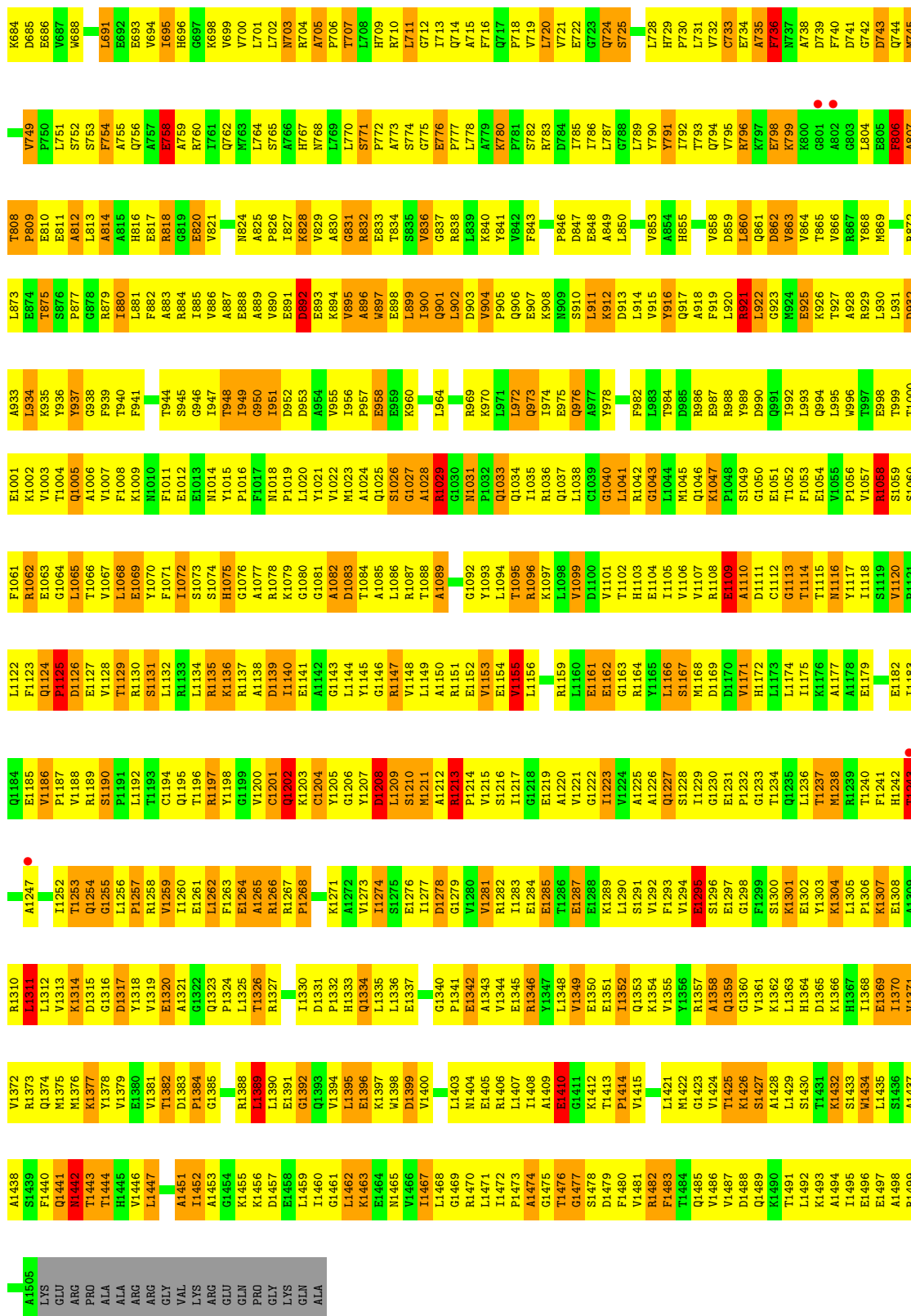
Chain M: 21% 57% 19%



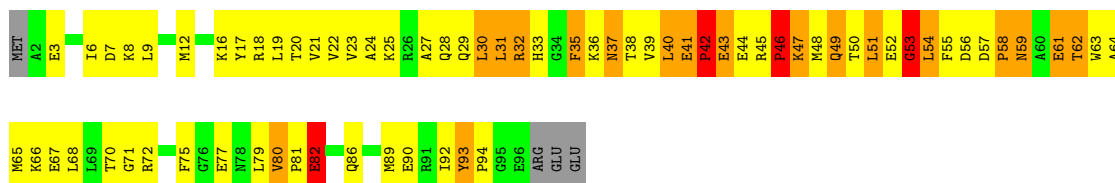


• Molecule 3: DNA-directed RNA polymerase beta' chain

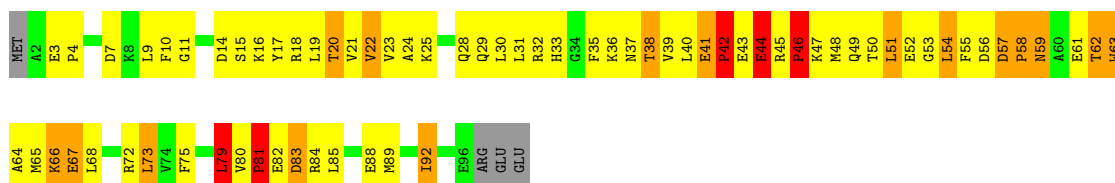




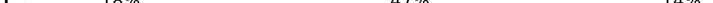
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L934	L873	A812	V747	I683	V623	Q660	R500	E436	E374	PRO	GLU	L191	Y128	Q66	K2
K936		L813		K684	D524	G561	A501	V437	E376	ARG	GLU	A192	F129	Q67	K3
Y937	S876	A814	P750	D685	G625	A562	F502	D438	E375	GLN	GLU	P193	S130	F68	E4
G938	B877	A815	L751	G686	S626	P563	L503	L439	V377	VAL	GLY	G194	K131	E69	V5
F939	G878	H816	S752	G687	G627	E564	D504	V440	I378	ARG	VAL	V195	Y132	G70	R6
T940	R879	E817	S753		R628	I565	S505	R441	A379	ALA	VAL	V196	I183	K71	K7
	I880	R818	F754	A890	S629	I566	G506	I442	E380	ALA	GLU	S197	V134	V72	V8
F941	L881	G819	A755	L691	V630	I567	N507	V443	A381	ALA	GLN	R198	L135	C73	R9
S942	F882	E820	Q756	E692	I631	R568	R508	V444	E382	VAL	LYS	L199	D136	E74	R9
T943	F883	E821	Q757	E693	V632	N569	P509	R445	G383	GLU	GLU	D200	P137	R75	A11
S944	R884	A822	E758	V694	V633	E570	E510	V446	V384	ALA	LEU	G201	K138	C76	L12
G945	L885	L823	A759	G671	G634	G671	V511	V447	V385	GLU	GLU	V202	G139	G77	A13
	R886	N824	R760	I695	P635	R572	N512	E448	H386	GLU	GLU	A203	A140	V78	S14
I947	A887	A825	I761	K698	Q636	M573	L513	S449	L387	GLU	GLY	L204	I141	E79	P15
T948	E888	P826	Q762	V699	L637	L574	L514	V450	H388	GLY	ALA	L205	V80	E80	E16
I949	A889	I927	M763	V700	K638	Q575	E515	V451	E389	GLU	PHE	R206	N143	T81	K17
G950	F950	K828	L764	L701	L439	E576	A516	I452	P390	THR	LEU	F207	G144	K82	I18
I951	E891	V829	S765	L702	H640	A577	V517	D453	A391	VAL	VAL	P208	V145	S83	R19
D952	B892	A830	A766	N703	Q641	V578	P518	A454		TYR	LEU	R209	P146	I84	
	E893	R704	H767	R704	C642	D579	P519	R455	L394	LEU	ARG	R210	V147	R85	S22
A954	K894	R832	N768	A705	G643		L520	R456	V395	THR	ARG	V211	E148	E86	Y23
V955	V895	E833	L769	P706	L644	R587	P521		V396	LEU	GLU	R212	K149	R87	G24
I956	A896	T834	L770	L707	P645	D583	P522	I461	K397	PHE	ASP	V213	R150	Y88	
P957	B897	S835	S771	L708	K646	N584	D523	Q462	A398	LEU	GLU	E214	Q151	M90	E27
E958	E898	V836	P772	H709	R647	G585	L524	Q463	R399	GLU	PRO	Y215	L152	R89	K28
	L899	G837		R710	M648	R586	R525	L464	V400	TRP	VAL	V216	L153	G91	P29
K960	R900	R838	E776	L711	K649	N593	P521	E472	V407	VAL	GLY	R225	R162	T97	E30
G961	Q901	L839	P777	G712	L850	G588	N527	A473	V409	GLN	MET	L226	K165	A100	L37
Q962	L902	L778	L713	G713	E651	G589	V528	L473	S410	PRO	THR	P226	Q166	H101	K38
Y963	D903	Y841	Q714	Q714	L652	P590	Q529	E467	F403	PRO	TYR	E219	E167	I102	P39
L964	I904	V842	K780	A715	F653	V591	V530	D468	E404	LYS	PHE	R220	Y158	L95	I32
E965	P905	F843	F781	F716	K654	T592	D531	L470	D406	ASP	LEU	A221		A96	Y34
E966	Q906	N844	S782	Q717	P655	N593	G532	E471	V407	ARG	PRO	G222	L161	T97	R35
A967	E907	N845	R783	P718	F656	P594	G533	A472	E408	VAL	VAL	R224	R162	P98	T36
D968	K908	P846	D784	L719	L657	G595	R534	L473	V409	GLN	MET	L225	K165	A100	L37
R969	N909	D847	I785	L720	L658	S596	F535	E474	S410	PRO	THR	P226	Q166	H101	K38
K970	S910	E848	I786	V721	K659	D597	A536	K475	T411	HIS	PRO	L227	E167	I102	E40
L971	L911	A849	L787	E722	K660	R598	T537	E476	G412	MET	LEU	A228	T168	W103	R41
L972	K912	L850			M661	P599	S538	L477	D413	ASN	VAL	A229	Y169	F104	D42
	D913	L851			E662	L600	D539	L478	R414	VAL	VAL	W230	P170	K106	G43
E975	L914	A852	Y790	I726	E663	R601	L540	M481	V415	VAL	HIS	V231	L171	K107	L44
Q976	V915	V853	Y791	Q727	K664	S602	N541	K482	A416	VAL	VAL	E232	P172	D107	F45
A977	Y916	L854	T793	H729	G665	L603	D542	K482	P417	VAL	GLY	E233	P173	V108	D46
Y978	Q917	H855	Q794	P730	I666	T604	L543	H483	G416	PRO	ILE	E234	G174	P109	E47
E979	A918	G856	V795	L731	A667	D605	T537	P484		GLY	VAL		V175		R48
	F919	I857	R796	V732	P668	L606	R546	S485	L421	ALA	GLU	K237	D176	I112	I49
	L920	V858	K797	C733	N669	I606	R546	A487	D423	ARG	LYS	P238	L178	L115	F50
L983	R921	D859	E798	E734	V670	G609	T548	R488	G426	VAL	GLN	G239	V179	L116	G51
D985	L922	L860	K671	A735	K671	K610	T548	R489	G426	ALA	PRO	I241	K180	D117	P52
R986	G923	Q861	A672	F736	A672	Q611	R550	A490	V427	LEU	LEU		D181	L118	I53
E987	M924	R862	R674	N737	R674	G612	N551	K491	V427	ALA	ALA	L245	E183	S119	K54
R988	K926	V863	V864	A738	R675	N552	N552	A492	K428	GLU	GLU	P246	E183	A120	D55
Y989	G926	V864	V864	D739	R675	N552	N552	A492	K428	ALA	ALA	E247	E184	T121	
D990	T927	T865	Q616	F740	M676	Q616	R553	R493	S429	LYS	LYS	P248	E185	E122	C58
Q991	A928	F806	N617	D741	L677	N617	L554	K494	D430	GLY	GLY	E249	V186	L123	A59
I992	R929	A807	F806	G742	E578	L613	R555	R495	V431	THR	THR	Y249	V186	L123	
	L930	R869	T808	G743	R679	L619	K556	L496	V432	LEU	LEU	L250	K187	E124	K62
	L931	G870	P809	Q744	Q680	G620	L557	E497	G433	LEU	LEU	F251	G188	Q125	Y63
L995	W996	K871	E810	M745	R681	K621	L558	V498	R434	ARG	ARG		Q189	V126	K64

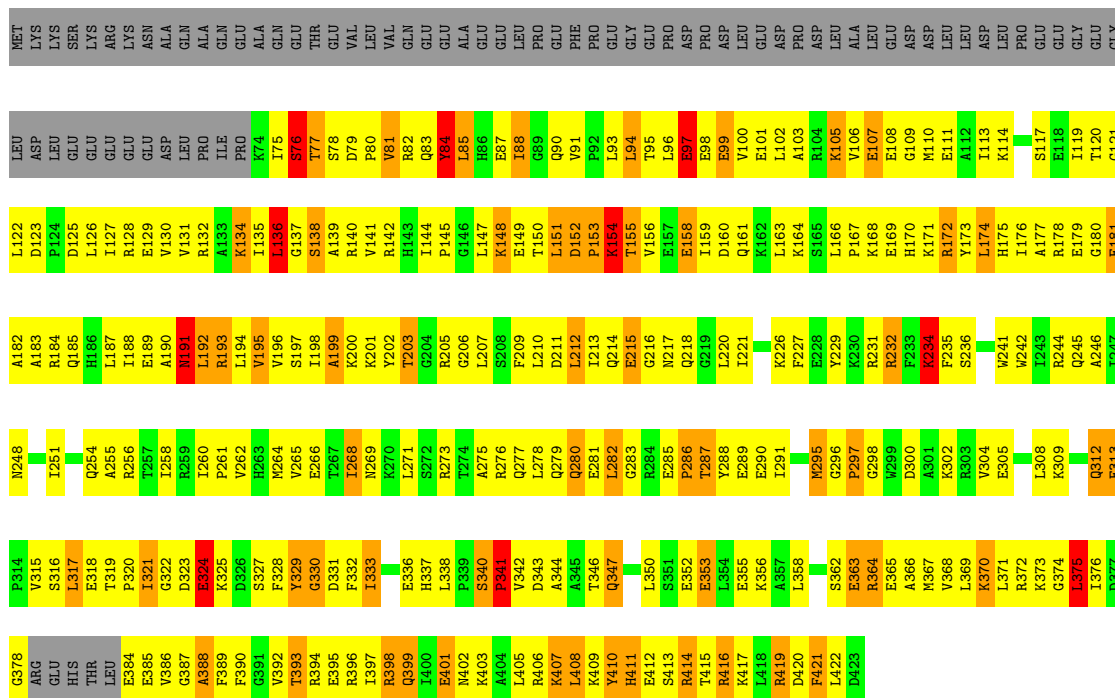


- Molecule 4: RNA polymerase omega chain

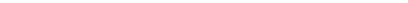


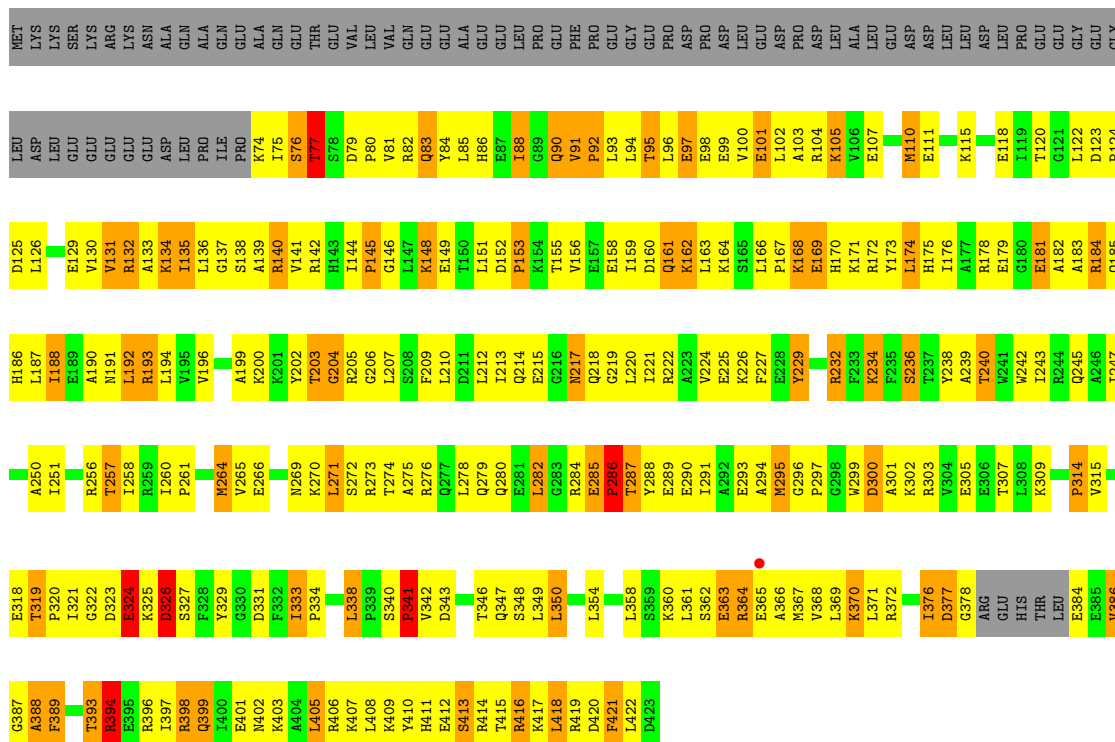
- Molecule 5: RNA polymerase sigma factor rpoD

Chain F:  18% 47% 14% • 18%



- Molecule 5: RNA polymerase sigma factor rpoD

Chain P:  22% 43% 16% 1% 18%



4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	236.15Å 236.15Å 249.88Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	30.00 – 3.30 30.00 – 3.30	Depositor EDS
% Data completeness (in resolution range)	84.1 (30.00-3.30) 47.3 (30.00-3.30)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.10 (at 3.31Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.282 , 0.320 0.277 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	97.4	Xtriage
Anisotropy	0.295	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.23 , 33.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.26$	Xtriage
Estimated twinning fraction	0.499 for -h,-k,l 0.499 for h,-h-k,-l 0.064 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	53962	wwPDB-VP
Average B, all atoms (Å ²)	73.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.25% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.58	0/1838	1.19	20/2498 (0.8%)
1	B	0.42	0/1838	1.02	8/2498 (0.3%)
1	K	0.61	0/1838	1.17	18/2498 (0.7%)
1	L	0.49	0/1838	1.08	18/2498 (0.7%)
2	C	0.57	0/8997	1.27	130/12164 (1.1%)
2	M	0.58	0/8997	1.25	123/12164 (1.0%)
3	D	0.60	2/11165 (0.0%)	1.29	156/15088 (1.0%)
3	N	0.58	0/11165	1.29	170/15088 (1.1%)
4	E	0.52	0/783	1.31	14/1054 (1.3%)
4	O	0.51	0/783	1.35	13/1054 (1.2%)
5	F	0.49	1/2836 (0.0%)	1.16	39/3812 (1.0%)
5	P	0.51	0/2836	1.17	35/3812 (0.9%)
All	All	0.57	3/54914 (0.0%)	1.25	744/74228 (1.0%)

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	1
3	N	0	3
5	F	0	1
All	All	0	5

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	1186	VAL	CA-CB	-5.92	1.50	1.54
5	F	313	GLU	C-N	5.66	1.41	1.33
3	D	1255	GLY	C-N	-5.35	1.26	1.33

All (744) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1209	LEU	N-CA-C	-18.83	83.67	108.34
2	C	728	HIS	N-CA-C	18.52	131.58	111.03
3	N	207	PHE	CA-C-N	16.12	139.98	119.84
3	N	207	PHE	C-N-CA	16.12	139.98	119.84
2	M	728	HIS	N-CA-C	14.48	131.69	113.88
3	N	198	ARG	N-CA-C	14.22	129.94	112.87
3	N	1109	GLU	N-CA-C	13.37	123.87	108.49
3	D	207	PHE	CA-C-N	13.25	136.41	119.84
3	D	207	PHE	C-N-CA	13.25	136.41	119.84
4	O	49	GLN	N-CA-C	13.01	129.51	111.56
3	D	1127	GLU	N-CA-C	-12.97	96.12	112.72
3	N	978	TYR	N-CA-C	-12.75	97.65	113.97
3	N	1209	LEU	N-CA-C	-12.68	91.39	111.04
2	M	319	GLY	N-CA-C	-12.65	95.05	111.37
2	C	177	GLU	CA-C-N	12.63	135.63	119.84
2	C	177	GLU	C-N-CA	12.63	135.63	119.84
4	E	49	GLN	N-CA-C	12.54	128.87	111.56
3	D	448	GLU	N-CA-C	12.53	128.72	111.55
3	D	379	ALA	N-CA-C	-12.13	98.06	111.28
3	D	508	ARG	CA-C-N	11.84	134.64	119.84
3	D	508	ARG	C-N-CA	11.84	134.64	119.84
3	D	528	VAL	N-CA-C	11.06	122.10	110.05
3	N	508	ARG	CA-C-N	10.98	133.57	119.84
3	N	508	ARG	C-N-CA	10.98	133.57	119.84
2	M	729	LEU	N-CA-C	10.93	126.77	112.12
3	N	379	ALA	N-CA-C	-10.85	99.46	111.07
3	D	171	LEU	CA-C-N	10.66	131.36	120.38
3	D	171	LEU	C-N-CA	10.66	131.36	120.38
3	N	751	LEU	N-CA-C	10.63	122.62	111.14
2	C	318	PRO	N-CA-C	-10.57	99.72	113.57
3	D	1126	ASP	N-CA-C	10.50	126.47	107.99
3	N	644	LEU	CA-C-N	10.35	132.78	119.84
3	N	644	LEU	C-N-CA	10.35	132.78	119.84
3	N	448	GLU	N-CA-C	10.28	123.46	110.61
2	C	938	LYS	N-CA-C	-10.27	100.70	113.02
3	N	1055	VAL	N-CA-C	10.24	117.44	108.63
4	E	82	GLU	N-CA-C	10.20	123.35	111.11
3	N	1288	GLU	N-CA-C	10.00	124.55	111.75
2	C	243	ARG	CA-C-N	9.92	132.24	119.84
2	C	243	ARG	C-N-CA	9.92	132.24	119.84
3	N	690	ALA	N-CA-C	-9.90	100.45	111.14
2	M	442	GLU	N-CA-C	9.88	125.18	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	879	ARG	N-CA-C	-9.84	97.98	110.19
2	M	243	ARG	CA-C-N	9.77	132.05	119.84
2	M	243	ARG	C-N-CA	9.77	132.05	119.84
3	N	1399	ASP	N-CA-C	-9.76	101.38	113.38
3	N	1175	ILE	N-CA-C	-9.72	104.03	111.90
3	D	198	ARG	N-CA-C	9.62	124.32	112.59
5	P	192	LEU	N-CA-C	-9.61	102.06	113.88
4	O	50	THR	N-CA-C	-9.58	100.16	112.23
2	M	509	ALA	N-CA-C	9.55	122.68	111.02
3	N	144	GLY	N-CA-C	-9.47	101.60	114.95
2	C	969	GLN	N-CA-C	-9.41	101.80	113.28
2	M	810	ASP	CA-C-N	9.40	129.02	119.24
2	M	810	ASP	C-N-CA	9.40	129.02	119.24
2	C	1046	ALA	N-CA-C	-9.40	100.68	112.72
5	P	411	HIS	N-CA-C	-9.38	101.83	113.28
2	M	177	GLU	CA-C-N	9.35	131.52	119.84
2	M	177	GLU	C-N-CA	9.35	131.52	119.84
1	A	153	ALA	N-CA-C	-9.26	101.16	111.07
2	M	318	PRO	N-CA-C	-9.25	102.30	113.86
1	A	115	LEU	CA-C-N	9.18	131.31	119.84
1	A	115	LEU	C-N-CA	9.18	131.31	119.84
2	C	514	VAL	N-CA-C	9.17	119.85	106.55
2	C	730	SER	N-CA-C	9.16	122.60	108.96
2	M	998	TYR	N-CA-C	9.15	123.59	109.96
4	O	54	LEU	N-CA-C	-9.10	102.19	113.20
2	M	243	ARG	N-CA-C	8.97	125.71	108.85
2	M	262	ALA	N-CA-C	8.94	124.57	112.68
2	M	1078	GLU	CA-C-N	8.94	131.01	119.84
2	M	1078	GLU	C-N-CA	8.94	131.01	119.84
2	M	890	LEU	N-CA-C	-8.89	101.54	111.14
5	F	411	HIS	N-CA-C	-8.79	102.97	114.31
3	N	880	ILE	N-CA-C	-8.77	104.75	112.12
2	C	57	GLU	N-CA-C	8.76	122.04	108.12
3	N	142	LEU	N-CA-C	8.71	122.03	110.53
2	C	591	SER	N-CA-C	-8.65	97.21	110.10
3	N	738	ALA	N-CA-C	8.60	121.50	107.32
3	N	1126	ASP	N-CA-C	8.59	129.09	110.80
3	D	172	PRO	N-CA-C	8.58	121.17	110.70
2	M	1009	SER	N-CA-C	-8.50	101.83	112.72
3	D	1476	THR	N-CA-C	-8.48	103.06	113.15
2	C	729	LEU	N-CA-C	8.47	126.67	114.39
2	C	810	ASP	CA-C-N	8.45	130.40	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	810	ASP	C-N-CA	8.45	130.40	119.84
2	C	414	GLY	CA-C-N	8.44	130.39	119.84
2	C	414	GLY	C-N-CA	8.44	130.39	119.84
3	N	1259	VAL	N-CA-C	-8.41	102.06	113.00
3	N	143	ASN	N-CA-C	-8.40	100.62	113.89
3	N	1317	ASP	N-CA-C	8.38	120.68	108.86
3	D	820	GLU	N-CA-C	-8.38	102.50	112.89
3	D	380	GLU	N-CA-C	-8.35	94.62	108.32
3	D	619	LEU	N-CA-C	-8.35	103.09	113.28
5	F	375	LEU	N-CA-C	8.32	123.94	111.04
3	D	525	ARG	CA-C-N	8.29	130.20	119.84
3	D	525	ARG	C-N-CA	8.29	130.20	119.84
2	M	726	ILE	CA-C-N	8.26	130.17	119.84
2	M	726	ILE	C-N-CA	8.26	130.17	119.84
3	N	489	ARG	N-CA-C	-8.26	102.64	114.12
2	C	547	ILE	N-CA-C	8.25	116.43	107.60
3	N	210	ARG	N-CA-C	8.19	121.09	110.53
4	E	51	LEU	N-CA-C	-8.15	93.43	110.80
2	C	58	ASP	N-CA-C	8.13	122.38	107.99
5	F	203	THR	N-CA-C	8.11	119.81	110.97
3	N	799	LYS	N-CA-C	8.06	121.58	109.25
3	D	1059	SER	N-CA-C	7.99	120.84	110.53
3	D	112	ILE	N-CA-C	-7.98	104.73	113.43
2	C	726	ILE	CA-C-N	7.93	129.75	119.84
2	C	726	ILE	C-N-CA	7.93	129.75	119.84
3	D	725	SER	N-CA-C	7.91	121.74	108.13
3	D	143	ASN	N-CA-C	-7.89	101.85	112.26
2	C	865	THR	N-CA-C	7.87	121.07	109.50
3	D	1285	GLU	N-CA-C	7.86	122.96	111.87
2	M	938	LYS	N-CA-C	-7.86	102.72	111.28
3	N	597	ASP	N-CA-C	-7.85	103.02	112.59
2	C	261	ILE	N-CA-C	7.83	125.63	109.34
2	C	857	ASP	N-CA-C	7.81	122.47	111.30
2	M	1118	LYS	N-CA-C	7.81	122.02	110.46
3	N	1458	GLU	N-CA-C	-7.81	98.11	109.59
2	M	436	GLY	N-CA-C	-7.81	103.76	115.32
2	C	883	GLY	N-CA-C	-7.76	102.84	112.77
3	N	208	PRO	N-CA-C	7.76	128.46	112.47
3	D	99	ALA	N-CA-C	-7.76	97.53	109.24
2	C	262	ALA	N-CA-C	7.75	123.24	112.93
3	N	1395	LEU	N-CA-C	7.72	120.44	111.02
2	M	674	VAL	N-CA-C	7.72	119.96	108.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	886	LEU	N-CA-C	-7.70	102.82	111.14
1	A	206	THR	CA-C-N	7.70	129.46	119.84
1	A	206	THR	C-N-CA	7.70	129.46	119.84
2	C	655	LEU	N-CA-C	-7.69	104.03	113.41
3	D	144	GLY	N-CA-C	-7.67	104.81	113.79
5	F	88	ILE	N-CA-C	-7.63	102.90	110.30
3	D	811	GLU	N-CA-C	-7.62	104.40	112.93
4	O	83	ASP	N-CA-C	7.62	119.22	111.07
4	O	37	ASN	N-CA-C	-7.60	104.47	113.21
3	D	209	ARG	N-CA-C	7.60	126.98	110.80
3	N	166	GLN	N-CA-C	7.57	120.88	108.99
3	N	619	LEU	N-CA-C	-7.57	103.88	113.72
4	E	62	THR	N-CA-C	-7.54	104.08	113.28
4	E	50	THR	N-CA-C	-7.53	103.89	113.23
2	M	903	SER	CA-C-N	7.52	127.53	119.78
2	M	903	SER	C-N-CA	7.52	127.53	119.78
2	M	34	VAL	CA-C-N	7.49	125.13	119.66
2	M	34	VAL	C-N-CA	7.49	125.13	119.66
3	N	378	ILE	N-CA-C	7.47	124.88	109.34
2	M	287	GLY	N-CA-C	-7.47	102.17	112.18
3	N	199	LEU	N-CA-C	7.47	126.71	110.80
1	K	146	ARG	N-CA-C	-7.47	98.40	110.20
3	N	64	LYS	N-CA-C	7.46	119.22	110.41
2	C	398	THR	N-CA-C	-7.45	102.84	112.23
3	D	374	GLU	N-CA-C	7.45	118.35	108.07
3	N	649	ALA	N-CA-C	-7.45	103.99	113.23
3	N	1190	SER	N-CA-C	7.44	114.83	108.13
2	C	1099	VAL	N-CA-C	7.43	117.32	106.55
3	D	406	ASP	N-CA-C	7.42	121.18	112.72
3	N	1383	ASP	CA-C-N	7.41	129.11	119.84
3	N	1383	ASP	C-N-CA	7.41	129.11	119.84
1	A	74	ASP	N-CA-C	-7.40	98.66	110.14
2	M	506	ASN	N-CA-C	-7.40	104.22	113.55
1	A	169	ALA	N-CA-C	7.37	120.31	107.49
2	C	498	GLN	N-CA-C	7.36	119.47	110.41
5	P	193	ARG	N-CA-C	-7.34	103.28	111.28
2	M	441	VAL	N-CA-C	7.34	119.36	111.58
3	D	1479	ASP	N-CA-C	-7.32	103.29	111.71
5	F	148	LYS	N-CA-C	7.32	122.67	112.72
2	M	1058	ASP	N-CA-C	7.32	122.48	112.90
3	D	691	LEU	N-CA-C	-7.31	103.31	111.28
3	N	380	GLU	N-CA-C	-7.31	98.51	108.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1317	ASP	N-CA-C	7.31	121.57	109.95
3	N	821	VAL	N-CA-C	-7.28	103.54	113.00
3	D	1210	SER	N-CA-C	-7.28	102.53	111.33
1	B	7	LYS	N-CA-C	-7.27	104.79	112.93
3	D	1383	ASP	CA-C-N	7.26	128.92	119.84
3	D	1383	ASP	C-N-CA	7.26	128.92	119.84
3	D	1171	VAL	N-CA-C	-7.25	102.73	113.39
3	N	811	GLU	N-CA-C	-7.24	104.31	113.72
1	A	48	ILE	CA-C-N	7.24	127.81	119.99
1	A	48	ILE	C-N-CA	7.24	127.81	119.99
1	A	15	THR	N-CA-C	7.24	121.50	108.69
3	D	1124	GLN	CA-C-N	7.23	128.88	119.84
3	D	1124	GLN	C-N-CA	7.23	128.88	119.84
3	N	1099	VAL	N-CA-C	-7.21	103.94	111.58
2	C	417	GLY	N-CA-C	-7.19	104.44	115.66
3	D	387	LEU	N-CA-C	7.18	119.09	108.60
2	C	939	ARG	N-CA-C	-7.18	104.50	113.55
2	M	189	ARG	N-CA-C	7.17	121.16	109.76
5	F	81	VAL	N-CA-C	-7.16	103.99	111.58
2	C	214	TYR	N-CA-C	-7.11	104.48	113.02
2	C	818	GLY	N-CA-C	-7.11	104.69	114.64
2	C	509	ALA	N-CA-C	7.10	122.13	112.68
3	D	201	GLY	N-CA-C	-7.10	99.25	111.47
2	M	82	GLU	N-CA-C	-7.10	104.42	113.23
2	C	213	ALA	N-CA-C	-7.09	103.63	111.36
1	B	33	GLY	N-CA-C	-7.08	104.29	112.50
2	C	268	ASP	N-CA-C	7.07	119.22	109.18
3	D	1033	GLN	N-CA-C	-7.07	102.77	111.40
3	N	1178	ALA	N-CA-C	-7.07	104.63	113.18
4	O	63	TRP	N-CA-C	-7.07	103.53	112.93
3	D	208	PRO	N-CA-C	7.04	126.98	112.47
2	C	263	ASP	N-CA-C	7.03	121.72	112.17
3	D	197	SER	N-CA-C	-7.02	100.80	110.35
3	D	579	ASP	N-CA-C	-7.02	102.18	111.24
3	D	982	PHE	N-CA-C	7.02	118.58	111.07
3	D	152	LEU	N-CA-C	7.00	120.00	110.55
2	C	34	VAL	CA-C-N	7.00	127.59	120.38
2	C	34	VAL	C-N-CA	7.00	127.59	120.38
3	D	1110	ALA	N-CA-C	-6.99	98.02	107.88
2	M	865	THR	CA-C-N	6.97	128.55	119.84
2	M	865	THR	C-N-CA	6.97	128.55	119.84
3	N	247	GLU	N-CA-C	6.97	125.21	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	P	287	THR	N-CA-C	-6.95	101.17	110.55
2	M	655	LEU	N-CA-C	-6.94	103.80	112.90
2	C	76	PRO	CA-C-N	6.94	126.45	119.24
2	C	76	PRO	C-N-CA	6.94	126.45	119.24
3	N	1358	ALA	N-CA-C	-6.93	104.64	113.23
3	N	99	ALA	N-CA-C	-6.92	97.83	108.76
3	N	215	TYR	N-CA-C	6.92	118.61	108.86
3	D	23	TYR	N-CA-C	-6.91	98.13	109.40
3	N	81	THR	N-CA-C	-6.90	97.65	108.14
3	N	209	ARG	N-CA-C	6.90	125.50	110.80
2	C	178	PRO	N-CA-C	6.90	126.68	112.47
3	D	758	GLU	N-CA-C	-6.89	103.28	113.61
5	F	136	LEU	N-CA-C	6.88	120.16	111.69
2	M	897	LEU	N-CA-C	-6.88	104.36	112.89
3	D	1069	GLU	N-CA-C	-6.88	103.78	111.28
2	C	260	LEU	N-CA-C	6.88	119.83	108.48
1	K	222	LEU	N-CA-C	-6.86	104.90	113.20
3	N	440	VAL	N-CA-C	-6.86	102.47	111.05
3	D	605	ASP	N-CA-C	-6.86	103.73	111.07
2	M	261	ILE	N-CA-C	6.86	123.61	109.34
3	D	245	LEU	N-CA-C	-6.85	100.94	109.64
3	D	932	ASP	N-CA-C	-6.84	103.94	112.90
3	D	81	THR	N-CA-C	-6.83	96.26	110.80
2	C	59	LYS	N-CA-C	-6.82	102.58	111.71
5	F	85	LEU	N-CA-C	-6.81	103.85	111.28
1	K	8	ALA	CA-C-N	6.80	126.83	119.89
1	K	8	ALA	C-N-CA	6.80	126.83	119.89
2	M	547	ILE	N-CA-C	6.79	113.74	107.56
3	N	592	THR	N-CA-C	-6.79	100.93	110.50
4	O	92	ILE	N-CA-C	6.78	117.39	111.90
3	D	165	LYS	N-CA-C	6.77	118.35	110.97
3	D	1043	GLY	N-CA-C	6.76	129.20	113.18
2	C	608	GLY	N-CA-C	-6.75	104.07	115.62
3	D	1120	VAL	CA-C-N	6.75	127.28	119.99
3	D	1120	VAL	C-N-CA	6.75	127.28	119.99
5	F	296	GLY	CA-C-N	6.75	128.28	119.84
5	F	296	GLY	C-N-CA	6.75	128.28	119.84
1	K	151	VAL	N-CA-C	6.75	114.83	108.15
3	N	406	ASP	N-CA-C	6.74	125.16	110.80
5	F	281	GLU	N-CA-C	6.74	118.83	108.12
1	A	226	SER	N-CA-C	6.71	121.83	111.56
3	D	422	ALA	N-CA-C	-6.68	101.68	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	260	LEU	N-CA-C	6.68	125.03	110.80
1	A	219	ARG	N-CA-C	-6.68	104.15	112.90
3	N	579	ASP	N-CA-C	-6.67	102.55	111.96
2	M	181	VAL	N-CA-C	6.66	116.95	108.82
1	K	187	GLY	N-CA-C	6.66	117.80	111.67
3	D	798	GLU	N-CA-C	6.66	116.78	108.19
2	M	469	THR	CA-C-N	6.66	126.62	120.03
2	M	469	THR	C-N-CA	6.66	126.62	120.03
3	D	80	VAL	N-CA-C	6.65	123.18	109.34
3	D	166	GLN	N-CA-C	6.64	120.35	109.72
2	C	864	GLY	N-CA-C	6.64	122.27	113.37
5	F	344	ALA	N-CA-C	-6.64	104.13	111.36
3	N	967	ALA	N-CA-C	-6.64	105.19	113.55
3	D	1063	GLU	N-CA-C	-6.62	99.79	110.32
3	D	1113	GLY	N-CA-C	6.62	123.79	113.86
2	M	608	GLY	N-CA-C	-6.62	106.15	114.16
2	M	414	GLY	CA-C-N	6.62	128.12	119.84
2	M	414	GLY	C-N-CA	6.62	128.12	119.84
3	N	527	MET	N-CA-C	-6.62	96.35	107.80
3	D	1399	ASP	N-CA-C	-6.62	105.07	113.01
3	N	882	PHE	N-CA-C	-6.62	103.17	111.11
3	N	1355	VAL	N-CA-C	6.61	117.36	110.62
3	N	528	VAL	N-CA-C	6.61	119.63	108.86
3	D	1474	ALA	N-CA-C	6.60	122.41	113.97
2	C	364	GLU	N-CA-C	6.58	121.14	112.72
5	P	217	ASN	N-CA-C	-6.57	104.04	111.14
3	N	171	LEU	CA-C-N	6.57	127.15	120.38
3	N	171	LEU	C-N-CA	6.57	127.15	120.38
3	N	80	VAL	N-CA-C	6.57	117.27	108.27
2	C	329	GLY	N-CA-C	-6.56	107.45	114.67
3	D	482	LYS	N-CA-C	6.56	120.87	112.34
1	A	7	LYS	N-CA-C	-6.56	104.51	113.30
3	D	1116	ASN	N-CA-C	-6.55	100.13	109.96
2	M	514	VAL	N-CA-C	6.54	122.94	109.34
2	M	964	LYS	N-CA-C	-6.54	103.65	111.69
2	M	1049	LEU	N-CA-C	-6.54	105.46	113.50
3	N	374	GLU	N-CA-C	6.53	116.90	108.34
3	D	771	SER	N-CA-C	6.53	117.88	109.65
3	N	1110	ALA	N-CA-C	-6.53	96.90	110.80
2	C	547	ILE	CA-C-N	6.52	127.99	119.84
2	C	547	ILE	C-N-CA	6.52	127.99	119.84
3	D	1125	PRO	N-CA-C	6.52	125.90	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	662	GLU	N-CA-C	-6.52	105.34	113.55
3	N	1318	TYR	N-CA-C	6.52	120.28	109.46
3	N	1091	SER	N-CA-C	-6.50	103.44	111.75
5	P	413	SER	N-CA-C	-6.49	104.84	112.89
2	M	941	VAL	N-CA-C	-6.48	106.68	112.12
2	M	496	ILE	N-CA-C	6.48	117.94	109.58
3	N	1243	THR	N-CA-C	6.48	124.60	110.80
3	N	928	ALA	N-CA-C	-6.46	104.28	111.71
3	N	1025	GLN	N-CA-C	6.46	119.14	111.33
5	F	376	ILE	N-CA-C	6.46	116.61	110.74
3	N	155	ASP	N-CA-C	-6.45	105.16	113.16
2	M	989	VAL	CB-CA-C	-6.42	105.70	111.74
2	M	39	ARG	N-CA-C	6.42	118.16	111.03
3	N	1026	SER	N-CA-C	-6.42	102.25	110.53
1	K	115	LEU	CA-C-N	6.41	126.79	119.93
1	K	115	LEU	C-N-CA	6.41	126.79	119.93
2	C	17	PRO	N-CA-C	-6.41	100.81	111.26
3	N	1281	VAL	N-CA-C	6.41	118.26	108.71
3	N	1285	GLU	N-CA-C	6.40	123.30	113.19
3	N	50	PHE	N-CA-C	6.40	120.56	113.21
3	N	245	LEU	N-CA-C	-6.40	101.52	109.64
3	D	136	ASP	CA-C-N	-6.39	111.85	119.84
3	D	136	ASP	C-N-CA	-6.39	111.85	119.84
2	M	58	ASP	N-CA-C	6.39	119.97	108.48
2	C	9	ILE	N-CA-C	-6.38	96.06	109.34
2	C	634	GLY	N-CA-C	6.38	123.67	114.67
3	D	210	ARG	N-CA-C	6.38	119.41	109.52
2	C	436	GLY	N-CA-C	-6.38	106.44	115.30
1	L	169	ALA	N-CA-C	6.38	118.70	109.71
2	M	953	VAL	N-CA-C	6.37	117.03	108.11
2	M	85	GLU	N-CA-C	-6.36	105.01	112.89
3	N	1418	LYS	CA-C-N	-6.35	113.23	119.90
3	N	1418	LYS	C-N-CA	-6.35	113.23	119.90
2	C	1057	SER	N-CA-C	6.35	120.28	112.54
3	D	1281	VAL	N-CA-C	6.34	118.16	108.71
5	F	285	GLU	CA-C-N	6.34	127.77	119.84
5	F	285	GLU	C-N-CA	6.34	127.77	119.84
5	F	287	THR	N-CA-C	-6.34	101.14	110.52
3	D	50	PHE	N-CA-C	6.34	119.13	111.40
2	M	103	LYS	N-CA-C	-6.34	104.81	112.54
2	M	163	ILE	N-CA-C	6.33	117.71	107.71
5	F	255	ALA	N-CA-C	6.33	120.26	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	378	ILE	N-CA-C	6.32	122.49	109.34
3	N	470	LEU	N-CA-C	-6.32	104.47	111.36
2	M	323	ASP	N-CA-C	6.32	119.01	108.96
5	F	99	GLU	N-CA-C	-6.32	103.92	111.69
2	M	887	GLU	N-CA-C	-6.32	104.49	111.82
1	A	32	PHE	N-CA-C	-6.32	106.21	114.04
3	D	934	LEU	N-CA-C	-6.31	105.71	113.41
1	L	48	ILE	CA-C-N	6.31	126.26	119.76
1	L	48	ILE	C-N-CA	6.31	126.26	119.76
2	M	696	LYS	N-CA-C	-6.31	104.32	111.07
3	N	100	ALA	N-CA-C	6.30	119.84	110.52
5	F	121	GLY	N-CA-C	-6.30	107.42	115.42
2	M	929	ARG	N-CA-C	-6.30	105.46	113.02
2	C	534	VAL	N-CA-C	6.29	118.91	111.05
5	F	370	LYS	N-CA-C	-6.28	103.96	111.69
3	D	34	TYR	N-CA-C	6.27	121.71	111.37
3	D	1064	GLY	N-CA-C	6.27	128.04	113.18
3	N	1284	GLU	N-CA-C	6.27	118.08	109.18
2	M	1102	LEU	N-CA-C	6.27	117.70	108.86
3	N	589	ALA	CA-C-N	6.27	126.22	119.76
3	N	589	ALA	C-N-CA	6.27	126.22	119.76
3	N	871	LYS	N-CA-C	6.26	117.95	110.19
3	N	22	SER	N-CA-C	6.25	118.39	110.33
5	P	245	GLN	N-CA-C	-6.24	104.39	111.07
2	C	319	GLY	N-CA-C	-6.24	98.39	113.18
3	D	28	LYS	CA-C-N	6.24	125.93	119.82
3	D	28	LYS	C-N-CA	6.24	125.93	119.82
5	F	317	LEU	N-CA-C	-6.22	104.56	111.71
5	P	285	GLU	CA-C-N	6.22	127.61	119.84
5	P	285	GLU	C-N-CA	6.22	127.61	119.84
5	P	88	ILE	N-CA-C	-6.21	104.79	110.82
1	B	169	ALA	N-CA-C	6.21	118.30	108.67
5	P	82	ARG	N-CA-C	-6.21	105.67	113.18
5	P	296	GLY	CA-C-N	6.21	127.60	119.84
5	P	296	GLY	C-N-CA	6.21	127.60	119.84
3	D	719	VAL	N-CA-C	-6.20	99.19	108.12
3	N	636	GLN	N-CA-C	6.20	120.84	113.28
1	L	201	THR	N-CA-C	6.20	118.55	108.26
1	K	91	ASN	CA-C-N	6.19	127.58	119.84
1	K	91	ASN	C-N-CA	6.19	127.58	119.84
1	A	80	LEU	N-CA-C	-6.18	105.87	113.41
2	C	1058	ASP	N-CA-C	6.18	123.96	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	435	VAL	N-CA-C	6.18	116.77	107.75
2	C	246	ASP	N-CA-C	6.17	119.25	110.24
2	C	116	GLY	N-CA-C	6.17	118.33	112.04
2	C	230	ARG	CA-C-N	6.17	127.55	119.84
2	C	230	ARG	C-N-CA	6.17	127.55	119.84
5	P	110	MET	N-CA-C	-6.16	104.48	111.14
5	P	124	PRO	N-CA-C	-6.16	104.97	113.53
1	L	8	ALA	CA-C-N	6.14	127.52	119.84
1	L	8	ALA	C-N-CA	6.14	127.52	119.84
4	E	57	ASP	N-CA-C	6.14	123.38	109.81
2	C	1078	GLU	CA-C-N	6.11	126.13	119.90
2	C	1078	GLU	C-N-CA	6.11	126.13	119.90
5	P	162	LYS	N-CA-C	-6.10	105.83	113.28
3	N	1124	GLN	CA-C-N	6.10	127.47	119.84
3	N	1124	GLN	C-N-CA	6.10	127.47	119.84
5	P	370	LYS	N-CA-C	-6.10	105.69	113.01
3	D	592	THR	N-CA-C	-6.09	102.32	110.24
3	D	1005	GLN	N-CA-C	-6.09	105.11	112.54
2	M	230	ARG	CA-C-N	6.08	127.44	119.84
2	M	230	ARG	C-N-CA	6.08	127.44	119.84
3	N	859	ASP	N-CA-C	-6.07	102.36	110.55
3	D	620	GLY	N-CA-C	6.06	118.27	111.85
3	D	736	PHE	N-CA-C	-6.05	101.09	110.10
5	F	227	PHE	N-CA-C	6.04	118.09	110.24
3	D	247	GLU	N-CA-C	6.04	123.15	109.81
2	M	713	ARG	N-CA-C	6.04	118.02	108.67
3	N	1186	VAL	CA-C-N	6.03	127.38	119.84
3	N	1186	VAL	C-N-CA	6.03	127.38	119.84
3	N	687	VAL	N-CA-C	6.03	116.50	110.23
3	N	1022	VAL	N-CA-C	-6.02	104.43	111.00
2	M	591	SER	N-CA-C	-6.02	101.50	110.23
2	M	727	PRO	N-CA-C	6.02	124.87	112.47
3	D	1352	ILE	N-CA-C	-6.02	104.64	110.42
1	L	91	ASN	CA-C-N	6.01	127.36	119.84
1	L	91	ASN	C-N-CA	6.01	127.36	119.84
2	C	731	GLU	N-CA-C	-6.00	106.94	114.56
2	C	249	LYS	N-CA-C	5.99	117.75	109.54
2	C	905	ILE	N-CA-C	5.99	121.80	109.34
2	M	178	PRO	N-CA-C	5.99	124.81	112.47
3	N	172	PRO	N-CA-C	5.99	118.00	110.70
3	D	591	VAL	N-CA-C	5.97	116.23	108.35
2	C	1118	LYS	N-CA-C	5.97	118.92	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	795	GLY	N-CA-C	-5.97	99.04	113.18
3	D	973	GLN	N-CA-C	-5.97	104.47	110.97
2	M	329	GLY	N-CA-C	-5.96	105.23	115.61
2	C	311	PHE	N-CA-C	-5.96	104.79	111.28
5	F	279	GLN	N-CA-C	-5.96	104.91	111.82
2	M	403	SER	N-CA-C	-5.95	104.18	112.45
3	N	28	LYS	CA-C-N	5.95	127.28	119.84
3	N	28	LYS	C-N-CA	5.95	127.28	119.84
2	C	220	GLY	N-CA-C	-5.94	108.13	114.67
2	M	213	ALA	N-CA-C	-5.94	105.52	112.89
3	D	1287	GLU	N-CA-C	5.92	123.40	110.80
1	K	206	THR	CA-C-N	5.91	127.23	119.84
1	K	206	THR	C-N-CA	5.91	127.23	119.84
5	F	76	SER	N-CA-C	5.91	123.38	110.80
3	N	72	VAL	N-CA-C	5.90	116.68	108.89
3	N	1104	GLU	N-CA-C	5.90	119.95	112.87
3	N	1074	SER	N-CA-C	5.90	120.21	112.89
2	C	727	PRO	N-CA-C	5.90	124.62	112.47
5	P	257	THR	N-CA-C	-5.89	105.86	113.16
2	C	193	LEU	N-CA-C	-5.89	104.45	111.69
2	C	181	VAL	N-CA-C	5.88	116.59	108.12
3	D	1047	LYS	CA-C-N	5.88	127.19	119.84
3	D	1047	LYS	C-N-CA	5.88	127.19	119.84
3	D	776	GLU	CA-C-N	5.88	126.07	119.90
3	D	776	GLU	C-N-CA	5.88	126.07	119.90
3	N	583	ASP	N-CA-C	5.87	117.96	107.80
2	M	481	ASP	N-CA-C	-5.87	104.78	112.41
2	M	492	ASP	N-CA-C	-5.85	106.12	113.20
2	C	464	LEU	N-CA-C	5.85	117.14	107.20
3	N	1492	LEU	N-CA-C	-5.85	105.98	113.23
2	C	416	GLY	N-CA-C	-5.84	108.12	115.08
4	E	31	LEU	N-CA-C	-5.84	104.91	112.68
3	N	1060	SER	N-CA-C	-5.84	100.53	109.41
2	M	194	VAL	N-CA-C	-5.84	105.04	110.53
1	A	120	VAL	N-CA-C	5.83	116.33	108.17
2	M	246	ASP	CA-C-N	5.83	126.38	120.38
2	M	246	ASP	C-N-CA	5.83	126.38	120.38
2	C	481	ASP	N-CA-C	-5.83	105.37	112.88
3	D	517	VAL	N-CA-C	5.82	113.64	107.76
5	F	410	TYR	N-CA-C	5.82	120.00	113.02
1	L	142	VAL	N-CA-C	5.81	115.11	106.85
4	E	37	ASN	N-CA-C	-5.81	106.05	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	P	140	ARG	N-CA-C	-5.81	105.08	111.82
3	N	1489	GLN	N-CA-C	-5.79	106.21	113.28
5	F	407	LYS	N-CA-C	-5.79	105.10	111.82
5	P	398	ARG	N-CA-C	-5.79	105.05	111.71
3	N	89	ARG	N-CA-C	5.79	118.10	109.25
3	D	1065	LEU	N-CA-C	-5.79	102.08	110.24
3	D	597	ASP	N-CA-C	-5.78	106.27	113.15
2	C	458	TYR	N-CA-C	5.78	119.41	112.93
3	N	462	GLN	N-CA-C	-5.78	102.08	111.04
2	C	675	ALA	N-CA-C	-5.76	100.90	110.17
2	C	514	VAL	CB-CA-C	-5.75	106.12	112.68
3	D	1477	GLY	N-CA-C	-5.75	105.78	115.62
2	C	433	THR	N-CA-C	5.75	119.47	112.23
2	C	1109	VAL	N-CA-C	-5.74	100.41	108.27
2	C	762	LYS	N-CA-C	5.74	123.02	110.80
3	N	1472	ILE	CA-C-N	5.73	127.00	119.84
3	N	1472	ILE	C-N-CA	5.73	127.00	119.84
3	D	509	PRO	N-CA-C	5.73	124.27	112.47
2	C	914	ILE	N-CA-C	-5.72	105.51	111.58
4	O	51	LEU	N-CA-C	-5.72	98.61	110.80
5	P	227	PHE	N-CA-C	5.72	118.77	110.42
3	D	1442	ASN	N-CA-C	-5.72	106.84	113.88
1	L	31	GLY	N-CA-C	5.72	122.64	115.21
5	F	193	ARG	N-CA-C	-5.72	105.41	112.90
3	N	377	VAL	N-CA-C	-5.71	99.55	108.81
2	C	1117	SER	N-CA-C	-5.71	101.83	110.28
4	E	80	VAL	CA-C-N	5.71	126.97	119.84
4	E	80	VAL	C-N-CA	5.71	126.97	119.84
5	P	271	LEU	N-CA-C	-5.71	106.16	113.23
3	D	657	LEU	N-CA-C	-5.70	104.75	110.97
2	M	214	TYR	N-CA-C	-5.70	106.46	113.41
3	N	468	LEU	N-CA-C	5.69	117.33	107.93
1	L	78	ILE	N-CA-C	-5.69	107.34	112.12
3	N	776	GLU	CA-C-N	5.69	125.69	119.89
3	N	776	GLU	C-N-CA	5.69	125.69	119.89
2	M	373	VAL	N-CA-C	5.68	116.47	108.17
3	N	1389	LEU	N-CA-C	5.68	122.91	110.80
4	O	62	THR	N-CA-C	-5.68	106.32	113.20
3	D	510	GLU	N-CA-C	-5.68	106.51	113.50
2	C	8	ARG	N-CA-C	5.68	118.74	108.69
2	M	118	ILE	N-CA-C	5.67	114.19	107.73
2	M	768	THR	CA-C-N	5.65	126.91	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	768	THR	C-N-CA	5.65	126.91	119.84
2	C	242	LEU	N-CA-C	-5.65	101.81	109.95
3	N	914	LEU	N-CA-C	-5.65	104.33	111.11
3	D	1349	VAL	N-CA-C	5.65	115.84	110.53
5	F	330	GLY	N-CA-C	5.65	119.05	112.50
5	P	132	ARG	N-CA-C	-5.64	107.40	114.56
3	D	812	ALA	N-CA-C	-5.63	106.08	113.17
3	N	739	ASP	N-CA-C	-5.63	102.15	110.48
3	D	1252	ILE	N-CA-C	5.62	117.69	108.97
3	D	644	LEU	CA-C-N	5.62	126.87	119.84
3	D	644	LEU	C-N-CA	5.62	126.87	119.84
3	D	1213	ARG	CA-C-N	-5.62	114.47	120.03
3	D	1213	ARG	C-N-CA	-5.62	114.47	120.03
5	P	279	GLN	N-CA-C	-5.62	105.69	112.54
3	N	1058	ARG	N-CA-C	5.62	119.64	112.34
2	M	689	VAL	N-CA-C	-5.61	100.32	108.17
1	B	91	ASN	CA-C-N	5.61	126.85	119.84
1	B	91	ASN	C-N-CA	5.61	126.85	119.84
3	N	1490	LYS	N-CA-C	-5.60	104.01	111.24
3	D	1295	GLU	N-CA-C	5.59	118.32	108.75
3	N	496	LEU	N-CA-C	-5.59	106.31	113.01
2	C	346	VAL	N-CA-C	-5.58	105.17	110.42
5	P	333	ILE	N-CA-C	5.58	113.43	108.63
3	D	1369	GLU	N-CA-C	-5.58	106.15	113.12
3	N	388	HIS	N-CA-C	5.58	118.08	110.55
3	N	1311	LEU	N-CA-C	5.58	118.91	109.76
3	D	1190	SER	N-CA-C	5.57	113.23	108.22
1	K	217	ILE	N-CA-C	-5.57	106.27	111.45
2	M	185	LYS	N-CA-C	5.57	118.11	107.75
3	N	1287	GLU	N-CA-C	5.57	122.67	110.80
2	C	936	VAL	N-CA-C	5.57	116.26	109.30
3	D	1297	GLU	N-CA-C	-5.57	105.59	112.38
2	M	675	ALA	N-CA-C	-5.56	101.22	110.17
2	C	567	GLN	N-CA-C	-5.55	106.28	113.16
3	N	1460	ILE	CB-CA-C	-5.55	107.00	111.71
3	D	133	ILE	N-CA-C	5.54	120.87	109.34
3	D	595	GLY	N-CA-C	-5.54	100.04	113.18
2	M	853	LEU	CA-C-N	5.54	125.72	119.90
2	M	853	LEU	C-N-CA	5.54	125.72	119.90
3	D	543	LEU	N-CA-C	-5.54	106.48	113.18
2	M	1011	GLY	CA-C-N	5.53	126.76	119.84
2	M	1011	GLY	C-N-CA	5.53	126.76	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	812	ALA	N-CA-C	-5.53	106.03	112.89
2	M	525	SER	CA-C-N	5.52	125.87	119.47
2	M	525	SER	C-N-CA	5.52	125.87	119.47
5	F	226	LYS	N-CA-C	5.52	119.18	112.23
2	C	158	TYR	N-CA-C	5.51	118.68	110.14
3	N	106	LYS	N-CA-C	5.51	119.10	112.38
2	C	345	ARG	N-CA-C	-5.50	106.93	113.97
3	N	218	LYS	N-CA-C	5.50	119.08	111.71
2	M	73	LEU	N-CA-C	-5.50	102.62	110.59
4	O	38	THR	N-CA-C	5.50	118.25	110.50
5	F	340	SER	CA-C-N	5.49	126.70	119.84
5	F	340	SER	C-N-CA	5.49	126.70	119.84
3	N	176	ASP	N-CA-C	5.49	114.02	108.75
5	P	135	ILE	N-CA-C	5.49	116.53	111.81
1	L	33	GLY	N-CA-C	-5.48	106.06	113.24
2	C	540	PHE	N-CA-C	5.47	118.84	110.36
2	M	557	ARG	N-CA-C	5.47	117.11	111.03
2	M	298	PHE	N-CA-C	5.47	117.31	108.34
3	N	1128	VAL	N-CA-C	-5.47	97.97	109.34
2	M	546	LEU	CA-C-N	-5.45	118.89	122.60
2	M	546	LEU	C-N-CA	-5.45	118.89	122.60
3	D	564	GLU	N-CA-C	5.45	116.91	110.97
3	D	18	ILE	CB-CA-C	-5.44	104.74	111.70
2	M	705	ILE	N-CA-C	5.44	114.58	106.85
3	N	211	VAL	N-CA-C	5.44	116.11	108.17
3	N	708	LEU	N-CA-C	5.44	116.89	111.07
1	A	77	GLU	N-CA-C	-5.43	105.46	113.61
3	N	1220	ALA	N-CA-C	-5.43	105.81	113.20
5	P	224	VAL	N-CA-C	-5.43	104.44	112.04
5	F	215	GLU	N-CA-C	-5.42	106.50	113.01
5	F	232	ARG	N-CA-C	5.42	122.33	110.80
2	M	322	VAL	N-CA-C	-5.41	99.71	107.78
3	D	1026	SER	N-CA-C	-5.41	101.16	109.76
3	D	809	PRO	N-CA-C	5.41	119.72	111.34
2	M	997	LEU	CA-C-N	5.38	128.99	121.02
2	M	997	LEU	C-N-CA	5.38	128.99	121.02
1	B	91	ASN	N-CA-C	5.38	117.45	110.40
5	P	149	GLU	N-CA-C	-5.38	105.49	111.36
3	N	743	ASP	N-CA-C	-5.38	103.29	110.55
3	D	949	ILE	N-CA-C	5.38	116.05	108.36
3	D	1266	ARG	N-CA-C	5.38	117.15	109.14
2	C	788	THR	N-CA-C	-5.38	103.99	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1467	ILE	N-CA-C	-5.37	104.33	111.05
3	N	1331	ASP	CA-C-N	5.37	126.56	119.84
3	N	1331	ASP	C-N-CA	5.37	126.56	119.84
2	C	662	GLU	N-CA-C	-5.37	104.47	111.02
2	M	346	VAL	N-CA-C	-5.37	104.53	112.04
1	K	120	VAL	N-CA-C	5.36	115.71	107.77
2	C	151	ASP	CA-C-N	5.35	126.53	119.84
2	C	151	ASP	C-N-CA	5.35	126.53	119.84
3	D	621	LYS	N-CA-C	-5.35	101.17	109.14
3	N	389	GLU	CA-C-N	5.35	125.34	120.21
3	N	389	GLU	C-N-CA	5.35	125.34	120.21
3	N	1173	LEU	N-CA-C	-5.34	106.44	113.17
2	C	36	PRO	N-CA-C	-5.34	106.89	113.84
5	F	283	GLY	N-CA-C	-5.34	107.54	113.79
3	N	186	VAL	N-CA-C	5.34	116.74	111.67
5	P	331	ASP	N-CA-C	-5.34	106.36	112.92
2	M	9	ILE	N-CA-C	-5.34	98.24	109.34
3	N	1154	GLU	N-CA-C	-5.33	101.47	109.15
3	N	1130	ARG	N-CA-C	5.33	116.06	108.54
2	M	1110	ASP	N-CA-C	5.33	117.18	108.55
3	D	724	GLN	N-CA-C	-5.33	105.95	113.20
5	P	92	PRO	N-CA-C	-5.33	102.88	111.77
3	N	593	ASN	CA-C-N	5.32	126.49	119.84
3	N	593	ASN	C-N-CA	5.32	126.49	119.84
2	C	367	LEU	N-CA-C	5.32	119.48	112.25
2	C	552	HIS	N-CA-C	5.32	119.92	113.38
2	C	717	LEU	N-CA-C	-5.32	106.38	112.92
3	N	408	GLU	N-CA-C	-5.32	101.50	109.79
3	N	825	ALA	CA-C-N	5.32	126.45	120.66
3	N	825	ALA	C-N-CA	5.32	126.45	120.66
2	C	718	GLY	CA-C-N	5.31	125.57	119.83
2	C	718	GLY	C-N-CA	5.31	125.57	119.83
1	K	209	GLU	N-CA-C	-5.31	104.54	111.02
2	C	520	GLU	N-CA-C	5.31	117.89	109.40
2	C	879	ARG	N-CA-C	-5.30	102.20	110.10
4	E	93	TYR	CA-C-N	5.30	126.43	120.66
4	E	93	TYR	C-N-CA	5.30	126.43	120.66
2	C	501	THR	CA-C-N	5.29	126.46	119.84
2	C	501	THR	C-N-CA	5.29	126.46	119.84
3	N	571	LYS	N-CA-C	-5.29	106.06	113.37
3	N	621	LYS	N-CA-C	-5.29	102.07	109.69
4	E	53	GLY	N-CA-C	5.29	125.72	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1389	LEU	N-CA-C	5.29	122.06	110.80
3	N	839	LEU	N-CA-C	5.29	117.73	111.33
3	D	831	GLY	N-CA-C	-5.29	100.66	113.18
2	M	191	PHE	CA-C-N	5.28	126.44	119.84
2	M	191	PHE	C-N-CA	5.28	126.44	119.84
3	N	953	ASP	N-CA-C	-5.28	106.78	114.12
2	C	1036	GLU	N-CA-C	-5.26	106.70	113.02
3	D	478	LEU	N-CA-C	-5.26	105.54	111.28
2	C	508	ILE	N-CA-C	-5.26	101.98	109.51
2	C	510	ALA	N-CA-C	5.26	117.65	110.55
3	N	1487	VAL	N-CA-C	5.25	116.05	108.48
2	C	684	PHE	N-CA-C	5.25	121.98	110.80
3	D	806	PHE	N-CA-C	5.24	121.97	110.80
4	O	57	ASP	N-CA-C	5.24	121.39	109.81
2	C	239	PHE	N-CA-C	-5.24	104.99	111.33
3	D	515	GLU	N-CA-C	-5.23	104.92	113.19
3	D	1029	ARG	N-CA-C	5.23	115.44	108.38
1	A	6	LEU	N-CA-C	-5.23	106.58	113.17
2	C	243	ARG	N-CA-C	5.23	125.05	107.32
5	F	217	ASN	N-CA-C	-5.23	105.75	111.82
1	A	199	ILE	N-CA-C	5.22	115.61	107.99
3	D	563	PRO	N-CA-C	-5.22	103.58	111.41
2	C	246	ASP	CA-C-N	5.22	125.75	120.38
2	C	246	ASP	C-N-CA	5.22	125.75	120.38
2	M	633	GLN	N-CA-C	5.22	116.69	109.54
4	O	21	VAL	N-CA-C	-5.21	104.58	111.09
3	N	736	PHE	N-CA-C	-5.21	97.46	107.57
3	D	215	TYR	N-CA-C	5.21	118.14	110.59
2	M	1108	PRO	N-CA-C	5.21	119.39	111.11
2	C	298	PHE	N-CA-C	5.20	117.57	110.55
1	L	79	ILE	N-CA-C	-5.20	104.55	111.05
1	A	140	MET	N-CA-C	5.19	117.63	108.75
3	D	558	LEU	N-CA-C	-5.19	106.45	112.89
3	N	201	GLY	N-CA-C	-5.19	102.54	111.47
5	P	327	SER	N-CA-C	5.19	116.72	108.67
2	C	323	ASP	N-CA-C	5.19	117.81	110.50
2	M	8	ARG	N-CA-C	5.18	117.86	108.69
2	C	566	THR	N-CA-C	-5.18	107.10	113.41
2	M	857	ASP	N-CA-C	5.18	121.83	110.80
3	N	1488	ASP	N-CA-C	-5.17	103.70	110.53
3	D	593	ASN	CA-C-N	5.17	126.30	119.84
3	D	593	ASN	C-N-CA	5.17	126.30	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	404	GLU	N-CA-C	5.17	117.18	108.96
3	N	1500	LYS	N-CA-C	-5.16	106.84	113.23
3	D	408	GLU	N-CA-C	-5.15	102.00	109.31
5	P	234	LYS	N-CA-C	5.14	116.74	110.41
3	D	1289	LYS	N-CA-C	5.14	118.44	110.17
3	N	1116	ASN	N-CA-C	-5.14	102.78	110.23
2	C	796	GLU	N-CA-C	5.14	115.95	108.14
3	N	1125	PRO	N-CA-C	5.14	123.05	112.47
3	D	1185	GLU	CA-C-N	-5.13	118.38	122.85
3	D	1185	GLU	C-N-CA	-5.13	118.38	122.85
2	M	730	SER	N-CA-C	5.13	121.73	110.80
5	P	90	GLN	N-CA-C	-5.13	107.19	113.50
2	C	427	VAL	N-CA-C	-5.13	105.54	110.72
3	D	895	VAL	N-CA-C	-5.12	104.57	111.44
2	C	172	ILE	N-CA-C	5.12	116.34	108.71
3	N	949	ILE	N-CA-C	5.12	114.15	106.42
3	N	841	TYR	N-CA-C	5.11	116.64	108.41
3	N	1043	GLY	N-CA-C	5.11	125.30	113.18
1	K	7	LYS	N-CA-C	-5.11	107.11	113.19
2	C	442	GLU	N-CA-C	5.11	121.68	110.80
3	D	633	VAL	N-CA-C	5.11	115.99	109.30
5	F	91	VAL	CA-C-N	-5.11	114.15	120.79
5	F	91	VAL	C-N-CA	-5.11	114.15	120.79
2	M	482	GLU	N-CA-C	-5.11	100.99	109.46
2	M	242	LEU	N-CA-C	-5.10	101.39	109.96
2	M	249	LYS	N-CA-C	5.10	119.35	113.18
3	N	893	GLU	N-CA-C	5.10	117.23	111.11
4	O	67	GLU	N-CA-C	-5.10	105.90	112.68
1	L	115	LEU	CA-C-N	5.10	126.21	119.84
1	L	115	LEU	C-N-CA	5.10	126.21	119.84
3	N	1122	LEU	N-CA-C	-5.10	105.78	112.41
5	P	300	ASP	N-CA-C	5.10	115.06	107.88
2	C	450	GLY	N-CA-C	-5.09	107.06	114.90
2	M	280	LYS	N-CA-C	5.09	116.22	108.12
2	C	696	LYS	N-CA-C	-5.09	105.17	111.33
3	D	1311	LEU	N-CA-C	5.09	117.72	110.24
3	N	432	TYR	N-CA-C	-5.09	103.77	110.43
4	E	47	LYS	N-CA-C	5.08	117.62	108.48
1	K	169	ALA	N-CA-C	5.08	116.97	107.99
2	M	882	LEU	N-CA-C	-5.07	105.94	111.82
3	N	1345	GLU	N-CA-C	-5.07	107.65	113.88
2	C	84	ARG	N-CA-C	-5.06	107.17	113.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	115	LEU	CA-C-N	5.06	126.17	119.84
1	B	115	LEU	C-N-CA	5.06	126.17	119.84
3	D	900	ILE	N-CA-C	5.06	115.14	107.75
3	N	1179	GLU	N-CA-C	-5.06	105.22	111.40
3	N	958	GLU	N-CA-C	-5.06	107.06	113.18
3	D	855	HIS	N-CA-C	5.06	118.59	112.93
3	D	950	GLY	N-CA-C	-5.06	105.83	112.81
2	C	64	LEU	N-CA-C	5.05	116.96	108.73
2	C	188	LYS	N-CA-C	5.05	116.18	108.30
3	N	1066	THR	N-CA-C	5.05	121.55	110.80
3	N	562	ALA	N-CA-C	5.04	117.26	110.31
5	F	154	LYS	N-CA-C	5.03	121.52	110.80
1	K	162	ILE	N-CA-C	5.03	119.81	109.34
3	N	91	GLY	N-CA-C	-5.03	105.86	112.81
3	D	1155	VAL	N-CA-C	5.03	119.81	109.34
1	L	7	LYS	N-CA-C	-5.03	106.73	112.92
2	C	414	GLY	N-CA-C	5.03	122.60	112.34
3	D	1223	ILE	N-CA-C	-5.03	107.93	112.96
1	L	165	ILE	CA-C-N	5.02	126.11	119.84
1	L	165	ILE	C-N-CA	5.02	126.11	119.84
5	F	231	ARG	N-CA-C	-5.01	100.34	108.41
3	N	1208	ASP	N-CA-C	5.01	121.48	110.80
3	D	958	GLU	N-CA-C	-5.01	106.34	112.90
2	M	151	ASP	CA-C-N	5.01	126.10	119.84
2	M	151	ASP	C-N-CA	5.01	126.10	119.84
3	N	78	VAL	N-CA-C	5.01	114.49	107.37
3	D	376	GLU	N-CA-C	5.01	115.65	108.74
3	D	622	ARG	N-CA-C	5.01	116.69	108.52
2	M	837	ASP	N-CA-C	-5.00	103.44	110.35
5	P	275	ALA	N-CA-C	-5.00	107.01	113.01

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	D	132	TYR	Sidechain
5	F	84	TYR	Sidechain
3	N	1015	TYR	Sidechain
3	N	1318	TYR	Sidechain
3	N	132	TYR	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	261	0
1	B	1806	0	1861	197	0
1	K	1806	0	1861	202	0
1	L	1806	0	1861	215	0
2	C	8829	0	8933	1212	0
2	M	8829	0	8933	1265	0
3	D	10975	0	11211	1833	0
3	N	10975	0	11210	1775	0
4	E	769	0	775	96	0
4	O	769	0	775	92	0
5	F	2793	0	2873	316	0
5	P	2793	0	2873	380	0
6	D	2	0	0	0	0
6	N	2	0	0	0	0
7	D	1	0	0	0	0
7	N	1	0	0	0	0
All	All	53962	0	55027	7240	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 66.

All (7240) 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)
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.21	1.20
2:C:1016:ILE:HD13	2:C:1016:ILE:H	1.06	1.16
3:D:907:GLU:HG2	3:D:1027:GLY:H	1.02	1.16
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.22	1.15
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.27	1.15
4:E:51:LEU:HG	4:E:53:GLY:H	1.07	1.12
3:N:1144:LEU:HD22	3:N:1166:LEU:HD11	1.29	1.12
3:N:887:ALA:HB1	3:N:893:GLU:HG3	1.30	1.11
3:D:131:LYS:HA	3:D:456:MET:HG3	1.21	1.10
2:C:1015:LEU:HB3	2:C:1016:ILE:HD13	1.33	1.10
3:D:789:LEU:HD12	3:D:911:LEU:HD21	1.32	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.29	1.09
3:D:1331:ASP:HB3	3:D:1334:GLN:HE21	1.14	1.09
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.35	1.09
3:D:598:ARG:HH12	5:F:319:THR:HA	1.11	1.08
2:M:1055:LEU:HD21	2:M:1079:PRO:HG3	1.34	1.08
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.13	1.07
2:C:1109:VAL:HG11	3:D:5:VAL:HG22	1.36	1.06
3:N:701:LEU:HD21	3:N:763:MET:HE3	1.27	1.06
3:D:218:LYS:HZ2	3:D:370:ALA:HA	1.19	1.06
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.32	1.06
3:N:31:THR:HG22	3:N:32:ILE:HG13	1.36	1.06
3:D:32:ILE:HD12	3:D:527:MET:HG2	1.37	1.06
2:M:157:ARG:HD2	2:M:314:THR:HG22	1.38	1.05
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.36	1.05
3:D:798:GLU:HG2	3:D:799:LYS:H	1.19	1.05
3:D:138:LYS:H	3:D:138:LYS:HD2	1.18	1.05
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	1.87	1.04
3:D:119:SER:HB2	3:D:123:LEU:H	1.17	1.04
5:P:139:ALA:HB1	5:P:152:ASP:HB3	1.38	1.04
2:C:194:VAL:HG22	2:C:221:LEU:HD12	1.39	1.04
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	1.71	1.04
4:E:82:GLU:H	4:E:82:GLU:CD	1.64	1.04
5:P:163:LEU:HD22	5:P:174:LEU:HG	1.38	1.04
2:C:1081:VAL:HB	2:C:1086:ARG:HE	1.14	1.04
2:C:952:LEU:HD12	2:C:969:GLN:HE22	1.23	1.04
2:C:443:THR:HG21	2:C:450:GLY:H	1.17	1.03
2:C:854:PRO:HB2	2:C:856:GLU:HG2	1.39	1.03
3:D:152:LEU:HD23	3:D:152:LEU:H	1.23	1.03
5:F:210:LEU:HA	5:F:213:ILE:HD12	1.37	1.03
2:C:738:ASP:OD2	2:C:744:ARG:HG2	1.58	1.03
3:D:808:THR:HB	3:D:809:PRO:HD3	1.34	1.03
5:F:269:ASN:HB3	5:F:273:ARG:HH21	1.19	1.03
3:D:237:LYS:HB3	3:D:238:PRO:HD3	1.40	1.02
3:D:616:GLN:HA	3:D:619:LEU:HB3	1.40	1.02
3:N:1031:ASN:HB3	3:N:1034:GLN:HB2	1.41	1.02
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.41	1.02
3:N:1320:GLU:HG3	3:N:1323:GLN:HE21	1.24	1.02
3:D:542:ASP:O	3:D:546:ARG:HG2	1.58	1.02
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.18	1.02
3:N:217:LYS:HE3	3:N:217:LYS:H	1.23	1.02
2:C:410:ILE:HD11	2:C:455:LEU:HD23	1.40	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:59:GLU:HG3	1:L:60:ASP:H	1.25	1.02
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.24	1.01
3:D:770:LEU:HD23	3:D:777:PRO:HA	1.38	1.01
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.21	1.01
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.43	1.00
3:D:1264:GLU:HG2	3:D:1266:ARG:CZ	1.91	1.00
3:N:845:ASN:H	3:N:848:GLU:HG3	1.23	1.00
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.27	0.99
3:D:1304:LYS:HE2	3:D:1304:LYS:H	1.27	0.99
2:M:30:LEU:HD22	2:M:118:ILE:HD12	1.39	0.99
4:O:54:LEU:HG	4:O:58:PRO:CG	1.92	0.99
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.27	0.99
3:N:1065:LEU:HD23	3:N:1065:LEU:O	1.60	0.99
3:D:119:SER:HB2	3:D:123:LEU:N	1.77	0.99
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.45	0.99
3:D:210:ARG:HD2	3:D:398:ALA:HB3	1.45	0.99
3:N:12:LEU:HB2	3:N:507:ASN:HD22	1.27	0.98
5:P:98:GLU:HA	5:P:101:GLU:OE2	1.63	0.98
2:C:897:LEU:HD13	2:C:921:ALA:HB2	1.45	0.98
2:C:577:PRO:HA	2:C:671:ASN:HD21	1.27	0.98
3:D:218:LYS:NZ	3:D:370:ALA:HA	1.78	0.98
2:C:710:ILE:HB	2:C:790:LEU:HD22	1.46	0.97
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.44	0.97
3:N:1393:GLN:HB3	3:N:1398:TRP:HE1	1.30	0.97
2:M:697:ARG:O	2:M:699:PHE:N	1.96	0.97
3:D:136:ASP:HB3	3:D:137:PRO:CD	1.93	0.97
2:M:1016:ILE:H	2:M:1016:ILE:HD13	1.26	0.97
2:C:799:ILE:H	2:C:799:ILE:HD13	1.30	0.97
4:O:51:LEU:HG	4:O:53:GLY:H	1.27	0.97
3:D:1046:GLN:HB3	3:D:1052:THR:HG22	1.47	0.97
2:C:480:THR:HG22	2:C:482:GLU:H	1.30	0.97
5:P:169:GLU:H	5:P:169:GLU:CD	1.66	0.97
2:C:1049:LEU:O	2:C:1053:LEU:HD23	1.64	0.97
3:D:986:ARG:HG3	3:D:990:ASP:OD1	1.65	0.97
2:M:384:GLU:HG3	2:M:388:ARG:HH21	1.24	0.96
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.47	0.96
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.29	0.96
2:C:694:LEU:HD23	2:C:697:ARG:HH21	1.28	0.96
3:N:9:ARG:HD2	3:N:1456:LYS:HG2	1.47	0.96
2:M:650:ARG:HD3	2:M:650:ARG:H	1.31	0.96
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.42	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.48	0.96
3:D:582:LEU:HA	3:D:603:LEU:HD12	1.47	0.96
3:D:609:GLY:HA2	3:D:613:ARG:HB3	1.46	0.96
2:M:86:LYS:HG3	2:M:813:VAL:HG12	1.47	0.96
3:D:103:TRP:HZ2	3:D:604:THR:HG1	1.08	0.96
1:K:91:ASN:ND2	1:K:92:PRO:HD2	1.81	0.96
3:N:175:VAL:HG13	3:N:217:LYS:HD3	1.47	0.95
3:N:590:PRO:HB2	3:N:600:LEU:HD11	1.45	0.95
3:N:558:LEU:HD22	5:P:145:PRO:HB3	1.48	0.95
3:D:1207:TYR:H	3:D:1366:LYS:HZ1	1.07	0.95
1:L:137:ARG:HH12	1:L:139:ASN:HB3	1.31	0.95
2:C:1005:MET:HE1	3:D:645:PRO:HG2	1.47	0.95
3:N:455:ARG:HE	3:N:463:GLN:NE2	1.64	0.95
4:E:54:LEU:HG	4:E:58:PRO:CG	1.96	0.95
3:D:907:GLU:HG2	3:D:1027:GLY:N	1.81	0.95
2:C:49:ARG:HB2	2:C:49:ARG:NH1	1.82	0.95
3:N:231:VAL:HA	3:N:378:ILE:HG12	1.48	0.95
3:D:1314:LYS:HZ3	3:D:1317:ASP:HB2	1.28	0.95
3:N:546:ARG:NH1	3:N:550:ARG:HH22	1.65	0.95
1:L:77:GLU:HG2	3:N:872:ARG:HH21	1.30	0.94
2:C:420:ARG:H	2:C:420:ARG:HD2	1.28	0.94
2:C:1081:VAL:HB	2:C:1086:ARG:NE	1.82	0.94
5:P:350:LEU:HA	5:P:422:LEU:HD13	1.50	0.94
2:C:695:LEU:HD13	2:C:832:LYS:HE3	1.50	0.94
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.48	0.94
2:M:279:GLU:HG3	2:M:280:LYS:HG3	1.49	0.94
2:M:1009:SER:HB2	3:N:651:GLU:OE1	1.67	0.94
5:P:141:VAL:O	5:P:145:PRO:HD2	1.68	0.94
1:L:86:VAL:HG12	1:L:124:ASN:HB2	1.50	0.93
2:M:683:ASN:HB2	2:M:687:ALA:O	1.68	0.93
1:B:55:SER:HB3	1:B:143:ARG:HB3	1.50	0.93
2:C:1033:GLY:O	2:C:1037:VAL:HG23	1.68	0.93
3:N:616:GLN:HB2	5:P:326:ASP:HB2	1.51	0.93
3:D:945:SER:OG	3:D:947:ILE:HG23	1.66	0.93
3:N:141:ILE:H	3:N:141:ILE:HD12	1.30	0.93
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.49	0.93
2:C:289:THR:HG22	2:C:290:LEU:HD23	1.49	0.93
3:D:374:GLU:HG2	3:D:386:HIS:HA	1.51	0.92
3:N:427:VAL:HB	3:N:435:VAL:HB	1.51	0.92
2:M:183:SER:HB2	2:M:190:LYS:HG2	1.51	0.92
2:M:265:ARG:HE	2:M:267:TYR:HA	1.35	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:711:GLU:HG2	2:C:822:VAL:HG12	1.52	0.92
3:D:711:LEU:HG	3:D:778:LEU:HD23	1.52	0.92
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.49	0.92
3:N:897:TRP:CH2	3:N:902:LEU:HD21	2.03	0.92
1:K:2:LEU:HA	1:K:6:LEU:HD22	1.52	0.92
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.50	0.92
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.52	0.92
2:C:438:ILE:HD13	2:C:453:THR:HG21	1.49	0.92
2:C:334:ARG:HB3	2:C:338:GLU:OE2	1.69	0.91
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.51	0.91
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.33	0.91
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.69	0.91
3:N:764:LEU:HG	3:N:765:SER:H	1.34	0.91
3:D:693:GLU:HG3	4:E:48:MET:HE1	1.52	0.91
3:N:792:ILE:HD11	3:N:881:LEU:HD23	1.51	0.91
3:D:1457:ASP:OD1	3:D:1459:LEU:HD23	1.69	0.91
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.52	0.91
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.71	0.91
2:M:1083:GLU:O	2:M:1087:VAL:HG23	1.70	0.91
2:C:516:ARG:NH1	2:C:521:PRO:HB3	1.86	0.91
5:P:364:ARG:O	5:P:368:VAL:HG23	1.69	0.91
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.52	0.90
5:F:161:GLN:HA	5:F:164:LYS:HE3	1.52	0.90
3:N:1201:CYS:SG	3:N:1204:CYS:HB2	2.11	0.90
5:F:138:SER:O	5:F:141:VAL:HG12	1.70	0.90
2:M:137:VAL:HG21	2:M:393:GLN:HE22	1.36	0.90
3:N:692:GLU:HG2	3:N:720:LEU:HD12	1.52	0.90
3:D:911:LEU:O	3:D:913:ASP:N	2.04	0.90
2:M:491:GLU:HB2	2:M:496:ILE:HD11	1.50	0.90
2:M:578:VAL:HG13	2:M:671:ASN:ND2	1.87	0.90
3:D:217:LYS:HB2	3:D:217:LYS:NZ	1.86	0.90
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.51	0.90
3:N:1219:GLU:HG2	3:N:1221:VAL:HG22	1.52	0.90
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.06	0.90
2:C:676:ILE:O	3:D:948:THR:HB	1.72	0.90
1:K:206:THR:HG22	1:K:209:GLU:H	1.36	0.90
2:M:680:ASP:OD1	3:N:943:THR:HG21	1.72	0.90
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.51	0.90
3:N:1372:VAL:O	3:N:1375:MET:HG3	1.71	0.90
4:O:79:LEU:HD12	4:O:80:VAL:HG23	1.54	0.90
3:D:1168:MET:HE3	3:D:1171:VAL:HB	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:269:LEU:HA	2:M:288:ARG:HE	1.36	0.89
3:N:1258:ARG:HG3	3:N:1258:ARG:HH11	1.36	0.89
1:A:86:VAL:HG12	1:A:124:ASN:HD22	1.37	0.89
1:B:56:VAL:HG22	1:B:142:VAL:HG12	1.52	0.89
5:P:123:ASP:HB3	5:P:125:ASP:OD1	1.71	0.89
3:D:65:ARG:HD2	3:D:66:GLN:HE21	1.38	0.89
2:M:194:VAL:HG22	2:M:221:LEU:HD12	1.52	0.89
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.37	0.89
3:D:699:VAL:H	3:D:756:GLN:HE22	1.15	0.89
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.37	0.89
2:M:551:GLU:CD	2:M:551:GLU:H	1.74	0.89
3:N:101:HIS:HD2	3:N:582:LEU:HD13	1.38	0.89
2:C:200:LEU:HD13	2:C:300:ASP:CG	1.98	0.89
3:D:932:ASP:OD1	3:D:935:LYS:HD3	1.72	0.89
2:C:426:ASP:HA	2:C:429:ASP:OD2	1.72	0.89
3:D:601:ARG:HD3	3:D:613:ARG:HH21	1.35	0.89
3:N:1271:LYS:NZ	3:N:1273:VAL:HA	1.88	0.89
3:N:126:VAL:HG13	3:N:132:TYR:HB2	1.54	0.89
3:D:116:LEU:HB3	3:D:118:LEU:HD13	1.53	0.89
1:K:156:HIS:HD2	1:K:158:ILE:HG12	1.38	0.89
1:A:152:PRO:HD2	1:A:155:LYS:HD2	1.55	0.88
3:N:1213:ARG:HB2	3:N:1214:PRO:HD2	1.52	0.88
2:C:879:ARG:H	2:C:879:ARG:HD2	1.38	0.88
2:M:858:MET:HE2	2:M:867:VAL:HG23	1.55	0.88
3:D:646:LYS:HG3	3:D:647:ARG:H	1.38	0.88
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.08	0.88
3:N:55:ASP:HB3	3:N:82:LYS:HE2	1.53	0.88
2:C:841:ASN:C	2:C:841:ASN:HD22	1.76	0.88
2:C:1115:LEU:HD23	3:D:85:VAL:HG13	1.56	0.88
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	1.88	0.88
3:N:965:GLU:HA	3:N:968:ASP:HB2	1.56	0.88
3:N:1426:LYS:O	3:N:1429:LEU:HB2	1.74	0.88
2:C:650:ARG:HD3	2:C:650:ARG:N	1.88	0.87
2:C:734:LEU:HA	2:C:737:LEU:HD13	1.54	0.87
2:C:1016:ILE:HD13	2:C:1016:ILE:N	1.89	0.87
1:L:77:GLU:CG	3:N:872:ARG:HH21	1.87	0.87
1:A:123:MET:C	1:A:125:PRO:HD3	1.98	0.87
2:C:949:LYS:HD3	3:D:796:ARG:CZ	2.03	0.87
3:D:1076:GLY:HA2	3:D:1079:LYS:HG2	1.56	0.87
3:N:1466:VAL:HG23	3:N:1472:ILE:HD11	1.57	0.87
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1101:VAL:HG21	3:D:1424:VAL:CG2	2.04	0.87
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.56	0.87
5:F:81:VAL:O	5:F:85:LEU:HG	1.74	0.87
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.54	0.87
3:N:502:PHE:CZ	3:N:1452:ILE:HG13	2.10	0.87
2:M:420:ARG:HD2	2:M:420:ARG:H	1.38	0.87
3:N:521:PRO:O	3:N:525:ARG:NH1	2.08	0.87
2:C:447:ALA:HA	3:D:1085:ALA:HB1	1.54	0.87
3:D:907:GLU:CG	3:D:1027:GLY:H	1.87	0.87
2:M:516:ARG:NE	3:N:1068:LEU:HD13	1.90	0.87
2:M:715:THR:HG22	2:M:717:LEU:H	1.40	0.87
1:L:5:LYS:HA	1:L:5:LYS:HE3	1.56	0.87
2:C:101:ILE:HG22	2:C:102:HIS:H	1.40	0.86
2:C:200:LEU:HD22	2:C:300:ASP:HB3	1.57	0.86
2:C:952:LEU:HD12	2:C:969:GLN:NE2	1.91	0.86
3:N:194:GLY:H	3:N:206:ARG:HA	1.39	0.86
2:M:979:THR:HG23	2:M:981:GLU:H	1.38	0.86
3:D:570:GLU:HB2	5:F:214:GLN:HE21	1.41	0.86
3:D:637:LEU:HD11	3:D:642:CYS:HA	1.57	0.86
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.57	0.86
5:P:402:ASN:HB3	5:P:406:ARG:CZ	2.05	0.86
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.10	0.86
3:N:1320:GLU:H	3:N:1323:GLN:NE2	1.72	0.86
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.57	0.86
3:N:22:SER:HA	3:N:90:MET:O	1.74	0.86
3:N:1023:MET:O	3:N:1028:ALA:HB3	1.73	0.86
2:C:682:TYR:HD1	3:D:635:PRO:HG2	1.41	0.86
4:E:51:LEU:HG	4:E:53:GLY:N	1.90	0.86
3:D:149:LYS:H	3:D:149:LYS:HD3	1.38	0.86
3:D:950:GLY:N	3:D:953:ASP:OD1	2.07	0.86
5:F:163:LEU:HD13	5:F:174:LEU:HG	1.57	0.86
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.57	0.86
2:C:1087:VAL:O	2:C:1091:GLU:HB2	1.74	0.86
3:D:764:LEU:HB3	3:D:767:HIS:HD2	1.39	0.86
3:D:1331:ASP:HB3	3:D:1334:GLN:NE2	1.90	0.86
3:D:583:ASP:OD1	3:D:604:THR:HG22	1.75	0.86
2:C:1083:GLU:O	2:C:1087:VAL:HG23	1.74	0.85
3:D:1047:LYS:HG2	3:D:1053:PHE:CE1	2.11	0.85
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	1.91	0.85
2:M:413:LEU:HD11	2:M:451:LEU:HD22	1.57	0.85
5:F:164:LYS:HA	5:F:171:LYS:NZ	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1313:VAL:HG22	3:D:1314:LYS:H	1.41	0.85
3:D:1345:GLU:O	3:D:1349:VAL:HG23	1.76	0.85
1:A:18:ARG:NH1	1:A:88:ARG:HE	1.74	0.85
5:F:152:ASP:OD2	5:F:153:PRO:HD3	1.75	0.85
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.11	0.85
3:N:149:LYS:HD3	3:N:149:LYS:H	1.42	0.85
4:O:40:LEU:HB2	4:O:45:ARG:HD2	1.58	0.85
1:B:132:LEU:HD21	1:B:138:LEU:HD22	1.58	0.85
3:D:1292:VAL:HG11	3:D:1325:LEU:HD21	1.58	0.85
2:M:759:THR:HB	2:M:785:VAL:HG11	1.57	0.85
3:N:374:GLU:HG2	3:N:386:HIS:HA	1.59	0.85
3:N:1396:GLU:HA	3:N:1399:ASP:OD2	1.77	0.85
3:D:584:ASN:OD1	3:D:590:PRO:HD2	1.77	0.85
3:D:1264:GLU:OE2	3:D:1424:VAL:HG12	1.75	0.85
1:A:12:THR:HG22	1:B:229:GLN:HB3	1.57	0.85
2:C:470:PRO:HG3	2:C:485:TYR:CE2	2.12	0.85
3:D:704:ARG:HB2	3:D:736:PHE:HB3	1.59	0.85
1:K:26:GLU:HB3	1:K:27:PRO:HD2	1.58	0.85
3:N:12:LEU:H	3:N:507:ASN:ND2	1.75	0.85
3:D:568:ARG:HA	3:D:571:LYS:NZ	1.91	0.84
3:D:1372:VAL:HA	3:D:1375:MET:HE3	1.56	0.84
1:L:107:LYS:HE2	1:L:109:VAL:HG22	1.58	0.84
2:M:405:ARG:NH2	2:M:409:ARG:HH21	1.75	0.84
3:N:95:LEU:HD12	3:N:515:GLU:HA	1.59	0.84
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.11	0.84
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.59	0.84
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.60	0.84
3:D:916:TYR:HE2	3:D:920:LEU:HD22	1.42	0.84
2:M:290:LEU:HD23	2:M:290:LEU:H	1.41	0.84
1:B:108:GLU:HG2	1:B:131:THR:HG22	1.58	0.84
2:M:949:LYS:HZ3	3:N:796:ARG:HH21	1.23	0.84
5:F:287:THR:HG23	5:F:289:GLU:H	1.42	0.84
5:P:367:MET:HG3	5:P:370:LYS:HE2	1.59	0.84
1:A:34:VAL:HB	1:B:42:ARG:HH21	1.41	0.84
2:M:545:ASN:OD1	2:M:905:ILE:HD13	1.77	0.84
2:M:630:ARG:HH21	2:M:707:ARG:H	1.24	0.84
2:M:874:LEU:HD23	3:N:1023:MET:SD	2.18	0.84
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.59	0.84
3:N:728:LEU:HD13	3:N:745:MET:HE1	1.57	0.84
2:M:385:PHE:O	2:M:389:SER:HB3	1.78	0.84
5:F:368:VAL:O	5:F:372:ARG:HB2	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:368:VAL:HG22	3:N:369:ALA:H	1.43	0.84
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.43	0.83
3:N:436:GLU:HB2	3:N:445:ARG:HB3	1.58	0.83
3:N:1295:GLU:HB3	3:N:1300:SER:HA	1.60	0.83
3:N:126:VAL:HG11	3:N:152:LEU:HD13	1.59	0.83
5:P:163:LEU:HB3	5:P:174:LEU:CD1	2.07	0.83
3:D:1333:HIS:O	3:D:1336:LEU:HB3	1.77	0.83
1:L:156:HIS:CD2	1:L:157:GLY:H	1.96	0.83
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.59	0.83
3:N:468:LEU:HD12	3:N:468:LEU:O	1.78	0.83
5:P:196:VAL:HG22	5:P:213:ILE:CD1	2.07	0.83
1:A:184:THR:O	1:A:192:LEU:HB2	1.79	0.83
2:C:1014:SER:HB3	2:C:1017:THR:O	1.79	0.83
3:D:911:LEU:O	3:D:914:LEU:N	2.12	0.83
3:N:1320:GLU:H	3:N:1323:GLN:HE21	1.23	0.83
2:C:710:ILE:HD12	2:C:790:LEU:HB2	1.59	0.83
1:L:89:PHE:HB3	1:L:94:LEU:HD13	1.59	0.83
2:M:910:LYS:H	2:M:913:GLU:HG3	1.42	0.83
2:M:535:SER:O	2:M:538:GLN:HG2	1.78	0.83
3:N:76:CYS:SG	3:N:78:VAL:HG23	2.19	0.83
3:N:556:LYS:NZ	5:P:218:GLN:HE22	1.76	0.83
3:N:814:ALA:O	3:N:818:ARG:HG3	1.78	0.83
3:D:1149:LEU:HG	3:D:1166:LEU:HD21	1.61	0.83
2:M:103:LYS:HE2	2:M:103:LYS:HA	1.60	0.83
2:M:1037:VAL:HG12	2:M:1041:GLU:OE1	1.78	0.83
2:M:350:ARG:HB2	2:M:377:PRO:HB3	1.59	0.83
2:M:859:PRO:O	2:M:867:VAL:HG22	1.78	0.83
2:M:1101:THR:C	2:M:1102:LEU:HD12	2.04	0.83
3:D:546:ARG:NH2	3:D:550:ARG:HH22	1.77	0.83
2:M:1039:ALA:HB3	3:N:713:ILE:HD12	1.60	0.83
3:N:1065:LEU:HG	3:N:1069:GLU:OE2	1.79	0.83
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.04	0.83
1:A:72:LYS:HB3	1:A:131:THR:OG1	1.77	0.82
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.61	0.82
3:D:477:LEU:HA	3:D:480:GLU:HB3	1.61	0.82
3:N:1311:LEU:HD23	3:N:1311:LEU:H	1.43	0.82
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.60	0.82
2:M:376:ARG:HH21	2:M:379:GLU:HG2	1.41	0.82
3:N:12:LEU:HB2	3:N:507:ASN:ND2	1.93	0.82
5:P:120:THR:HG22	5:P:122:LEU:HD13	1.58	0.82
5:P:354:LEU:HA	5:P:418:LEU:HD11	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:382:GLU:HG2	3:D:383:GLY:H	1.43	0.82
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.60	0.82
3:N:603:LEU:O	3:N:606:ILE:HB	1.79	0.82
3:D:377:VAL:HG13	3:D:382:GLU:HG2	1.58	0.82
2:M:328:LEU:HB2	2:M:433:THR:HB	1.62	0.82
2:M:674:VAL:HG11	2:M:992:MET:HE3	1.60	0.82
3:N:976:GLN:O	3:N:979:GLU:HB2	1.79	0.82
4:O:45:ARG:HH12	4:O:72:ARG:HH21	1.22	0.82
2:C:1003:ASP:HA	3:D:744:GLN:HE22	1.44	0.82
2:M:336:VAL:HA	2:M:339:LEU:HD12	1.61	0.82
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.62	0.82
2:C:1118:LYS:HA	3:D:23:TYR:CE1	2.13	0.82
3:D:235:ALA:HB2	3:D:241:ILE:HB	1.61	0.82
3:D:699:VAL:HA	3:D:718:PRO:HD3	1.60	0.82
3:D:1342:GLU:HA	3:D:1345:GLU:OE1	1.79	0.82
3:N:212:ARG:HB3	3:N:394:LEU:HD13	1.62	0.82
1:A:66:SER:O	1:A:75:VAL:HG23	1.78	0.82
2:C:679:PHE:O	2:C:681:GLY:N	2.12	0.82
3:D:1049:SER:OG	3:D:1051:GLU:HG2	1.80	0.82
2:M:65:VAL:HG23	2:M:101:ILE:HB	1.60	0.82
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.09	0.82
1:A:86:VAL:HG12	1:A:124:ASN:ND2	1.94	0.82
2:C:474:VAL:HG23	2:C:478:VAL:C	2.05	0.82
3:D:679:ARG:HH22	3:D:681:ARG:NE	1.77	0.82
2:M:162:ILE:HD11	2:M:306:THR:HG21	1.61	0.82
2:C:1081:VAL:CB	2:C:1086:ARG:HE	1.93	0.82
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	1.95	0.82
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.61	0.81
3:D:609:GLY:CA	3:D:613:ARG:HB3	2.09	0.81
1:K:219:ARG:HB3	1:K:219:ARG:HH11	1.45	0.81
1:B:219:ARG:HH21	1:B:220:GLU:HB2	1.43	0.81
3:D:528:VAL:HB	3:D:536:ALA:HB3	1.61	0.81
3:N:388:HIS:HB2	5:P:94:LEU:HD21	1.59	0.81
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.60	0.81
3:D:1262:LEU:HD23	3:D:1352:ILE:HG12	1.61	0.81
2:M:91:GLN:HA	2:M:119:PRO:HA	1.63	0.81
3:N:798:GLU:HG2	3:N:799:LYS:H	1.45	0.81
3:D:217:LYS:HB2	3:D:217:LYS:HZ3	1.43	0.81
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.62	0.81
1:K:189:ARG:HG2	1:K:190:THR:H	1.45	0.81
2:M:815:LEU:HG	2:M:819:VAL:HB	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1389:LEU:H	3:N:1389:LEU:HD23	1.45	0.81
5:P:214:GLN:HA	5:P:217:ASN:HD22	1.45	0.81
3:N:1330:ILE:HG21	3:N:1335:LEU:HD12	1.62	0.81
2:C:695:LEU:HD22	2:C:832:LYS:HG2	1.62	0.81
4:E:54:LEU:HD23	4:E:54:LEU:O	1.80	0.81
2:C:1045:ALA:HA	3:D:758:GLU:OE1	1.79	0.81
3:D:783:ARG:NH2	3:D:1029:ARG:NH1	2.28	0.81
1:L:91:ASN:H	1:L:94:LEU:HD12	1.45	0.81
3:N:217:LYS:HD2	3:N:218:LYS:H	1.43	0.81
3:N:397:LYS:HE2	3:N:399:ARG:HE	1.44	0.81
2:C:1043:TYR:CE2	3:D:710:ARG:HD3	2.16	0.81
3:N:1307:LYS:HG3	3:N:1308:GLU:H	1.45	0.81
2:C:100:LEU:HD21	2:C:368:THR:HA	1.62	0.81
3:D:426:LYS:HB3	5:F:134:LYS:O	1.79	0.81
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.63	0.81
2:C:1067:TYR:CZ	2:C:1071:ILE:HD11	2.16	0.81
2:C:878:SER:HB2	3:D:1029:ARG:HD3	1.60	0.80
3:D:704:ARG:HG3	3:D:705:ALA:N	1.95	0.80
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.63	0.80
2:M:554:ASP:HB2	2:M:880:MET:HB2	1.63	0.80
2:M:798:GLY:C	2:M:799:ILE:HD13	2.07	0.80
3:N:1376:MET:HE3	3:N:1421:LEU:HD13	1.62	0.80
2:C:710:ILE:CD1	2:C:790:LEU:HB2	2.11	0.80
3:N:984:THR:HG23	3:N:987:GLU:H	1.47	0.80
2:C:21:ILE:H	2:C:21:ILE:HD12	1.45	0.80
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.11	0.80
3:D:774:SER:HB3	3:D:1362:LYS:O	1.81	0.80
3:D:1154:GLU:HG3	3:D:1159:ARG:HH11	1.46	0.80
1:B:2:LEU:O	1:B:6:LEU:HB3	1.80	0.80
3:D:570:GLU:HB2	5:F:214:GLN:NE2	1.97	0.80
3:D:1003:VAL:O	3:D:1006:ALA:HB3	1.81	0.80
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.09	0.80
2:M:1014:SER:HB3	2:M:1017:THR:O	1.81	0.80
3:D:234:GLU:HB3	3:D:240:GLU:HB2	1.64	0.80
2:M:474:VAL:HG11	2:M:529:VAL:HG12	1.61	0.80
5:P:196:VAL:CG1	5:P:200:LYS:HE3	2.12	0.80
3:D:709:HIS:CD2	3:D:711:LEU:HB2	2.17	0.80
2:C:670:GLN:HG2	2:C:699:PHE:CD2	2.16	0.80
1:A:1:MET:O	1:A:6:LEU:HD22	1.81	0.80
2:C:474:VAL:HG23	2:C:478:VAL:O	1.82	0.80
3:D:234:GLU:CD	3:D:234:GLU:H	1.89	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.12	0.80
1:A:58:ILE:HB	1:A:61:VAL:HB	1.61	0.80
2:C:915:LYS:NZ	3:D:952:ASP:OD1	2.15	0.80
2:M:89:THR:HA	2:M:129:ILE:O	1.81	0.80
2:M:1055:LEU:N	2:M:1055:LEU:HD23	1.97	0.80
3:N:187:LYS:HZ1	3:N:213:VAL:HG12	1.45	0.80
5:P:123:ASP:HB3	5:P:125:ASP:CG	2.07	0.80
2:M:21:ILE:H	2:M:21:ILE:HD12	1.45	0.80
3:N:486:ARG:HH21	3:N:489:ARG:CZ	1.95	0.80
5:P:132:ARG:O	5:P:136:LEU:HG	1.82	0.80
2:M:910:LYS:H	2:M:913:GLU:CG	1.94	0.79
2:M:1109:VAL:HG22	3:N:3:LYS:HB2	1.64	0.79
5:P:105:LYS:NZ	5:P:105:LYS:HB3	1.98	0.79
5:F:386:VAL:HG13	5:F:387:GLY:H	1.47	0.79
1:K:33:GLY:HA2	1:K:195:LEU:HB2	1.64	0.79
1:L:133:GLU:HG3	1:L:134:GLU:H	1.47	0.79
2:M:1115:LEU:HB3	3:N:85:VAL:HG12	1.62	0.79
1:A:195:LEU:HD12	1:A:196:THR:N	1.97	0.79
2:C:1076:VAL:HG22	3:D:752:SER:HB3	1.63	0.79
3:N:1115:THR:HB	3:N:1151:ARG:NH2	1.97	0.79
1:L:201:THR:HG21	1:L:205:VAL:O	1.82	0.79
2:M:145:GLY:HA3	2:M:276:LYS:HD2	1.64	0.79
2:M:1018:GLN:HG3	2:M:1060:ILE:CD1	2.12	0.79
3:D:1154:GLU:HG2	3:D:1159:ARG:HG2	1.63	0.79
1:L:137:ARG:NH1	1:L:139:ASN:HB3	1.97	0.79
3:N:36:THR:HG22	3:N:38:LYS:HG3	1.62	0.79
1:A:1:MET:HB2	1:A:6:LEU:HD13	1.65	0.79
3:N:195:VAL:HB	3:N:205:TYR:HB2	1.64	0.79
3:N:1450:ALA:HA	3:N:1455:LYS:HG3	1.63	0.79
1:K:224:TYR:CE1	1:L:9:PRO:HD2	2.17	0.79
1:L:151:VAL:HB	1:L:169:ALA:HB3	1.65	0.79
2:M:205:GLU:O	2:M:209:ARG:HD2	1.83	0.79
2:M:565:GLN:C	2:M:567:GLN:H	1.89	0.79
3:N:1156:LEU:HD12	3:N:1177:ALA:HB2	1.65	0.79
4:O:54:LEU:CG	4:O:58:PRO:HG2	2.06	0.79
2:C:436:GLY:HA2	2:C:538:GLN:O	1.83	0.79
2:C:1052:MET:HA	2:C:1056:LYS:HD2	1.63	0.79
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.65	0.79
2:M:1055:LEU:HD21	2:M:1079:PRO:CG	2.12	0.79
3:N:461:ILE:HG22	3:N:465:LEU:HD12	1.65	0.79
3:N:710:ARG:HH11	3:N:772:PRO:HG2	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.65	0.78
4:E:45:ARG:NH2	4:E:72:ARG:HH21	1.81	0.78
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.48	0.78
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.64	0.78
2:C:1050:GLN:HG2	2:C:1079:PRO:HG2	1.66	0.78
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.65	0.78
3:D:691:LEU:HD23	3:D:720:LEU:HD21	1.64	0.78
3:D:1207:TYR:N	3:D:1366:LYS:HZ1	1.80	0.78
3:D:1462:LEU:HD13	3:D:1472:ILE:HG23	1.63	0.78
1:K:189:ARG:HD2	1:K:191:ASP:OD1	1.83	0.78
2:M:432:ARG:HH22	3:N:1047:LYS:CD	1.97	0.78
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.18	0.78
2:M:534:VAL:H	2:M:538:GLN:HE22	1.28	0.78
2:M:880:MET:HE3	3:N:1034:GLN:HG2	1.65	0.78
3:N:387:LEU:HD12	5:P:96:LEU:HD12	1.63	0.78
2:C:399:ASN:ND2	2:C:568:ALA:O	2.16	0.78
3:N:9:ARG:HB2	3:N:1456:LYS:HA	1.64	0.78
3:N:1472:ILE:O	3:N:1477:GLY:HA3	1.84	0.78
3:D:10:ILE:HG22	3:D:1451:ALA:HA	1.65	0.78
3:D:1087:ARG:HE	3:D:1238:MET:HB2	1.48	0.78
3:D:1129:THR:HG23	3:D:1130:ARG:N	1.97	0.78
3:D:1304:LYS:H	3:D:1304:LYS:CE	1.95	0.78
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.18	0.78
3:N:502:PHE:CE2	3:N:1452:ILE:HG13	2.17	0.78
3:N:584:ASN:ND2	3:N:590:PRO:HD2	1.97	0.78
3:N:954:ALA:HA	3:N:1039:CYS:SG	2.24	0.78
2:C:504:GLU:HB2	2:C:507:ARG:HB3	1.63	0.78
3:D:40:GLU:HG3	3:D:41:ARG:H	1.48	0.78
5:F:278:LEU:HB3	5:F:286:PRO:HG2	1.64	0.78
2:M:184:MET:HE1	2:M:186:VAL:HG13	1.66	0.78
3:N:23:TYR:CE2	3:N:89:ARG:HD3	2.19	0.78
3:N:481:MET:HE1	3:N:1388:ARG:NE	1.99	0.78
2:C:291:ALA:O	2:C:299:LYS:HE2	1.83	0.78
2:C:562:SER:C	2:C:563:ASN:HD22	1.92	0.78
2:C:769:PRO:HB2	3:D:65:ARG:HH22	1.49	0.78
3:N:1281:VAL:HG22	3:N:1294:VAL:HG22	1.66	0.78
1:A:201:THR:HG22	1:A:203:GLY:H	1.46	0.78
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.65	0.78
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.65	0.78
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.65	0.78
2:C:1094:ALA:CB	3:D:603:LEU:HD22	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:18:LEU:HD22	2:M:590:ASP:OD2	1.85	0.77
2:M:432:ARG:CZ	3:N:1048:PRO:HD2	2.14	0.77
2:M:882:LEU:HD12	3:N:1061:PHE:HB3	1.66	0.77
1:A:94:LEU:HD11	1:A:119:ASP:HB3	1.65	0.77
2:C:420:ARG:H	2:C:420:ARG:CD	1.98	0.77
2:C:863:ASP:OD2	2:C:864:GLY:N	2.16	0.77
3:D:145:VAL:CG2	3:D:146:PRO:HD2	2.13	0.77
3:D:1198:TYR:OH	3:D:1394:VAL:HG21	1.84	0.77
2:M:351:LEU:HD11	2:M:373:VAL:HG13	1.66	0.77
2:M:726:ILE:HD11	2:M:754:ILE:HG21	1.66	0.77
5:P:74:LYS:HA	5:P:74:LYS:HE2	1.67	0.77
5:P:389:PHE:CD2	5:P:397:ILE:HD11	2.18	0.77
2:C:468:ARG:HG2	2:C:487:THR:HA	1.66	0.77
3:D:773:ALA:O	3:D:1363:LEU:HA	1.84	0.77
3:D:1229:ILE:HD11	3:D:1368:ILE:HG12	1.66	0.77
3:N:1191:PRO:HD2	3:N:1369:GLU:OE1	1.85	0.77
2:C:854:PRO:HB2	2:C:856:GLU:CG	2.14	0.77
3:D:131:LYS:CA	3:D:456:MET:HG3	2.10	0.77
3:D:1109:GLU:CD	3:D:1110:ALA:N	2.41	0.77
5:F:395:GLU:O	5:F:399:GLN:HB2	1.83	0.77
1:L:71:VAL:HG22	1:L:132:LEU:HG	1.65	0.77
3:N:101:HIS:CD2	3:N:582:LEU:HD13	2.19	0.77
2:C:966:LEU:HD21	2:C:986:PRO:HG3	1.66	0.77
3:D:194:GLY:H	3:D:206:ARG:HA	1.50	0.77
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.65	0.77
2:M:553:ASP:OD2	2:M:881:ASN:HB2	1.84	0.77
3:N:37:LEU:HD11	3:N:529:GLN:HE21	1.49	0.77
3:N:1271:LYS:NZ	3:N:1334:GLN:HE22	1.82	0.77
5:P:169:GLU:CD	5:P:169:GLU:N	2.39	0.77
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.65	0.77
5:F:271:LEU:HD12	5:F:308:LEU:HD21	1.65	0.77
5:F:346:THR:HG23	5:F:422:LEU:HB3	1.67	0.77
5:F:373:LYS:HA	5:F:378:GLY:HA2	1.67	0.77
3:N:792:ILE:HG23	3:N:793:THR:HG23	1.65	0.77
5:P:196:VAL:HG12	5:P:200:LYS:HE3	1.67	0.77
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.47	0.77
2:M:328:LEU:H	2:M:433:THR:HG21	1.48	0.77
2:M:949:LYS:HZ3	3:N:796:ARG:NH2	1.83	0.77
2:M:1109:VAL:HG12	2:M:1110:ASP:H	1.50	0.77
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.20	0.77
3:D:609:GLY:HA3	3:D:614:PHE:H	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:937:TYR:HD1	3:D:937:TYR:H	1.33	0.77
3:D:1020:LEU:HA	3:D:1023:MET:HE2	1.65	0.77
3:D:1398:TRP:CZ3	3:D:1415:VAL:HG21	2.20	0.77
3:N:709:HIS:NE2	3:N:711:LEU:HB2	1.99	0.77
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.66	0.77
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.15	0.77
2:M:44:ILE:HD11	2:M:340:MET:HE1	1.66	0.77
2:M:795:GLY:O	2:M:796:GLU:HG2	1.85	0.77
3:N:387:LEU:HD21	5:P:97:GLU:OE2	1.85	0.77
3:N:1136:LYS:HB2	3:N:1139:ASP:OD1	1.83	0.77
3:N:1321:ALA:O	3:N:1339:LYS:HD3	1.84	0.77
2:C:627:ARG:HG3	2:C:628:PHE:H	1.49	0.77
2:C:775:ARG:NH1	2:C:782:ALA:HB1	2.00	0.77
5:P:95:THR:O	5:P:96:LEU:HD23	1.86	0.77
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.67	0.76
2:C:1032:PHE:O	3:D:620:GLY:HA2	1.84	0.76
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.67	0.76
5:F:102:LEU:O	5:F:106:VAL:HG23	1.85	0.76
2:M:56:GLU:H	2:M:64:LEU:HB3	1.50	0.76
2:M:1016:ILE:HD13	2:M:1016:ILE:N	1.98	0.76
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.66	0.76
1:B:152:PRO:HB2	1:B:155:LYS:HB2	1.67	0.76
3:D:525:ARG:N	3:D:526:PRO:HD3	1.98	0.76
3:D:911:LEU:O	3:D:912:LYS:C	2.28	0.76
5:P:88:ILE:HD13	5:P:193:ARG:HD2	1.66	0.76
1:A:158:ILE:HD13	1:A:159:LYS:N	2.00	0.76
3:N:376:GLU:HB3	3:N:384:VAL:HG13	1.66	0.76
3:N:975:GLU:CD	3:N:988:ARG:HH12	1.92	0.76
3:N:1042:ARG:HH12	3:N:1045:MET:CE	1.98	0.76
3:N:1498:ALA:HA	3:N:1501:GLU:CD	2.10	0.76
3:D:549:ASN:ND2	5:F:254:GLN:HE21	1.83	0.76
3:D:1155:VAL:HG13	3:D:1183:ILE:HD11	1.66	0.76
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.19	0.76
4:O:39:VAL:HG22	4:O:67:GLU:CD	2.11	0.76
2:C:870:ILE:O	2:C:871:LEU:HD12	1.86	0.76
3:D:1101:VAL:CG2	3:D:1424:VAL:HG22	2.10	0.76
3:D:1471:LEU:HD23	3:D:1482:ARG:NH1	2.01	0.76
2:M:580:MET:HE3	2:M:902:ILE:HD11	1.68	0.76
4:O:51:LEU:HG	4:O:52:GLU:H	1.51	0.76
2:C:102:HIS:HE1	2:C:367:LEU:HD21	1.50	0.76
2:C:504:GLU:OE1	2:C:507:ARG:HD2	1.83	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:650:ARG:HD3	2:C:650:ARG:H	1.50	0.76
2:C:1099:VAL:HG12	3:D:10:ILE:HG12	1.66	0.76
3:D:131:LYS:HA	3:D:456:MET:CG	2.11	0.76
3:D:628:ARG:HG2	3:D:629:SER:H	1.51	0.76
3:D:714:GLN:HE22	3:D:735:ALA:CB	1.99	0.76
3:D:1304:LYS:HE2	3:D:1304:LYS:N	2.00	0.76
1:L:156:HIS:HD2	1:L:157:GLY:H	1.30	0.76
3:N:1252:ILE:HG22	3:N:1253:THR:H	1.50	0.76
2:C:728:HIS:C	2:C:729:LEU:HD22	2.11	0.76
3:D:28:LYS:O	3:D:43:GLY:HA2	1.86	0.76
4:E:54:LEU:CG	4:E:58:PRO:HG2	2.14	0.76
1:K:86:VAL:HG12	1:K:124:ASN:ND2	2.01	0.76
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.66	0.76
3:N:881:LEU:HD21	3:N:941:PHE:CZ	2.21	0.76
3:D:79:GLU:HG2	3:D:80:VAL:H	1.50	0.76
1:K:26:GLU:CB	1:K:27:PRO:HD2	2.16	0.76
1:K:219:ARG:NH1	1:K:220:GLU:N	2.33	0.76
3:D:112:ILE:HD11	3:D:124:GLU:HG2	1.66	0.76
3:D:724:GLN:O	3:D:724:GLN:HG2	1.85	0.76
3:D:868:TYR:CD1	3:D:869:MET:HG3	2.20	0.76
2:M:42:VAL:HG12	2:M:43:GLY:H	1.51	0.76
2:M:909:ALA:C	2:M:910:LYS:HD2	2.11	0.76
2:M:1094:ALA:HA	3:N:90:MET:HE1	1.68	0.76
3:N:950:GLY:O	3:N:953:ASP:HB2	1.84	0.76
3:N:1183:ILE:HG22	3:N:1184:GLN:H	1.51	0.76
4:O:45:ARG:HH12	4:O:72:ARG:NH2	1.83	0.76
4:O:45:ARG:NH1	4:O:72:ARG:HH21	1.83	0.76
5:P:416:ARG:HD3	5:P:419:ARG:HG3	1.68	0.76
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.25	0.76
3:N:455:ARG:HE	3:N:463:GLN:HE21	1.33	0.76
2:C:578:VAL:HG11	2:C:991:GLN:OE1	1.85	0.75
3:D:425:GLY:O	3:D:427:VAL:HG23	1.85	0.75
2:M:622:GLU:HG2	2:M:624:PRO:HD3	1.68	0.75
3:N:1320:GLU:HG3	3:N:1323:GLN:NE2	1.98	0.75
4:O:22:VAL:HG11	4:O:68:LEU:HD21	1.68	0.75
3:D:897:TRP:CZ2	3:D:902:LEU:HD11	2.21	0.75
3:N:224:ARG:HD2	3:N:224:ARG:C	2.11	0.75
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.51	0.75
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.67	0.75
2:M:366:SER:O	2:M:371:LYS:HE3	1.86	0.75
3:D:711:LEU:HG	3:D:778:LEU:CD2	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:798:GLY:O	2:M:799:ILE:HD13	1.86	0.75
5:P:406:ARG:HA	5:P:409:LYS:HE2	1.68	0.75
1:A:23:PHE:HE1	1:A:208:LEU:HD13	1.51	0.75
1:A:46:SER:O	1:A:47:SER:HB2	1.86	0.75
2:C:1090:LYS:HE2	2:C:1112:PHE:CZ	2.21	0.75
3:D:947:ILE:HD12	3:D:947:ILE:O	1.87	0.75
3:D:1437:ALA:O	3:D:1446:VAL:HG21	1.86	0.75
3:D:1472:ILE:O	3:D:1477:GLY:HA3	1.85	0.75
1:K:64:GLU:HG2	1:K:76:VAL:HG22	1.69	0.75
2:M:910:LYS:HB2	2:M:913:GLU:HG3	1.69	0.75
2:M:1044:GLY:CA	3:N:762:GLN:HE22	2.00	0.75
1:A:25:LEU:HD23	1:A:25:LEU:O	1.87	0.75
1:B:62:LEU:HA	1:B:163:ASN:HB3	1.68	0.75
3:D:592:THR:OG1	3:D:600:LEU:HD21	1.87	0.75
3:D:804:LEU:HD21	3:D:829:VAL:HG11	1.66	0.75
1:K:218:LEU:HD23	1:L:222:LEU:HD11	1.68	0.75
2:M:445:GLU:OE2	2:M:560:MET:HG2	1.86	0.75
2:M:863:ASP:O	2:M:865:THR:N	2.19	0.75
3:N:699:VAL:H	3:N:756:GLN:NE2	1.83	0.75
3:N:834:THR:HB	3:N:838:ARG:HB2	1.68	0.75
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.68	0.75
2:C:1044:GLY:O	2:C:1045:ALA:C	2.28	0.75
3:D:161:LEU:O	3:D:449:SER:HB2	1.86	0.75
3:D:234:GLU:C	3:D:238:PRO:HD2	2.12	0.75
5:F:131:VAL:HG13	5:F:178:ARG:HD3	1.69	0.75
2:M:137:VAL:HG21	2:M:393:GLN:NE2	2.00	0.75
2:C:632:ASN:HB2	2:C:633:GLN:NE2	2.02	0.75
3:D:119:SER:CB	3:D:123:LEU:HB2	2.16	0.75
3:D:1396:GLU:HG2	3:D:1399:ASP:HB2	1.69	0.75
2:M:957:LYS:HD3	2:M:961:GLU:HB3	1.69	0.75
3:D:73:CYS:HB3	3:D:76:CYS:O	1.87	0.75
3:D:783:ARG:HE	3:D:1029:ARG:NE	1.84	0.75
5:F:179:GLU:O	5:F:182:ALA:HB3	1.87	0.75
2:M:167:LYS:C	2:M:167:LYS:HD3	2.12	0.75
2:M:775:ARG:HD2	2:M:782:ALA:HB3	1.68	0.75
2:M:886:LEU:HD11	3:N:951:ILE:HG13	1.69	0.75
3:N:853:VAL:HG11	3:N:860:LEU:HG	1.67	0.75
3:N:949:ILE:HD11	3:N:1023:MET:HE1	1.69	0.75
3:N:984:THR:CG2	3:N:987:GLU:H	2.00	0.75
3:N:1042:ARG:HH22	3:N:1045:MET:HE1	1.50	0.75
2:C:682:TYR:CZ	2:C:851:LYS:HE2	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1095:LEU:HA	3:D:582:LEU:HD22	1.69	0.74
3:D:646:LYS:HG3	3:D:647:ARG:N	2.00	0.74
3:D:734:GLU:HG2	3:D:780:LYS:HE2	1.67	0.74
3:D:1370:ILE:HG22	3:D:1371:VAL:N	2.01	0.74
2:M:876:VAL:HG22	2:M:884:GLN:NE2	2.02	0.74
3:N:988:ARG:NH1	3:N:992:ILE:HD11	2.01	0.74
3:N:1042:ARG:NH1	3:N:1045:MET:SD	2.60	0.74
5:P:105:LYS:HE3	5:P:179:GLU:HG2	1.68	0.74
2:C:1091:GLU:OE2	3:D:606:ILE:HG21	1.87	0.74
3:D:102:ILE:HD12	3:D:579:ASP:HB3	1.68	0.74
5:F:142:ARG:NH1	5:F:150:THR:HG21	2.02	0.74
1:L:108:GLU:HB3	1:L:128:HIS:HE1	1.52	0.74
3:N:1336:LEU:HB2	3:N:1344:VAL:HG21	1.69	0.74
2:C:134:ARG:HH12	2:C:392:SER:C	1.94	0.74
2:C:471:TYR:CD2	2:C:496:ILE:HD13	2.23	0.74
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.18	0.74
2:C:674:VAL:HG23	2:C:869:VAL:HG13	1.69	0.74
3:D:1489:GLN:O	3:D:1493:LYS:HG2	1.87	0.74
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.69	0.74
1:K:143:ARG:HD3	1:K:158:ILE:HG21	1.67	0.74
2:M:292:ARG:HB2	2:M:299:LYS:HE2	1.69	0.74
2:M:430:VAL:HG23	3:N:1078:ARG:NH1	2.02	0.74
2:M:549:PHE:HE2	2:M:887:GLU:HA	1.52	0.74
2:M:1015:LEU:HB3	2:M:1016:ILE:HD13	1.68	0.74
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.49	0.74
3:D:994:GLN:HE21	3:D:998:GLU:CD	1.95	0.74
2:M:1008:ARG:HD2	2:M:1029:GLY:N	2.02	0.74
5:P:369:LEU:HD12	5:P:401:GLU:HG3	1.68	0.74
3:D:729:HIS:CE1	3:D:731:LEU:H	2.05	0.74
5:F:164:LYS:HA	5:F:171:LYS:HZ3	1.52	0.74
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.70	0.74
1:A:226:SER:O	1:A:228:PRO:HD3	1.87	0.74
3:D:1065:LEU:HD23	3:D:1070:TYR:CD2	2.22	0.74
3:D:1095:THR:OG1	3:D:1230:GLY:HA3	1.86	0.74
3:N:139:GLY:HA2	3:N:452:ILE:HG13	1.70	0.74
2:C:694:LEU:HD23	2:C:697:ARG:NH2	2.03	0.74
2:C:771:GLU:O	2:C:771:GLU:HG2	1.87	0.74
2:C:842:ARG:HH21	2:C:887:GLU:CD	1.96	0.74
3:D:1207:TYR:O	3:D:1208:ASP:O	2.06	0.74
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.69	0.74
2:M:1071:ILE:HG23	3:N:670:VAL:HG21	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:576:GLU:HA	3:N:579:ASP:OD2	1.88	0.74
4:O:24:ALA:O	4:O:28:GLN:HG3	1.87	0.74
2:C:332:ARG:HG3	2:C:465:GLY:HA3	1.69	0.74
3:D:570:GLU:OE2	5:F:214:GLN:HG3	1.87	0.74
3:D:994:GLN:HG3	3:D:998:GLU:CD	2.12	0.74
1:K:194:LYS:O	1:K:194:LYS:HG2	1.88	0.74
2:M:259:GLY:O	2:M:291:ALA:HB2	1.87	0.74
2:M:1008:ARG:HH12	2:M:1010:THR:HA	1.52	0.74
3:N:396:VAL:HG13	3:N:447:VAL:HA	1.70	0.74
3:N:959:GLU:HB2	3:N:963:TYR:CE1	2.22	0.74
2:C:844:GLY:O	2:C:846:LYS:N	2.21	0.74
3:D:139:GLY:HA3	3:D:452:ILE:HD12	1.70	0.74
2:M:545:ASN:HB3	2:M:583:LEU:HD12	1.67	0.74
2:M:1088:LEU:O	2:M:1091:GLU:HB2	1.88	0.74
3:N:231:VAL:HA	3:N:378:ILE:CG1	2.18	0.74
1:B:133:GLU:HG3	1:B:134:GLU:H	1.52	0.74
3:D:224:ARG:HD3	3:D:224:ARG:H	1.52	0.74
3:D:367:ILE:CD1	3:D:368:VAL:H	2.01	0.74
3:D:770:LEU:CD2	3:D:777:PRO:HA	2.18	0.74
1:K:189:ARG:NH1	1:L:155:LYS:NZ	2.36	0.74
3:N:438:ASP:HB3	3:N:443:VAL:HB	1.70	0.74
3:N:1167:SER:N	3:N:1170:ASP:OD2	2.16	0.74
1:A:152:PRO:HB3	1:A:154:GLU:OE1	1.88	0.73
2:C:79:PRO:HG2	2:C:82:GLU:HB2	1.70	0.73
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.13	0.73
3:D:1314:LYS:HZ1	3:D:1317:ASP:HB2	1.53	0.73
3:D:1331:ASP:OD1	3:D:1334:GLN:HG3	1.88	0.73
5:F:152:ASP:CG	5:F:153:PRO:HD3	2.13	0.73
1:K:56:VAL:HG21	1:K:79:ILE:HG22	1.70	0.73
3:N:1356:TYR:CD1	3:N:1363:LEU:HD21	2.23	0.73
5:P:362:SER:O	5:P:366:ALA:HB3	1.88	0.73
3:D:225:LEU:HD12	3:D:440:VAL:HG21	1.70	0.73
3:D:619:LEU:HG	3:D:619:LEU:O	1.88	0.73
2:M:516:ARG:CZ	3:N:1068:LEU:HD13	2.18	0.73
3:N:385:VAL:HB	3:N:387:LEU:HD11	1.70	0.73
5:P:79:ASP:HB3	5:P:80:PRO:HD3	1.68	0.73
2:C:884:GLN:HG2	2:C:885:ILE:HD13	1.70	0.73
3:D:1340:GLY:O	3:D:1343:ALA:HB3	1.87	0.73
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.70	0.73
2:C:183:SER:HB2	2:C:190:LYS:HD3	1.68	0.73
2:C:682:TYR:CD1	3:D:635:PRO:HG2	2.24	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:869:VAL:HG22	2:C:870:ILE:H	1.54	0.73
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.03	0.73
3:D:601:ARG:HD3	3:D:613:ARG:NH2	2.03	0.73
3:D:616:GLN:CA	3:D:619:LEU:HB3	2.18	0.73
3:D:775:GLY:HA3	3:D:1145:TYR:HE1	1.52	0.73
3:D:1376:MET:O	3:D:1378:TYR:N	2.18	0.73
2:M:838:LYS:HD3	2:M:846:LYS:HZ1	1.54	0.73
3:N:133:ILE:HG23	3:N:456:MET:SD	2.27	0.73
2:C:207:LEU:HD22	2:C:221:LEU:HD21	1.71	0.73
2:C:738:ASP:HB2	2:C:744:ARG:HB3	1.71	0.73
3:N:423:ASP:H	5:P:178:ARG:HH12	1.35	0.73
3:N:473:LEU:HD12	3:N:476:GLU:OE1	1.89	0.73
3:N:764:LEU:CG	3:N:765:SER:H	2.00	0.73
3:N:1116:ASN:HD22	3:N:1116:ASN:N	1.85	0.73
5:P:88:ILE:HD11	5:P:193:ARG:HB2	1.68	0.73
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.69	0.73
1:B:188:GLN:HG3	1:B:189:ARG:HD2	1.71	0.73
2:C:235:LEU:O	2:C:239:PHE:HB2	1.88	0.73
2:C:606:VAL:HG21	2:C:645:VAL:HG22	1.71	0.73
3:D:1130:ARG:HD2	3:D:1131:SER:H	1.54	0.73
5:F:287:THR:HG22	5:F:290:GLU:OE1	1.89	0.73
2:M:340:MET:C	2:M:340:MET:SD	2.71	0.73
3:N:215:TYR:OH	5:P:101:GLU:HB2	1.89	0.73
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.24	0.73
2:C:63:GLY:HA3	2:C:103:LYS:HG3	1.69	0.73
2:M:534:VAL:H	2:M:538:GLN:NE2	1.86	0.73
3:N:679:ARG:NH1	3:N:682:ASP:OD1	2.22	0.73
1:B:181:VAL:HG12	1:B:193:ASP:HB3	1.70	0.73
2:C:226:VAL:HG13	2:C:227:PHE:H	1.53	0.73
2:C:874:LEU:O	3:D:1029:ARG:HD2	1.89	0.73
2:C:1031:ARG:HD3	3:D:619:LEU:O	1.89	0.73
3:D:820:GLU:HB2	3:D:836:VAL:HG21	1.68	0.73
5:F:205:ARG:NE	5:F:251:ILE:HD13	2.03	0.73
5:F:234:LYS:HD2	5:F:236:SER:H	1.54	0.73
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.70	0.73
1:L:100:LEU:HD12	1:L:115:LEU:HD11	1.70	0.73
5:P:88:ILE:HD13	5:P:193:ARG:HH11	1.52	0.73
3:D:616:GLN:HA	3:D:619:LEU:CB	2.19	0.73
2:M:565:GLN:O	2:M:567:GLN:N	2.20	0.73
2:M:630:ARG:HH21	2:M:707:ARG:N	1.87	0.73
2:C:769:PRO:HG2	3:D:65:ARG:HH12	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:133:ILE:HG12	3:D:456:MET:HE3	1.70	0.73
3:D:423:ASP:OD1	5:F:175:HIS:CE1	2.42	0.73
3:D:598:ARG:NH1	5:F:320:PRO:HD3	2.04	0.73
3:D:1353:GLN:HB3	3:D:1357:ARG:CZ	2.19	0.73
4:E:51:LEU:HG	4:E:52:GLU:N	2.03	0.73
2:M:901:TYR:HE2	2:M:917:LEU:CD1	2.02	0.73
3:N:601:ARG:HG2	3:N:606:ILE:HG13	1.68	0.73
2:C:966:LEU:HD11	2:C:986:PRO:HG2	1.71	0.72
2:C:988:VAL:HG12	3:D:948:THR:OG1	1.88	0.72
3:D:679:ARG:HH22	3:D:681:ARG:CD	2.02	0.72
3:N:794:GLN:HE21	3:N:794:GLN:C	1.96	0.72
3:N:1066:THR:HG23	3:N:1069:GLU:HG3	1.71	0.72
5:P:416:ARG:NH1	5:P:419:ARG:HD2	2.04	0.72
2:C:593:ALA:HB1	2:C:659:PRO:CD	2.19	0.72
3:D:679:ARG:HH22	3:D:681:ARG:HE	1.37	0.72
3:D:918:ALA:O	3:D:922:LEU:HB2	1.89	0.72
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.70	0.72
3:N:228:ALA:O	3:N:231:VAL:HG22	1.88	0.72
3:N:515:GLU:HG3	3:N:515:GLU:O	1.89	0.72
2:C:98:LEU:HD12	2:C:113:VAL:HG21	1.68	0.72
2:C:188:LYS:C	2:C:188:LYS:HE2	2.14	0.72
3:D:783:ARG:HH21	3:D:1029:ARG:NH1	1.85	0.72
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.89	0.72
2:M:537:LYS:HA	2:M:905:ILE:HD11	1.69	0.72
5:P:234:LYS:HE3	5:P:236:SER:HB3	1.71	0.72
3:D:416:ALA:H	3:D:417:PRO:CD	2.02	0.72
3:D:1382:THR:O	3:D:1384:PRO:HD3	1.89	0.72
3:N:560:GLN:HE21	3:N:560:GLN:HA	1.53	0.72
3:N:1271:LYS:HZ1	3:N:1273:VAL:HA	1.55	0.72
1:A:5:LYS:HA	1:A:5:LYS:HE2	1.71	0.72
2:C:695:LEU:HD21	2:C:833:LEU:HB3	1.70	0.72
3:D:8:VAL:HG12	3:D:1434:TRP:HH2	1.53	0.72
3:D:783:ARG:NH2	3:D:1029:ARG:CZ	2.52	0.72
1:K:62:LEU:H	1:K:62:LEU:HD12	1.54	0.72
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.25	0.72
2:M:840:ALA:O	2:M:995:MET:HE3	1.88	0.72
3:N:675:ARG:HB3	3:N:675:ARG:HH11	1.54	0.72
5:P:181:GLU:O	5:P:184:ARG:HB3	1.88	0.72
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.72	0.72
3:D:185:VAL:HG12	3:D:191:LEU:HD21	1.72	0.72
3:D:367:ILE:HD13	3:D:368:VAL:H	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:826:PRO:HB2	3:D:829:VAL:HG22	1.71	0.72
3:D:1331:ASP:CB	3:D:1334:GLN:HE21	1.98	0.72
1:K:2:LEU:HA	1:K:6:LEU:CD2	2.20	0.72
2:M:95:TYR:CE2	2:M:114:PHE:HB3	2.25	0.72
2:M:575:GLN:HE21	2:M:900:ARG:HH22	1.36	0.72
2:M:640:ARG:HD3	2:M:642:ARG:HH22	1.52	0.72
3:N:35:ARG:HB3	3:N:35:ARG:HH11	1.54	0.72
3:N:175:VAL:HG13	3:N:217:LYS:CD	2.20	0.72
5:P:163:LEU:HB3	5:P:174:LEU:HD12	1.72	0.72
2:C:118:ILE:HD11	2:C:340:MET:HE1	1.71	0.72
2:C:605:LYS:HB3	2:C:610:ARG:NH1	2.04	0.72
2:C:966:LEU:HD21	2:C:986:PRO:CG	2.19	0.72
3:D:994:GLN:HE21	3:D:998:GLU:CG	2.02	0.72
5:F:128:ARG:HG2	5:F:132:ARG:HH12	1.54	0.72
2:M:1103:ASP:OD1	3:N:3:LYS:HB3	1.89	0.72
3:N:216:VAL:HG11	3:N:221:ALA:HA	1.72	0.72
2:C:1009:SER:HB2	3:D:651:GLU:O	1.90	0.72
3:D:387:LEU:CB	5:F:97:GLU:HG2	2.20	0.72
1:K:205:VAL:HG23	1:K:206:THR:N	2.05	0.72
3:N:736:PHE:O	3:N:737:ASN:C	2.29	0.72
5:P:181:GLU:CD	5:P:185:GLN:HE21	1.98	0.72
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	1.55	0.72
2:M:1008:ARG:NH1	2:M:1010:THR:HA	2.05	0.72
3:N:150:ARG:HH12	3:N:464:LEU:HD22	1.55	0.72
3:N:385:VAL:HG13	5:P:232:ARG:NH1	2.04	0.72
3:N:880:ILE:O	3:N:883:ALA:HB3	1.90	0.72
3:N:1087:ARG:HB3	3:N:1234:THR:HG23	1.72	0.72
1:A:18:ARG:HH12	1:A:88:ARG:HE	1.36	0.71
2:M:862:PRO:HA	2:M:975:TYR:HE1	1.54	0.71
2:M:1055:LEU:HD23	2:M:1055:LEU:H	1.53	0.71
3:N:673:ALA:O	3:N:676:MET:N	2.22	0.71
2:C:19:THR:HG21	2:C:124:ASP:O	1.91	0.71
2:C:497:ALA:HA	2:C:515:ALA:HA	1.71	0.71
2:C:587:VAL:HG11	2:C:666:LEU:HD22	1.72	0.71
2:C:905:ILE:HG23	2:C:906:PHE:N	2.05	0.71
3:D:1194:CYS:SG	3:D:1201:CYS:SG	2.88	0.71
5:F:77:THR:O	5:F:81:VAL:HG23	1.89	0.71
2:C:516:ARG:HH11	2:C:521:PRO:HB3	1.55	0.71
3:D:1149:LEU:HD23	3:D:1187:PRO:O	1.90	0.71
2:M:73:LEU:HD11	2:M:118:ILE:HD11	1.72	0.71
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:910:LYS:N	2:M:913:GLU:HG3	2.05	0.71
1:A:162:ILE:HG13	1:A:163:ASN:ND2	2.05	0.71
2:C:158:TYR:O	2:C:310:LEU:HD11	1.90	0.71
2:M:436:GLY:HA2	2:M:538:GLN:O	1.89	0.71
3:N:137:PRO:HD2	3:N:453:ASP:HB3	1.71	0.71
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.21	0.71
2:C:693:GLU:OE1	2:C:696:LYS:HD2	1.90	0.71
3:D:960:LYS:HG2	3:D:964:LEU:HD12	1.71	0.71
3:D:1101:VAL:HG12	3:D:1374:GLN:HB3	1.70	0.71
3:D:1346:ARG:NH1	3:D:1346:ARG:HA	2.05	0.71
1:K:65:PHE:HE2	2:M:830:LYS:HG3	1.55	0.71
2:M:749:VAL:HG11	2:M:755:LEU:CD2	2.20	0.71
3:N:569:ASN:O	3:N:572:ARG:HB3	1.90	0.71
3:N:840:LYS:HB2	3:N:840:LYS:NZ	2.05	0.71
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.71	0.71
3:D:177:ALA:C	3:D:199:LEU:HD13	2.14	0.71
2:M:838:LYS:CE	2:M:846:LYS:HZ1	2.04	0.71
2:M:1049:LEU:O	2:M:1053:LEU:HD23	1.89	0.71
2:C:349:ALA:O	2:C:353:ARG:HG3	1.91	0.71
2:C:731:GLU:HA	2:C:734:LEU:HD23	1.71	0.71
2:C:801:VAL:HG22	2:C:826:TYR:O	1.90	0.71
3:D:1341:PRO:O	3:D:1345:GLU:HG3	1.89	0.71
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.91	0.71
1:K:219:ARG:NH1	1:K:220:GLU:H	1.88	0.71
2:M:1043:TYR:C	2:M:1045:ALA:H	1.98	0.71
3:N:864:VAL:HG12	3:N:865:THR:H	1.56	0.71
3:N:1036:ARG:NH1	3:N:1036:ARG:HB3	2.05	0.71
3:N:1183:ILE:HG22	3:N:1184:GLN:N	2.06	0.71
1:B:201:THR:HG21	1:B:205:VAL:O	1.90	0.71
3:D:86:ARG:O	3:D:522:PRO:HD2	1.90	0.71
3:D:808:THR:HB	3:D:809:PRO:CD	2.17	0.71
1:K:203:GLY:O	1:K:204:SER:C	2.32	0.71
2:M:181:VAL:HG12	2:M:182:VAL:H	1.56	0.71
3:N:84:ILE:O	3:N:86:ARG:N	2.23	0.71
5:P:191:ASN:O	5:P:220:LEU:HD22	1.91	0.71
1:B:185:ARG:HB2	1:B:190:THR:HG23	1.72	0.71
2:C:516:ARG:NH1	3:D:1068:LEU:HD22	2.06	0.71
2:C:593:ALA:HB1	2:C:659:PRO:HD3	1.73	0.71
2:C:785:VAL:HG22	2:C:786:LYS:H	1.56	0.71
2:C:1105:LYS:O	2:C:1107:ASN:N	2.24	0.71
1:K:13:VAL:HG12	1:K:14:ARG:N	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:219:ARG:NH2	1:K:220:GLU:HA	2.06	0.71
2:M:943:VAL:HG13	2:M:985:GLY:H	1.55	0.71
2:M:953:VAL:HA	2:M:965:GLU:CD	2.15	0.71
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.73	0.71
3:N:1260:ILE:C	3:N:1262:LEU:H	1.99	0.71
3:N:1479:ASP:OD1	3:N:1482:ARG:HD3	1.90	0.71
3:D:1103:HIS:CD2	3:D:1463:LYS:H	2.09	0.71
5:F:88:ILE:HG21	5:F:193:ARG:HD3	1.73	0.71
3:N:1124:GLN:OE1	3:N:1135:ARG:HG3	1.91	0.71
3:N:1364:HIS:ND1	3:N:1365:ASP:N	2.39	0.71
2:C:172:ILE:H	2:C:172:ILE:HD12	1.55	0.70
2:C:332:ARG:HH21	2:C:464:LEU:HD11	1.56	0.70
2:C:549:PHE:HE2	2:C:887:GLU:N	1.89	0.70
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.25	0.70
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.73	0.70
2:M:269:LEU:CA	2:M:288:ARG:HE	2.03	0.70
2:M:1066:ALA:O	2:M:1069:ALA:HB3	1.91	0.70
2:C:957:LYS:HD2	2:C:965:GLU:OE2	1.91	0.70
3:N:590:PRO:O	3:N:600:LEU:HD21	1.91	0.70
3:N:983:LEU:HA	3:N:987:GLU:OE2	1.90	0.70
1:A:154:GLU:H	1:A:154:GLU:CD	1.97	0.70
2:C:368:THR:HB	2:C:369:PRO:HD3	1.74	0.70
2:M:760:SER:O	2:M:785:VAL:HG13	1.90	0.70
1:B:87:VAL:HG12	1:B:122:ILE:HG12	1.72	0.70
2:C:979:THR:C	2:C:981:GLU:H	1.99	0.70
3:D:25:GLU:OE1	3:D:27:GLU:HB3	1.91	0.70
3:D:387:LEU:HB3	5:F:97:GLU:HG2	1.73	0.70
3:D:1475:GLY:C	3:D:1477:GLY:H	1.98	0.70
3:N:171:LEU:HB3	3:N:390:PRO:HA	1.74	0.70
3:N:387:LEU:CD2	5:P:97:GLU:HB2	2.21	0.70
3:N:546:ARG:HH12	3:N:550:ARG:HH22	1.39	0.70
2:C:893:ALA:O	2:C:897:LEU:HB2	1.92	0.70
2:C:1059:ASP:OD1	2:C:1080:SER:HB2	1.90	0.70
3:D:644:LEU:O	3:D:721:VAL:HG22	1.91	0.70
1:K:1:MET:SD	1:K:5:LYS:HB3	2.30	0.70
2:M:537:LYS:HA	2:M:905:ILE:CD1	2.22	0.70
3:N:1122:LEU:HG	3:N:1140:ILE:HD13	1.72	0.70
3:D:952:ASP:HA	3:D:1062:ARG:HH22	1.56	0.70
5:F:142:ARG:HH12	5:F:150:THR:HG21	1.56	0.70
2:M:176:VAL:HG12	2:M:182:VAL:HG22	1.73	0.70
2:M:469:THR:O	2:M:485:TYR:HA	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:195:LEU:HG	2:C:238:LEU:HD12	1.72	0.70
5:F:271:LEU:O	5:F:271:LEU:HD13	1.91	0.70
2:M:198:ARG:HH22	2:M:203:ASP:HB3	1.57	0.70
2:M:953:VAL:HA	2:M:965:GLU:OE1	1.92	0.70
3:N:478:LEU:CD2	3:N:1388:ARG:HH12	2.05	0.70
3:N:1165:TYR:OH	3:N:1203:LYS:HA	1.92	0.70
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.73	0.70
2:C:1096:ALA:HB3	3:D:101:HIS:ND1	2.07	0.70
3:D:87:ARG:HG3	3:D:88:TYR:CD2	2.27	0.70
3:D:969:ARG:O	3:D:972:LEU:HB3	1.92	0.70
2:M:841:ASN:CG	2:M:843:HIS:H	2.00	0.70
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.06	0.70
2:C:829:GLN:OE1	2:C:831:ARG:NH1	2.25	0.70
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.74	0.70
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.73	0.70
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.74	0.70
1:K:1:MET:O	1:K:6:LEU:HD22	1.92	0.70
2:M:1071:ILE:CG2	3:N:670:VAL:HG21	2.21	0.70
3:N:40:GLU:HG3	3:N:41:ARG:H	1.54	0.70
3:N:1459:LEU:HD11	3:N:1468:LEU:HD13	1.73	0.70
1:A:34:VAL:HB	1:B:42:ARG:NH2	2.06	0.70
1:B:189:ARG:HH11	1:B:189:ARG:HG3	1.57	0.70
2:C:877:PRO:HG3	3:D:1023:MET:CE	2.22	0.70
3:D:907:GLU:HG2	3:D:908:LYS:H	1.56	0.70
3:D:1103:HIS:HD2	3:D:1462:LEU:N	1.89	0.70
2:M:568:ALA:CB	2:M:668:LEU:HB3	2.21	0.70
3:N:1069:GLU:O	3:N:1073:SER:HB2	1.91	0.70
3:N:1106:VAL:HG13	3:N:1219:GLU:O	1.91	0.70
3:N:1314:LYS:H	3:N:1314:LYS:HD3	1.56	0.70
2:C:690:ILE:HB	2:C:852:ILE:HD13	1.73	0.69
2:C:807:ARG:HH21	2:C:808:ARG:HB2	1.57	0.69
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.74	0.69
3:D:1310:ARG:HE	3:D:1327:ARG:HB3	1.57	0.69
3:D:1312:LEU:CD1	3:D:1327:ARG:HG3	2.22	0.69
2:M:380:ALA:O	2:M:384:GLU:HB2	1.92	0.69
3:N:115:LEU:HD13	3:N:499:VAL:HG22	1.73	0.69
3:N:138:LYS:N	3:N:138:LYS:HD2	2.06	0.69
3:N:834:THR:OG1	3:N:839:LEU:HD21	1.92	0.69
3:N:984:THR:HG22	3:N:987:GLU:CG	2.22	0.69
5:P:402:ASN:HB3	5:P:406:ARG:NH2	2.07	0.69
2:C:701:THR:HG21	2:C:830:LYS:HD2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:951:ILE:HG23	3:D:1062:ARG:HH21	1.57	0.69
3:D:1290:LEU:HD23	3:D:1291:SER:H	1.56	0.69
5:F:234:LYS:HD2	5:F:236:SER:N	2.06	0.69
1:K:106:PRO:HD3	1:K:134:GLU:HA	1.74	0.69
2:M:486:MET:HE3	2:M:491:GLU:HA	1.73	0.69
2:M:486:MET:HE3	2:M:491:GLU:CA	2.22	0.69
3:N:416:ALA:HB3	3:N:417:PRO:HD3	1.73	0.69
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.21	0.69
1:A:218:LEU:O	1:A:222:LEU:HD23	1.91	0.69
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.75	0.69
2:C:5:ARG:HB3	2:C:902:ILE:HB	1.74	0.69
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.92	0.69
2:C:1115:LEU:HD22	3:D:88:TYR:CD1	2.28	0.69
3:D:382:GLU:O	3:D:384:VAL:HG23	1.92	0.69
3:D:841:TYR:HB3	3:D:843:PHE:CE2	2.27	0.69
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.07	0.69
4:E:40:LEU:HD22	4:E:45:ARG:NH1	2.06	0.69
3:N:699:VAL:H	3:N:756:GLN:HE21	1.38	0.69
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.74	0.69
4:O:51:LEU:HG	4:O:52:GLU:N	2.07	0.69
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.58	0.69
3:D:228:ALA:O	3:D:231:VAL:HG22	1.92	0.69
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.56	0.69
3:D:714:GLN:HE22	3:D:735:ALA:HB1	1.57	0.69
3:D:910:SER:O	3:D:913:ASP:HB2	1.92	0.69
3:D:1139:ASP:OD2	3:D:1357:ARG:HD3	1.92	0.69
2:M:722:ILE:HD12	2:M:823:VAL:HG21	1.75	0.69
3:N:423:ASP:OD2	5:P:178:ARG:HG3	1.92	0.69
3:N:1155:VAL:HG22	3:N:1183:ILE:HD11	1.72	0.69
2:C:42:VAL:HG12	2:C:43:GLY:H	1.57	0.69
2:C:265:ARG:HG3	2:C:288:ARG:HG3	1.75	0.69
2:C:420:ARG:HD2	2:C:420:ARG:N	2.05	0.69
3:D:205:TYR:HA	3:D:393:ILE:HD13	1.75	0.69
3:D:457:GLY:HA3	3:D:568:ARG:HH12	1.55	0.69
4:E:48:MET:HG2	4:E:49:GLN:H	1.57	0.69
1:L:111:ALA:HB2	1:L:127:LEU:HB3	1.75	0.69
3:N:486:ARG:O	3:N:489:ARG:HG2	1.92	0.69
5:P:151:LEU:HB2	5:P:155:THR:OG1	1.92	0.69
2:C:49:ARG:HH11	2:C:49:ARG:CB	2.02	0.69
2:C:139:GLN:HA	2:C:411:SER:O	1.92	0.69
2:C:622:GLU:O	2:C:624:PRO:HD3	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:766:GLU:CD	3:D:54:LYS:HD2	2.18	0.69
2:C:1102:LEU:HD23	2:C:1106:ASP:HA	1.75	0.69
3:D:916:TYR:C	3:D:916:TYR:CD2	2.71	0.69
5:F:209:PHE:O	5:F:213:ILE:HG13	1.93	0.69
5:F:363:GLU:O	5:F:367:MET:HG2	1.92	0.69
1:L:44:LEU:HB3	1:L:177:VAL:HG21	1.75	0.69
3:N:461:ILE:O	3:N:465:LEU:HD12	1.91	0.69
2:C:86:LYS:HG3	2:C:813:VAL:HG12	1.75	0.69
2:C:612:VAL:HA	2:C:621:VAL:O	1.93	0.69
2:C:848:VAL:HB	3:D:740:PHE:O	1.92	0.69
3:D:1433:SER:HB2	3:D:1457:ASP:OD2	1.92	0.69
1:L:206:THR:HG22	1:L:209:GLU:CD	2.16	0.69
2:M:137:VAL:O	2:M:391:LEU:HG	1.92	0.69
3:N:32:ILE:HG22	3:N:33:ASN:H	1.56	0.69
3:N:105:VAL:HG22	3:N:112:ILE:HG12	1.73	0.69
3:N:604:THR:C	3:N:606:ILE:H	1.98	0.69
3:N:1258:ARG:HG3	3:N:1258:ARG:NH1	2.05	0.69
1:A:55:SER:HB2	1:A:158:ILE:HG23	1.75	0.69
2:C:326:ASP:HA	2:C:331:ARG:HD2	1.74	0.69
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.75	0.69
3:D:474:GLU:HG3	3:D:496:LEU:HD11	1.73	0.69
3:D:1346:ARG:NH2	3:D:1369:GLU:OE2	2.26	0.69
1:K:38:ASN:O	1:K:39:PRO:C	2.34	0.69
1:K:219:ARG:HH22	1:K:220:GLU:HG3	1.58	0.69
2:M:253:ALA:O	2:M:256:TYR:HB2	1.93	0.69
2:M:692:GLU:O	2:M:696:LYS:HG3	1.93	0.69
2:M:1003:ASP:O	2:M:1005:MET:N	2.26	0.69
3:N:96:ALA:HB1	3:N:554:LEU:HD12	1.73	0.69
3:N:225:LEU:HD22	3:N:440:VAL:HG21	1.75	0.69
3:N:1277:ILE:HG22	3:N:1278:ASP:N	2.07	0.69
3:D:1155:VAL:CG1	3:D:1183:ILE:HD11	2.22	0.69
4:E:33:HIS:HB2	4:E:37:ASN:HD21	1.58	0.69
2:M:432:ARG:NH2	3:N:1047:LYS:HZ2	1.90	0.69
2:M:676:ILE:O	2:M:676:ILE:HG23	1.92	0.69
2:M:946:ARG:NH1	2:M:984:GLU:OE2	2.26	0.69
3:N:135:LEU:HD21	3:N:452:ILE:HD11	1.74	0.69
3:N:546:ARG:NH1	3:N:550:ARG:NH2	2.39	0.69
3:N:1256:LEU:HB3	3:N:1257:PRO:HD3	1.75	0.69
1:B:201:THR:HG22	1:B:203:GLY:H	1.58	0.69
3:D:368:VAL:HG12	3:D:369:ALA:N	2.08	0.69
3:D:1147:ARG:NH1	3:D:1190:SER:HB2	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:300:ASP:OD2	5:F:302:LYS:HB3	1.93	0.69
1:L:74:ASP:O	1:L:78:ILE:HG13	1.93	0.69
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.56	0.69
3:N:699:VAL:HG12	3:N:717:GLN:HG2	1.74	0.69
3:N:794:GLN:NE2	3:N:795:VAL:N	2.41	0.69
3:N:1047:LYS:HD2	3:N:1051:GLU:O	1.93	0.69
2:C:290:LEU:HD23	2:C:290:LEU:H	1.58	0.68
2:C:636:ALA:O	2:C:637:LEU:HD23	1.93	0.68
3:D:245:LEU:HD21	3:D:249:TYR:HB2	1.74	0.68
3:D:711:LEU:O	3:D:714:GLN:NE2	2.26	0.68
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.74	0.68
2:M:86:LYS:HB3	2:M:88:LEU:HG	1.74	0.68
2:M:518:LYS:HG3	2:M:518:LYS:O	1.92	0.68
2:M:580:MET:HE3	2:M:902:ILE:CD1	2.23	0.68
3:N:15:PRO:CB	3:N:19:ARG:HH12	2.07	0.68
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.18	0.68
1:A:14:ARG:O	1:A:21:GLY:HA2	1.92	0.68
2:C:1102:LEU:HD23	2:C:1106:ASP:CA	2.23	0.68
3:D:179:VAL:HG11	3:D:217:LYS:HZ1	1.58	0.68
1:L:201:THR:HG22	1:L:203:GLY:H	1.56	0.68
2:M:252:LYS:H	2:M:252:LYS:HD2	1.56	0.68
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.74	0.68
3:N:218:LYS:HB3	3:N:373:PRO:HA	1.75	0.68
4:O:40:LEU:HB2	4:O:45:ARG:CD	2.23	0.68
1:A:50:GLY:O	1:A:51:THR:HG23	1.94	0.68
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.28	0.68
2:C:1010:THR:HG22	2:C:1011:GLY:N	2.07	0.68
3:D:244:GLU:OE1	3:D:366:LYS:HG3	1.93	0.68
3:D:1175:ILE:O	3:D:1179:GLU:HG3	1.94	0.68
4:E:17:TYR:O	4:E:21:VAL:HG23	1.93	0.68
2:M:285:LEU:HD13	2:M:302:VAL:HG23	1.76	0.68
3:N:586:ARG:O	3:N:587:ARG:HG2	1.92	0.68
2:C:333:ILE:CD1	2:C:467:ILE:HD11	2.24	0.68
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.74	0.68
2:C:576:ALA:H	2:C:662:GLU:CD	2.00	0.68
3:D:601:ARG:HH22	3:D:611:GLN:HB2	1.58	0.68
3:D:807:ALA:HB2	3:D:833:GLU:HB3	1.75	0.68
3:D:1344:VAL:O	3:D:1348:LEU:HD13	1.93	0.68
1:K:59:GLU:HG3	1:K:60:ASP:H	1.58	0.68
1:L:26:GLU:HG2	1:L:27:PRO:HA	1.75	0.68
2:M:1092:LEU:O	2:M:1095:LEU:O	2.12	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:34:TYR:HE2	5:P:260:ILE:HG13	1.58	0.68
3:N:224:ARG:HD2	3:N:224:ARG:O	1.93	0.68
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.07	0.68
3:N:660:LYS:HG2	3:N:694:VAL:HG22	1.74	0.68
3:N:769:LEU:HD23	3:N:927:THR:HG22	1.75	0.68
3:N:1223:ILE:O	3:N:1227:GLN:HG3	1.94	0.68
1:B:19:GLU:HG3	1:B:201:THR:O	1.94	0.68
2:C:129:ILE:HG12	2:C:386:PHE:O	1.93	0.68
3:D:81:THR:O	3:D:82:LYS:O	2.12	0.68
3:D:1076:GLY:CA	3:D:1079:LYS:HG2	2.22	0.68
2:M:139:GLN:O	2:M:334:ARG:HG2	1.92	0.68
2:M:964:LYS:O	2:M:968:LEU:HG	1.94	0.68
2:M:1004:LYS:HE3	2:M:1027:PHE:HZ	1.58	0.68
3:N:444:VAL:O	3:N:446:VAL:HG23	1.94	0.68
3:N:890:VAL:HG12	3:N:926:LYS:HG2	1.75	0.68
5:P:135:ILE:HD11	5:P:178:ARG:HD2	1.74	0.68
5:P:222:ARG:HD2	5:P:242:TRP:HE3	1.59	0.68
1:A:30:ARG:HG3	2:C:938:LYS:NZ	2.08	0.68
1:A:88:ARG:HH12	1:A:90:LEU:CD2	2.07	0.68
3:D:247:GLU:H	3:D:248:PRO:HD2	1.59	0.68
3:D:539:ASP:HB2	5:F:318:GLU:OE2	1.94	0.68
3:D:1137:ARG:O	3:D:1141:GLU:HG3	1.94	0.68
2:M:1047:HIS:O	2:M:1050:GLN:N	2.27	0.68
2:C:1024:LYS:NZ	2:C:1024:LYS:HB2	2.09	0.68
3:D:172:PRO:HD2	3:D:389:GLU:O	1.94	0.68
5:F:181:GLU:OE2	5:F:184:ARG:HD3	1.94	0.68
5:F:405:LEU:O	5:F:408:LEU:HB3	1.92	0.68
2:M:193:LEU:HG	2:M:307:LEU:HD22	1.76	0.68
2:M:1004:LYS:O	2:M:1005:MET:C	2.37	0.68
2:M:1051:GLU:OE2	3:N:752:SER:HB3	1.94	0.68
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.76	0.68
3:N:1144:LEU:HD21	3:N:1186:VAL:HG11	1.74	0.68
3:N:1185:GLU:O	3:N:1186:VAL:HG23	1.93	0.68
3:N:1412:LYS:C	3:N:1414:PRO:HD3	2.19	0.68
1:B:36:LEU:O	1:B:39:PRO:HD2	1.94	0.68
3:D:890:VAL:HG12	3:D:926:LYS:HG2	1.75	0.68
3:D:1140:ILE:O	3:D:1141:GLU:C	2.37	0.68
1:L:56:VAL:HG21	1:L:79:ILE:HG22	1.76	0.68
3:N:794:GLN:C	3:N:794:GLN:NE2	2.52	0.68
3:N:1320:GLU:CG	3:N:1323:GLN:HE21	2.04	0.68
5:P:389:PHE:HD2	5:P:397:ILE:HD11	1.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:77:GLU:HB2	3:D:872:ARG:HH22	1.58	0.68
2:C:574:ALA:O	2:C:575:GLN:HG3	1.94	0.68
2:C:724:ARG:HB2	2:C:740:GLU:HA	1.76	0.68
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.76	0.68
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.76	0.68
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.75	0.68
2:M:564:MET:HE2	2:M:997:LEU:HD11	1.75	0.68
2:M:640:ARG:HB3	2:M:640:ARG:HH11	1.58	0.68
3:N:172:PRO:HB3	3:N:178:LEU:HD13	1.76	0.68
3:N:422:ALA:HB1	5:P:178:ARG:HH22	1.58	0.68
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.75	0.68
1:A:13:VAL:HG12	1:A:14:ARG:N	2.09	0.68
1:B:7:LYS:HE3	1:B:186:LEU:HD22	1.73	0.68
3:D:1422:MET:HE2	3:D:1427:SER:HA	1.76	0.68
2:M:690:ILE:O	2:M:852:ILE:HA	1.94	0.68
3:N:658:LEU:HD11	3:N:674:ARG:HH11	1.58	0.68
3:N:1078:ARG:NH1	3:N:1078:ARG:HG3	2.06	0.68
1:A:153:ALA:HA	1:A:156:HIS:CE1	2.29	0.67
2:C:490:GLU:HG3	2:C:493:ARG:HD2	1.75	0.67
3:D:704:ARG:CG	3:D:705:ALA:N	2.56	0.67
3:D:899:LEU:H	3:D:899:LEU:HD13	1.59	0.67
4:E:45:ARG:HB3	4:E:46:PRO:HD2	1.75	0.67
1:K:27:PRO:HG3	1:K:186:LEU:HD22	1.75	0.67
2:M:111:ASP:HB3	2:M:112:GLU:OE2	1.93	0.67
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.74	0.67
3:N:12:LEU:H	3:N:507:ASN:HD21	1.41	0.67
3:N:1135:ARG:O	3:N:1136:LYS:O	2.12	0.67
5:P:94:LEU:HB2	5:P:98:GLU:OE1	1.94	0.67
2:C:158:TYR:HE1	2:C:314:THR:HA	1.59	0.67
2:C:227:PHE:HA	2:C:230:ARG:NE	2.09	0.67
3:D:470:LEU:HD12	3:D:508:ARG:HH12	1.57	0.67
3:D:637:LEU:HD11	3:D:642:CYS:CA	2.23	0.67
3:D:659:LYS:HE2	3:D:663:GLU:CD	2.19	0.67
3:D:955:VAL:HG11	3:D:1015:TYR:CE2	2.28	0.67
3:D:1092:GLY:O	3:D:1096:ARG:HB2	1.93	0.67
2:M:215:GLY:O	2:M:218:VAL:HG23	1.94	0.67
2:M:1091:GLU:O	2:M:1094:ALA:HB3	1.94	0.67
3:N:139:GLY:C	3:N:147:VAL:HG22	2.20	0.67
3:N:1078:ARG:HG3	3:N:1078:ARG:HH11	1.58	0.67
3:N:1227:GLN:O	3:N:1229:ILE:N	2.22	0.67
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:670:GLN:HG2	2:C:699:PHE:CE2	2.30	0.67
2:C:802:ARG:NH1	2:C:804:VAL:HG22	2.10	0.67
1:K:73:GLU:OE1	1:K:130:ALA:HA	1.94	0.67
2:M:30:LEU:O	2:M:30:LEU:HD12	1.94	0.67
3:N:39:PRO:HB3	3:N:45:PHE:O	1.94	0.67
3:N:654:LYS:O	3:N:657:LEU:N	2.27	0.67
4:O:23:VAL:HG21	4:O:65:MET:HG2	1.75	0.67
5:P:376:ILE:HG22	5:P:377:ASP:H	1.60	0.67
2:C:281:LEU:HD23	2:C:281:LEU:H	1.59	0.67
2:C:829:GLN:CD	2:C:831:ARG:HH11	2.03	0.67
2:C:1085:PHE:O	2:C:1088:LEU:N	2.28	0.67
3:D:10:ILE:HD11	3:D:1434:TRP:NE1	2.08	0.67
3:D:400:VAL:C	3:D:402:PRO:HD3	2.19	0.67
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.60	0.67
3:N:1031:ASN:HB3	3:N:1034:GLN:CB	2.23	0.67
4:O:39:VAL:HG22	4:O:67:GLU:OE2	1.95	0.67
5:P:396:ARG:HA	5:P:399:GLN:HB2	1.77	0.67
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.60	0.67
2:C:89:THR:O	2:C:91:GLN:HG3	1.93	0.67
2:C:139:GLN:OE1	2:C:415:PRO:HD3	1.95	0.67
2:C:329:GLY:HA2	2:C:488:ALA:HB3	1.77	0.67
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.76	0.67
3:D:994:GLN:HG3	3:D:998:GLU:OE1	1.94	0.67
2:M:352:ALA:O	2:M:356:ARG:HG3	1.95	0.67
3:N:232:GLU:OE2	3:N:234:GLU:HB2	1.93	0.67
1:A:153:ALA:HB2	1:A:167:VAL:C	2.18	0.67
1:A:195:LEU:HD12	1:A:196:THR:H	1.58	0.67
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.76	0.67
3:D:231:VAL:HA	3:D:378:ILE:CD1	2.24	0.67
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ1	1.60	0.67
3:D:1310:ARG:HG3	3:D:1327:ARG:HB2	1.74	0.67
3:D:1403:LEU:O	3:D:1407:LEU:HB2	1.95	0.67
5:F:319:THR:O	5:F:329:TYR:HB2	1.94	0.67
1:K:143:ARG:CD	1:K:158:ILE:HG21	2.25	0.67
1:L:117:VAL:HB	1:L:120:VAL:HB	1.75	0.67
3:N:486:ARG:HA	3:N:489:ARG:CD	2.25	0.67
3:N:1041:LEU:HD12	3:N:1058:ARG:HA	1.76	0.67
3:N:1262:LEU:HD23	3:N:1352:ILE:HG13	1.75	0.67
2:C:250:ARG:CZ	2:C:253:ALA:HB1	2.24	0.67
2:C:1094:ALA:HB1	3:D:603:LEU:HD22	1.76	0.67
3:D:789:LEU:HD12	3:D:911:LEU:CD2	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:172:ILE:HG23	2:M:184:MET:HE3	1.77	0.67
2:M:897:LEU:HB3	2:M:899:GLN:NE2	2.04	0.67
2:M:1051:GLU:CD	3:N:752:SER:H	2.02	0.67
3:N:609:GLY:CA	3:N:613:ARG:HB3	2.24	0.67
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.30	0.67
2:C:115:LEU:HA	2:C:375:SER:OG	1.93	0.67
3:D:138:LYS:HD2	3:D:138:LYS:N	2.03	0.67
3:D:1493:LYS:O	3:D:1497:GLU:HG2	1.95	0.67
2:M:441:VAL:O	2:M:559:LEU:HD13	1.95	0.67
2:M:458:TYR:HB3	2:M:470:PRO:HG2	1.77	0.67
2:M:834:GLN:O	2:M:837:ASP:HB2	1.95	0.67
2:C:9:ILE:HG13	2:C:9:ILE:O	1.95	0.67
2:C:443:THR:HG21	2:C:450:GLY:N	2.01	0.67
3:D:1171:VAL:O	3:D:1175:ILE:HG13	1.95	0.67
5:F:200:LYS:HD2	5:F:209:PHE:HZ	1.59	0.67
5:F:287:THR:CG2	5:F:289:GLU:HB2	2.25	0.67
3:N:569:ASN:HD21	5:P:80:PRO:HG3	1.60	0.67
3:N:1437:ALA:O	3:N:1446:VAL:HG21	1.93	0.67
5:P:137:GLY:HA3	5:P:141:VAL:HG21	1.75	0.67
2:C:300:ASP:C	2:C:302:VAL:H	2.02	0.67
3:D:194:GLY:N	3:D:206:ARG:HA	2.10	0.67
3:D:1074:SER:O	3:D:1077:ALA:N	2.27	0.67
3:D:1364:HIS:ND1	3:D:1366:LYS:HG3	2.10	0.67
3:N:70:GLY:C	3:N:71:LYS:HD2	2.19	0.67
3:N:218:LYS:HB2	3:N:218:LYS:NZ	2.10	0.67
3:N:1031:ASN:CB	3:N:1034:GLN:HB2	2.22	0.67
3:N:1148:VAL:CG1	3:N:1189:ARG:HG3	2.25	0.67
2:C:444:PRO:O	2:C:449:ILE:HG12	1.96	0.66
2:C:480:THR:HG22	2:C:482:GLU:N	2.06	0.66
2:C:1005:MET:HE1	3:D:645:PRO:CG	2.25	0.66
3:D:827:ILE:HG23	3:D:837:GLY:HA3	1.77	0.66
2:M:682:TYR:CE1	2:M:851:LYS:HD2	2.30	0.66
2:C:129:ILE:HG22	2:C:130:ASN:CG	2.20	0.66
3:D:396:VAL:HG13	3:D:446:VAL:C	2.21	0.66
3:D:553:ARG:NH1	5:F:211:ASP:HA	2.07	0.66
5:F:200:LYS:HD2	5:F:209:PHE:CZ	2.29	0.66
2:M:397:GLU:HG3	2:M:632:ASN:H	1.60	0.66
3:N:481:MET:O	3:N:489:ARG:HB2	1.95	0.66
3:N:764:LEU:HG	3:N:765:SER:N	2.08	0.66
3:N:1486:VAL:HG22	4:O:75:PHE:HB3	1.76	0.66
1:A:158:ILE:HD13	1:A:158:ILE:C	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:25:LYS:HA	4:E:28:GLN:CD	2.20	0.66
1:K:18:ARG:HH22	1:K:88:ARG:NH2	1.91	0.66
3:N:646:LYS:HA	3:N:720:LEU:HD22	1.77	0.66
3:N:709:HIS:CD2	3:N:711:LEU:HB2	2.31	0.66
3:N:1295:GLU:CB	3:N:1300:SER:HA	2.25	0.66
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.20	0.66
3:D:1225:ALA:O	3:D:1228:SER:OG	2.13	0.66
3:D:1424:VAL:HG13	3:D:1425:THR:N	2.10	0.66
5:F:151:LEU:HG	5:F:155:THR:OG1	1.95	0.66
1:L:133:GLU:CG	1:L:134:GLU:H	2.07	0.66
2:M:170:PRO:HD2	2:M:263:ASP:HB3	1.78	0.66
2:M:838:LYS:O	2:M:838:LYS:HG3	1.94	0.66
3:N:1171:VAL:O	3:N:1175:ILE:HG13	1.96	0.66
3:N:1492:LEU:O	3:N:1492:LEU:HD13	1.95	0.66
2:C:19:THR:HG22	2:C:23:VAL:HG23	1.77	0.66
3:D:1154:GLU:HG3	3:D:1159:ARG:NH1	2.10	0.66
3:D:1412:LYS:HG3	3:D:1414:PRO:HD3	1.78	0.66
2:M:579:VAL:O	2:M:579:VAL:HG22	1.95	0.66
2:M:1071:ILE:O	3:N:659:LYS:HD3	1.96	0.66
3:N:478:LEU:HD23	3:N:1388:ARG:HH12	1.59	0.66
3:N:845:ASN:N	3:N:848:GLU:HG3	2.04	0.66
5:P:368:VAL:O	5:P:371:LEU:HB2	1.96	0.66
1:A:41:ARG:HA	1:A:177:VAL:HG11	1.77	0.66
1:A:51:THR:HG22	1:A:146:ARG:HA	1.78	0.66
2:C:552:HIS:CE1	3:D:1062:ARG:O	2.49	0.66
3:D:135:LEU:HD11	3:D:452:ILE:HD11	1.78	0.66
3:D:377:VAL:CG1	3:D:382:GLU:HG2	2.25	0.66
3:D:679:ARG:NH2	3:D:681:ARG:HG2	2.11	0.66
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.78	0.66
3:D:897:TRP:CH2	3:D:902:LEU:HD21	2.31	0.66
3:D:1078:ARG:C	3:D:1080:GLY:N	2.52	0.66
5:F:367:MET:O	5:F:371:LEU:HG	1.95	0.66
5:F:393:THR:O	5:F:397:ILE:HG13	1.96	0.66
1:K:219:ARG:HB3	1:K:219:ARG:NH1	2.11	0.66
3:N:777:PRO:HG2	3:N:915:VAL:HB	1.76	0.66
3:N:1258:ARG:O	3:N:1262:LEU:HD13	1.95	0.66
2:C:435:TYR:OH	2:C:498:GLN:NE2	2.29	0.66
2:M:1032:PHE:HB2	3:N:623:VAL:HG23	1.78	0.66
3:N:976:GLN:HA	3:N:979:GLU:OE1	1.96	0.66
3:N:1087:ARG:CZ	3:N:1238:MET:HG3	2.25	0.66
5:P:205:ARG:HB3	5:P:251:ILE:HD13	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:290:LEU:HD22	2:C:302:VAL:HG21	1.78	0.66
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.78	0.66
3:D:225:LEU:H	3:D:225:LEU:HD22	1.61	0.66
3:D:404:GLU:HB3	3:D:414:ARG:NE	2.10	0.66
3:D:756:GLN:O	3:D:760:ARG:HG2	1.96	0.66
3:D:907:GLU:HG3	3:D:1025:GLN:O	1.95	0.66
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	1.78	0.66
5:F:352:GLU:O	5:F:356:LYS:HG3	1.96	0.66
3:N:553:ARG:HD3	5:P:214:GLN:HB3	1.77	0.66
3:N:955:VAL:HB	3:N:1011:PHE:CE1	2.30	0.66
3:N:1015:TYR:O	3:N:1017:PHE:N	2.28	0.66
2:C:480:THR:HG22	2:C:481:ASP:N	2.10	0.66
2:C:572:ILE:HD13	2:C:701:THR:HB	1.78	0.66
2:C:988:VAL:HG11	3:D:949:ILE:O	1.96	0.66
2:C:1014:SER:OG	5:F:331:ASP:HA	1.95	0.66
3:D:546:ARG:CZ	3:D:550:ARG:HH22	2.09	0.66
3:D:694:VAL:O	3:D:694:VAL:HG12	1.94	0.66
3:D:715:ALA:O	3:D:716:PHE:CG	2.49	0.66
3:D:1192:LEU:HD22	3:D:1345:GLU:HB3	1.76	0.66
1:K:176:ARG:NH2	2:M:865:THR:HB	2.11	0.66
2:M:578:VAL:N	2:M:671:ASN:HD21	1.94	0.66
2:M:700:TYR:CB	2:M:833:LEU:HD22	2.26	0.66
3:N:426:LYS:HB3	5:P:134:LYS:O	1.96	0.66
2:C:17:PRO:HA	2:C:586:ARG:HH12	1.61	0.66
2:C:691:SER:HB3	2:C:868:ASP:HA	1.78	0.66
3:D:90:MET:HE2	3:D:519:VAL:H	1.61	0.66
3:D:1336:LEU:HB2	3:D:1344:VAL:HG11	1.78	0.66
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.78	0.66
5:F:129:GLU:HB3	5:F:142:ARG:NH2	2.11	0.66
1:L:77:GLU:HG2	3:N:872:ARG:NH2	2.09	0.66
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.77	0.66
2:M:759:THR:HG21	2:M:783:ARG:HH12	1.61	0.66
2:M:1097:LEU:HD13	2:M:1097:LEU:H	1.59	0.66
3:N:554:LEU:HD23	3:N:570:GLU:HG3	1.77	0.66
3:N:661:MET:HE3	3:N:673:ALA:HB1	1.78	0.66
5:P:94:LEU:O	5:P:96:LEU:N	2.28	0.66
5:P:273:ARG:HA	5:P:276:ARG:HG3	1.78	0.66
3:D:245:LEU:O	3:D:245:LEU:HD22	1.96	0.65
3:D:792:ILE:HG23	3:D:793:THR:HG23	1.78	0.65
3:D:900:ILE:HG22	3:D:914:LEU:HG	1.77	0.65
5:F:137:GLY:HA2	5:F:140:ARG:NH2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.79	0.65
2:M:325:ILE:H	2:M:325:ILE:HD12	1.61	0.65
2:M:738:ASP:HB2	2:M:744:ARG:HB3	1.77	0.65
3:N:455:ARG:NE	3:N:463:GLN:NE2	2.41	0.65
3:N:958:GLU:OE2	3:N:961:LYS:NZ	2.29	0.65
2:C:73:LEU:H	2:C:73:LEU:HD12	1.60	0.65
2:C:682:TYR:CE2	2:C:851:LYS:HG2	2.32	0.65
3:D:452:ILE:HG23	3:D:452:ILE:O	1.96	0.65
3:N:10:ILE:HG22	3:N:1451:ALA:HA	1.79	0.65
3:N:214:GLU:HB3	3:N:215:TYR:CD1	2.31	0.65
3:N:465:LEU:O	3:N:468:LEU:HG	1.96	0.65
3:N:813:LEU:HD12	3:N:814:ALA:N	2.11	0.65
3:D:531:ASP:H	3:D:534:ARG:HB2	1.61	0.65
3:D:879:ARG:HD3	3:D:902:LEU:O	1.97	0.65
3:D:1376:MET:C	3:D:1378:TYR:H	2.05	0.65
2:M:749:VAL:HG11	2:M:755:LEU:HD21	1.78	0.65
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.27	0.65
1:A:67:THR:HG21	2:C:609:ASN:ND2	2.12	0.65
1:B:153:ALA:HB1	1:B:166:PRO:HB2	1.76	0.65
2:C:496:ILE:O	2:C:515:ALA:HB1	1.96	0.65
2:C:523:ILE:HG23	2:C:523:ILE:O	1.95	0.65
3:D:559:ALA:O	3:D:561:GLY:N	2.29	0.65
3:D:739:ASP:O	3:D:740:PHE:CD2	2.49	0.65
1:L:131:THR:C	1:L:132:LEU:HD12	2.21	0.65
2:M:577:PRO:HB3	2:M:842:ARG:NH2	2.11	0.65
2:M:1018:GLN:NE2	5:P:338:LEU:HD13	2.11	0.65
2:M:1109:VAL:HG13	3:N:3:LYS:HG2	1.79	0.65
3:N:167:GLU:CD	5:P:90:GLN:HE21	2.04	0.65
3:N:525:ARG:N	3:N:526:PRO:HD3	2.12	0.65
3:N:598:ARG:NH2	5:P:318:GLU:HG3	2.12	0.65
3:N:733:CYS:SG	3:N:738:ALA:O	2.54	0.65
5:P:196:VAL:HG22	5:P:213:ILE:HD13	1.77	0.65
5:P:361:LEU:HD11	5:P:408:LEU:HD12	1.78	0.65
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.60	0.65
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.78	0.65
2:M:1114:GLY:C	2:M:1116:ALA:H	2.03	0.65
3:N:30:GLU:HG3	3:N:41:ARG:NE	2.10	0.65
3:N:427:VAL:HB	3:N:435:VAL:CB	2.26	0.65
2:C:943:VAL:HG11	2:C:973:VAL:HG22	1.78	0.65
3:D:925:GLU:OE1	4:E:6:ILE:HG22	1.96	0.65
5:F:154:LYS:O	5:F:158:GLU:HB2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:59:GLU:OE1	1:L:138:LEU:HA	1.97	0.65
2:M:676:ILE:HG22	2:M:988:VAL:HG13	1.79	0.65
2:M:871:LEU:HD22	2:M:992:MET:HE1	1.79	0.65
3:N:106:LYS:HB3	3:N:586:ARG:HD3	1.78	0.65
3:N:1225:ALA:O	3:N:1226:ALA:C	2.40	0.65
3:N:1465:ASN:ND2	3:N:1473:PRO:HG3	2.12	0.65
4:O:54:LEU:CD2	4:O:63:TRP:HE1	2.09	0.65
5:P:160:ASP:O	5:P:164:LYS:HG3	1.97	0.65
1:B:194:LYS:O	1:B:194:LYS:HG2	1.95	0.65
3:D:223:LEU:N	3:D:365:ASP:HB2	2.12	0.65
3:D:907:GLU:CG	3:D:1027:GLY:N	2.55	0.65
5:F:120:THR:HG21	5:F:122:LEU:HD22	1.79	0.65
1:K:26:GLU:CD	1:K:27:PRO:HD2	2.22	0.65
1:L:94:LEU:HD11	1:L:119:ASP:HB3	1.78	0.65
2:M:495:THR:HG23	2:M:517:ARG:HE	1.61	0.65
2:M:564:MET:HA	2:M:564:MET:HE3	1.79	0.65
2:M:695:LEU:HD21	2:M:833:LEU:HB3	1.77	0.65
4:O:41:GLU:H	4:O:42:PRO:HD2	1.61	0.65
5:P:105:LYS:HB3	5:P:105:LYS:HZ3	1.62	0.65
5:P:115:LYS:O	5:P:118:GLU:HB3	1.97	0.65
2:C:313:LEU:HD13	2:C:321:GLU:HB2	1.79	0.65
2:C:1016:ILE:H	2:C:1016:ILE:CD1	1.79	0.65
3:D:493:ARG:HH21	3:D:1389:LEU:HD21	1.61	0.65
3:D:633:VAL:C	3:D:635:PRO:HD3	2.22	0.65
3:D:1478:SER:O	3:D:1482:ARG:N	2.29	0.65
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.60	0.65
2:M:376:ARG:NH2	2:M:379:GLU:HG2	2.11	0.65
3:N:828:LYS:HD2	3:N:862:ASP:OD2	1.97	0.65
1:A:124:ASN:N	1:A:125:PRO:HD3	2.12	0.65
2:C:605:LYS:HD3	2:C:610:ARG:NH1	2.11	0.65
3:D:36:THR:HG22	3:D:38:LYS:HG3	1.79	0.65
3:D:39:PRO:HB3	3:D:45:PHE:O	1.97	0.65
3:D:228:ALA:HA	3:D:231:VAL:HG13	1.77	0.65
4:E:51:LEU:CG	4:E:53:GLY:H	1.97	0.65
4:E:61:GLU:C	4:E:61:GLU:CD	2.65	0.65
5:F:169:GLU:CD	5:F:169:GLU:H	2.02	0.65
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.27	0.65
2:M:1048:THR:HG23	3:N:750:PRO:HB3	1.78	0.65
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.79	0.65
3:N:112:ILE:HG22	3:N:512:MET:SD	2.37	0.65
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:486:ARG:HH21	3:N:489:ARG:NE	1.94	0.65
2:C:288:ARG:NE	2:C:288:ARG:HA	2.11	0.65
2:C:577:PRO:HA	2:C:671:ASN:ND2	2.09	0.65
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.32	0.65
3:D:40:GLU:O	3:D:41:ARG:O	2.15	0.65
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.78	0.65
3:D:225:LEU:HB2	3:D:227:LEU:HD23	1.78	0.65
3:D:491:LYS:HD3	3:D:492:ALA:N	2.11	0.65
3:D:828:LYS:HD3	3:D:828:LYS:N	2.11	0.65
5:F:164:LYS:CA	5:F:171:LYS:HZ3	2.10	0.65
5:F:386:VAL:HG13	5:F:387:GLY:N	2.12	0.65
1:K:88:ARG:HD3	1:K:89:PHE:O	1.97	0.65
1:L:86:VAL:CG1	1:L:124:ASN:HB2	2.26	0.65
2:M:137:VAL:CG2	2:M:393:GLN:HE22	2.08	0.65
2:M:226:VAL:HG13	2:M:227:PHE:H	1.62	0.65
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.79	0.65
3:N:371:ILE:HD12	3:N:372:ASP:N	2.12	0.65
3:N:570:GLU:C	3:N:572:ARG:H	2.03	0.65
3:N:1275:SER:HB2	3:N:1325:LEU:HD11	1.79	0.65
2:C:317:VAL:HG13	2:C:319:GLY:O	1.96	0.64
2:C:493:ARG:O	2:C:494:TYR:CD2	2.50	0.64
2:C:722:ILE:CD1	2:C:823:VAL:HG21	2.27	0.64
3:D:563:PRO:HB2	5:F:189:GLU:HG2	1.79	0.64
3:D:1336:LEU:HD22	3:D:1421:LEU:HB2	1.79	0.64
3:D:1426:LYS:HB2	3:D:1426:LYS:NZ	2.12	0.64
3:D:1465:ASN:HD21	3:D:1470:ARG:NH1	1.95	0.64
2:M:838:LYS:CD	2:M:846:LYS:HZ1	2.09	0.64
3:N:131:LYS:HD2	5:P:83:GLN:NE2	2.12	0.64
3:N:629:SER:CB	3:N:726:ILE:HG13	2.27	0.64
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.79	0.64
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.61	0.64
3:D:8:VAL:HG12	3:D:1434:TRP:CH2	2.31	0.64
3:D:970:LYS:HA	3:D:973:GLN:HE21	1.62	0.64
2:M:52:PHE:CE2	2:M:98:LEU:HD21	2.33	0.64
2:M:441:VAL:HG11	2:M:544:THR:HG21	1.78	0.64
2:M:807:ARG:HA	2:M:821:GLU:HB2	1.78	0.64
3:N:820:GLU:HA	3:N:825:ALA:O	1.97	0.64
3:D:733:CYS:HG	3:D:740:PHE:HZ	1.42	0.64
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.23	0.64
2:M:511:GLU:O	2:M:526:PRO:HD3	1.97	0.64
3:N:569:ASN:ND2	3:N:572:ARG:NH1	2.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1166:LEU:H	3:N:1166:LEU:HD23	1.62	0.64
5:P:300:ASP:CG	5:P:301:ALA:H	2.06	0.64
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.77	0.64
2:C:1003:ASP:HA	3:D:744:GLN:NE2	2.11	0.64
3:D:441:ARG:O	3:D:443:VAL:HG23	1.97	0.64
3:D:459:GLU:O	3:D:463:GLN:HG2	1.96	0.64
3:D:502:PHE:CE2	3:D:509:PRO:HB3	2.31	0.64
3:D:1130:ARG:HH21	3:D:1132:LEU:HG	1.62	0.64
3:N:58:CYS:SG	3:N:59:ALA:N	2.70	0.64
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.79	0.64
3:D:486:ARG:HA	3:D:489:ARG:HD3	1.79	0.64
3:D:932:ASP:O	3:D:935:LYS:N	2.30	0.64
3:D:970:LYS:HA	3:D:973:GLN:NE2	2.11	0.64
3:D:1292:VAL:O	3:D:1303:TYR:HB2	1.98	0.64
3:D:1292:VAL:CG1	3:D:1325:LEU:HD21	2.26	0.64
4:E:45:ARG:HH22	4:E:72:ARG:HH21	1.45	0.64
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.79	0.64
2:M:650:ARG:HE	2:M:653:ASP:CG	2.05	0.64
2:M:839:LEU:HD21	2:M:849:VAL:HG22	1.77	0.64
3:N:237:LYS:HB3	3:N:238:PRO:HD3	1.80	0.64
3:N:629:SER:HB3	3:N:726:ILE:HG13	1.79	0.64
3:N:1314:LYS:HE2	3:N:1317:ASP:OD2	1.98	0.64
5:P:394:ARG:HB2	5:P:394:ARG:HH11	1.61	0.64
2:C:536:PRO:HB3	2:C:906:PHE:HD1	1.62	0.64
3:D:1066:THR:HG23	3:D:1069:GLU:OE1	1.97	0.64
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.80	0.64
3:D:1424:VAL:CG1	3:D:1425:THR:N	2.60	0.64
5:F:353:GLU:HG3	5:F:417:LYS:HD3	1.78	0.64
1:K:97:VAL:HG11	1:K:120:VAL:HG21	1.79	0.64
2:M:882:LEU:CD1	3:N:1061:PHE:HB3	2.27	0.64
2:M:1071:ILE:HD12	3:N:670:VAL:HG13	1.80	0.64
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.80	0.64
3:N:613:ARG:HH11	3:N:613:ARG:HG3	1.62	0.64
3:N:807:ALA:HB2	3:N:833:GLU:HB2	1.79	0.64
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.33	0.64
2:C:516:ARG:NE	3:D:1068:LEU:HD22	2.12	0.64
2:C:572:ILE:HG13	2:C:573:ARG:HG2	1.78	0.64
2:C:676:ILE:O	2:C:676:ILE:HG12	1.97	0.64
3:D:534:ARG:HH21	5:F:315:VAL:HG21	1.62	0.64
3:D:768:ASN:ND2	3:D:1210:SER:CB	2.60	0.64
3:D:868:TYR:HD1	3:D:869:MET:HG3	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:20:GLU:HG3	2:M:460:ARG:NH2	2.13	0.64
2:M:881:ASN:ND2	2:M:884:GLN:NE2	2.46	0.64
4:O:54:LEU:O	4:O:54:LEU:HD23	1.97	0.64
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.78	0.64
5:P:340:SER:O	5:P:342:VAL:N	2.31	0.64
3:D:646:LYS:HA	3:D:720:LEU:HD23	1.79	0.64
3:D:709:HIS:O	3:D:710:ARG:C	2.41	0.64
3:D:1174:LEU:HD13	3:D:1186:VAL:HG21	1.78	0.64
3:D:1389:LEU:HD23	3:D:1389:LEU:H	1.61	0.64
2:M:129:ILE:HG22	2:M:130:ASN:N	2.12	0.64
3:N:1274:ILE:HD11	3:N:1334:GLN:HE21	1.61	0.64
5:P:367:MET:O	5:P:370:LYS:HG2	1.97	0.64
2:C:403:SER:HB2	2:C:407:LYS:HZ3	1.63	0.64
3:N:493:ARG:HD3	3:N:1388:ARG:HB3	1.80	0.64
3:N:959:GLU:HB2	3:N:963:TYR:HE1	1.62	0.64
3:N:1336:LEU:HD11	3:N:1341:PRO:HG3	1.80	0.64
5:P:163:LEU:HB3	5:P:174:LEU:HD11	1.78	0.64
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.63	0.64
2:C:332:ARG:HE	2:C:464:LEU:HG	1.62	0.64
2:C:408:ARG:NH1	2:C:542:VAL:CG2	2.61	0.64
2:C:470:PRO:HG3	2:C:485:TYR:CZ	2.33	0.64
2:C:573:ARG:HG3	2:C:698:ASP:O	1.97	0.64
3:D:421:LEU:HG	3:D:422:ALA:O	1.97	0.64
3:D:767:HIS:CE1	4:E:6:ILE:HG12	2.33	0.64
1:L:2:LEU:HD12	1:L:3:ASP:N	2.13	0.64
2:M:1033:GLY:O	2:M:1037:VAL:HG23	1.98	0.64
2:M:1036:GLU:O	2:M:1039:ALA:HB3	1.97	0.64
5:P:222:ARG:HD2	5:P:242:TRP:CE3	2.33	0.64
2:C:273:GLY:HA2	2:C:276:LYS:NZ	2.13	0.63
2:C:907:ASP:CG	2:C:907:ASP:O	2.41	0.63
3:D:807:ALA:HB2	3:D:833:GLU:CB	2.28	0.63
2:M:65:VAL:CG2	2:M:101:ILE:HB	2.28	0.63
2:M:502:PRO:CB	2:M:509:ALA:HB3	2.28	0.63
3:N:455:ARG:NE	3:N:463:GLN:HE21	1.96	0.63
3:N:605:ASP:HB3	3:N:610:LYS:HB3	1.79	0.63
3:N:769:LEU:C	3:N:770:LEU:HD23	2.23	0.63
3:N:962:GLN:O	3:N:966:GLU:HG3	1.98	0.63
3:N:1379:VAL:HG11	3:N:1395:LEU:HD23	1.79	0.63
4:O:53:GLY:HA2	4:O:55:PHE:CD2	2.32	0.63
1:A:62:LEU:HD12	1:A:62:LEU:H	1.63	0.63
1:B:13:VAL:HG22	1:B:23:PHE:HD1	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:204:GLN:NE2	2:C:222:MET:HA	2.13	0.63
2:C:517:ARG:HH11	2:C:517:ARG:HG3	1.63	0.63
3:D:118:LEU:HD23	3:D:123:LEU:HD22	1.78	0.63
3:D:916:TYR:C	3:D:916:TYR:HD2	2.07	0.63
1:K:53:VAL:HG12	1:K:167:VAL:HG21	1.81	0.63
1:L:26:GLU:HG2	1:L:27:PRO:CA	2.28	0.63
1:L:190:THR:O	1:L:190:THR:HG22	1.98	0.63
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.80	0.63
2:M:713:ARG:O	2:M:720:GLU:HG3	1.99	0.63
2:M:838:LYS:NZ	2:M:846:LYS:HZ1	1.97	0.63
2:M:1059:ASP:O	2:M:1063:ARG:HG2	1.99	0.63
3:N:103:TRP:CH2	3:N:1447:LEU:HD23	2.33	0.63
2:C:333:ILE:HG12	2:C:467:ILE:HD11	1.80	0.63
3:D:1011:PHE:O	3:D:1015:TYR:O	2.15	0.63
4:E:23:VAL:HG13	4:E:64:ALA:HB3	1.80	0.63
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.80	0.63
5:F:191:ASN:H	5:F:191:ASN:HD22	1.45	0.63
5:F:194:LEU:O	5:F:194:LEU:HD13	1.98	0.63
1:L:158:ILE:HG22	1:L:159:LYS:H	1.64	0.63
2:M:720:GLU:HB3	2:M:758:ARG:HD2	1.78	0.63
3:N:98:PRO:HG3	3:N:515:GLU:HB3	1.79	0.63
3:N:1378:TYR:HB3	3:N:1420:LEU:HD23	1.79	0.63
1:B:5:LYS:HA	1:B:5:LYS:HE3	1.80	0.63
2:C:469:THR:O	2:C:485:TYR:HA	1.98	0.63
2:C:575:GLN:O	2:C:576:ALA:C	2.40	0.63
3:D:533:GLY:HA3	5:F:309:LYS:HB3	1.78	0.63
3:D:711:LEU:CG	3:D:778:LEU:HD23	2.27	0.63
3:D:1462:LEU:HD13	3:D:1472:ILE:CG2	2.29	0.63
2:M:536:PRO:O	2:M:539:VAL:HG23	1.98	0.63
3:N:590:PRO:CB	3:N:600:LEU:HD11	2.26	0.63
3:N:792:ILE:CG2	3:N:793:THR:HG23	2.28	0.63
3:N:1271:LYS:HZ3	3:N:1273:VAL:HA	1.60	0.63
5:P:408:LEU:O	5:P:412:GLU:HG2	1.98	0.63
2:C:259:GLY:HA2	2:C:290:LEU:O	1.99	0.63
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.44	0.63
5:F:99:GLU:OE1	5:F:235:PHE:HB3	1.98	0.63
1:L:62:LEU:HD13	1:L:63:HIS:ND1	2.13	0.63
2:M:25:SER:OG	2:M:335:THR:HB	1.99	0.63
2:M:1031:ARG:HD3	3:N:621:LYS:O	1.99	0.63
3:N:455:ARG:HH22	5:P:140:ARG:CB	2.11	0.63
3:N:648:MET:O	3:N:652:LEU:HD23	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:758:GLU:HG2	4:O:20:THR:HG21	1.80	0.63
3:N:1336:LEU:CB	3:N:1344:VAL:HG21	2.28	0.63
1:A:13:VAL:HG12	1:A:14:ARG:H	1.63	0.63
1:B:133:GLU:HG3	1:B:134:GLU:N	2.13	0.63
2:C:1094:ALA:HB1	3:D:603:LEU:CD2	2.28	0.63
3:D:540:LEU:HD12	3:D:606:ILE:HD11	1.78	0.63
4:E:18:ARG:O	4:E:22:VAL:HG23	1.99	0.63
2:M:744:ARG:NH2	2:M:747:ALA:HA	2.13	0.63
2:C:949:LYS:HZ2	3:D:859:ASP:CG	2.07	0.63
2:C:952:LEU:CD1	2:C:969:GLN:HE22	2.06	0.63
2:C:1097:LEU:HD11	3:D:1451:ALA:HB2	1.81	0.63
3:D:159:ARG:HH11	3:D:159:ARG:HG3	1.63	0.63
3:D:216:VAL:HG12	3:D:217:LYS:H	1.63	0.63
3:D:911:LEU:C	3:D:913:ASP:N	2.53	0.63
3:D:1168:MET:HE2	3:D:1172:HIS:CE1	2.33	0.63
1:K:11:PHE:HE1	1:L:225:PHE:CD2	2.16	0.63
1:K:20:TYR:CD2	1:K:21:GLY:N	2.63	0.63
1:K:219:ARG:HH12	1:K:220:GLU:HB2	1.64	0.63
2:M:13:ILE:HD11	2:M:470:PRO:HB3	1.80	0.63
2:M:1047:HIS:ND1	3:N:754:PHE:HB3	2.14	0.63
2:M:1071:ILE:HG23	3:N:670:VAL:CG2	2.28	0.63
3:N:556:LYS:CE	5:P:218:GLN:HE22	2.12	0.63
3:N:1088:THR:O	3:N:1089:ALA:C	2.41	0.63
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.13	0.63
2:C:238:LEU:HA	2:C:241:LEU:HD12	1.80	0.63
2:C:383:ARG:HB2	2:C:383:ARG:HH11	1.63	0.63
2:C:949:LYS:NZ	3:D:862:ASP:OD1	2.31	0.63
2:C:1044:GLY:HA3	3:D:762:GLN:OE1	1.98	0.63
2:C:1091:GLU:CD	3:D:606:ILE:HG21	2.24	0.63
3:D:470:LEU:HD12	3:D:508:ARG:NH1	2.14	0.63
3:D:1491:THR:HG21	4:E:89:MET:CE	2.29	0.63
2:M:886:LEU:CD1	3:N:951:ILE:HG13	2.29	0.63
2:M:901:TYR:HE2	2:M:917:LEU:HD12	1.64	0.63
2:M:1046:ALA:HB3	3:N:758:GLU:OE1	1.99	0.63
3:N:486:ARG:NE	3:N:489:ARG:HD3	2.13	0.63
3:N:1267:ARG:CZ	3:N:1271:LYS:HG3	2.28	0.63
2:C:611:ILE:HD11	2:C:641:PRO:HG3	1.81	0.63
2:C:841:ASN:C	2:C:841:ASN:ND2	2.50	0.63
3:D:740:PHE:C	3:D:742:GLY:H	2.07	0.63
3:D:1487:VAL:HG12	3:D:1488:ASP:N	2.13	0.63
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:422:ARG:HG3	2:M:423:ALA:H	1.62	0.63
3:N:1176:LYS:O	3:N:1179:GLU:HB2	1.99	0.63
1:A:44:LEU:HA	1:A:48:ILE:HD11	1.80	0.62
2:C:589:ARG:HD3	2:C:596:TYR:CE2	2.33	0.62
3:D:10:ILE:CD1	3:D:1434:TRP:CE2	2.82	0.62
3:D:729:HIS:ND1	3:D:731:LEU:N	2.43	0.62
3:D:947:ILE:HD12	3:D:947:ILE:C	2.23	0.62
3:D:1130:ARG:HD2	3:D:1131:SER:N	2.14	0.62
3:D:1232:PRO:O	3:D:1234:THR:N	2.32	0.62
3:D:1306:PRO:O	3:D:1308:GLU:N	2.32	0.62
5:F:78:SER:O	5:F:82:ARG:HB2	1.99	0.62
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.80	0.62
2:C:259:GLY:O	2:C:291:ALA:HB2	1.98	0.62
3:D:601:ARG:NH2	3:D:611:GLN:HB2	2.14	0.62
3:D:628:ARG:HG2	3:D:629:SER:N	2.12	0.62
3:D:1036:ARG:HG2	3:D:1036:ARG:O	1.98	0.62
3:D:1207:TYR:H	3:D:1366:LYS:NZ	1.89	0.62
5:F:403:LYS:O	5:F:407:LYS:HB2	1.97	0.62
2:M:51:THR:HG21	2:M:348:LEU:HB3	1.79	0.62
2:M:691:SER:HB2	2:M:858:MET:SD	2.39	0.62
2:M:1056:LYS:O	3:N:624:ASP:HB2	1.99	0.62
3:N:368:VAL:HG22	3:N:369:ALA:N	2.14	0.62
3:N:461:ILE:HG22	3:N:465:LEU:CD1	2.28	0.62
3:N:661:MET:HB3	3:N:667:ALA:HB3	1.81	0.62
3:N:976:GLN:HG2	3:N:979:GLU:OE1	1.99	0.62
3:N:1129:THR:HG23	3:N:1130:ARG:N	2.13	0.62
2:C:12:VAL:HG13	2:C:13:ILE:H	1.65	0.62
2:C:28:ARG:HG2	2:C:40:GLU:OE1	1.98	0.62
2:C:63:GLY:HA3	2:C:103:LYS:CG	2.30	0.62
2:C:67:ASP:HB2	2:C:99:GLN:HG3	1.81	0.62
2:C:148:PHE:HB3	2:C:313:LEU:HD22	1.81	0.62
2:C:516:ARG:HH11	2:C:521:PRO:CB	2.12	0.62
3:D:1031:ASN:O	3:D:1034:GLN:N	2.33	0.62
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.81	0.62
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.81	0.62
3:N:591:VAL:HA	3:N:600:LEU:HD21	1.81	0.62
2:C:1:MET:SD	2:C:900:ARG:HD3	2.38	0.62
2:C:91:GLN:CD	2:C:117:HIS:HB3	2.24	0.62
2:C:678:PRO:HG3	2:C:873:PRO:HD2	1.81	0.62
2:C:971:LYS:HA	2:C:988:VAL:HA	1.81	0.62
2:C:1087:VAL:HG12	2:C:1091:GLU:OE1	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:729:HIS:CE1	3:D:731:LEU:HB2	2.34	0.62
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.29	0.62
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.80	0.62
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.29	0.62
2:M:712:ALA:O	2:M:820:ARG:HB2	1.99	0.62
3:N:141:ILE:H	3:N:141:ILE:CD1	2.07	0.62
3:N:590:PRO:HB2	3:N:600:LEU:CD1	2.25	0.62
3:N:1260:ILE:C	3:N:1262:LEU:N	2.57	0.62
5:P:354:LEU:HD23	5:P:418:LEU:HD11	1.81	0.62
2:C:274:ARG:N	2:C:288:ARG:HH12	1.97	0.62
2:C:301:GLU:O	2:C:305:PRO:HG2	2.00	0.62
2:C:588:VAL:HG21	2:C:664:GLY:HA2	1.81	0.62
3:D:166:GLN:HB3	3:D:395:VAL:HG23	1.80	0.62
3:D:426:LYS:HD3	5:F:134:LYS:O	1.99	0.62
5:F:164:LYS:CA	5:F:171:LYS:NZ	2.62	0.62
5:F:340:SER:O	5:F:342:VAL:N	2.33	0.62
2:M:700:TYR:HB2	2:M:833:LEU:HD22	1.81	0.62
3:N:13:ALA:HA	3:N:17:LYS:HD2	1.81	0.62
3:N:69:GLU:O	3:N:80:VAL:HG13	1.99	0.62
3:N:1119:SER:O	3:N:1346:ARG:NH2	2.33	0.62
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.34	0.62
2:C:3:ILE:HD13	2:C:900:ARG:HG3	1.80	0.62
2:C:47:ALA:O	2:C:50:GLU:HB3	2.00	0.62
2:C:100:LEU:HD12	2:C:100:LEU:O	1.99	0.62
2:C:946:ARG:HD2	2:C:984:GLU:HB2	1.81	0.62
3:D:1140:ILE:HG22	3:D:1141:GLU:N	2.13	0.62
5:F:77:THR:CA	5:F:80:PRO:HD2	2.29	0.62
1:L:143:ARG:HD2	1:L:160:ASP:OD1	2.00	0.62
2:M:288:ARG:NE	2:M:288:ARG:HA	2.13	0.62
3:N:14:SER:OG	3:N:511:TRP:NE1	2.31	0.62
3:N:387:LEU:HD21	5:P:97:GLU:HB2	1.81	0.62
3:N:545:ARG:NH1	3:N:545:ARG:HB3	2.14	0.62
3:N:642:CYS:HB3	3:N:716:PHE:CD2	2.33	0.62
3:N:1108:ARG:HG3	3:N:1108:ARG:O	1.99	0.62
5:P:398:ARG:HD3	5:P:399:GLN:N	2.14	0.62
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.80	0.62
1:A:7:LYS:NZ	1:A:188:GLN:HE21	1.97	0.62
2:C:713:ARG:HA	2:C:818:GLY:O	2.00	0.62
2:C:799:ILE:H	2:C:799:ILE:CD1	2.10	0.62
2:C:860:HIS:NE2	2:C:975:TYR:HB2	2.15	0.62
2:C:1094:ALA:C	3:D:603:LEU:HD13	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:234:GLU:O	3:D:238:PRO:HD2	1.99	0.62
3:D:1140:ILE:O	3:D:1143:GLY:N	2.20	0.62
1:L:170:VAL:HG11	3:N:848:GLU:OE1	1.99	0.62
2:M:328:LEU:N	2:M:433:THR:HG21	2.12	0.62
2:M:413:LEU:HD12	2:M:413:LEU:N	2.14	0.62
2:M:599:GLU:HA	2:M:651:LYS:HG3	1.81	0.62
3:N:137:PRO:CD	3:N:453:ASP:HB3	2.29	0.62
3:N:195:VAL:CB	3:N:205:TYR:HB2	2.29	0.62
3:N:367:ILE:HD13	3:N:367:ILE:H	1.65	0.62
3:N:1291:SER:HB3	3:N:1293:PHE:HE1	1.65	0.62
5:P:276:ARG:HG3	5:P:276:ARG:HH11	1.65	0.62
5:P:406:ARG:HG2	5:P:409:LYS:NZ	2.15	0.62
2:C:6:PHE:O	2:C:7:GLY:O	2.17	0.62
2:C:334:ARG:HB3	2:C:338:GLU:CD	2.24	0.62
2:C:486:MET:CE	2:C:496:ILE:HD11	2.30	0.62
2:C:841:ASN:ND2	2:C:843:HIS:H	1.98	0.62
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.81	0.62
3:D:525:ARG:O	3:D:525:ARG:HG3	1.98	0.62
3:D:638:LYS:HB2	3:D:641:GLN:OE1	1.98	0.62
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.26	0.62
4:E:68:LEU:HD11	4:E:75:PHE:HE2	1.63	0.62
2:M:242:LEU:HD22	2:M:242:LEU:N	2.15	0.62
2:M:442:GLU:O	2:M:442:GLU:HG3	1.99	0.62
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.82	0.62
2:M:1111:ILE:HG13	2:M:1112:PHE:CD1	2.35	0.62
3:N:385:VAL:HG13	5:P:232:ARG:HH12	1.62	0.62
1:A:42:ARG:NH1	2:C:978:ARG:HA	2.15	0.62
1:A:170:VAL:HG11	2:C:696:LYS:HD3	1.81	0.62
2:C:795:GLY:O	2:C:796:GLU:HG2	2.00	0.62
2:C:1043:TYR:HE2	3:D:710:ARG:HD3	1.64	0.62
3:D:100:ALA:HB3	3:D:128:TYR:HE2	1.65	0.62
3:D:139:GLY:HA2	3:D:452:ILE:HA	1.82	0.62
3:D:192:ALA:O	3:D:195:VAL:HG23	2.00	0.62
3:D:367:ILE:HG23	3:D:368:VAL:N	2.14	0.62
3:D:380:GLU:O	3:D:382:GLU:N	2.33	0.62
3:D:493:ARG:HE	3:D:1389:LEU:HD21	1.64	0.62
3:D:498:VAL:HG13	3:D:499:VAL:H	1.64	0.62
3:D:528:VAL:CB	3:D:536:ALA:HB3	2.28	0.62
3:D:729:HIS:HE1	3:D:731:LEU:HG	1.65	0.62
5:F:180:GLY:O	5:F:183:ALA:N	2.33	0.62
1:K:176:ARG:HH22	2:M:865:THR:HB	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:12:THR:HG23	1:L:24:VAL:HB	1.82	0.62
2:M:534:VAL:N	2:M:538:GLN:HE22	1.97	0.62
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.15	0.62
4:O:40:LEU:HD13	4:O:45:ARG:HD2	1.82	0.62
5:P:289:GLU:O	5:P:293:GLU:HG3	2.00	0.62
1:A:57:TYR:HE1	1:A:163:ASN:HB2	1.64	0.62
2:C:191:PHE:CE2	2:C:238:LEU:HD11	2.35	0.62
2:C:589:ARG:HD3	2:C:596:TYR:CZ	2.34	0.62
2:C:690:ILE:HG21	2:C:833:LEU:HD21	1.81	0.62
2:C:1054:THR:CG2	2:C:1059:ASP:HB2	2.29	0.62
3:D:572:ARG:NH2	5:F:83:GLN:NE2	2.47	0.62
3:D:1001:GLU:OE2	3:D:1001:GLU:C	2.42	0.62
3:D:1008:PHE:O	3:D:1009:LYS:C	2.43	0.62
5:F:394:ARG:O	5:F:397:ILE:HB	2.00	0.62
5:F:413:SER:O	5:F:416:ARG:HD3	1.99	0.62
2:M:302:VAL:C	2:M:305:PRO:HD2	2.24	0.62
2:M:1109:VAL:CG2	3:N:3:LYS:HB2	2.29	0.62
3:N:1242:HIS:HB3	3:N:1269:LYS:NZ	2.14	0.62
2:C:194:VAL:HG22	2:C:221:LEU:CD1	2.23	0.61
2:C:722:ILE:O	2:C:722:ILE:HG12	2.00	0.61
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.82	0.61
3:D:136:ASP:CB	3:D:137:PRO:CD	2.76	0.61
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.27	0.61
3:D:659:LYS:HE3	3:D:662:GLU:OE2	2.00	0.61
3:D:1126:ASP:OD2	3:D:1129:THR:HA	2.00	0.61
4:E:54:LEU:HD21	4:E:63:TRP:HE1	1.65	0.61
2:M:413:LEU:HD21	2:M:451:LEU:HD13	1.82	0.61
3:N:168:THR:HG22	3:N:170:PRO:HD3	1.82	0.61
3:N:413:ASP:HB2	3:N:444:VAL:HG11	1.82	0.61
3:N:601:ARG:HB3	5:P:318:GLU:OE2	2.00	0.61
3:N:609:GLY:HA2	3:N:613:ARG:HB3	1.81	0.61
3:N:669:ASN:OD1	3:N:672:ALA:HB2	1.99	0.61
3:N:675:ARG:O	3:N:678:GLU:HG2	1.99	0.61
3:N:728:LEU:HD22	3:N:745:MET:SD	2.40	0.61
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.82	0.61
2:C:1015:LEU:HB3	2:C:1016:ILE:CD1	2.21	0.61
3:D:601:ARG:HH12	3:D:611:GLN:CB	2.13	0.61
3:D:1105:ILE:HD11	3:D:1374:GLN:OE1	1.99	0.61
2:M:744:ARG:HG3	2:M:744:ARG:O	1.99	0.61
2:M:794:PRO:O	2:M:1004:LYS:HD2	2.00	0.61
2:M:1047:HIS:H	3:N:758:GLU:CD	2.06	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1271:LYS:CE	3:N:1334:GLN:HE22	2.13	0.61
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.81	0.61
4:O:40:LEU:HD12	4:O:40:LEU:O	2.00	0.61
1:A:28:LEU:HB2	1:A:193:ASP:O	2.00	0.61
3:D:798:GLU:HG2	3:D:799:LYS:N	2.00	0.61
2:M:250:ARG:HB3	2:M:253:ALA:CB	2.30	0.61
2:M:680:ASP:C	2:M:682:TYR:H	2.08	0.61
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.82	0.61
3:N:216:VAL:HG11	3:N:221:ALA:CA	2.29	0.61
3:N:1113:GLY:O	3:N:1114:THR:C	2.44	0.61
3:N:1389:LEU:HD23	3:N:1389:LEU:N	2.15	0.61
2:C:682:TYR:OH	2:C:851:LYS:HE2	2.00	0.61
2:C:755:LEU:HD11	2:C:792:VAL:HG22	1.81	0.61
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.35	0.61
3:D:790:TYR:O	3:D:791:TYR:C	2.42	0.61
3:D:1076:GLY:O	3:D:1079:LYS:HG2	2.00	0.61
3:D:1188:VAL:HG22	3:D:1189:ARG:N	2.15	0.61
3:D:1353:GLN:HG3	3:D:1365:ASP:OD2	1.99	0.61
4:E:48:MET:N	4:E:54:LEU:HB2	2.15	0.61
2:M:1063:ARG:HG3	2:M:1064:ASN:N	2.15	0.61
3:N:218:LYS:O	3:N:370:ALA:HB1	2.01	0.61
3:N:565:ILE:H	3:N:565:ILE:HD12	1.65	0.61
3:N:643:GLY:O	3:N:726:ILE:HG23	2.00	0.61
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.83	0.61
3:N:1148:VAL:HG12	3:N:1189:ARG:HB2	1.83	0.61
2:C:1043:TYR:CE2	3:D:710:ARG:HB2	2.35	0.61
3:D:1102:THR:HG22	3:D:1102:THR:O	2.01	0.61
3:D:1258:ARG:C	3:D:1260:ILE:N	2.56	0.61
3:D:1341:PRO:C	3:D:1343:ALA:H	2.08	0.61
5:F:271:LEU:CD1	5:F:308:LEU:HD21	2.29	0.61
2:M:8:ARG:HD2	2:M:10:ARG:HH12	1.64	0.61
2:M:15:LEU:HB2	2:M:586:ARG:HH22	1.65	0.61
2:M:110:GLU:HG2	2:M:369:PRO:HA	1.82	0.61
2:M:244:PRO:HG2	2:M:246:ASP:H	1.65	0.61
2:M:1009:SER:N	3:N:651:GLU:OE2	2.34	0.61
3:N:34:TYR:CE2	5:P:260:ILE:HG13	2.36	0.61
3:N:764:LEU:HD23	3:N:767:HIS:NE2	2.15	0.61
3:N:817:GLU:HA	3:N:836:VAL:HG23	1.83	0.61
3:N:1330:ILE:HB	3:N:1347:TYR:CE2	2.35	0.61
3:N:1488:ASP:O	3:N:1492:LEU:HB2	2.00	0.61
5:P:102:LEU:O	5:P:105:LYS:N	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:196:LEU:HD11	2:C:303:PHE:CE1	2.36	0.61
2:C:367:LEU:HD23	2:C:367:LEU:H	1.65	0.61
3:D:387:LEU:HD13	5:F:97:GLU:H	1.66	0.61
3:D:528:VAL:N	3:D:536:ALA:O	2.33	0.61
3:D:1065:LEU:HD23	3:D:1070:TYR:HD2	1.64	0.61
3:D:1148:VAL:HA	3:D:1164:ARG:O	1.99	0.61
3:D:1459:LEU:HD12	3:D:1470:ARG:NH1	2.15	0.61
1:L:209:GLU:O	1:L:212:ASN:HB2	2.00	0.61
2:M:159:ILE:HG22	2:M:175:GLU:HG3	1.82	0.61
3:N:1065:LEU:O	3:N:1065:LEU:CD2	2.44	0.61
3:N:1495:ILE:HG12	4:O:80:VAL:CG1	2.31	0.61
5:P:93:LEU:HD13	5:P:99:GLU:HG2	1.81	0.61
5:P:187:LEU:O	5:P:190:ALA:HB3	2.00	0.61
2:C:69:LEU:HD12	2:C:97:ARG:HB3	1.83	0.61
2:C:589:ARG:HB2	2:C:589:ARG:HH11	1.66	0.61
3:D:573:MET:SD	5:F:210:LEU:HB3	2.41	0.61
3:D:1190:SER:OG	3:D:1369:GLU:OE1	2.11	0.61
5:F:333:ILE:N	5:F:333:ILE:HD12	2.15	0.61
2:M:129:ILE:N	2:M:129:ILE:HD12	2.15	0.61
2:M:1047:HIS:N	3:N:758:GLU:OE1	2.30	0.61
2:M:1071:ILE:HD11	3:N:658:LEU:HD12	1.81	0.61
5:P:138:SER:C	5:P:140:ARG:H	2.06	0.61
5:P:163:LEU:CD2	5:P:174:LEU:HG	2.21	0.61
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.82	0.61
3:D:36:THR:C	3:D:38:LYS:H	2.08	0.61
3:D:1131:SER:O	3:D:1132:LEU:C	2.44	0.61
3:D:1451:ALA:O	3:D:1453:ALA:N	2.33	0.61
3:D:1476:THR:CG2	4:E:21:VAL:HG22	2.31	0.61
5:F:260:ILE:HG12	5:F:264:MET:HB2	1.83	0.61
2:M:3:ILE:CD1	2:M:900:ARG:HB2	2.31	0.61
2:M:422:ARG:HG3	2:M:423:ALA:N	2.16	0.61
3:N:82:LYS:C	3:N:84:ILE:H	2.09	0.61
3:N:564:GLU:HG2	3:N:565:ILE:HD12	1.83	0.61
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.83	0.61
1:A:94:LEU:CD1	1:A:119:ASP:HB3	2.31	0.61
2:C:869:VAL:HG22	2:C:870:ILE:N	2.15	0.61
2:C:1029:GLY:HA3	3:D:622:ARG:HB3	1.83	0.61
3:D:108:VAL:CB	3:D:109:PRO:HD3	2.25	0.61
3:D:171:LEU:HB3	3:D:390:PRO:HA	1.81	0.61
3:D:434:ARG:CB	3:D:447:VAL:HG13	2.31	0.61
3:D:552:ASN:O	3:D:555:LYS:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:783:ARG:HH21	3:D:1029:ARG:CZ	2.14	0.61
3:D:1118:ILE:HG21	3:D:1190:SER:HB3	1.83	0.61
2:M:534:VAL:N	2:M:538:GLN:NE2	2.49	0.61
2:M:881:ASN:ND2	2:M:881:ASN:H	1.98	0.61
3:N:245:LEU:O	3:N:245:LEU:HD13	2.00	0.61
3:N:917:GLN:O	3:N:918:ALA:C	2.44	0.61
3:N:1344:VAL:O	3:N:1348:LEU:HD23	2.00	0.61
5:P:406:ARG:CB	5:P:409:LYS:HE2	2.30	0.61
3:D:421:LEU:H	3:D:421:LEU:HD23	1.65	0.61
3:D:1365:ASP:O	3:D:1369:GLU:HG3	2.00	0.61
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.82	0.61
5:F:277:GLN:O	5:F:280:GLN:HB3	2.01	0.61
1:L:137:ARG:HG2	1:L:137:ARG:HH11	1.65	0.61
2:M:203:ASP:O	2:M:207:LEU:HB2	2.01	0.61
2:M:430:VAL:HG23	3:N:1078:ARG:CZ	2.31	0.61
2:M:971:LYS:HD2	2:M:986:PRO:HB2	1.83	0.61
3:N:149:LYS:HD3	3:N:149:LYS:N	2.13	0.61
3:N:1209:LEU:HD23	3:N:1211:MET:HE1	1.83	0.61
1:A:228:PRO:O	1:A:229:GLN:HG2	2.00	0.60
1:B:100:LEU:HD12	1:B:115:LEU:HD21	1.82	0.60
2:C:345:ARG:NH1	2:C:345:ARG:HB3	2.16	0.60
3:D:915:VAL:O	3:D:916:TYR:C	2.42	0.60
3:D:1114:THR:HG21	3:D:1195:GLN:N	2.16	0.60
3:D:1311:LEU:HD23	3:D:1311:LEU:N	2.13	0.60
1:K:50:GLY:O	1:K:146:ARG:HA	2.01	0.60
2:M:500:ASN:HD21	3:N:1067:VAL:HG23	1.66	0.60
2:M:1044:GLY:O	2:M:1046:ALA:N	2.34	0.60
3:N:14:SER:HG	3:N:511:TRP:CD1	2.19	0.60
3:N:433:GLY:H	3:N:448:GLU:HA	1.66	0.60
3:N:765:SER:O	3:N:767:HIS:N	2.33	0.60
3:N:799:LYS:O	3:N:799:LYS:HD3	2.01	0.60
3:N:804:LEU:O	3:N:830:ALA:O	2.19	0.60
3:N:1242:HIS:HB3	3:N:1269:LYS:HZ1	1.65	0.60
2:C:274:ARG:H	2:C:288:ARG:HH12	1.49	0.60
2:C:430:VAL:HB	3:D:1078:ARG:NH1	2.16	0.60
2:C:926:PHE:HE2	2:C:960:GLU:OE1	1.84	0.60
3:D:14:SER:O	3:D:17:LYS:N	2.33	0.60
3:D:142:LEU:HD12	3:D:142:LEU:O	2.01	0.60
3:D:783:ARG:CZ	3:D:1029:ARG:CZ	2.79	0.60
3:D:1267:ARG:HH21	3:D:1271:LYS:HG3	1.66	0.60
3:D:1278:ASP:OD1	3:D:1321:ALA:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:86:GLN:O	4:E:90:GLU:HG3	2.01	0.60
2:M:432:ARG:HH12	3:N:1047:LYS:HG2	1.66	0.60
2:M:751:PRO:HG3	2:M:796:GLU:HA	1.83	0.60
3:N:583:ASP:OD1	3:N:604:THR:CB	2.49	0.60
3:N:984:THR:O	3:N:987:GLU:N	2.34	0.60
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.42	0.60
3:N:1336:LEU:CD1	3:N:1341:PRO:HA	2.30	0.60
5:P:130:VAL:HG13	5:P:156:VAL:HG23	1.82	0.60
3:D:601:ARG:HD2	5:F:318:GLU:OE1	2.01	0.60
3:D:644:LEU:C	3:D:721:VAL:HG22	2.26	0.60
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.65	0.60
3:D:1491:THR:HG21	4:E:89:MET:HE1	1.82	0.60
1:K:42:ARG:NH1	2:M:856:GLU:O	2.35	0.60
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.32	0.60
2:M:332:ARG:HG3	2:M:465:GLY:O	2.00	0.60
2:M:575:GLN:O	2:M:667:ALA:HB1	2.02	0.60
2:M:610:ARG:HH11	2:M:610:ARG:HG3	1.66	0.60
3:N:808:THR:HB	3:N:809:PRO:HD3	1.83	0.60
5:P:160:ASP:O	5:P:163:LEU:HB2	2.02	0.60
1:B:162:ILE:HG23	1:B:163:ASN:ND2	2.17	0.60
2:C:497:ALA:O	2:C:532:MET:HG3	2.01	0.60
2:C:1005:MET:HE2	3:D:648:MET:HE3	1.82	0.60
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.35	0.60
2:C:1117:SER:O	3:D:23:TYR:OH	2.19	0.60
3:D:30:GLU:OE1	3:D:40:GLU:HG2	2.00	0.60
3:D:843:PHE:HD1	3:D:849:ALA:HA	1.64	0.60
1:K:170:VAL:HG23	1:K:170:VAL:O	2.01	0.60
1:L:101:LEU:HD22	1:L:140:MET:HE1	1.83	0.60
2:M:683:ASN:HA	2:M:687:ALA:CB	2.31	0.60
2:M:1000:MET:SD	2:M:1001:VAL:N	2.74	0.60
3:N:558:LEU:O	3:N:561:GLY:N	2.32	0.60
3:N:691:LEU:O	3:N:694:VAL:HB	2.01	0.60
3:N:858:VAL:HG12	3:N:859:ASP:O	2.00	0.60
3:N:1384:PRO:HG2	3:N:1389:LEU:N	2.16	0.60
3:N:1474:ALA:O	3:N:1475:GLY:C	2.44	0.60
3:D:98:PRO:HG2	3:D:462:GLN:HE22	1.67	0.60
3:D:223:LEU:CA	3:D:365:ASP:HB2	2.31	0.60
1:K:64:GLU:HB2	1:K:165:ILE:HG21	1.83	0.60
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.83	0.60
2:M:838:LYS:NZ	2:M:846:LYS:NZ	2.49	0.60
3:N:366:LYS:HB2	3:N:366:LYS:NZ	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:616:GLN:CB	5:P:326:ASP:HB2	2.29	0.60
3:N:936:TYR:O	3:N:937:TYR:C	2.42	0.60
2:C:204:GLN:CD	2:C:222:MET:HA	2.26	0.60
2:C:912:PRO:HA	2:C:915:LYS:HB2	1.83	0.60
2:C:1102:LEU:HD22	3:D:9:ARG:HD3	1.81	0.60
3:D:423:ASP:HB2	5:F:178:ARG:HG3	1.83	0.60
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.82	0.60
3:D:785:ILE:HD11	3:D:939:PHE:CZ	2.37	0.60
5:F:128:ARG:HG2	5:F:132:ARG:NH1	2.15	0.60
5:F:205:ARG:HE	5:F:251:ILE:HD13	1.65	0.60
1:K:26:GLU:HB3	1:K:27:PRO:CD	2.30	0.60
1:L:59:GLU:HG3	1:L:60:ASP:N	2.04	0.60
2:M:561:GLY:C	2:M:563:ASN:H	2.09	0.60
3:N:32:ILE:HG23	3:N:38:LYS:O	2.00	0.60
3:N:106:LYS:HE2	3:N:587:ARG:HD3	1.84	0.60
3:N:182:GLY:O	3:N:186:VAL:HB	2.02	0.60
3:N:760:ARG:HH21	4:O:3:GLU:CD	2.09	0.60
3:N:953:ASP:OD2	3:N:1019:PRO:HD2	2.00	0.60
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.82	0.60
3:N:1372:VAL:C	3:N:1375:MET:HG3	2.25	0.60
5:P:88:ILE:CD1	5:P:193:ARG:HH11	2.15	0.60
5:P:282:LEU:C	5:P:284:ARG:H	2.10	0.60
2:C:144:PRO:HA	2:C:163:ILE:O	2.01	0.60
2:C:571:LEU:HD13	2:C:669:GLY:HA2	1.83	0.60
2:C:860:HIS:CD2	2:C:975:TYR:HB2	2.37	0.60
2:C:863:ASP:CG	2:C:864:GLY:N	2.58	0.60
2:C:1074:GLU:HG2	2:C:1075:ASP:N	2.16	0.60
2:C:1081:VAL:HB	2:C:1086:ARG:CZ	2.31	0.60
5:F:288:TYR:CE2	5:F:305:GLU:HG3	2.37	0.60
1:K:100:LEU:HB2	1:K:115:LEU:HD11	1.83	0.60
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	1.83	0.60
2:M:1109:VAL:HG13	3:N:3:LYS:H	1.66	0.60
3:N:601:ARG:CG	3:N:606:ILE:HG13	2.31	0.60
3:N:1090:ASP:HB3	3:N:1093:TYR:HB2	1.82	0.60
3:N:1365:ASP:O	3:N:1366:LYS:C	2.45	0.60
1:A:14:ARG:HH22	1:A:24:VAL:CG2	2.14	0.60
1:B:89:PHE:HB3	1:B:94:LEU:HD22	1.82	0.60
3:D:602:SER:O	3:D:606:ILE:HG13	2.02	0.60
3:D:1101:VAL:HG12	3:D:1374:GLN:CB	2.32	0.60
3:D:1459:LEU:HD12	3:D:1470:ARG:HH11	1.67	0.60
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.28	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.83	0.60
2:M:553:ASP:OD2	2:M:881:ASN:CB	2.50	0.60
2:M:690:ILE:HB	2:M:852:ILE:HD13	1.84	0.60
3:N:1008:PHE:CZ	3:N:1032:PRO:HA	2.37	0.60
1:B:153:ALA:O	1:B:156:HIS:HD2	1.84	0.60
2:C:209:ARG:N	2:C:209:ARG:HD2	2.17	0.60
2:C:328:LEU:HD13	2:C:433:THR:HG22	1.83	0.60
2:C:695:LEU:HD13	2:C:832:LYS:CE	2.28	0.60
2:C:859:PRO:HB3	2:C:974:LEU:HD23	1.84	0.60
3:D:1078:ARG:C	3:D:1080:GLY:H	2.09	0.60
3:D:1114:THR:HG22	3:D:1195:GLN:HB2	1.82	0.60
5:F:150:THR:HB	5:F:155:THR:HG21	1.83	0.60
1:L:62:LEU:HD12	1:L:62:LEU:H	1.66	0.60
2:M:554:ASP:OD1	2:M:555:ALA:N	2.35	0.60
3:N:376:GLU:CD	3:N:376:GLU:H	2.10	0.60
3:N:560:GLN:O	3:N:560:GLN:HG3	2.02	0.60
3:N:1258:ARG:HG2	3:N:1262:LEU:HD13	1.84	0.60
3:N:1265:ALA:HB1	3:N:1333:HIS:CE1	2.36	0.60
3:N:1314:LYS:NZ	3:N:1317:ASP:HB2	2.17	0.60
3:N:1459:LEU:CD1	3:N:1470:ARG:HH11	2.15	0.60
5:P:196:VAL:HG13	5:P:209:PHE:HZ	1.66	0.60
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.67	0.60
2:C:728:HIS:HB3	2:C:729:LEU:HD22	1.84	0.60
2:C:807:ARG:NH2	2:C:808:ARG:HB2	2.16	0.60
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.84	0.60
2:C:1096:ALA:HB3	3:D:101:HIS:CE1	2.37	0.60
3:D:783:ARG:NE	3:D:1029:ARG:CZ	2.65	0.60
3:D:1209:LEU:CD1	3:D:1219:GLU:OE1	2.50	0.60
5:F:392:VAL:HG11	5:F:396:ARG:HD2	1.84	0.60
1:K:38:ASN:O	1:K:41:ARG:N	2.35	0.60
2:M:44:ILE:CD1	2:M:340:MET:HE1	2.31	0.60
2:M:66:LEU:HD13	2:M:100:LEU:HB3	1.84	0.60
2:M:350:ARG:HG2	2:M:350:ARG:HH11	1.67	0.60
2:M:484:VAL:O	2:M:484:VAL:HG12	2.01	0.60
2:M:516:ARG:HH11	3:N:1068:LEU:HD22	1.65	0.60
3:N:175:VAL:O	3:N:179:VAL:HG21	2.02	0.60
3:N:629:SER:HB3	3:N:726:ILE:CD1	2.32	0.60
3:N:890:VAL:O	3:N:890:VAL:HG23	2.02	0.60
3:N:1233:GLY:O	3:N:1236:LEU:HB2	2.02	0.60
3:N:1260:ILE:O	3:N:1262:LEU:N	2.34	0.60
2:C:102:HIS:C	2:C:104:ASP:H	2.10	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:650:ARG:N	2:C:650:ARG:CD	2.61	0.59
3:D:237:LYS:HA	3:D:237:LYS:HE3	1.84	0.59
3:D:637:LEU:HD23	3:D:637:LEU:O	2.02	0.59
3:D:834:THR:HA	3:D:838:ARG:HE	1.67	0.59
3:N:601:ARG:HD2	3:N:613:ARG:HH21	1.66	0.59
5:P:372:ARG:NE	5:P:388:ALA:HA	2.17	0.59
1:A:42:ARG:HH12	2:C:857:ASP:CB	2.15	0.59
1:A:178:ALA:O	1:A:197:LEU:HD23	2.01	0.59
2:C:208:ALA:O	2:C:218:VAL:HG21	2.01	0.59
2:C:660:ALA:HB1	2:C:667:ALA:O	2.01	0.59
3:D:542:ASP:OD2	3:D:545:ARG:NH2	2.34	0.59
3:D:681:ARG:HB2	3:D:681:ARG:HH11	1.67	0.59
3:D:1459:LEU:CD1	3:D:1470:ARG:HH11	2.15	0.59
5:F:136:LEU:HD12	5:F:137:GLY:H	1.67	0.59
5:F:194:LEU:HD13	5:F:194:LEU:C	2.28	0.59
5:F:408:LEU:HD23	5:F:409:LYS:N	2.17	0.59
1:K:215:VAL:HG23	1:K:216:GLU:N	2.18	0.59
2:M:755:LEU:O	2:M:756:VAL:HG23	2.03	0.59
3:N:754:PHE:HA	4:O:24:ALA:HB1	1.83	0.59
3:N:786:ILE:HD13	3:N:1027:GLY:HA3	1.83	0.59
3:N:806:PHE:HD1	3:N:812:ALA:HB3	1.67	0.59
5:P:77:THR:O	5:P:81:VAL:HG23	2.01	0.59
5:P:266:GLU:O	5:P:270:LYS:HG3	2.03	0.59
1:A:42:ARG:NH1	2:C:857:ASP:HB3	2.17	0.59
3:D:90:MET:HE1	3:D:518:PRO:HB2	1.83	0.59
3:D:598:ARG:NH1	5:F:319:THR:HA	1.97	0.59
1:K:222:LEU:HD12	1:L:215:VAL:HB	1.82	0.59
2:M:91:GLN:HG2	2:M:119:PRO:HG3	1.84	0.59
2:M:325:ILE:HD12	2:M:325:ILE:N	2.17	0.59
2:M:359:MET:O	2:M:359:MET:HE2	2.02	0.59
2:M:470:PRO:HG3	2:M:485:TYR:CZ	2.37	0.59
2:M:557:ARG:HD3	2:M:879:ARG:HG2	1.83	0.59
3:N:15:PRO:HB3	3:N:19:ARG:HH12	1.67	0.59
3:N:125:GLN:OE1	3:N:587:ARG:NH2	2.36	0.59
3:N:525:ARG:N	3:N:526:PRO:CD	2.66	0.59
3:N:604:THR:C	3:N:606:ILE:N	2.57	0.59
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.01	0.59
2:C:66:LEU:HD13	2:C:100:LEU:HB3	1.84	0.59
2:C:946:ARG:NH1	2:C:984:GLU:HG3	2.16	0.59
3:D:10:ILE:CD1	3:D:1434:TRP:NE1	2.65	0.59
3:D:642:CYS:HB3	3:D:716:PHE:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:755:ALA:HA	3:D:758:GLU:HG2	1.84	0.59
3:D:1154:GLU:CG	3:D:1159:ARG:HG2	2.32	0.59
3:D:1397:LYS:O	3:D:1400:VAL:HB	2.02	0.59
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.67	0.59
3:N:715:ALA:O	3:N:764:LEU:HD12	2.02	0.59
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.85	0.59
5:P:398:ARG:HG2	5:P:398:ARG:HH11	1.66	0.59
3:D:163:TYR:CZ	3:D:394:LEU:HD21	2.38	0.59
3:D:177:ALA:CA	3:D:199:LEU:HD13	2.32	0.59
3:D:553:ARG:HD3	5:F:214:GLN:HB3	1.83	0.59
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.02	0.59
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.83	0.59
4:E:40:LEU:HD22	4:E:45:ARG:CZ	2.32	0.59
1:L:206:THR:HG22	1:L:209:GLU:CG	2.32	0.59
2:M:44:ILE:HD11	2:M:340:MET:CE	2.33	0.59
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.17	0.59
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.84	0.59
2:M:710:ILE:HB	2:M:790:LEU:HD22	1.84	0.59
3:N:231:VAL:HG12	3:N:378:ILE:HG23	1.84	0.59
3:N:571:LYS:HB2	3:N:571:LYS:NZ	2.18	0.59
3:N:681:ARG:HG3	3:N:682:ASP:OD1	2.03	0.59
3:N:710:ARG:NH1	3:N:772:PRO:HG2	2.15	0.59
3:N:1161:GLU:HG3	3:N:1164:ARG:HB2	1.83	0.59
3:N:1228:SER:C	3:N:1229:ILE:HG13	2.27	0.59
3:N:1277:ILE:HG22	3:N:1278:ASP:H	1.67	0.59
4:O:40:LEU:HD21	4:O:67:GLU:HA	1.83	0.59
5:P:264:MET:HE2	5:P:264:MET:HA	1.85	0.59
1:B:62:LEU:HD13	1:B:63:HIS:CD2	2.37	0.59
2:C:203:ASP:O	2:C:207:LEU:HB2	2.03	0.59
2:C:697:ARG:O	2:C:699:PHE:N	2.36	0.59
2:C:897:LEU:HD11	2:C:920:GLN:HG2	1.85	0.59
2:C:1029:GLY:O	3:D:622:ARG:HD3	2.01	0.59
3:D:645:PRO:O	3:D:646:LYS:C	2.45	0.59
3:D:762:GLN:NE2	4:E:20:THR:OG1	2.34	0.59
3:D:925:GLU:HG2	4:E:7:ASP:OD2	2.03	0.59
4:E:82:GLU:CD	4:E:82:GLU:N	2.45	0.59
2:M:15:LEU:HB2	2:M:586:ARG:NH2	2.18	0.59
2:M:564:MET:HE2	2:M:997:LEU:CD1	2.31	0.59
2:M:742:VAL:HG12	2:M:743:VAL:H	1.66	0.59
2:M:1097:LEU:HD21	3:N:103:TRP:HZ3	1.68	0.59
3:N:12:LEU:CB	3:N:507:ASN:HD22	2.09	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:128:TYR:CE1	3:N:461:ILE:HG13	2.37	0.59
3:N:427:VAL:CB	3:N:435:VAL:HB	2.31	0.59
3:N:558:LEU:HD13	5:P:145:PRO:CA	2.32	0.59
3:N:1096:ARG:HG2	3:N:1096:ARG:NH1	2.16	0.59
5:P:181:GLU:OE2	5:P:184:ARG:HG2	2.01	0.59
5:P:229:TYR:HD1	5:P:229:TYR:H	1.51	0.59
1:A:77:GLU:HB2	2:C:640:ARG:NH2	2.18	0.59
1:A:161:ARG:HH11	1:A:161:ARG:HG3	1.67	0.59
1:A:180:GLN:NE2	2:C:934:PHE:HB2	2.17	0.59
2:C:99:GLN:HG3	2:C:99:GLN:O	2.03	0.59
2:C:227:PHE:HA	2:C:230:ARG:CZ	2.32	0.59
2:C:455:LEU:HD13	2:C:459:ALA:HB3	1.83	0.59
2:C:673:LEU:HG	2:C:990:GLY:O	2.02	0.59
3:D:218:LYS:HD3	3:D:370:ALA:C	2.27	0.59
3:D:583:ASP:OD2	3:D:604:THR:HB	2.03	0.59
3:D:795:VAL:CG1	3:D:863:VAL:HG22	2.33	0.59
3:D:1109:GLU:OE1	3:D:1110:ALA:C	2.46	0.59
3:D:1229:ILE:CD1	3:D:1368:ILE:HG12	2.30	0.59
5:F:76:SER:O	5:F:78:SER:N	2.36	0.59
5:F:309:LYS:O	5:F:312:GLN:HG3	2.02	0.59
5:F:386:VAL:C	5:F:388:ALA:H	2.10	0.59
2:M:626:ARG:HG2	2:M:629:TYR:CD1	2.38	0.59
2:M:801:VAL:O	2:M:802:ARG:HB2	2.00	0.59
5:P:403:LYS:O	5:P:407:LYS:HG2	2.02	0.59
2:C:140:ILE:HA	2:C:332:ARG:O	2.02	0.59
2:C:192:PRO:HB2	2:C:195:LEU:HB2	1.85	0.59
2:C:842:ARG:NH2	2:C:887:GLU:CD	2.61	0.59
3:D:118:LEU:O	3:D:120:ALA:N	2.36	0.59
3:D:521:PRO:O	3:D:525:ARG:NH1	2.36	0.59
3:D:554:LEU:HD13	3:D:554:LEU:C	2.28	0.59
3:D:752:SER:C	3:D:754:PHE:H	2.11	0.59
3:D:789:LEU:HD13	3:D:882:PHE:HE1	1.67	0.59
1:L:115:LEU:HD12	1:L:115:LEU:O	2.03	0.59
2:M:64:LEU:O	2:M:65:VAL:HG13	2.03	0.59
3:N:84:ILE:C	3:N:86:ARG:N	2.55	0.59
3:N:172:PRO:HB3	3:N:178:LEU:HD22	1.84	0.59
3:N:411:THR:HG22	3:N:412:GLY:H	1.67	0.59
2:C:1021:LEU:HG	2:C:1022:GLY:H	1.67	0.59
3:D:739:ASP:OD2	3:D:741:ASP:OD2	2.20	0.59
3:D:785:ILE:HG13	3:D:939:PHE:CE2	2.38	0.59
3:D:1258:ARG:O	3:D:1260:ILE:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.85	0.59
5:F:269:ASN:HB3	5:F:273:ARG:NH2	2.04	0.59
2:M:183:SER:CB	2:M:190:LYS:HG2	2.29	0.59
2:M:244:PRO:CG	2:M:245:GLY:H	2.15	0.59
3:N:99:ALA:HB1	3:N:575:GLN:OE1	2.03	0.59
3:N:899:LEU:HD22	3:N:900:ILE:N	2.17	0.59
3:N:1046:GLN:HG3	3:N:1047:LYS:O	2.03	0.59
3:N:1377:LYS:HE2	3:N:1394:VAL:HG22	1.85	0.59
5:P:401:GLU:O	5:P:405:LEU:HB2	2.03	0.59
2:C:289:THR:HG22	2:C:290:LEU:H	1.67	0.59
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.28	0.59
3:D:93:ILE:CD1	3:D:547:LEU:HD23	2.32	0.59
3:D:237:LYS:HB3	3:D:238:PRO:CD	2.25	0.59
3:D:568:ARG:HA	3:D:571:LYS:HZ2	1.63	0.59
3:D:609:GLY:HA3	3:D:614:PHE:N	2.16	0.59
3:D:875:THR:HG22	3:D:879:ARG:HD2	1.84	0.59
2:M:200:LEU:HD22	2:M:300:ASP:OD1	2.03	0.59
2:M:276:LYS:O	2:M:279:GLU:HG2	2.02	0.59
2:M:368:THR:HB	2:M:369:PRO:HD3	1.85	0.59
2:M:1037:VAL:HG12	2:M:1041:GLU:CD	2.27	0.59
3:N:947:ILE:HG13	3:N:947:ILE:O	2.02	0.59
3:N:1389:LEU:H	3:N:1389:LEU:CD2	2.15	0.59
5:P:377:ASP:CG	5:P:378:GLY:H	2.10	0.59
1:B:14:ARG:HH11	1:B:14:ARG:HG3	1.68	0.58
2:C:108:ILE:HD11	2:C:365:ASP:OD1	2.03	0.58
2:C:408:ARG:HH11	2:C:542:VAL:CG2	2.16	0.58
3:D:19:ARG:NE	3:D:94:GLU:OE2	2.34	0.58
3:D:976:GLN:C	3:D:978:TYR:H	2.11	0.58
3:D:1209:LEU:HD23	3:D:1211:MET:SD	2.43	0.58
5:F:139:ALA:HB1	5:F:152:ASP:HB3	1.85	0.58
5:F:261:PRO:O	5:F:265:VAL:HG23	2.02	0.58
5:F:355:GLU:O	5:F:358:LEU:HB3	2.03	0.58
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.27	0.58
2:M:404:LEU:HG	2:M:404:LEU:O	2.02	0.58
2:M:432:ARG:HH22	3:N:1047:LYS:CG	2.15	0.58
2:M:432:ARG:HD3	3:N:1048:PRO:HG2	1.84	0.58
2:M:703:ILE:HG12	2:M:830:LYS:HG2	1.84	0.58
2:M:1039:ALA:CB	3:N:713:ILE:HD12	2.32	0.58
3:N:187:LYS:HZ1	3:N:213:VAL:CG1	2.16	0.58
3:N:188:GLY:HA2	3:N:210:ARG:HH11	1.67	0.58
3:N:646:LYS:HG2	3:N:721:VAL:O	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:702:LEU:HD12	3:N:747:VAL:HB	1.84	0.58
5:P:247:ILE:O	5:P:250:ALA:HB3	2.03	0.58
2:C:572:ILE:CD1	2:C:701:THR:HB	2.33	0.58
3:D:646:LYS:O	3:D:649:ALA:HB3	2.03	0.58
3:D:790:TYR:CD2	3:D:1026:SER:HB3	2.37	0.58
3:D:1065:LEU:CD1	3:D:1069:GLU:HB3	2.33	0.58
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.85	0.58
1:L:47:SER:HB3	1:L:217:ILE:HD13	1.85	0.58
2:M:1102:LEU:O	3:N:4:GLU:O	2.20	0.58
3:N:190:GLU:CD	3:N:190:GLU:H	2.11	0.58
3:N:845:ASN:ND2	3:N:846:PRO:HD2	2.18	0.58
3:N:1058:ARG:HH11	3:N:1058:ARG:CG	2.16	0.58
3:N:1078:ARG:O	3:N:1079:LYS:C	2.45	0.58
3:N:1273:VAL:HG21	3:N:1305:LEU:HD21	1.85	0.58
5:P:138:SER:C	5:P:140:ARG:N	2.60	0.58
1:A:62:LEU:HD22	2:C:745:ILE:HG21	1.86	0.58
1:A:99:LEU:HD12	1:A:99:LEU:N	2.18	0.58
2:C:89:THR:HG23	2:C:129:ILE:HA	1.84	0.58
2:C:722:ILE:HD11	2:C:823:VAL:HG21	1.85	0.58
3:D:119:SER:O	3:D:121:THR:N	2.35	0.58
3:D:530:VAL:HB	3:D:534:ARG:CB	2.33	0.58
3:D:820:GLU:HG2	3:D:825:ALA:O	2.03	0.58
3:D:1081:GLY:C	3:D:1083:ASP:H	2.12	0.58
2:C:101:ILE:HG22	2:C:102:HIS:N	2.17	0.58
2:C:256:TYR:HE1	2:C:293:PHE:HB2	1.67	0.58
3:D:704:ARG:HH11	3:D:738:ALA:HB2	1.68	0.58
4:E:51:LEU:HG	4:E:52:GLU:H	1.67	0.58
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.86	0.58
3:N:126:VAL:HG13	3:N:132:TYR:CB	2.30	0.58
3:N:978:TYR:HE1	3:N:985:ASP:HA	1.68	0.58
3:N:1292:VAL:HG11	3:N:1325:LEU:HD23	1.85	0.58
3:N:1479:ASP:HA	3:N:1482:ARG:HB2	1.86	0.58
5:P:196:VAL:HG22	5:P:213:ILE:HD11	1.83	0.58
2:C:122:THR:HG22	2:C:124:ASP:H	1.68	0.58
2:C:430:VAL:HG13	3:D:1075:HIS:HA	1.86	0.58
2:C:1104:GLU:N	2:C:1104:GLU:OE1	2.36	0.58
3:D:127:LEU:C	3:D:127:LEU:HD12	2.28	0.58
3:D:860:LEU:HB2	3:D:861:GLN:HE21	1.69	0.58
3:D:1094:LEU:O	3:D:1095:THR:C	2.47	0.58
3:D:1304:LYS:H	3:D:1304:LYS:CD	2.17	0.58
1:L:132:LEU:HD21	1:L:138:LEU:CB	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:233:LYS:HD2	3:N:237:LYS:HZ3	1.68	0.58
3:N:792:ILE:HG23	3:N:793:THR:CG2	2.32	0.58
5:P:376:ILE:HG22	5:P:377:ASP:N	2.18	0.58
1:A:175:ARG:O	1:A:176:ARG:HG3	2.03	0.58
2:C:976:ASP:HB3	2:C:979:THR:HG22	1.86	0.58
3:D:26:VAL:CG1	3:D:44:LEU:HD23	2.24	0.58
3:D:223:LEU:HA	3:D:365:ASP:HB2	1.86	0.58
3:D:669:ASN:O	3:D:672:ALA:HB3	2.04	0.58
3:D:710:ARG:HG3	3:D:711:LEU:N	2.19	0.58
3:D:1018:ASN:O	3:D:1022:VAL:HG23	2.04	0.58
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.15	0.58
3:D:1156:LEU:HD11	3:D:1177:ALA:HA	1.85	0.58
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.85	0.58
3:D:1426:LYS:C	3:D:1428:ALA:H	2.12	0.58
5:F:358:LEU:HD11	5:F:370:LYS:CD	2.34	0.58
2:M:47:ALA:HB1	2:M:345:ARG:HB2	1.84	0.58
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.85	0.58
2:M:427:VAL:C	2:M:429:ASP:H	2.11	0.58
2:M:751:PRO:HA	2:M:792:VAL:HB	1.85	0.58
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.34	0.58
3:N:473:LEU:HD12	3:N:476:GLU:CD	2.29	0.58
3:N:906:GLN:HA	3:N:906:GLN:OE1	2.03	0.58
3:N:1015:TYR:C	3:N:1017:PHE:H	2.12	0.58
3:N:1141:GLU:HB3	3:N:1168:MET:HE1	1.85	0.58
3:N:1219:GLU:HG2	3:N:1221:VAL:CG2	2.31	0.58
3:N:1495:ILE:CD1	4:O:88:GLU:HG3	2.34	0.58
5:P:243:ILE:O	5:P:247:ILE:HG13	2.03	0.58
1:A:38:ASN:O	1:A:39:PRO:C	2.42	0.58
2:C:172:ILE:HA	2:C:185:LYS:O	2.02	0.58
2:C:605:LYS:HD3	2:C:610:ARG:CZ	2.33	0.58
2:C:679:PHE:CE2	2:C:853:LEU:HD21	2.38	0.58
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.86	0.58
3:D:502:PHE:CD2	3:D:509:PRO:HB3	2.39	0.58
5:F:78:SER:HB2	5:F:82:ARG:NH2	2.19	0.58
1:K:189:ARG:HH11	1:L:155:LYS:HZ1	1.52	0.58
2:M:124:ASP:HB2	2:M:407:LYS:HZ2	1.68	0.58
2:M:288:ARG:HA	2:M:288:ARG:CZ	2.33	0.58
2:M:909:ALA:HA	2:M:913:GLU:OE1	2.03	0.58
2:M:1032:PHE:CZ	2:M:1052:MET:HG2	2.38	0.58
3:N:137:PRO:CB	3:N:138:LYS:HD2	2.34	0.58
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:807:ALA:CB	3:N:833:GLU:HB2	2.33	0.58
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.38	0.58
3:N:1215:VAL:HG22	3:N:1216:SER:N	2.19	0.58
5:P:343:ASP:O	5:P:346:THR:HB	2.04	0.58
1:A:51:THR:CG2	1:A:146:ARG:HA	2.34	0.58
2:C:286:SER:HB2	2:C:299:LYS:NZ	2.19	0.58
2:C:749:VAL:HG23	2:C:749:VAL:O	2.03	0.58
3:D:65:ARG:HG3	3:D:66:GLN:H	1.67	0.58
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.85	0.58
3:D:1031:ASN:HD21	3:D:1033:GLN:HB3	1.69	0.58
3:D:1231:GLU:HB3	3:D:1232:PRO:CD	2.31	0.58
1:K:50:GLY:O	1:K:146:ARG:HG2	2.02	0.58
1:K:194:LYS:O	1:K:196:THR:HG22	2.02	0.58
1:K:225:PHE:HE2	1:L:211:LEU:HD11	1.68	0.58
2:M:722:ILE:O	2:M:722:ILE:HG12	2.04	0.58
2:M:841:ASN:OD1	2:M:843:HIS:HB2	2.04	0.58
3:N:601:ARG:HH22	3:N:611:GLN:N	2.02	0.58
3:N:645:PRO:O	3:N:646:LYS:C	2.46	0.58
3:N:1135:ARG:O	3:N:1136:LYS:C	2.46	0.58
4:O:61:GLU:OE1	4:O:65:MET:HE2	2.04	0.58
1:B:115:LEU:HD12	1:B:115:LEU:O	2.04	0.58
2:C:517:ARG:NH2	2:C:524:VAL:HG23	2.19	0.58
2:C:1005:MET:HE2	3:D:648:MET:CE	2.33	0.58
2:C:1010:THR:HG22	2:C:1011:GLY:H	1.66	0.58
3:D:1087:ARG:CZ	3:D:1236:LEU:O	2.52	0.58
1:K:39:PRO:HA	1:L:35:THR:HG23	1.86	0.58
1:K:50:GLY:HA3	1:K:171:PHE:O	2.04	0.58
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.84	0.58
2:M:173:ASP:HB2	2:M:185:LYS:HE3	1.86	0.58
2:M:599:GLU:HA	2:M:651:LYS:CG	2.33	0.58
3:N:625:TYR:CE2	3:N:751:LEU:HD21	2.38	0.58
3:N:1122:LEU:HD23	3:N:1178:ALA:HB2	1.85	0.58
3:N:1383:ASP:N	3:N:1384:PRO:HD3	2.19	0.58
5:P:110:MET:HE2	5:P:111:GLU:HG3	1.86	0.58
5:P:346:THR:O	5:P:347:GLN:C	2.46	0.58
5:P:367:MET:O	5:P:371:LEU:HG	2.04	0.58
2:C:162:ILE:HD12	2:C:172:ILE:HD13	1.86	0.58
2:C:302:VAL:O	2:C:305:PRO:HD2	2.03	0.58
2:C:869:VAL:O	2:C:870:ILE:HG13	2.03	0.58
5:F:201:LYS:C	5:F:203:THR:H	2.12	0.58
2:M:160:ALA:HB3	2:M:174:LEU:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:344:PHE:HD2	2:M:382:ILE:HD11	1.68	0.58
2:M:749:VAL:HG11	2:M:755:LEU:HD23	1.86	0.58
2:M:846:LYS:NZ	3:N:741:ASP:O	2.37	0.58
2:M:1047:HIS:CD2	3:N:754:PHE:CD2	2.91	0.58
3:N:553:ARG:CD	5:P:214:GLN:HB3	2.33	0.58
5:P:398:ARG:HD3	5:P:399:GLN:H	1.67	0.58
5:P:406:ARG:CA	5:P:409:LYS:HE2	2.32	0.58
2:C:494:TYR:HB3	2:C:530:GLU:OE2	2.04	0.57
2:C:802:ARG:HH12	2:C:804:VAL:HG22	1.68	0.57
3:D:231:VAL:HA	3:D:378:ILE:HG13	1.86	0.57
5:F:358:LEU:HD11	5:F:370:LYS:HD2	1.85	0.57
5:F:416:ARG:NH2	5:F:419:ARG:HD3	2.18	0.57
1:L:223:THR:C	1:L:225:PHE:H	2.10	0.57
2:M:449:ILE:HG23	2:M:449:ILE:O	2.03	0.57
3:N:166:GLN:NE2	3:N:167:GLU:H	2.02	0.57
3:N:170:PRO:HD2	3:N:391:ALA:O	2.04	0.57
3:N:185:VAL:HA	3:N:189:GLN:HG3	1.86	0.57
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.86	0.57
3:N:1220:ALA:O	3:N:1223:ILE:HG22	2.03	0.57
5:P:257:THR:HB	5:P:314:PRO:HG2	1.86	0.57
5:P:273:ARG:O	5:P:276:ARG:HB2	2.04	0.57
1:A:90:LEU:HD12	1:A:119:ASP:C	2.28	0.57
2:C:192:PRO:HB2	2:C:195:LEU:CB	2.35	0.57
2:C:328:LEU:HD13	2:C:433:THR:CG2	2.34	0.57
2:C:615:TYR:C	2:C:617:ASP:H	2.12	0.57
2:C:799:ILE:HD13	2:C:799:ILE:N	2.11	0.57
2:C:1095:LEU:HA	3:D:582:LEU:CD2	2.35	0.57
3:D:178:LEU:HD23	3:D:178:LEU:O	2.03	0.57
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.69	0.57
5:F:94:LEU:HD13	5:F:95:THR:N	2.19	0.57
2:M:705:ILE:HG12	2:M:828:ALA:HB2	1.86	0.57
3:N:1267:ARG:NE	3:N:1271:LYS:HG3	2.19	0.57
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.04	0.57
3:N:1336:LEU:HD22	3:N:1421:LEU:HB2	1.85	0.57
5:P:365:GLU:O	5:P:368:VAL:HB	2.04	0.57
1:A:152:PRO:HD2	1:A:155:LYS:CD	2.32	0.57
1:A:211:LEU:O	1:A:211:LEU:HG	2.03	0.57
2:C:250:ARG:NH2	2:C:253:ALA:HB1	2.20	0.57
2:C:1049:LEU:HD23	3:D:1472:ILE:HD11	1.85	0.57
3:D:923:GLY:O	3:D:927:THR:OG1	2.15	0.57
3:D:964:LEU:HD22	3:D:1058:ARG:HG3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.85	0.57
4:E:70:THR:O	4:E:72:ARG:N	2.37	0.57
2:M:326:ASP:O	2:M:327:HIS:C	2.47	0.57
2:M:551:GLU:C	2:M:553:ASP:H	2.12	0.57
2:M:737:LEU:HD11	2:M:754:ILE:HG21	1.85	0.57
2:M:910:LYS:O	2:M:913:GLU:N	2.37	0.57
2:M:1097:LEU:H	2:M:1097:LEU:CD1	2.16	0.57
3:N:224:ARG:HH12	3:N:229:ALA:HB2	1.69	0.57
3:N:826:PRO:HD2	3:N:829:VAL:CG1	2.34	0.57
1:A:7:LYS:NZ	1:A:188:GLN:NE2	2.52	0.57
2:C:3:ILE:CD1	2:C:900:ARG:HG3	2.33	0.57
2:C:193:LEU:HG	2:C:307:LEU:HD22	1.86	0.57
3:D:1065:LEU:HD11	3:D:1069:GLU:HB3	1.87	0.57
3:D:1074:SER:O	3:D:1075:HIS:C	2.45	0.57
3:D:1346:ARG:HH22	3:D:1349:VAL:HG11	1.67	0.57
5:F:98:GLU:HA	5:F:101:GLU:HB2	1.86	0.57
2:M:583:LEU:O	2:M:587:VAL:HG23	2.03	0.57
2:M:700:TYR:CG	2:M:833:LEU:HD22	2.40	0.57
3:N:558:LEU:O	3:N:559:ALA:C	2.48	0.57
3:N:785:ILE:HD11	3:N:939:PHE:CE2	2.39	0.57
3:N:896:ALA:O	3:N:899:LEU:HD13	2.04	0.57
3:N:1166:LEU:H	3:N:1166:LEU:CD2	2.17	0.57
4:O:23:VAL:HG13	4:O:64:ALA:HB3	1.86	0.57
5:P:77:THR:O	5:P:80:PRO:HD2	2.03	0.57
5:P:287:THR:HG23	5:P:290:GLU:H	1.70	0.57
5:P:376:ILE:CG2	5:P:377:ASP:H	2.13	0.57
2:C:30:LEU:HD12	2:C:30:LEU:O	2.04	0.57
2:C:593:ALA:HB1	2:C:659:PRO:HD2	1.87	0.57
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.85	0.57
2:C:1081:VAL:HB	2:C:1086:ARG:HH21	1.70	0.57
3:D:388:HIS:NE2	5:F:94:LEU:HG	2.20	0.57
3:D:699:VAL:H	3:D:756:GLN:NE2	1.95	0.57
3:D:699:VAL:N	3:D:756:GLN:HE22	1.94	0.57
3:D:806:PHE:O	3:D:808:THR:N	2.37	0.57
3:D:906:GLN:OE1	3:D:906:GLN:HA	2.04	0.57
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.87	0.57
4:E:25:LYS:HA	4:E:28:GLN:OE1	2.04	0.57
5:F:77:THR:C	5:F:80:PRO:HD2	2.29	0.57
5:F:291:ILE:HD13	5:F:304:VAL:HG11	1.86	0.57
2:M:683:ASN:CA	2:M:687:ALA:HB3	2.33	0.57
3:N:1442:ASN:O	3:N:1443:THR:C	2.46	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1466:VAL:HG12	3:N:1467:ILE:N	2.18	0.57
1:A:8:ALA:O	1:A:9:PRO:C	2.45	0.57
1:A:30:ARG:HG3	2:C:938:LYS:HZ1	1.69	0.57
1:A:227:ASN:H	1:A:227:ASN:HD22	1.50	0.57
1:B:74:ASP:O	1:B:78:ILE:HG13	2.05	0.57
2:C:140:ILE:HG21	2:C:331:ARG:NH1	2.19	0.57
2:C:846:LYS:NZ	3:D:741:ASP:O	2.38	0.57
3:D:387:LEU:HD13	5:F:97:GLU:HB2	1.87	0.57
3:D:1036:ARG:HH21	3:D:1037:GLN:HG2	1.69	0.57
5:F:105:LYS:O	5:F:180:GLY:HA2	2.05	0.57
2:M:470:PRO:HG3	2:M:485:TYR:OH	2.05	0.57
2:M:709:GLU:OE2	2:M:824:ARG:NH1	2.38	0.57
3:N:414:ARG:HB2	3:N:418:GLY:O	2.05	0.57
3:N:517:VAL:HG12	3:N:518:PRO:O	2.04	0.57
3:N:812:ALA:O	3:N:816:HIS:HB2	2.05	0.57
5:P:295:MET:HE2	5:P:295:MET:HA	1.86	0.57
1:A:35:THR:O	1:A:35:THR:HG22	2.04	0.57
2:C:548:PRO:HG2	2:C:842:ARG:NH2	2.20	0.57
2:C:569:VAL:HG23	2:C:635:THR:HG22	1.86	0.57
2:C:748:GLU:HA	2:C:799:ILE:HA	1.85	0.57
2:C:805:ARG:HG3	2:C:823:VAL:HG22	1.87	0.57
2:C:979:THR:O	2:C:981:GLU:N	2.34	0.57
2:C:1046:ALA:HB1	3:D:1472:ILE:HB	1.86	0.57
3:D:530:VAL:N	3:D:534:ARG:O	2.35	0.57
3:D:833:GLU:HG2	3:D:834:THR:HG23	1.87	0.57
3:D:1071:PHE:O	3:D:1071:PHE:HD1	1.87	0.57
3:D:1201:CYS:SG	3:D:1204:CYS:HB2	2.44	0.57
3:D:1209:LEU:O	3:D:1210:SER:C	2.46	0.57
1:K:227:ASN:CG	1:K:227:ASN:O	2.48	0.57
2:M:498:GLN:CG	2:M:516:ARG:HE	2.18	0.57
2:M:893:ALA:HB2	2:M:918:LEU:HD12	1.87	0.57
3:N:84:ILE:O	3:N:85:VAL:C	2.46	0.57
3:N:131:LYS:HD2	5:P:83:GLN:HE22	1.69	0.57
3:N:423:ASP:H	5:P:178:ARG:NH1	2.03	0.57
3:N:570:GLU:C	3:N:572:ARG:N	2.63	0.57
3:N:900:ILE:C	3:N:901:GLN:HG2	2.30	0.57
3:N:1106:VAL:HG12	3:N:1107:VAL:N	2.18	0.57
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.05	0.57
1:A:44:LEU:HA	1:A:48:ILE:CD1	2.35	0.57
1:A:210:ALA:O	1:A:212:ASN:N	2.38	0.57
1:B:189:ARG:HG3	1:B:189:ARG:NH1	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:714:GLN:HB3	3:D:765:SER:HB3	1.86	0.57
3:D:919:PHE:C	3:D:919:PHE:CD2	2.79	0.57
5:F:241:TRP:O	5:F:245:GLN:OE1	2.21	0.57
3:N:135:LEU:HG	3:N:153:LEU:HD21	1.86	0.57
3:N:423:ASP:OD2	5:P:174:LEU:HD22	2.04	0.57
3:N:1376:MET:HE3	3:N:1421:LEU:CD1	2.34	0.57
2:C:395:LYS:O	2:C:397:GLU:HG2	2.04	0.57
2:C:979:THR:C	2:C:981:GLU:N	2.63	0.57
2:C:1005:MET:SD	3:D:648:MET:HB2	2.44	0.57
2:C:1045:ALA:HB2	3:D:758:GLU:OE2	2.05	0.57
3:D:572:ARG:NE	5:F:80:PRO:HG3	2.20	0.57
3:D:771:SER:HB2	3:D:778:LEU:HD22	1.86	0.57
5:F:393:THR:HG22	5:F:394:ARG:H	1.70	0.57
1:L:154:GLU:OE1	3:N:840:LYS:HG3	2.05	0.57
2:M:208:ALA:CB	2:M:218:VAL:HG11	2.35	0.57
2:M:211:LEU:HD11	2:M:308:ARG:HB2	1.86	0.57
2:M:355:VAL:HG23	2:M:372:LEU:HB3	1.87	0.57
2:M:1063:ARG:O	2:M:1066:ALA:N	2.36	0.57
3:N:96:ALA:N	3:N:551:ASN:HD21	2.03	0.57
3:N:1314:LYS:H	3:N:1314:LYS:CD	2.18	0.57
5:P:88:ILE:O	5:P:92:PRO:HG3	2.04	0.57
2:C:549:PHE:HE2	2:C:887:GLU:CA	2.18	0.57
3:D:72:VAL:HG22	3:D:73:CYS:N	2.19	0.57
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	1.86	0.57
3:D:1267:ARG:NH2	3:D:1271:LYS:HE3	2.19	0.57
1:K:24:VAL:HG22	1:K:196:THR:HB	1.87	0.57
2:M:269:LEU:HA	2:M:288:ARG:NE	2.14	0.57
2:M:838:LYS:HD3	2:M:846:LYS:NZ	2.18	0.57
3:N:37:LEU:CD1	3:N:529:GLN:HE21	2.15	0.57
3:N:84:ILE:C	3:N:86:ARG:H	2.10	0.57
3:N:486:ARG:CZ	3:N:489:ARG:HD3	2.35	0.57
3:N:579:ASP:O	3:N:583:ASP:N	2.34	0.57
3:N:1382:THR:C	3:N:1384:PRO:HD3	2.29	0.57
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.86	0.57
2:C:462:ASP:CG	2:C:463:GLU:H	2.11	0.56
2:C:469:THR:HG23	2:C:471:TYR:HE1	1.69	0.56
3:D:498:VAL:HG13	3:D:499:VAL:N	2.19	0.56
3:D:564:GLU:O	3:D:566:ILE:N	2.37	0.56
3:D:907:GLU:HG3	3:D:1026:SER:HA	1.87	0.56
1:L:142:VAL:HG23	1:L:142:VAL:O	2.05	0.56
2:M:490:GLU:O	2:M:493:ARG:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:640:ARG:HB2	2:M:642:ARG:HH12	1.69	0.56
3:N:86:ARG:O	3:N:522:PRO:HD2	2.05	0.56
3:N:600:LEU:CD2	3:N:600:LEU:H	2.12	0.56
5:P:171:LYS:O	5:P:175:HIS:HD2	1.88	0.56
5:P:203:THR:HG22	5:P:204:GLY:N	2.20	0.56
5:P:225:GLU:HG2	5:P:226:LYS:NZ	2.20	0.56
5:P:286:PRO:HB3	5:P:290:GLU:HB3	1.86	0.56
1:B:108:GLU:O	1:B:110:LYS:HG3	2.05	0.56
1:B:197:LEU:O	1:B:197:LEU:HD23	2.05	0.56
2:C:55:GLU:HA	2:C:64:LEU:O	2.05	0.56
2:C:78:PHE:HB3	2:C:79:PRO:HD2	1.88	0.56
2:C:337:GLY:O	2:C:340:MET:N	2.37	0.56
2:C:433:THR:O	2:C:435:TYR:N	2.36	0.56
3:D:36:THR:O	3:D:38:LYS:N	2.38	0.56
3:D:571:LYS:NZ	3:D:571:LYS:HB2	2.20	0.56
3:D:1031:ASN:HB3	3:D:1034:GLN:NE2	2.20	0.56
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.69	0.56
1:K:39:PRO:O	1:K:43:ILE:HG12	2.04	0.56
1:L:58:ILE:HG22	1:L:59:GLU:HG2	1.87	0.56
2:M:742:VAL:HG12	2:M:743:VAL:N	2.20	0.56
3:N:55:ASP:CB	3:N:82:LYS:HE2	2.32	0.56
3:N:233:LYS:HB3	3:N:233:LYS:NZ	2.20	0.56
3:N:583:ASP:OD1	3:N:604:THR:HB	2.05	0.56
5:P:214:GLN:HA	5:P:217:ASN:ND2	2.17	0.56
1:A:30:ARG:HA	2:C:938:LYS:NZ	2.20	0.56
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.85	0.56
1:B:219:ARG:NH2	1:B:220:GLU:HB2	2.18	0.56
2:C:126:SER:HB3	2:C:395:LYS:NZ	2.20	0.56
2:C:374:ASN:O	2:C:377:PRO:HD2	2.05	0.56
2:C:384:GLU:HG2	2:C:384:GLU:O	2.05	0.56
2:C:691:SER:CB	2:C:868:ASP:HA	2.34	0.56
2:C:861:LEU:O	2:C:863:ASP:O	2.23	0.56
2:C:1081:VAL:HB	2:C:1086:ARG:NH2	2.21	0.56
3:D:34:TYR:HE2	5:F:260:ILE:HG13	1.70	0.56
3:D:85:VAL:HG12	3:D:89:ARG:NE	2.21	0.56
3:D:111:LYS:CE	3:D:1452:ILE:HG12	2.35	0.56
3:D:218:LYS:HD3	3:D:370:ALA:HB1	1.87	0.56
3:D:221:ALA:H	3:D:367:ILE:HG22	1.69	0.56
3:D:566:ILE:HG13	5:F:192:LEU:HD11	1.87	0.56
3:D:650:LEU:HD12	3:D:657:LEU:HD22	1.88	0.56
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:704:ARG:HE	3:D:705:ALA:HB3	1.70	0.56
3:D:860:LEU:HB2	3:D:861:GLN:NE2	2.19	0.56
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.88	0.56
5:F:95:THR:HG23	5:F:234:LYS:NZ	2.21	0.56
5:F:321:ILE:HD13	5:F:322:GLY:H	1.69	0.56
1:L:123:MET:C	1:L:125:PRO:HD3	2.29	0.56
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.87	0.56
2:M:78:PHE:HB3	2:M:79:PRO:HD2	1.87	0.56
2:M:575:GLN:NE2	2:M:900:ARG:HH22	2.03	0.56
2:M:1047:HIS:CE1	3:N:754:PHE:CD1	2.94	0.56
3:N:30:GLU:HG3	3:N:41:ARG:CD	2.35	0.56
3:N:96:ALA:N	3:N:551:ASN:ND2	2.52	0.56
3:N:436:GLU:HB2	3:N:445:ARG:CB	2.34	0.56
3:N:455:ARG:HH22	5:P:140:ARG:HB3	1.69	0.56
3:N:785:ILE:HG13	3:N:939:PHE:CE2	2.40	0.56
3:N:970:LYS:HD2	3:N:995:LEU:HD13	1.86	0.56
3:N:1090:ASP:C	3:N:1092:GLY:N	2.61	0.56
3:N:1161:GLU:CG	3:N:1164:ARG:HB2	2.34	0.56
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	1.87	0.56
4:O:29:GLN:NE2	4:O:89:MET:HE3	2.20	0.56
5:P:94:LEU:HD13	5:P:95:THR:N	2.20	0.56
5:P:234:LYS:HE3	5:P:236:SER:CB	2.35	0.56
1:A:88:ARG:HH12	1:A:90:LEU:HD21	1.70	0.56
1:B:112:ARG:HB3	1:B:112:ARG:NH1	2.20	0.56
2:C:200:LEU:CD2	2:C:300:ASP:HB3	2.31	0.56
2:C:804:VAL:HG23	2:C:824:ARG:HB2	1.87	0.56
2:C:944:LEU:HD21	2:C:963:LEU:CD2	2.35	0.56
3:D:9:ARG:NH1	3:D:11:ALA:HB2	2.21	0.56
3:D:117:ASP:OD1	3:D:495:ARG:NE	2.39	0.56
3:D:572:ARG:HH21	5:F:83:GLN:NE2	2.03	0.56
3:D:770:LEU:HD23	3:D:777:PRO:CA	2.27	0.56
3:D:940:THR:O	3:D:941:PHE:C	2.47	0.56
3:D:1167:SER:O	3:D:1171:VAL:HG23	2.06	0.56
3:D:1263:PHE:HD2	3:D:1375:MET:HE1	1.69	0.56
5:F:188:ILE:HD13	5:F:221:ILE:HG12	1.87	0.56
5:F:333:ILE:HD12	5:F:333:ILE:H	1.70	0.56
1:K:13:VAL:CG1	1:K:14:ARG:N	2.67	0.56
1:L:156:HIS:CD2	1:L:157:GLY:N	2.69	0.56
2:M:26:TYR:CE2	2:M:30:LEU:HD21	2.40	0.56
2:M:434:HIS:O	2:M:435:TYR:HB2	2.05	0.56
2:M:680:ASP:O	2:M:682:TYR:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:960:GLU:O	2:M:962:GLN:N	2.37	0.56
2:M:1044:GLY:N	3:N:762:GLN:HE22	2.02	0.56
3:N:127:LEU:HD12	3:N:127:LEU:O	2.04	0.56
3:N:194:GLY:N	3:N:206:ARG:HA	2.17	0.56
3:N:231:VAL:O	3:N:378:ILE:HD13	2.06	0.56
3:N:426:LYS:HA	3:N:434:ARG:CD	2.35	0.56
3:N:625:TYR:OH	3:N:655:PRO:HG2	2.05	0.56
3:N:930:LEU:O	3:N:933:ALA:HB3	2.05	0.56
3:N:1087:ARG:HD2	3:N:1087:ARG:N	2.21	0.56
3:N:1271:LYS:HD3	3:N:1271:LYS:C	2.31	0.56
5:P:102:LEU:O	5:P:103:ALA:C	2.47	0.56
5:P:226:LYS:HG3	5:P:242:TRP:CZ2	2.40	0.56
2:C:24:GLU:O	2:C:27:ARG:HB3	2.06	0.56
2:C:842:ARG:NH2	2:C:887:GLU:OE1	2.37	0.56
2:C:923:GLU:O	2:C:927:GLY:N	2.38	0.56
3:D:596:SER:C	3:D:598:ARG:H	2.13	0.56
3:D:785:ILE:HG23	3:D:938:GLY:HA3	1.86	0.56
3:D:914:LEU:HD23	3:D:914:LEU:O	2.06	0.56
3:D:984:THR:HG23	3:D:987:GLU:H	1.69	0.56
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.40	0.56
3:D:1066:THR:O	3:D:1070:TYR:HB2	2.05	0.56
3:D:1088:THR:O	3:D:1089:ALA:C	2.47	0.56
3:D:1161:GLU:O	3:D:1164:ARG:HB2	2.04	0.56
3:D:1357:ARG:C	3:D:1359:GLN:N	2.62	0.56
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.87	0.56
3:N:135:LEU:HD12	3:N:148:GLU:HB2	1.87	0.56
3:N:219:GLU:O	3:N:370:ALA:HB2	2.04	0.56
3:N:654:LYS:HB2	3:N:655:PRO:HD3	1.88	0.56
3:N:711:LEU:O	3:N:712:GLY:C	2.48	0.56
3:N:893:GLU:O	3:N:896:ALA:HB3	2.04	0.56
3:N:1027:GLY:O	3:N:1028:ALA:O	2.22	0.56
3:N:1115:THR:CB	3:N:1151:ARG:HH22	2.19	0.56
3:N:1302:GLU:O	3:N:1303:TYR:CD2	2.59	0.56
3:N:1459:LEU:HD12	3:N:1470:ARG:HH11	1.69	0.56
4:O:80:VAL:HG13	4:O:81:PRO:HD2	1.88	0.56
1:A:142:VAL:HG23	1:A:142:VAL:O	2.04	0.56
2:C:158:TYR:CE1	2:C:314:THR:HA	2.39	0.56
2:C:435:TYR:HD1	3:D:1071:PHE:CD2	2.23	0.56
2:C:480:THR:HG22	2:C:481:ASP:H	1.70	0.56
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.35	0.56
2:C:837:ASP:OD1	2:C:996:LYS:HG3	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:854:PRO:HB2	2:C:856:GLU:OE2	2.06	0.56
3:D:195:VAL:HB	3:D:205:TYR:HB2	1.86	0.56
3:D:547:LEU:O	3:D:548:ILE:C	2.48	0.56
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.35	0.56
5:F:244:ARG:HG3	5:F:244:ARG:HH11	1.70	0.56
2:M:102:HIS:NE2	2:M:365:ASP:OD2	2.39	0.56
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.69	0.56
3:N:1148:VAL:HG12	3:N:1189:ARG:HG3	1.87	0.56
3:N:1459:LEU:HD11	3:N:1468:LEU:CD1	2.35	0.56
1:B:89:PHE:HZ	1:B:144:VAL:HG12	1.70	0.56
2:C:148:PHE:HB3	2:C:313:LEU:CD2	2.35	0.56
2:C:195:LEU:O	2:C:199:VAL:HG23	2.06	0.56
2:C:902:ILE:HG22	2:C:904:PRO:HD3	1.86	0.56
2:C:916:GLU:OE1	2:C:917:LEU:N	2.38	0.56
2:C:967:PHE:CD1	2:C:972:VAL:HG12	2.41	0.56
2:C:1021:LEU:HG	2:C:1022:GLY:N	2.21	0.56
3:D:116:LEU:O	3:D:118:LEU:N	2.31	0.56
3:D:416:ALA:H	3:D:417:PRO:HD2	1.70	0.56
3:D:525:ARG:N	3:D:526:PRO:CD	2.69	0.56
3:D:581:LEU:O	3:D:603:LEU:HG	2.05	0.56
3:D:694:VAL:O	3:D:695:ILE:HD12	2.05	0.56
3:D:1396:GLU:O	3:D:1399:ASP:N	2.39	0.56
3:D:1404:ASN:CG	3:D:1408:ILE:HD12	2.31	0.56
1:K:215:VAL:HG23	1:K:216:GLU:H	1.69	0.56
1:L:221:HIS:HA	1:L:224:TYR:CE2	2.41	0.56
2:M:207:LEU:HD13	2:M:221:LEU:HD21	1.87	0.56
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.88	0.56
3:N:177:ALA:HB1	3:N:199:LEU:HD13	1.88	0.56
5:P:130:VAL:C	5:P:132:ARG:H	2.11	0.56
1:A:91:ASN:H	1:A:94:LEU:HD12	1.70	0.56
2:C:54:ILE:HG23	2:C:54:ILE:O	2.06	0.56
2:C:106:GLY:O	2:C:107:LEU:HD23	2.05	0.56
2:C:776:SER:OG	2:C:780:GLU:HB3	2.05	0.56
2:C:854:PRO:CB	2:C:856:GLU:OE2	2.54	0.56
3:D:424:GLY:N	3:D:437:VAL:HG23	2.21	0.56
3:D:659:LYS:C	3:D:659:LYS:HD3	2.30	0.56
3:D:895:VAL:C	3:D:897:TRP:H	2.14	0.56
3:D:951:ILE:O	3:D:951:ILE:HD13	2.05	0.56
3:D:1046:GLN:CA	3:D:1052:THR:HA	2.32	0.56
3:D:1146:GLY:O	3:D:1207:TYR:HB2	2.06	0.56
5:F:415:THR:HG21	5:F:417:LYS:HZ1	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:89:THR:HG23	2:M:129:ILE:HA	1.88	0.56
2:M:535:SER:OG	2:M:536:PRO:HD2	2.05	0.56
2:M:695:LEU:HD21	2:M:833:LEU:O	2.06	0.56
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.86	0.56
3:N:556:LYS:HZ1	5:P:218:GLN:HE22	1.53	0.56
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.41	0.56
3:N:1286:THR:HG22	3:N:1287:GLU:N	2.19	0.56
5:P:138:SER:H	5:P:140:ARG:CZ	2.18	0.56
5:P:222:ARG:O	5:P:225:GLU:HB3	2.06	0.56
1:A:210:ALA:C	1:A:212:ASN:H	2.12	0.56
1:A:210:ALA:C	1:A:212:ASN:N	2.64	0.56
1:B:219:ARG:HH21	1:B:220:GLU:CB	2.15	0.56
2:C:333:ILE:CG1	2:C:467:ILE:HD11	2.36	0.56
2:C:595:LEU:HD21	2:C:623:TYR:HB3	1.88	0.56
2:C:654:LEU:O	2:C:654:LEU:HG	2.05	0.56
3:D:368:VAL:HG12	3:D:369:ALA:H	1.70	0.56
3:D:387:LEU:HD23	3:D:388:HIS:H	1.70	0.56
3:D:764:LEU:HB3	3:D:767:HIS:CD2	2.31	0.56
3:D:916:TYR:CE2	3:D:920:LEU:HD13	2.41	0.56
3:D:984:THR:HG22	3:D:987:GLU:CG	2.36	0.56
5:F:151:LEU:HD12	5:F:154:LYS:HB3	1.88	0.56
5:F:411:HIS:CE1	5:F:412:GLU:HG2	2.41	0.56
2:M:432:ARG:CD	3:N:1048:PRO:HG2	2.36	0.56
2:M:892:LEU:O	2:M:895:TYR:HB3	2.06	0.56
3:N:386:HIS:C	3:N:387:LEU:HD13	2.31	0.56
3:N:560:GLN:HA	3:N:560:GLN:NE2	2.21	0.56
3:N:619:LEU:O	3:N:619:LEU:HD23	2.06	0.56
3:N:1141:GLU:HB3	3:N:1168:MET:CE	2.36	0.56
3:N:1335:LEU:HD22	3:N:1344:VAL:HG22	1.87	0.56
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.31	0.56
3:D:601:ARG:HH12	3:D:611:GLN:HB2	1.69	0.56
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	1.87	0.56
2:M:561:GLY:C	2:M:563:ASN:N	2.63	0.56
2:M:1052:MET:HE1	2:M:1056:LYS:HZ3	1.71	0.56
3:N:141:ILE:HD11	3:N:450:TYR:H	1.69	0.56
3:N:795:VAL:HG23	3:N:879:ARG:NH1	2.20	0.56
3:N:887:ALA:HB1	3:N:893:GLU:CG	2.21	0.56
3:N:1086:LEU:HD23	3:N:1238:MET:SD	2.45	0.56
3:N:1115:THR:HB	3:N:1151:ARG:HH22	1.69	0.56
3:N:1236:LEU:HD11	3:N:1356:TYR:CE2	2.41	0.56
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:170:VAL:CG1	2:C:696:LYS:HD3	2.36	0.55
1:B:151:VAL:HB	1:B:169:ALA:CB	2.35	0.55
2:C:139:GLN:O	2:C:333:ILE:HA	2.06	0.55
2:C:724:ARG:C	2:C:725:ASP:OD2	2.49	0.55
3:D:1105:ILE:HD11	3:D:1374:GLN:CD	2.30	0.55
5:F:79:ASP:O	5:F:83:GLN:N	2.35	0.55
5:F:87:GLU:HA	5:F:90:GLN:NE2	2.21	0.55
5:F:141:VAL:O	5:F:145:PRO:HD2	2.06	0.55
2:M:564:MET:O	2:M:567:GLN:HB2	2.05	0.55
2:M:640:ARG:HB3	2:M:640:ARG:NH1	2.20	0.55
2:M:695:LEU:HD12	2:M:852:ILE:HG21	1.87	0.55
3:N:95:LEU:HD12	3:N:515:GLU:CA	2.36	0.55
3:N:399:ARG:O	3:N:443:VAL:HA	2.06	0.55
3:N:485:SER:O	3:N:487:ALA:N	2.40	0.55
5:P:94:LEU:HB3	5:P:98:GLU:H	1.72	0.55
5:P:214:GLN:HA	5:P:214:GLN:NE2	2.21	0.55
1:A:42:ARG:HH12	2:C:978:ARG:HA	1.71	0.55
2:C:468:ARG:HD3	2:C:485:TYR:O	2.05	0.55
3:D:112:ILE:HD11	3:D:124:GLU:CG	2.36	0.55
3:D:645:PRO:O	3:D:648:MET:N	2.39	0.55
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.88	0.55
2:M:108:ILE:HD11	2:M:365:ASP:OD2	2.06	0.55
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.89	0.55
2:M:674:VAL:HG11	2:M:992:MET:CE	2.33	0.55
2:M:1007:ALA:HB1	3:N:651:GLU:HB3	1.88	0.55
2:M:1012:PRO:O	2:M:1013:TYR:CG	2.59	0.55
3:N:18:ILE:HG21	3:N:516:ALA:O	2.07	0.55
3:N:40:GLU:O	3:N:41:ARG:O	2.23	0.55
3:N:553:ARG:O	3:N:554:LEU:C	2.49	0.55
3:N:728:LEU:CD1	3:N:745:MET:HE1	2.34	0.55
3:N:843:PHE:CD1	3:N:849:ALA:HA	2.42	0.55
3:N:1377:LYS:O	3:N:1395:LEU:HB2	2.06	0.55
1:A:26:GLU:HB2	1:A:27:PRO:HA	1.89	0.55
1:A:198:ARG:HD3	1:A:200:TRP:HH2	1.71	0.55
2:C:437:ARG:NH2	2:C:491:GLU:OE2	2.39	0.55
2:C:679:PHE:HE2	2:C:853:LEU:HD21	1.72	0.55
2:C:1019:GLN:HA	2:C:1057:SER:O	2.06	0.55
3:D:112:ILE:O	3:D:116:LEU:HB2	2.06	0.55
3:D:902:LEU:HD23	3:D:902:LEU:H	1.71	0.55
3:D:1001:GLU:O	3:D:1004:THR:HB	2.06	0.55
3:D:1094:LEU:O	3:D:1096:ARG:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1122:LEU:HD12	3:D:1122:LEU:N	2.22	0.55
2:M:3:ILE:HD11	2:M:900:ARG:HB2	1.88	0.55
2:M:268:ASP:O	2:M:288:ARG:HG2	2.05	0.55
2:M:397:GLU:CG	2:M:632:ASN:H	2.20	0.55
2:M:738:ASP:CB	2:M:744:ARG:HB3	2.35	0.55
2:M:890:LEU:HD11	2:M:901:TYR:CE2	2.42	0.55
3:N:187:LYS:NZ	3:N:213:VAL:HG12	2.19	0.55
3:N:527:MET:HE2	5:P:258:ILE:HD11	1.86	0.55
5:P:214:GLN:O	5:P:215:GLU:C	2.48	0.55
2:C:154:ARG:O	2:C:156:GLY:N	2.38	0.55
2:C:203:ASP:OD1	2:C:206:THR:HG22	2.06	0.55
2:C:233:GLU:HA	2:C:236:ILE:HD12	1.88	0.55
2:C:338:GLU:HA	2:C:341:THR:CG2	2.36	0.55
2:C:923:GLU:O	2:C:927:GLY:HA3	2.06	0.55
3:D:475:LYS:HA	3:D:478:LEU:HD12	1.86	0.55
3:D:709:HIS:O	3:D:712:GLY:N	2.37	0.55
3:D:841:TYR:HB3	3:D:843:PHE:CZ	2.42	0.55
5:F:96:LEU:O	5:F:100:VAL:HG23	2.06	0.55
2:M:589:ARG:HD3	2:M:596:TYR:CZ	2.42	0.55
2:M:673:LEU:HD13	2:M:895:TYR:CZ	2.42	0.55
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.89	0.55
3:N:169:TYR:N	3:N:170:PRO:HD3	2.21	0.55
3:N:573:MET:SD	5:P:210:LEU:HB3	2.47	0.55
3:N:585:GLY:O	3:N:587:ARG:N	2.38	0.55
3:N:661:MET:HE1	3:N:677:LEU:HG	1.88	0.55
3:N:1155:VAL:HG21	3:N:1174:LEU:HD21	1.87	0.55
3:N:1384:PRO:HB3	3:N:1387:SER:O	2.05	0.55
5:P:319:THR:HG22	5:P:320:PRO:HD2	1.88	0.55
2:C:31:GLN:NE2	2:C:40:GLU:HB2	2.22	0.55
2:C:252:LYS:HE2	2:C:296:GLY:HA3	1.89	0.55
2:C:694:LEU:CD2	2:C:697:ARG:HH21	2.11	0.55
3:D:131:LYS:HB2	3:D:456:MET:HE2	1.89	0.55
3:D:168:THR:HG22	3:D:170:PRO:HD3	1.88	0.55
3:D:525:ARG:HA	3:D:538:SER:OG	2.07	0.55
3:D:628:ARG:O	3:D:629:SER:HB2	2.06	0.55
3:D:704:ARG:CD	3:D:705:ALA:H	2.19	0.55
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.70	0.55
5:F:369:LEU:CD2	5:F:373:LYS:HE2	2.37	0.55
1:L:184:THR:O	1:L:192:LEU:HB2	2.06	0.55
2:M:157:ARG:CZ	2:M:314:THR:HA	2.36	0.55
2:M:654:LEU:HD11	2:M:657:ASP:HA	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:397:LYS:NZ	3:N:399:ARG:HH21	2.05	0.55
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.88	0.55
3:N:705:ALA:HB3	3:N:706:PRO:CD	2.31	0.55
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.05	0.55
5:P:367:MET:HG2	5:P:371:LEU:HG	1.88	0.55
2:C:172:ILE:HG21	2:C:184:MET:HE3	1.88	0.55
2:C:905:ILE:CG2	2:C:906:PHE:N	2.70	0.55
2:C:1005:MET:HE2	3:D:648:MET:SD	2.46	0.55
2:C:1097:LEU:HD23	3:D:101:HIS:HE1	1.72	0.55
3:D:90:MET:HE1	3:D:518:PRO:CB	2.36	0.55
3:D:387:LEU:CD1	5:F:97:GLU:H	2.20	0.55
3:D:1168:MET:CE	3:D:1171:VAL:HB	2.34	0.55
3:D:1331:ASP:CG	3:D:1334:GLN:HG3	2.32	0.55
5:F:358:LEU:O	5:F:358:LEU:HD23	2.06	0.55
1:K:11:PHE:O	1:K:12:THR:C	2.50	0.55
1:K:169:ALA:HB1	1:K:171:PHE:CE1	2.42	0.55
2:M:99:GLN:NE2	2:M:101:ILE:HD11	2.21	0.55
3:N:126:VAL:HG11	3:N:152:LEU:CD1	2.34	0.55
3:N:483:HIS:HB2	3:N:484:PRO:CD	2.36	0.55
3:N:1176:LYS:HA	3:N:1179:GLU:CD	2.31	0.55
1:B:25:LEU:HD21	1:B:28:LEU:HD11	1.88	0.55
2:C:238:LEU:HA	2:C:241:LEU:HB2	1.88	0.55
2:C:896:PHE:CE2	2:C:925:TYR:HB2	2.41	0.55
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.87	0.55
1:L:18:ARG:C	1:L:19:GLU:OE1	2.49	0.55
2:M:458:TYR:HB3	2:M:470:PRO:CG	2.35	0.55
2:M:458:TYR:CB	2:M:470:PRO:HG2	2.36	0.55
3:N:701:LEU:HD23	3:N:713:ILE:CG2	2.36	0.55
3:N:840:LYS:HB2	3:N:840:LYS:HZ3	1.71	0.55
3:N:936:TYR:O	3:N:938:GLY:N	2.39	0.55
3:N:1234:THR:C	3:N:1236:LEU:H	2.14	0.55
3:N:1289:LYS:HG2	3:N:1306:PRO:HA	1.89	0.55
5:P:163:LEU:HD13	5:P:174:LEU:CG	2.37	0.55
5:P:280:GLN:O	5:P:280:GLN:HG2	2.06	0.55
5:P:346:THR:HB	5:P:347:GLN:OE1	2.06	0.55
2:C:724:ARG:O	2:C:724:ARG:HG2	2.06	0.55
2:C:915:LYS:HZ1	3:D:952:ASP:CG	2.15	0.55
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.71	0.55
2:C:1012:PRO:O	2:C:1013:TYR:CD2	2.59	0.55
3:D:1147:ARG:CB	3:D:1188:VAL:HG21	2.37	0.55
3:D:1346:ARG:HA	3:D:1346:ARG:HH11	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:517:ARG:O	2:M:519:GLY:N	2.40	0.55
2:M:1005:MET:CE	3:N:648:MET:HB2	2.36	0.55
3:N:18:ILE:HD12	3:N:518:PRO:HG3	1.88	0.55
3:N:819:GLY:O	3:N:822:ALA:HB3	2.07	0.55
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.37	0.55
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	2.06	0.55
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.36	0.55
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.87	0.55
1:B:138:LEU:HD12	1:B:140:MET:HE1	1.89	0.55
2:C:472:ARG:HD2	2:C:480:THR:O	2.07	0.55
2:C:697:ARG:HB2	2:C:699:PHE:HD1	1.72	0.55
2:C:1035:MET:HG2	2:C:1038:TRP:CZ3	2.42	0.55
2:C:1050:GLN:NE2	3:D:1469:GLY:O	2.30	0.55
2:C:1091:GLU:HA	3:D:520:LEU:HD13	1.89	0.55
3:D:768:ASN:ND2	3:D:1210:SER:OG	2.40	0.55
3:D:1159:ARG:HH11	3:D:1159:ARG:HG2	1.71	0.55
2:M:1054:THR:CB	2:M:1079:PRO:HB3	2.37	0.55
3:N:676:MET:O	3:N:676:MET:SD	2.65	0.55
3:N:679:ARG:HH11	3:N:682:ASP:CG	2.14	0.55
3:N:690:ALA:O	3:N:694:VAL:HG23	2.07	0.55
3:N:740:PHE:N	3:N:740:PHE:CD1	2.74	0.55
3:N:795:VAL:HG23	3:N:879:ARG:HH12	1.72	0.55
3:N:804:LEU:O	3:N:831:GLY:HA2	2.06	0.55
3:N:918:ALA:HA	3:N:922:LEU:HD12	1.89	0.55
3:N:1131:SER:O	3:N:1132:LEU:C	2.50	0.55
3:N:1314:LYS:H	3:N:1314:LYS:HZ2	1.55	0.55
5:P:101:GLU:HG2	5:P:102:LEU:N	2.20	0.55
1:A:227:ASN:HD22	1:A:227:ASN:N	2.05	0.55
1:B:123:MET:C	1:B:125:PRO:HD3	2.32	0.55
2:C:690:ILE:HG21	2:C:833:LEU:CD2	2.36	0.55
3:D:179:VAL:HG11	3:D:217:LYS:HE3	1.89	0.55
3:D:396:VAL:HG22	3:D:447:VAL:HB	1.90	0.55
3:D:679:ARG:NH2	3:D:681:ARG:NE	2.51	0.55
5:F:371:LEU:HA	5:F:375:LEU:HB2	1.88	0.55
1:K:147:GLY:HA3	1:K:171:PHE:CD2	2.41	0.55
1:L:25:LEU:CD2	1:L:28:LEU:HD11	2.37	0.55
2:M:292:ARG:HG2	2:M:297:GLU:O	2.07	0.55
2:M:486:MET:CG	2:M:490:GLU:HB3	2.37	0.55
2:M:734:LEU:HD13	2:M:737:LEU:HD12	1.87	0.55
2:M:976:ASP:O	2:M:978:ARG:N	2.40	0.55
2:M:984:GLU:OE1	3:N:945:SER:HA	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1043:TYR:O	2:M:1045:ALA:N	2.40	0.55
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.36	0.55
3:N:79:GLU:HG2	3:N:80:VAL:H	1.72	0.55
3:N:181:ASP:OD2	3:N:198:ARG:HB2	2.07	0.55
3:N:550:ARG:HG3	3:N:550:ARG:NH1	2.22	0.55
4:O:36:LYS:C	4:O:38:THR:H	2.14	0.55
5:P:93:LEU:HG	5:P:190:ALA:HB1	1.89	0.55
5:P:350:LEU:HD12	5:P:422:LEU:HB2	1.89	0.55
2:C:139:GLN:HG2	2:C:140:ILE:N	2.21	0.54
2:C:332:ARG:CG	2:C:465:GLY:HA3	2.35	0.54
2:C:1036:GLU:HG2	3:D:703:ASN:OD1	2.06	0.54
3:D:1443:THR:O	3:D:1444:THR:C	2.50	0.54
4:E:54:LEU:HA	4:E:58:PRO:CG	2.36	0.54
4:E:79:LEU:HG	4:E:80:VAL:HG23	1.89	0.54
1:K:63:HIS:HD2	1:K:65:PHE:H	1.55	0.54
1:K:121:GLU:HG2	1:K:123:MET:SD	2.47	0.54
2:M:375:SER:O	2:M:379:GLU:HB2	2.06	0.54
2:M:432:ARG:NH1	3:N:1053:PHE:CZ	2.75	0.54
2:M:1047:HIS:CG	3:N:754:PHE:CD2	2.95	0.54
3:N:132:TYR:CD2	3:N:154:THR:HG22	2.41	0.54
3:N:1102:THR:O	3:N:1102:THR:HG22	2.07	0.54
3:N:1209:LEU:CD2	4:O:16:LYS:HD2	2.37	0.54
3:N:1269:LYS:HE2	3:N:1269:LYS:HA	1.89	0.54
3:N:1478:SER:C	3:N:1480:PHE:N	2.63	0.54
1:A:152:PRO:HB2	1:A:155:LYS:HB2	1.90	0.54
1:A:185:ARG:C	1:A:186:LEU:HD12	2.32	0.54
1:B:25:LEU:HD22	1:B:195:LEU:HD23	1.88	0.54
2:C:573:ARG:O	2:C:574:ALA:O	2.25	0.54
3:D:90:MET:HE2	3:D:519:VAL:N	2.21	0.54
3:D:457:GLY:CA	3:D:568:ARG:HH12	2.19	0.54
3:D:569:ASN:ND2	3:D:569:ASN:O	2.39	0.54
3:D:609:GLY:HA2	3:D:613:ARG:HD2	1.90	0.54
3:D:813:LEU:O	3:D:817:GLU:HB2	2.06	0.54
3:D:1076:GLY:C	3:D:1079:LYS:HG2	2.33	0.54
3:D:1290:LEU:HD23	3:D:1291:SER:N	2.22	0.54
5:F:214:GLN:HA	5:F:214:GLN:OE1	2.06	0.54
1:L:73:GLU:HG3	1:L:130:ALA:CB	2.37	0.54
2:M:282:GLY:HA2	2:M:308:ARG:HH21	1.71	0.54
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.21	0.54
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.88	0.54
2:M:921:ALA:O	2:M:924:VAL:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:962:GLN:O	2:M:964:LYS:N	2.40	0.54
3:N:585:GLY:C	3:N:587:ARG:H	2.15	0.54
3:N:765:SER:C	3:N:767:HIS:H	2.15	0.54
3:N:976:GLN:HA	3:N:979:GLU:CG	2.37	0.54
3:N:1466:VAL:O	3:N:1467:ILE:C	2.50	0.54
3:N:1495:ILE:HD12	4:O:88:GLU:HG3	1.90	0.54
5:P:76:SER:O	5:P:79:ASP:N	2.37	0.54
5:P:358:LEU:HD21	5:P:370:LYS:NZ	2.22	0.54
1:A:146:ARG:O	1:A:146:ARG:HD3	2.07	0.54
1:B:53:VAL:HG13	1:B:142:VAL:HB	1.90	0.54
2:C:290:LEU:HB3	2:C:302:VAL:CG2	2.37	0.54
2:C:424:GLY:O	2:C:427:VAL:N	2.40	0.54
2:C:682:TYR:HA	3:D:635:PRO:HG2	1.89	0.54
2:C:774:LEU:HD13	2:C:774:LEU:C	2.32	0.54
2:C:926:PHE:CD1	2:C:929:ARG:HG3	2.43	0.54
2:C:1067:TYR:O	2:C:1070:ILE:HB	2.06	0.54
3:D:85:VAL:O	3:D:89:ARG:HG3	2.07	0.54
3:D:229:ALA:O	3:D:236:TYR:HB2	2.08	0.54
3:D:422:ALA:HB3	3:D:427:VAL:HG13	1.88	0.54
3:D:886:VAL:HG11	3:D:914:LEU:HD21	1.89	0.54
3:D:1093:TYR:CD1	3:D:1093:TYR:C	2.85	0.54
3:D:1426:LYS:O	3:D:1428:ALA:N	2.40	0.54
5:F:256:ARG:NH2	5:F:258:ILE:O	2.41	0.54
2:M:116:GLY:HA3	2:M:378:LEU:HD23	1.88	0.54
2:M:184:MET:SD	2:M:191:PHE:CZ	3.00	0.54
2:M:616:GLU:OE1	2:M:616:GLU:HA	2.08	0.54
2:M:1044:GLY:N	3:N:762:GLN:NE2	2.56	0.54
3:N:583:ASP:OD1	3:N:604:THR:HG21	2.07	0.54
3:N:699:VAL:CG1	3:N:717:GLN:HG2	2.37	0.54
3:N:918:ALA:O	3:N:922:LEU:N	2.39	0.54
3:N:1155:VAL:HG13	3:N:1183:ILE:HD11	1.88	0.54
3:N:1156:LEU:HG	3:N:1182:GLU:OE2	2.07	0.54
3:N:1171:VAL:O	3:N:1171:VAL:HG12	2.08	0.54
4:O:53:GLY:C	4:O:55:PHE:H	2.14	0.54
5:P:300:ASP:CG	5:P:301:ALA:N	2.63	0.54
2:C:728:HIS:HB3	2:C:729:LEU:CD2	2.38	0.54
2:C:918:LEU:HD23	2:C:967:PHE:O	2.07	0.54
3:D:152:LEU:H	3:D:152:LEU:CD2	2.03	0.54
3:D:554:LEU:HD13	3:D:554:LEU:O	2.07	0.54
3:D:869:MET:CE	3:D:894:LYS:HE3	2.37	0.54
3:D:932:ASP:HA	3:D:935:LYS:HB3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1054:GLU:O	3:D:1056:PRO:HD3	2.07	0.54
3:D:1334:GLN:O	3:D:1335:LEU:C	2.51	0.54
1:L:92:PRO:C	1:L:94:LEU:H	2.15	0.54
1:L:153:ALA:HB2	1:L:168:ASP:N	2.22	0.54
1:L:176:ARG:HH22	3:N:884:ARG:HD3	1.72	0.54
2:M:283:ILE:HG22	2:M:284:ARG:HG3	1.89	0.54
2:M:398:THR:CG2	2:M:635:THR:HG21	2.37	0.54
2:M:535:SER:OG	2:M:536:PRO:CD	2.55	0.54
2:M:962:GLN:O	2:M:965:GLU:N	2.40	0.54
3:N:133:ILE:HG12	3:N:456:MET:HE3	1.89	0.54
3:N:533:GLY:HA3	5:P:309:LYS:HB3	1.89	0.54
3:N:1396:GLU:O	3:N:1399:ASP:HB2	2.08	0.54
2:C:328:LEU:HB2	2:C:433:THR:HG21	1.87	0.54
2:C:674:VAL:HG11	2:C:992:MET:HB2	1.90	0.54
3:D:9:ARG:HH12	3:D:11:ALA:HB2	1.72	0.54
3:D:78:VAL:C	3:D:79:GLU:O	2.48	0.54
3:D:160:GLU:HG3	3:D:165:LYS:HA	1.90	0.54
3:D:671:LYS:HE3	5:F:421:PHE:O	2.07	0.54
3:D:1001:GLU:C	3:D:1001:GLU:CD	2.75	0.54
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.90	0.54
4:E:52:GLU:HA	4:E:52:GLU:OE2	2.07	0.54
1:L:64:GLU:O	1:L:76:VAL:HG22	2.07	0.54
2:M:405:ARG:CZ	2:M:566:THR:HG21	2.38	0.54
2:M:904:PRO:HD2	2:M:908:GLY:CA	2.37	0.54
3:N:1065:LEU:HA	3:N:1069:GLU:OE2	2.08	0.54
3:N:1159:ARG:CZ	3:N:1159:ARG:HB2	2.38	0.54
5:P:276:ARG:HG3	5:P:276:ARG:NH1	2.23	0.54
1:B:174:VAL:HG13	1:B:200:TRP:O	2.07	0.54
2:C:548:PRO:CG	2:C:842:ARG:CZ	2.86	0.54
2:C:884:GLN:HG2	2:C:885:ILE:CD1	2.37	0.54
2:C:1038:TRP:HH2	3:D:1096:ARG:HD3	1.73	0.54
3:D:377:VAL:CG1	3:D:383:GLY:H	2.21	0.54
3:D:377:VAL:HG22	3:D:382:GLU:OE2	2.08	0.54
3:D:996:TRP:CG	3:D:1056:PRO:HG2	2.42	0.54
3:D:1023:MET:HA	3:D:1028:ALA:HB3	1.89	0.54
3:D:1145:TYR:C	3:D:1145:TYR:CD2	2.84	0.54
2:M:397:GLU:O	2:M:631:SER:HB2	2.08	0.54
2:M:949:LYS:HD3	3:N:828:LYS:HZ1	1.72	0.54
3:N:826:PRO:HD2	3:N:829:VAL:CG2	2.37	0.54
3:N:1057:VAL:HG13	3:N:1069:GLU:CG	2.38	0.54
3:N:1466:VAL:CG1	3:N:1467:ILE:N	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:62:THR:O	4:O:62:THR:HG22	2.07	0.54
5:P:105:LYS:HE3	5:P:179:GLU:CG	2.38	0.54
1:A:55:SER:HB2	1:A:158:ILE:CG2	2.36	0.54
2:C:252:LYS:HD3	2:C:296:GLY:HA2	1.90	0.54
2:C:495:THR:CG2	2:C:517:ARG:HE	2.21	0.54
3:D:79:GLU:O	3:D:80:VAL:HB	2.08	0.54
3:D:480:GLU:O	3:D:484:PRO:HD2	2.08	0.54
3:D:559:ALA:C	3:D:561:GLY:N	2.63	0.54
3:D:661:MET:HE1	3:D:677:LEU:CG	2.37	0.54
3:D:889:ALA:HB1	3:D:930:LEU:HA	1.90	0.54
3:D:1078:ARG:O	3:D:1080:GLY:N	2.41	0.54
3:D:1481:VAL:O	3:D:1483:PHE:N	2.39	0.54
5:F:88:ILE:HD13	5:F:193:ARG:CB	2.36	0.54
1:K:180:GLN:O	1:K:195:LEU:HA	2.08	0.54
1:L:44:LEU:HD11	1:L:199:ILE:CD1	2.37	0.54
1:L:121:GLU:HG2	1:L:122:ILE:N	2.23	0.54
2:M:74:GLY:O	2:M:76:PRO:HD3	2.08	0.54
2:M:683:ASN:CB	2:M:687:ALA:O	2.49	0.54
2:M:1052:MET:CE	2:M:1056:LYS:HZ3	2.21	0.54
3:N:441:ARG:HG2	3:N:442:ASN:H	1.73	0.54
3:N:638:LYS:O	3:N:639:LEU:C	2.50	0.54
3:N:887:ALA:CB	3:N:893:GLU:HG3	2.22	0.54
3:N:1343:ALA:C	3:N:1345:GLU:H	2.16	0.54
1:A:85:LEU:HB2	1:A:127:LEU:HD21	1.90	0.54
1:B:49:PRO:HA	1:B:147:GLY:O	2.07	0.54
2:C:21:ILE:HG22	2:C:335:THR:HG22	1.89	0.54
2:C:205:GLU:HG3	2:C:206:THR:N	2.22	0.54
2:C:257:VAL:HG13	2:C:263:ASP:OD2	2.07	0.54
2:C:290:LEU:CD2	2:C:302:VAL:HG21	2.37	0.54
3:D:378:ILE:CD1	3:D:378:ILE:H	2.21	0.54
3:D:387:LEU:HD13	5:F:97:GLU:CB	2.38	0.54
3:D:648:MET:O	3:D:652:LEU:HB2	2.08	0.54
3:D:858:VAL:HG12	3:D:859:ASP:O	2.06	0.54
1:K:133:GLU:HG2	1:K:134:GLU:H	1.72	0.54
1:L:137:ARG:NH1	1:L:137:ARG:HG2	2.22	0.54
1:L:158:ILE:HG22	1:L:159:LYS:N	2.21	0.54
2:M:218:VAL:HG12	2:M:222:MET:HG3	1.90	0.54
2:M:1083:GLU:O	2:M:1087:VAL:CG2	2.50	0.54
3:N:32:ILE:HG22	3:N:33:ASN:N	2.22	0.54
3:N:218:LYS:HB3	3:N:373:PRO:CA	2.38	0.54
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:490:ALA:O	3:N:494:LYS:HG3	2.07	0.54
3:N:545:ARG:HB3	3:N:545:ARG:HH11	1.73	0.54
3:N:658:LEU:O	3:N:661:MET:HB2	2.08	0.54
3:N:1271:LYS:HE3	3:N:1334:GLN:OE1	2.08	0.54
1:A:153:ALA:O	1:A:155:LYS:N	2.41	0.54
1:B:151:VAL:CB	1:B:169:ALA:HB3	2.36	0.54
2:C:762:LYS:HB2	2:C:762:LYS:NZ	2.22	0.54
2:C:983:ILE:HG23	3:D:944:THR:HA	1.88	0.54
3:D:435:VAL:HA	3:D:445:ARG:O	2.08	0.54
3:D:560:GLN:O	5:F:184:ARG:NH2	2.41	0.54
3:D:890:VAL:HG23	3:D:890:VAL:O	2.07	0.54
3:D:897:TRP:CH2	3:D:902:LEU:HD11	2.43	0.54
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.08	0.54
3:D:1357:ARG:O	3:D:1359:GLN:N	2.40	0.54
5:F:244:ARG:O	5:F:248:ASN:ND2	2.41	0.54
5:F:414:ARG:O	5:F:416:ARG:N	2.40	0.54
1:L:36:LEU:O	1:L:39:PRO:HD2	2.07	0.54
1:L:137:ARG:HH22	1:L:139:ASN:ND2	2.05	0.54
3:N:657:LEU:HD13	3:N:691:LEU:HA	1.90	0.54
3:N:792:ILE:HD11	3:N:881:LEU:CD2	2.31	0.54
3:N:1027:GLY:O	3:N:1028:ALA:C	2.50	0.54
3:N:1241:PHE:O	3:N:1257:PRO:HB3	2.07	0.54
2:C:300:ASP:C	2:C:302:VAL:N	2.65	0.54
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.90	0.54
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.71	0.54
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.90	0.54
3:D:149:LYS:H	3:D:149:LYS:CD	2.12	0.54
3:D:493:ARG:NH2	3:D:1389:LEU:HD21	2.22	0.54
3:D:1274:ILE:O	3:D:1274:ILE:HD12	2.08	0.54
4:E:41:GLU:O	4:E:42:PRO:C	2.50	0.54
1:L:88:ARG:HG2	1:L:88:ARG:HH11	1.73	0.54
2:M:139:GLN:HG3	2:M:411:SER:O	2.08	0.54
2:M:855:VAL:C	2:M:857:ASP:H	2.16	0.54
2:M:926:PHE:O	2:M:930:LYS:HG3	2.08	0.54
3:N:22:SER:OG	3:N:91:GLY:HA2	2.08	0.54
3:N:482:LYS:HG2	3:N:482:LYS:O	2.07	0.54
3:N:759:ALA:O	3:N:763:MET:HB3	2.08	0.54
3:N:786:ILE:HG21	3:N:1028:ALA:H	1.73	0.54
3:N:1243:THR:OG1	3:N:1253:THR:HB	2.07	0.54
3:N:1256:LEU:O	3:N:1259:VAL:N	2.39	0.54
3:N:1437:ALA:C	3:N:1446:VAL:HG11	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:151:LEU:HB2	5:P:155:THR:CB	2.38	0.54
5:P:163:LEU:HD22	5:P:174:LEU:CG	2.26	0.54
1:B:68:ILE:HB	1:B:71:VAL:HG21	1.90	0.53
2:C:170:PRO:HD3	2:C:263:ASP:HB3	1.90	0.53
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.23	0.53
3:D:78:VAL:HG12	3:D:78:VAL:O	2.08	0.53
3:D:85:VAL:CG1	3:D:89:ARG:HE	2.21	0.53
3:D:225:LEU:HD22	3:D:225:LEU:N	2.22	0.53
3:D:558:LEU:HD13	5:F:145:PRO:HB3	1.90	0.53
3:D:633:VAL:O	3:D:635:PRO:HD3	2.07	0.53
3:D:1207:TYR:O	3:D:1208:ASP:C	2.51	0.53
1:L:206:THR:CG2	1:L:209:GLU:CD	2.81	0.53
1:L:216:GLU:OE2	1:L:220:GLU:HG3	2.08	0.53
2:M:18:LEU:HD13	2:M:590:ASP:OD2	2.08	0.53
2:M:444:PRO:HD2	2:M:448:ASN:O	2.08	0.53
2:M:561:GLY:O	2:M:563:ASN:N	2.41	0.53
2:M:755:LEU:C	2:M:756:VAL:HG23	2.33	0.53
3:N:97:THR:O	3:N:98:PRO:O	2.26	0.53
3:N:195:VAL:HB	3:N:205:TYR:CD1	2.43	0.53
3:N:604:THR:O	3:N:606:ILE:N	2.41	0.53
3:N:669:ASN:ND2	3:N:672:ALA:H	2.06	0.53
3:N:785:ILE:CD1	3:N:939:PHE:CE2	2.91	0.53
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.43	0.53
3:N:988:ARG:CZ	3:N:992:ILE:HD11	2.37	0.53
3:N:1047:LYS:HG3	3:N:1053:PHE:CD1	2.43	0.53
3:N:1466:VAL:CG2	3:N:1472:ILE:HD11	2.34	0.53
1:A:89:PHE:HD1	1:A:120:VAL:HG22	1.73	0.53
1:B:226:SER:O	1:B:228:PRO:HD3	2.08	0.53
2:C:973:VAL:O	2:C:973:VAL:HG12	2.07	0.53
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.90	0.53
3:D:651:GLU:CD	3:D:654:LYS:HZ2	2.16	0.53
3:D:1012:GLU:HG2	3:D:1012:GLU:O	2.08	0.53
3:D:1188:VAL:HG22	3:D:1189:ARG:H	1.73	0.53
5:F:276:ARG:HG3	5:F:276:ARG:HH11	1.72	0.53
5:F:309:LYS:HA	5:F:312:GLN:OE1	2.08	0.53
2:M:165:LEU:HA	2:M:166:PRO:C	2.32	0.53
2:M:188:LYS:C	2:M:188:LYS:HE2	2.34	0.53
2:M:516:ARG:HD2	3:N:1068:LEU:CD2	2.38	0.53
2:M:881:ASN:H	2:M:881:ASN:HD22	1.55	0.53
2:M:921:ALA:O	2:M:923:GLU:N	2.42	0.53
2:M:927:GLY:HA2	2:M:930:LYS:NZ	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:167:GLU:OE2	5:P:90:GLN:HG2	2.08	0.53
3:N:537:THR:HG22	5:P:314:PRO:HB3	1.90	0.53
3:N:1065:LEU:O	3:N:1066:THR:O	2.26	0.53
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.37	0.53
1:A:59:GLU:HB2	1:A:139:ASN:HB3	1.91	0.53
1:A:63:HIS:HD2	1:A:65:PHE:HB2	1.73	0.53
1:B:2:LEU:CD1	1:B:3:ASP:H	2.22	0.53
2:C:517:ARG:HH21	2:C:524:VAL:HG23	1.73	0.53
2:C:839:LEU:N	2:C:839:LEU:HD23	2.23	0.53
3:D:163:TYR:OH	3:D:394:LEU:HD11	2.07	0.53
3:D:389:GLU:CD	3:D:389:GLU:N	2.66	0.53
3:D:502:PHE:CE2	3:D:1452:ILE:HG13	2.44	0.53
3:D:624:ASP:HB3	3:D:625:TYR:CE1	2.43	0.53
3:D:947:ILE:O	3:D:947:ILE:CD1	2.56	0.53
4:E:8:LYS:O	4:E:12:MET:HG3	2.08	0.53
2:M:145:GLY:O	2:M:146:VAL:HG13	2.08	0.53
2:M:302:VAL:O	2:M:305:PRO:HD2	2.09	0.53
2:M:439:CYS:SG	2:M:541:SER:N	2.81	0.53
2:M:537:LYS:CA	2:M:905:ILE:HD11	2.37	0.53
2:M:553:ASP:OD1	2:M:883:GLY:HA3	2.08	0.53
2:M:669:GLY:O	2:M:670:GLN:HG3	2.08	0.53
2:M:731:GLU:O	2:M:734:LEU:HB2	2.07	0.53
2:M:751:PRO:HD2	3:N:680:GLN:OE1	2.06	0.53
3:N:834:THR:HB	3:N:838:ARG:CB	2.38	0.53
3:N:882:PHE:CZ	3:N:906:GLN:HG3	2.43	0.53
3:N:1135:ARG:C	3:N:1136:LYS:O	2.45	0.53
3:N:1225:ALA:HB1	3:N:1367:HIS:O	2.08	0.53
5:P:110:MET:HE2	5:P:111:GLU:CG	2.38	0.53
1:A:79:ILE:C	1:A:79:ILE:HD12	2.33	0.53
1:B:206:THR:HG23	1:B:207:PRO:HD2	1.89	0.53
2:C:20:GLU:OE2	2:C:21:ILE:HG13	2.07	0.53
2:C:749:VAL:HG22	2:C:798:GLY:O	2.09	0.53
2:C:1092:LEU:HD13	2:C:1099:VAL:HG11	1.91	0.53
3:D:85:VAL:HG12	3:D:89:ARG:HE	1.73	0.53
3:D:149:LYS:HD3	3:D:149:LYS:N	2.17	0.53
3:D:553:ARG:HH12	5:F:211:ASP:CA	2.14	0.53
3:D:810:GLU:C	3:D:812:ALA:H	2.16	0.53
3:D:945:SER:CB	3:D:947:ILE:HG23	2.37	0.53
3:D:1253:THR:HG23	3:D:1258:ARG:HH11	1.74	0.53
3:D:1346:ARG:NH2	3:D:1349:VAL:HG11	2.23	0.53
5:F:77:THR:HA	5:F:80:PRO:HD2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:49:PRO:HA	1:K:147:GLY:O	2.08	0.53
1:L:108:GLU:O	1:L:110:LYS:HG3	2.07	0.53
2:M:80:GLN:O	2:M:83:CYS:N	2.35	0.53
2:M:86:LYS:C	2:M:88:LEU:H	2.15	0.53
2:M:1086:ARG:HD3	2:M:1112:PHE:CD2	2.43	0.53
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.91	0.53
3:N:217:LYS:H	3:N:217:LYS:CE	2.09	0.53
3:N:550:ARG:CD	3:N:573:MET:HE3	2.38	0.53
3:N:637:LEU:O	3:N:638:LYS:HG3	2.08	0.53
3:N:654:LYS:O	3:N:655:PRO:C	2.52	0.53
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.39	0.53
3:N:1330:ILE:O	3:N:1332:PRO:HD3	2.09	0.53
1:A:9:PRO:HA	1:A:26:GLU:O	2.08	0.53
1:A:184:THR:HB	1:A:194:LYS:HB2	1.90	0.53
2:C:765:SER:HB2	2:C:766:GLU:OE2	2.09	0.53
2:C:1056:LYS:HA	3:D:624:ASP:HB2	1.90	0.53
3:D:123:LEU:O	3:D:126:VAL:HG12	2.09	0.53
3:D:179:VAL:HG11	3:D:217:LYS:NZ	2.22	0.53
3:D:528:VAL:HG12	3:D:529:GLN:H	1.74	0.53
3:D:601:ARG:NH1	3:D:611:GLN:HB2	2.23	0.53
3:D:850:LEU:HD13	3:D:884:ARG:HH21	1.73	0.53
3:D:1276:GLU:HG3	3:D:1303:TYR:OH	2.09	0.53
5:F:415:THR:HG21	5:F:417:LYS:NZ	2.24	0.53
2:M:325:ILE:H	2:M:325:ILE:CD1	2.21	0.53
2:M:371:LYS:O	2:M:372:LEU:HD23	2.09	0.53
2:M:640:ARG:HH11	2:M:640:ARG:CB	2.21	0.53
2:M:1087:VAL:HG12	2:M:1091:GLU:OE2	2.08	0.53
3:N:840:LYS:HD2	3:N:841:TYR:CZ	2.44	0.53
3:N:988:ARG:HG2	3:N:988:ARG:HH11	1.73	0.53
3:N:1271:LYS:HE3	3:N:1334:GLN:NE2	2.23	0.53
3:N:1275:SER:HB2	3:N:1325:LEU:CD1	2.38	0.53
3:N:1283:ILE:HD13	3:N:1311:LEU:HD11	1.90	0.53
3:N:1393:GLN:O	3:N:1394:VAL:C	2.51	0.53
5:P:133:ALA:O	5:P:137:GLY:O	2.26	0.53
5:P:207:LEU:HD12	5:P:212:LEU:HD21	1.90	0.53
2:C:100:LEU:HG	2:C:368:THR:HG23	1.89	0.53
2:C:175:GLU:HB3	2:C:183:SER:OG	2.08	0.53
3:D:207:PHE:HB3	3:D:395:VAL:HG21	1.90	0.53
3:D:245:LEU:HD13	3:D:245:LEU:H	1.74	0.53
3:D:429:SER:H	3:D:433:GLY:HA2	1.74	0.53
3:D:486:ARG:HH21	3:D:489:ARG:NE	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:700:VAL:HG13	3:D:718:PRO:HG2	1.91	0.53
5:F:135:ILE:HD11	5:F:178:ARG:HD2	1.88	0.53
2:M:157:ARG:NH1	2:M:314:THR:HB	2.24	0.53
2:M:565:GLN:C	2:M:567:GLN:N	2.57	0.53
2:M:759:THR:HB	2:M:785:VAL:CG1	2.34	0.53
2:M:1052:MET:SD	2:M:1056:LYS:NZ	2.81	0.53
2:M:1102:LEU:O	3:N:5:VAL:HA	2.09	0.53
3:N:1283:ILE:HG22	3:N:1284:GLU:H	1.73	0.53
4:O:40:LEU:HB2	4:O:45:ARG:CZ	2.39	0.53
4:O:40:LEU:HD21	4:O:67:GLU:HG2	1.91	0.53
1:B:7:LYS:HE3	1:B:186:LEU:HD13	1.91	0.53
1:B:86:VAL:HG13	1:B:123:MET:HB2	1.91	0.53
2:C:183:SER:HB2	2:C:190:LYS:CD	2.39	0.53
2:C:583:LEU:O	2:C:587:VAL:HG23	2.09	0.53
2:C:945:ARG:C	2:C:947:ALA:H	2.16	0.53
2:C:1102:LEU:HD13	3:D:9:ARG:HB2	1.90	0.53
3:D:141:ILE:HG22	3:D:142:LEU:N	2.24	0.53
3:D:166:GLN:HE21	3:D:167:GLU:H	1.56	0.53
3:D:169:TYR:N	3:D:170:PRO:HD3	2.23	0.53
3:D:564:GLU:C	3:D:566:ILE:H	2.16	0.53
3:D:660:LYS:HA	3:D:663:GLU:CG	2.39	0.53
3:D:1243:THR:HB	3:D:1253:THR:HB	1.89	0.53
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.43	0.53
5:F:122:LEU:CD2	5:F:159:ILE:HG23	2.39	0.53
2:M:495:THR:HG23	2:M:517:ARG:NE	2.24	0.53
2:M:911:GLU:HB3	2:M:912:PRO:HD3	1.91	0.53
2:M:988:VAL:O	2:M:989:VAL:CG1	2.57	0.53
2:M:1008:ARG:C	3:N:651:GLU:OE2	2.52	0.53
3:N:96:ALA:HB2	3:N:551:ASN:ND2	2.24	0.53
3:N:452:ILE:HG23	3:N:452:ILE:O	2.09	0.53
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.42	0.53
3:N:923:GLY:O	3:N:924:MET:C	2.51	0.53
3:N:984:THR:O	3:N:985:ASP:C	2.52	0.53
3:N:1087:ARG:NE	3:N:1087:ARG:HA	2.24	0.53
3:N:1231:GLU:N	3:N:1232:PRO:CD	2.71	0.53
3:N:1256:LEU:O	3:N:1258:ARG:N	2.42	0.53
3:N:1268:PRO:CB	3:N:1329:ALA:HB3	2.39	0.53
1:A:43:ILE:HD12	1:B:32:PHE:CZ	2.43	0.53
1:A:198:ARG:O	1:A:200:TRP:CZ3	2.61	0.53
1:B:54:THR:O	1:B:167:VAL:HB	2.09	0.53
2:C:486:MET:HE2	2:C:496:ILE:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:502:PRO:CB	2:C:509:ALA:HB3	2.38	0.53
2:C:602:GLU:HA	2:C:647:GLN:O	2.09	0.53
2:C:718:GLY:HA3	2:C:761:PHE:CE1	2.43	0.53
2:C:939:ARG:HB3	2:C:982:PRO:HG3	1.91	0.53
2:C:1009:SER:O	3:D:624:ASP:O	2.27	0.53
2:C:1032:PHE:CE1	2:C:1052:MET:HE3	2.44	0.53
2:C:1058:ASP:HB2	3:D:621:LYS:NZ	2.23	0.53
3:D:217:LYS:NZ	3:D:217:LYS:CB	2.67	0.53
3:D:907:GLU:CG	3:D:908:LYS:H	2.21	0.53
2:M:12:VAL:HG13	2:M:13:ILE:HG12	1.90	0.53
2:M:124:ASP:HB2	2:M:407:LYS:NZ	2.23	0.53
2:M:470:PRO:CB	2:M:534:VAL:HG21	2.38	0.53
2:M:549:PHE:CE2	2:M:887:GLU:HA	2.40	0.53
2:M:627:ARG:HG3	2:M:628:PHE:H	1.73	0.53
2:M:669:GLY:C	2:M:670:GLN:HG3	2.33	0.53
2:M:674:VAL:HB	2:M:869:VAL:HG13	1.91	0.53
2:M:944:LEU:HD21	2:M:963:LEU:HD23	1.90	0.53
2:M:1009:SER:HB2	3:N:651:GLU:CD	2.33	0.53
2:M:1029:GLY:HA3	3:N:623:VAL:O	2.08	0.53
3:N:78:VAL:HG12	3:N:79:GLU:O	2.09	0.53
3:N:566:ILE:HD11	5:P:192:LEU:HD21	1.91	0.53
3:N:601:ARG:NE	3:N:605:ASP:HB2	2.24	0.53
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.38	0.53
3:N:1401:GLU:O	3:N:1405:GLU:HG3	2.09	0.53
4:O:53:GLY:HA2	4:O:55:PHE:HD2	1.73	0.53
5:P:318:GLU:HG3	5:P:318:GLU:O	2.07	0.53
5:P:416:ARG:HD3	5:P:419:ARG:CG	2.37	0.53
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.36	0.53
2:C:97:ARG:NH2	2:C:109:LYS:HD2	2.23	0.53
2:C:443:THR:O	2:C:559:LEU:HD11	2.09	0.53
2:C:517:ARG:HH21	2:C:524:VAL:CG2	2.22	0.53
2:C:776:SER:HA	2:C:780:GLU:CA	2.39	0.53
2:C:799:ILE:O	2:C:799:ILE:HG12	2.08	0.53
3:D:34:TYR:OH	5:F:264:MET:HG3	2.09	0.53
3:D:374:GLU:HG2	3:D:386:HIS:CA	2.31	0.53
3:D:1071:PHE:C	3:D:1071:PHE:CD1	2.87	0.53
3:D:1310:ARG:HG3	3:D:1327:ARG:CB	2.38	0.53
1:K:150:TYR:HA	1:K:169:ALA:O	2.08	0.53
2:M:1033:GLY:HA2	3:N:620:GLY:HA2	1.90	0.53
2:M:1092:LEU:HD23	2:M:1099:VAL:HG13	1.91	0.53
3:N:197:SER:CB	3:N:203:ALA:HB3	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:382:GLU:HG2	3:N:383:GLY:N	2.24	0.53
3:N:563:PRO:HG2	5:P:188:ILE:HG21	1.90	0.53
3:N:568:ARG:O	3:N:571:LYS:N	2.42	0.53
3:N:609:GLY:HA3	3:N:613:ARG:HB3	1.89	0.53
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.32	0.53
3:N:717:GLN:NE2	3:N:760:ARG:NH2	2.57	0.53
3:N:780:LYS:HG3	3:N:780:LYS:O	2.08	0.53
3:N:908:LYS:O	3:N:912:LYS:N	2.27	0.53
3:N:911:LEU:O	3:N:914:LEU:N	2.42	0.53
3:N:1108:ARG:NH1	3:N:1198:TYR:O	2.42	0.53
3:N:1225:ALA:C	3:N:1229:ILE:HD12	2.34	0.53
1:B:212:ASN:HD22	1:B:212:ASN:N	2.06	0.53
1:B:219:ARG:HE	1:B:220:GLU:N	2.07	0.53
2:C:72:ARG:HH21	2:C:112:GLU:HG3	1.73	0.53
2:C:498:GLN:NE2	2:C:533:ASP:OD2	2.41	0.53
2:C:829:GLN:CG	2:C:831:ARG:HH11	2.22	0.53
2:C:936:VAL:HB	2:C:940:GLU:HB3	1.90	0.53
3:D:23:TYR:HE2	3:D:89:ARG:NH1	2.07	0.53
3:D:141:ILE:HG22	3:D:142:LEU:H	1.74	0.53
3:D:495:ARG:O	3:D:499:VAL:HG23	2.09	0.53
3:D:1211:MET:HE1	4:E:16:LYS:HD2	1.91	0.53
3:D:1219:GLU:O	3:D:1220:ALA:C	2.52	0.53
5:F:287:THR:C	5:F:289:GLU:H	2.15	0.53
2:M:432:ARG:HH22	3:N:1047:LYS:HZ2	1.54	0.53
2:M:877:PRO:HG2	3:N:1023:MET:HE3	1.91	0.53
2:M:1047:HIS:N	3:N:758:GLU:CD	2.67	0.53
3:N:86:ARG:NH1	3:N:522:PRO:HB2	2.24	0.53
3:N:150:ARG:NH1	3:N:464:LEU:HD22	2.23	0.53
3:N:699:VAL:HB	3:N:716:PHE:O	2.08	0.53
3:N:954:ALA:CA	3:N:1039:CYS:SG	2.95	0.53
3:N:1107:VAL:HG23	3:N:1221:VAL:HG21	1.91	0.53
3:N:1144:LEU:CD2	3:N:1166:LEU:HD11	2.21	0.53
3:N:1150:ALA:N	3:N:1187:PRO:O	2.42	0.53
3:N:1376:MET:CE	3:N:1421:LEU:HB2	2.38	0.53
5:P:288:TYR:O	5:P:291:ILE:HG23	2.09	0.53
2:C:266:ARG:HD3	2:C:288:ARG:HH11	1.73	0.52
2:C:795:GLY:O	2:C:796:GLU:CG	2.57	0.52
2:C:919:ALA:N	2:C:968:LEU:HD21	2.22	0.52
3:D:91:GLY:O	3:D:519:VAL:N	2.42	0.52
3:D:537:THR:HG23	3:D:537:THR:O	2.08	0.52
3:D:733:CYS:SG	3:D:740:PHE:HZ	2.32	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:41:GLU:HB3	4:E:42:PRO:HD3	1.90	0.52
1:K:197:LEU:HD23	1:K:197:LEU:H	1.74	0.52
2:M:41:ASN:ND2	2:M:41:ASN:H	2.07	0.52
2:M:580:MET:HE1	2:M:665:PHE:CZ	2.44	0.52
2:M:589:ARG:HD3	2:M:596:TYR:CE2	2.44	0.52
2:M:692:GLU:O	2:M:692:GLU:HG2	2.08	0.52
2:M:1017:THR:OG1	2:M:1019:GLN:HG2	2.09	0.52
3:N:49:ILE:HG22	3:N:50:PHE:N	2.24	0.52
3:N:97:THR:CG2	3:N:571:LYS:HD3	2.39	0.52
3:N:145:VAL:HG13	3:N:146:PRO:HD2	1.91	0.52
3:N:177:ALA:CB	3:N:199:LEU:HD13	2.39	0.52
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.49	0.52
3:N:564:GLU:H	3:N:564:GLU:CD	2.17	0.52
3:N:1219:GLU:C	3:N:1221:VAL:H	2.16	0.52
3:N:1344:VAL:O	3:N:1344:VAL:HG12	2.07	0.52
5:P:389:PHE:CE2	5:P:397:ILE:HD11	2.43	0.52
1:A:198:ARG:HD3	1:A:200:TRP:CH2	2.44	0.52
1:B:29:GLU:O	1:B:32:PHE:HB2	2.08	0.52
2:C:273:GLY:HA2	2:C:276:LYS:HZ3	1.74	0.52
2:C:575:GLN:H	2:C:667:ALA:HB1	1.75	0.52
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.74	0.52
2:C:910:LYS:O	2:C:911:GLU:C	2.52	0.52
3:D:141:ILE:CD1	3:D:449:SER:HA	2.39	0.52
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.90	0.52
3:D:994:GLN:O	3:D:998:GLU:HG3	2.08	0.52
3:D:1062:ARG:C	3:D:1062:ARG:HD3	2.34	0.52
3:D:1102:THR:O	3:D:1222:GLY:HA3	2.09	0.52
3:D:1331:ASP:HB3	3:D:1334:GLN:HG3	1.91	0.52
5:F:210:LEU:HD23	5:F:213:ILE:HD12	1.91	0.52
2:M:98:LEU:O	2:M:109:LYS:HG3	2.09	0.52
2:M:1036:GLU:OE1	2:M:1036:GLU:N	2.30	0.52
2:M:1054:THR:CG2	2:M:1059:ASP:HB2	2.39	0.52
2:M:1056:LYS:HE2	3:N:623:VAL:CG1	2.40	0.52
3:N:162:ARG:HA	3:N:449:SER:HB3	1.91	0.52
3:N:388:HIS:CB	5:P:94:LEU:HD21	2.34	0.52
3:N:656:PHE:CZ	3:N:751:LEU:HD23	2.44	0.52
3:N:660:LYS:HG2	3:N:694:VAL:CG2	2.39	0.52
3:N:1008:PHE:O	3:N:1012:GLU:HB2	2.09	0.52
3:N:1271:LYS:HE3	3:N:1334:GLN:CD	2.34	0.52
3:N:1330:ILE:HD12	3:N:1347:TYR:CD1	2.43	0.52
1:A:173:PRO:O	1:A:174:VAL:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:25:LEU:CD2	1:B:195:LEU:HD23	2.39	0.52
1:B:173:PRO:HB3	1:B:204:SER:HB3	1.90	0.52
2:C:474:VAL:HG22	2:C:476:GLY:O	2.09	0.52
3:D:119:SER:HB2	3:D:123:LEU:CB	2.37	0.52
3:D:119:SER:N	3:D:123:LEU:HB2	2.24	0.52
3:D:709:HIS:HD2	3:D:711:LEU:HB2	1.72	0.52
3:D:1026:SER:O	3:D:1028:ALA:N	2.42	0.52
3:D:1152:GLU:O	3:D:1153:VAL:HG23	2.10	0.52
3:D:1370:ILE:HG22	3:D:1371:VAL:H	1.73	0.52
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.90	0.52
2:M:401:LEU:HD12	2:M:401:LEU:O	2.09	0.52
3:N:525:ARG:O	3:N:526:PRO:O	2.28	0.52
3:N:871:LYS:HB3	3:N:873:LEU:HG	1.91	0.52
3:N:1479:ASP:HA	3:N:1482:ARG:CB	2.39	0.52
1:A:153:ALA:C	1:A:155:LYS:N	2.64	0.52
3:D:203:ALA:O	3:D:204:LEU:HD23	2.10	0.52
3:D:218:LYS:NZ	3:D:370:ALA:CA	2.65	0.52
3:D:223:LEU:H	3:D:365:ASP:HB2	1.74	0.52
3:D:572:ARG:NH2	5:F:79:ASP:OD1	2.42	0.52
3:D:579:ASP:O	3:D:581:LEU:N	2.43	0.52
3:D:864:VAL:HG12	3:D:865:THR:N	2.24	0.52
3:D:1129:THR:CG2	3:D:1130:ARG:H	1.98	0.52
1:L:2:LEU:O	1:L:6:LEU:HB3	2.10	0.52
1:L:206:THR:HG22	1:L:209:GLU:CB	2.39	0.52
2:M:195:LEU:O	2:M:199:VAL:HG23	2.10	0.52
2:M:276:LYS:HG2	2:M:280:LYS:HZ2	1.74	0.52
2:M:395:LYS:HE2	2:M:397:GLU:HB3	1.91	0.52
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.91	0.52
2:M:499:ALA:C	2:M:501:THR:H	2.17	0.52
2:M:808:ARG:HH21	2:M:820:ARG:NH2	2.08	0.52
3:N:39:PRO:HG2	3:N:47:GLU:OE2	2.10	0.52
3:N:93:ILE:HG13	3:N:519:VAL:CG2	2.40	0.52
3:N:116:LEU:HB2	3:N:118:LEU:HD13	1.92	0.52
3:N:221:ALA:C	3:N:367:ILE:HD12	2.34	0.52
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.74	0.52
3:N:1283:ILE:HG22	3:N:1284:GLU:N	2.24	0.52
3:N:1330:ILE:HD12	3:N:1347:TYR:CE1	2.43	0.52
5:P:196:VAL:HG13	5:P:209:PHE:CZ	2.43	0.52
5:P:354:LEU:HG	5:P:418:LEU:HD21	1.91	0.52
1:B:145:ASP:HB2	1:B:171:PHE:HZ	1.73	0.52
2:C:71:TYR:HA	2:C:96:ALA:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:607:ASP:HB3	2:C:609:ASN:H	1.75	0.52
2:C:945:ARG:C	2:C:947:ALA:N	2.67	0.52
2:C:1102:LEU:HD13	3:D:9:ARG:CB	2.39	0.52
3:D:137:PRO:HD2	3:D:453:ASP:CG	2.35	0.52
3:D:422:ALA:CB	3:D:427:VAL:HG22	2.32	0.52
3:D:1147:ARG:HH12	3:D:1190:SER:HB2	1.74	0.52
4:E:53:GLY:O	4:E:55:PHE:N	2.43	0.52
1:L:76:VAL:HG13	1:L:79:ILE:HD11	1.91	0.52
1:L:85:LEU:HA	1:L:127:LEU:HD22	1.91	0.52
3:N:27:GLU:CG	3:N:42:ASP:HB2	2.39	0.52
3:N:541:ASN:HD22	3:N:541:ASN:N	2.07	0.52
3:N:785:ILE:HD11	3:N:939:PHE:CZ	2.44	0.52
3:N:845:ASN:H	3:N:848:GLU:CG	2.11	0.52
3:N:976:GLN:C	3:N:979:GLU:HB2	2.33	0.52
3:N:1057:VAL:HG13	3:N:1069:GLU:HG2	1.91	0.52
3:N:1342:GLU:H	3:N:1342:GLU:CD	2.16	0.52
5:P:134:LYS:HE3	5:P:134:LYS:HA	1.91	0.52
1:A:20:TYR:CD1	1:A:21:GLY:N	2.78	0.52
1:A:34:VAL:CB	1:B:42:ARG:NH2	2.72	0.52
1:A:94:LEU:HD11	1:A:119:ASP:CB	2.39	0.52
2:C:495:THR:HB	2:C:530:GLU:HG3	1.91	0.52
2:C:876:VAL:O	2:C:879:ARG:O	2.28	0.52
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	2.10	0.52
2:C:1115:LEU:HB3	3:D:85:VAL:HG13	1.92	0.52
3:D:65:ARG:HB2	5:F:375:LEU:O	2.10	0.52
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.40	0.52
3:D:154:THR:HG22	3:D:155:ASP:N	2.24	0.52
3:D:168:THR:C	3:D:170:PRO:HD3	2.35	0.52
3:D:245:LEU:HD12	3:D:366:LYS:HZ1	1.74	0.52
1:L:22:GLU:HG2	1:L:198:ARG:HG2	1.91	0.52
2:M:155:PRO:HG2	3:N:1246:VAL:HG12	1.92	0.52
2:M:579:VAL:HA	2:M:901:TYR:O	2.09	0.52
2:M:599:GLU:HA	2:M:651:LYS:HB2	1.91	0.52
2:M:700:TYR:HB2	2:M:833:LEU:HB2	1.91	0.52
2:M:777:ILE:HG22	2:M:778:PHE:CD1	2.45	0.52
3:N:535:PHE:O	5:P:314:PRO:HA	2.09	0.52
3:N:771:SER:HB2	3:N:778:LEU:HD13	1.92	0.52
4:O:9:LEU:C	4:O:11:GLY:H	2.17	0.52
1:A:44:LEU:O	1:A:48:ILE:HD12	2.10	0.52
1:A:209:GLU:O	1:A:213:GLN:HG3	2.10	0.52
1:A:219:ARG:C	1:A:219:ARG:HD3	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:69:LEU:HD21	2:C:99:GLN:OE1	2.10	0.52
2:C:410:ILE:HD12	2:C:455:LEU:HB3	1.91	0.52
2:C:855:VAL:O	2:C:856:GLU:C	2.53	0.52
3:D:83:SER:O	3:D:85:VAL:N	2.43	0.52
3:D:107:ASP:O	3:D:108:VAL:C	2.51	0.52
3:D:139:GLY:O	3:D:147:VAL:HG22	2.09	0.52
3:D:601:ARG:HB2	5:F:318:GLU:OE1	2.10	0.52
3:D:633:VAL:HG13	3:D:635:PRO:HD3	1.92	0.52
3:D:684:LYS:C	3:D:686:GLU:H	2.18	0.52
3:D:752:SER:C	3:D:754:PHE:N	2.65	0.52
3:D:796:ARG:HD3	3:D:862:ASP:OD1	2.10	0.52
3:D:1342:GLU:HA	3:D:1345:GLU:CD	2.33	0.52
1:L:176:ARG:H	1:L:200:TRP:HB2	1.74	0.52
2:M:129:ILE:N	2:M:129:ILE:CD1	2.73	0.52
2:M:498:GLN:CD	2:M:516:ARG:HE	2.17	0.52
2:M:736:ASP:HB3	2:M:743:VAL:HG23	1.92	0.52
2:M:1031:ARG:HA	3:N:621:LYS:O	2.09	0.52
3:N:62:LYS:HE2	3:N:75:ARG:HD3	1.92	0.52
3:N:423:ASP:N	5:P:178:ARG:HH12	2.06	0.52
3:N:574:LEU:O	3:N:578:VAL:HG23	2.10	0.52
3:N:691:LEU:HD21	3:N:720:LEU:HD21	1.91	0.52
5:P:322:GLY:O	5:P:324:GLU:N	2.41	0.52
1:A:198:ARG:O	1:A:200:TRP:HZ3	1.92	0.52
1:B:12:THR:OG1	1:B:24:VAL:HB	2.08	0.52
2:C:194:VAL:HG21	2:C:221:LEU:O	2.10	0.52
2:C:243:ARG:O	2:C:243:ARG:HD2	2.10	0.52
2:C:548:PRO:CG	2:C:842:ARG:NH2	2.73	0.52
2:C:709:GLU:HG2	2:C:710:ILE:N	2.24	0.52
2:C:870:ILE:C	2:C:871:LEU:HD12	2.35	0.52
2:C:944:LEU:O	2:C:947:ALA:HB3	2.09	0.52
3:D:72:VAL:HG22	3:D:73:CYS:H	1.75	0.52
3:D:474:GLU:OE1	3:D:500:ARG:HD3	2.10	0.52
3:D:853:VAL:HA	3:D:858:VAL:O	2.10	0.52
3:D:1008:PHE:O	3:D:1011:PHE:N	2.43	0.52
3:D:1208:ASP:OD1	3:D:1209:LEU:O	2.27	0.52
3:D:1368:ILE:O	3:D:1372:VAL:HG23	2.09	0.52
5:F:269:ASN:CB	5:F:273:ARG:HH21	2.08	0.52
1:K:122:ILE:HG22	1:K:124:ASN:H	1.74	0.52
2:M:418:LEU:HD22	2:M:418:LEU:N	2.25	0.52
2:M:545:ASN:HA	2:M:905:ILE:HG21	1.90	0.52
2:M:890:LEU:HD11	2:M:901:TYR:CD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:455:ARG:HG2	3:N:455:ARG:HH11	1.73	0.52
3:N:502:PHE:HZ	3:N:1452:ILE:HG13	1.72	0.52
3:N:545:ARG:O	3:N:549:ASN:HB2	2.09	0.52
3:N:556:LYS:NZ	5:P:218:GLN:NE2	2.55	0.52
3:N:570:GLU:OE2	5:P:214:GLN:HG3	2.09	0.52
3:N:685:ASP:O	3:N:686:GLU:C	2.53	0.52
3:N:1282:ARG:HB3	3:N:1282:ARG:CZ	2.38	0.52
3:N:1311:LEU:HA	3:N:1326:THR:HA	1.91	0.52
3:N:1343:ALA:C	3:N:1345:GLU:N	2.66	0.52
4:O:51:LEU:CG	4:O:52:GLU:H	2.16	0.52
5:P:340:SER:O	5:P:341:PRO:C	2.53	0.52
1:A:98:THR:C	1:A:99:LEU:HD12	2.34	0.52
1:B:24:VAL:HG12	1:B:25:LEU:N	2.25	0.52
2:C:841:ASN:ND2	2:C:841:ASN:O	2.25	0.52
2:C:1098:ASP:HB2	3:D:21:TRP:CZ2	2.44	0.52
3:D:604:THR:HA	3:D:607:LEU:HG	1.91	0.52
3:D:775:GLY:HA3	3:D:1145:TYR:CE1	2.39	0.52
3:D:915:VAL:O	3:D:918:ALA:N	2.42	0.52
5:F:136:LEU:HD12	5:F:137:GLY:N	2.25	0.52
1:L:94:LEU:HD11	1:L:119:ASP:CB	2.40	0.52
2:M:196:LEU:HA	2:M:199:VAL:HG23	1.91	0.52
2:M:578:VAL:HG23	2:M:579:VAL:CG1	2.30	0.52
3:N:760:ARG:HD3	4:O:61:GLU:OE1	2.10	0.52
3:N:763:MET:O	3:N:764:LEU:O	2.28	0.52
1:A:51:THR:HG22	1:A:146:ARG:CA	2.39	0.52
1:B:73:GLU:HB2	1:B:78:ILE:HG12	1.92	0.52
1:B:138:LEU:HD23	1:B:138:LEU:O	2.10	0.52
1:B:150:TYR:HA	1:B:169:ALA:O	2.10	0.52
2:C:281:LEU:HD23	2:C:281:LEU:N	2.24	0.52
2:C:841:ASN:HD22	2:C:843:HIS:H	1.58	0.52
3:D:661:MET:HE2	3:D:677:LEU:HD11	1.92	0.52
3:D:1099:VAL:HG22	3:D:1226:ALA:HB1	1.91	0.52
3:D:1103:HIS:CD2	3:D:1462:LEU:H	2.27	0.52
3:D:1304:LYS:O	3:D:1306:PRO:HD3	2.10	0.52
3:D:1361:VAL:O	3:D:1362:LYS:HD3	2.09	0.52
5:F:140:ARG:HG3	5:F:141:VAL:N	2.25	0.52
1:L:87:VAL:HG21	1:L:144:VAL:CG1	2.40	0.52
2:M:192:PRO:O	2:M:195:LEU:HB3	2.10	0.52
2:M:265:ARG:NE	2:M:267:TYR:HA	2.16	0.52
2:M:346:VAL:HG12	2:M:350:ARG:HE	1.74	0.52
2:M:374:ASN:O	2:M:377:PRO:HD2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1043:TYR:CE2	3:N:763:MET:HG3	2.45	0.52
3:N:28:LYS:HB3	3:N:30:GLU:HG2	1.92	0.52
3:N:423:ASP:N	5:P:178:ARG:NH1	2.58	0.52
3:N:466:LYS:HG2	3:N:510:GLU:HG2	1.90	0.52
3:N:646:LYS:HD3	3:N:722:GLU:OE2	2.10	0.52
3:N:1096:ARG:HH11	3:N:1096:ARG:CG	2.23	0.52
5:P:169:GLU:O	5:P:172:ARG:HB3	2.09	0.52
1:B:58:ILE:HB	1:B:61:VAL:HB	1.93	0.51
1:B:108:GLU:CG	1:B:131:THR:HG22	2.36	0.51
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.10	0.51
2:C:1045:ALA:HA	3:D:758:GLU:CD	2.34	0.51
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.92	0.51
3:D:653:PHE:CG	3:D:695:ILE:HD11	2.44	0.51
3:D:882:PHE:HA	3:D:885:ILE:HD12	1.91	0.51
3:D:936:TYR:O	3:D:937:TYR:C	2.53	0.51
3:D:1437:ALA:C	3:D:1446:VAL:HG11	2.34	0.51
3:D:1442:ASN:HD22	3:D:1446:VAL:CG2	2.23	0.51
3:D:1465:ASN:ND2	3:D:1470:ARG:NH1	2.58	0.51
2:M:138:SER:HA	2:M:339:LEU:HD11	1.92	0.51
2:M:495:THR:CG2	2:M:517:ARG:HE	2.21	0.51
3:N:47:GLU:OE1	3:N:52:PRO:HA	2.10	0.51
3:N:504:ASP:O	3:N:506:GLY:N	2.43	0.51
3:N:668:PRO:HD2	3:N:672:ALA:HB1	1.91	0.51
3:N:759:ALA:HA	3:N:763:MET:HB2	1.91	0.51
3:N:1116:ASN:N	3:N:1116:ASN:ND2	2.53	0.51
2:C:149:THR:HG23	2:C:150:PRO:HD2	1.92	0.51
2:C:622:GLU:C	2:C:624:PRO:HD3	2.35	0.51
1:K:37:GLY:O	1:K:38:ASN:C	2.53	0.51
1:L:2:LEU:HA	1:L:6:LEU:HB2	1.92	0.51
2:M:257:VAL:HG12	2:M:263:ASP:OD1	2.10	0.51
2:M:605:LYS:HD3	2:M:610:ARG:HH22	1.74	0.51
2:M:1109:VAL:HG11	3:N:3:LYS:O	2.11	0.51
3:N:162:ARG:HA	3:N:449:SER:CB	2.40	0.51
3:N:217:LYS:NZ	3:N:219:GLU:HB3	2.25	0.51
3:N:547:LEU:O	3:N:548:ILE:C	2.53	0.51
3:N:560:GLN:HE21	3:N:560:GLN:CA	2.18	0.51
3:N:1066:THR:HG23	3:N:1069:GLU:CG	2.39	0.51
3:N:1344:VAL:HG11	3:N:1421:LEU:HD22	1.92	0.51
3:N:1465:ASN:OD1	3:N:1465:ASN:O	2.28	0.51
3:N:1478:SER:C	3:N:1480:PHE:H	2.17	0.51
3:N:1495:ILE:HG12	4:O:80:VAL:HG11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:29:GLN:HE22	4:O:89:MET:HE3	1.76	0.51
2:C:7:GLY:HA3	2:C:907:ASP:O	2.11	0.51
2:C:26:TYR:HA	2:C:29:ALA:CB	2.40	0.51
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.35	0.51
2:C:1044:GLY:O	3:D:1475:GLY:HA3	2.11	0.51
3:D:19:ARG:HE	3:D:94:GLU:CD	2.18	0.51
3:D:584:ASN:OD1	3:D:590:PRO:CD	2.54	0.51
3:D:1071:PHE:HD1	3:D:1071:PHE:C	2.18	0.51
3:D:1258:ARG:O	3:D:1259:VAL:C	2.53	0.51
3:D:1478:SER:O	3:D:1482:ARG:HG3	2.11	0.51
4:E:44:GLU:O	4:E:45:ARG:HD3	2.10	0.51
5:F:152:ASP:CB	5:F:153:PRO:HD3	2.40	0.51
1:K:18:ARG:O	1:K:207:PRO:HD3	2.11	0.51
2:M:279:GLU:OE2	2:M:280:LYS:HE3	2.10	0.51
2:M:335:THR:O	2:M:339:LEU:HG	2.11	0.51
2:M:517:ARG:HG3	2:M:517:ARG:HH11	1.76	0.51
2:M:535:SER:OG	2:M:537:LYS:HD3	2.09	0.51
2:M:544:THR:HG22	2:M:550:LEU:HD21	1.93	0.51
2:M:1101:THR:O	2:M:1102:LEU:HD12	2.10	0.51
3:N:103:TRP:NE1	3:N:583:ASP:OD2	2.42	0.51
3:N:401:TYR:N	3:N:402:PRO:HD3	2.26	0.51
3:N:853:VAL:C	3:N:855:HIS:H	2.19	0.51
3:N:950:GLY:O	3:N:953:ASP:N	2.43	0.51
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.92	0.51
3:N:1340:GLY:O	3:N:1344:VAL:HG23	2.09	0.51
5:P:95:THR:HG22	5:P:96:LEU:HG	1.92	0.51
5:P:214:GLN:O	5:P:217:ASN:N	2.44	0.51
5:P:396:ARG:C	5:P:399:GLN:HB2	2.34	0.51
5:P:396:ARG:CA	5:P:399:GLN:HB2	2.40	0.51
1:B:85:LEU:HD12	1:B:124:ASN:CB	2.40	0.51
2:C:759:THR:HB	2:C:785:VAL:HG21	1.91	0.51
2:C:983:ILE:O	2:C:985:GLY:N	2.43	0.51
2:C:1047:HIS:ND1	3:D:1471:LEU:HD13	2.25	0.51
2:C:1095:LEU:O	2:C:1096:ALA:C	2.53	0.51
3:D:135:LEU:CD1	3:D:452:ILE:HD11	2.39	0.51
3:D:137:PRO:HD2	3:D:453:ASP:HB3	1.91	0.51
3:D:159:ARG:HG3	3:D:159:ARG:NH1	2.24	0.51
3:D:935:LYS:O	3:D:935:LYS:HG2	2.10	0.51
1:K:5:LYS:HA	1:K:5:LYS:HE3	1.93	0.51
1:K:23:PHE:O	1:K:196:THR:HA	2.10	0.51
1:L:137:ARG:HH22	1:L:139:ASN:HD22	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:223:THR:C	1:L:225:PHE:N	2.68	0.51
2:M:841:ASN:CG	2:M:842:ARG:N	2.68	0.51
2:M:881:ASN:ND2	2:M:881:ASN:N	2.56	0.51
2:M:1000:MET:CE	2:M:1001:VAL:HG22	2.39	0.51
3:N:188:GLY:HA2	3:N:210:ARG:NH1	2.26	0.51
3:N:477:LEU:HD22	3:N:492:ALA:O	2.10	0.51
3:N:550:ARG:HD3	3:N:573:MET:HE3	1.93	0.51
3:N:1425:THR:HG22	3:N:1426:LYS:N	2.24	0.51
3:N:1497:GLU:O	3:N:1501:GLU:HG3	2.10	0.51
5:P:239:ALA:O	5:P:240:THR:C	2.53	0.51
5:P:325:LYS:HB3	5:P:326:ASP:OD1	2.10	0.51
5:P:365:GLU:HA	5:P:368:VAL:HB	1.91	0.51
1:A:132:LEU:N	1:A:132:LEU:HD12	2.25	0.51
1:B:59:GLU:OE1	1:B:137:ARG:HG2	2.11	0.51
2:C:266:ARG:HG2	2:C:273:GLY:HA3	1.93	0.51
2:C:549:PHE:CE2	2:C:887:GLU:N	2.76	0.51
2:C:861:LEU:O	2:C:862:PRO:C	2.54	0.51
2:C:896:PHE:CZ	2:C:925:TYR:HB2	2.46	0.51
3:D:65:ARG:CG	3:D:66:GLN:H	2.24	0.51
3:D:91:GLY:O	3:D:519:VAL:HB	2.11	0.51
3:D:568:ARG:O	3:D:571:LYS:N	2.44	0.51
3:D:1000:THR:HG23	3:D:1041:LEU:HD21	1.92	0.51
3:D:1264:GLU:O	3:D:1265:ALA:C	2.54	0.51
3:D:1481:VAL:C	3:D:1483:PHE:N	2.67	0.51
4:E:40:LEU:HD13	4:E:45:ARG:HD2	1.92	0.51
1:L:132:LEU:HD21	1:L:138:LEU:HB2	1.92	0.51
2:M:69:LEU:C	2:M:70:GLU:HG3	2.36	0.51
2:M:244:PRO:CD	2:M:245:GLY:N	2.74	0.51
2:M:288:ARG:O	2:M:288:ARG:HD3	2.11	0.51
2:M:393:GLN:OE1	2:M:393:GLN:N	2.40	0.51
2:M:580:MET:HB2	2:M:902:ILE:HG12	1.92	0.51
2:M:599:GLU:HA	2:M:651:LYS:CB	2.40	0.51
2:M:949:LYS:NZ	3:N:796:ARG:HH21	2.01	0.51
3:N:427:VAL:O	3:N:433:GLY:O	2.28	0.51
3:N:987:GLU:O	3:N:991:GLN:HB2	2.10	0.51
5:P:261:PRO:O	5:P:265:VAL:HG23	2.11	0.51
2:C:18:LEU:H	2:C:18:LEU:HD12	1.75	0.51
2:C:559:LEU:O	2:C:562:SER:N	2.44	0.51
3:D:34:TYR:O	3:D:35:ARG:C	2.54	0.51
3:D:98:PRO:HG2	3:D:462:GLN:NE2	2.25	0.51
3:D:396:VAL:HG12	3:D:397:LYS:N	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:541:ASN:O	3:D:545:ARG:HG3	2.11	0.51
3:D:625:TYR:CE1	3:D:751:LEU:HD11	2.45	0.51
3:D:679:ARG:NH2	3:D:681:ARG:HE	2.06	0.51
3:D:681:ARG:HG3	3:D:682:ASP:N	2.26	0.51
3:D:684:LYS:C	3:D:686:GLU:N	2.68	0.51
3:D:700:VAL:HG22	3:D:718:PRO:HG3	1.92	0.51
3:D:1138:ALA:O	3:D:1140:ILE:N	2.43	0.51
3:D:1396:GLU:O	3:D:1397:LYS:C	2.51	0.51
5:F:164:LYS:CB	5:F:171:LYS:HZ3	2.24	0.51
1:K:13:VAL:HG12	1:K:14:ARG:H	1.74	0.51
1:L:132:LEU:HD12	1:L:132:LEU:N	2.25	0.51
2:M:279:GLU:CD	2:M:280:LYS:HE3	2.35	0.51
2:M:397:GLU:HG2	2:M:632:ASN:HB2	1.93	0.51
2:M:456:ALA:HB3	2:M:459:ALA:HB2	1.92	0.51
2:M:494:TYR:CD1	2:M:531:PHE:CE1	2.99	0.51
2:M:745:ILE:HG22	2:M:746:GLY:H	1.75	0.51
2:M:880:MET:HE2	3:N:1038:LEU:HD11	1.93	0.51
2:M:1059:ASP:OD2	2:M:1080:SER:HB2	2.11	0.51
2:M:1095:LEU:O	2:M:1096:ALA:C	2.53	0.51
3:N:40:GLU:CG	3:N:41:ARG:H	2.19	0.51
3:N:172:PRO:CB	3:N:178:LEU:HD22	2.41	0.51
3:N:485:SER:O	3:N:486:ARG:C	2.53	0.51
3:N:560:GLN:HG2	5:P:221:ILE:HG21	1.93	0.51
3:N:660:LYS:O	3:N:664:LYS:HB2	2.10	0.51
3:N:1135:ARG:CB	3:N:1135:ARG:HH11	2.22	0.51
3:N:1258:ARG:NH2	3:N:1351:GLU:HG2	2.07	0.51
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.10	0.51
3:N:1478:SER:O	3:N:1480:PHE:N	2.44	0.51
4:O:40:LEU:HB2	4:O:45:ARG:NE	2.25	0.51
5:P:170:HIS:O	5:P:173:TYR:HB2	2.11	0.51
5:P:358:LEU:HD21	5:P:370:LYS:HZ2	1.76	0.51
2:C:221:LEU:O	2:C:221:LEU:HG	2.10	0.51
2:C:704:HIS:CD2	2:C:831:ARG:HH22	2.28	0.51
2:C:717:LEU:HD21	2:C:764:GLU:O	2.11	0.51
2:C:915:LYS:NZ	3:D:952:ASP:CG	2.68	0.51
3:D:493:ARG:HE	3:D:1389:LEU:CD2	2.23	0.51
3:D:783:ARG:HE	3:D:1029:ARG:CZ	2.24	0.51
3:D:1368:ILE:O	3:D:1368:ILE:HG22	2.11	0.51
3:D:1481:VAL:C	3:D:1483:PHE:H	2.18	0.51
4:E:40:LEU:HB2	4:E:45:ARG:NE	2.25	0.51
5:F:120:THR:CG2	5:F:122:LEU:HD13	2.20	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:189:ARG:NH1	1:L:155:LYS:CE	2.74	0.51
2:M:337:GLY:O	2:M:338:GLU:C	2.54	0.51
3:N:35:ARG:HH11	3:N:35:ARG:CB	2.23	0.51
3:N:396:VAL:HG12	3:N:397:LYS:N	2.24	0.51
3:N:556:LYS:C	3:N:558:LEU:H	2.19	0.51
3:N:1042:ARG:NH2	3:N:1045:MET:HE1	2.24	0.51
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.92	0.51
3:N:1197:ARG:HD2	3:N:1396:GLU:HB2	1.92	0.51
3:N:1313:VAL:HG23	3:N:1314:LYS:NZ	2.25	0.51
1:A:20:TYR:OH	1:A:198:ARG:NH2	2.44	0.51
1:A:101:LEU:HD12	1:A:102:LYS:N	2.26	0.51
2:C:1:MET:SD	2:C:900:ARG:NH1	2.84	0.51
2:C:607:ASP:HB2	2:C:610:ARG:CG	2.41	0.51
2:C:691:SER:HA	2:C:858:MET:HE3	1.93	0.51
2:C:734:LEU:CD1	2:C:737:LEU:HD22	2.41	0.51
2:C:1050:GLN:HG3	3:D:1469:GLY:O	2.11	0.51
3:D:186:VAL:HG13	3:D:187:LYS:N	2.26	0.51
3:D:661:MET:CE	3:D:677:LEU:HD11	2.41	0.51
3:D:1451:ALA:O	3:D:1452:ILE:C	2.53	0.51
5:F:101:GLU:O	5:F:105:LYS:HG3	2.11	0.51
1:K:109:VAL:CG2	1:K:132:LEU:HD13	2.39	0.51
1:K:110:LYS:N	1:K:113:ASP:OD2	2.41	0.51
2:M:176:VAL:C	2:M:178:PRO:HD3	2.36	0.51
2:M:682:TYR:CG	3:N:635:PRO:HG2	2.45	0.51
2:M:686:ASP:O	3:N:740:PHE:HB2	2.11	0.51
2:M:766:GLU:OE1	3:N:54:LYS:HG2	2.11	0.51
2:M:1018:GLN:CG	2:M:1060:ILE:HD11	2.30	0.51
3:N:23:TYR:O	3:N:24:GLY:O	2.29	0.51
3:N:208:PRO:HB2	3:N:395:VAL:CG1	2.41	0.51
3:N:553:ARG:NE	5:P:214:GLN:HB3	2.25	0.51
4:O:14:ASP:OD1	4:O:18:ARG:NH1	2.44	0.51
5:P:132:ARG:HB3	5:P:136:LEU:HD21	1.91	0.51
5:P:360:LYS:O	5:P:361:LEU:HD23	2.10	0.51
1:A:124:ASN:OD1	1:A:127:LEU:HB3	2.10	0.51
2:C:1089:VAL:O	2:C:1093:GLN:HG3	2.11	0.51
3:D:517:VAL:HG11	3:D:581:LEU:HD21	1.93	0.51
3:D:877:PRO:O	3:D:880:ILE:HG22	2.10	0.51
3:D:1033:GLN:HE21	3:D:1036:ARG:NH1	2.09	0.51
3:D:1147:ARG:HB2	3:D:1188:VAL:HG21	1.93	0.51
3:D:1434:TRP:CE3	3:D:1457:ASP:HB2	2.46	0.51
5:F:368:VAL:HG11	5:F:389:PHE:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:99:GLN:HG3	2:M:99:GLN:O	2.10	0.51
2:M:226:VAL:O	2:M:230:ARG:HD3	2.11	0.51
2:M:585:GLU:HG2	2:M:665:PHE:HE2	1.76	0.51
2:M:910:LYS:CB	2:M:913:GLU:HG3	2.39	0.51
3:N:426:LYS:HA	3:N:434:ARG:HD2	1.92	0.51
3:N:750:PRO:HG2	3:N:756:GLN:OE1	2.11	0.51
3:N:828:LYS:C	3:N:829:VAL:HG22	2.35	0.51
3:N:853:VAL:C	3:N:855:HIS:N	2.68	0.51
3:N:1083:ASP:OD1	3:N:1238:MET:HB3	2.11	0.51
3:N:1200:VAL:HG22	3:N:1373:ARG:NH1	2.26	0.51
5:P:105:LYS:HB3	5:P:105:LYS:HZ2	1.73	0.51
5:P:152:ASP:CB	5:P:153:PRO:HD3	2.35	0.51
5:P:321:ILE:HG13	5:P:329:TYR:HA	1.93	0.51
1:B:86:VAL:H	1:B:124:ASN:HB2	1.75	0.51
2:C:64:LEU:HD13	2:C:359:MET:HE3	1.92	0.51
2:C:774:LEU:HD13	2:C:775:ARG:N	2.26	0.51
2:C:810:ASP:HB3	2:C:813:VAL:CG2	2.41	0.51
2:C:889:HIS:CE1	2:C:970:GLY:HA3	2.46	0.51
2:C:946:ARG:CD	2:C:984:GLU:HB2	2.40	0.51
3:D:93:ILE:CD1	3:D:548:ILE:HD11	2.40	0.51
3:D:247:GLU:H	3:D:248:PRO:CD	2.22	0.51
3:D:571:LYS:HZ2	3:D:571:LYS:HB2	1.75	0.51
3:D:703:ASN:ND2	3:D:704:ARG:N	2.59	0.51
3:D:1202:GLN:HG2	3:D:1215:VAL:HG13	1.93	0.51
3:D:1227:GLN:O	3:D:1230:GLY:N	2.44	0.51
3:D:1313:VAL:HG22	3:D:1314:LYS:N	2.19	0.51
3:D:1404:ASN:OD1	3:D:1408:ILE:HD12	2.11	0.51
3:D:1478:SER:C	3:D:1482:ARG:HG3	2.36	0.51
2:M:446:GLY:O	2:M:447:ALA:C	2.54	0.51
2:M:1032:PHE:HB2	3:N:623:VAL:CG2	2.41	0.51
3:N:140:ALA:N	3:N:147:VAL:HG22	2.26	0.51
3:N:245:LEU:HD22	3:N:245:LEU:C	2.36	0.51
3:N:637:LEU:HD23	3:N:729:HIS:N	2.25	0.51
3:N:675:ARG:HH11	3:N:675:ARG:CB	2.24	0.51
3:N:1295:GLU:HB3	3:N:1300:SER:CA	2.35	0.51
2:C:106:GLY:C	2:C:107:LEU:HD23	2.36	0.50
2:C:154:ARG:NH1	2:C:154:ARG:HB2	2.26	0.50
2:C:226:VAL:HG13	2:C:227:PHE:N	2.22	0.50
2:C:256:TYR:O	2:C:259:GLY:N	2.44	0.50
2:C:783:ARG:C	2:C:785:VAL:H	2.19	0.50
2:C:1021:LEU:HD22	5:F:331:ASP:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:166:GLN:NE2	3:D:168:THR:OG1	2.43	0.50
3:D:378:ILE:H	3:D:378:ILE:HD13	1.76	0.50
3:D:559:ALA:C	3:D:561:GLY:H	2.19	0.50
3:D:581:LEU:HG	3:D:582:LEU:N	2.26	0.50
3:D:671:LYS:HG3	5:F:422:LEU:HA	1.92	0.50
3:D:884:ARG:HA	3:D:887:ALA:HB3	1.92	0.50
3:D:1312:LEU:HD11	3:D:1327:ARG:HG3	1.93	0.50
3:D:1368:ILE:O	3:D:1372:VAL:CG2	2.58	0.50
1:K:178:ALA:HB2	2:M:864:GLY:H	1.76	0.50
1:L:152:PRO:HG3	3:N:857:ILE:HD12	1.93	0.50
2:M:21:ILE:HD12	2:M:21:ILE:N	2.21	0.50
2:M:196:LEU:O	2:M:199:VAL:HB	2.11	0.50
2:M:404:LEU:O	2:M:408:ARG:HG2	2.10	0.50
2:M:575:GLN:O	2:M:667:ALA:CB	2.59	0.50
2:M:728:HIS:C	2:M:729:LEU:HD22	2.36	0.50
2:M:777:ILE:HG22	2:M:778:PHE:HD1	1.76	0.50
3:N:65:ARG:HG3	3:N:66:GLN:N	2.27	0.50
3:N:142:LEU:HD12	3:N:142:LEU:O	2.11	0.50
3:N:639:LEU:HD22	3:N:765:SER:OG	2.11	0.50
3:N:692:GLU:O	3:N:695:ILE:HG22	2.11	0.50
3:N:930:LEU:HD11	3:N:934:LEU:CD1	2.41	0.50
3:N:1243:THR:O	3:N:1269:LYS:HD3	2.11	0.50
3:N:1295:GLU:CD	3:N:1300:SER:HG	2.19	0.50
3:N:1461:GLY:O	3:N:1473:PRO:HG2	2.11	0.50
1:A:18:ARG:HH12	1:A:88:ARG:NE	2.06	0.50
1:A:104:GLU:HG2	1:A:137:ARG:HD2	1.93	0.50
1:B:25:LEU:CD2	1:B:28:LEU:HD11	2.41	0.50
1:B:179:PHE:HA	1:B:196:THR:O	2.11	0.50
2:C:16:PRO:O	2:C:17:PRO:C	2.51	0.50
2:C:333:ILE:HD13	2:C:467:ILE:HD11	1.93	0.50
2:C:559:LEU:O	2:C:560:MET:C	2.54	0.50
2:C:838:LYS:HB3	2:C:848:VAL:HG22	1.93	0.50
2:C:859:PRO:O	2:C:867:VAL:HG22	2.12	0.50
2:C:923:GLU:CD	2:C:927:GLY:CA	2.84	0.50
2:C:1010:THR:CG2	2:C:1011:GLY:N	2.74	0.50
2:C:1059:ASP:CG	2:C:1080:SER:HB2	2.36	0.50
3:D:221:ALA:HB3	3:D:367:ILE:HB	1.93	0.50
3:D:544:TYR:O	3:D:545:ARG:C	2.51	0.50
3:D:1074:SER:O	3:D:1077:ALA:CB	2.59	0.50
3:D:1278:ASP:OD1	3:D:1278:ASP:N	2.43	0.50
3:D:1487:VAL:HG12	3:D:1488:ASP:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.46	0.50
1:L:226:SER:O	1:L:228:PRO:HD3	2.11	0.50
2:M:176:VAL:CG1	2:M:182:VAL:HG13	2.37	0.50
2:M:705:ILE:HG22	2:M:705:ILE:O	2.10	0.50
3:N:387:LEU:HG	5:P:97:GLU:HB2	1.93	0.50
3:N:685:ASP:O	3:N:687:VAL:N	2.44	0.50
3:N:959:GLU:O	3:N:963:TYR:HD1	1.94	0.50
3:N:1423:GLY:C	3:N:1425:THR:H	2.19	0.50
5:P:152:ASP:HB2	5:P:153:PRO:CD	2.36	0.50
5:P:256:ARG:HG2	5:P:256:ARG:HH11	1.76	0.50
1:B:156:HIS:H	1:B:156:HIS:CD2	2.29	0.50
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.36	0.50
3:D:23:TYR:CE2	3:D:89:ARG:NH1	2.79	0.50
3:D:131:LYS:CB	3:D:456:MET:HE2	2.41	0.50
3:D:484:PRO:O	3:D:489:ARG:HD2	2.11	0.50
3:D:818:ARG:O	3:D:821:VAL:HB	2.11	0.50
3:D:1033:GLN:NE2	3:D:1036:ARG:NH1	2.59	0.50
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.12	0.50
5:F:148:LYS:O	5:F:148:LYS:HE3	2.11	0.50
5:F:336:GLU:O	5:F:337:HIS:C	2.54	0.50
1:K:146:ARG:NH2	1:K:148:VAL:HG13	2.26	0.50
1:L:133:GLU:CG	1:L:134:GLU:N	2.75	0.50
2:M:157:ARG:NE	2:M:314:THR:HA	2.26	0.50
2:M:432:ARG:HH12	3:N:1047:LYS:HZ3	1.58	0.50
2:M:545:ASN:OD1	2:M:905:ILE:HG21	2.11	0.50
2:M:586:ARG:O	2:M:589:ARG:N	2.36	0.50
2:M:607:ASP:HB2	2:M:610:ARG:H	1.75	0.50
3:N:6:ARG:C	3:N:7:LYS:HG3	2.37	0.50
3:N:119:SER:H	3:N:123:LEU:HD12	1.76	0.50
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.92	0.50
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.93	0.50
3:N:493:ARG:NE	3:N:1389:LEU:HD21	2.26	0.50
3:N:1034:GLN:O	3:N:1038:LEU:HD13	2.12	0.50
3:N:1346:ARG:HG3	3:N:1346:ARG:HH11	1.76	0.50
5:P:94:LEU:HD13	5:P:94:LEU:C	2.37	0.50
1:A:138:LEU:HG	1:A:138:LEU:O	2.11	0.50
1:B:34:VAL:HG22	1:B:181:VAL:HG21	1.94	0.50
2:C:71:TYR:CD2	2:C:71:TYR:N	2.79	0.50
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.93	0.50
2:C:805:ARG:O	2:C:806:LEU:HD23	2.11	0.50
3:D:9:ARG:HH22	3:D:11:ALA:CB	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:93:ILE:HD13	3:D:547:LEU:HD23	1.94	0.50
3:D:382:GLU:HG2	3:D:383:GLY:N	2.18	0.50
3:D:598:ARG:HH12	5:F:320:PRO:HD3	1.77	0.50
3:D:651:GLU:OE1	3:D:654:LYS:HE3	2.11	0.50
3:D:869:MET:HE1	3:D:894:LYS:HE3	1.93	0.50
3:D:972:LEU:HD23	3:D:973:GLN:N	2.25	0.50
3:D:1373:ARG:CG	3:D:1374:GLN:HE21	2.24	0.50
1:L:2:LEU:HD12	1:L:3:ASP:H	1.77	0.50
2:M:15:LEU:HD12	2:M:15:LEU:N	2.25	0.50
2:M:350:ARG:CB	2:M:377:PRO:HB3	2.38	0.50
2:M:367:LEU:O	2:M:371:LYS:HB3	2.10	0.50
2:M:398:THR:HG22	2:M:635:THR:HG21	1.91	0.50
2:M:465:GLY:O	2:M:466:PHE:HD1	1.95	0.50
3:N:1498:ALA:O	3:N:1501:GLU:HB2	2.12	0.50
1:A:90:LEU:HD12	1:A:119:ASP:HA	1.93	0.50
2:C:385:PHE:C	2:C:387:SER:H	2.20	0.50
2:C:445:GLU:HG3	2:C:446:GLY:H	1.77	0.50
2:C:495:THR:HG23	2:C:517:ARG:HE	1.76	0.50
2:C:515:ALA:O	2:C:522:VAL:O	2.29	0.50
2:C:627:ARG:O	2:C:638:ASP:HA	2.11	0.50
2:C:1038:TRP:O	3:D:1223:ILE:HG21	2.12	0.50
3:D:493:ARG:NE	3:D:1389:LEU:HD21	2.26	0.50
3:D:659:LYS:HE2	3:D:663:GLU:OE1	2.12	0.50
3:D:724:GLN:O	3:D:724:GLN:CG	2.58	0.50
3:D:843:PHE:HZ	3:D:858:VAL:HG21	1.76	0.50
5:F:155:THR:O	5:F:159:ILE:HG13	2.12	0.50
1:L:171:PHE:O	1:L:172:SER:C	2.55	0.50
2:M:72:ARG:HH11	2:M:72:ARG:HG3	1.77	0.50
2:M:82:GLU:O	2:M:86:LYS:HB2	2.11	0.50
2:M:196:LEU:HA	2:M:199:VAL:CG2	2.42	0.50
2:M:397:GLU:N	2:M:633:GLN:OE1	2.45	0.50
2:M:839:LEU:HD12	2:M:994:ILE:HG21	1.93	0.50
2:M:1052:MET:HG3	3:N:623:VAL:HG21	1.93	0.50
2:M:1059:ASP:OD1	2:M:1062:GLY:N	2.38	0.50
3:N:404:GLU:OE1	3:N:414:ARG:NE	2.45	0.50
3:N:759:ALA:HA	3:N:763:MET:CB	2.42	0.50
3:N:912:LYS:HB3	3:N:912:LYS:HZ3	1.77	0.50
3:N:1494:ALA:HA	3:N:1497:GLU:HG2	1.94	0.50
5:P:135:ILE:HG21	5:P:181:GLU:HB3	1.93	0.50
5:P:172:ARG:O	5:P:176:ILE:HG13	2.11	0.50
5:P:340:SER:O	5:P:343:ASP:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:GLU:O	1:A:76:VAL:HG22	2.12	0.50
1:A:201:THR:HG22	1:A:202:ASP:N	2.26	0.50
1:B:110:LYS:C	1:B:112:ARG:H	2.19	0.50
1:B:175:ARG:HB2	1:B:200:TRP:HB3	1.94	0.50
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.41	0.50
2:C:689:VAL:HG11	2:C:853:LEU:HD22	1.93	0.50
2:C:889:HIS:C	2:C:891:GLY:N	2.69	0.50
3:D:34:TYR:CE2	5:F:260:ILE:HG13	2.47	0.50
3:D:225:LEU:HB2	3:D:227:LEU:CD2	2.41	0.50
3:D:804:LEU:HD12	3:D:831:GLY:HA3	1.93	0.50
3:D:930:LEU:HA	3:D:933:ALA:HB3	1.93	0.50
3:D:1426:LYS:C	3:D:1428:ALA:N	2.68	0.50
4:E:46:PRO:CB	4:E:54:LEU:HD22	2.41	0.50
4:E:48:MET:H	4:E:54:LEU:HB2	1.76	0.50
1:K:13:VAL:CG1	1:K:14:ARG:H	2.25	0.50
1:K:206:THR:HG22	1:K:209:GLU:HB2	1.94	0.50
2:M:18:LEU:HB2	2:M:590:ASP:CG	2.37	0.50
2:M:413:LEU:HD11	2:M:451:LEU:HB3	1.92	0.50
2:M:1067:TYR:OH	3:N:674:ARG:NH1	2.44	0.50
2:M:1086:ARG:HD3	2:M:1112:PHE:CE2	2.47	0.50
3:N:698:LYS:HA	3:N:756:GLN:HE21	1.77	0.50
3:N:793:THR:O	3:N:905:PRO:HA	2.10	0.50
3:N:1277:ILE:CG2	3:N:1278:ASP:N	2.73	0.50
5:P:410:TYR:O	5:P:414:ARG:HG3	2.12	0.50
1:B:23:PHE:CE1	1:B:208:LEU:HD13	2.47	0.50
1:B:124:ASN:OD1	1:B:127:LEU:HB2	2.12	0.50
2:C:25:SER:O	2:C:29:ALA:HB2	2.11	0.50
2:C:128:ILE:HG22	2:C:128:ILE:O	2.10	0.50
2:C:137:VAL:HG13	2:C:409:ARG:O	2.11	0.50
2:C:534:VAL:O	2:C:535:SER:HB3	2.11	0.50
2:C:630:ARG:HD2	2:C:634:GLY:HA2	1.93	0.50
2:C:911:GLU:O	2:C:915:LYS:HG2	2.12	0.50
2:C:944:LEU:HD21	2:C:963:LEU:HD23	1.94	0.50
3:D:218:LYS:HE3	3:D:371:ILE:H	1.77	0.50
3:D:955:VAL:HG11	3:D:1015:TYR:HE2	1.72	0.50
3:D:1406:ARG:O	3:D:1406:ARG:HG2	2.10	0.50
5:F:167:PRO:HB2	5:F:170:HIS:HD2	1.77	0.50
5:F:192:LEU:HD23	5:F:195:VAL:HG21	1.93	0.50
1:L:15:THR:O	1:L:16:GLN:OE1	2.30	0.50
1:L:86:VAL:HG13	1:L:86:VAL:O	2.12	0.50
2:M:77:PRO:HD3	2:M:93:PRO:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:137:VAL:CG2	2:M:393:GLN:NE2	2.70	0.50
2:M:730:SER:OG	2:M:731:GLU:N	2.39	0.50
2:M:755:LEU:O	2:M:756:VAL:CG2	2.60	0.50
3:N:230:TRP:O	3:N:378:ILE:HD11	2.12	0.50
3:N:600:LEU:H	3:N:600:LEU:HD23	1.75	0.50
3:N:629:SER:HB3	3:N:726:ILE:CG1	2.41	0.50
3:N:638:LYS:O	3:N:640:HIS:N	2.45	0.50
3:N:1148:VAL:HG22	3:N:1163:GLY:C	2.37	0.50
3:N:1209:LEU:HD23	4:O:16:LYS:HD2	1.93	0.50
3:N:1274:ILE:HD12	3:N:1274:ILE:H	1.77	0.50
4:O:19:LEU:O	4:O:22:VAL:HB	2.11	0.50
1:A:90:LEU:HD12	1:A:119:ASP:O	2.12	0.50
1:B:219:ARG:C	1:B:221:HIS:H	2.18	0.50
2:C:403:SER:CB	2:C:407:LYS:HZ3	2.24	0.50
2:C:819:VAL:HG11	2:C:822:VAL:HG13	1.94	0.50
2:C:881:ASN:N	2:C:881:ASN:ND2	2.58	0.50
2:C:884:GLN:HG3	2:C:992:MET:CE	2.42	0.50
2:C:1092:LEU:HD11	3:D:1447:LEU:HD21	1.93	0.50
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.77	0.50
3:D:135:LEU:HD11	3:D:452:ILE:CD1	2.41	0.50
3:D:583:ASP:OD1	3:D:604:THR:CG2	2.55	0.50
3:D:671:LYS:O	3:D:674:ARG:HB2	2.12	0.50
3:D:1331:ASP:OD2	3:D:1331:ASP:C	2.54	0.50
5:F:191:ASN:HD22	5:F:191:ASN:N	2.10	0.50
1:L:132:LEU:HD21	1:L:138:LEU:HB3	1.94	0.50
2:M:9:ILE:O	2:M:10:ARG:C	2.54	0.50
2:M:207:LEU:CD2	2:M:211:LEU:HD22	2.42	0.50
2:M:276:LYS:HG2	2:M:280:LYS:NZ	2.27	0.50
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.93	0.50
2:M:769:PRO:O	2:M:772:ARG:HB3	2.12	0.50
2:M:838:LYS:HD3	2:M:846:LYS:HE2	1.92	0.50
3:N:172:PRO:HG3	3:N:178:LEU:HD22	1.93	0.50
3:N:701:LEU:HD21	3:N:763:MET:CE	2.19	0.50
3:N:769:LEU:CD2	3:N:927:THR:HG22	2.42	0.50
3:N:869:MET:HE1	3:N:894:LYS:HG3	1.94	0.50
3:N:1316:GLY:O	3:N:1317:ASP:OD1	2.30	0.50
5:P:205:ARG:CB	5:P:251:ILE:HD13	2.42	0.50
1:A:22:GLU:C	1:A:23:PHE:CD2	2.90	0.50
1:B:27:PRO:HG2	1:B:186:LEU:CD1	2.39	0.50
1:B:190:THR:O	1:B:190:THR:HG22	2.12	0.50
3:D:740:PHE:C	3:D:742:GLY:N	2.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:786:ILE:O	3:D:787:LEU:C	2.55	0.50
3:D:1118:ILE:HD11	3:D:1346:ARG:CZ	2.42	0.50
3:D:1487:VAL:CG1	3:D:1488:ASP:N	2.75	0.50
5:F:370:LYS:O	5:F:374:GLY:HA3	2.11	0.50
1:K:11:PHE:HE1	1:L:225:PHE:HD2	1.60	0.50
1:K:181:VAL:HG12	2:M:938:LYS:HD2	1.94	0.50
2:M:52:PHE:O	2:M:54:ILE:N	2.45	0.50
2:M:226:VAL:HG13	2:M:227:PHE:CD1	2.47	0.50
2:M:491:GLU:HB2	2:M:496:ILE:CD1	2.32	0.50
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.93	0.50
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.41	0.50
2:M:888:THR:O	2:M:892:LEU:N	2.39	0.50
3:N:462:GLN:HG3	3:N:466:LYS:HE3	1.94	0.50
3:N:471:GLU:OE2	3:N:503:LEU:HD21	2.12	0.50
5:P:101:GLU:O	5:P:104:ARG:HB3	2.11	0.50
5:P:135:ILE:CD1	5:P:178:ARG:HD2	2.42	0.50
1:A:153:ALA:O	1:A:154:GLU:C	2.55	0.49
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.93	0.49
1:B:87:VAL:CG1	1:B:122:ILE:HG12	2.42	0.49
2:C:129:ILE:HG22	2:C:130:ASN:N	2.27	0.49
2:C:129:ILE:HD12	2:C:129:ILE:N	2.27	0.49
2:C:758:ARG:NH2	2:C:788:THR:O	2.45	0.49
2:C:897:LEU:CD1	2:C:921:ALA:HB2	2.30	0.49
3:D:77:GLY:O	3:D:78:VAL:HG23	2.12	0.49
3:D:225:LEU:HB3	3:D:226:PRO:CD	2.42	0.49
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.12	0.49
3:D:714:GLN:NE2	3:D:735:ALA:HB1	2.26	0.49
3:D:899:LEU:H	3:D:899:LEU:CD1	2.23	0.49
3:D:901:GLN:C	3:D:903:ASP:H	2.19	0.49
3:D:951:ILE:HD12	3:D:1062:ARG:HE	1.77	0.49
3:D:1441:GLN:CA	3:D:1441:GLN:HE21	2.25	0.49
5:F:287:THR:HG23	5:F:289:GLU:N	2.20	0.49
5:F:353:GLU:OE2	5:F:356:LYS:HD2	2.11	0.49
1:K:146:ARG:HH21	1:K:147:GLY:HA2	1.76	0.49
1:K:147:GLY:O	1:K:148:VAL:HG13	2.12	0.49
2:M:313:LEU:HD13	2:M:321:GLU:O	2.12	0.49
2:M:533:ASP:HB3	2:M:538:GLN:NE2	2.26	0.49
2:M:1013:TYR:HE2	5:P:341:PRO:HD2	1.77	0.49
3:N:119:SER:HB2	3:N:123:LEU:H	1.77	0.49
3:N:486:ARG:NH2	3:N:489:ARG:NE	2.59	0.49
3:N:601:ARG:NH1	3:N:605:ASP:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:658:LEU:HD22	3:N:673:ALA:HB3	1.94	0.49
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.41	0.49
3:N:1102:THR:HG22	3:N:1222:GLY:HA3	1.94	0.49
3:N:1470:ARG:HG2	3:N:1471:LEU:N	2.27	0.49
1:A:143:ARG:HH21	1:A:158:ILE:HG13	1.76	0.49
1:A:228:PRO:HA	1:B:11:PHE:O	2.11	0.49
2:C:631:SER:OG	2:C:635:THR:N	2.44	0.49
2:C:884:GLN:HG3	2:C:992:MET:HE1	1.94	0.49
2:C:919:ALA:CA	2:C:968:LEU:HD21	2.42	0.49
2:C:1024:LYS:HB2	2:C:1024:LYS:HZ2	1.78	0.49
3:D:660:LYS:HA	3:D:663:GLU:HG3	1.93	0.49
3:D:710:ARG:HG3	3:D:711:LEU:H	1.75	0.49
3:D:951:ILE:HG23	3:D:1062:ARG:NH2	2.26	0.49
3:D:988:ARG:NH2	3:D:1054:GLU:OE2	2.45	0.49
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.42	0.49
5:F:385:GLU:O	5:F:388:ALA:HB3	2.12	0.49
1:K:225:PHE:CD2	1:L:215:VAL:HG11	2.47	0.49
1:L:66:SER:O	1:L:75:VAL:HG23	2.11	0.49
1:L:176:ARG:NH2	3:N:884:ARG:NE	2.60	0.49
2:M:250:ARG:HB3	2:M:253:ALA:HB2	1.94	0.49
2:M:348:LEU:O	2:M:351:LEU:HB3	2.12	0.49
2:M:382:ILE:O	2:M:385:PHE:HB3	2.11	0.49
2:M:470:PRO:HB2	2:M:534:VAL:CG2	2.42	0.49
2:M:944:LEU:HD21	2:M:963:LEU:CD2	2.41	0.49
2:M:1043:TYR:CD2	3:N:763:MET:HA	2.47	0.49
2:M:1114:GLY:C	2:M:1116:ALA:N	2.70	0.49
3:N:212:ARG:HB3	3:N:394:LEU:HD22	1.94	0.49
3:N:664:LYS:HB3	3:N:666:ILE:HG13	1.94	0.49
3:N:806:PHE:O	3:N:808:THR:N	2.45	0.49
3:N:1498:ALA:HA	3:N:1501:GLU:OE2	2.12	0.49
5:P:284:ARG:O	5:P:286:PRO:HD3	2.11	0.49
1:B:42:ARG:NH1	2:C:981:GLU:HG2	2.27	0.49
2:C:67:ASP:HB2	2:C:99:GLN:CG	2.42	0.49
2:C:385:PHE:HD2	2:C:386:PHE:CD1	2.30	0.49
2:C:417:GLY:C	2:C:418:LEU:HD22	2.37	0.49
2:C:771:GLU:O	2:C:771:GLU:CG	2.58	0.49
2:C:1036:GLU:CD	3:D:707:THR:HG1	2.20	0.49
3:D:661:MET:HE1	3:D:677:LEU:HD21	1.94	0.49
3:D:679:ARG:CZ	3:D:681:ARG:HG2	2.42	0.49
3:D:919:PHE:C	3:D:919:PHE:HD2	2.19	0.49
3:D:1107:VAL:CG1	3:D:1217:ILE:HA	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1130:ARG:HG2	3:D:1130:ARG:HH11	1.76	0.49
1:L:2:LEU:HA	1:L:6:LEU:CB	2.42	0.49
2:M:265:ARG:HE	2:M:267:TYR:CA	2.14	0.49
2:M:304:LEU:HD23	2:M:304:LEU:C	2.37	0.49
2:M:474:VAL:HG13	2:M:474:VAL:O	2.13	0.49
2:M:603:VAL:HG23	2:M:647:GLN:O	2.11	0.49
2:M:677:MET:O	2:M:873:PRO:HD3	2.13	0.49
2:M:704:HIS:CE1	2:M:706:GLU:OE1	2.66	0.49
2:M:1118:LYS:O	2:M:1119:ARG:HB2	2.12	0.49
3:N:539:ASP:HB2	5:P:318:GLU:OE1	2.12	0.49
3:N:600:LEU:HD23	3:N:600:LEU:N	2.27	0.49
3:N:828:LYS:HB3	3:N:862:ASP:OD2	2.13	0.49
3:N:911:LEU:O	3:N:912:LYS:C	2.54	0.49
3:N:1304:LYS:O	3:N:1305:LEU:HG	2.12	0.49
3:N:1363:LEU:HD11	3:N:1368:ILE:HD11	1.93	0.49
3:N:1372:VAL:HA	3:N:1375:MET:SD	2.52	0.49
3:N:1396:GLU:HA	3:N:1399:ASP:CG	2.37	0.49
5:P:350:LEU:CA	5:P:422:LEU:HD13	2.33	0.49
1:B:44:LEU:HD23	1:B:48:ILE:CD1	2.42	0.49
2:C:338:GLU:HA	2:C:341:THR:HG22	1.93	0.49
2:C:762:LYS:HB2	2:C:762:LYS:HZ2	1.75	0.49
3:D:85:VAL:CG1	3:D:89:ARG:NE	2.76	0.49
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.94	0.49
3:D:554:LEU:C	3:D:554:LEU:CD1	2.85	0.49
3:D:785:ILE:O	3:D:789:LEU:HG	2.11	0.49
3:D:1153:VAL:HG12	3:D:1155:VAL:HG22	1.94	0.49
5:F:99:GLU:O	5:F:103:ALA:HB2	2.11	0.49
5:F:242:TRP:O	5:F:245:GLN:HB2	2.12	0.49
1:K:44:LEU:HD23	1:K:48:ILE:HD11	1.94	0.49
2:M:91:GLN:HE21	2:M:119:PRO:HG3	1.77	0.49
2:M:417:GLY:O	2:M:418:LEU:HD13	2.12	0.49
2:M:814:GLU:HG3	2:M:814:GLU:O	2.12	0.49
3:N:9:ARG:O	3:N:9:ARG:HG2	2.12	0.49
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.95	0.49
3:N:729:HIS:CG	3:N:730:PRO:HD2	2.47	0.49
3:N:1343:ALA:O	3:N:1346:ARG:N	2.45	0.49
3:N:1423:GLY:C	3:N:1425:THR:N	2.67	0.49
1:B:15:THR:HG23	1:B:15:THR:O	2.11	0.49
2:C:19:THR:CG2	2:C:23:VAL:HG23	2.42	0.49
2:C:693:GLU:OE1	2:C:696:LYS:CD	2.60	0.49
2:C:729:LEU:HD11	5:F:419:ARG:HH21	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:65:ARG:HG3	3:D:66:GLN:N	2.27	0.49
3:D:172:PRO:HB3	3:D:178:LEU:HB3	1.95	0.49
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.38	0.49
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.93	0.49
2:M:260:LEU:HD12	2:M:260:LEU:O	2.12	0.49
2:M:449:ILE:O	2:M:449:ILE:CG2	2.61	0.49
2:M:713:ARG:NH1	3:N:531:ASP:HB3	2.27	0.49
2:M:946:ARG:HD2	2:M:984:GLU:HB2	1.93	0.49
3:N:15:PRO:O	3:N:19:ARG:HG3	2.13	0.49
3:N:181:ASP:CG	3:N:198:ARG:HB2	2.38	0.49
3:N:366:LYS:HB2	3:N:366:LYS:HZ3	1.77	0.49
3:N:558:LEU:HD13	5:P:145:PRO:C	2.38	0.49
3:N:909:ASN:HA	3:N:912:LYS:HB3	1.94	0.49
3:N:1099:VAL:O	3:N:1100:ASP:C	2.56	0.49
3:N:1336:LEU:C	3:N:1338:ALA:H	2.20	0.49
1:A:85:LEU:HD11	1:A:122:ILE:HG23	1.94	0.49
1:A:162:ILE:HG13	1:A:163:ASN:N	2.28	0.49
2:C:432:ARG:HD3	2:C:432:ARG:N	2.28	0.49
2:C:630:ARG:HH21	2:C:707:ARG:N	2.10	0.49
2:C:721:ARG:HE	2:C:783:ARG:NH2	2.10	0.49
2:C:861:LEU:O	2:C:863:ASP:N	2.45	0.49
2:C:1045:ALA:CB	3:D:758:GLU:OE2	2.61	0.49
3:D:222:GLY:HA2	3:D:366:LYS:HA	1.94	0.49
3:D:828:LYS:HD3	3:D:828:LYS:H	1.77	0.49
3:D:838:ARG:HG2	3:D:865:THR:OG1	2.12	0.49
5:F:180:GLY:O	5:F:181:GLU:C	2.55	0.49
5:F:276:ARG:HG3	5:F:276:ARG:NH1	2.26	0.49
2:M:348:LEU:H	2:M:348:LEU:HD12	1.77	0.49
2:M:952:LEU:HG	2:M:986:PRO:HG2	1.93	0.49
2:M:971:LYS:CD	2:M:986:PRO:HB2	2.42	0.49
2:M:1072:LYS:O	3:N:659:LYS:NZ	2.40	0.49
2:M:1082:PRO:HG2	3:N:1469:GLY:CA	2.39	0.49
3:N:613:ARG:HG3	3:N:613:ARG:NH1	2.28	0.49
3:N:950:GLY:O	3:N:951:ILE:C	2.55	0.49
3:N:1019:PRO:O	3:N:1023:MET:HG3	2.12	0.49
3:N:1304:LYS:C	3:N:1305:LEU:HG	2.38	0.49
3:N:1395:LEU:HD13	3:N:1399:ASP:OD2	2.13	0.49
1:A:101:LEU:HD13	1:A:113:ASP:HB3	1.95	0.49
2:C:151:ASP:CG	2:C:152:PRO:HD2	2.37	0.49
2:C:857:ASP:O	2:C:978:ARG:HG2	2.12	0.49
2:C:1092:LEU:HG	3:D:607:LEU:CD1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:218:LYS:CD	3:D:370:ALA:HB1	2.43	0.49
3:D:582:LEU:O	3:D:603:LEU:HB2	2.13	0.49
3:D:951:ILE:HD12	3:D:1062:ARG:NE	2.27	0.49
3:D:1111:ASP:O	3:D:1112:CYS:C	2.55	0.49
3:D:1357:ARG:O	3:D:1358:ALA:C	2.56	0.49
5:F:107:GLU:C	5:F:109:GLY:H	2.20	0.49
2:M:73:LEU:HD21	2:M:118:ILE:HD11	1.95	0.49
2:M:601:GLY:O	2:M:648:ARG:HA	2.11	0.49
2:M:695:LEU:CD1	2:M:852:ILE:HG21	2.43	0.49
2:M:927:GLY:O	2:M:930:LYS:HB2	2.13	0.49
2:M:1016:ILE:H	2:M:1016:ILE:CD1	1.94	0.49
2:M:1038:TRP:CD1	3:N:1223:ILE:HD11	2.48	0.49
2:M:1094:ALA:HB2	3:N:520:LEU:HD13	1.95	0.49
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.42	0.49
3:N:795:VAL:CG1	3:N:863:VAL:HG13	2.43	0.49
3:N:912:LYS:HB3	3:N:912:LYS:NZ	2.28	0.49
3:N:1078:ARG:O	3:N:1079:LYS:O	2.31	0.49
5:P:141:VAL:O	5:P:145:PRO:CD	2.50	0.49
5:P:406:ARG:O	5:P:410:TYR:HB2	2.13	0.49
2:C:26:TYR:CE1	2:C:340:MET:HG3	2.47	0.49
2:C:285:LEU:HD21	2:C:289:THR:HA	1.94	0.49
2:C:443:THR:CG2	2:C:450:GLY:H	2.07	0.49
2:C:674:VAL:HG23	2:C:869:VAL:CG1	2.42	0.49
2:C:1031:ARG:HH11	3:D:619:LEU:C	2.20	0.49
2:C:1106:ASP:CG	3:D:1456:LYS:HD3	2.38	0.49
3:D:171:LEU:CB	3:D:390:PRO:HA	2.42	0.49
3:D:205:TYR:HA	3:D:393:ILE:CD1	2.42	0.49
3:D:231:VAL:HA	3:D:378:ILE:CG1	2.43	0.49
3:D:710:ARG:C	3:D:712:GLY:H	2.21	0.49
3:D:1152:GLU:O	3:D:1153:VAL:CG2	2.61	0.49
3:D:1152:GLU:C	3:D:1153:VAL:HG23	2.38	0.49
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.95	0.49
5:F:207:LEU:O	5:F:212:LEU:HD12	2.13	0.49
1:K:203:GLY:O	1:K:205:VAL:O	2.30	0.49
1:L:223:THR:O	1:L:225:PHE:N	2.46	0.49
2:M:432:ARG:NH1	3:N:1047:LYS:HG2	2.27	0.49
2:M:917:LEU:C	2:M:919:ALA:H	2.20	0.49
3:N:136:ASP:CB	3:N:137:PRO:CD	2.86	0.49
3:N:380:GLU:O	3:N:382:GLU:OE2	2.29	0.49
3:N:400:VAL:C	3:N:402:PRO:HD3	2.38	0.49
3:N:704:ARG:HG2	3:N:745:MET:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:798:GLU:OE1	3:N:828:LYS:HE2	2.13	0.49
3:N:965:GLU:HA	3:N:968:ASP:CB	2.34	0.49
4:O:39:VAL:O	4:O:72:ARG:NE	2.46	0.49
5:P:88:ILE:O	5:P:92:PRO:CD	2.61	0.49
1:A:76:VAL:HG12	1:A:76:VAL:O	2.13	0.49
1:B:220:GLU:O	1:B:220:GLU:HG2	2.11	0.49
1:B:221:HIS:HA	1:B:224:TYR:CD2	2.48	0.49
2:C:469:THR:CG2	2:C:471:TYR:HE1	2.25	0.49
2:C:607:ASP:HB2	2:C:610:ARG:HG3	1.95	0.49
2:C:653:ASP:OD1	2:C:654:LEU:HD23	2.13	0.49
2:C:691:SER:O	2:C:692:GLU:C	2.56	0.49
2:C:796:GLU:HA	2:C:796:GLU:OE2	2.12	0.49
3:D:40:GLU:CG	3:D:41:ARG:H	2.20	0.49
3:D:79:GLU:HG2	3:D:80:VAL:N	2.25	0.49
3:D:131:LYS:O	3:D:133:ILE:HG13	2.13	0.49
3:D:153:LEU:N	3:D:153:LEU:HD23	2.28	0.49
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.94	0.49
3:D:486:ARG:HA	3:D:486:ARG:HE	1.77	0.49
3:D:932:ASP:C	3:D:934:LEU:N	2.71	0.49
3:D:1475:GLY:C	3:D:1477:GLY:N	2.61	0.49
5:F:134:LYS:HD2	5:F:160:ASP:OD2	2.13	0.49
1:K:49:PRO:HA	1:K:148:VAL:HG12	1.94	0.49
1:K:150:TYR:HD1	1:K:170:VAL:HG12	1.78	0.49
2:M:516:ARG:HH11	2:M:521:PRO:HB3	1.78	0.49
2:M:953:VAL:CA	2:M:965:GLU:OE1	2.60	0.49
2:M:1047:HIS:N	3:N:758:GLU:OE2	2.46	0.49
3:N:47:GLU:CB	3:N:78:VAL:HG22	2.42	0.49
3:N:82:LYS:O	3:N:84:ILE:N	2.45	0.49
3:N:193:PRO:HB3	3:N:206:ARG:HH11	1.78	0.49
3:N:231:VAL:HA	3:N:378:ILE:CD1	2.42	0.49
3:N:523:ASP:OD1	3:N:523:ASP:N	2.43	0.49
3:N:625:TYR:H	3:N:625:TYR:HD1	1.61	0.49
3:N:962:GLN:O	3:N:966:GLU:CG	2.60	0.49
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.15	0.49
3:N:1462:LEU:HD22	3:N:1473:PRO:HD2	1.94	0.49
5:P:354:LEU:HD23	5:P:418:LEU:CD1	2.42	0.49
1:B:94:LEU:HD23	1:B:97:VAL:HG21	1.95	0.49
2:C:12:VAL:HG13	2:C:13:ILE:N	2.27	0.49
2:C:42:VAL:HG13	2:C:268:ASP:OD2	2.13	0.49
2:C:74:GLY:O	2:C:76:PRO:HD3	2.12	0.49
2:C:292:ARG:HD2	2:C:299:LYS:HD3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:317:VAL:C	2:C:319:GLY:N	2.69	0.49
2:C:569:VAL:HG12	2:C:996:LYS:O	2.13	0.49
2:C:703:ILE:O	2:C:703:ILE:HG22	2.13	0.49
2:C:1067:TYR:CE1	2:C:1071:ILE:HD11	2.46	0.49
2:C:1087:VAL:O	2:C:1087:VAL:HG12	2.13	0.49
3:D:116:LEU:C	3:D:118:LEU:H	2.19	0.49
3:D:368:VAL:CG1	3:D:369:ALA:N	2.75	0.49
3:D:502:PHE:O	3:D:504:ASP:N	2.46	0.49
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.93	0.49
3:D:886:VAL:O	3:D:890:VAL:HG22	2.12	0.49
3:D:1081:GLY:O	3:D:1083:ASP:N	2.45	0.49
3:D:1311:LEU:H	3:D:1311:LEU:CD2	2.12	0.49
3:D:1369:GLU:O	3:D:1370:ILE:O	2.31	0.49
5:F:295:MET:HA	5:F:295:MET:HE2	1.95	0.49
1:K:173:PRO:O	1:K:174:VAL:C	2.56	0.49
1:L:206:THR:HG22	1:L:209:GLU:HB2	1.93	0.49
1:L:211:LEU:O	1:L:215:VAL:HG13	2.13	0.49
2:M:398:THR:N	2:M:633:GLN:OE1	2.46	0.49
2:M:755:LEU:HD22	2:M:825:VAL:HG11	1.95	0.49
2:M:795:GLY:O	2:M:796:GLU:CG	2.58	0.49
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.47	0.49
2:M:1051:GLU:OE1	3:N:751:LEU:N	2.46	0.49
3:N:28:LYS:CB	3:N:41:ARG:HD2	2.42	0.49
3:N:35:ARG:HB3	3:N:35:ARG:NH1	2.25	0.49
3:N:387:LEU:CG	5:P:97:GLU:HB2	2.43	0.49
3:N:550:ARG:NH1	3:N:577:ALA:HB2	2.28	0.49
3:N:591:VAL:CA	3:N:600:LEU:HD21	2.43	0.49
3:N:1087:ARG:NH1	3:N:1238:MET:HG3	2.27	0.49
1:A:221:HIS:C	1:A:223:THR:H	2.19	0.48
1:B:1:MET:HG3	1:B:6:LEU:HD13	1.94	0.48
1:B:58:ILE:HG22	1:B:59:GLU:N	2.28	0.48
2:C:222:MET:O	2:C:223:ASP:C	2.55	0.48
2:C:679:PHE:O	2:C:680:ASP:C	2.56	0.48
3:D:9:ARG:NH2	3:D:11:ALA:HB2	2.28	0.48
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.46	0.48
3:D:152:LEU:HD23	3:D:152:LEU:N	2.08	0.48
3:D:660:LYS:HD2	3:D:663:GLU:HG3	1.95	0.48
3:D:958:GLU:C	3:D:960:LYS:H	2.21	0.48
3:D:1104:GLU:OE1	3:D:1377:LYS:HE3	2.13	0.48
3:D:1376:MET:HG2	3:D:1421:LEU:HD12	1.95	0.48
2:M:1052:MET:SD	2:M:1056:LYS:HD3	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1096:ALA:O	3:N:13:ALA:HB2	2.13	0.48
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.93	0.48
3:N:1242:HIS:C	3:N:1269:LYS:HZ2	2.17	0.48
3:N:1304:LYS:O	3:N:1305:LEU:HD23	2.13	0.48
3:N:1466:VAL:HG23	3:N:1472:ILE:CD1	2.36	0.48
5:P:288:TYR:CE2	5:P:305:GLU:HG3	2.48	0.48
5:P:415:THR:O	5:P:417:LYS:HG3	2.12	0.48
1:A:88:ARG:HH12	1:A:90:LEU:HD23	1.77	0.48
1:A:203:GLY:O	1:A:204:SER:C	2.56	0.48
1:B:66:SER:O	1:B:74:ASP:OD1	2.31	0.48
2:C:540:PHE:CE1	2:C:550:LEU:HD23	2.47	0.48
2:C:874:LEU:HD13	3:D:783:ARG:HB3	1.94	0.48
2:C:987:ILE:HA	3:D:948:THR:HG21	1.95	0.48
3:D:179:VAL:HG11	3:D:217:LYS:CE	2.43	0.48
3:D:527:MET:HE2	3:D:535:PHE:CD2	2.48	0.48
3:D:563:PRO:HG3	5:F:188:ILE:HG22	1.94	0.48
3:D:907:GLU:HG2	3:D:908:LYS:N	2.26	0.48
3:D:951:ILE:HD12	3:D:1062:ARG:NH2	2.28	0.48
3:D:1313:VAL:C	3:D:1314:LYS:HD3	2.38	0.48
3:D:1478:SER:OG	3:D:1480:PHE:HB3	2.12	0.48
1:K:106:PRO:HG2	1:K:134:GLU:CD	2.37	0.48
1:K:189:ARG:HH11	1:L:155:LYS:NZ	2.05	0.48
2:M:165:LEU:HA	2:M:166:PRO:O	2.13	0.48
2:M:256:TYR:OH	2:M:293:PHE:HB2	2.13	0.48
2:M:347:GLY:O	2:M:350:ARG:HD2	2.14	0.48
2:M:939:ARG:HB3	2:M:982:PRO:HG3	1.94	0.48
2:M:968:LEU:C	2:M:970:GLY:H	2.20	0.48
2:M:1018:GLN:HG3	2:M:1060:ILE:CG1	2.43	0.48
3:N:3:LYS:HD3	3:N:3:LYS:N	2.28	0.48
3:N:223:LEU:HA	3:N:365:ASP:HB3	1.94	0.48
3:N:477:LEU:O	3:N:481:MET:HB2	2.12	0.48
3:N:520:LEU:HD12	3:N:521:PRO:CD	2.44	0.48
3:N:939:PHE:O	3:N:942:SER:HB3	2.13	0.48
3:N:1058:ARG:HH11	3:N:1058:ARG:HG3	1.77	0.48
3:N:1493:LYS:O	3:N:1496:GLU:HB3	2.13	0.48
4:O:41:GLU:HB3	4:O:42:PRO:HD3	1.94	0.48
1:A:43:ILE:HD11	1:B:35:THR:HG21	1.95	0.48
2:C:408:ARG:HH11	2:C:542:VAL:HG23	1.78	0.48
2:C:710:ILE:HD13	2:C:790:LEU:HB2	1.94	0.48
2:C:1059:ASP:HB3	2:C:1062:GLY:HA3	1.95	0.48
3:D:475:LYS:O	3:D:478:LEU:HB2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:568:ARG:HA	3:D:571:LYS:HZ3	1.73	0.48
3:D:588:GLY:O	3:D:590:PRO:HD3	2.12	0.48
3:D:1225:ALA:C	3:D:1228:SER:OG	2.56	0.48
3:D:1273:VAL:HG21	3:D:1305:LEU:HD21	1.95	0.48
5:F:93:LEU:CD1	5:F:102:LEU:HD12	2.44	0.48
5:F:107:GLU:C	5:F:109:GLY:N	2.70	0.48
5:F:169:GLU:O	5:F:172:ARG:HB3	2.13	0.48
5:F:174:LEU:HD22	5:F:178:ARG:HG2	1.94	0.48
1:K:33:GLY:N	1:K:193:ASP:OD2	2.44	0.48
1:L:114:PHE:O	1:L:115:LEU:C	2.56	0.48
2:M:762:LYS:NZ	2:M:784:ASP:O	2.47	0.48
3:N:481:MET:HG3	3:N:493:ARG:HB2	1.96	0.48
3:N:1115:THR:CB	3:N:1151:ARG:NH2	2.71	0.48
1:A:14:ARG:HH12	1:A:24:VAL:HG23	1.78	0.48
2:C:584:GLU:O	2:C:588:VAL:HG13	2.13	0.48
2:C:729:LEU:CD1	5:F:419:ARG:HH21	2.26	0.48
2:C:1004:LYS:HE3	2:C:1027:PHE:CE1	2.48	0.48
3:D:34:TYR:O	3:D:36:THR:N	2.46	0.48
3:D:444:VAL:O	3:D:444:VAL:HG13	2.13	0.48
3:D:486:ARG:HE	3:D:489:ARG:HD3	1.78	0.48
3:D:569:ASN:C	3:D:569:ASN:HD22	2.19	0.48
3:D:601:ARG:HH22	3:D:611:GLN:H	1.59	0.48
3:D:783:ARG:NE	3:D:1029:ARG:NE	2.59	0.48
3:D:951:ILE:HD12	3:D:1062:ARG:HH21	1.78	0.48
3:D:1026:SER:O	3:D:1027:GLY:C	2.56	0.48
5:F:396:ARG:HA	5:F:399:GLN:HB2	1.95	0.48
1:K:124:ASN:N	1:K:125:PRO:HD3	2.28	0.48
1:L:23:PHE:CZ	1:L:208:LEU:HA	2.48	0.48
2:M:49:ARG:HG2	2:M:68:PHE:CE2	2.47	0.48
2:M:64:LEU:C	2:M:65:VAL:HG22	2.38	0.48
2:M:123:GLU:OE2	2:M:592:LEU:CD1	2.62	0.48
2:M:328:LEU:H	2:M:433:THR:CG2	2.22	0.48
2:M:728:HIS:O	2:M:729:LEU:HD22	2.14	0.48
2:M:910:LYS:H	2:M:913:GLU:CB	2.26	0.48
3:N:411:THR:HG22	3:N:412:GLY:N	2.28	0.48
3:N:433:GLY:HA3	3:N:449:SER:O	2.13	0.48
3:N:496:LEU:HD21	3:N:500:ARG:NE	2.27	0.48
3:N:1155:VAL:HG21	3:N:1174:LEU:CD2	2.43	0.48
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.13	0.48
3:N:1274:ILE:HD11	3:N:1334:GLN:NE2	2.29	0.48
5:P:138:SER:HB2	5:P:140:ARG:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:206:THR:O	1:B:209:GLU:HB2	2.13	0.48
2:C:113:VAL:O	2:C:115:LEU:HD23	2.13	0.48
2:C:438:ILE:CD1	2:C:453:THR:HG21	2.33	0.48
2:C:535:SER:O	2:C:537:LYS:N	2.46	0.48
2:C:680:ASP:OD1	3:D:636:GLN:NE2	2.47	0.48
2:C:1034:GLU:OE1	3:D:1096:ARG:CD	2.62	0.48
2:C:1115:LEU:HD23	3:D:85:VAL:HA	1.95	0.48
3:D:553:ARG:NH1	5:F:214:GLN:HB2	2.28	0.48
3:D:569:ASN:ND2	3:D:569:ASN:C	2.71	0.48
3:D:646:LYS:HA	3:D:720:LEU:CD2	2.44	0.48
3:D:782:SER:O	3:D:786:ILE:HD12	2.13	0.48
3:D:890:VAL:HG11	3:D:922:LEU:CD1	2.43	0.48
3:D:1258:ARG:C	3:D:1260:ILE:H	2.21	0.48
3:D:1292:VAL:HG11	3:D:1325:LEU:CD2	2.39	0.48
4:E:54:LEU:CD2	4:E:63:TRP:HE1	2.26	0.48
1:K:33:GLY:O	1:K:195:LEU:HD13	2.14	0.48
1:K:106:PRO:HA	1:K:132:LEU:O	2.14	0.48
2:M:115:LEU:HA	2:M:375:SER:OG	2.13	0.48
2:M:313:LEU:C	2:M:315:ALA:H	2.20	0.48
2:M:684:PHE:HB2	3:N:633:VAL:HG21	1.94	0.48
2:M:724:ARG:HG2	2:M:734:LEU:HD12	1.95	0.48
2:M:946:ARG:HH11	2:M:984:GLU:HB2	1.77	0.48
2:M:1059:ASP:CG	2:M:1062:GLY:H	2.20	0.48
3:N:127:LEU:HD12	3:N:127:LEU:C	2.38	0.48
3:N:455:ARG:HE	3:N:463:GLN:HE22	1.57	0.48
3:N:473:LEU:CD1	3:N:476:GLU:OE1	2.61	0.48
3:N:728:LEU:HD22	3:N:745:MET:HE1	1.96	0.48
3:N:960:LYS:C	3:N:962:GLN:H	2.21	0.48
3:N:1189:ARG:HB3	3:N:1189:ARG:HH11	1.79	0.48
3:N:1253:THR:HG23	3:N:1258:ARG:HD2	1.95	0.48
3:N:1277:ILE:CG2	3:N:1278:ASP:H	2.26	0.48
3:N:1305:LEU:HB3	3:N:1309:ALA:CB	2.44	0.48
3:N:1372:VAL:HA	3:N:1375:MET:HG3	1.94	0.48
5:P:94:LEU:O	5:P:95:THR:C	2.57	0.48
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.96	0.48
1:A:213:GLN:O	1:A:217:ILE:HG13	2.13	0.48
2:C:165:LEU:HA	2:C:166:PRO:C	2.39	0.48
2:C:327:HIS:HA	2:C:431:HIS:CD2	2.49	0.48
3:D:172:PRO:HG3	3:D:178:LEU:HD22	1.96	0.48
3:D:578:VAL:O	3:D:582:LEU:HG	2.13	0.48
3:D:661:MET:HE1	3:D:677:LEU:HG	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1078:ARG:O	3:D:1079:LYS:C	2.54	0.48
3:D:1137:ARG:H	3:D:1137:ARG:HD2	1.78	0.48
3:D:1465:ASN:HD21	3:D:1470:ARG:HH12	1.59	0.48
4:E:46:PRO:HB3	4:E:54:LEU:HD22	1.95	0.48
5:F:235:PHE:O	5:F:236:SER:C	2.57	0.48
1:L:27:PRO:O	1:L:28:LEU:HG	2.14	0.48
1:L:170:VAL:HG23	1:L:170:VAL:O	2.13	0.48
1:L:218:LEU:O	1:L:219:ARG:C	2.57	0.48
2:M:122:THR:HG22	2:M:123:GLU:N	2.28	0.48
2:M:143:SER:O	2:M:147:TYR:OH	2.31	0.48
2:M:146:VAL:HG12	2:M:162:ILE:HG12	1.94	0.48
2:M:551:GLU:O	2:M:553:ASP:N	2.46	0.48
2:M:580:MET:N	2:M:901:TYR:O	2.47	0.48
2:M:854:PRO:O	2:M:857:ASP:OD2	2.31	0.48
2:M:910:LYS:HD2	2:M:910:LYS:N	2.28	0.48
2:M:988:VAL:C	2:M:989:VAL:HG13	2.38	0.48
3:N:86:ARG:NH1	3:N:522:PRO:CB	2.77	0.48
3:N:169:TYR:CG	3:N:169:TYR:O	2.66	0.48
3:N:736:PHE:O	3:N:738:ALA:N	2.47	0.48
3:N:890:VAL:O	3:N:892:ASP:N	2.47	0.48
3:N:915:VAL:O	3:N:916:TYR:C	2.55	0.48
3:N:1227:GLN:C	3:N:1229:ILE:H	2.15	0.48
3:N:1271:LYS:CE	3:N:1334:GLN:NE2	2.76	0.48
5:P:76:SER:O	5:P:77:THR:C	2.57	0.48
5:P:120:THR:CG2	5:P:122:LEU:HD13	2.35	0.48
1:A:73:GLU:HB2	1:A:78:ILE:HG13	1.95	0.48
2:C:455:LEU:C	2:C:455:LEU:HD12	2.38	0.48
2:C:572:ILE:HG23	2:C:701:THR:O	2.14	0.48
2:C:768:THR:HG22	2:C:769:PRO:HD2	1.96	0.48
2:C:850:ALA:CB	3:D:633:VAL:HG12	2.43	0.48
2:C:877:PRO:HG3	3:D:1023:MET:HE3	1.92	0.48
2:C:1016:ILE:HG12	2:C:1017:THR:H	1.79	0.48
2:C:1020:PRO:CD	2:C:1057:SER:HA	2.43	0.48
3:D:36:THR:CG2	3:D:38:LYS:HG3	2.43	0.48
3:D:553:ARG:HD2	3:D:570:GLU:OE1	2.14	0.48
3:D:972:LEU:HD23	3:D:972:LEU:C	2.38	0.48
3:D:1114:THR:CG2	3:D:1195:GLN:HB2	2.42	0.48
3:D:1156:LEU:HD11	3:D:1177:ALA:CA	2.43	0.48
3:D:1442:ASN:HD22	3:D:1446:VAL:HG21	1.78	0.48
2:M:554:ASP:CB	2:M:880:MET:HB2	2.39	0.48
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:736:ASP:O	2:M:743:VAL:HG23	2.14	0.48
2:M:882:LEU:O	2:M:883:GLY:C	2.57	0.48
3:N:37:LEU:HD11	3:N:529:GLN:HG3	1.95	0.48
3:N:195:VAL:CG2	3:N:205:TYR:HB2	2.43	0.48
3:N:374:GLU:HG2	3:N:386:HIS:CA	2.37	0.48
3:N:528:VAL:HG12	3:N:529:GLN:N	2.27	0.48
3:N:930:LEU:HD11	3:N:934:LEU:HD11	1.96	0.48
3:N:1413:THR:O	3:N:1414:PRO:C	2.56	0.48
5:P:326:ASP:OD1	5:P:326:ASP:N	2.46	0.48
5:P:347:GLN:O	5:P:348:SER:C	2.56	0.48
1:A:80:LEU:HD21	2:C:698:ASP:HB2	1.96	0.48
1:A:91:ASN:OD1	1:A:92:PRO:HD2	2.14	0.48
1:B:91:ASN:HB2	1:B:92:PRO:HD2	1.94	0.48
1:B:219:ARG:C	1:B:221:HIS:N	2.72	0.48
2:C:30:LEU:O	2:C:32:ALA:N	2.47	0.48
2:C:197:LEU:CD1	2:C:207:LEU:HD11	2.44	0.48
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.49	0.48
2:C:355:VAL:HG13	2:C:356:ARG:N	2.28	0.48
2:C:516:ARG:CD	2:C:521:PRO:HA	2.43	0.48
2:C:843:HIS:NE2	2:C:887:GLU:OE2	2.47	0.48
2:C:1085:PHE:O	2:C:1088:LEU:CB	2.62	0.48
3:D:102:ILE:HD12	3:D:579:ASP:CB	2.40	0.48
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.48	0.48
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.96	0.48
3:D:1398:TRP:CH2	3:D:1415:VAL:HG11	2.49	0.48
1:L:207:PRO:O	1:L:208:LEU:C	2.56	0.48
2:M:146:VAL:HG12	2:M:162:ILE:HA	1.95	0.48
2:M:580:MET:CE	2:M:902:ILE:HD11	2.42	0.48
2:M:737:LEU:O	2:M:738:ASP:C	2.56	0.48
2:M:757:GLY:HA2	2:M:789:SER:OG	2.14	0.48
2:M:1052:MET:SD	3:N:623:VAL:HG11	2.54	0.48
2:M:1063:ARG:HG3	2:M:1064:ASN:H	1.79	0.48
3:N:191:LEU:CD1	3:N:211:VAL:HG21	2.43	0.48
3:N:860:LEU:HD23	3:N:877:PRO:HB2	1.96	0.48
3:N:919:PHE:HZ	3:N:1211:MET:HB3	1.79	0.48
3:N:1450:ALA:O	3:N:1454:GLY:N	2.45	0.48
5:P:238:TYR:O	5:P:239:ALA:C	2.56	0.48
5:P:406:ARG:HG2	5:P:409:LYS:HE2	1.96	0.48
1:A:24:VAL:HG12	1:A:25:LEU:N	2.29	0.48
1:A:185:ARG:O	1:A:185:ARG:NE	2.47	0.48
1:B:211:LEU:O	1:B:214:ALA:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:197:LEU:HD12	2:C:207:LEU:HD11	1.95	0.48
2:C:572:ILE:HG13	2:C:573:ARG:N	2.27	0.48
2:C:650:ARG:O	2:C:651:LYS:C	2.56	0.48
2:C:690:ILE:HD11	2:C:839:LEU:HD11	1.95	0.48
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.96	0.48
3:D:625:TYR:O	3:D:749:VAL:HG23	2.13	0.48
3:D:812:ALA:O	3:D:816:HIS:HB2	2.14	0.48
3:D:1331:ASP:HB3	3:D:1334:GLN:CG	2.44	0.48
3:D:1336:LEU:HD22	3:D:1421:LEU:CB	2.44	0.48
1:L:103:ALA:HB2	1:L:107:LYS:HZ1	1.79	0.48
1:L:213:GLN:O	1:L:214:ALA:C	2.57	0.48
2:M:27:ARG:O	2:M:28:ARG:C	2.56	0.48
2:M:69:LEU:HD12	2:M:97:ARG:HB3	1.95	0.48
2:M:176:VAL:HG12	2:M:182:VAL:CG1	2.36	0.48
2:M:244:PRO:HD2	2:M:245:GLY:N	2.28	0.48
2:M:404:LEU:HB2	2:M:591:SER:HB2	1.96	0.48
2:M:630:ARG:NH2	2:M:707:ARG:H	2.03	0.48
2:M:838:LYS:HD3	2:M:846:LYS:CE	2.43	0.48
2:M:1095:LEU:CD2	3:N:603:LEU:HD13	2.44	0.48
3:N:167:GLU:CD	5:P:90:GLN:NE2	2.72	0.48
3:N:481:MET:HE1	3:N:1388:ARG:HE	1.72	0.48
3:N:637:LEU:HD23	3:N:729:HIS:CA	2.44	0.48
3:N:779:ALA:HB1	3:N:931:LEU:HD13	1.95	0.48
3:N:916:TYR:CZ	3:N:920:LEU:HD22	2.48	0.48
3:N:1047:LYS:HA	3:N:1053:PHE:HE1	1.75	0.48
3:N:1050:GLY:O	3:N:1051:GLU:C	2.57	0.48
3:N:1094:LEU:HD23	3:N:1230:GLY:HA2	1.95	0.48
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.95	0.48
3:N:1476:THR:HG22	3:N:1476:THR:O	2.13	0.48
5:P:130:VAL:HG21	5:P:159:ILE:CD1	2.44	0.48
2:C:141:HIS:HB2	2:C:418:LEU:HD12	1.96	0.48
2:C:158:TYR:CD1	2:C:313:LEU:HG	2.48	0.48
2:C:371:LYS:C	2:C:372:LEU:HD12	2.39	0.48
2:C:433:THR:C	2:C:435:TYR:H	2.20	0.48
2:C:439:CYS:SG	2:C:442:GLU:N	2.76	0.48
2:C:490:GLU:HG3	2:C:493:ARG:HH11	1.78	0.48
2:C:572:ILE:HD11	2:C:698:ASP:HB3	1.95	0.48
3:D:36:THR:C	3:D:38:LYS:N	2.72	0.48
3:D:104:PHE:HD1	3:D:512:MET:SD	2.37	0.48
3:D:216:VAL:C	3:D:217:LYS:HD3	2.38	0.48
3:D:234:GLU:CD	3:D:234:GLU:N	2.65	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:575:GLN:O	3:D:576:GLU:C	2.56	0.48
3:D:736:PHE:CE2	3:D:745:MET:HE3	2.48	0.48
3:D:829:VAL:HG12	3:D:830:ALA:N	2.29	0.48
3:D:1087:ARG:NH2	3:D:1237:THR:HA	2.28	0.48
3:D:1162:GLU:HG2	3:D:1163:GLY:N	2.29	0.48
3:D:1303:TYR:HA	3:D:1304:LYS:HE2	1.95	0.48
5:F:194:LEU:O	5:F:197:SER:OG	2.28	0.48
5:F:196:VAL:HA	5:F:199:ALA:HB3	1.96	0.48
1:K:189:ARG:NH1	1:L:155:LYS:HE2	2.29	0.48
1:L:100:LEU:O	1:L:114:PHE:HA	2.14	0.48
2:M:10:ARG:O	2:M:12:VAL:N	2.47	0.48
2:M:162:ILE:CD1	2:M:306:THR:HG21	2.39	0.48
2:M:640:ARG:HB2	2:M:642:ARG:NH1	2.28	0.48
2:M:737:LEU:HD11	2:M:754:ILE:CG2	2.44	0.48
2:M:751:PRO:CG	2:M:796:GLU:HA	2.44	0.48
3:N:149:LYS:H	3:N:149:LYS:CD	2.20	0.48
3:N:593:ASN:O	3:N:595:GLY:N	2.47	0.48
3:N:699:VAL:N	3:N:756:GLN:HE21	2.09	0.48
3:N:1017:PHE:HA	3:N:1022:VAL:CG2	2.44	0.48
5:P:88:ILE:HD13	5:P:193:ARG:CD	2.40	0.48
5:P:138:SER:HB2	5:P:140:ARG:NE	2.29	0.48
1:A:13:VAL:CG1	1:A:14:ARG:N	2.76	0.47
1:A:151:VAL:HG13	1:A:155:LYS:HD3	1.95	0.47
2:C:212:GLY:C	2:C:215:GLY:H	2.20	0.47
2:C:1074:GLU:HG2	2:C:1075:ASP:H	1.78	0.47
3:D:218:LYS:HD2	3:D:372:ASP:O	2.14	0.47
3:D:729:HIS:O	3:D:732:VAL:HG22	2.14	0.47
3:D:1072:ILE:HG22	3:D:1073:SER:N	2.28	0.47
3:D:1346:ARG:HH12	3:D:1349:VAL:HG21	1.79	0.47
3:D:1353:GLN:HB3	3:D:1357:ARG:NH1	2.29	0.47
2:M:64:LEU:HD13	2:M:359:MET:SD	2.54	0.47
2:M:205:GLU:HA	2:M:209:ARG:HE	1.79	0.47
2:M:242:LEU:N	2:M:242:LEU:CD2	2.77	0.47
2:M:252:LYS:HZ3	2:M:296:GLY:HA3	1.76	0.47
2:M:497:ALA:HB2	2:M:529:VAL:HG13	1.96	0.47
2:M:557:ARG:HD3	2:M:879:ARG:CG	2.44	0.47
2:M:578:VAL:O	2:M:900:ARG:HA	2.14	0.47
2:M:881:ASN:HD22	2:M:881:ASN:C	2.20	0.47
2:M:949:LYS:NZ	3:N:796:ARG:NH2	2.59	0.47
2:M:1109:VAL:HG22	3:N:3:LYS:CB	2.40	0.47
3:N:423:ASP:OD1	5:P:175:HIS:ND1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:426:LYS:HA	3:N:434:ARG:HD3	1.95	0.47
3:N:691:LEU:HD23	3:N:720:LEU:HD11	1.95	0.47
3:N:786:ILE:CG2	3:N:1028:ALA:H	2.27	0.47
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.95	0.47
3:N:1306:PRO:O	3:N:1307:LYS:C	2.57	0.47
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.96	0.47
1:A:34:VAL:C	1:A:36:LEU:H	2.22	0.47
1:A:121:GLU:HG2	1:A:123:MET:SD	2.53	0.47
1:B:10:VAL:HG12	1:B:12:THR:HG22	1.96	0.47
1:B:55:SER:O	1:B:142:VAL:HA	2.15	0.47
2:C:11:GLU:HG2	2:C:537:LYS:NZ	2.29	0.47
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.96	0.47
2:C:250:ARG:NE	2:C:253:ALA:HB1	2.29	0.47
2:C:334:ARG:HE	2:C:338:GLU:CD	2.22	0.47
3:D:93:ILE:HD12	3:D:547:LEU:HD23	1.96	0.47
3:D:169:TYR:CG	3:D:169:TYR:O	2.67	0.47
3:D:549:ASN:CG	5:F:254:GLN:HE21	2.22	0.47
3:D:583:ASP:HA	3:D:602:SER:HB2	1.96	0.47
3:D:659:LYS:O	3:D:662:GLU:HB3	2.13	0.47
3:D:1108:ARG:O	3:D:1109:GLU:HB3	2.14	0.47
3:D:1192:LEU:CD2	3:D:1345:GLU:HB3	2.42	0.47
3:D:1207:TYR:N	3:D:1366:LYS:NZ	2.57	0.47
3:D:1207:TYR:CZ	3:D:1212:ALA:O	2.67	0.47
3:D:1254:GLN:OE1	3:D:1355:VAL:HG22	2.14	0.47
3:D:1403:LEU:HD22	3:D:1407:LEU:CD2	2.44	0.47
1:K:146:ARG:HE	1:K:147:GLY:N	2.12	0.47
1:K:184:THR:O	1:K:184:THR:HG23	2.14	0.47
2:M:52:PHE:CZ	2:M:98:LEU:HD21	2.49	0.47
2:M:496:ILE:O	2:M:515:ALA:HB1	2.13	0.47
2:M:877:PRO:HG2	3:N:1023:MET:CE	2.44	0.47
2:M:999:HIS:CD2	2:M:1003:ASP:CG	2.93	0.47
2:M:1063:ARG:CG	2:M:1064:ASN:N	2.77	0.47
3:N:129:PHE:CE2	3:N:575:GLN:HG3	2.48	0.47
3:N:478:LEU:HD23	3:N:1388:ARG:NH1	2.27	0.47
3:N:666:ILE:HG23	3:N:686:GLU:OE2	2.15	0.47
3:N:757:ALA:CB	4:O:24:ALA:HB2	2.44	0.47
3:N:984:THR:HG23	3:N:987:GLU:N	2.23	0.47
3:N:1149:LEU:HD11	3:N:1160:LEU:HB3	1.96	0.47
3:N:1353:GLN:OE1	3:N:1353:GLN:HA	2.14	0.47
5:P:260:ILE:CD1	5:P:264:MET:HB3	2.44	0.47
1:A:7:LYS:HZ3	1:A:188:GLN:NE2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:PRO:O	1:A:94:LEU:N	2.48	0.47
1:B:50:GLY:O	1:B:146:ARG:HA	2.15	0.47
2:C:95:TYR:HB3	2:C:114:PHE:N	2.28	0.47
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.97	0.47
2:C:544:THR:C	2:C:546:LEU:H	2.22	0.47
2:C:734:LEU:O	2:C:735:ARG:C	2.58	0.47
2:C:785:VAL:HG22	2:C:786:LYS:N	2.27	0.47
2:C:803:THR:HG22	2:C:825:VAL:HG13	1.95	0.47
2:C:1095:LEU:HD23	3:D:582:LEU:HB3	1.96	0.47
3:D:118:LEU:O	3:D:119:SER:C	2.57	0.47
3:D:124:GLU:HB3	3:D:128:TYR:CE1	2.49	0.47
3:D:423:ASP:OD2	5:F:174:LEU:HD22	2.13	0.47
3:D:423:ASP:CG	5:F:175:HIS:ND1	2.73	0.47
3:D:679:ARG:NH2	3:D:681:ARG:CD	2.76	0.47
3:D:916:TYR:HE2	3:D:920:LEU:CD2	2.19	0.47
3:D:994:GLN:NE2	3:D:998:GLU:OE2	2.47	0.47
3:D:1109:GLU:OE1	3:D:1110:ALA:O	2.31	0.47
5:F:392:VAL:HG11	5:F:396:ARG:CD	2.43	0.47
1:K:86:VAL:HG12	1:K:124:ASN:HB2	1.96	0.47
1:K:168:ASP:OD2	2:M:832:LYS:NZ	2.46	0.47
1:L:25:LEU:HD22	1:L:28:LEU:HD11	1.96	0.47
2:M:102:HIS:HB2	2:M:105:THR:O	2.15	0.47
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.95	0.47
2:M:442:GLU:HG2	2:M:454:SER:CB	2.45	0.47
2:M:567:GLN:O	2:M:997:LEU:HD23	2.15	0.47
2:M:1054:THR:HB	2:M:1055:LEU:HD23	1.96	0.47
3:N:115:LEU:CD1	3:N:499:VAL:HG22	2.43	0.47
3:N:207:PHE:HB3	3:N:395:VAL:HG21	1.97	0.47
3:N:702:LEU:CD1	3:N:747:VAL:HB	2.45	0.47
3:N:895:VAL:O	3:N:898:GLU:HB2	2.14	0.47
3:N:1107:VAL:HG22	3:N:1200:VAL:O	2.14	0.47
3:N:1155:VAL:CG2	3:N:1183:ILE:HD11	2.43	0.47
2:C:99:GLN:HE21	2:C:101:ILE:HD11	1.78	0.47
2:C:391:LEU:HG	2:C:391:LEU:O	2.14	0.47
2:C:613:VAL:HG11	2:C:655:LEU:CD1	2.44	0.47
2:C:1036:GLU:HG3	3:D:707:THR:OG1	2.15	0.47
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.95	0.47
3:D:104:PHE:CE1	3:D:1452:ILE:HD11	2.50	0.47
3:D:601:ARG:HH12	3:D:611:GLN:HB3	1.79	0.47
3:D:1103:HIS:C	3:D:1105:ILE:H	2.21	0.47
2:M:100:LEU:HD12	2:M:100:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:427:VAL:C	2:M:429:ASP:N	2.72	0.47
2:M:881:ASN:HD21	2:M:884:GLN:NE2	2.13	0.47
3:N:521:PRO:C	3:N:525:ARG:NH1	2.71	0.47
3:N:661:MET:CE	3:N:673:ALA:HB1	2.43	0.47
3:N:779:ALA:CB	3:N:931:LEU:HD13	2.45	0.47
3:N:901:GLN:HB3	3:N:903:ASP:OD1	2.15	0.47
3:N:1106:VAL:CG1	3:N:1107:VAL:N	2.77	0.47
3:N:1495:ILE:HG12	4:O:80:VAL:HG13	1.96	0.47
1:A:221:HIS:C	1:A:223:THR:N	2.72	0.47
1:B:14:ARG:NH2	1:B:22:GLU:OE2	2.46	0.47
2:C:208:ALA:HA	2:C:218:VAL:CG2	2.44	0.47
2:C:580:MET:HB3	2:C:584:GLU:CD	2.40	0.47
2:C:874:LEU:O	3:D:1029:ARG:CD	2.59	0.47
2:C:1005:MET:HE3	3:D:629:SER:CB	2.44	0.47
3:D:619:LEU:O	3:D:619:LEU:CG	2.60	0.47
3:D:1320:GLU:O	3:D:1323:GLN:HB2	2.14	0.47
5:F:113:ILE:HG23	5:F:127:ILE:HB	1.97	0.47
1:K:206:THR:CB	1:K:209:GLU:HB2	2.44	0.47
2:M:83:CYS:SG	2:M:89:THR:C	2.97	0.47
2:M:673:LEU:CD1	2:M:895:TYR:CE2	2.98	0.47
2:M:949:LYS:CD	3:N:796:ARG:HH21	2.28	0.47
2:M:1044:GLY:HA3	4:O:17:TYR:CD1	2.50	0.47
3:N:2:LYS:C	3:N:3:LYS:HD3	2.39	0.47
3:N:911:LEU:O	3:N:913:ASP:N	2.47	0.47
3:N:1104:GLU:HG3	3:N:1105:ILE:HD13	1.96	0.47
3:N:1197:ARG:HB2	3:N:1396:GLU:HG3	1.97	0.47
3:N:1311:LEU:H	3:N:1311:LEU:CD2	2.18	0.47
3:N:1373:ARG:O	3:N:1373:ARG:HG2	2.13	0.47
5:P:100:VAL:O	5:P:101:GLU:C	2.58	0.47
5:P:107:GLU:O	5:P:111:GLU:HG3	2.15	0.47
5:P:123:ASP:HB2	5:P:126:LEU:HB2	1.97	0.47
1:A:67:THR:HG21	2:C:609:ASN:OD1	2.13	0.47
2:C:54:ILE:HG13	2:C:56:GLU:HG2	1.96	0.47
2:C:328:LEU:HD12	2:C:328:LEU:N	2.29	0.47
2:C:347:GLY:HA2	2:C:350:ARG:CD	2.45	0.47
2:C:561:GLY:C	2:C:563:ASN:H	2.22	0.47
2:C:983:ILE:O	2:C:984:GLU:C	2.58	0.47
2:C:1005:MET:HE3	3:D:629:SER:HB2	1.96	0.47
3:D:224:ARG:HD3	3:D:224:ARG:N	2.22	0.47
3:D:868:TYR:CD2	3:D:880:ILE:HD11	2.49	0.47
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1150:ALA:C	3:D:1151:ARG:HG2	2.40	0.47
3:D:1381:VAL:HG12	3:D:1389:LEU:HA	1.96	0.47
4:E:54:LEU:HG	4:E:58:PRO:CB	2.43	0.47
4:E:68:LEU:HD11	4:E:75:PHE:CE2	2.46	0.47
1:K:57:TYR:HB3	1:K:141:GLU:HB3	1.96	0.47
2:M:304:LEU:HD23	2:M:305:PRO:N	2.30	0.47
2:M:432:ARG:CZ	3:N:1048:PRO:CD	2.90	0.47
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	2.28	0.47
2:M:568:ALA:HB3	2:M:668:LEU:HD22	1.97	0.47
2:M:660:ALA:HB1	2:M:667:ALA:O	2.14	0.47
2:M:684:PHE:CG	2:M:685:GLU:N	2.83	0.47
2:M:918:LEU:HD23	2:M:968:LEU:O	2.15	0.47
3:N:70:GLY:O	3:N:71:LYS:HD2	2.14	0.47
3:N:374:GLU:HB3	3:N:385:VAL:O	2.15	0.47
3:N:629:SER:OG	3:N:726:ILE:HG13	2.13	0.47
3:N:824:ASN:HB3	3:N:825:ALA:H	1.47	0.47
5:P:202:TYR:O	5:P:203:THR:O	2.31	0.47
1:B:132:LEU:HD11	1:B:138:LEU:HD13	1.96	0.47
2:C:11:GLU:HG2	2:C:537:LYS:HZ2	1.80	0.47
2:C:56:GLU:OE2	2:C:356:ARG:NE	2.48	0.47
2:C:127:PHE:O	2:C:133:ASP:HA	2.14	0.47
2:C:174:LEU:HD23	2:C:184:MET:HG3	1.95	0.47
2:C:225:SER:O	2:C:229:MET:HE3	2.15	0.47
2:C:266:ARG:O	2:C:288:ARG:HD2	2.15	0.47
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.45	0.47
2:C:583:LEU:C	2:C:585:GLU:N	2.73	0.47
2:C:762:LYS:NZ	2:C:762:LYS:CB	2.77	0.47
2:C:766:GLU:CD	2:C:766:GLU:N	2.73	0.47
2:C:860:HIS:HA	2:C:866:PRO:HA	1.97	0.47
2:C:918:LEU:HB3	2:C:968:LEU:HD23	1.95	0.47
2:C:1005:MET:CE	3:D:645:PRO:HG2	2.33	0.47
3:D:119:SER:HB2	3:D:123:LEU:CA	2.44	0.47
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.96	0.47
3:D:187:LYS:HE2	3:D:213:VAL:CG1	2.44	0.47
3:D:375:GLU:O	3:D:385:VAL:HG12	2.14	0.47
3:D:493:ARG:O	3:D:497:GLU:HG3	2.15	0.47
3:D:546:ARG:HH21	3:D:550:ARG:HH12	1.63	0.47
3:D:628:ARG:O	3:D:629:SER:CB	2.62	0.47
3:D:649:ALA:CB	3:D:691:LEU:HD21	2.44	0.47
3:D:653:PHE:CD2	3:D:695:ILE:HD11	2.50	0.47
3:D:688:TRP:HA	3:D:688:TRP:HE3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:729:HIS:CE1	3:D:731:LEU:CB	2.98	0.47
3:D:792:ILE:HG23	3:D:793:THR:N	2.30	0.47
3:D:820:GLU:CB	3:D:836:VAL:HG21	2.40	0.47
3:D:899:LEU:HD13	3:D:899:LEU:N	2.30	0.47
3:D:911:LEU:HD12	3:D:911:LEU:N	2.30	0.47
3:D:994:GLN:NE2	3:D:998:GLU:CD	2.70	0.47
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.24	0.47
3:D:1376:MET:C	3:D:1378:TYR:N	2.68	0.47
3:D:1397:LYS:NZ	3:D:1432:LYS:HB3	2.30	0.47
3:D:1424:VAL:CG1	3:D:1425:THR:H	2.28	0.47
5:F:110:MET:O	5:F:111:GLU:C	2.57	0.47
5:F:402:ASN:O	5:F:406:ARG:HB2	2.14	0.47
1:K:63:HIS:HD2	1:K:65:PHE:N	2.13	0.47
1:K:146:ARG:HE	1:K:146:ARG:C	2.23	0.47
2:M:18:LEU:HB2	2:M:590:ASP:OD2	2.15	0.47
2:M:42:VAL:HG12	2:M:43:GLY:N	2.26	0.47
2:M:72:ARG:HG3	2:M:72:ARG:O	2.14	0.47
2:M:249:LYS:HE3	2:M:249:LYS:HB2	1.69	0.47
2:M:405:ARG:NH2	2:M:409:ARG:NH2	2.52	0.47
2:M:663:ASN:C	2:M:665:PHE:N	2.73	0.47
2:M:682:TYR:CD1	2:M:851:LYS:HD2	2.50	0.47
2:M:697:ARG:C	2:M:699:PHE:N	2.65	0.47
2:M:737:LEU:HD22	2:M:741:GLY:O	2.15	0.47
2:M:1071:ILE:HD12	3:N:670:VAL:CG1	2.43	0.47
3:N:119:SER:HB2	3:N:123:LEU:N	2.29	0.47
3:N:499:VAL:O	3:N:503:LEU:HB2	2.15	0.47
3:N:575:GLN:O	3:N:576:GLU:C	2.58	0.47
3:N:626:SER:C	3:N:652:LEU:HD11	2.39	0.47
3:N:646:LYS:HD3	3:N:722:GLU:HA	1.97	0.47
3:N:693:GLU:HA	4:O:48:MET:HE1	1.96	0.47
3:N:809:PRO:HB2	3:N:812:ALA:CB	2.44	0.47
3:N:850:LEU:HD12	3:N:850:LEU:N	2.30	0.47
3:N:1109:GLU:HB2	3:N:1110:ALA:H	1.35	0.47
3:N:1147:ARG:O	3:N:1166:LEU:HD23	2.15	0.47
3:N:1147:ARG:H	3:N:1166:LEU:HD23	1.79	0.47
3:N:1273:VAL:HG23	3:N:1273:VAL:O	2.14	0.47
3:N:1463:LYS:O	3:N:1467:ILE:HG13	2.15	0.47
5:P:170:HIS:HA	5:P:173:TYR:HD1	1.80	0.47
1:A:214:ALA:C	1:A:216:GLU:H	2.22	0.47
2:C:52:PHE:O	2:C:54:ILE:N	2.48	0.47
2:C:76:PRO:HA	2:C:77:PRO:HD3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:129:ILE:HD13	2:C:134:ARG:HB2	1.97	0.47
2:C:480:THR:CG2	2:C:481:ASP:N	2.78	0.47
2:C:755:LEU:CD1	2:C:792:VAL:HG22	2.45	0.47
2:C:854:PRO:HB2	2:C:856:GLU:CD	2.40	0.47
2:C:914:ILE:C	2:C:916:GLU:H	2.23	0.47
3:D:130:SER:O	3:D:568:ARG:CZ	2.63	0.47
3:D:139:GLY:O	3:D:140:ALA:C	2.58	0.47
3:D:202:VAL:O	3:D:203:ALA:C	2.57	0.47
3:D:988:ARG:HD3	3:D:992:ILE:HD11	1.97	0.47
3:D:1047:LYS:O	3:D:1050:GLY:N	2.48	0.47
3:D:1232:PRO:C	3:D:1234:THR:H	2.23	0.47
3:D:1284:GLU:HB2	3:D:1291:SER:OG	2.15	0.47
3:D:1314:LYS:O	3:D:1316:GLY:N	2.48	0.47
3:D:1331:ASP:O	3:D:1332:PRO:C	2.58	0.47
5:F:175:HIS:O	5:F:179:GLU:HG3	2.15	0.47
5:F:188:ILE:CD1	5:F:221:ILE:HG23	2.45	0.47
1:K:54:THR:C	1:K:167:VAL:HG22	2.40	0.47
1:L:46:SER:O	1:L:148:VAL:HB	2.14	0.47
1:L:206:THR:CG2	1:L:209:GLU:H	2.28	0.47
2:M:122:THR:HG22	2:M:123:GLU:H	1.80	0.47
2:M:184:MET:HE1	2:M:186:VAL:HG22	1.97	0.47
2:M:184:MET:C	2:M:184:MET:HE2	2.40	0.47
2:M:244:PRO:CD	2:M:245:GLY:H	2.28	0.47
2:M:256:TYR:CZ	2:M:293:PHE:HB2	2.49	0.47
2:M:275:TYR:CG	2:M:276:LYS:N	2.83	0.47
2:M:355:VAL:HG13	2:M:356:ARG:N	2.30	0.47
2:M:594:ALA:HB1	2:M:656:ALA:O	2.14	0.47
2:M:672:VAL:HG22	2:M:868:ASP:HB2	1.96	0.47
2:M:960:GLU:O	2:M:961:GLU:C	2.57	0.47
2:M:1047:HIS:CD2	3:N:754:PHE:CE2	3.03	0.47
3:N:130:SER:O	3:N:568:ARG:NH2	2.43	0.47
3:N:165:LYS:O	3:N:165:LYS:HD3	2.15	0.47
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.69	0.47
3:N:195:VAL:HB	3:N:205:TYR:CB	2.40	0.47
3:N:483:HIS:O	3:N:484:PRO:O	2.33	0.47
3:N:885:ILE:HD13	3:N:937:TYR:CB	2.44	0.47
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.63	0.47
2:C:78:PHE:HB3	2:C:79:PRO:CD	2.45	0.47
2:C:1081:VAL:CB	2:C:1086:ARG:HH21	2.26	0.47
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.97	0.47
3:D:218:LYS:CG	3:D:370:ALA:HB1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:792:ILE:HD11	3:D:881:LEU:HD23	1.95	0.47
3:D:824:ASN:O	3:D:826:PRO:HD3	2.14	0.47
3:D:1031:ASN:ND2	3:D:1033:GLN:HB3	2.29	0.47
3:D:1126:ASP:CG	3:D:1129:THR:HA	2.39	0.47
3:D:1357:ARG:C	3:D:1359:GLN:H	2.22	0.47
1:L:106:PRO:HG2	1:L:134:GLU:OE1	2.15	0.47
2:M:383:ARG:C	2:M:385:PHE:H	2.22	0.47
2:M:667:ALA:O	2:M:668:LEU:HD23	2.15	0.47
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.79	0.47
3:N:186:VAL:HG13	3:N:187:LYS:N	2.30	0.47
3:N:1001:GLU:OE1	3:N:1001:GLU:HA	2.12	0.47
5:P:162:LYS:O	5:P:166:LEU:HG	2.14	0.47
5:P:287:THR:HG22	5:P:290:GLU:OE1	2.14	0.47
2:C:24:GLU:OE2	2:C:24:GLU:HA	2.14	0.47
2:C:147:TYR:HE2	2:C:330:ASN:HB3	1.80	0.47
2:C:682:TYR:CD2	2:C:851:LYS:HG2	2.50	0.47
2:C:906:PHE:CD1	3:D:1067:VAL:HG22	2.50	0.47
2:C:1034:GLU:HG3	2:C:1035:MET:N	2.30	0.47
2:C:1100:GLN:O	3:D:9:ARG:O	2.31	0.47
3:D:81:THR:O	3:D:82:LYS:C	2.57	0.47
3:D:528:VAL:O	3:D:536:ALA:N	2.43	0.47
3:D:767:HIS:HE1	4:E:6:ILE:HG12	1.79	0.47
3:D:827:ILE:HG23	3:D:837:GLY:CA	2.44	0.47
3:D:1129:THR:CG2	3:D:1130:ARG:N	2.67	0.47
3:D:1377:LYS:HG3	3:D:1377:LYS:O	2.14	0.47
4:E:38:THR:HA	4:E:67:GLU:OE2	2.15	0.47
5:F:406:ARG:O	5:F:409:LYS:HG2	2.13	0.47
1:K:46:SER:OG	2:M:856:GLU:CD	2.58	0.47
1:L:18:ARG:NH1	1:L:203:GLY:O	2.48	0.47
2:M:410:ILE:HB	2:M:453:THR:O	2.14	0.47
2:M:432:ARG:HH22	3:N:1047:LYS:NZ	2.12	0.47
2:M:515:ALA:O	2:M:516:ARG:HD3	2.15	0.47
2:M:632:ASN:HB3	2:M:633:GLN:NE2	2.30	0.47
2:M:1092:LEU:CD2	2:M:1099:VAL:HG11	2.45	0.47
3:N:178:LEU:HD23	3:N:178:LEU:O	2.15	0.47
3:N:387:LEU:HB2	5:P:94:LEU:HD11	1.97	0.47
3:N:825:ALA:HA	3:N:826:PRO:HD3	1.70	0.47
3:N:1045:MET:CG	3:N:1073:SER:HA	2.45	0.47
3:N:1101:VAL:HG13	3:N:1102:THR:OG1	2.15	0.47
3:N:1209:LEU:CD1	3:N:1216:SER:H	2.28	0.47
3:N:1267:ARG:NH2	3:N:1271:LYS:HD2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1268:PRO:HB3	3:N:1329:ALA:HB3	1.97	0.47
5:P:132:ARG:HG2	5:P:181:GLU:HG3	1.96	0.47
1:A:51:THR:HA	1:A:145:ASP:O	2.14	0.46
1:A:221:HIS:CE1	1:A:224:TYR:HE2	2.33	0.46
1:B:36:LEU:C	1:B:39:PRO:HD2	2.40	0.46
2:C:66:LEU:CD1	2:C:100:LEU:HB3	2.44	0.46
2:C:582:GLY:N	2:C:584:GLU:OE2	2.47	0.46
2:C:672:VAL:HG21	2:C:868:ASP:HB2	1.93	0.46
2:C:923:GLU:O	2:C:927:GLY:CA	2.62	0.46
2:C:923:GLU:OE1	2:C:927:GLY:HA2	2.15	0.46
2:C:1035:MET:HE1	3:D:1092:GLY:N	2.30	0.46
3:D:55:ASP:HA	3:D:82:LYS:HG2	1.96	0.46
3:D:67:ARG:HA	3:D:67:ARG:NE	2.29	0.46
3:D:384:VAL:HG12	3:D:385:VAL:N	2.30	0.46
3:D:473:LEU:HD11	3:D:495:ARG:NH2	2.29	0.46
3:D:552:ASN:O	3:D:553:ARG:C	2.56	0.46
3:D:614:PHE:O	3:D:617:ASN:N	2.47	0.46
3:D:890:VAL:HG12	3:D:926:LYS:CG	2.44	0.46
3:D:1169:ASP:HA	3:D:1172:HIS:HB2	1.97	0.46
3:D:1256:LEU:N	3:D:1257:PRO:CD	2.78	0.46
3:D:1277:ILE:HG22	3:D:1278:ASP:N	2.30	0.46
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.44	0.46
3:D:1370:ILE:O	3:D:1372:VAL:N	2.48	0.46
5:F:218:GLN:HG3	5:F:218:GLN:O	2.15	0.46
1:L:33:GLY:HA2	1:L:195:LEU:HB2	1.97	0.46
2:M:218:VAL:O	2:M:221:LEU:HB3	2.15	0.46
3:N:127:LEU:HD11	3:N:461:ILE:HD11	1.96	0.46
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.23	0.46
3:N:376:GLU:OE1	3:N:376:GLU:N	2.43	0.46
3:N:399:ARG:HD3	3:N:402:PRO:HG3	1.97	0.46
3:N:741:ASP:C	3:N:741:ASP:OD1	2.58	0.46
3:N:1129:THR:CG2	3:N:1130:ARG:H	2.20	0.46
3:N:1396:GLU:HA	3:N:1399:ASP:HB2	1.97	0.46
5:P:129:GLU:O	5:P:142:ARG:NH1	2.47	0.46
5:P:217:ASN:C	5:P:219:GLY:N	2.70	0.46
5:P:238:TYR:CZ	5:P:242:TRP:NE1	2.75	0.46
5:P:406:ARG:HG2	5:P:409:LYS:CE	2.45	0.46
5:P:416:ARG:HD3	5:P:419:ARG:CB	2.45	0.46
1:A:203:GLY:O	1:A:205:VAL:N	2.49	0.46
1:A:228:PRO:HB3	1:B:13:VAL:CG2	2.46	0.46
1:B:27:PRO:CG	1:B:186:LEU:HD12	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.46
2:C:493:ARG:C	2:C:494:TYR:CG	2.93	0.46
2:C:676:ILE:HG23	2:C:988:VAL:HG13	1.97	0.46
3:D:95:LEU:HA	3:D:551:ASN:HD21	1.80	0.46
3:D:128:TYR:O	3:D:568:ARG:NH2	2.48	0.46
3:D:233:LYS:NZ	3:D:237:LYS:HD2	2.30	0.46
3:D:399:ARG:HB3	3:D:402:PRO:HG3	1.97	0.46
3:D:401:TYR:CD2	3:D:415:VAL:HG13	2.51	0.46
3:D:700:VAL:HG13	3:D:718:PRO:CG	2.46	0.46
3:D:926:LYS:O	3:D:929:ARG:HB3	2.15	0.46
3:D:1000:THR:HA	3:D:1041:LEU:HD21	1.96	0.46
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.46	0.46
3:D:1438:ALA:C	3:D:1440:PHE:H	2.22	0.46
3:D:1441:GLN:CA	3:D:1441:GLN:NE2	2.77	0.46
5:F:215:GLU:O	5:F:246:ALA:HB1	2.15	0.46
1:L:57:TYR:CZ	1:L:161:ARG:HD3	2.50	0.46
2:M:39:ARG:O	2:M:41:ASN:N	2.48	0.46
2:M:290:LEU:HD22	2:M:302:VAL:HB	1.97	0.46
2:M:537:LYS:O	2:M:539:VAL:N	2.48	0.46
2:M:744:ARG:HG2	2:M:744:ARG:HH11	1.80	0.46
2:M:774:LEU:C	2:M:774:LEU:HD13	2.40	0.46
2:M:1005:MET:HA	3:N:628:ARG:O	2.14	0.46
2:M:1008:ARG:HD2	2:M:1029:GLY:H	1.76	0.46
3:N:2:LYS:HB3	3:N:3:LYS:HE2	1.96	0.46
3:N:139:GLY:HA2	3:N:452:ILE:CG1	2.42	0.46
3:N:441:ARG:HB3	3:N:443:VAL:HG23	1.97	0.46
3:N:540:LEU:O	3:N:543:LEU:HB2	2.15	0.46
3:N:598:ARG:HH22	5:P:318:GLU:HG3	1.79	0.46
3:N:804:LEU:C	3:N:804:LEU:HD12	2.40	0.46
5:P:190:ALA:C	5:P:191:ASN:ND2	2.73	0.46
1:A:154:GLU:OE2	1:A:168:ASP:OD1	2.34	0.46
2:C:302:VAL:C	2:C:305:PRO:HD2	2.40	0.46
2:C:332:ARG:HG3	2:C:465:GLY:CA	2.44	0.46
2:C:1041:GLU:HB3	3:D:1462:LEU:HD12	1.96	0.46
2:C:1053:LEU:O	3:D:621:LYS:NZ	2.44	0.46
2:C:1093:GLN:HB3	3:D:21:TRP:CZ3	2.51	0.46
3:D:54:LYS:O	3:D:55:ASP:O	2.33	0.46
3:D:527:MET:CE	3:D:535:PHE:HB3	2.46	0.46
3:D:545:ARG:O	3:D:546:ARG:C	2.58	0.46
3:D:631:ILE:HD11	3:D:743:ASP:HB3	1.97	0.46
3:D:722:GLU:OE1	3:D:722:GLU:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1237:THR:HG22	3:D:1238:MET:N	2.30	0.46
4:E:41:GLU:HA	4:E:45:ARG:HG3	1.97	0.46
5:F:287:THR:C	5:F:289:GLU:N	2.74	0.46
1:K:189:ARG:HG2	1:K:190:THR:N	2.23	0.46
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.47	0.46
2:M:92:ALA:HB2	2:M:120:LEU:HG	1.98	0.46
2:M:205:GLU:HA	2:M:209:ARG:NE	2.31	0.46
2:M:1032:PHE:CE1	2:M:1052:MET:HG2	2.51	0.46
2:M:1055:LEU:H	2:M:1055:LEU:CD2	2.11	0.46
2:M:1092:LEU:HD23	2:M:1099:VAL:CG1	2.46	0.46
2:M:1097:LEU:CD1	2:M:1097:LEU:N	2.77	0.46
2:M:1109:VAL:HG12	2:M:1110:ASP:N	2.26	0.46
3:N:102:ILE:HD12	3:N:579:ASP:HB3	1.96	0.46
3:N:153:LEU:HD23	3:N:153:LEU:N	2.30	0.46
3:N:455:ARG:HH22	5:P:140:ARG:HB2	1.78	0.46
3:N:574:LEU:O	3:N:577:ALA:HB3	2.15	0.46
3:N:908:LYS:HB2	3:N:908:LYS:HE3	1.60	0.46
3:N:916:TYR:CE2	3:N:920:LEU:HD22	2.51	0.46
1:A:44:LEU:HD23	1:A:48:ILE:CD1	2.45	0.46
1:B:122:ILE:HG22	1:B:124:ASN:H	1.80	0.46
2:C:442:GLU:HG3	2:C:442:GLU:O	2.15	0.46
2:C:475:VAL:O	2:C:476:GLY:C	2.58	0.46
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.79	0.46
3:D:93:ILE:HD11	3:D:548:ILE:HD11	1.97	0.46
3:D:571:LYS:O	3:D:574:LEU:HB3	2.15	0.46
3:D:1342:GLU:CD	3:D:1342:GLU:H	2.24	0.46
3:D:1391:GLU:O	3:D:1392:GLY:O	2.33	0.46
3:D:1495:ILE:HG12	4:E:80:VAL:HG13	1.98	0.46
5:F:368:VAL:HG21	5:F:389:PHE:CD1	2.50	0.46
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.50	0.46
1:L:177:VAL:HG22	1:L:199:ILE:HG23	1.98	0.46
2:M:176:VAL:CG1	2:M:182:VAL:HG22	2.44	0.46
2:M:559:LEU:HD12	2:M:559:LEU:O	2.16	0.46
2:M:626:ARG:HG2	2:M:629:TYR:CE1	2.50	0.46
2:M:804:VAL:HB	2:M:824:ARG:HB2	1.97	0.46
2:M:1054:THR:CG2	2:M:1055:LEU:HD23	2.45	0.46
3:N:43:GLY:O	3:N:45:PHE:N	2.49	0.46
3:N:142:LEU:HD12	3:N:142:LEU:C	2.39	0.46
3:N:647:ARG:O	3:N:647:ARG:HG3	2.15	0.46
3:N:1274:ILE:HD12	3:N:1274:ILE:O	2.16	0.46
1:B:2:LEU:HD13	1:B:3:ASP:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:430:VAL:HG13	2:C:430:VAL:O	2.16	0.46
2:C:632:ASN:HB2	2:C:633:GLN:HE22	1.78	0.46
2:C:748:GLU:HB2	2:C:799:ILE:HG22	1.97	0.46
2:C:893:ALA:O	2:C:897:LEU:N	2.40	0.46
2:C:945:ARG:O	2:C:947:ALA:N	2.48	0.46
2:C:1031:ARG:HG3	3:D:620:GLY:HA3	1.96	0.46
2:C:1106:ASP:OD1	3:D:1456:LYS:HD3	2.16	0.46
2:C:1115:LEU:CD2	3:D:85:VAL:HG13	2.36	0.46
3:D:218:LYS:O	3:D:219:GLU:HB3	2.15	0.46
3:D:420:VAL:O	3:D:420:VAL:HG12	2.15	0.46
3:D:568:ARG:CA	3:D:571:LYS:NZ	2.72	0.46
3:D:703:ASN:O	3:D:745:MET:HG3	2.16	0.46
3:D:1084:THR:O	3:D:1088:THR:N	2.49	0.46
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.29	0.46
4:E:59:ASN:CG	4:E:61:GLU:OE2	2.58	0.46
5:F:137:GLY:CA	5:F:140:ARG:NH2	2.78	0.46
1:K:35:THR:CG2	1:L:39:PRO:HB3	2.45	0.46
1:K:133:GLU:HG2	1:K:134:GLU:N	2.29	0.46
1:K:214:ALA:O	1:K:217:ILE:HB	2.16	0.46
1:L:176:ARG:HD2	1:L:200:TRP:CZ3	2.51	0.46
2:M:124:ASP:CB	2:M:407:LYS:HZ2	2.29	0.46
2:M:319:GLY:O	2:M:321:GLU:CD	2.58	0.46
2:M:376:ARG:N	2:M:377:PRO:CD	2.79	0.46
2:M:475:VAL:O	2:M:476:GLY:C	2.58	0.46
2:M:605:LYS:HD2	2:M:610:ARG:HH12	1.79	0.46
2:M:668:LEU:O	2:M:995:MET:HB3	2.16	0.46
2:M:880:MET:HE2	3:N:1038:LEU:CD1	2.45	0.46
2:M:901:TYR:CE2	2:M:917:LEU:CD1	2.92	0.46
3:N:387:LEU:HD12	5:P:96:LEU:HB2	1.96	0.46
3:N:1189:ARG:NH1	3:N:1204:CYS:HA	2.30	0.46
3:N:1489:GLN:HA	3:N:1492:LEU:CB	2.46	0.46
5:P:166:LEU:HB3	5:P:170:HIS:CB	2.42	0.46
5:P:260:ILE:HG12	5:P:264:MET:HB3	1.97	0.46
5:P:333:ILE:HA	5:P:334:PRO:HD3	1.70	0.46
1:A:67:THR:HG21	2:C:609:ASN:CG	2.41	0.46
1:B:101:LEU:HD23	1:B:101:LEU:C	2.41	0.46
2:C:576:ALA:HB3	2:C:900:ARG:HH21	1.80	0.46
2:C:1057:SER:OG	3:D:621:LYS:HE3	2.14	0.46
3:D:500:ARG:NH1	3:D:500:ARG:HG3	2.30	0.46
3:D:647:ARG:HD2	3:D:680:GLN:NE2	2.31	0.46
3:D:674:ARG:CZ	5:F:342:VAL:HG11	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:988:ARG:HD2	3:D:988:ARG:C	2.41	0.46
3:D:1154:GLU:CG	3:D:1159:ARG:HH11	2.24	0.46
3:D:1200:VAL:HG22	3:D:1373:ARG:NH1	2.31	0.46
3:D:1211:MET:HG2	3:D:1213:ARG:NH1	2.31	0.46
3:D:1319:VAL:HA	3:D:1323:GLN:OE1	2.15	0.46
3:D:1438:ALA:N	3:D:1446:VAL:HG11	2.30	0.46
4:E:39:VAL:HG23	4:E:40:LEU:HG	1.97	0.46
5:F:84:TYR:CE1	5:F:192:LEU:HD22	2.51	0.46
2:M:139:GLN:HA	2:M:411:SER:O	2.16	0.46
2:M:521:PRO:HG3	3:N:1068:LEU:CD2	2.46	0.46
3:N:539:ASP:O	3:N:540:LEU:C	2.56	0.46
3:N:1102:THR:O	3:N:1105:ILE:HG12	2.16	0.46
3:N:1107:VAL:HG12	3:N:1217:ILE:HA	1.97	0.46
3:N:1108:ARG:O	3:N:1108:ARG:CG	2.64	0.46
3:N:1378:TYR:HB3	3:N:1420:LEU:CD2	2.44	0.46
3:N:1381:VAL:HG12	3:N:1382:THR:H	1.80	0.46
5:P:137:GLY:HA2	5:P:140:ARG:NH2	2.30	0.46
5:P:138:SER:O	5:P:140:ARG:N	2.49	0.46
5:P:269:ASN:O	5:P:272:SER:OG	2.26	0.46
1:B:26:GLU:HG3	1:B:184:THR:HG21	1.97	0.46
2:C:73:LEU:HD12	2:C:73:LEU:N	2.29	0.46
2:C:835:VAL:HG22	3:D:632:VAL:HG21	1.96	0.46
2:C:1092:LEU:HG	3:D:607:LEU:HD13	1.98	0.46
3:D:154:THR:HB	3:D:157:GLU:HG3	1.96	0.46
3:D:166:GLN:NE2	3:D:167:GLU:H	2.14	0.46
3:D:400:VAL:HA	3:D:442:ASN:O	2.15	0.46
3:D:662:GLU:OE1	3:D:663:GLU:N	2.48	0.46
3:D:732:VAL:O	3:D:735:ALA:N	2.47	0.46
3:D:932:ASP:C	3:D:935:LYS:H	2.24	0.46
3:D:984:THR:HG22	3:D:987:GLU:HB2	1.95	0.46
3:D:1260:ILE:C	3:D:1262:LEU:N	2.72	0.46
3:D:1492:LEU:HD13	3:D:1492:LEU:C	2.41	0.46
2:M:140:ILE:HD11	2:M:410:ILE:HG21	1.97	0.46
2:M:443:THR:HB	2:M:444:PRO:CD	2.46	0.46
2:M:546:LEU:HA	2:M:581:THR:OG1	2.15	0.46
2:M:567:GLN:HB3	2:M:997:LEU:HD22	1.97	0.46
2:M:1049:LEU:O	2:M:1049:LEU:HG	2.14	0.46
3:N:385:VAL:CG1	5:P:232:ARG:NH1	2.75	0.46
3:N:422:ALA:HB1	5:P:178:ARG:NH2	2.29	0.46
3:N:792:ILE:HD12	3:N:941:PHE:CD1	2.51	0.46
3:N:964:LEU:O	3:N:968:ASP:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1009:LYS:HD3	3:N:1009:LYS:HA	1.60	0.46
3:N:1336:LEU:C	3:N:1338:ALA:N	2.73	0.46
5:P:323:ASP:O	5:P:324:GLU:C	2.59	0.46
1:A:62:LEU:HD12	1:A:62:LEU:N	2.30	0.46
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.27	0.46
2:C:486:MET:HE1	2:C:496:ILE:HD11	1.98	0.46
2:C:560:MET:CE	2:C:846:LYS:HD2	2.45	0.46
2:C:579:VAL:HG13	2:C:579:VAL:O	2.16	0.46
2:C:678:PRO:HA	2:C:683:ASN:HD21	1.81	0.46
2:C:1056:LYS:HB3	3:D:624:ASP:N	2.31	0.46
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.98	0.46
3:D:34:TYR:CD1	3:D:35:ARG:N	2.83	0.46
3:D:224:ARG:HG2	3:D:225:LEU:N	2.30	0.46
3:D:887:ALA:HA	3:D:896:ALA:HB1	1.97	0.46
3:D:995:LEU:HA	3:D:998:GLU:OE1	2.16	0.46
3:D:996:TRP:CD1	3:D:1056:PRO:HG2	2.50	0.46
3:D:1481:VAL:HG12	4:E:21:VAL:HG21	1.97	0.46
5:F:167:PRO:HD2	5:F:170:HIS:CD2	2.51	0.46
2:M:383:ARG:C	2:M:385:PHE:N	2.74	0.46
2:M:413:LEU:CD1	2:M:451:LEU:HB3	2.46	0.46
2:M:585:GLU:O	2:M:588:VAL:HG22	2.16	0.46
2:M:737:LEU:CD2	2:M:741:GLY:O	2.64	0.46
2:M:1036:GLU:O	2:M:1039:ALA:CB	2.64	0.46
2:M:1043:TYR:HB3	3:N:762:GLN:CD	2.41	0.46
2:M:1052:MET:SD	2:M:1056:LYS:CE	3.04	0.46
3:N:49:ILE:HG22	3:N:50:PHE:CD2	2.51	0.46
3:N:78:VAL:C	3:N:79:GLU:O	2.56	0.46
3:N:103:TRP:CZ3	3:N:1447:LEU:HD23	2.50	0.46
3:N:123:LEU:CD2	3:N:152:LEU:HD22	2.45	0.46
3:N:217:LYS:O	3:N:373:PRO:HA	2.16	0.46
3:N:1258:ARG:HA	3:N:1261:GLU:HB3	1.98	0.46
3:N:1458:GLU:O	3:N:1460:ILE:HG13	2.16	0.46
4:O:30:LEU:O	4:O:35:PHE:CD1	2.68	0.46
4:O:57:ASP:N	4:O:58:PRO:HD3	2.30	0.46
5:P:203:THR:O	5:P:205:ARG:N	2.49	0.46
1:A:67:THR:HG23	1:A:67:THR:O	2.16	0.46
1:B:29:GLU:O	1:B:30:ARG:C	2.57	0.46
2:C:26:TYR:HE1	2:C:340:MET:HG3	1.79	0.46
2:C:31:GLN:CD	2:C:40:GLU:HB2	2.41	0.46
2:C:674:VAL:HA	2:C:869:VAL:CG1	2.46	0.46
2:C:723:THR:OG1	2:C:724:ARG:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1045:ALA:HB1	2:C:1048:THR:CB	2.40	0.46
3:D:770:LEU:HD11	3:D:919:PHE:CD1	2.51	0.46
3:D:1021:TYR:CZ	3:D:1025:GLN:HG3	2.51	0.46
3:D:1491:THR:HG21	4:E:89:MET:SD	2.55	0.46
5:F:87:GLU:HA	5:F:90:GLN:HE21	1.81	0.46
5:F:336:GLU:C	5:F:338:LEU:N	2.74	0.46
1:L:56:VAL:HB	1:L:165:ILE:HG13	1.98	0.46
2:M:143:SER:CB	2:M:276:LYS:HZ3	2.28	0.46
2:M:495:THR:N	2:M:530:GLU:OE1	2.46	0.46
2:M:572:ILE:HG13	2:M:573:ARG:HG2	1.98	0.46
2:M:859:PRO:HB2	2:M:867:VAL:HG21	1.98	0.46
2:M:1043:TYR:C	2:M:1045:ALA:N	2.64	0.46
3:N:12:LEU:CB	3:N:507:ASN:ND2	2.74	0.46
3:N:137:PRO:CG	3:N:453:ASP:HB3	2.46	0.46
3:N:194:GLY:N	3:N:205:TYR:O	2.49	0.46
3:N:218:LYS:HB2	3:N:218:LYS:HZ2	1.78	0.46
3:N:411:THR:CG2	3:N:429:SER:HB2	2.46	0.46
3:N:568:ARG:O	3:N:569:ASN:C	2.59	0.46
3:N:583:ASP:OD1	3:N:604:THR:CG2	2.64	0.46
3:N:637:LEU:C	3:N:638:LYS:HG3	2.40	0.46
3:N:940:THR:O	3:N:943:THR:HG22	2.15	0.46
3:N:1094:LEU:C	3:N:1096:ARG:H	2.23	0.46
3:N:1282:ARG:HH12	3:N:1293:PHE:CB	2.28	0.46
3:N:1316:GLY:C	3:N:1317:ASP:CG	2.84	0.46
5:P:102:LEU:C	5:P:104:ARG:N	2.68	0.46
5:P:179:GLU:O	5:P:182:ALA:HB3	2.16	0.46
1:B:14:ARG:O	1:B:21:GLY:HA2	2.16	0.46
2:C:19:THR:HG22	2:C:19:THR:O	2.16	0.46
2:C:118:ILE:HG23	2:C:118:ILE:O	2.15	0.46
2:C:286:SER:HB2	2:C:299:LYS:HZ2	1.80	0.46
2:C:439:CYS:SG	2:C:442:GLU:HB2	2.56	0.46
2:C:850:ALA:HB1	3:D:633:VAL:HG12	1.98	0.46
3:D:382:GLU:CG	3:D:383:GLY:H	2.20	0.46
3:D:566:ILE:CG1	5:F:192:LEU:HD11	2.46	0.46
3:D:627:GLY:HA3	3:D:648:MET:HE2	1.97	0.46
3:D:806:PHE:C	3:D:808:THR:H	2.24	0.46
3:D:904:VAL:HB	3:D:905:PRO:CD	2.46	0.46
3:D:1209:LEU:HD12	3:D:1219:GLU:OE1	2.16	0.46
5:F:323:ASP:O	5:F:324:GLU:C	2.59	0.46
5:F:329:TYR:O	5:F:332:PHE:HB2	2.15	0.46
1:K:179:PHE:HA	1:K:197:LEU:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:311:PHE:O	2:M:314:THR:OG1	2.26	0.46
2:M:734:LEU:HD13	2:M:737:LEU:CD1	2.46	0.46
2:M:865:THR:HA	2:M:866:PRO:HD3	1.64	0.46
2:M:1047:HIS:CE1	3:N:754:PHE:CG	3.04	0.46
2:M:1047:HIS:CG	3:N:754:PHE:CG	3.04	0.46
3:N:831:GLY:O	3:N:832:ARG:C	2.58	0.46
3:N:1008:PHE:HZ	3:N:1032:PRO:HA	1.81	0.46
3:N:1127:GLU:C	3:N:1129:THR:H	2.24	0.46
3:N:1372:VAL:CA	3:N:1375:MET:HG3	2.46	0.46
1:B:68:ILE:O	1:B:71:VAL:HB	2.15	0.45
2:C:85:GLU:C	2:C:86:LYS:O	2.59	0.45
2:C:458:TYR:O	2:C:470:PRO:HD3	2.15	0.45
2:C:562:SER:C	2:C:563:ASN:ND2	2.69	0.45
2:C:807:ARG:HH21	2:C:808:ARG:CB	2.26	0.45
3:D:247:GLU:N	3:D:248:PRO:HD2	2.28	0.45
3:D:433:GLY:O	3:D:434:ARG:NH1	2.49	0.45
3:D:508:ARG:HH11	3:D:508:ARG:HG3	1.81	0.45
3:D:898:GLU:OE2	3:D:921:ARG:NH1	2.49	0.45
3:D:927:THR:O	3:D:928:ALA:C	2.59	0.45
3:D:927:THR:O	3:D:930:LEU:N	2.48	0.45
3:D:1211:MET:HB3	3:D:1213:ARG:CZ	2.46	0.45
3:D:1440:PHE:N	3:D:1440:PHE:CD1	2.84	0.45
5:F:100:VAL:O	5:F:103:ALA:HB3	2.17	0.45
5:F:128:ARG:HD3	5:F:132:ARG:HH22	1.81	0.45
5:F:215:GLU:O	5:F:218:GLN:HB3	2.16	0.45
1:K:115:LEU:O	1:K:117:VAL:HG23	2.16	0.45
1:K:169:ALA:HB1	1:K:171:PHE:CZ	2.51	0.45
2:M:424:GLY:O	2:M:428:ARG:HG3	2.16	0.45
2:M:521:PRO:HG3	3:N:1068:LEU:HD21	1.96	0.45
2:M:630:ARG:NE	2:M:705:ILE:O	2.48	0.45
2:M:673:LEU:HD11	2:M:895:TYR:CE2	2.51	0.45
2:M:754:ILE:HD11	2:M:791:ARG:HH11	1.81	0.45
2:M:1019:GLN:O	2:M:1020:PRO:O	2.34	0.45
3:N:27:GLU:HG2	3:N:42:ASP:HB2	1.98	0.45
3:N:53:ILE:HG23	3:N:54:LYS:N	2.31	0.45
3:N:368:VAL:CG2	3:N:369:ALA:H	2.23	0.45
3:N:404:GLU:OE1	3:N:414:ARG:CZ	2.63	0.45
3:N:486:ARG:HA	3:N:486:ARG:NE	2.30	0.45
3:N:539:ASP:OD2	3:N:598:ARG:NH2	2.43	0.45
3:N:730:PRO:O	3:N:731:LEU:C	2.59	0.45
3:N:772:PRO:HG3	3:N:1210:SER:OG	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:779:ALA:O	3:N:931:LEU:HD22	2.16	0.45
3:N:810:GLU:O	3:N:813:LEU:HG	2.16	0.45
1:A:13:VAL:CG1	1:A:14:ARG:H	2.27	0.45
1:A:218:LEU:HD23	1:B:222:LEU:HD11	1.97	0.45
1:A:227:ASN:H	1:A:227:ASN:ND2	2.14	0.45
2:C:207:LEU:HD13	2:C:221:LEU:HD11	1.98	0.45
2:C:365:ASP:C	2:C:367:LEU:H	2.24	0.45
3:D:60:CYS:SG	3:D:61:GLY:N	2.89	0.45
3:D:173:PRO:HG2	3:D:200:ASP:HB2	1.97	0.45
3:D:191:LEU:HD22	3:D:195:VAL:HG21	1.98	0.45
3:D:228:ALA:HB1	3:D:231:VAL:CG2	2.46	0.45
4:E:9:LEU:HB3	4:E:19:LEU:CD2	2.46	0.45
5:F:364:ARG:O	5:F:365:GLU:C	2.59	0.45
1:K:52:ALA:HB3	1:K:171:PHE:HD1	1.81	0.45
1:L:7:LYS:HE3	1:L:186:LEU:HD22	1.97	0.45
2:M:1014:SER:CB	2:M:1017:THR:HG23	2.46	0.45
2:M:1054:THR:HG22	2:M:1055:LEU:HD23	1.97	0.45
3:N:97:THR:HG21	3:N:571:LYS:CE	2.46	0.45
3:N:375:GLU:HG3	3:N:375:GLU:O	2.17	0.45
3:N:541:ASN:O	3:N:542:ASP:C	2.59	0.45
3:N:691:LEU:CD2	3:N:720:LEU:HD11	2.45	0.45
3:N:1039:CYS:O	3:N:1040:GLY:O	2.35	0.45
5:P:239:ALA:O	5:P:242:TRP:N	2.48	0.45
5:P:321:ILE:CD1	5:P:329:TYR:HB2	2.41	0.45
2:C:1109:VAL:CG1	3:D:5:VAL:HG22	2.25	0.45
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.98	0.45
3:D:521:PRO:C	3:D:525:ARG:NH1	2.74	0.45
3:D:1223:ILE:HD12	3:D:1223:ILE:N	2.31	0.45
5:F:341:PRO:C	5:F:343:ASP:H	2.25	0.45
1:L:48:ILE:HD12	1:L:174:VAL:HG21	1.97	0.45
2:M:172:ILE:N	2:M:172:ILE:HD12	2.32	0.45
3:N:82:LYS:C	3:N:84:ILE:N	2.71	0.45
3:N:137:PRO:HB2	3:N:138:LYS:HD2	1.98	0.45
3:N:486:ARG:HA	3:N:489:ARG:HD2	1.95	0.45
3:N:847:ASP:OD2	3:N:884:ARG:NH2	2.48	0.45
3:N:1006:ALA:O	3:N:1009:LYS:N	2.50	0.45
3:N:1304:LYS:H	3:N:1304:LYS:HD3	1.81	0.45
4:O:63:TRP:O	4:O:67:GLU:N	2.49	0.45
1:A:124:ASN:HB3	1:A:127:LEU:HD23	1.98	0.45
1:B:6:LEU:HG	1:B:6:LEU:O	2.14	0.45
1:B:79:ILE:O	1:B:83:LYS:HG3	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:100:LEU:HB2	1:B:115:LEU:HD21	1.99	0.45
2:C:126:SER:HB3	2:C:395:LYS:HZ1	1.80	0.45
2:C:148:PHE:CZ	2:C:309:TYR:HB3	2.51	0.45
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.31	0.45
2:C:516:ARG:HD2	2:C:521:PRO:HA	1.98	0.45
2:C:694:LEU:CD2	2:C:697:ARG:NH2	2.74	0.45
2:C:759:THR:HB	2:C:785:VAL:CG2	2.46	0.45
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.96	0.45
3:D:50:PHE:CD2	3:D:522:PRO:HD3	2.52	0.45
3:D:674:ARG:HG2	3:D:674:ARG:HH11	1.82	0.45
3:D:704:ARG:CG	3:D:705:ALA:H	2.29	0.45
3:D:752:SER:O	3:D:754:PHE:N	2.49	0.45
3:D:919:PHE:HD2	3:D:919:PHE:O	2.00	0.45
3:D:937:TYR:N	3:D:937:TYR:CD1	2.73	0.45
3:D:1229:ILE:O	3:D:1229:ILE:HG22	2.16	0.45
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.16	0.45
3:D:1434:TRP:CD1	3:D:1434:TRP:C	2.94	0.45
1:L:175:ARG:HG2	1:L:175:ARG:HH11	1.82	0.45
2:M:15:LEU:O	2:M:586:ARG:NH2	2.49	0.45
2:M:118:ILE:HG13	2:M:118:ILE:O	2.16	0.45
2:M:344:PHE:CE2	2:M:378:LEU:HD21	2.51	0.45
2:M:347:GLY:HA3	2:M:378:LEU:HD12	1.98	0.45
2:M:474:VAL:HG13	2:M:529:VAL:O	2.15	0.45
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.83	0.45
2:M:551:GLU:CD	2:M:551:GLU:N	2.53	0.45
2:M:556:ASN:O	2:M:559:LEU:HB3	2.17	0.45
2:M:575:GLN:OE1	2:M:671:ASN:N	2.49	0.45
2:M:883:GLY:O	2:M:885:ILE:N	2.49	0.45
2:M:967:PHE:HA	2:M:971:LYS:O	2.17	0.45
3:N:47:GLU:OE1	3:N:51:GLY:O	2.34	0.45
3:N:168:THR:C	3:N:170:PRO:HD3	2.41	0.45
3:N:424:GLY:HA2	3:N:435:VAL:O	2.17	0.45
3:N:500:ARG:NH1	3:N:1386:ASP:O	2.50	0.45
3:N:562:ALA:O	3:N:567:ILE:HD11	2.17	0.45
3:N:902:LEU:CD1	3:N:902:LEU:O	2.64	0.45
3:N:1111:ASP:HB3	3:N:1203:LYS:HZ1	1.81	0.45
3:N:1343:ALA:O	3:N:1345:GLU:N	2.49	0.45
3:N:1446:VAL:O	3:N:1446:VAL:HG12	2.16	0.45
5:P:105:LYS:NZ	5:P:105:LYS:CB	2.72	0.45
5:P:282:LEU:C	5:P:284:ARG:N	2.74	0.45
5:P:394:ARG:H	5:P:394:ARG:CD	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:151:VAL:O	1:A:152:PRO:C	2.60	0.45
2:C:134:ARG:NH1	2:C:392:SER:OG	2.49	0.45
2:C:247:PRO:HA	2:C:248:PRO:HD3	1.74	0.45
2:C:470:PRO:O	2:C:538:GLN:OE1	2.35	0.45
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.98	0.45
2:C:1033:GLY:C	2:C:1037:VAL:HG23	2.40	0.45
2:C:1083:GLU:OE1	3:D:87:ARG:NH1	2.49	0.45
3:D:31:THR:HG22	3:D:32:ILE:HG13	1.99	0.45
3:D:843:PHE:CZ	3:D:858:VAL:HG21	2.50	0.45
3:D:913:ASP:O	3:D:914:LEU:C	2.59	0.45
3:D:1138:ALA:C	3:D:1140:ILE:N	2.74	0.45
3:D:1351:GLU:O	3:D:1354:LYS:HB2	2.16	0.45
4:E:45:ARG:HB3	4:E:46:PRO:CD	2.44	0.45
5:F:192:LEU:HA	5:F:195:VAL:HG23	1.97	0.45
1:K:91:ASN:HD22	1:K:91:ASN:HA	1.59	0.45
1:K:111:ALA:O	1:K:114:PHE:HD1	1.99	0.45
2:M:243:ARG:HA	2:M:244:PRO:HD3	1.45	0.45
2:M:290:LEU:HD23	2:M:290:LEU:N	2.20	0.45
2:M:406:HIS:HD2	2:M:409:ARG:NH2	2.15	0.45
2:M:497:ALA:O	2:M:533:ASP:OD1	2.35	0.45
2:M:682:TYR:CE1	3:N:635:PRO:HD2	2.51	0.45
2:M:712:ALA:O	2:M:820:ARG:N	2.46	0.45
2:M:881:ASN:HD22	2:M:881:ASN:N	2.13	0.45
2:M:949:LYS:NZ	3:N:828:LYS:NZ	2.64	0.45
2:M:1054:THR:CG2	2:M:1059:ASP:OD2	2.63	0.45
3:N:103:TRP:HH2	3:N:1447:LEU:HD23	1.82	0.45
3:N:148:GLU:O	3:N:150:ARG:N	2.49	0.45
3:N:502:PHE:CE2	3:N:1452:ILE:HG23	2.52	0.45
3:N:817:GLU:O	3:N:821:VAL:HG23	2.16	0.45
3:N:1036:ARG:CB	3:N:1036:ARG:HH11	2.28	0.45
3:N:1371:VAL:O	3:N:1371:VAL:HG12	2.16	0.45
3:N:1381:VAL:HG12	3:N:1382:THR:N	2.31	0.45
3:N:1383:ASP:O	3:N:1384:PRO:O	2.35	0.45
1:A:20:TYR:HH	1:A:198:ARG:NH2	2.15	0.45
1:A:44:LEU:HD23	1:A:48:ILE:HD11	1.98	0.45
1:A:180:GLN:HE22	2:C:934:PHE:HB2	1.82	0.45
1:B:96:THR:HA	1:B:144:VAL:O	2.17	0.45
2:C:48:PHE:C	2:C:50:GLU:N	2.72	0.45
2:C:167:LYS:O	2:C:169:GLY:N	2.50	0.45
2:C:288:ARG:HA	2:C:288:ARG:HE	1.80	0.45
2:C:397:GLU:HG3	2:C:633:GLN:NE2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:555:ALA:O	2:C:556:ASN:C	2.57	0.45
2:C:608:GLY:C	2:C:609:ASN:HD22	2.24	0.45
3:D:142:LEU:HD12	3:D:142:LEU:C	2.42	0.45
3:D:166:GLN:HG3	3:D:167:GLU:N	2.31	0.45
3:D:1273:VAL:HG22	3:D:1326:THR:HG1	1.82	0.45
1:L:26:GLU:HB2	1:L:194:LYS:HG3	1.97	0.45
1:L:91:ASN:H	1:L:94:LEU:CD1	2.24	0.45
2:M:269:LEU:C	2:M:288:ARG:HE	2.24	0.45
2:M:344:PHE:CD2	2:M:382:ILE:HD11	2.51	0.45
2:M:443:THR:HG21	2:M:450:GLY:HA2	1.98	0.45
2:M:690:ILE:HD13	2:M:690:ILE:HA	1.85	0.45
3:N:631:ILE:HD11	3:N:743:ASP:HB2	1.97	0.45
3:N:636:GLN:O	3:N:637:LEU:O	2.34	0.45
3:N:885:ILE:HD13	3:N:937:TYR:CG	2.52	0.45
3:N:1388:ARG:O	3:N:1391:GLU:HG2	2.17	0.45
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.98	0.45
5:P:274:THR:O	5:P:278:LEU:HG	2.16	0.45
1:B:42:ARG:HG2	1:B:42:ARG:HH11	1.80	0.45
2:C:95:TYR:HB3	2:C:114:PHE:CA	2.46	0.45
2:C:332:ARG:HG3	2:C:465:GLY:O	2.17	0.45
2:C:881:ASN:C	2:C:883:GLY:H	2.25	0.45
2:C:1004:LYS:CE	2:C:1027:PHE:HE1	2.30	0.45
2:C:1012:PRO:C	2:C:1013:TYR:CD2	2.95	0.45
2:C:1091:GLU:CD	3:D:606:ILE:CG2	2.89	0.45
3:D:119:SER:O	3:D:120:ALA:C	2.59	0.45
3:D:141:ILE:HD11	3:D:449:SER:C	2.42	0.45
3:D:177:ALA:HA	3:D:199:LEU:HD13	1.99	0.45
3:D:441:ARG:O	3:D:443:VAL:N	2.50	0.45
3:D:525:ARG:HE	3:D:541:ASN:CG	2.25	0.45
3:D:601:ARG:CZ	3:D:611:GLN:HB2	2.47	0.45
3:D:1123:PHE:CD1	3:D:1134:LEU:HA	2.52	0.45
3:D:1198:TYR:OH	3:D:1397:LYS:HE3	2.16	0.45
3:D:1254:GLN:CD	3:D:1255:GLY:H	2.23	0.45
3:D:1426:LYS:HB2	3:D:1426:LYS:HZ3	1.82	0.45
5:F:210:LEU:HD23	5:F:213:ILE:CD1	2.47	0.45
1:K:6:LEU:C	1:K:8:ALA:H	2.24	0.45
1:K:10:VAL:H	1:K:26:GLU:HB2	1.82	0.45
1:K:124:ASN:O	1:K:126:ASP:N	2.49	0.45
1:L:150:TYR:CE1	1:L:170:VAL:HG12	2.51	0.45
2:M:31:GLN:NE2	2:M:40:GLU:O	2.50	0.45
2:M:157:ARG:CZ	2:M:314:THR:CA	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:512:ARG:CG	2:M:523:ILE:HD11	2.47	0.45
2:M:537:LYS:N	2:M:905:ILE:HD11	2.32	0.45
2:M:554:ASP:OD1	2:M:554:ASP:C	2.60	0.45
2:M:643:VAL:HG23	2:M:655:LEU:O	2.16	0.45
2:M:732:ALA:O	2:M:735:ARG:HG3	2.16	0.45
2:M:1054:THR:HG23	2:M:1059:ASP:HB2	1.98	0.45
2:M:1088:LEU:O	2:M:1091:GLU:N	2.50	0.45
2:M:1098:ASP:OD1	2:M:1098:ASP:C	2.59	0.45
3:N:1015:TYR:C	3:N:1017:PHE:N	2.70	0.45
3:N:1015:TYR:N	3:N:1016:PRO:HD3	2.32	0.45
3:N:1040:GLY:O	3:N:1060:SER:CB	2.54	0.45
3:N:1122:LEU:HD23	3:N:1178:ALA:CB	2.46	0.45
5:P:131:VAL:O	5:P:131:VAL:HG12	2.16	0.45
5:P:369:LEU:HD23	5:P:369:LEU:HA	1.85	0.45
1:A:151:VAL:CG1	1:A:155:LYS:HB3	2.47	0.45
2:C:164:PRO:HB3	2:C:266:ARG:NH1	2.32	0.45
2:C:184:MET:HE1	2:C:196:LEU:HD13	1.99	0.45
2:C:537:LYS:CB	2:C:545:ASN:HD21	2.30	0.45
2:C:575:GLN:HA	2:C:662:GLU:OE2	2.17	0.45
2:C:575:GLN:HA	2:C:662:GLU:HG3	1.99	0.45
2:C:626:ARG:HB3	2:C:629:TYR:CD1	2.52	0.45
2:C:814:GLU:C	2:C:815:LEU:O	2.60	0.45
2:C:918:LEU:CB	2:C:968:LEU:HD23	2.47	0.45
2:C:936:VAL:HA	2:C:940:GLU:OE2	2.17	0.45
2:C:1093:GLN:OE1	3:D:90:MET:SD	2.75	0.45
3:D:18:ILE:HG21	3:D:516:ALA:O	2.17	0.45
3:D:50:PHE:O	3:D:89:ARG:HD2	2.17	0.45
3:D:456:MET:HG2	3:D:568:ARG:NH1	2.32	0.45
3:D:510:GLU:O	3:D:513:ILE:HG13	2.17	0.45
3:D:1143:GLY:O	3:D:1144:LEU:HD23	2.16	0.45
1:K:143:ARG:NE	1:K:158:ILE:HG21	2.32	0.45
2:M:861:LEU:HB3	2:M:862:PRO:CD	2.47	0.45
2:M:910:LYS:H	2:M:913:GLU:HB2	1.82	0.45
3:N:14:SER:HG	3:N:511:TRP:NE1	2.12	0.45
3:N:795:VAL:HG23	3:N:879:ARG:NH2	2.32	0.45
3:N:1165:TYR:OH	3:N:1203:LYS:CA	2.64	0.45
5:P:181:GLU:OE1	5:P:185:GLN:NE2	2.42	0.45
1:A:13:VAL:O	1:A:14:ARG:HG3	2.17	0.45
1:A:48:ILE:HA	1:A:49:PRO:HD3	1.68	0.45
1:A:194:LYS:HG2	1:A:194:LYS:O	2.17	0.45
1:B:86:VAL:HG13	1:B:86:VAL:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:176:ARG:HH22	3:D:884:ARG:NE	2.15	0.45
1:B:176:ARG:NH1	3:D:884:ARG:NH1	2.65	0.45
2:C:70:GLU:O	2:C:96:ALA:HB1	2.17	0.45
2:C:674:VAL:HA	2:C:869:VAL:HG12	1.99	0.45
2:C:708:TYR:HE2	2:C:793:PRO:HD3	1.82	0.45
2:C:918:LEU:O	2:C:921:ALA:N	2.50	0.45
2:C:1068:GLU:O	2:C:1069:ALA:C	2.60	0.45
2:C:1098:ASP:HB2	3:D:21:TRP:HZ2	1.78	0.45
3:D:232:GLU:O	3:D:234:GLU:N	2.49	0.45
3:D:548:ILE:O	3:D:549:ASN:C	2.60	0.45
3:D:695:ILE:O	3:D:695:ILE:CG2	2.64	0.45
3:D:755:ALA:O	3:D:759:ALA:HB2	2.17	0.45
3:D:899:LEU:HD22	3:D:900:ILE:HG23	1.98	0.45
3:D:1114:THR:HG23	3:D:1114:THR:O	2.16	0.45
3:D:1126:ASP:CG	3:D:1129:THR:O	2.60	0.45
3:D:1263:PHE:CD2	3:D:1375:MET:HE1	2.50	0.45
3:D:1281:VAL:HB	3:D:1314:LYS:O	2.17	0.45
3:D:1428:ALA:C	3:D:1430:SER:H	2.24	0.45
5:F:93:LEU:HD11	5:F:102:LEU:HD12	1.99	0.45
5:F:120:THR:C	5:F:122:LEU:H	2.23	0.45
1:K:6:LEU:C	1:K:8:ALA:N	2.75	0.45
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.51	0.45
1:L:150:TYR:CD1	1:L:170:VAL:HG12	2.52	0.45
2:M:207:LEU:HD23	2:M:211:LEU:HD22	1.99	0.45
2:M:265:ARG:N	2:M:289:THR:HG21	2.32	0.45
2:M:512:ARG:CB	2:M:523:ILE:HD11	2.47	0.45
2:M:691:SER:C	2:M:693:GLU:H	2.24	0.45
2:M:711:GLU:HG2	2:M:822:VAL:HG12	1.99	0.45
2:M:962:GLN:C	2:M:964:LYS:H	2.25	0.45
3:N:385:VAL:CG1	5:P:232:ARG:HH12	2.29	0.45
3:N:494:LYS:C	3:N:497:GLU:HG3	2.42	0.45
3:N:504:ASP:C	3:N:506:GLY:N	2.75	0.45
3:N:527:MET:CE	3:N:537:THR:HB	2.46	0.45
3:N:770:LEU:HD23	3:N:770:LEU:N	2.32	0.45
3:N:1049:SER:HB3	3:N:1050:GLY:H	1.60	0.45
3:N:1096:ARG:HG2	3:N:1096:ARG:HH11	1.79	0.45
3:N:1175:ILE:O	3:N:1179:GLU:HG3	2.17	0.45
3:N:1233:GLY:HA2	3:N:1236:LEU:CD1	2.47	0.45
4:O:15:SER:O	4:O:16:LYS:C	2.60	0.45
1:A:40:LEU:O	1:A:41:ARG:C	2.60	0.45
1:A:182:GLU:O	1:A:194:LYS:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:39:PRO:O	1:B:43:ILE:HG12	2.17	0.45
1:B:108:GLU:HG2	1:B:128:HIS:HE1	1.81	0.45
2:C:227:PHE:C	2:C:229:MET:H	2.25	0.45
2:C:352:ALA:C	2:C:355:VAL:HG12	2.42	0.45
2:C:385:PHE:CD1	2:C:389:SER:HB2	2.52	0.45
2:C:445:GLU:HG3	2:C:446:GLY:N	2.31	0.45
2:C:807:ARG:HA	2:C:821:GLU:HB3	1.99	0.45
2:C:916:GLU:O	2:C:917:LEU:C	2.60	0.45
3:D:1138:ALA:C	3:D:1140:ILE:H	2.25	0.45
3:D:1442:ASN:O	3:D:1443:THR:C	2.59	0.45
3:D:1442:ASN:O	3:D:1444:THR:N	2.50	0.45
5:F:119:ILE:HD13	5:F:170:HIS:ND1	2.32	0.45
5:F:125:ASP:OD2	5:F:126:LEU:HD12	2.17	0.45
1:K:219:ARG:CZ	1:K:220:GLU:N	2.81	0.45
1:L:18:ARG:O	1:L:207:PRO:HD3	2.17	0.45
1:L:121:GLU:HG2	1:L:122:ILE:H	1.81	0.45
2:M:537:LYS:HA	2:M:905:ILE:HD13	1.99	0.45
3:N:233:LYS:HD2	3:N:237:LYS:NZ	2.32	0.45
3:N:583:ASP:OD2	3:N:604:THR:OG1	2.34	0.45
3:N:654:LYS:CB	3:N:655:PRO:HD3	2.47	0.45
3:N:711:LEU:C	3:N:713:ILE:N	2.73	0.45
3:N:785:ILE:HG23	3:N:938:GLY:HA3	1.98	0.45
3:N:820:GLU:C	3:N:822:ALA:N	2.74	0.45
3:N:930:LEU:HG	3:N:934:LEU:HD13	1.99	0.45
3:N:1036:ARG:HB3	3:N:1036:ARG:HH11	1.78	0.45
3:N:1041:LEU:O	3:N:1041:LEU:HD23	2.16	0.45
3:N:1267:ARG:NH1	3:N:1334:GLN:OE1	2.50	0.45
5:P:130:VAL:C	5:P:132:ARG:N	2.75	0.45
5:P:140:ARG:HH11	5:P:140:ARG:HG3	1.82	0.45
5:P:343:ASP:O	5:P:346:THR:N	2.43	0.45
1:A:176:ARG:O	1:A:177:VAL:HG23	2.16	0.44
1:A:214:ALA:O	1:A:216:GLU:N	2.50	0.44
1:B:56:VAL:HA	1:B:141:GLU:O	2.16	0.44
1:B:56:VAL:HG23	1:B:167:VAL:HG21	1.99	0.44
2:C:91:GLN:OE1	2:C:117:HIS:HB3	2.17	0.44
2:C:464:LEU:O	2:C:466:PHE:CD2	2.70	0.44
2:C:483:VAL:HG12	2:C:484:VAL:N	2.32	0.44
2:C:722:ILE:HG21	2:C:821:GLU:OE2	2.18	0.44
2:C:1081:VAL:CG2	2:C:1086:ARG:HH21	2.29	0.44
3:D:80:VAL:HG22	3:D:81:THR:N	2.30	0.44
3:D:130:SER:OG	3:D:132:TYR:HE1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:179:VAL:CG1	3:D:217:LYS:HE3	2.47	0.44
3:D:179:VAL:HG21	3:D:217:LYS:HE3	1.98	0.44
3:D:237:LYS:CB	3:D:238:PRO:HD3	2.20	0.44
3:D:526:PRO:O	3:D:537:THR:HA	2.16	0.44
3:D:591:VAL:HG12	3:D:598:ARG:O	2.17	0.44
3:D:703:ASN:ND2	3:D:703:ASN:C	2.75	0.44
3:D:1087:ARG:NE	3:D:1238:MET:HB2	2.24	0.44
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.80	0.44
5:F:105:LYS:NZ	5:F:105:LYS:HB3	2.32	0.44
1:L:5:LYS:HA	1:L:5:LYS:CE	2.38	0.44
1:L:103:ALA:CB	1:L:107:LYS:HZ1	2.30	0.44
2:M:13:ILE:HD11	2:M:534:VAL:HG21	1.99	0.44
2:M:207:LEU:HD22	2:M:221:LEU:HD21	1.99	0.44
2:M:342:ASP:O	2:M:346:VAL:HG23	2.17	0.44
2:M:544:THR:C	2:M:546:LEU:H	2.25	0.44
2:M:883:GLY:C	2:M:885:ILE:N	2.73	0.44
2:M:969:GLN:C	2:M:971:LYS:H	2.25	0.44
2:M:1085:PHE:O	2:M:1088:LEU:HB3	2.16	0.44
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.52	0.44
3:N:806:PHE:O	3:N:809:PRO:HD2	2.17	0.44
3:N:949:ILE:HG23	3:N:1020:LEU:HD13	1.99	0.44
3:N:1209:LEU:HD12	3:N:1209:LEU:HA	1.79	0.44
3:N:1234:THR:C	3:N:1236:LEU:N	2.75	0.44
3:N:1483:PHE:N	3:N:1483:PHE:CD1	2.84	0.44
5:P:96:LEU:O	5:P:97:GLU:C	2.59	0.44
5:P:398:ARG:HG2	5:P:398:ARG:NH1	2.32	0.44
1:A:214:ALA:C	1:A:216:GLU:N	2.75	0.44
1:A:217:ILE:O	1:A:220:GLU:HB3	2.16	0.44
1:B:229:GLN:HE21	1:B:229:GLN:HB2	1.47	0.44
2:C:86:LYS:CG	2:C:813:VAL:HG12	2.46	0.44
2:C:97:ARG:NH2	2:C:109:LYS:NZ	2.65	0.44
2:C:217:LEU:HB2	2:C:311:PHE:CZ	2.53	0.44
2:C:385:PHE:C	2:C:387:SER:N	2.75	0.44
2:C:923:GLU:CD	2:C:927:GLY:HA2	2.43	0.44
3:D:34:TYR:C	3:D:36:THR:N	2.75	0.44
3:D:119:SER:H	3:D:123:LEU:CD1	2.29	0.44
3:D:127:LEU:HD12	3:D:127:LEU:O	2.18	0.44
3:D:191:LEU:HD12	3:D:211:VAL:CG1	2.47	0.44
3:D:530:VAL:HG22	3:D:536:ALA:HB2	1.98	0.44
3:D:540:LEU:CD1	3:D:606:ILE:HD11	2.44	0.44
3:D:736:PHE:CD1	3:D:736:PHE:N	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:881:LEU:O	3:D:882:PHE:C	2.58	0.44
3:D:1082:ALA:O	3:D:1086:LEU:HD13	2.18	0.44
3:D:1094:LEU:O	3:D:1097:LYS:N	2.50	0.44
3:D:1207:TYR:HB3	3:D:1208:ASP:H	1.57	0.44
4:E:9:LEU:HD22	4:E:19:LEU:HD11	1.98	0.44
4:E:23:VAL:HG21	4:E:65:MET:SD	2.57	0.44
5:F:262:VAL:O	5:F:265:VAL:HB	2.17	0.44
1:L:201:THR:O	1:L:203:GLY:N	2.49	0.44
2:M:144:PRO:O	2:M:276:LYS:NZ	2.50	0.44
2:M:244:PRO:HG2	2:M:245:GLY:H	1.82	0.44
2:M:374:ASN:ND2	2:M:377:PRO:HD3	2.32	0.44
2:M:433:THR:O	2:M:434:HIS:C	2.59	0.44
2:M:839:LEU:CD2	2:M:849:VAL:HG22	2.46	0.44
2:M:971:LYS:NZ	3:N:950:GLY:HA3	2.31	0.44
2:M:979:THR:HG23	2:M:981:GLU:HB2	1.98	0.44
3:N:97:THR:HG21	3:N:571:LYS:CD	2.46	0.44
3:N:504:ASP:C	3:N:506:GLY:H	2.24	0.44
3:N:756:GLN:O	3:N:760:ARG:HG2	2.17	0.44
3:N:931:LEU:C	3:N:933:ALA:N	2.74	0.44
3:N:975:GLU:OE2	3:N:988:ARG:NH2	2.49	0.44
3:N:1166:LEU:HB2	3:N:1170:ASP:HB2	1.99	0.44
3:N:1311:LEU:HD23	3:N:1311:LEU:N	2.22	0.44
4:O:22:VAL:HG11	4:O:68:LEU:CD2	2.44	0.44
4:O:23:VAL:HG13	4:O:64:ALA:CB	2.48	0.44
5:P:163:LEU:HD13	5:P:174:LEU:CD2	2.46	0.44
1:A:14:ARG:HH21	1:A:22:GLU:CB	2.30	0.44
1:A:65:PHE:HD2	2:C:628:PHE:CE2	2.35	0.44
2:C:664:GLY:C	2:C:665:PHE:HD2	2.26	0.44
3:D:504:ASP:OD1	3:D:505:SER:N	2.44	0.44
3:D:568:ARG:CA	3:D:571:LYS:HZ2	2.29	0.44
3:D:583:ASP:O	3:D:586:ARG:HG3	2.17	0.44
3:D:729:HIS:CE1	3:D:730:PRO:HG2	2.52	0.44
3:D:814:ALA:HB1	3:D:818:ARG:HH21	1.82	0.44
3:D:936:TYR:C	3:D:936:TYR:CD2	2.95	0.44
3:D:1263:PHE:O	3:D:1424:VAL:HB	2.17	0.44
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.81	0.44
3:D:1341:PRO:C	3:D:1343:ALA:N	2.73	0.44
5:F:173:TYR:O	5:F:176:ILE:HB	2.16	0.44
1:K:20:TYR:CG	1:K:21:GLY:N	2.85	0.44
1:K:210:ALA:O	1:K:211:LEU:C	2.59	0.44
1:L:66:SER:C	1:L:75:VAL:HG23	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:111:ALA:HB3	1:L:125:PRO:O	2.17	0.44
1:L:124:ASN:OD1	1:L:127:LEU:HB2	2.17	0.44
2:M:110:GLU:HB3	2:M:368:THR:HG22	2.00	0.44
2:M:346:VAL:O	2:M:349:ALA:HB3	2.16	0.44
2:M:512:ARG:HB3	2:M:523:ILE:CG1	2.47	0.44
2:M:700:TYR:N	2:M:700:TYR:CD1	2.85	0.44
2:M:1031:ARG:HH21	3:N:622:ARG:CZ	2.30	0.44
2:M:1044:GLY:C	3:N:762:GLN:HE22	2.25	0.44
2:M:1096:ALA:O	2:M:1097:LEU:C	2.60	0.44
2:M:1103:ASP:CG	2:M:1104:GLU:H	2.25	0.44
3:N:176:ASP:O	3:N:179:VAL:HG23	2.16	0.44
3:N:543:LEU:HD21	3:N:600:LEU:HB2	1.98	0.44
3:N:559:ALA:C	3:N:561:GLY:H	2.26	0.44
3:N:564:GLU:O	3:N:567:ILE:HG13	2.17	0.44
3:N:618:LEU:HA	3:N:618:LEU:HD23	1.74	0.44
3:N:653:PHE:HE2	3:N:698:LYS:HD3	1.83	0.44
3:N:958:GLU:HG3	3:N:961:LYS:HE2	2.00	0.44
3:N:1026:SER:O	3:N:1027:GLY:C	2.60	0.44
3:N:1113:GLY:O	3:N:1114:THR:O	2.35	0.44
3:N:1141:GLU:OE2	3:N:1168:MET:HE2	2.17	0.44
3:N:1189:ARG:HH12	3:N:1204:CYS:CA	2.30	0.44
3:N:1336:LEU:HD22	3:N:1421:LEU:CB	2.47	0.44
3:N:1378:TYR:HB2	3:N:1422:MET:SD	2.57	0.44
3:N:1457:ASP:OD1	3:N:1458:GLU:O	2.36	0.44
4:O:41:GLU:O	4:O:43:GLU:N	2.50	0.44
5:P:123:ASP:HB3	5:P:125:ASP:OD2	2.17	0.44
5:P:167:PRO:HD2	5:P:170:HIS:HD2	1.82	0.44
5:P:294:ALA:O	5:P:295:MET:C	2.60	0.44
1:A:42:ARG:HH22	2:C:857:ASP:HB3	1.82	0.44
1:A:190:THR:O	1:A:192:LEU:N	2.45	0.44
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.98	0.44
3:D:104:PHE:CD2	3:D:104:PHE:N	2.86	0.44
3:D:207:PHE:HB3	3:D:395:VAL:CG2	2.47	0.44
3:D:710:ARG:NH1	3:D:1210:SER:OG	2.50	0.44
3:D:791:TYR:O	3:D:792:ILE:C	2.61	0.44
3:D:899:LEU:CD1	3:D:899:LEU:N	2.79	0.44
3:D:930:LEU:O	3:D:933:ALA:HB3	2.17	0.44
5:F:122:LEU:HD23	5:F:159:ILE:HG23	1.98	0.44
5:F:220:LEU:HD23	5:F:220:LEU:C	2.42	0.44
1:K:219:ARG:HH22	1:K:220:GLU:CG	2.28	0.44
2:M:100:LEU:HD12	2:M:100:LEU:C	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:139:GLN:HE22	2:M:414:GLY:CA	2.28	0.44
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.46	0.44
2:M:469:THR:OG1	2:M:470:PRO:HD2	2.17	0.44
2:M:499:ALA:O	2:M:501:THR:N	2.50	0.44
2:M:515:ALA:HB3	2:M:524:VAL:CG1	2.48	0.44
2:M:959:PRO:O	2:M:960:GLU:O	2.35	0.44
2:M:1044:GLY:H	4:O:17:TYR:HE1	1.65	0.44
3:N:119:SER:O	3:N:121:THR:N	2.50	0.44
3:N:717:GLN:NE2	3:N:760:ARG:HH21	2.15	0.44
3:N:940:THR:C	3:N:942:SER:N	2.72	0.44
5:P:398:ARG:HA	5:P:401:GLU:HB3	1.99	0.44
1:A:56:VAL:HG12	1:A:57:TYR:N	2.32	0.44
1:A:152:PRO:CB	1:A:154:GLU:OE1	2.63	0.44
1:B:98:THR:HA	1:B:143:ARG:HA	1.99	0.44
1:B:176:ARG:HG2	1:B:200:TRP:HB2	1.99	0.44
2:C:281:LEU:HD12	2:C:305:PRO:O	2.17	0.44
2:C:345:ARG:CB	2:C:345:ARG:HH11	2.30	0.44
2:C:516:ARG:NH2	3:D:1068:LEU:CB	2.80	0.44
2:C:601:GLY:HA3	2:C:614:ARG:O	2.17	0.44
2:C:937:ASP:HB3	2:C:939:ARG:H	1.83	0.44
2:C:945:ARG:O	2:C:948:GLU:HG2	2.17	0.44
3:D:12:LEU:HD23	3:D:12:LEU:HA	1.76	0.44
3:D:119:SER:H	3:D:123:LEU:HD12	1.81	0.44
3:D:172:PRO:CG	3:D:178:LEU:HD22	2.47	0.44
3:D:233:LYS:HZ3	3:D:237:LYS:HD2	1.83	0.44
3:D:544:TYR:CE1	3:D:581:LEU:HD13	2.52	0.44
3:D:879:ARG:CD	3:D:902:LEU:O	2.64	0.44
3:D:974:ILE:HD13	3:D:992:ILE:HG12	2.00	0.44
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.17	0.44
3:D:1109:GLU:CD	3:D:1109:GLU:C	2.85	0.44
3:D:1385:GLY:HA3	3:D:1413:THR:HG21	1.99	0.44
3:D:1441:GLN:NE2	3:D:1441:GLN:HA	2.31	0.44
4:E:43:GLU:HG3	4:E:44:GLU:H	1.82	0.44
5:F:316:SER:HB3	5:F:319:THR:OG1	2.18	0.44
1:K:150:TYR:CD2	1:K:150:TYR:C	2.95	0.44
2:M:147:TYR:C	2:M:148:PHE:CD1	2.96	0.44
2:M:486:MET:HG2	2:M:490:GLU:HB3	2.00	0.44
2:M:841:ASN:ND2	2:M:842:ARG:N	2.65	0.44
2:M:927:GLY:HA2	2:M:930:LYS:HZ3	1.82	0.44
2:M:1023:GLY:C	2:M:1024:LYS:HG3	2.41	0.44
3:N:87:ARG:HB3	3:N:523:ASP:CG	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:245:LEU:HD11	3:N:249:TYR:HB2	1.99	0.44
3:N:558:LEU:HD13	5:P:145:PRO:HA	1.99	0.44
3:N:570:GLU:OE2	3:N:573:MET:HE2	2.16	0.44
3:N:683:ILE:HG23	3:N:687:VAL:HG21	1.99	0.44
3:N:1353:GLN:O	3:N:1354:LYS:C	2.59	0.44
3:N:1472:ILE:HA	3:N:1473:PRO:HD3	1.74	0.44
1:A:42:ARG:NH2	2:C:857:ASP:HB3	2.32	0.44
1:A:153:ALA:HB2	1:A:168:ASP:N	2.31	0.44
1:A:200:TRP:C	1:A:201:THR:HG1	2.19	0.44
2:C:517:ARG:O	2:C:518:LYS:C	2.61	0.44
2:C:694:LEU:O	2:C:699:PHE:HB2	2.18	0.44
2:C:777:ILE:HD13	5:F:408:LEU:HD21	1.99	0.44
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.31	0.44
2:C:1094:ALA:HB3	3:D:603:LEU:HD22	1.96	0.44
3:D:210:ARG:HD2	3:D:398:ALA:CB	2.30	0.44
3:D:219:GLU:O	3:D:369:ALA:O	2.36	0.44
3:D:897:TRP:HZ2	3:D:902:LEU:HD11	1.77	0.44
4:E:31:LEU:O	4:E:32:ARG:C	2.60	0.44
5:F:386:VAL:C	5:F:388:ALA:N	2.75	0.44
1:L:7:LYS:O	1:L:7:LYS:HG2	2.18	0.44
1:L:153:ALA:HB2	1:L:168:ASP:CA	2.47	0.44
1:L:157:GLY:O	1:L:159:LYS:HE3	2.18	0.44
1:L:180:GLN:HB3	1:L:196:THR:HG23	1.99	0.44
2:M:72:ARG:HG3	2:M:72:ARG:NH1	2.32	0.44
2:M:136:ILE:HA	2:M:391:LEU:O	2.17	0.44
2:M:216:GLU:CD	2:M:216:GLU:H	2.25	0.44
2:M:285:LEU:HD21	2:M:289:THR:HA	2.00	0.44
2:M:427:VAL:O	2:M:429:ASP:N	2.50	0.44
2:M:544:THR:HG22	2:M:550:LEU:CD2	2.47	0.44
2:M:548:PRO:HA	2:M:581:THR:CG2	2.47	0.44
2:M:674:VAL:HG21	2:M:992:MET:HE1	1.99	0.44
2:M:674:VAL:CG1	2:M:992:MET:HE3	2.42	0.44
3:N:137:PRO:HG2	3:N:453:ASP:HB3	2.00	0.44
3:N:562:ALA:HA	3:N:563:PRO:HD3	1.91	0.44
3:N:644:LEU:HA	3:N:645:PRO:HD3	1.69	0.44
3:N:976:GLN:HA	3:N:979:GLU:HB2	1.99	0.44
3:N:1116:ASN:ND2	3:N:1116:ASN:O	2.51	0.44
3:N:1396:GLU:HG2	3:N:1399:ASP:OD2	2.18	0.44
4:O:9:LEU:C	4:O:11:GLY:N	2.75	0.44
5:P:102:LEU:HD22	5:P:183:ALA:HA	1.99	0.44
5:P:217:ASN:O	5:P:220:LEU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:35:PRO:C	2:C:37:GLU:N	2.75	0.44
2:C:129:ILE:N	2:C:129:ILE:CD1	2.80	0.44
2:C:211:LEU:HD11	2:C:308:ARG:HB2	2.00	0.44
2:C:226:VAL:HG13	2:C:227:PHE:CD1	2.53	0.44
2:C:345:ARG:HB3	2:C:345:ARG:HH11	1.82	0.44
2:C:379:GLU:O	2:C:383:ARG:HB3	2.18	0.44
2:C:490:GLU:O	2:C:493:ARG:HB2	2.18	0.44
2:C:560:MET:HE1	2:C:846:LYS:HD2	1.99	0.44
2:C:693:GLU:OE1	2:C:693:GLU:HA	2.17	0.44
2:C:843:HIS:CD2	2:C:887:GLU:OE2	2.71	0.44
2:C:975:TYR:N	2:C:975:TYR:CD1	2.86	0.44
2:C:1059:ASP:O	2:C:1060:ILE:C	2.61	0.44
3:D:67:ARG:HA	3:D:67:ARG:HE	1.81	0.44
3:D:215:TYR:H	3:D:390:PRO:HD2	1.83	0.44
3:D:216:VAL:HG12	3:D:217:LYS:N	2.31	0.44
3:D:240:GLU:O	3:D:244:GLU:N	2.51	0.44
3:D:652:LEU:C	3:D:654:LYS:H	2.25	0.44
3:D:670:VAL:O	3:D:674:ARG:HG3	2.17	0.44
3:D:702:LEU:O	3:D:736:PHE:HE2	2.00	0.44
3:D:733:CYS:O	3:D:736:PHE:O	2.35	0.44
3:D:868:TYR:HB2	3:D:873:LEU:HD12	1.99	0.44
3:D:989:TYR:CZ	3:D:993:LEU:HD11	2.53	0.44
3:D:1027:GLY:O	3:D:1028:ALA:C	2.61	0.44
3:D:1113:GLY:O	3:D:1114:THR:C	2.59	0.44
3:D:1258:ARG:O	3:D:1261:GLU:N	2.50	0.44
1:L:77:GLU:CB	3:N:872:ARG:HH21	2.31	0.44
1:L:167:VAL:HG12	1:L:168:ASP:N	2.32	0.44
2:M:247:PRO:HA	2:M:248:PRO:HD3	1.85	0.44
2:M:605:LYS:HD2	2:M:610:ARG:NH1	2.33	0.44
2:M:671:ASN:OD1	2:M:900:ARG:NH2	2.51	0.44
2:M:777:ILE:C	2:M:778:PHE:HD1	2.26	0.44
3:N:212:ARG:HB3	3:N:394:LEU:CD1	2.41	0.44
3:N:569:ASN:HD22	3:N:569:ASN:HA	1.55	0.44
3:N:585:GLY:C	3:N:587:ARG:N	2.76	0.44
3:N:776:GLU:HA	3:N:777:PRO:HD3	1.90	0.44
3:N:936:TYR:C	3:N:938:GLY:N	2.73	0.44
3:N:1147:ARG:HB2	3:N:1188:VAL:HG21	2.00	0.44
3:N:1336:LEU:CA	3:N:1344:VAL:HG21	2.47	0.44
3:N:1342:GLU:CD	3:N:1342:GLU:N	2.76	0.44
5:P:282:LEU:HD12	5:P:284:ARG:HD2	1.99	0.44
5:P:363:GLU:O	5:P:364:ARG:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:ARG:O	1:A:45:LEU:HD12	2.17	0.44
1:A:77:GLU:CD	2:C:640:ARG:CZ	2.91	0.44
2:C:196:LEU:HD23	2:C:197:LEU:N	2.32	0.44
2:C:405:ARG:HG2	2:C:405:ARG:O	2.17	0.44
2:C:468:ARG:CZ	2:C:487:THR:OG1	2.66	0.44
2:C:649:VAL:HG11	2:C:655:LEU:HD21	2.00	0.44
2:C:1013:TYR:OH	3:D:624:ASP:OD1	2.32	0.44
3:D:97:THR:O	3:D:98:PRO:O	2.36	0.44
3:D:563:PRO:HD3	5:F:188:ILE:HG21	2.00	0.44
3:D:1081:GLY:C	3:D:1083:ASP:N	2.72	0.44
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.47	0.44
3:D:1112:CYS:HB2	3:D:1195:GLN:OE1	2.18	0.44
3:D:1128:VAL:O	3:D:1129:THR:CG2	2.65	0.44
3:D:1141:GLU:HG2	3:D:1168:MET:HE1	2.00	0.44
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.98	0.44
3:D:1232:PRO:C	3:D:1234:THR:N	2.75	0.44
2:M:104:ASP:HB2	2:M:105:THR:H	1.64	0.44
2:M:135:VAL:HG12	2:M:136:ILE:N	2.32	0.44
2:M:486:MET:HE3	2:M:491:GLU:CB	2.47	0.44
2:M:625:LEU:O	2:M:627:ARG:N	2.50	0.44
2:M:707:ARG:CZ	2:M:824:ARG:HH12	2.31	0.44
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.98	0.44
2:M:874:LEU:C	2:M:876:VAL:H	2.26	0.44
2:M:901:TYR:CE2	2:M:917:LEU:HD12	2.48	0.44
2:M:1014:SER:HB3	2:M:1017:THR:HG23	2.00	0.44
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.52	0.44
3:N:28:LYS:HA	3:N:29:PRO:HD3	1.68	0.44
3:N:65:ARG:CG	3:N:66:GLN:N	2.80	0.44
3:N:79:GLU:HG2	3:N:80:VAL:N	2.33	0.44
3:N:387:LEU:HD23	3:N:388:HIS:N	2.33	0.44
3:N:656:PHE:HZ	3:N:751:LEU:HD23	1.83	0.44
3:N:813:LEU:HD12	3:N:813:LEU:C	2.43	0.44
3:N:878:GLY:C	3:N:880:ILE:H	2.25	0.44
3:N:1155:VAL:O	3:N:1182:GLU:HG2	2.18	0.44
3:N:1200:VAL:HG22	3:N:1373:ARG:HH12	1.83	0.44
4:O:41:GLU:O	4:O:42:PRO:C	2.61	0.44
5:P:160:ASP:OD1	5:P:164:LYS:HE3	2.18	0.44
1:A:51:THR:HG21	1:A:89:PHE:CE2	2.53	0.44
1:A:158:ILE:C	1:A:158:ILE:CD1	2.88	0.44
1:A:221:HIS:ND1	1:A:224:TYR:HE2	2.15	0.44
2:C:334:ARG:O	2:C:335:THR:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:600:ASP:OD1	2:C:651:LYS:N	2.43	0.44
2:C:630:ARG:HH21	2:C:707:ARG:H	1.65	0.44
2:C:923:GLU:CD	2:C:927:GLY:HA3	2.43	0.44
2:C:1102:LEU:HD12	2:C:1102:LEU:N	2.33	0.44
3:D:445:ARG:NH1	3:D:445:ARG:HG2	2.33	0.44
3:D:651:GLU:HA	3:D:654:LYS:HE3	1.99	0.44
3:D:832:ARG:HG2	3:D:832:ARG:HH11	1.83	0.44
3:D:899:LEU:HD22	3:D:899:LEU:C	2.43	0.44
3:D:910:SER:O	3:D:913:ASP:CB	2.63	0.44
3:D:1344:VAL:HG21	3:D:1421:LEU:HD13	2.00	0.44
1:K:123:MET:C	1:K:125:PRO:HD3	2.42	0.44
1:K:189:ARG:CZ	1:L:155:LYS:HE2	2.47	0.44
1:L:111:ALA:O	1:L:114:PHE:HD1	2.00	0.44
2:M:43:GLY:O	2:M:44:ILE:C	2.59	0.44
2:M:123:GLU:OE2	2:M:592:LEU:HD11	2.17	0.44
2:M:190:LYS:HB2	2:M:190:LYS:NZ	2.33	0.44
2:M:193:LEU:HD12	2:M:197:LEU:HD11	1.99	0.44
2:M:276:LYS:HE3	2:M:276:LYS:HB2	1.86	0.44
2:M:432:ARG:NH2	3:N:1047:LYS:NZ	2.63	0.44
2:M:605:LYS:CD	2:M:610:ARG:HH22	2.30	0.44
2:M:616:GLU:C	2:M:618:GLY:N	2.74	0.44
2:M:1044:GLY:HA3	3:N:762:GLN:HE22	1.81	0.44
2:M:1090:LYS:HD3	2:M:1090:LYS:HA	1.75	0.44
3:N:47:GLU:HB2	3:N:78:VAL:HG22	1.99	0.44
3:N:882:PHE:O	3:N:883:ALA:C	2.61	0.44
3:N:1127:GLU:C	3:N:1129:THR:N	2.76	0.44
3:N:1384:PRO:CG	3:N:1389:LEU:N	2.80	0.44
3:N:1481:VAL:HG13	4:O:18:ARG:HE	1.83	0.44
3:N:1495:ILE:HD13	4:O:88:GLU:HG3	2.00	0.44
1:A:40:LEU:O	1:A:42:ARG:N	2.51	0.43
1:A:59:GLU:OE1	1:A:59:GLU:HA	2.17	0.43
1:A:110:LYS:N	1:A:113:ASP:OD2	2.40	0.43
1:A:180:GLN:NE2	2:C:934:PHE:CB	2.81	0.43
1:B:89:PHE:HZ	1:B:144:VAL:CG1	2.30	0.43
2:C:479:VAL:HB	2:C:506:ASN:HA	2.00	0.43
3:D:10:ILE:HD12	3:D:1434:TRP:CE2	2.52	0.43
3:D:217:LYS:HA	3:D:373:PRO:O	2.18	0.43
3:D:729:HIS:HE1	3:D:731:LEU:CG	2.29	0.43
3:D:1200:VAL:HG12	3:D:1201:CYS:N	2.33	0.43
5:F:266:GLU:C	5:F:268:ILE:N	2.74	0.43
1:K:62:LEU:HD12	1:K:62:LEU:N	2.29	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:56:VAL:HB	1:L:165:ILE:CG1	2.47	0.43
2:M:144:PRO:HA	2:M:163:ILE:HG23	1.98	0.43
2:M:420:ARG:HD2	2:M:420:ARG:N	2.18	0.43
2:M:939:ARG:C	2:M:941:VAL:H	2.26	0.43
3:N:409:VAL:O	3:N:411:THR:N	2.51	0.43
3:N:787:LEU:HG	3:N:787:LEU:O	2.16	0.43
3:N:908:LYS:HB3	3:N:1027:GLY:HA3	1.99	0.43
3:N:1098:LEU:HD12	3:N:1098:LEU:N	2.33	0.43
3:N:1496:GLU:HG3	3:N:1500:LYS:HE3	1.99	0.43
4:O:41:GLU:H	4:O:42:PRO:CD	2.30	0.43
5:P:256:ARG:HD3	5:P:260:ILE:CG2	2.48	0.43
1:A:24:VAL:HG12	1:A:25:LEU:H	1.82	0.43
1:B:115:LEU:HA	1:B:116:PRO:HD3	1.84	0.43
2:C:243:ARG:HA	2:C:244:PRO:HD3	1.40	0.43
2:C:711:GLU:HG2	2:C:822:VAL:CG1	2.37	0.43
2:C:731:GLU:CD	2:C:734:LEU:HB2	2.43	0.43
2:C:987:ILE:O	2:C:987:ILE:HG22	2.17	0.43
3:D:65:ARG:HG3	3:D:66:GLN:HG2	1.99	0.43
3:D:136:ASP:O	3:D:137:PRO:O	2.36	0.43
3:D:205:TYR:CD2	3:D:393:ILE:HG12	2.53	0.43
3:D:579:ASP:O	3:D:582:LEU:N	2.51	0.43
3:D:728:LEU:HG	3:D:729:HIS:H	1.82	0.43
3:D:932:ASP:OD1	3:D:935:LYS:CD	2.57	0.43
3:D:945:SER:OG	3:D:947:ILE:CG2	2.53	0.43
3:D:1031:ASN:OD1	3:D:1031:ASN:C	2.60	0.43
3:D:1139:ASP:CG	3:D:1357:ARG:HD3	2.42	0.43
5:F:88:ILE:C	5:F:90:GLN:N	2.76	0.43
1:K:127:LEU:O	1:K:129:ILE:HD13	2.17	0.43
1:K:184:THR:O	1:K:192:LEU:HB2	2.19	0.43
1:K:218:LEU:HD23	1:L:222:LEU:HD21	2.00	0.43
1:L:78:ILE:HG23	1:L:129:ILE:HG22	2.00	0.43
2:M:21:ILE:O	2:M:21:ILE:HG22	2.18	0.43
2:M:30:LEU:HB3	2:M:44:ILE:HD13	1.99	0.43
2:M:178:PRO:C	2:M:180:GLY:H	2.26	0.43
2:M:246:ASP:HA	2:M:247:PRO:HD3	1.80	0.43
2:M:276:LYS:CG	2:M:280:LYS:NZ	2.81	0.43
2:M:313:LEU:CD1	2:M:321:GLU:O	2.66	0.43
2:M:501:THR:HG22	2:M:513:VAL:CG1	2.48	0.43
2:M:657:ASP:OD1	2:M:661:SER:OG	2.34	0.43
2:M:1048:THR:HG21	3:N:759:ALA:HB2	2.00	0.43
2:M:1090:LYS:HE3	3:N:88:TYR:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:116:LEU:CD2	3:N:468:LEU:HD21	2.48	0.43
3:N:158:TYR:O	3:N:161:LEU:HB2	2.19	0.43
3:N:616:GLN:OE1	5:P:326:ASP:O	2.36	0.43
3:N:840:LYS:CD	3:N:841:TYR:CZ	3.01	0.43
3:N:984:THR:CG2	3:N:987:GLU:HG3	2.36	0.43
3:N:1291:SER:HB3	3:N:1293:PHE:CE1	2.50	0.43
5:P:158:GLU:O	5:P:161:GLN:HB2	2.17	0.43
1:A:183:ASP:HA	1:A:192:LEU:O	2.18	0.43
2:C:70:GLU:OE1	2:C:97:ARG:HD3	2.18	0.43
2:C:140:ILE:HG12	2:C:333:ILE:HG13	2.00	0.43
2:C:337:GLY:O	2:C:338:GLU:C	2.60	0.43
2:C:742:VAL:HG12	2:C:743:VAL:N	2.33	0.43
2:C:966:LEU:HD21	2:C:986:PRO:HG2	1.98	0.43
2:C:1058:ASP:HB2	3:D:621:LYS:HE3	2.00	0.43
2:C:1062:GLY:O	2:C:1063:ARG:C	2.61	0.43
3:D:32:ILE:CD1	3:D:527:MET:HG2	2.27	0.43
3:D:124:GLU:HB3	3:D:128:TYR:CD1	2.53	0.43
3:D:179:VAL:HG22	3:D:389:GLU:HG3	2.00	0.43
3:D:389:GLU:N	3:D:389:GLU:OE1	2.47	0.43
3:D:696:HIS:CD2	4:E:48:MET:HG3	2.52	0.43
3:D:891:GLU:O	3:D:892:ASP:C	2.61	0.43
3:D:976:GLN:C	3:D:978:TYR:N	2.74	0.43
3:D:1042:ARG:HE	3:D:1042:ARG:HB2	1.56	0.43
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	2.00	0.43
3:D:1492:LEU:HD13	3:D:1492:LEU:O	2.19	0.43
3:D:1496:GLU:O	3:D:1499:ARG:N	2.51	0.43
4:E:24:ALA:O	4:E:27:ALA:HB3	2.17	0.43
5:F:190:ALA:C	5:F:192:LEU:H	2.27	0.43
1:K:189:ARG:NH1	1:L:155:LYS:HZ3	2.11	0.43
1:L:94:LEU:O	1:L:146:ARG:HD2	2.18	0.43
2:M:43:GLY:O	2:M:46:ALA:HB3	2.19	0.43
2:M:140:ILE:HG12	2:M:333:ILE:HG13	2.01	0.43
2:M:520:GLU:O	2:M:522:VAL:HG23	2.17	0.43
2:M:537:LYS:C	2:M:539:VAL:N	2.77	0.43
2:M:906:PHE:HZ	3:N:1070:TYR:CB	2.31	0.43
2:M:1051:GLU:C	2:M:1053:LEU:N	2.76	0.43
3:N:161:LEU:O	3:N:449:SER:HB2	2.17	0.43
3:N:676:MET:HE2	3:N:684:LYS:HG3	2.00	0.43
3:N:826:PRO:HD2	3:N:829:VAL:HG11	1.99	0.43
3:N:868:TYR:O	3:N:870:GLY:N	2.51	0.43
3:N:1486:VAL:HG21	4:O:22:VAL:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:406:ARG:CG	5:P:409:LYS:HE2	2.47	0.43
1:A:97:VAL:HG12	1:A:98:THR:N	2.33	0.43
2:C:143:SER:O	2:C:144:PRO:C	2.61	0.43
2:C:313:LEU:C	2:C:315:ALA:H	2.27	0.43
2:C:317:VAL:O	2:C:317:VAL:HG12	2.18	0.43
2:C:418:LEU:HD22	2:C:418:LEU:N	2.34	0.43
2:C:513:VAL:O	2:C:524:VAL:O	2.36	0.43
2:C:516:ARG:HH11	2:C:521:PRO:HA	1.82	0.43
2:C:525:SER:OG	2:C:528:GLU:HG3	2.18	0.43
2:C:539:VAL:HG21	3:D:1067:VAL:CG1	2.48	0.43
2:C:783:ARG:HD3	2:C:785:VAL:HG11	2.00	0.43
2:C:923:GLU:C	2:C:927:GLY:H	2.27	0.43
2:C:1046:ALA:CB	3:D:1472:ILE:HB	2.49	0.43
2:C:1052:MET:SD	3:D:623:VAL:HG22	2.59	0.43
3:D:104:PHE:N	3:D:104:PHE:HD2	2.16	0.43
3:D:133:ILE:CG2	3:D:454:ALA:HB1	2.34	0.43
3:D:177:ALA:O	3:D:179:VAL:N	2.51	0.43
3:D:910:SER:O	3:D:911:LEU:C	2.60	0.43
3:D:947:ILE:O	3:D:947:ILE:CG1	2.67	0.43
3:D:1071:PHE:O	3:D:1072:ILE:C	2.61	0.43
3:D:1231:GLU:O	3:D:1232:PRO:C	2.61	0.43
3:D:1405:GLU:O	3:D:1409:ALA:O	2.36	0.43
3:D:1495:ILE:O	3:D:1498:ALA:HB3	2.19	0.43
5:F:93:LEU:CD1	5:F:187:LEU:HA	2.48	0.43
1:K:134:GLU:HA	1:K:134:GLU:OE2	2.18	0.43
1:L:79:ILE:O	1:L:83:LYS:HG3	2.18	0.43
1:L:111:ALA:CB	1:L:127:LEU:HB3	2.45	0.43
1:L:143:ARG:HH11	1:L:143:ARG:HG3	1.83	0.43
2:M:106:GLY:O	2:M:107:LEU:HD23	2.19	0.43
2:M:643:VAL:HG21	2:M:655:LEU:HA	2.00	0.43
2:M:988:VAL:C	2:M:989:VAL:CG1	2.92	0.43
2:M:1067:TYR:C	2:M:1069:ALA:N	2.75	0.43
2:M:1086:ARG:HD2	3:N:88:TYR:CZ	2.53	0.43
3:N:55:ASP:OD2	3:N:82:LYS:CE	2.66	0.43
3:N:462:GLN:HA	3:N:513:ILE:HD12	1.99	0.43
3:N:519:VAL:O	3:N:520:LEU:C	2.61	0.43
3:N:869:MET:SD	3:N:894:LYS:HE3	2.58	0.43
3:N:984:THR:C	3:N:986:ARG:N	2.74	0.43
3:N:1058:ARG:CG	3:N:1058:ARG:NH1	2.77	0.43
3:N:1109:GLU:CD	3:N:1110:ALA:N	2.76	0.43
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1366:LYS:O	3:N:1367:HIS:C	2.61	0.43
1:A:203:GLY:C	1:A:205:VAL:N	2.77	0.43
1:B:13:VAL:CG1	1:B:14:ARG:N	2.81	0.43
1:B:123:MET:O	1:B:125:PRO:HD3	2.18	0.43
2:C:266:ARG:O	2:C:267:TYR:C	2.61	0.43
2:C:575:GLN:C	2:C:576:ALA:O	2.58	0.43
2:C:577:PRO:HG3	2:C:993:PHE:CD1	2.54	0.43
2:C:744:ARG:O	2:C:744:ARG:HG3	2.17	0.43
3:D:172:PRO:HA	3:D:173:PRO:HD3	1.68	0.43
3:D:175:VAL:O	3:D:179:VAL:HG21	2.18	0.43
3:D:567:ILE:HG22	3:D:571:LYS:HE3	2.00	0.43
3:D:581:LEU:HD12	3:D:603:LEU:HD11	2.01	0.43
3:D:705:ALA:CB	3:D:706:PRO:CD	2.80	0.43
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.18	0.43
4:E:53:GLY:C	4:E:55:PHE:N	2.75	0.43
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.72	0.43
5:F:396:ARG:HA	5:F:399:GLN:CB	2.48	0.43
1:K:168:ASP:CG	2:M:832:LYS:NZ	2.77	0.43
2:M:100:LEU:HD21	2:M:368:THR:OG1	2.19	0.43
2:M:720:GLU:HG2	2:M:760:SER:HB3	1.99	0.43
2:M:724:ARG:HG2	2:M:724:ARG:O	2.17	0.43
2:M:752:GLY:H	2:M:792:VAL:HB	1.84	0.43
2:M:1089:VAL:HG13	2:M:1099:VAL:HG23	2.00	0.43
3:N:65:ARG:HD3	3:N:66:GLN:H	1.83	0.43
3:N:388:HIS:HB2	5:P:94:LEU:CD2	2.41	0.43
3:N:699:VAL:O	3:N:699:VAL:HG23	2.18	0.43
3:N:711:LEU:O	3:N:713:ILE:N	2.51	0.43
3:N:886:VAL:C	3:N:888:GLU:N	2.77	0.43
3:N:1130:ARG:HG2	3:N:1130:ARG:HH11	1.83	0.43
3:N:1147:ARG:O	3:N:1166:LEU:CD2	2.66	0.43
3:N:1149:LEU:CD1	3:N:1160:LEU:HB3	2.49	0.43
3:N:1397:LYS:NZ	3:N:1432:LYS:HB3	2.33	0.43
3:N:1413:THR:O	3:N:1413:THR:HG22	2.18	0.43
5:P:88:ILE:O	5:P:92:PRO:HD3	2.18	0.43
1:A:227:ASN:ND2	1:A:227:ASN:O	2.52	0.43
1:B:16:GLN:N	1:B:20:TYR:O	2.49	0.43
2:C:21:ILE:H	2:C:21:ILE:CD1	2.19	0.43
2:C:188:LYS:HD3	2:C:189:ARG:N	2.34	0.43
2:C:273:GLY:H	2:C:288:ARG:NH1	2.16	0.43
2:C:468:ARG:NH2	2:C:487:THR:OG1	2.52	0.43
2:C:535:SER:C	2:C:537:LYS:N	2.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:594:ALA:HB2	2:C:658:GLY:H	1.83	0.43
2:C:916:GLU:O	2:C:919:ALA:HB3	2.18	0.43
2:C:923:GLU:OE1	2:C:927:GLY:CA	2.67	0.43
3:D:23:TYR:O	3:D:24:GLY:O	2.37	0.43
3:D:108:VAL:HB	3:D:109:PRO:CD	2.28	0.43
3:D:245:LEU:HD12	3:D:366:LYS:NZ	2.33	0.43
3:D:898:GLU:HB3	3:D:921:ARG:NH2	2.34	0.43
3:D:1076:GLY:HA2	3:D:1079:LYS:CG	2.38	0.43
3:D:1118:ILE:HD11	3:D:1346:ARG:NE	2.34	0.43
3:D:1379:VAL:CG2	3:D:1395:LEU:HA	2.48	0.43
3:D:1435:LEU:HB2	3:D:1457:ASP:OD2	2.19	0.43
5:F:164:LYS:HA	5:F:171:LYS:HZ2	1.80	0.43
1:L:40:LEU:O	1:L:44:LEU:HB2	2.18	0.43
1:L:74:ASP:CG	1:L:75:VAL:N	2.77	0.43
2:M:78:PHE:CD1	2:M:88:LEU:HD13	2.52	0.43
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.34	0.43
2:M:110:GLU:OE2	2:M:369:PRO:HG3	2.18	0.43
2:M:143:SER:HB3	2:M:332:ARG:HB2	2.00	0.43
2:M:157:ARG:HH11	2:M:157:ARG:HG3	1.82	0.43
2:M:176:VAL:HG12	2:M:182:VAL:CG2	2.45	0.43
2:M:340:MET:SD	2:M:340:MET:O	2.76	0.43
2:M:578:VAL:HG23	2:M:579:VAL:N	2.32	0.43
2:M:620:LEU:HD23	2:M:620:LEU:H	1.84	0.43
2:M:726:ILE:HA	2:M:727:PRO:HD3	1.83	0.43
2:M:743:VAL:HG13	2:M:743:VAL:O	2.18	0.43
2:M:798:GLY:H	2:M:827:VAL:CG1	2.32	0.43
3:N:28:LYS:HB3	3:N:41:ARG:HD2	2.01	0.43
3:N:55:ASP:HA	3:N:82:LYS:HG2	1.99	0.43
3:N:186:VAL:HG21	3:N:213:VAL:CG2	2.49	0.43
3:N:385:VAL:HB	3:N:387:LEU:CD1	2.44	0.43
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.48	0.43
3:N:626:SER:CA	3:N:652:LEU:HD11	2.48	0.43
3:N:636:GLN:C	3:N:637:LEU:O	2.61	0.43
3:N:786:ILE:HG21	3:N:1027:GLY:N	2.33	0.43
3:N:790:TYR:O	3:N:794:GLN:HB2	2.18	0.43
3:N:935:LYS:HE2	3:N:935:LYS:HB3	1.86	0.43
3:N:1114:THR:CG2	3:N:1195:GLN:HB2	2.48	0.43
3:N:1347:TYR:CE1	3:N:1351:GLU:OE2	2.71	0.43
3:N:1415:VAL:O	3:N:1416:ALA:C	2.61	0.43
3:N:1462:LEU:HD23	3:N:1473:PRO:HD2	2.00	0.43
1:A:21:GLY:O	1:A:198:ARG:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:57:TYR:O	1:A:140:MET:HB2	2.19	0.43
1:B:67:THR:HB	1:B:74:ASP:OD1	2.19	0.43
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.19	0.43
2:C:490:GLU:CG	2:C:493:ARG:HH11	2.32	0.43
2:C:583:LEU:O	2:C:584:GLU:C	2.61	0.43
2:C:917:LEU:O	2:C:918:LEU:C	2.59	0.43
3:D:191:LEU:HD12	3:D:211:VAL:HG11	2.01	0.43
3:D:376:GLU:HA	3:D:383:GLY:O	2.18	0.43
3:D:396:VAL:CG1	3:D:397:LYS:N	2.81	0.43
3:D:827:ILE:CG2	3:D:837:GLY:HA3	2.46	0.43
3:D:850:LEU:HD13	3:D:884:ARG:NH2	2.32	0.43
3:D:964:LEU:HD22	3:D:1058:ARG:HH11	1.83	0.43
3:D:1104:GLU:HG3	3:D:1105:ILE:HD13	2.01	0.43
1:L:24:VAL:HG12	1:L:25:LEU:N	2.34	0.43
1:L:74:ASP:CG	1:L:75:VAL:H	2.25	0.43
2:M:192:PRO:C	2:M:194:VAL:N	2.75	0.43
2:M:193:LEU:O	2:M:197:LEU:HD12	2.19	0.43
2:M:564:MET:HG2	2:M:840:ALA:HB3	2.00	0.43
2:M:869:VAL:HG22	2:M:871:LEU:HD13	2.00	0.43
2:M:914:ILE:HD12	2:M:914:ILE:N	2.33	0.43
3:N:122:GLU:HA	3:N:122:GLU:OE1	2.17	0.43
3:N:389:GLU:CD	3:N:389:GLU:N	2.76	0.43
3:N:424:GLY:HA2	3:N:436:GLU:HA	2.00	0.43
3:N:491:LYS:O	3:N:491:LYS:HG2	2.19	0.43
3:N:563:PRO:HG3	5:P:185:GLN:OE1	2.19	0.43
3:N:593:ASN:ND2	5:P:206:GLY:O	2.49	0.43
3:N:661:MET:HG2	3:N:666:ILE:HD12	2.01	0.43
3:N:835:SER:O	3:N:836:VAL:C	2.61	0.43
3:N:940:THR:C	3:N:942:SER:H	2.26	0.43
3:N:1225:ALA:C	3:N:1227:GLN:N	2.74	0.43
3:N:1341:PRO:HG2	3:N:1419:PRO:HG2	2.00	0.43
3:N:1445:HIS:C	3:N:1447:LEU:N	2.75	0.43
3:N:1465:ASN:OD1	3:N:1465:ASN:C	2.62	0.43
3:N:1496:GLU:O	3:N:1496:GLU:OE2	2.36	0.43
4:O:54:LEU:HG	4:O:58:PRO:CB	2.47	0.43
5:P:349:LEU:O	5:P:350:LEU:C	2.60	0.43
1:A:201:THR:CG2	1:A:202:ASP:N	2.81	0.43
2:C:226:VAL:HG22	2:C:230:ARG:NH2	2.34	0.43
2:C:665:PHE:N	2:C:665:PHE:CD2	2.85	0.43
2:C:737:LEU:O	2:C:738:ASP:C	2.60	0.43
2:C:750:LYS:HG3	2:C:751:PRO:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:789:SER:O	2:C:791:ARG:HG2	2.19	0.43
2:C:860:HIS:HE2	2:C:975:TYR:HB2	1.84	0.43
3:D:46:ASP:CG	3:D:47:GLU:N	2.76	0.43
3:D:375:GLU:HB3	3:D:385:VAL:HG13	2.01	0.43
3:D:429:SER:HB2	3:D:432:TYR:O	2.19	0.43
3:D:486:ARG:HA	3:D:489:ARG:CD	2.45	0.43
3:D:528:VAL:HG12	3:D:529:GLN:N	2.33	0.43
3:D:1240:THR:O	3:D:1241:PHE:C	2.62	0.43
5:F:93:LEU:HD11	5:F:102:LEU:CD1	2.48	0.43
2:M:409:ARG:HG2	2:M:410:ILE:N	2.34	0.43
2:M:722:ILE:O	2:M:722:ILE:HG23	2.18	0.43
2:M:759:THR:HG21	2:M:783:ARG:NH1	2.29	0.43
2:M:810:ASP:HB3	2:M:813:VAL:CG2	2.34	0.43
2:M:1044:GLY:C	3:N:762:GLN:NE2	2.76	0.43
3:N:47:GLU:O	3:N:48:ARG:C	2.62	0.43
3:N:536:ALA:HA	5:P:315:VAL:O	2.18	0.43
3:N:1018:ASN:OD1	3:N:1018:ASN:C	2.62	0.43
5:P:88:ILE:O	5:P:91:VAL:N	2.52	0.43
1:A:89:PHE:CD1	1:A:120:VAL:HG22	2.53	0.43
2:C:97:ARG:HH21	2:C:109:LYS:HZ2	1.67	0.43
2:C:462:ASP:CG	2:C:463:GLU:N	2.77	0.43
2:C:507:ARG:O	2:C:508:ILE:C	2.61	0.43
2:C:673:LEU:HA	2:C:990:GLY:O	2.18	0.43
2:C:766:GLU:OE1	3:D:54:LYS:NZ	2.39	0.43
2:C:841:ASN:C	2:C:843:HIS:H	2.27	0.43
2:C:952:LEU:HD12	2:C:969:GLN:CD	2.44	0.43
3:D:9:ARG:HH22	3:D:11:ALA:HB2	1.81	0.43
3:D:163:TYR:OH	3:D:394:LEU:HD21	2.19	0.43
3:D:218:LYS:NZ	3:D:219:GLU:H	2.17	0.43
3:D:584:ASN:H	3:D:602:SER:CB	2.32	0.43
3:D:790:TYR:O	3:D:793:THR:N	2.51	0.43
3:D:911:LEU:O	3:D:913:ASP:C	2.61	0.43
3:D:984:THR:HG22	3:D:987:GLU:HG3	2.01	0.43
3:D:1101:VAL:HG12	3:D:1101:VAL:O	2.18	0.43
3:D:1117:TYR:CD1	3:D:1117:TYR:C	2.96	0.43
3:D:1332:PRO:O	3:D:1333:HIS:C	2.61	0.43
4:E:41:GLU:H	4:E:42:PRO:HD2	1.84	0.43
5:F:213:ILE:O	5:F:216:GLY:N	2.50	0.43
1:K:105:GLY:O	1:K:107:LYS:N	2.52	0.43
1:K:168:ASP:CG	2:M:832:LYS:HZ2	2.26	0.43
1:L:117:VAL:HG12	1:L:118:ALA:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:6:PHE:CE1	2:M:909:ALA:HB2	2.54	0.43
2:M:64:LEU:HB2	2:M:359:MET:SD	2.59	0.43
2:M:557:ARG:C	2:M:559:LEU:N	2.76	0.43
2:M:910:LYS:CA	2:M:913:GLU:HG3	2.48	0.43
2:M:1094:ALA:HA	3:N:90:MET:CE	2.45	0.43
2:M:1103:ASP:CG	2:M:1104:GLU:N	2.77	0.43
3:N:172:PRO:CG	3:N:178:LEU:HD22	2.48	0.43
3:N:978:TYR:CE1	3:N:985:ASP:HA	2.52	0.43
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.44	0.43
3:N:1282:ARG:HB3	3:N:1282:ARG:NH1	2.34	0.43
3:N:1490:LYS:C	3:N:1492:LEU:H	2.27	0.43
4:O:30:LEU:O	4:O:35:PHE:HA	2.18	0.43
4:O:59:ASN:HD22	4:O:59:ASN:HA	1.60	0.43
5:P:215:GLU:O	5:P:218:GLN:HB3	2.18	0.43
1:A:184:THR:O	1:A:192:LEU:HD12	2.19	0.43
1:A:196:THR:HG23	1:A:196:THR:O	2.18	0.43
1:B:7:LYS:CE	1:B:186:LEU:HD13	2.49	0.43
1:B:66:SER:O	1:B:75:VAL:HG23	2.18	0.43
1:B:182:GLU:OE1	1:B:194:LYS:HD3	2.19	0.43
2:C:183:SER:CB	2:C:190:LYS:HD3	2.41	0.43
2:C:213:ALA:C	2:C:215:GLY:H	2.26	0.43
2:C:238:LEU:O	2:C:241:LEU:N	2.52	0.43
2:C:436:GLY:O	2:C:459:ALA:HB2	2.18	0.43
2:C:516:ARG:HH11	2:C:521:PRO:CA	2.31	0.43
2:C:576:ALA:N	2:C:662:GLU:CD	2.74	0.43
2:C:1014:SER:OG	2:C:1015:LEU:N	2.52	0.43
2:C:1057:SER:OG	3:D:621:LYS:CE	2.67	0.43
3:D:100:ALA:CB	3:D:128:TYR:HE2	2.32	0.43
3:D:373:PRO:C	3:D:374:GLU:HG3	2.44	0.43
3:D:847:ASP:O	3:D:848:GLU:C	2.62	0.43
3:D:859:ASP:HB2	3:D:862:ASP:OD1	2.19	0.43
3:D:1035:ILE:C	3:D:1037:GLN:H	2.26	0.43
3:D:1062:ARG:HH11	3:D:1062:ARG:HG3	1.83	0.43
5:F:123:ASP:O	5:F:126:LEU:N	2.52	0.43
2:M:139:GLN:HB2	2:M:391:LEU:HD21	2.01	0.43
2:M:449:ILE:C	2:M:451:LEU:H	2.26	0.43
2:M:670:GLN:HB3	2:M:699:PHE:CE2	2.53	0.43
2:M:917:LEU:C	2:M:919:ALA:N	2.77	0.43
2:M:988:VAL:O	2:M:989:VAL:HG12	2.19	0.43
2:M:1022:GLY:H	2:M:1028:GLY:HA3	1.84	0.43
2:M:1055:LEU:HD21	2:M:1079:PRO:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:128:TYR:O	3:N:568:ARG:NH2	2.51	0.43
3:N:212:ARG:CB	3:N:394:LEU:HD22	2.48	0.43
3:N:601:ARG:NH2	3:N:611:GLN:HB2	2.34	0.43
3:N:951:ILE:C	3:N:953:ASP:H	2.27	0.43
3:N:1111:ASP:HB3	3:N:1203:LYS:NZ	2.33	0.43
3:N:1379:VAL:N	3:N:1420:LEU:HD23	2.33	0.43
3:N:1489:GLN:HA	3:N:1492:LEU:HB2	2.00	0.43
5:P:369:LEU:HD11	5:P:401:GLU:OE1	2.19	0.43
1:A:30:ARG:HH12	1:B:155:LYS:NZ	2.16	0.42
1:A:58:ILE:HG21	1:A:61:VAL:HG21	2.01	0.42
1:B:133:GLU:CG	1:B:134:GLU:H	2.25	0.42
2:C:776:SER:HA	2:C:780:GLU:N	2.34	0.42
2:C:957:LYS:HE3	2:C:957:LYS:HB2	1.85	0.42
2:C:1085:PHE:O	2:C:1088:LEU:HB3	2.18	0.42
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.84	0.42
3:D:434:ARG:HB3	3:D:447:VAL:HG13	1.99	0.42
3:D:559:ALA:O	3:D:560:GLN:C	2.61	0.42
3:D:654:LYS:O	3:D:657:LEU:HB3	2.19	0.42
3:D:768:ASN:CG	3:D:1210:SER:OG	2.62	0.42
3:D:897:TRP:CZ2	3:D:902:LEU:HD21	2.54	0.42
3:D:970:LYS:C	3:D:972:LEU:N	2.74	0.42
3:D:1109:GLU:CD	3:D:1110:ALA:CA	2.92	0.42
3:D:1188:VAL:CG2	3:D:1189:ARG:N	2.82	0.42
4:E:54:LEU:HG	4:E:58:PRO:CD	2.48	0.42
1:K:49:PRO:CA	1:K:148:VAL:HG12	2.48	0.42
1:L:43:ILE:HG23	1:L:47:SER:HB2	2.00	0.42
2:M:487:THR:HG22	2:M:488:ALA:H	1.84	0.42
2:M:650:ARG:HG2	2:M:653:ASP:HB2	2.01	0.42
2:M:721:ARG:HB3	2:M:759:THR:OG1	2.19	0.42
2:M:878:SER:C	2:M:879:ARG:O	2.59	0.42
2:M:971:LYS:HD2	2:M:986:PRO:CB	2.47	0.42
2:M:979:THR:C	2:M:981:GLU:N	2.77	0.42
2:M:1044:GLY:H	3:N:762:GLN:CD	2.26	0.42
2:M:1076:VAL:HA	2:M:1077:PRO:HD3	1.86	0.42
2:M:1103:ASP:O	2:M:1104:GLU:C	2.60	0.42
2:M:1115:LEU:HB3	3:N:85:VAL:CG1	2.41	0.42
3:N:15:PRO:HB2	3:N:19:ARG:HH12	1.82	0.42
3:N:119:SER:CB	3:N:123:LEU:HB2	2.47	0.42
3:N:128:TYR:HE1	3:N:461:ILE:HG13	1.81	0.42
3:N:210:ARG:HG3	3:N:398:ALA:H	1.83	0.42
3:N:387:LEU:HD13	3:N:387:LEU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:691:LEU:HD23	3:N:720:LEU:CD1	2.49	0.42
3:N:760:ARG:NH2	4:O:3:GLU:CD	2.76	0.42
3:N:765:SER:C	3:N:767:HIS:N	2.77	0.42
3:N:984:THR:O	3:N:986:ARG:N	2.52	0.42
3:N:1055:VAL:HA	3:N:1056:PRO:HD3	1.73	0.42
3:N:1209:LEU:HD13	3:N:1215:VAL:HA	2.01	0.42
3:N:1286:THR:HG22	3:N:1287:GLU:H	1.83	0.42
4:O:22:VAL:CG1	4:O:68:LEU:HD21	2.46	0.42
1:B:38:ASN:O	1:B:41:ARG:HB3	2.19	0.42
1:B:82:LEU:HD13	1:B:142:VAL:HG11	2.01	0.42
2:C:159:ILE:HG21	2:C:175:GLU:OE1	2.19	0.42
2:C:289:THR:CG2	2:C:290:LEU:HD23	2.36	0.42
2:C:471:TYR:CE2	2:C:496:ILE:HD13	2.54	0.42
2:C:483:VAL:HG12	2:C:484:VAL:H	1.85	0.42
2:C:551:GLU:HA	2:C:906:PHE:HE2	1.84	0.42
2:C:846:LYS:O	3:D:741:ASP:HB2	2.18	0.42
2:C:863:ASP:OD1	2:C:865:THR:HG23	2.19	0.42
2:C:1016:ILE:HD11	5:F:330:GLY:CA	2.49	0.42
3:D:135:LEU:O	3:D:136:ASP:O	2.37	0.42
3:D:231:VAL:HA	3:D:378:ILE:HD11	1.99	0.42
3:D:245:LEU:H	3:D:245:LEU:CD1	2.31	0.42
3:D:385:VAL:HG13	3:D:385:VAL:O	2.18	0.42
3:D:437:VAL:HG12	3:D:438:ASP:N	2.34	0.42
3:D:623:VAL:HG12	3:D:624:ASP:N	2.34	0.42
3:D:701:LEU:HD23	3:D:713:ILE:CG2	2.50	0.42
3:D:707:THR:HG21	3:D:713:ILE:HG13	2.00	0.42
3:D:732:VAL:C	3:D:734:GLU:N	2.75	0.42
3:D:804:LEU:HD12	3:D:831:GLY:CA	2.48	0.42
3:D:895:VAL:O	3:D:899:LEU:HD12	2.18	0.42
3:D:1019:PRO:O	3:D:1023:MET:HE2	2.18	0.42
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	2.01	0.42
3:D:1266:ARG:O	3:D:1268:PRO:HD3	2.20	0.42
3:D:1331:ASP:CB	3:D:1334:GLN:HG3	2.49	0.42
3:D:1379:VAL:CG1	3:D:1395:LEU:HD23	2.48	0.42
5:F:185:GLN:O	5:F:189:GLU:HG3	2.19	0.42
5:F:269:ASN:O	5:F:273:ARG:N	2.47	0.42
1:K:18:ARG:HH22	1:K:88:ARG:HH21	1.63	0.42
1:K:127:LEU:O	1:K:127:LEU:HG	2.18	0.42
1:K:151:VAL:HG11	1:K:156:HIS:HB3	2.01	0.42
1:K:227:ASN:O	1:K:227:ASN:OD1	2.36	0.42
1:L:19:GLU:O	1:L:207:PRO:HG3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:175:ARG:O	3:N:851:LEU:HD11	2.19	0.42
2:M:12:VAL:HG21	2:M:481:ASP:HA	2.01	0.42
2:M:105:THR:HG22	2:M:106:GLY:H	1.84	0.42
2:M:143:SER:O	2:M:276:LYS:NZ	2.46	0.42
2:M:537:LYS:C	2:M:539:VAL:H	2.26	0.42
2:M:598:GLU:O	2:M:651:LYS:HE3	2.18	0.42
2:M:650:ARG:HG2	2:M:653:ASP:CB	2.49	0.42
2:M:863:ASP:C	2:M:865:THR:H	2.25	0.42
2:M:979:THR:CG2	2:M:981:GLU:HB2	2.49	0.42
2:M:1019:GLN:HE22	3:N:621:LYS:CD	2.32	0.42
2:M:1048:THR:N	3:N:758:GLU:OE2	2.50	0.42
3:N:44:LEU:HB3	3:N:525:ARG:NH2	2.35	0.42
3:N:881:LEU:HD21	3:N:941:PHE:HZ	1.76	0.42
3:N:958:GLU:OE2	3:N:961:LYS:CE	2.66	0.42
3:N:996:TRP:O	3:N:1000:THR:OG1	2.28	0.42
3:N:1083:ASP:O	3:N:1087:ARG:HG2	2.19	0.42
3:N:1098:LEU:HD21	3:N:1263:PHE:CE1	2.54	0.42
3:N:1396:GLU:C	3:N:1399:ASP:H	2.27	0.42
4:O:45:ARG:NH1	4:O:72:ARG:NH2	2.55	0.42
4:O:53:GLY:C	4:O:55:PHE:N	2.73	0.42
5:P:184:ARG:HG2	5:P:184:ARG:HH11	1.83	0.42
5:P:362:SER:O	5:P:366:ALA:CB	2.65	0.42
5:P:408:LEU:HD23	5:P:409:LYS:N	2.34	0.42
1:A:218:LEU:O	1:A:222:LEU:CD2	2.64	0.42
1:B:31:GLY:HA3	2:C:856:GLU:OE1	2.18	0.42
1:B:41:ARG:HG3	1:B:41:ARG:HH11	1.84	0.42
2:C:26:TYR:HA	2:C:29:ALA:HB2	2.00	0.42
2:C:856:GLU:HG3	2:C:857:ASP:N	2.34	0.42
2:C:1057:SER:CB	3:D:621:LYS:HB3	2.49	0.42
2:C:1097:LEU:HD23	3:D:101:HIS:CE1	2.51	0.42
3:D:46:ASP:OD1	3:D:47:GLU:N	2.50	0.42
3:D:78:VAL:O	3:D:79:GLU:O	2.36	0.42
3:D:225:LEU:HD12	3:D:440:VAL:CG2	2.46	0.42
3:D:398:ALA:HB1	3:D:443:VAL:HG13	2.01	0.42
3:D:462:GLN:HG3	3:D:513:ILE:CD1	2.49	0.42
3:D:500:ARG:O	3:D:501:ALA:C	2.61	0.42
3:D:565:ILE:HG13	5:F:87:GLU:OE2	2.19	0.42
3:D:596:SER:C	3:D:598:ARG:N	2.76	0.42
3:D:834:THR:HG22	3:D:838:ARG:NE	2.35	0.42
3:D:1296:SER:C	3:D:1298:GLY:N	2.75	0.42
4:E:40:LEU:HD12	4:E:40:LEU:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:191:ASN:N	5:F:191:ASN:ND2	2.66	0.42
5:F:209:PHE:CD2	5:F:213:ILE:HD11	2.54	0.42
1:K:30:ARG:HB2	1:K:191:ASP:OD2	2.19	0.42
1:K:53:VAL:HG21	1:K:82:LEU:O	2.20	0.42
1:K:138:LEU:HD11	1:K:140:MET:HE2	2.01	0.42
1:L:59:GLU:OE1	1:L:138:LEU:CA	2.67	0.42
1:L:83:LYS:HE3	1:L:168:ASP:HB2	2.01	0.42
1:L:101:LEU:HD11	1:L:113:ASP:HB2	2.01	0.42
2:M:15:LEU:HD12	2:M:15:LEU:H	1.84	0.42
2:M:350:ARG:HD2	2:M:350:ARG:H	1.84	0.42
2:M:399:ASN:OD1	2:M:399:ASN:C	2.63	0.42
2:M:400:PRO:HD2	2:M:660:ALA:HB3	2.00	0.42
2:M:432:ARG:NH2	3:N:1047:LYS:HB3	2.34	0.42
2:M:698:ASP:OD1	2:M:832:LYS:HE3	2.20	0.42
2:M:799:ILE:HG12	2:M:828:ALA:O	2.20	0.42
2:M:881:ASN:ND2	2:M:881:ASN:O	2.52	0.42
2:M:923:GLU:HA	2:M:923:GLU:OE2	2.19	0.42
2:M:1022:GLY:HA3	2:M:1028:GLY:N	2.33	0.42
2:M:1036:GLU:H	2:M:1036:GLU:CD	2.19	0.42
3:N:534:ARG:HG2	5:P:315:VAL:HG23	2.00	0.42
3:N:564:GLU:CD	3:N:564:GLU:N	2.77	0.42
3:N:719:VAL:O	3:N:720:LEU:C	2.61	0.42
3:N:896:ALA:C	3:N:898:GLU:H	2.27	0.42
3:N:967:ALA:O	3:N:968:ASP:C	2.63	0.42
4:O:25:LYS:HA	4:O:28:GLN:HB2	2.00	0.42
5:P:163:LEU:HD13	5:P:174:LEU:HG	2.01	0.42
1:A:77:GLU:OE2	2:C:640:ARG:CZ	2.67	0.42
1:B:176:ARG:NH2	3:D:884:ARG:CZ	2.83	0.42
2:C:503:LEU:HD22	2:C:503:LEU:HA	1.83	0.42
2:C:516:ARG:HH12	2:C:521:PRO:HB3	1.74	0.42
2:C:543:ASN:ND2	2:C:562:SER:O	2.52	0.42
2:C:749:VAL:N	2:C:798:GLY:O	2.52	0.42
2:C:936:VAL:O	2:C:936:VAL:HG23	2.19	0.42
2:C:1057:SER:OG	3:D:621:LYS:HB3	2.19	0.42
3:D:481:MET:O	3:D:489:ARG:HB2	2.19	0.42
3:D:537:THR:O	3:D:537:THR:CG2	2.68	0.42
3:D:679:ARG:NH2	3:D:681:ARG:CG	2.79	0.42
3:D:694:VAL:O	3:D:694:VAL:CG1	2.66	0.42
3:D:694:VAL:O	3:D:698:LYS:HD2	2.19	0.42
3:D:710:ARG:O	3:D:712:GLY:N	2.51	0.42
3:D:1011:PHE:CD2	3:D:1021:TYR:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1022:VAL:C	3:D:1024:ALA:N	2.75	0.42
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	2.02	0.42
3:D:1071:PHE:O	3:D:1071:PHE:CD1	2.71	0.42
5:F:198:ILE:O	5:F:200:LYS:N	2.52	0.42
5:F:201:LYS:C	5:F:203:THR:N	2.78	0.42
1:K:63:HIS:HE2	1:K:65:PHE:C	2.27	0.42
1:L:79:ILE:HG13	1:L:80:LEU:N	2.35	0.42
2:M:29:ALA:O	2:M:43:GLY:HA3	2.19	0.42
2:M:44:ILE:H	2:M:44:ILE:HD12	1.84	0.42
2:M:438:ILE:HA	2:M:455:LEU:HA	2.01	0.42
2:M:458:TYR:HE1	2:M:537:LYS:HE2	1.85	0.42
2:M:586:ARG:HA	2:M:589:ARG:HB3	2.02	0.42
2:M:695:LEU:CD2	2:M:833:LEU:HB3	2.48	0.42
2:M:799:ILE:N	2:M:828:ALA:O	2.52	0.42
2:M:944:LEU:HG	2:M:963:LEU:HD21	2.00	0.42
2:M:958:THR:O	2:M:962:GLN:HB2	2.19	0.42
2:M:962:GLN:C	2:M:964:LYS:N	2.76	0.42
2:M:984:GLU:HG3	3:N:945:SER:HA	2.00	0.42
3:N:23:TYR:H	3:N:91:GLY:HA2	1.83	0.42
3:N:37:LEU:HD11	3:N:529:GLN:NE2	2.27	0.42
3:N:947:ILE:O	3:N:947:ILE:CG1	2.67	0.42
3:N:1209:LEU:HD13	3:N:1216:SER:H	1.84	0.42
3:N:1335:LEU:HD23	3:N:1335:LEU:C	2.44	0.42
3:N:1336:LEU:HD12	3:N:1341:PRO:HA	1.99	0.42
5:P:79:ASP:HB3	5:P:80:PRO:CD	2.43	0.42
1:A:14:ARG:HE	1:A:22:GLU:HB2	1.85	0.42
1:A:73:GLU:HB2	1:A:78:ILE:CG1	2.50	0.42
1:B:62:LEU:H	1:B:62:LEU:HD12	1.84	0.42
1:B:99:LEU:HD21	1:B:122:ILE:HD11	2.02	0.42
2:C:57:GLU:HG2	2:C:58:ASP:OD2	2.20	0.42
2:C:536:PRO:HB3	2:C:906:PHE:CD1	2.48	0.42
2:C:752:GLY:O	3:D:679:ARG:HG2	2.18	0.42
3:D:228:ALA:HB1	3:D:231:VAL:HG22	2.02	0.42
3:D:563:PRO:CG	3:D:566:ILE:HD12	2.49	0.42
3:D:789:LEU:HD11	3:D:934:LEU:HD22	2.01	0.42
3:D:792:ILE:CD1	3:D:881:LEU:HD23	2.50	0.42
3:D:1155:VAL:HG13	3:D:1183:ILE:CD1	2.45	0.42
3:D:1207:TYR:CE1	3:D:1212:ALA:O	2.73	0.42
5:F:205:ARG:HE	5:F:251:ILE:CD1	2.31	0.42
5:F:322:GLY:O	5:F:324:GLU:N	2.53	0.42
1:K:38:ASN:OD1	2:M:980:GLY:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:219:ARG:CZ	1:K:220:GLU:HA	2.49	0.42
1:K:219:ARG:O	1:K:221:HIS:N	2.52	0.42
1:L:153:ALA:HB2	1:L:168:ASP:HA	2.00	0.42
2:M:267:TYR:HE1	2:M:338:GLU:OE1	2.02	0.42
2:M:473:ARG:NE	2:M:531:PHE:CZ	2.81	0.42
2:M:523:ILE:O	2:M:523:ILE:HG23	2.19	0.42
2:M:616:GLU:C	2:M:618:GLY:H	2.27	0.42
2:M:824:ARG:NH1	2:M:824:ARG:HG2	2.35	0.42
2:M:1111:ILE:HG13	2:M:1112:PHE:H	1.84	0.42
3:N:9:ARG:CB	3:N:1456:LYS:HA	2.42	0.42
3:N:166:GLN:HB2	3:N:207:PHE:CD2	2.54	0.42
3:N:477:LEU:HD11	3:N:495:ARG:HG2	2.01	0.42
3:N:603:LEU:O	3:N:606:ILE:CB	2.60	0.42
3:N:634:GLY:O	3:N:637:LEU:HD22	2.19	0.42
3:N:925:GLU:OE1	4:O:7:ASP:OD2	2.36	0.42
3:N:1434:TRP:O	3:N:1438:ALA:HB2	2.19	0.42
4:O:39:VAL:HB	4:O:72:ARG:HD2	2.02	0.42
5:P:88:ILE:O	5:P:92:PRO:CG	2.67	0.42
5:P:142:ARG:O	5:P:146:GLY:O	2.37	0.42
5:P:286:PRO:HB3	5:P:290:GLU:CB	2.50	0.42
1:A:3:ASP:O	1:A:5:LYS:N	2.50	0.42
1:A:23:PHE:CD2	1:A:23:PHE:N	2.87	0.42
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.84	0.42
2:C:630:ARG:HG3	2:C:631:SER:O	2.19	0.42
3:D:25:GLU:OE1	3:D:27:GLU:CB	2.64	0.42
3:D:173:PRO:HG2	3:D:200:ASP:CB	2.50	0.42
3:D:601:ARG:HH22	3:D:611:GLN:N	2.18	0.42
3:D:614:PHE:O	3:D:615:ARG:C	2.62	0.42
3:D:956:ILE:HA	3:D:957:PRO:HD3	1.92	0.42
3:D:1103:HIS:C	3:D:1105:ILE:N	2.77	0.42
5:F:170:HIS:C	5:F:172:ARG:N	2.76	0.42
5:F:364:ARG:O	5:F:367:MET:N	2.52	0.42
5:F:416:ARG:HD2	5:F:419:ARG:HB2	2.02	0.42
1:K:44:LEU:HA	1:K:48:ILE:HD11	2.02	0.42
1:K:196:THR:O	1:K:196:THR:OG1	2.37	0.42
1:K:206:THR:HG23	1:K:207:PRO:HD2	2.02	0.42
1:K:214:ALA:O	1:K:215:VAL:C	2.62	0.42
1:L:176:ARG:HD2	1:L:200:TRP:CE3	2.55	0.42
2:M:80:GLN:O	2:M:82:GLU:N	2.53	0.42
2:M:586:ARG:HB3	2:M:586:ARG:HH11	1.83	0.42
2:M:663:ASN:C	2:M:665:PHE:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:807:ARG:HB2	2:M:808:ARG:H	1.67	0.42
2:M:840:ALA:HB2	2:M:846:LYS:HG3	2.00	0.42
2:M:1046:ALA:N	3:N:758:GLU:CD	2.78	0.42
3:N:55:ASP:OD2	3:N:82:LYS:HE2	2.17	0.42
3:N:87:ARG:HB3	3:N:523:ASP:OD2	2.19	0.42
3:N:658:LEU:CD1	3:N:674:ARG:HH11	2.29	0.42
3:N:805:GLU:HA	3:N:831:GLY:HA2	2.02	0.42
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.54	0.42
3:N:970:LYS:HD2	3:N:995:LEU:CD1	2.50	0.42
3:N:1215:VAL:HG22	3:N:1216:SER:H	1.85	0.42
3:N:1393:GLN:O	3:N:1394:VAL:O	2.38	0.42
3:N:1425:THR:O	3:N:1426:LYS:C	2.62	0.42
4:O:79:LEU:HB3	4:O:80:VAL:H	1.69	0.42
1:A:40:LEU:C	1:A:42:ARG:N	2.74	0.42
1:A:99:LEU:N	1:A:99:LEU:CD1	2.83	0.42
1:A:221:HIS:ND1	1:A:224:TYR:CE2	2.88	0.42
1:A:224:TYR:CG	1:B:9:PRO:HG2	2.54	0.42
1:B:26:GLU:HG2	1:B:27:PRO:N	2.34	0.42
1:B:137:ARG:HG2	1:B:137:ARG:HH11	1.85	0.42
1:B:206:THR:HG22	1:B:208:LEU:H	1.85	0.42
2:C:126:SER:HB2	2:C:395:LYS:HD2	2.01	0.42
2:C:403:SER:C	2:C:407:LYS:NZ	2.78	0.42
2:C:615:TYR:C	2:C:617:ASP:N	2.77	0.42
2:C:735:ARG:HG2	2:C:735:ARG:HH11	1.83	0.42
2:C:807:ARG:NE	2:C:808:ARG:O	2.52	0.42
2:C:842:ARG:H	2:C:842:ARG:HG3	1.51	0.42
2:C:917:LEU:O	2:C:920:GLN:HB3	2.20	0.42
2:C:1014:SER:HB2	5:F:331:ASP:OD1	2.20	0.42
3:D:17:LYS:O	3:D:20:SER:N	2.53	0.42
3:D:19:ARG:NH2	3:D:94:GLU:OE2	2.48	0.42
3:D:421:LEU:HD23	3:D:421:LEU:N	2.34	0.42
3:D:462:GLN:HA	3:D:513:ILE:HD13	2.00	0.42
3:D:572:ARG:O	3:D:575:GLN:N	2.53	0.42
3:D:642:CYS:O	3:D:642:CYS:SG	2.71	0.42
3:D:704:ARG:O	3:D:705:ALA:O	2.38	0.42
3:D:729:HIS:CG	3:D:730:PRO:HD2	2.55	0.42
3:D:1294:VAL:C	3:D:1295:GLU:HG2	2.45	0.42
3:D:1300:SER:O	3:D:1301:LYS:HB2	2.19	0.42
3:D:1396:GLU:C	3:D:1398:TRP:N	2.75	0.42
3:D:1409:ALA:O	3:D:1410:GLU:O	2.38	0.42
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:24:ALA:O	4:E:27:ALA:N	2.52	0.42
1:K:33:GLY:CA	1:K:195:LEU:HB2	2.42	0.42
1:K:63:HIS:CD2	1:K:65:PHE:N	2.87	0.42
1:K:110:LYS:O	1:K:111:ALA:C	2.62	0.42
2:M:405:ARG:HH22	2:M:409:ARG:HH21	1.61	0.42
2:M:573:ARG:O	2:M:574:ALA:C	2.60	0.42
2:M:631:SER:C	2:M:633:GLN:N	2.77	0.42
2:M:684:PHE:O	2:M:685:GLU:C	2.62	0.42
2:M:720:GLU:OE2	2:M:758:ARG:NH1	2.53	0.42
2:M:816:LYS:O	2:M:819:VAL:HG23	2.19	0.42
2:M:841:ASN:HD21	2:M:843:HIS:CD2	2.37	0.42
3:N:486:ARG:CA	3:N:489:ARG:HD2	2.49	0.42
3:N:899:LEU:HD13	3:N:899:LEU:H	1.84	0.42
3:N:948:THR:O	3:N:1019:PRO:CB	2.68	0.42
3:N:1197:ARG:NH1	3:N:1377:LYS:HE3	2.34	0.42
3:N:1219:GLU:CG	3:N:1221:VAL:HG22	2.37	0.42
3:N:1450:ALA:CA	3:N:1455:LYS:HG3	2.44	0.42
5:P:94:LEU:HB2	5:P:98:GLU:HG3	2.02	0.42
5:P:105:LYS:HE3	5:P:179:GLU:CD	2.45	0.42
5:P:137:GLY:HA2	5:P:140:ARG:HH22	1.84	0.42
5:P:271:LEU:HD21	5:P:299:TRP:CH2	2.55	0.42
1:A:1:MET:C	1:A:6:LEU:HD22	2.42	0.42
1:A:74:ASP:OD1	1:A:74:ASP:N	2.52	0.42
1:A:228:PRO:HB3	1:B:13:VAL:HB	2.01	0.42
2:C:52:PHE:CB	2:C:53:PRO:HD3	2.50	0.42
2:C:148:PHE:CB	2:C:313:LEU:HD22	2.48	0.42
2:C:365:ASP:O	2:C:367:LEU:HD23	2.20	0.42
2:C:520:GLU:HA	2:C:521:PRO:HD3	1.86	0.42
2:C:583:LEU:O	2:C:585:GLU:N	2.53	0.42
2:C:1057:SER:HB3	3:D:621:LYS:HE2	2.01	0.42
2:C:1102:LEU:HD23	2:C:1106:ASP:C	2.44	0.42
3:D:64:LYS:HE2	3:D:64:LYS:HB3	1.82	0.42
3:D:389:GLU:CD	3:D:389:GLU:H	2.25	0.42
3:D:846:PRO:O	3:D:849:ALA:HB3	2.19	0.42
3:D:858:VAL:CG1	3:D:877:PRO:HG2	2.50	0.42
3:D:907:GLU:HG3	3:D:1026:SER:CA	2.50	0.42
3:D:1011:PHE:CE1	3:D:1018:ASN:ND2	2.87	0.42
3:D:1105:ILE:C	3:D:1106:VAL:HG23	2.44	0.42
1:K:26:GLU:CB	1:K:27:PRO:CD	2.92	0.42
1:L:54:THR:OG1	1:L:156:HIS:CE1	2.73	0.42
2:M:367:LEU:C	2:M:371:LYS:HB3	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:588:VAL:HG21	2:M:664:GLY:O	2.20	0.42
2:M:901:TYR:N	2:M:901:TYR:CD1	2.87	0.42
2:M:1016:ILE:HG23	3:N:526:PRO:HG2	2.01	0.42
3:N:245:LEU:HB3	3:N:366:LYS:NZ	2.35	0.42
3:N:373:PRO:O	3:N:374:GLU:HG3	2.20	0.42
3:N:397:LYS:HE2	3:N:399:ARG:NE	2.24	0.42
3:N:535:PHE:N	3:N:535:PHE:CD1	2.88	0.42
3:N:569:ASN:HD21	3:N:572:ARG:NH1	2.18	0.42
3:N:575:GLN:O	3:N:577:ALA:N	2.53	0.42
3:N:1099:VAL:HG13	3:N:1223:ILE:HD12	2.01	0.42
3:N:1241:PHE:C	3:N:1257:PRO:HB3	2.44	0.42
3:N:1346:ARG:HG3	3:N:1346:ARG:NH1	2.35	0.42
3:N:1412:LYS:HG3	3:N:1412:LYS:O	2.19	0.42
1:B:42:ARG:NH1	1:B:42:ARG:HG2	2.35	0.42
1:B:87:VAL:HG12	1:B:122:ILE:HA	2.02	0.42
2:C:71:TYR:N	2:C:71:TYR:HD2	2.17	0.42
2:C:157:ARG:HB3	2:C:158:TYR:H	1.72	0.42
3:D:115:LEU:HD22	3:D:502:PHE:CE1	2.54	0.42
3:D:1302:GLU:OE2	3:D:1304:LYS:HD3	2.20	0.42
3:D:1435:LEU:HG	3:D:1467:ILE:HD12	2.02	0.42
4:E:41:GLU:HB3	4:E:42:PRO:CD	2.50	0.42
5:F:336:GLU:O	5:F:338:LEU:N	2.53	0.42
5:F:386:VAL:CG1	5:F:387:GLY:H	2.26	0.42
1:K:44:LEU:O	1:K:48:ILE:HD12	2.20	0.42
1:L:25:LEU:HD23	1:L:25:LEU:O	2.20	0.42
2:M:464:LEU:HD12	2:M:464:LEU:HA	1.87	0.42
2:M:712:ALA:HB3	2:M:821:GLU:H	1.85	0.42
2:M:976:ASP:C	2:M:978:ARG:H	2.28	0.42
2:M:1036:GLU:O	2:M:1039:ALA:N	2.52	0.42
2:M:1072:LYS:C	3:N:659:LYS:HZ2	2.26	0.42
3:N:224:ARG:NH1	3:N:229:ALA:N	2.68	0.42
3:N:447:VAL:C	3:N:448:GLU:HG3	2.45	0.42
3:N:560:GLN:OE1	5:P:221:ILE:HG22	2.20	0.42
3:N:661:MET:HB3	3:N:667:ALA:CB	2.49	0.42
3:N:785:ILE:HG13	3:N:939:PHE:CD2	2.54	0.42
3:N:791:TYR:CD2	3:N:945:SER:OG	2.62	0.42
3:N:886:VAL:C	3:N:888:GLU:H	2.27	0.42
3:N:1078:ARG:HH11	3:N:1078:ARG:CG	2.24	0.42
3:N:1147:ARG:CB	3:N:1188:VAL:HG21	2.50	0.42
3:N:1258:ARG:O	3:N:1258:ARG:HG2	2.19	0.42
3:N:1302:GLU:HG2	3:N:1303:TYR:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1486:VAL:HG12	4:O:73:LEU:HD22	2.01	0.42
4:O:45:ARG:HB3	4:O:46:PRO:HD2	2.02	0.42
4:O:88:GLU:O	4:O:92:ILE:HG12	2.20	0.42
5:P:389:PHE:HD2	5:P:397:ILE:CD1	2.29	0.42
1:A:77:GLU:CD	2:C:640:ARG:NH1	2.78	0.42
1:A:88:ARG:HG2	1:A:88:ARG:HH11	1.84	0.42
1:A:227:ASN:O	1:A:227:ASN:CG	2.62	0.42
1:B:18:ARG:O	1:B:207:PRO:HD3	2.20	0.42
1:B:100:LEU:O	1:B:114:PHE:HA	2.20	0.42
2:C:73:LEU:H	2:C:73:LEU:CD1	2.31	0.42
2:C:237:ARG:O	2:C:241:LEU:HG	2.20	0.42
2:C:327:HIS:HA	2:C:431:HIS:HD2	1.83	0.42
2:C:365:ASP:HA	2:C:367:LEU:HD22	2.00	0.42
2:C:497:ALA:HB2	2:C:515:ALA:HB2	2.02	0.42
2:C:768:THR:O	2:C:772:ARG:HB2	2.18	0.42
2:C:872:ASN:HA	2:C:873:PRO:HD3	1.80	0.42
2:C:889:HIS:C	2:C:891:GLY:H	2.27	0.42
2:C:897:LEU:HD13	2:C:921:ALA:CB	2.32	0.42
2:C:918:LEU:O	2:C:919:ALA:C	2.61	0.42
2:C:1048:THR:O	2:C:1052:MET:HB2	2.20	0.42
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.35	0.42
3:D:9:ARG:CZ	3:D:11:ALA:HB2	2.50	0.42
3:D:84:ILE:HG13	3:D:85:VAL:N	2.35	0.42
3:D:564:GLU:C	3:D:566:ILE:N	2.77	0.42
3:D:602:SER:OG	3:D:605:ASP:CG	2.63	0.42
3:D:618:LEU:HD23	3:D:618:LEU:HA	1.75	0.42
3:D:653:PHE:CD1	3:D:653:PHE:N	2.88	0.42
3:D:778:LEU:HD12	3:D:778:LEU:HA	1.78	0.42
3:D:786:ILE:HD13	3:D:908:LYS:CB	2.50	0.42
3:D:826:PRO:HB2	3:D:829:VAL:CG2	2.46	0.42
3:D:895:VAL:C	3:D:897:TRP:N	2.77	0.42
4:E:54:LEU:HA	4:E:58:PRO:CD	2.49	0.42
2:M:112:GLU:C	2:M:113:VAL:HG23	2.44	0.42
2:M:432:ARG:NH2	3:N:1047:LYS:CG	2.83	0.42
2:M:503:LEU:HD22	2:M:508:ILE:HA	2.02	0.42
2:M:846:LYS:HE2	2:M:997:LEU:HD12	2.02	0.42
2:M:910:LYS:O	2:M:913:GLU:HB2	2.19	0.42
2:M:958:THR:HG23	2:M:961:GLU:H	1.84	0.42
2:M:1039:ALA:O	2:M:1043:TYR:CE1	2.73	0.42
3:N:455:ARG:CD	3:N:463:GLN:HE21	2.33	0.42
3:N:572:ARG:O	3:N:575:GLN:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:637:LEU:C	3:N:729:HIS:HD2	2.28	0.42
3:N:877:PRO:O	3:N:878:GLY:C	2.63	0.42
3:N:1286:THR:CG2	3:N:1287:GLU:N	2.83	0.42
3:N:1336:LEU:CD1	3:N:1341:PRO:CA	2.98	0.42
4:O:36:LYS:HD3	4:O:36:LYS:HA	1.66	0.42
1:A:88:ARG:NH1	1:A:90:LEU:HD21	2.33	0.41
1:A:220:GLU:HG2	1:A:220:GLU:O	2.20	0.41
2:C:132:ALA:O	2:C:133:ASP:C	2.61	0.41
2:C:135:VAL:HG12	2:C:136:ILE:N	2.34	0.41
2:C:144:PRO:HB2	2:C:276:LYS:NZ	2.35	0.41
2:C:473:ARG:NH2	2:C:484:VAL:HG21	2.35	0.41
2:C:497:ALA:N	2:C:531:PHE:O	2.46	0.41
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.45	0.41
2:C:837:ASP:OD2	2:C:838:LYS:N	2.52	0.41
2:C:984:GLU:HG2	3:D:944:THR:O	2.20	0.41
2:C:1034:GLU:OE1	3:D:1096:ARG:HD2	2.19	0.41
2:C:1067:TYR:OH	2:C:1071:ILE:HD11	2.18	0.41
2:C:1081:VAL:CG1	2:C:1086:ARG:HE	2.32	0.41
2:C:1113:GLU:C	2:C:1115:LEU:HD12	2.45	0.41
3:D:117:ASP:OD1	3:D:495:ARG:CZ	2.68	0.41
3:D:714:GLN:HE22	3:D:735:ALA:HB3	1.78	0.41
3:D:775:GLY:O	3:D:776:GLU:C	2.63	0.41
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.34	0.41
3:D:890:VAL:O	3:D:891:GLU:C	2.63	0.41
3:D:951:ILE:O	3:D:951:ILE:CD1	2.68	0.41
3:D:1094:LEU:C	3:D:1096:ARG:N	2.78	0.41
3:D:1202:GLN:O	3:D:1203:LYS:C	2.62	0.41
3:D:1403:LEU:HD22	3:D:1407:LEU:HD22	2.02	0.41
3:D:1494:ALA:CB	4:E:92:ILE:HD11	2.50	0.41
2:M:20:GLU:HG3	2:M:460:ARG:HH21	1.84	0.41
2:M:484:VAL:O	2:M:486:MET:N	2.53	0.41
2:M:979:THR:C	2:M:981:GLU:H	2.27	0.41
2:M:1019:GLN:HE21	2:M:1019:GLN:HB3	1.60	0.41
2:M:1047:HIS:ND1	3:N:754:PHE:CB	2.83	0.41
2:M:1093:GLN:O	2:M:1094:ALA:C	2.62	0.41
2:M:1093:GLN:C	2:M:1095:LEU:N	2.74	0.41
3:N:116:LEU:CB	3:N:118:LEU:HD13	2.50	0.41
3:N:374:GLU:OE2	3:N:386:HIS:ND1	2.53	0.41
3:N:470:LEU:O	3:N:471:GLU:C	2.63	0.41
3:N:486:ARG:N	3:N:489:ARG:HD2	2.35	0.41
3:N:553:ARG:NH1	3:N:573:MET:HE1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:575:GLN:O	3:N:578:VAL:N	2.53	0.41
3:N:767:HIS:HA	3:N:924:MET:SD	2.60	0.41
3:N:1140:ILE:C	3:N:1142:ALA:H	2.27	0.41
3:N:1225:ALA:O	3:N:1227:GLN:N	2.53	0.41
3:N:1271:LYS:HZ2	3:N:1334:GLN:HE22	1.62	0.41
3:N:1290:LEU:HD22	3:N:1311:LEU:HD22	2.01	0.41
3:N:1304:LYS:O	3:N:1305:LEU:CG	2.67	0.41
4:O:62:THR:O	4:O:66:LYS:HB2	2.19	0.41
5:P:166:LEU:HA	5:P:167:PRO:HD3	1.83	0.41
5:P:196:VAL:HA	5:P:199:ALA:HB3	2.01	0.41
5:P:302:LYS:HG3	5:P:303:ARG:N	2.35	0.41
1:A:20:TYR:CE1	1:A:22:GLU:HG3	2.54	0.41
1:A:86:VAL:N	1:A:124:ASN:HD22	2.18	0.41
2:C:274:ARG:HB2	2:C:288:ARG:HH22	1.84	0.41
2:C:435:TYR:CD1	3:D:1071:PHE:CD2	3.06	0.41
2:C:475:VAL:C	2:C:476:GLY:O	2.62	0.41
2:C:533:ASP:HB3	2:C:538:GLN:HE21	1.85	0.41
2:C:572:ILE:CG1	2:C:701:THR:HB	2.50	0.41
2:C:573:ARG:C	2:C:574:ALA:O	2.63	0.41
2:C:848:VAL:HG21	3:D:742:GLY:CA	2.50	0.41
2:C:889:HIS:O	2:C:891:GLY:N	2.53	0.41
3:D:74:GLU:C	3:D:76:CYS:H	2.27	0.41
3:D:82:LYS:O	3:D:83:SER:C	2.64	0.41
3:D:133:ILE:CG1	3:D:456:MET:HE3	2.47	0.41
3:D:215:TYR:HE2	3:D:375:GLU:HG2	1.84	0.41
3:D:378:ILE:CD1	3:D:378:ILE:N	2.81	0.41
3:D:416:ALA:N	3:D:417:PRO:CD	2.72	0.41
3:D:592:THR:O	3:D:593:ASN:C	2.62	0.41
3:D:887:ALA:HA	3:D:896:ALA:CB	2.50	0.41
3:D:988:ARG:HD2	3:D:988:ARG:O	2.19	0.41
3:D:1283:ILE:HG22	3:D:1284:GLU:N	2.35	0.41
3:D:1348:LEU:O	3:D:1352:ILE:HG13	2.20	0.41
3:D:1397:LYS:HZ1	3:D:1432:LYS:HB3	1.85	0.41
4:E:29:GLN:HA	4:E:32:ARG:HB3	2.02	0.41
5:F:80:PRO:O	5:F:84:TYR:CE2	2.73	0.41
5:F:330:GLY:O	5:F:333:ILE:HD12	2.19	0.41
2:M:515:ALA:HB3	2:M:524:VAL:HG12	2.02	0.41
2:M:578:VAL:HG11	2:M:991:GLN:CB	2.50	0.41
2:M:1102:LEU:HD23	2:M:1106:ASP:HA	2.01	0.41
2:M:1114:GLY:O	2:M:1116:ALA:N	2.52	0.41
3:N:36:THR:CG2	3:N:38:LYS:HG3	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:71:LYS:HD2	3:N:71:LYS:N	2.35	0.41
3:N:96:ALA:CB	3:N:554:LEU:HD12	2.47	0.41
3:N:97:THR:O	3:N:98:PRO:C	2.63	0.41
3:N:167:GLU:OE2	5:P:91:VAL:HG22	2.20	0.41
3:N:187:LYS:NZ	3:N:213:VAL:CG1	2.81	0.41
3:N:247:GLU:O	3:N:247:GLU:HG2	2.20	0.41
3:N:685:ASP:C	3:N:687:VAL:N	2.75	0.41
3:N:785:ILE:HG12	3:N:935:LYS:HA	2.01	0.41
3:N:785:ILE:CG1	3:N:939:PHE:CE2	3.04	0.41
3:N:795:VAL:HG23	3:N:879:ARG:CZ	2.50	0.41
3:N:868:TYR:HD1	3:N:869:MET:H	1.62	0.41
3:N:890:VAL:O	3:N:891:GLU:C	2.62	0.41
3:N:1110:ALA:O	3:N:1111:ASP:C	2.63	0.41
3:N:1153:VAL:O	3:N:1155:VAL:HG23	2.21	0.41
3:N:1233:GLY:HA2	3:N:1236:LEU:HD12	2.01	0.41
3:N:1313:VAL:HG23	3:N:1314:LYS:HZ1	1.85	0.41
3:N:1366:LYS:O	3:N:1369:GLU:N	2.53	0.41
3:N:1445:HIS:C	3:N:1447:LEU:H	2.28	0.41
3:N:1481:VAL:O	3:N:1482:ARG:C	2.63	0.41
4:O:83:ASP:C	4:O:85:LEU:H	2.28	0.41
5:P:94:LEU:C	5:P:96:LEU:N	2.77	0.41
5:P:207:LEU:HD12	5:P:212:LEU:CD2	2.50	0.41
5:P:384:GLU:HG2	5:P:384:GLU:O	2.20	0.41
1:A:140:MET:O	1:A:140:MET:HG3	2.21	0.41
1:A:153:ALA:C	1:A:155:LYS:H	2.28	0.41
1:B:34:VAL:O	1:B:34:VAL:HG12	2.19	0.41
2:C:87:ASP:C	2:C:88:LEU:HD23	2.45	0.41
2:C:223:ASP:O	2:C:225:SER:N	2.53	0.41
2:C:278:GLU:HG3	2:C:283:ILE:O	2.20	0.41
2:C:511:GLU:C	2:C:512:ARG:HG2	2.45	0.41
2:C:516:ARG:CZ	3:D:1068:LEU:CD2	2.79	0.41
2:C:536:PRO:HB2	2:C:905:ILE:CG2	2.50	0.41
2:C:708:TYR:CD1	2:C:708:TYR:N	2.88	0.41
2:C:857:ASP:HA	2:C:977:GLY:O	2.19	0.41
2:C:987:ILE:HA	3:D:948:THR:CG2	2.49	0.41
2:C:1083:GLU:O	2:C:1087:VAL:CG2	2.58	0.41
3:D:218:LYS:HG3	3:D:370:ALA:HB1	2.01	0.41
3:D:650:LEU:HD12	3:D:657:LEU:CD2	2.50	0.41
3:D:653:PHE:CD1	3:D:695:ILE:HD11	2.55	0.41
3:D:661:MET:HE1	3:D:677:LEU:CD2	2.50	0.41
3:D:863:VAL:C	3:D:864:VAL:HG23	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:882:PHE:C	3:D:884:ARG:N	2.78	0.41
3:D:936:TYR:C	3:D:938:GLY:N	2.75	0.41
3:D:1018:ASN:HB3	3:D:1021:TYR:HB3	2.02	0.41
3:D:1021:TYR:O	3:D:1024:ALA:HB3	2.20	0.41
3:D:1459:LEU:HD13	3:D:1468:LEU:HD12	2.03	0.41
4:E:53:GLY:C	4:E:55:PHE:H	2.28	0.41
5:F:362:SER:O	5:F:363:GLU:C	2.63	0.41
5:F:386:VAL:CG1	5:F:387:GLY:N	2.82	0.41
1:K:2:LEU:O	1:K:6:LEU:HD23	2.20	0.41
1:K:110:LYS:O	1:K:112:ARG:N	2.53	0.41
1:L:177:VAL:HG13	1:L:197:LEU:HD11	2.02	0.41
2:M:198:ARG:HH22	2:M:203:ASP:CB	2.31	0.41
2:M:680:ASP:C	2:M:682:TYR:N	2.71	0.41
2:M:858:MET:HE3	2:M:858:MET:HB2	1.89	0.41
2:M:1053:LEU:HD13	2:M:1053:LEU:HA	1.77	0.41
3:N:100:ALA:HB2	3:N:128:TYR:OH	2.20	0.41
3:N:195:VAL:O	3:N:205:TYR:HD1	2.03	0.41
3:N:237:LYS:H	3:N:238:PRO:HD3	1.86	0.41
3:N:574:LEU:O	3:N:575:GLN:C	2.63	0.41
3:N:984:THR:HG23	3:N:986:ARG:HB3	2.01	0.41
3:N:1295:GLU:HB3	3:N:1300:SER:CB	2.50	0.41
3:N:1356:TYR:CG	3:N:1363:LEU:HD21	2.55	0.41
3:N:1395:LEU:O	3:N:1395:LEU:HD22	2.20	0.41
5:P:369:LEU:HD11	5:P:401:GLU:CD	2.45	0.41
5:P:398:ARG:O	5:P:399:GLN:C	2.64	0.41
5:P:413:SER:OG	5:P:419:ARG:NH2	2.43	0.41
1:B:33:GLY:HA3	1:B:181:VAL:CG1	2.50	0.41
2:C:44:ILE:HD12	2:C:44:ILE:N	2.35	0.41
2:C:338:GLU:CA	2:C:341:THR:HG22	2.50	0.41
2:C:634:GLY:HA3	2:C:704:HIS:CE1	2.56	0.41
2:C:912:PRO:O	2:C:915:LYS:N	2.53	0.41
2:C:983:ILE:HG23	3:D:944:THR:CA	2.51	0.41
2:C:1115:LEU:HD22	3:D:88:TYR:HD1	1.82	0.41
3:D:23:TYR:HB3	3:D:49:ILE:O	2.19	0.41
3:D:207:PHE:HA	3:D:208:PRO:HD3	1.80	0.41
3:D:684:LYS:O	3:D:686:GLU:N	2.53	0.41
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.36	0.41
3:D:994:GLN:HE21	3:D:998:GLU:HG2	1.83	0.41
3:D:1022:VAL:O	3:D:1025:GLN:N	2.50	0.41
3:D:1084:THR:O	3:D:1087:ARG:N	2.45	0.41
3:D:1197:ARG:C	3:D:1197:ARG:NE	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:6:ILE:HG23	4:E:7:ASP:N	2.35	0.41
5:F:138:SER:OG	5:F:140:ARG:HG2	2.20	0.41
5:F:195:VAL:HG22	5:F:220:LEU:HD12	2.02	0.41
5:F:323:ASP:O	5:F:325:LYS:HG3	2.20	0.41
1:K:218:LEU:CD2	1:L:222:LEU:HD11	2.45	0.41
2:M:73:LEU:CD2	2:M:94:LEU:HD13	2.50	0.41
2:M:145:GLY:H	2:M:163:ILE:HG23	1.84	0.41
2:M:390:GLN:C	2:M:392:SER:H	2.28	0.41
2:M:431:HIS:CG	2:M:432:ARG:N	2.88	0.41
2:M:674:VAL:O	2:M:989:VAL:HA	2.20	0.41
2:M:1043:TYR:OH	3:N:713:ILE:O	2.37	0.41
2:M:1046:ALA:HB2	3:N:1476:THR:HB	2.01	0.41
2:M:1072:LYS:C	3:N:659:LYS:NZ	2.79	0.41
2:M:1088:LEU:HA	2:M:1091:GLU:OE2	2.20	0.41
3:N:430:ASP:HB3	3:N:431:VAL:H	1.51	0.41
3:N:560:GLN:CG	5:P:221:ILE:HG21	2.50	0.41
3:N:839:LEU:H	3:N:839:LEU:HG	1.67	0.41
3:N:934:LEU:O	3:N:935:LYS:C	2.63	0.41
3:N:940:THR:O	3:N:943:THR:N	2.50	0.41
3:N:1087:ARG:N	3:N:1087:ARG:CD	2.83	0.41
3:N:1116:ASN:ND2	3:N:1116:ASN:H	2.15	0.41
3:N:1307:LYS:O	3:N:1309:ALA:N	2.53	0.41
3:N:1322:GLY:HA3	3:N:1339:LYS:HE3	2.02	0.41
5:P:367:MET:O	5:P:371:LEU:N	2.53	0.41
5:P:377:ASP:CG	5:P:378:GLY:N	2.77	0.41
1:A:7:LYS:HZ3	1:A:188:GLN:HE21	1.64	0.41
1:A:51:THR:HG21	1:A:89:PHE:CD2	2.55	0.41
1:B:36:LEU:O	1:B:37:GLY:C	2.62	0.41
1:B:48:ILE:C	1:B:148:VAL:HG12	2.46	0.41
1:B:76:VAL:HG12	1:B:76:VAL:O	2.21	0.41
1:B:165:ILE:O	1:B:165:ILE:HG13	2.20	0.41
2:C:66:LEU:HD13	2:C:100:LEU:HD23	2.02	0.41
2:C:110:GLU:O	2:C:111:ASP:C	2.63	0.41
2:C:118:ILE:HA	2:C:119:PRO:HD3	1.92	0.41
2:C:134:ARG:HH12	2:C:393:GLN:N	2.15	0.41
2:C:411:SER:HB2	2:C:452:ILE:HG23	2.02	0.41
2:C:728:HIS:O	2:C:729:LEU:HD22	2.19	0.41
2:C:865:THR:HA	2:C:866:PRO:HD3	1.81	0.41
3:D:65:ARG:CG	3:D:66:GLN:N	2.82	0.41
3:D:208:PRO:HB2	3:D:395:VAL:CG1	2.47	0.41
3:D:401:TYR:N	3:D:402:PRO:HD3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:423:ASP:OD2	5:F:174:LEU:HD13	2.19	0.41
3:D:513:ILE:HG13	3:D:513:ILE:H	1.51	0.41
3:D:614:PHE:O	3:D:617:ASN:HB3	2.21	0.41
3:D:678:GLU:CG	3:D:679:ARG:HG3	2.50	0.41
3:D:1014:ASN:O	3:D:1015:TYR:CD1	2.74	0.41
3:D:1422:MET:CE	3:D:1427:SER:HA	2.48	0.41
5:F:97:GLU:O	5:F:100:VAL:HB	2.21	0.41
5:F:202:TYR:HE2	5:F:248:ASN:OD1	2.04	0.41
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.56	0.41
2:M:44:ILE:HD12	2:M:44:ILE:N	2.36	0.41
2:M:56:GLU:OE2	2:M:356:ARG:HD3	2.20	0.41
2:M:112:GLU:O	2:M:113:VAL:HG23	2.20	0.41
2:M:139:GLN:NE2	2:M:414:GLY:HA3	2.31	0.41
2:M:233:GLU:OE1	2:M:237:ARG:HD3	2.20	0.41
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.44	0.41
2:M:660:ALA:O	2:M:667:ALA:N	2.52	0.41
2:M:824:ARG:HG2	2:M:824:ARG:HH11	1.85	0.41
3:N:525:ARG:O	3:N:526:PRO:C	2.63	0.41
3:N:549:ASN:C	3:N:551:ASN:N	2.79	0.41
3:N:605:ASP:OD1	3:N:605:ASP:N	2.53	0.41
3:N:670:VAL:O	3:N:673:ALA:N	2.54	0.41
3:N:1118:ILE:HD13	3:N:1118:ILE:HA	1.90	0.41
1:A:40:LEU:HD12	1:A:197:LEU:HD11	2.03	0.41
1:A:92:PRO:C	1:A:94:LEU:N	2.78	0.41
1:A:122:ILE:HG22	1:A:124:ASN:H	1.85	0.41
1:B:15:THR:HA	1:B:21:GLY:HA2	2.02	0.41
1:B:30:ARG:NE	1:B:191:ASP:HB2	2.35	0.41
2:C:230:ARG:HA	2:C:231:PRO:HD3	1.88	0.41
2:C:350:ARG:HG2	2:C:350:ARG:HH11	1.85	0.41
2:C:586:ARG:HD3	2:C:590:ASP:OD2	2.20	0.41
2:C:691:SER:O	2:C:693:GLU:N	2.53	0.41
2:C:928:LYS:HG2	2:C:932:GLU:CD	2.46	0.41
2:C:1058:ASP:HB2	3:D:621:LYS:CE	2.50	0.41
2:C:1115:LEU:HD13	3:D:88:TYR:HD1	1.84	0.41
3:D:139:GLY:C	3:D:147:VAL:HG22	2.45	0.41
3:D:623:VAL:CG1	3:D:624:ASP:N	2.83	0.41
3:D:926:LYS:HE3	3:D:926:LYS:HB2	1.88	0.41
3:D:999:THR:O	3:D:1002:LYS:HB2	2.20	0.41
3:D:1106:VAL:CG2	3:D:1474:ALA:HB2	2.49	0.41
3:D:1307:LYS:HG3	3:D:1308:GLU:H	1.85	0.41
3:D:1312:LEU:HD21	3:D:1327:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1319:VAL:O	3:D:1319:VAL:HG23	2.21	0.41
3:D:1336:LEU:CD2	3:D:1421:LEU:HB2	2.47	0.41
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.20	0.41
3:D:1486:VAL:C	3:D:1487:VAL:HG23	2.45	0.41
5:F:275:ALA:HA	5:F:278:LEU:HD12	2.03	0.41
1:K:151:VAL:HB	1:K:169:ALA:HB3	2.02	0.41
1:L:182:GLU:OE1	1:L:194:LYS:HD3	2.21	0.41
2:M:78:PHE:HB3	2:M:79:PRO:CD	2.49	0.41
2:M:133:ASP:HB2	2:M:395:LYS:HB3	2.03	0.41
2:M:143:SER:OG	2:M:276:LYS:NZ	2.52	0.41
2:M:167:LYS:C	2:M:169:GLY:H	2.28	0.41
2:M:349:ALA:O	2:M:352:ALA:N	2.50	0.41
2:M:400:PRO:HB3	2:M:593:ALA:HB2	2.03	0.41
2:M:670:GLN:O	2:M:671:ASN:C	2.63	0.41
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.47	0.41
2:M:855:VAL:HG21	2:M:866:PRO:HG2	2.03	0.41
2:M:1054:THR:HG21	2:M:1079:PRO:CB	2.47	0.41
3:N:84:ILE:O	3:N:87:ARG:HG2	2.21	0.41
3:N:135:LEU:HD21	3:N:452:ILE:CD1	2.47	0.41
3:N:575:GLN:OE1	3:N:575:GLN:HA	2.19	0.41
3:N:624:ASP:HB3	3:N:625:TYR:H	1.60	0.41
3:N:675:ARG:HA	3:N:678:GLU:CD	2.46	0.41
3:N:1042:ARG:HD3	3:N:1065:LEU:HD11	2.02	0.41
3:N:1078:ARG:O	3:N:1082:ALA:HB3	2.21	0.41
3:N:1137:ARG:CD	3:N:1137:ARG:N	2.83	0.41
3:N:1258:ARG:C	3:N:1260:ILE:N	2.73	0.41
3:N:1447:LEU:HD12	3:N:1447:LEU:HA	1.84	0.41
1:A:124:ASN:N	1:A:125:PRO:CD	2.83	0.41
1:B:91:ASN:HB2	1:B:92:PRO:CD	2.51	0.41
2:C:185:LYS:HE3	2:C:185:LYS:HB2	1.90	0.41
2:C:337:GLY:O	2:C:339:LEU:N	2.54	0.41
2:C:407:LYS:HE2	2:C:407:LYS:HB2	1.83	0.41
2:C:516:ARG:NH2	3:D:1068:LEU:HB2	2.36	0.41
2:C:983:ILE:O	2:C:983:ILE:HG22	2.19	0.41
3:D:17:LYS:O	3:D:18:ILE:C	2.62	0.41
3:D:93:ILE:CD1	3:D:548:ILE:CD1	2.99	0.41
3:D:112:ILE:O	3:D:112:ILE:HD12	2.21	0.41
3:D:526:PRO:HD2	5:F:317:LEU:HD13	2.03	0.41
3:D:601:ARG:HB2	5:F:318:GLU:CD	2.46	0.41
3:D:646:LYS:O	3:D:649:ALA:N	2.53	0.41
3:D:891:GLU:O	3:D:893:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1072:ILE:HD13	3:D:1072:ILE:HA	1.79	0.41
3:D:1128:VAL:C	3:D:1129:THR:HG22	2.45	0.41
3:D:1360:GLY:O	3:D:1361:VAL:C	2.63	0.41
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.34	0.41
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.86	0.41
4:E:41:GLU:CA	4:E:45:ARG:HG3	2.51	0.41
5:F:163:LEU:HB3	5:F:174:LEU:HD12	2.03	0.41
5:F:234:LYS:HD2	5:F:236:SER:CB	2.51	0.41
1:K:104:GLU:O	1:K:105:GLY:O	2.39	0.41
1:K:133:GLU:CG	1:K:134:GLU:H	2.34	0.41
2:M:101:ILE:HG22	2:M:102:HIS:N	2.36	0.41
2:M:124:ASP:OD1	2:M:125:GLY:N	2.53	0.41
2:M:239:PHE:CE1	2:M:254:VAL:HG21	2.56	0.41
2:M:442:GLU:HG2	2:M:454:SER:OG	2.21	0.41
2:M:1063:ARG:CG	2:M:1064:ASN:H	2.32	0.41
2:M:1088:LEU:HA	2:M:1091:GLU:CD	2.45	0.41
3:N:520:LEU:HD11	3:N:524:LEU:HD12	2.03	0.41
3:N:554:LEU:HD22	3:N:554:LEU:HA	1.91	0.41
3:N:779:ALA:HB3	3:N:931:LEU:CD1	2.50	0.41
3:N:845:ASN:CB	3:N:848:GLU:HG2	2.51	0.41
3:N:957:PRO:HG3	3:N:1007:VAL:HA	2.03	0.41
3:N:1066:THR:OG1	3:N:1067:VAL:N	2.53	0.41
3:N:1101:VAL:HG13	3:N:1102:THR:N	2.35	0.41
3:N:1101:VAL:HG22	3:N:1374:GLN:HB3	2.02	0.41
3:N:1466:VAL:O	3:N:1469:GLY:N	2.50	0.41
5:P:214:GLN:HA	5:P:214:GLN:HE21	1.85	0.41
1:A:58:ILE:HG21	1:A:61:VAL:CG2	2.51	0.41
1:A:64:GLU:O	1:A:64:GLU:HG2	2.20	0.41
1:A:165:ILE:HA	1:A:166:PRO:HD3	1.83	0.41
1:B:68:ILE:HA	1:B:69:PRO:HD3	1.87	0.41
2:C:97:ARG:HH21	2:C:109:LYS:HD2	1.85	0.41
2:C:433:THR:C	2:C:435:TYR:N	2.79	0.41
2:C:443:THR:O	2:C:559:LEU:CD1	2.69	0.41
2:C:577:PRO:HG3	2:C:993:PHE:CG	2.56	0.41
2:C:613:VAL:O	2:C:620:LEU:HA	2.21	0.41
2:C:680:ASP:OD2	3:D:939:PHE:HB3	2.20	0.41
2:C:801:VAL:HG23	2:C:802:ARG:N	2.35	0.41
2:C:873:PRO:O	2:C:877:PRO:HD2	2.21	0.41
2:C:1113:GLU:O	2:C:1115:LEU:HD12	2.21	0.41
3:D:130:SER:HB3	3:D:132:TYR:CD1	2.55	0.41
3:D:133:ILE:HG21	3:D:454:ALA:CB	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:160:GLU:CG	3:D:165:LYS:HD3	2.51	0.41
3:D:711:LEU:CD1	3:D:778:LEU:HD23	2.50	0.41
3:D:1130:ARG:O	3:D:1131:SER:HB3	2.21	0.41
3:D:1243:THR:CB	3:D:1253:THR:HB	2.51	0.41
3:D:1260:ILE:C	3:D:1262:LEU:H	2.28	0.41
5:F:96:LEU:O	5:F:97:GLU:C	2.63	0.41
5:F:114:LYS:O	5:F:117:SER:OG	2.39	0.41
5:F:316:SER:OG	5:F:318:GLU:O	2.22	0.41
5:F:398:ARG:O	5:F:401:GLU:HB3	2.21	0.41
1:L:208:LEU:O	1:L:211:LEU:N	2.53	0.41
2:M:41:ASN:C	2:M:41:ASN:HD22	2.27	0.41
2:M:604:ALA:HB3	2:M:612:VAL:O	2.20	0.41
2:M:610:ARG:HH11	2:M:610:ARG:CG	2.33	0.41
2:M:853:LEU:HA	2:M:854:PRO:HD3	1.81	0.41
3:N:93:ILE:HG13	3:N:519:VAL:HG21	2.02	0.41
3:N:119:SER:C	3:N:121:THR:N	2.79	0.41
3:N:550:ARG:NE	3:N:573:MET:HE3	2.36	0.41
3:N:590:PRO:C	3:N:600:LEU:HD21	2.44	0.41
3:N:598:ARG:HA	3:N:599:PRO:HD3	1.84	0.41
3:N:736:PHE:O	3:N:738:ALA:CB	2.68	0.41
3:N:796:ARG:HE	3:N:828:LYS:NZ	2.17	0.41
3:N:884:ARG:O	3:N:888:GLU:N	2.53	0.41
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.85	0.41
3:N:1128:VAL:O	3:N:1130:ARG:N	2.53	0.41
3:N:1135:ARG:CZ	3:N:1139:ASP:HB3	2.51	0.41
3:N:1144:LEU:HB3	3:N:1171:VAL:HG22	2.03	0.41
3:N:1148:VAL:HG12	3:N:1189:ARG:CG	2.50	0.41
3:N:1188:VAL:O	3:N:1188:VAL:HG13	2.19	0.41
3:N:1243:THR:OG1	3:N:1253:THR:CB	2.69	0.41
3:N:1243:THR:HG21	3:N:1253:THR:OG1	2.20	0.41
1:B:10:VAL:HG12	1:B:10:VAL:O	2.21	0.41
1:B:151:VAL:HA	1:B:152:PRO:HD3	1.97	0.41
2:C:73:LEU:HG	2:C:94:LEU:HD13	2.03	0.41
2:C:188:LYS:HB3	2:C:189:ARG:H	1.75	0.41
2:C:291:ALA:O	2:C:292:ARG:HB2	2.21	0.41
2:C:341:THR:HG23	2:C:345:ARG:NH2	2.34	0.41
2:C:516:ARG:HE	3:D:1068:LEU:HD13	1.86	0.41
2:C:561:GLY:C	2:C:563:ASN:N	2.79	0.41
2:C:576:ALA:HB3	2:C:900:ARG:NH2	2.36	0.41
2:C:633:GLN:H	2:C:633:GLN:HE21	1.69	0.41
2:C:792:VAL:HA	2:C:793:PRO:HD3	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:835:VAL:HG22	2:C:836:GLY:N	2.36	0.41
2:C:854:PRO:O	2:C:855:VAL:C	2.64	0.41
2:C:886:LEU:HD23	2:C:886:LEU:HA	1.89	0.41
2:C:896:PHE:CZ	2:C:925:TYR:CG	3.08	0.41
2:C:1010:THR:CG2	2:C:1011:GLY:H	2.29	0.41
3:D:23:TYR:O	3:D:24:GLY:C	2.61	0.41
3:D:37:LEU:N	3:D:37:LEU:HD23	2.36	0.41
3:D:183:GLU:HA	3:D:186:VAL:HG12	2.03	0.41
3:D:444:VAL:O	3:D:446:VAL:HG23	2.21	0.41
3:D:500:ARG:HG3	3:D:500:ARG:HH11	1.86	0.41
3:D:519:VAL:O	3:D:520:LEU:C	2.64	0.41
3:D:664:LYS:C	3:D:666:ILE:H	2.29	0.41
3:D:760:ARG:O	4:E:3:GLU:OE1	2.38	0.41
3:D:806:PHE:C	3:D:808:THR:N	2.78	0.41
3:D:834:THR:HG22	3:D:838:ARG:HD2	2.02	0.41
3:D:866:VAL:O	3:D:873:LEU:HB2	2.20	0.41
3:D:1202:GLN:HA	3:D:1215:VAL:CG1	2.51	0.41
3:D:1331:ASP:O	3:D:1334:GLN:HB2	2.20	0.41
4:E:51:LEU:HD23	4:E:51:LEU:N	2.36	0.41
4:E:59:ASN:HB3	4:E:62:THR:OG1	2.20	0.41
5:F:153:PRO:HB2	5:F:154:LYS:H	1.51	0.41
5:F:188:ILE:HD13	5:F:221:ILE:HG23	2.03	0.41
5:F:343:ASP:O	5:F:347:GLN:NE2	2.53	0.41
1:K:33:GLY:HA3	1:K:193:ASP:OD2	2.21	0.41
1:K:124:ASN:O	1:K:125:PRO:C	2.64	0.41
1:K:206:THR:HB	1:K:209:GLU:HB2	2.03	0.41
1:L:11:PHE:CE2	1:L:13:VAL:HG22	2.56	0.41
1:L:31:GLY:H	1:L:193:ASP:CG	2.28	0.41
1:L:76:VAL:O	1:L:80:LEU:HB2	2.20	0.41
1:L:77:GLU:CG	3:N:872:ARG:NH2	2.70	0.41
1:L:103:ALA:CB	1:L:107:LYS:NZ	2.84	0.41
2:M:266:ARG:HH11	2:M:266:ARG:HG3	1.86	0.41
2:M:276:LYS:HA	2:M:279:GLU:HG2	2.02	0.41
2:M:394:PHE:CD1	2:M:632:ASN:OD1	2.74	0.41
2:M:413:LEU:N	2:M:413:LEU:CD1	2.83	0.41
2:M:432:ARG:NH1	3:N:1047:LYS:HZ3	2.18	0.41
2:M:464:LEU:O	2:M:464:LEU:HG	2.20	0.41
2:M:586:ARG:O	2:M:587:VAL:C	2.61	0.41
2:M:598:GLU:C	2:M:651:LYS:HG3	2.45	0.41
2:M:653:ASP:OD1	2:M:653:ASP:C	2.63	0.41
2:M:682:TYR:CD1	3:N:635:PRO:HG2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:744:ARG:HH21	2:M:747:ALA:HA	1.84	0.41
2:M:775:ARG:HH11	2:M:782:ALA:HB1	1.86	0.41
2:M:776:SER:HA	2:M:780:GLU:HB2	2.02	0.41
2:M:840:ALA:O	2:M:995:MET:CE	2.64	0.41
2:M:874:LEU:O	2:M:877:PRO:HD2	2.21	0.41
2:M:883:GLY:C	2:M:885:ILE:H	2.29	0.41
2:M:956:GLY:O	2:M:957:LYS:O	2.39	0.41
2:M:1028:GLY:O	2:M:1029:GLY:O	2.39	0.41
2:M:1102:LEU:HD13	3:N:7:LYS:O	2.20	0.41
3:N:171:LEU:HD23	3:N:390:PRO:HG3	2.01	0.41
3:N:183:GLU:HA	3:N:186:VAL:CG1	2.51	0.41
3:N:195:VAL:HB	3:N:205:TYR:CG	2.55	0.41
3:N:227:LEU:HD22	3:N:227:LEU:H	1.86	0.41
3:N:404:GLU:OE2	3:N:414:ARG:NH2	2.54	0.41
3:N:444:VAL:O	3:N:444:VAL:HG22	2.19	0.41
3:N:496:LEU:HD23	3:N:496:LEU:O	2.21	0.41
3:N:639:LEU:O	3:N:641:GLN:N	2.54	0.41
3:N:641:GLN:HA	3:N:716:PHE:HB3	2.03	0.41
3:N:761:ILE:HG22	3:N:762:GLN:N	2.36	0.41
3:N:840:LYS:HB2	3:N:840:LYS:HZ2	1.84	0.41
3:N:847:ASP:O	3:N:851:LEU:HG	2.21	0.41
3:N:908:LYS:HG3	3:N:909:ASN:N	2.36	0.41
3:N:1114:THR:HB	3:N:1195:GLN:OE1	2.20	0.41
3:N:1148:VAL:HG12	3:N:1189:ARG:CB	2.48	0.41
3:N:1183:ILE:CG2	3:N:1184:GLN:H	2.27	0.41
3:N:1232:PRO:CB	3:N:1361:VAL:HG11	2.51	0.41
3:N:1394:VAL:O	3:N:1397:LYS:HB2	2.20	0.41
5:P:105:LYS:CE	5:P:179:GLU:HG2	2.44	0.41
5:P:125:ASP:O	5:P:129:GLU:HG2	2.20	0.41
5:P:202:TYR:O	5:P:203:THR:C	2.63	0.41
5:P:394:ARG:H	5:P:394:ARG:HD3	1.86	0.41
1:A:20:TYR:CG	1:A:21:GLY:N	2.89	0.41
1:A:99:LEU:O	1:A:142:VAL:HG22	2.20	0.41
1:B:6:LEU:C	1:B:8:ALA:H	2.27	0.41
1:B:96:THR:O	1:B:96:THR:HG23	2.20	0.41
2:C:41:ASN:ND2	2:C:41:ASN:C	2.79	0.41
2:C:79:PRO:CG	2:C:82:GLU:HB2	2.45	0.41
2:C:398:THR:O	2:C:570:PRO:HD3	2.20	0.41
2:C:490:GLU:O	2:C:494:TYR:CE1	2.73	0.41
2:C:650:ARG:H	2:C:650:ARG:CD	2.20	0.41
2:C:829:GLN:CD	2:C:831:ARG:NH1	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:857:ASP:CB	2:C:978:ARG:HG2	2.38	0.41
2:C:987:ILE:CB	3:D:948:THR:HG21	2.51	0.41
2:C:1115:LEU:HD23	3:D:85:VAL:CG1	2.40	0.41
3:D:85:VAL:HG12	3:D:85:VAL:O	2.21	0.41
3:D:87:ARG:HG3	3:D:88:TYR:CE2	2.56	0.41
3:D:129:PHE:CD2	3:D:587:ARG:CZ	3.03	0.41
3:D:139:GLY:C	3:D:147:VAL:CG2	2.94	0.41
3:D:703:ASN:HD22	3:D:704:ARG:N	2.18	0.41
3:D:804:LEU:HB3	3:D:816:HIS:CE1	2.56	0.41
3:D:1205:TYR:O	3:D:1366:LYS:HE2	2.20	0.41
3:D:1215:VAL:HG22	3:D:1216:SER:N	2.36	0.41
3:D:1265:ALA:O	3:D:1266:ARG:HG3	2.21	0.41
3:D:1282:ARG:HD3	3:D:1295:GLU:CD	2.46	0.41
3:D:1485:GLN:NE2	4:E:80:VAL:O	2.55	0.41
5:F:321:ILE:HD13	5:F:322:GLY:N	2.35	0.41
1:K:71:VAL:HG11	1:K:78:ILE:HD11	2.03	0.41
1:K:105:GLY:O	1:K:106:PRO:C	2.64	0.41
1:L:91:ASN:OD1	1:L:94:LEU:CD1	2.68	0.41
1:L:149:GLY:O	1:L:171:PHE:HB2	2.21	0.41
1:L:206:THR:OG1	1:L:207:PRO:HD2	2.20	0.41
2:M:163:ILE:HA	2:M:164:PRO:HD3	1.69	0.41
2:M:498:GLN:O	2:M:532:MET:HG3	2.21	0.41
2:M:683:ASN:O	2:M:683:ASN:CG	2.63	0.41
2:M:775:ARG:NH2	2:M:784:ASP:HA	2.35	0.41
2:M:858:MET:HE3	2:M:870:ILE:HD11	2.03	0.41
2:M:861:LEU:HB2	2:M:865:THR:HG23	2.03	0.41
2:M:1048:THR:OG1	3:N:755:ALA:O	2.37	0.41
2:M:1081:VAL:HA	2:M:1082:PRO:HD3	1.85	0.41
3:N:367:ILE:H	3:N:367:ILE:CD1	2.31	0.41
3:N:521:PRO:O	3:N:525:ARG:HG3	2.21	0.41
3:N:1090:ASP:O	3:N:1093:TYR:N	2.32	0.41
5:P:151:LEU:O	5:P:152:ASP:C	2.64	0.41
5:P:190:ALA:O	5:P:191:ASN:ND2	2.54	0.41
5:P:220:LEU:HD12	5:P:239:ALA:HB1	2.02	0.41
5:P:271:LEU:HD12	5:P:307:THR:HG21	2.02	0.41
1:A:198:ARG:HH12	2:C:932:GLU:CD	2.29	0.40
1:B:30:ARG:HD3	1:B:191:ASP:HB2	2.02	0.40
2:C:260:LEU:HG	2:C:261:ILE:N	2.35	0.40
2:C:367:LEU:H	2:C:367:LEU:CD2	2.34	0.40
2:C:949:LYS:HD3	3:D:796:ARG:NH1	2.35	0.40
2:C:1074:GLU:O	2:C:1075:ASP:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:30:GLU:HG3	3:D:41:ARG:HG2	2.04	0.40
3:D:633:VAL:O	3:D:633:VAL:HG13	2.20	0.40
3:D:889:ALA:HB1	3:D:930:LEU:HB2	2.03	0.40
3:D:1398:TRP:CZ2	3:D:1415:VAL:HG11	2.56	0.40
4:E:23:VAL:O	4:E:27:ALA:N	2.55	0.40
4:E:36:LYS:HD3	4:E:36:LYS:HA	1.92	0.40
5:F:131:VAL:O	5:F:135:ILE:HG12	2.22	0.40
1:K:52:ALA:HB3	1:K:171:PHE:CD1	2.57	0.40
1:L:44:LEU:HD11	1:L:199:ILE:HD11	2.04	0.40
1:L:190:THR:HG21	3:N:722:GLU:OE1	2.21	0.40
2:M:108:ILE:HB	2:M:368:THR:OG1	2.22	0.40
2:M:150:PRO:HA	2:M:158:TYR:HB3	2.03	0.40
2:M:157:ARG:HD3	2:M:158:TYR:CE1	2.57	0.40
2:M:304:LEU:N	2:M:305:PRO:CD	2.83	0.40
2:M:471:TYR:H	2:M:483:VAL:HG13	1.86	0.40
2:M:479:VAL:HG23	2:M:506:ASN:O	2.21	0.40
2:M:768:THR:HA	2:M:769:PRO:HD3	1.76	0.40
2:M:860:HIS:O	2:M:861:LEU:O	2.39	0.40
2:M:921:ALA:C	2:M:923:GLU:H	2.29	0.40
2:M:999:HIS:CD2	2:M:1003:ASP:OD1	2.74	0.40
3:N:148:GLU:O	3:N:149:LYS:C	2.64	0.40
3:N:541:ASN:N	3:N:541:ASN:ND2	2.65	0.40
3:N:563:PRO:O	3:N:564:GLU:C	2.64	0.40
3:N:668:PRO:HB2	3:N:669:ASN:OD1	2.21	0.40
3:N:780:LYS:O	3:N:781:PRO:C	2.64	0.40
3:N:1256:LEU:C	3:N:1258:ARG:N	2.78	0.40
3:N:1381:VAL:HG23	3:N:1391:GLU:HB2	2.03	0.40
5:P:125:ASP:OD1	5:P:125:ASP:N	2.52	0.40
5:P:410:TYR:HA	5:P:413:SER:OG	2.20	0.40
1:B:51:THR:HG22	1:B:89:PHE:CE2	2.56	0.40
1:B:101:LEU:HD23	1:B:102:LYS:N	2.37	0.40
2:C:395:LYS:HE2	2:C:403:SER:HB2	2.03	0.40
2:C:434:HIS:HB3	2:C:438:ILE:HB	2.02	0.40
2:C:1003:ASP:O	2:C:1004:LYS:C	2.63	0.40
3:D:14:SER:O	3:D:15:PRO:C	2.63	0.40
3:D:149:LYS:CD	3:D:149:LYS:N	2.81	0.40
3:D:245:LEU:HD22	3:D:245:LEU:C	2.46	0.40
3:D:498:VAL:O	3:D:499:VAL:C	2.64	0.40
3:D:699:VAL:HA	3:D:718:PRO:CD	2.40	0.40
3:D:770:LEU:CD2	3:D:777:PRO:CA	2.93	0.40
3:D:771:SER:HA	3:D:772:PRO:HD3	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:795:VAL:HG23	3:D:879:ARG:NH2	2.36	0.40
3:D:864:VAL:CG1	3:D:865:THR:N	2.83	0.40
3:D:900:ILE:O	3:D:902:LEU:HD23	2.21	0.40
3:D:932:ASP:OD2	3:D:935:LYS:NZ	2.44	0.40
3:D:1042:ARG:NH1	3:D:1061:PHE:CZ	2.89	0.40
3:D:1130:ARG:NH2	3:D:1132:LEU:HG	2.32	0.40
3:D:1307:LYS:HZ2	3:D:1308:GLU:CD	2.29	0.40
3:D:1422:MET:O	3:D:1427:SER:OG	2.38	0.40
5:F:176:ILE:O	5:F:177:ALA:C	2.64	0.40
5:F:198:ILE:C	5:F:200:LYS:N	2.80	0.40
5:F:416:ARG:NH1	5:F:419:ARG:HB2	2.37	0.40
1:K:91:ASN:ND2	1:K:92:PRO:CD	2.69	0.40
1:K:127:LEU:O	1:K:129:ILE:CD1	2.69	0.40
1:K:159:LYS:HE2	1:K:159:LYS:HB2	1.90	0.40
1:L:100:LEU:HB2	1:L:115:LEU:HD11	2.03	0.40
1:L:188:GLN:HG3	1:L:189:ARG:N	2.36	0.40
1:L:208:LEU:O	1:L:209:GLU:C	2.64	0.40
2:M:38:LYS:HD3	2:M:38:LYS:HA	1.87	0.40
2:M:41:ASN:ND2	2:M:41:ASN:N	2.67	0.40
2:M:555:ALA:O	2:M:556:ASN:C	2.64	0.40
2:M:793:PRO:HA	2:M:794:PRO:HD3	1.93	0.40
3:N:219:GLU:HG3	3:N:220:ARG:HG3	2.03	0.40
3:N:670:VAL:O	3:N:671:LYS:C	2.64	0.40
3:N:703:ASN:HD22	3:N:704:ARG:H	1.67	0.40
3:N:794:GLN:NE2	3:N:794:GLN:CA	2.83	0.40
3:N:828:LYS:C	3:N:829:VAL:CG2	2.94	0.40
3:N:950:GLY:C	3:N:952:ASP:N	2.77	0.40
3:N:1197:ARG:CD	3:N:1396:GLU:HB2	2.51	0.40
3:N:1231:GLU:N	3:N:1232:PRO:HD3	2.36	0.40
5:P:393:THR:HG22	5:P:394:ARG:N	2.35	0.40
5:P:420:ASP:O	5:P:421:PHE:C	2.64	0.40
1:A:201:THR:HG22	1:A:202:ASP:OD2	2.22	0.40
1:A:222:LEU:HD13	1:A:222:LEU:HA	1.81	0.40
1:B:112:ARG:HB3	1:B:112:ARG:HH11	1.82	0.40
2:C:200:LEU:HD22	2:C:299:LYS:O	2.22	0.40
2:C:202:TYR:CE2	2:C:304:LEU:HD13	2.56	0.40
2:C:212:GLY:O	2:C:218:VAL:HB	2.21	0.40
2:C:235:LEU:O	2:C:235:LEU:HD23	2.21	0.40
2:C:244:PRO:CG	2:C:245:GLY:H	2.35	0.40
2:C:607:ASP:HB2	2:C:610:ARG:HG2	2.04	0.40
2:C:613:VAL:HG11	2:C:655:LEU:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:736:ASP:C	2:C:743:VAL:HG23	2.46	0.40
2:C:846:LYS:O	3:D:741:ASP:CB	2.70	0.40
2:C:1018:GLN:HB3	2:C:1063:ARG:HH22	1.86	0.40
3:D:368:VAL:O	3:D:369:ALA:C	2.63	0.40
3:D:380:GLU:O	3:D:382:GLU:CD	2.64	0.40
3:D:474:GLU:HG3	3:D:496:LEU:CD1	2.46	0.40
3:D:502:PHE:CZ	3:D:509:PRO:HB3	2.55	0.40
3:D:646:LYS:CG	3:D:647:ARG:N	2.77	0.40
3:D:1105:ILE:C	3:D:1106:VAL:CG2	2.95	0.40
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.75	0.40
3:D:1283:ILE:O	3:D:1284:GLU:OE1	2.39	0.40
4:E:30:LEU:O	4:E:35:PHE:CD1	2.74	0.40
1:K:176:ARG:O	1:K:200:TRP:HE3	2.05	0.40
1:K:180:GLN:O	1:K:195:LEU:HD12	2.20	0.40
1:L:66:SER:HB3	1:L:67:THR:H	1.75	0.40
2:M:172:ILE:HA	2:M:185:LYS:O	2.21	0.40
2:M:244:PRO:HG2	2:M:246:ASP:HB2	2.03	0.40
2:M:287:GLY:C	2:M:289:THR:N	2.77	0.40
2:M:304:LEU:H	2:M:305:PRO:CD	2.34	0.40
2:M:409:ARG:HD3	2:M:452:ILE:CG2	2.52	0.40
2:M:564:MET:O	2:M:567:GLN:N	2.55	0.40
2:M:593:ALA:O	2:M:658:GLY:HA3	2.21	0.40
2:M:1006:HIS:HA	2:M:1027:PHE:CE2	2.55	0.40
2:M:1008:ARG:CD	2:M:1029:GLY:H	2.35	0.40
2:M:1037:VAL:O	2:M:1041:GLU:HG3	2.22	0.40
2:M:1038:TRP:O	2:M:1039:ALA:C	2.65	0.40
2:M:1047:HIS:C	2:M:1049:LEU:N	2.78	0.40
3:N:13:ALA:O	3:N:511:TRP:HB3	2.21	0.40
3:N:376:GLU:HB2	3:N:383:GLY:O	2.21	0.40
3:N:557:LEU:O	3:N:562:ALA:HB2	2.21	0.40
3:N:798:GLU:HB3	3:N:826:PRO:HG2	2.02	0.40
3:N:853:VAL:O	3:N:855:HIS:N	2.54	0.40
3:N:897:TRP:CZ2	3:N:902:LEU:HD21	2.52	0.40
3:N:937:TYR:O	3:N:938:GLY:C	2.64	0.40
3:N:1033:GLN:HA	3:N:1036:ARG:HH12	1.85	0.40
3:N:1093:TYR:CE2	3:N:1097:LYS:NZ	2.89	0.40
3:N:1263:PHE:O	3:N:1424:VAL:HB	2.22	0.40
3:N:1395:LEU:HD13	3:N:1395:LEU:C	2.47	0.40
4:O:40:LEU:CD1	4:O:45:ARG:HD2	2.50	0.40
5:P:260:ILE:HG12	5:P:264:MET:CB	2.51	0.40
1:A:14:ARG:NE	1:A:22:GLU:HB2	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.32	0.40
1:B:32:PHE:HA	1:B:35:THR:HB	2.03	0.40
2:C:157:ARG:HA	2:C:157:ARG:HD3	1.86	0.40
2:C:858:MET:O	2:C:859:PRO:C	2.63	0.40
2:C:862:PRO:HG2	2:C:925:TYR:OH	2.22	0.40
2:C:1019:GLN:HE21	2:C:1019:GLN:HB3	1.60	0.40
3:D:29:PRO:HG3	3:D:548:ILE:HG22	2.03	0.40
3:D:106:LYS:HE2	3:D:125:GLN:OE1	2.21	0.40
3:D:217:LYS:HD3	3:D:217:LYS:N	2.36	0.40
3:D:367:ILE:HD13	3:D:368:VAL:N	2.31	0.40
3:D:693:GLU:C	3:D:695:ILE:H	2.28	0.40
3:D:735:ALA:O	3:D:736:PHE:C	2.63	0.40
3:D:806:PHE:CD1	3:D:812:ALA:O	2.74	0.40
3:D:813:LEU:HG	3:D:814:ALA:H	1.85	0.40
3:D:882:PHE:O	3:D:884:ARG:N	2.55	0.40
3:D:932:ASP:C	3:D:934:LEU:H	2.30	0.40
3:D:944:THR:C	3:D:946:GLY:N	2.79	0.40
3:D:1413:THR:N	3:D:1414:PRO:HD3	2.37	0.40
5:F:366:ALA:O	5:F:370:LYS:HB2	2.21	0.40
5:F:398:ARG:O	5:F:399:GLN:C	2.64	0.40
2:M:73:LEU:HA	2:M:93:PRO:O	2.21	0.40
2:M:270:GLY:N	2:M:288:ARG:NE	2.69	0.40
2:M:395:LYS:O	2:M:397:GLU:N	2.54	0.40
2:M:462:ASP:CG	2:M:463:GLU:N	2.76	0.40
2:M:516:ARG:CD	3:N:1068:LEU:HD22	2.51	0.40
2:M:585:GLU:O	2:M:588:VAL:CG2	2.70	0.40
2:M:611:ILE:O	2:M:623:TYR:HB2	2.21	0.40
2:M:711:GLU:HA	2:M:822:VAL:HG12	2.03	0.40
2:M:872:ASN:HA	2:M:873:PRO:HD3	1.87	0.40
2:M:940:GLU:HG3	2:M:975:TYR:OH	2.21	0.40
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.57	0.40
2:M:1043:TYR:HB3	3:N:762:GLN:OE1	2.21	0.40
2:M:1043:TYR:CZ	3:N:763:MET:HG3	2.55	0.40
3:N:691:LEU:HG	3:N:720:LEU:HD11	2.03	0.40
3:N:962:GLN:C	3:N:966:GLU:OE1	2.64	0.40
3:N:1087:ARG:CZ	3:N:1087:ARG:HA	2.50	0.40
3:N:1283:ILE:O	3:N:1284:GLU:OE1	2.39	0.40
3:N:1292:VAL:HG11	3:N:1325:LEU:CD2	2.51	0.40
3:N:1295:GLU:CD	3:N:1300:SER:OG	2.63	0.40
3:N:1304:LYS:O	3:N:1305:LEU:CD2	2.69	0.40
3:N:1368:ILE:O	3:N:1371:VAL:N	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:44:GLU:O	4:O:45:ARG:HD3	2.22	0.40
5:P:144:ILE:CB	5:P:145:PRO:HD3	2.43	0.40
5:P:163:LEU:HD13	5:P:174:LEU:HD11	2.03	0.40
5:P:167:PRO:O	5:P:168:LYS:C	2.63	0.40
5:P:386:VAL:O	5:P:388:ALA:N	2.53	0.40
1:A:89:PHE:CZ	1:A:144:VAL:HG12	2.57	0.40
1:B:213:GLN:O	1:B:216:GLU:HB3	2.21	0.40
2:C:101:ILE:CG2	2:C:102:HIS:H	2.21	0.40
2:C:195:LEU:HD21	2:C:241:LEU:HD12	2.03	0.40
2:C:324:ASP:HB3	2:C:327:HIS:HB2	2.03	0.40
2:C:342:ASP:O	2:C:345:ARG:HG2	2.22	0.40
2:C:670:GLN:HG2	2:C:699:PHE:HD2	1.76	0.40
2:C:709:GLU:CG	2:C:710:ILE:N	2.83	0.40
2:C:915:LYS:NZ	3:D:952:ASP:OD2	2.55	0.40
2:C:1050:GLN:CG	2:C:1079:PRO:HG2	2.43	0.40
3:D:10:ILE:HG13	3:D:1434:TRP:CH2	2.52	0.40
3:D:65:ARG:HD2	3:D:66:GLN:HG2	2.03	0.40
3:D:67:ARG:HG2	5:F:375:LEU:HD21	2.04	0.40
3:D:87:ARG:HB2	3:D:524:LEU:HG	2.02	0.40
3:D:177:ALA:C	3:D:179:VAL:N	2.80	0.40
3:D:563:PRO:CB	5:F:189:GLU:HG2	2.51	0.40
3:D:858:VAL:HG12	3:D:877:PRO:HG2	2.02	0.40
3:D:1135:ARG:O	3:D:1136:LYS:O	2.39	0.40
3:D:1243:THR:HG21	3:D:1253:THR:HA	2.03	0.40
3:D:1424:VAL:O	3:D:1425:THR:C	2.63	0.40
5:F:160:ASP:OD2	5:F:178:ARG:NH2	2.52	0.40
1:K:35:THR:HG22	1:L:39:PRO:HB3	2.04	0.40
1:K:190:THR:C	1:K:192:LEU:H	2.29	0.40
1:L:22:GLU:O	1:L:23:PHE:CG	2.74	0.40
1:L:83:LYS:NZ	3:N:842:VAL:O	2.54	0.40
2:M:6:PHE:CD2	2:M:913:GLU:OE1	2.74	0.40
2:M:44:ILE:CD1	2:M:44:ILE:H	2.35	0.40
2:M:432:ARG:HD3	3:N:1048:PRO:CG	2.50	0.40
2:M:449:ILE:C	2:M:451:LEU:N	2.79	0.40
2:M:536:PRO:CB	2:M:906:PHE:HB2	2.51	0.40
2:M:859:PRO:HD2	2:M:870:ILE:HD11	2.02	0.40
2:M:910:LYS:O	2:M:911:GLU:C	2.64	0.40
2:M:1011:GLY:O	2:M:1012:PRO:O	2.39	0.40
3:N:55:ASP:CA	3:N:82:LYS:HG2	2.52	0.40
3:N:103:TRP:CD1	3:N:583:ASP:OD2	2.74	0.40
3:N:141:ILE:CD1	3:N:450:TYR:H	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:171:LEU:HB3	3:N:390:PRO:CA	2.48	0.40
3:N:217:LYS:HD2	3:N:218:LYS:N	2.24	0.40
3:N:221:ALA:O	3:N:367:ILE:HG21	2.21	0.40
3:N:456:MET:HG2	3:N:456:MET:O	2.21	0.40
3:N:496:LEU:O	3:N:500:ARG:HG3	2.22	0.40
3:N:740:PHE:H	3:N:740:PHE:HD1	1.69	0.40
3:N:766:ALA:HA	3:N:769:LEU:HD11	2.03	0.40
3:N:911:LEU:C	3:N:913:ASP:N	2.78	0.40
3:N:999:THR:O	3:N:1002:LYS:N	2.54	0.40
3:N:1090:ASP:C	3:N:1092:GLY:H	2.30	0.40
3:N:1101:VAL:HG11	3:N:1424:VAL:CG2	2.51	0.40
3:N:1259:VAL:O	3:N:1259:VAL:HG12	2.20	0.40
5:P:274:THR:HG21	5:P:295:MET:CE	2.52	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%)	167 (74%)	39 (17%)	21 (9%)	0	3
1	B	227/315 (72%)	177 (78%)	37 (16%)	13 (6%)	1	9
1	K	227/315 (72%)	161 (71%)	39 (17%)	27 (12%)	0	1
1	L	227/315 (72%)	166 (73%)	44 (19%)	17 (8%)	1	6
2	C	1117/1119 (100%)	781 (70%)	226 (20%)	110 (10%)	0	3
2	M	1117/1119 (100%)	769 (69%)	215 (19%)	133 (12%)	0	1
3	D	1388/1524 (91%)	941 (68%)	293 (21%)	154 (11%)	0	2
3	N	1388/1524 (91%)	907 (65%)	332 (24%)	149 (11%)	0	2
4	E	93/99 (94%)	67 (72%)	17 (18%)	9 (10%)	0	3
4	O	93/99 (94%)	59 (63%)	20 (22%)	14 (15%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	F	341/423 (81%)	241 (71%)	67 (20%)	33 (10%)	0	3
5	P	341/423 (81%)	249 (73%)	57 (17%)	35 (10%)	0	2
All	All	6786/7590 (89%)	4685 (69%)	1386 (20%)	715 (10%)	0	2

All (715) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	47	SER
1	B	3	ASP
1	B	118	ALA
1	B	160	ASP
2	C	7	GLY
2	C	31	GLN
2	C	111	ASP
2	C	152	PRO
2	C	223	ASP
2	C	231	PRO
2	C	244	PRO
2	C	251	ASP
2	C	253	ALA
2	C	261	ILE
2	C	267	TYR
2	C	335	THR
2	C	363	SER
2	C	369	PRO
2	C	442	GLU
2	C	574	ALA
2	C	680	ASP
2	C	727	PRO
2	C	735	ARG
2	C	762	LYS
2	C	842	ARG
2	C	984	GLU
2	C	1016	ILE
2	C	1097	LEU
2	C	1106	ASP
3	D	37	LEU
3	D	41	ARG
3	D	43	GLY
3	D	55	ASP
3	D	82	LYS

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Mol	Chain	Res	Type
3	D	84	ILE
3	D	98	PRO
3	D	119	SER
3	D	120	ALA
3	D	133	ILE
3	D	136	ASP
3	D	140	ALA
3	D	208	PRO
3	D	209	ARG
3	D	219	GLU
3	D	233	LYS
3	D	238	PRO
3	D	381	ALA
3	D	385	VAL
3	D	388	HIS
3	D	416	ALA
3	D	417	PRO
3	D	442	ASN
3	D	548	ILE
3	D	560	GLN
3	D	565	ILE
3	D	580	ALA
3	D	705	ALA
3	D	711	LEU
3	D	735	ALA
3	D	807	ALA
3	D	832	ARG
3	D	912	LYS
3	D	922	LEU
3	D	1028	ALA
3	D	1089	ALA
3	D	1131	SER
3	D	1208	ASP
3	D	1243	THR
3	D	1287	GLU
3	D	1307	LYS
3	D	1370	ILE
3	D	1371	VAL
3	D	1377	LYS
3	D	1388	ARG
3	D	1389	LEU
3	D	1390	LEU

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Mol	Chain	Res	Type
3	D	1410	GLU
3	D	1443	THR
3	D	1452	ILE
3	D	1463	LYS
4	E	41	GLU
4	E	42	PRO
4	E	71	GLY
5	F	75	ILE
5	F	76	SER
5	F	77	THR
5	F	97	GLU
5	F	138	SER
5	F	153	PRO
5	F	286	PRO
5	F	297	PRO
5	F	341	PRO
5	F	363	GLU
5	F	364	ARG
5	F	390	PHE
5	F	414	ARG
5	F	416	ARG
5	F	421	PHE
1	K	12	THR
1	K	27	PRO
1	K	47	SER
1	K	106	PRO
1	K	118	ALA
1	K	188	GLN
1	L	3	ASP
1	L	89	PHE
2	M	7	GLY
2	M	57	GLU
2	M	65	VAL
2	M	178	PRO
2	M	190	LYS
2	M	244	PRO
2	M	251	ASP
2	M	253	ALA
2	M	264	PRO
2	M	265	ARG
2	M	379	GLU
2	M	415	PRO

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Mol	Chain	Res	Type
2	M	419	THR
2	M	435	TYR
2	M	456	ALA
2	M	462	ASP
2	M	548	PRO
2	M	627	ARG
2	M	680	ASP
2	M	684	PHE
2	M	698	ASP
2	M	699	PHE
2	M	762	LYS
2	M	864	GLY
2	M	957	LYS
2	M	1004	LYS
2	M	1012	PRO
2	M	1020	PRO
2	M	1059	ASP
3	N	34	TYR
3	N	41	ARG
3	N	55	ASP
3	N	98	PRO
3	N	133	ILE
3	N	149	LYS
3	N	208	PRO
3	N	209	ARG
3	N	238	PRO
3	N	246	PRO
3	N	369	ALA
3	N	430	ASP
3	N	486	ARG
3	N	487	ALA
3	N	521	PRO
3	N	526	PRO
3	N	586	ARG
3	N	594	PRO
3	N	624	ASP
3	N	637	LEU
3	N	639	LEU
3	N	764	LEU
3	N	766	ALA
3	N	807	ALA
3	N	824	ASN

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Mol	Chain	Res	Type
3	N	829	VAL
3	N	832	ARG
3	N	936	TYR
3	N	1028	ALA
3	N	1066	THR
3	N	1089	ALA
3	N	1125	PRO
3	N	1136	LYS
3	N	1208	ASP
3	N	1228	SER
3	N	1243	THR
3	N	1287	GLU
3	N	1307	LYS
3	N	1384	PRO
3	N	1394	VAL
3	N	1475	GLY
4	O	46	PRO
4	O	58	PRO
4	O	82	GLU
5	P	76	SER
5	P	77	THR
5	P	95	THR
5	P	97	GLU
5	P	148	LYS
5	P	153	PRO
5	P	203	THR
5	P	341	PRO
5	P	364	ARG
5	P	376	ILE
5	P	416	ARG
1	A	9	PRO
1	B	30	ARG
1	B	111	ALA
1	B	125	PRO
2	C	67	ASP
2	C	113	VAL
2	C	170	PRO
2	C	187	ASN
2	C	434	HIS
2	C	545	ASN
2	C	627	ARG
2	C	666	LEU

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Mol	Chain	Res	Type
2	C	807	ARG
2	C	845	ASN
2	C	878	SER
2	C	904	PRO
2	C	937	ASP
2	C	1020	PRO
2	C	1043	TYR
2	C	1062	GLY
3	D	24	GLY
3	D	74	GLU
3	D	79	GLU
3	D	117	ASP
3	D	137	PRO
3	D	149	LYS
3	D	177	ALA
3	D	178	LEU
3	D	190	GLU
3	D	227	LEU
3	D	234	GLU
3	D	247	GLU
3	D	373	PRO
3	D	410	SER
3	D	412	GLY
3	D	424	GLY
3	D	426	LYS
3	D	430	ASP
3	D	440	VAL
3	D	503	LEU
3	D	509	PRO
3	D	594	PRO
3	D	601	ARG
3	D	629	SER
3	D	799	LYS
3	D	806	PHE
3	D	1027	GLY
3	D	1043	GLY
3	D	1075	HIS
3	D	1082	ALA
3	D	1095	THR
3	D	1114	THR
3	D	1125	PRO
3	D	1136	LYS

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Mol	Chain	Res	Type
3	D	1139	ASP
3	D	1153	VAL
3	D	1197	ARG
3	D	1202	GLN
3	D	1211	MET
3	D	1233	GLY
3	D	1268	PRO
3	D	1334	GLN
3	D	1358	ALA
3	D	1384	PRO
3	D	1392	GLY
3	D	1414	PRO
3	D	1423	GLY
3	D	1427	SER
3	D	1482	ARG
4	E	43	GLU
4	E	46	PRO
4	E	53	GLY
4	E	58	PRO
5	F	147	LEU
5	F	154	LYS
5	F	191	ASN
5	F	282	LEU
5	F	399	GLN
5	F	401	GLU
5	F	420	ASP
1	K	11	PHE
1	K	37	GLY
1	K	59	GLU
1	K	105	GLY
1	K	127	LEU
1	K	157	GLY
1	K	173	PRO
1	K	174	VAL
1	K	204	SER
1	L	46	SER
1	L	59	GLU
1	L	118	ALA
1	L	202	ASP
2	M	29	ALA
2	M	31	GLN
2	M	40	GLU

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Mol	Chain	Res	Type
2	M	80	GLN
2	M	87	ASP
2	M	113	VAL
2	M	116	GLY
2	M	170	PRO
2	M	231	PRO
2	M	328	LEU
2	M	337	GLY
2	M	367	LEU
2	M	369	PRO
2	M	428	ARG
2	M	485	TYR
2	M	500	ASN
2	M	518	LYS
2	M	550	LEU
2	M	552	HIS
2	M	566	THR
2	M	600	ASP
2	M	681	GLY
2	M	735	ARG
2	M	738	ASP
2	M	742	VAL
2	M	765	SER
2	M	922	PHE
2	M	960	GLU
2	M	961	GLU
2	M	963	LEU
2	M	977	GLY
2	M	1029	GLY
2	M	1045	ALA
2	M	1113	GLU
3	N	24	GLY
3	N	44	LEU
3	N	73	CYS
3	N	83	SER
3	N	85	VAL
3	N	115	LEU
3	N	137	PRO
3	N	140	ALA
3	N	146	PRO
3	N	162	ARG
3	N	234	GLU

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Mol	Chain	Res	Type
3	N	406	ASP
3	N	410	SER
3	N	412	GLY
3	N	417	PRO
3	N	422	ALA
3	N	447	VAL
3	N	484	PRO
3	N	505	SER
3	N	530	VAL
3	N	561	GLY
3	N	575	GLN
3	N	625	TYR
3	N	640	HIS
3	N	695	ILE
3	N	758	GLU
3	N	759	ALA
3	N	869	MET
3	N	891	GLU
3	N	924	MET
3	N	955	VAL
3	N	1016	PRO
3	N	1040	GLY
3	N	1049	SER
3	N	1051	GLU
3	N	1129	THR
3	N	1255	GLY
3	N	1261	GLU
3	N	1308	GLU
3	N	1385	GLY
3	N	1465	ASN
4	O	22	VAL
5	P	204	GLY
5	P	286	PRO
5	P	363	GLU
5	P	386	VAL
5	P	389	PHE
5	P	393	THR
5	P	421	PHE
1	A	25	LEU
1	A	35	THR
1	A	93	SER
1	A	154	GLU

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Mol	Chain	Res	Type
1	A	189	ARG
1	A	211	LEU
1	A	214	ALA
1	B	119	ASP
2	C	86	LYS
2	C	131	GLY
2	C	161	SER
2	C	178	PRO
2	C	189	ARG
2	C	245	GLY
2	C	292	ARG
2	C	316	GLY
2	C	321	GLU
2	C	419	THR
2	C	506	ASN
2	C	518	LYS
2	C	559	LEU
2	C	560	MET
2	C	598	GLU
2	C	616	GLU
2	C	681	GLY
2	C	684	PHE
2	C	738	ASP
2	C	765	SER
2	C	811	PRO
2	C	832	LYS
2	C	1014	SER
2	C	1059	ASP
3	D	69	GLU
3	D	83	SER
3	D	146	PRO
3	D	502	PHE
3	D	808	THR
3	D	814	ALA
3	D	892	ASP
3	D	896	ALA
3	D	921	ARG
3	D	1040	GLY
3	D	1247	ALA
3	D	1259	VAL
3	D	1265	ALA
3	D	1444	THR

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Mol	Chain	Res	Type
4	E	54	LEU
5	F	234	LYS
5	F	324	GLU
5	F	388	ALA
1	K	29	GLU
1	K	35	THR
1	K	38	ASN
1	K	46	SER
1	K	128	HIS
1	L	159	LYS
1	L	214	ALA
1	L	224	TYR
2	M	10	ARG
2	M	33	ASP
2	M	81	ASP
2	M	111	ASP
2	M	138	SER
2	M	153	ALA
2	M	187	ASN
2	M	261	ILE
2	M	267	TYR
2	M	290	LEU
2	M	363	SER
2	M	416	GLY
2	M	465	GLY
2	M	538	GLN
2	M	626	ARG
2	M	736	ASP
2	M	802	ARG
2	M	856	GLU
2	M	906	PHE
2	M	940	GLU
2	M	1023	GLY
2	M	1115	LEU
3	N	67	ARG
3	N	69	GLU
3	N	120	ALA
3	N	154	THR
3	N	177	ALA
3	N	189	GLN
3	N	239	GLY
3	N	395	VAL

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Mol	Chain	Res	Type
3	N	516	ALA
3	N	564	GLU
3	N	576	GLU
3	N	605	ASP
3	N	731	LEU
3	N	879	ARG
3	N	1111	ASP
3	N	1114	THR
3	N	1268	PRO
3	N	1367	HIS
3	N	1443	THR
3	N	1480	PHE
4	O	32	ARG
4	O	41	GLU
4	O	42	PRO
4	O	81	PRO
5	P	145	PRO
5	P	168	LYS
5	P	240	THR
5	P	314	PRO
5	P	326	ASP
5	P	377	ASP
1	A	116	PRO
1	A	204	SER
1	A	215	VAL
2	C	9	ILE
2	C	80	GLN
2	C	90	TYR
2	C	186	VAL
2	C	228	ALA
2	C	337	GLY
2	C	420	ARG
2	C	431	HIS
2	C	548	PRO
2	C	575	GLN
2	C	692	GLU
2	C	740	GLU
2	C	767	PRO
2	C	862	PRO
2	C	1018	GLN
2	C	1108	PRO
3	D	42	ASP

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Mol	Chain	Res	Type
3	D	78	VAL
3	D	138	LYS
3	D	212	ARG
3	D	220	ARG
3	D	487	ALA
3	D	522	PRO
3	D	547	LEU
3	D	576	GLU
3	D	791	TYR
3	D	911	LEU
3	D	1016	PRO
3	D	1058	ARG
3	D	1196	THR
3	D	1425	THR
3	D	1451	ALA
4	E	32	ARG
5	F	199	ALA
5	F	206	GLY
5	F	232	ARG
5	F	329	TYR
1	K	183	ASP
1	K	220	GLU
1	L	53	VAL
1	L	126	ASP
2	M	106	GLY
2	M	129	ILE
2	M	223	ASP
2	M	377	PRO
2	M	424	GLY
2	M	443	THR
2	M	545	ASN
2	M	562	SER
2	M	574	ALA
2	M	807	ARG
2	M	849	VAL
2	M	857	ASP
2	M	861	LEU
2	M	876	VAL
2	M	1005	MET
2	M	1106	ASP
3	N	6	ARG
3	N	387	LEU

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Mol	Chain	Res	Type
3	N	450	TYR
3	N	483	HIS
3	N	506	GLY
3	N	515	GLU
3	N	587	ARG
3	N	681	ARG
3	N	686	GLU
3	N	730	PRO
3	N	937	TYR
3	N	938	GLY
3	N	939	PHE
3	N	1062	ARG
3	N	1079	LYS
3	N	1132	LEU
3	N	1197	ARG
3	N	1298	GLY
3	N	1315	ASP
3	N	1366	LYS
3	N	1479	ASP
4	O	4	PRO
4	O	56	ASP
5	P	184	ARG
5	P	232	ARG
5	P	297	PRO
5	P	324	GLU
5	P	388	ALA
5	P	394	ARG
1	A	30	ARG
1	A	41	ARG
1	A	46	SER
1	A	160	ASP
1	A	173	PRO
1	A	174	VAL
1	B	106	PRO
1	B	116	PRO
1	B	214	ALA
2	C	265	ARG
2	C	338	GLU
2	C	396	ASP
2	C	535	SER
2	C	541	SER
2	C	593	ALA

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Mol	Chain	Res	Type
2	C	736	ASP
2	C	769	PRO
2	C	783	ARG
2	C	856	GLU
2	C	859	PRO
3	D	35	ARG
3	D	129	PHE
3	D	141	ILE
3	D	237	LYS
3	D	504	ASP
3	D	533	GLY
3	D	668	PRO
3	D	733	CYS
3	D	883	ALA
3	D	1109	GLU
3	D	1129	THR
3	D	1237	THR
3	D	1301	LYS
3	D	1315	ASP
3	D	1342	GLU
5	F	327	SER
5	F	350	LEU
1	K	30	ARG
1	K	39	PRO
1	K	138	LEU
1	K	214	ALA
1	L	92	PRO
1	L	172	SER
1	L	187	GLY
2	M	53	PRO
2	M	104	ASP
2	M	123	GLU
2	M	164	PRO
2	M	217	LEU
2	M	283	ILE
2	M	327	HIS
2	M	447	ALA
2	M	514	VAL
2	M	654	LEU
2	M	714	ASP
2	M	745	ILE
2	M	767	PRO

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Mol	Chain	Res	Type
2	M	884	GLN
2	M	984	GLU
2	M	1000	MET
3	N	416	ALA
3	N	509	PRO
3	N	557	LEU
3	N	560	GLN
3	N	595	GLY
3	N	1006	ALA
3	N	1050	GLY
3	N	1127	GLU
3	N	1213	ARG
3	N	1229	ILE
3	N	1257	PRO
3	N	1269	LYS
3	N	1332	PRO
4	O	44	GLU
4	O	73	LEU
4	O	79	LEU
5	P	236	SER
1	B	59	GLU
2	C	23	VAL
2	C	52	PHE
2	C	62	GLY
2	C	101	ILE
2	C	224	GLU
2	C	232	GLU
2	C	368	THR
2	C	386	PHE
2	C	425	PHE
2	C	500	ASN
2	C	890	LEU
3	D	483	HIS
3	D	753	SER
5	F	155	THR
2	M	152	PRO
2	M	617	ASP
2	M	678	PRO
2	M	859	PRO
2	M	907	ASP
2	M	951	GLY
2	M	1096	ALA

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Mol	Chain	Res	Type
3	N	373	PRO
3	N	522	PRO
3	N	565	ILE
3	N	912	LYS
4	O	33	HIS
5	P	387	GLY
2	C	42	VAL
2	C	259	GLY
2	C	415	PRO
2	C	529	VAL
3	D	15	PRO
3	D	26	VAL
3	D	525	ARG
3	D	530	VAL
1	K	125	PRO
2	M	44	ILE
2	M	74	GLY
2	M	201	GLY
2	M	270	GLY
2	M	812	GLY
3	N	226	PRO
3	N	415	VAL
3	N	1246	VAL
3	N	1252	ILE
5	P	75	ILE
5	P	131	VAL
1	A	228	PRO
1	B	37	GLY
2	C	800	VAL
1	L	215	VAL
2	M	245	GLY
2	M	644	VAL
3	N	1043	GLY
1	A	187	GLY
1	L	207	PRO
2	M	634	GLY
3	N	876	SER
3	N	1344	VAL
1	A	124	ASN
1	B	87	VAL
2	C	79	PRO
3	D	139	GLY

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Mol	Chain	Res	Type
3	D	395	VAL
3	D	1155	VAL
5	F	298	GLY
1	L	136	GLY
3	N	670	VAL
3	N	1454	GLY
2	C	536	PRO
5	P	188	ILE
2	M	166	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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%)	176 (87%)	26 (13%)	4	17
1	B	202/273 (74%)	180 (89%)	22 (11%)	6	23
1	K	202/273 (74%)	170 (84%)	32 (16%)	2	12
1	L	202/273 (74%)	186 (92%)	16 (8%)	11	36
2	C	941/941 (100%)	802 (85%)	139 (15%)	3	13
2	M	941/941 (100%)	802 (85%)	139 (15%)	3	13
3	D	1170/1279 (92%)	972 (83%)	198 (17%)	2	10
3	N	1170/1279 (92%)	974 (83%)	196 (17%)	2	11
4	E	83/87 (95%)	71 (86%)	12 (14%)	3	14
4	O	83/87 (95%)	72 (87%)	11 (13%)	4	17
5	F	300/370 (81%)	257 (86%)	43 (14%)	3	14
5	P	300/370 (81%)	269 (90%)	31 (10%)	7	25
All	All	5796/6446 (90%)	4931 (85%)	865 (15%)	3	13

All (865) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ASP

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Mol	Chain	Res	Type
1	A	9	PRO
1	A	18	ARG
1	A	19	GLU
1	A	26	GLU
1	A	32	PHE
1	A	51	THR
1	A	62	LEU
1	A	67	THR
1	A	73	GLU
1	A	74	ASP
1	A	80	LEU
1	A	84	GLU
1	A	86	VAL
1	A	95	GLN
1	A	101	LEU
1	A	115	LEU
1	A	127	LEU
1	A	146	ARG
1	A	148	VAL
1	A	158	ILE
1	A	180	GLN
1	A	185	ARG
1	A	200	TRP
1	A	219	ARG
1	A	227	ASN
1	B	2	LEU
1	B	5	LYS
1	B	12	THR
1	B	14	ARG
1	B	25	LEU
1	B	26	GLU
1	B	32	PHE
1	B	62	LEU
1	B	99	LEU
1	B	115	LEU
1	B	134	GLU
1	B	138	LEU
1	B	140	MET
1	B	148	VAL
1	B	156	HIS
1	B	181	VAL
1	B	183	ASP

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Mol	Chain	Res	Type
1	B	186	LEU
1	B	189	ARG
1	B	196	THR
1	B	221	HIS
1	B	229	GLN
2	C	20	GLU
2	C	21	ILE
2	C	30	LEU
2	C	39	ARG
2	C	41	ASN
2	C	42	VAL
2	C	45	GLN
2	C	49	ARG
2	C	51	THR
2	C	52	PHE
2	C	61	LYS
2	C	71	TYR
2	C	81	ASP
2	C	82	GLU
2	C	86	LYS
2	C	88	LEU
2	C	95	TYR
2	C	107	LEU
2	C	111	ASP
2	C	113	VAL
2	C	115	LEU
2	C	124	ASP
2	C	152	PRO
2	C	158	TYR
2	C	163	ILE
2	C	168	ARG
2	C	170	PRO
2	C	172	ILE
2	C	178	PRO
2	C	188	LYS
2	C	193	LEU
2	C	196	LEU
2	C	198	ARG
2	C	207	LEU
2	C	211	LEU
2	C	216	GLU
2	C	243	ARG

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Mol	Chain	Res	Type
2	C	276	LYS
2	C	288	ARG
2	C	290	LEU
2	C	321	GLU
2	C	334	ARG
2	C	343	GLN
2	C	358	ARG
2	C	359	MET
2	C	379	GLU
2	C	383	ARG
2	C	398	THR
2	C	430	VAL
2	C	438	ILE
2	C	442	GLU
2	C	448	ASN
2	C	452	ILE
2	C	469	THR
2	C	473	ARG
2	C	474	VAL
2	C	478	VAL
2	C	481	ASP
2	C	500	ASN
2	C	503	LEU
2	C	523	ILE
2	C	524	VAL
2	C	530	GLU
2	C	542	VAL
2	C	543	ASN
2	C	544	THR
2	C	548	PRO
2	C	564	MET
2	C	566	THR
2	C	578	VAL
2	C	583	LEU
2	C	584	GLU
2	C	586	ARG
2	C	588	VAL
2	C	589	ARG
2	C	607	ASP
2	C	614	ARG
2	C	617	ASP
2	C	620	LEU

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Mol	Chain	Res	Type
2	C	630	ARG
2	C	633	GLN
2	C	645	VAL
2	C	648	ARG
2	C	650	ARG
2	C	672	VAL
2	C	673	LEU
2	C	676	ILE
2	C	685	GLU
2	C	727	PRO
2	C	744	ARG
2	C	762	LYS
2	C	764	GLU
2	C	766	GLU
2	C	768	THR
2	C	799	ILE
2	C	804	VAL
2	C	830	LYS
2	C	831	ARG
2	C	832	LYS
2	C	834	GLN
2	C	839	LEU
2	C	841	ASN
2	C	853	LEU
2	C	858	MET
2	C	861	LEU
2	C	862	PRO
2	C	865	THR
2	C	879	ARG
2	C	881	ASN
2	C	886	LEU
2	C	897	LEU
2	C	900	ARG
2	C	904	PRO
2	C	916	GLU
2	C	934	PHE
2	C	940	GLU
2	C	950	LEU
2	C	963	LEU
2	C	971	LYS
2	C	974	LEU
2	C	975	TYR

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Mol	Chain	Res	Type
2	C	984	GLU
2	C	986	PRO
2	C	992	MET
2	C	999	HIS
2	C	1015	LEU
2	C	1016	ILE
2	C	1019	GLN
2	C	1024	LYS
2	C	1036	GLU
2	C	1051	GLU
2	C	1076	VAL
2	C	1091	GLU
2	C	1092	LEU
2	C	1095	LEU
2	C	1101	THR
2	C	1103	ASP
2	C	1104	GLU
2	C	1115	LEU
3	D	21	TRP
3	D	25	GLU
3	D	54	LYS
3	D	65	ARG
3	D	66	GLN
3	D	76	CYS
3	D	85	VAL
3	D	102	ILE
3	D	103	TRP
3	D	106	LYS
3	D	107	ASP
3	D	112	ILE
3	D	121	THR
3	D	122	GLU
3	D	123	LEU
3	D	126	VAL
3	D	127	LEU
3	D	135	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

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Mol	Chain	Res	Type
3	D	161	LEU
3	D	199	LEU
3	D	208	PRO
3	D	211	VAL
3	D	216	VAL
3	D	217	LYS
3	D	218	LYS
3	D	220	ARG
3	D	224	ARG
3	D	225	LEU
3	D	230	TRP
3	D	233	LYS
3	D	236	TYR
3	D	237	LYS
3	D	244	GLU
3	D	245	LEU
3	D	250	LEU
3	D	367	ILE
3	D	374	GLU
3	D	376	GLU
3	D	377	VAL
3	D	378	ILE
3	D	382	GLU
3	D	387	LEU
3	D	389	GLU
3	D	394	LEU
3	D	408	GLU
3	D	411	THR
3	D	413	ASP
3	D	423	ASP
3	D	432	TYR
3	D	445	ARG
3	D	447	VAL
3	D	452	ILE
3	D	491	LYS
3	D	503	LEU
3	D	508	ARG
3	D	511	TRP
3	D	513	ILE
3	D	528	VAL
3	D	542	ASP
3	D	549	ASN

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Mol	Chain	Res	Type
3	D	554	LEU
3	D	565	ILE
3	D	571	LYS
3	D	579	ASP
3	D	581	LEU
3	D	591	VAL
3	D	594	PRO
3	D	602	SER
3	D	604	THR
3	D	611	GLN
3	D	616	GLN
3	D	624	ASP
3	D	630	VAL
3	D	632	VAL
3	D	637	LEU
3	D	639	LEU
3	D	642	CYS
3	D	651	GLU
3	D	659	LYS
3	D	662	GLU
3	D	676	MET
3	D	681	ARG
3	D	682	ASP
3	D	685	ASP
3	D	695	ILE
3	D	703	ASN
3	D	707	THR
3	D	720	LEU
3	D	725	SER
3	D	736	PHE
3	D	743	ASP
3	D	745	MET
3	D	749	VAL
3	D	754	PHE
3	D	758	GLU
3	D	780	LYS
3	D	794	GLN
3	D	796	ARG
3	D	818	ARG
3	D	828	LYS
3	D	836	VAL
3	D	840	LYS

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Mol	Chain	Res	Type
3	D	860	LEU
3	D	862	ASP
3	D	863	VAL
3	D	875	THR
3	D	880	ILE
3	D	888	GLU
3	D	892	ASP
3	D	897	TRP
3	D	899	LEU
3	D	901	GLN
3	D	902	LEU
3	D	904	VAL
3	D	916	TYR
3	D	917	GLN
3	D	921	ARG
3	D	925	GLU
3	D	937	TYR
3	D	948	THR
3	D	951	ILE
3	D	972	LEU
3	D	975	GLU
3	D	976	GLN
3	D	1005	GLN
3	D	1029	ARG
3	D	1031	ASN
3	D	1041	LEU
3	D	1045	MET
3	D	1058	ARG
3	D	1062	ARG
3	D	1068	LEU
3	D	1072	ILE
3	D	1083	ASP
3	D	1096	ARG
3	D	1099	VAL
3	D	1109	GLU
3	D	1115	THR
3	D	1116	ASN
3	D	1135	ARG
3	D	1140	ILE
3	D	1147	ARG
3	D	1155	VAL
3	D	1161	GLU

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Mol	Chain	Res	Type
3	D	1162	GLU
3	D	1166	LEU
3	D	1167	SER
3	D	1182	GLU
3	D	1201	CYS
3	D	1202	GLN
3	D	1204	CYS
3	D	1208	ASP
3	D	1213	ARG
3	D	1221	VAL
3	D	1227	GLN
3	D	1238	MET
3	D	1242	HIS
3	D	1243	THR
3	D	1253	THR
3	D	1254	GLN
3	D	1257	PRO
3	D	1262	LEU
3	D	1264	GLU
3	D	1274	ILE
3	D	1278	ASP
3	D	1285	GLU
3	D	1295	GLU
3	D	1304	LYS
3	D	1311	LEU
3	D	1314	LYS
3	D	1320	GLU
3	D	1326	THR
3	D	1337	GLU
3	D	1346	ARG
3	D	1350	GLU
3	D	1359	GLN
3	D	1382	THR
3	D	1389	LEU
3	D	1395	LEU
3	D	1396	GLU
3	D	1410	GLU
3	D	1426	LYS
3	D	1429	LEU
3	D	1432	LYS
3	D	1434	TRP
3	D	1441	GLN

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Mol	Chain	Res	Type
3	D	1442	ASN
3	D	1447	LEU
3	D	1455	LYS
3	D	1460	ILE
3	D	1462	LEU
3	D	1483	PHE
4	E	30	LEU
4	E	35	PHE
4	E	40	LEU
4	E	42	PRO
4	E	46	PRO
4	E	56	ASP
4	E	59	ASN
4	E	61	GLU
4	E	66	LYS
4	E	77	GLU
4	E	81	PRO
4	E	82	GLU
5	F	84	TYR
5	F	94	LEU
5	F	97	GLU
5	F	105	LYS
5	F	107	GLU
5	F	134	LYS
5	F	136	LEU
5	F	149	GLU
5	F	151	LEU
5	F	152	ASP
5	F	156	VAL
5	F	158	GLU
5	F	168	LYS
5	F	172	ARG
5	F	174	LEU
5	F	181	GLU
5	F	191	ASN
5	F	192	LEU
5	F	195	VAL
5	F	212	LEU
5	F	229	TYR
5	F	234	LYS
5	F	268	ILE
5	F	280	GLN

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Mol	Chain	Res	Type
5	F	282	LEU
5	F	295	MET
5	F	297	PRO
5	F	312	GLN
5	F	313	GLU
5	F	321	ILE
5	F	324	GLU
5	F	328	PHE
5	F	333	ILE
5	F	341	PRO
5	F	347	GLN
5	F	353	GLU
5	F	375	LEU
5	F	384	GLU
5	F	393	THR
5	F	398	ARG
5	F	408	LEU
5	F	410	TYR
5	F	419	ARG
1	K	1	MET
1	K	5	LYS
1	K	16	GLN
1	K	19	GLU
1	K	27	PRO
1	K	38	ASN
1	K	46	SER
1	K	62	LEU
1	K	66	SER
1	K	77	GLU
1	K	79	ILE
1	K	91	ASN
1	K	95	GLN
1	K	96	THR
1	K	106	PRO
1	K	115	LEU
1	K	139	ASN
1	K	146	ARG
1	K	154	GLU
1	K	160	ASP
1	K	163	ASN
1	K	165	ILE
1	K	185	ARG

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Mol	Chain	Res	Type
1	K	186	LEU
1	K	188	GLN
1	K	193	ASP
1	K	196	THR
1	K	205	VAL
1	K	206	THR
1	K	207	PRO
1	K	208	LEU
1	K	219	ARG
1	L	4	SER
1	L	5	LYS
1	L	12	THR
1	L	19	GLU
1	L	26	GLU
1	L	62	LEU
1	L	67	THR
1	L	77	GLU
1	L	95	GLN
1	L	138	LEU
1	L	139	ASN
1	L	140	MET
1	L	176	ARG
1	L	183	ASP
1	L	215	VAL
1	L	223	THR
2	M	2	GLU
2	M	9	ILE
2	M	41	ASN
2	M	42	VAL
2	M	48	PHE
2	M	52	PHE
2	M	57	GLU
2	M	65	VAL
2	M	81	ASP
2	M	82	GLU
2	M	83	CYS
2	M	99	GLN
2	M	104	ASP
2	M	105	THR
2	M	115	LEU
2	M	117	HIS
2	M	146	VAL

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Mol	Chain	Res	Type
2	M	154	ARG
2	M	158	TYR
2	M	168	ARG
2	M	170	PRO
2	M	178	PRO
2	M	181	VAL
2	M	184	MET
2	M	186	VAL
2	M	188	LYS
2	M	190	LYS
2	M	193	LEU
2	M	198	ARG
2	M	207	LEU
2	M	209	ARG
2	M	219	GLN
2	M	226	VAL
2	M	230	ARG
2	M	246	ASP
2	M	252	LYS
2	M	266	ARG
2	M	268	ASP
2	M	269	LEU
2	M	275	TYR
2	M	276	LYS
2	M	290	LEU
2	M	301	GLU
2	M	303	PHE
2	M	321	GLU
2	M	328	LEU
2	M	359	MET
2	M	367	LEU
2	M	376	ARG
2	M	378	LEU
2	M	383	ARG
2	M	384	GLU
2	M	391	LEU
2	M	405	ARG
2	M	418	LEU
2	M	422	ARG
2	M	425	PHE
2	M	433	THR
2	M	441	VAL

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Mol	Chain	Res	Type
2	M	455	LEU
2	M	461	VAL
2	M	480	THR
2	M	482	GLU
2	M	487	THR
2	M	492	ASP
2	M	503	LEU
2	M	511	GLU
2	M	514	VAL
2	M	520	GLU
2	M	523	ILE
2	M	539	VAL
2	M	551	GLU
2	M	564	MET
2	M	566	THR
2	M	579	VAL
2	M	584	GLU
2	M	586	ARG
2	M	626	ARG
2	M	630	ARG
2	M	633	GLN
2	M	640	ARG
2	M	645	VAL
2	M	650	ARG
2	M	665	PHE
2	M	674	VAL
2	M	686	ASP
2	M	689	VAL
2	M	699	PHE
2	M	722	ILE
2	M	738	ASP
2	M	739	GLU
2	M	744	ARG
2	M	745	ILE
2	M	750	LYS
2	M	760	SER
2	M	762	LYS
2	M	764	GLU
2	M	766	GLU
2	M	768	THR
2	M	799	ILE
2	M	807	ARG

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Mol	Chain	Res	Type
2	M	834	GLN
2	M	835	VAL
2	M	839	LEU
2	M	841	ASN
2	M	849	VAL
2	M	853	LEU
2	M	856	GLU
2	M	881	ASN
2	M	886	LEU
2	M	897	LEU
2	M	904	PRO
2	M	934	PHE
2	M	936	VAL
2	M	940	GLU
2	M	941	VAL
2	M	946	ARG
2	M	950	LEU
2	M	958	THR
2	M	959	PRO
2	M	960	GLU
2	M	964	LYS
2	M	974	LEU
2	M	988	VAL
2	M	999	HIS
2	M	1000	MET
2	M	1002	GLU
2	M	1005	MET
2	M	1016	ILE
2	M	1017	THR
2	M	1019	GLN
2	M	1020	PRO
2	M	1043	TYR
2	M	1055	LEU
2	M	1097	LEU
2	M	1104	GLU
2	M	1111	ILE
2	M	1113	GLU
2	M	1115	LEU
3	N	7	LYS
3	N	9	ARG
3	N	12	LEU
3	N	33	ASN

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Mol	Chain	Res	Type
3	N	35	ARG
3	N	42	ASP
3	N	84	ILE
3	N	98	PRO
3	N	116	LEU
3	N	123	LEU
3	N	126	VAL
3	N	128	TYR
3	N	133	ILE
3	N	141	ILE
3	N	143	ASN
3	N	149	LYS
3	N	152	LEU
3	N	153	LEU
3	N	155	ASP
3	N	167	GLU
3	N	171	LEU
3	N	176	ASP
3	N	185	VAL
3	N	208	PRO
3	N	213	VAL
3	N	217	LYS
3	N	218	LYS
3	N	230	TRP
3	N	233	LYS
3	N	240	GLU
3	N	241	ILE
3	N	245	LEU
3	N	250	LEU
3	N	366	LYS
3	N	367	ILE
3	N	374	GLU
3	N	376	GLU
3	N	384	VAL
3	N	385	VAL
3	N	387	LEU
3	N	389	GLU
3	N	406	ASP
3	N	413	ASP
3	N	430	ASP
3	N	432	TYR
3	N	451	ASP

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Mol	Chain	Res	Type
3	N	453	ASP
3	N	456	MET
3	N	473	LEU
3	N	503	LEU
3	N	507	ASN
3	N	526	PRO
3	N	528	VAL
3	N	529	GLN
3	N	535	PHE
3	N	545	ARG
3	N	549	ASN
3	N	554	LEU
3	N	564	GLU
3	N	567	ILE
3	N	569	ASN
3	N	571	LYS
3	N	576	GLU
3	N	578	VAL
3	N	587	ARG
3	N	594	PRO
3	N	600	LEU
3	N	603	LEU
3	N	605	ASP
3	N	606	ILE
3	N	624	ASP
3	N	631	ILE
3	N	637	LEU
3	N	639	LEU
3	N	641	GLN
3	N	646	LYS
3	N	648	MET
3	N	651	GLU
3	N	652	LEU
3	N	662	GLU
3	N	666	ILE
3	N	675	ARG
3	N	676	MET
3	N	693	GLU
3	N	702	LEU
3	N	704	ARG
3	N	711	LEU
3	N	732	VAL

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Mol	Chain	Res	Type
3	N	734	GLU
3	N	739	ASP
3	N	745	MET
3	N	747	VAL
3	N	761	ILE
3	N	763	MET
3	N	770	LEU
3	N	783	ARG
3	N	794	GLN
3	N	799	LYS
3	N	820	GLU
3	N	829	VAL
3	N	832	ARG
3	N	833	GLU
3	N	840	LYS
3	N	841	TYR
3	N	842	VAL
3	N	845	ASN
3	N	859	ASP
3	N	861	GLN
3	N	862	ASP
3	N	863	VAL
3	N	864	VAL
3	N	879	ARG
3	N	899	LEU
3	N	901	GLN
3	N	903	ASP
3	N	911	LEU
3	N	912	LYS
3	N	914	LEU
3	N	917	GLN
3	N	929	ARG
3	N	940	THR
3	N	947	ILE
3	N	951	ILE
3	N	953	ASP
3	N	964	LEU
3	N	972	LEU
3	N	990	ASP
3	N	1007	VAL
3	N	1020	LEU
3	N	1045	MET

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Mol	Chain	Res	Type
3	N	1046	GLN
3	N	1052	THR
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	1096	ARG
3	N	1097	LYS
3	N	1116	ASN
3	N	1119	SER
3	N	1122	LEU
3	N	1127	GLU
3	N	1135	ARG
3	N	1147	ARG
3	N	1148	VAL
3	N	1156	LEU
3	N	1166	LEU
3	N	1168	MET
3	N	1173	LEU
3	N	1182	GLU
3	N	1189	ARG
3	N	1190	SER
3	N	1202	GLN
3	N	1204	CYS
3	N	1207	TYR
3	N	1211	MET
3	N	1213	ARG
3	N	1223	ILE
3	N	1231	GLU
3	N	1238	MET
3	N	1243	THR
3	N	1251	ASP
3	N	1252	ILE
3	N	1264	GLU
3	N	1274	ILE
3	N	1282	ARG
3	N	1314	LYS
3	N	1326	THR
3	N	1337	GLU
3	N	1346	ARG

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Mol	Chain	Res	Type
3	N	1348	LEU
3	N	1351	GLU
3	N	1352	ILE
3	N	1353	GLN
3	N	1375	MET
3	N	1376	MET
3	N	1388	ARG
3	N	1389	LEU
3	N	1393	GLN
3	N	1396	GLU
3	N	1412	LYS
3	N	1419	PRO
3	N	1422	MET
3	N	1425	THR
3	N	1426	LYS
3	N	1429	LEU
3	N	1432	LYS
3	N	1442	ASN
3	N	1447	LEU
3	N	1452	ILE
3	N	1466	VAL
3	N	1481	VAL
3	N	1484	THR
3	N	1488	ASP
4	O	10	PHE
4	O	20	THR
4	O	31	LEU
4	O	42	PRO
4	O	44	GLU
4	O	46	PRO
4	O	59	ASN
4	O	66	LYS
4	O	79	LEU
4	O	81	PRO
4	O	84	ARG
5	P	77	THR
5	P	83	GLN
5	P	84	TYR
5	P	86	HIS
5	P	91	VAL
5	P	101	GLU
5	P	105	LYS

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Mol	Chain	Res	Type
5	P	134	LYS
5	P	148	LYS
5	P	161	GLN
5	P	169	GLU
5	P	174	LEU
5	P	181	GLU
5	P	186	HIS
5	P	194	LEU
5	P	229	TYR
5	P	264	MET
5	P	282	LEU
5	P	285	GLU
5	P	286	PRO
5	P	295	MET
5	P	319	THR
5	P	324	GLU
5	P	326	ASP
5	P	338	LEU
5	P	341	PRO
5	P	350	LEU
5	P	394	ARG
5	P	399	GLN
5	P	405	LEU
5	P	418	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (184) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	63	HIS
1	A	95	GLN
1	A	124	ASN
1	A	163	ASN
1	A	180	GLN
1	A	188	GLN
1	A	227	ASN
1	B	63	HIS
1	B	81	ASN
1	B	124	ASN
1	B	139	ASN
1	B	156	HIS
1	B	163	ASN
1	B	180	GLN

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Mol	Chain	Res	Type
1	B	212	ASN
1	B	229	GLN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	102	HIS
2	C	130	ASN
2	C	187	ASN
2	C	320	HIS
2	C	343	GLN
2	C	431	HIS
2	C	434	HIS
2	C	448	ASN
2	C	498	GLN
2	C	538	GLN
2	C	543	ASN
2	C	545	ASN
2	C	552	HIS
2	C	563	ASN
2	C	609	ASN
2	C	633	GLN
2	C	671	ASN
2	C	704	HIS
2	C	834	GLN
2	C	841	ASN
2	C	889	HIS
2	C	969	GLN
2	C	999	HIS
2	C	1019	GLN
2	C	1100	GLN
3	D	33	ASN
3	D	66	GLN
3	D	101	HIS
3	D	166	GLN
3	D	462	GLN
3	D	507	ASN
3	D	549	ASN
3	D	560	GLN
3	D	575	GLN
3	D	611	GLN
3	D	669	ASN
3	D	680	GLN

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Mol	Chain	Res	Type
3	D	696	HIS
3	D	703	ASN
3	D	709	HIS
3	D	714	GLN
3	D	717	GLN
3	D	724	GLN
3	D	727	GLN
3	D	744	GLN
3	D	756	GLN
3	D	762	GLN
3	D	767	HIS
3	D	794	GLN
3	D	816	HIS
3	D	824	ASN
3	D	845	ASN
3	D	861	GLN
3	D	973	GLN
3	D	991	GLN
3	D	994	GLN
3	D	1033	GLN
3	D	1034	GLN
3	D	1103	HIS
3	D	1202	GLN
3	D	1334	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1441	GLN
3	D	1442	ASN
3	D	1465	ASN
3	D	1485	GLN
3	D	1489	GLN
5	F	83	GLN
5	F	90	GLN
5	F	191	ASN
5	F	254	GLN
1	K	16	GLN
1	K	91	ASN
1	K	95	GLN
1	K	124	ASN
1	K	128	HIS
1	K	156	HIS
1	K	180	GLN

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Mol	Chain	Res	Type
1	K	188	GLN
1	K	213	GLN
1	K	229	GLN
1	L	38	ASN
1	L	95	GLN
1	L	139	ASN
1	L	156	HIS
1	L	163	ASN
1	L	180	GLN
2	M	31	GLN
2	M	41	ASN
2	M	91	GLN
2	M	99	GLN
2	M	117	HIS
2	M	130	ASN
2	M	141	HIS
2	M	343	GLN
2	M	431	HIS
2	M	434	HIS
2	M	500	ASN
2	M	538	GLN
2	M	639	GLN
2	M	829	GLN
2	M	834	GLN
2	M	843	HIS
2	M	845	ASN
2	M	881	ASN
2	M	884	GLN
2	M	889	HIS
2	M	899	GLN
2	M	920	GLN
2	M	969	GLN
2	M	1018	GLN
2	M	1019	GLN
2	M	1100	GLN
3	N	33	ASN
3	N	101	HIS
3	N	151	GLN
3	N	166	GLN
3	N	388	HIS
3	N	462	GLN
3	N	463	GLN

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Mol	Chain	Res	Type
3	N	507	ASN
3	N	529	GLN
3	N	541	ASN
3	N	549	ASN
3	N	551	ASN
3	N	569	ASN
3	N	636	GLN
3	N	703	ASN
3	N	709	HIS
3	N	744	GLN
3	N	748	HIS
3	N	756	GLN
3	N	768	ASN
3	N	794	GLN
3	N	824	ASN
3	N	845	ASN
3	N	855	HIS
3	N	861	GLN
3	N	962	GLN
3	N	991	GLN
3	N	1046	GLN
3	N	1116	ASN
3	N	1202	GLN
3	N	1323	GLN
3	N	1333	HIS
3	N	1334	GLN
3	N	1359	GLN
3	N	1393	GLN
3	N	1441	GLN
3	N	1445	HIS
4	O	29	GLN
4	O	37	ASN
4	O	59	ASN
4	O	86	GLN
5	P	83	GLN
5	P	90	GLN
5	P	175	HIS
5	P	191	ASN
5	P	214	GLN
5	P	217	ASN
5	P	218	GLN
5	P	245	GLN

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Mol	Chain	Res	Type
5	P	263	HIS
5	P	411	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 6 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](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	229/315 (72%)	-1.29	0 100 100	41, 64, 87, 113	0
1	B	229/315 (72%)	-1.07	1 (0%) 88 79	47, 121, 143, 143	0
1	K	229/315 (72%)	-1.25	1 (0%) 88 79	28, 63, 88, 111	0
1	L	229/315 (72%)	-1.27	0 100 100	41, 79, 99, 116	0
2	C	1119/1119 (100%)	-1.22	2 (0%) 91 86	12, 67, 133, 143	0
2	M	1119/1119 (100%)	-1.19	3 (0%) 90 82	6, 71, 122, 133	0
3	D	1392/1524 (91%)	-1.21	7 (0%) 87 76	7, 60, 125, 143	0
3	N	1392/1524 (91%)	-1.17	9 (0%) 85 73	5, 65, 134, 143	0
4	E	95/99 (95%)	-1.21	0 100 100	54, 84, 100, 106	0
4	O	95/99 (95%)	-1.25	0 100 100	46, 86, 117, 121	0
5	F	345/423 (81%)	-1.21	0 100 100	48, 81, 113, 121	0
5	P	345/423 (81%)	-1.26	1 (0%) 90 82	47, 73, 110, 123	0
All	All	6818/7590 (89%)	-1.20	24 (0%) 88 79	5, 70, 129, 143	0

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	D	1247	ALA	6.9
3	N	224	ARG	4.4
3	N	412	GLY	3.8
3	N	1245	GLY	3.3
2	C	180	GLY	3.3
2	M	40	GLU	3.2
3	N	199	LEU	3.0
3	D	410	SER	3.0
5	P	365	GLU	2.9
3	D	801	GLY	2.7
3	N	1246	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	1	MET	2.6
3	D	429	SER	2.6
2	M	61	LYS	2.6
3	N	801	GLY	2.6
3	N	406	ASP	2.6
2	M	764	GLU	2.5
3	D	136	ASP	2.4
3	N	79	GLU	2.4
3	D	802	ALA	2.3
2	C	179	ASN	2.3
3	D	1243	THR	2.2
3	N	182	GLY	2.2
1	K	73	GLU	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
7	MG	D	1527	1/1	0.99	0.02	19,19,19,19	0
6	ZN	D	1526	1/1	1.00	0.01	78,78,78,78	0
6	ZN	N	1525	1/1	1.00	0.02	108,108,108,108	0
6	ZN	N	1526	1/1	1.00	0.01	72,72,72,72	0
6	ZN	D	1525	1/1	1.00	0.01	107,107,107,107	0
7	MG	N	1527	1/1	1.00	0.02	29,29,29,29	0

6.5 Other polymers [i](#)

There are no such residues in this entry.