



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 11:55 PM UTC

PDB ID : 1ZYR / pdb_00001zyr
Title : Structure of Thermus thermophilus RNA polymerase holoenzyme in complex with the antibiotic streptolydigin
Authors : Tuske, S.; Sarafianos, S.G.; Wang, X.; Hudson, B.; Sineva, E.; Mukhopadhyay, J.; Birktoft, J.J.; Leroy, O.; Ismail, S.; Clark, A.D.; Dharia, C.; Napoli, A.; Laptenko, O.; Lee, J.; Borukhov, S.; Ebright, R.H.; Arnold, E.
Deposited on : 2005-06-10
Resolution : 3.00 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](#) ①) were used in the production of this report:

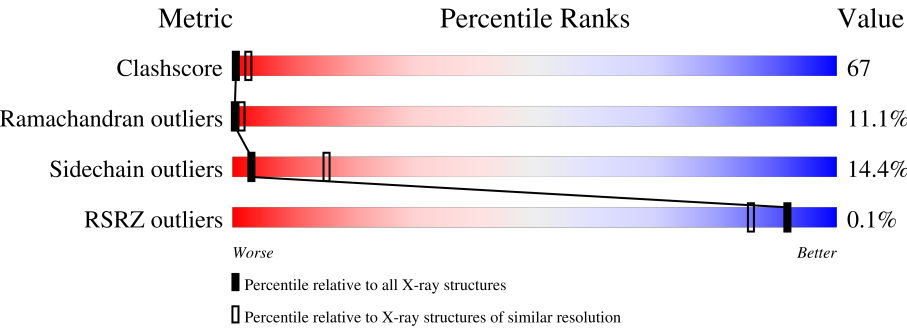
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal 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 3.00 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	2977 (3.00-3.00)
Ramachandran outliers	187476	2877 (3.00-3.00)
Sidechain outliers	187428	2880 (3.00-3.00)
RSRZ outliers	180081	2671 (3.00-3.00)

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	14%42%16%•27%
1	B	315	20%43%10%27%
1	K	315	15%44%12%•27%
1	L	315	20%40%13%27%
2	C	1119	21%57%20%•
2	M	1119	22%57%18%•
3	D	1524	17%50%21%•9%

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Mol	Chain	Length	Quality of chain
3	N	1524	19%50%20%•9%
4	E	99	27%51%14%••
4	O	99	21%54%17%••
5	F	423	19%47%14%•18%
5	P	423	21%48%12%•18%

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 54048 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 subunit 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			

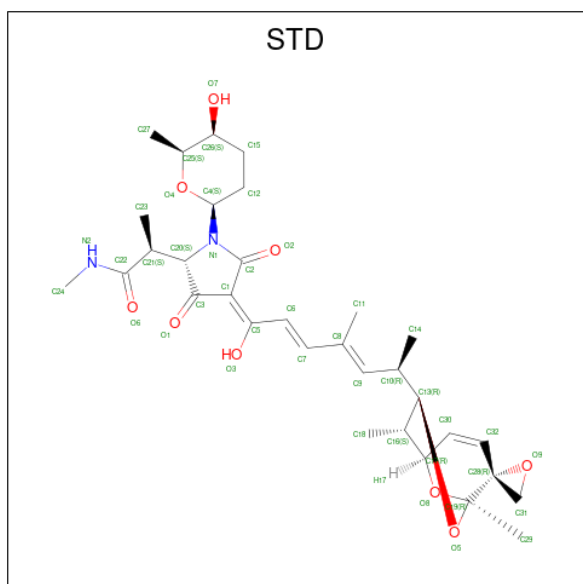
- Molecule 4 is a protein called DNA-directed RNA polymerase omega chain.

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 DNA-directed RNA polymerase sigma chain.

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 STREPTOLYDIGIN (CCD ID: STD) (formula: $C_{32}H_{44}N_2O_9$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	D	1	Total	C	N	O	0	0
			43	32	2	9		
6	M	1	Total	C	N	O	0	0
			43	32	2	9		

- Molecule 7 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

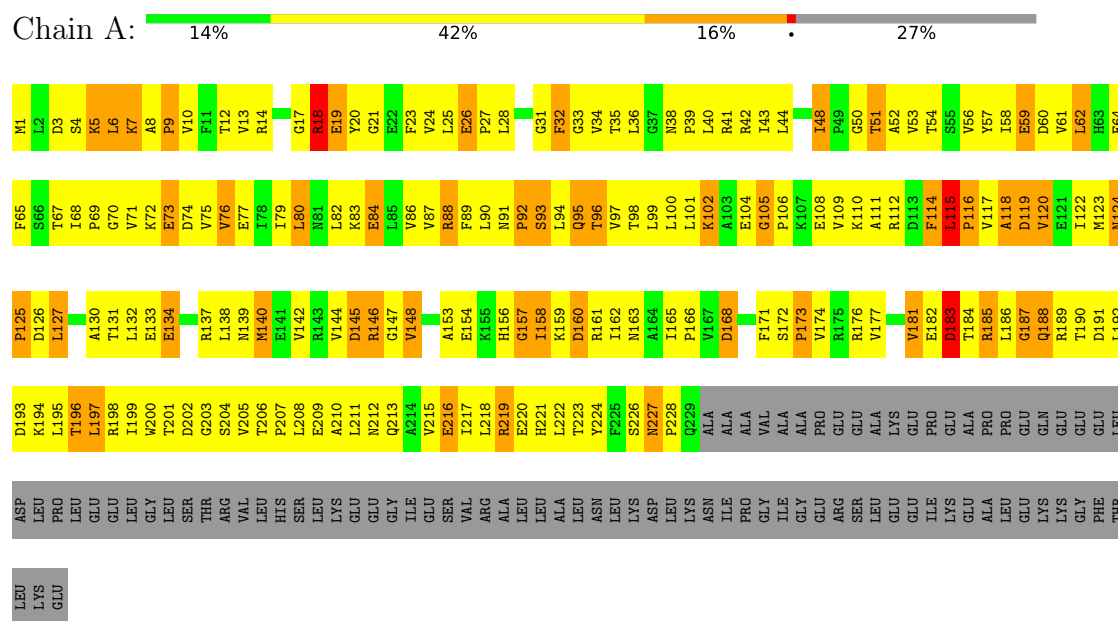
- Molecule 8 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

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

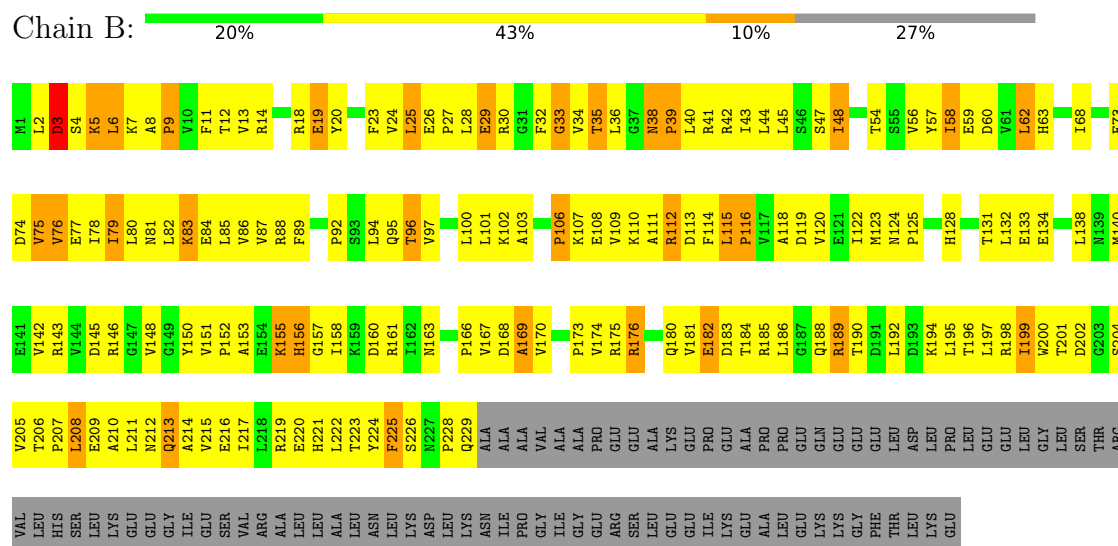
3 Residue-property plots

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

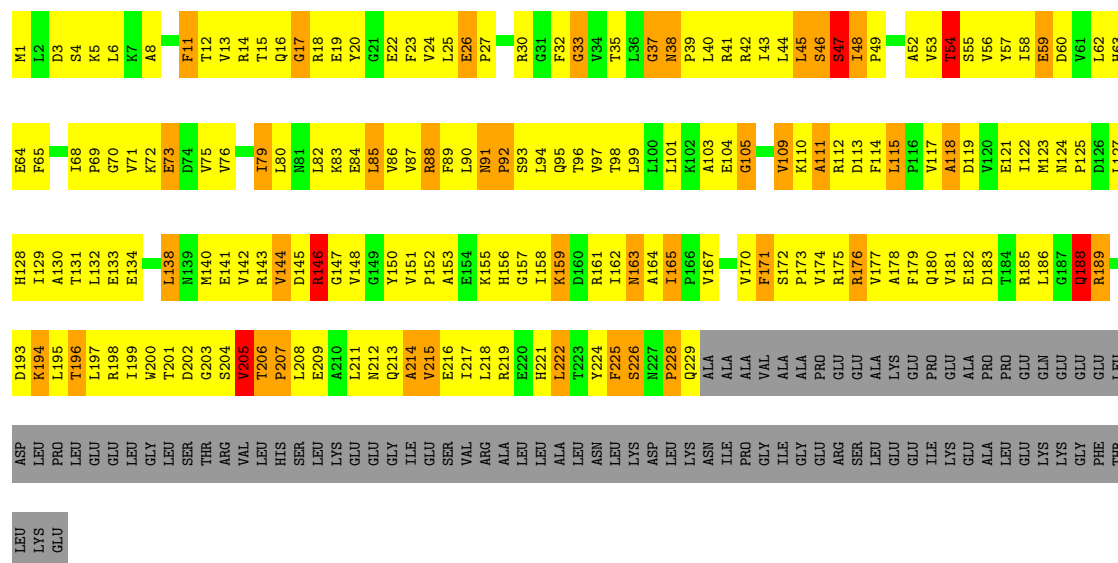


• Molecule 1: DNA-directed RNA polymerase alpha chain

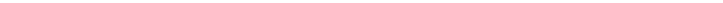


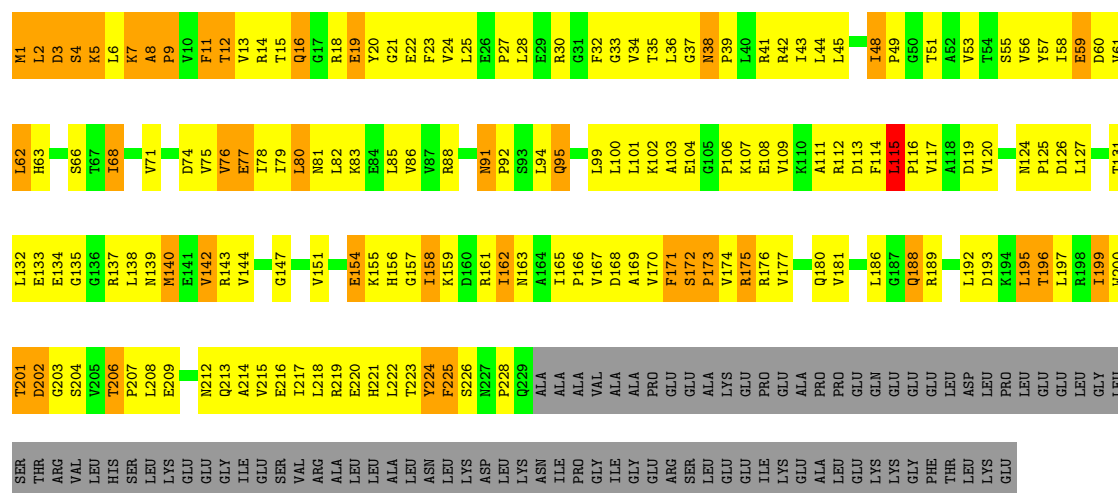
- Molecule 1: DNA-directed RNA polymerase alpha chain

Chain K: 15% 44% 12% 2% 27%



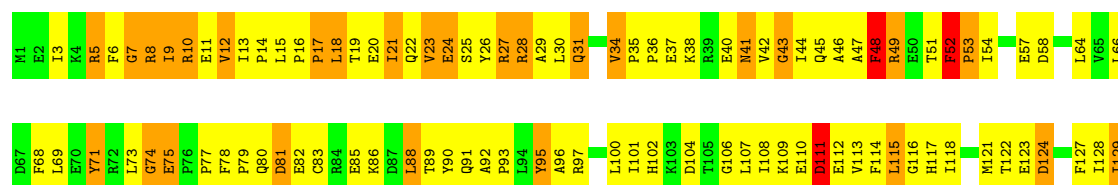
- Molecule 1: DNA-directed RNA polymerase alpha chain

Chain L: 



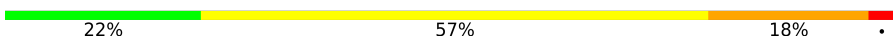
- Molecule 2: DNA-directed RNA polymerase beta chain

Chain C: 21% 57% 20% .



P1082	E1083	S1084	F1085	L1086	V1087	L1088	V1089	K1090	E1091	L1092	Q1093	A1094	L1095	A1096	L1097	D1098	V1099	Q1100	T1101	L1102	D1103	E1104	K1105	N1106	N1107	V1108	V1109	D1110	I1111	F1112	E1113	G1114	L1115	A1116	S1117	K1118	R1119																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
G891	L892	A893	G894	H895	F896	L897	R900	G901	L902	S903	F904	L905	F906	G907	K971	V972	V973	L974	F911	F912	E913	I914	K915	T979	G980	E981	P982	I983	E984	F922	G985	P986	I987	L988	F989	G990	Q927	K991	M992	F993																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
K957	P958	P959	E960	E961	Q962	L963	K964	L965	L966	F967	L968	Q969	G970	K971	V972	V973	L974	F911	F912	E913	I914	K915	T979	G980	E981	P982	I983	E984	F922	G985	P986	I987	L988	F989	G990	Q927	K991	M992	F993																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
G1018	Q1019	P1020	L1021	K1024	F1027	Q1030	R1031	L1032	F1033	E1034	M1035	L1036	V1037	V1038	A1039	L1040	E1041	A1042	Y1043	G1044	A1045	A1046	L1047	T1048	L1049	Q1050	E1051	M1052	L1053	T1054	L1055	L1056	K1057	S1058	D1059	G1062	R1063	A1064	A1065	A1066	Y1067	E1068	A1069	I1070	I1071	K1072	G1073	E1074	D1075	Y1076	P1077	E1078	P1079	S1080	V1081																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
R831	K832	L833	Q834	H835	G836	D837	K838	L839	A840	L841	R842	H843	G844	R845	G847	R848	V849	A850	K851	L852	L853	P854	T855	E856	D857	L858	R859	H860	F861	G795	E796	D863	G864	R865	T866	R867	V868	M869	L870	N871	N872	P873	L874	G875	P877	S878	R879	M880	N881	L882	Q883	R884	L885	L886	E887	T888	H889	L890																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
E764	S765	E766	P767	T768	P769	E770	E771	R772	L773	L774	S775	S776	L777	E780	R781	A782	R783	S784	V785	K786	D787	T788	L789	R790	R791	V792	F793	P794	G795	E796	L797	G800	M801	L802	P803	L804	P805	L806	R807	D808	P809	L809	L810	P811	G812	H813	E814	L815	K816	V817	L818	L819	G820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	L886	L887	L888	L889	L890																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
P699	Y700	T701	H704	T705	V706	E707	R708	E709	L710	R713	S714	L715	L716	L717	L718	A719	E720	R721	T722	T723	R724	E725	L726	F727	R728	L729	S730	E731	L734	R735	L736	L737	D738	E739	E740	G741	V742	V743	R744	A747	E748	V749	K750	P751	L754	L755	G756	L757	L758	L759	L760	L761	L762	L763	L764	L765	L766	L767	L768	L769	L770	L771	L772	L773	L774	L775	L776	L777	L778	L779	L780	L781	L782	L783	L784	L785	L786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796	L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	L886	L887	L888	L889	L890																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
G446	A447	N448	L449	G450	L451	L452	L453	S454	L455	L456	A457	Y458	A459	R460	V461	D462	E463	L464	G465	F466	L467	R468	T469	P470	Y471	R472	R473	G474	V475	V476	V477	V478	V479	V480	V481	V482	V483	V484	V485	V486	V487	V488	V489	V490	V491	V492	V493	V494	V495	V496	V497	V498	V499	V500	V501	V502	V503	V504	V505	V506	V507	V508	V509	V510	V511	V512	V513	V514	V515	V516	V517	V518	V519	V520	V521	V522	V523	V524	V525	V526	V527	V528	V529	V530	V531	V532	V533	V534	V535	V536	V537	V538	V539	V540	V541	V542	V543	V544	V545	V546	V547	V548	V549	V550	V551	V552	V553	V554	V555	V556	V557	V558	V559	V560	V561	V562	V563	V564	V565	V566	V567	V568	V569	V570	V571	V572	V573	V574	V575	V576	V577	V578	V579	V580	V581	V582	V583	V584	V585	V586	V587	V588	V589	V590	V591	V592	V593	V594	V595	V596	V597	V598	V599	V600	V601	V602	V603	V604	V605	V606	V607	V608	V609	V610	V611	V612	V613	V614	V615	V616	V617	V618	V619	V620	V621	V622	V623	V624	V625	V626	V627	V628	V629	V630	V631	V632	V633	V634	V635	V636	V637	V638	V639	V640	V641	V642	V643	V644	V645	V646	V647	V648	V649	V650	V651	V652	V653	V654	V655	V656	V657	V658	V659	V660	V661	V662	V663	V664	V665	V666	V667	V668	V669	V670	V671	V672	V673	V674	V675	V676	V677	V678	V679	V680	V681	V682	V683	V684	V685	V686	V687	V688	V689	V690	V691	V692	V693	V694	V695	V696	V697	V698	V699	V700	V701	V702	V703	V704	V705	V706	V707	V708	V709	V710	V711	V712	V713	V714	V715	V716	V717	V718	V719	V720	V721	V722	V723	V724	V725	V726	V727	V728	V729	V730	V731	V732	V733	V734	V735	V736	V737	V738	V739	V740	V741	V742	V743	V744	V745	V746	V747	V748	V749	V750	V751	V752	V753	V754	V755	V756	V757	V758	V759	V760	V761	V762	V763	V764	V765	V766	V767	V768	V769	V770	V771	V772	V773	V774	V775	V776	V777	V778	V779	V780	V781	V782	V783	V784	V785	V786	V787	V788	V789	V790	V791	V792	V793	V794	V795	V796	V797	V798	V799	V800	V801	V802	V803	V804	V805	V806	V807	V808	V809	V810	V811	V812	V813	V814	V815	V816	V817	V818	V819	V820	V821	V822	V823	V824	V825	V826	V827	V828	V829	V830	V831	V832	V833	V834	V835	V836	V837	V838	V839	V840	V841	V842	V843	V844	V845	V846	V847	V848	V849	V850	V851	V852	V853	V854	V855	V856	V857	V858	V859	V860	V861	V862	V863	V864	V865	V866	V867	V868	V869	V870	V871	V872	V873	V874	V875	V876	V877	V878	V879	V880	V881	V882	V883	V884	V885	V886	V887	V888	V889	V890	V891	V892	V893	V894	V895	V896	V897	V898	V899	V900	V901	V902	V903	V904	V905	V906	V907	V908	V909	V910	V911	V912	V913	V914	V915	V916	V917	V918	V919	V920	V921	V922	V923	V924	V925	V926	V927	V928	V929	V930	V931	V932	V933	V934	V935	V936	V937	V938	V939	V940	V941	V942	V943	V944	V945	V946	V947	V948	V949	V950	V951	V952	V953	V954	V955	V956	V957	V958	V959	V960	V961	V962	V963	V964	V965	V966	V967	V968	V969	V970	V971	V972	V973	V974	V975	V976	V977	V978	V979	V980	V981	V982	V983	V984	V985	V986	V987	V988	V989	V990	V991	V992	V993	V994	V995	V996	V997	V998	V999	V1000	V1001	V1002	V1003	V1004	V1005	V1006	V1007	V1008	V1009	V1010	V1011	V1012	V1013	V1014	V1015	V1016	V1017	V1018	V1019	V1020	V1021	V1022	V1023	V1024	V1025	V1026	V1027	V1028	V1029	V1030	V1031	V1032	V1033	V1034	V1035	V1036	V1037	V1038	V1039	V1040	V1041	V1042	V1043	V1044	V1045	V1046	V1047	V1048	V1049	V1050	V1051	V1052	V1053	V1054	V1055	V1056	V1057	V1058	V1059	V1060	V1061	V1062	V1063	V1064	V1065	V1066	V1067	V1068	V1069	V1070	V1071	V1072	V1073	V1074	V1075	V1076	V1077	V1078	V1079	V1080	V1081
R383	E384	F385	F386	S389	Q390	L391	S392	F393	F394	L395	R396	E397	T398	P399	P400	S403	L404	R405	H406	K407	R408	R409	A412	L413	L414	R415	R416	R417	L418	T419	V352	G353	R354	R355	R356	R357	R358	R359	G362	D426	V427	R428	D429	V430	H431	R432	T433	H434	Y435	L436	A437	Q438	I439	C439	T501	P502	V441	E442	T443	P444	E445																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
H320	E321	V322	D323	D324	L325	D326	H327	L328	G329	N330	R331	R332	I333	R334	L335	G336	T337	L338	D339	R340	R341	R342	R343	R344	R345	R346	G347	L348	R349	R350	L351	R352	G353	R354	R355	R356	R357	R358	R359	G362	D426	V427	R428	D429	V430	H431	R432	T433	H434	Y435	L436	A437	Q438	I439	C439	T501	P502	V441	E442	T443	P444	E445																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
F191	P192	L193	V194	L195	L196	L197	R198	V199	L200	G201	Y202	D203	Q204	E205	T206	L207	A208	R209	E210	L211	G212	A213	Y214	G220	L221	M222	D223	E224	S225	V226	F227	A228	M229	P231	E232	E233	A234	L235	I236	R237	L238	F239	T240	L241	L242	R243	P244	G245	D246	P247	R248	K249	R250	D251	K252	A253	V254																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
A255	Y256	Y257	Y258	G259	L260	L261	A262	D263	R264	R265	R266	Y267	D268	E269	T270	G271	A272	G273	K274	E275	G276	E277	E278	G279	R280	L281	G282	I283	R284	L285	R286	R287	R288	R289	L290	E291	L292	G293	E294	E295	E296	E297	F298	K299	D300	E301	V302	F303	L304	P305	T306	L307	R308	Y309	L310	F311	A312	S313	R314	K315	R316	D317	K318	A319	E320	G321	L322	L323	L324	L325	L326	L327	L328	L329	L330	L331	L332	L333	L334	L335	L336	L337	L338	L339	L340	L341	L342	L343	L344	L345	L346	L347	L348	L349	L350	L351	L352	L353	L354	L355	L356	L357	L358	L359	L360	L361	L362	L363	L364	L365	L366	L367	L368	L369	L370	L371	L372	L373	L374	L375	L376	L377	L378	L379	L380	L381	L382	L383	L384	L385	L386	L387	L388	L389	L390	L391	L392																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

● Molecule 2: DNA-directed RNA polymerase beta chain

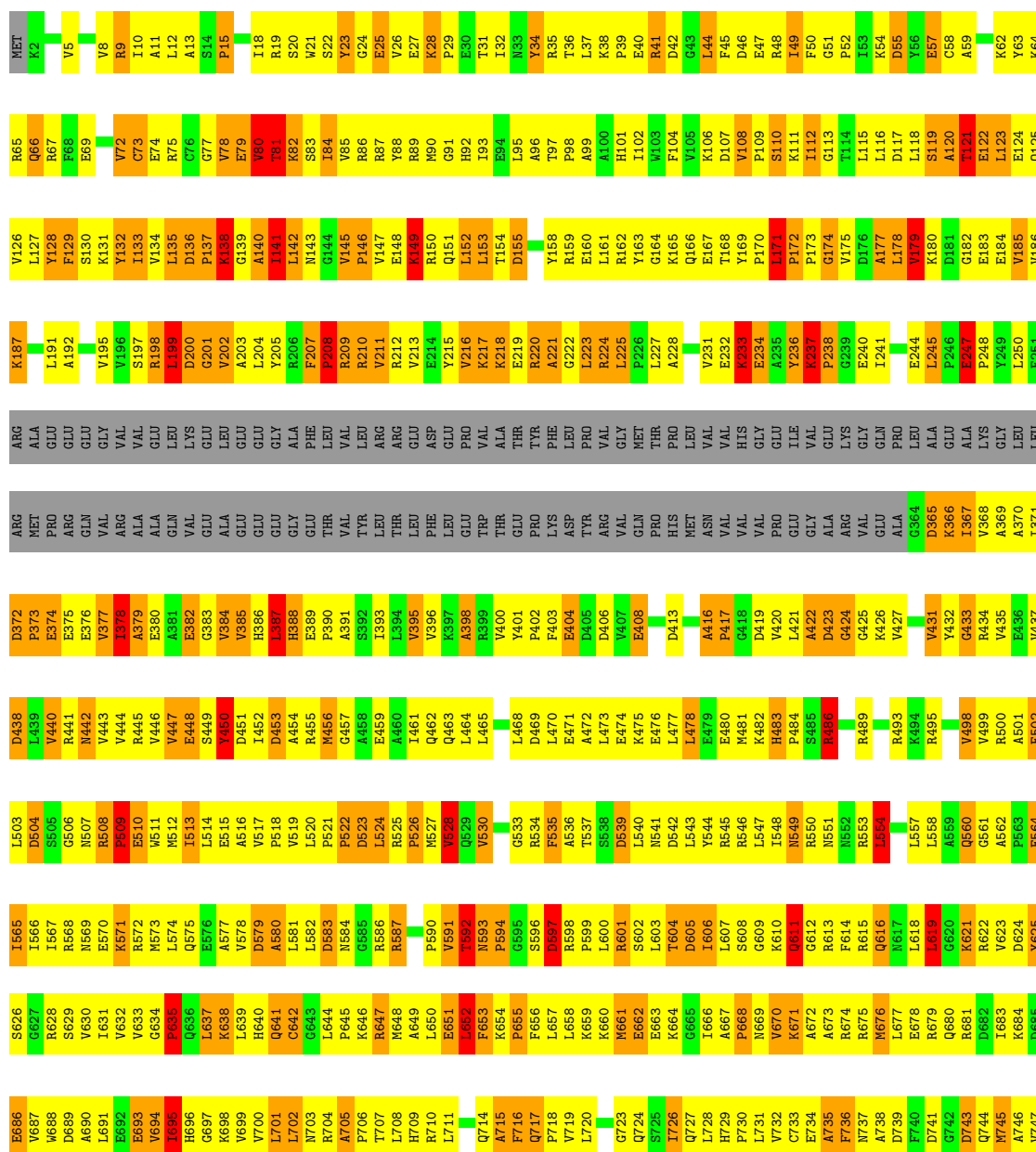
Chain M:  22% 57% 18%

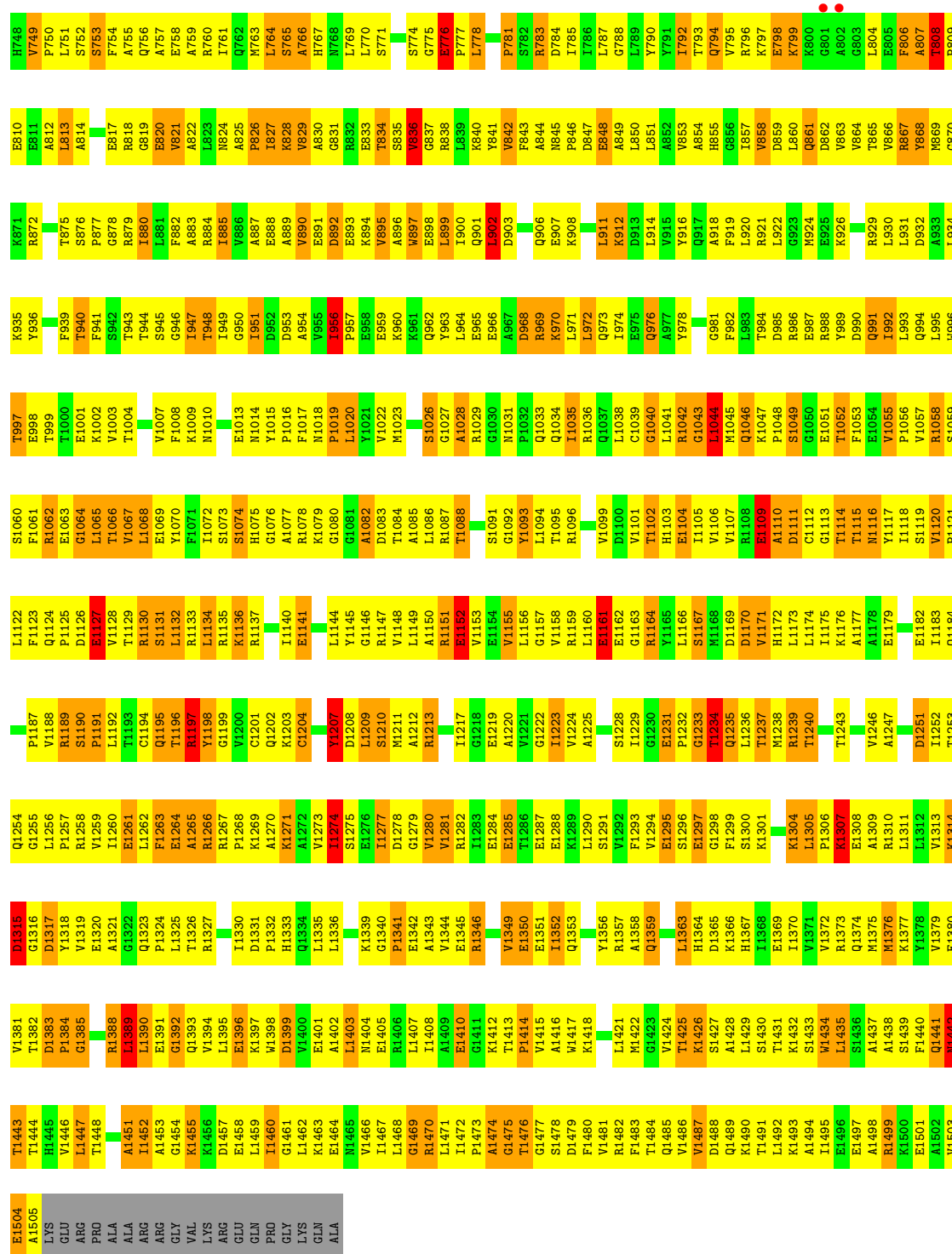
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P904	H843	L774	E709	G646	R586	V522	Y458	E397	G329	A262	L197	V135	E70	E2
I905	G844	R775	I710	Q647	R587	I523	A459	T398	L332	D263	L198	I136	Y71	K4
F906	N845	R776	E711	R648	V588	V524	L459	L401	R332	R264	L199	V137	R72	R5
D907	K846	T777	A712	V649	R589	S525	D462	S402	I333	R265	L200	S138	L73	F6
G908	G847	I777	R713	R650	D590	P526	E463	S403	R334	R266	L201	Q139	G74	G7
A909	V848	F778	D714	K651	S591	E527	L464	S403	T335	Y267	Y202	I140	E75	R8
K910	V849	G779	T715	G652	L592	E530	F466	L404	V336	A272	D203	H141	P76	
E911	L852	E780	K716	D653	P531	E530	I467	R405	G337	R273	L207	R142	P77	I9
P912	L853	R781	L717	L654	A594	E594	L467	H406	E338	G274	A208	F78	P78	R10
E913	P854	A782	G718	L657	L595	D533	P470	R408	L339	Y275	Q809	G145	P79	E11
E916	V855	R783	P719	D657	V596	N533	R470	R409	M340	K276	E210	D81	P80	V12
L917	E856	D784	E720	A660	A597	V534	Y471	R409	T341	A277	L211	V146	D81	I13
L918	D857	V785	R721	R660	E598	S535	R472	T410	D342	E277	L211	E82	P14	
A919	R858	T722	T723	S535	E599	P536	R473	S411	Q343	E278	G212	C83	L15	L15
Q920	P859	R724	R723	N663	D600	K537	V474	A412	F344	K280	Y214	P150	P16	P17
H921	R860	V791	D725	G664	G601	Q536	V475	L413	R340	K280	Q215	D151	K86	P17
F922	L861	V792	I726	F665	E602	V539	G476	G414	F344	L281	G215	P152	D87	L18
E923	P862	L792	P727	L666	V603	E539	G477	P415	G347	G282	E216	A152	L88	T19
V924	R863	G795	H728	A667	A604	N543	V478	G416	L348	L283	L217	R154	E20	E20
Y925	G864	E796	L729	G668	K605	T544	V479	G417	A349	R284	V218	A154	Y90	I21
F926	T865	G797	S730	L669	V606	N545	T480	L418	R350	L285	L217	R154	Y90	I21
G927	P866	G798	E731	Q670	D607	L546	D481	T419	L351	S286	L221	Y158	A92	
R928	V867	I799	A732	V672	N609	P646	E482	R420	A320	R288	D223	I159	P93	
R929	D868	R800	A733	L673	R610	F549	V484	R422	G354	T289	E224	A160	Y95	
K930	V869	V801	L734	V674	I611	L550	V485	A423	V355	L290	S225	I162	A96	A29
F934	L871	R805	R735	A675	V612	E551	R486	C424	R356	A291	V226	I163	L30	
K938	R872	L806	D736	L676	H613	H552	T487	F425	E357	R292	F227	P164	R97	Q31
R939	P873	R807	D738	M677	R614	D553	A488	D426	R358	F293	A228	L165	L100	A32
E940	G875	D810	E739	P678	E616	D594	E491	R428	M359	G296	M229	P166	I101	R39
P941	R876	P811	G741	D680	R617	N556	D492	D429	S366	D300	R230	K167	H102	E40
F942	N877	R812	V742	G681	G618	R557	R493	V430	E232	E301	P231	K103	D104	E41
V943	R878	G813	V743	N682	R619	A558	Y494	H431	L367	V302	E233	D105	V42	V42
L944	S879	E814	R744	L684	L620	L589	T495	R432	T368	V302	E234	G106	G43	G43
R945	R880	L814	R744	E685	V621	M560	L496	T433	P369	F303	L235	L107	L14	
R946	N881	L818	K750	D886	E623	Q561	L496	T433	P369	F303	L235	L107	L14	
E947	L882	V819	P751	A687	P624	N563	A499	G436	A370	L304	I236	D173	G109	Q45
Q948	G883	R820	G752	L688	L625	V569	A499	G436	A370	L304	I236	D173	K109	A46
K949	R884	E821	G752	V689	R626	Q565	N500	R437	L372	T306	R237	L174	E110	A47
L950	L885	R822	D753	L690	R627	Q565	T501	L438	V373	L307	F239	V176	D111	F48
R951	G886	V822	R754	S691	F628	S562	P502	C439	N374	R308	T240	E177	E112	R49
L952	E887	R824	L755	E692	Y629	A568	L503	P440	S375	Y309	L241	P178	V113	E50
V953	T888	G832	V756	G693	R630	V569	E504	V441	F311	L310	L242	N179	F114	T51
H899	R889	E827	G757	L694	R630	L568	G505	E442	A312	R243	R243	G180	L115	F52
P955	L890	R828	R758	L695	N632	P570	N506	T443	L378	G312	G245	V182	G116	P53
G956	G891	Q829	T759	K696	Q633	L571	R507	P444	E379	T314	D246	V182	H117	I54
K957	R892	R829	T759	R697	Q634	L572	I508	E445	R383	A315	P247	S183	I118	I54
T958	A893	R831	S760	R697	G634	R573	E511	G446	E384	A315	P247	M184	P119	
P959	G894	R832	F761	D698	T635	A574	R512	A447	F385	P318	K249	K185	M120	D58
Q960	V895	L833	K762	F699	A636	Q575	R512	N448	G319	G319	K249	V186	M121	K59
E961	E961	Q834	G763	Y700	L637	A576	V513	L449	H390	K390	R250	N187	T122	G60
	F896		E764	T701	D633	P577	V514	C450	E321	E321	K252	K188	E123	R61
Q962	L897	R837	S765	S702	Q639	P578	A515	L451	V322	R322	A253	R189	D124	G82
L963	G898	D837	E766	R703	R640	V579	R516	L452	G323	G323	L391	F192	F127	G63
R964	K899	R838	P767	H704	P641	N580	R517	T453	D324	D324	Y256	P192	I128	K59
E965	R900	L839	T768	I705	R642	E580	K518	S454	Q393	R325	Y256	L193	I129	G60
V966	Y901	R840	P769	E706	V643	L583	G519	L455	F394	D326	G260	V194	N130	R57
Q967	T902	N941	E770	R707	V643	E583	E590	A156	R395	P227	L269	F194	N130	D67



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

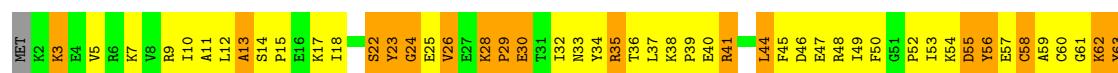
Chain D: 17% 50% 21% 9%



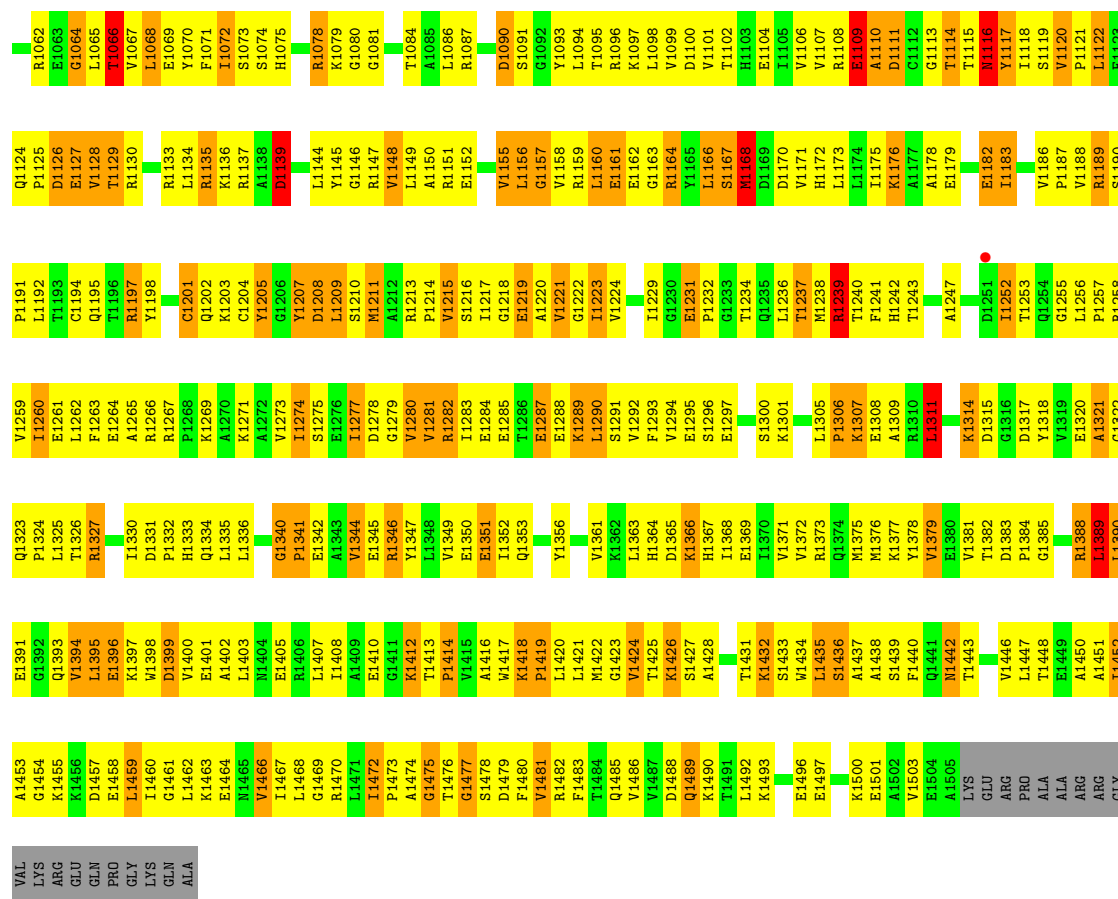


• Molecule 3: DNA-directed RNA polymerase subunit beta' chain

Chain N: 19% 50% 20% 9%

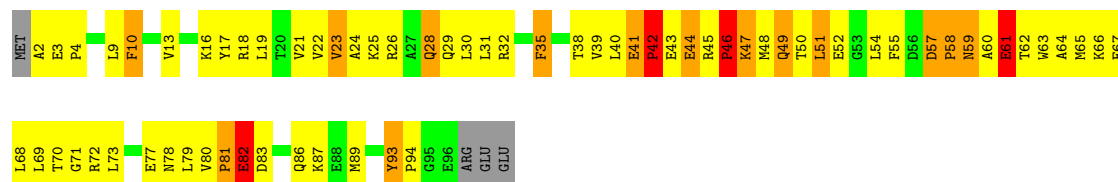






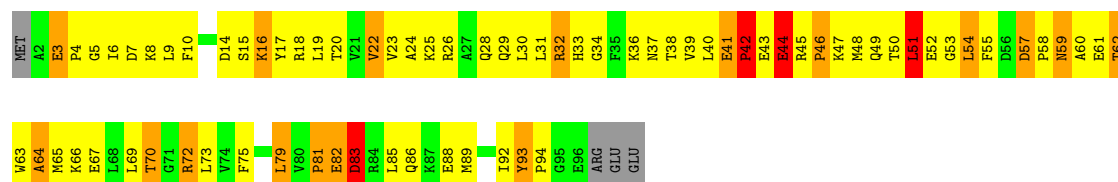
• Molecule 4: DNA-directed RNA polymerase omega chain

Chain E: 27% 51% 14%



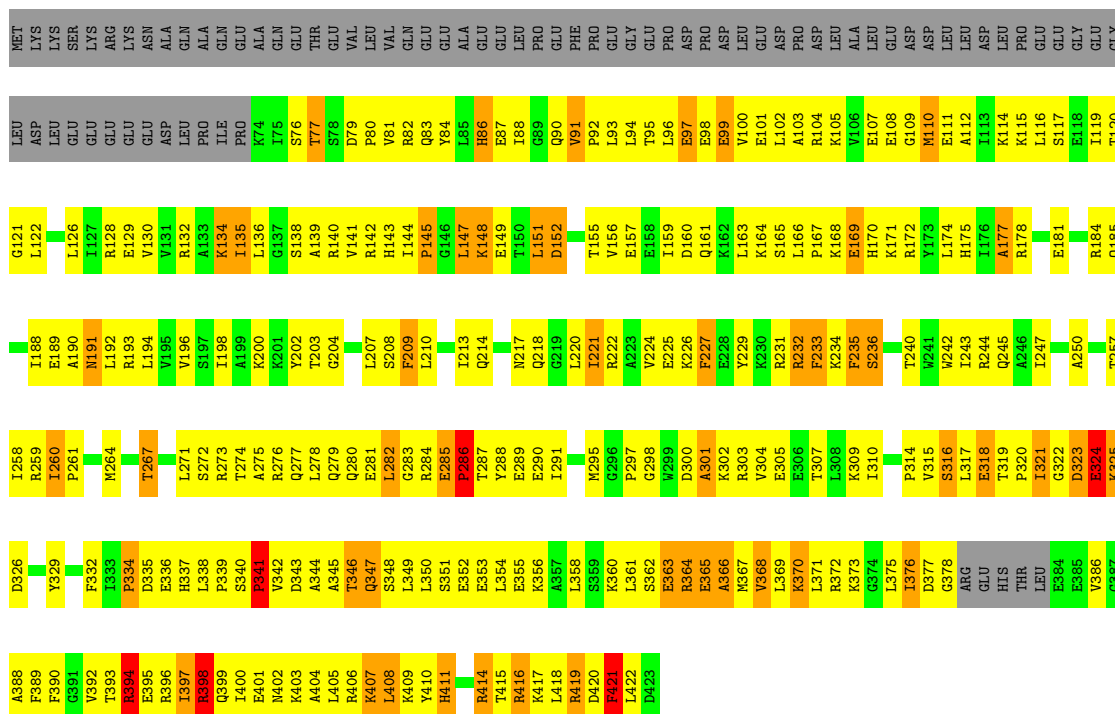
• Molecule 4: DNA-directed RNA polymerase omega chain

Chain O: 21% 54% 17%



• Molecule 5: DNA-directed RNA polymerase sigma chain

Chain F: 19% 47% 14% 18%



4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	237.00Å 237.00Å 250.00Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	30.00 – 3.00 30.00 – 3.00	Depositor EDS
% Data completeness (in resolution range)	77.9 (30.00-3.00) 42.8 (30.00-3.00)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.12 (at 3.00Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.261 , 0.281 0.254 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	71.1	Xtriage
Anisotropy	0.354	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.20 , 0.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	0.499 for -h,-k,l 0.499 for h,-h-k,-l 0.044 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	54048	wwPDB-VP
Average B, all atoms (Å ²)	71.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.81% 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: STD, 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	0.53	0/1838	1.17	21/2498 (0.8%)
1	B	0.50	0/1838	1.01	9/2498 (0.4%)
1	K	0.57	0/1838	1.10	10/2498 (0.4%)
1	L	0.48	0/1838	1.07	19/2498 (0.8%)
2	C	0.55	1/8997 (0.0%)	1.22	111/12164 (0.9%)
2	M	0.55	1/8997 (0.0%)	1.19	103/12164 (0.8%)
3	D	0.56	0/11165	1.22	127/15088 (0.8%)
3	N	0.56	0/11165	1.20	122/15088 (0.8%)
4	E	0.51	0/783	1.22	14/1054 (1.3%)
4	O	0.51	0/783	1.25	15/1054 (1.4%)
5	F	0.49	0/2836	1.13	31/3812 (0.8%)
5	P	0.49	0/2836	1.12	25/3812 (0.7%)
All	All	0.54	2/54914 (0.0%)	1.19	607/74228 (0.8%)

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
2	C	0	1
3	D	0	1
3	N	0	1
All	All	0	3

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	M	564	MET	SD-CE	5.72	1.93	1.79
2	C	880	MET	SD-CE	5.46	1.93	1.79

All (607) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	728	HIS	N-CA-C	17.20	131.49	111.71
3	N	207	PHE	CA-C-N	13.63	136.87	119.84
3	N	207	PHE	C-N-CA	13.63	136.87	119.84
3	D	207	PHE	CA-C-N	13.06	136.16	119.84
3	D	207	PHE	C-N-CA	13.06	136.16	119.84
3	N	1209	LEU	N-CA-C	-12.81	91.50	110.46
3	N	1127	GLU	N-CA-C	-12.55	94.93	112.13
3	N	508	ARG	CA-C-N	12.44	135.38	119.84
3	N	508	ARG	C-N-CA	12.44	135.38	119.84
3	D	1209	LEU	N-CA-C	-12.31	92.00	108.24
3	D	81	THR	N-CA-C	-12.18	89.51	108.76
3	D	508	ARG	CA-C-N	12.05	134.91	119.84
3	D	508	ARG	C-N-CA	12.05	134.91	119.84
3	D	1109	GLU	N-CA-C	11.94	124.50	108.38
3	D	198	ARG	N-CA-C	11.91	125.74	111.33
2	C	729	LEU	N-CA-C	11.70	128.24	112.68
2	C	417	GLY	N-CA-C	-11.41	100.37	115.32
3	D	379	ALA	N-CA-C	-11.39	98.60	111.82
4	O	49	GLN	N-CA-C	10.97	130.53	113.19
2	M	903	SER	CA-C-N	10.95	131.66	119.83
2	M	903	SER	C-N-CA	10.95	131.66	119.83
3	N	597	ASP	N-CA-C	-10.93	100.69	112.93
2	M	246	ASP	CA-C-N	10.93	127.53	119.66
2	M	246	ASP	C-N-CA	10.93	127.53	119.66
3	D	387	LEU	N-CA-C	10.84	120.96	108.49
2	C	728	HIS	N-CA-C	10.83	127.49	111.02
3	D	806	PHE	N-CA-C	10.81	123.06	111.28
3	D	619	LEU	N-CA-C	-10.47	99.82	112.59
2	C	981	GLU	CA-C-N	10.46	130.22	119.76
2	C	981	GLU	C-N-CA	10.46	130.22	119.76
2	C	591	SER	N-CA-C	-10.15	94.89	109.31
3	D	171	LEU	CA-C-N	10.03	130.71	120.38
3	D	171	LEU	C-N-CA	10.03	130.71	120.38
2	C	177	GLU	CA-C-N	9.90	132.21	119.84
2	C	177	GLU	C-N-CA	9.90	132.21	119.84
2	C	481	ASP	N-CA-C	-9.88	100.06	114.39
5	P	411	HIS	N-CA-C	-9.71	101.93	113.88
3	D	380	GLU	N-CA-C	-9.64	94.82	107.73
3	N	1128	VAL	N-CA-C	-9.51	96.28	109.21
3	N	619	LEU	N-CA-C	-9.40	101.74	113.02
2	M	941	VAL	N-CA-C	-9.38	104.80	113.71
3	N	1288	GLU	N-CA-C	9.24	121.12	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	74	GLU	N-CA-C	9.05	121.14	111.28
3	N	379	ALA	N-CA-C	-9.03	101.41	111.07
3	D	1476	THR	N-CA-C	-8.99	101.86	112.92
2	C	398	THR	N-CA-C	-8.97	101.50	111.28
3	D	723	GLY	N-CA-C	8.97	126.19	110.95
2	M	442	GLU	N-CA-C	8.96	122.02	111.71
3	N	1109	GLU	N-CA-C	8.95	124.02	110.14
3	N	1399	ASP	N-CA-C	-8.92	102.55	113.97
5	F	373	LYS	N-CA-C	-8.90	101.53	111.14
3	N	525	ARG	CA-C-N	8.84	128.90	119.89
3	N	525	ARG	C-N-CA	8.84	128.90	119.89
3	N	690	ALA	N-CA-C	-8.84	101.60	111.14
3	N	155	ASP	N-CA-C	-8.83	101.62	111.07
2	M	1107	ASN	CA-C-N	8.77	130.80	119.84
2	M	1107	ASN	C-N-CA	8.77	130.80	119.84
3	N	210	ARG	N-CA-C	8.76	121.83	110.53
2	C	950	LEU	N-CA-C	-8.67	101.91	111.36
3	D	1116	ASN	N-CA-C	-8.66	99.09	110.53
3	D	1110	ALA	N-CA-C	-8.56	95.97	109.23
1	L	204	SER	N-CA-C	-8.53	103.47	114.04
2	M	508	ILE	N-CA-C	-8.52	98.65	109.30
1	A	115	LEU	CA-C-N	8.44	130.40	119.84
1	A	115	LEU	C-N-CA	8.44	130.40	119.84
3	D	1285	GLU	N-CA-C	8.43	122.09	112.57
5	F	88	ILE	N-CA-C	-8.41	103.09	110.74
2	M	39	ARG	N-CA-C	8.36	120.08	110.97
3	D	422	ALA	N-CA-C	-8.30	98.80	110.50
3	N	143	ASN	N-CA-C	-8.28	102.61	114.12
3	D	28	LYS	CA-C-N	8.27	128.47	119.87
3	D	28	LYS	C-N-CA	8.27	128.47	119.87
4	E	49	GLN	N-CA-C	8.26	127.20	114.64
3	N	80	VAL	N-CA-C	8.25	119.57	108.27
2	C	980	GLY	N-CA-C	-8.20	104.93	114.69
3	D	478	LEU	N-CA-C	-8.20	102.29	111.07
2	M	177	GLU	CA-C-N	8.18	130.06	119.84
2	M	177	GLU	C-N-CA	8.18	130.06	119.84
3	D	1474	ALA	N-CA-C	8.16	115.47	108.78
3	N	1239	ARG	N-CA-C	8.15	128.16	110.80
2	M	892	LEU	N-CA-C	-8.14	102.49	111.36
3	N	1116	ASN	N-CA-C	-8.11	97.14	109.79
2	M	1058	ASP	N-CA-C	8.07	123.67	112.45
2	C	318	PRO	N-CA-C	-8.07	103.00	113.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	262	ALA	N-CA-C	8.06	123.40	112.68
2	C	731	GLU	N-CA-C	-8.06	103.59	113.50
2	C	726	ILE	CA-C-N	8.05	129.90	119.84
2	C	726	ILE	C-N-CA	8.05	129.90	119.84
3	N	968	ASP	N-CA-C	-8.03	102.61	111.36
2	C	1019	GLN	CA-C-N	8.02	129.86	119.84
2	C	1019	GLN	C-N-CA	8.02	129.86	119.84
2	M	243	ARG	CA-C-N	8.02	129.86	119.84
2	M	243	ARG	C-N-CA	8.02	129.86	119.84
3	D	737	ASN	N-CA-C	-8.01	97.62	109.15
2	M	262	ALA	N-CA-C	8.01	123.45	111.04
2	C	12	VAL	N-CA-C	7.94	118.00	110.53
3	D	564	GLU	N-CA-C	7.92	120.69	111.02
3	N	1157	GLY	N-CA-C	-7.92	104.92	115.21
2	M	318	PRO	N-CA-C	-7.90	103.99	113.86
2	C	1017	THR	N-CA-C	-7.88	100.13	110.53
3	D	956	ILE	CA-C-N	7.84	127.60	119.76
3	D	956	ILE	C-N-CA	7.84	127.60	119.76
3	D	34	TYR	N-CA-C	7.80	119.86	111.36
3	N	198	ARG	N-CA-C	7.78	127.38	110.80
1	A	168	ASP	N-CA-C	-7.77	100.25	110.43
4	O	62	THR	N-CA-C	-7.75	103.70	113.01
3	D	976	GLN	N-CA-C	-7.73	100.91	112.04
1	K	91	ASN	CA-C-N	7.70	129.47	119.84
1	K	91	ASN	C-N-CA	7.70	129.47	119.84
2	C	1078	GLU	CA-C-N	7.62	129.37	119.84
2	C	1078	GLU	C-N-CA	7.62	129.37	119.84
2	C	1105	LYS	N-CA-C	-7.62	100.26	110.55
3	N	81	THR	N-CA-C	-7.60	96.98	108.46
5	F	287	THR	N-CA-C	-7.57	100.33	110.55
1	L	7	LYS	N-CA-C	-7.57	104.95	112.97
2	C	416	GLY	N-CA-C	-7.55	105.70	114.69
4	E	51	LEU	N-CA-C	-7.52	96.84	108.42
5	P	97	GLU	N-CA-C	7.52	119.56	111.36
1	K	15	THR	N-CA-C	7.50	121.47	109.24
3	N	1418	LYS	CA-C-N	-7.50	112.04	119.76
3	N	1418	LYS	C-N-CA	-7.50	112.04	119.76
3	D	593	ASN	CA-C-N	7.48	129.19	119.84
3	D	593	ASN	C-N-CA	7.48	129.19	119.84
3	D	1126	ASP	N-CA-C	7.46	121.70	109.24
5	F	279	GLN	N-CA-C	-7.45	102.84	112.23
4	E	61	GLU	N-CA-C	7.43	120.25	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	730	SER	N-CA-C	7.39	120.15	109.14
1	L	91	ASN	CA-C-N	7.38	127.09	119.56
1	L	91	ASN	C-N-CA	7.38	127.09	119.56
2	M	243	ARG	N-CA-C	7.36	126.07	109.81
2	M	239	PHE	N-CA-C	-7.35	104.12	113.23
3	D	1469	GLY	N-CA-C	-7.35	104.42	115.00
2	M	163	ILE	N-CA-C	7.32	116.07	107.73
3	D	1399	ASP	N-CA-C	-7.30	104.34	113.18
3	N	100	ALA	N-CA-C	7.30	121.32	110.52
5	F	265	VAL	N-CA-C	-7.30	104.62	111.48
3	D	1210	SER	N-CA-C	-7.29	103.33	111.28
3	D	1352	ILE	N-CA-C	-7.29	103.68	110.53
5	F	340	SER	CA-C-N	7.27	128.92	119.84
5	F	340	SER	C-N-CA	7.27	128.92	119.84
3	D	827	ILE	N-CA-C	-7.25	106.43	113.53
3	N	199	LEU	N-CA-C	7.22	120.40	108.48
5	F	218	GLN	N-CA-C	-7.20	103.60	112.38
3	N	811	GLU	N-CA-C	-7.19	104.11	113.17
2	M	863	ASP	N-CA-C	-7.16	101.29	110.53
4	O	83	ASP	N-CA-C	7.16	119.76	111.02
2	C	243	ARG	CA-C-N	7.14	128.77	119.84
2	C	243	ARG	C-N-CA	7.14	128.77	119.84
2	M	59	LYS	N-CA-C	-7.13	102.88	112.94
2	C	129	ILE	N-CA-C	7.12	117.67	111.90
3	N	1168	MET	N-CA-C	-7.12	103.58	112.90
2	M	439	CYS	CA-C-N	7.09	126.72	119.56
2	M	439	CYS	C-N-CA	7.09	126.72	119.56
3	D	172	PRO	N-CA-C	7.09	119.35	110.70
1	K	33	GLY	N-CA-C	-7.08	104.07	112.64
4	O	54	LEU	N-CA-C	-7.07	101.63	111.81
2	C	938	LYS	N-CA-C	-7.07	104.74	113.15
2	M	566	THR	N-CA-C	-7.06	103.77	112.38
3	N	1383	ASP	CA-C-N	7.04	128.64	119.84
3	N	1383	ASP	C-N-CA	7.04	128.64	119.84
2	M	559	LEU	N-CA-C	-7.02	103.23	111.03
3	N	172	PRO	N-CA-C	7.00	119.24	110.70
3	D	528	VAL	N-CA-C	6.99	119.94	109.17
3	N	23	TYR	N-CA-C	-6.99	98.34	109.59
2	C	569	VAL	CA-C-N	6.95	128.52	119.84
2	C	569	VAL	C-N-CA	6.95	128.52	119.84
3	D	1239	ARG	N-CA-C	6.94	125.58	110.80
3	N	1489	GLN	N-CA-C	-6.93	104.30	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	374	GLU	N-CA-C	6.89	117.57	108.07
5	P	279	GLN	N-CA-C	-6.89	103.79	111.71
1	A	7	LYS	N-CA-C	-6.88	104.63	113.16
2	C	414	GLY	CA-C-N	6.85	126.66	119.05
2	C	414	GLY	C-N-CA	6.85	126.66	119.05
3	D	209	ARG	N-CA-C	6.85	125.39	110.80
1	L	48	ILE	CA-C-N	6.84	126.77	120.21
1	L	48	ILE	C-N-CA	6.84	126.77	120.21
5	P	260	ILE	CA-C-N	6.81	126.85	119.90
5	P	260	ILE	C-N-CA	6.81	126.85	119.90
4	O	37	ASN	N-CA-C	-6.80	103.95	113.20
3	N	725	SER	N-CA-C	6.80	120.24	110.24
3	D	842	VAL	N-CA-C	-6.78	98.98	108.27
3	N	482	LYS	N-CA-C	6.76	120.98	112.87
2	C	319	GLY	N-CA-C	-6.74	97.22	113.18
1	L	225	PHE	N-CA-C	-6.72	100.24	109.71
2	M	1043	TYR	N-CA-C	-6.71	102.15	110.41
2	M	1041	GLU	N-CA-C	-6.70	104.05	111.36
5	P	397	ILE	N-CA-C	-6.70	104.48	111.58
2	M	323	ASP	N-CA-C	6.70	119.61	108.96
5	F	407	LYS	N-CA-C	-6.69	103.99	111.28
3	N	589	ALA	CA-C-N	6.68	128.20	119.84
3	N	589	ALA	C-N-CA	6.68	128.20	119.84
5	P	316	SER	N-CA-C	6.68	119.02	108.67
3	D	208	PRO	N-CA-C	6.67	126.20	112.47
1	A	32	PHE	N-CA-C	-6.67	105.30	113.50
4	O	50	THR	N-CA-C	-6.67	104.09	111.82
1	A	154	GLU	N-CA-C	-6.66	105.12	113.18
2	M	481	ASP	N-CA-C	-6.66	105.13	112.72
2	M	569	VAL	N-CA-C	6.64	113.60	107.56
3	N	441	ARG	N-CA-C	-6.63	99.08	108.96
3	D	1157	GLY	N-CA-C	-6.63	107.00	115.42
3	N	247	GLU	N-CA-C	6.62	121.75	112.75
3	N	133	ILE	N-CA-C	6.62	118.97	109.51
2	C	8	ARG	N-CA-C	6.61	119.50	108.13
5	F	234	LYS	N-CA-C	6.61	118.83	110.24
2	C	655	LEU	N-CA-C	-6.60	103.09	112.13
3	N	79	GLU	N-CA-C	-6.60	102.29	110.41
2	M	964	LYS	N-CA-C	-6.59	104.02	111.14
3	D	820	GLU	N-CA-C	-6.59	103.58	111.69
1	B	48	ILE	CA-C-N	6.59	126.55	119.76
1	B	48	ILE	C-N-CA	6.59	126.55	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	1477	GLY	N-CA-C	-6.58	106.70	115.32
2	C	329	GLY	N-CA-C	-6.57	104.17	115.61
3	D	991	GLN	N-CA-C	-6.57	104.04	111.07
3	D	80	VAL	N-CA-C	6.57	123.00	109.34
2	C	858	MET	CA-C-N	6.56	128.04	119.84
2	C	858	MET	C-N-CA	6.56	128.04	119.84
3	D	502	PHE	N-CA-C	-6.54	103.84	110.97
3	D	597	ASP	N-CA-C	-6.51	105.72	113.21
2	M	3	ILE	N-CA-C	6.50	116.99	107.37
3	N	140	ALA	N-CA-C	6.50	118.02	111.07
3	N	376	GLU	N-CA-C	6.49	116.63	108.45
3	N	1176	LYS	N-CA-C	-6.48	103.72	111.69
3	N	1389	LEU	N-CA-C	6.48	124.60	110.80
3	N	1344	VAL	N-CA-C	-6.47	104.34	110.42
3	D	821	VAL	N-CA-C	-6.47	104.89	112.98
2	C	865	THR	CA-C-N	6.46	127.92	119.84
2	C	865	THR	C-N-CA	6.46	127.92	119.84
2	M	319	GLY	N-CA-C	-6.46	97.86	113.18
2	C	440	PRO	N-CA-C	-6.46	106.42	114.68
1	L	142	VAL	N-CA-C	6.45	116.92	107.37
2	C	1099	VAL	CB-CA-C	-6.44	104.12	111.59
2	C	321	GLU	N-CA-C	6.42	120.69	112.34
2	C	810	ASP	CA-C-N	6.41	127.86	119.84
2	C	810	ASP	C-N-CA	6.41	127.86	119.84
3	N	798	GLU	N-CA-C	6.41	119.65	109.65
3	D	23	TYR	N-CA-C	-6.40	102.84	111.87
5	P	99	GLU	N-CA-C	-6.40	103.92	111.03
1	B	33	GLY	N-CA-C	-6.40	104.76	113.27
2	M	729	LEU	N-CA-C	6.40	124.43	110.80
2	C	213	ALA	N-CA-C	-6.40	105.33	113.01
1	A	173	PRO	N-CA-C	-6.39	105.29	114.18
2	C	193	LEU	N-CA-C	-6.38	104.40	111.36
3	D	1088	THR	N-CA-C	-6.38	103.84	111.69
1	A	6	LEU	N-CA-C	-6.38	105.36	113.01
2	C	346	VAL	N-CA-C	-6.38	102.90	111.44
1	B	6	LEU	N-CA-C	-6.37	104.77	112.54
3	N	1281	VAL	N-CA-C	6.36	117.75	108.53
2	C	246	ASP	CA-C-N	6.35	126.92	120.38
2	C	246	ASP	C-N-CA	6.35	126.92	120.38
3	D	1235	GLN	N-CA-C	6.34	119.74	112.57
3	N	1026	SER	N-CA-C	-6.34	101.04	110.23
2	C	261	ILE	N-CA-C	6.33	122.51	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1246	VAL	N-CA-C	6.33	117.03	108.17
3	N	810	GLU	N-CA-C	-6.33	105.50	113.72
3	D	1120	VAL	CA-C-N	6.32	126.29	119.78
3	D	1120	VAL	C-N-CA	6.32	126.29	119.78
2	C	362	GLY	N-CA-C	6.32	118.76	111.36
1	L	115	LEU	CA-C-N	6.32	127.74	119.84
1	L	115	LEU	C-N-CA	6.32	127.74	119.84
2	M	718	GLY	CA-C-N	6.31	126.65	119.83
2	M	718	GLY	C-N-CA	6.31	126.65	119.83
2	M	726	ILE	CA-C-N	6.31	127.73	119.84
2	M	726	ILE	C-N-CA	6.31	127.73	119.84
1	A	126	ASP	N-CA-C	6.31	121.14	113.38
3	D	72	VAL	N-CA-C	6.30	118.97	109.20
4	E	57	ASP	CA-C-N	-6.29	111.98	119.84
4	E	57	ASP	C-N-CA	-6.29	111.98	119.84
5	F	413	SER	N-CA-C	-6.29	104.42	111.28
2	C	243	ARG	N-CA-C	6.28	123.69	109.81
2	C	214	TYR	N-CA-C	-6.28	105.20	112.92
3	D	210	ARG	N-CA-C	6.28	119.37	110.14
3	D	743	ASP	N-CA-C	-6.26	102.26	110.53
2	M	879	ARG	N-CA-C	-6.26	100.02	109.79
3	D	1388	ARG	N-CA-C	6.26	118.38	110.24
3	D	1043	GLY	N-CA-C	6.21	127.91	113.18
3	D	1317	ASP	N-CA-C	6.21	119.66	110.46
5	P	149	GLU	N-CA-C	-6.21	105.64	113.72
2	C	576	ALA	CA-C-N	6.19	126.13	119.76
2	C	576	ALA	C-N-CA	6.19	126.13	119.76
3	N	378	ILE	N-CA-C	6.19	122.21	109.34
3	D	753	SER	N-CA-C	-6.18	104.60	111.71
3	D	664	LYS	N-CA-C	-6.18	101.63	110.59
3	D	715	ALA	N-CA-C	6.17	119.01	109.07
2	C	761	PHE	N-CA-C	6.17	118.75	108.20
1	K	171	PHE	N-CA-C	6.16	117.86	111.03
2	M	417	GLY	N-CA-C	-6.15	105.09	115.80
3	N	462	GLN	N-CA-C	-6.14	97.72	110.80
3	D	982	PHE	N-CA-C	6.13	117.97	111.28
5	F	411	HIS	N-CA-C	-6.13	105.77	113.18
3	N	13	ALA	N-CA-C	6.13	118.77	108.23
3	N	406	ASP	N-CA-C	6.13	123.85	110.80
2	C	230	ARG	CA-C-N	6.12	127.49	119.84
2	C	230	ARG	C-N-CA	6.12	127.49	119.84
3	D	1141	GLU	N-CA-C	-6.11	104.54	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	218	LEU	N-CA-C	-6.11	104.25	111.03
2	M	214	TYR	N-CA-C	-6.11	106.43	114.31
2	M	193	LEU	N-CA-C	-6.10	105.10	112.54
2	C	58	ASP	N-CA-C	6.09	118.83	108.90
3	N	166	GLN	N-CA-C	6.08	118.66	109.23
5	F	358	LEU	N-CA-C	-6.08	105.52	113.12
3	N	440	VAL	N-CA-C	-6.06	103.32	111.44
3	N	812	ALA	N-CA-C	-6.06	103.32	112.04
5	F	272	SER	N-CA-C	-6.05	104.60	111.07
5	F	301	ALA	N-CA-C	-6.05	106.03	113.41
2	M	567	GLN	N-CA-C	6.04	119.97	112.59
5	F	281	GLU	N-CA-C	6.04	120.71	112.68
3	N	924	MET	N-CA-C	-6.04	104.26	111.69
4	E	93	TYR	CA-C-N	6.04	126.51	119.99
4	E	93	TYR	C-N-CA	6.04	126.51	119.99
2	C	547	ILE	CA-C-N	6.04	127.38	119.84
2	C	547	ILE	C-N-CA	6.04	127.38	119.84
3	N	817	GLU	N-CA-C	-6.04	106.56	114.04
3	N	1242	HIS	N-CA-C	6.03	118.69	110.55
3	D	510	GLU	N-CA-C	-6.03	104.04	111.40
2	C	1015	LEU	N-CA-C	-6.03	104.40	110.97
3	D	592	THR	N-CA-C	-6.03	102.15	110.35
1	A	158	ILE	N-CA-C	6.02	117.86	109.55
2	C	183	SER	N-CA-C	6.02	118.33	109.24
3	D	1190	SER	CA-C-N	6.01	125.69	119.56
3	D	1190	SER	C-N-CA	6.01	125.69	119.56
3	D	954	ALA	N-CA-C	-6.00	99.36	108.67
3	N	28	LYS	CA-C-N	6.00	127.34	119.84
3	N	28	LYS	C-N-CA	6.00	127.34	119.84
3	N	142	LEU	N-CA-C	6.00	118.81	109.52
2	M	58	ASP	N-CA-C	5.99	118.16	107.80
2	M	1118	LYS	N-CA-C	5.98	119.39	109.46
5	F	156	VAL	N-CA-C	5.98	116.10	110.30
4	O	57	ASP	N-CA-C	5.98	123.02	109.81
5	P	407	LYS	N-CA-C	-5.98	105.95	113.18
5	P	414	ARG	N-CA-C	-5.97	106.04	113.38
3	N	1247	ALA	N-CA-C	-5.97	104.18	112.30
2	M	1037	VAL	N-CA-C	-5.97	104.81	110.42
3	N	1055	VAL	N-CA-C	5.97	114.53	107.73
5	F	226	LYS	N-CA-C	5.96	120.72	113.38
3	N	208	PRO	N-CA-C	5.96	124.75	112.47
2	C	311	PHE	N-CA-C	-5.96	105.27	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	P	121	GLY	N-CA-C	-5.96	107.86	115.42
3	D	448	GLU	N-CA-C	5.94	123.45	110.80
3	D	1252	ILE	N-CA-C	5.93	115.79	107.37
2	M	213	ALA	N-CA-C	-5.92	106.10	113.38
3	D	1297	GLU	N-CA-C	-5.92	106.11	113.15
5	F	282	LEU	N-CA-C	5.92	117.42	110.97
3	N	719	VAL	N-CA-C	-5.92	99.83	108.11
3	D	1384	PRO	N-CA-C	5.91	119.92	110.40
2	M	185	LYS	N-CA-C	5.91	119.09	107.98
2	C	34	VAL	CA-C-N	5.91	126.46	120.38
2	C	34	VAL	C-N-CA	5.91	126.46	120.38
4	O	93	TYR	CA-C-N	5.91	127.22	119.84
4	O	93	TYR	C-N-CA	5.91	127.22	119.84
3	N	1126	ASP	N-CA-C	5.89	123.34	110.80
3	N	114	THR	N-CA-C	-5.89	104.85	112.68
3	N	404	GLU	N-CA-C	5.88	117.85	107.61
3	N	22	SER	N-CA-C	5.88	119.67	110.32
3	N	435	VAL	N-CA-C	5.88	116.08	107.37
3	N	209	ARG	N-CA-C	5.87	123.31	110.80
2	M	608	GLY	N-CA-C	-5.87	99.28	113.18
3	D	404	GLU	N-CA-C	5.86	118.07	108.52
2	C	365	ASP	N-CA-C	5.85	120.42	113.28
3	D	1102	THR	N-CA-C	5.84	120.94	113.18
2	M	985	GLY	CA-C-N	5.83	127.13	119.84
2	M	985	GLY	C-N-CA	5.83	127.13	119.84
3	N	215	TYR	N-CA-C	5.83	119.00	108.69
2	M	353	ARG	N-CA-C	-5.82	105.67	112.89
2	M	997	LEU	N-CA-C	5.82	118.72	109.24
2	C	564	MET	N-CA-C	-5.81	103.93	111.02
3	D	695	ILE	N-CA-C	5.81	116.28	110.23
3	N	448	GLU	N-CA-C	5.81	118.19	108.02
5	F	369	LEU	N-CA-C	-5.80	105.30	112.90
2	M	261	ILE	N-CA-C	5.80	121.41	109.34
2	C	1110	ASP	N-CA-C	5.80	117.74	108.41
5	F	356	LYS	N-CA-C	-5.79	104.40	112.45
2	M	697	ARG	N-CA-C	-5.79	100.27	109.59
1	A	120	VAL	N-CA-C	5.79	116.21	108.11
2	M	414	GLY	CA-C-N	5.78	127.06	119.84
2	M	414	GLY	C-N-CA	5.78	127.06	119.84
3	N	820	GLU	N-CA-C	-5.77	104.91	111.14
2	C	848	VAL	N-CA-C	5.77	116.25	108.17
5	P	285	GLU	CA-C-N	5.77	127.05	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	P	285	GLU	C-N-CA	5.77	127.05	119.84
2	M	359	MET	N-CA-C	-5.76	105.75	112.89
3	N	1260	ILE	N-CA-C	-5.75	105.24	110.82
2	M	434	HIS	N-CA-C	-5.75	105.38	113.20
2	M	443	THR	N-CA-C	5.74	122.48	109.81
2	M	321	GLU	N-CA-C	5.73	118.21	109.62
3	N	515	GLU	N-CA-C	-5.73	106.08	114.39
2	C	1058	ASP	N-CA-C	5.72	120.42	113.38
3	D	1035	ILE	N-CA-C	-5.72	104.93	110.42
3	D	1460	ILE	CB-CA-C	-5.71	106.85	111.71
3	N	1191	PRO	N-CA-C	-5.71	106.24	114.18
5	P	366	ALA	N-CA-C	-5.71	104.26	111.11
3	D	1498	ALA	N-CA-C	-5.70	106.31	113.20
3	D	1442	ASN	N-CA-C	-5.69	104.21	113.19
1	K	146	ARG	N-CA-C	-5.68	100.44	109.59
3	N	1340	GLY	CA-C-N	5.68	126.94	119.84
3	N	1340	GLY	C-N-CA	5.68	126.94	119.84
3	N	388	HIS	N-CA-C	5.67	117.37	109.31
4	E	82	GLU	N-CA-C	5.67	122.87	110.80
5	F	194	LEU	N-CA-C	-5.66	105.20	111.71
3	N	489	ARG	N-CA-C	-5.66	106.37	113.28
2	M	810	ASP	CA-C-N	5.66	126.91	119.84
2	M	810	ASP	C-N-CA	5.66	126.91	119.84
3	N	839	LEU	N-CA-C	5.65	117.25	111.14
1	L	8	ALA	CA-C-N	5.65	126.91	119.84
1	L	8	ALA	C-N-CA	5.65	126.91	119.84
2	C	610	ARG	N-CA-C	5.64	118.66	109.06
4	E	47	LYS	N-CA-C	5.64	116.98	108.46
5	P	257	THR	N-CA-C	-5.64	106.53	113.41
3	D	736	PHE	N-CA-C	-5.63	101.32	109.59
2	M	181	VAL	N-CA-C	5.62	116.80	108.65
2	C	430	VAL	N-CA-C	-5.61	101.48	108.89
3	D	509	PRO	N-CA-C	5.61	124.02	112.47
4	E	57	ASP	N-CA-C	5.61	122.20	109.81
1	A	18	ARG	N-CA-C	-5.60	106.49	113.15
3	D	1305	LEU	CA-C-N	5.60	125.53	119.76
3	D	1305	LEU	C-N-CA	5.60	125.53	119.76
5	F	319	THR	CA-C-N	5.60	126.84	119.84
5	F	319	THR	C-N-CA	5.60	126.84	119.84
1	L	199	ILE	N-CA-C	5.60	116.01	108.17
3	N	1059	SER	N-CA-C	5.60	119.03	110.36
3	D	1170	ASP	N-CA-C	-5.59	105.95	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1295	GLU	N-CA-C	5.59	118.20	108.76
3	N	671	LYS	N-CA-C	-5.59	104.57	111.33
3	N	908	LYS	N-CA-C	-5.58	105.27	111.36
3	N	211	VAL	N-CA-C	5.58	116.78	108.46
3	N	1311	LEU	N-CA-C	5.58	117.99	109.95
3	D	776	GLU	CA-C-N	5.58	125.48	119.85
3	D	776	GLU	C-N-CA	5.58	125.48	119.85
5	P	394	ARG	N-CA-C	5.57	118.89	111.75
3	N	610	LYS	N-CA-C	5.57	118.07	111.33
3	D	686	GLU	N-CA-C	-5.57	107.03	113.88
2	M	514	VAL	N-CA-C	5.56	117.64	109.63
2	C	178	PRO	N-CA-C	5.56	123.92	112.47
2	C	991	GLN	N-CA-C	5.55	117.75	109.25
1	B	199	ILE	N-CA-C	5.55	115.87	108.11
2	C	359	MET	N-CA-C	-5.55	106.49	113.20
3	N	1043	GLY	N-CA-C	5.54	126.31	113.18
2	M	284	ARG	N-CA-C	5.54	116.67	108.86
2	C	343	GLN	N-CA-C	-5.54	106.48	113.18
3	D	798	GLU	N-CA-C	5.53	116.66	108.86
2	M	103	LYS	N-CA-C	-5.53	106.85	113.21
3	N	852	ALA	N-CA-C	-5.53	104.94	110.97
2	C	393	GLN	N-CA-C	5.53	116.66	108.86
1	L	135	GLY	N-CA-C	-5.53	106.57	115.08
2	M	858	MET	CA-C-N	5.53	126.75	119.84
2	M	858	MET	C-N-CA	5.53	126.75	119.84
2	C	172	ILE	N-CA-C	5.52	117.85	109.12
4	E	3	GLU	CA-C-N	5.50	126.72	119.84
4	E	3	GLU	C-N-CA	5.50	126.72	119.84
3	N	1395	LEU	N-CA-C	5.50	117.71	111.11
2	M	768	THR	CA-C-N	5.49	126.71	119.84
2	M	768	THR	C-N-CA	5.49	126.71	119.84
3	D	1171	VAL	N-CA-C	-5.48	106.35	111.45
2	C	455	LEU	N-CA-C	5.47	117.59	110.53
3	D	924	MET	N-CA-C	-5.47	105.72	112.72
2	M	572	ILE	N-CA-C	-5.47	106.36	111.45
2	C	508	ILE	N-CA-C	-5.47	101.89	110.09
3	D	1383	ASP	CA-C-N	5.46	126.83	120.98
3	D	1383	ASP	C-N-CA	5.46	126.83	120.98
3	N	841	TYR	N-CA-C	5.46	117.91	107.75
3	D	752	SER	N-CA-C	5.46	118.27	110.24
2	M	919	ALA	N-CA-C	-5.45	104.19	112.04
2	C	978	ARG	N-CA-C	-5.44	106.81	113.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	372	ASP	N-CA-C	5.44	112.91	108.07
2	C	1044	GLY	N-CA-C	-5.44	107.08	115.73
3	D	378	ILE	N-CA-C	5.43	120.63	109.34
3	D	1026	SER	N-CA-C	-5.43	103.22	110.55
3	D	227	LEU	N-CA-C	5.42	117.05	111.03
3	D	408	GLU	N-CA-C	-5.42	101.98	110.17
3	N	1289	LYS	N-CA-C	5.42	117.22	109.14
2	C	263	ASP	N-CA-C	5.41	121.76	109.81
3	D	1281	VAL	N-CA-C	5.41	115.49	108.35
2	M	727	PRO	N-CA-C	5.41	123.61	112.47
1	A	74	ASP	N-CA-C	-5.40	101.47	110.17
1	B	148	VAL	N-CA-C	5.40	116.22	106.61
3	N	380	GLU	N-CA-C	-5.40	101.65	108.45
3	N	1240	THR	N-CA-C	5.40	122.30	110.80
5	F	296	GLY	CA-C-N	5.39	126.58	119.84
5	F	296	GLY	C-N-CA	5.39	126.58	119.84
3	D	948	THR	N-CA-C	5.39	115.51	108.07
1	K	225	PHE	N-CA-C	-5.39	106.48	112.57
3	N	1120	VAL	CA-C-N	5.38	125.38	120.21
3	N	1120	VAL	C-N-CA	5.38	125.38	120.21
1	B	83	LYS	N-CA-C	-5.38	106.79	113.19
4	E	50	THR	N-CA-C	-5.37	105.83	112.38
2	M	315	ALA	N-CA-C	5.37	117.25	108.55
3	N	641	GLN	N-CA-C	5.37	118.03	110.14
1	A	80	LEU	N-CA-C	-5.34	106.61	113.23
5	F	270	LYS	N-CA-C	-5.34	104.50	111.02
1	K	159	LYS	N-CA-C	5.34	116.90	107.61
1	B	155	LYS	N-CA-C	5.33	117.84	111.71
2	C	514	VAL	N-CA-C	5.33	115.88	108.84
2	M	949	LYS	N-CA-C	-5.33	106.03	112.54
3	D	1127	GLU	N-CA-C	-5.33	99.45	110.80
3	N	956	ILE	CA-C-N	5.33	125.32	119.89
3	N	956	ILE	C-N-CA	5.33	125.32	119.89
3	D	528	VAL	CB-CA-C	-5.32	103.93	111.38
2	M	731	GLU	N-CA-C	-5.31	107.45	114.04
3	N	1205	TYR	N-CA-C	-5.31	104.39	111.24
2	C	759	THR	N-CA-C	5.30	116.68	107.93
3	D	1389	LEU	N-CA-C	5.30	122.10	110.80
3	N	1064	GLY	N-CA-C	5.30	125.75	113.18
1	L	80	LEU	N-CA-C	-5.30	106.07	112.54
2	C	483	VAL	N-CA-C	5.29	116.10	108.48
1	K	174	VAL	N-CA-C	-5.29	104.23	110.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	P	370	LYS	N-CA-C	-5.29	105.93	112.38
2	C	86	LYS	N-CA-C	-5.28	101.81	109.31
2	M	953	VAL	N-CA-C	5.28	115.88	108.17
2	C	762	LYS	N-CA-C	5.28	122.05	110.80
3	N	35	ARG	N-CA-C	-5.28	105.22	110.97
5	P	398	ARG	N-CA-C	-5.28	106.68	113.01
2	C	473	ARG	N-CA-C	5.27	118.70	110.32
2	M	938	LYS	N-CA-C	-5.27	104.46	112.04
5	F	232	ARG	N-CA-C	5.26	122.00	110.80
2	M	536	PRO	N-CA-C	-5.26	105.91	113.75
2	C	158	TYR	N-CA-C	5.26	118.29	110.14
2	M	209	ARG	N-CA-C	5.25	116.69	111.07
3	N	1287	GLU	N-CA-C	5.25	121.98	110.80
2	C	645	VAL	N-CA-C	5.25	116.85	108.87
2	M	864	GLY	N-CA-C	5.25	119.23	112.83
3	D	968	ASP	N-CA-C	-5.24	105.25	111.69
3	D	734	GLU	N-CA-C	-5.24	105.48	111.14
3	N	778	LEU	N-CA-C	-5.23	106.96	113.55
5	P	221	ILE	N-CA-C	-5.23	105.40	110.42
2	C	367	LEU	N-CA-C	5.23	121.94	110.80
2	M	564	MET	N-CA-C	-5.23	105.02	111.40
5	P	227	PHE	N-CA-C	5.22	117.60	110.24
2	C	1102	LEU	N-CA-C	5.21	116.20	108.86
3	D	247	GLU	N-CA-C	5.21	121.31	109.81
2	C	663	ASN	N-CA-C	-5.20	106.98	113.38
2	M	28	ARG	N-CA-C	-5.20	105.04	111.33
3	D	1106	VAL	N-CA-C	5.20	116.14	108.45
3	N	1090	ASP	N-CA-C	-5.20	105.30	110.97
1	A	52	ALA	N-CA-C	5.19	116.97	109.07
2	C	690	ILE	N-CA-C	5.19	117.09	108.99
1	L	169	ALA	N-CA-C	5.19	117.64	107.57
2	M	1094	ALA	N-CA-C	-5.19	105.62	111.28
3	D	1064	GLY	N-CA-C	5.18	125.46	113.18
3	D	891	GLU	N-CA-C	5.18	118.70	112.38
1	B	169	ALA	N-CA-C	5.18	117.74	110.23
3	N	618	LEU	N-CA-C	-5.18	104.72	112.54
3	N	1110	ALA	N-CA-C	-5.17	96.89	107.70
2	C	169	GLY	CA-C-N	5.17	126.31	119.84
2	C	169	GLY	C-N-CA	5.17	126.31	119.84
5	F	394	ARG	N-CA-C	5.17	116.60	110.97
2	M	230	ARG	CA-C-N	5.17	126.30	119.84
2	M	230	ARG	C-N-CA	5.17	126.30	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	437	VAL	N-CA-C	5.17	115.71	108.17
2	M	494	TYR	N-CA-C	5.17	116.14	108.86
5	P	267	THR	N-CA-C	-5.17	105.34	110.97
2	M	847	GLY	N-CA-C	5.16	120.89	110.97
5	P	321	ILE	N-CA-C	5.16	115.40	108.17
5	P	209	PHE	N-CA-C	-5.16	105.34	111.69
2	M	761	PHE	N-CA-C	5.16	117.77	110.50
3	N	377	VAL	N-CA-C	-5.15	100.78	108.46
2	M	52	PHE	N-CA-C	5.15	121.19	109.81
2	M	18	LEU	N-CA-C	5.15	117.30	111.02
2	C	766	GLU	N-CA-C	5.14	116.56	108.23
5	F	187	LEU	N-CA-C	-5.13	108.04	114.56
3	N	955	VAL	N-CA-C	5.13	120.02	109.34
3	D	9	ARG	N-CA-C	5.13	116.73	108.32
3	N	976	GLN	N-CA-C	-5.13	106.85	113.01
3	D	398	ALA	N-CA-C	5.13	117.28	107.75
1	K	48	ILE	N-CA-C	5.12	119.94	108.88
1	L	68	ILE	CA-C-N	5.12	125.03	119.76
1	L	68	ILE	C-N-CA	5.12	125.03	119.76
5	F	376	ILE	N-CA-C	5.12	119.98	109.34
3	D	515	GLU	N-CA-C	-5.11	105.94	113.61
3	D	1474	ALA	CB-CA-C	-5.11	109.71	117.07
4	E	93	TYR	N-CA-C	5.11	117.68	109.15
2	M	124	ASP	N-CA-C	5.10	116.65	111.14
2	C	85	GLU	N-CA-C	-5.10	105.64	111.14
4	O	57	ASP	CA-C-N	-5.10	113.47	119.84
4	O	57	ASP	C-N-CA	-5.10	113.47	119.84
1	A	77	GLU	N-CA-C	-5.09	106.91	113.23
2	C	323	ASP	N-CA-C	5.09	116.68	108.34
2	M	666	LEU	N-CA-C	-5.08	103.77	110.43
1	A	48	ILE	CA-C-N	5.08	125.23	119.90
1	A	48	ILE	C-N-CA	5.08	125.23	119.90
2	C	301	GLU	N-CA-C	-5.08	107.37	113.21
2	M	441	VAL	N-CA-C	5.08	118.50	113.53
3	N	809	PRO	N-CA-C	5.08	119.45	111.38
3	D	1266	ARG	N-CA-C	5.07	116.78	109.07
2	M	796	GLU	N-CA-C	5.07	116.55	108.79
2	C	643	VAL	N-CA-C	5.07	115.53	108.84
2	M	141	HIS	N-CA-C	5.06	115.21	108.38
4	O	3	GLU	CA-C-N	5.06	126.16	119.84
4	O	3	GLU	C-N-CA	5.06	126.16	119.84
2	C	494	TYR	N-CA-C	5.06	117.10	109.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	P	192	LEU	N-CA-C	-5.05	107.14	113.15
3	D	1499	ARG	N-CA-C	-5.05	107.66	113.88
2	M	178	PRO	N-CA-C	5.05	122.87	112.47
1	A	95	GLN	N-CA-C	-5.04	105.78	112.34
2	C	876	VAL	N-CA-C	5.04	119.77	108.88
2	M	194	VAL	N-CA-C	-5.04	105.79	110.53
3	N	954	ALA	N-CA-C	-5.04	103.68	110.68
3	D	970	LYS	N-CA-C	-5.03	106.24	112.38
4	O	51	LEU	N-CA-C	-5.03	100.09	110.80
3	D	406	ASP	N-CA-C	5.02	121.50	110.80
2	C	953	VAL	N-CA-C	5.02	115.88	108.45
3	D	524	LEU	N-CA-C	-5.01	106.33	112.90
2	C	75	GLU	CA-C-N	5.01	125.54	120.38
2	C	75	GLU	C-N-CA	5.01	125.54	120.38
1	A	181	VAL	CB-CA-C	-5.01	106.97	112.68
3	D	1247	ALA	N-CA-C	-5.01	103.72	110.68
1	A	140	MET	N-CA-C	5.00	116.29	109.18
2	M	657	ASP	N-CA-C	5.00	117.14	110.53
4	O	93	TYR	N-CA-C	5.00	118.25	108.85

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	C	258	TYR	Sidechain
3	D	132	TYR	Sidechain
3	N	625	TYR	Sidechain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	290	0
1	B	1806	0	1861	221	0
1	K	1806	0	1861	240	0
1	L	1806	0	1861	214	0
2	C	8829	0	8933	1214	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	M	8829	0	8933	1239	0
3	D	10975	0	11213	1742	0
3	N	10975	0	11212	1709	0
4	E	769	0	775	109	0
4	O	769	0	775	97	0
5	F	2793	0	2873	341	0
5	P	2793	0	2873	384	0
6	D	43	0	44	10	0
6	M	43	0	44	9	0
7	D	2	0	0	0	0
7	N	2	0	0	0	0
8	D	1	0	0	0	0
8	N	1	0	0	0	0
All	All	54048	0	55119	7278	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 67.

All (7278) 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)
2:C:673:LEU:HD23	2:C:867:VAL:HA	1.22	1.20
3:D:141:ILE:H	3:D:141:ILE:HD12	1.11	1.16
3:N:172:PRO:HB3	3:N:178:LEU:HD22	1.22	1.16
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.29	1.15
3:D:1304:LYS:H	3:D:1304:LYS:HD3	1.03	1.15
5:P:120:THR:HG22	5:P:122:LEU:HD13	1.24	1.14
3:D:1062:ARG:HH11	3:D:1062:ARG:HG3	1.12	1.14
3:N:44:LEU:HB3	3:N:525:ARG:NH2	1.63	1.13
3:D:205:TYR:HB3	3:D:393:ILE:HD13	1.31	1.11
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.17	1.11
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.27	1.11
5:F:161:GLN:HA	5:F:164:LYS:HE2	1.28	1.11
2:C:460:ARG:HD3	2:C:485:TYR:HE2	1.14	1.11
2:C:1016:ILE:HD13	2:C:1016:ILE:H	1.09	1.11
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.08	1.11
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.27	1.11
3:D:1223:ILE:H	3:D:1223:ILE:HD12	1.07	1.10
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.32	1.10
3:D:186:VAL:HG13	3:D:187:LYS:H	1.17	1.09
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	1.16	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.31	1.09
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.07	1.09
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.03	1.09
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.16	1.08
3:D:1277:ILE:HG22	3:D:1278:ASP:H	1.19	1.08
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.30	1.08
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.28	1.08
1:A:197:LEU:HD23	1:A:197:LEU:H	1.12	1.07
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.31	1.07
2:C:537:LYS:HA	2:C:545:ASN:HD21	1.16	1.07
3:D:95:LEU:HD11	3:D:517:VAL:HG23	1.35	1.07
3:D:493:ARG:HH21	3:D:1389:LEU:HD21	1.18	1.07
2:M:139:GLN:HE22	2:M:415:PRO:HD3	1.17	1.07
3:N:785:ILE:H	3:N:785:ILE:HD12	1.19	1.07
2:M:183:SER:HB2	2:M:190:LYS:HG2	1.32	1.07
3:N:692:GLU:HG2	3:N:720:LEU:HD12	1.32	1.07
3:D:907:GLU:HG2	3:D:908:LYS:H	1.00	1.06
3:D:1433:SER:HB2	3:D:1457:ASP:OD2	1.54	1.06
2:M:1016:ILE:H	2:M:1016:ILE:HD13	1.19	1.06
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.37	1.06
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.29	1.06
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.32	1.06
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.15	1.06
3:D:584:ASN:ND2	3:D:590:PRO:HD2	1.70	1.06
2:M:691:SER:HB2	2:M:858:MET:SD	1.94	1.06
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.33	1.05
5:P:361:LEU:HD21	5:P:408:LEU:HB2	1.38	1.04
2:C:602:GLU:HG2	2:C:603:VAL:H	1.20	1.04
2:C:906:PHE:CD1	3:D:1067:VAL:HG22	1.92	1.04
3:D:387:LEU:HD13	5:F:97:GLU:HB2	1.37	1.04
3:D:425:GLY:O	3:D:427:VAL:HG23	1.58	1.03
5:F:392:VAL:HG11	5:F:396:ARG:HD3	1.38	1.03
2:M:650:ARG:HD3	2:M:650:ARG:H	1.14	1.03
2:M:325:ILE:H	2:M:325:ILE:HD12	1.18	1.03
3:N:119:SER:H	3:N:123:LEU:HD12	1.24	1.02
1:A:43:ILE:HD11	1:B:35:THR:HG21	1.40	1.02
2:C:889:HIS:HE1	3:D:951:ILE:H	1.06	1.02
3:D:116:LEU:HB3	3:D:118:LEU:HD13	1.40	1.02
3:D:543:LEU:HD22	3:D:580:ALA:HB1	1.41	1.02
3:N:1372:VAL:HA	3:N:1375:MET:HE2	1.42	1.02
3:D:119:SER:HB2	3:D:123:LEU:N	1.73	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:86:LYS:HG3	2:M:813:VAL:HG12	1.37	1.02
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.40	1.02
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.41	1.02
2:C:902:ILE:HG22	2:C:904:PRO:HD3	1.38	1.02
3:D:1201:CYS:SG	3:D:1204:CYS:HB2	2.01	1.01
3:N:984:THR:HG22	3:N:987:GLU:HB2	1.41	1.01
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	1.89	1.01
2:C:265:ARG:HG3	2:C:288:ARG:HG3	1.43	1.00
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.43	1.00
3:D:131:LYS:HG3	3:D:568:ARG:HG2	1.43	1.00
3:N:657:LEU:HG	3:N:661:MET:HE2	1.38	1.00
2:C:64:LEU:HD22	2:C:359:MET:HE3	1.44	1.00
4:E:23:VAL:HG21	4:E:65:MET:HG2	1.42	1.00
1:B:86:VAL:N	1:B:124:ASN:HD22	1.60	1.00
2:C:966:LEU:HD21	2:C:986:PRO:HG2	1.43	1.00
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.44	0.99
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.43	0.99
3:N:368:VAL:HG22	3:N:369:ALA:H	1.26	0.99
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.25	0.99
1:K:86:VAL:HG12	1:K:124:ASN:ND2	1.78	0.99
2:M:512:ARG:HG2	2:M:523:ILE:HD11	1.41	0.99
2:M:172:ILE:H	2:M:172:ILE:HD12	1.27	0.99
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.44	0.99
3:N:1213:ARG:HB2	3:N:1214:PRO:HD2	1.43	0.99
3:D:969:ARG:HB3	3:D:969:ARG:HH11	1.22	0.99
1:A:206:THR:HB	1:A:209:GLU:HG3	1.43	0.99
3:N:423:ASP:HB2	5:P:178:ARG:HB2	1.44	0.99
1:B:206:THR:HB	1:B:209:GLU:HG3	1.43	0.99
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.41	0.99
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.62	0.99
2:M:693:GLU:HA	2:M:696:LYS:HD2	1.44	0.98
2:C:413:LEU:H	2:C:413:LEU:HD12	1.25	0.98
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.41	0.98
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.26	0.98
3:N:781:PRO:HB2	3:N:911:LEU:HD23	1.46	0.98
3:N:1065:LEU:HD23	3:N:1070:TYR:HD2	1.29	0.98
5:P:129:GLU:HB3	5:P:142:ARG:HH22	1.29	0.98
3:N:621:LYS:O	3:N:622:ARG:HG3	1.62	0.98
3:N:1277:ILE:HG22	3:N:1278:ASP:H	1.24	0.98
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.44	0.97
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:44:ILE:HD11	2:M:340:MET:HE1	1.46	0.97
2:C:480:THR:HG22	2:C:482:GLU:H	1.27	0.97
2:C:658:GLY:H	2:C:661:SER:HB2	1.27	0.97
2:M:1097:LEU:HD23	3:N:10:ILE:HD13	1.46	0.97
2:C:368:THR:HB	2:C:369:PRO:HD3	1.47	0.97
2:M:1031:ARG:HH11	3:N:619:LEU:HD22	1.29	0.97
2:C:474:VAL:HG11	2:C:529:VAL:HG12	1.44	0.97
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.30	0.97
2:C:183:SER:HB3	2:C:190:LYS:HD3	1.47	0.97
3:D:162:ARG:HG3	3:D:163:TYR:H	1.30	0.97
5:F:386:VAL:HG13	5:F:387:GLY:H	1.27	0.97
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.44	0.97
3:D:907:GLU:HG2	3:D:908:LYS:N	1.79	0.96
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.46	0.96
3:N:387:LEU:HD12	5:P:96:LEU:HB2	1.45	0.96
3:N:1189:ARG:HH21	3:N:1203:LYS:HB2	1.30	0.96
2:C:627:ARG:HG3	2:C:628:PHE:H	1.31	0.96
1:B:5:LYS:HA	1:B:5:LYS:HE3	1.44	0.96
3:D:378:ILE:H	3:D:378:ILE:HD13	1.28	0.96
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.45	0.96
2:M:629:TYR:HB2	2:M:637:LEU:HD11	1.44	0.95
1:A:62:LEU:HD12	1:A:62:LEU:H	1.31	0.95
3:N:736:PHE:HD1	3:N:736:PHE:H	1.11	0.95
2:C:443:THR:HG21	2:C:450:GLY:H	1.30	0.95
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.47	0.95
3:D:136:ASP:HB3	3:D:137:PRO:CD	1.96	0.95
2:C:460:ARG:HD3	2:C:485:TYR:CE2	2.01	0.95
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.44	0.95
3:D:477:LEU:HA	3:D:480:GLU:HB3	1.45	0.95
2:M:129:ILE:HG22	2:M:130:ASN:N	1.81	0.95
3:D:141:ILE:HD11	3:D:450:TYR:H	1.30	0.95
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.45	0.95
5:F:77:THR:O	5:F:81:VAL:HG23	1.66	0.95
5:F:350:LEU:HD12	5:F:422:LEU:HD12	1.47	0.95
2:M:265:ARG:HG3	2:M:288:ARG:HG3	1.49	0.94
5:P:274:THR:HG21	5:P:295:MET:HE3	1.46	0.94
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.47	0.94
3:D:528:VAL:HG23	3:D:536:ALA:HB3	1.48	0.94
3:D:908:LYS:HB2	3:D:1027:GLY:HA3	1.49	0.94
5:F:393:THR:HG22	5:F:394:ARG:H	1.31	0.94
2:M:18:LEU:HA	2:M:408:ARG:NH2	1.82	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.48	0.93
3:D:676:MET:HE1	3:D:684:LYS:H	1.34	0.93
2:C:22:GLN:HE22	2:C:336:VAL:HG21	1.30	0.93
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.51	0.93
1:A:124:ASN:OD1	1:A:127:LEU:HB3	1.67	0.93
2:M:250:ARG:HB3	2:M:253:ALA:HB2	1.51	0.93
2:M:1060:ILE:HG13	2:M:1083:GLU:HG3	1.51	0.93
2:C:115:LEU:HD23	2:C:115:LEU:H	1.34	0.93
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.47	0.93
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.31	0.93
2:C:537:LYS:HA	2:C:545:ASN:ND2	1.84	0.93
3:N:441:ARG:HB3	3:N:443:VAL:HG23	1.51	0.93
3:D:1152:GLU:H	3:D:1162:GLU:HB2	1.30	0.92
2:C:395:LYS:HE3	2:C:407:LYS:HZ2	1.33	0.92
3:D:400:VAL:HA	3:D:442:ASN:O	1.70	0.92
1:A:90:LEU:HD12	1:A:119:ASP:HA	1.51	0.92
3:N:1109:GLU:HG2	3:N:1202:GLN:N	1.84	0.92
1:A:91:ASN:OD1	1:A:92:PRO:HD2	1.69	0.92
2:M:415:PRO:HB2	2:M:418:LEU:HD23	1.50	0.92
3:N:141:ILE:HG22	3:N:142:LEU:H	1.34	0.92
3:D:234:GLU:HB3	3:D:240:GLU:HB2	1.52	0.92
2:M:30:LEU:O	2:M:30:LEU:HD12	1.69	0.92
2:M:1111:ILE:HG13	2:M:1112:PHE:HD1	1.35	0.92
3:N:385:VAL:HG22	5:P:232:ARG:HH12	1.35	0.92
3:N:701:LEU:HD21	3:N:763:MET:HE3	1.51	0.92
5:F:136:LEU:HD12	5:F:137:GLY:H	1.34	0.92
2:M:889:HIS:HE1	3:N:951:ILE:H	1.18	0.92
1:A:18:ARG:HH12	1:A:88:ARG:NE	1.67	0.92
3:D:1264:GLU:HG2	3:D:1266:ARG:CZ	1.98	0.92
1:K:206:THR:HG22	1:K:209:GLU:H	1.32	0.92
3:N:668:PRO:HD2	3:N:672:ALA:HB1	1.51	0.92
3:N:1018:ASN:O	3:N:1022:VAL:HG23	1.68	0.92
3:D:565:ILE:H	3:D:565:ILE:HD12	1.35	0.92
2:C:575:GLN:H	2:C:667:ALA:HB1	1.33	0.92
2:C:689:VAL:HG12	2:C:851:LYS:HB3	1.52	0.92
3:D:218:LYS:HZ3	3:D:370:ALA:HA	1.33	0.92
5:P:386:VAL:HG22	5:P:394:ARG:HG2	1.51	0.92
1:B:152:PRO:HD2	1:B:155:LYS:HD2	1.51	0.91
2:C:21:ILE:H	2:C:21:ILE:HD12	1.33	0.91
2:M:64:LEU:HB2	2:M:359:MET:HE3	1.53	0.91
2:M:129:ILE:HG22	2:M:130:ASN:H	1.33	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:119:SER:HB2	3:D:123:LEU:H	1.30	0.91
3:D:902:LEU:HD23	3:D:902:LEU:H	1.35	0.91
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.48	0.91
5:P:295:MET:HE2	5:P:295:MET:HA	1.49	0.91
3:D:877:PRO:O	3:D:880:ILE:HG22	1.71	0.91
3:D:1389:LEU:HD23	3:D:1389:LEU:H	1.36	0.91
1:K:86:VAL:H	1:K:124:ASN:HD22	1.16	0.91
3:D:570:GLU:HB2	5:F:214:GLN:NE2	1.84	0.91
3:N:809:PRO:HB2	3:N:812:ALA:CB	2.01	0.91
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.02	0.90
2:C:889:HIS:CE1	3:D:951:ILE:H	1.88	0.90
2:M:77:PRO:HD3	2:M:93:PRO:HD3	1.53	0.90
2:M:737:LEU:HD22	2:M:741:GLY:O	1.69	0.90
2:C:524:VAL:HG22	2:C:525:SER:H	1.36	0.90
3:D:907:GLU:CG	3:D:908:LYS:H	1.85	0.90
5:F:271:LEU:HD22	5:F:291:ILE:HD11	1.54	0.90
5:F:361:LEU:HD11	5:F:408:LEU:HD12	1.50	0.90
3:N:1084:THR:HG22	3:N:1087:ARG:NH2	1.86	0.90
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.71	0.90
1:A:201:THR:HG22	1:A:203:GLY:H	1.35	0.90
2:C:289:THR:HG22	2:C:290:LEU:HD23	1.51	0.90
3:D:1280:VAL:HG12	3:D:1281:VAL:H	1.34	0.90
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.51	0.90
3:N:792:ILE:HD11	3:N:881:LEU:HD23	1.53	0.90
3:D:175:VAL:HG13	3:D:217:LYS:HG2	1.51	0.90
3:N:179:VAL:HG11	3:N:217:LYS:HZ1	1.37	0.90
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.54	0.90
2:C:110:GLU:HG2	2:C:369:PRO:HG3	1.54	0.90
2:M:838:LYS:HD3	2:M:846:LYS:HZ3	1.37	0.90
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.53	0.90
2:M:157:ARG:HD2	2:M:314:THR:HG22	1.52	0.90
3:N:139:GLY:O	3:N:147:VAL:HG22	1.71	0.90
1:B:151:VAL:H	1:B:169:ALA:HB3	1.34	0.89
1:A:123:MET:C	1:A:125:PRO:HD3	1.96	0.89
1:A:133:GLU:OE2	2:C:605:LYS:HE2	1.72	0.89
1:B:86:VAL:H	1:B:124:ASN:ND2	1.70	0.89
2:C:690:ILE:HB	2:C:852:ILE:HD13	1.54	0.89
3:D:62:LYS:HD2	3:D:63:TYR:CE1	2.08	0.89
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.03	0.89
4:E:54:LEU:HA	4:E:58:PRO:CG	2.03	0.89
3:N:119:SER:HB2	3:N:123:LEU:H	1.36	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1114:THR:HG22	3:N:1116:ASN:ND2	1.87	0.89
3:D:1422:MET:HE3	3:D:1426:LYS:HG2	1.53	0.89
5:F:321:ILE:HD13	5:F:322:GLY:N	1.88	0.89
2:M:516:ARG:NE	3:N:1068:LEU:HD13	1.88	0.89
1:B:86:VAL:HG12	1:B:124:ASN:ND2	1.88	0.89
1:K:175:ARG:HE	1:K:202:ASP:HA	1.38	0.89
2:M:89:THR:HA	2:M:129:ILE:O	1.73	0.89
2:M:368:THR:HB	2:M:369:PRO:HD3	1.55	0.89
3:N:675:ARG:O	3:N:678:GLU:HG2	1.73	0.88
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.54	0.88
1:B:23:PHE:HE1	1:B:208:LEU:HD22	1.37	0.88
3:D:1086:LEU:HA	6:D:1525:STD:H32	1.55	0.88
3:D:1220:ALA:HB1	3:D:1223:ILE:HD13	1.52	0.88
3:N:1389:LEU:H	3:N:1389:LEU:HD23	1.35	0.88
2:C:874:LEU:HD12	3:D:784:ASP:OD2	1.73	0.88
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.54	0.88
2:M:290:LEU:HD23	2:M:290:LEU:H	1.38	0.88
5:P:94:LEU:HD12	5:P:97:GLU:H	1.38	0.88
2:C:1071:ILE:HD11	3:D:655:PRO:HB3	1.56	0.88
3:N:1342:GLU:H	3:N:1342:GLU:CD	1.81	0.88
2:C:516:ARG:NH2	3:D:1068:LEU:HB3	1.89	0.88
3:D:44:LEU:HB3	3:D:525:ARG:NH2	1.87	0.88
2:M:146:VAL:HG12	2:M:162:ILE:HA	1.53	0.88
2:M:279:GLU:HG3	2:M:280:LYS:HG3	1.54	0.88
2:M:926:PHE:HE2	2:M:960:GLU:HG3	1.38	0.88
3:D:1223:ILE:H	3:D:1223:ILE:CD1	1.85	0.88
2:M:15:LEU:H	2:M:15:LEU:HD12	1.36	0.88
3:N:591:VAL:HA	3:N:600:LEU:HD21	1.56	0.88
1:B:23:PHE:CE1	1:B:208:LEU:HD22	2.09	0.87
2:M:1031:ARG:NH1	3:N:619:LEU:HD22	1.89	0.87
3:N:1197:ARG:CD	3:N:1396:GLU:HB2	2.05	0.87
1:L:154:GLU:OE1	3:N:840:LYS:HG3	1.73	0.87
3:N:141:ILE:H	3:N:141:ILE:HD12	1.38	0.87
3:N:1101:VAL:HG11	3:N:1424:VAL:HG23	1.55	0.87
2:C:516:ARG:NE	3:D:1068:LEU:HD13	1.90	0.87
3:N:1078:ARG:HB3	3:N:1078:ARG:HH11	1.39	0.87
2:M:139:GLN:HE22	2:M:415:PRO:CD	1.86	0.87
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.56	0.87
5:P:129:GLU:HB3	5:P:142:ARG:NH2	1.88	0.87
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.57	0.87
3:N:187:LYS:CE	3:N:213:VAL:HG12	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:794:GLN:NE2	3:N:795:VAL:H	1.73	0.87
2:C:1096:ALA:HB2	3:D:514:LEU:HD21	1.57	0.87
2:M:775:ARG:HB3	2:M:780:GLU:HA	1.56	0.87
5:F:151:LEU:HB2	5:F:155:THR:H	1.39	0.87
2:M:1000:MET:HE3	2:M:1001:VAL:H	1.40	0.87
3:D:127:LEU:HD22	3:D:134:VAL:HG21	1.57	0.86
3:D:1342:GLU:CD	3:D:1342:GLU:H	1.83	0.86
3:N:60:CYS:SG	3:N:61:GLY:N	2.48	0.86
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.57	0.86
3:N:868:TYR:HE1	3:N:869:MET:HE2	1.39	0.86
3:D:221:ALA:HB3	3:D:367:ILE:HB	1.56	0.86
2:M:266:ARG:O	2:M:272:ALA:HB3	1.73	0.86
3:N:984:THR:CG2	3:N:987:GLU:HB2	2.04	0.86
5:P:135:ILE:HD11	5:P:178:ARG:HB3	1.57	0.86
2:C:292:ARG:HH11	2:C:299:LYS:HD3	1.40	0.86
2:M:145:GLY:HA3	2:M:276:LYS:HD2	1.56	0.86
2:C:568:ALA:HB3	2:C:668:LEU:HD22	1.58	0.86
3:D:212:ARG:HD2	3:D:445:ARG:HH22	1.38	0.86
3:D:1304:LYS:HD3	3:D:1304:LYS:N	1.86	0.86
2:M:188:LYS:HD3	2:M:189:ARG:N	1.90	0.86
2:C:1021:LEU:HD22	5:F:331:ASP:O	1.76	0.86
2:M:1009:SER:HB2	3:N:651:GLU:OE1	1.75	0.86
1:B:103:ALA:HB1	1:B:107:LYS:HD3	1.58	0.86
3:D:798:GLU:HG2	3:D:799:LYS:H	1.40	0.86
3:D:1326:THR:HG22	3:D:1327:ARG:H	1.37	0.86
1:K:91:ASN:OD1	1:K:92:PRO:HD2	1.76	0.86
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.41	0.86
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.57	0.85
3:N:799:LYS:HD2	3:N:799:LYS:O	1.74	0.85
2:M:266:ARG:H	2:M:266:ARG:HD2	1.41	0.85
2:C:1095:LEU:O	2:C:1097:LEU:N	2.08	0.85
3:D:659:LYS:HE3	3:D:663:GLU:OE1	1.77	0.85
3:D:945:SER:OG	3:D:947:ILE:HG23	1.76	0.85
2:C:516:ARG:NH1	3:D:1068:LEU:HD22	1.90	0.85
3:D:1062:ARG:HG3	3:D:1062:ARG:NH1	1.90	0.85
3:N:44:LEU:HB3	3:N:525:ARG:HH22	1.36	0.85
5:F:280:GLN:OE1	5:F:281:GLU:HB2	1.75	0.85
2:M:266:ARG:HG2	2:M:273:GLY:HA3	1.58	0.85
3:N:550:ARG:NH1	3:N:577:ALA:HB2	1.91	0.85
3:D:703:ASN:O	3:D:745:MET:HG3	1.74	0.85
4:O:54:LEU:HG	4:O:58:PRO:CG	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:42:ARG:NH1	2:C:857:ASP:HB3	1.90	0.85
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.06	0.85
5:F:154:LYS:O	5:F:158:GLU:HG3	1.76	0.85
3:N:245:LEU:HD22	3:N:246:PRO:HD2	1.58	0.85
3:N:179:VAL:HG11	3:N:217:LYS:NZ	1.91	0.85
3:N:187:LYS:HE2	3:N:213:VAL:H	1.41	0.85
3:D:1045:MET:HG3	3:D:1073:SER:HA	1.58	0.84
3:N:423:ASP:HB2	5:P:178:ARG:CB	2.07	0.84
3:N:1120:VAL:HA	3:N:1346:ARG:NH2	1.91	0.84
3:N:1271:LYS:HZ2	3:N:1273:VAL:HA	1.42	0.84
5:P:358:LEU:HD21	5:P:370:LYS:NZ	1.92	0.84
1:K:99:LEU:HB3	1:K:114:PHE:HD2	1.42	0.84
3:N:732:VAL:HB	3:N:736:PHE:HE1	1.42	0.84
2:C:1047:HIS:NE2	3:D:1471:LEU:HD21	1.92	0.84
3:D:728:LEU:HD22	3:D:745:MET:HE1	1.57	0.84
3:D:1382:THR:O	3:D:1384:PRO:HD3	1.77	0.84
3:D:1422:MET:HE2	3:D:1427:SER:HA	1.60	0.84
3:N:210:ARG:HD2	3:N:398:ALA:HB3	1.58	0.84
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.59	0.84
5:F:416:ARG:NH2	5:F:419:ARG:HD3	1.92	0.84
1:L:108:GLU:HG2	1:L:131:THR:HG22	1.56	0.84
2:M:139:GLN:NE2	2:M:414:GLY:HA3	1.92	0.84
2:M:554:ASP:OD2	2:M:556:ASN:HB2	1.76	0.84
3:N:1271:LYS:NZ	3:N:1273:VAL:HA	1.92	0.84
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	1.92	0.84
3:N:249:TYR:C	3:N:250:LEU:HD12	2.02	0.84
5:P:367:MET:HA	5:P:370:LYS:HD3	1.60	0.84
2:M:194:VAL:HA	2:M:197:LEU:HD12	1.60	0.84
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.60	0.84
2:M:288:ARG:HA	2:M:288:ARG:HE	1.42	0.84
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	1.57	0.84
3:D:455:ARG:C	3:D:456:MET:HE2	2.03	0.84
3:N:1161:GLU:OE2	3:N:1164:ARG:HD2	1.78	0.84
3:N:1440:PHE:HB3	3:N:1442:ASN:OD1	1.78	0.84
5:F:151:LEU:HD13	5:F:154:LYS:HB3	1.59	0.84
2:M:941:VAL:HA	2:M:944:LEU:HD12	1.60	0.84
3:N:550:ARG:HH12	3:N:577:ALA:HB2	1.40	0.84
5:P:94:LEU:HG	5:P:97:GLU:HB2	1.59	0.84
2:C:439:CYS:HB2	2:C:541:SER:HB3	1.61	0.83
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.42	0.83
3:D:1223:ILE:HD12	3:D:1223:ILE:N	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.60	0.83
5:F:141:VAL:O	5:F:145:PRO:HG2	1.78	0.83
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.57	0.83
4:O:54:LEU:CG	4:O:58:PRO:HG2	2.08	0.83
2:C:49:ARG:NH1	2:C:49:ARG:HB2	1.93	0.83
3:D:1130:ARG:NH2	3:D:1132:LEU:HG	1.92	0.83
3:D:1433:SER:HB2	3:D:1457:ASP:CG	2.03	0.83
2:M:516:ARG:HH11	2:M:521:PRO:HB3	1.43	0.83
2:M:886:LEU:HD12	3:N:951:ILE:HG13	1.58	0.83
3:N:908:LYS:HB3	3:N:1027:GLY:HA3	1.58	0.83
2:C:762:LYS:HA	2:C:786:LYS:HD2	1.57	0.83
3:D:609:GLY:HA2	3:D:613:ARG:HB3	1.58	0.83
3:N:1047:LYS:HD2	3:N:1051:GLU:HG3	1.58	0.83
2:C:857:ASP:HB2	2:C:978:ARG:CG	2.08	0.83
3:D:984:THR:HG22	3:D:987:GLU:CG	2.08	0.83
3:D:98:PRO:HG2	3:D:462:GLN:HE22	1.41	0.83
3:D:675:ARG:O	3:D:678:GLU:HG2	1.78	0.83
3:D:715:ALA:O	3:D:764:LEU:HD12	1.79	0.83
3:N:1283:ILE:HG22	3:N:1284:GLU:H	1.42	0.83
2:C:919:ALA:HB2	2:C:968:LEU:HD21	1.59	0.83
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.13	0.83
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.61	0.83
2:M:580:MET:HB3	2:M:584:GLU:CD	2.03	0.83
2:M:1052:MET:HE3	3:N:623:VAL:HG21	1.58	0.83
3:N:60:CYS:SG	3:N:62:LYS:N	2.51	0.83
3:N:564:GLU:HG2	3:N:565:ILE:HD12	1.60	0.83
3:N:895:VAL:HG13	3:N:921:ARG:NH1	1.93	0.83
5:F:94:LEU:CD1	5:F:96:LEU:H	1.92	0.83
3:N:704:ARG:HG3	3:N:736:PHE:HB2	1.60	0.83
3:N:948:THR:O	3:N:949:ILE:HG13	1.79	0.83
4:O:40:LEU:HD21	4:O:67:GLU:HG2	1.61	0.83
2:C:1101:THR:O	2:C:1102:LEU:HD12	1.77	0.82
3:D:1152:GLU:N	3:D:1162:GLU:HB2	1.92	0.82
3:D:1310:ARG:HG3	3:D:1327:ARG:HB3	1.58	0.82
5:F:158:GLU:HA	5:F:161:GLN:NE2	1.94	0.82
5:P:134:LYS:O	5:P:135:ILE:HG12	1.78	0.82
1:K:228:PRO:HG3	1:L:11:PHE:HE2	1.42	0.82
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	1.93	0.82
5:P:214:GLN:HA	5:P:217:ASN:HD22	1.43	0.82
1:A:50:GLY:HA3	1:A:171:PHE:O	1.79	0.82
3:D:969:ARG:HB3	3:D:969:ARG:NH1	1.95	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:44:ILE:HG23	2:M:344:PHE:HE1	1.42	0.82
2:M:497:ALA:O	2:M:532:MET:HG3	1.79	0.82
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	1.94	0.82
1:A:206:THR:HG22	1:A:209:GLU:H	1.44	0.82
2:C:1096:ALA:CB	3:D:514:LEU:HD21	2.10	0.82
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.59	0.82
5:F:416:ARG:HH22	5:F:419:ARG:HD3	1.44	0.82
2:M:1014:SER:HB3	2:M:1017:THR:O	1.78	0.82
2:C:263:ASP:HB2	2:C:264:PRO:CD	2.08	0.82
2:C:950:LEU:HB3	2:C:952:LEU:HD23	1.62	0.82
3:N:1116:ASN:H	3:N:1116:ASN:HD22	1.27	0.82
3:N:760:ARG:HD2	4:O:65:MET:HE1	1.62	0.82
5:P:399:GLN:O	5:P:403:LYS:HB2	1.79	0.82
3:D:374:GLU:HG2	3:D:386:HIS:HA	1.59	0.82
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.60	0.82
3:N:1176:LYS:O	3:N:1179:GLU:HB2	1.79	0.82
5:P:316:SER:OG	5:P:318:GLU:HG3	1.79	0.82
2:C:896:PHE:CD2	2:C:925:TYR:HB2	2.15	0.82
3:D:1476:THR:HG23	4:E:21:VAL:HG22	1.62	0.82
3:D:426:LYS:HB3	5:F:134:LYS:O	1.79	0.82
2:M:332:ARG:NH2	2:M:464:LEU:HD11	1.94	0.82
2:M:597:ALA:O	2:M:652:GLY:HA2	1.79	0.82
3:N:134:VAL:HG12	3:N:152:LEU:HB3	1.61	0.82
3:N:639:LEU:O	3:N:639:LEU:HD23	1.79	0.82
1:B:153:ALA:HB1	1:B:166:PRO:HB2	1.60	0.82
5:F:205:ARG:HD2	5:F:251:ILE:HD13	1.62	0.82
1:K:201:THR:HG22	1:K:203:GLY:H	1.44	0.82
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.15	0.82
3:N:1120:VAL:HA	3:N:1346:ARG:HH22	1.44	0.82
1:B:40:LEU:O	1:B:44:LEU:HD12	1.78	0.81
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.61	0.81
1:K:79:ILE:HD12	1:K:167:VAL:HG12	1.61	0.81
3:D:989:TYR:CZ	3:D:993:LEU:HD11	2.15	0.81
4:E:54:LEU:HG	4:E:58:PRO:CG	2.09	0.81
1:L:132:LEU:HD21	1:L:138:LEU:HB2	1.60	0.81
1:A:90:LEU:HG	1:A:119:ASP:O	1.80	0.81
2:C:129:ILE:HG22	2:C:130:ASN:ND2	1.96	0.81
2:C:607:ASP:O	2:C:609:ASN:N	2.13	0.81
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.14	0.81
2:M:428:ARG:HH21	2:M:449:ILE:HG22	1.44	0.81
2:M:950:LEU:HD12	2:M:952:LEU:CD2	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:875:THR:HG22	3:N:879:ARG:HG3	1.62	0.81
3:N:1116:ASN:ND2	3:N:1116:ASN:H	1.74	0.81
2:C:653:ASP:OD1	2:C:654:LEU:HD23	1.81	0.81
3:D:728:LEU:HD22	3:D:745:MET:CE	2.10	0.81
3:N:971:LEU:O	3:N:975:GLU:HG2	1.80	0.81
2:C:349:ALA:O	2:C:353:ARG:HG3	1.80	0.81
2:C:950:LEU:HB3	2:C:952:LEU:CD2	2.10	0.81
3:D:159:ARG:NH1	3:D:159:ARG:HB2	1.94	0.81
3:D:1137:ARG:O	3:D:1141:GLU:HG3	1.81	0.81
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	1.96	0.81
5:F:133:ALA:HA	5:F:136:LEU:HD12	1.61	0.81
3:N:74:GLU:HB3	3:N:75:ARG:HH21	1.46	0.81
3:N:1428:ALA:O	3:N:1431:THR:HG23	1.81	0.81
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.63	0.81
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.16	0.81
2:M:760:SER:O	2:M:785:VAL:HG13	1.81	0.81
3:D:642:CYS:HB3	3:D:716:PHE:HB2	1.61	0.81
5:F:207:LEU:HB2	5:F:212:LEU:HD21	1.63	0.81
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.63	0.81
2:M:1047:HIS:O	2:M:1050:GLN:HB3	1.80	0.81
3:N:486:ARG:HH21	3:N:489:ARG:NE	1.78	0.81
3:N:845:ASN:CB	3:N:848:GLU:HG3	2.11	0.81
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.10	0.81
2:C:516:ARG:NH1	2:C:521:PRO:HB3	1.96	0.80
2:C:604:ALA:HB3	2:C:612:VAL:HB	1.63	0.80
3:D:1107:VAL:CG1	3:D:1217:ILE:HA	2.10	0.80
1:L:101:LEU:HD22	1:L:140:MET:HE1	1.61	0.80
2:M:1097:LEU:H	2:M:1097:LEU:HD12	1.45	0.80
3:N:646:LYS:HE2	3:N:722:GLU:OE2	1.82	0.80
3:N:984:THR:HG23	3:N:987:GLU:H	1.47	0.80
2:C:435:TYR:CE1	2:C:539:VAL:HG22	2.16	0.80
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.60	0.80
3:N:1262:LEU:HD21	3:N:1351:GLU:HB3	1.62	0.80
1:K:33:GLY:HA2	1:K:195:LEU:HB2	1.62	0.80
2:M:17:PRO:HB2	2:M:20:GLU:HB2	1.63	0.80
2:M:154:ARG:O	2:M:154:ARG:HD3	1.81	0.80
3:N:29:PRO:HG2	3:N:549:ASN:ND2	1.96	0.80
5:P:132:ARG:HH21	5:P:184:ARG:HH12	1.29	0.80
1:B:86:VAL:H	1:B:124:ASN:HD22	0.86	0.80
3:D:770:LEU:HA	3:D:777:PRO:HA	1.64	0.80
1:K:86:VAL:N	1:K:124:ASN:HD22	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:537:LYS:HA	2:M:905:ILE:HD11	1.63	0.80
3:N:845:ASN:HB2	3:N:848:GLU:HG3	1.64	0.80
2:C:31:GLN:HE22	2:C:40:GLU:HB2	1.46	0.80
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.12	0.80
2:C:863:ASP:O	2:C:865:THR:N	2.14	0.80
2:C:916:GLU:OE1	2:C:917:LEU:HD23	1.81	0.80
2:M:15:LEU:HB2	2:M:586:ARG:HH12	1.45	0.80
3:N:563:PRO:HG3	5:P:185:GLN:OE1	1.81	0.80
3:N:1320:GLU:H	3:N:1323:GLN:NE2	1.80	0.80
1:A:86:VAL:HG12	1:A:124:ASN:HD22	1.47	0.80
3:D:616:GLN:HA	3:D:619:LEU:HB3	1.63	0.80
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.62	0.80
1:K:226:SER:O	1:K:228:PRO:HD3	1.80	0.80
2:M:876:VAL:HB	2:M:877:PRO:HD3	1.63	0.80
3:N:1065:LEU:HD23	3:N:1070:TYR:CD2	2.16	0.80
3:N:1462:LEU:HD22	3:N:1472:ILE:HD12	1.64	0.80
1:K:195:LEU:HD12	1:K:196:THR:H	1.45	0.80
2:M:285:LEU:HD11	2:M:302:VAL:HG22	1.62	0.80
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.63	0.80
3:D:1086:LEU:HD22	6:D:1525:STD:H113	1.62	0.79
4:E:43:GLU:O	4:E:45:ARG:HG2	1.83	0.79
2:M:650:ARG:HD3	2:M:650:ARG:N	1.96	0.79
3:N:177:ALA:C	3:N:199:LEU:HD13	2.07	0.79
3:D:1151:ARG:HA	3:D:1162:GLU:HG3	1.61	0.79
1:L:111:ALA:HB2	1:L:127:LEU:HB3	1.62	0.79
2:M:650:ARG:H	2:M:650:ARG:CD	1.93	0.79
3:N:465:LEU:HD12	3:N:513:ILE:HD11	1.62	0.79
3:N:676:MET:HE1	3:N:684:LYS:H	1.47	0.79
5:P:132:ARG:HH21	5:P:184:ARG:NH1	1.81	0.79
1:B:19:GLU:HG3	1:B:201:THR:O	1.81	0.79
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.46	0.79
3:D:826:PRO:HD2	3:D:829:VAL:HG13	1.65	0.79
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.65	0.79
1:B:100:LEU:HD12	1:B:115:LEU:HD21	1.64	0.79
2:C:964:LYS:HG2	2:C:968:LEU:HD11	1.64	0.79
3:N:162:ARG:HG3	3:N:434:ARG:NE	1.97	0.79
2:C:534:VAL:H	2:C:538:GLN:HE22	1.27	0.79
2:M:926:PHE:CE2	2:M:960:GLU:HG3	2.17	0.79
3:N:912:LYS:HB3	3:N:912:LYS:NZ	1.97	0.79
3:N:1124:GLN:HE21	3:N:1133:ARG:HD2	1.47	0.79
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:186:VAL:HG13	3:D:187:LYS:N	1.97	0.79
3:N:237:LYS:HB3	3:N:238:PRO:HD3	1.63	0.79
5:P:181:GLU:OE2	5:P:184:ARG:HD3	1.81	0.79
5:P:366:ALA:O	5:P:370:LYS:HB3	1.83	0.79
5:P:405:LEU:HD23	5:P:405:LEU:O	1.82	0.79
3:D:699:VAL:H	3:D:756:GLN:HE22	1.30	0.79
1:K:195:LEU:HD12	1:K:196:THR:N	1.98	0.79
2:M:548:PRO:HG2	2:M:842:ARG:NH2	1.98	0.79
3:N:399:ARG:CB	3:N:402:PRO:HG3	2.13	0.79
5:P:416:ARG:HG2	5:P:419:ARG:HG3	1.63	0.79
1:A:44:LEU:HD13	1:A:177:VAL:HG11	1.65	0.79
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.64	0.79
3:D:377:VAL:HG13	3:D:382:GLU:HG2	1.63	0.79
2:C:15:LEU:HD22	2:C:583:LEU:HD21	1.65	0.79
2:C:589:ARG:HD3	2:C:596:TYR:CZ	2.18	0.79
3:D:1253:THR:HG22	3:D:1258:ARG:HB2	1.64	0.79
4:E:54:LEU:HD23	4:E:54:LEU:O	1.81	0.79
5:F:287:THR:HG22	5:F:290:GLU:OE1	1.82	0.79
1:L:175:ARG:HB2	1:L:200:TRP:HB3	1.63	0.79
3:N:558:LEU:HD22	5:P:145:PRO:HB3	1.62	0.79
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.64	0.79
3:D:96:ALA:HB3	3:D:554:LEU:HG	1.66	0.78
3:D:141:ILE:HD12	3:D:141:ILE:N	1.95	0.78
2:M:21:ILE:H	2:M:21:ILE:HD12	1.48	0.78
2:M:845:ASN:HD22	2:M:884:GLN:HE22	1.31	0.78
3:N:659:LYS:O	3:N:663:GLU:HG3	1.83	0.78
3:D:396:VAL:HG21	3:D:447:VAL:HG12	1.64	0.78
4:E:46:PRO:HB3	4:E:54:LEU:HD22	1.65	0.78
2:M:230:ARG:HB2	2:M:233:GLU:HB3	1.63	0.78
3:N:785:ILE:HD12	3:N:785:ILE:N	1.98	0.78
2:C:1109:VAL:HG11	3:D:5:VAL:HG22	1.63	0.78
3:N:798:GLU:OE1	3:N:828:LYS:HE2	1.84	0.78
4:E:10:PHE:CE2	4:E:16:LYS:HG3	2.18	0.78
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.64	0.78
3:N:677:LEU:HD21	3:N:687:VAL:HG11	1.65	0.78
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.65	0.78
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.19	0.78
2:C:1032:PHE:HZ	2:C:1040:LEU:HD22	1.48	0.78
3:D:1046:GLN:NE2	3:D:1052:THR:HG22	1.99	0.78
3:D:813:LEU:O	3:D:817:GLU:HG3	1.82	0.78
3:N:617:ASN:O	3:N:618:LEU:HD23	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1116:ASN:HD22	3:N:1116:ASN:N	1.79	0.78
2:C:195:LEU:HG	2:C:238:LEU:HD12	1.66	0.78
2:M:564:MET:HA	2:M:564:MET:HE3	1.64	0.78
5:P:394:ARG:H	5:P:394:ARG:HD2	1.47	0.78
3:D:212:ARG:CD	3:D:445:ARG:HH22	1.96	0.78
3:D:218:LYS:NZ	3:D:370:ALA:HA	1.99	0.78
6:M:1120:STD:H243	3:N:1090:ASP:OD1	1.84	0.78
5:F:94:LEU:HD13	5:F:96:LEU:H	1.47	0.78
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.66	0.78
2:M:721:ARG:HE	2:M:783:ARG:NH2	1.82	0.78
5:P:132:ARG:O	5:P:136:LEU:HG	1.84	0.78
2:M:605:LYS:HD3	2:M:610:ARG:HH22	1.49	0.78
2:C:841:ASN:HD21	2:C:845:ASN:H	1.29	0.77
3:D:108:VAL:HB	3:D:109:PRO:CD	2.12	0.77
3:D:139:GLY:O	3:D:147:VAL:HG22	1.83	0.77
3:N:216:VAL:HG11	3:N:221:ALA:HA	1.66	0.77
3:D:28:LYS:HD3	3:D:41:ARG:HD2	1.65	0.77
5:F:358:LEU:HD11	5:F:370:LYS:CE	2.14	0.77
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.17	0.77
2:M:470:PRO:HB2	2:M:534:VAL:CG2	2.13	0.77
2:C:91:GLN:NE2	2:C:117:HIS:HB2	1.99	0.77
2:C:326:ASP:HA	2:C:331:ARG:HD2	1.63	0.77
2:C:742:VAL:HG12	2:C:743:VAL:H	1.49	0.77
3:D:972:LEU:HD23	3:D:973:GLN:N	1.99	0.77
3:N:231:VAL:HB	3:N:378:ILE:HG23	1.67	0.77
3:N:374:GLU:HG2	3:N:386:HIS:HA	1.66	0.77
2:C:22:GLN:NE2	2:C:336:VAL:HG21	1.98	0.77
3:D:653:PHE:CE1	3:D:695:ILE:HD11	2.20	0.77
1:K:12:THR:HG23	1:K:24:VAL:HB	1.67	0.77
1:K:58:ILE:HD13	1:K:140:MET:HB2	1.66	0.77
1:K:42:ARG:NH1	2:M:857:ASP:HB3	2.00	0.77
1:K:103:ALA:O	1:K:104:GLU:HG3	1.85	0.77
1:L:5:LYS:HA	1:L:5:LYS:HE3	1.66	0.77
3:N:1175:ILE:O	3:N:1179:GLU:HG3	1.83	0.77
2:M:471:TYR:HD1	2:M:486:MET:HE2	1.50	0.77
2:M:1083:GLU:O	2:M:1087:VAL:HG23	1.84	0.77
1:A:90:LEU:HB2	1:A:119:ASP:HB3	1.67	0.77
3:D:808:THR:HB	3:D:809:PRO:HD3	1.65	0.77
3:D:820:GLU:HG3	3:D:836:VAL:HG21	1.66	0.77
3:N:12:LEU:HD21	3:N:104:PHE:CE1	2.18	0.77
3:N:558:LEU:HD13	5:P:145:PRO:CA	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1381:VAL:HG23	3:N:1391:GLU:HB2	1.64	0.77
5:F:84:TYR:CE1	5:F:192:LEU:HD22	2.20	0.77
2:M:444:PRO:HB2	2:M:448:ASN:O	1.84	0.77
2:C:585:GLU:O	2:C:588:VAL:HG22	1.85	0.77
2:C:588:VAL:HG21	2:C:664:GLY:O	1.85	0.77
3:N:1450:ALA:HA	3:N:1455:LYS:HG3	1.65	0.77
2:C:116:GLY:HA2	2:C:379:GLU:OE1	1.85	0.77
3:D:55:ASP:HA	3:D:82:LYS:HG2	1.67	0.77
3:D:218:LYS:HZ3	3:D:370:ALA:CA	1.98	0.77
3:D:539:ASP:HB3	3:D:600:LEU:HD22	1.67	0.77
3:D:1009:LYS:HE3	3:D:1013:GLU:OE1	1.84	0.77
3:N:804:LEU:HD12	3:N:804:LEU:O	1.85	0.77
3:N:1114:THR:HG22	3:N:1116:ASN:HD21	1.50	0.77
3:N:1189:ARG:NH2	3:N:1203:LYS:HB2	1.99	0.77
2:C:564:MET:HE1	2:C:846:LYS:HE2	1.65	0.76
3:D:149:LYS:HD3	3:D:149:LYS:N	1.99	0.76
3:D:785:ILE:CD1	3:D:935:LYS:HA	2.14	0.76
2:M:691:SER:CB	2:M:858:MET:SD	2.73	0.76
3:D:570:GLU:HB2	5:F:214:GLN:HE21	1.49	0.76
3:D:1086:LEU:HB2	6:D:1525:STD:H312	1.67	0.76
3:D:1192:LEU:HD22	3:D:1345:GLU:OE2	1.85	0.76
3:N:1109:GLU:CG	3:N:1202:GLN:H	1.95	0.76
3:D:1047:LYS:HG2	3:D:1053:PHE:CE1	2.21	0.76
1:L:36:LEU:O	1:L:39:PRO:HD2	1.85	0.76
5:P:352:GLU:O	5:P:356:LYS:HG3	1.86	0.76
2:C:607:ASP:C	2:C:609:ASN:N	2.40	0.76
2:C:1071:ILE:CD1	3:D:655:PRO:HB3	2.16	0.76
3:D:914:LEU:HD23	3:D:914:LEU:O	1.85	0.76
3:D:1042:ARG:O	3:D:1057:VAL:HB	1.86	0.76
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.50	0.76
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.66	0.76
1:L:132:LEU:CD2	1:L:138:LEU:HB2	2.14	0.76
3:N:52:PRO:HG3	3:N:80:VAL:HA	1.66	0.76
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.67	0.76
3:N:554:LEU:HD22	3:N:570:GLU:HG2	1.66	0.76
3:N:833:GLU:OE1	3:N:834:THR:HG23	1.85	0.76
3:N:1258:ARG:NH2	3:N:1351:GLU:HG2	1.97	0.76
1:A:42:ARG:HH12	2:C:857:ASP:CB	1.96	0.76
2:C:897:LEU:HD11	2:C:920:GLN:HG2	1.68	0.76
1:K:228:PRO:HG3	1:L:11:PHE:CE2	2.20	0.76
3:N:858:VAL:HG12	3:N:859:ASP:H	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.68	0.76
5:P:109:GLY:O	5:P:112:ALA:HB3	1.85	0.76
2:C:188:LYS:C	2:C:188:LYS:HE2	2.10	0.76
2:C:292:ARG:NH1	2:C:299:LYS:HD3	1.99	0.76
3:D:77:GLY:O	3:D:78:VAL:HG23	1.86	0.76
3:D:857:ILE:HG22	3:D:858:VAL:HG22	1.68	0.76
1:K:59:GLU:HG3	1:K:60:ASP:H	1.50	0.76
2:M:679:PHE:O	2:M:681:GLY:N	2.19	0.76
2:C:1057:SER:HB2	3:D:622:ARG:O	1.85	0.76
3:D:93:ILE:HD13	3:D:548:ILE:HD11	1.68	0.76
3:N:1388:ARG:HG3	3:N:1389:LEU:HD23	1.68	0.76
2:C:952:LEU:HD12	2:C:969:GLN:HE22	1.50	0.76
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.67	0.76
3:D:493:ARG:NH2	3:D:1389:LEU:HD21	1.97	0.76
5:F:82:ARG:HG2	5:F:86:HIS:CD2	2.21	0.76
5:F:313:GLU:OE2	5:F:314:PRO:HD2	1.85	0.76
3:D:119:SER:CB	3:D:123:LEU:HB2	2.16	0.76
3:D:192:ALA:O	3:D:195:VAL:HG23	1.85	0.76
3:D:396:VAL:HG13	3:D:446:VAL:C	2.10	0.76
2:M:945:ARG:O	2:M:949:LYS:HG3	1.86	0.76
2:M:1031:ARG:HD2	3:N:619:LEU:O	1.86	0.76
1:B:58:ILE:HG22	1:B:59:GLU:HG2	1.67	0.76
2:C:1016:ILE:HD13	2:C:1016:ILE:N	1.95	0.76
3:D:1372:VAL:HA	3:D:1375:MET:HE3	1.67	0.76
1:K:11:PHE:CE2	1:L:228:PRO:HG3	2.20	0.76
2:M:605:LYS:HD3	2:M:610:ARG:NH2	2.00	0.76
2:C:192:PRO:HB2	2:C:195:LEU:HB2	1.66	0.75
2:C:496:ILE:O	2:C:515:ALA:HB1	1.85	0.75
3:D:1277:ILE:HG22	3:D:1278:ASP:N	1.98	0.75
2:M:176:VAL:O	2:M:178:PRO:HD3	1.85	0.75
2:M:770:GLU:HG2	3:N:65:ARG:HH22	1.51	0.75
3:N:137:PRO:HD2	3:N:453:ASP:HB3	1.67	0.75
1:A:206:THR:HB	1:A:209:GLU:CG	2.14	0.75
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.20	0.75
3:D:524:LEU:C	3:D:526:PRO:HD3	2.11	0.75
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.68	0.75
3:D:984:THR:HG23	3:D:987:GLU:H	1.50	0.75
3:D:1495:ILE:HG23	3:D:1499:ARG:HH21	1.51	0.75
3:N:1379:VAL:HB	3:N:1417:TRP:HB2	1.67	0.75
2:C:64:LEU:HD11	2:C:100:LEU:HB2	1.69	0.75
3:D:162:ARG:HG3	3:D:163:TYR:N	1.96	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1372:VAL:HG22	3:D:1375:MET:CE	2.17	0.75
1:L:20:TYR:O	1:L:207:PRO:HG2	1.87	0.75
4:O:26:ARG:O	4:O:30:LEU:HB2	1.86	0.75
1:B:151:VAL:N	1:B:169:ALA:HB3	2.01	0.75
3:D:1191:PRO:HA	3:D:1194:CYS:SG	2.26	0.75
5:F:261:PRO:O	5:F:265:VAL:HG23	1.87	0.75
2:C:944:LEU:HD21	2:C:963:LEU:CD2	2.17	0.75
2:C:1067:TYR:CB	5:F:341:PRO:HB3	2.17	0.75
2:C:1095:LEU:HD21	3:D:582:LEU:O	1.86	0.75
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.69	0.75
3:N:1335:LEU:HD23	3:N:1335:LEU:O	1.87	0.75
1:A:195:LEU:HD11	1:A:197:LEU:HD22	1.69	0.75
3:N:940:THR:O	3:N:943:THR:HG23	1.85	0.75
3:N:1336:LEU:HD12	3:N:1340:GLY:C	2.11	0.75
5:P:354:LEU:HD23	5:P:418:LEU:HD21	1.69	0.75
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.16	0.75
2:M:578:VAL:H	2:M:671:ASN:ND2	1.84	0.75
2:M:597:ALA:HB3	2:M:653:ASP:H	1.51	0.75
2:M:1007:ALA:HB2	3:N:648:MET:HG2	1.69	0.75
3:N:601:ARG:HD3	3:N:613:ARG:HH21	1.52	0.75
5:P:135:ILE:HD11	5:P:178:ARG:CB	2.17	0.75
4:E:82:GLU:H	4:E:82:GLU:CD	1.91	0.75
1:K:205:VAL:HG23	1:K:206:THR:N	2.00	0.75
3:N:1220:ALA:O	3:N:1222:GLY:N	2.19	0.75
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.68	0.75
1:B:58:ILE:HG22	1:B:59:GLU:H	1.50	0.75
2:C:443:THR:HG23	2:C:444:PRO:HD2	1.69	0.75
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.52	0.75
3:N:185:VAL:HA	3:N:189:GLN:HG3	1.67	0.75
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.68	0.75
3:N:1176:LYS:HA	3:N:1179:GLU:OE1	1.87	0.75
3:D:1120:VAL:HG11	3:D:1144:LEU:HG	1.67	0.74
3:D:1330:ILE:HG21	3:D:1335:LEU:HD12	1.66	0.74
2:M:165:LEU:HD12	2:M:166:PRO:HA	1.68	0.74
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.17	0.74
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.69	0.74
1:B:36:LEU:O	1:B:39:PRO:HD2	1.86	0.74
2:C:462:ASP:CG	2:C:463:GLU:H	1.95	0.74
2:C:1102:LEU:HD13	3:D:9:ARG:HB3	1.69	0.74
3:D:31:THR:HG23	3:D:45:PHE:HE2	1.50	0.74
3:D:205:TYR:CB	3:D:393:ILE:HD13	2.13	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:12:THR:HG23	1:L:24:VAL:HB	1.67	0.74
2:M:910:LYS:HB2	2:M:913:GLU:HG3	1.69	0.74
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.69	0.74
3:N:895:VAL:HG13	3:N:921:ARG:HH11	1.50	0.74
3:N:196:VAL:HG22	3:N:204:LEU:HD23	1.70	0.74
3:N:654:LYS:HB3	3:N:655:PRO:CD	2.18	0.74
3:N:956:ILE:HG12	3:N:1039:CYS:O	1.88	0.74
1:A:227:ASN:O	1:B:11:PHE:HB3	1.87	0.74
3:D:817:GLU:O	3:D:821:VAL:HG23	1.87	0.74
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.69	0.74
2:C:397:GLU:HG2	2:C:633:GLN:NE2	2.01	0.74
2:C:602:GLU:HB3	2:C:614:ARG:HB3	1.70	0.74
3:D:1489:GLN:O	3:D:1493:LYS:HG2	1.86	0.74
3:N:736:PHE:CD1	3:N:736:PHE:N	2.54	0.74
3:N:1121:PRO:HD3	3:N:1346:ARG:NH2	2.01	0.74
1:A:43:ILE:CD1	1:B:35:THR:HG21	2.17	0.74
2:C:689:VAL:HG23	2:C:870:ILE:HB	1.69	0.74
3:D:1046:GLN:HB3	3:D:1052:THR:HA	1.69	0.74
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.02	0.74
2:M:415:PRO:CB	2:M:418:LEU:HD23	2.16	0.74
2:M:456:ALA:HB3	2:M:459:ALA:HB2	1.68	0.74
2:C:607:ASP:C	2:C:609:ASN:H	1.94	0.74
2:C:863:ASP:O	2:C:865:THR:HG22	1.88	0.74
2:C:1074:GLU:HG2	2:C:1075:ASP:N	2.02	0.74
3:D:119:SER:H	3:D:123:LEU:HB2	1.51	0.74
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.69	0.74
2:M:281:LEU:HD12	2:M:305:PRO:HB2	1.68	0.74
3:N:1046:GLN:HG3	3:N:1046:GLN:O	1.88	0.74
2:C:534:VAL:N	2:C:538:GLN:HE22	1.86	0.74
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.18	0.74
3:N:1438:ALA:C	3:N:1440:PHE:H	1.96	0.74
3:D:96:ALA:CB	3:D:554:LEU:HG	2.16	0.74
2:M:709:GLU:O	2:M:790:LEU:HD22	1.88	0.74
2:M:1103:ASP:CG	2:M:1104:GLU:H	1.95	0.74
3:N:59:ALA:HB3	3:N:78:VAL:HG21	1.70	0.74
3:N:625:TYR:HB3	3:N:749:VAL:CG2	2.17	0.74
2:C:775:ARG:NH1	2:C:782:ALA:HB1	2.02	0.74
3:D:367:ILE:HD13	3:D:368:VAL:H	1.53	0.74
2:M:328:LEU:HB2	2:M:433:THR:HB	1.70	0.74
2:M:523:ILE:C	2:M:523:ILE:HD13	2.13	0.74
2:M:674:VAL:HG12	2:M:990:GLY:O	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:387:LEU:CD2	5:P:97:GLU:HG2	2.18	0.74
3:N:1104:GLU:O	3:N:1106:VAL:HG23	1.87	0.74
2:C:602:GLU:CG	2:C:603:VAL:H	2.01	0.73
5:P:226:LYS:HG3	5:P:242:TRP:CH2	2.23	0.73
1:B:25:LEU:C	1:B:25:LEU:HD23	2.13	0.73
2:C:690:ILE:HB	2:C:852:ILE:CD1	2.18	0.73
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.12	0.73
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.68	0.73
2:C:588:VAL:HG23	2:C:589:ARG:N	2.03	0.73
3:D:172:PRO:HB3	3:D:178:LEU:HD12	1.71	0.73
3:D:373:PRO:HB2	3:D:374:GLU:CD	2.13	0.73
3:D:828:LYS:HD3	3:D:828:LYS:N	2.04	0.73
3:N:368:VAL:HG22	3:N:369:ALA:N	2.02	0.73
3:N:565:ILE:HD12	3:N:565:ILE:H	1.53	0.73
5:P:367:MET:HG3	5:P:370:LYS:HE2	1.69	0.73
2:C:1087:VAL:O	2:C:1091:GLU:HB2	1.87	0.73
3:D:493:ARG:HE	3:D:1389:LEU:HG	1.54	0.73
5:F:392:VAL:HG11	5:F:396:ARG:CD	2.17	0.73
1:K:13:VAL:HG12	1:K:14:ARG:N	2.03	0.73
2:M:573:ARG:HH21	2:M:697:ARG:HB3	1.53	0.73
3:N:1115:THR:CG2	3:N:1151:ARG:HH21	2.01	0.73
2:C:30:LEU:HD12	2:C:30:LEU:O	1.88	0.73
2:C:568:ALA:CB	2:C:668:LEU:HD22	2.18	0.73
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.70	0.73
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.71	0.73
3:D:583:ASP:OD2	3:D:604:THR:HB	1.88	0.73
2:C:127:PHE:CD1	2:C:386:PHE:HE2	2.07	0.73
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.69	0.73
2:C:906:PHE:HD1	3:D:1067:VAL:HG22	1.48	0.73
3:D:93:ILE:HD13	3:D:548:ILE:CD1	2.19	0.73
3:D:375:GLU:O	3:D:385:VAL:HG12	1.88	0.73
2:M:839:LEU:HD12	2:M:839:LEU:O	1.89	0.73
3:N:396:VAL:HG13	3:N:447:VAL:HA	1.69	0.73
3:N:625:TYR:HB3	3:N:749:VAL:HG23	1.70	0.73
1:B:9:PRO:HB3	1:B:25:LEU:HG	1.70	0.73
3:D:72:VAL:HG12	3:D:73:CYS:N	2.03	0.73
3:D:191:LEU:HD22	3:D:195:VAL:HG11	1.70	0.73
3:D:1282:ARG:HD3	3:D:1295:GLU:OE1	1.88	0.73
3:N:1396:GLU:HA	3:N:1399:ASP:OD2	1.88	0.73
2:M:252:LYS:HE2	2:M:296:GLY:HA3	1.71	0.73
2:M:757:GLY:HA2	2:M:789:SER:OG	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:699:VAL:HB	3:N:716:PHE:O	1.89	0.73
3:N:1121:PRO:HD3	3:N:1346:ARG:HH22	1.54	0.73
2:C:889:HIS:HE1	3:D:951:ILE:N	1.84	0.73
3:D:40:GLU:HG3	3:D:41:ARG:H	1.52	0.73
3:D:217:LYS:NZ	3:D:389:GLU:HB3	2.04	0.73
3:D:223:LEU:N	3:D:365:ASP:HB2	2.02	0.73
3:D:245:LEU:HD13	3:D:245:LEU:H	1.52	0.73
3:D:808:THR:CB	3:D:809:PRO:HD3	2.19	0.73
1:K:35:THR:O	1:K:39:PRO:HG2	1.88	0.73
2:M:521:PRO:HG3	3:N:1068:LEU:HD21	1.69	0.73
3:D:851:LEU:O	3:D:854:ALA:HB3	1.89	0.73
4:E:54:LEU:CA	4:E:58:PRO:HG2	2.17	0.73
1:L:59:GLU:HG3	1:L:60:ASP:H	1.52	0.73
1:L:66:SER:O	1:L:75:VAL:HG23	1.88	0.73
2:M:507:ARG:H	2:M:507:ARG:HD2	1.52	0.73
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.71	0.73
3:N:658:LEU:HA	3:N:661:MET:HE3	1.69	0.73
3:N:701:LEU:HD21	3:N:763:MET:CE	2.19	0.73
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.88	0.73
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.24	0.72
5:F:84:TYR:O	5:F:88:ILE:HG13	1.89	0.72
2:M:130:ASN:HD21	2:M:383:ARG:HH21	1.37	0.72
3:N:455:ARG:HH22	5:P:140:ARG:HB2	1.52	0.72
2:C:183:SER:CB	2:C:190:LYS:HD3	2.19	0.72
3:D:571:LYS:HB2	3:D:571:LYS:NZ	2.04	0.72
5:F:234:LYS:HD2	5:F:236:SER:N	2.04	0.72
2:C:51:THR:HG21	2:C:348:LEU:HB3	1.72	0.72
2:C:290:LEU:HD23	2:C:290:LEU:H	1.54	0.72
3:D:119:SER:O	3:D:121:THR:N	2.23	0.72
3:D:907:GLU:HG3	3:D:1026:SER:HA	1.71	0.72
3:N:1271:LYS:NZ	3:N:1334:GLN:HE22	1.88	0.72
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.70	0.72
2:C:102:HIS:C	2:C:104:ASP:H	1.98	0.72
3:N:455:ARG:HG2	3:N:455:ARG:HH11	1.54	0.72
3:N:760:ARG:HE	4:O:3:GLU:CD	1.97	0.72
2:C:256:TYR:HE1	2:C:293:PHE:HB2	1.54	0.72
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.71	0.72
3:D:625:TYR:O	3:D:749:VAL:HG23	1.89	0.72
3:D:1282:ARG:HA	3:D:1315:ASP:OD1	1.90	0.72
2:M:573:ARG:NH2	2:M:697:ARG:HB3	2.04	0.72
2:M:689:VAL:CG2	2:M:870:ILE:HB	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:880:MET:HE2	3:N:1034:GLN:HG2	1.72	0.72
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.72	0.72
1:A:144:VAL:HG12	1:A:145:ASP:N	2.03	0.72
2:C:984:GLU:HG2	3:D:944:THR:O	1.90	0.72
4:E:23:VAL:HG22	4:E:64:ALA:HB3	1.70	0.72
1:K:133:GLU:HG2	1:K:134:GLU:H	1.54	0.72
2:M:569:VAL:HG12	2:M:996:LYS:O	1.90	0.72
3:N:560:GLN:HE21	3:N:560:GLN:HA	1.54	0.72
3:N:1463:LYS:O	3:N:1467:ILE:HG13	1.90	0.72
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.72	0.72
2:C:309:TYR:HA	2:C:312:ALA:HB3	1.71	0.72
2:C:671:ASN:N	2:C:671:ASN:HD22	1.88	0.72
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.72	0.72
2:M:226:VAL:HG22	2:M:230:ARG:NH2	2.03	0.72
2:M:1049:LEU:O	2:M:1053:LEU:HD23	1.89	0.72
2:M:1111:ILE:HG13	2:M:1112:PHE:CD1	2.22	0.72
3:N:422:ALA:HA	5:P:178:ARG:HH21	1.54	0.72
5:P:276:ARG:HH11	5:P:276:ARG:HG3	1.54	0.72
5:P:358:LEU:HD21	5:P:370:LYS:HZ3	1.50	0.72
1:A:98:THR:C	1:A:99:LEU:HD12	2.15	0.72
2:C:289:THR:HG22	2:C:290:LEU:H	1.53	0.72
2:C:575:GLN:N	2:C:667:ALA:HB1	2.04	0.72
2:C:1088:LEU:O	2:C:1092:LEU:HB2	1.90	0.72
3:D:223:LEU:HA	3:D:365:ASP:OD1	1.89	0.72
3:D:1130:ARG:HH21	3:D:1132:LEU:HG	1.55	0.72
3:N:12:LEU:HD11	3:N:104:PHE:HE1	1.55	0.72
3:N:1003:VAL:O	3:N:1007:VAL:HG13	1.88	0.72
2:C:720:GLU:OE2	2:C:760:SER:HB3	1.90	0.71
2:C:1095:LEU:C	2:C:1097:LEU:H	1.98	0.71
3:D:136:ASP:HB3	3:D:137:PRO:HD2	1.71	0.71
3:D:224:ARG:HG2	3:D:225:LEU:N	2.04	0.71
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.73	0.71
3:D:845:ASN:H	3:D:848:GLU:HG3	1.55	0.71
3:N:13:ALA:HB1	3:N:18:ILE:HD11	1.71	0.71
3:N:536:ALA:HB2	5:P:315:VAL:HG12	1.69	0.71
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.01	0.71
3:D:179:VAL:HG13	3:D:389:GLU:HG3	1.72	0.71
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.25	0.71
2:M:181:VAL:HG12	2:M:182:VAL:H	1.55	0.71
2:M:260:LEU:HG	2:M:261:ILE:N	2.05	0.71
3:N:621:LYS:O	3:N:622:ARG:CG	2.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:769:LEU:N	3:N:769:LEU:HD12	2.06	0.71
3:N:858:VAL:HG12	3:N:859:ASP:N	2.05	0.71
3:D:140:ALA:HB3	3:D:141:ILE:HD12	1.72	0.71
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.19	0.71
3:D:1113:GLY:O	3:D:1115:THR:N	2.23	0.71
3:D:1129:THR:HG23	3:D:1130:ARG:N	2.04	0.71
3:D:1486:VAL:O	3:D:1487:VAL:HG13	1.89	0.71
5:F:282:LEU:HD12	5:F:284:ARG:HB2	1.72	0.71
2:M:176:VAL:CG1	2:M:182:VAL:HG13	2.19	0.71
3:N:423:ASP:CB	5:P:178:ARG:HB2	2.18	0.71
3:N:1155:VAL:CG1	3:N:1183:ILE:HD11	2.20	0.71
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.72	0.71
3:D:1488:ASP:OD2	3:D:1491:THR:HG23	1.91	0.71
5:F:287:THR:HG22	5:F:290:GLU:CD	2.15	0.71
1:K:47:SER:HB2	1:K:217:ILE:HD13	1.72	0.71
1:B:226:SER:O	1:B:228:PRO:HD3	1.90	0.71
3:D:1209:LEU:CD2	3:D:1210:SER:H	2.03	0.71
4:E:23:VAL:HG21	4:E:65:MET:CG	2.19	0.71
3:N:601:ARG:HD3	3:N:613:ARG:NH2	2.05	0.71
3:N:887:ALA:HB1	3:N:893:GLU:HG2	1.72	0.71
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.73	0.71
3:D:493:ARG:HH21	3:D:1389:LEU:CD2	2.00	0.71
4:E:54:LEU:HG	4:E:58:PRO:CB	2.21	0.71
5:F:288:TYR:CE2	5:F:305:GLU:HG3	2.26	0.71
5:F:368:VAL:O	5:F:372:ARG:HB2	1.89	0.71
2:M:397:GLU:OE2	2:M:632:ASN:HB2	1.89	0.71
2:M:445:GLU:OE1	2:M:560:MET:HE3	1.91	0.71
2:M:574:ALA:O	2:M:575:GLN:HB2	1.89	0.71
2:M:1044:GLY:O	2:M:1046:ALA:N	2.17	0.71
3:N:119:SER:HB2	3:N:123:LEU:N	2.04	0.71
3:N:387:LEU:HD12	5:P:96:LEU:CB	2.21	0.71
3:N:481:MET:HE1	3:N:1388:ARG:HE	1.54	0.71
3:N:1158:VAL:HG12	3:N:1159:ARG:H	1.54	0.71
2:C:141:HIS:CE1	2:C:332:ARG:HH11	2.09	0.71
3:D:703:ASN:HD22	3:D:704:ARG:H	1.38	0.71
2:M:670:GLN:HE22	2:M:699:PHE:HA	1.56	0.71
3:N:387:LEU:HG	5:P:97:GLU:HG2	1.71	0.71
3:N:1045:MET:CG	3:N:1073:SER:HA	2.20	0.71
3:D:186:VAL:CG1	3:D:187:LYS:H	2.00	0.71
3:D:661:MET:HE3	3:D:673:ALA:HB1	1.70	0.71
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.15	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:21:ILE:HD12	2:M:21:ILE:N	2.05	0.71
2:M:922:PHE:HD2	2:M:964:LYS:HD3	1.56	0.71
3:N:176:ASP:OD1	3:N:219:GLU:HB2	1.90	0.71
3:N:785:ILE:H	3:N:785:ILE:CD1	1.96	0.71
3:N:1065:LEU:CD2	3:N:1070:TYR:HD2	2.02	0.71
2:C:682:TYR:CD1	3:D:635:PRO:HG2	2.26	0.71
3:D:699:VAL:N	3:D:756:GLN:HE22	1.88	0.71
3:D:1130:ARG:HH21	3:D:1132:LEU:H	1.37	0.71
2:M:140:ILE:HA	2:M:332:ARG:O	1.91	0.71
3:N:421:LEU:HG	3:N:422:ALA:O	1.90	0.71
3:N:434:ARG:O	3:N:447:VAL:HG22	1.91	0.71
3:N:562:ALA:O	3:N:567:ILE:HD11	1.91	0.71
3:N:1134:LEU:HD23	3:N:1135:ARG:H	1.55	0.71
1:A:39:PRO:O	1:A:43:ILE:HG12	1.91	0.71
2:C:490:GLU:O	2:C:490:GLU:HG2	1.89	0.71
3:D:709:HIS:HD2	3:D:711:LEU:HB2	1.56	0.71
3:N:535:PHE:O	5:P:314:PRO:HA	1.91	0.71
3:N:710:ARG:NH1	3:N:1210:SER:OG	2.23	0.71
5:P:77:THR:C	5:P:80:PRO:HD2	2.16	0.71
1:B:12:THR:OG1	1:B:24:VAL:HB	1.91	0.70
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.56	0.70
3:D:634:GLY:O	3:D:637:LEU:HB2	1.91	0.70
3:D:1310:ARG:HE	3:D:1327:ARG:HB3	1.55	0.70
1:L:137:ARG:HH12	1:L:139:ASN:HB3	1.56	0.70
1:L:216:GLU:OE2	1:L:220:GLU:HG3	1.90	0.70
3:N:700:VAL:HG22	3:N:718:PRO:HG3	1.73	0.70
3:N:882:PHE:O	3:N:886:VAL:HG23	1.90	0.70
3:N:1197:ARG:HD3	3:N:1396:GLU:HB2	1.72	0.70
3:D:533:GLY:HA3	5:F:309:LYS:HB3	1.72	0.70
3:D:795:VAL:HG12	3:D:796:ARG:H	1.56	0.70
3:D:814:ALA:O	3:D:818:ARG:HG3	1.91	0.70
3:D:1192:LEU:HD22	3:D:1345:GLU:CD	2.15	0.70
2:M:1043:TYR:CD2	3:N:763:MET:HA	2.27	0.70
3:N:141:ILE:HG22	3:N:142:LEU:N	2.02	0.70
4:O:41:GLU:HA	4:O:45:ARG:HG3	1.71	0.70
5:P:420:ASP:O	5:P:422:LEU:HD23	1.90	0.70
2:C:129:ILE:HG22	2:C:130:ASN:CG	2.16	0.70
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.04	0.70
2:C:194:VAL:HG22	2:C:221:LEU:HD12	1.71	0.70
2:M:428:ARG:NH2	2:M:449:ILE:HG22	2.05	0.70
2:M:689:VAL:HG23	2:M:870:ILE:HB	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:25:LYS:HA	4:E:28:GLN:NE2	2.06	0.70
2:M:1005:MET:HE1	3:N:645:PRO:HB2	1.72	0.70
3:N:466:LYS:HG2	3:N:510:GLU:HG2	1.71	0.70
3:N:1043:GLY:O	3:N:1057:VAL:N	2.24	0.70
3:N:1336:LEU:HA	3:N:1340:GLY:O	1.90	0.70
2:C:397:GLU:H	2:C:633:GLN:CD	1.99	0.70
3:D:984:THR:HG22	3:D:987:GLU:HG3	1.74	0.70
2:M:732:ALA:O	2:M:735:ARG:HG3	1.91	0.70
6:M:1120:STD:H312	3:N:1086:LEU:HD13	1.73	0.70
3:N:138:LYS:N	3:N:138:LYS:HD2	2.06	0.70
3:N:809:PRO:CB	3:N:812:ALA:HB2	2.18	0.70
3:N:951:ILE:O	3:N:951:ILE:HD13	1.92	0.70
4:O:24:ALA:O	4:O:28:GLN:HG3	1.91	0.70
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.06	0.70
2:C:1093:GLN:HG2	3:D:21:TRP:CH2	2.26	0.70
3:D:1155:VAL:HG11	3:D:1177:ALA:CB	2.22	0.70
1:K:218:LEU:O	1:K:222:LEU:HD22	1.92	0.70
2:M:265:ARG:HG3	2:M:288:ARG:CG	2.21	0.70
3:N:409:VAL:O	3:N:411:THR:HG23	1.91	0.70
3:N:1275:SER:HB2	3:N:1325:LEU:HD11	1.72	0.70
3:N:1277:ILE:HG22	3:N:1278:ASP:N	2.05	0.70
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.72	0.70
1:B:189:ARG:HH11	1:B:189:ARG:HG3	1.55	0.70
2:C:1005:MET:HE1	3:D:645:PRO:HD2	1.72	0.70
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.74	0.70
3:D:141:ILE:HG12	3:D:449:SER:HA	1.71	0.70
3:D:565:ILE:HD12	3:D:565:ILE:N	2.04	0.70
1:K:39:PRO:O	1:K:43:ILE:HG12	1.91	0.70
2:M:106:GLY:O	2:M:107:LEU:HD23	1.91	0.70
2:M:575:GLN:OE1	2:M:670:GLN:HG2	1.92	0.70
3:N:225:LEU:HB2	3:N:227:LEU:CD2	2.22	0.70
3:N:465:LEU:CD1	3:N:513:ILE:HD11	2.21	0.70
3:N:646:LYS:HA	3:N:720:LEU:HD22	1.73	0.70
3:N:1058:ARG:HG3	3:N:1058:ARG:HH11	1.57	0.70
3:D:215:TYR:HE2	3:D:375:GLU:HG2	1.56	0.70
3:D:1398:TRP:CZ3	3:D:1415:VAL:HG11	2.27	0.70
5:F:358:LEU:HD21	5:F:370:LYS:HZ2	1.56	0.70
3:N:82:LYS:NZ	5:P:339:PRO:HG2	2.07	0.70
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.72	0.70
3:N:1109:GLU:CB	3:N:1201:CYS:HA	2.22	0.70
2:C:650:ARG:HD3	2:C:650:ARG:N	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.27	0.70
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.74	0.70
3:D:1399:ASP:O	3:D:1403:LEU:HD12	1.91	0.70
2:M:1087:VAL:O	2:M:1091:GLU:HG3	1.90	0.70
1:A:219:ARG:HH22	1:B:219:ARG:HD2	1.56	0.70
2:C:383:ARG:HB2	2:C:383:ARG:HH11	1.57	0.70
2:C:551:GLU:HB3	2:C:906:PHE:CD2	2.27	0.70
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.22	0.70
3:D:141:ILE:HD11	3:D:450:TYR:N	2.05	0.70
3:D:168:THR:HG22	3:D:170:PRO:HD3	1.73	0.70
3:D:419:ASP:O	3:D:421:LEU:HD23	1.92	0.70
3:D:1462:LEU:HD23	3:D:1473:PRO:HD2	1.74	0.70
1:L:106:PRO:HG3	1:L:134:GLU:OE1	1.91	0.70
2:M:1015:LEU:HD13	2:M:1016:ILE:N	2.07	0.70
3:N:528:VAL:HG12	3:N:529:GLN:N	2.06	0.70
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.16	0.70
5:F:291:ILE:HD13	5:F:304:VAL:HG11	1.74	0.69
2:M:348:LEU:O	2:M:351:LEU:HB3	1.90	0.69
2:M:471:TYR:CD1	2:M:486:MET:HE2	2.26	0.69
3:N:583:ASP:OD1	3:N:604:THR:HB	1.92	0.69
3:N:817:GLU:O	3:N:821:VAL:HG23	1.92	0.69
1:A:197:LEU:HD23	1:A:197:LEU:N	1.98	0.69
1:B:206:THR:HG23	1:B:207:PRO:HD2	1.74	0.69
2:M:420:ARG:HD2	2:M:420:ARG:H	1.55	0.69
3:N:382:GLU:HG2	3:N:383:GLY:N	2.07	0.69
3:N:1292:VAL:HG11	3:N:1325:LEU:HD23	1.74	0.69
3:D:914:LEU:HD23	3:D:914:LEU:C	2.16	0.69
1:L:154:GLU:CD	3:N:840:LYS:HG3	2.17	0.69
2:M:325:ILE:H	2:M:325:ILE:CD1	1.95	0.69
2:M:1085:PHE:O	2:M:1088:LEU:HB3	1.92	0.69
3:N:231:VAL:HB	3:N:378:ILE:CG2	2.22	0.69
3:N:1472:ILE:O	3:N:1477:GLY:HA3	1.91	0.69
5:P:367:MET:O	5:P:370:LYS:HG2	1.91	0.69
1:B:56:VAL:HG22	1:B:142:VAL:HG12	1.75	0.69
2:C:49:ARG:HB2	2:C:49:ARG:HH11	1.58	0.69
2:C:289:THR:CG2	2:C:290:LEU:HD23	2.21	0.69
3:D:31:THR:HG23	3:D:45:PHE:CE2	2.27	0.69
3:D:368:VAL:HG12	3:D:369:ALA:H	1.56	0.69
3:D:613:ARG:HG3	3:D:613:ARG:HH11	1.57	0.69
5:F:287:THR:CG2	5:F:289:GLU:HB2	2.22	0.69
5:F:353:GLU:HG2	5:F:417:LYS:HB3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:220:GLU:O	1:L:223:THR:HG22	1.92	0.69
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.74	0.69
2:M:479:VAL:HG23	2:M:506:ASN:O	1.93	0.69
2:M:838:LYS:HG3	2:M:997:LEU:HB2	1.74	0.69
3:N:225:LEU:O	3:N:227:LEU:HD22	1.92	0.69
1:B:212:ASN:O	1:B:215:VAL:HG22	1.93	0.69
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.26	0.69
3:D:27:GLU:O	3:D:28:LYS:HG3	1.91	0.69
3:D:177:ALA:C	3:D:199:LEU:HD13	2.18	0.69
3:D:796:ARG:C	3:D:797:LYS:HG3	2.17	0.69
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.57	0.69
3:N:1011:PHE:CD2	3:N:1021:TYR:HB2	2.27	0.69
3:N:1340:GLY:O	3:N:1344:VAL:HG23	1.93	0.69
2:C:417:GLY:C	2:C:418:LEU:HD22	2.17	0.69
3:D:798:GLU:HG2	3:D:799:LYS:N	2.06	0.69
3:D:1101:VAL:HG21	3:D:1424:VAL:HG13	1.74	0.69
5:F:346:THR:HG23	5:F:422:LEU:HB3	1.75	0.69
2:M:443:THR:HB	2:M:444:PRO:CD	2.22	0.69
2:M:770:GLU:HG2	3:N:65:ARG:NH2	2.06	0.69
2:M:1044:GLY:C	2:M:1046:ALA:H	1.99	0.69
3:N:168:THR:HG22	3:N:170:PRO:HD3	1.74	0.69
5:P:274:THR:HG21	5:P:295:MET:CE	2.22	0.69
2:C:700:TYR:HB2	2:C:833:LEU:HD22	1.74	0.69
1:K:224:TYR:CE1	1:L:9:PRO:HD2	2.28	0.69
3:N:1311:LEU:HD23	3:N:1311:LEU:H	1.56	0.69
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.73	0.69
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.27	0.69
2:C:185:LYS:HE3	2:C:185:LYS:H	1.57	0.69
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.58	0.69
3:D:172:PRO:CB	3:D:178:LEU:HD12	2.23	0.69
3:D:197:SER:CB	3:D:203:ALA:HB3	2.16	0.69
3:D:433:GLY:H	3:D:448:GLU:HA	1.58	0.69
3:D:729:HIS:HE1	3:D:731:LEU:HG	1.57	0.69
3:D:1112:CYS:SG	3:D:1196:THR:HG23	2.32	0.69
3:D:1372:VAL:HA	3:D:1375:MET:CE	2.23	0.69
3:D:1488:ASP:HB3	4:E:39:VAL:HG12	1.74	0.69
2:M:515:ALA:O	2:M:516:ARG:HD3	1.92	0.69
2:M:889:HIS:CE1	3:N:951:ILE:H	2.07	0.69
3:N:58:CYS:SG	3:N:59:ALA:N	2.66	0.69
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.75	0.69
3:N:828:LYS:N	3:N:828:LYS:HD3	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:87:GLU:O	5:P:91:VAL:HB	1.93	0.69
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.22	0.69
1:K:97:VAL:HG12	1:K:98:THR:N	2.08	0.69
2:M:44:ILE:HG23	2:M:344:PHE:CE1	2.26	0.69
2:M:288:ARG:HA	2:M:288:ARG:NE	2.08	0.69
2:M:834:GLN:O	2:M:837:ASP:HB2	1.91	0.69
5:P:100:VAL:HG12	5:P:104:ARG:HH21	1.57	0.69
5:P:356:LYS:O	5:P:360:LYS:HG2	1.93	0.69
1:A:18:ARG:O	1:A:207:PRO:HD3	1.93	0.69
1:A:70:GLY:H	2:C:607:ASP:CG	2.00	0.69
2:C:64:LEU:HD12	2:C:101:ILE:O	1.93	0.69
2:C:944:LEU:HD21	2:C:963:LEU:HD23	1.74	0.69
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.58	0.69
2:M:226:VAL:HG22	2:M:230:ARG:HH22	1.58	0.69
2:M:350:ARG:HG2	2:M:350:ARG:HH11	1.58	0.69
3:N:875:THR:CG2	3:N:879:ARG:HG3	2.23	0.69
3:N:1136:LYS:HD2	3:N:1139:ASP:OD1	1.93	0.69
2:C:914:ILE:O	2:C:918:LEU:HD13	1.92	0.68
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.75	0.68
3:D:244:GLU:OE1	3:D:366:LYS:HG3	1.94	0.68
4:E:46:PRO:HB3	4:E:54:LEU:CD2	2.23	0.68
5:F:132:ARG:O	5:F:136:LEU:HG	1.93	0.68
5:F:358:LEU:HD11	5:F:370:LYS:HE3	1.74	0.68
1:L:38:ASN:O	1:L:41:ARG:HB3	1.92	0.68
2:M:159:ILE:HG22	2:M:175:GLU:HG3	1.74	0.68
1:B:3:ASP:O	1:B:7:LYS:HB2	1.93	0.68
1:B:133:GLU:HG3	1:B:134:GLU:H	1.58	0.68
2:C:776:SER:HA	2:C:780:GLU:HB3	1.75	0.68
3:D:864:VAL:HG12	3:D:865:THR:N	2.09	0.68
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.76	0.68
3:D:1314:LYS:HZ1	3:D:1317:ASP:HB2	1.55	0.68
5:F:386:VAL:HG13	5:F:387:GLY:N	2.06	0.68
1:K:11:PHE:O	1:L:228:PRO:HA	1.93	0.68
1:L:197:LEU:C	1:L:197:LEU:HD23	2.18	0.68
2:M:860:HIS:NE2	2:M:975:TYR:HB2	2.08	0.68
2:M:981:GLU:HB3	2:M:982:PRO:CD	2.23	0.68
3:N:1356:TYR:CD1	3:N:1363:LEU:HD21	2.27	0.68
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.24	0.68
2:C:1090:LYS:HD2	3:D:90:MET:HG3	1.75	0.68
3:D:116:LEU:HB3	3:D:118:LEU:CD1	2.19	0.68
3:D:544:TYR:CD1	3:D:581:LEU:HD22	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:616:GLN:HG2	3:D:619:LEU:HD22	1.74	0.68
3:D:1041:LEU:HB2	3:D:1058:ARG:O	1.92	0.68
3:D:1044:LEU:C	3:D:1045:MET:HE2	2.18	0.68
3:D:1229:ILE:HD11	3:D:1367:HIS:HB3	1.73	0.68
2:M:474:VAL:HG23	2:M:478:VAL:O	1.93	0.68
3:N:187:LYS:CE	3:N:213:VAL:H	2.06	0.68
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.20	0.68
1:B:28:LEU:O	1:B:192:LEU:HD22	1.92	0.68
2:C:881:ASN:H	2:C:881:ASN:HD22	1.40	0.68
2:C:1044:GLY:O	2:C:1046:ALA:N	2.27	0.68
3:D:211:VAL:HG12	3:D:212:ARG:H	1.58	0.68
3:D:765:SER:O	3:D:767:HIS:N	2.27	0.68
1:K:214:ALA:HA	1:K:217:ILE:HD12	1.76	0.68
2:M:129:ILE:CG2	2:M:130:ASN:N	2.55	0.68
3:N:125:GLN:HE22	3:N:587:ARG:NH2	1.92	0.68
3:N:413:ASP:OD1	3:N:444:VAL:HG21	1.93	0.68
1:B:206:THR:HB	1:B:209:GLU:CG	2.21	0.68
2:C:488:ALA:O	2:C:491:GLU:HB3	1.93	0.68
3:N:119:SER:H	3:N:123:LEU:CD1	2.02	0.68
3:N:397:LYS:HZ3	3:N:399:ARG:HH21	1.42	0.68
3:N:1219:GLU:HG2	3:N:1221:VAL:HG23	1.73	0.68
3:N:1459:LEU:HD12	3:N:1470:ARG:NH1	2.08	0.68
5:P:394:ARG:H	5:P:394:ARG:CD	2.00	0.68
3:D:223:LEU:HD13	3:D:365:ASP:H	1.59	0.68
3:D:728:LEU:HD12	3:D:729:HIS:H	1.59	0.68
3:D:1396:GLU:C	3:D:1398:TRP:H	2.00	0.68
3:D:1396:GLU:HG2	3:D:1399:ASP:HB2	1.76	0.68
5:F:416:ARG:NH2	5:F:419:ARG:HG2	2.09	0.68
3:N:237:LYS:HE2	3:N:238:PRO:HG3	1.76	0.68
3:N:522:PRO:HA	3:N:525:ARG:HH11	1.58	0.68
3:N:702:LEU:HD22	3:N:716:PHE:CD1	2.28	0.68
5:P:77:THR:O	5:P:80:PRO:HD2	1.94	0.68
1:A:197:LEU:H	1:A:197:LEU:CD2	1.92	0.68
2:C:203:ASP:OD1	2:C:206:THR:HG22	1.93	0.68
3:D:669:ASN:O	3:D:672:ALA:HB3	1.93	0.68
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.93	0.68
3:D:1462:LEU:CD2	3:D:1473:PRO:HD2	2.23	0.68
5:F:153:PRO:O	5:F:156:VAL:HG22	1.93	0.68
1:L:188:GLN:HG3	1:L:189:ARG:H	1.58	0.68
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.59	0.68
2:M:950:LEU:HD12	2:M:952:LEU:HD21	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:28:LYS:HG2	3:N:41:ARG:HD2	1.75	0.68
3:N:192:ALA:O	3:N:195:VAL:HG23	1.94	0.68
1:B:58:ILE:HG21	1:B:68:ILE:HD11	1.76	0.68
2:C:397:GLU:HG2	2:C:633:GLN:HE21	1.59	0.68
4:E:23:VAL:HG22	4:E:64:ALA:CB	2.23	0.68
3:N:850:LEU:HA	3:N:853:VAL:HG23	1.74	0.68
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.93	0.68
4:O:26:ARG:NH2	4:O:39:VAL:HG13	2.06	0.68
1:B:94:LEU:HD23	1:B:97:VAL:HG21	1.74	0.68
1:B:189:ARG:H	1:B:189:ARG:HD2	1.58	0.68
2:C:725:ASP:C	2:C:727:PRO:HD3	2.19	0.68
2:C:736:ASP:C	2:C:738:ASP:H	2.01	0.68
2:C:742:VAL:HG12	2:C:743:VAL:N	2.09	0.68
2:C:1043:TYR:HE1	3:D:710:ARG:O	1.77	0.68
3:D:596:SER:C	3:D:598:ARG:H	2.00	0.68
3:D:1121:PRO:C	3:D:1122:LEU:HD12	2.19	0.68
3:D:1258:ARG:NH1	3:D:1261:GLU:OE2	2.26	0.68
5:F:278:LEU:HB3	5:F:286:PRO:CG	2.24	0.68
2:M:200:LEU:HD13	2:M:300:ASP:OD1	1.94	0.68
2:M:478:VAL:CG1	2:M:506:ASN:HD22	2.07	0.68
1:A:228:PRO:HB3	1:B:13:VAL:HG21	1.75	0.68
2:C:893:ALA:O	2:C:897:LEU:HB2	1.94	0.68
3:D:728:LEU:CD2	3:D:745:MET:HE1	2.24	0.68
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.94	0.68
1:L:53:VAL:HA	1:L:144:VAL:HG22	1.75	0.68
2:M:26:TYR:O	2:M:29:ALA:HB3	1.93	0.68
3:N:558:LEU:HD13	5:P:145:PRO:HA	1.75	0.68
5:P:105:LYS:HB3	5:P:105:LYS:HZ3	1.59	0.68
2:C:474:VAL:HG23	2:C:478:VAL:O	1.94	0.67
2:C:673:LEU:HG	2:C:867:VAL:HG12	1.76	0.67
3:D:824:ASN:O	3:D:826:PRO:HD3	1.93	0.67
3:D:1109:GLU:HG2	3:D:1201:CYS:HB2	1.75	0.67
3:N:573:MET:SD	5:P:210:LEU:HB3	2.33	0.67
5:P:361:LEU:HD21	5:P:408:LEU:CB	2.22	0.67
1:A:13:VAL:HG12	1:A:14:ARG:N	2.08	0.67
2:C:873:PRO:O	2:C:875:GLY:N	2.27	0.67
1:K:75:VAL:O	1:K:79:ILE:HG23	1.94	0.67
3:N:215:TYR:HD1	3:N:390:PRO:HD2	1.59	0.67
3:N:1110:ALA:O	3:N:1111:ASP:C	2.36	0.67
1:B:7:LYS:HE3	1:B:186:LEU:HD22	1.76	0.67
3:D:1068:LEU:O	3:D:1072:ILE:HG12	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1237:THR:HA	3:D:1255:GLY:HA3	1.76	0.67
2:M:470:PRO:HG3	2:M:485:TYR:CZ	2.29	0.67
2:M:640:ARG:HD3	2:M:642:ARG:NH2	2.09	0.67
3:N:47:GLU:OE1	3:N:53:ILE:HG22	1.94	0.67
1:A:206:THR:CG2	1:A:209:GLU:H	2.08	0.67
2:C:499:ALA:HA	2:C:532:MET:HE3	1.76	0.67
2:C:697:ARG:O	2:C:699:PHE:N	2.28	0.67
3:D:640:HIS:NE2	3:D:717:GLN:NE2	2.42	0.67
3:N:486:ARG:HE	3:N:489:ARG:HD3	1.60	0.67
1:A:186:LEU:HB2	1:A:192:LEU:CD1	2.23	0.67
2:C:710:ILE:HD11	2:C:758:ARG:CZ	2.25	0.67
3:D:79:GLU:O	3:D:80:VAL:HB	1.94	0.67
3:D:520:LEU:HD12	3:D:521:PRO:CD	2.22	0.67
3:D:651:GLU:O	3:D:654:LYS:HB2	1.95	0.67
3:D:754:PHE:CD1	4:E:24:ALA:HB1	2.30	0.67
3:D:820:GLU:HG2	3:D:825:ALA:O	1.94	0.67
3:D:986:ARG:O	3:D:990:ASP:OD1	2.11	0.67
2:M:95:TYR:CE2	2:M:114:PHE:HB3	2.29	0.67
3:N:185:VAL:HG13	3:N:189:GLN:OE1	1.95	0.67
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.76	0.67
5:P:416:ARG:CZ	5:P:419:ARG:HD2	2.25	0.67
2:C:658:GLY:H	2:C:661:SER:CB	2.05	0.67
3:D:434:ARG:H	3:D:447:VAL:HG22	1.58	0.67
3:D:435:VAL:HG22	3:D:446:VAL:HG13	1.76	0.67
3:D:702:LEU:HB3	3:D:745:MET:HG2	1.77	0.67
1:L:197:LEU:HD21	1:L:199:ILE:HG13	1.76	0.67
2:M:313:LEU:HD13	2:M:321:GLU:HG2	1.75	0.67
2:M:1015:LEU:HB2	5:P:334:PRO:O	1.94	0.67
3:N:481:MET:CE	3:N:1388:ARG:HE	2.07	0.67
3:N:959:GLU:O	3:N:962:GLN:HB2	1.95	0.67
1:B:27:PRO:HG2	1:B:186:LEU:CD1	2.24	0.67
2:C:163:ILE:HG13	2:C:171:TRP:CZ3	2.30	0.67
2:C:184:MET:HE1	2:C:196:LEU:HD13	1.77	0.67
2:C:1030:GLN:O	3:D:622:ARG:HA	1.94	0.67
3:D:396:VAL:HG22	3:D:447:VAL:HA	1.77	0.67
3:D:1018:ASN:O	3:D:1022:VAL:HG23	1.94	0.67
3:D:1476:THR:HG22	3:D:1476:THR:O	1.94	0.67
1:K:54:THR:O	1:K:54:THR:CG2	2.42	0.67
3:N:455:ARG:HH22	5:P:140:ARG:CB	2.07	0.67
3:N:949:ILE:HD11	3:N:1023:MET:HE1	1.76	0.67
3:N:1432:LYS:H	3:N:1432:LYS:HD2	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:480:THR:HG22	2:C:481:ASP:H	1.59	0.67
2:C:1050:GLN:NE2	3:D:1469:GLY:O	2.27	0.67
3:D:79:GLU:HG2	3:D:80:VAL:H	1.58	0.67
3:D:724:GLN:O	3:D:724:GLN:HG2	1.95	0.67
3:D:984:THR:CG2	3:D:987:GLU:H	2.08	0.67
1:K:41:ARG:NH1	1:K:177:VAL:O	2.28	0.67
1:K:206:THR:HG22	1:K:209:GLU:N	2.09	0.67
3:N:481:MET:O	3:N:489:ARG:HB2	1.94	0.67
3:N:525:ARG:N	3:N:526:PRO:HD3	2.09	0.67
5:P:367:MET:HA	5:P:370:LYS:CD	2.23	0.67
2:C:595:LEU:HD13	2:C:639:GLN:OE1	1.95	0.67
3:D:222:GLY:HA2	3:D:365:ASP:O	1.94	0.67
3:D:959:GLU:HB2	3:D:963:TYR:CE1	2.30	0.67
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.25	0.67
1:K:25:LEU:HD22	1:L:225:PHE:CZ	2.29	0.67
2:M:186:VAL:HG23	2:M:187:ASN:H	1.60	0.67
2:M:577:PRO:HA	2:M:671:ASN:HD21	1.60	0.67
2:M:927:GLY:HA2	2:M:930:LYS:NZ	2.10	0.67
3:N:387:LEU:HD23	3:N:388:HIS:N	2.10	0.67
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.23	0.67
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.77	0.67
2:C:395:LYS:CE	2:C:407:LYS:HZ2	2.07	0.67
2:C:1032:PHE:CZ	2:C:1040:LEU:HD22	2.28	0.67
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.77	0.67
3:D:828:LYS:HD3	3:D:828:LYS:H	1.60	0.67
3:D:1020:LEU:HD12	3:D:1023:MET:CE	2.25	0.67
2:M:575:GLN:C	2:M:667:ALA:HB1	2.20	0.67
3:N:12:LEU:HD21	3:N:104:PHE:CZ	2.30	0.67
3:D:709:HIS:ND1	3:D:1231:GLU:HG3	2.10	0.66
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.76	0.66
3:N:592:THR:HG23	3:N:600:LEU:HD22	1.77	0.66
3:N:1062:ARG:C	3:N:1062:ARG:HD3	2.21	0.66
3:N:1118:ILE:HG23	3:N:1346:ARG:HE	1.60	0.66
1:A:189:ARG:HD3	1:A:191:ASP:OD1	1.95	0.66
1:A:213:GLN:O	1:A:217:ILE:HG13	1.95	0.66
2:C:495:THR:CG2	2:C:517:ARG:HE	2.08	0.66
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.77	0.66
3:D:795:VAL:HG12	3:D:796:ARG:N	2.09	0.66
3:D:1109:GLU:CG	3:D:1201:CYS:HB2	2.25	0.66
3:N:154:THR:HG22	3:N:155:ASP:H	1.59	0.66
5:P:367:MET:O	5:P:371:LEU:HG	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:ARG:HH12	1:A:88:ARG:CZ	2.09	0.66
2:C:338:GLU:HA	2:C:341:THR:HG22	1.78	0.66
2:C:854:PRO:HB2	2:C:856:GLU:HG2	1.78	0.66
3:D:186:VAL:HG21	3:D:213:VAL:N	2.11	0.66
3:D:217:LYS:HZ1	3:D:389:GLU:HB3	1.59	0.66
3:D:542:ASP:O	3:D:546:ARG:HG2	1.95	0.66
3:D:551:ASN:O	3:D:554:LEU:HB3	1.94	0.66
3:D:704:ARG:CD	3:D:705:ALA:H	2.09	0.66
3:D:1155:VAL:HG21	3:D:1183:ILE:HD11	1.75	0.66
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.10	0.66
1:K:183:ASP:OD1	2:M:938:LYS:HE3	1.95	0.66
2:M:573:ARG:O	2:M:574:ALA:O	2.13	0.66
3:N:245:LEU:HD11	3:N:248:PRO:HG2	1.76	0.66
3:N:1314:LYS:NZ	3:N:1317:ASP:OD2	2.27	0.66
3:D:117:ASP:C	3:D:118:LEU:HD12	2.20	0.66
5:F:194:LEU:O	5:F:194:LEU:HD13	1.95	0.66
2:M:300:ASP:C	2:M:302:VAL:H	2.01	0.66
3:N:699:VAL:HA	3:N:718:PRO:HD3	1.77	0.66
3:N:1046:GLN:HE22	3:N:1050:GLY:HA2	1.61	0.66
5:P:88:ILE:CG2	5:P:193:ARG:HH11	2.08	0.66
1:A:101:LEU:HD11	1:A:109:VAL:HG13	1.77	0.66
1:A:115:LEU:HD12	1:A:115:LEU:O	1.96	0.66
2:C:139:GLN:OE1	2:C:415:PRO:HD3	1.95	0.66
2:C:627:ARG:HG3	2:C:628:PHE:N	2.05	0.66
2:C:863:ASP:O	2:C:863:ASP:CG	2.38	0.66
3:D:131:LYS:HG3	3:D:568:ARG:CG	2.23	0.66
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.77	0.66
5:F:133:ALA:HA	5:F:136:LEU:CD1	2.25	0.66
5:F:371:LEU:HA	5:F:375:LEU:H	1.59	0.66
1:K:143:ARG:O	1:K:144:VAL:HG23	1.94	0.66
2:M:199:VAL:HG21	2:M:238:LEU:HD12	1.77	0.66
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.10	0.66
3:N:771:SER:HB2	3:N:778:LEU:HD22	1.76	0.66
3:N:1114:THR:OG1	3:N:1195:GLN:HB2	1.95	0.66
5:P:134:LYS:HB2	5:P:178:ARG:NH1	2.11	0.66
2:C:29:ALA:O	2:C:44:ILE:HD13	1.95	0.66
2:C:690:ILE:O	2:C:858:MET:HE1	1.95	0.66
3:D:493:ARG:NH2	3:D:1389:LEU:HD11	2.10	0.66
2:M:432:ARG:HH22	3:N:1047:LYS:CD	2.02	0.66
2:M:610:ARG:HH11	2:M:610:ARG:HG3	1.60	0.66
3:N:702:LEU:HB3	3:N:745:MET:HE2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1422:MET:HE3	3:N:1426:LYS:HG2	1.78	0.66
5:P:93:LEU:HD13	5:P:99:GLU:HG2	1.78	0.66
5:P:368:VAL:O	5:P:371:LEU:HB2	1.94	0.66
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.76	0.66
2:C:607:ASP:HB2	2:C:610:ARG:HG3	1.78	0.66
3:D:1033:GLN:OE1	3:D:1036:ARG:NH1	2.28	0.66
3:D:1209:LEU:HD23	3:D:1210:SER:H	1.60	0.66
4:E:54:LEU:HG	4:E:58:PRO:HB2	1.78	0.66
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.75	0.66
2:M:451:LEU:O	2:M:452:ILE:HG23	1.95	0.66
1:B:175:ARG:NH1	1:B:202:ASP:HB3	2.09	0.66
2:C:417:GLY:O	2:C:418:LEU:HD13	1.95	0.66
2:C:768:THR:HB	2:C:771:GLU:HB3	1.77	0.66
2:C:1049:LEU:O	2:C:1053:LEU:HD23	1.95	0.66
3:D:947:ILE:O	3:D:947:ILE:HG13	1.96	0.66
5:F:136:LEU:CD1	5:F:137:GLY:H	2.07	0.66
5:F:137:GLY:HA2	5:F:140:ARG:NH2	2.11	0.66
2:M:252:LYS:HE2	2:M:296:GLY:CA	2.26	0.66
2:M:1056:LYS:HE3	3:N:751:LEU:HG	1.76	0.66
3:N:98:PRO:HG3	3:N:515:GLU:HB3	1.78	0.66
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.26	0.66
3:N:426:LYS:NZ	5:P:138:SER:HA	2.10	0.66
3:N:493:ARG:HE	3:N:1389:LEU:HD21	1.61	0.66
3:N:777:PRO:HG2	3:N:912:LYS:O	1.95	0.66
1:A:182:GLU:CD	2:C:935:GLY:H	2.04	0.66
2:C:508:ILE:HG21	2:C:513:VAL:HG21	1.78	0.66
2:C:673:LEU:CD2	2:C:867:VAL:HA	2.15	0.66
2:C:857:ASP:O	2:C:978:ARG:HG3	1.96	0.66
5:F:291:ILE:HD13	5:F:304:VAL:CG1	2.25	0.66
2:M:18:LEU:C	2:M:408:ARG:HH21	2.04	0.66
2:M:21:ILE:H	2:M:21:ILE:CD1	2.08	0.66
2:M:302:VAL:O	2:M:305:PRO:HD2	1.95	0.66
2:M:858:MET:HE2	2:M:867:VAL:HG23	1.78	0.66
3:N:195:VAL:O	3:N:205:TYR:HD1	1.79	0.66
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.31	0.66
2:C:599:GLU:HG2	2:C:600:ASP:N	2.09	0.66
2:C:1095:LEU:HG	3:D:603:LEU:HD13	1.78	0.66
3:D:498:VAL:O	3:D:501:ALA:HB3	1.96	0.66
3:D:704:ARG:HD2	3:D:705:ALA:H	1.60	0.66
3:D:761:ILE:CD1	4:E:23:VAL:HG11	2.25	0.66
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:74:GLU:HB3	3:N:75:ARG:NH2	2.11	0.66
3:N:162:ARG:HG3	3:N:434:ARG:CZ	2.26	0.66
3:N:885:ILE:HD13	3:N:937:TYR:CG	2.31	0.66
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.78	0.66
3:N:1115:THR:HG22	3:N:1151:ARG:HH21	1.60	0.66
3:N:1158:VAL:HG12	3:N:1159:ARG:N	2.11	0.66
3:N:1205:TYR:CE1	3:N:1221:VAL:HG11	2.30	0.66
5:P:300:ASP:CG	5:P:301:ALA:N	2.53	0.66
1:A:1:MET:HB2	1:A:6:LEU:HB2	1.79	0.65
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.77	0.65
2:C:964:LYS:HG2	2:C:968:LEU:CD1	2.26	0.65
3:D:584:ASN:ND2	3:D:590:PRO:CD	2.56	0.65
3:D:661:MET:CE	3:D:673:ALA:HB1	2.26	0.65
3:D:788:GLY:O	3:D:792:ILE:HG22	1.96	0.65
3:D:1150:ALA:HB3	3:D:1187:PRO:HB2	1.78	0.65
5:F:157:GLU:O	5:F:161:GLN:HG3	1.96	0.65
1:K:59:GLU:HG3	1:K:60:ASP:N	2.11	0.65
2:M:300:ASP:HB2	2:M:303:PHE:HB2	1.76	0.65
2:M:605:LYS:CB	2:M:610:ARG:HH12	2.09	0.65
2:M:838:LYS:HD3	2:M:846:LYS:NZ	2.10	0.65
3:N:416:ALA:H	3:N:417:PRO:CD	2.07	0.65
3:N:468:LEU:HD12	3:N:468:LEU:O	1.96	0.65
3:N:1252:ILE:H	3:N:1252:ILE:HD12	1.62	0.65
2:C:202:TYR:OH	2:C:304:LEU:HD22	1.96	0.65
2:C:575:GLN:HA	2:C:662:GLU:OE2	1.96	0.65
2:C:969:GLN:NE2	2:C:971:LYS:HE2	2.12	0.65
3:D:792:ILE:HD12	3:D:941:PHE:CE1	2.31	0.65
3:D:1145:TYR:CD2	3:D:1146:GLY:N	2.64	0.65
1:L:3:ASP:CG	1:L:4:SER:H	2.03	0.65
3:N:76:CYS:SG	3:N:78:VAL:HG23	2.36	0.65
3:D:74:GLU:HB2	3:D:75:ARG:NH1	2.12	0.65
3:N:736:PHE:O	3:N:737:ASN:C	2.39	0.65
1:A:32:PHE:C	1:A:34:VAL:H	2.04	0.65
1:A:62:LEU:HD12	1:A:62:LEU:N	2.07	0.65
2:C:239:PHE:HE2	2:C:253:ALA:HB3	1.61	0.65
2:C:588:VAL:CG2	2:C:589:ARG:N	2.60	0.65
2:C:1074:GLU:HG2	2:C:1075:ASP:H	1.62	0.65
3:D:754:PHE:O	3:D:757:ALA:HB3	1.96	0.65
1:K:41:ARG:O	1:K:45:LEU:HD12	1.95	0.65
1:L:176:ARG:HH22	3:N:884:ARG:CD	2.10	0.65
2:M:100:LEU:O	2:M:101:ILE:HD13	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:146:VAL:CG1	2:M:162:ILE:HG12	2.26	0.65
2:M:603:VAL:HG23	2:M:647:GLN:O	1.97	0.65
2:M:1089:VAL:HG13	2:M:1099:VAL:CG2	2.26	0.65
2:M:1091:GLU:O	2:M:1094:ALA:HB3	1.96	0.65
3:N:1147:ARG:HB2	3:N:1166:LEU:HD21	1.79	0.65
5:P:415:THR:HG22	5:P:417:LYS:HG3	1.78	0.65
1:B:87:VAL:HG12	1:B:122:ILE:HG12	1.78	0.65
2:C:461:VAL:CG1	2:C:465:GLY:HA2	2.27	0.65
2:C:534:VAL:N	2:C:538:GLN:NE2	2.45	0.65
2:C:1008:ARG:HG2	2:C:1009:SER:N	2.11	0.65
3:D:202:VAL:O	3:D:204:LEU:HG	1.96	0.65
3:D:1123:PHE:HE2	3:D:1184:GLN:HA	1.60	0.65
3:D:1309:ALA:HB1	3:D:1326:THR:HG23	1.78	0.65
5:F:402:ASN:O	5:F:406:ARG:HG3	1.97	0.65
1:K:64:GLU:O	1:K:64:GLU:HG2	1.97	0.65
2:M:18:LEU:HA	2:M:408:ARG:HH21	1.62	0.65
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.79	0.65
3:N:1282:ARG:HB3	3:N:1282:ARG:CZ	2.27	0.65
1:A:206:THR:CB	1:A:209:GLU:HG3	2.24	0.65
3:D:145:VAL:CG2	3:D:146:PRO:HD2	2.18	0.65
3:D:705:ALA:CB	3:D:706:PRO:CD	2.75	0.65
3:D:969:ARG:HH11	3:D:969:ARG:CB	2.02	0.65
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.22	0.65
4:E:61:GLU:CD	4:E:62:THR:N	2.55	0.65
5:F:358:LEU:HD11	5:F:370:LYS:NZ	2.10	0.65
3:N:770:LEU:HD11	3:N:919:PHE:CD2	2.32	0.65
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.32	0.65
1:A:138:LEU:HD11	1:A:140:MET:HE2	1.78	0.65
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.78	0.65
3:D:785:ILE:HD11	3:D:935:LYS:HA	1.77	0.65
5:F:256:ARG:NH2	5:F:260:ILE:HB	2.12	0.65
3:N:387:LEU:CG	5:P:97:GLU:HG2	2.27	0.65
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.25	0.65
3:N:975:GLU:OE1	3:N:988:ARG:NH1	2.29	0.65
4:O:40:LEU:HD12	4:O:40:LEU:O	1.96	0.65
2:C:930:LYS:HD3	2:C:960:GLU:OE1	1.96	0.65
3:D:368:VAL:HG12	3:D:369:ALA:N	2.12	0.65
2:M:266:ARG:HD2	2:M:266:ARG:N	2.09	0.65
2:M:480:THR:HG21	2:M:482:GLU:HB3	1.79	0.65
3:N:732:VAL:HB	3:N:736:PHE:CE1	2.29	0.65
3:N:1155:VAL:HG11	3:N:1183:ILE:HD11	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:358:ARG:HB3	2:C:372:LEU:HD12	1.79	0.65
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.62	0.65
5:F:358:LEU:HD11	5:F:370:LYS:HZ1	1.62	0.65
1:L:206:THR:HG22	1:L:209:GLU:H	1.62	0.65
4:O:41:GLU:H	4:O:42:PRO:HD2	1.61	0.65
3:D:25:GLU:HB2	3:D:92:HIS:CE1	2.32	0.65
3:D:108:VAL:CB	3:D:109:PRO:HD3	2.17	0.65
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.80	0.65
3:D:217:LYS:HB2	3:D:217:LYS:HZ3	1.61	0.65
3:D:373:PRO:HB2	3:D:374:GLU:OE1	1.97	0.65
3:D:561:GLY:HA3	5:F:184:ARG:HH12	1.62	0.65
3:D:642:CYS:HB3	3:D:716:PHE:CB	2.27	0.65
3:D:1046:GLN:HE21	3:D:1052:THR:HG22	1.61	0.65
3:D:1064:GLY:O	3:D:1066:THR:N	2.30	0.65
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	1.79	0.65
5:F:94:LEU:HD13	5:F:95:THR:N	2.12	0.65
1:K:101:LEU:C	1:K:101:LEU:HD23	2.21	0.65
2:M:62:GLY:O	2:M:103:LYS:HG3	1.96	0.65
2:M:805:ARG:HG3	2:M:823:VAL:HG22	1.78	0.65
3:N:122:GLU:O	3:N:126:VAL:HB	1.97	0.65
2:C:49:ARG:HH11	2:C:49:ARG:CB	2.10	0.64
2:C:480:THR:HG21	2:C:482:GLU:HB3	1.79	0.64
2:C:516:ARG:HH11	2:C:521:PRO:HA	1.61	0.64
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.78	0.64
3:D:658:LEU:O	3:D:661:MET:HB2	1.97	0.64
3:D:1146:GLY:CA	3:D:1207:TYR:HB2	2.26	0.64
3:D:1189:ARG:HB3	3:D:1189:ARG:HH11	1.60	0.64
3:D:1428:ALA:O	3:D:1431:THR:HG23	1.96	0.64
3:D:1451:ALA:O	3:D:1454:GLY:N	2.28	0.64
5:F:277:GLN:O	5:F:280:GLN:HB3	1.97	0.64
2:M:332:ARG:CZ	2:M:464:LEU:HD11	2.27	0.64
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.78	0.64
3:N:119:SER:O	3:N:121:THR:N	2.30	0.64
3:N:1057:VAL:HG13	3:N:1069:GLU:OE2	1.97	0.64
3:N:1189:ARG:NE	3:N:1204:CYS:SG	2.69	0.64
2:C:154:ARG:C	2:C:156:GLY:H	2.05	0.64
2:C:602:GLU:HG2	2:C:603:VAL:N	2.00	0.64
3:D:486:ARG:HA	3:D:489:ARG:HD3	1.79	0.64
3:D:864:VAL:HG12	3:D:865:THR:H	1.63	0.64
3:D:876:SER:OG	3:D:879:ARG:HG3	1.97	0.64
4:E:45:ARG:HB3	4:E:46:PRO:HD2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:45:ARG:HH22	4:E:72:ARG:HH22	1.44	0.64
5:F:350:LEU:CD1	5:F:422:LEU:HD12	2.26	0.64
1:L:2:LEU:HD12	1:L:3:ASP:H	1.61	0.64
2:M:139:GLN:NE2	2:M:415:PRO:HD3	2.02	0.64
2:M:332:ARG:NH1	2:M:464:LEU:HD21	2.12	0.64
2:M:1005:MET:CB	3:N:629:SER:HB2	2.27	0.64
3:N:166:GLN:HB3	3:N:395:VAL:HG23	1.79	0.64
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.12	0.64
3:N:1271:LYS:HZ1	3:N:1334:GLN:HE22	1.45	0.64
3:N:1378:TYR:O	3:N:1420:LEU:HB3	1.97	0.64
5:P:94:LEU:HD13	5:P:95:THR:N	2.13	0.64
2:C:153:ALA:O	2:C:155:PRO:HD3	1.97	0.64
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.12	0.64
3:D:32:ILE:HD12	3:D:527:MET:HG2	1.79	0.64
3:D:477:LEU:HA	3:D:480:GLU:CB	2.25	0.64
3:D:554:LEU:HD23	3:D:574:LEU:HD22	1.79	0.64
3:D:739:ASP:OD1	3:D:743:ASP:OD2	2.16	0.64
3:N:536:ALA:HB2	5:P:315:VAL:CG1	2.27	0.64
3:N:1209:LEU:HD13	3:N:1215:VAL:HA	1.79	0.64
1:A:99:LEU:HD12	1:A:99:LEU:N	2.12	0.64
3:D:790:TYR:CE1	3:D:1022:VAL:HG13	2.32	0.64
3:D:853:VAL:HA	3:D:858:VAL:O	1.98	0.64
3:D:1063:GLU:CG	3:D:1064:GLY:H	2.09	0.64
4:E:54:LEU:CG	4:E:58:PRO:HG2	2.27	0.64
2:M:325:ILE:HD12	2:M:325:ILE:N	2.03	0.64
2:M:693:GLU:HA	2:M:696:LYS:CD	2.24	0.64
2:M:1090:LYS:HE2	2:M:1090:LYS:HA	1.79	0.64
3:N:434:ARG:HG2	3:N:447:VAL:HG21	1.79	0.64
3:N:1324:PRO:HG3	3:N:1330:ILE:HD11	1.78	0.64
4:O:39:VAL:HG22	4:O:67:GLU:OE2	1.97	0.64
2:C:458:TYR:HB3	2:C:470:PRO:HG2	1.79	0.64
2:C:722:ILE:CD1	2:C:823:VAL:HG21	2.27	0.64
1:L:91:ASN:O	1:L:94:LEU:HD12	1.97	0.64
2:M:102:HIS:C	2:M:104:ASP:H	2.05	0.64
3:N:428:LYS:CE	3:N:451:ASP:HB3	2.27	0.64
3:N:543:LEU:O	3:N:546:ARG:HB2	1.97	0.64
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.32	0.64
3:D:159:ARG:HB2	3:D:159:ARG:HH11	1.59	0.64
3:D:373:PRO:HG2	3:D:374:GLU:H	1.62	0.64
3:D:378:ILE:HD13	3:D:378:ILE:N	2.09	0.64
3:D:1151:ARG:HA	3:D:1162:GLU:CG	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:189:ARG:NH1	1:L:155:LYS:NZ	2.45	0.64
1:L:176:ARG:HH12	3:N:884:ARG:HD3	1.61	0.64
2:M:106:GLY:C	2:M:107:LEU:HD23	2.22	0.64
2:M:167:LYS:C	2:M:169:GLY:H	2.03	0.64
2:M:571:LEU:N	2:M:571:LEU:HD12	2.13	0.64
2:M:759:THR:HB	2:M:785:VAL:HG11	1.78	0.64
3:N:773:ALA:O	3:N:774:SER:HB3	1.98	0.64
5:P:401:GLU:O	5:P:405:LEU:HB3	1.97	0.64
2:C:128:ILE:C	2:C:129:ILE:HD12	2.23	0.64
3:D:93:ILE:CD1	3:D:548:ILE:HD11	2.27	0.64
3:D:385:VAL:HG13	3:D:385:VAL:O	1.97	0.64
3:D:1167:SER:O	3:D:1171:VAL:HG23	1.98	0.64
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.12	0.64
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.78	0.64
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.24	0.64
3:D:598:ARG:HD2	3:D:599:PRO:HD2	1.78	0.64
3:D:616:GLN:CA	3:D:619:LEU:HB3	2.27	0.64
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.13	0.64
3:D:1474:ALA:O	3:D:1477:GLY:N	2.31	0.64
1:K:59:GLU:CG	1:K:60:ASP:H	2.07	0.64
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.79	0.64
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.78	0.64
3:N:47:GLU:CD	3:N:53:ILE:HG22	2.22	0.64
3:N:245:LEU:HD12	3:N:249:TYR:HB2	1.79	0.64
3:N:441:ARG:C	3:N:443:VAL:H	2.05	0.64
1:B:86:VAL:HG13	1:B:123:MET:HB2	1.78	0.64
1:B:122:ILE:HG22	1:B:124:ASN:H	1.63	0.64
2:C:111:ASP:O	2:C:113:VAL:HG23	1.98	0.64
2:C:441:VAL:O	2:C:559:LEU:HD13	1.98	0.64
2:C:442:GLU:OE2	2:C:543:ASN:HB2	1.98	0.64
2:C:1083:GLU:O	2:C:1087:VAL:HG23	1.98	0.64
3:D:1155:VAL:HG11	3:D:1183:ILE:HD11	1.79	0.64
1:K:53:VAL:HG21	1:K:82:LEU:O	1.98	0.64
2:M:676:ILE:HG22	2:M:988:VAL:O	1.97	0.64
3:N:225:LEU:HD22	3:N:440:VAL:HG21	1.80	0.64
3:N:642:CYS:O	3:N:642:CYS:SG	2.56	0.64
3:N:1434:TRP:HZ3	3:N:1457:ASP:H	1.44	0.64
5:P:139:ALA:HB1	5:P:152:ASP:CB	2.28	0.64
5:P:163:LEU:HD13	5:P:174:LEU:CD2	2.27	0.64
1:A:173:PRO:O	1:A:201:THR:HG23	1.97	0.64
1:B:23:PHE:HB2	1:B:197:LEU:HD21	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:59:GLU:HG3	1:B:60:ASP:H	1.62	0.64
1:B:152:PRO:CD	1:B:155:LYS:HD2	2.25	0.64
2:C:97:ARG:NH2	2:C:109:LYS:HD2	2.13	0.64
2:C:1058:ASP:HB2	3:D:621:LYS:NZ	2.13	0.64
3:D:32:ILE:O	5:F:258:ILE:HG23	1.97	0.64
3:D:1020:LEU:HD21	3:D:1038:LEU:HD13	1.80	0.64
3:D:1476:THR:CG2	4:E:21:VAL:HG22	2.27	0.64
2:M:18:LEU:CA	2:M:408:ARG:NH2	2.58	0.64
2:M:480:THR:CG2	2:M:482:GLU:HB3	2.27	0.64
5:P:325:LYS:HD2	5:P:326:ASP:OD2	1.98	0.64
3:D:149:LYS:HD3	3:D:149:LYS:H	1.63	0.63
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.13	0.63
1:K:103:ALA:C	1:K:104:GLU:HG3	2.22	0.63
1:L:58:ILE:HD13	1:L:140:MET:CB	2.28	0.63
1:L:100:LEU:HB2	1:L:115:LEU:HD11	1.81	0.63
2:M:192:PRO:O	2:M:195:LEU:HB3	1.98	0.63
2:M:580:MET:HE3	2:M:584:GLU:HG3	1.80	0.63
2:M:679:PHE:C	2:M:681:GLY:H	2.04	0.63
2:M:886:LEU:O	2:M:887:GLU:C	2.41	0.63
2:C:607:ASP:HB2	2:C:610:ARG:NH1	2.13	0.63
2:C:1016:ILE:H	2:C:1016:ILE:CD1	1.83	0.63
3:D:129:PHE:CD2	3:D:587:ARG:CZ	2.82	0.63
3:D:994:GLN:O	3:D:998:GLU:HG3	1.98	0.63
3:D:1441:GLN:NE2	3:D:1441:GLN:HA	2.14	0.63
3:D:1472:ILE:O	3:D:1477:GLY:HA3	1.97	0.63
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.80	0.63
2:M:926:PHE:O	2:M:929:ARG:HB2	1.97	0.63
3:N:14:SER:HG	3:N:511:TRP:NE1	1.95	0.63
3:N:868:TYR:CE1	3:N:869:MET:HE2	2.29	0.63
3:D:72:VAL:CG1	3:D:73:CYS:N	2.61	0.63
3:D:1046:GLN:CB	3:D:1052:THR:HA	2.28	0.63
3:D:1363:LEU:HD12	3:D:1364:HIS:O	1.98	0.63
5:F:278:LEU:HB3	5:F:286:PRO:HG2	1.80	0.63
1:K:151:VAL:HG22	1:K:155:LYS:NZ	2.14	0.63
3:N:686:GLU:HA	3:N:689:ASP:OD2	1.98	0.63
3:N:798:GLU:HB2	3:N:828:LYS:HG2	1.80	0.63
3:N:1147:ARG:CB	3:N:1188:VAL:HG21	2.16	0.63
3:N:1462:LEU:HD23	3:N:1473:PRO:HD2	1.80	0.63
1:B:221:HIS:HA	1:B:224:TYR:HD2	1.63	0.63
2:C:12:VAL:HG22	2:C:13:ILE:HG23	1.80	0.63
2:C:535:SER:O	2:C:538:GLN:HG2	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:770:LEU:HG	3:D:919:PHE:HE1	1.63	0.63
3:D:807:ALA:HB2	3:D:833:GLU:CB	2.28	0.63
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.29	0.63
3:D:996:TRP:NE1	3:D:1056:PRO:HG2	2.12	0.63
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.79	0.63
1:L:33:GLY:HA2	1:L:195:LEU:HB2	1.81	0.63
1:L:103:ALA:O	1:L:104:GLU:HG3	1.98	0.63
2:M:595:LEU:HD21	2:M:623:TYR:HB3	1.81	0.63
2:M:946:ARG:O	2:M:950:LEU:HB2	1.99	0.63
3:N:374:GLU:HB3	3:N:385:VAL:O	1.98	0.63
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.80	0.63
3:N:1432:LYS:H	3:N:1432:LYS:CD	2.12	0.63
1:B:89:PHE:HB3	1:B:94:LEU:HD22	1.79	0.63
3:D:965:GLU:HG3	3:D:969:ARG:HH22	1.62	0.63
3:D:1211:MET:HE1	4:E:16:LYS:HD2	1.80	0.63
1:K:58:ILE:HD13	1:K:140:MET:CB	2.29	0.63
2:M:564:MET:HE1	2:M:846:LYS:HD2	1.81	0.63
2:M:1016:ILE:H	2:M:1016:ILE:CD1	1.95	0.63
3:N:133:ILE:HD13	3:N:454:ALA:HB1	1.80	0.63
1:B:23:PHE:HB2	1:B:197:LEU:CD2	2.28	0.63
1:B:221:HIS:HA	1:B:224:TYR:CD2	2.34	0.63
2:C:835:VAL:HG22	2:C:836:GLY:N	2.14	0.63
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.81	0.63
3:D:895:VAL:O	3:D:899:LEU:HD12	1.98	0.63
3:D:1280:VAL:HG12	3:D:1281:VAL:N	2.12	0.63
2:M:54:ILE:CG2	2:M:66:LEU:HB3	2.28	0.63
3:N:645:PRO:HG2	3:N:724:GLN:O	1.99	0.63
3:N:699:VAL:H	3:N:756:GLN:NE2	1.96	0.63
3:N:806:PHE:O	3:N:808:THR:N	2.32	0.63
5:P:295:MET:HA	5:P:295:MET:CE	2.26	0.63
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.80	0.63
1:A:44:LEU:HA	1:A:48:ILE:CD1	2.29	0.63
1:A:182:GLU:O	1:A:194:LYS:HB3	1.99	0.63
1:B:153:ALA:HA	1:B:156:HIS:NE2	2.13	0.63
2:C:196:LEU:HA	2:C:199:VAL:HG23	1.81	0.63
2:C:744:ARG:NE	2:C:747:ALA:HB2	2.13	0.63
3:D:141:ILE:H	3:D:141:ILE:CD1	1.90	0.63
3:D:231:VAL:HA	3:D:378:ILE:HG13	1.80	0.63
3:D:660:LYS:HD2	3:D:663:GLU:OE2	1.98	0.63
3:D:764:LEU:O	3:D:765:SER:C	2.42	0.63
3:D:1389:LEU:H	3:D:1389:LEU:CD2	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:239:ALA:O	5:F:243:ILE:HG13	1.99	0.63
1:K:54:THR:O	1:K:55:SER:HB2	1.96	0.63
1:K:183:ASP:N	2:M:938:LYS:HZ2	1.97	0.63
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.24	0.63
2:M:919:ALA:HA	2:M:968:LEU:HD21	1.79	0.63
3:N:915:VAL:O	3:N:918:ALA:HB3	1.99	0.63
3:N:1109:GLU:HB3	3:N:1201:CYS:HA	1.81	0.63
3:N:1364:HIS:ND1	3:N:1366:LYS:HG3	2.14	0.63
3:N:1432:LYS:HD2	3:N:1432:LYS:N	2.14	0.63
5:P:406:ARG:HG2	5:P:409:LYS:HE2	1.80	0.63
1:A:94:LEU:HD23	1:A:97:VAL:HG21	1.81	0.63
2:C:443:THR:CG2	2:C:450:GLY:H	2.10	0.63
2:C:904:PRO:HB2	2:C:907:ASP:O	1.98	0.63
2:C:1118:LYS:HA	3:D:23:TYR:CZ	2.34	0.63
3:D:34:TYR:OH	5:F:264:MET:HG3	1.99	0.63
5:F:295:MET:HA	5:F:295:MET:HE2	1.81	0.63
1:L:68:ILE:O	1:L:71:VAL:HB	1.98	0.63
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.81	0.63
3:N:475:LYS:O	3:N:478:LEU:HB2	1.98	0.63
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.34	0.63
3:N:1114:THR:CB	3:N:1195:GLN:HB2	2.29	0.63
1:B:23:PHE:CZ	1:B:208:LEU:HA	2.34	0.63
1:B:78:ILE:C	1:B:80:LEU:H	2.05	0.63
3:D:1063:GLU:HG2	3:D:1064:GLY:H	1.63	0.63
1:K:109:VAL:O	1:K:129:ILE:HB	1.99	0.63
1:L:92:PRO:C	1:L:94:LEU:H	2.06	0.63
2:M:433:THR:HG22	2:M:488:ALA:HB1	1.79	0.63
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.24	0.63
2:M:769:PRO:HB2	3:N:65:ARG:HH12	1.64	0.63
2:M:1025:ALA:HB3	2:M:1026:GLN:NE2	2.14	0.63
3:N:210:ARG:HH11	3:N:398:ALA:HB3	1.63	0.63
2:C:569:VAL:O	2:C:571:LEU:HD12	1.99	0.62
3:D:247:GLU:H	3:D:248:PRO:HD2	1.64	0.62
3:D:500:ARG:HH22	3:D:1388:ARG:NH1	1.97	0.62
1:L:137:ARG:HG2	1:L:137:ARG:HH11	1.64	0.62
2:M:857:ASP:HA	2:M:977:GLY:HA3	1.80	0.62
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.81	0.62
3:N:896:ALA:O	3:N:899:LEU:HD12	1.99	0.62
3:N:1159:ARG:O	3:N:1159:ARG:HG3	1.98	0.62
5:P:132:ARG:NH2	5:P:184:ARG:HH12	1.97	0.62
5:P:151:LEU:HB2	5:P:155:THR:OG1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:101:ILE:HD12	2:C:107:LEU:HD22	1.81	0.62
2:C:259:GLY:HA2	2:C:290:LEU:O	1.99	0.62
2:C:553:ASP:HA	2:C:881:ASN:HA	1.82	0.62
2:C:671:ASN:ND2	2:C:993:PHE:HD2	1.97	0.62
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.81	0.62
2:C:964:LYS:O	2:C:968:LEU:HD12	1.99	0.62
3:D:133:ILE:HG12	3:D:454:ALA:HB1	1.81	0.62
3:D:179:VAL:HG13	3:D:389:GLU:OE2	1.99	0.62
3:D:629:SER:O	3:D:744:GLN:HB3	2.00	0.62
3:D:1145:TYR:HD2	3:D:1146:GLY:N	1.96	0.62
2:M:15:LEU:HB2	2:M:586:ARG:NH1	2.10	0.62
2:M:1072:LYS:C	3:N:659:LYS:HZ2	2.07	0.62
3:N:139:GLY:HA3	3:N:452:ILE:HD13	1.81	0.62
3:N:430:ASP:HB3	3:N:432:TYR:CE2	2.33	0.62
3:N:892:ASP:HB3	3:N:895:VAL:CG2	2.29	0.62
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.26	0.62
1:B:156:HIS:CD2	1:B:157:GLY:H	2.17	0.62
2:C:252:LYS:HE2	2:C:296:GLY:HA2	1.81	0.62
2:C:580:MET:O	2:C:902:ILE:HA	1.99	0.62
3:D:693:GLU:O	3:D:694:VAL:C	2.43	0.62
3:D:1023:MET:O	3:D:1028:ALA:HB3	1.99	0.62
5:F:393:THR:HG22	5:F:394:ARG:N	2.10	0.62
1:K:127:LEU:HD12	1:K:128:HIS:N	2.13	0.62
2:M:543:ASN:HD22	2:M:562:SER:HB3	1.64	0.62
2:M:859:PRO:O	2:M:867:VAL:HG22	2.00	0.62
2:M:886:LEU:CD1	3:N:951:ILE:HG13	2.29	0.62
3:N:23:TYR:O	3:N:24:GLY:O	2.17	0.62
3:N:767:HIS:CD2	4:O:6:ILE:HG12	2.35	0.62
3:N:792:ILE:CD1	3:N:881:LEU:HD23	2.29	0.62
3:N:1437:ALA:HB3	3:N:1446:VAL:HG11	1.80	0.62
5:P:420:ASP:O	5:P:422:LEU:N	2.31	0.62
1:A:38:ASN:O	1:A:39:PRO:C	2.40	0.62
2:C:726:ILE:O	2:C:726:ILE:HG22	1.98	0.62
3:D:367:ILE:CD1	3:D:368:VAL:H	2.12	0.62
3:D:806:PHE:O	3:D:808:THR:N	2.32	0.62
2:M:580:MET:HE1	2:M:665:PHE:CE2	2.35	0.62
2:M:895:TYR:HD1	2:M:991:GLN:HE21	1.47	0.62
2:M:1094:ALA:HB2	3:N:520:LEU:HD13	1.80	0.62
3:N:90:MET:HB3	3:N:519:VAL:O	2.00	0.62
3:N:935:LYS:O	3:N:939:PHE:HD1	1.83	0.62
3:N:948:THR:OG1	3:N:949:ILE:N	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1078:ARG:HB3	3:N:1078:ARG:NH1	2.11	0.62
1:A:62:LEU:H	1:A:62:LEU:CD1	2.10	0.62
2:C:431:HIS:HD2	2:C:432:ARG:H	1.47	0.62
2:C:525:SER:O	2:C:528:GLU:HB2	1.99	0.62
2:C:1062:GLY:O	2:C:1063:ARG:C	2.41	0.62
3:D:119:SER:N	3:D:123:LEU:HB2	2.13	0.62
3:D:671:LYS:HA	3:D:674:ARG:HD3	1.81	0.62
2:M:480:THR:HG22	2:M:482:GLU:H	1.64	0.62
3:N:693:GLU:OE1	4:O:48:MET:HE1	1.98	0.62
3:N:813:LEU:HD12	3:N:814:ALA:N	2.14	0.62
1:A:5:LYS:HA	1:A:5:LYS:HE3	1.80	0.62
1:A:18:ARG:HH22	1:A:88:ARG:NH2	1.96	0.62
1:A:131:THR:C	1:A:132:LEU:HD12	2.25	0.62
2:C:6:PHE:O	2:C:7:GLY:O	2.16	0.62
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.81	0.62
3:D:225:LEU:HD12	3:D:440:VAL:HG21	1.82	0.62
3:D:898:GLU:HB3	3:D:921:ARG:HH22	1.65	0.62
3:D:1229:ILE:HD11	3:D:1367:HIS:C	2.25	0.62
5:F:287:THR:C	5:F:289:GLU:H	2.07	0.62
2:M:291:ALA:O	2:M:292:ARG:HB2	1.98	0.62
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.82	0.62
2:M:578:VAL:H	2:M:671:ASN:HD21	1.47	0.62
2:M:695:LEU:HD21	2:M:833:LEU:HB3	1.81	0.62
3:N:669:ASN:O	3:N:672:ALA:HB3	1.99	0.62
3:N:890:VAL:O	3:N:890:VAL:HG23	1.97	0.62
5:P:234:LYS:HE3	5:P:236:SER:HB3	1.81	0.62
1:A:198:ARG:C	1:A:199:ILE:HD12	2.25	0.62
2:C:770:GLU:HG2	3:D:65:ARG:HH22	1.63	0.62
2:C:967:PHE:HA	2:C:971:LYS:O	2.00	0.62
3:D:8:VAL:HG12	3:D:9:ARG:N	2.12	0.62
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.82	0.62
3:D:906:GLN:OE1	3:D:906:GLN:HA	1.99	0.62
3:D:994:GLN:NE2	3:D:998:GLU:CD	2.57	0.62
3:D:1319:VAL:HG12	3:D:1323:GLN:OE1	1.99	0.62
1:L:58:ILE:HD13	1:L:140:MET:HB2	1.82	0.62
2:M:578:VAL:HG13	2:M:671:ASN:ND2	2.14	0.62
2:M:863:ASP:CG	2:M:865:THR:HG22	2.24	0.62
3:N:939:PHE:O	3:N:942:SER:HB3	1.99	0.62
3:N:1197:ARG:HB2	3:N:1396:GLU:HG3	1.81	0.62
1:A:20:TYR:O	1:A:207:PRO:HG2	2.00	0.62
2:C:676:ILE:CG2	2:C:988:VAL:HG13	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:994:GLN:HE21	3:D:998:GLU:CD	2.07	0.62
1:K:6:LEU:C	1:K:8:ALA:H	2.06	0.62
1:K:62:LEU:HD23	1:K:163:ASN:OD1	1.99	0.62
3:N:793:THR:O	3:N:879:ARG:NH1	2.32	0.62
3:N:965:GLU:HA	3:N:968:ASP:HB2	1.82	0.62
1:A:75:VAL:O	1:A:75:VAL:HG12	2.00	0.62
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.80	0.62
1:B:101:LEU:HD23	1:B:101:LEU:C	2.24	0.62
5:F:88:ILE:CD1	5:F:193:ARG:HB2	2.26	0.62
1:K:12:THR:CG2	1:K:24:VAL:HB	2.29	0.62
2:M:679:PHE:CZ	2:M:978:ARG:NH1	2.67	0.62
3:N:1042:ARG:HG3	3:N:1042:ARG:O	1.99	0.62
1:B:153:ALA:HB1	1:B:166:PRO:CB	2.28	0.62
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.00	0.62
2:C:689:VAL:CG2	2:C:870:ILE:HB	2.30	0.62
2:C:813:VAL:HG21	2:C:815:LEU:HD13	1.82	0.62
3:D:218:LYS:CE	3:D:370:ALA:HA	2.30	0.62
1:K:1:MET:O	1:K:6:LEU:HD22	2.00	0.62
2:M:559:LEU:CD1	2:M:563:ASN:HD21	2.13	0.62
2:M:1056:LYS:HB3	3:N:624:ASP:H	1.64	0.62
3:N:191:LEU:HD22	3:N:195:VAL:HG11	1.80	0.62
3:N:948:THR:C	3:N:949:ILE:HG13	2.25	0.62
3:N:1155:VAL:O	3:N:1157:GLY:N	2.32	0.62
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.99	0.62
2:C:292:ARG:HD2	2:C:299:LYS:HE2	1.80	0.61
2:C:549:PHE:O	2:C:550:LEU:C	2.43	0.61
3:D:704:ARG:HG3	3:D:705:ALA:N	2.15	0.61
3:D:761:ILE:HD11	4:E:23:VAL:HG11	1.81	0.61
3:D:1170:ASP:O	3:D:1174:LEU:HG	2.01	0.61
2:M:537:LYS:CA	2:M:905:ILE:HD11	2.30	0.61
3:N:470:LEU:HD12	3:N:503:LEU:HG	1.82	0.61
3:N:1134:LEU:HD23	3:N:1135:ARG:N	2.15	0.61
4:O:36:LYS:C	4:O:38:THR:H	2.08	0.61
5:P:234:LYS:HE3	5:P:236:SER:CB	2.30	0.61
5:P:273:ARG:O	5:P:277:GLN:HG3	1.98	0.61
2:C:106:GLY:O	2:C:107:LEU:HD23	2.00	0.61
2:C:194:VAL:HG22	2:C:221:LEU:CD1	2.29	0.61
3:D:232:GLU:HB2	3:D:234:GLU:OE2	2.00	0.61
3:D:703:ASN:HD22	3:D:704:ARG:N	1.98	0.61
3:D:796:ARG:HD3	3:D:862:ASP:OD2	2.01	0.61
3:D:1045:MET:HG3	3:D:1073:SER:CA	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:282:LEU:HD12	5:F:284:ARG:H	1.64	0.61
2:M:215:GLY:O	2:M:218:VAL:HG23	1.99	0.61
2:M:626:ARG:NH2	2:M:639:GLN:HE22	1.97	0.61
2:M:927:GLY:HA2	2:M:930:LYS:HZ1	1.64	0.61
2:C:896:PHE:CE2	2:C:925:TYR:HB2	2.34	0.61
3:D:86:ARG:HG2	3:D:523:ASP:OD2	2.00	0.61
3:D:1262:LEU:CD2	3:D:1352:ILE:HG13	2.11	0.61
3:D:1379:VAL:CG1	3:D:1395:LEU:HD23	2.28	0.61
1:K:97:VAL:HG12	1:K:98:THR:H	1.65	0.61
2:M:15:LEU:HD21	2:M:583:LEU:HD22	1.82	0.61
3:N:231:VAL:CB	3:N:378:ILE:HG23	2.30	0.61
3:N:702:LEU:HB3	3:N:745:MET:CE	2.30	0.61
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.80	0.61
5:P:302:LYS:HD2	5:P:302:LYS:C	2.26	0.61
1:A:51:THR:HG22	1:A:145:ASP:O	1.99	0.61
2:C:571:LEU:HD12	2:C:571:LEU:H	1.65	0.61
2:C:658:GLY:N	2:C:661:SER:HB2	2.08	0.61
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.36	0.61
3:D:112:ILE:O	3:D:112:ILE:HD12	2.01	0.61
3:D:1159:ARG:HG2	3:D:1159:ARG:HH11	1.65	0.61
2:M:194:VAL:HG22	2:M:221:LEU:HD12	1.82	0.61
2:M:281:LEU:HD13	2:M:306:THR:HA	1.81	0.61
2:M:673:LEU:N	2:M:868:ASP:OD2	2.33	0.61
2:M:919:ALA:CA	2:M:968:LEU:HD21	2.30	0.61
2:M:1000:MET:HB2	2:M:1002:GLU:OE1	2.00	0.61
3:N:84:ILE:C	3:N:86:ARG:H	2.08	0.61
3:N:404:GLU:OE2	3:N:414:ARG:NH2	2.33	0.61
2:C:95:TYR:HB3	2:C:113:VAL:C	2.25	0.61
2:C:494:TYR:HB3	2:C:530:GLU:OE2	2.00	0.61
2:M:384:GLU:HG3	2:M:388:ARG:HE	1.66	0.61
2:M:943:VAL:HG13	2:M:985:GLY:H	1.64	0.61
3:N:854:ALA:C	3:N:856:GLY:H	2.08	0.61
2:C:194:VAL:HG21	2:C:221:LEU:O	2.00	0.61
2:C:829:GLN:CD	2:C:831:ARG:HD3	2.26	0.61
3:D:67:ARG:HB2	5:F:375:LEU:HD11	1.82	0.61
3:D:379:ALA:HB3	3:D:382:GLU:OE1	2.01	0.61
3:D:949:ILE:HD11	3:D:1023:MET:HE1	1.83	0.61
1:K:90:LEU:HB2	1:K:119:ASP:HB3	1.82	0.61
2:M:167:LYS:NZ	2:M:168:ARG:HH21	1.99	0.61
2:M:723:THR:HG23	2:M:725:ASP:H	1.66	0.61
3:N:116:LEU:HB3	3:N:118:LEU:HD13	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:562:ALA:HB3	3:N:567:ILE:HG12	1.83	0.61
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.81	0.61
3:N:935:LYS:CG	3:N:939:PHE:HE1	2.13	0.61
3:N:1262:LEU:HD23	3:N:1352:ILE:HG13	1.82	0.61
5:P:88:ILE:O	5:P:92:PRO:HG3	1.99	0.61
1:A:25:LEU:HD22	1:A:28:LEU:HD11	1.82	0.61
1:B:217:ILE:HG22	1:B:221:HIS:HD2	1.64	0.61
2:C:132:ALA:HB1	2:C:632:ASN:HD21	1.65	0.61
2:C:288:ARG:NE	2:C:288:ARG:HA	2.14	0.61
2:C:516:ARG:CD	3:D:1068:LEU:HD13	2.31	0.61
2:C:637:LEU:HA	2:C:659:PRO:HG3	1.82	0.61
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.35	0.61
5:F:354:LEU:HD23	5:F:418:LEU:HD21	1.83	0.61
2:M:113:VAL:O	2:M:115:LEU:HD23	2.01	0.61
2:M:137:VAL:HG13	2:M:409:ARG:O	2.01	0.61
2:M:512:ARG:CG	2:M:523:ILE:HD11	2.24	0.61
2:M:578:VAL:N	2:M:671:ASN:HD21	1.99	0.61
3:N:40:GLU:HG3	3:N:41:ARG:H	1.65	0.61
3:N:1363:LEU:HD11	3:N:1368:ILE:HD11	1.80	0.61
3:N:1396:GLU:HA	3:N:1399:ASP:CG	2.26	0.61
5:P:300:ASP:O	5:P:304:VAL:HG23	2.01	0.61
2:C:42:VAL:HG12	2:C:43:GLY:H	1.66	0.61
2:C:344:PHE:O	2:C:348:LEU:HD13	2.00	0.61
2:C:701:THR:HG23	2:C:832:LYS:HA	1.82	0.61
3:D:34:TYR:CE2	5:F:260:ILE:HG13	2.35	0.61
3:D:233:LYS:NZ	3:D:237:LYS:HD2	2.16	0.61
3:D:966:GLU:O	3:D:969:ARG:HG2	2.01	0.61
5:F:164:LYS:HB2	5:F:171:LYS:HZ1	1.66	0.61
5:F:207:LEU:HB2	5:F:212:LEU:CD2	2.31	0.61
5:F:386:VAL:C	5:F:388:ALA:H	2.09	0.61
1:K:25:LEU:HD23	1:K:195:LEU:HD23	1.81	0.61
2:M:578:VAL:N	2:M:671:ASN:ND2	2.49	0.61
2:M:620:LEU:HD23	2:M:620:LEU:H	1.65	0.61
2:M:774:LEU:HD23	5:P:354:LEU:HD21	1.83	0.61
3:N:912:LYS:HB3	3:N:912:LYS:HZ2	1.65	0.61
5:P:94:LEU:CG	5:P:97:GLU:HB2	2.31	0.61
1:A:32:PHE:C	1:A:34:VAL:N	2.58	0.61
1:B:101:LEU:HD23	1:B:102:LYS:N	2.15	0.61
2:C:52:PHE:O	2:C:54:ILE:N	2.33	0.61
3:D:385:VAL:HG21	5:F:97:GLU:OE2	2.00	0.61
3:D:493:ARG:NE	3:D:1389:LEU:HG	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:826:PRO:HD2	3:D:829:VAL:CG1	2.30	0.61
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.81	0.61
3:D:1389:LEU:HD23	3:D:1389:LEU:N	2.11	0.61
2:M:713:ARG:HB2	2:M:720:GLU:OE1	2.01	0.61
2:M:1051:GLU:OE2	3:N:752:SER:HB3	2.00	0.61
2:M:1055:LEU:CD2	2:M:1079:PRO:HG3	2.31	0.61
2:M:1115:LEU:HD13	3:N:85:VAL:HG12	1.83	0.61
3:N:409:VAL:O	3:N:411:THR:N	2.34	0.61
3:N:1042:ARG:HH12	3:N:1045:MET:CE	2.13	0.61
5:P:358:LEU:HD11	5:P:370:LYS:HD2	1.83	0.61
5:P:389:PHE:HE2	5:P:394:ARG:HG3	1.66	0.61
1:A:5:LYS:O	1:A:8:ALA:HB2	2.01	0.61
2:C:192:PRO:O	2:C:195:LEU:HB3	2.00	0.61
2:C:197:LEU:HD13	2:C:207:LEU:HD11	1.83	0.61
2:C:300:ASP:C	2:C:302:VAL:H	2.08	0.61
2:C:591:SER:O	2:C:592:LEU:HD23	2.01	0.61
2:C:691:SER:O	2:C:693:GLU:N	2.34	0.61
2:C:695:LEU:HD21	2:C:833:LEU:O	2.01	0.61
2:C:726:ILE:O	2:C:728:HIS:N	2.34	0.61
3:D:647:ARG:HD2	3:D:680:GLN:NE2	2.16	0.61
3:D:887:ALA:O	3:D:890:VAL:O	2.18	0.61
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.99	0.61
3:D:1201:CYS:SG	3:D:1204:CYS:CB	2.85	0.61
2:M:111:ASP:O	2:M:113:VAL:HG23	2.01	0.61
3:N:820:GLU:OE2	3:N:836:VAL:HG21	2.00	0.61
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.83	0.61
3:N:1121:PRO:O	3:N:1122:LEU:HD12	2.01	0.61
3:N:1277:ILE:O	3:N:1321:ALA:HA	2.00	0.61
3:N:1368:ILE:O	3:N:1372:VAL:HG23	2.01	0.61
1:A:161:ARG:HH11	1:A:161:ARG:HG3	1.65	0.60
1:A:218:LEU:HD23	1:B:222:LEU:HD11	1.82	0.60
2:C:412:ALA:HB1	2:C:419:THR:HG21	1.83	0.60
2:C:677:MET:HE2	2:C:679:PHE:CD1	2.36	0.60
3:D:218:LYS:HD3	3:D:372:ASP:H	1.66	0.60
3:D:784:ASP:O	3:D:787:LEU:HB3	2.01	0.60
3:D:1155:VAL:CG2	3:D:1183:ILE:HD11	2.31	0.60
2:M:398:THR:HG23	2:M:635:THR:HG21	1.83	0.60
2:M:516:ARG:NH1	2:M:521:PRO:HB3	2.16	0.60
2:M:922:PHE:CD2	2:M:964:LYS:HD3	2.34	0.60
2:M:1018:GLN:HG2	3:N:87:ARG:HH22	1.66	0.60
3:N:502:PHE:CZ	3:N:1452:ILE:HD11	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:852:ALA:HB1	3:N:857:ILE:HB	1.82	0.60
3:N:924:MET:HB3	4:O:7:ASP:OD2	2.00	0.60
3:N:955:VAL:HB	3:N:1011:PHE:HE1	1.65	0.60
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.31	0.60
3:N:1237:THR:HG22	3:N:1238:MET:N	2.16	0.60
2:C:266:ARG:HH11	2:C:266:ARG:HG3	1.66	0.60
2:C:277:ALA:O	2:C:281:LEU:HD23	2.02	0.60
2:C:436:GLY:HA2	2:C:538:GLN:O	2.01	0.60
2:C:564:MET:HE2	2:C:997:LEU:HD11	1.82	0.60
2:C:572:ILE:HG12	2:C:701:THR:O	2.01	0.60
2:C:636:ALA:HB2	2:C:705:ILE:CD1	2.31	0.60
3:D:716:PHE:O	3:D:718:PRO:HD3	2.01	0.60
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.67	0.60
3:D:1314:LYS:HZ3	3:D:1317:ASP:HB2	1.62	0.60
4:E:40:LEU:HD12	4:E:40:LEU:O	2.01	0.60
1:K:151:VAL:HG13	1:K:155:LYS:HD3	1.83	0.60
1:K:175:ARG:O	1:K:176:ARG:HB3	1.99	0.60
2:M:313:LEU:C	2:M:315:ALA:H	2.09	0.60
2:M:333:ILE:O	2:M:333:ILE:HG22	2.01	0.60
2:M:478:VAL:HG13	2:M:506:ASN:HD22	1.64	0.60
2:M:553:ASP:OD1	2:M:843:HIS:ND1	2.34	0.60
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.63	0.60
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.83	0.60
3:N:669:ASN:H	3:N:672:ALA:CB	2.15	0.60
3:N:770:LEU:HD11	3:N:919:PHE:CG	2.36	0.60
3:N:1155:VAL:CG2	3:N:1183:ILE:HD11	2.30	0.60
5:P:88:ILE:HD13	5:P:193:ARG:HD2	1.83	0.60
5:P:151:LEU:HB2	5:P:155:THR:H	1.65	0.60
2:C:116:GLY:HA2	2:C:379:GLU:CD	2.26	0.60
2:C:906:PHE:HE1	3:D:1067:VAL:HG13	1.66	0.60
2:C:1007:ALA:O	2:C:1027:PHE:HD2	1.83	0.60
3:D:714:GLN:HE22	3:D:735:ALA:HB1	1.65	0.60
3:D:1422:MET:CE	3:D:1426:LYS:HG2	2.27	0.60
3:D:1451:ALA:O	3:D:1453:ALA:N	2.34	0.60
2:M:375:SER:O	2:M:379:GLU:HB2	2.01	0.60
2:M:755:LEU:O	2:M:756:VAL:HG23	2.00	0.60
2:M:1103:ASP:CG	2:M:1104:GLU:N	2.58	0.60
3:N:187:LYS:HE2	3:N:213:VAL:CG1	2.18	0.60
3:N:574:LEU:HD12	3:N:574:LEU:O	2.01	0.60
3:N:911:LEU:O	3:N:914:LEU:N	2.34	0.60
3:N:1068:LEU:HD23	3:N:1072:ILE:HD13	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1258:ARG:NH2	3:N:1262:LEU:HD11	2.16	0.60
1:A:69:PRO:HA	2:C:607:ASP:OD2	2.01	0.60
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.26	0.60
1:B:175:ARG:HB2	1:B:200:TRP:HB3	1.82	0.60
2:C:1067:TYR:HB2	5:F:341:PRO:HB3	1.81	0.60
3:D:218:LYS:HD2	3:D:372:ASP:OD1	2.01	0.60
3:D:996:TRP:CZ3	3:D:999:THR:HG21	2.37	0.60
3:D:1120:VAL:HG11	3:D:1144:LEU:CG	2.31	0.60
3:D:1231:GLU:HB3	3:D:1232:PRO:CD	2.28	0.60
1:K:111:ALA:CB	1:K:127:LEU:HB3	2.31	0.60
1:L:33:GLY:HA3	1:L:181:VAL:HG13	1.83	0.60
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.35	0.60
2:M:1005:MET:HB3	3:N:629:SER:HB2	1.82	0.60
3:N:1291:SER:HB3	3:N:1293:PHE:HE1	1.67	0.60
5:P:139:ALA:HB1	5:P:152:ASP:HB2	1.83	0.60
5:P:220:LEU:O	5:P:220:LEU:HD23	2.00	0.60
2:C:16:PRO:O	2:C:18:LEU:HD12	2.01	0.60
2:C:762:LYS:HA	2:C:786:LYS:CD	2.28	0.60
2:C:762:LYS:HB2	2:C:762:LYS:NZ	2.16	0.60
3:D:1264:GLU:O	3:D:1265:ALA:C	2.44	0.60
3:D:1476:THR:HG23	4:E:21:VAL:CG2	2.29	0.60
4:E:39:VAL:HG22	4:E:67:GLU:CD	2.26	0.60
5:F:256:ARG:HH21	5:F:260:ILE:HB	1.65	0.60
1:L:30:ARG:NH2	2:M:692:GLU:OE2	2.28	0.60
1:L:49:PRO:HA	1:L:147:GLY:O	2.01	0.60
1:L:106:PRO:HD3	1:L:134:GLU:OE2	2.01	0.60
2:M:413:LEU:CD1	2:M:451:LEU:HD22	2.31	0.60
2:M:712:ALA:O	2:M:820:ARG:HB2	2.00	0.60
3:N:179:VAL:HG21	3:N:217:LYS:HE2	1.84	0.60
3:N:714:GLN:HE22	3:N:732:VAL:HG11	1.66	0.60
3:N:785:ILE:HG23	3:N:938:GLY:HA3	1.82	0.60
3:N:806:PHE:HD1	3:N:812:ALA:HB3	1.65	0.60
3:N:1071:PHE:O	3:N:1074:SER:OG	2.20	0.60
3:N:1403:LEU:O	3:N:1407:LEU:HD13	2.01	0.60
1:A:206:THR:HG22	1:A:208:LEU:N	2.16	0.60
2:C:328:LEU:HD13	2:C:433:THR:HB	1.83	0.60
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.01	0.60
2:C:943:VAL:HG21	2:C:973:VAL:HG13	1.82	0.60
3:D:525:ARG:N	3:D:526:PRO:HD3	2.15	0.60
3:D:609:GLY:HA3	3:D:614:PHE:H	1.66	0.60
3:D:987:GLU:O	3:D:991:GLN:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1007:VAL:CG2	3:D:1008:PHE:N	2.64	0.60
3:N:231:VAL:HA	3:N:378:ILE:HG12	1.82	0.60
3:N:1205:TYR:CE1	3:N:1221:VAL:CG1	2.85	0.60
1:A:114:PHE:CZ	1:A:142:VAL:HG21	2.37	0.60
1:B:86:VAL:HG12	1:B:124:ASN:CG	2.25	0.60
2:C:26:TYR:O	2:C:29:ALA:HB3	2.02	0.60
2:C:431:HIS:CD2	2:C:432:ARG:H	2.20	0.60
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.84	0.60
3:D:714:GLN:HE22	3:D:735:ALA:CB	2.14	0.60
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.84	0.60
3:D:1119:SER:O	3:D:1121:PRO:HD3	2.01	0.60
4:E:25:LYS:HA	4:E:28:GLN:CD	2.25	0.60
5:F:287:THR:HG23	5:F:289:GLU:H	1.67	0.60
1:K:151:VAL:O	1:K:151:VAL:HG12	2.01	0.60
2:M:73:LEU:HD23	2:M:93:PRO:O	2.02	0.60
3:N:554:LEU:HD12	3:N:558:LEU:HD11	1.83	0.60
3:N:889:ALA:HB1	3:N:930:LEU:HA	1.84	0.60
3:N:903:ASP:O	3:N:904:VAL:HG13	2.02	0.60
1:A:28:LEU:HB2	1:A:193:ASP:O	2.02	0.60
1:A:156:HIS:HD2	1:A:158:ILE:HG12	1.66	0.60
2:C:191:PHE:HD2	2:C:195:LEU:HD23	1.67	0.60
2:C:197:LEU:HD13	2:C:207:LEU:CD1	2.32	0.60
3:D:709:HIS:CD2	3:D:711:LEU:HB2	2.37	0.60
3:D:807:ALA:HB2	3:D:833:GLU:HB3	1.82	0.60
3:D:819:GLY:O	3:D:822:ALA:HB3	2.01	0.60
3:D:1264:GLU:OE2	3:D:1425:THR:HB	2.01	0.60
4:E:41:GLU:H	4:E:42:PRO:HD2	1.66	0.60
4:E:45:ARG:NH2	4:E:72:ARG:HH22	1.98	0.60
5:F:251:ILE:O	5:F:255:ALA:HB2	2.02	0.60
1:K:38:ASN:HD22	1:K:179:PHE:HE2	1.47	0.60
1:K:54:THR:O	1:K:54:THR:HG22	2.00	0.60
1:L:161:ARG:HH11	1:L:161:ARG:HG3	1.67	0.60
2:M:703:ILE:HG12	2:M:830:LYS:HG2	1.83	0.60
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.67	0.60
3:N:137:PRO:CD	3:N:453:ASP:HB3	2.32	0.60
3:N:162:ARG:CB	3:N:434:ARG:HH21	2.14	0.60
3:N:669:ASN:OD1	3:N:672:ALA:HB2	2.00	0.60
2:C:381:ALA:O	2:C:384:GLU:HB3	2.02	0.60
2:C:605:LYS:HE2	2:C:610:ARG:HH22	1.67	0.60
2:C:1058:ASP:OD1	2:C:1084:SER:OG	2.19	0.60
3:D:18:ILE:HG21	3:D:516:ALA:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:785:ILE:HD13	3:D:935:LYS:HA	1.83	0.60
3:D:1102:THR:O	3:D:1105:ILE:HG12	2.02	0.60
3:D:1372:VAL:HG22	3:D:1375:MET:HE1	1.82	0.60
1:K:124:ASN:N	1:K:125:PRO:HD3	2.17	0.60
1:K:214:ALA:O	1:K:217:ILE:N	2.35	0.60
2:M:184:MET:HE2	2:M:303:PHE:CZ	2.37	0.60
2:M:838:LYS:HG3	2:M:997:LEU:HD12	1.83	0.60
2:M:1118:LYS:O	2:M:1119:ARG:HB2	2.01	0.60
5:P:389:PHE:HB3	5:P:397:ILE:HD11	1.83	0.60
2:C:413:LEU:HD12	2:C:413:LEU:N	2.08	0.60
2:C:516:ARG:NH2	3:D:1068:LEU:CB	2.63	0.60
2:C:1034:GLU:O	2:C:1037:VAL:HB	2.02	0.60
3:D:633:VAL:C	3:D:635:PRO:HD3	2.27	0.60
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.17	0.60
5:F:300:ASP:CG	5:F:301:ALA:H	2.09	0.60
1:K:206:THR:CG2	1:K:209:GLU:H	2.09	0.60
2:M:678:PRO:O	3:N:943:THR:HB	2.01	0.60
2:M:795:GLY:O	2:M:796:GLU:HG2	2.02	0.60
3:N:951:ILE:HD11	3:N:1062:ARG:O	2.02	0.60
5:P:110:MET:HE2	5:P:111:GLU:CG	2.32	0.60
5:P:167:PRO:HB2	5:P:169:GLU:OE1	2.01	0.60
2:C:244:PRO:HG2	2:C:246:ASP:OD2	2.01	0.59
2:C:395:LYS:HE3	2:C:407:LYS:NZ	2.12	0.59
3:D:750:PRO:HG2	3:D:756:GLN:OE1	2.02	0.59
5:F:235:PHE:O	5:F:236:SER:C	2.44	0.59
1:K:13:VAL:HG12	1:K:14:ARG:H	1.64	0.59
1:L:223:THR:C	1:L:225:PHE:H	2.09	0.59
3:N:56:TYR:O	3:N:80:VAL:HG21	2.02	0.59
3:N:118:LEU:O	3:N:120:ALA:N	2.35	0.59
3:N:133:ILE:CG2	3:N:454:ALA:HB1	2.24	0.59
3:N:153:LEU:HD23	3:N:153:LEU:N	2.17	0.59
3:N:159:ARG:NH2	5:P:87:GLU:HG2	2.17	0.59
3:N:202:VAL:HG12	3:N:204:LEU:HG	1.83	0.59
3:N:935:LYS:HG2	3:N:939:PHE:CE1	2.37	0.59
5:P:302:LYS:HD2	5:P:303:ARG:N	2.17	0.59
1:A:184:THR:O	1:A:192:LEU:HB2	2.02	0.59
2:C:585:GLU:HG2	2:C:665:PHE:CE2	2.38	0.59
2:C:671:ASN:N	2:C:671:ASN:ND2	2.50	0.59
3:D:1085:ALA:HB3	6:D:1525:STD:O9	2.02	0.59
3:D:1443:THR:O	3:D:1447:LEU:HD22	2.01	0.59
4:E:40:LEU:HD22	4:E:45:ARG:NH1	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:26:GLU:HG2	1:K:27:PRO:N	2.17	0.59
1:K:112:ARG:HG3	1:K:113:ASP:OD2	2.02	0.59
1:K:132:LEU:HD12	1:K:132:LEU:N	2.17	0.59
1:L:176:ARG:HG2	1:L:200:TRP:CG	2.36	0.59
2:M:768:THR:HB	2:M:771:GLU:HB3	1.84	0.59
2:M:1014:SER:HA	2:M:1021:LEU:HD22	1.82	0.59
3:N:155:ASP:O	3:N:159:ARG:HB2	2.02	0.59
3:N:422:ALA:HB3	3:N:427:VAL:HG13	1.84	0.59
3:N:1197:ARG:HD2	3:N:1396:GLU:HB2	1.83	0.59
2:C:507:ARG:HB2	2:C:507:ARG:HH11	1.67	0.59
2:C:859:PRO:HB3	2:C:974:LEU:HD23	1.84	0.59
3:D:423:ASP:CG	5:F:175:HIS:CE1	2.81	0.59
3:D:1438:ALA:C	3:D:1440:PHE:H	2.09	0.59
5:F:370:LYS:O	5:F:374:GLY:HA3	2.03	0.59
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.84	0.59
3:N:169:TYR:HA	3:N:392:SER:HA	1.83	0.59
3:N:217:LYS:HG3	3:N:389:GLU:HB3	1.82	0.59
3:N:596:SER:C	3:N:598:ARG:H	2.09	0.59
3:N:1267:ARG:NH1	3:N:1271:LYS:HG3	2.17	0.59
5:P:120:THR:CG2	5:P:122:LEU:HD13	2.15	0.59
5:P:416:ARG:CG	5:P:419:ARG:HG3	2.33	0.59
2:C:73:LEU:HA	2:C:93:PRO:O	2.01	0.59
2:C:192:PRO:HB2	2:C:195:LEU:CB	2.32	0.59
2:C:456:ALA:HA	2:C:541:SER:HA	1.84	0.59
2:C:589:ARG:HA	2:C:596:TYR:OH	2.02	0.59
3:D:699:VAL:HG12	3:D:717:GLN:CA	2.32	0.59
2:M:54:ILE:O	2:M:54:ILE:HG23	2.02	0.59
2:M:63:GLY:HA3	2:M:103:LYS:HD2	1.83	0.59
2:M:424:GLY:O	2:M:428:ARG:HG3	2.01	0.59
2:M:666:LEU:CD2	2:M:668:LEU:HD11	2.32	0.59
3:N:97:THR:OG1	3:N:571:LYS:HE3	2.02	0.59
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.82	0.59
3:N:536:ALA:HA	5:P:315:VAL:O	2.03	0.59
3:N:715:ALA:HB3	3:N:764:LEU:CA	2.22	0.59
5:P:220:LEU:O	5:P:224:VAL:HG23	2.02	0.59
2:C:859:PRO:O	2:C:867:VAL:HG22	2.03	0.59
3:D:972:LEU:HG	3:D:976:GLN:OE1	2.02	0.59
3:D:1155:VAL:HG11	3:D:1177:ALA:HB1	1.83	0.59
5:F:102:LEU:O	5:F:106:VAL:HG23	2.02	0.59
5:F:174:LEU:O	5:F:178:ARG:HG2	2.03	0.59
2:M:73:LEU:HD11	2:M:118:ILE:HD11	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:574:LEU:O	3:N:578:VAL:HG23	2.02	0.59
3:N:584:ASN:OD1	3:N:590:PRO:HD2	2.03	0.59
3:N:1150:ALA:H	3:N:1188:VAL:HA	1.68	0.59
3:N:1283:ILE:HG22	3:N:1284:GLU:N	2.15	0.59
4:O:19:LEU:O	4:O:23:VAL:HG23	2.02	0.59
2:C:679:PHE:O	2:C:681:GLY:N	2.36	0.59
2:C:1034:GLU:HG3	2:C:1035:MET:N	2.17	0.59
3:D:9:ARG:NH1	3:D:11:ALA:HB2	2.18	0.59
3:D:247:GLU:H	3:D:248:PRO:CD	2.14	0.59
5:F:366:ALA:CB	5:F:367:MET:HE2	2.32	0.59
2:M:89:THR:O	2:M:91:GLN:HG3	2.02	0.59
2:M:876:VAL:O	2:M:877:PRO:C	2.44	0.59
3:N:123:LEU:O	3:N:126:VAL:HG12	2.03	0.59
3:N:711:LEU:CD1	3:N:778:LEU:HD23	2.32	0.59
3:N:1349:VAL:HG21	3:N:1369:GLU:HG2	1.85	0.59
1:A:79:ILE:HD12	1:A:80:LEU:N	2.17	0.59
1:A:124:ASN:N	1:A:125:PRO:HD3	2.17	0.59
1:A:153:ALA:HA	1:A:156:HIS:CE1	2.38	0.59
1:B:57:TYR:CE2	1:B:161:ARG:HG2	2.37	0.59
1:B:58:ILE:HG22	1:B:59:GLU:N	2.18	0.59
2:C:74:GLY:O	2:C:75:GLU:HG3	2.03	0.59
3:D:39:PRO:HB3	3:D:45:PHE:HB2	1.83	0.59
3:D:139:GLY:HA3	3:D:147:VAL:HG13	1.84	0.59
3:D:182:GLY:O	3:D:185:VAL:N	2.36	0.59
3:D:183:GLU:O	3:D:186:VAL:HG12	2.03	0.59
3:D:527:MET:C	3:D:527:MET:HE3	2.27	0.59
3:D:629:SER:OG	3:D:630:VAL:N	2.36	0.59
3:D:651:GLU:OE1	3:D:651:GLU:HA	2.03	0.59
3:D:1045:MET:HE2	3:D:1045:MET:N	2.17	0.59
2:M:405:ARG:HH21	2:M:409:ARG:NH2	2.01	0.59
2:M:1089:VAL:HG13	2:M:1099:VAL:HG23	1.81	0.59
3:N:14:SER:HG	3:N:511:TRP:CD1	2.21	0.59
3:N:50:PHE:CD2	3:N:522:PRO:HD3	2.38	0.59
3:N:421:LEU:HD11	3:N:437:VAL:CG2	2.32	0.59
3:N:781:PRO:CB	3:N:911:LEU:HD23	2.27	0.59
3:N:968:ASP:O	3:N:971:LEU:HB3	2.02	0.59
3:N:1107:VAL:O	3:N:1218:GLY:N	2.35	0.59
3:N:1450:ALA:HB1	3:N:1455:LYS:HB2	1.85	0.59
4:O:38:THR:HG21	4:O:41:GLU:OE1	2.02	0.59
1:A:18:ARG:HH12	1:A:88:ARG:HE	1.45	0.59
1:A:35:THR:O	1:A:39:PRO:HG2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:152:PRO:HD2	1:B:155:LYS:CD	2.29	0.59
1:B:189:ARG:HG3	1:B:189:ARG:NH1	2.16	0.59
2:C:139:GLN:OE1	2:C:414:GLY:HA3	2.02	0.59
2:C:607:ASP:HB3	2:C:610:ARG:H	1.67	0.59
2:C:923:GLU:OE1	2:C:927:GLY:HA3	2.02	0.59
3:D:371:ILE:HD12	3:D:371:ILE:O	2.02	0.59
3:D:601:ARG:NH1	3:D:601:ARG:HB2	2.17	0.59
3:D:949:ILE:O	3:D:949:ILE:HG22	2.03	0.59
3:D:1310:ARG:HG3	3:D:1327:ARG:CB	2.28	0.59
3:D:1379:VAL:O	3:D:1392:GLY:HA2	2.03	0.59
2:M:244:PRO:CG	2:M:245:GLY:H	2.16	0.59
2:M:549:PHE:HB3	2:M:552:HIS:CD2	2.38	0.59
3:N:1274:ILE:HD12	3:N:1274:ILE:O	2.03	0.59
3:N:1466:VAL:O	3:N:1467:ILE:C	2.45	0.59
2:C:66:LEU:HD13	2:C:100:LEU:HB3	1.85	0.59
2:C:149:THR:HG23	2:C:150:PRO:HD2	1.85	0.59
3:D:794:GLN:NE2	3:D:795:VAL:O	2.36	0.59
3:D:808:THR:HB	3:D:809:PRO:CD	2.33	0.59
2:M:428:ARG:CZ	6:M:1120:STD:H292	2.33	0.59
2:M:516:ARG:HD2	2:M:521:PRO:HA	1.84	0.59
3:N:187:LYS:HZ3	3:N:212:ARG:HA	1.68	0.59
3:N:1209:LEU:HD23	3:N:1211:MET:CE	2.33	0.59
5:P:126:LEU:O	5:P:130:VAL:HG23	2.02	0.59
2:C:470:PRO:HG3	2:C:485:TYR:CZ	2.37	0.59
2:C:1097:LEU:HG	3:D:101:HIS:HE1	1.67	0.59
3:D:218:LYS:HD3	3:D:371:ILE:N	2.18	0.59
3:D:646:LYS:O	3:D:648:MET:N	2.36	0.59
1:K:56:VAL:O	1:K:164:ALA:HB1	2.01	0.59
5:P:343:ASP:O	5:P:346:THR:HB	2.02	0.59
2:C:474:VAL:CG1	2:C:529:VAL:HG12	2.29	0.58
3:D:50:PHE:CD2	3:D:522:PRO:HD3	2.38	0.58
3:D:704:ARG:CG	3:D:705:ALA:N	2.66	0.58
3:D:1074:SER:O	3:D:1077:ALA:CB	2.51	0.58
3:D:1150:ALA:C	3:D:1151:ARG:HG2	2.28	0.58
3:D:1358:ALA:C	3:D:1359:GLN:HG2	2.28	0.58
4:E:45:ARG:NH2	4:E:72:ARG:NH2	2.51	0.58
1:L:32:PHE:O	1:L:33:GLY:C	2.44	0.58
2:M:798:GLY:H	2:M:827:VAL:CG1	2.16	0.58
3:N:225:LEU:HB2	3:N:227:LEU:HD21	1.84	0.58
1:B:62:LEU:HD13	1:B:63:HIS:CD2	2.38	0.58
1:B:173:PRO:HB3	1:B:205:VAL:HG22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:21:ILE:HD12	2:C:21:ILE:N	2.13	0.58
2:C:31:GLN:NE2	2:C:40:GLU:HB2	2.17	0.58
3:D:613:ARG:NH2	5:F:328:PHE:CE1	2.71	0.58
5:F:105:LYS:O	5:F:180:GLY:HA2	2.02	0.58
5:F:270:LYS:HD3	5:F:295:MET:HE1	1.85	0.58
5:F:418:LEU:HD12	5:F:418:LEU:N	2.18	0.58
2:M:585:GLU:O	2:M:587:VAL:N	2.36	0.58
2:M:841:ASN:HD21	2:M:843:HIS:CD2	2.20	0.58
3:N:11:ALA:HB1	3:N:507:ASN:OD1	2.03	0.58
3:N:134:VAL:HG23	3:N:134:VAL:O	2.03	0.58
3:N:138:LYS:O	3:N:452:ILE:HD12	2.03	0.58
3:N:811:GLU:O	3:N:815:ALA:HB3	2.02	0.58
3:N:1372:VAL:CA	3:N:1375:MET:HE2	2.26	0.58
5:P:364:ARG:HH11	5:P:364:ARG:HG3	1.68	0.58
1:B:138:LEU:HD23	1:B:138:LEU:C	2.28	0.58
2:C:80:GLN:O	2:C:83:CYS:N	2.35	0.58
2:C:141:HIS:HB2	2:C:418:LEU:HD12	1.84	0.58
2:C:446:GLY:O	2:C:449:ILE:HG13	2.02	0.58
3:D:23:TYR:CE2	3:D:89:ARG:NH1	2.71	0.58
3:D:462:GLN:HG3	3:D:513:ILE:HD13	1.85	0.58
3:D:701:LEU:N	3:D:701:LEU:HD12	2.17	0.58
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.38	0.58
3:D:1076:GLY:HA2	3:D:1079:LYS:HG2	1.85	0.58
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.34	0.58
2:M:620:LEU:HG	2:M:620:LEU:O	2.03	0.58
3:N:1489:GLN:HA	3:N:1489:GLN:NE2	2.19	0.58
2:C:657:ASP:OD1	2:C:661:SER:HB3	2.03	0.58
3:D:79:GLU:HG2	3:D:80:VAL:N	2.17	0.58
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.85	0.58
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.85	0.58
5:F:368:VAL:HG11	5:F:389:PHE:HD1	1.66	0.58
5:F:371:LEU:O	5:F:375:LEU:N	2.36	0.58
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.68	0.58
1:K:176:ARG:HH12	2:M:863:ASP:HB2	1.68	0.58
1:L:206:THR:HG23	1:L:208:LEU:H	1.69	0.58
2:M:435:TYR:O	2:M:437:ARG:HG2	2.04	0.58
2:M:605:LYS:HB2	2:M:610:ARG:NH1	2.16	0.58
2:M:881:ASN:HD22	2:M:881:ASN:H	1.52	0.58
3:N:387:LEU:HD21	5:P:97:GLU:HG2	1.86	0.58
3:N:1336:LEU:HD12	3:N:1340:GLY:O	2.02	0.58
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:524:VAL:HG22	2:C:525:SER:N	2.15	0.58
2:C:583:LEU:O	2:C:587:VAL:HG23	2.03	0.58
2:C:801:VAL:O	2:C:802:ARG:HB2	2.02	0.58
3:D:136:ASP:CB	3:D:137:PRO:CD	2.77	0.58
3:D:172:PRO:HB3	3:D:178:LEU:HB2	1.84	0.58
3:D:1103:HIS:O	3:D:1105:ILE:N	2.37	0.58
3:D:1363:LEU:HD12	3:D:1363:LEU:C	2.28	0.58
5:F:85:LEU:HA	5:F:88:ILE:HB	1.85	0.58
3:N:688:TRP:O	3:N:691:LEU:HB3	2.03	0.58
3:N:729:HIS:ND1	3:N:730:PRO:HD2	2.19	0.58
3:N:850:LEU:HA	3:N:853:VAL:CG2	2.34	0.58
3:N:1042:ARG:HH22	3:N:1045:MET:HE1	1.68	0.58
3:N:1372:VAL:O	3:N:1375:MET:HG3	2.03	0.58
1:A:186:LEU:HB2	1:A:192:LEU:HD13	1.85	0.58
2:C:71:TYR:H	2:C:71:TYR:HD2	1.51	0.58
2:C:140:ILE:HA	2:C:332:ARG:O	2.03	0.58
2:C:435:TYR:CE1	2:C:539:VAL:CG2	2.86	0.58
2:C:517:ARG:O	2:C:520:GLU:HB2	2.03	0.58
2:C:958:THR:HG23	2:C:961:GLU:H	1.69	0.58
3:D:150:ARG:O	3:D:150:ARG:HG2	2.03	0.58
3:D:646:LYS:HG3	3:D:647:ARG:H	1.68	0.58
3:D:1062:ARG:NH1	3:D:1062:ARG:CG	2.61	0.58
3:D:1110:ALA:O	3:D:1112:CYS:N	2.36	0.58
1:L:28:LEU:O	1:L:192:LEU:HD22	2.03	0.58
1:L:175:ARG:N	1:L:200:TRP:O	2.33	0.58
3:N:58:CYS:SG	3:N:78:VAL:HB	2.42	0.58
3:N:1104:GLU:O	3:N:1108:ARG:NH2	2.36	0.58
3:N:1395:LEU:C	3:N:1395:LEU:HD13	2.29	0.58
4:O:60:ALA:O	4:O:63:TRP:HB2	2.03	0.58
1:A:17:GLY:C	1:A:19:GLU:H	2.11	0.58
1:A:184:THR:O	1:A:192:LEU:HD12	2.03	0.58
1:B:173:PRO:CB	1:B:205:VAL:HG22	2.34	0.58
2:C:490:GLU:HG3	2:C:493:ARG:NH1	2.18	0.58
2:C:952:LEU:HD12	2:C:969:GLN:NE2	2.18	0.58
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.04	0.58
3:D:794:GLN:NE2	3:D:795:VAL:H	2.01	0.58
3:D:932:ASP:O	3:D:935:LYS:HB3	2.03	0.58
3:D:996:TRP:O	3:D:999:THR:N	2.37	0.58
3:D:1277:ILE:O	3:D:1321:ALA:HA	2.03	0.58
1:K:206:THR:HG22	1:K:209:GLU:CB	2.34	0.58
1:L:206:THR:HG23	1:L:208:LEU:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:195:LEU:HD21	2:M:238:LEU:HG	1.84	0.58
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.84	0.58
3:N:95:LEU:HD12	3:N:515:GLU:HA	1.86	0.58
3:N:196:VAL:HG13	3:N:202:VAL:HG13	1.84	0.58
3:N:1033:GLN:O	3:N:1037:GLN:HG3	2.04	0.58
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.85	0.58
3:N:1256:LEU:HB3	3:N:1257:PRO:HD3	1.85	0.58
2:C:230:ARG:HG3	2:C:233:GLU:HB3	1.85	0.58
3:D:32:ILE:HG23	3:D:38:LYS:O	2.04	0.58
3:D:86:ARG:O	3:D:522:PRO:HD2	2.04	0.58
3:D:469:ASP:O	3:D:472:ALA:HB3	2.04	0.58
5:F:81:VAL:O	5:F:85:LEU:HG	2.02	0.58
5:F:164:LYS:HB2	5:F:171:LYS:NZ	2.19	0.58
5:F:416:ARG:NH2	5:F:419:ARG:CD	2.65	0.58
2:M:545:ASN:OD1	2:M:905:ILE:HD13	2.04	0.58
2:M:610:ARG:HG3	2:M:610:ARG:NH1	2.19	0.58
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.86	0.58
3:N:93:ILE:HD13	3:N:548:ILE:HG12	1.84	0.58
3:N:709:HIS:NE2	3:N:711:LEU:HB2	2.19	0.58
4:O:86:GLN:HA	4:O:89:MET:HE2	1.84	0.58
2:C:129:ILE:HB	2:C:134:ARG:HD2	1.85	0.58
2:C:555:ALA:HB2	3:D:1070:TYR:CE1	2.38	0.58
2:C:721:ARG:HG3	2:C:721:ARG:HH11	1.67	0.58
2:C:737:LEU:O	2:C:738:ASP:C	2.47	0.58
3:D:77:GLY:O	3:D:78:VAL:CG2	2.50	0.58
3:D:89:ARG:O	3:D:521:PRO:HG3	2.04	0.58
3:D:1057:VAL:O	3:D:1057:VAL:HG12	2.04	0.58
3:D:1076:GLY:HA2	3:D:1079:LYS:CG	2.34	0.58
3:D:1345:GLU:O	3:D:1349:VAL:HG23	2.04	0.58
4:E:40:LEU:HD22	4:E:45:ARG:HH11	1.68	0.58
1:L:195:LEU:HD12	1:L:196:THR:N	2.19	0.58
2:M:167:LYS:C	2:M:167:LYS:HD3	2.29	0.58
2:M:597:ALA:C	2:M:652:GLY:HA2	2.29	0.58
2:M:711:GLU:HG2	2:M:822:VAL:HG12	1.85	0.58
2:M:760:SER:C	2:M:785:VAL:HG13	2.28	0.58
3:N:455:ARG:HG2	3:N:455:ARG:NH1	2.19	0.58
3:N:826:PRO:O	3:N:836:VAL:HG11	2.02	0.58
1:A:94:LEU:HD23	1:A:97:VAL:CG2	2.34	0.58
2:C:689:VAL:O	2:C:690:ILE:HD13	2.04	0.58
3:D:178:LEU:C	3:D:180:LYS:H	2.12	0.58
3:D:806:PHE:HD1	3:D:812:ALA:HB3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1084:THR:HG22	3:D:1087:ARG:NH2	2.18	0.58
3:D:1155:VAL:CG1	3:D:1183:ILE:HD11	2.33	0.58
3:D:1331:ASP:OD2	3:D:1332:PRO:HD2	2.04	0.58
4:E:61:GLU:OE1	4:E:62:THR:N	2.37	0.58
1:L:61:VAL:HG21	1:L:68:ILE:HD11	1.85	0.58
1:L:74:ASP:O	1:L:78:ILE:HG13	2.04	0.58
2:M:577:PRO:HG3	2:M:993:PHE:CD1	2.39	0.58
3:N:175:VAL:O	3:N:179:VAL:HG21	2.04	0.58
3:N:1282:ARG:HB3	3:N:1282:ARG:NH1	2.19	0.58
1:A:72:LYS:HZ1	2:C:644:VAL:HA	1.68	0.57
1:A:202:ASP:OD1	1:A:204:SER:HB2	2.04	0.57
2:C:676:ILE:O	3:D:948:THR:CG2	2.52	0.57
3:D:858:VAL:HG12	3:D:862:ASP:CB	2.34	0.57
1:K:176:ARG:NH2	2:M:865:THR:HB	2.19	0.57
1:L:226:SER:O	1:L:228:PRO:HD3	2.03	0.57
2:M:157:ARG:NH1	2:M:314:THR:HB	2.18	0.57
2:M:524:VAL:HG22	2:M:525:SER:H	1.67	0.57
3:N:76:CYS:HG	3:N:78:VAL:HG23	1.67	0.57
3:N:163:TYR:OH	3:N:394:LEU:HD23	2.03	0.57
3:N:400:VAL:C	3:N:402:PRO:HD3	2.29	0.57
3:N:701:LEU:CD2	3:N:763:MET:HE3	2.30	0.57
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.38	0.57
2:C:571:LEU:HD23	2:C:700:TYR:HA	1.85	0.57
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.39	0.57
3:D:55:ASP:CA	3:D:82:LYS:HG2	2.32	0.57
3:D:1015:TYR:O	3:D:1017:PHE:N	2.37	0.57
3:D:1043:GLY:HA2	3:D:1057:VAL:H	1.69	0.57
3:D:1112:CYS:HB3	3:D:1195:GLN:OE1	2.04	0.57
3:D:1432:LYS:NZ	3:D:1460:ILE:HB	2.18	0.57
4:E:38:THR:HB	4:E:63:TRP:HZ3	1.69	0.57
4:E:51:LEU:HD12	4:E:52:GLU:N	2.19	0.57
1:L:86:VAL:CG1	1:L:124:ASN:HD22	2.15	0.57
2:M:11:GLU:O	2:M:13:ILE:N	2.37	0.57
2:M:129:ILE:N	2:M:129:ILE:HD12	2.19	0.57
2:M:172:ILE:H	2:M:172:ILE:CD1	2.05	0.57
3:N:632:VAL:O	3:N:727:GLN:HA	2.04	0.57
1:A:1:MET:CB	1:A:6:LEU:HB2	2.34	0.57
2:C:137:VAL:O	2:C:391:LEU:HD11	2.04	0.57
2:C:358:ARG:HH22	2:C:374:ASN:CG	2.12	0.57
2:C:976:ASP:O	2:C:978:ARG:N	2.37	0.57
3:D:388:HIS:NE2	5:F:94:LEU:HG	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:970:LYS:HA	3:D:973:GLN:NE2	2.18	0.57
3:D:1357:ARG:C	3:D:1359:GLN:H	2.13	0.57
3:D:1494:ALA:HA	3:D:1497:GLU:HG2	1.87	0.57
2:M:534:VAL:H	2:M:538:GLN:NE2	2.03	0.57
2:M:1005:MET:HE1	3:N:645:PRO:CB	2.33	0.57
2:M:1050:GLN:O	2:M:1053:LEU:N	2.35	0.57
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.04	0.57
3:N:523:ASP:O	3:N:526:PRO:HG3	2.04	0.57
1:A:43:ILE:HD11	1:B:35:THR:CG2	2.25	0.57
3:D:15:PRO:O	3:D:19:ARG:HG3	2.04	0.57
3:D:34:TYR:HE2	5:F:260:ILE:HG13	1.70	0.57
2:M:86:LYS:O	2:M:88:LEU:N	2.33	0.57
2:M:350:ARG:HG2	2:M:350:ARG:NH1	2.19	0.57
2:M:547:ILE:O	2:M:548:PRO:C	2.47	0.57
2:M:625:LEU:O	2:M:627:ARG:N	2.36	0.57
2:M:838:LYS:CG	2:M:997:LEU:HB2	2.34	0.57
3:N:631:ILE:HD13	3:N:745:MET:HG3	1.87	0.57
3:N:660:LYS:HA	3:N:663:GLU:OE2	2.04	0.57
3:N:879:ARG:HB3	3:N:902:LEU:HB2	1.86	0.57
3:N:989:TYR:CE2	3:N:1243:THR:HG21	2.38	0.57
3:N:1144:LEU:HD11	3:N:1186:VAL:HG21	1.87	0.57
3:N:1229:ILE:HD11	3:N:1368:ILE:HA	1.86	0.57
5:P:361:LEU:CD2	5:P:408:LEU:HB2	2.24	0.57
1:A:67:THR:HG21	2:C:609:ASN:ND2	2.20	0.57
2:C:198:ARG:O	2:C:198:ARG:HD3	2.04	0.57
3:D:1064:GLY:O	3:D:1065:LEU:C	2.47	0.57
2:M:368:THR:HB	2:M:369:PRO:CD	2.33	0.57
2:M:605:LYS:O	2:M:611:ILE:HA	2.04	0.57
2:M:1030:GLN:HB2	3:N:626:SER:HB3	1.85	0.57
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.27	0.57
3:N:227:LEU:H	3:N:227:LEU:HD13	1.69	0.57
3:N:810:GLU:O	3:N:813:LEU:HG	2.04	0.57
5:P:88:ILE:HG21	5:P:193:ARG:HH11	1.68	0.57
5:P:110:MET:HE2	5:P:111:GLU:HG3	1.85	0.57
2:C:564:MET:CE	2:C:846:LYS:HE2	2.34	0.57
3:D:1109:GLU:HG2	3:D:1201:CYS:CB	2.33	0.57
3:D:1232:PRO:O	3:D:1233:GLY:C	2.47	0.57
1:K:63:HIS:HD2	1:K:65:PHE:H	1.50	0.57
1:L:176:ARG:HH22	3:N:884:ARG:HD3	1.69	0.57
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.40	0.57
3:N:1385:GLY:HA2	3:N:1413:THR:HG21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1401:GLU:O	3:N:1405:GLU:HG2	2.05	0.57
4:O:88:GLU:O	4:O:92:ILE:HG12	2.04	0.57
5:P:151:LEU:HB2	5:P:155:THR:CB	2.34	0.57
1:A:23:PHE:O	1:A:196:THR:HA	2.05	0.57
1:A:44:LEU:O	1:A:174:VAL:HG21	2.05	0.57
2:C:265:ARG:CG	2:C:288:ARG:HG3	2.28	0.57
2:C:471:TYR:HE2	2:C:496:ILE:HG21	1.66	0.57
2:C:858:MET:HB2	2:C:859:PRO:HD2	1.87	0.57
2:C:1070:ILE:O	2:C:1073:GLY:N	2.37	0.57
3:D:220:ARG:HA	3:D:367:ILE:HG22	1.86	0.57
3:D:698:LYS:HA	3:D:756:GLN:NE2	2.20	0.57
3:D:765:SER:C	3:D:767:HIS:H	2.12	0.57
3:D:792:ILE:HG21	3:D:941:PHE:CD1	2.40	0.57
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.87	0.57
5:F:94:LEU:HB2	5:F:98:GLU:OE1	2.04	0.57
5:F:358:LEU:HD21	5:F:370:LYS:NZ	2.19	0.57
1:K:39:PRO:HA	1:L:35:THR:HG23	1.86	0.57
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.33	0.57
1:L:2:LEU:CD1	1:L:3:ASP:H	2.17	0.57
2:M:73:LEU:HD23	2:M:94:LEU:HA	1.86	0.57
2:M:77:PRO:HD3	2:M:93:PRO:CD	2.32	0.57
2:M:237:ARG:O	2:M:240:THR:HB	2.03	0.57
2:M:266:ARG:CG	2:M:273:GLY:HA3	2.34	0.57
2:M:462:ASP:OD2	2:M:466:PHE:HB2	2.04	0.57
2:M:641:PRO:O	2:M:642:ARG:HD3	2.04	0.57
3:N:116:LEU:CB	3:N:118:LEU:HD13	2.34	0.57
3:N:591:VAL:CA	3:N:600:LEU:HD21	2.33	0.57
3:N:1489:GLN:HA	3:N:1489:GLN:HE21	1.70	0.57
4:O:36:LYS:HE2	4:O:36:LYS:HA	1.86	0.57
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.85	0.57
5:P:243:ILE:O	5:P:247:ILE:HG13	2.04	0.57
5:P:369:LEU:HB3	5:P:373:LYS:HD3	1.86	0.57
1:A:227:ASN:HD22	1:A:227:ASN:N	2.02	0.57
2:C:15:LEU:HD22	2:C:583:LEU:CD2	2.35	0.57
2:C:110:GLU:CG	2:C:369:PRO:HG3	2.30	0.57
2:C:160:ALA:HB3	2:C:174:LEU:HB2	1.87	0.57
2:C:279:GLU:OE2	2:C:489:THR:HG21	2.05	0.57
2:C:309:TYR:O	2:C:313:LEU:N	2.37	0.57
2:C:758:ARG:HG2	2:C:759:THR:N	2.20	0.57
2:C:895:TYR:HD2	2:C:896:PHE:CD1	2.23	0.57
2:C:1045:ALA:HA	3:D:758:GLU:OE2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:216:VAL:HG12	3:D:217:LYS:H	1.68	0.57
5:F:94:LEU:HD13	5:F:94:LEU:C	2.30	0.57
1:K:122:ILE:O	1:K:125:PRO:HD3	2.05	0.57
1:L:176:ARG:H	1:L:200:TRP:HB3	1.70	0.57
2:M:91:GLN:HE21	2:M:119:PRO:HG3	1.69	0.57
2:M:1085:PHE:O	2:M:1088:LEU:N	2.37	0.57
3:N:539:ASP:OD2	3:N:598:ARG:NH2	2.37	0.57
3:N:540:LEU:HA	3:N:543:LEU:CD1	2.35	0.57
3:N:604:THR:C	3:N:606:ILE:H	2.12	0.57
3:N:679:ARG:HB2	3:N:682:ASP:OD1	2.05	0.57
3:N:1114:THR:HB	3:N:1195:GLN:HB2	1.86	0.57
3:N:1145:TYR:CD2	3:N:1168:MET:HE3	2.39	0.57
5:P:273:ARG:O	5:P:276:ARG:HB2	2.04	0.57
1:B:107:LYS:O	1:B:132:LEU:HB2	2.05	0.57
2:C:129:ILE:O	2:C:130:ASN:OD1	2.22	0.57
2:C:291:ALA:O	2:C:292:ARG:HB2	2.03	0.57
2:C:470:PRO:HG3	2:C:485:TYR:CE2	2.40	0.57
2:C:606:VAL:HG11	2:C:643:VAL:O	2.05	0.57
3:D:10:ILE:HG22	3:D:1451:ALA:HA	1.85	0.57
3:D:960:LYS:HE3	3:D:1040:GLY:O	2.03	0.57
3:D:1264:GLU:O	3:D:1266:ARG:HD2	2.04	0.57
3:D:1432:LYS:HZ3	3:D:1460:ILE:HB	1.69	0.57
1:L:176:ARG:HH22	3:N:884:ARG:NE	2.03	0.57
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.86	0.57
2:M:1052:MET:HE3	3:N:623:VAL:CG2	2.33	0.57
3:N:44:LEU:CB	3:N:525:ARG:HH22	2.12	0.57
3:N:828:LYS:HD2	3:N:862:ASP:OD2	2.04	0.57
5:P:174:LEU:O	5:P:177:ALA:HB3	2.04	0.57
1:A:31:GLY:HA2	1:A:193:ASP:OD2	2.05	0.57
1:A:93:SER:C	1:A:94:LEU:HD12	2.29	0.57
1:A:144:VAL:HG12	1:A:145:ASP:H	1.67	0.57
1:B:167:VAL:HG12	1:B:168:ASP:N	2.20	0.57
3:D:179:VAL:CG1	3:D:389:GLU:HG3	2.33	0.57
3:D:237:LYS:CB	3:D:238:PRO:HD3	2.35	0.57
3:D:432:TYR:HB3	3:D:448:GLU:HG2	1.86	0.57
3:D:659:LYS:C	3:D:659:LYS:HD3	2.30	0.57
5:F:138:SER:OG	5:F:140:ARG:HG2	2.05	0.57
2:M:46:ALA:O	2:M:50:GLU:HB2	2.05	0.57
2:M:211:LEU:HD11	2:M:308:ARG:HB2	1.86	0.57
3:N:104:PHE:HD2	3:N:104:PHE:N	2.03	0.57
3:N:714:GLN:HE22	3:N:732:VAL:CG1	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:892:ASP:OD2	3:N:895:VAL:HG21	2.05	0.57
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.27	0.57
3:N:1412:LYS:HG3	3:N:1412:LYS:O	2.04	0.57
5:P:79:ASP:HB3	5:P:80:PRO:HD3	1.87	0.57
5:P:232:ARG:O	5:P:233:PHE:C	2.48	0.57
1:B:75:VAL:O	1:B:79:ILE:HG12	2.05	0.56
2:C:713:ARG:HB3	2:C:713:ARG:HH11	1.68	0.56
2:C:855:VAL:HG13	2:C:856:GLU:N	2.20	0.56
3:D:109:PRO:O	3:D:111:LYS:N	2.38	0.56
3:D:1086:LEU:CD2	6:D:1525:STD:H113	2.33	0.56
3:D:1096:ARG:NH1	3:D:1096:ARG:HB2	2.20	0.56
3:D:1147:ARG:O	3:D:1166:LEU:N	2.32	0.56
5:F:278:LEU:HB3	5:F:286:PRO:HG3	1.87	0.56
1:K:13:VAL:CG1	1:K:14:ARG:N	2.68	0.56
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.86	0.56
2:M:135:VAL:HB	2:M:406:HIS:CE1	2.39	0.56
2:M:428:ARG:HE	2:M:449:ILE:HG23	1.70	0.56
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.68	0.56
2:M:715:THR:HG22	2:M:717:LEU:H	1.68	0.56
3:N:39:PRO:HG2	3:N:47:GLU:HG3	1.87	0.56
3:N:76:CYS:SG	3:N:76:CYS:O	2.62	0.56
3:N:104:PHE:N	3:N:104:PHE:CD2	2.72	0.56
3:N:177:ALA:O	3:N:199:LEU:HD13	2.05	0.56
3:N:568:ARG:O	3:N:570:GLU:N	2.38	0.56
3:N:975:GLU:CD	3:N:988:ARG:HH12	2.12	0.56
3:N:1043:GLY:O	3:N:1056:PRO:HA	2.05	0.56
3:N:1108:ARG:NH2	3:N:1198:TYR:O	2.37	0.56
4:O:26:ARG:HH22	4:O:39:VAL:HG13	1.68	0.56
5:P:271:LEU:O	5:P:275:ALA:HB2	2.05	0.56
5:P:287:THR:CG2	5:P:290:GLU:HB2	2.35	0.56
1:A:13:VAL:HG12	1:A:14:ARG:H	1.70	0.56
1:A:142:VAL:HG23	1:A:142:VAL:O	2.05	0.56
2:C:29:ALA:C	2:C:44:ILE:HD13	2.29	0.56
2:C:813:VAL:CG2	2:C:815:LEU:HD13	2.35	0.56
2:C:1011:GLY:O	2:C:1013:TYR:CE2	2.58	0.56
3:D:475:LYS:HA	3:D:478:LEU:HD12	1.87	0.56
3:D:624:ASP:HB3	3:D:625:TYR:CD1	2.40	0.56
3:D:992:ILE:O	3:D:993:LEU:C	2.47	0.56
5:F:234:LYS:HD2	5:F:236:SER:H	1.69	0.56
1:L:216:GLU:OE2	1:L:219:ARG:NH2	2.38	0.56
2:M:878:SER:HB3	3:N:1029:ARG:NE	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:590:PRO:O	3:N:600:LEU:HG	2.05	0.56
3:N:1433:SER:HB2	3:N:1457:ASP:CG	2.30	0.56
5:P:196:VAL:HG13	5:P:213:ILE:CD1	2.35	0.56
2:C:51:THR:HB	2:C:348:LEU:HD23	1.86	0.56
2:C:452:ILE:HD12	2:C:452:ILE:N	2.20	0.56
2:C:876:VAL:N	2:C:877:PRO:HD2	2.19	0.56
2:C:923:GLU:O	2:C:924:VAL:C	2.48	0.56
2:C:1031:ARG:HD3	3:D:619:LEU:HD21	1.87	0.56
3:D:131:LYS:HD3	5:F:83:GLN:NE2	2.21	0.56
3:D:160:GLU:HG2	3:D:165:LYS:HD3	1.88	0.56
3:D:218:LYS:HD3	3:D:371:ILE:H	1.68	0.56
3:D:1451:ALA:O	3:D:1452:ILE:C	2.47	0.56
4:E:54:LEU:CB	4:E:58:PRO:HG2	2.36	0.56
5:F:85:LEU:O	5:F:89:GLY:N	2.33	0.56
1:K:206:THR:HG22	1:K:209:GLU:HB2	1.87	0.56
2:M:52:PHE:O	2:M:54:ILE:N	2.38	0.56
2:M:288:ARG:NE	2:M:288:ARG:CA	2.69	0.56
2:M:1038:TRP:HA	2:M:1041:GLU:OE1	2.04	0.56
3:N:368:VAL:CG2	3:N:369:ALA:H	2.08	0.56
3:N:777:PRO:HD2	3:N:912:LYS:HG2	1.87	0.56
3:N:840:LYS:HD2	3:N:841:TYR:CZ	2.40	0.56
4:O:40:LEU:HD13	4:O:45:ARG:HD2	1.87	0.56
2:C:21:ILE:H	2:C:21:ILE:CD1	2.10	0.56
2:C:368:THR:HB	2:C:369:PRO:CD	2.30	0.56
2:C:525:SER:OG	2:C:528:GLU:HG3	2.04	0.56
2:C:690:ILE:HG22	2:C:691:SER:N	2.19	0.56
2:C:715:THR:HG22	2:C:716:LYS:N	2.20	0.56
3:D:493:ARG:NH1	3:D:493:ARG:HB2	2.19	0.56
3:D:675:ARG:NH2	5:F:420:ASP:HB3	2.21	0.56
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.54	0.56
4:E:26:ARG:NE	4:E:30:LEU:HD13	2.21	0.56
5:F:164:LYS:CB	5:F:171:LYS:HZ1	2.18	0.56
1:L:101:LEU:HB3	1:L:140:MET:SD	2.45	0.56
2:M:13:ILE:HG13	2:M:13:ILE:O	2.04	0.56
2:M:580:MET:HB3	2:M:584:GLU:OE1	2.05	0.56
2:M:917:LEU:HA	2:M:920:GLN:HG3	1.88	0.56
2:M:1045:ALA:HB2	3:N:763:MET:SD	2.45	0.56
3:N:1217:ILE:HD12	3:N:1480:PHE:CE2	2.41	0.56
1:A:109:VAL:HG21	1:A:138:LEU:HD23	1.86	0.56
1:A:226:SER:O	1:A:228:PRO:HD3	2.05	0.56
2:C:19:THR:HG22	2:C:19:THR:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:516:ARG:HH11	2:C:521:PRO:CA	2.18	0.56
2:C:657:ASP:HB3	2:C:661:SER:HB2	1.87	0.56
3:D:232:GLU:HG3	3:D:232:GLU:O	2.05	0.56
3:D:537:THR:HG23	3:D:537:THR:O	2.04	0.56
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.70	0.56
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.88	0.56
3:D:994:GLN:NE2	3:D:998:GLU:OE2	2.38	0.56
3:D:1503:VAL:O	3:D:1505:ALA:N	2.39	0.56
2:M:443:THR:HB	2:M:444:PRO:HD2	1.87	0.56
2:M:939:ARG:NH1	2:M:981:GLU:HG2	2.21	0.56
3:N:82:LYS:HZ2	5:P:339:PRO:HG2	1.70	0.56
3:N:1012:GLU:HG3	3:N:1021:TYR:OH	2.04	0.56
1:B:58:ILE:HG21	1:B:68:ILE:CD1	2.36	0.56
2:C:45:GLN:NE2	2:C:68:PHE:HE2	2.02	0.56
2:C:588:VAL:CG2	2:C:589:ARG:H	2.18	0.56
2:C:636:ALA:HB2	2:C:705:ILE:HD11	1.88	0.56
2:C:1033:GLY:O	2:C:1036:GLU:HB2	2.06	0.56
2:C:1043:TYR:CE1	3:D:710:ARG:O	2.59	0.56
3:D:806:PHE:CE1	3:D:809:PRO:O	2.58	0.56
2:M:44:ILE:N	2:M:44:ILE:HD12	2.20	0.56
2:M:300:ASP:C	2:M:302:VAL:N	2.64	0.56
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.35	0.56
2:M:750:LYS:HB2	3:N:681:ARG:NH2	2.21	0.56
2:M:755:LEU:O	2:M:756:VAL:CG2	2.54	0.56
2:M:881:ASN:HD22	2:M:881:ASN:N	2.04	0.56
2:M:978:ARG:HH11	2:M:978:ARG:HG3	1.70	0.56
3:N:844:ALA:O	3:N:867:ARG:HB3	2.06	0.56
3:N:1042:ARG:NH1	3:N:1045:MET:SD	2.70	0.56
3:N:1148:VAL:O	3:N:1188:VAL:HG23	2.04	0.56
3:N:1493:LYS:O	3:N:1497:GLU:HG2	2.04	0.56
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.87	0.56
1:B:54:THR:CG2	1:B:143:ARG:HG2	2.36	0.56
1:B:123:MET:C	1:B:125:PRO:HD3	2.31	0.56
2:C:211:LEU:HD13	2:C:304:LEU:HD11	1.88	0.56
2:C:276:LYS:H	2:C:276:LYS:HD2	1.71	0.56
2:C:838:LYS:O	2:C:839:LEU:HD23	2.05	0.56
3:D:78:VAL:C	3:D:79:GLU:O	2.42	0.56
3:D:592:THR:OG1	3:D:600:LEU:HD21	2.05	0.56
3:D:1092:GLY:O	3:D:1093:TYR:C	2.49	0.56
3:D:1237:THR:HG22	3:D:1238:MET:N	2.21	0.56
5:F:156:VAL:HG23	5:F:157:GLU:H	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:97:ARG:HH21	2:M:109:LYS:NZ	2.03	0.56
2:M:878:SER:HB3	3:N:1029:ARG:CD	2.35	0.56
3:N:877:PRO:O	3:N:878:GLY:C	2.49	0.56
3:N:1170:ASP:C	3:N:1172:HIS:H	2.13	0.56
3:N:1295:GLU:HB3	3:N:1300:SER:HA	1.86	0.56
5:P:398:ARG:HD3	5:P:399:GLN:HG2	1.85	0.56
2:C:615:TYR:HB3	2:C:617:ASP:OD2	2.06	0.56
3:D:85:VAL:HB	3:D:89:ARG:NE	2.21	0.56
3:D:571:LYS:HB2	3:D:571:LYS:HZ3	1.71	0.56
3:D:984:THR:HG22	3:D:987:GLU:CD	2.30	0.56
1:L:13:VAL:HG13	1:L:22:GLU:O	2.05	0.56
2:M:194:VAL:HG21	2:M:221:LEU:HA	1.88	0.56
2:M:371:LYS:O	2:M:372:LEU:HD23	2.05	0.56
2:M:549:PHE:HA	2:M:551:GLU:OE2	2.05	0.56
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.36	0.56
2:M:974:LEU:HB3	2:M:983:ILE:HG13	1.87	0.56
3:N:183:GLU:OE2	3:N:216:VAL:HG13	2.06	0.56
3:N:1267:ARG:HA	3:N:1331:ASP:OD2	2.06	0.56
4:O:61:GLU:O	4:O:65:MET:HE3	2.06	0.56
5:P:134:LYS:O	5:P:178:ARG:HD3	2.04	0.56
5:P:287:THR:HG23	5:P:290:GLU:H	1.71	0.56
1:A:44:LEU:HA	1:A:48:ILE:HD11	1.86	0.56
1:B:62:LEU:H	1:B:62:LEU:HD12	1.71	0.56
2:C:676:ILE:HG23	2:C:988:VAL:HG13	1.88	0.56
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.45	0.56
3:D:173:PRO:HG2	3:D:200:ASP:HB3	1.88	0.56
3:D:1273:VAL:CG2	3:D:1305:LEU:HD21	2.36	0.56
4:E:9:LEU:HB3	4:E:19:LEU:CD2	2.34	0.56
5:F:84:TYR:HB3	5:F:88:ILE:CD1	2.35	0.56
5:F:345:ALA:O	5:F:348:SER:HB3	2.05	0.56
2:M:77:PRO:CD	2:M:93:PRO:HD3	2.32	0.56
2:M:1055:LEU:HD21	2:M:1079:PRO:HG3	1.87	0.56
2:M:1071:ILE:O	3:N:659:LYS:HD3	2.05	0.56
2:M:1105:LYS:O	2:M:1107:ASN:N	2.39	0.56
3:N:32:ILE:HG22	3:N:33:ASN:N	2.21	0.56
3:N:1295:GLU:CD	3:N:1300:SER:OG	2.49	0.56
2:C:199:VAL:O	2:C:199:VAL:HG12	2.06	0.56
2:C:816:LYS:HE2	2:C:819:VAL:HG21	1.87	0.56
2:C:881:ASN:H	2:C:881:ASN:ND2	2.04	0.56
3:D:63:TYR:O	3:D:64:LYS:HG3	2.05	0.56
3:D:711:LEU:HG	3:D:778:LEU:HD23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:820:GLU:HG3	3:D:836:VAL:CG2	2.35	0.56
3:D:1020:LEU:HA	3:D:1023:MET:CE	2.35	0.56
3:D:1335:LEU:O	3:D:1335:LEU:HD23	2.06	0.56
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.21	0.56
5:F:184:ARG:O	5:F:188:ILE:HG13	2.06	0.56
1:K:23:PHE:HB2	1:K:197:LEU:HD23	1.87	0.56
2:M:256:TYR:CZ	2:M:293:PHE:HB2	2.41	0.56
2:M:470:PRO:O	2:M:471:TYR:CG	2.59	0.56
2:M:583:LEU:O	2:M:584:GLU:C	2.49	0.56
2:M:666:LEU:HG	2:M:668:LEU:HD11	1.86	0.56
2:M:1036:GLU:HG3	3:N:703:ASN:OD1	2.06	0.56
3:N:984:THR:HG22	3:N:987:GLU:CB	2.26	0.56
3:N:1043:GLY:C	3:N:1057:VAL:H	2.14	0.56
3:N:1048:PRO:O	3:N:1049:SER:O	2.24	0.56
1:A:64:GLU:O	1:A:76:VAL:HG22	2.06	0.55
1:A:94:LEU:C	1:A:96:THR:N	2.62	0.55
1:A:99:LEU:N	1:A:99:LEU:CD1	2.68	0.55
1:A:100:LEU:HB2	1:A:115:LEU:HD11	1.88	0.55
3:D:47:GLU:HA	3:D:51:GLY:O	2.05	0.55
3:D:57:GLU:HG3	3:D:64:LYS:HG2	1.88	0.55
3:D:662:GLU:OE1	3:D:662:GLU:C	2.49	0.55
1:K:39:PRO:HG3	1:L:39:PRO:HG3	1.88	0.55
2:M:89:THR:HG23	2:M:129:ILE:HA	1.87	0.55
2:M:1003:ASP:O	2:M:1005:MET:N	2.39	0.55
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.06	0.55
3:N:162:ARG:HB2	3:N:434:ARG:HH21	1.71	0.55
3:N:820:GLU:HG2	3:N:825:ALA:O	2.05	0.55
1:A:1:MET:O	1:A:6:LEU:HD22	2.05	0.55
1:A:97:VAL:HG12	1:A:98:THR:N	2.21	0.55
1:B:206:THR:N	1:B:209:GLU:OE1	2.34	0.55
2:C:233:GLU:OE1	2:C:237:ARG:HB2	2.07	0.55
2:C:949:LYS:HE2	3:D:828:LYS:NZ	2.22	0.55
2:C:1003:ASP:O	2:C:1005:MET:N	2.39	0.55
2:C:1096:ALA:O	3:D:13:ALA:HB3	2.06	0.55
3:D:8:VAL:HG12	3:D:1434:TRP:HH2	1.71	0.55
3:D:374:GLU:CG	3:D:386:HIS:HA	2.35	0.55
3:D:605:ASP:OD1	3:D:605:ASP:N	2.37	0.55
3:D:651:GLU:OE1	3:D:654:LYS:HD2	2.05	0.55
3:D:659:LYS:HD3	3:D:659:LYS:O	2.05	0.55
3:D:902:LEU:H	3:D:902:LEU:CD2	2.14	0.55
3:D:1146:GLY:HA3	3:D:1207:TYR:CB	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:57:TYR:O	1:L:140:MET:HB2	2.06	0.55
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.21	0.55
2:M:114:PHE:CE1	5:P:283:GLY:HA3	2.42	0.55
2:M:146:VAL:HG12	2:M:162:ILE:HG12	1.87	0.55
2:M:428:ARG:HE	2:M:449:ILE:CG2	2.19	0.55
2:M:572:ILE:HD11	2:M:701:THR:HB	1.86	0.55
2:M:876:VAL:HB	2:M:877:PRO:CD	2.34	0.55
2:M:922:PHE:CE2	2:M:964:LYS:HB2	2.40	0.55
2:M:963:LEU:O	2:M:967:PHE:HB2	2.06	0.55
3:N:186:VAL:HG13	3:N:187:LYS:N	2.20	0.55
3:N:645:PRO:O	3:N:648:MET:N	2.39	0.55
3:N:1278:ASP:HB3	3:N:1321:ALA:N	2.22	0.55
5:P:184:ARG:HH21	5:P:221:ILE:CG2	2.19	0.55
1:A:67:THR:HG22	2:C:627:ARG:CZ	2.37	0.55
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	2.06	0.55
3:D:569:ASN:C	3:D:569:ASN:HD22	2.13	0.55
3:D:866:VAL:HG12	3:D:867:ARG:N	2.19	0.55
3:D:1191:PRO:HG3	3:D:1204:CYS:O	2.06	0.55
5:F:164:LYS:HA	5:F:171:LYS:NZ	2.21	0.55
1:K:79:ILE:O	1:K:83:LYS:HG3	2.07	0.55
1:K:213:GLN:O	1:K:214:ALA:C	2.49	0.55
2:M:170:PRO:HB3	2:M:172:ILE:HD11	1.87	0.55
2:M:745:ILE:HD13	2:M:745:ILE:H	1.71	0.55
3:N:209:ARG:HB3	3:N:396:VAL:O	2.07	0.55
3:N:426:LYS:HD3	5:P:134:LYS:HA	1.88	0.55
3:N:669:ASN:HD21	3:N:671:LYS:HB2	1.71	0.55
3:N:1170:ASP:C	3:N:1172:HIS:N	2.63	0.55
3:N:1307:LYS:O	3:N:1309:ALA:N	2.37	0.55
1:A:41:ARG:HG3	1:A:177:VAL:HB	1.88	0.55
1:A:99:LEU:HB2	1:A:142:VAL:HG23	1.87	0.55
2:C:516:ARG:HH11	2:C:521:PRO:HB3	1.68	0.55
2:C:873:PRO:C	2:C:875:GLY:H	2.13	0.55
2:C:1024:LYS:NZ	2:C:1024:LYS:HB2	2.21	0.55
3:D:10:ILE:HG13	3:D:1434:TRP:CH2	2.41	0.55
3:D:527:MET:HE3	3:D:528:VAL:N	2.21	0.55
3:D:670:VAL:O	3:D:671:LYS:C	2.50	0.55
3:D:1062:ARG:HH11	3:D:1062:ARG:CG	1.97	0.55
2:M:265:ARG:H	2:M:289:THR:HG21	1.72	0.55
2:M:1052:MET:HE3	3:N:623:VAL:HG11	1.88	0.55
3:N:214:GLU:HG2	3:N:215:TYR:CE1	2.41	0.55
3:N:675:ARG:HA	3:N:678:GLU:OE2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1115:THR:HG21	3:N:1151:ARG:HH21	1.71	0.55
5:P:134:LYS:HG3	5:P:160:ASP:OD2	2.05	0.55
1:B:36:LEU:C	1:B:39:PRO:HD2	2.31	0.55
2:C:167:LYS:O	2:C:167:LYS:HD3	2.06	0.55
2:C:572:ILE:HD11	2:C:701:THR:HB	1.89	0.55
2:C:607:ASP:O	2:C:608:GLY:C	2.47	0.55
2:C:683:ASN:ND2	2:C:872:ASN:HB2	2.22	0.55
2:C:715:THR:HG22	2:C:716:LYS:H	1.72	0.55
3:D:122:GLU:O	3:D:122:GLU:CD	2.49	0.55
3:D:992:ILE:O	3:D:995:LEU:HB3	2.06	0.55
3:D:1175:ILE:O	3:D:1179:GLU:HG2	2.06	0.55
3:D:1264:GLU:HG2	3:D:1266:ARG:NE	2.21	0.55
3:D:1314:LYS:HD3	3:D:1314:LYS:N	2.22	0.55
1:L:42:ARG:HG2	1:L:42:ARG:HH11	1.71	0.55
2:M:548:PRO:CG	2:M:842:ARG:NH2	2.68	0.55
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.30	0.55
3:N:137:PRO:HG2	3:N:453:ASP:CG	2.32	0.55
3:N:560:GLN:HA	3:N:560:GLN:NE2	2.21	0.55
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.89	0.55
3:N:786:ILE:O	3:N:787:LEU:C	2.48	0.55
2:C:421:GLU:OE1	2:C:421:GLU:O	2.25	0.55
2:C:1070:ILE:HD11	3:D:751:LEU:HD22	1.88	0.55
3:D:129:PHE:H	3:D:129:PHE:HD1	1.54	0.55
3:D:138:LYS:H	3:D:138:LYS:HE3	1.72	0.55
3:D:400:VAL:HG13	3:D:442:ASN:O	2.05	0.55
3:D:401:TYR:N	3:D:402:PRO:HD3	2.21	0.55
3:D:455:ARG:CA	3:D:456:MET:HE2	2.36	0.55
1:K:38:ASN:OD1	2:M:979:THR:C	2.48	0.55
1:L:143:ARG:HD3	1:L:158:ILE:HG21	1.88	0.55
2:M:18:LEU:CA	2:M:408:ARG:HH21	2.18	0.55
2:M:676:ILE:O	2:M:676:ILE:HG23	2.06	0.55
2:M:1014:SER:HB3	2:M:1017:THR:HG23	1.88	0.55
3:N:837:GLY:O	3:N:864:VAL:HA	2.07	0.55
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.88	0.55
1:A:42:ARG:NH1	2:C:978:ARG:HA	2.21	0.55
1:A:206:THR:HG22	1:A:209:GLU:N	2.18	0.55
1:A:219:ARG:HH11	1:A:219:ARG:CG	2.20	0.55
2:C:74:GLY:C	2:C:75:GLU:HG3	2.31	0.55
2:C:184:MET:HE3	2:C:186:VAL:CG2	2.37	0.55
2:C:860:HIS:HE1	2:C:977:GLY:HA2	1.71	0.55
2:C:911:GLU:O	2:C:915:LYS:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:218:LYS:HD2	3:D:372:ASP:CG	2.32	0.55
3:D:1063:GLU:CG	3:D:1064:GLY:N	2.70	0.55
3:D:1364:HIS:ND1	3:D:1365:ASP:N	2.54	0.55
4:E:61:GLU:CD	4:E:62:THR:H	2.15	0.55
5:F:209:PHE:O	5:F:213:ILE:HG13	2.06	0.55
2:M:610:ARG:C	2:M:611:ILE:HG13	2.32	0.55
2:M:1005:MET:HG3	2:M:1005:MET:O	2.05	0.55
2:M:1102:LEU:O	3:N:5:VAL:HA	2.07	0.55
3:N:10:ILE:O	3:N:1454:GLY:HA2	2.07	0.55
3:N:141:ILE:CG2	3:N:142:LEU:H	2.14	0.55
3:N:654:LYS:O	3:N:657:LEU:HB3	2.07	0.55
3:N:1155:VAL:HG12	3:N:1156:LEU:N	2.22	0.55
3:N:1192:LEU:HD11	3:N:1369:GLU:HG2	1.89	0.55
3:N:1209:LEU:HD23	3:N:1211:MET:SD	2.47	0.55
5:P:317:LEU:HA	5:P:329:TYR:HD2	1.72	0.55
5:P:319:THR:HG23	5:P:320:PRO:HD2	1.89	0.55
1:A:24:VAL:HA	1:A:196:THR:HB	1.88	0.55
2:C:1052:MET:HG3	3:D:623:VAL:HG22	1.88	0.55
2:C:1096:ALA:HB1	3:D:514:LEU:HD21	1.89	0.55
3:D:72:VAL:CG1	3:D:73:CYS:H	2.20	0.55
1:L:111:ALA:CB	1:L:127:LEU:HB3	2.34	0.55
1:L:216:GLU:OE2	1:L:219:ARG:CZ	2.54	0.55
2:M:393:GLN:NE2	2:M:406:HIS:NE2	2.55	0.55
2:M:437:ARG:O	2:M:467:ILE:HD13	2.07	0.55
2:M:557:ARG:HG3	2:M:844:GLY:HA3	1.89	0.55
2:M:608:GLY:C	2:M:609:ASN:HD22	2.14	0.55
2:M:899:GLN:HG3	2:M:899:GLN:O	2.07	0.55
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.89	0.55
2:M:958:THR:HG23	2:M:961:GLU:HB2	1.89	0.55
2:M:1003:ASP:O	2:M:1004:LYS:C	2.48	0.55
3:N:32:ILE:HG21	3:N:37:LEU:HA	1.89	0.55
3:N:382:GLU:HG2	3:N:383:GLY:H	1.68	0.55
3:N:914:LEU:O	3:N:914:LEU:HD23	2.06	0.55
3:N:988:ARG:O	3:N:992:ILE:HG13	2.06	0.55
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.72	0.55
5:P:276:ARG:HG3	5:P:276:ARG:NH1	2.20	0.55
1:B:77:GLU:HB2	3:D:872:ARG:NH2	2.22	0.55
2:C:418:LEU:HD22	2:C:418:LEU:N	2.22	0.55
2:C:878:SER:O	2:C:880:MET:HG3	2.07	0.55
2:C:1083:GLU:OE2	3:D:87:ARG:NH1	2.38	0.55
2:C:1115:LEU:H	2:C:1115:LEU:CD1	2.11	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:107:ASP:O	3:D:108:VAL:C	2.50	0.55
3:D:152:LEU:N	3:D:152:LEU:HD23	2.21	0.55
3:D:634:GLY:O	3:D:637:LEU:CB	2.55	0.55
4:E:41:GLU:O	4:E:42:PRO:C	2.49	0.55
2:M:602:GLU:HA	2:M:648:ARG:HA	1.89	0.55
2:M:679:PHE:HZ	2:M:978:ARG:NH1	2.04	0.55
3:N:535:PHE:O	5:P:315:VAL:N	2.37	0.55
3:N:709:HIS:NE2	3:N:711:LEU:HD12	2.22	0.55
3:N:880:ILE:O	3:N:883:ALA:HB3	2.06	0.55
3:N:1365:ASP:HB3	3:N:1369:GLU:OE2	2.06	0.55
5:P:134:LYS:HA	5:P:134:LYS:HE3	1.89	0.55
1:A:212:ASN:O	1:A:215:VAL:HG22	2.06	0.55
1:B:101:LEU:HD11	1:B:113:ASP:HB2	1.88	0.55
2:C:431:HIS:C	2:C:433:THR:H	2.14	0.55
2:C:585:GLU:HG2	2:C:665:PHE:CD2	2.42	0.55
2:C:862:PRO:HG2	2:C:925:TYR:OH	2.07	0.55
3:D:127:LEU:CD2	3:D:461:ILE:HD11	2.36	0.55
3:D:225:LEU:H	3:D:225:LEU:HD22	1.72	0.55
3:D:400:VAL:HG13	3:D:442:ASN:C	2.32	0.55
3:D:477:LEU:HD11	3:D:495:ARG:HD3	1.89	0.55
3:D:653:PHE:CZ	3:D:695:ILE:HD11	2.41	0.55
3:D:857:ILE:HG22	3:D:858:VAL:CG2	2.36	0.55
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.30	0.55
5:F:234:LYS:HD2	5:F:236:SER:CB	2.37	0.55
1:L:45:LEU:HD21	1:L:177:VAL:HG23	1.89	0.55
2:M:704:HIS:HB2	2:M:831:ARG:NH2	2.21	0.55
2:M:756:VAL:O	2:M:789:SER:HB3	2.06	0.55
2:M:913:GLU:O	2:M:916:GLU:HB3	2.07	0.55
2:M:987:ILE:HG23	3:N:948:THR:CG2	2.34	0.55
2:M:1043:TYR:CD2	3:N:763:MET:HG3	2.41	0.55
3:N:465:LEU:O	3:N:468:LEU:HG	2.07	0.55
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.22	0.55
3:N:699:VAL:H	3:N:756:GLN:HE22	1.54	0.55
3:N:786:ILE:CG2	3:N:1026:SER:HB2	2.37	0.55
3:N:1155:VAL:HG21	3:N:1183:ILE:HD11	1.89	0.55
3:N:1192:LEU:HD22	3:N:1345:GLU:OE2	2.07	0.55
3:N:1372:VAL:HG13	3:N:1375:MET:CE	2.37	0.55
3:N:1474:ALA:O	3:N:1475:GLY:C	2.50	0.55
5:P:358:LEU:HD21	5:P:370:LYS:HZ2	1.70	0.55
2:C:1105:LYS:HB2	2:C:1107:ASN:HD22	1.72	0.54
3:D:218:LYS:CD	3:D:372:ASP:OD1	2.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:728:LEU:HD11	3:D:732:VAL:HG21	1.88	0.54
4:E:51:LEU:HD12	4:E:52:GLU:C	2.32	0.54
1:K:181:VAL:HG12	2:M:938:LYS:HD2	1.89	0.54
2:M:51:THR:O	2:M:51:THR:HG22	2.06	0.54
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.87	0.54
2:M:376:ARG:HE	2:M:376:ARG:HA	1.73	0.54
2:M:491:GLU:C	2:M:493:ARG:H	2.15	0.54
2:M:524:VAL:HG22	2:M:525:SER:N	2.23	0.54
2:M:940:GLU:HG3	2:M:973:VAL:HG21	1.88	0.54
3:N:179:VAL:HG21	3:N:217:LYS:CE	2.37	0.54
3:N:231:VAL:CA	3:N:378:ILE:HG12	2.37	0.54
3:N:1393:GLN:HB2	3:N:1398:TRP:CE2	2.41	0.54
5:P:101:GLU:O	5:P:104:ARG:HB3	2.07	0.54
5:P:156:VAL:HG13	5:P:157:GLU:N	2.21	0.54
1:A:101:LEU:HD11	1:A:109:VAL:CG1	2.37	0.54
1:A:144:VAL:O	1:A:145:ASP:OD1	2.26	0.54
3:D:945:SER:CB	3:D:947:ILE:HG23	2.37	0.54
3:D:1020:LEU:HD12	3:D:1023:MET:HE1	1.89	0.54
3:D:1310:ARG:CG	3:D:1327:ARG:HB3	2.33	0.54
3:D:1491:THR:HG21	4:E:89:MET:HE1	1.88	0.54
4:E:54:LEU:HA	4:E:58:PRO:CD	2.37	0.54
1:L:222:LEU:O	1:L:225:PHE:HD1	1.89	0.54
2:M:111:ASP:HB3	2:M:112:GLU:OE2	2.08	0.54
2:M:165:LEU:HA	2:M:166:PRO:C	2.32	0.54
2:M:370:ALA:CB	5:P:280:GLN:HG3	2.37	0.54
3:N:95:LEU:HD12	3:N:515:GLU:CA	2.38	0.54
3:N:422:ALA:CB	3:N:427:VAL:HG22	2.33	0.54
3:N:653:PHE:CE2	3:N:695:ILE:HD12	2.43	0.54
3:N:703:ASN:ND2	3:N:713:ILE:HG12	2.22	0.54
3:N:840:LYS:HB2	3:N:840:LYS:NZ	2.22	0.54
3:N:1486:VAL:CG1	4:O:73:LEU:HD22	2.37	0.54
5:P:138:SER:O	5:P:141:VAL:HG23	2.06	0.54
5:P:316:SER:C	5:P:318:GLU:H	2.16	0.54
5:P:411:HIS:HA	5:P:414:ARG:HH21	1.72	0.54
1:B:156:HIS:CD2	1:B:156:HIS:H	2.26	0.54
2:C:41:ASN:HA	2:C:45:GLN:HB3	1.89	0.54
2:C:939:ARG:HA	2:C:939:ARG:HE	1.72	0.54
2:C:1007:ALA:O	2:C:1027:PHE:CD2	2.61	0.54
3:D:85:VAL:O	3:D:89:ARG:HD2	2.06	0.54
3:D:974:ILE:HD13	3:D:991:GLN:HB3	1.90	0.54
3:D:1196:THR:O	3:D:1197:ARG:O	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:91:VAL:N	5:F:92:PRO:HD3	2.22	0.54
5:F:148:LYS:HB2	5:F:148:LYS:NZ	2.23	0.54
1:K:176:ARG:NH1	2:M:863:ASP:HB2	2.22	0.54
2:M:44:ILE:HD12	2:M:44:ILE:H	1.71	0.54
2:M:327:HIS:C	2:M:329:GLY:H	2.15	0.54
2:M:1060:ILE:CG1	2:M:1083:GLU:HG3	2.31	0.54
4:O:41:GLU:O	4:O:43:GLU:N	2.40	0.54
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.37	0.54
1:B:150:TYR:H	3:D:855:HIS:CE1	2.25	0.54
2:C:174:LEU:HD23	2:C:184:MET:HG3	1.89	0.54
2:C:773:LEU:O	2:C:777:ILE:HG13	2.08	0.54
2:C:805:ARG:O	2:C:806:LEU:HD23	2.08	0.54
3:D:99:ALA:O	3:D:514:LEU:HB2	2.07	0.54
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.37	0.54
3:D:1307:LYS:HD3	3:D:1307:LYS:N	2.23	0.54
3:D:1393:GLN:HB2	3:D:1398:TRP:HE1	1.72	0.54
5:F:396:ARG:HA	5:F:399:GLN:HB2	1.89	0.54
1:L:102:LYS:HA	1:L:138:LEU:O	2.08	0.54
2:M:287:GLY:O	2:M:288:ARG:C	2.50	0.54
2:M:501:THR:HG22	2:M:513:VAL:HG12	1.89	0.54
2:M:578:VAL:O	2:M:900:ARG:HB3	2.07	0.54
2:M:599:GLU:HA	2:M:651:LYS:HA	1.88	0.54
2:M:983:ILE:O	2:M:984:GLU:C	2.50	0.54
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.42	0.54
3:N:399:ARG:HB2	3:N:402:PRO:HG3	1.87	0.54
3:N:423:ASP:OD2	5:P:178:ARG:HB2	2.07	0.54
3:N:728:LEU:HD22	3:N:745:MET:SD	2.47	0.54
5:P:196:VAL:O	5:P:200:LYS:HG3	2.06	0.54
1:A:144:VAL:CG1	1:A:145:ASP:N	2.71	0.54
1:B:83:LYS:NZ	1:B:168:ASP:OD2	2.26	0.54
2:C:413:LEU:H	2:C:413:LEU:CD1	2.00	0.54
2:C:484:VAL:O	2:C:484:VAL:HG12	2.07	0.54
3:D:186:VAL:HG21	3:D:213:VAL:H	1.72	0.54
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.23	0.54
3:D:586:ARG:HH12	3:D:1444:THR:HG21	1.72	0.54
3:D:650:LEU:HD22	3:D:688:TRP:HH2	1.71	0.54
3:D:826:PRO:O	3:D:836:VAL:CG1	2.55	0.54
3:D:845:ASN:O	3:D:846:PRO:C	2.50	0.54
3:D:949:ILE:HA	3:D:953:ASP:OD1	2.07	0.54
5:F:278:LEU:HD13	5:F:286:PRO:HB3	1.90	0.54
5:F:368:VAL:HG21	5:F:389:PHE:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:62:LEU:CD1	1:L:63:HIS:H	2.20	0.54
1:L:133:GLU:HG3	1:L:134:GLU:H	1.73	0.54
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.88	0.54
2:M:265:ARG:CG	2:M:288:ARG:HG3	2.32	0.54
2:M:417:GLY:C	2:M:418:LEU:HD22	2.33	0.54
2:M:521:PRO:HG3	3:N:1068:LEU:CD2	2.36	0.54
2:M:841:ASN:ND2	2:M:843:HIS:H	2.06	0.54
2:M:1085:PHE:O	2:M:1086:ARG:C	2.50	0.54
3:N:373:PRO:HB2	3:N:374:GLU:OE2	2.08	0.54
3:N:571:LYS:HB2	3:N:571:LYS:NZ	2.23	0.54
3:N:604:THR:C	3:N:606:ILE:N	2.63	0.54
3:N:625:TYR:CB	3:N:749:VAL:HG23	2.37	0.54
3:N:767:HIS:O	3:N:924:MET:HE2	2.07	0.54
5:P:323:ASP:O	5:P:324:GLU:C	2.51	0.54
1:A:36:LEU:O	1:A:39:PRO:HD2	2.08	0.54
2:C:200:LEU:HD22	2:C:300:ASP:OD1	2.07	0.54
2:C:250:ARG:HB3	2:C:253:ALA:HB2	1.88	0.54
2:C:498:GLN:O	2:C:501:THR:HG23	2.07	0.54
2:C:520:GLU:O	2:C:522:VAL:HG23	2.08	0.54
2:C:1034:GLU:HB3	3:D:618:LEU:O	2.08	0.54
3:D:245:LEU:HB3	3:D:366:LYS:HE2	1.88	0.54
1:K:89:PHE:CZ	1:K:97:VAL:HG23	2.43	0.54
2:M:370:ALA:HB2	5:P:280:GLN:HG3	1.89	0.54
2:M:594:ALA:HB3	2:M:596:TYR:CE1	2.43	0.54
2:M:848:VAL:CG1	3:N:632:VAL:HG22	2.36	0.54
3:N:239:GLY:C	3:N:241:ILE:H	2.15	0.54
3:N:1252:ILE:HG22	3:N:1253:THR:N	2.22	0.54
5:P:94:LEU:HB2	5:P:98:GLU:HG3	1.89	0.54
1:B:34:VAL:O	1:B:36:LEU:N	2.40	0.54
2:C:405:ARG:HH12	2:C:563:ASN:ND2	2.06	0.54
2:C:580:MET:HB3	2:C:584:GLU:CD	2.33	0.54
2:C:586:ARG:HD3	2:C:590:ASP:OD2	2.08	0.54
2:C:599:GLU:HG2	2:C:600:ASP:H	1.72	0.54
2:C:837:ASP:OD1	2:C:996:LYS:HE3	2.08	0.54
3:D:445:ARG:CD	3:D:445:ARG:H	2.20	0.54
3:D:452:ILE:HG23	3:D:452:ILE:O	2.08	0.54
3:D:570:GLU:OE2	5:F:214:GLN:HG3	2.07	0.54
3:D:573:MET:SD	5:F:210:LEU:HB3	2.48	0.54
3:D:670:VAL:O	3:D:673:ALA:N	2.41	0.54
3:D:911:LEU:O	3:D:912:LYS:C	2.50	0.54
3:D:1262:LEU:C	3:D:1264:GLU:H	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1441:GLN:CA	3:D:1441:GLN:HE21	2.19	0.54
1:K:41:ARG:NH2	2:M:860:HIS:ND1	2.55	0.54
2:M:154:ARG:NH1	2:M:157:ARG:H	2.06	0.54
2:M:172:ILE:HD12	2:M:172:ILE:N	2.10	0.54
2:M:193:LEU:O	2:M:193:LEU:HD13	2.08	0.54
2:M:501:THR:HB	2:M:513:VAL:HG11	1.89	0.54
2:M:564:MET:CE	2:M:846:LYS:HD2	2.38	0.54
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.04	0.54
2:M:1094:ALA:HB2	3:N:520:LEU:CD1	2.38	0.54
3:N:166:GLN:HE21	3:N:167:GLU:C	2.15	0.54
3:N:493:ARG:HE	3:N:1389:LEU:CD2	2.21	0.54
3:N:892:ASP:HB3	3:N:895:VAL:HB	1.90	0.54
4:O:40:LEU:HB2	4:O:45:ARG:CZ	2.38	0.54
5:P:120:THR:C	5:P:122:LEU:H	2.15	0.54
1:B:32:PHE:C	1:B:34:VAL:N	2.63	0.54
1:B:33:GLY:C	1:B:181:VAL:HG21	2.33	0.54
1:B:47:SER:O	1:B:48:ILE:C	2.50	0.54
1:B:108:GLU:CD	1:B:131:THR:HG22	2.33	0.54
1:B:207:PRO:O	1:B:208:LEU:C	2.51	0.54
2:C:838:LYS:HB2	2:C:997:LEU:HD12	1.88	0.54
2:C:1014:SER:OG	2:C:1016:ILE:HG12	2.08	0.54
2:C:1086:ARG:NH1	3:D:88:TYR:CE1	2.76	0.54
3:D:473:LEU:O	3:D:476:GLU:HB3	2.08	0.54
3:D:646:LYS:CG	3:D:647:ARG:H	2.20	0.54
3:D:996:TRP:CD1	3:D:1056:PRO:HG2	2.43	0.54
3:D:1065:LEU:CD1	3:D:1069:GLU:HB3	2.37	0.54
3:D:1066:THR:OG1	3:D:1069:GLU:HB2	2.07	0.54
3:D:1107:VAL:HG11	3:D:1217:ILE:HA	1.87	0.54
3:D:1231:GLU:O	3:D:1232:PRO:C	2.51	0.54
3:D:1484:THR:HG22	3:D:1485:GLN:N	2.23	0.54
1:K:13:VAL:CG1	1:K:14:ARG:H	2.21	0.54
3:N:240:GLU:HG3	3:N:243:ALA:HB3	1.90	0.54
3:N:388:HIS:HB2	5:P:94:LEU:HD21	1.89	0.54
3:N:470:LEU:HD22	3:N:499:VAL:HG13	1.89	0.54
3:N:1008:PHE:O	3:N:1009:LYS:C	2.49	0.54
3:N:1436:SER:OG	3:N:1464:GLU:HB3	2.08	0.54
5:P:222:ARG:O	5:P:225:GLU:HB3	2.08	0.54
2:C:355:VAL:HG23	2:C:372:LEU:O	2.08	0.54
2:C:691:SER:C	2:C:693:GLU:H	2.15	0.54
2:C:691:SER:HB3	2:C:868:ASP:HA	1.88	0.54
2:C:939:ARG:HD3	2:C:982:PRO:CG	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:944:LEU:HD11	2:C:963:LEU:HD21	1.90	0.54
3:D:695:ILE:O	3:D:696:HIS:C	2.50	0.54
3:D:702:LEU:HA	3:D:746:ALA:O	2.08	0.54
3:D:766:ALA:HB1	4:E:2:ALA:HB2	1.89	0.54
3:D:1365:ASP:O	3:D:1369:GLU:HG3	2.07	0.54
3:D:1437:ALA:O	3:D:1446:VAL:HG21	2.08	0.54
1:K:64:GLU:HB2	1:K:165:ILE:HG21	1.90	0.54
2:M:573:ARG:HG3	2:M:698:ASP:O	2.07	0.54
2:M:959:PRO:O	2:M:963:LEU:HG	2.08	0.54
2:M:1101:THR:OG1	2:M:1109:VAL:O	2.26	0.54
3:N:137:PRO:HG2	3:N:453:ASP:CB	2.38	0.54
3:N:911:LEU:O	3:N:912:LYS:C	2.50	0.54
3:N:1213:ARG:CB	3:N:1214:PRO:HD2	2.28	0.54
5:P:371:LEU:HD23	5:P:375:LEU:HD13	1.89	0.54
1:B:176:ARG:HH22	3:D:884:ARG:HD3	1.73	0.54
1:B:184:THR:O	1:B:190:THR:O	2.26	0.54
2:C:615:TYR:HD1	2:C:619:ARG:NH2	2.05	0.54
2:C:626:ARG:HB3	2:C:629:TYR:CD1	2.43	0.54
3:D:133:ILE:CG2	3:D:454:ALA:HB1	2.38	0.54
3:D:367:ILE:HG23	3:D:368:VAL:N	2.23	0.54
3:D:423:ASP:O	3:D:425:GLY:N	2.41	0.54
3:D:528:VAL:CG2	3:D:536:ALA:HB3	2.29	0.54
5:F:113:ILE:HG23	5:F:127:ILE:HG21	1.89	0.54
1:K:176:ARG:HD3	2:M:864:GLY:HA3	1.88	0.54
2:M:95:TYR:CZ	2:M:114:PHE:HB3	2.43	0.54
2:M:97:ARG:HH21	2:M:109:LYS:HZ2	1.56	0.54
2:M:129:ILE:CG2	2:M:130:ASN:H	2.10	0.54
2:M:181:VAL:HG12	2:M:182:VAL:N	2.23	0.54
2:M:480:THR:HG22	2:M:482:GLU:N	2.23	0.54
2:M:578:VAL:HA	2:M:900:ARG:HD3	1.88	0.54
2:M:692:GLU:O	2:M:693:GLU:C	2.51	0.54
2:M:757:GLY:HA2	2:M:789:SER:CB	2.38	0.54
2:M:878:SER:HB3	3:N:1029:ARG:HD3	1.90	0.54
3:N:130:SER:O	3:N:131:LYS:HB2	2.07	0.54
3:N:890:VAL:O	3:N:892:ASP:N	2.41	0.54
3:N:920:LEU:H	3:N:920:LEU:HD12	1.72	0.54
3:N:1068:LEU:CD2	3:N:1072:ILE:HD13	2.37	0.54
3:N:1135:ARG:CB	3:N:1135:ARG:HH11	2.21	0.54
3:N:1378:TYR:CE2	3:N:1394:VAL:HG22	2.43	0.54
3:N:1496:GLU:O	3:N:1500:LYS:HG3	2.08	0.54
5:P:274:THR:O	5:P:278:LEU:HG	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.33	0.53
2:C:204:GLN:OE1	2:C:222:MET:HA	2.08	0.53
2:C:487:THR:HG22	2:C:488:ALA:N	2.22	0.53
2:C:691:SER:CB	2:C:868:ASP:HA	2.39	0.53
2:C:725:ASP:O	2:C:727:PRO:HD3	2.08	0.53
2:C:937:ASP:C	2:C:939:ARG:H	2.15	0.53
2:C:1005:MET:HE1	3:D:645:PRO:CD	2.36	0.53
2:C:1030:GLN:HE22	3:D:628:ARG:HE	1.56	0.53
3:D:245:LEU:HD12	3:D:366:LYS:HE2	1.90	0.53
3:D:697:GLY:HA3	4:E:59:ASN:OD1	2.08	0.53
4:E:22:VAL:HG12	4:E:68:LEU:HD22	1.91	0.53
2:M:3:ILE:O	2:M:3:ILE:HG22	2.08	0.53
2:M:167:LYS:C	2:M:169:GLY:N	2.65	0.53
2:M:474:VAL:HG12	2:M:530:GLU:O	2.08	0.53
2:M:580:MET:HE2	2:M:902:ILE:HD11	1.90	0.53
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.89	0.53
2:M:1114:GLY:C	2:M:1116:ALA:H	2.16	0.53
3:N:122:GLU:HA	3:N:122:GLU:OE1	2.06	0.53
3:N:131:LYS:CD	3:N:568:ARG:HG2	2.37	0.53
1:B:182:GLU:HG3	1:B:194:LYS:HD3	1.91	0.53
2:C:145:GLY:H	2:C:163:ILE:HG23	1.72	0.53
2:C:205:GLU:HG3	2:C:206:THR:N	2.24	0.53
2:C:439:CYS:HB2	2:C:541:SER:CB	2.37	0.53
2:C:768:THR:O	2:C:772:ARG:N	2.41	0.53
2:C:876:VAL:HG22	2:C:884:GLN:NE2	2.23	0.53
3:D:241:ILE:HA	3:D:244:GLU:CB	2.38	0.53
2:M:823:VAL:HG12	2:M:823:VAL:O	2.08	0.53
3:N:52:PRO:HG2	3:N:81:THR:O	2.08	0.53
3:N:149:LYS:HD3	3:N:149:LYS:N	2.23	0.53
3:N:908:LYS:HB3	3:N:1027:GLY:CA	2.34	0.53
3:N:916:TYR:O	3:N:920:LEU:HD13	2.09	0.53
3:N:1307:LYS:C	3:N:1309:ALA:H	2.16	0.53
5:P:321:ILE:HG21	5:P:332:PHE:CZ	2.44	0.53
5:P:389:PHE:HD2	5:P:397:ILE:HD11	1.73	0.53
1:A:67:THR:HG21	2:C:609:ASN:CG	2.33	0.53
1:A:208:LEU:O	1:A:209:GLU:C	2.49	0.53
1:B:175:ARG:HH12	1:B:202:ASP:HB3	1.71	0.53
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.69	0.53
2:C:313:LEU:C	2:C:315:ALA:H	2.15	0.53
2:C:466:PHE:HB3	2:C:487:THR:HG23	1.91	0.53
3:D:601:ARG:NH2	3:D:611:GLN:HB2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:625:TYR:CD1	3:D:625:TYR:N	2.76	0.53
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.91	0.53
5:F:156:VAL:HG23	5:F:157:GLU:N	2.23	0.53
2:M:370:ALA:HB2	5:P:280:GLN:HA	1.90	0.53
3:N:56:TYR:CE1	3:N:66:GLN:HG3	2.42	0.53
3:N:783:ARG:NH1	3:N:1029:ARG:NH2	2.56	0.53
3:N:871:LYS:HE3	3:N:873:LEU:HD21	1.89	0.53
3:N:1094:LEU:O	3:N:1098:LEU:HD13	2.07	0.53
3:N:1497:GLU:O	3:N:1501:GLU:HG3	2.07	0.53
5:P:191:ASN:C	5:P:193:ARG:H	2.15	0.53
1:A:219:ARG:HH11	1:A:219:ARG:HG3	1.73	0.53
1:B:143:ARG:NH1	1:B:158:ILE:HG23	2.24	0.53
2:C:640:ARG:O	2:C:656:ALA:HB1	2.09	0.53
2:C:780:GLU:C	2:C:782:ALA:H	2.17	0.53
3:D:169:TYR:N	3:D:170:PRO:HD3	2.23	0.53
3:D:220:ARG:NH2	3:D:220:ARG:HB3	2.23	0.53
3:D:657:LEU:HD22	3:D:691:LEU:HD13	1.89	0.53
3:D:898:GLU:HB3	3:D:921:ARG:NH2	2.24	0.53
3:D:1076:GLY:HA2	3:D:1079:LYS:HD3	1.90	0.53
1:K:206:THR:H	1:K:209:GLU:HB2	1.74	0.53
2:M:146:VAL:HG11	2:M:162:ILE:HG12	1.90	0.53
2:M:207:LEU:HD13	2:M:221:LEU:HD11	1.90	0.53
2:M:332:ARG:CZ	2:M:464:LEU:HD21	2.38	0.53
2:M:503:LEU:HD12	2:M:505:GLY:O	2.08	0.53
2:M:762:LYS:HG2	2:M:763:GLY:H	1.73	0.53
3:N:32:ILE:CD1	3:N:527:MET:HG2	2.38	0.53
5:P:94:LEU:HB3	5:P:98:GLU:H	1.73	0.53
1:A:198:ARG:HH21	2:C:934:PHE:HE1	1.54	0.53
2:C:627:ARG:CG	2:C:628:PHE:H	2.06	0.53
2:C:988:VAL:HG12	3:D:948:THR:OG1	2.08	0.53
3:D:573:MET:HG2	5:F:210:LEU:HD13	1.90	0.53
3:D:582:LEU:HA	3:D:603:LEU:HD12	1.90	0.53
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.91	0.53
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.38	0.53
3:D:1208:ASP:OD1	3:D:1209:LEU:O	2.27	0.53
3:D:1380:GLU:HA	3:D:1392:GLY:HA2	1.89	0.53
3:D:1435:LEU:HD23	3:D:1464:GLU:O	2.09	0.53
1:K:91:ASN:CG	1:K:92:PRO:CD	2.82	0.53
1:L:162:ILE:C	1:L:163:ASN:HD22	2.17	0.53
2:M:227:PHE:C	2:M:229:MET:H	2.16	0.53
2:M:598:GLU:O	2:M:599:GLU:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:780:GLU:O	2:M:782:ALA:N	2.41	0.53
2:M:966:LEU:HD11	2:M:986:PRO:CG	2.36	0.53
3:N:10:ILE:HG22	3:N:1451:ALA:HA	1.90	0.53
3:N:39:PRO:HB3	3:N:46:ASP:HA	1.89	0.53
3:N:70:GLY:C	3:N:71:LYS:HD3	2.33	0.53
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.90	0.53
3:N:219:GLU:HA	3:N:219:GLU:OE2	2.08	0.53
3:N:225:LEU:CD2	3:N:440:VAL:HG21	2.39	0.53
3:N:371:ILE:C	3:N:371:ILE:HD12	2.34	0.53
3:N:371:ILE:HD12	3:N:372:ASP:N	2.24	0.53
3:N:533:GLY:HA3	5:P:309:LYS:HB3	1.91	0.53
3:N:958:GLU:OE2	3:N:961:LYS:HE2	2.08	0.53
3:N:1115:THR:HG22	3:N:1115:THR:O	2.08	0.53
3:N:1237:THR:HA	3:N:1255:GLY:HA3	1.90	0.53
3:N:1252:ILE:HG22	3:N:1253:THR:H	1.74	0.53
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.91	0.53
5:P:351:SER:O	5:P:355:GLU:HB2	2.08	0.53
2:C:368:THR:CB	2:C:369:PRO:HD3	2.30	0.53
2:C:612:VAL:HA	2:C:621:VAL:O	2.08	0.53
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.91	0.53
2:C:1052:MET:HE3	3:D:623:VAL:HG11	1.89	0.53
3:D:52:PRO:HG3	3:D:78:VAL:CG1	2.38	0.53
3:D:110:SER:O	3:D:113:GLY:N	2.34	0.53
3:D:133:ILE:H	3:D:133:ILE:HD12	1.72	0.53
3:D:212:ARG:HD2	3:D:445:ARG:NH2	2.15	0.53
3:D:459:GLU:O	3:D:463:GLN:HG2	2.09	0.53
3:D:464:LEU:O	3:D:468:LEU:HG	2.09	0.53
3:D:916:TYR:CD2	3:D:916:TYR:O	2.62	0.53
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.90	0.53
4:E:47:LYS:CA	4:E:54:LEU:HB3	2.38	0.53
2:M:42:VAL:HG12	2:M:43:GLY:H	1.72	0.53
2:M:1052:MET:CE	3:N:748:HIS:HB3	2.39	0.53
3:N:59:ALA:CB	3:N:78:VAL:HG21	2.39	0.53
3:N:84:ILE:O	3:N:87:ARG:HG2	2.09	0.53
3:N:176:ASP:HB3	3:N:219:GLU:HG2	1.89	0.53
3:N:925:GLU:OE1	4:O:7:ASP:OD2	2.27	0.53
1:A:157:GLY:HA2	1:A:166:PRO:HG2	1.89	0.53
2:C:364:GLU:O	2:C:367:LEU:HD22	2.08	0.53
2:C:461:VAL:HG13	2:C:465:GLY:CA	2.38	0.53
2:C:549:PHE:O	2:C:551:GLU:N	2.42	0.53
2:C:919:ALA:CB	2:C:968:LEU:HD21	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:41:ARG:HG3	3:D:42:ASP:H	1.73	0.53
3:D:1020:LEU:HA	3:D:1023:MET:HE3	1.91	0.53
1:K:25:LEU:HD22	1:L:225:PHE:CE2	2.43	0.53
1:K:111:ALA:HB3	1:K:127:LEU:HB3	1.90	0.53
1:K:171:PHE:O	1:K:172:SER:C	2.52	0.53
1:L:71:VAL:HG22	1:L:132:LEU:HG	1.90	0.53
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.44	0.53
2:M:547:ILE:O	2:M:547:ILE:HG22	2.08	0.53
2:M:691:SER:O	2:M:692:GLU:C	2.51	0.53
3:N:168:THR:C	3:N:170:PRO:HD3	2.34	0.53
3:N:701:LEU:O	3:N:702:LEU:HD12	2.09	0.53
3:N:916:TYR:CZ	3:N:920:LEU:HD11	2.44	0.53
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.91	0.53
1:A:92:PRO:O	1:A:94:LEU:N	2.41	0.53
1:A:132:LEU:HD21	1:A:138:LEU:HB3	1.90	0.53
1:A:161:ARG:HH11	1:A:161:ARG:CG	2.21	0.53
2:C:226:VAL:HG13	2:C:227:PHE:N	2.24	0.53
2:C:468:ARG:HD3	2:C:485:TYR:O	2.09	0.53
2:C:774:LEU:HD13	2:C:774:LEU:C	2.33	0.53
2:C:976:ASP:C	2:C:978:ARG:H	2.16	0.53
3:D:389:GLU:OE1	3:D:389:GLU:N	2.42	0.53
3:D:629:SER:O	3:D:744:GLN:CB	2.56	0.53
3:D:892:ASP:HB3	3:D:895:VAL:CG2	2.39	0.53
3:D:930:LEU:O	3:D:934:LEU:HG	2.09	0.53
3:D:1273:VAL:HG21	3:D:1305:LEU:HD21	1.90	0.53
5:F:189:GLU:C	5:F:191:ASN:H	2.17	0.53
1:L:101:LEU:HD12	1:L:113:ASP:C	2.33	0.53
2:M:385:PHE:CD1	2:M:389:SER:HB2	2.44	0.53
3:N:14:SER:O	3:N:17:LYS:N	2.41	0.53
3:N:18:ILE:HG21	3:N:516:ALA:O	2.09	0.53
3:N:210:ARG:CD	3:N:398:ALA:HB3	2.34	0.53
3:N:528:VAL:CG1	3:N:529:GLN:N	2.72	0.53
3:N:798:GLU:OE1	3:N:826:PRO:HB3	2.08	0.53
4:O:40:LEU:HB2	4:O:45:ARG:NH1	2.24	0.53
2:C:12:VAL:HG13	2:C:13:ILE:N	2.24	0.53
2:C:22:GLN:NE2	2:C:336:VAL:CG2	2.71	0.53
2:C:196:LEU:HD23	2:C:196:LEU:C	2.34	0.53
2:C:923:GLU:O	2:C:927:GLY:N	2.38	0.53
3:D:40:GLU:CG	3:D:41:ARG:H	2.22	0.53
3:D:1304:LYS:H	3:D:1304:LYS:CD	1.93	0.53
3:D:1497:GLU:O	3:D:1501:GLU:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:154:LYS:HG3	5:F:158:GLU:OE2	2.09	0.53
5:F:418:LEU:O	5:F:419:ARG:C	2.52	0.53
1:K:127:LEU:HD12	1:K:128:HIS:H	1.73	0.53
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.09	0.53
6:M:1120:STD:C31	3:N:1086:LEU:HB2	2.39	0.53
3:N:40:GLU:HG3	3:N:41:ARG:HG2	1.90	0.53
3:N:212:ARG:HB2	3:N:445:ARG:NH2	2.24	0.53
3:N:386:HIS:O	5:P:96:LEU:HD12	2.08	0.53
3:N:669:ASN:H	3:N:672:ALA:HB2	1.74	0.53
3:N:785:ILE:HG22	3:N:789:LEU:HD12	1.91	0.53
5:P:386:VAL:HA	5:P:394:ARG:HG3	1.91	0.53
1:A:94:LEU:HD21	1:A:119:ASP:HB2	1.91	0.53
2:C:204:GLN:HE21	2:C:228:ALA:HB2	1.73	0.53
2:C:227:PHE:C	2:C:229:MET:H	2.17	0.53
2:C:426:ASP:HA	2:C:429:ASP:OD2	2.08	0.53
2:C:895:TYR:CD2	2:C:896:PHE:CD1	2.97	0.53
2:C:1102:LEU:HD22	3:D:9:ARG:HD3	1.90	0.53
3:D:502:PHE:CE2	3:D:509:PRO:HB3	2.44	0.53
5:F:371:LEU:HD22	5:F:375:LEU:HD22	1.91	0.53
1:K:42:ARG:HH12	2:M:857:ASP:CB	2.21	0.53
2:M:383:ARG:HB2	2:M:383:ARG:HH11	1.73	0.53
2:M:517:ARG:O	2:M:518:LYS:C	2.49	0.53
2:M:534:VAL:H	2:M:538:GLN:HE22	1.57	0.53
2:M:714:ASP:HB2	2:M:818:GLY:O	2.08	0.53
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.91	0.53
3:N:998:GLU:O	3:N:1002:LYS:HG3	2.08	0.53
4:O:22:VAL:HG12	4:O:23:VAL:N	2.24	0.53
5:P:365:GLU:HA	5:P:368:VAL:CG2	2.39	0.53
1:A:9:PRO:HB3	1:A:25:LEU:CD2	2.39	0.52
1:A:20:TYR:CD2	1:A:21:GLY:N	2.72	0.52
2:C:424:GLY:O	2:C:427:VAL:N	2.40	0.52
2:C:679:PHE:CD1	2:C:870:ILE:HD13	2.44	0.52
2:C:799:ILE:HD13	2:C:799:ILE:O	2.09	0.52
2:C:947:ALA:O	2:C:953:VAL:HG22	2.09	0.52
3:D:119:SER:C	3:D:121:THR:H	2.17	0.52
3:D:433:GLY:H	3:D:449:SER:N	2.07	0.52
3:D:654:LYS:CB	3:D:655:PRO:HD3	2.30	0.52
3:D:1412:LYS:O	3:D:1414:PRO:HD3	2.09	0.52
5:F:416:ARG:NH2	5:F:419:ARG:CG	2.72	0.52
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.74	0.52
1:L:38:ASN:CB	1:L:39:PRO:HD3	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:206:THR:CG2	1:L:209:GLU:H	2.21	0.52
2:M:183:SER:CB	2:M:190:LYS:HG2	2.23	0.52
2:M:340:MET:C	2:M:340:MET:SD	2.93	0.52
2:M:549:PHE:HE2	2:M:887:GLU:HA	1.74	0.52
2:M:1005:MET:SD	3:N:648:MET:HG3	2.49	0.52
3:N:804:LEU:O	3:N:831:GLY:HA2	2.09	0.52
3:N:806:PHE:HA	3:N:809:PRO:HD2	1.91	0.52
3:N:1311:LEU:HD23	3:N:1311:LEU:N	2.23	0.52
3:N:1458:GLU:O	3:N:1460:ILE:HG13	2.08	0.52
1:A:100:LEU:HD13	1:A:115:LEU:HD11	1.90	0.52
1:A:205:VAL:HG23	1:A:206:THR:N	2.24	0.52
1:B:32:PHE:O	1:B:33:GLY:C	2.50	0.52
2:C:341:THR:O	2:C:344:PHE:HB3	2.10	0.52
2:C:682:TYR:HB3	2:C:689:VAL:CG1	2.39	0.52
2:C:910:LYS:HB3	2:C:912:PRO:HD2	1.90	0.52
3:D:9:ARG:HH12	3:D:11:ALA:HB2	1.72	0.52
3:D:568:ARG:O	3:D:569:ASN:C	2.52	0.52
3:D:615:ARG:O	3:D:619:LEU:CB	2.58	0.52
3:D:630:VAL:O	3:D:726:ILE:HG13	2.09	0.52
3:D:796:ARG:O	3:D:797:LYS:HG3	2.09	0.52
2:M:367:LEU:HD12	2:M:367:LEU:O	2.08	0.52
2:M:863:ASP:OD2	2:M:865:THR:HG22	2.10	0.52
2:M:1074:GLU:HA	4:O:31:LEU:HD21	1.91	0.52
3:N:148:GLU:CB	3:N:151:GLN:HB2	2.23	0.52
3:N:212:ARG:HB3	3:N:394:LEU:CD1	2.38	0.52
3:N:245:LEU:HD22	3:N:246:PRO:CD	2.33	0.52
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.39	0.52
3:N:585:GLY:C	3:N:587:ARG:H	2.17	0.52
3:N:1215:VAL:HG22	3:N:1216:SER:N	2.24	0.52
3:N:1267:ARG:CZ	3:N:1271:LYS:HG3	2.40	0.52
3:N:1377:LYS:HE2	3:N:1394:VAL:HG22	1.91	0.52
5:P:282:LEU:C	5:P:284:ARG:H	2.17	0.52
1:A:27:PRO:CG	1:A:186:LEU:HD22	2.35	0.52
1:B:20:TYR:OH	1:B:198:ARG:HD2	2.09	0.52
2:C:460:ARG:CD	2:C:485:TYR:CE2	2.86	0.52
2:C:872:ASN:OD1	2:C:873:PRO:N	2.42	0.52
3:D:128:TYR:HB3	3:D:129:PHE:CD1	2.45	0.52
3:D:592:THR:O	3:D:593:ASN:C	2.51	0.52
3:D:646:LYS:HG3	3:D:647:ARG:N	2.23	0.52
3:D:728:LEU:HD11	3:D:732:VAL:CG2	2.40	0.52
3:D:1115:THR:HB	3:D:1151:ARG:NH2	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1265:ALA:O	3:D:1266:ARG:HG3	2.09	0.52
1:L:44:LEU:CD1	1:L:199:ILE:HD11	2.38	0.52
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.74	0.52
2:M:61:LYS:O	2:M:61:LYS:HD3	2.08	0.52
2:M:172:ILE:HA	2:M:185:LYS:O	2.10	0.52
2:M:238:LEU:HD23	2:M:238:LEU:O	2.09	0.52
2:M:555:ALA:O	2:M:556:ASN:C	2.53	0.52
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.91	0.52
2:M:689:VAL:O	2:M:869:VAL:HG23	2.09	0.52
2:M:998:TYR:HE2	2:M:1000:MET:SD	2.33	0.52
3:N:175:VAL:HG12	3:N:176:ASP:OD1	2.09	0.52
3:N:658:LEU:HD23	3:N:661:MET:HE3	1.92	0.52
3:N:736:PHE:O	3:N:738:ALA:N	2.42	0.52
2:C:654:LEU:HD11	2:C:663:ASN:O	2.09	0.52
2:C:691:SER:C	2:C:693:GLU:N	2.67	0.52
3:D:127:LEU:HD22	3:D:134:VAL:CG2	2.36	0.52
3:D:761:ILE:O	3:D:767:HIS:HD2	1.92	0.52
3:D:770:LEU:HG	3:D:919:PHE:CE1	2.45	0.52
3:D:1101:VAL:O	3:D:1101:VAL:HG12	2.10	0.52
3:D:1149:LEU:HD21	3:D:1166:LEU:HD21	1.92	0.52
1:K:1:MET:HG3	1:K:6:LEU:HB2	1.91	0.52
1:L:14:ARG:NH2	1:L:24:VAL:HG21	2.24	0.52
1:L:158:ILE:HG22	1:L:159:LYS:N	2.24	0.52
2:M:846:LYS:NZ	3:N:741:ASP:O	2.42	0.52
2:M:925:TYR:CD1	2:M:925:TYR:C	2.87	0.52
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.10	0.52
3:N:691:LEU:C	3:N:693:GLU:H	2.18	0.52
4:O:54:LEU:HD21	4:O:58:PRO:HB2	1.91	0.52
5:P:135:ILE:HD11	5:P:178:ARG:CG	2.40	0.52
5:P:196:VAL:HG13	5:P:213:ILE:HD11	1.90	0.52
5:P:405:LEU:HD23	5:P:405:LEU:C	2.34	0.52
1:A:44:LEU:HB2	1:A:177:VAL:HG21	1.92	0.52
1:B:7:LYS:HE3	1:B:186:LEU:CD2	2.40	0.52
2:C:15:LEU:CD2	2:C:583:LEU:HD21	2.39	0.52
2:C:495:THR:HG23	2:C:517:ARG:HE	1.73	0.52
2:C:1031:ARG:HA	3:D:621:LYS:O	2.10	0.52
2:C:1050:GLN:HE21	3:D:1470:ARG:C	2.17	0.52
3:D:233:LYS:HZ1	3:D:237:LYS:HD2	1.74	0.52
3:D:688:TRP:HA	3:D:688:TRP:HE3	1.75	0.52
3:D:1486:VAL:HG12	4:E:73:LEU:HD22	1.90	0.52
5:F:326:ASP:OD1	5:F:326:ASP:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.74	0.52
2:M:196:LEU:HA	2:M:199:VAL:CG2	2.39	0.52
2:M:833:LEU:HD13	2:M:996:LYS:CD	2.40	0.52
3:N:14:SER:O	3:N:15:PRO:C	2.51	0.52
3:N:22:SER:HA	3:N:90:MET:O	2.09	0.52
3:N:544:TYR:O	3:N:548:ILE:HG13	2.10	0.52
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.92	0.52
3:N:1031:ASN:O	3:N:1034:GLN:HB2	2.10	0.52
1:B:151:VAL:O	1:B:169:ALA:N	2.32	0.52
2:C:207:LEU:O	2:C:211:LEU:HB3	2.10	0.52
2:C:404:LEU:O	2:C:408:ARG:HG2	2.10	0.52
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.39	0.52
3:D:124:GLU:O	3:D:126:VAL:N	2.42	0.52
3:D:223:LEU:N	3:D:223:LEU:HD22	2.25	0.52
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.43	0.52
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.34	0.52
2:M:43:GLY:HA2	2:M:341:THR:HG21	1.91	0.52
3:N:96:ALA:CB	3:N:554:LEU:HG	2.40	0.52
3:N:552:ASN:O	3:N:553:ARG:C	2.52	0.52
3:N:1124:GLN:NE2	3:N:1133:ARG:HD2	2.22	0.52
3:N:1264:GLU:O	3:N:1266:ARG:N	2.42	0.52
5:P:134:LYS:HB2	5:P:178:ARG:HH11	1.73	0.52
1:A:58:ILE:HG22	1:A:59:GLU:N	2.24	0.52
1:B:82:LEU:C	1:B:84:GLU:H	2.16	0.52
2:C:88:LEU:N	2:C:88:LEU:HD23	2.25	0.52
2:C:142:ARG:HH11	2:C:325:ILE:HG23	1.73	0.52
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.91	0.52
2:C:564:MET:HE1	2:C:846:LYS:CE	2.36	0.52
2:C:921:ALA:O	2:C:923:GLU:N	2.43	0.52
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.39	0.52
3:D:210:ARG:HD2	3:D:398:ALA:HB3	1.91	0.52
3:D:375:GLU:O	3:D:376:GLU:HB3	2.08	0.52
3:D:389:GLU:HG2	3:D:389:GLU:O	2.09	0.52
3:D:847:ASP:O	3:D:848:GLU:C	2.53	0.52
3:D:969:ARG:O	3:D:973:GLN:HG3	2.08	0.52
1:K:117:VAL:O	1:K:118:ALA:O	2.28	0.52
1:K:214:ALA:O	1:K:216:GLU:N	2.43	0.52
1:L:27:PRO:HG2	1:L:186:LEU:HD12	1.92	0.52
1:L:88:ARG:HG2	1:L:88:ARG:HH11	1.74	0.52
1:L:101:LEU:HD21	1:L:109:VAL:HG11	1.92	0.52
1:L:223:THR:C	1:L:225:PHE:N	2.67	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:6:PHE:CD1	2:M:6:PHE:N	2.78	0.52
2:M:194:VAL:HG13	2:M:221:LEU:HG	1.90	0.52
2:M:565:GLN:C	2:M:567:GLN:N	2.64	0.52
2:M:604:ALA:HB3	2:M:612:VAL:O	2.09	0.52
2:M:751:PRO:HG2	3:N:680:GLN:HE21	1.74	0.52
2:M:874:LEU:HD11	3:N:784:ASP:OD2	2.10	0.52
3:N:23:TYR:O	3:N:49:ILE:HG23	2.09	0.52
3:N:216:VAL:HG21	3:N:224:ARG:HG2	1.91	0.52
3:N:221:ALA:O	3:N:367:ILE:HD12	2.09	0.52
3:N:780:LYS:HD3	3:N:912:LYS:HG3	1.91	0.52
3:N:1345:GLU:HG3	3:N:1376:MET:SD	2.50	0.52
5:P:321:ILE:HD11	5:P:329:TYR:HA	1.91	0.52
1:A:73:GLU:OE1	1:A:130:ALA:HA	2.09	0.52
1:A:117:VAL:HG12	1:A:118:ALA:N	2.25	0.52
1:A:148:VAL:N	1:A:171:PHE:CD2	2.78	0.52
1:B:74:ASP:O	1:B:78:ILE:HG13	2.09	0.52
2:C:226:VAL:HG13	2:C:227:PHE:CD1	2.45	0.52
2:C:420:ARG:HD3	2:C:420:ARG:N	2.25	0.52
2:C:516:ARG:HH11	2:C:521:PRO:CB	2.23	0.52
2:C:737:LEU:HD21	2:C:741:GLY:O	2.09	0.52
3:D:87:ARG:O	3:D:521:PRO:CB	2.57	0.52
3:D:241:ILE:HA	3:D:244:GLU:HB2	1.92	0.52
3:D:493:ARG:HE	3:D:1389:LEU:CG	2.22	0.52
3:D:860:LEU:O	3:D:877:PRO:HD2	2.10	0.52
3:D:896:ALA:O	3:D:899:LEU:HD13	2.10	0.52
3:D:1102:THR:O	3:D:1103:HIS:C	2.52	0.52
3:D:1236:LEU:HA	3:D:1359:GLN:NE2	2.25	0.52
5:F:384:GLU:O	5:F:386:VAL:N	2.43	0.52
1:K:194:LYS:HD2	1:K:194:LYS:O	2.10	0.52
2:M:470:PRO:HD2	2:M:538:GLN:OE1	2.09	0.52
2:M:722:ILE:HD11	2:M:823:VAL:HG21	1.92	0.52
3:N:112:ILE:HG22	3:N:512:MET:SD	2.50	0.52
3:N:133:ILE:HG12	3:N:456:MET:SD	2.50	0.52
3:N:159:ARG:HH21	5:P:87:GLU:HG2	1.73	0.52
3:N:562:ALA:CB	3:N:567:ILE:HG12	2.40	0.52
1:A:104:GLU:HG2	1:A:137:ARG:HD2	1.91	0.52
2:C:250:ARG:NE	2:C:253:ALA:HB1	2.24	0.52
2:C:266:ARG:HG2	2:C:273:GLY:HA3	1.92	0.52
2:C:890:LEU:HD12	2:C:890:LEU:O	2.10	0.52
2:C:906:PHE:CE1	3:D:1067:VAL:HG13	2.45	0.52
3:D:55:ASP:HA	3:D:82:LYS:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:374:GLU:CD	3:D:374:GLU:N	2.68	0.52
3:D:384:VAL:O	5:F:232:ARG:NH1	2.42	0.52
3:D:510:GLU:O	3:D:513:ILE:HD12	2.10	0.52
3:D:583:ASP:OD1	3:D:604:THR:HG22	2.09	0.52
3:D:972:LEU:HD23	3:D:973:GLN:H	1.75	0.52
3:D:1063:GLU:HG2	3:D:1064:GLY:N	2.25	0.52
4:E:26:ARG:NH2	4:E:67:GLU:OE1	2.41	0.52
1:K:205:VAL:CG2	1:K:206:THR:N	2.73	0.52
1:L:83:LYS:NZ	3:N:842:VAL:O	2.43	0.52
2:M:103:LYS:HE2	2:M:103:LYS:HA	1.91	0.52
2:M:118:ILE:HG13	2:M:118:ILE:O	2.07	0.52
2:M:259:GLY:O	2:M:291:ALA:HB2	2.09	0.52
2:M:841:ASN:ND2	2:M:843:HIS:CD2	2.78	0.52
2:M:845:ASN:HD22	2:M:884:GLN:NE2	2.04	0.52
3:N:128:TYR:HE1	3:N:461:ILE:CG1	2.23	0.52
3:N:215:TYR:CE1	5:P:97:GLU:HB3	2.44	0.52
5:P:300:ASP:OD2	5:P:302:LYS:HG3	2.10	0.52
1:B:88:ARG:HD2	1:B:123:MET:HE2	1.91	0.52
2:C:64:LEU:HD11	2:C:100:LEU:HD13	1.91	0.52
2:C:140:ILE:HG23	2:C:333:ILE:HD12	1.92	0.52
2:C:233:GLU:O	2:C:233:GLU:CD	2.53	0.52
2:C:397:GLU:H	2:C:633:GLN:NE2	2.07	0.52
2:C:495:THR:HG23	2:C:517:ARG:NE	2.25	0.52
2:C:682:TYR:HB3	2:C:689:VAL:HG13	1.92	0.52
3:D:614:PHE:CE1	3:D:618:LEU:HD12	2.45	0.52
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.10	0.52
3:D:1130:ARG:O	3:D:1131:SER:HB3	2.10	0.52
3:D:1137:ARG:H	3:D:1137:ARG:HD2	1.74	0.52
3:D:1213:ARG:HE	3:D:1213:ARG:H	1.58	0.52
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.10	0.52
1:K:110:LYS:C	1:K:112:ARG:H	2.18	0.52
1:L:61:VAL:CG2	1:L:68:ILE:HD11	2.39	0.52
1:L:223:THR:O	1:L:225:PHE:N	2.43	0.52
2:M:807:ARG:NH1	2:M:807:ARG:HB2	2.25	0.52
2:M:1036:GLU:CD	2:M:1036:GLU:N	2.68	0.52
2:M:1047:HIS:CG	3:N:754:PHE:CD2	2.98	0.52
3:N:101:HIS:CD2	3:N:582:LEU:HD13	2.45	0.52
3:N:794:GLN:NE2	3:N:795:VAL:N	2.51	0.52
3:N:835:SER:O	3:N:836:VAL:C	2.52	0.52
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.91	0.52
3:N:1115:THR:HG22	3:N:1151:ARG:NH2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1209:LEU:C	3:N:1211:MET:N	2.63	0.52
3:N:1231:GLU:C	3:N:1231:GLU:OE1	2.53	0.52
2:C:194:VAL:HA	2:C:197:LEU:HB2	1.92	0.51
2:C:211:LEU:HD11	2:C:308:ARG:HB2	1.92	0.51
2:C:443:THR:HG21	2:C:450:GLY:N	2.12	0.51
2:C:489:THR:C	2:C:491:GLU:H	2.18	0.51
2:C:829:GLN:NE2	2:C:831:ARG:HD3	2.24	0.51
2:C:878:SER:CB	3:D:1029:ARG:NH1	2.73	0.51
3:D:22:SER:OG	3:D:24:GLY:O	2.28	0.51
3:D:387:LEU:HD11	5:F:94:LEU:HD11	1.90	0.51
3:D:632:VAL:O	3:D:727:GLN:HA	2.09	0.51
3:D:831:GLY:HA3	3:D:834:THR:O	2.09	0.51
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.45	0.51
5:F:359:SER:C	5:F:361:LEU:H	2.17	0.51
1:K:54:THR:HG22	1:K:143:ARG:HD3	1.91	0.51
1:K:179:PHE:O	1:K:180:GLN:HG3	2.10	0.51
1:L:172:SER:C	1:L:174:VAL:H	2.18	0.51
2:M:184:MET:HE2	2:M:303:PHE:CE2	2.44	0.51
2:M:427:VAL:O	2:M:427:VAL:HG12	2.09	0.51
2:M:518:LYS:HG3	2:M:518:LYS:O	2.09	0.51
3:N:67:ARG:O	3:N:69:GLU:N	2.43	0.51
3:N:584:ASN:HB2	3:N:602:SER:HB3	1.92	0.51
5:P:107:GLU:O	5:P:110:MET:HB3	2.10	0.51
2:C:428:ARG:HH12	6:D:1525:STD:H141	1.74	0.51
2:C:436:GLY:O	2:C:469:THR:HB	2.10	0.51
2:C:491:GLU:C	2:C:493:ARG:N	2.68	0.51
2:C:516:ARG:CZ	3:D:1068:LEU:CD2	2.77	0.51
2:C:723:THR:OG1	2:C:724:ARG:N	2.42	0.51
2:C:1097:LEU:HG	3:D:101:HIS:CE1	2.45	0.51
3:D:161:LEU:O	3:D:449:SER:HB2	2.10	0.51
3:D:186:VAL:HG11	3:D:213:VAL:CG1	2.39	0.51
3:D:543:LEU:CD2	3:D:580:ALA:HB1	2.29	0.51
3:D:705:ALA:HB1	3:D:706:PRO:HD3	1.87	0.51
3:D:809:PRO:HB2	3:D:812:ALA:HB3	1.92	0.51
3:D:850:LEU:HD12	3:D:850:LEU:H	1.74	0.51
3:D:1114:THR:C	3:D:1116:ASN:H	2.17	0.51
3:D:1438:ALA:O	3:D:1443:THR:HG22	2.10	0.51
5:F:140:ARG:HH11	5:F:140:ARG:HG3	1.74	0.51
5:F:393:THR:CG2	5:F:394:ARG:H	2.12	0.51
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.91	0.51
1:L:44:LEU:HD11	1:L:199:ILE:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:157:ARG:HH11	2:M:314:THR:HB	1.75	0.51
2:M:422:ARG:O	2:M:422:ARG:HG2	2.09	0.51
2:M:769:PRO:HB2	3:N:65:ARG:NH1	2.25	0.51
3:N:133:ILE:O	3:N:152:LEU:HB2	2.11	0.51
3:N:209:ARG:NH2	3:N:397:LYS:HG3	2.25	0.51
3:N:564:GLU:N	3:N:564:GLU:CD	2.68	0.51
5:P:134:LYS:O	5:P:135:ILE:CG1	2.57	0.51
5:P:367:MET:HA	5:P:370:LYS:CG	2.40	0.51
2:C:677:MET:HE2	2:C:679:PHE:HD1	1.73	0.51
2:C:873:PRO:C	2:C:875:GLY:N	2.64	0.51
2:C:948:GLU:O	2:C:951:GLY:N	2.44	0.51
2:C:1081:VAL:HG12	2:C:1082:PRO:CD	2.40	0.51
3:D:129:PHE:CD1	3:D:129:PHE:N	2.79	0.51
3:D:1259:VAL:HG21	3:D:1356:TYR:HE1	1.74	0.51
5:F:79:ASP:CB	5:F:80:PRO:HD3	2.32	0.51
2:M:745:ILE:H	2:M:745:ILE:CD1	2.24	0.51
2:M:874:LEU:CD1	3:N:784:ASP:OD2	2.58	0.51
3:N:14:SER:OG	3:N:511:TRP:NE1	2.43	0.51
3:N:227:LEU:HD13	3:N:227:LEU:N	2.26	0.51
3:N:826:PRO:HD2	3:N:829:VAL:HG13	1.92	0.51
3:N:1418:LYS:O	3:N:1419:PRO:C	2.52	0.51
4:O:23:VAL:HG11	4:O:65:MET:HG3	1.92	0.51
4:O:59:ASN:HB3	4:O:62:THR:OG1	2.10	0.51
5:P:278:LEU:HB3	5:P:286:PRO:HG2	1.91	0.51
5:P:346:THR:HG22	5:P:347:GLN:N	2.24	0.51
1:A:58:ILE:HG22	1:A:59:GLU:H	1.76	0.51
2:C:97:ARG:HH21	2:C:109:LYS:HD2	1.75	0.51
2:C:826:TYR:CD1	2:C:826:TYR:N	2.78	0.51
3:D:614:PHE:HE1	3:D:618:LEU:HD12	1.76	0.51
3:D:638:LYS:O	3:D:639:LEU:C	2.54	0.51
3:D:1197:ARG:HD3	3:D:1396:GLU:CB	2.39	0.51
4:E:45:ARG:HB3	4:E:46:PRO:CD	2.40	0.51
5:F:182:ALA:O	5:F:185:GLN:HB2	2.11	0.51
5:F:185:GLN:O	5:F:189:GLU:HG3	2.10	0.51
1:K:109:VAL:CG2	1:K:132:LEU:HD13	2.37	0.51
2:M:120:LEU:O	2:M:127:PHE:CD2	2.63	0.51
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.41	0.51
2:M:690:ILE:O	2:M:852:ILE:HA	2.11	0.51
2:M:807:ARG:HA	2:M:821:GLU:HB2	1.92	0.51
2:M:848:VAL:HG11	3:N:632:VAL:HG22	1.90	0.51
2:M:1097:LEU:CD2	3:N:10:ILE:HD13	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:74:GLU:C	3:N:75:ARG:HE	2.17	0.51
3:N:134:VAL:HA	3:N:152:LEU:HA	1.92	0.51
3:N:444:VAL:HG13	3:N:444:VAL:O	2.10	0.51
3:N:466:LYS:HG2	3:N:510:GLU:CG	2.38	0.51
3:N:556:LYS:NZ	5:P:218:GLN:HE22	2.08	0.51
5:P:82:ARG:O	5:P:86:HIS:HB2	2.09	0.51
5:P:289:GLU:CD	5:P:289:GLU:N	2.68	0.51
5:P:316:SER:C	5:P:318:GLU:N	2.67	0.51
5:P:354:LEU:HD23	5:P:418:LEU:CD2	2.39	0.51
2:C:641:PRO:HA	2:C:656:ALA:HB2	1.93	0.51
2:C:1056:LYS:HB3	3:D:623:VAL:HG13	1.93	0.51
3:D:8:VAL:HG12	3:D:9:ARG:H	1.75	0.51
3:D:52:PRO:HG2	3:D:80:VAL:HG23	1.91	0.51
3:D:154:THR:HG22	3:D:155:ASP:N	2.25	0.51
3:D:441:ARG:O	3:D:443:VAL:N	2.39	0.51
3:D:445:ARG:H	3:D:445:ARG:HD2	1.75	0.51
3:D:1222:GLY:O	3:D:1225:ALA:HB3	2.10	0.51
2:M:48:PHE:O	2:M:49:ARG:C	2.54	0.51
2:M:455:LEU:CD1	2:M:455:LEU:C	2.83	0.51
2:M:726:ILE:HD11	2:M:754:ILE:HG21	1.91	0.51
2:M:1045:ALA:HA	3:N:758:GLU:HB3	1.92	0.51
3:N:84:ILE:C	3:N:86:ARG:N	2.67	0.51
3:N:127:LEU:HD12	3:N:128:TYR:N	2.26	0.51
3:N:162:ARG:HB2	3:N:434:ARG:NH2	2.26	0.51
3:N:625:TYR:HB3	3:N:749:VAL:HG21	1.91	0.51
3:N:912:LYS:HB3	3:N:912:LYS:HZ3	1.75	0.51
4:O:54:LEU:HG	4:O:58:PRO:CB	2.40	0.51
1:B:106:PRO:HG3	1:B:134:GLU:CD	2.35	0.51
1:B:201:THR:HG21	1:B:205:VAL:O	2.09	0.51
2:C:48:PHE:O	2:C:51:THR:N	2.43	0.51
2:C:278:GLU:O	2:C:279:GLU:C	2.53	0.51
2:C:381:ALA:O	2:C:384:GLU:N	2.44	0.51
2:C:480:THR:HG22	2:C:481:ASP:N	2.24	0.51
2:C:1013:TYR:HE1	2:C:1020:PRO:HG3	1.76	0.51
3:D:25:GLU:HB2	3:D:92:HIS:NE2	2.26	0.51
3:D:223:LEU:CA	3:D:365:ASP:HB2	2.40	0.51
3:D:500:ARG:HH22	3:D:1388:ARG:CZ	2.23	0.51
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.91	0.51
3:D:834:THR:HG22	3:D:838:ARG:HB2	1.91	0.51
3:D:984:THR:HG22	3:D:987:GLU:CB	2.39	0.51
3:D:1270:ALA:O	3:D:1271:LYS:C	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1304:LYS:O	3:D:1304:LYS:HG2	2.10	0.51
3:D:1376:MET:HE3	3:D:1421:LEU:HA	1.92	0.51
4:E:46:PRO:CB	4:E:54:LEU:HD22	2.37	0.51
5:F:272:SER:O	5:F:275:ALA:HB3	2.11	0.51
5:F:411:HIS:CE1	5:F:412:GLU:HG2	2.45	0.51
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.45	0.51
2:M:86:LYS:C	2:M:88:LEU:H	2.18	0.51
2:M:122:THR:O	2:M:123:GLU:C	2.53	0.51
2:M:157:ARG:NH1	2:M:314:THR:O	2.43	0.51
2:M:736:ASP:C	2:M:738:ASP:H	2.18	0.51
2:M:1099:VAL:HG23	2:M:1099:VAL:O	2.11	0.51
3:N:149:LYS:HG2	3:N:150:ARG:H	1.76	0.51
3:N:456:MET:HG2	3:N:456:MET:O	2.11	0.51
3:N:633:VAL:N	3:N:740:PHE:CE2	2.79	0.51
1:A:108:GLU:O	1:A:110:LYS:HG3	2.10	0.51
1:B:106:PRO:HG3	1:B:134:GLU:OE1	2.11	0.51
2:C:148:PHE:HB3	2:C:313:LEU:HD22	1.92	0.51
2:C:462:ASP:CG	2:C:463:GLU:N	2.67	0.51
2:C:517:ARG:O	2:C:518:LYS:C	2.54	0.51
2:C:693:GLU:O	2:C:697:ARG:HG2	2.10	0.51
2:C:787:ASP:OD2	2:C:791:ARG:NH2	2.42	0.51
3:D:36:THR:C	3:D:38:LYS:H	2.19	0.51
3:D:396:VAL:CG2	3:D:447:VAL:HG12	2.37	0.51
3:D:541:ASN:O	3:D:545:ARG:HG3	2.10	0.51
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.40	0.51
3:D:601:ARG:HH22	3:D:611:GLN:CD	2.19	0.51
3:D:624:ASP:HB3	3:D:625:TYR:CE1	2.46	0.51
3:D:662:GLU:OE1	3:D:663:GLU:N	2.44	0.51
3:D:992:ILE:O	3:D:995:LEU:N	2.44	0.51
4:E:48:MET:HG2	4:E:49:GLN:H	1.75	0.51
1:K:201:THR:HG22	1:K:202:ASP:N	2.25	0.51
2:M:418:LEU:HD22	2:M:418:LEU:N	2.26	0.51
2:M:499:ALA:C	2:M:501:THR:H	2.18	0.51
2:M:591:SER:O	2:M:593:ALA:N	2.37	0.51
2:M:755:LEU:C	2:M:756:VAL:HG23	2.36	0.51
2:M:987:ILE:HD13	2:M:987:ILE:N	2.25	0.51
3:N:127:LEU:HD12	3:N:127:LEU:C	2.35	0.51
3:N:249:TYR:O	3:N:250:LEU:HD12	2.09	0.51
3:N:850:LEU:HD12	3:N:850:LEU:N	2.26	0.51
3:N:1031:ASN:HD22	3:N:1032:PRO:HD2	1.75	0.51
3:N:1113:GLY:O	3:N:1114:THR:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:127:LEU:HG	1:A:127:LEU:O	2.09	0.51
1:A:162:ILE:HG13	1:A:163:ASN:N	2.26	0.51
1:B:14:ARG:HH11	1:B:14:ARG:HG3	1.76	0.51
2:C:551:GLU:HB3	2:C:906:PHE:CE2	2.45	0.51
2:C:927:GLY:HA2	2:C:930:LYS:HE2	1.92	0.51
3:D:58:CYS:SG	3:D:59:ALA:N	2.84	0.51
3:D:423:ASP:O	3:D:424:GLY:C	2.54	0.51
3:D:550:ARG:NH1	3:D:573:MET:HB3	2.26	0.51
3:D:567:ILE:HG22	3:D:571:LYS:NZ	2.25	0.51
3:D:629:SER:HB3	3:D:726:ILE:CD1	2.39	0.51
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.46	0.51
3:D:755:ALA:O	3:D:756:GLN:C	2.54	0.51
3:D:976:GLN:C	3:D:978:TYR:H	2.17	0.51
3:D:1412:LYS:HG3	3:D:1414:PRO:HD3	1.92	0.51
5:F:161:GLN:O	5:F:164:LYS:HG2	2.11	0.51
1:K:93:SER:OG	1:K:94:LEU:HD12	2.11	0.51
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.91	0.51
2:M:139:GLN:HB3	2:M:334:ARG:HG3	1.92	0.51
2:M:176:VAL:HG12	2:M:182:VAL:CG1	2.32	0.51
2:M:442:GLU:HG2	2:M:454:SER:CB	2.41	0.51
2:M:588:VAL:O	2:M:591:SER:O	2.28	0.51
2:M:728:HIS:C	2:M:729:LEU:HD22	2.35	0.51
2:M:874:LEU:C	2:M:876:VAL:H	2.18	0.51
2:M:1051:GLU:OE2	3:N:752:SER:CB	2.59	0.51
2:M:1066:ALA:O	2:M:1067:TYR:C	2.52	0.51
3:N:44:LEU:CB	3:N:525:ARG:NH2	2.55	0.51
3:N:139:GLY:HA3	3:N:452:ILE:CD1	2.40	0.51
3:N:150:ARG:HH12	3:N:464:LEU:HD22	1.75	0.51
3:N:240:GLU:C	3:N:242:LEU:H	2.19	0.51
3:N:538:SER:N	5:P:317:LEU:HD12	2.26	0.51
3:N:790:TYR:O	3:N:791:TYR:C	2.54	0.51
5:P:264:MET:O	5:P:267:THR:HB	2.10	0.51
5:P:316:SER:HG	5:P:318:GLU:HG3	1.71	0.51
2:C:42:VAL:HG12	2:C:43:GLY:N	2.25	0.51
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.11	0.51
2:C:568:ALA:HB1	2:C:668:LEU:HB3	1.93	0.51
3:D:123:LEU:O	3:D:126:VAL:HB	2.11	0.51
3:D:148:GLU:HA	3:D:151:GLN:HE21	1.76	0.51
3:D:670:VAL:O	3:D:672:ALA:N	2.43	0.51
3:D:1229:ILE:O	3:D:1229:ILE:HG22	2.09	0.51
3:D:1487:VAL:O	4:E:73:LEU:HD23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:189:ARG:HH12	1:L:155:LYS:NZ	2.09	0.51
1:K:224:TYR:CG	1:L:9:PRO:HD2	2.46	0.51
2:M:15:LEU:H	2:M:15:LEU:CD1	2.15	0.51
2:M:349:ALA:O	2:M:353:ARG:HG3	2.11	0.51
2:M:610:ARG:HD3	2:M:622:GLU:OE1	2.11	0.51
2:M:673:LEU:HD21	2:M:895:TYR:CZ	2.45	0.51
2:M:971:LYS:HB3	2:M:986:PRO:O	2.11	0.51
2:M:1008:ARG:NH1	3:N:624:ASP:OD1	2.41	0.51
3:N:115:LEU:CD1	3:N:498:VAL:HG23	2.40	0.51
3:N:231:VAL:CG1	3:N:378:ILE:HG23	2.41	0.51
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.76	0.51
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.93	0.51
3:N:603:LEU:O	3:N:606:ILE:HB	2.11	0.51
3:N:999:THR:O	3:N:1002:LYS:HB2	2.11	0.51
3:N:1043:GLY:HA2	3:N:1057:VAL:H	1.76	0.51
5:P:402:ASN:O	5:P:406:ARG:HD2	2.11	0.51
1:B:100:LEU:CD1	1:B:115:LEU:HD21	2.37	0.51
2:C:113:VAL:O	2:C:115:LEU:HD23	2.10	0.51
2:C:127:PHE:CD1	2:C:386:PHE:CE2	2.95	0.51
2:C:145:GLY:N	2:C:163:ILE:HG23	2.25	0.51
2:C:431:HIS:HD2	2:C:432:ARG:N	2.08	0.51
2:C:484:VAL:O	2:C:486:MET:HG3	2.11	0.51
2:C:838:LYS:C	2:C:839:LEU:HD23	2.36	0.51
2:C:885:ILE:HD12	3:D:949:ILE:O	2.11	0.51
3:D:542:ASP:O	3:D:546:ARG:CG	2.59	0.51
3:D:936:TYR:HE2	3:D:940:THR:HG21	1.76	0.51
3:D:1341:PRO:O	3:D:1342:GLU:C	2.54	0.51
3:D:1457:ASP:O	3:D:1457:ASP:OD1	2.29	0.51
3:D:1457:ASP:O	3:D:1458:GLU:C	2.53	0.51
5:F:192:LEU:O	5:F:196:VAL:HG23	2.10	0.51
5:F:354:LEU:CD2	5:F:418:LEU:HD21	2.41	0.51
2:M:226:VAL:HG13	2:M:227:PHE:CD1	2.45	0.51
2:M:511:GLU:O	2:M:526:PRO:HD3	2.11	0.51
2:M:714:ASP:N	2:M:818:GLY:O	2.44	0.51
2:M:1008:ARG:HD2	2:M:1027:PHE:O	2.10	0.51
3:N:152:LEU:HD23	3:N:152:LEU:H	1.76	0.51
3:N:404:GLU:CD	3:N:414:ARG:CZ	2.84	0.51
3:N:470:LEU:O	3:N:471:GLU:C	2.54	0.51
3:N:673:ALA:O	3:N:676:MET:HB3	2.10	0.51
5:P:138:SER:HB2	5:P:140:ARG:HG2	1.92	0.51
5:P:260:ILE:HD11	5:P:264:MET:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:362:SER:O	5:P:363:GLU:C	2.54	0.51
1:B:85:LEU:HD12	1:B:124:ASN:CB	2.41	0.50
1:B:217:ILE:O	1:B:221:HIS:HB2	2.12	0.50
2:C:164:PRO:HB2	2:C:169:GLY:HA3	1.92	0.50
2:C:493:ARG:HB3	2:C:494:TYR:CE2	2.46	0.50
2:C:853:LEU:HB3	2:C:858:MET:CE	2.41	0.50
2:C:1021:LEU:HD21	5:F:332:PHE:HA	1.92	0.50
3:D:182:GLY:O	3:D:183:GLU:C	2.54	0.50
3:D:218:LYS:HG3	3:D:370:ALA:CB	2.40	0.50
3:D:240:GLU:O	3:D:244:GLU:N	2.45	0.50
3:D:378:ILE:H	3:D:378:ILE:CD1	2.10	0.50
3:D:522:PRO:HA	3:D:525:ARG:NH1	2.26	0.50
3:D:1441:GLN:NE2	3:D:1441:GLN:CA	2.72	0.50
5:F:405:LEU:O	5:F:408:LEU:HB3	2.11	0.50
1:K:113:ASP:OD2	1:K:113:ASP:N	2.44	0.50
1:K:206:THR:HG23	1:K:207:PRO:N	2.24	0.50
2:M:113:VAL:O	2:M:115:LEU:N	2.44	0.50
2:M:537:LYS:NZ	2:M:537:LYS:CB	2.75	0.50
3:N:56:TYR:CZ	3:N:66:GLN:HG3	2.45	0.50
3:N:545:ARG:NH1	3:N:545:ARG:HB2	2.26	0.50
3:N:1058:ARG:HH11	3:N:1058:ARG:CG	2.23	0.50
1:A:13:VAL:CG1	1:A:14:ARG:N	2.74	0.50
2:C:182:VAL:HG12	2:C:183:SER:N	2.26	0.50
2:C:183:SER:CB	2:C:190:LYS:CD	2.89	0.50
2:C:240:THR:C	2:C:242:LEU:H	2.18	0.50
2:C:432:ARG:HH21	3:D:1048:PRO:HD2	1.76	0.50
2:C:517:ARG:HH11	2:C:517:ARG:HG3	1.76	0.50
2:C:855:VAL:CG1	2:C:856:GLU:N	2.74	0.50
2:C:1040:LEU:HD21	2:C:1048:THR:HG22	1.93	0.50
2:C:1059:ASP:O	2:C:1063:ARG:HG2	2.12	0.50
2:C:1102:LEU:HD23	2:C:1106:ASP:HA	1.92	0.50
3:D:400:VAL:C	3:D:402:PRO:HD3	2.36	0.50
3:D:441:ARG:HG3	3:D:442:ASN:N	2.26	0.50
3:D:525:ARG:N	3:D:526:PRO:CD	2.74	0.50
3:D:896:ALA:HA	3:D:899:LEU:HD11	1.94	0.50
3:D:1190:SER:OG	3:D:1369:GLU:OE1	2.27	0.50
5:F:158:GLU:O	5:F:161:GLN:HB2	2.11	0.50
1:L:81:ASN:CG	3:N:867:ARG:HH12	2.19	0.50
2:M:74:GLY:O	2:M:76:PRO:HD3	2.10	0.50
2:M:575:GLN:O	2:M:667:ALA:HB1	2.10	0.50
2:M:679:PHE:C	2:M:681:GLY:N	2.68	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1039:ALA:HB3	3:N:713:ILE:HD12	1.94	0.50
3:N:84:ILE:O	3:N:86:ARG:N	2.45	0.50
3:N:149:LYS:HE2	3:N:151:GLN:HE21	1.75	0.50
3:N:234:GLU:O	3:N:240:GLU:HB3	2.11	0.50
3:N:385:VAL:HG12	3:N:387:LEU:CD1	2.40	0.50
3:N:434:ARG:HD3	3:N:434:ARG:N	2.26	0.50
3:N:657:LEU:HG	3:N:661:MET:CE	2.26	0.50
3:N:685:ASP:O	3:N:686:GLU:C	2.52	0.50
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.93	0.50
3:N:1043:GLY:CA	3:N:1057:VAL:H	2.24	0.50
3:N:1372:VAL:HG13	3:N:1375:MET:HE2	1.93	0.50
5:P:298:GLY:O	5:P:303:ARG:NH1	2.43	0.50
5:P:358:LEU:C	5:P:358:LEU:HD23	2.35	0.50
5:P:408:LEU:HD23	5:P:408:LEU:C	2.36	0.50
1:A:58:ILE:HB	1:A:61:VAL:HB	1.94	0.50
1:A:216:GLU:O	1:A:217:ILE:C	2.53	0.50
1:B:112:ARG:HB3	1:B:112:ARG:NH1	2.27	0.50
1:B:180:GLN:OE1	1:B:198:ARG:NH2	2.44	0.50
2:C:71:TYR:HA	2:C:96:ALA:HB2	1.93	0.50
2:C:191:PHE:CD2	2:C:195:LEU:HD23	2.45	0.50
2:C:267:TYR:OH	2:C:342:ASP:OD1	2.28	0.50
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.47	0.50
2:C:736:ASP:C	2:C:738:ASP:N	2.68	0.50
3:D:85:VAL:HB	3:D:89:ARG:CD	2.42	0.50
3:D:139:GLY:CA	3:D:147:VAL:HG13	2.41	0.50
3:D:1019:PRO:O	3:D:1020:LEU:C	2.53	0.50
3:D:1076:GLY:HA2	3:D:1079:LYS:CD	2.41	0.50
5:F:321:ILE:HD13	5:F:322:GLY:H	1.72	0.50
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.92	0.50
1:L:167:VAL:HG12	1:L:168:ASP:O	2.10	0.50
2:M:290:LEU:HD23	2:M:290:LEU:N	2.18	0.50
2:M:483:VAL:HG12	2:M:484:VAL:N	2.26	0.50
2:M:606:VAL:O	2:M:606:VAL:HG23	2.11	0.50
2:M:606:VAL:HG11	2:M:643:VAL:O	2.12	0.50
2:M:640:ARG:HD3	2:M:642:ARG:HH22	1.74	0.50
3:N:101:HIS:CD2	3:N:103:TRP:HB2	2.47	0.50
3:N:196:VAL:HG22	3:N:204:LEU:CD2	2.39	0.50
3:N:1078:ARG:O	3:N:1079:LYS:C	2.54	0.50
3:N:1096:ARG:O	3:N:1097:LYS:C	2.54	0.50
3:N:1440:PHE:CB	3:N:1442:ASN:OD1	2.57	0.50
4:O:63:TRP:O	4:O:66:LYS:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:184:ARG:O	5:P:188:ILE:HG12	2.11	0.50
5:P:418:LEU:O	5:P:420:ASP:N	2.44	0.50
2:C:431:HIS:C	2:C:433:THR:N	2.66	0.50
2:C:670:GLN:HE22	2:C:699:PHE:HA	1.76	0.50
2:C:806:LEU:HD13	2:C:813:VAL:HG11	1.92	0.50
3:D:77:GLY:C	3:D:78:VAL:HG23	2.36	0.50
3:D:535:PHE:CD1	5:F:258:ILE:CD1	2.95	0.50
3:D:646:LYS:C	3:D:648:MET:N	2.69	0.50
3:D:710:ARG:NH1	3:D:1210:SER:OG	2.44	0.50
3:D:880:ILE:HD13	3:D:880:ILE:O	2.11	0.50
3:D:1260:ILE:C	3:D:1262:LEU:N	2.67	0.50
2:M:142:ARG:HH11	2:M:325:ILE:HG23	1.74	0.50
2:M:176:VAL:HG12	2:M:182:VAL:HG22	1.94	0.50
2:M:537:LYS:HA	2:M:905:ILE:CD1	2.38	0.50
2:M:601:GLY:HA3	2:M:615:TYR:HA	1.92	0.50
2:M:617:ASP:O	2:M:619:ARG:HG3	2.10	0.50
2:M:782:ALA:O	2:M:784:ASP:N	2.45	0.50
3:N:570:GLU:O	3:N:572:ARG:N	2.45	0.50
3:N:1008:PHE:O	3:N:1010:ASN:N	2.44	0.50
3:N:1066:THR:HG23	3:N:1069:GLU:HG3	1.94	0.50
3:N:1101:VAL:O	3:N:1101:VAL:HG22	2.11	0.50
5:P:289:GLU:CD	5:P:289:GLU:H	2.20	0.50
1:A:5:LYS:O	1:A:8:ALA:CB	2.60	0.50
1:A:92:PRO:C	1:A:94:LEU:H	2.19	0.50
1:B:201:THR:HG22	1:B:202:ASP:N	2.26	0.50
2:C:51:THR:HG22	2:C:51:THR:O	2.12	0.50
2:C:200:LEU:HD22	2:C:300:ASP:N	2.27	0.50
2:C:203:ASP:O	2:C:207:LEU:HB2	2.12	0.50
2:C:676:ILE:O	3:D:948:THR:HG22	2.10	0.50
2:C:810:ASP:HB3	2:C:813:VAL:CG2	2.39	0.50
2:C:1095:LEU:C	2:C:1097:LEU:N	2.63	0.50
3:D:179:VAL:HG11	3:D:217:LYS:NZ	2.25	0.50
3:D:1042:ARG:NH1	3:D:1061:PHE:CZ	2.79	0.50
3:D:1313:VAL:HG22	3:D:1314:LYS:N	2.25	0.50
5:F:319:THR:HG23	5:F:320:PRO:HD2	1.93	0.50
2:M:281:LEU:HD23	2:M:281:LEU:H	1.77	0.50
2:M:586:ARG:HD2	2:M:590:ASP:OD2	2.12	0.50
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.42	0.50
2:M:881:ASN:N	2:M:881:ASN:ND2	2.59	0.50
3:N:162:ARG:HG3	3:N:434:ARG:HE	1.71	0.50
3:N:404:GLU:OE2	3:N:414:ARG:CZ	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:658:LEU:O	3:N:661:MET:HB2	2.11	0.50
3:N:804:LEU:HD12	3:N:831:GLY:CA	2.40	0.50
3:N:1072:ILE:O	3:N:1075:HIS:HD2	1.95	0.50
2:C:139:GLN:O	2:C:333:ILE:HA	2.11	0.50
2:C:235:LEU:O	2:C:239:PHE:HB2	2.12	0.50
2:C:285:LEU:HD13	2:C:301:GLU:HB3	1.94	0.50
2:C:403:SER:O	2:C:407:LYS:CE	2.59	0.50
2:C:826:TYR:N	2:C:826:TYR:HD1	2.09	0.50
2:C:905:ILE:HG22	2:C:906:PHE:CG	2.47	0.50
2:C:1092:LEU:HD13	2:C:1099:VAL:CG2	2.40	0.50
3:D:371:ILE:HD12	3:D:371:ILE:C	2.36	0.50
3:D:615:ARG:O	3:D:619:LEU:HB2	2.12	0.50
3:D:646:LYS:O	3:D:647:ARG:C	2.53	0.50
3:D:649:ALA:HA	3:D:652:LEU:HD22	1.94	0.50
3:D:711:LEU:O	3:D:714:GLN:HG3	2.12	0.50
3:D:731:LEU:HD11	3:D:931:LEU:HB3	1.93	0.50
3:D:973:GLN:HA	3:D:976:GLN:OE1	2.12	0.50
3:D:1080:GLY:O	3:D:1084:THR:HG23	2.11	0.50
3:D:1425:THR:HG22	3:D:1426:LYS:N	2.26	0.50
5:F:136:LEU:HD12	5:F:137:GLY:N	2.15	0.50
5:F:263:HIS:C	5:F:265:VAL:H	2.20	0.50
1:K:182:GLU:C	2:M:938:LYS:HZ2	2.20	0.50
2:M:41:ASN:HA	2:M:45:GLN:OE1	2.12	0.50
2:M:355:VAL:HG23	2:M:372:LEU:HA	1.94	0.50
3:N:112:ILE:HG22	3:N:512:MET:CE	2.42	0.50
3:N:131:LYS:O	3:N:131:LYS:HG2	2.12	0.50
3:N:131:LYS:CE	3:N:456:MET:HE2	2.42	0.50
3:N:815:ALA:C	3:N:817:GLU:H	2.19	0.50
3:N:1389:LEU:H	3:N:1389:LEU:CD2	2.13	0.50
5:P:284:ARG:O	5:P:286:PRO:HD3	2.12	0.50
2:C:17:PRO:O	2:C:19:THR:N	2.45	0.50
2:C:243:ARG:HH11	2:C:243:ARG:HG2	1.77	0.50
2:C:824:ARG:HB3	2:C:826:TYR:HE1	1.76	0.50
3:D:19:ARG:O	3:D:20:SER:C	2.54	0.50
3:D:603:LEU:O	3:D:606:ILE:HG13	2.12	0.50
3:D:993:LEU:O	3:D:994:GLN:C	2.53	0.50
3:D:1357:ARG:C	3:D:1359:GLN:N	2.66	0.50
3:D:1394:VAL:HG21	3:D:1397:LYS:HE2	1.93	0.50
3:D:1490:LYS:HD2	4:E:93:TYR:OH	2.11	0.50
5:F:221:ILE:C	5:F:223:ALA:H	2.20	0.50
1:K:38:ASN:O	1:K:39:PRO:C	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:72:LYS:HA	2:M:607:ASP:O	2.11	0.50
1:L:58:ILE:HG22	1:L:59:GLU:HG2	1.93	0.50
1:L:117:VAL:HB	1:L:120:VAL:HB	1.94	0.50
2:M:379:GLU:O	2:M:383:ARG:HB3	2.12	0.50
2:M:474:VAL:HG22	2:M:476:GLY:O	2.12	0.50
2:M:737:LEU:HA	2:M:743:VAL:HA	1.93	0.50
2:M:833:LEU:HD13	2:M:996:LYS:HD2	1.94	0.50
3:N:45:PHE:CD1	3:N:522:PRO:HB3	2.47	0.50
3:N:128:TYR:HE1	3:N:461:ILE:HG13	1.76	0.50
3:N:394:LEU:HD12	3:N:394:LEU:N	2.26	0.50
3:N:428:LYS:NZ	5:P:138:SER:OG	2.45	0.50
3:N:914:LEU:O	3:N:918:ALA:HB2	2.12	0.50
1:A:206:THR:HB	1:A:209:GLU:CB	2.41	0.50
2:C:233:GLU:CD	2:C:233:GLU:C	2.79	0.50
2:C:588:VAL:HG23	2:C:596:TYR:OH	2.12	0.50
2:C:690:ILE:CG2	2:C:691:SER:N	2.75	0.50
2:C:841:ASN:C	2:C:841:ASN:HD22	2.20	0.50
2:C:1014:SER:HA	5:F:333:ILE:O	2.11	0.50
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.93	0.50
3:D:217:LYS:HE3	3:D:388:HIS:C	2.37	0.50
3:D:220:ARG:HH11	3:D:222:GLY:HA3	1.76	0.50
3:D:402:PRO:HB2	3:D:413:ASP:O	2.12	0.50
3:D:579:ASP:O	3:D:580:ALA:C	2.54	0.50
3:D:826:PRO:O	3:D:836:VAL:HG11	2.11	0.50
3:D:858:VAL:HG12	3:D:862:ASP:HB3	1.94	0.50
3:D:1086:LEU:HD22	6:D:1525:STD:C11	2.40	0.50
3:D:1155:VAL:HG21	3:D:1183:ILE:CD1	2.41	0.50
4:E:26:ARG:O	4:E:29:GLN:HG2	2.10	0.50
1:K:32:PHE:O	1:K:33:GLY:C	2.53	0.50
1:L:173:PRO:HB3	1:L:202:ASP:OD1	2.12	0.50
2:M:41:ASN:O	2:M:46:ALA:HB2	2.11	0.50
2:M:244:PRO:HG2	2:M:245:GLY:H	1.76	0.50
2:M:1086:ARG:O	2:M:1087:VAL:C	2.54	0.50
2:M:1115:LEU:HD13	3:N:85:VAL:CG1	2.41	0.50
3:N:54:LYS:HZ3	3:N:57:GLU:CD	2.19	0.50
3:N:131:LYS:HE3	3:N:568:ARG:HG2	1.94	0.50
3:N:423:ASP:N	5:P:178:ARG:HE	2.10	0.50
3:N:1346:ARG:HG3	3:N:1346:ARG:HH11	1.77	0.50
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.41	0.50
2:C:139:GLN:O	2:C:334:ARG:N	2.40	0.50
2:C:313:LEU:HD13	2:C:321:GLU:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:338:GLU:HA	2:C:341:THR:CG2	2.42	0.50
2:C:437:ARG:NH2	2:C:488:ALA:HA	2.27	0.50
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.36	0.50
3:D:93:ILE:O	3:D:95:LEU:HD12	2.11	0.50
3:D:98:PRO:HG2	3:D:462:GLN:NE2	2.20	0.50
3:D:609:GLY:C	3:D:611:GLN:H	2.20	0.50
3:D:613:ARG:HG3	3:D:613:ARG:NH1	2.25	0.50
3:D:728:LEU:HD12	3:D:729:HIS:N	2.25	0.50
3:D:796:ARG:HD2	3:D:861:GLN:O	2.11	0.50
3:D:1114:THR:O	3:D:1116:ASN:N	2.44	0.50
3:D:1495:ILE:HG23	3:D:1499:ARG:NH2	2.24	0.50
5:F:131:VAL:HG13	5:F:178:ARG:HD3	1.94	0.50
2:M:345:ARG:C	2:M:347:GLY:N	2.68	0.50
2:M:768:THR:CB	2:M:771:GLU:HB3	2.42	0.50
2:M:1058:ASP:O	2:M:1060:ILE:N	2.45	0.50
3:N:658:LEU:HD11	3:N:674:ARG:HH11	1.76	0.50
3:N:665:GLY:O	3:N:667:ALA:N	2.45	0.50
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.33	0.50
3:N:773:ALA:O	3:N:774:SER:CB	2.60	0.50
3:N:935:LYS:HG2	3:N:939:PHE:HE1	1.72	0.50
4:O:9:LEU:HD21	4:O:69:LEU:HG	1.93	0.50
2:C:35:PRO:C	2:C:37:GLU:H	2.20	0.49
2:C:966:LEU:HD21	2:C:986:PRO:CG	2.30	0.49
3:D:172:PRO:CA	3:D:178:LEU:HD12	2.42	0.49
3:D:568:ARG:O	3:D:571:LYS:N	2.45	0.49
3:D:703:ASN:ND2	3:D:704:ARG:N	2.60	0.49
3:D:765:SER:OG	3:D:766:ALA:N	2.45	0.49
5:F:158:GLU:HA	5:F:161:GLN:CD	2.37	0.49
1:L:7:LYS:O	1:L:7:LYS:HG2	2.10	0.49
1:L:80:LEU:HD13	3:N:842:VAL:HG12	1.94	0.49
1:L:142:VAL:HG23	1:L:142:VAL:O	2.12	0.49
2:M:89:THR:O	2:M:91:GLN:N	2.45	0.49
2:M:338:GLU:HG2	2:M:342:ASP:OD2	2.12	0.49
2:M:433:THR:C	2:M:435:TYR:H	2.20	0.49
2:M:483:VAL:HG12	2:M:484:VAL:H	1.77	0.49
2:M:564:MET:HA	2:M:564:MET:CE	2.40	0.49
2:M:854:PRO:HB3	2:M:856:GLU:CD	2.37	0.49
3:N:216:VAL:CG1	3:N:221:ALA:HA	2.40	0.49
3:N:444:VAL:O	3:N:446:VAL:HG23	2.11	0.49
3:N:479:GLU:O	3:N:481:MET:N	2.45	0.49
3:N:573:MET:CE	5:P:214:GLN:HG3	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:593:ASN:O	3:N:594:PRO:O	2.30	0.49
3:N:648:MET:HE1	3:N:726:ILE:HD11	1.93	0.49
3:N:650:LEU:HG	3:N:650:LEU:O	2.11	0.49
3:N:795:VAL:HG23	3:N:879:ARG:CZ	2.42	0.49
5:P:202:TYR:CD1	5:P:247:ILE:HG21	2.47	0.49
1:A:41:ARG:HA	1:A:44:LEU:HD12	1.94	0.49
1:A:99:LEU:HB2	1:A:142:VAL:CG2	2.42	0.49
1:A:199:ILE:HD12	1:A:199:ILE:N	2.27	0.49
2:C:196:LEU:HD23	2:C:196:LEU:O	2.12	0.49
2:C:222:MET:O	2:C:223:ASP:C	2.56	0.49
2:C:431:HIS:CD2	2:C:432:ARG:N	2.80	0.49
2:C:1090:LYS:HE2	2:C:1112:PHE:CZ	2.47	0.49
2:C:1111:ILE:O	2:C:1113:GLU:N	2.45	0.49
3:D:119:SER:C	3:D:121:THR:N	2.69	0.49
3:D:140:ALA:O	3:D:141:ILE:O	2.30	0.49
3:D:565:ILE:H	3:D:565:ILE:CD1	2.03	0.49
3:D:598:ARG:HD2	3:D:599:PRO:CD	2.40	0.49
3:D:888:GLU:O	3:D:889:ALA:C	2.54	0.49
3:D:959:GLU:O	3:D:963:TYR:CD1	2.65	0.49
1:L:86:VAL:CG1	1:L:124:ASN:HB2	2.42	0.49
1:L:176:ARG:H	1:L:200:TRP:CB	2.24	0.49
2:M:229:MET:C	2:M:230:ARG:HD3	2.37	0.49
2:M:418:LEU:O	2:M:419:THR:O	2.30	0.49
2:M:421:GLU:O	2:M:422:ARG:HB2	2.12	0.49
2:M:517:ARG:HG3	2:M:517:ARG:HH11	1.77	0.49
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.28	0.49
3:N:479:GLU:HA	3:N:483:HIS:NE2	2.28	0.49
3:N:764:LEU:CD2	3:N:766:ALA:HB3	2.42	0.49
3:N:800:LYS:HB2	3:N:829:VAL:HG12	1.93	0.49
3:N:838:ARG:HE	3:N:874:GLU:CD	2.20	0.49
4:O:79:LEU:O	4:O:79:LEU:HD13	2.12	0.49
5:P:272:SER:O	5:P:275:ALA:N	2.44	0.49
5:P:418:LEU:N	5:P:418:LEU:HD12	2.27	0.49
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.75	0.49
1:B:143:ARG:HG2	1:B:145:ASP:OD1	2.13	0.49
2:C:185:LYS:HE3	2:C:185:LYS:N	2.25	0.49
2:C:438:ILE:HA	2:C:455:LEU:HA	1.93	0.49
2:C:491:GLU:O	2:C:493:ARG:N	2.46	0.49
2:C:607:ASP:O	2:C:610:ARG:N	2.45	0.49
3:D:91:GLY:O	3:D:519:VAL:N	2.45	0.49
3:D:560:GLN:NE2	5:F:218:GLN:HE22	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.95	0.49
3:D:783:ARG:HH21	3:D:1029:ARG:HG3	1.77	0.49
3:D:868:TYR:O	3:D:869:MET:C	2.52	0.49
3:D:1282:ARG:HH12	3:D:1293:PHE:HD2	1.61	0.49
3:D:1457:ASP:OD1	3:D:1459:LEU:HD23	2.11	0.49
5:F:94:LEU:HD12	5:F:96:LEU:H	1.74	0.49
5:F:262:VAL:O	5:F:265:VAL:HB	2.12	0.49
1:K:212:ASN:O	1:K:215:VAL:HG22	2.12	0.49
1:L:15:THR:C	1:L:16:GLN:OE1	2.55	0.49
1:L:30:ARG:HH22	2:M:692:GLU:CD	2.18	0.49
1:L:86:VAL:HG12	1:L:124:ASN:HB2	1.93	0.49
2:M:114:PHE:CZ	5:P:283:GLY:C	2.89	0.49
2:M:129:ILE:N	2:M:129:ILE:CD1	2.75	0.49
2:M:486:MET:HE3	2:M:491:GLU:CB	2.42	0.49
2:M:523:ILE:C	2:M:523:ILE:CD1	2.84	0.49
2:M:899:GLN:HG3	2:M:901:TYR:CZ	2.47	0.49
2:M:923:GLU:O	2:M:927:GLY:HA3	2.12	0.49
2:M:1000:MET:HE3	2:M:1001:VAL:HG22	1.93	0.49
2:M:1047:HIS:O	2:M:1050:GLN:CB	2.57	0.49
3:N:30:GLU:HG3	3:N:41:ARG:HE	1.77	0.49
3:N:225:LEU:C	3:N:227:LEU:HD22	2.37	0.49
3:N:434:ARG:HG2	3:N:447:VAL:CG2	2.42	0.49
3:N:598:ARG:HH22	5:P:318:GLU:HG3	1.77	0.49
3:N:792:ILE:HG23	3:N:793:THR:HG23	1.94	0.49
3:N:895:VAL:HG11	3:N:922:LEU:HD21	1.94	0.49
3:N:1397:LYS:NZ	3:N:1432:LYS:HB3	2.26	0.49
3:N:1447:LEU:O	3:N:1448:THR:C	2.55	0.49
5:P:156:VAL:HG13	5:P:157:GLU:H	1.77	0.49
1:B:78:ILE:C	1:B:80:LEU:N	2.71	0.49
1:B:211:LEU:O	1:B:214:ALA:HB3	2.12	0.49
2:C:49:ARG:HH11	2:C:49:ARG:CA	2.25	0.49
2:C:602:GLU:HB3	2:C:614:ARG:CB	2.40	0.49
2:C:691:SER:N	2:C:868:ASP:O	2.46	0.49
2:C:697:ARG:O	2:C:698:ASP:C	2.53	0.49
2:C:789:SER:HB2	2:C:791:ARG:HE	1.77	0.49
2:C:1005:MET:HE1	3:D:645:PRO:CG	2.42	0.49
2:C:1059:ASP:OD2	2:C:1080:SER:HB2	2.12	0.49
3:D:118:LEU:O	3:D:120:ALA:N	2.45	0.49
3:D:122:GLU:O	3:D:122:GLU:OE1	2.31	0.49
3:D:433:GLY:N	3:D:448:GLU:HA	2.26	0.49
3:D:503:LEU:O	3:D:504:ASP:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:567:ILE:HG22	3:D:571:LYS:HZ1	1.77	0.49
3:D:575:GLN:O	3:D:579:ASP:OD1	2.30	0.49
3:D:699:VAL:HG12	3:D:717:GLN:CB	2.42	0.49
3:D:911:LEU:O	3:D:914:LEU:N	2.46	0.49
3:D:1014:ASN:O	3:D:1015:TYR:HD1	1.96	0.49
3:D:1047:LYS:HB2	3:D:1049:SER:OG	2.12	0.49
3:D:1145:TYR:CD2	3:D:1145:TYR:C	2.89	0.49
3:D:1373:ARG:CG	3:D:1374:GLN:HE21	2.25	0.49
4:E:44:GLU:O	4:E:45:ARG:HD3	2.13	0.49
5:F:243:ILE:O	5:F:247:ILE:HG13	2.12	0.49
1:K:73:GLU:OE1	1:K:130:ALA:HA	2.13	0.49
1:L:32:PHE:C	1:L:34:VAL:N	2.67	0.49
2:M:147:TYR:CE2	2:M:276:LYS:HD3	2.48	0.49
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.27	0.49
3:N:131:LYS:HB2	3:N:572:ARG:HH21	1.77	0.49
3:N:628:ARG:HA	3:N:745:MET:O	2.13	0.49
3:N:658:LEU:HD23	3:N:661:MET:CE	2.43	0.49
3:N:1107:VAL:HG12	3:N:1217:ILE:HA	1.93	0.49
3:N:1438:ALA:O	3:N:1440:PHE:N	2.45	0.49
3:N:1500:LYS:O	3:N:1503:VAL:HG23	2.13	0.49
5:P:346:THR:O	5:P:348:SER:N	2.45	0.49
1:A:53:VAL:HG21	1:A:82:LEU:HB3	1.95	0.49
1:B:167:VAL:HG12	1:B:168:ASP:H	1.77	0.49
2:C:140:ILE:HG21	2:C:331:ARG:NH1	2.28	0.49
2:C:424:GLY:O	2:C:425:PHE:C	2.54	0.49
2:C:589:ARG:HD3	2:C:596:TYR:CE2	2.47	0.49
2:C:860:HIS:CE1	2:C:977:GLY:HA2	2.46	0.49
2:C:892:LEU:HD12	2:C:892:LEU:O	2.12	0.49
3:D:135:LEU:HD23	3:D:136:ASP:O	2.12	0.49
3:D:245:LEU:CD1	3:D:366:LYS:HE2	2.43	0.49
3:D:543:LEU:O	3:D:546:ARG:HB2	2.13	0.49
3:D:806:PHE:CD1	3:D:812:ALA:HB3	2.48	0.49
1:L:112:ARG:CZ	1:L:112:ARG:HB3	2.43	0.49
2:M:167:LYS:HZ3	2:M:168:ARG:HH21	1.61	0.49
2:M:374:ASN:O	2:M:377:PRO:HD2	2.12	0.49
3:N:13:ALA:HB1	3:N:18:ILE:CD1	2.41	0.49
3:N:385:VAL:HG12	3:N:387:LEU:HD12	1.94	0.49
3:N:535:PHE:O	5:P:314:PRO:CA	2.60	0.49
3:N:691:LEU:C	3:N:693:GLU:N	2.69	0.49
3:N:769:LEU:N	3:N:769:LEU:CD1	2.76	0.49
3:N:913:ASP:O	3:N:914:LEU:C	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:988:ARG:NH1	3:N:992:ILE:HD11	2.27	0.49
3:N:1090:ASP:O	3:N:1091:SER:C	2.54	0.49
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.48	0.49
3:N:1320:GLU:HG3	3:N:1323:GLN:NE2	2.27	0.49
3:N:1365:ASP:O	3:N:1366:LYS:C	2.55	0.49
4:O:6:ILE:HG23	4:O:7:ASP:N	2.27	0.49
2:C:69:LEU:HB2	2:C:97:ARG:O	2.13	0.49
2:C:443:THR:HG23	2:C:444:PRO:CD	2.41	0.49
2:C:497:ALA:HA	2:C:515:ALA:HA	1.93	0.49
2:C:544:THR:HA	2:C:547:ILE:CD1	2.42	0.49
2:C:580:MET:O	2:C:902:ILE:HG23	2.13	0.49
2:C:625:LEU:O	2:C:626:ARG:C	2.55	0.49
2:C:787:ASP:CG	2:C:791:ARG:HH21	2.20	0.49
2:C:882:LEU:HD11	3:D:1038:LEU:HD22	1.93	0.49
3:D:12:LEU:HD21	3:D:104:PHE:HE1	1.78	0.49
3:D:177:ALA:O	3:D:199:LEU:HD13	2.12	0.49
3:D:656:PHE:HE1	3:D:751:LEU:HD23	1.78	0.49
3:D:699:VAL:HA	3:D:717:GLN:HA	1.95	0.49
3:D:731:LEU:CD1	3:D:931:LEU:HB3	2.43	0.49
3:D:1118:ILE:HD11	3:D:1346:ARG:NH1	2.27	0.49
5:F:367:MET:HA	5:F:370:LYS:HB3	1.95	0.49
2:M:135:VAL:HG11	2:M:406:HIS:HD1	1.75	0.49
2:M:197:LEU:HD13	2:M:207:LEU:CD1	2.43	0.49
2:M:358:ARG:HH22	2:M:374:ASN:CG	2.20	0.49
2:M:478:VAL:HG13	2:M:506:ASN:CB	2.32	0.49
2:M:551:GLU:CG	2:M:906:PHE:HA	2.42	0.49
3:N:35:ARG:CB	3:N:35:ARG:HH11	2.25	0.49
3:N:661:MET:SD	3:N:673:ALA:HB1	2.52	0.49
3:N:1042:ARG:HH12	3:N:1045:MET:HE1	1.77	0.49
3:N:1435:LEU:O	3:N:1437:ALA:N	2.46	0.49
4:O:7:ASP:O	4:O:10:PHE:HB2	2.13	0.49
5:P:77:THR:CA	5:P:80:PRO:HD2	2.42	0.49
5:P:198:ILE:HD11	5:P:240:THR:HG23	1.94	0.49
1:B:23:PHE:CD2	1:B:211:LEU:HD22	2.48	0.49
1:B:54:THR:O	1:B:167:VAL:HB	2.12	0.49
1:B:213:GLN:O	1:B:217:ILE:HG13	2.13	0.49
2:C:24:GLU:O	2:C:27:ARG:HB3	2.13	0.49
2:C:283:ILE:HG22	2:C:284:ARG:HG3	1.93	0.49
2:C:631:SER:O	2:C:632:ASN:C	2.56	0.49
2:C:651:LYS:HG3	2:C:652:GLY:N	2.28	0.49
2:C:928:LYS:O	2:C:931:GLY:N	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:89:ARG:HG2	3:D:89:ARG:HH11	1.77	0.49
3:D:122:GLU:O	3:D:126:VAL:HG23	2.12	0.49
3:D:890:VAL:HG12	3:D:926:LYS:HG2	1.94	0.49
3:D:965:GLU:HG3	3:D:969:ARG:NH2	2.27	0.49
3:D:1281:VAL:HB	3:D:1316:GLY:H	1.78	0.49
5:F:161:GLN:CA	5:F:164:LYS:HE2	2.21	0.49
5:F:316:SER:OG	5:F:318:GLU:HG2	2.13	0.49
1:L:201:THR:C	1:L:203:GLY:H	2.20	0.49
2:M:176:VAL:C	2:M:178:PRO:HD3	2.37	0.49
2:M:1072:LYS:C	3:N:659:LYS:NZ	2.71	0.49
2:M:1099:VAL:HA	3:N:9:ARG:O	2.12	0.49
3:N:434:ARG:HD3	3:N:434:ARG:H	1.77	0.49
3:N:434:ARG:CD	3:N:434:ARG:H	2.24	0.49
3:N:790:TYR:HD2	3:N:906:GLN:O	1.95	0.49
1:A:182:GLU:OE2	2:C:935:GLY:N	2.43	0.49
2:C:148:PHE:CE1	2:C:309:TYR:HD2	2.31	0.49
2:C:751:PRO:CG	2:C:796:GLU:HA	2.42	0.49
2:C:840:ALA:HB2	2:C:846:LYS:HA	1.93	0.49
2:C:841:ASN:ND2	2:C:845:ASN:H	2.03	0.49
3:D:112:ILE:O	3:D:116:LEU:HB2	2.13	0.49
3:D:119:SER:H	3:D:123:LEU:CD1	2.26	0.49
3:D:131:LYS:HD3	5:F:83:GLN:CD	2.38	0.49
3:D:191:LEU:HD12	3:D:211:VAL:CG2	2.37	0.49
3:D:217:LYS:CE	3:D:389:GLU:HB3	2.42	0.49
3:D:465:LEU:HD13	3:D:509:PRO:O	2.12	0.49
3:D:707:THR:C	3:D:708:LEU:HD23	2.38	0.49
3:D:716:PHE:N	3:D:716:PHE:CD1	2.80	0.49
3:D:860:LEU:HD22	3:D:878:GLY:HA2	1.95	0.49
3:D:1107:VAL:HB	3:D:1219:GLU:H	1.77	0.49
5:F:154:LYS:O	5:F:158:GLU:CG	2.54	0.49
5:F:350:LEU:HD13	5:F:422:LEU:HB2	1.95	0.49
1:K:214:ALA:O	1:K:215:VAL:C	2.54	0.49
2:M:72:ARG:HG3	2:M:72:ARG:NH1	2.27	0.49
2:M:259:GLY:HA2	2:M:290:LEU:O	2.13	0.49
2:M:336:VAL:HA	2:M:339:LEU:HB2	1.94	0.49
2:M:398:THR:CG2	2:M:635:THR:HG21	2.43	0.49
2:M:537:LYS:NZ	2:M:537:LYS:HB2	2.28	0.49
2:M:537:LYS:N	2:M:905:ILE:HD11	2.28	0.49
2:M:1085:PHE:CD2	2:M:1088:LEU:HD23	2.47	0.49
3:N:55:ASP:HB3	3:N:82:LYS:HE2	1.95	0.49
3:N:76:CYS:O	3:N:78:VAL:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:119:SER:C	3:N:121:THR:N	2.71	0.49
3:N:753:SER:O	3:N:754:PHE:C	2.55	0.49
3:N:799:LYS:HD2	3:N:799:LYS:C	2.36	0.49
3:N:814:ALA:O	3:N:818:ARG:HG3	2.13	0.49
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.27	0.49
3:N:1128:VAL:O	3:N:1130:ARG:N	2.46	0.49
3:N:1438:ALA:C	3:N:1440:PHE:N	2.63	0.49
5:P:94:LEU:HD12	5:P:96:LEU:H	1.78	0.49
1:A:56:VAL:HG12	1:A:57:TYR:N	2.27	0.49
1:B:20:TYR:HE2	1:B:198:ARG:HB3	1.78	0.49
1:B:95:GLN:O	1:B:96:THR:HB	2.13	0.49
2:C:235:LEU:O	2:C:235:LEU:HD23	2.12	0.49
2:C:563:ASN:O	2:C:564:MET:C	2.53	0.49
2:C:1030:GLN:HB2	3:D:626:SER:CB	2.43	0.49
2:C:1089:VAL:HB	2:C:1112:PHE:HZ	1.76	0.49
3:D:19:ARG:O	3:D:22:SER:N	2.35	0.49
3:D:127:LEU:C	3:D:127:LEU:HD12	2.37	0.49
3:D:232:GLU:HB2	3:D:234:GLU:CD	2.38	0.49
3:D:486:ARG:HA	3:D:486:ARG:HE	1.78	0.49
3:D:1062:ARG:O	3:D:1062:ARG:HD3	2.13	0.49
3:D:1197:ARG:C	3:D:1199:GLY:H	2.21	0.49
3:D:1277:ILE:HD11	3:D:1301:LYS:HB2	1.94	0.49
3:D:1426:LYS:HB2	3:D:1426:LYS:NZ	2.27	0.49
2:M:415:PRO:CG	2:M:418:LEU:HD23	2.42	0.49
2:M:486:MET:HE3	2:M:491:GLU:HA	1.94	0.49
2:M:572:ILE:HG13	2:M:573:ARG:N	2.27	0.49
2:M:742:VAL:HG12	2:M:743:VAL:N	2.27	0.49
2:M:775:ARG:HH11	2:M:782:ALA:HB3	1.76	0.49
2:M:925:TYR:CD2	2:M:967:PHE:CE1	3.00	0.49
3:N:82:LYS:C	3:N:84:ILE:H	2.20	0.49
3:N:245:LEU:C	3:N:245:LEU:HD13	2.37	0.49
3:N:739:ASP:O	3:N:743:ASP:OD2	2.31	0.49
3:N:862:ASP:O	3:N:876:SER:HB2	2.13	0.49
3:N:925:GLU:OE1	4:O:7:ASP:HB2	2.13	0.49
3:N:941:PHE:O	3:N:942:SER:C	2.56	0.49
3:N:1086:LEU:HG	3:N:1090:ASP:OD2	2.12	0.49
3:N:1163:GLY:O	3:N:1164:ARG:C	2.56	0.49
5:P:344:ALA:O	5:P:348:SER:HB3	2.13	0.49
5:P:416:ARG:NE	5:P:419:ARG:HD2	2.28	0.49
1:A:32:PHE:O	1:A:34:VAL:N	2.46	0.49
2:C:292:ARG:HD2	2:C:299:LYS:CD	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:455:LEU:C	2:C:455:LEU:HD12	2.38	0.49
2:C:496:ILE:O	2:C:515:ALA:CB	2.60	0.49
2:C:957:LYS:HG2	2:C:961:GLU:HB2	1.95	0.49
2:C:1102:LEU:HD13	3:D:9:ARG:CB	2.40	0.49
3:D:228:ALA:O	3:D:231:VAL:HG22	2.13	0.49
3:D:703:ASN:ND2	3:D:704:ARG:H	2.08	0.49
3:D:826:PRO:C	3:D:829:VAL:HG22	2.38	0.49
3:D:1096:ARG:CB	3:D:1096:ARG:HH11	2.26	0.49
1:K:44:LEU:C	1:K:46:SER:H	2.21	0.49
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.95	0.49
2:M:101:ILE:HG22	2:M:102:HIS:N	2.28	0.49
2:M:545:ASN:HA	2:M:905:ILE:HG21	1.95	0.49
2:M:680:ASP:OD2	3:N:943:THR:HG21	2.13	0.49
2:M:708:TYR:N	2:M:708:TYR:CD1	2.80	0.49
2:M:1030:GLN:H	3:N:626:SER:CB	2.26	0.49
5:P:181:GLU:OE1	5:P:185:GLN:HG2	2.12	0.49
2:C:41:ASN:HD22	2:C:41:ASN:H	1.61	0.48
2:C:621:VAL:HG12	2:C:622:GLU:O	2.12	0.48
2:C:701:THR:CG2	2:C:832:LYS:HA	2.43	0.48
2:C:749:VAL:HG23	2:C:749:VAL:O	2.12	0.48
2:C:841:ASN:ND2	2:C:841:ASN:H	2.09	0.48
3:D:217:LYS:HZ1	3:D:389:GLU:CB	2.26	0.48
3:D:795:VAL:CG1	3:D:796:ARG:H	2.26	0.48
3:D:853:VAL:HG11	3:D:860:LEU:HG	1.94	0.48
3:D:932:ASP:HA	3:D:935:LYS:HE2	1.94	0.48
3:D:1151:ARG:O	3:D:1152:GLU:O	2.30	0.48
3:D:1228:SER:O	3:D:1232:PRO:HD2	2.12	0.48
3:D:1372:VAL:HG22	3:D:1375:MET:HE3	1.95	0.48
3:D:1432:LYS:O	3:D:1455:LYS:NZ	2.43	0.48
5:F:107:GLU:C	5:F:109:GLY:H	2.21	0.48
2:M:18:LEU:HA	2:M:408:ARG:HH22	1.75	0.48
2:M:80:GLN:O	2:M:81:ASP:C	2.55	0.48
2:M:539:VAL:HG21	3:N:1067:VAL:CG1	2.42	0.48
2:M:544:THR:O	2:M:547:ILE:HG13	2.13	0.48
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.94	0.48
2:M:728:HIS:O	2:M:729:LEU:HD22	2.13	0.48
2:M:1101:THR:HB	3:N:5:VAL:HG22	1.94	0.48
3:N:230:TRP:C	3:N:232:GLU:H	2.21	0.48
3:N:557:LEU:O	3:N:562:ALA:HB2	2.13	0.48
3:N:657:LEU:O	3:N:658:LEU:C	2.56	0.48
3:N:804:LEU:HD12	3:N:831:GLY:HA3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:834:THR:HB	3:N:838:ARG:HB2	1.94	0.48
3:N:1042:ARG:O	3:N:1042:ARG:CG	2.60	0.48
3:N:1353:GLN:OE1	3:N:1353:GLN:HA	2.12	0.48
4:O:36:LYS:C	4:O:38:THR:N	2.71	0.48
1:A:41:ARG:NH1	1:A:177:VAL:O	2.45	0.48
2:C:8:ARG:HD3	2:C:10:ARG:NH1	2.28	0.48
2:C:144:PRO:O	2:C:276:LYS:HG2	2.13	0.48
2:C:165:LEU:HA	2:C:166:PRO:C	2.38	0.48
2:C:332:ARG:HG3	2:C:465:GLY:O	2.12	0.48
2:C:939:ARG:O	2:C:942:GLU:N	2.46	0.48
2:C:1102:LEU:HD23	2:C:1106:ASP:CA	2.43	0.48
3:D:10:ILE:HG22	3:D:11:ALA:N	2.28	0.48
3:D:95:LEU:HD12	3:D:95:LEU:N	2.28	0.48
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.48	0.48
3:D:633:VAL:HG13	3:D:635:PRO:HD3	1.95	0.48
3:D:728:LEU:HD22	3:D:745:MET:HE2	1.93	0.48
3:D:1263:PHE:O	3:D:1424:VAL:HG23	2.13	0.48
4:E:10:PHE:CZ	4:E:16:LYS:HG3	2.48	0.48
5:F:208:SER:O	5:F:212:LEU:HG	2.12	0.48
5:F:282:LEU:HD12	5:F:284:ARG:CB	2.42	0.48
1:K:82:LEU:C	1:K:84:GLU:H	2.20	0.48
1:K:143:ARG:NH2	1:K:145:ASP:OD2	2.46	0.48
1:K:202:ASP:OD2	1:K:203:GLY:N	2.45	0.48
2:M:495:THR:N	2:M:530:GLU:OE1	2.43	0.48
2:M:677:MET:CE	2:M:983:ILE:HD12	2.43	0.48
2:M:715:THR:HG22	2:M:716:LYS:N	2.27	0.48
2:M:987:ILE:HD12	3:N:948:THR:CG2	2.42	0.48
2:M:1012:PRO:O	2:M:1013:TYR:CG	2.67	0.48
2:M:1092:LEU:HD12	2:M:1092:LEU:N	2.28	0.48
3:N:127:LEU:HD22	3:N:134:VAL:CG2	2.43	0.48
3:N:177:ALA:HB1	3:N:199:LEU:CD2	2.42	0.48
3:N:187:LYS:HZ3	3:N:445:ARG:HH22	1.61	0.48
3:N:1231:GLU:C	3:N:1231:GLU:CD	2.81	0.48
5:P:369:LEU:HB3	5:P:373:LYS:CD	2.43	0.48
5:P:406:ARG:HG2	5:P:409:LYS:CE	2.43	0.48
1:A:82:LEU:C	1:A:84:GLU:H	2.21	0.48
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.95	0.48
2:C:266:ARG:HD3	2:C:288:ARG:HH11	1.78	0.48
2:C:333:ILE:HD12	2:C:333:ILE:N	2.29	0.48
2:C:408:ARG:NH1	2:C:542:VAL:HG23	2.27	0.48
2:C:972:VAL:HG23	2:C:974:LEU:HD13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:180:LYS:HE2	3:D:219:GLU:HB2	1.96	0.48
3:D:218:LYS:HG3	3:D:370:ALA:HB1	1.94	0.48
3:D:444:VAL:HG22	3:D:444:VAL:O	2.13	0.48
3:D:1484:THR:HG22	3:D:1485:GLN:H	1.76	0.48
4:E:26:ARG:NH2	4:E:39:VAL:HG13	2.29	0.48
1:K:123:MET:C	1:K:125:PRO:HD3	2.39	0.48
1:L:6:LEU:C	1:L:8:ALA:H	2.22	0.48
1:L:99:LEU:HD21	1:L:114:PHE:HB3	1.95	0.48
1:L:137:ARG:HG2	1:L:137:ARG:NH1	2.28	0.48
2:M:15:LEU:HB3	2:M:16:PRO:HD2	1.95	0.48
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.95	0.48
2:M:535:SER:O	2:M:538:GLN:HG2	2.13	0.48
2:M:705:ILE:HG12	2:M:828:ALA:HB2	1.94	0.48
2:M:737:LEU:O	2:M:738:ASP:C	2.56	0.48
2:M:775:ARG:NH1	2:M:782:ALA:HB3	2.28	0.48
2:M:1008:ARG:HH12	3:N:624:ASP:CG	2.20	0.48
2:M:1019:GLN:HE22	3:N:621:LYS:CA	2.26	0.48
2:M:1037:VAL:O	2:M:1038:TRP:C	2.56	0.48
3:N:187:LYS:HZ1	3:N:212:ARG:HG3	1.78	0.48
3:N:648:MET:O	3:N:652:LEU:HD22	2.13	0.48
3:N:774:SER:O	3:N:775:GLY:C	2.56	0.48
3:N:1451:ALA:C	3:N:1453:ALA:H	2.21	0.48
5:P:369:LEU:HA	5:P:372:ARG:HB2	1.96	0.48
1:A:147:GLY:HA3	1:A:171:PHE:CE2	2.49	0.48
1:B:153:ALA:O	1:B:156:HIS:HD2	1.97	0.48
2:C:154:ARG:C	2:C:156:GLY:N	2.71	0.48
2:C:535:SER:H	2:C:538:GLN:HE21	1.61	0.48
2:C:758:ARG:HG2	2:C:759:THR:H	1.79	0.48
2:C:1034:GLU:O	2:C:1037:VAL:N	2.46	0.48
3:D:215:TYR:O	3:D:389:GLU:HA	2.14	0.48
3:D:582:LEU:O	3:D:603:LEU:HB2	2.13	0.48
3:D:1120:VAL:HG23	3:D:1188:VAL:HG11	1.94	0.48
3:D:1481:VAL:O	3:D:1482:ARG:C	2.56	0.48
5:F:78:SER:HB2	5:F:82:ARG:HH21	1.78	0.48
5:F:136:LEU:CD1	5:F:137:GLY:N	2.76	0.48
2:M:151:ASP:H	2:M:158:TYR:HA	1.78	0.48
2:M:384:GLU:HG3	2:M:388:ARG:NE	2.28	0.48
2:M:561:GLY:O	2:M:564:MET:HB2	2.13	0.48
2:M:670:GLN:NE2	2:M:699:PHE:CG	2.81	0.48
2:M:1050:GLN:O	2:M:1051:GLU:C	2.54	0.48
3:N:622:ARG:HG2	3:N:622:ARG:HH11	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:658:LEU:HD13	3:N:674:ARG:HG2	1.94	0.48
3:N:858:VAL:CG1	3:N:859:ASP:H	2.22	0.48
3:N:1034:GLN:O	3:N:1038:LEU:CD1	2.62	0.48
3:N:1209:LEU:O	3:N:1210:SER:C	2.56	0.48
3:N:1238:MET:CG	3:N:1239:ARG:N	2.76	0.48
5:P:90:GLN:HG2	5:P:90:GLN:O	2.13	0.48
5:P:229:TYR:C	5:P:231:ARG:N	2.71	0.48
1:A:101:LEU:HG	1:A:102:LYS:H	1.79	0.48
1:A:184:THR:CG2	1:A:192:LEU:HB2	2.43	0.48
1:A:227:ASN:O	1:A:227:ASN:ND2	2.46	0.48
2:C:254:VAL:HG22	2:C:258:TYR:CE1	2.48	0.48
2:C:345:ARG:NH1	2:C:345:ARG:HB3	2.28	0.48
2:C:545:ASN:HA	2:C:905:ILE:HD11	1.95	0.48
3:D:586:ARG:NH1	3:D:1444:THR:HG21	2.29	0.48
3:D:606:ILE:HA	3:D:613:ARG:HD2	1.95	0.48
3:D:1264:GLU:CG	3:D:1266:ARG:CZ	2.83	0.48
3:D:1480:PHE:O	4:E:18:ARG:NH2	2.46	0.48
5:F:108:GLU:OE1	5:F:108:GLU:HA	2.13	0.48
5:F:234:LYS:HD2	5:F:236:SER:HB2	1.94	0.48
1:L:180:GLN:O	1:L:196:THR:HG22	2.13	0.48
2:M:130:ASN:ND2	2:M:383:ARG:HH21	2.08	0.48
2:M:165:LEU:HA	2:M:166:PRO:O	2.13	0.48
2:M:193:LEU:O	2:M:197:LEU:HG	2.13	0.48
2:M:537:LYS:HB2	2:M:537:LYS:HZ2	1.78	0.48
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.48	0.48
2:M:1097:LEU:HD23	3:N:10:ILE:CD1	2.30	0.48
2:M:1105:LYS:O	2:M:1106:ASP:C	2.57	0.48
3:N:12:LEU:H	3:N:507:ASN:ND2	2.12	0.48
3:N:23:TYR:CE2	3:N:89:ARG:HD3	2.49	0.48
3:N:28:LYS:HA	3:N:29:PRO:HD3	1.70	0.48
3:N:97:THR:HG21	3:N:571:LYS:CD	2.40	0.48
3:N:573:MET:HE2	5:P:214:GLN:HG3	1.94	0.48
3:N:811:GLU:O	3:N:815:ALA:CB	2.61	0.48
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.95	0.48
5:P:288:TYR:HA	5:P:291:ILE:HG22	1.94	0.48
1:A:18:ARG:NH1	1:A:88:ARG:NE	2.50	0.48
1:A:35:THR:HA	1:B:42:ARG:HD3	1.94	0.48
1:B:132:LEU:HD11	1:B:138:LEU:HD13	1.94	0.48
2:C:25:SER:O	2:C:26:TYR:C	2.53	0.48
2:C:91:GLN:HB3	2:C:117:HIS:HB3	1.95	0.48
2:C:115:LEU:HA	2:C:375:SER:OG	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:704:HIS:HB3	2:C:831:ARG:NH1	2.29	0.48
2:C:730:SER:O	2:C:734:LEU:HD23	2.13	0.48
2:C:835:VAL:HA	2:C:849:VAL:CG1	2.44	0.48
3:D:124:GLU:C	3:D:126:VAL:N	2.67	0.48
3:D:178:LEU:O	3:D:180:LYS:N	2.47	0.48
3:D:834:THR:HG22	3:D:838:ARG:CB	2.43	0.48
3:D:1314:LYS:HZ3	3:D:1317:ASP:CB	2.26	0.48
5:F:194:LEU:O	5:F:198:ILE:HG13	2.12	0.48
1:L:171:PHE:O	1:L:172:SER:C	2.55	0.48
2:M:83:CYS:O	2:M:86:LYS:O	2.31	0.48
2:M:165:LEU:HD12	2:M:166:PRO:CA	2.41	0.48
2:M:208:ALA:HA	2:M:218:VAL:HG11	1.95	0.48
2:M:368:THR:CB	2:M:369:PRO:HD3	2.34	0.48
2:M:666:LEU:CG	2:M:668:LEU:HD11	2.44	0.48
2:M:734:LEU:O	2:M:735:ARG:C	2.57	0.48
2:M:1044:GLY:C	2:M:1046:ALA:N	2.64	0.48
3:N:40:GLU:CG	3:N:41:ARG:H	2.26	0.48
3:N:783:ARG:O	3:N:784:ASP:C	2.57	0.48
3:N:808:THR:H	3:N:809:PRO:CD	2.27	0.48
4:O:31:LEU:O	4:O:34:GLY:O	2.32	0.48
5:P:169:GLU:H	5:P:169:GLU:CD	2.22	0.48
1:A:189:ARG:HG2	1:A:190:THR:H	1.77	0.48
1:B:23:PHE:HZ	1:B:208:LEU:HA	1.77	0.48
1:B:85:LEU:HD12	1:B:124:ASN:HB2	1.96	0.48
2:C:602:GLU:CB	2:C:614:ARG:HB3	2.40	0.48
2:C:650:ARG:HD3	2:C:650:ARG:H	1.78	0.48
2:C:950:LEU:CB	2:C:952:LEU:HD23	2.41	0.48
2:C:1070:ILE:O	2:C:1071:ILE:C	2.56	0.48
3:D:25:GLU:OE1	3:D:26:VAL:C	2.57	0.48
3:D:46:ASP:OD2	3:D:48:ARG:N	2.46	0.48
3:D:80:VAL:HG22	3:D:81:THR:N	2.28	0.48
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.43	0.48
3:D:161:LEU:O	3:D:449:SER:CB	2.62	0.48
3:D:201:GLY:O	3:D:203:ALA:N	2.46	0.48
3:D:547:LEU:CD2	3:D:581:LEU:HD21	2.43	0.48
3:D:769:LEU:O	3:D:778:LEU:N	2.41	0.48
3:D:845:ASN:O	3:D:848:GLU:HB2	2.14	0.48
3:D:919:PHE:C	3:D:919:PHE:CD2	2.92	0.48
3:D:996:TRP:CD1	3:D:1056:PRO:CG	2.96	0.48
3:D:1277:ILE:HB	3:D:1294:VAL:HG11	1.95	0.48
3:D:1314:LYS:O	3:D:1316:GLY:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:416:ARG:CZ	5:F:419:ARG:HG2	2.44	0.48
1:K:16:GLN:O	1:K:17:GLY:C	2.56	0.48
1:K:26:GLU:CB	1:K:27:PRO:HA	2.44	0.48
1:L:55:SER:HB2	1:L:158:ILE:HB	1.96	0.48
2:M:265:ARG:HG3	2:M:288:ARG:CD	2.43	0.48
2:M:957:LYS:HB2	2:M:962:GLN:HE21	1.77	0.48
2:M:1047:HIS:ND1	3:N:754:PHE:CG	2.82	0.48
3:N:438:ASP:HB3	3:N:443:VAL:HB	1.94	0.48
3:N:457:GLY:C	3:N:459:GLU:H	2.21	0.48
3:N:460:ALA:O	3:N:463:GLN:HB2	2.14	0.48
3:N:646:LYS:CA	3:N:720:LEU:HD22	2.42	0.48
3:N:710:ARG:C	3:N:712:GLY:N	2.70	0.48
5:P:340:SER:O	5:P:342:VAL:N	2.47	0.48
5:P:406:ARG:CG	5:P:409:LYS:HE2	2.42	0.48
5:P:418:LEU:O	5:P:419:ARG:C	2.55	0.48
2:C:154:ARG:O	2:C:156:GLY:N	2.46	0.48
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.43	0.48
2:C:321:GLU:O	2:C:322:VAL:C	2.57	0.48
2:C:537:LYS:CA	2:C:545:ASN:HD21	2.06	0.48
2:C:713:ARG:HH11	2:C:713:ARG:CB	2.27	0.48
2:C:906:PHE:CE1	3:D:1067:VAL:HA	2.48	0.48
2:C:918:LEU:CD2	2:C:968:LEU:O	2.62	0.48
3:D:10:ILE:HD11	3:D:1434:TRP:NE1	2.28	0.48
3:D:163:TYR:HE2	3:D:167:GLU:CD	2.21	0.48
3:D:207:PHE:HB3	3:D:395:VAL:HG21	1.96	0.48
3:D:656:PHE:CE1	3:D:751:LEU:HD23	2.49	0.48
3:D:754:PHE:HD1	4:E:24:ALA:HB1	1.78	0.48
3:D:882:PHE:HA	3:D:885:ILE:HD12	1.95	0.48
3:D:1118:ILE:CG2	3:D:1188:VAL:HG13	2.43	0.48
3:D:1233:GLY:O	3:D:1235:GLN:N	2.47	0.48
5:F:82:ARG:HG2	5:F:86:HIS:NE2	2.29	0.48
1:K:69:PRO:O	1:K:71:VAL:HG23	2.13	0.48
1:K:156:HIS:HD2	1:K:157:GLY:N	2.11	0.48
1:L:209:GLU:O	1:L:212:ASN:HB2	2.14	0.48
2:M:411:SER:HA	2:M:452:ILE:HG22	1.96	0.48
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.96	0.48
2:M:873:PRO:O	2:M:876:VAL:HG23	2.14	0.48
2:M:1054:THR:HG22	2:M:1059:ASP:OD2	2.13	0.48
2:M:1067:TYR:CE1	3:N:655:PRO:HG3	2.48	0.48
3:N:29:PRO:CG	3:N:549:ASN:ND2	2.72	0.48
3:N:131:LYS:HG3	3:N:456:MET:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:178:LEU:HA	3:N:199:LEU:HD13	1.96	0.48
3:N:385:VAL:CG1	5:P:96:LEU:HB3	2.44	0.48
3:N:645:PRO:CG	3:N:724:GLN:O	2.62	0.48
3:N:819:GLY:O	3:N:822:ALA:HB3	2.14	0.48
3:N:928:ALA:O	3:N:929:ARG:C	2.55	0.48
3:N:974:ILE:O	3:N:974:ILE:HG22	2.13	0.48
3:N:1066:THR:CG2	3:N:1069:GLU:HG3	2.44	0.48
3:N:1166:LEU:HA	3:N:1170:ASP:OD2	2.14	0.48
1:A:25:LEU:HD23	1:A:25:LEU:C	2.38	0.48
2:C:398:THR:HA	2:C:633:GLN:HG3	1.95	0.48
2:C:670:GLN:HB2	2:C:700:TYR:CZ	2.48	0.48
2:C:1005:MET:O	2:C:1005:MET:HG2	2.14	0.48
3:D:807:ALA:HB2	3:D:833:GLU:HB2	1.94	0.48
3:D:808:THR:CB	3:D:809:PRO:CD	2.88	0.48
3:D:813:LEU:HD12	3:D:814:ALA:N	2.29	0.48
3:D:996:TRP:O	3:D:998:GLU:N	2.47	0.48
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.14	0.48
3:D:1082:ALA:O	3:D:1083:ASP:C	2.56	0.48
3:D:1229:ILE:HD11	3:D:1367:HIS:CB	2.40	0.48
5:F:137:GLY:HA2	5:F:140:ARG:HH22	1.77	0.48
5:F:317:LEU:O	5:F:317:LEU:HD23	2.14	0.48
1:L:59:GLU:CG	1:L:60:ASP:H	2.18	0.48
2:M:86:LYS:HB3	2:M:88:LEU:HG	1.95	0.48
2:M:91:GLN:OE1	2:M:117:HIS:HB3	2.13	0.48
2:M:139:GLN:NE2	2:M:415:PRO:CD	2.68	0.48
2:M:139:GLN:HE21	2:M:414:GLY:HA3	1.75	0.48
2:M:348:LEU:N	2:M:348:LEU:HD12	2.28	0.48
2:M:1007:ALA:CB	3:N:648:MET:HG2	2.42	0.48
2:M:1058:ASP:OD1	2:M:1084:SER:HB2	2.13	0.48
3:N:135:LEU:C	3:N:135:LEU:HD23	2.39	0.48
3:N:179:VAL:HG21	3:N:217:LYS:HZ3	1.78	0.48
3:N:397:LYS:NZ	3:N:399:ARG:HH21	2.09	0.48
3:N:559:ALA:C	3:N:561:GLY:N	2.72	0.48
3:N:701:LEU:O	3:N:747:VAL:HA	2.13	0.48
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.49	0.48
3:N:1072:ILE:HG22	3:N:1073:SER:N	2.28	0.48
3:N:1223:ILE:O	3:N:1224:VAL:C	2.55	0.48
5:P:88:ILE:HG21	5:P:193:ARG:HD2	1.96	0.48
5:P:307:THR:O	5:P:310:ILE:N	2.46	0.48
2:C:172:ILE:HG22	2:C:173:ASP:N	2.29	0.48
2:C:577:PRO:HG3	2:C:993:PHE:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1021:LEU:CD2	5:F:332:PHE:HA	2.43	0.48
3:D:154:THR:CG2	3:D:155:ASP:N	2.77	0.48
3:D:687:VAL:O	3:D:690:ALA:HB3	2.14	0.48
3:D:919:PHE:C	3:D:919:PHE:HD2	2.22	0.48
3:D:1091:SER:O	3:D:1092:GLY:C	2.56	0.48
3:D:1197:ARG:HB2	3:D:1396:GLU:OE2	2.14	0.48
5:F:291:ILE:HG23	5:F:292:ALA:N	2.29	0.48
2:M:352:ALA:CA	2:M:355:VAL:HG12	2.31	0.48
2:M:390:GLN:OE1	2:M:414:GLY:O	2.32	0.48
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.44	0.48
2:M:497:ALA:HA	2:M:515:ALA:HA	1.95	0.48
2:M:516:ARG:NH2	3:N:1068:LEU:CB	2.77	0.48
2:M:660:ALA:HB1	2:M:667:ALA:O	2.14	0.48
2:M:1094:ALA:N	3:N:90:MET:HE1	2.29	0.48
3:N:127:LEU:HD13	3:N:457:GLY:H	1.79	0.48
3:N:148:GLU:O	3:N:149:LYS:C	2.56	0.48
3:N:226:PRO:O	3:N:227:LEU:C	2.56	0.48
3:N:1145:TYR:HD2	3:N:1168:MET:HE3	1.79	0.48
4:O:40:LEU:CD2	4:O:67:GLU:HG2	2.36	0.48
5:P:143:HIS:O	5:P:147:LEU:HA	2.13	0.48
2:C:168:ARG:O	2:C:170:PRO:HD3	2.14	0.47
2:C:255:ALA:O	2:C:298:PHE:CE2	2.67	0.47
2:C:342:ASP:O	2:C:345:ARG:HG2	2.14	0.47
2:C:734:LEU:O	2:C:735:ARG:C	2.57	0.47
2:C:835:VAL:CG2	2:C:836:GLY:N	2.76	0.47
3:D:217:LYS:NZ	3:D:217:LYS:HB2	2.28	0.47
3:D:224:ARG:H	3:D:365:ASP:HB2	1.79	0.47
3:D:499:VAL:HG12	3:D:503:LEU:HD12	1.96	0.47
3:D:679:ARG:NH1	3:D:681:ARG:HD2	2.29	0.47
3:D:864:VAL:CG1	3:D:865:THR:N	2.77	0.47
3:D:1167:SER:C	3:D:1169:ASP:H	2.21	0.47
5:F:158:GLU:CA	5:F:161:GLN:NE2	2.72	0.47
1:K:22:GLU:O	1:K:23:PHE:CG	2.67	0.47
2:M:396:ASP:OD1	2:M:402:SER:HB2	2.14	0.47
2:M:403:SER:O	2:M:406:HIS:N	2.47	0.47
2:M:724:ARG:CG	2:M:724:ARG:O	2.62	0.47
2:M:895:TYR:HA	2:M:991:GLN:NE2	2.29	0.47
3:N:114:THR:C	3:N:116:LEU:H	2.20	0.47
3:N:131:LYS:HE2	3:N:456:MET:HE2	1.95	0.47
3:N:396:VAL:HG22	3:N:447:VAL:HG12	1.96	0.47
3:N:1042:ARG:NH2	3:N:1045:MET:HE1	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1262:LEU:CD2	3:N:1351:GLU:HB3	2.40	0.47
3:N:1336:LEU:HB2	3:N:1344:VAL:HG21	1.96	0.47
2:C:115:LEU:HD23	2:C:115:LEU:N	2.17	0.47
2:C:268:ASP:H	2:C:272:ALA:HB2	1.78	0.47
2:C:415:PRO:HB2	2:C:418:LEU:HD23	1.96	0.47
2:C:449:ILE:O	2:C:451:LEU:N	2.45	0.47
2:C:458:TYR:HE1	2:C:537:LYS:HB2	1.80	0.47
2:C:964:LYS:C	2:C:968:LEU:HD12	2.40	0.47
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.80	0.47
3:D:385:VAL:CG2	5:F:97:GLU:HG2	2.44	0.47
3:D:545:ARG:O	3:D:546:ARG:C	2.57	0.47
3:D:646:LYS:CG	3:D:647:ARG:N	2.78	0.47
3:D:963:TYR:H	3:D:963:TYR:HD1	1.62	0.47
3:D:1197:ARG:HD3	3:D:1396:GLU:HB2	1.95	0.47
3:D:1478:SER:O	3:D:1479:ASP:C	2.56	0.47
2:M:188:LYS:HD3	2:M:189:ARG:H	1.77	0.47
2:M:408:ARG:O	2:M:408:ARG:HG3	2.14	0.47
2:M:754:ILE:HD13	2:M:791:ARG:HD2	1.95	0.47
3:N:457:GLY:C	3:N:459:GLU:N	2.68	0.47
3:N:502:PHE:HZ	3:N:1452:ILE:HD11	1.79	0.47
3:N:648:MET:O	3:N:649:ALA:C	2.57	0.47
3:N:739:ASP:OD2	3:N:741:ASP:OD2	2.31	0.47
3:N:1269:LYS:HE2	3:N:1269:LYS:HA	1.96	0.47
3:N:1342:GLU:CD	3:N:1342:GLU:N	2.60	0.47
4:O:63:TRP:O	4:O:64:ALA:C	2.57	0.47
5:P:260:ILE:CD1	5:P:264:MET:HB3	2.43	0.47
1:A:182:GLU:O	1:A:183:ASP:O	2.32	0.47
2:C:16:PRO:O	2:C:18:LEU:N	2.47	0.47
2:C:403:SER:O	2:C:407:LYS:HE2	2.14	0.47
2:C:650:ARG:N	2:C:650:ARG:CD	2.75	0.47
2:C:676:ILE:O	2:C:676:ILE:HG23	2.15	0.47
3:D:54:LYS:O	3:D:55:ASP:C	2.57	0.47
3:D:159:ARG:HH11	3:D:159:ARG:CB	2.26	0.47
3:D:577:ALA:O	3:D:580:ALA:HB3	2.14	0.47
3:D:697:GLY:CA	4:E:59:ASN:OD1	2.62	0.47
3:D:1086:LEU:CA	6:D:1525:STD:H32	2.36	0.47
3:D:1145:TYR:HD2	3:D:1146:GLY:H	1.58	0.47
4:E:18:ARG:O	4:E:19:LEU:C	2.57	0.47
5:F:302:LYS:HG3	5:F:303:ARG:N	2.30	0.47
1:K:97:VAL:CG1	1:K:98:THR:N	2.76	0.47
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:189:ARG:HH12	1:L:155:LYS:HZ3	1.61	0.47
1:L:124:ASN:N	1:L:125:PRO:HD3	2.29	0.47
2:M:170:PRO:CB	2:M:172:ILE:HD11	2.44	0.47
2:M:226:VAL:HG13	2:M:227:PHE:HD1	1.79	0.47
2:M:261:ILE:HG22	2:M:262:ALA:N	2.28	0.47
2:M:474:VAL:HG23	2:M:479:VAL:HA	1.95	0.47
2:M:722:ILE:O	2:M:722:ILE:HG12	2.14	0.47
3:N:18:ILE:HD12	3:N:518:PRO:CG	2.45	0.47
3:N:119:SER:C	3:N:121:THR:H	2.23	0.47
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.68	0.47
3:N:473:LEU:HD12	3:N:476:GLU:OE2	2.13	0.47
3:N:875:THR:HG22	3:N:879:ARG:CG	2.40	0.47
3:N:920:LEU:H	3:N:920:LEU:CD1	2.28	0.47
3:N:920:LEU:HD12	3:N:920:LEU:N	2.30	0.47
3:N:935:LYS:HG3	3:N:939:PHE:HE1	1.78	0.47
3:N:1059:SER:HB2	3:N:1065:LEU:HD12	1.95	0.47
5:P:389:PHE:HD2	5:P:397:ILE:CD1	2.26	0.47
1:A:94:LEU:C	1:A:96:THR:H	2.22	0.47
1:A:195:LEU:HD12	1:A:196:THR:H	1.80	0.47
2:C:95:TYR:HB2	2:C:113:VAL:H	1.79	0.47
2:C:480:THR:CG2	2:C:482:GLU:HB3	2.43	0.47
2:C:542:VAL:O	2:C:543:ASN:C	2.57	0.47
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.49	0.47
3:D:169:TYR:CG	3:D:169:TYR:O	2.66	0.47
3:D:175:VAL:O	3:D:179:VAL:HG21	2.14	0.47
3:D:425:GLY:O	3:D:426:LYS:C	2.57	0.47
3:D:470:LEU:HD12	3:D:508:ARG:NH2	2.30	0.47
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.30	0.47
3:D:1062:ARG:HD3	3:D:1062:ARG:C	2.39	0.47
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.14	0.47
5:F:84:TYR:HB3	5:F:88:ILE:HD11	1.96	0.47
5:F:323:ASP:O	5:F:325:LYS:HG3	2.14	0.47
1:L:1:MET:CE	1:L:1:MET:H3	2.27	0.47
1:L:176:ARG:NH2	3:N:884:ARG:NE	2.62	0.47
2:M:17:PRO:O	2:M:20:GLU:HB3	2.14	0.47
2:M:250:ARG:O	2:M:251:ASP:C	2.57	0.47
2:M:610:ARG:HD2	2:M:622:GLU:HG3	1.97	0.47
2:M:736:ASP:O	2:M:738:ASP:N	2.44	0.47
2:M:1097:LEU:H	2:M:1097:LEU:CD1	2.23	0.47
3:N:82:LYS:O	3:N:84:ILE:N	2.47	0.47
3:N:105:VAL:HG22	3:N:112:ILE:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:455:ARG:HH22	5:P:140:ARG:CD	2.27	0.47
3:N:462:GLN:O	3:N:463:GLN:C	2.57	0.47
3:N:477:LEU:HD11	3:N:495:ARG:HG2	1.97	0.47
3:N:547:LEU:HD11	3:N:578:VAL:HG22	1.96	0.47
3:N:757:ALA:O	3:N:761:ILE:N	2.46	0.47
3:N:902:LEU:HD12	3:N:903:ASP:N	2.29	0.47
3:N:1322:GLY:O	3:N:1323:GLN:C	2.57	0.47
3:N:1435:LEU:C	3:N:1437:ALA:H	2.23	0.47
5:P:229:TYR:C	5:P:231:ARG:H	2.22	0.47
5:P:372:ARG:NE	5:P:388:ALA:HA	2.30	0.47
2:C:136:ILE:HD13	2:C:392:SER:OG	2.15	0.47
2:C:196:LEU:HA	2:C:199:VAL:CG2	2.43	0.47
2:C:198:ARG:C	2:C:200:LEU:H	2.22	0.47
2:C:872:ASN:OD1	2:C:873:PRO:CD	2.63	0.47
3:D:54:LYS:NZ	3:D:55:ASP:OD1	2.29	0.47
3:D:78:VAL:O	3:D:78:VAL:HG12	2.15	0.47
3:D:106:LYS:O	3:D:586:ARG:NH2	2.47	0.47
3:D:141:ILE:HG22	3:D:142:LEU:N	2.29	0.47
3:D:385:VAL:O	3:D:385:VAL:HG22	2.13	0.47
3:D:433:GLY:H	3:D:448:GLU:C	2.22	0.47
3:D:759:ALA:HA	3:D:763:MET:HE2	1.95	0.47
3:D:1251:ASP:OD1	3:D:1270:ALA:HB3	2.13	0.47
5:F:164:LYS:CA	5:F:171:LYS:NZ	2.78	0.47
1:K:1:MET:SD	1:K:5:LYS:HB3	2.54	0.47
1:K:56:VAL:HG12	1:K:58:ILE:HG12	1.97	0.47
1:K:175:ARG:HE	1:K:202:ASP:CA	2.21	0.47
1:K:205:VAL:HG23	1:K:206:THR:H	1.76	0.47
2:M:536:PRO:O	2:M:538:GLN:N	2.47	0.47
2:M:744:ARG:HG3	2:M:744:ARG:O	2.14	0.47
2:M:1019:GLN:HE22	3:N:621:LYS:HA	1.79	0.47
3:N:25:GLU:HB2	3:N:92:HIS:CE1	2.49	0.47
3:N:28:LYS:HG2	3:N:41:ARG:CD	2.43	0.47
3:N:38:LYS:HE2	3:N:39:PRO:HD2	1.95	0.47
3:N:52:PRO:HG3	3:N:81:THR:H	1.78	0.47
3:N:74:GLU:O	3:N:75:ARG:NH2	2.48	0.47
3:N:82:LYS:C	3:N:84:ILE:N	2.72	0.47
3:N:212:ARG:HB3	3:N:394:LEU:HD13	1.95	0.47
3:N:367:ILE:HG12	3:N:368:VAL:N	2.28	0.47
3:N:387:LEU:HD22	3:N:387:LEU:N	2.29	0.47
3:N:416:ALA:H	3:N:417:PRO:HD2	1.79	0.47
3:N:481:MET:CE	3:N:1389:LEU:HD21	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:642:CYS:HB3	3:N:716:PHE:CG	2.48	0.47
3:N:709:HIS:CD2	3:N:711:LEU:HB2	2.49	0.47
3:N:750:PRO:HG2	3:N:756:GLN:OE1	2.15	0.47
3:N:780:LYS:CD	3:N:912:LYS:HG3	2.45	0.47
5:P:171:LYS:HE3	5:P:175:HIS:NE2	2.29	0.47
5:P:214:GLN:HA	5:P:217:ASN:ND2	2.21	0.47
5:P:287:THR:HG23	5:P:290:GLU:HB2	1.96	0.47
2:C:27:ARG:O	2:C:29:ALA:N	2.47	0.47
2:C:122:THR:HG22	2:C:123:GLU:N	2.30	0.47
2:C:148:PHE:CB	2:C:313:LEU:HD22	2.44	0.47
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.50	0.47
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.14	0.47
2:C:1054:THR:HG22	2:C:1059:ASP:CB	2.29	0.47
2:C:1070:ILE:CD1	3:D:751:LEU:HD22	2.45	0.47
3:D:385:VAL:HG22	5:F:97:GLU:HG2	1.95	0.47
3:D:474:GLU:O	3:D:478:LEU:HG	2.14	0.47
3:D:502:PHE:CE2	3:D:512:MET:HE2	2.49	0.47
3:D:719:VAL:O	3:D:720:LEU:C	2.57	0.47
3:D:795:VAL:CG1	3:D:796:ARG:N	2.77	0.47
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.14	0.47
3:D:1155:VAL:HG12	3:D:1156:LEU:N	2.29	0.47
3:D:1474:ALA:O	3:D:1475:GLY:C	2.57	0.47
5:F:280:GLN:OE1	5:F:281:GLU:CB	2.56	0.47
5:F:372:ARG:HD2	5:F:372:ARG:HA	1.64	0.47
5:F:413:SER:O	5:F:416:ARG:HD3	2.15	0.47
1:K:85:LEU:HD11	1:K:87:VAL:CG1	2.45	0.47
1:L:6:LEU:HG	1:L:6:LEU:O	2.14	0.47
1:L:186:LEU:HD23	1:L:186:LEU:C	2.39	0.47
2:M:80:GLN:O	2:M:83:CYS:N	2.47	0.47
2:M:365:ASP:O	2:M:367:LEU:HG	2.15	0.47
2:M:559:LEU:HD11	2:M:563:ASN:HD21	1.78	0.47
2:M:775:ARG:HH11	2:M:782:ALA:CB	2.28	0.47
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.49	0.47
2:M:1047:HIS:HE1	2:M:1078:GLU:OE2	1.98	0.47
3:N:221:ALA:O	3:N:367:ILE:HG23	2.15	0.47
3:N:701:LEU:O	3:N:702:LEU:CD1	2.62	0.47
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.14	0.47
3:N:1435:LEU:C	3:N:1437:ALA:N	2.73	0.47
3:N:1440:PHE:HB2	3:N:1442:ASN:HD21	1.78	0.47
1:A:67:THR:HG21	2:C:609:ASN:OD1	2.15	0.47
1:A:160:ASP:HB2	1:A:161:ARG:H	1.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:23:PHE:HE2	1:B:199:ILE:HD12	1.79	0.47
1:B:44:LEU:HD23	1:B:210:ALA:HB1	1.97	0.47
2:C:352:ALA:O	2:C:356:ARG:HG3	2.15	0.47
2:C:468:ARG:HG2	2:C:487:THR:HA	1.96	0.47
2:C:516:ARG:HH21	3:D:1068:LEU:HB3	1.75	0.47
2:C:885:ILE:HG22	2:C:885:ILE:O	2.14	0.47
2:C:1012:PRO:O	2:C:1013:TYR:CG	2.68	0.47
2:C:1047:HIS:O	2:C:1050:GLN:N	2.47	0.47
2:C:1059:ASP:CG	2:C:1062:GLY:H	2.22	0.47
2:C:1081:VAL:HG12	2:C:1082:PRO:HD2	1.97	0.47
2:C:1095:LEU:HB3	3:D:101:HIS:CE1	2.50	0.47
3:D:87:ARG:HB3	3:D:523:ASP:HB3	1.94	0.47
3:D:127:LEU:HD12	3:D:128:TYR:N	2.29	0.47
3:D:400:VAL:O	3:D:442:ASN:HB3	2.14	0.47
3:D:431:VAL:HG22	3:D:431:VAL:O	2.14	0.47
3:D:475:LYS:HA	3:D:478:LEU:CD1	2.44	0.47
3:D:601:ARG:HH22	3:D:611:GLN:HB2	1.77	0.47
3:D:840:LYS:HG2	3:D:841:TYR:CD2	2.50	0.47
3:D:914:LEU:C	3:D:914:LEU:CD2	2.85	0.47
3:D:918:ALA:HB1	3:D:922:LEU:HD12	1.97	0.47
3:D:1148:VAL:HG11	3:D:1203:LYS:HD2	1.96	0.47
3:D:1331:ASP:OD2	3:D:1332:PRO:CD	2.62	0.47
5:F:153:PRO:O	5:F:156:VAL:CG2	2.62	0.47
5:F:234:LYS:HD3	5:F:235:PHE:N	2.29	0.47
5:F:287:THR:HG22	5:F:290:GLU:OE2	2.15	0.47
1:L:25:LEU:HD23	1:L:28:LEU:HD11	1.97	0.47
1:L:206:THR:HG22	1:L:209:GLU:CD	2.39	0.47
2:M:122:THR:HG22	2:M:123:GLU:N	2.28	0.47
2:M:313:LEU:C	2:M:315:ALA:N	2.73	0.47
2:M:577:PRO:HG3	2:M:993:PHE:CG	2.50	0.47
2:M:711:GLU:OE1	2:M:713:ARG:NH2	2.48	0.47
2:M:854:PRO:HB3	2:M:856:GLU:OE2	2.13	0.47
2:M:880:MET:HE1	3:N:1037:GLN:NE2	2.30	0.47
2:M:925:TYR:HD2	2:M:967:PHE:CE1	2.33	0.47
2:M:1060:ILE:O	2:M:1063:ARG:HG2	2.14	0.47
2:M:1064:ASN:HD21	5:P:344:ALA:HB1	1.79	0.47
3:N:118:LEU:HA	3:N:123:LEU:HD13	1.97	0.47
3:N:168:THR:HG22	3:N:170:PRO:CD	2.44	0.47
3:N:396:VAL:HG12	3:N:397:LYS:N	2.29	0.47
3:N:424:GLY:CA	3:N:436:GLU:HA	2.44	0.47
3:N:477:LEU:HB2	3:N:496:LEU:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:613:ARG:HH11	3:N:613:ARG:HG3	1.80	0.47
3:N:789:LEU:C	3:N:792:ILE:HG22	2.38	0.47
3:N:938:GLY:O	3:N:942:SER:HB2	2.15	0.47
3:N:1256:LEU:O	3:N:1259:VAL:N	2.46	0.47
3:N:1290:LEU:HD13	3:N:1309:ALA:O	2.14	0.47
4:O:45:ARG:O	4:O:47:LYS:HE3	2.15	0.47
4:O:45:ARG:HB3	4:O:46:PRO:CD	2.44	0.47
5:P:164:LYS:C	5:P:166:LEU:H	2.23	0.47
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.96	0.47
1:A:51:THR:HG22	1:A:146:ARG:HA	1.97	0.47
1:B:62:LEU:HA	1:B:163:ASN:HB3	1.96	0.47
2:C:852:ILE:HD13	2:C:852:ILE:HA	1.79	0.47
2:C:969:GLN:HE21	2:C:971:LYS:HE2	1.79	0.47
2:C:1000:MET:HB2	2:C:1002:GLU:HG2	1.97	0.47
2:C:1086:ARG:NH1	3:D:88:TYR:HE1	2.13	0.47
3:D:97:THR:CB	3:D:571:LYS:HD3	2.45	0.47
3:D:470:LEU:O	3:D:471:GLU:C	2.58	0.47
3:D:730:PRO:HA	3:D:733:CYS:SG	2.55	0.47
3:D:781:PRO:HB2	3:D:911:LEU:HD23	1.97	0.47
3:D:1123:PHE:CD1	3:D:1134:LEU:HA	2.50	0.47
3:D:1211:MET:HB3	3:D:1213:ARG:NE	2.30	0.47
3:D:1462:LEU:HD22	3:D:1473:PRO:HD2	1.97	0.47
5:F:419:ARG:O	5:F:421:PHE:N	2.48	0.47
1:K:39:PRO:HG3	1:L:39:PRO:HG2	1.97	0.47
1:K:201:THR:CG2	1:K:202:ASP:N	2.77	0.47
1:K:225:PHE:CZ	1:L:25:LEU:HD22	2.48	0.47
1:L:107:LYS:CE	1:L:109:VAL:HG22	2.45	0.47
2:M:45:GLN:O	2:M:49:ARG:HG3	2.14	0.47
2:M:880:MET:HG2	3:N:1038:LEU:HD11	1.96	0.47
2:M:1048:THR:OG1	3:N:755:ALA:HA	2.14	0.47
3:N:79:GLU:HG2	3:N:80:VAL:H	1.80	0.47
3:N:231:VAL:O	3:N:378:ILE:HG12	2.15	0.47
3:N:423:ASP:CG	5:P:175:HIS:HA	2.40	0.47
3:N:441:ARG:C	3:N:443:VAL:N	2.71	0.47
3:N:459:GLU:HG3	5:P:144:ILE:HD13	1.97	0.47
3:N:654:LYS:O	3:N:657:LEU:N	2.48	0.47
3:N:789:LEU:O	3:N:793:THR:HG23	2.15	0.47
3:N:1280:VAL:HA	3:N:1317:ASP:O	2.15	0.47
3:N:1451:ALA:C	3:N:1453:ALA:N	2.71	0.47
3:N:1479:ASP:HA	3:N:1482:ARG:HB2	1.96	0.47
5:P:136:LEU:HD13	5:P:141:VAL:HG11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:287:THR:HG22	5:P:290:GLU:HB2	1.97	0.47
1:A:162:ILE:HG13	1:A:163:ASN:ND2	2.30	0.47
1:A:219:ARG:CG	1:A:219:ARG:NH1	2.77	0.47
2:C:313:LEU:C	2:C:315:ALA:N	2.72	0.47
2:C:610:ARG:HG3	2:C:610:ARG:HH11	1.80	0.47
3:D:80:VAL:CG2	3:D:81:THR:N	2.78	0.47
3:D:1370:ILE:O	3:D:1373:ARG:HG2	2.15	0.47
3:D:1472:ILE:HG22	3:D:1474:ALA:N	2.24	0.47
5:F:93:LEU:HG	5:F:190:ALA:CB	2.45	0.47
5:F:287:THR:C	5:F:289:GLU:N	2.72	0.47
1:K:111:ALA:HB2	1:K:127:LEU:HB3	1.96	0.47
2:M:64:LEU:HD13	2:M:359:MET:CG	2.45	0.47
2:M:374:ASN:O	2:M:374:ASN:CG	2.57	0.47
2:M:444:PRO:HG2	2:M:452:ILE:HG13	1.96	0.47
2:M:553:ASP:OD2	2:M:881:ASN:CA	2.63	0.47
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.45	0.47
2:M:1036:GLU:N	2:M:1036:GLU:OE1	2.38	0.47
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.43	0.47
3:N:12:LEU:HD11	3:N:104:PHE:CE1	2.44	0.47
3:N:178:LEU:N	3:N:199:LEU:HD13	2.29	0.47
3:N:764:LEU:HD23	3:N:766:ALA:HB3	1.96	0.47
3:N:810:GLU:C	3:N:813:LEU:HG	2.40	0.47
3:N:1214:PRO:O	3:N:1215:VAL:C	2.56	0.47
3:N:1258:ARG:HG3	3:N:1262:LEU:HD13	1.96	0.47
3:N:1393:GLN:HB2	3:N:1398:TRP:CZ2	2.50	0.47
4:O:43:GLU:O	4:O:45:ARG:HG2	2.15	0.47
1:A:72:LYS:O	2:C:608:GLY:HA2	2.14	0.47
1:A:111:ALA:O	1:A:112:ARG:C	2.58	0.47
1:A:144:VAL:CG1	1:A:145:ASP:H	2.28	0.47
1:B:174:VAL:HA	1:B:200:TRP:O	2.15	0.47
1:B:217:ILE:O	1:B:221:HIS:CD2	2.68	0.47
2:C:433:THR:HG22	2:C:437:ARG:HD2	1.97	0.47
2:C:473:ARG:O	2:C:480:THR:OG1	2.33	0.47
2:C:692:GLU:O	2:C:692:GLU:HG2	2.14	0.47
2:C:1077:PRO:O	2:C:1078:GLU:C	2.58	0.47
3:D:237:LYS:HB3	3:D:238:PRO:HD3	1.96	0.47
3:D:991:GLN:O	3:D:994:GLN:HB3	2.15	0.47
3:D:1459:LEU:HD11	3:D:1468:LEU:HD12	1.97	0.47
4:E:68:LEU:HD12	4:E:68:LEU:O	2.14	0.47
1:K:150:TYR:HE2	1:K:152:PRO:CG	2.13	0.47
2:M:690:ILE:HD12	2:M:694:LEU:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1043:TYR:CG	3:N:763:MET:HG3	2.50	0.47
2:M:1052:MET:CE	3:N:623:VAL:HG11	2.44	0.47
3:N:601:ARG:HB3	5:P:318:GLU:OE1	2.15	0.47
3:N:877:PRO:O	3:N:880:ILE:N	2.48	0.47
3:N:1155:VAL:C	3:N:1157:GLY:H	2.19	0.47
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.30	0.47
3:N:1474:ALA:O	3:N:1476:THR:N	2.48	0.47
4:O:51:LEU:O	4:O:52:GLU:CD	2.58	0.47
5:P:274:THR:OG1	5:P:291:ILE:HD11	2.15	0.47
5:P:322:GLY:O	5:P:324:GLU:N	2.47	0.47
1:A:227:ASN:HD22	1:A:227:ASN:H	1.61	0.46
1:B:88:ARG:HG2	1:B:88:ARG:HH11	1.79	0.46
2:C:338:GLU:CA	2:C:341:THR:HG22	2.45	0.46
2:C:602:GLU:C	2:C:614:ARG:HB3	2.40	0.46
2:C:801:VAL:HG11	2:C:828:ALA:HB3	1.96	0.46
2:C:1044:GLY:HA3	4:E:17:TYR:HE1	1.81	0.46
2:C:1056:LYS:HA	3:D:624:ASP:HB2	1.97	0.46
3:D:36:THR:HG22	3:D:38:LYS:HG3	1.97	0.46
3:D:55:ASP:HA	3:D:82:LYS:CG	2.43	0.46
3:D:400:VAL:CA	3:D:442:ASN:O	2.53	0.46
3:D:525:ARG:O	3:D:525:ARG:HG3	2.15	0.46
3:D:553:ARG:HB3	3:D:553:ARG:HH11	1.80	0.46
3:D:788:GLY:O	3:D:792:ILE:CG2	2.63	0.46
3:D:935:LYS:HG3	3:D:939:PHE:CE1	2.50	0.46
1:K:57:TYR:HB3	1:K:141:GLU:HB2	1.96	0.46
1:L:180:GLN:HB2	1:L:196:THR:HG23	1.97	0.46
2:M:345:ARG:C	2:M:347:GLY:H	2.23	0.46
2:M:681:GLY:C	2:M:683:ASN:N	2.73	0.46
2:M:684:PHE:CG	2:M:685:GLU:N	2.81	0.46
3:N:18:ILE:HD12	3:N:518:PRO:HG3	1.97	0.46
3:N:81:THR:O	3:N:82:LYS:O	2.34	0.46
3:N:376:GLU:HB3	3:N:384:VAL:HA	1.96	0.46
3:N:428:LYS:HE2	3:N:451:ASP:HB3	1.97	0.46
3:N:806:PHE:HE1	3:N:813:LEU:HD23	1.80	0.46
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.50	0.46
3:N:1284:GLU:CG	3:N:1291:SER:HB2	2.45	0.46
3:N:1466:VAL:O	3:N:1469:GLY:N	2.48	0.46
5:P:83:GLN:O	5:P:87:GLU:OE1	2.33	0.46
1:A:67:THR:CG2	2:C:609:ASN:OD1	2.63	0.46
1:A:79:ILE:HD12	1:A:79:ILE:C	2.40	0.46
1:A:124:ASN:CG	1:A:127:LEU:HD23	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:218:LEU:CD2	1:B:222:LEU:HD11	2.46	0.46
2:C:31:GLN:HB3	2:C:34:VAL:CG2	2.45	0.46
2:C:191:PHE:HE2	2:C:238:LEU:HD11	1.80	0.46
2:C:428:ARG:NH2	6:D:1525:STD:H292	2.30	0.46
2:C:579:VAL:HG13	2:C:842:ARG:HH22	1.79	0.46
2:C:606:VAL:HG23	2:C:606:VAL:O	2.15	0.46
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.96	0.46
2:C:1058:ASP:CG	2:C:1083:GLU:H	2.23	0.46
3:D:137:PRO:O	3:D:138:LYS:C	2.58	0.46
3:D:455:ARG:HA	3:D:456:MET:HE2	1.96	0.46
3:D:525:ARG:O	3:D:526:PRO:O	2.34	0.46
3:D:1130:ARG:HA	3:D:1130:ARG:HD2	1.72	0.46
3:D:1155:VAL:HG11	3:D:1177:ALA:HB2	1.96	0.46
3:D:1207:TYR:HB3	3:D:1208:ASP:H	1.57	0.46
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.97	0.46
3:D:1274:ILE:HB	3:D:1275:SER:H	1.53	0.46
3:D:1342:GLU:CD	3:D:1342:GLU:N	2.60	0.46
3:D:1344:VAL:HG11	3:D:1421:LEU:HD13	1.96	0.46
3:D:1377:LYS:HG3	3:D:1377:LYS:O	2.14	0.46
5:F:221:ILE:C	5:F:223:ALA:N	2.72	0.46
5:F:304:VAL:O	5:F:308:LEU:HG	2.15	0.46
1:K:43:ILE:HG21	1:K:217:ILE:HB	1.96	0.46
1:K:55:SER:HB3	1:K:143:ARG:HB2	1.97	0.46
1:K:213:GLN:O	1:K:217:ILE:HG13	2.15	0.46
1:L:95:GLN:HE21	1:L:95:GLN:HB2	1.46	0.46
2:M:285:LEU:HD11	2:M:302:VAL:CG2	2.39	0.46
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.96	0.46
3:N:112:ILE:HG22	3:N:512:MET:HE3	1.98	0.46
3:N:141:ILE:CG2	3:N:142:LEU:N	2.74	0.46
3:N:187:LYS:HE2	3:N:213:VAL:N	2.20	0.46
3:N:194:GLY:HA2	3:N:206:ARG:HA	1.97	0.46
3:N:245:LEU:HB2	3:N:366:LYS:HZ1	1.80	0.46
3:N:416:ALA:N	3:N:417:PRO:CD	2.73	0.46
3:N:525:ARG:N	3:N:526:PRO:CD	2.78	0.46
3:N:870:GLY:O	3:N:871:LYS:HG3	2.15	0.46
3:N:1147:ARG:O	3:N:1166:LEU:CD2	2.64	0.46
3:N:1258:ARG:HA	3:N:1261:GLU:HB3	1.97	0.46
5:P:340:SER:O	5:P:341:PRO:C	2.57	0.46
2:C:25:SER:C	2:C:27:ARG:N	2.71	0.46
2:C:75:GLU:H	2:C:93:PRO:HG2	1.80	0.46
2:C:89:THR:HG22	2:C:90:TYR:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:184:MET:HE3	2:C:186:VAL:HG23	1.97	0.46
2:C:226:VAL:HG13	2:C:227:PHE:H	1.80	0.46
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.97	0.46
2:C:589:ARG:CA	2:C:596:TYR:OH	2.64	0.46
2:C:1119:ARG:NH2	3:D:48:ARG:HG2	2.31	0.46
3:D:25:GLU:OE1	3:D:25:GLU:O	2.32	0.46
3:D:130:SER:HG	3:D:132:TYR:HE1	1.55	0.46
3:D:535:PHE:CD1	5:F:258:ILE:HD11	2.50	0.46
3:D:661:MET:SD	3:D:677:LEU:HD21	2.55	0.46
3:D:1153:VAL:HG12	3:D:1155:VAL:CG2	2.44	0.46
3:D:1197:ARG:HD2	3:D:1197:ARG:HA	1.54	0.46
5:F:116:LEU:HD12	5:F:127:ILE:HG21	1.96	0.46
5:F:378:GLY:O	5:F:384:GLU:HG2	2.15	0.46
1:L:197:LEU:CD2	1:L:199:ILE:HG13	2.43	0.46
2:M:170:PRO:HD2	2:M:263:ASP:HB3	1.98	0.46
2:M:432:ARG:NH2	3:N:1047:LYS:HB3	2.29	0.46
2:M:455:LEU:O	2:M:456:ALA:O	2.33	0.46
2:M:774:LEU:C	2:M:774:LEU:HD13	2.40	0.46
3:N:382:GLU:C	3:N:384:VAL:H	2.24	0.46
3:N:536:ALA:CB	5:P:315:VAL:HG12	2.42	0.46
3:N:691:LEU:O	3:N:693:GLU:N	2.49	0.46
3:N:739:ASP:OD1	3:N:743:ASP:OD2	2.32	0.46
3:N:824:ASN:HB3	3:N:825:ALA:H	1.44	0.46
3:N:1128:VAL:O	3:N:1129:THR:C	2.57	0.46
3:N:1258:ARG:O	3:N:1262:LEU:HD13	2.15	0.46
3:N:1274:ILE:CG1	3:N:1334:GLN:HE21	2.27	0.46
3:N:1486:VAL:HG12	4:O:73:LEU:HD22	1.97	0.46
5:P:395:GLU:O	5:P:398:ARG:HD2	2.15	0.46
5:P:420:ASP:O	5:P:421:PHE:C	2.59	0.46
1:A:86:VAL:HG13	1:A:124:ASN:HB2	1.98	0.46
1:A:158:ILE:HG22	1:A:159:LYS:N	2.31	0.46
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.46
1:B:205:VAL:O	1:B:205:VAL:HG23	2.15	0.46
2:C:200:LEU:C	2:C:202:TYR:H	2.23	0.46
2:C:508:ILE:CG2	2:C:513:VAL:HG21	2.43	0.46
2:C:1059:ASP:CG	2:C:1080:SER:HB2	2.39	0.46
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.16	0.46
2:C:1095:LEU:HD21	3:D:603:LEU:HB2	1.98	0.46
3:D:41:ARG:HG3	3:D:42:ASP:N	2.30	0.46
3:D:173:PRO:HD3	3:D:178:LEU:HD12	1.97	0.46
3:D:616:GLN:C	3:D:619:LEU:HB3	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:842:VAL:C	3:D:843:PHE:CD2	2.93	0.46
3:D:968:ASP:O	3:D:971:LEU:HB3	2.16	0.46
3:D:1045:MET:HE2	3:D:1045:MET:CA	2.46	0.46
3:D:1092:GLY:O	3:D:1095:THR:N	2.48	0.46
3:D:1152:GLU:OE1	3:D:1159:ARG:NH2	2.47	0.46
4:E:31:LEU:O	4:E:32:ARG:C	2.58	0.46
4:E:79:LEU:HG	4:E:80:VAL:HG23	1.98	0.46
5:F:137:GLY:CA	5:F:140:ARG:NH2	2.78	0.46
5:F:203:THR:O	5:F:205:ARG:N	2.49	0.46
1:L:62:LEU:HD12	1:L:62:LEU:H	1.80	0.46
2:M:14:PRO:C	2:M:15:LEU:O	2.56	0.46
2:M:124:ASP:HB2	2:M:407:LYS:NZ	2.30	0.46
2:M:212:GLY:HA3	2:M:218:VAL:CG2	2.46	0.46
2:M:571:LEU:HD12	2:M:571:LEU:H	1.81	0.46
2:M:909:ALA:C	2:M:910:LYS:HD2	2.41	0.46
3:N:32:ILE:CG2	3:N:37:LEU:HA	2.46	0.46
3:N:137:PRO:CG	3:N:453:ASP:HB3	2.45	0.46
3:N:500:ARG:O	3:N:504:ASP:N	2.38	0.46
3:N:939:PHE:HA	3:N:942:SER:CB	2.45	0.46
3:N:1097:LYS:HA	3:N:1100:ASP:OD2	2.15	0.46
3:N:1119:SER:HA	3:N:1186:VAL:O	2.16	0.46
3:N:1146:GLY:N	3:N:1166:LEU:O	2.48	0.46
3:N:1238:MET:HG3	3:N:1239:ARG:N	2.30	0.46
3:N:1284:GLU:HB2	3:N:1291:SER:HB2	1.96	0.46
3:N:1434:TRP:HZ3	3:N:1457:ASP:N	2.12	0.46
1:B:197:LEU:HD23	1:B:197:LEU:H	1.80	0.46
2:C:328:LEU:HD23	2:C:437:ARG:HD3	1.98	0.46
2:C:433:THR:O	2:C:437:ARG:HD2	2.16	0.46
2:C:470:PRO:O	2:C:534:VAL:HG23	2.15	0.46
2:C:559:LEU:O	2:C:560:MET:C	2.58	0.46
2:C:572:ILE:CD1	2:C:701:THR:HB	2.46	0.46
2:C:718:GLY:HA3	2:C:761:PHE:CE1	2.50	0.46
2:C:799:ILE:O	2:C:801:VAL:HG13	2.16	0.46
3:D:567:ILE:O	3:D:571:LYS:NZ	2.45	0.46
3:D:835:SER:O	3:D:838:ARG:N	2.48	0.46
3:D:892:ASP:HB3	3:D:895:VAL:HG23	1.96	0.46
3:D:950:GLY:O	3:D:953:ASP:HB2	2.16	0.46
3:D:951:ILE:C	3:D:953:ASP:H	2.23	0.46
3:D:1042:ARG:O	3:D:1042:ARG:HG3	2.16	0.46
5:F:300:ASP:OD2	5:F:302:LYS:HG2	2.16	0.46
1:K:38:ASN:OD1	2:M:979:THR:O	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:71:TYR:N	2:M:71:TYR:CD2	2.82	0.46
2:M:336:VAL:O	2:M:337:GLY:C	2.57	0.46
2:M:572:ILE:CD1	2:M:701:THR:HB	2.46	0.46
2:M:706:GLU:CG	2:M:707:ARG:H	2.28	0.46
3:N:140:ALA:O	3:N:141:ILE:O	2.33	0.46
3:N:217:LYS:HB2	3:N:218:LYS:H	1.52	0.46
3:N:939:PHE:HA	3:N:942:SER:HB2	1.95	0.46
3:N:1046:GLN:HE21	3:N:1046:GLN:HB2	1.60	0.46
3:N:1344:VAL:O	3:N:1347:TYR:HB3	2.16	0.46
4:O:63:TRP:O	4:O:65:MET:N	2.48	0.46
1:A:14:ARG:HH12	1:A:24:VAL:HG21	1.80	0.46
1:A:36:LEU:C	1:A:39:PRO:HD2	2.40	0.46
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.97	0.46
2:C:564:MET:O	2:C:567:GLN:N	2.44	0.46
2:C:625:LEU:HD13	2:C:641:PRO:HG3	1.97	0.46
2:C:679:PHE:CA	3:D:943:THR:HG22	2.44	0.46
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.81	0.46
3:D:141:ILE:N	3:D:141:ILE:CD1	2.67	0.46
3:D:216:VAL:HG12	3:D:217:LYS:N	2.30	0.46
3:D:465:LEU:HD22	3:D:509:PRO:O	2.15	0.46
3:D:714:GLN:NE2	3:D:735:ALA:HB1	2.30	0.46
3:D:1131:SER:O	3:D:1132:LEU:C	2.59	0.46
3:D:1264:GLU:O	3:D:1266:ARG:CD	2.63	0.46
3:D:1380:GLU:HG2	3:D:1381:VAL:N	2.30	0.46
4:E:22:VAL:CG1	4:E:68:LEU:HD22	2.46	0.46
1:K:18:ARG:HH22	1:K:88:ARG:NH2	2.14	0.46
1:K:42:ARG:NH1	2:M:857:ASP:CB	2.73	0.46
1:K:48:ILE:HA	1:K:49:PRO:HD3	1.78	0.46
1:K:73:GLU:OE1	1:K:131:THR:N	2.49	0.46
1:L:14:ARG:HB2	1:L:22:GLU:HB2	1.97	0.46
1:L:195:LEU:HD12	1:L:195:LEU:C	2.40	0.46
2:M:174:LEU:HA	2:M:183:SER:O	2.15	0.46
2:M:212:GLY:HA3	2:M:218:VAL:HG21	1.98	0.46
2:M:226:VAL:HG13	2:M:227:PHE:N	2.30	0.46
2:M:430:VAL:HG23	3:N:1078:ARG:CZ	2.46	0.46
2:M:507:ARG:H	2:M:507:ARG:CD	2.23	0.46
2:M:578:VAL:HG12	2:M:900:ARG:NH1	2.31	0.46
2:M:978:ARG:NH1	2:M:978:ARG:HG3	2.31	0.46
2:M:1102:LEU:HD23	2:M:1106:ASP:C	2.41	0.46
3:N:56:TYR:HA	3:N:80:VAL:CG2	2.45	0.46
3:N:76:CYS:SG	3:N:78:VAL:CG2	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:153:LEU:HD12	3:N:158:TYR:HB2	1.97	0.46
3:N:166:GLN:NE2	3:N:167:GLU:H	2.14	0.46
3:N:493:ARG:NH1	3:N:493:ARG:HB2	2.31	0.46
3:N:660:LYS:HD2	3:N:663:GLU:OE2	2.15	0.46
3:N:1237:THR:CG2	3:N:1238:MET:N	2.79	0.46
5:P:369:LEU:O	5:P:373:LYS:HD3	2.16	0.46
2:C:843:HIS:CD2	2:C:884:GLN:CA	2.97	0.46
2:C:928:LYS:HE3	2:C:928:LYS:HA	1.97	0.46
2:C:987:ILE:HG12	3:D:948:THR:HG23	1.98	0.46
3:D:171:LEU:C	3:D:171:LEU:HD12	2.41	0.46
3:D:426:LYS:CB	5:F:134:LYS:O	2.57	0.46
3:D:729:HIS:CG	3:D:730:PRO:HD2	2.50	0.46
3:D:820:GLU:HA	3:D:825:ALA:O	2.15	0.46
3:D:996:TRP:O	3:D:997:THR:C	2.58	0.46
3:D:1087:ARG:O	3:D:1091:SER:HB2	2.15	0.46
4:E:17:TYR:O	4:E:21:VAL:HG23	2.15	0.46
4:E:48:MET:N	4:E:54:LEU:HB2	2.31	0.46
5:F:239:ALA:O	5:F:240:THR:C	2.59	0.46
5:F:361:LEU:HD22	5:F:404:ALA:HB1	1.97	0.46
1:L:201:THR:HG23	1:L:207:PRO:HG3	1.98	0.46
2:M:223:ASP:O	2:M:225:SER:N	2.48	0.46
2:M:302:VAL:C	2:M:305:PRO:HD2	2.41	0.46
2:M:376:ARG:CB	2:M:377:PRO:HD3	2.36	0.46
2:M:553:ASP:HA	2:M:881:ASN:HA	1.96	0.46
4:O:51:LEU:HD12	4:O:52:GLU:H	1.79	0.46
1:A:13:VAL:CG1	1:A:14:ARG:H	2.29	0.46
2:C:27:ARG:O	2:C:28:ARG:C	2.58	0.46
2:C:68:PHE:HE1	2:C:96:ALA:HB1	1.80	0.46
2:C:485:TYR:HD1	2:C:485:TYR:H	1.64	0.46
2:C:611:ILE:HG13	2:C:625:LEU:HD11	1.96	0.46
2:C:672:VAL:HG22	2:C:868:ASP:OD2	2.16	0.46
2:C:751:PRO:HG2	2:C:795:GLY:O	2.16	0.46
2:C:892:LEU:HD12	2:C:892:LEU:C	2.41	0.46
2:C:918:LEU:O	2:C:921:ALA:HB3	2.15	0.46
2:C:984:GLU:CG	3:D:944:THR:O	2.61	0.46
3:D:237:LYS:H	3:D:238:PRO:CD	2.28	0.46
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.79	0.46
3:D:1262:LEU:C	3:D:1264:GLU:N	2.73	0.46
4:E:63:TRP:O	4:E:64:ALA:C	2.58	0.46
5:F:265:VAL:C	5:F:267:THR:N	2.73	0.46
1:K:110:LYS:C	1:K:112:ARG:N	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:224:TYR:O	1:L:11:PHE:HB2	2.15	0.46
2:M:100:LEU:HB2	2:M:368:THR:HG23	1.98	0.46
2:M:750:LYS:HB2	3:N:681:ARG:HH21	1.80	0.46
2:M:897:LEU:HD13	2:M:921:ALA:HB2	1.97	0.46
3:N:55:ASP:C	3:N:57:GLU:H	2.23	0.46
3:N:168:THR:HB	3:N:393:ILE:HG13	1.96	0.46
3:N:225:LEU:HB2	3:N:227:LEU:HD22	1.97	0.46
3:N:396:VAL:HG13	3:N:447:VAL:CA	2.43	0.46
3:N:1194:CYS:SG	3:N:1373:ARG:NH2	2.88	0.46
4:O:46:PRO:HB2	4:O:54:LEU:HD22	1.97	0.46
5:P:134:LYS:C	5:P:135:ILE:HG12	2.39	0.46
5:P:288:TYR:O	5:P:291:ILE:HG22	2.16	0.46
5:P:400:ILE:O	5:P:404:ALA:HB3	2.15	0.46
1:A:54:THR:HG23	1:A:156:HIS:CD2	2.51	0.46
1:B:9:PRO:HB3	1:B:25:LEU:CG	2.44	0.46
1:B:25:LEU:C	1:B:25:LEU:CD2	2.85	0.46
2:C:20:GLU:OE2	2:C:460:ARG:HB3	2.15	0.46
2:C:23:VAL:O	2:C:25:SER:N	2.49	0.46
2:C:428:ARG:NH1	6:D:1525:STD:H141	2.31	0.46
2:C:589:ARG:HA	2:C:596:TYR:CZ	2.51	0.46
2:C:1004:LYS:O	2:C:1005:MET:C	2.58	0.46
3:D:223:LEU:HD13	3:D:223:LEU:H	1.81	0.46
3:D:433:GLY:H	3:D:448:GLU:CA	2.28	0.46
3:D:775:GLY:HA3	3:D:1145:TYR:HE1	1.81	0.46
3:D:858:VAL:HG11	3:D:864:VAL:CG2	2.46	0.46
3:D:974:ILE:HD13	3:D:991:GLN:CG	2.46	0.46
3:D:1290:LEU:HD23	3:D:1290:LEU:C	2.39	0.46
5:F:163:LEU:HB3	5:F:174:LEU:CD1	2.46	0.46
1:K:181:VAL:CG1	2:M:938:LYS:HD2	2.46	0.46
1:L:206:THR:CG2	1:L:209:GLU:OE2	2.64	0.46
2:M:9:ILE:O	2:M:10:ARG:C	2.59	0.46
2:M:124:ASP:HB2	2:M:407:LYS:HZ1	1.79	0.46
2:M:430:VAL:O	2:M:430:VAL:HG12	2.15	0.46
2:M:627:ARG:NH1	2:M:627:ARG:HB3	2.31	0.46
2:M:762:LYS:HB2	2:M:762:LYS:NZ	2.31	0.46
2:M:1094:ALA:CB	3:N:520:LEU:HD13	2.46	0.46
3:N:35:ARG:NH1	3:N:35:ARG:HB3	2.31	0.46
3:N:96:ALA:HB3	3:N:554:LEU:HG	1.98	0.46
3:N:109:PRO:O	3:N:110:SER:C	2.59	0.46
3:N:237:LYS:CB	3:N:238:PRO:HD3	2.40	0.46
3:N:553:ARG:O	3:N:554:LEU:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:554:LEU:HD12	3:N:558:LEU:CD1	2.46	0.46
3:N:633:VAL:HB	3:N:740:PHE:CE1	2.51	0.46
3:N:675:ARG:HA	3:N:678:GLU:CD	2.41	0.46
3:N:757:ALA:O	3:N:758:GLU:C	2.58	0.46
3:N:806:PHE:C	3:N:808:THR:N	2.74	0.46
3:N:1188:VAL:CG2	3:N:1189:ARG:N	2.79	0.46
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.16	0.46
5:P:161:GLN:C	5:P:163:LEU:N	2.72	0.46
5:P:213:ILE:O	5:P:217:ASN:ND2	2.49	0.46
5:P:386:VAL:HG13	5:P:394:ARG:CG	2.45	0.46
5:P:406:ARG:CB	5:P:409:LYS:HE2	2.46	0.46
1:A:18:ARG:HH11	1:A:123:MET:HE1	1.81	0.46
1:A:211:LEU:HD12	1:A:211:LEU:O	2.15	0.46
1:B:92:PRO:C	1:B:94:LEU:H	2.24	0.46
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.97	0.46
2:C:637:LEU:HD12	2:C:637:LEU:N	2.31	0.46
2:C:683:ASN:HD22	2:C:872:ASN:HB2	1.80	0.46
2:C:920:GLN:HG2	2:C:920:GLN:O	2.14	0.46
2:C:1008:ARG:HG2	2:C:1009:SER:H	1.81	0.46
2:C:1038:TRP:HA	2:C:1041:GLU:HB2	1.97	0.46
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.46	0.46
3:D:133:ILE:CG2	3:D:134:VAL:N	2.79	0.46
3:D:179:VAL:HG13	3:D:389:GLU:CG	2.44	0.46
3:D:211:VAL:HG13	3:D:393:ILE:HG22	1.97	0.46
3:D:684:LYS:C	3:D:686:GLU:H	2.23	0.46
3:D:693:GLU:HA	4:E:48:MET:HE1	1.97	0.46
3:D:849:ALA:O	3:D:853:VAL:HG23	2.15	0.46
3:D:1047:LYS:HB3	3:D:1048:PRO:HD2	1.98	0.46
3:D:1149:LEU:CD2	3:D:1166:LEU:HD21	2.46	0.46
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.81	0.46
3:D:1290:LEU:HD23	3:D:1291:SER:N	2.29	0.46
3:D:1417:TRP:CD1	3:D:1417:TRP:C	2.93	0.46
4:E:51:LEU:HD12	4:E:51:LEU:C	2.40	0.46
5:F:289:GLU:O	5:F:293:GLU:HG3	2.16	0.46
5:F:384:GLU:O	5:F:384:GLU:OE2	2.34	0.46
5:F:420:ASP:O	5:F:421:PHE:C	2.59	0.46
1:L:76:VAL:O	1:L:80:LEU:HB2	2.16	0.46
2:M:163:ILE:HA	2:M:164:PRO:HD3	1.72	0.46
2:M:227:PHE:HA	2:M:230:ARG:NE	2.30	0.46
2:M:230:ARG:HB2	2:M:233:GLU:CB	2.41	0.46
2:M:325:ILE:O	2:M:327:HIS:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:423:ALA:HA	6:M:1120:STD:H143	1.98	0.46
2:M:471:TYR:CD1	2:M:486:MET:CE	2.98	0.46
2:M:711:GLU:HB3	2:M:819:VAL:HG13	1.98	0.46
2:M:1042:ALA:HB1	3:N:710:ARG:HE	1.80	0.46
2:M:1119:ARG:NE	2:M:1119:ARG:HA	2.30	0.46
3:N:154:THR:HG22	3:N:155:ASP:N	2.29	0.46
3:N:166:GLN:H	3:N:395:VAL:HB	1.81	0.46
3:N:422:ALA:HB1	5:P:178:ARG:NE	2.31	0.46
3:N:499:VAL:O	3:N:503:LEU:HB2	2.16	0.46
3:N:504:ASP:C	3:N:506:GLY:N	2.73	0.46
3:N:550:ARG:CZ	3:N:573:MET:HB3	2.46	0.46
3:N:638:LYS:O	3:N:640:HIS:N	2.49	0.46
3:N:647:ARG:NH1	3:N:680:GLN:OE1	2.48	0.46
3:N:1094:LEU:O	3:N:1095:THR:C	2.59	0.46
3:N:1450:ALA:CA	3:N:1455:LYS:HG3	2.40	0.46
4:O:41:GLU:HB3	4:O:42:PRO:HD3	1.97	0.46
5:P:222:ARG:HD2	5:P:242:TRP:HE3	1.81	0.46
1:B:152:PRO:HD2	1:B:155:LYS:HB2	1.98	0.45
2:C:139:GLN:NE2	2:C:415:PRO:CD	2.76	0.45
2:C:197:LEU:O	2:C:202:TYR:HB2	2.16	0.45
2:C:544:THR:C	2:C:546:LEU:H	2.24	0.45
2:C:571:LEU:HD12	2:C:571:LEU:N	2.31	0.45
2:C:602:GLU:HG2	2:C:646:GLY:HA2	1.98	0.45
2:C:787:ASP:CG	2:C:787:ASP:O	2.58	0.45
2:C:939:ARG:HB3	2:C:982:PRO:HG2	1.97	0.45
3:D:599:PRO:O	3:D:601:ARG:N	2.49	0.45
3:D:806:PHE:O	3:D:807:ALA:C	2.58	0.45
3:D:1040:GLY:O	3:D:1041:LEU:HB3	2.15	0.45
3:D:1253:THR:CG2	3:D:1258:ARG:HB2	2.40	0.45
5:F:386:VAL:CG1	5:F:387:GLY:H	2.10	0.45
1:K:55:SER:C	1:K:56:VAL:HG23	2.41	0.45
1:K:170:VAL:HG23	1:K:170:VAL:O	2.16	0.45
1:L:162:ILE:HG12	1:L:162:ILE:O	2.15	0.45
2:M:3:ILE:HD13	2:M:900:ARG:O	2.15	0.45
2:M:5:ARG:HG3	2:M:5:ARG:O	2.16	0.45
2:M:73:LEU:HD21	2:M:118:ILE:HD11	1.98	0.45
2:M:565:GLN:C	2:M:567:GLN:H	2.24	0.45
2:M:706:GLU:CG	2:M:707:ARG:N	2.79	0.45
3:N:131:LYS:HE2	3:N:456:MET:CE	2.46	0.45
3:N:175:VAL:O	3:N:217:LYS:HE2	2.16	0.45
3:N:223:LEU:HD23	3:N:365:ASP:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.56	0.45
3:N:604:THR:O	3:N:607:LEU:N	2.37	0.45
3:N:1068:LEU:O	3:N:1069:GLU:C	2.60	0.45
3:N:1124:GLN:N	3:N:1133:ARG:O	2.41	0.45
3:N:1167:SER:O	3:N:1171:VAL:HG23	2.16	0.45
3:N:1324:PRO:CG	3:N:1330:ILE:HD11	2.45	0.45
3:N:1413:THR:O	3:N:1414:PRO:C	2.59	0.45
5:P:140:ARG:HH11	5:P:140:ARG:HG3	1.82	0.45
1:A:34:VAL:HB	1:B:42:ARG:NE	2.31	0.45
1:A:161:ARG:CG	1:A:161:ARG:NH1	2.77	0.45
1:A:182:GLU:O	1:A:183:ASP:C	2.59	0.45
1:B:27:PRO:CG	1:B:186:LEU:HD12	2.41	0.45
2:C:182:VAL:HG12	2:C:183:SER:H	1.82	0.45
2:C:185:LYS:N	2:C:185:LYS:CE	2.78	0.45
2:C:435:TYR:OH	2:C:498:GLN:NE2	2.42	0.45
2:C:448:ASN:HB3	2:C:452:ILE:HD13	1.97	0.45
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.99	0.45
2:C:700:TYR:CB	2:C:833:LEU:HD22	2.43	0.45
2:C:1043:TYR:CZ	3:D:763:MET:HG3	2.51	0.45
3:D:29:PRO:HG2	3:D:549:ASN:ND2	2.31	0.45
3:D:139:GLY:HA2	3:D:452:ILE:HD12	1.97	0.45
3:D:375:GLU:HB3	3:D:385:VAL:HG11	1.97	0.45
3:D:598:ARG:HA	3:D:599:PRO:HD3	1.75	0.45
3:D:701:LEU:C	3:D:702:LEU:HD12	2.41	0.45
3:D:787:LEU:HD21	3:D:947:ILE:HD11	1.98	0.45
3:D:1010:ASN:OD1	3:D:1014:ASN:ND2	2.48	0.45
3:D:1066:THR:HG23	3:D:1069:GLU:OE1	2.15	0.45
3:D:1158:VAL:HG12	3:D:1160:LEU:HD23	1.98	0.45
3:D:1476:THR:O	3:D:1476:THR:CG2	2.63	0.45
5:F:131:VAL:O	5:F:135:ILE:HG12	2.16	0.45
1:K:97:VAL:CG1	1:K:99:LEU:HD12	2.46	0.45
1:L:42:ARG:HG2	1:L:42:ARG:NH1	2.31	0.45
2:M:415:PRO:HD2	2:M:418:LEU:HB2	1.98	0.45
2:M:474:VAL:HG13	2:M:474:VAL:O	2.16	0.45
2:M:499:ALA:O	2:M:501:THR:N	2.49	0.45
2:M:681:GLY:C	2:M:683:ASN:H	2.23	0.45
2:M:1018:GLN:CG	3:N:87:ARG:HH22	2.28	0.45
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.97	0.45
3:N:162:ARG:HG2	3:N:163:TYR:N	2.31	0.45
3:N:653:PHE:O	3:N:654:LYS:C	2.60	0.45
3:N:710:ARG:C	3:N:712:GLY:H	2.23	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1116:ASN:O	3:N:1117:TYR:HB3	2.16	0.45
3:N:1214:PRO:O	3:N:1215:VAL:O	2.34	0.45
3:N:1274:ILE:HD11	3:N:1334:GLN:NE2	2.30	0.45
4:O:41:GLU:H	4:O:42:PRO:CD	2.28	0.45
5:P:181:GLU:O	5:P:184:ARG:HB3	2.16	0.45
1:A:210:ALA:O	1:A:211:LEU:C	2.59	0.45
1:B:109:VAL:C	1:B:110:LYS:HG2	2.42	0.45
2:C:35:PRO:C	2:C:37:GLU:N	2.72	0.45
2:C:54:ILE:HG23	2:C:54:ILE:O	2.16	0.45
2:C:204:GLN:CD	2:C:222:MET:HA	2.41	0.45
2:C:231:PRO:C	2:C:233:GLU:H	2.25	0.45
2:C:491:GLU:O	2:C:492:ASP:C	2.59	0.45
2:C:678:PRO:HA	2:C:683:ASN:HD21	1.82	0.45
2:C:827:VAL:HG12	2:C:828:ALA:N	2.31	0.45
3:D:67:ARG:CB	5:F:375:LEU:HD11	2.45	0.45
3:D:158:TYR:CE1	3:D:454:ALA:HB3	2.51	0.45
3:D:172:PRO:HA	3:D:173:PRO:HD3	1.73	0.45
3:D:223:LEU:CD1	3:D:365:ASP:H	2.28	0.45
3:D:508:ARG:HG2	3:D:508:ARG:HH11	1.81	0.45
3:D:612:GLY:O	3:D:615:ARG:HB2	2.15	0.45
3:D:674:ARG:CZ	5:F:342:VAL:HG11	2.46	0.45
3:D:939:PHE:O	3:D:943:THR:HG23	2.16	0.45
3:D:976:GLN:C	3:D:978:TYR:N	2.75	0.45
3:D:1036:ARG:HH21	3:D:1042:ARG:HA	1.81	0.45
3:D:1133:ARG:HG2	3:D:1134:LEU:O	2.16	0.45
3:D:1260:ILE:O	3:D:1262:LEU:N	2.49	0.45
5:F:77:THR:C	5:F:80:PRO:HD2	2.42	0.45
1:K:132:LEU:N	1:K:132:LEU:CD1	2.79	0.45
1:K:188:GLN:HE21	1:K:188:GLN:HB2	1.60	0.45
2:M:18:LEU:O	2:M:21:ILE:HD13	2.16	0.45
2:M:100:LEU:HD22	2:M:368:THR:OG1	2.17	0.45
2:M:307:LEU:HG	2:M:311:PHE:CE1	2.51	0.45
2:M:404:LEU:HD12	2:M:404:LEU:HA	1.79	0.45
2:M:578:VAL:HG13	2:M:671:ASN:CB	2.46	0.45
2:M:626:ARG:O	2:M:627:ARG:C	2.59	0.45
2:M:807:ARG:HB2	2:M:807:ARG:HH11	1.81	0.45
2:M:948:GLU:OE2	2:M:955:PRO:HB3	2.17	0.45
2:M:1103:ASP:O	2:M:1104:GLU:C	2.59	0.45
3:N:97:THR:O	3:N:98:PRO:O	2.34	0.45
3:N:576:GLU:O	3:N:579:ASP:HB2	2.16	0.45
3:N:827:ILE:HA	3:N:836:VAL:CG1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1273:VAL:HG23	3:N:1325:LEU:HB2	1.98	0.45
3:N:1377:LYS:HE3	3:N:1394:VAL:HG13	1.97	0.45
3:N:1488:ASP:OD1	4:O:26:ARG:NH1	2.50	0.45
1:A:195:LEU:HD12	1:A:196:THR:N	2.30	0.45
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.16	0.45
2:C:27:ARG:C	2:C:29:ALA:N	2.73	0.45
2:C:77:PRO:C	2:C:78:PHE:CD1	2.94	0.45
2:C:140:ILE:HG21	2:C:331:ARG:HH12	1.81	0.45
2:C:252:LYS:HE2	2:C:296:GLY:CA	2.44	0.45
2:C:470:PRO:CB	2:C:534:VAL:HG21	2.47	0.45
3:D:135:LEU:HD22	3:D:148:GLU:C	2.41	0.45
3:D:179:VAL:HG11	3:D:217:LYS:HZ3	1.79	0.45
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.30	0.45
3:D:608:SER:HB3	3:D:1443:THR:OG1	2.17	0.45
3:D:1084:THR:C	3:D:1086:LEU:H	2.24	0.45
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.31	0.45
3:D:1197:ARG:NH2	3:D:1377:LYS:HD2	2.32	0.45
3:D:1233:GLY:O	3:D:1236:LEU:HG	2.15	0.45
3:D:1488:ASP:HB3	4:E:39:VAL:CG1	2.42	0.45
1:K:37:GLY:O	1:K:40:LEU:HB2	2.16	0.45
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.51	0.45
1:L:81:ASN:OD1	3:N:867:ARG:NH1	2.49	0.45
1:L:100:LEU:N	1:L:100:LEU:HD12	2.31	0.45
1:L:132:LEU:HD22	1:L:138:LEU:HB2	1.95	0.45
2:M:376:ARG:HA	2:M:376:ARG:NE	2.31	0.45
2:M:824:ARG:HG2	2:M:824:ARG:HH11	1.80	0.45
3:N:14:SER:OG	3:N:511:TRP:CE2	2.69	0.45
3:N:55:ASP:HA	3:N:82:LYS:HG2	1.97	0.45
3:N:606:ILE:O	3:N:606:ILE:HG22	2.16	0.45
3:N:1198:TYR:HE2	3:N:1377:LYS:NZ	2.14	0.45
3:N:1388:ARG:HG3	3:N:1389:LEU:CD2	2.41	0.45
4:O:44:GLU:O	4:O:45:ARG:HD3	2.17	0.45
5:P:376:ILE:HG22	5:P:377:ASP:N	2.31	0.45
2:C:770:GLU:HG2	3:D:65:ARG:NH2	2.31	0.45
2:C:978:ARG:HE	2:C:978:ARG:HB2	1.47	0.45
2:C:1006:HIS:O	2:C:1007:ALA:HB2	2.15	0.45
3:D:377:VAL:HG13	3:D:382:GLU:CG	2.41	0.45
3:D:601:ARG:O	3:D:601:ARG:CG	2.63	0.45
3:D:761:ILE:O	3:D:767:HIS:CD2	2.69	0.45
3:D:840:LYS:CD	3:D:841:TYR:CZ	3.00	0.45
3:D:914:LEU:HD21	3:D:930:LEU:HD21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1109:GLU:OE1	3:D:1110:ALA:C	2.59	0.45
3:D:1336:LEU:HA	3:D:1344:VAL:CG2	2.47	0.45
5:F:194:LEU:HD13	5:F:194:LEU:C	2.41	0.45
1:K:93:SER:HG	1:K:94:LEU:HD12	1.82	0.45
1:K:117:VAL:O	1:K:118:ALA:C	2.60	0.45
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.51	0.45
2:M:27:ARG:HB3	2:M:27:ARG:CZ	2.46	0.45
2:M:216:GLU:CD	2:M:216:GLU:H	2.24	0.45
2:M:455:LEU:HD13	2:M:456:ALA:O	2.16	0.45
2:M:539:VAL:HG21	3:N:1067:VAL:HG11	1.98	0.45
2:M:958:THR:HG23	2:M:961:GLU:H	1.82	0.45
2:M:1064:ASN:HD21	5:P:344:ALA:CB	2.29	0.45
2:M:1107:ASN:CG	2:M:1108:PRO:HD2	2.42	0.45
3:N:56:TYR:C	3:N:80:VAL:HG21	2.41	0.45
3:N:141:ILE:H	3:N:141:ILE:CD1	2.15	0.45
3:N:1094:LEU:HD13	3:N:1260:ILE:HD13	1.97	0.45
3:N:1158:VAL:CG1	3:N:1159:ARG:N	2.80	0.45
3:N:1188:VAL:HG22	3:N:1189:ARG:N	2.31	0.45
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.81	0.45
5:P:326:ASP:OD2	5:P:326:ASP:N	2.49	0.45
1:B:43:ILE:C	1:B:45:LEU:H	2.25	0.45
2:C:9:ILE:O	2:C:11:GLU:N	2.50	0.45
2:C:48:PHE:O	2:C:49:ARG:C	2.59	0.45
2:C:159:ILE:HG21	2:C:175:GLU:OE1	2.17	0.45
2:C:250:ARG:CZ	2:C:253:ALA:HB1	2.46	0.45
2:C:536:PRO:O	2:C:537:LYS:C	2.60	0.45
2:C:671:ASN:ND2	2:C:671:ASN:H	2.12	0.45
2:C:756:VAL:HG23	2:C:825:VAL:HG21	1.98	0.45
2:C:923:GLU:C	2:C:925:TYR:N	2.72	0.45
3:D:81:THR:O	3:D:82:LYS:O	2.35	0.45
3:D:119:SER:H	3:D:123:LEU:HD13	1.82	0.45
3:D:177:ALA:O	3:D:179:VAL:N	2.49	0.45
3:D:200:ASP:O	3:D:201:GLY:O	2.35	0.45
3:D:427:VAL:HG21	3:D:435:VAL:HB	1.97	0.45
3:D:963:TYR:CD2	3:D:1002:LYS:HB3	2.51	0.45
3:D:1284:GLU:OE1	3:D:1284:GLU:HA	2.16	0.45
3:D:1296:SER:C	3:D:1298:GLY:H	2.24	0.45
5:F:94:LEU:HD12	5:F:97:GLU:N	2.31	0.45
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.47	0.45
1:K:43:ILE:CD1	1:L:35:THR:HG21	2.43	0.45
1:K:46:SER:O	1:K:47:SER:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:20:TYR:C	1:L:207:PRO:HG2	2.41	0.45
1:L:92:PRO:C	1:L:94:LEU:N	2.72	0.45
2:M:164:PRO:HD2	2:M:170:PRO:O	2.17	0.45
2:M:987:ILE:HG22	2:M:988:VAL:N	2.31	0.45
2:M:1021:LEU:HG	2:M:1022:GLY:H	1.81	0.45
3:N:128:TYR:CE1	3:N:461:ILE:HG13	2.52	0.45
3:N:224:ARG:HD2	3:N:225:LEU:O	2.17	0.45
3:N:604:THR:O	3:N:606:ILE:N	2.50	0.45
3:N:1008:PHE:C	3:N:1010:ASN:N	2.73	0.45
3:N:1066:THR:HG23	3:N:1069:GLU:CG	2.47	0.45
3:N:1335:LEU:HD23	3:N:1335:LEU:C	2.41	0.45
3:N:1451:ALA:O	3:N:1453:ALA:N	2.49	0.45
5:P:403:LYS:O	5:P:407:LYS:HG2	2.17	0.45
1:A:224:TYR:CG	1:B:9:PRO:HG2	2.52	0.45
2:C:9:ILE:HD11	2:C:907:ASP:HB3	1.99	0.45
2:C:185:LYS:H	2:C:185:LYS:CE	2.29	0.45
2:C:232:GLU:O	2:C:232:GLU:HG2	2.17	0.45
2:C:334:ARG:HB3	2:C:338:GLU:OE2	2.16	0.45
2:C:482:GLU:OE2	2:C:484:VAL:HG23	2.16	0.45
2:C:513:VAL:O	2:C:524:VAL:HG12	2.17	0.45
2:C:599:GLU:CG	2:C:600:ASP:N	2.79	0.45
2:C:742:VAL:CG1	2:C:743:VAL:N	2.79	0.45
2:C:911:GLU:OE1	3:D:1062:ARG:NH2	2.45	0.45
3:D:95:LEU:HD12	3:D:95:LEU:H	1.80	0.45
3:D:558:LEU:O	3:D:561:GLY:O	2.34	0.45
3:D:936:TYR:C	3:D:936:TYR:CD2	2.93	0.45
3:D:962:GLN:C	3:D:964:LEU:N	2.73	0.45
5:F:151:LEU:O	5:F:152:ASP:C	2.60	0.45
5:F:386:VAL:C	5:F:388:ALA:N	2.74	0.45
1:K:80:LEU:HD12	1:K:83:LYS:HD3	1.97	0.45
2:M:384:GLU:HG2	2:M:384:GLU:O	2.16	0.45
2:M:611:ILE:HD11	2:M:641:PRO:HB3	1.99	0.45
2:M:777:ILE:C	2:M:778:PHE:HD1	2.24	0.45
3:N:59:ALA:HB3	3:N:78:VAL:CG2	2.44	0.45
3:N:75:ARG:HE	3:N:75:ARG:N	2.15	0.45
3:N:129:PHE:O	3:N:572:ARG:HG3	2.17	0.45
3:N:237:LYS:HB3	3:N:238:PRO:CD	2.39	0.45
3:N:653:PHE:N	3:N:653:PHE:CD1	2.84	0.45
3:N:902:LEU:C	3:N:904:VAL:H	2.23	0.45
3:N:1122:LEU:HD23	3:N:1178:ALA:HB2	1.98	0.45
3:N:1296:SER:OG	3:N:1297:GLU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1382:THR:OG1	3:N:1416:ALA:HB3	2.17	0.45
5:P:261:PRO:O	5:P:264:MET:HB2	2.17	0.45
5:P:400:ILE:HG23	5:P:404:ALA:CB	2.47	0.45
1:A:68:ILE:HB	1:A:71:VAL:HB	1.99	0.45
2:C:188:LYS:HD3	2:C:189:ARG:N	2.32	0.45
2:C:490:GLU:HG3	2:C:493:ARG:CZ	2.47	0.45
2:C:551:GLU:HG2	2:C:905:ILE:O	2.17	0.45
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.99	0.45
2:C:705:ILE:HD12	2:C:705:ILE:N	2.31	0.45
2:C:923:GLU:O	2:C:925:TYR:N	2.49	0.45
3:D:456:MET:C	3:D:457:GLY:O	2.57	0.45
3:D:521:PRO:C	3:D:525:ARG:NH1	2.75	0.45
3:D:536:ALA:HA	5:F:315:VAL:O	2.17	0.45
3:D:1129:THR:CG2	3:D:1130:ARG:H	2.05	0.45
3:D:1281:VAL:HG12	3:D:1315:ASP:HA	1.98	0.45
3:D:1434:TRP:CD1	3:D:1434:TRP:C	2.92	0.45
3:D:1438:ALA:C	3:D:1440:PHE:N	2.75	0.45
4:E:26:ARG:NH2	4:E:38:THR:HA	2.31	0.45
1:K:33:GLY:HA3	1:K:181:VAL:HG22	1.99	0.45
1:K:88:ARG:HD2	1:K:121:GLU:OE1	2.17	0.45
1:K:129:ILE:O	1:K:130:ALA:HB2	2.17	0.45
2:M:437:ARG:HH22	2:M:491:GLU:CD	2.24	0.45
3:N:54:LYS:HD3	3:N:57:GLU:HB2	1.99	0.45
3:N:558:LEU:HD13	5:P:145:PRO:C	2.41	0.45
3:N:568:ARG:O	3:N:569:ASN:C	2.58	0.45
3:N:623:VAL:HG12	3:N:625:TYR:H	1.82	0.45
3:N:645:PRO:O	3:N:646:LYS:C	2.59	0.45
3:N:825:ALA:HA	3:N:826:PRO:HD3	1.74	0.45
3:N:1062:ARG:HD3	3:N:1062:ARG:O	2.16	0.45
3:N:1109:GLU:OE1	3:N:1111:ASP:N	2.50	0.45
3:N:1336:LEU:HD22	3:N:1421:LEU:HB2	1.99	0.45
5:P:110:MET:C	5:P:112:ALA:N	2.72	0.45
5:P:349:LEU:O	5:P:353:GLU:HB2	2.16	0.45
5:P:419:ARG:O	5:P:421:PHE:N	2.49	0.45
1:B:215:VAL:HG23	1:B:216:GLU:N	2.32	0.45
2:C:31:GLN:OE1	2:C:40:GLU:CD	2.59	0.45
2:C:41:ASN:HD22	2:C:41:ASN:C	2.24	0.45
2:C:325:ILE:O	2:C:325:ILE:HG22	2.17	0.45
2:C:607:ASP:CB	2:C:610:ARG:H	2.30	0.45
2:C:643:VAL:HG23	2:C:655:LEU:HA	1.98	0.45
3:D:34:TYR:C	3:D:36:THR:N	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:72:VAL:HG12	3:D:73:CYS:O	2.17	0.45
3:D:396:VAL:HG13	3:D:447:VAL:N	2.31	0.45
3:D:806:PHE:HD1	3:D:812:ALA:CB	2.28	0.45
5:F:78:SER:HB2	5:F:82:ARG:NH2	2.32	0.45
1:K:42:ARG:NH1	2:M:978:ARG:HA	2.32	0.45
1:L:82:LEU:O	1:L:85:LEU:HB3	2.17	0.45
2:M:15:LEU:HD21	2:M:583:LEU:CD2	2.47	0.45
2:M:42:VAL:HG12	2:M:43:GLY:N	2.32	0.45
2:M:413:LEU:HD12	2:M:451:LEU:HD22	1.99	0.45
2:M:572:ILE:HG13	2:M:573:ARG:H	1.82	0.45
2:M:724:ARG:O	2:M:724:ARG:HG2	2.17	0.45
2:M:800:VAL:C	2:M:801:VAL:HG13	2.42	0.45
2:M:841:ASN:CG	2:M:842:ARG:N	2.75	0.45
2:M:1000:MET:HE3	2:M:1001:VAL:N	2.20	0.45
3:N:150:ARG:NH1	3:N:464:LEU:HD22	2.32	0.45
3:N:598:ARG:HG2	3:N:599:PRO:O	2.17	0.45
3:N:702:LEU:HD22	3:N:716:PHE:CE1	2.52	0.45
3:N:774:SER:C	3:N:776:GLU:N	2.75	0.45
3:N:1271:LYS:CE	3:N:1334:GLN:HE22	2.30	0.45
3:N:1271:LYS:CE	3:N:1334:GLN:NE2	2.79	0.45
4:O:63:TRP:C	4:O:65:MET:N	2.75	0.45
5:P:139:ALA:HB1	5:P:152:ASP:HB3	1.96	0.45
3:D:25:GLU:OE1	3:D:25:GLU:C	2.60	0.45
3:D:217:LYS:HE3	3:D:389:GLU:HB3	1.99	0.45
3:D:506:GLY:C	3:D:507:ASN:HD22	2.25	0.45
3:D:616:GLN:HA	3:D:619:LEU:HD22	1.99	0.45
3:D:1057:VAL:O	3:D:1058:ARG:C	2.59	0.45
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.17	0.45
5:F:107:GLU:C	5:F:109:GLY:N	2.72	0.45
1:K:178:ALA:HB2	2:M:864:GLY:HA2	1.99	0.45
2:M:439:CYS:HA	2:M:440:PRO:HD3	1.74	0.45
2:M:501:THR:CB	2:M:513:VAL:HG11	2.46	0.45
2:M:514:VAL:HG11	2:M:516:ARG:CZ	2.47	0.45
2:M:527:GLU:H	2:M:527:GLU:CD	2.24	0.45
2:M:693:GLU:O	2:M:696:LYS:HB2	2.17	0.45
2:M:697:ARG:O	2:M:699:PHE:N	2.46	0.45
2:M:1014:SER:CB	2:M:1017:THR:HG23	2.47	0.45
2:M:1109:VAL:HG11	3:N:3:LYS:O	2.17	0.45
6:M:1120:STD:H243	3:N:1090:ASP:CG	2.42	0.45
3:N:97:THR:O	3:N:98:PRO:C	2.60	0.45
3:N:592:THR:N	3:N:600:LEU:HD21	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:776:GLU:HA	3:N:777:PRO:HD3	1.86	0.45
3:N:781:PRO:HB2	3:N:911:LEU:CD2	2.32	0.45
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.47	0.45
3:N:1290:LEU:HD12	3:N:1305:LEU:O	2.17	0.45
3:N:1440:PHE:HB2	3:N:1442:ASN:ND2	2.32	0.45
5:P:77:THR:HA	5:P:80:PRO:HD2	1.99	0.45
5:P:114:LYS:O	5:P:116:LEU:N	2.50	0.45
5:P:202:TYR:OH	5:P:244:ARG:HG2	2.16	0.45
1:B:220:GLU:O	1:B:223:THR:HG22	2.17	0.44
2:C:501:THR:O	2:C:502:PRO:C	2.60	0.44
2:C:603:VAL:HG23	2:C:647:GLN:O	2.17	0.44
2:C:708:TYR:HE2	2:C:793:PRO:CD	2.29	0.44
2:C:736:ASP:OD1	2:C:747:ALA:HB1	2.16	0.44
2:C:940:GLU:O	2:C:944:LEU:HD12	2.17	0.44
2:C:1034:GLU:HG3	2:C:1035:MET:H	1.82	0.44
2:C:1088:LEU:HG	3:D:607:LEU:CD2	2.47	0.44
3:D:50:PHE:CG	3:D:522:PRO:CG	3.00	0.44
3:D:475:LYS:HG2	3:D:478:LEU:HD12	1.99	0.44
3:D:647:ARG:HD2	3:D:680:GLN:HE22	1.82	0.44
3:D:687:VAL:O	3:D:690:ALA:N	2.49	0.44
3:D:785:ILE:HG13	3:D:939:PHE:CE2	2.52	0.44
3:D:826:PRO:C	3:D:829:VAL:CG2	2.90	0.44
3:D:959:GLU:HB2	3:D:963:TYR:HE1	1.80	0.44
3:D:1076:GLY:O	3:D:1079:LYS:HG2	2.17	0.44
3:D:1117:TYR:HE2	3:D:1151:ARG:NH1	2.15	0.44
5:F:419:ARG:CG	5:F:419:ARG:HH11	2.29	0.44
2:M:94:LEU:O	2:M:114:PHE:HA	2.17	0.44
2:M:534:VAL:HG23	2:M:538:GLN:NE2	2.31	0.44
2:M:535:SER:O	2:M:536:PRO:C	2.60	0.44
2:M:585:GLU:O	2:M:586:ARG:C	2.60	0.44
2:M:591:SER:C	2:M:593:ALA:H	2.23	0.44
2:M:706:GLU:N	2:M:827:VAL:O	2.51	0.44
2:M:1000:MET:CE	2:M:1001:VAL:HG13	2.47	0.44
2:M:1015:LEU:C	2:M:1015:LEU:HD22	2.42	0.44
3:N:162:ARG:HA	3:N:434:ARG:HH21	1.81	0.44
3:N:214:GLU:HG2	3:N:215:TYR:CD1	2.53	0.44
3:N:428:LYS:HD3	3:N:451:ASP:HB3	1.99	0.44
3:N:806:PHE:C	3:N:809:PRO:HD2	2.42	0.44
3:N:1043:GLY:O	3:N:1056:PRO:CA	2.65	0.44
3:N:1281:VAL:HG11	3:N:1314:LYS:O	2.17	0.44
5:P:171:LYS:O	5:P:172:ARG:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:224:TYR:CD1	1:B:9:PRO:HD2	2.53	0.44
1:B:34:VAL:C	1:B:36:LEU:N	2.75	0.44
2:C:551:GLU:OE1	2:C:906:PHE:HA	2.18	0.44
2:C:742:VAL:CG1	2:C:743:VAL:H	2.25	0.44
2:C:769:PRO:O	2:C:772:ARG:N	2.49	0.44
2:C:853:LEU:HA	2:C:854:PRO:HD3	1.87	0.44
3:D:78:VAL:HG12	3:D:79:GLU:O	2.17	0.44
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.90	0.44
3:D:656:PHE:HE1	3:D:751:LEU:CD2	2.30	0.44
3:D:1049:SER:OG	3:D:1051:GLU:HG2	2.16	0.44
3:D:1055:VAL:HA	3:D:1056:PRO:HD3	1.83	0.44
3:D:1462:LEU:O	3:D:1463:LYS:C	2.60	0.44
4:E:49:GLN:C	4:E:51:LEU:N	2.73	0.44
5:F:415:THR:HG22	5:F:417:LYS:HE3	1.99	0.44
1:K:207:PRO:O	1:K:208:LEU:C	2.58	0.44
2:M:102:HIS:C	2:M:104:ASP:N	2.72	0.44
2:M:135:VAL:HG23	2:M:395:LYS:HA	1.98	0.44
2:M:706:GLU:HG3	2:M:707:ARG:N	2.31	0.44
2:M:732:ALA:C	2:M:734:LEU:H	2.24	0.44
2:M:799:ILE:O	2:M:801:VAL:HG13	2.16	0.44
2:M:837:ASP:OD2	2:M:999:HIS:CE1	2.70	0.44
2:M:877:PRO:O	2:M:879:ARG:O	2.35	0.44
2:M:984:GLU:HG3	3:N:944:THR:O	2.17	0.44
3:N:46:ASP:OD2	3:N:48:ARG:HB3	2.17	0.44
3:N:421:LEU:HD11	3:N:437:VAL:HG21	1.97	0.44
3:N:570:GLU:O	3:N:573:MET:N	2.50	0.44
3:N:783:ARG:NH1	3:N:1029:ARG:CZ	2.80	0.44
3:N:1102:THR:O	3:N:1102:THR:HG22	2.18	0.44
4:O:16:LYS:O	4:O:18:ARG:N	2.50	0.44
1:A:17:GLY:C	1:A:19:GLU:N	2.74	0.44
1:A:82:LEU:C	1:A:84:GLU:N	2.74	0.44
1:A:90:LEU:HD12	1:A:119:ASP:CA	2.34	0.44
1:B:23:PHE:O	1:B:197:LEU:HD23	2.17	0.44
1:B:82:LEU:C	1:B:84:GLU:N	2.73	0.44
1:B:106:PRO:HD3	1:B:134:GLU:OE2	2.17	0.44
2:C:41:ASN:HA	2:C:45:GLN:HG2	1.99	0.44
2:C:381:ALA:O	2:C:382:ILE:C	2.60	0.44
2:C:853:LEU:HD23	2:C:858:MET:HB3	1.98	0.44
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.52	0.44
3:D:10:ILE:HD11	3:D:1434:TRP:CE2	2.53	0.44
3:D:89:ARG:NH1	3:D:89:ARG:HG2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:93:ILE:HD13	3:D:548:ILE:HD13	1.95	0.44
3:D:128:TYR:C	3:D:130:SER:H	2.25	0.44
3:D:178:LEU:C	3:D:180:LYS:N	2.75	0.44
3:D:511:TRP:N	3:D:511:TRP:CE3	2.86	0.44
3:D:561:GLY:HA3	5:F:184:ARG:NH1	2.30	0.44
3:D:1078:ARG:O	3:D:1079:LYS:C	2.60	0.44
3:D:1198:TYR:CE1	3:D:1460:ILE:HD13	2.52	0.44
3:D:1461:GLY:O	3:D:1473:PRO:HG2	2.18	0.44
5:F:151:LEU:HB2	5:F:155:THR:OG1	2.17	0.44
5:F:188:ILE:HG23	5:F:220:LEU:HD23	1.98	0.44
1:K:44:LEU:HD21	1:K:199:ILE:HD13	1.99	0.44
1:K:115:LEU:HD12	1:K:115:LEU:O	2.17	0.44
2:M:352:ALA:O	2:M:356:ARG:HG3	2.17	0.44
2:M:860:HIS:CD2	2:M:975:TYR:HB2	2.52	0.44
2:M:1000:MET:HE3	2:M:1001:VAL:HG13	2.00	0.44
2:M:1115:LEU:HA	3:N:89:ARG:HH21	1.82	0.44
3:N:26:VAL:CG1	3:N:44:LEU:HD23	2.33	0.44
3:N:426:LYS:O	3:N:426:LYS:HG2	2.17	0.44
3:N:486:ARG:HH21	3:N:489:ARG:CD	2.28	0.44
3:N:569:ASN:C	3:N:569:ASN:HD22	2.24	0.44
3:N:639:LEU:HA	3:N:729:HIS:CD2	2.52	0.44
3:N:661:MET:O	3:N:664:LYS:O	2.35	0.44
3:N:758:GLU:HG3	4:O:20:THR:HG21	2.00	0.44
3:N:868:TYR:HD1	3:N:869:MET:H	1.65	0.44
3:N:1117:TYR:N	3:N:1117:TYR:CD2	2.86	0.44
3:N:1137:ARG:CD	3:N:1137:ARG:H	2.31	0.44
3:N:1320:GLU:CG	3:N:1323:GLN:HE21	2.31	0.44
5:P:214:GLN:HA	5:P:214:GLN:NE2	2.32	0.44
5:P:340:SER:O	5:P:343:ASP:N	2.50	0.44
5:P:386:VAL:HG13	5:P:394:ARG:NE	2.32	0.44
1:B:81:ASN:ND2	1:B:128:HIS:O	2.50	0.44
1:B:176:ARG:NH2	3:D:884:ARG:HD3	2.31	0.44
2:C:517:ARG:HG3	2:C:517:ARG:NH1	2.32	0.44
2:C:704:HIS:CD2	2:C:831:ARG:HH12	2.35	0.44
2:C:1091:GLU:CD	3:D:606:ILE:HB	2.43	0.44
3:D:207:PHE:HA	3:D:208:PRO:HD3	1.74	0.44
3:D:631:ILE:CG2	3:D:745:MET:HB2	2.47	0.44
3:D:684:LYS:O	3:D:687:VAL:HG23	2.17	0.44
3:D:729:HIS:HD1	3:D:731:LEU:N	2.15	0.44
3:D:820:GLU:C	3:D:822:ALA:H	2.23	0.44
3:D:833:GLU:O	3:D:834:THR:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:858:VAL:HG12	3:D:862:ASP:HB2	1.98	0.44
3:D:1314:LYS:HD3	3:D:1314:LYS:H	1.82	0.44
3:D:1339:LYS:HD3	3:D:1343:ALA:HB1	1.98	0.44
4:E:83:ASP:O	4:E:86:GLN:HG2	2.17	0.44
5:F:84:TYR:HB3	5:F:88:ILE:HD12	1.99	0.44
1:K:47:SER:CB	1:K:217:ILE:HD13	2.45	0.44
1:K:69:PRO:O	1:K:71:VAL:N	2.51	0.44
2:M:114:PHE:CE2	5:P:283:GLY:O	2.71	0.44
2:M:663:ASN:O	2:M:663:ASN:OD1	2.36	0.44
2:M:958:THR:O	2:M:959:PRO:C	2.60	0.44
3:N:386:HIS:C	3:N:387:LEU:HD13	2.42	0.44
3:N:462:GLN:OE1	3:N:466:LYS:HE3	2.17	0.44
3:N:493:ARG:HE	3:N:1389:LEU:CG	2.31	0.44
3:N:628:ARG:O	3:N:629:SER:HB3	2.18	0.44
3:N:733:CYS:O	3:N:734:GLU:C	2.59	0.44
3:N:932:ASP:OD1	3:N:935:LYS:NZ	2.49	0.44
3:N:989:TYR:O	3:N:992:ILE:N	2.38	0.44
3:N:1047:LYS:HB2	3:N:1051:GLU:O	2.16	0.44
3:N:1160:LEU:N	3:N:1160:LEU:HD23	2.33	0.44
4:O:52:GLU:OE2	4:O:52:GLU:HA	2.17	0.44
5:P:105:LYS:HB3	5:P:105:LYS:NZ	2.29	0.44
1:B:77:GLU:HB2	3:D:872:ARG:HH22	1.82	0.44
2:C:141:HIS:HE1	2:C:332:ARG:HH11	1.62	0.44
2:C:191:PHE:CE2	2:C:238:LEU:HD11	2.53	0.44
2:C:326:ASP:HB2	2:C:431:HIS:CE1	2.53	0.44
2:C:328:LEU:HD12	2:C:328:LEU:N	2.32	0.44
2:C:458:TYR:HB3	2:C:470:PRO:CG	2.47	0.44
2:C:670:GLN:HE22	2:C:699:PHE:CA	2.31	0.44
2:C:943:VAL:HG21	2:C:973:VAL:CG1	2.47	0.44
2:C:1062:GLY:O	2:C:1065:ALA:N	2.50	0.44
2:C:1095:LEU:HD11	3:D:603:LEU:HB3	2.00	0.44
3:D:642:CYS:O	3:D:718:PRO:HA	2.17	0.44
3:D:657:LEU:O	3:D:658:LEU:C	2.60	0.44
3:D:798:GLU:CG	3:D:799:LYS:H	2.21	0.44
3:D:835:SER:O	3:D:837:GLY:N	2.51	0.44
3:D:965:GLU:OE1	3:D:965:GLU:HA	2.17	0.44
3:D:1147:ARG:HB3	3:D:1188:VAL:HG23	1.99	0.44
1:K:85:LEU:HD12	1:K:86:VAL:N	2.32	0.44
1:K:117:VAL:HG12	1:K:118:ALA:N	2.32	0.44
1:L:161:ARG:HG3	1:L:161:ARG:NH1	2.32	0.44
2:M:194:VAL:CG1	2:M:221:LEU:HG	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:196:LEU:HA	2:M:199:VAL:HG23	1.99	0.44
2:M:553:ASP:OD2	2:M:881:ASN:C	2.61	0.44
2:M:559:LEU:HG	2:M:560:MET:N	2.30	0.44
2:M:643:VAL:HG13	2:M:647:GLN:OE1	2.18	0.44
2:M:751:PRO:HB2	3:N:680:GLN:HG3	1.99	0.44
2:M:944:LEU:HD21	2:M:963:LEU:HD23	1.99	0.44
2:M:1101:THR:C	2:M:1102:LEU:HD12	2.41	0.44
3:N:493:ARG:CB	3:N:493:ARG:HH11	2.30	0.44
3:N:505:SER:O	3:N:506:GLY:O	2.34	0.44
3:N:699:VAL:CB	3:N:716:PHE:O	2.64	0.44
3:N:810:GLU:HA	3:N:813:LEU:CD2	2.47	0.44
3:N:835:SER:H	3:N:838:ARG:HG3	1.81	0.44
3:N:854:ALA:C	3:N:856:GLY:N	2.75	0.44
3:N:959:GLU:O	3:N:960:LYS:C	2.60	0.44
4:O:54:LEU:HD23	4:O:58:PRO:HD2	2.00	0.44
5:P:77:THR:O	5:P:81:VAL:HG23	2.18	0.44
5:P:390:PHE:CD1	5:P:390:PHE:C	2.95	0.44
5:P:418:LEU:C	5:P:420:ASP:N	2.76	0.44
1:A:4:SER:O	1:A:7:LYS:HB3	2.18	0.44
1:A:182:GLU:C	1:A:183:ASP:O	2.61	0.44
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.75	0.44
2:C:810:ASP:OD2	2:C:815:LEU:HD22	2.17	0.44
2:C:872:ASN:OD1	2:C:873:PRO:HD2	2.17	0.44
2:C:872:ASN:HD21	3:D:784:ASP:CG	2.25	0.44
2:C:1102:LEU:HD23	2:C:1106:ASP:HB3	2.00	0.44
3:D:166:GLN:HG2	3:D:207:PHE:CG	2.53	0.44
3:D:172:PRO:HA	3:D:178:LEU:HD12	1.99	0.44
3:D:790:TYR:HD2	3:D:906:GLN:O	2.01	0.44
3:D:1135:ARG:HB2	3:D:1140:ILE:HD11	1.99	0.44
3:D:1389:LEU:O	3:D:1391:GLU:N	2.50	0.44
5:F:191:ASN:O	5:F:194:LEU:HB3	2.17	0.44
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.98	0.44
1:K:156:HIS:O	1:K:157:GLY:C	2.60	0.44
1:K:195:LEU:CD1	1:K:196:THR:N	2.75	0.44
2:M:44:ILE:H	2:M:44:ILE:CD1	2.30	0.44
2:M:573:ARG:C	2:M:574:ALA:O	2.61	0.44
2:M:674:VAL:HG11	2:M:992:MET:HE3	1.99	0.44
2:M:765:SER:C	2:M:766:GLU:HG3	2.41	0.44
2:M:1016:ILE:HG12	2:M:1017:THR:H	1.82	0.44
3:N:29:PRO:HG2	3:N:549:ASN:HD22	1.80	0.44
3:N:470:LEU:CD1	3:N:503:LEU:HG	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:808:THR:H	3:N:809:PRO:HD3	1.83	0.44
3:N:928:ALA:O	3:N:931:LEU:HB2	2.18	0.44
4:O:59:ASN:HD22	4:O:59:ASN:HA	1.62	0.44
1:A:59:GLU:HG3	1:A:60:ASP:H	1.83	0.44
1:A:124:ASN:CG	1:A:127:LEU:CD2	2.91	0.44
1:B:25:LEU:HD23	1:B:25:LEU:O	2.17	0.44
1:B:58:ILE:CG2	1:B:59:GLU:H	2.18	0.44
2:C:389:SER:O	2:C:390:GLN:C	2.60	0.44
2:C:399:ASN:O	2:C:400:PRO:C	2.61	0.44
2:C:405:ARG:NH1	2:C:563:ASN:ND2	2.65	0.44
2:C:430:VAL:HG13	3:D:1075:HIS:ND1	2.32	0.44
2:C:620:LEU:HD23	2:C:620:LEU:N	2.32	0.44
2:C:693:GLU:OE1	2:C:693:GLU:HA	2.17	0.44
2:C:787:ASP:C	2:C:787:ASP:OD1	2.60	0.44
2:C:876:VAL:H	2:C:877:PRO:HD2	1.82	0.44
3:D:396:VAL:HG22	3:D:447:VAL:CA	2.47	0.44
3:D:396:VAL:CG1	3:D:446:VAL:C	2.87	0.44
3:D:568:ARG:O	3:D:572:ARG:N	2.42	0.44
3:D:702:LEU:N	3:D:702:LEU:CD1	2.81	0.44
3:D:1176:LYS:HA	3:D:1179:GLU:HG3	1.99	0.44
5:F:88:ILE:O	5:F:92:PRO:HG3	2.18	0.44
5:F:164:LYS:CB	5:F:171:LYS:NZ	2.80	0.44
1:K:86:VAL:HG12	1:K:124:ASN:CG	2.40	0.44
1:K:189:ARG:CZ	1:L:155:LYS:HE2	2.48	0.44
1:K:215:VAL:HG23	1:K:216:GLU:N	2.32	0.44
1:L:3:ASP:CG	1:L:4:SER:N	2.70	0.44
2:M:449:ILE:C	2:M:451:LEU:N	2.73	0.44
2:M:863:ASP:OD2	2:M:865:THR:CG2	2.66	0.44
2:M:1015:LEU:HB3	2:M:1016:ILE:HD13	2.00	0.44
2:M:1047:HIS:CE1	2:M:1078:GLU:OE2	2.71	0.44
3:N:754:PHE:O	3:N:755:ALA:C	2.59	0.44
3:N:871:LYS:HZ3	3:N:897:TRP:HZ3	1.60	0.44
3:N:1137:ARG:N	3:N:1137:ARG:HD2	2.33	0.44
1:A:146:ARG:O	1:A:146:ARG:HD3	2.18	0.44
1:A:173:PRO:HB2	1:A:205:VAL:HG22	2.00	0.44
1:B:223:THR:C	1:B:225:PHE:H	2.26	0.44
2:C:100:LEU:HG	2:C:368:THR:OG1	2.17	0.44
2:C:118:ILE:HG23	2:C:118:ILE:O	2.18	0.44
2:C:182:VAL:HG21	2:C:220:GLY:O	2.17	0.44
2:C:367:LEU:N	2:C:367:LEU:HD23	2.33	0.44
2:C:853:LEU:HB3	2:C:858:MET:HE3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:854:PRO:O	2:C:855:VAL:C	2.61	0.44
2:C:903:SER:O	2:C:904:PRO:C	2.60	0.44
2:C:975:TYR:N	2:C:975:TYR:CD1	2.86	0.44
3:D:124:GLU:C	3:D:126:VAL:H	2.25	0.44
3:D:133:ILE:HG21	3:D:454:ALA:CB	2.44	0.44
3:D:211:VAL:HG12	3:D:212:ARG:N	2.30	0.44
3:D:534:ARG:HG2	5:F:312:GLN:HE22	1.83	0.44
3:D:601:ARG:HD3	3:D:606:ILE:HG12	1.99	0.44
3:D:639:LEU:HD21	3:D:731:LEU:HB2	2.00	0.44
3:D:645:PRO:O	3:D:648:MET:HB3	2.17	0.44
3:D:652:LEU:C	3:D:654:LYS:H	2.26	0.44
3:D:1167:SER:C	3:D:1169:ASP:N	2.75	0.44
3:D:1273:VAL:O	3:D:1273:VAL:HG23	2.17	0.44
3:D:1452:ILE:HG22	3:D:1453:ALA:N	2.33	0.44
3:D:1491:THR:HG21	4:E:89:MET:CE	2.48	0.44
5:F:176:ILE:O	5:F:180:GLY:N	2.51	0.44
5:F:287:THR:O	5:F:289:GLU:N	2.51	0.44
1:K:26:GLU:HG2	1:K:27:PRO:CA	2.47	0.44
1:K:64:GLU:O	1:K:76:VAL:HG22	2.18	0.44
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.52	0.44
1:L:13:VAL:HG12	1:L:14:ARG:N	2.33	0.44
2:M:52:PHE:O	2:M:53:PRO:C	2.60	0.44
2:M:244:PRO:CD	2:M:245:GLY:N	2.80	0.44
2:M:367:LEU:HB3	2:M:371:LYS:HE3	1.99	0.44
2:M:520:GLU:O	2:M:522:VAL:HG23	2.17	0.44
2:M:700:TYR:HB2	2:M:833:LEU:HB2	2.00	0.44
2:M:952:LEU:HD22	2:M:952:LEU:N	2.32	0.44
3:N:114:THR:C	3:N:116:LEU:N	2.76	0.44
3:N:115:LEU:HD12	3:N:498:VAL:HG23	2.00	0.44
3:N:658:LEU:O	3:N:661:MET:N	2.50	0.44
3:N:714:GLN:NE2	3:N:732:VAL:HG11	2.33	0.44
3:N:789:LEU:O	3:N:792:ILE:HG22	2.17	0.44
3:N:800:LYS:HE3	3:N:800:LYS:HB3	1.77	0.44
3:N:890:VAL:O	3:N:891:GLU:C	2.60	0.44
3:N:1015:TYR:N	3:N:1016:PRO:HD3	2.32	0.44
3:N:1018:ASN:C	3:N:1022:VAL:HG23	2.38	0.44
3:N:1038:LEU:HD12	3:N:1038:LEU:N	2.33	0.44
3:N:1106:VAL:HB	3:N:1108:ARG:CZ	2.48	0.44
3:N:1137:ARG:H	3:N:1137:ARG:HD2	1.82	0.44
3:N:1345:GLU:O	3:N:1346:ARG:C	2.60	0.44
5:P:247:ILE:O	5:P:250:ALA:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:362:SER:O	5:P:363:GLU:O	2.35	0.44
5:P:406:ARG:HB3	5:P:409:LYS:HE2	1.99	0.44
1:A:83:LYS:NZ	2:C:698:ASP:OD1	2.50	0.44
1:A:94:LEU:CD2	1:A:119:ASP:HB2	2.47	0.44
1:A:111:ALA:HB1	1:A:122:ILE:HG21	2.00	0.44
1:A:206:THR:CG2	1:A:208:LEU:HB3	2.48	0.44
1:B:152:PRO:O	1:B:153:ALA:C	2.61	0.44
2:C:5:ARG:HA	2:C:902:ILE:HB	1.99	0.44
2:C:204:GLN:NE2	2:C:228:ALA:HB2	2.33	0.44
2:C:554:ASP:O	2:C:556:ASN:N	2.51	0.44
2:C:602:GLU:CA	2:C:614:ARG:HB3	2.48	0.44
2:C:791:ARG:HH11	2:C:791:ARG:HG3	1.83	0.44
3:D:34:TYR:CD1	3:D:35:ARG:N	2.85	0.44
3:D:148:GLU:O	3:D:149:LYS:C	2.61	0.44
3:D:396:VAL:CG1	3:D:446:VAL:N	2.81	0.44
3:D:674:ARG:NE	5:F:342:VAL:HG11	2.32	0.44
3:D:778:LEU:HD12	3:D:778:LEU:HA	1.67	0.44
3:D:806:PHE:C	3:D:808:THR:N	2.76	0.44
3:D:897:TRP:CZ2	3:D:902:LEU:HD11	2.53	0.44
3:D:1065:LEU:C	3:D:1065:LEU:HD12	2.43	0.44
3:D:1088:THR:HA	3:D:1234:THR:HG23	1.99	0.44
3:D:1111:ASP:O	3:D:1112:CYS:C	2.59	0.44
3:D:1161:GLU:O	3:D:1162:GLU:C	2.61	0.44
5:F:199:ALA:O	5:F:200:LYS:C	2.61	0.44
1:K:18:ARG:HH12	1:K:88:ARG:NE	2.16	0.44
1:L:21:GLY:HA3	1:L:207:PRO:CB	2.48	0.44
2:M:280:LYS:HB2	2:M:281:LEU:HD23	2.00	0.44
2:M:289:THR:HB	2:M:290:LEU:HD23	2.00	0.44
2:M:630:ARG:HH11	2:M:630:ARG:HG3	1.83	0.44
2:M:688:ILE:HD13	2:M:871:LEU:HD11	1.99	0.44
2:M:1092:LEU:HA	2:M:1095:LEU:HD12	1.99	0.44
2:M:1094:ALA:CA	3:N:90:MET:HE1	2.48	0.44
3:N:524:LEU:C	3:N:526:PRO:HD3	2.43	0.44
3:N:575:GLN:O	3:N:576:GLU:C	2.61	0.44
3:N:609:GLY:HA3	3:N:613:ARG:HB3	2.00	0.44
3:N:835:SER:O	3:N:838:ARG:N	2.32	0.44
3:N:1018:ASN:C	3:N:1018:ASN:OD1	2.60	0.44
3:N:1149:LEU:O	3:N:1162:GLU:HG2	2.18	0.44
3:N:1160:LEU:O	3:N:1161:GLU:O	2.36	0.44
3:N:1486:VAL:HG22	4:O:75:PHE:HB3	1.99	0.44
4:O:32:ARG:C	4:O:34:GLY:H	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:13:VAL:HG12	1:B:14:ARG:N	2.31	0.43
2:C:91:GLN:HB3	2:C:92:ALA:H	1.63	0.43
2:C:309:TYR:CA	2:C:312:ALA:HB3	2.44	0.43
2:C:684:PHE:CD2	2:C:685:GLU:N	2.86	0.43
3:D:112:ILE:HG22	3:D:512:MET:SD	2.58	0.43
3:D:133:ILE:HA	3:D:455:ARG:O	2.18	0.43
3:D:444:VAL:O	3:D:444:VAL:HG13	2.18	0.43
3:D:753:SER:O	3:D:757:ALA:HB2	2.18	0.43
3:D:901:GLN:C	3:D:903:ASP:H	2.25	0.43
3:D:1151:ARG:O	3:D:1152:GLU:C	2.61	0.43
3:D:1279:GLY:O	3:D:1318:TYR:HA	2.17	0.43
3:D:1442:ASN:O	3:D:1444:THR:N	2.51	0.43
4:E:57:ASP:N	4:E:58:PRO:HD3	2.33	0.43
5:F:102:LEU:CD1	5:F:186:HIS:O	2.66	0.43
5:F:154:LYS:C	5:F:158:GLU:OE2	2.61	0.43
5:F:235:PHE:O	5:F:238:TYR:N	2.51	0.43
5:F:297:PRO:O	5:F:299:TRP:N	2.49	0.43
1:L:170:VAL:HG23	1:L:170:VAL:O	2.18	0.43
1:L:197:LEU:HD23	1:L:197:LEU:O	2.17	0.43
2:M:146:VAL:HG21	2:M:281:LEU:HD21	2.00	0.43
2:M:428:ARG:NH2	2:M:447:ALA:O	2.51	0.43
2:M:653:ASP:OD1	2:M:654:LEU:N	2.50	0.43
2:M:752:GLY:H	2:M:792:VAL:HB	1.82	0.43
2:M:893:ALA:HB1	2:M:897:LEU:HD22	2.00	0.43
2:M:985:GLY:O	2:M:987:ILE:CD1	2.66	0.43
2:M:1017:THR:O	2:M:1017:THR:HG23	2.18	0.43
3:N:74:GLU:CB	3:N:75:ARG:HH21	2.23	0.43
3:N:218:LYS:HB3	3:N:373:PRO:O	2.18	0.43
3:N:528:VAL:HG12	3:N:529:GLN:H	1.81	0.43
3:N:1151:ARG:HA	3:N:1151:ARG:HD3	1.88	0.43
3:N:1306:PRO:O	3:N:1307:LYS:C	2.61	0.43
3:N:1479:ASP:C	3:N:1481:VAL:H	2.26	0.43
5:P:227:PHE:CD1	5:P:235:PHE:HD1	2.36	0.43
1:B:146:ARG:HG3	1:B:146:ARG:O	2.17	0.43
2:C:177:GLU:O	2:C:181:VAL:O	2.35	0.43
2:C:256:TYR:O	2:C:259:GLY:N	2.51	0.43
2:C:672:VAL:CG2	2:C:694:LEU:HD21	2.48	0.43
2:C:826:TYR:HD1	2:C:826:TYR:H	1.64	0.43
2:C:1068:GLU:O	2:C:1069:ALA:C	2.59	0.43
2:C:1076:VAL:HA	2:C:1077:PRO:HD3	1.81	0.43
3:D:130:SER:HA	3:D:572:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:220:ARG:O	3:D:221:ALA:HB2	2.19	0.43
3:D:403:PHE:HB3	3:D:404:GLU:H	1.68	0.43
3:D:670:VAL:C	3:D:672:ALA:N	2.76	0.43
3:D:1031:ASN:HB3	3:D:1034:GLN:NE2	2.33	0.43
3:D:1127:GLU:OE2	3:D:1128:VAL:HG23	2.18	0.43
4:E:82:GLU:CD	4:E:82:GLU:N	2.66	0.43
5:F:188:ILE:HG23	5:F:220:LEU:CD2	2.48	0.43
5:F:371:LEU:CD2	5:F:375:LEU:HB2	2.47	0.43
1:L:151:VAL:CG2	1:L:171:PHE:HE2	2.31	0.43
2:M:121:MET:HE3	2:M:127:PHE:CE1	2.54	0.43
2:M:154:ARG:HH12	2:M:157:ARG:H	1.65	0.43
2:M:571:LEU:HB3	2:M:701:THR:O	2.18	0.43
2:M:679:PHE:CD1	2:M:870:ILE:HD13	2.52	0.43
2:M:890:LEU:O	2:M:893:ALA:HB3	2.18	0.43
2:M:919:ALA:O	2:M:922:PHE:N	2.50	0.43
3:N:32:ILE:HD12	3:N:527:MET:HG2	1.99	0.43
3:N:37:LEU:HD11	3:N:529:GLN:NE2	2.33	0.43
3:N:422:ALA:HB3	3:N:427:VAL:CG1	2.47	0.43
3:N:423:ASP:OD2	5:P:175:HIS:HA	2.19	0.43
3:N:563:PRO:O	3:N:564:GLU:C	2.61	0.43
3:N:570:GLU:C	3:N:572:ARG:N	2.73	0.43
3:N:661:MET:HE1	3:N:677:LEU:HD12	2.00	0.43
3:N:767:HIS:NE2	4:O:6:ILE:HG12	2.33	0.43
3:N:1034:GLN:O	3:N:1038:LEU:HD13	2.18	0.43
3:N:1192:LEU:CD2	3:N:1345:GLU:OE2	2.66	0.43
4:O:7:ASP:HA	4:O:10:PHE:HB2	1.99	0.43
4:O:32:ARG:O	4:O:34:GLY:N	2.43	0.43
5:P:104:ARG:O	5:P:108:GLU:HB2	2.18	0.43
5:P:148:LYS:O	5:P:148:LYS:HD3	2.17	0.43
5:P:335:ASP:CG	5:P:338:LEU:HD12	2.43	0.43
1:A:83:LYS:HZ3	2:C:698:ASP:CG	2.26	0.43
1:A:123:MET:C	1:A:125:PRO:CD	2.79	0.43
1:A:221:HIS:HA	1:A:224:TYR:CE2	2.54	0.43
1:A:222:LEU:HD13	1:A:222:LEU:HA	1.89	0.43
1:B:156:HIS:H	1:B:156:HIS:HD2	1.65	0.43
2:C:211:LEU:CD1	2:C:308:ARG:HB2	2.48	0.43
3:D:130:SER:OG	3:D:132:TYR:CE1	2.62	0.43
3:D:139:GLY:C	3:D:147:VAL:HG22	2.42	0.43
3:D:166:GLN:HB3	3:D:395:VAL:HG23	2.00	0.43
3:D:234:GLU:C	3:D:238:PRO:HD2	2.44	0.43
3:D:629:SER:HB3	3:D:726:ILE:CG1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:695:ILE:HG22	3:D:696:HIS:N	2.33	0.43
3:D:733:CYS:O	3:D:736:PHE:O	2.36	0.43
3:D:796:ARG:NH1	3:D:861:GLN:OE1	2.51	0.43
3:D:807:ALA:HB1	3:D:833:GLU:OE1	2.18	0.43
3:D:1094:LEU:O	3:D:1094:LEU:HG	2.09	0.43
5:F:409:LYS:HE3	5:F:409:LYS:HB2	1.87	0.43
1:L:157:GLY:O	1:L:158:ILE:O	2.37	0.43
1:L:181:VAL:CG1	1:L:193:ASP:HB3	2.48	0.43
2:M:32:ALA:HB2	2:M:73:LEU:HD12	1.99	0.43
2:M:63:GLY:HA3	2:M:103:LYS:CD	2.48	0.43
2:M:101:ILE:HD13	2:M:107:LEU:HB3	2.00	0.43
2:M:501:THR:HG22	2:M:513:VAL:CG1	2.49	0.43
2:M:547:ILE:O	2:M:548:PRO:O	2.35	0.43
2:M:736:ASP:C	2:M:738:ASP:N	2.74	0.43
2:M:950:LEU:HD22	2:M:950:LEU:HA	1.89	0.43
2:M:1052:MET:HE1	3:N:748:HIS:HB3	2.00	0.43
3:N:99:ALA:HB1	3:N:575:GLN:CD	2.43	0.43
3:N:128:TYR:HB3	3:N:129:PHE:HD1	1.83	0.43
3:N:395:VAL:C	3:N:396:VAL:HG23	2.43	0.43
3:N:625:TYR:O	3:N:749:VAL:HG23	2.17	0.43
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.49	0.43
3:N:792:ILE:HG23	3:N:793:THR:N	2.33	0.43
3:N:997:THR:O	3:N:1001:GLU:HB2	2.19	0.43
3:N:1271:LYS:HZ3	3:N:1273:VAL:HA	1.76	0.43
5:P:100:VAL:O	5:P:104:ARG:HB2	2.18	0.43
5:P:170:HIS:O	5:P:171:LYS:C	2.61	0.43
5:P:281:GLU:O	5:P:283:GLY:N	2.51	0.43
5:P:282:LEU:C	5:P:284:ARG:N	2.77	0.43
5:P:389:PHE:CD2	5:P:397:ILE:HD11	2.53	0.43
1:B:7:LYS:CE	1:B:186:LEU:HD22	2.46	0.43
1:B:76:VAL:HA	1:B:79:ILE:CG1	2.48	0.43
2:C:205:GLU:HA	2:C:209:ARG:NH1	2.33	0.43
2:C:405:ARG:HD3	2:C:543:ASN:CG	2.43	0.43
2:C:409:ARG:HG3	2:C:454:SER:OG	2.19	0.43
2:C:449:ILE:C	2:C:451:LEU:H	2.24	0.43
2:C:709:GLU:CD	2:C:824:ARG:NH1	2.77	0.43
2:C:920:GLN:O	2:C:920:GLN:CG	2.66	0.43
2:C:927:GLY:O	2:C:928:LYS:C	2.61	0.43
2:C:959:PRO:O	2:C:960:GLU:C	2.60	0.43
3:D:130:SER:HA	3:D:572:ARG:HH12	1.83	0.43
3:D:198:ARG:H	3:D:198:ARG:HG3	1.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:213:VAL:HA	3:D:391:ALA:HA	2.00	0.43
3:D:570:GLU:HB2	5:F:214:GLN:HE22	1.74	0.43
3:D:683:ILE:HG23	3:D:687:VAL:HG21	2.01	0.43
3:D:790:TYR:CD2	3:D:1026:SER:HB3	2.53	0.43
3:D:1109:GLU:C	3:D:1109:GLU:CD	2.86	0.43
3:D:1128:VAL:O	3:D:1129:THR:HG22	2.19	0.43
3:D:1183:ILE:HG22	3:D:1184:GLN:H	1.84	0.43
3:D:1464:GLU:HA	3:D:1467:ILE:HD12	1.99	0.43
3:D:1504:GLU:O	3:D:1505:ALA:HB3	2.17	0.43
4:E:63:TRP:O	4:E:66:LYS:N	2.51	0.43
2:M:151:ASP:O	2:M:152:PRO:O	2.36	0.43
2:M:184:MET:SD	2:M:186:VAL:HG13	2.58	0.43
2:M:194:VAL:HG13	2:M:221:LEU:CD1	2.49	0.43
2:M:384:GLU:HG3	2:M:388:ARG:HH21	1.83	0.43
2:M:745:ILE:HD13	2:M:745:ILE:N	2.33	0.43
2:M:939:ARG:HH11	2:M:981:GLU:HG2	1.83	0.43
3:N:542:ASP:CG	3:N:545:ARG:HH21	2.26	0.43
3:N:572:ARG:O	3:N:575:GLN:HB3	2.19	0.43
3:N:645:PRO:C	3:N:647:ARG:N	2.73	0.43
3:N:846:PRO:O	3:N:850:LEU:HD13	2.19	0.43
3:N:966:GLU:HA	3:N:969:ARG:CD	2.49	0.43
5:P:358:LEU:CD1	5:P:370:LYS:HD2	2.47	0.43
5:P:406:ARG:CA	5:P:409:LYS:HG2	2.33	0.43
1:A:62:LEU:N	1:A:62:LEU:CD1	2.77	0.43
1:A:75:VAL:O	1:A:75:VAL:CG1	2.65	0.43
1:B:6:LEU:C	1:B:8:ALA:H	2.26	0.43
1:B:206:THR:O	1:B:209:GLU:HB2	2.18	0.43
2:C:605:LYS:HE2	2:C:610:ARG:NH2	2.32	0.43
2:C:641:PRO:HA	2:C:656:ALA:CB	2.48	0.43
2:C:758:ARG:C	2:C:759:THR:HG23	2.44	0.43
2:C:760:SER:O	2:C:785:VAL:CG2	2.66	0.43
2:C:957:LYS:HG2	2:C:961:GLU:CB	2.48	0.43
2:C:1013:TYR:CE1	2:C:1063:ARG:NH1	2.86	0.43
2:C:1089:VAL:HG21	2:C:1111:ILE:CD1	2.49	0.43
3:D:462:GLN:O	3:D:463:GLN:C	2.61	0.43
3:D:730:PRO:HG2	3:D:731:LEU:H	1.82	0.43
3:D:1422:MET:HE2	3:D:1427:SER:CA	2.41	0.43
3:D:1459:LEU:CD1	3:D:1468:LEU:HD12	2.48	0.43
5:F:322:GLY:C	5:F:324:GLU:H	2.26	0.43
5:F:388:ALA:HB3	5:F:397:ILE:HD13	2.00	0.43
1:K:163:ASN:HD22	1:K:163:ASN:HA	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:14:PRO:O	2:M:15:LEU:O	2.36	0.43
2:M:139:GLN:HB3	2:M:334:ARG:CG	2.49	0.43
2:M:170:PRO:CD	2:M:263:ASP:HB3	2.48	0.43
3:N:60:CYS:SG	3:N:62:LYS:HB2	2.59	0.43
3:N:118:LEU:O	3:N:119:SER:C	2.60	0.43
3:N:387:LEU:HD21	5:P:97:GLU:CG	2.48	0.43
3:N:586:ARG:C	3:N:587:ARG:HG2	2.44	0.43
3:N:774:SER:O	3:N:776:GLU:N	2.52	0.43
3:N:836:VAL:C	3:N:838:ARG:N	2.75	0.43
3:N:841:TYR:HB3	3:N:843:PHE:CE1	2.53	0.43
3:N:1209:LEU:C	3:N:1211:MET:H	2.25	0.43
4:O:57:ASP:N	4:O:58:PRO:HD3	2.34	0.43
5:P:94:LEU:HB2	5:P:98:GLU:CG	2.49	0.43
5:P:278:LEU:HB2	5:P:286:PRO:HG2	2.00	0.43
1:A:38:ASN:HB3	1:A:39:PRO:CD	2.49	0.43
1:A:97:VAL:CG1	1:A:98:THR:N	2.81	0.43
1:A:119:ASP:OD1	1:A:119:ASP:N	2.51	0.43
1:A:134:GLU:H	1:A:134:GLU:HG2	1.47	0.43
1:A:216:GLU:O	1:A:219:ARG:N	2.52	0.43
1:B:32:PHE:HA	1:B:35:THR:HB	2.00	0.43
1:B:38:ASN:O	1:B:41:ARG:HB3	2.18	0.43
1:B:228:PRO:O	1:B:229:GLN:HB2	2.18	0.43
2:C:328:LEU:N	2:C:328:LEU:CD1	2.81	0.43
2:C:679:PHE:HA	3:D:943:THR:HG22	2.00	0.43
2:C:707:ARG:HD2	2:C:826:TYR:CZ	2.52	0.43
2:C:946:ARG:CZ	2:C:984:GLU:HB2	2.49	0.43
2:C:1016:ILE:HD11	5:F:330:GLY:O	2.18	0.43
2:C:1089:VAL:O	2:C:1093:GLN:HB2	2.18	0.43
3:D:8:VAL:CG1	3:D:9:ARG:N	2.81	0.43
3:D:141:ILE:HG22	3:D:142:LEU:H	1.83	0.43
3:D:601:ARG:HB2	3:D:601:ARG:HH11	1.80	0.43
3:D:666:ILE:HG22	3:D:666:ILE:O	2.19	0.43
3:D:1117:TYR:HE2	3:D:1151:ARG:HH11	1.65	0.43
3:D:1259:VAL:HG21	3:D:1356:TYR:CE1	2.53	0.43
3:D:1299:PHE:CD2	3:D:1299:PHE:N	2.86	0.43
5:F:297:PRO:C	5:F:299:TRP:H	2.27	0.43
5:F:371:LEU:HD22	5:F:375:LEU:HB2	2.00	0.43
1:K:43:ILE:HG22	1:K:217:ILE:HD12	2.00	0.43
1:K:121:GLU:HG2	1:K:123:MET:SD	2.58	0.43
1:K:172:SER:HA	1:K:173:PRO:HD3	1.80	0.43
1:L:79:ILE:HG21	1:L:165:ILE:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:324:ASP:O	2:M:325:ILE:C	2.59	0.43
2:M:328:LEU:HA	2:M:328:LEU:HD12	1.77	0.43
2:M:588:VAL:HG23	2:M:596:TYR:OH	2.18	0.43
2:M:710:ILE:O	2:M:710:ILE:HG23	2.17	0.43
2:M:985:GLY:HA2	2:M:986:PRO:HD3	1.81	0.43
2:M:1052:MET:SD	2:M:1056:LYS:HD3	2.58	0.43
2:M:1055:LEU:HG	2:M:1079:PRO:HG3	2.00	0.43
3:N:179:VAL:O	3:N:183:GLU:HB2	2.18	0.43
3:N:469:ASP:O	3:N:470:LEU:C	2.61	0.43
3:N:569:ASN:O	3:N:573:MET:HG3	2.18	0.43
3:N:626:SER:O	3:N:652:LEU:HD11	2.18	0.43
3:N:631:ILE:HG12	3:N:743:ASP:O	2.18	0.43
3:N:1109:GLU:C	3:N:1109:GLU:CD	2.85	0.43
3:N:1264:GLU:OE2	3:N:1425:THR:HB	2.18	0.43
3:N:1394:VAL:O	3:N:1398:TRP:CD1	2.71	0.43
3:N:1440:PHE:O	3:N:1443:THR:HG23	2.19	0.43
3:N:1451:ALA:O	3:N:1454:GLY:N	2.45	0.43
4:O:53:GLY:C	4:O:55:PHE:H	2.26	0.43
5:P:161:GLN:C	5:P:163:LEU:H	2.26	0.43
2:C:9:ILE:CD1	2:C:907:ASP:HB3	2.49	0.43
2:C:466:PHE:O	2:C:467:ILE:C	2.61	0.43
2:C:630:ARG:HD3	2:C:705:ILE:HB	2.00	0.43
2:C:754:ILE:HD13	2:C:754:ILE:N	2.33	0.43
2:C:859:PRO:HD2	2:C:870:ILE:HD11	2.00	0.43
3:D:28:LYS:HA	3:D:29:PRO:HD3	1.73	0.43
3:D:168:THR:HG22	3:D:169:TYR:N	2.33	0.43
3:D:368:VAL:CG1	3:D:369:ALA:N	2.81	0.43
3:D:422:ALA:CB	3:D:427:VAL:HG22	2.33	0.43
3:D:573:MET:HE1	5:F:211:ASP:HA	2.01	0.43
3:D:697:GLY:HA3	4:E:59:ASN:CG	2.44	0.43
3:D:1122:LEU:C	3:D:1135:ARG:HG3	2.43	0.43
5:F:210:LEU:O	5:F:213:ILE:N	2.51	0.43
1:K:146:ARG:HH21	1:K:147:GLY:HA2	1.84	0.43
1:K:198:ARG:HD2	2:M:934:PHE:CZ	2.54	0.43
2:M:196:LEU:HD23	2:M:200:LEU:HD11	2.01	0.43
2:M:473:ARG:HG3	2:M:474:VAL:N	2.33	0.43
2:M:958:THR:O	2:M:961:GLU:N	2.51	0.43
3:N:100:ALA:HB3	3:N:128:TYR:HE2	1.84	0.43
3:N:215:TYR:OH	5:P:101:GLU:HB2	2.18	0.43
3:N:230:TRP:C	3:N:232:GLU:N	2.73	0.43
3:N:539:ASP:HB2	5:P:318:GLU:CD	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:568:ARG:C	3:N:570:GLU:N	2.77	0.43
3:N:806:PHE:O	3:N:807:ALA:C	2.62	0.43
3:N:834:THR:OG1	3:N:839:LEU:HD21	2.19	0.43
3:N:1045:MET:HG2	3:N:1073:SER:CA	2.41	0.43
3:N:1393:GLN:C	3:N:1398:TRP:HE1	2.27	0.43
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.19	0.43
5:P:191:ASN:C	5:P:193:ARG:N	2.77	0.43
1:A:56:VAL:HG21	1:A:79:ILE:HG22	1.99	0.43
1:B:73:GLU:HA	1:B:77:GLU:OE2	2.19	0.43
1:B:183:ASP:HA	1:B:192:LEU:O	2.18	0.43
2:C:225:SER:O	2:C:229:MET:HE3	2.18	0.43
2:C:432:ARG:HH11	2:C:432:ARG:HG3	1.84	0.43
2:C:690:ILE:C	2:C:858:MET:HE1	2.43	0.43
3:D:72:VAL:HG12	3:D:73:CYS:H	1.82	0.43
3:D:211:VAL:HG13	3:D:393:ILE:CG2	2.49	0.43
3:D:771:SER:HB2	3:D:778:LEU:HD13	2.01	0.43
3:D:989:TYR:CE2	3:D:993:LEU:HD11	2.53	0.43
3:D:1381:VAL:HG12	3:D:1382:THR:N	2.33	0.43
4:E:26:ARG:HH21	4:E:67:GLU:CD	2.27	0.43
4:E:38:THR:CB	4:E:63:TRP:HZ3	2.31	0.43
5:F:282:LEU:CD1	5:F:284:ARG:HB2	2.46	0.43
1:K:153:ALA:C	1:K:155:LYS:H	2.25	0.43
1:L:111:ALA:HB3	1:L:124:ASN:O	2.18	0.43
1:L:176:ARG:HG2	1:L:200:TRP:CB	2.49	0.43
2:M:10:ARG:C	2:M:12:VAL:H	2.26	0.43
2:M:64:LEU:HD13	2:M:359:MET:HG3	2.01	0.43
2:M:235:LEU:HD23	2:M:235:LEU:C	2.44	0.43
2:M:706:GLU:CD	2:M:707:ARG:H	2.26	0.43
2:M:767:PRO:O	2:M:768:THR:HG23	2.18	0.43
2:M:892:LEU:HD13	2:M:989:VAL:O	2.19	0.43
2:M:1106:ASP:OD1	3:N:7:LYS:NZ	2.41	0.43
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.54	0.43
3:N:28:LYS:C	3:N:30:GLU:H	2.26	0.43
3:N:97:THR:HB	3:N:571:LYS:HG3	2.00	0.43
3:N:536:ALA:CB	5:P:315:VAL:CG1	2.95	0.43
3:N:558:LEU:CD2	5:P:145:PRO:HB3	2.41	0.43
3:N:628:ARG:O	3:N:629:SER:CB	2.67	0.43
3:N:661:MET:HE1	3:N:677:LEU:CD1	2.48	0.43
3:N:670:VAL:HG12	3:N:674:ARG:HG3	2.01	0.43
3:N:676:MET:O	3:N:676:MET:SD	2.76	0.43
3:N:689:ASP:O	3:N:693:GLU:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1101:VAL:CG1	3:N:1424:VAL:HG23	2.38	0.43
1:A:185:ARG:O	1:A:186:LEU:HD12	2.19	0.43
2:C:307:LEU:C	2:C:309:TYR:H	2.26	0.43
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.49	0.43
2:C:549:PHE:CZ	2:C:886:LEU:HB3	2.54	0.43
2:C:554:ASP:O	2:C:555:ALA:C	2.62	0.43
3:D:130:SER:OG	3:D:131:LYS:N	2.52	0.43
3:D:138:LYS:HE3	3:D:138:LYS:N	2.34	0.43
3:D:148:GLU:HB3	3:D:151:GLN:CG	2.49	0.43
3:D:173:PRO:O	3:D:174:GLY:O	2.37	0.43
3:D:543:LEU:HD13	3:D:581:LEU:HA	1.99	0.43
3:D:841:TYR:HB3	3:D:843:PHE:CE2	2.53	0.43
3:D:896:ALA:O	3:D:899:LEU:CD1	2.67	0.43
3:D:996:TRP:C	3:D:998:GLU:N	2.77	0.43
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.99	0.43
3:D:1049:SER:CB	3:D:1051:GLU:HG2	2.49	0.43
3:D:1275:SER:HB2	3:D:1325:LEU:HD11	2.00	0.43
3:D:1380:GLU:HB3	3:D:1418:LYS:HB2	2.00	0.43
3:D:1405:GLU:O	3:D:1412:LYS:HA	2.18	0.43
3:D:1485:GLN:HE22	4:E:80:VAL:H	1.66	0.43
1:K:57:TYR:O	1:K:140:MET:HA	2.19	0.43
1:K:63:HIS:CD2	1:K:65:PHE:H	2.35	0.43
1:K:146:ARG:HE	1:K:147:GLY:N	2.17	0.43
2:M:327:HIS:C	2:M:329:GLY:N	2.77	0.43
2:M:345:ARG:CZ	2:M:345:ARG:HB2	2.49	0.43
2:M:710:ILE:HD11	2:M:758:ARG:HB2	2.01	0.43
2:M:917:LEU:N	2:M:917:LEU:HD23	2.34	0.43
3:N:32:ILE:HG23	3:N:38:LYS:O	2.19	0.43
3:N:101:HIS:HD2	3:N:582:LEU:HD13	1.81	0.43
3:N:471:GLU:OE2	3:N:503:LEU:HD21	2.19	0.43
3:N:665:GLY:O	3:N:666:ILE:C	2.61	0.43
3:N:754:PHE:HA	4:O:24:ALA:HB1	2.00	0.43
3:N:836:VAL:HG13	3:N:837:GLY:H	1.84	0.43
3:N:1004:THR:OG1	3:N:1036:ARG:HD2	2.19	0.43
3:N:1058:ARG:CG	3:N:1058:ARG:NH1	2.80	0.43
3:N:1166:LEU:HB2	3:N:1170:ASP:CB	2.48	0.43
3:N:1215:VAL:CG2	3:N:1216:SER:N	2.81	0.43
4:O:40:LEU:HD21	4:O:67:GLU:HA	1.99	0.43
5:P:416:ARG:NH2	5:P:419:ARG:NH1	2.67	0.43
1:A:10:VAL:O	1:A:12:THR:HG23	2.18	0.43
1:B:18:ARG:O	1:B:201:THR:HB	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:124:ASP:OD1	2:C:124:ASP:C	2.62	0.43
2:C:145:GLY:O	2:C:163:ILE:HG22	2.19	0.43
2:C:176:VAL:HG12	2:C:182:VAL:HG13	2.00	0.43
2:C:247:PRO:HA	2:C:248:PRO:HD3	1.92	0.43
2:C:660:ALA:O	2:C:667:ALA:HB3	2.19	0.43
2:C:672:VAL:HG22	2:C:868:ASP:CB	2.49	0.43
2:C:725:ASP:OD1	2:C:783:ARG:NH1	2.52	0.43
2:C:919:ALA:C	2:C:921:ALA:N	2.76	0.43
2:C:1118:LYS:HA	3:D:23:TYR:CE1	2.53	0.43
3:D:49:ILE:HG22	3:D:50:PHE:N	2.33	0.43
3:D:55:ASP:CB	3:D:82:LYS:HG2	2.49	0.43
3:D:443:VAL:HG12	3:D:445:ARG:HD2	2.00	0.43
3:D:676:MET:CE	3:D:684:LYS:HG3	2.49	0.43
3:D:864:VAL:CG1	3:D:865:THR:H	2.30	0.43
3:D:1051:GLU:HG2	3:D:1051:GLU:H	1.61	0.43
3:D:1306:PRO:O	3:D:1308:GLU:N	2.51	0.43
3:D:1365:ASP:O	3:D:1366:LYS:C	2.61	0.43
3:D:1478:SER:OG	3:D:1480:PHE:HB3	2.19	0.43
5:F:140:ARG:HG3	5:F:141:VAL:H	1.84	0.43
1:L:107:LYS:HE2	1:L:109:VAL:HG22	2.00	0.43
1:L:217:ILE:O	1:L:221:HIS:HD2	2.01	0.43
2:M:174:LEU:CD2	2:M:184:MET:HG2	2.49	0.43
2:M:188:LYS:CD	2:M:189:ARG:N	2.73	0.43
2:M:397:GLU:CG	2:M:632:ASN:H	2.32	0.43
2:M:474:VAL:HG12	2:M:530:GLU:C	2.44	0.43
2:M:544:THR:C	2:M:546:LEU:H	2.27	0.43
2:M:545:ASN:HB3	2:M:583:LEU:HD11	2.00	0.43
2:M:691:SER:OG	2:M:693:GLU:HB3	2.19	0.43
2:M:764:GLU:O	2:M:765:SER:OG	2.32	0.43
2:M:907:ASP:OD1	2:M:907:ASP:O	2.37	0.43
3:N:217:LYS:N	3:N:217:LYS:HD2	2.33	0.43
3:N:504:ASP:O	3:N:505:SER:C	2.62	0.43
3:N:627:GLY:O	3:N:746:ALA:HA	2.19	0.43
3:N:789:LEU:HD23	3:N:789:LEU:HA	1.86	0.43
3:N:1026:SER:O	3:N:1027:GLY:C	2.62	0.43
3:N:1031:ASN:ND2	3:N:1031:ASN:C	2.75	0.43
3:N:1488:ASP:CB	3:N:1490:LYS:HG3	2.49	0.43
4:O:5:GLY:O	4:O:9:LEU:HG	2.19	0.43
5:P:188:ILE:O	5:P:189:GLU:C	2.62	0.43
1:A:34:VAL:HB	1:B:42:ARG:CZ	2.49	0.42
1:B:189:ARG:HD2	1:B:189:ARG:N	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:100:LEU:HD21	2:C:367:LEU:HG	2.00	0.42
2:C:285:LEU:HD21	2:C:289:THR:HA	1.99	0.42
2:C:544:THR:HA	2:C:547:ILE:HD11	2.01	0.42
2:C:721:ARG:O	2:C:758:ARG:HG3	2.19	0.42
2:C:723:THR:OG1	2:C:725:ASP:OD2	2.33	0.42
2:C:1008:ARG:NH2	2:C:1021:LEU:H	2.16	0.42
2:C:1070:ILE:HD13	3:D:656:PHE:CE1	2.54	0.42
3:D:387:LEU:HB3	3:D:388:HIS:H	1.50	0.42
3:D:416:ALA:HB3	3:D:417:PRO:HD3	2.00	0.42
3:D:502:PHE:CZ	3:D:512:MET:HE2	2.54	0.42
3:D:739:ASP:OD2	3:D:741:ASP:OD2	2.37	0.42
3:D:843:PHE:CE1	3:D:849:ALA:HA	2.53	0.42
3:D:907:GLU:HG2	3:D:1027:GLY:H	1.83	0.42
3:D:907:GLU:O	3:D:911:LEU:HD22	2.19	0.42
3:D:950:GLY:N	3:D:953:ASP:OD1	2.45	0.42
3:D:1285:GLU:O	3:D:1285:GLU:HG2	2.19	0.42
3:D:1401:GLU:C	3:D:1403:LEU:N	2.77	0.42
3:D:1435:LEU:HB2	3:D:1457:ASP:OD2	2.19	0.42
4:E:59:ASN:CG	4:E:61:GLU:OE2	2.62	0.42
5:F:251:ILE:O	5:F:255:ALA:CB	2.67	0.42
1:K:26:GLU:CG	1:K:27:PRO:HA	2.48	0.42
1:L:1:MET:HE2	1:L:1:MET:N	2.34	0.42
1:L:100:LEU:CB	1:L:115:LEU:HD11	2.48	0.42
2:M:134:ARG:HB3	2:M:134:ARG:HH11	1.84	0.42
2:M:226:VAL:HG13	2:M:227:PHE:H	1.84	0.42
2:M:310:LEU:O	2:M:314:THR:HG23	2.18	0.42
2:M:886:LEU:O	2:M:889:HIS:N	2.52	0.42
2:M:943:VAL:O	2:M:946:ARG:N	2.52	0.42
3:N:993:LEU:C	3:N:995:LEU:N	2.76	0.42
3:N:1155:VAL:HG21	3:N:1183:ILE:CD1	2.49	0.42
3:N:1431:THR:HB	3:N:1432:LYS:HD2	2.00	0.42
5:P:393:THR:HG23	5:P:394:ARG:HD2	2.01	0.42
5:P:395:GLU:O	5:P:398:ARG:CD	2.67	0.42
5:P:397:ILE:C	5:P:399:GLN:N	2.77	0.42
1:A:26:GLU:HB2	1:A:27:PRO:HA	2.01	0.42
1:A:86:VAL:HG12	1:A:124:ASN:ND2	2.26	0.42
1:A:124:ASN:N	1:A:125:PRO:CD	2.82	0.42
2:C:20:GLU:O	2:C:24:GLU:HB2	2.18	0.42
2:C:351:LEU:HD11	2:C:373:VAL:HG13	2.01	0.42
3:D:54:LYS:O	3:D:55:ASP:O	2.37	0.42
3:D:166:GLN:HB3	3:D:395:VAL:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:671:LYS:O	3:D:674:ARG:HB2	2.20	0.42
3:D:1239:ARG:HB3	3:D:1240:THR:H	1.55	0.42
3:D:1277:ILE:CG2	3:D:1278:ASP:H	1.96	0.42
3:D:1457:ASP:OD1	3:D:1457:ASP:C	2.61	0.42
4:E:70:THR:O	4:E:72:ARG:N	2.47	0.42
5:F:140:ARG:HG3	5:F:140:ARG:NH1	2.34	0.42
5:F:270:LYS:CD	5:F:295:MET:HE1	2.49	0.42
2:M:208:ALA:HB2	2:M:222:MET:SD	2.58	0.42
2:M:939:ARG:H	2:M:939:ARG:HG2	1.67	0.42
2:M:1033:GLY:O	2:M:1036:GLU:OE1	2.36	0.42
2:M:1049:LEU:O	2:M:1053:LEU:CD2	2.61	0.42
2:M:1052:MET:HE2	3:N:748:HIS:HB3	2.01	0.42
2:M:1053:LEU:HD13	2:M:1053:LEU:HA	1.86	0.42
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.34	0.42
3:N:53:ILE:HG23	3:N:54:LYS:N	2.33	0.42
3:N:245:LEU:HD12	3:N:249:TYR:CB	2.45	0.42
3:N:564:GLU:HG2	3:N:565:ILE:H	1.84	0.42
3:N:1366:LYS:O	3:N:1367:HIS:C	2.61	0.42
4:O:47:LYS:HA	4:O:54:LEU:HB3	2.01	0.42
5:P:84:TYR:O	5:P:88:ILE:HG13	2.18	0.42
5:P:117:SER:C	5:P:119:ILE:N	2.77	0.42
5:P:316:SER:O	5:P:318:GLU:N	2.52	0.42
5:P:416:ARG:HB3	5:P:419:ARG:HB2	2.01	0.42
1:A:39:PRO:CG	1:B:39:PRO:HG3	2.44	0.42
1:A:44:LEU:HD22	1:A:199:ILE:HG12	2.01	0.42
1:B:3:ASP:HB3	1:B:4:SER:H	1.48	0.42
1:B:94:LEU:HD12	1:B:94:LEU:N	2.35	0.42
1:B:138:LEU:HD11	1:B:140:MET:HE1	2.01	0.42
2:C:80:GLN:O	2:C:81:ASP:C	2.62	0.42
2:C:139:GLN:HG2	2:C:140:ILE:N	2.34	0.42
2:C:297:GLU:OE1	2:C:297:GLU:O	2.37	0.42
2:C:317:VAL:HG13	2:C:319:GLY:O	2.19	0.42
2:C:395:LYS:O	2:C:633:GLN:NE2	2.51	0.42
2:C:835:VAL:HA	2:C:849:VAL:HG12	2.01	0.42
2:C:976:ASP:C	2:C:978:ARG:N	2.78	0.42
2:C:1098:ASP:OD1	2:C:1098:ASP:C	2.62	0.42
3:D:419:ASP:O	3:D:421:LEU:N	2.53	0.42
3:D:1031:ASN:OD1	3:D:1033:GLN:N	2.50	0.42
5:F:229:TYR:CE1	5:F:230:LYS:HG3	2.54	0.42
1:K:58:ILE:O	1:K:59:GLU:C	2.62	0.42
1:K:82:LEU:C	1:K:84:GLU:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:103:ALA:N	1:L:138:LEU:O	2.45	0.42
1:L:176:ARG:NH1	3:N:884:ARG:HD3	2.31	0.42
2:M:341:THR:O	2:M:345:ARG:HB2	2.19	0.42
2:M:517:ARG:O	2:M:519:GLY:N	2.52	0.42
2:M:720:GLU:HA	2:M:759:THR:O	2.19	0.42
2:M:897:LEU:CB	2:M:899:GLN:HE21	2.30	0.42
2:M:946:ARG:CD	2:M:984:GLU:HB2	2.49	0.42
3:N:30:GLU:OE2	3:N:41:ARG:NH2	2.52	0.42
3:N:76:CYS:O	3:N:78:VAL:N	2.52	0.42
3:N:95:LEU:HA	3:N:551:ASN:HD21	1.85	0.42
3:N:126:VAL:HG11	3:N:152:LEU:HD13	2.00	0.42
3:N:169:TYR:CG	3:N:169:TYR:O	2.71	0.42
3:N:196:VAL:CG1	3:N:202:VAL:HG13	2.49	0.42
3:N:209:ARG:HH21	3:N:397:LYS:HG3	1.81	0.42
3:N:240:GLU:HG3	3:N:240:GLU:O	2.19	0.42
3:N:685:ASP:O	3:N:687:VAL:N	2.52	0.42
3:N:941:PHE:O	3:N:945:SER:OG	2.26	0.42
3:N:1158:VAL:CG1	3:N:1159:ARG:H	2.26	0.42
3:N:1166:LEU:CD2	3:N:1166:LEU:H	2.32	0.42
4:O:54:LEU:CD2	4:O:54:LEU:O	2.67	0.42
5:P:120:THR:C	5:P:122:LEU:N	2.77	0.42
5:P:188:ILE:CD1	5:P:224:VAL:HG21	2.50	0.42
5:P:305:GLU:HG2	5:P:309:LYS:HE3	2.01	0.42
5:P:372:ARG:HB3	5:P:378:GLY:O	2.18	0.42
1:A:14:ARG:HH12	1:A:24:VAL:CG2	2.33	0.42
1:A:184:THR:HG22	1:A:192:LEU:O	2.19	0.42
1:A:187:GLY:O	1:A:188:GLN:C	2.63	0.42
1:B:124:ASN:N	1:B:125:PRO:HD3	2.34	0.42
2:C:3:ILE:CD1	2:C:900:ARG:HG3	2.49	0.42
2:C:300:ASP:CG	2:C:300:ASP:O	2.61	0.42
2:C:397:GLU:C	2:C:633:GLN:HG3	2.43	0.42
2:C:420:ARG:HB2	2:C:421:GLU:H	1.60	0.42
2:C:496:ILE:HA	2:C:531:PHE:O	2.19	0.42
2:C:544:THR:O	2:C:547:ILE:HD12	2.19	0.42
2:C:983:ILE:O	2:C:985:GLY:N	2.52	0.42
3:D:145:VAL:HG22	3:D:146:PRO:CD	2.22	0.42
3:D:171:LEU:HA	3:D:172:PRO:HD3	1.71	0.42
3:D:396:VAL:CG1	3:D:446:VAL:H	2.32	0.42
3:D:520:LEU:HD23	3:D:540:LEU:HD13	2.01	0.42
3:D:533:GLY:CA	5:F:309:LYS:HB3	2.44	0.42
3:D:598:ARG:HG2	3:D:598:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:846:PRO:O	3:D:847:ASP:C	2.61	0.42
3:D:907:GLU:CG	3:D:908:LYS:N	2.53	0.42
3:D:1128:VAL:O	3:D:1129:THR:CG2	2.67	0.42
3:D:1260:ILE:O	3:D:1261:GLU:C	2.62	0.42
5:F:108:GLU:HG3	5:F:176:ILE:HG21	2.01	0.42
2:M:22:GLN:O	2:M:121:MET:HE1	2.19	0.42
2:M:157:ARG:HH11	2:M:157:ARG:HG3	1.85	0.42
2:M:244:PRO:CG	2:M:245:GLY:N	2.82	0.42
2:M:249:LYS:O	2:M:251:ASP:N	2.52	0.42
2:M:283:ILE:O	2:M:283:ILE:HG22	2.19	0.42
2:M:311:PHE:HA	2:M:314:THR:OG1	2.19	0.42
2:M:351:LEU:O	2:M:355:VAL:HG12	2.20	0.42
2:M:526:PRO:HD2	2:M:527:GLU:OE2	2.18	0.42
2:M:554:ASP:O	2:M:555:ALA:C	2.62	0.42
2:M:630:ARG:HH11	2:M:630:ARG:CG	2.32	0.42
2:M:1005:MET:HB2	3:N:629:SER:HB2	2.01	0.42
2:M:1051:GLU:O	2:M:1052:MET:C	2.62	0.42
2:M:1085:PHE:HD2	2:M:1088:LEU:HD23	1.84	0.42
2:M:1088:LEU:O	2:M:1089:VAL:C	2.62	0.42
3:N:217:LYS:CD	3:N:217:LYS:H	2.32	0.42
3:N:224:ARG:HD2	3:N:225:LEU:N	2.35	0.42
3:N:457:GLY:O	3:N:459:GLU:N	2.53	0.42
3:N:496:LEU:O	3:N:500:ARG:HG2	2.18	0.42
3:N:559:ALA:C	3:N:561:GLY:H	2.27	0.42
3:N:700:VAL:CG2	3:N:718:PRO:HG3	2.46	0.42
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.46	0.42
4:O:25:LYS:O	4:O:29:GLN:HG2	2.19	0.42
4:O:61:GLU:C	4:O:63:TRP:N	2.76	0.42
5:P:365:GLU:HA	5:P:368:VAL:HG23	2.01	0.42
1:B:7:LYS:CE	1:B:186:LEU:HD13	2.50	0.42
2:C:71:TYR:CD2	2:C:71:TYR:N	2.86	0.42
2:C:246:ASP:HA	2:C:247:PRO:HD3	1.77	0.42
2:C:406:HIS:O	2:C:407:LYS:C	2.62	0.42
2:C:455:LEU:HD13	2:C:456:ALA:O	2.19	0.42
2:C:734:LEU:O	2:C:737:LEU:N	2.50	0.42
2:C:918:LEU:HD23	2:C:968:LEU:O	2.19	0.42
2:C:921:ALA:C	2:C:923:GLU:N	2.76	0.42
2:C:1005:MET:HE3	3:D:629:SER:HB2	2.02	0.42
3:D:116:LEU:HD23	3:D:116:LEU:HA	1.94	0.42
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.54	0.42
3:D:218:LYS:HD3	3:D:372:ASP:N	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:368:VAL:CG1	3:D:369:ALA:H	2.28	0.42
3:D:701:LEU:O	3:D:747:VAL:HA	2.19	0.42
3:D:756:GLN:O	3:D:760:ARG:HG2	2.19	0.42
3:D:813:LEU:HD12	3:D:813:LEU:C	2.44	0.42
3:D:1065:LEU:HD11	3:D:1069:GLU:HB3	2.00	0.42
3:D:1103:HIS:C	3:D:1105:ILE:H	2.26	0.42
3:D:1294:VAL:O	3:D:1300:SER:HA	2.19	0.42
5:F:118:GLU:C	5:F:120:THR:H	2.28	0.42
5:F:205:ARG:HH11	5:F:251:ILE:HG21	1.85	0.42
5:F:270:LYS:HB3	5:F:295:MET:CE	2.49	0.42
1:K:143:ARG:HG2	1:K:144:VAL:H	1.84	0.42
1:K:153:ALA:C	1:K:155:LYS:N	2.77	0.42
1:L:137:ARG:NH1	1:L:139:ASN:HB3	2.28	0.42
2:M:27:ARG:HB3	2:M:27:ARG:NH1	2.34	0.42
2:M:208:ALA:HB1	2:M:222:MET:CE	2.49	0.42
2:M:246:ASP:HA	2:M:247:PRO:HD3	1.81	0.42
2:M:604:ALA:HB3	2:M:612:VAL:C	2.45	0.42
2:M:627:ARG:HB3	2:M:627:ARG:CZ	2.49	0.42
2:M:800:VAL:C	2:M:801:VAL:CG1	2.93	0.42
2:M:893:ALA:O	2:M:895:TYR:N	2.53	0.42
2:M:1015:LEU:CD1	2:M:1016:ILE:HG23	2.49	0.42
2:M:1053:LEU:N	2:M:1053:LEU:HD22	2.35	0.42
3:N:133:ILE:HD12	3:N:158:TYR:CD2	2.55	0.42
3:N:438:ASP:O	3:N:441:ARG:O	2.37	0.42
3:N:783:ARG:O	3:N:785:ILE:N	2.52	0.42
3:N:965:GLU:C	3:N:967:ALA:N	2.77	0.42
3:N:1220:ALA:O	3:N:1221:VAL:C	2.61	0.42
5:P:101:GLU:O	5:P:105:LYS:HG3	2.19	0.42
5:P:243:ILE:O	5:P:244:ARG:C	2.62	0.42
1:A:73:GLU:HG3	1:A:130:ALA:CB	2.49	0.42
1:A:97:VAL:HG11	1:A:120:VAL:HG21	2.02	0.42
1:A:102:LYS:HA	1:A:139:ASN:HA	2.01	0.42
1:A:206:THR:HG22	1:A:208:LEU:H	1.82	0.42
2:C:438:ILE:CG2	2:C:453:THR:OG1	2.68	0.42
2:C:497:ALA:N	2:C:531:PHE:O	2.41	0.42
2:C:524:VAL:CG2	2:C:525:SER:H	2.17	0.42
2:C:903:SER:O	2:C:904:PRO:O	2.37	0.42
3:D:32:ILE:HD12	3:D:527:MET:CG	2.47	0.42
3:D:247:GLU:N	3:D:248:PRO:CD	2.83	0.42
3:D:456:MET:HE2	3:D:456:MET:N	2.33	0.42
3:D:646:LYS:O	3:D:649:ALA:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:667:ALA:HA	3:D:668:PRO:HD3	1.91	0.42
3:D:1280:VAL:CG1	3:D:1281:VAL:H	2.17	0.42
3:D:1404:ASN:CG	3:D:1408:ILE:HD12	2.44	0.42
5:F:141:VAL:O	5:F:145:PRO:CG	2.59	0.42
5:F:171:LYS:O	5:F:172:ARG:C	2.62	0.42
5:F:231:ARG:O	5:F:233:PHE:N	2.53	0.42
5:F:416:ARG:CZ	5:F:419:ARG:CG	2.98	0.42
1:K:20:TYR:HE2	1:K:198:ARG:HB3	1.84	0.42
1:K:44:LEU:HD13	1:K:177:VAL:HG21	2.00	0.42
1:K:85:LEU:HD11	1:K:87:VAL:HG12	2.02	0.42
1:L:58:ILE:HD13	1:L:140:MET:HB3	1.98	0.42
2:M:187:ASN:HB3	2:M:188:LYS:H	1.66	0.42
2:M:865:THR:HA	2:M:866:PRO:HD3	1.76	0.42
2:M:872:ASN:HA	2:M:873:PRO:HD3	1.87	0.42
2:M:1114:GLY:O	2:M:1116:ALA:N	2.50	0.42
3:N:81:THR:O	3:N:82:LYS:C	2.61	0.42
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.48	0.42
3:N:233:LYS:O	3:N:238:PRO:HD3	2.19	0.42
3:N:470:LEU:O	3:N:474:GLU:N	2.46	0.42
3:N:491:LYS:O	3:N:491:LYS:HD3	2.20	0.42
3:N:653:PHE:CE2	3:N:695:ILE:CD1	3.03	0.42
3:N:799:LYS:O	3:N:799:LYS:CD	2.57	0.42
3:N:989:TYR:O	3:N:992:ILE:HB	2.18	0.42
3:N:1045:MET:HA	3:N:1045:MET:HE3	2.01	0.42
3:N:1175:ILE:O	3:N:1175:ILE:HG22	2.20	0.42
3:N:1483:PHE:N	3:N:1483:PHE:CD1	2.88	0.42
4:O:93:TYR:HA	4:O:94:PRO:HD3	1.62	0.42
5:P:171:LYS:O	5:P:174:LEU:N	2.49	0.42
1:A:7:LYS:O	1:A:7:LYS:HG2	2.19	0.42
1:B:86:VAL:HG13	1:B:86:VAL:O	2.20	0.42
1:B:150:TYR:OH	1:B:168:ASP:HB3	2.20	0.42
2:C:148:PHE:HB3	2:C:313:LEU:CD2	2.50	0.42
2:C:241:LEU:C	2:C:242:LEU:HD12	2.45	0.42
2:C:602:GLU:N	2:C:614:ARG:O	2.50	0.42
2:C:611:ILE:HD12	2:C:625:LEU:HD21	2.01	0.42
2:C:691:SER:HB2	2:C:858:MET:SD	2.60	0.42
2:C:751:PRO:HG3	2:C:796:GLU:HA	2.01	0.42
2:C:1078:GLU:HA	2:C:1079:PRO:HD3	1.87	0.42
2:C:1098:ASP:HB2	3:D:13:ALA:HB2	2.02	0.42
3:D:631:ILE:HG21	3:D:745:MET:HB2	2.01	0.42
3:D:1195:GLN:HG2	3:D:1196:THR:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1340:GLY:O	3:D:1343:ALA:HB3	2.19	0.42
3:D:1366:LYS:O	3:D:1370:ILE:HG12	2.19	0.42
3:D:1396:GLU:C	3:D:1398:TRP:N	2.66	0.42
4:E:40:LEU:HD12	4:E:40:LEU:C	2.45	0.42
5:F:155:THR:O	5:F:159:ILE:HG13	2.20	0.42
5:F:203:THR:HA	5:F:212:LEU:HD13	2.02	0.42
5:F:262:VAL:O	5:F:266:GLU:HG3	2.19	0.42
5:F:366:ALA:HB3	5:F:367:MET:CE	2.49	0.42
1:L:1:MET:CE	1:L:1:MET:N	2.82	0.42
1:L:48:ILE:HA	1:L:49:PRO:HD3	1.72	0.42
1:L:75:VAL:C	1:L:77:GLU:N	2.78	0.42
1:L:180:GLN:O	1:L:196:THR:CG2	2.68	0.42
2:M:72:ARG:HG3	2:M:72:ARG:HH11	1.84	0.42
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.28	0.42
2:M:217:LEU:O	2:M:218:VAL:C	2.62	0.42
2:M:327:HIS:O	2:M:329:GLY:N	2.52	0.42
2:M:462:ASP:OD1	2:M:463:GLU:N	2.53	0.42
2:M:693:GLU:HG3	2:M:697:ARG:NH1	2.34	0.42
3:N:559:ALA:O	3:N:561:GLY:N	2.53	0.42
3:N:710:ARG:HG3	3:N:711:LEU:N	2.34	0.42
3:N:798:GLU:HG2	3:N:799:LYS:H	1.85	0.42
3:N:1117:TYR:N	3:N:1117:TYR:HD2	2.17	0.42
3:N:1146:GLY:HA3	3:N:1207:TYR:CD1	2.55	0.42
3:N:1344:VAL:O	3:N:1345:GLU:C	2.62	0.42
4:O:14:ASP:OD1	4:O:18:ARG:NH1	2.53	0.42
5:P:319:THR:HG22	5:P:320:PRO:N	2.34	0.42
2:C:865:THR:HA	2:C:866:PRO:HD3	1.59	0.42
2:C:1016:ILE:N	2:C:1016:ILE:CD1	2.64	0.42
2:C:1047:HIS:O	2:C:1048:THR:C	2.63	0.42
3:D:171:LEU:HB2	3:D:390:PRO:HG3	2.01	0.42
3:D:220:ARG:CA	3:D:367:ILE:HG22	2.49	0.42
3:D:765:SER:C	3:D:767:HIS:N	2.78	0.42
3:D:827:ILE:HG23	3:D:837:GLY:HA2	2.02	0.42
3:D:835:SER:O	3:D:836:VAL:C	2.63	0.42
3:D:1282:ARG:HH11	3:D:1295:GLU:CD	2.28	0.42
3:D:1331:ASP:O	3:D:1332:PRO:C	2.60	0.42
5:F:264:MET:O	5:F:268:ILE:HG13	2.19	0.42
1:K:97:VAL:HG12	1:K:99:LEU:HD12	2.02	0.42
1:K:189:ARG:NH1	1:L:155:LYS:HZ1	2.18	0.42
1:L:91:ASN:HA	1:L:92:PRO:HD3	1.83	0.42
1:L:188:GLN:HG3	1:L:189:ARG:N	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:370:ALA:CB	5:P:280:GLN:HA	2.50	0.42
2:M:401:LEU:O	2:M:404:LEU:HB3	2.20	0.42
2:M:675:ALA:O	2:M:870:ILE:HA	2.20	0.42
2:M:704:HIS:O	2:M:828:ALA:HA	2.20	0.42
2:M:722:ILE:HG21	2:M:821:GLU:OE1	2.20	0.42
2:M:833:LEU:HD12	2:M:837:ASP:OD1	2.20	0.42
2:M:899:GLN:HG3	2:M:901:TYR:CE2	2.55	0.42
2:M:971:LYS:HA	2:M:988:VAL:HA	2.01	0.42
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.49	0.42
3:N:428:LYS:HD3	3:N:451:ASP:OD1	2.19	0.42
3:N:459:GLU:OE1	5:P:144:ILE:HD12	2.19	0.42
3:N:671:LYS:O	3:N:672:ALA:C	2.63	0.42
3:N:806:PHE:CE1	3:N:813:LEU:HD23	2.54	0.42
3:N:825:ALA:HB1	3:N:829:VAL:HG21	2.02	0.42
4:O:45:ARG:HB3	4:O:46:PRO:HD2	2.01	0.42
5:P:373:LYS:HA	5:P:378:GLY:C	2.44	0.42
5:P:400:ILE:O	5:P:404:ALA:N	2.51	0.42
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.84	0.42
1:A:89:PHE:CE2	1:A:94:LEU:O	2.72	0.42
1:A:101:LEU:HD23	1:A:102:LYS:N	2.35	0.42
1:B:86:VAL:CG1	1:B:123:MET:HB2	2.46	0.42
2:C:19:THR:HG22	2:C:23:VAL:HG23	2.02	0.42
2:C:52:PHE:CB	2:C:53:PRO:HD3	2.50	0.42
2:C:139:GLN:CD	2:C:415:PRO:HD3	2.45	0.42
2:C:149:THR:CG2	2:C:150:PRO:HD2	2.49	0.42
2:C:589:ARG:HB2	2:C:589:ARG:HH11	1.85	0.42
2:C:679:PHE:C	3:D:943:THR:HG22	2.44	0.42
2:C:738:ASP:O	2:C:739:GLU:C	2.61	0.42
2:C:972:VAL:CG2	2:C:974:LEU:HD13	2.50	0.42
2:C:1012:PRO:C	2:C:1013:TYR:CD2	2.98	0.42
3:D:44:LEU:O	3:D:50:PHE:CE1	2.73	0.42
3:D:207:PHE:HB3	3:D:395:VAL:CG2	2.50	0.42
3:D:220:ARG:C	3:D:367:ILE:HG22	2.45	0.42
3:D:223:LEU:HA	3:D:365:ASP:CG	2.43	0.42
3:D:750:PRO:HG2	3:D:750:PRO:O	2.20	0.42
4:E:60:ALA:O	4:E:63:TRP:HB2	2.20	0.42
5:F:84:TYR:CZ	5:F:192:LEU:HD22	2.55	0.42
5:F:189:GLU:C	5:F:191:ASN:N	2.78	0.42
2:M:135:VAL:HG12	2:M:136:ILE:N	2.35	0.42
2:M:137:VAL:HG12	2:M:138:SER:N	2.34	0.42
2:M:150:PRO:HG3	2:M:158:TYR:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:174:LEU:HD23	2:M:184:MET:HA	2.02	0.42
2:M:432:ARG:CZ	3:N:1048:PRO:HD2	2.50	0.42
2:M:451:LEU:HD23	2:M:451:LEU:HA	1.92	0.42
2:M:625:LEU:HD11	2:M:641:PRO:HG3	2.01	0.42
2:M:856:GLU:H	2:M:856:GLU:HG3	1.54	0.42
2:M:971:LYS:HD2	2:M:986:PRO:O	2.20	0.42
3:N:61:GLY:O	3:N:62:LYS:C	2.62	0.42
3:N:159:ARG:HG3	3:N:159:ARG:NH1	2.34	0.42
3:N:179:VAL:HG11	3:N:217:LYS:CE	2.50	0.42
3:N:564:GLU:CG	3:N:565:ILE:HD12	2.40	0.42
3:N:619:LEU:O	3:N:619:LEU:HD23	2.20	0.42
3:N:757:ALA:HB1	3:N:761:ILE:HD12	2.01	0.42
3:N:939:PHE:O	3:N:940:THR:C	2.61	0.42
3:N:939:PHE:O	3:N:943:THR:HG22	2.20	0.42
3:N:1031:ASN:HB3	3:N:1034:GLN:HB2	2.01	0.42
3:N:1158:VAL:HG21	3:N:1173:LEU:HD21	2.01	0.42
3:N:1486:VAL:HG21	4:O:22:VAL:HG13	2.02	0.42
5:P:94:LEU:HB2	5:P:98:GLU:OE1	2.20	0.42
5:P:305:GLU:O	5:P:309:LYS:HG3	2.20	0.42
1:A:206:THR:HB	1:A:209:GLU:HB2	2.01	0.42
1:B:42:ARG:HG2	1:B:42:ARG:HH11	1.85	0.42
2:C:49:ARG:NH1	2:C:49:ARG:CB	2.69	0.42
2:C:493:ARG:HD2	2:C:494:TYR:OH	2.20	0.42
2:C:639:GLN:HA	2:C:657:ASP:O	2.20	0.42
2:C:725:ASP:OD2	2:C:725:ASP:N	2.53	0.42
2:C:1095:LEU:HA	3:D:582:LEU:CD2	2.50	0.42
3:D:183:GLU:C	3:D:186:VAL:HG12	2.44	0.42
3:D:413:ASP:OD2	3:D:419:ASP:HB3	2.19	0.42
3:D:653:PHE:CD1	3:D:653:PHE:N	2.84	0.42
3:D:729:HIS:CE1	3:D:731:LEU:HG	2.44	0.42
3:D:1076:GLY:CA	3:D:1079:LYS:HG2	2.48	0.42
3:D:1356:TYR:CD2	3:D:1363:LEU:HD23	2.55	0.42
5:F:240:THR:O	5:F:241:TRP:C	2.63	0.42
5:F:419:ARG:HG3	5:F:420:ASP:N	2.34	0.42
1:K:211:LEU:O	1:K:215:VAL:HG13	2.20	0.42
2:M:188:LYS:HD3	2:M:189:ARG:CA	2.47	0.42
2:M:266:ARG:HG3	2:M:266:ARG:NH1	2.34	0.42
2:M:343:GLN:HE21	2:M:343:GLN:HB2	1.65	0.42
2:M:516:ARG:CD	3:N:1068:LEU:HD13	2.47	0.42
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.85	0.42
2:M:1055:LEU:O	2:M:1063:ARG:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:45:PHE:HD1	3:N:522:PRO:HB3	1.85	0.42
3:N:137:PRO:HG2	3:N:453:ASP:HB3	2.02	0.42
3:N:212:ARG:HB2	3:N:445:ARG:HH21	1.85	0.42
3:N:225:LEU:HB2	3:N:227:LEU:CD1	2.50	0.42
3:N:455:ARG:NH2	5:P:140:ARG:HB2	2.27	0.42
3:N:477:LEU:O	3:N:481:MET:HB2	2.20	0.42
3:N:598:ARG:NH2	5:P:316:SER:OG	2.52	0.42
3:N:676:MET:SD	3:N:676:MET:C	3.03	0.42
3:N:924:MET:CB	4:O:7:ASP:OD2	2.66	0.42
3:N:930:LEU:HG	3:N:934:LEU:HD12	2.02	0.42
3:N:948:THR:O	3:N:1019:PRO:HB3	2.20	0.42
3:N:1393:GLN:O	3:N:1394:VAL:C	2.63	0.42
5:P:338:LEU:HA	5:P:339:PRO:HD3	1.76	0.42
1:A:198:ARG:NH2	2:C:934:PHE:HE1	2.17	0.41
1:B:114:PHE:O	1:B:116:PRO:HD3	2.19	0.41
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.48	0.41
2:C:188:LYS:HE2	2:C:188:LYS:CA	2.50	0.41
2:C:266:ARG:H	2:C:288:ARG:CD	2.32	0.41
2:C:395:LYS:CE	2:C:403:SER:HB2	2.50	0.41
2:C:395:LYS:CE	2:C:407:LYS:NZ	2.76	0.41
2:C:736:ASP:CG	2:C:747:ALA:HB1	2.45	0.41
2:C:816:LYS:HB2	2:C:819:VAL:CG2	2.50	0.41
2:C:923:GLU:O	2:C:926:PHE:N	2.52	0.41
2:C:961:GLU:OE1	2:C:961:GLU:HA	2.19	0.41
2:C:1053:LEU:HG	3:D:1466:VAL:HG13	2.01	0.41
2:C:1059:ASP:OD2	2:C:1080:SER:N	2.46	0.41
3:D:202:VAL:HG12	3:D:204:LEU:HD21	2.02	0.41
3:D:653:PHE:CD1	3:D:695:ILE:HD11	2.54	0.41
3:D:894:LYS:O	3:D:897:TRP:N	2.48	0.41
3:D:1101:VAL:CG2	3:D:1424:VAL:HG13	2.46	0.41
3:D:1207:TYR:CD1	3:D:1212:ALA:O	2.73	0.41
3:D:1331:ASP:OD2	3:D:1332:PRO:N	2.52	0.41
5:F:151:LEU:HB2	5:F:155:THR:N	2.21	0.41
5:F:248:ASN:O	5:F:251:ILE:HB	2.20	0.41
5:F:321:ILE:HG22	5:F:327:SER:O	2.20	0.41
5:F:358:LEU:CD1	5:F:370:LYS:HZ1	2.32	0.41
5:F:362:SER:O	5:F:364:ARG:N	2.53	0.41
2:M:277:ALA:O	2:M:281:LEU:O	2.38	0.41
2:M:340:MET:SD	2:M:340:MET:O	2.77	0.41
2:M:397:GLU:HG3	2:M:632:ASN:H	1.85	0.41
2:M:762:LYS:CG	2:M:763:GLY:H	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:897:LEU:O	2:M:898:GLY:C	2.63	0.41
2:M:1004:LYS:O	2:M:1006:HIS:ND1	2.53	0.41
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.50	0.41
3:N:103:TRP:C	3:N:104:PHE:HD2	2.27	0.41
3:N:486:ARG:NH2	3:N:489:ARG:CZ	2.83	0.41
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.50	0.41
3:N:703:ASN:HD22	3:N:703:ASN:HA	1.55	0.41
3:N:704:ARG:HH12	3:N:743:ASP:CG	2.28	0.41
3:N:936:TYR:O	3:N:937:TYR:C	2.61	0.41
3:N:1023:MET:HB3	3:N:1029:ARG:O	2.20	0.41
3:N:1090:ASP:O	3:N:1093:TYR:N	2.53	0.41
3:N:1187:PRO:O	3:N:1187:PRO:HG2	2.19	0.41
5:P:88:ILE:HG21	5:P:193:ARG:CD	2.50	0.41
5:P:350:LEU:O	5:P:354:LEU:HG	2.20	0.41
1:A:24:VAL:HG12	1:A:25:LEU:N	2.35	0.41
1:A:70:GLY:N	2:C:607:ASP:OD2	2.49	0.41
1:A:168:ASP:OD2	2:C:830:LYS:NZ	2.53	0.41
1:A:171:PHE:O	1:A:172:SER:C	2.64	0.41
1:B:26:GLU:HB2	1:B:27:PRO:HA	2.01	0.41
1:B:85:LEU:HD11	1:B:122:ILE:HG23	2.02	0.41
1:B:156:HIS:CD2	1:B:157:GLY:N	2.86	0.41
1:B:209:GLU:O	1:B:212:ASN:HB2	2.19	0.41
1:B:212:ASN:N	1:B:212:ASN:HD22	2.18	0.41
2:C:564:MET:HG2	2:C:840:ALA:CB	2.50	0.41
2:C:683:ASN:OD1	2:C:683:ASN:N	2.53	0.41
3:D:179:VAL:CG1	3:D:217:LYS:NZ	2.83	0.41
3:D:217:LYS:HZ1	3:D:389:GLU:CG	2.33	0.41
3:D:221:ALA:HB1	3:D:224:ARG:HD2	2.02	0.41
3:D:508:ARG:HG2	3:D:508:ARG:NH1	2.35	0.41
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.40	0.41
3:D:1148:VAL:HG13	3:D:1163:GLY:C	2.45	0.41
3:D:1176:LYS:HA	3:D:1179:GLU:CG	2.50	0.41
4:E:65:MET:O	4:E:69:LEU:HB2	2.20	0.41
5:F:79:ASP:O	5:F:83:GLN:N	2.32	0.41
5:F:408:LEU:HD23	5:F:408:LEU:C	2.45	0.41
1:K:179:PHE:O	1:K:180:GLN:CG	2.68	0.41
1:K:202:ASP:CG	1:K:204:SER:H	2.28	0.41
1:K:209:GLU:O	1:K:213:GLN:NE2	2.53	0.41
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.53	0.41
1:L:143:ARG:CD	1:L:158:ILE:HG21	2.50	0.41
2:M:196:LEU:HD12	2:M:238:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:263:ASP:CB	2:M:264:PRO:HD3	2.49	0.41
2:M:670:GLN:NE2	2:M:699:PHE:HA	2.31	0.41
2:M:751:PRO:CG	3:N:680:GLN:HE21	2.33	0.41
2:M:798:GLY:H	2:M:827:VAL:HG12	1.83	0.41
2:M:881:ASN:C	2:M:883:GLY:H	2.28	0.41
2:M:1060:ILE:HG13	2:M:1083:GLU:CG	2.36	0.41
3:N:131:LYS:HG2	3:N:456:MET:HE3	2.02	0.41
3:N:428:LYS:CD	3:N:451:ASP:HB3	2.50	0.41
3:N:789:LEU:O	3:N:792:ILE:CG2	2.68	0.41
3:N:790:TYR:CD2	3:N:1026:SER:HB3	2.55	0.41
3:N:845:ASN:H	3:N:848:GLU:HG3	1.85	0.41
3:N:1166:LEU:H	3:N:1166:LEU:HD23	1.85	0.41
3:N:1284:GLU:OE1	3:N:1284:GLU:HA	2.20	0.41
3:N:1490:LYS:HE3	4:O:39:VAL:HA	2.01	0.41
4:O:15:SER:O	4:O:16:LYS:C	2.63	0.41
4:O:83:ASP:C	4:O:85:LEU:H	2.27	0.41
5:P:110:MET:O	5:P:112:ALA:N	2.53	0.41
5:P:332:PHE:N	5:P:332:PHE:CD1	2.87	0.41
5:P:393:THR:HG22	5:P:394:ARG:N	2.34	0.41
1:A:101:LEU:O	1:A:102:LYS:HB2	2.19	0.41
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.55	0.41
2:C:431:HIS:H	2:C:434:HIS:CE1	2.38	0.41
2:C:657:ASP:OD2	2:C:662:GLU:O	2.39	0.41
2:C:758:ARG:O	2:C:759:THR:HG23	2.19	0.41
2:C:1113:GLU:C	2:C:1115:LEU:HD12	2.45	0.41
3:D:123:LEU:HD21	3:D:152:LEU:HD22	2.03	0.41
3:D:223:LEU:N	3:D:223:LEU:HD13	2.35	0.41
3:D:554:LEU:O	3:D:557:LEU:HB2	2.20	0.41
3:D:569:ASN:ND2	3:D:573:MET:SD	2.92	0.41
3:D:574:LEU:O	3:D:578:VAL:HG23	2.20	0.41
3:D:675:ARG:O	3:D:676:MET:C	2.63	0.41
3:D:675:ARG:HH22	5:F:420:ASP:HB3	1.84	0.41
3:D:774:SER:O	3:D:775:GLY:C	2.62	0.41
3:D:794:GLN:NE2	3:D:795:VAL:N	2.66	0.41
3:D:813:LEU:HG	3:D:814:ALA:H	1.85	0.41
3:D:956:ILE:HA	3:D:957:PRO:HD3	1.72	0.41
3:D:1014:ASN:C	3:D:1015:TYR:CD1	2.99	0.41
3:D:1114:THR:C	3:D:1116:ASN:N	2.79	0.41
3:D:1485:GLN:NE2	4:E:80:VAL:H	2.18	0.41
5:F:350:LEU:HA	5:F:422:LEU:HD12	2.02	0.41
1:L:19:GLU:OE1	1:L:203:GLY:CA	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:550:LEU:HD12	2:M:550:LEU:O	2.21	0.41
2:M:574:ALA:O	2:M:575:GLN:CB	2.62	0.41
2:M:583:LEU:O	2:M:585:GLU:N	2.54	0.41
2:M:695:LEU:C	2:M:697:ARG:N	2.74	0.41
2:M:697:ARG:C	2:M:699:PHE:H	2.28	0.41
2:M:775:ARG:O	2:M:779:GLY:N	2.53	0.41
2:M:841:ASN:ND2	2:M:843:HIS:HD2	2.16	0.41
2:M:873:PRO:O	2:M:874:LEU:C	2.63	0.41
2:M:892:LEU:HD21	2:M:967:PHE:CE1	2.54	0.41
2:M:1004:LYS:O	2:M:1005:MET:C	2.61	0.41
2:M:1067:TYR:OH	3:N:674:ARG:NH1	2.53	0.41
3:N:241:ILE:O	3:N:242:LEU:HD23	2.21	0.41
3:N:576:GLU:HA	3:N:579:ASP:OD2	2.20	0.41
3:N:806:PHE:CE1	3:N:809:PRO:O	2.72	0.41
3:N:965:GLU:C	3:N:967:ALA:H	2.28	0.41
3:N:983:LEU:HD22	3:N:987:GLU:HG2	2.01	0.41
3:N:1107:VAL:CG1	3:N:1217:ILE:HA	2.50	0.41
3:N:1113:GLY:O	3:N:1115:THR:N	2.53	0.41
3:N:1256:LEU:O	3:N:1257:PRO:C	2.62	0.41
5:P:77:THR:HG21	5:P:209:PHE:HD2	1.85	0.41
5:P:277:GLN:O	5:P:280:GLN:HB3	2.20	0.41
5:P:392:VAL:HG11	5:P:396:ARG:HD2	2.02	0.41
1:A:123:MET:O	1:A:125:PRO:HD3	2.17	0.41
1:B:62:LEU:HD12	1:B:63:HIS:H	1.85	0.41
1:B:62:LEU:HB3	1:B:163:ASN:CG	2.45	0.41
1:B:153:ALA:HB2	1:B:167:VAL:C	2.45	0.41
1:B:212:ASN:O	1:B:215:VAL:CG2	2.65	0.41
2:C:102:HIS:C	2:C:104:ASP:N	2.66	0.41
2:C:144:PRO:HA	2:C:163:ILE:HG23	2.01	0.41
2:C:548:PRO:HG3	2:C:842:ARG:NH1	2.35	0.41
2:C:564:MET:O	2:C:565:GLN:C	2.63	0.41
2:C:564:MET:HE3	2:C:567:GLN:OE1	2.21	0.41
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.79	0.41
2:C:1095:LEU:HD23	3:D:582:LEU:HA	2.01	0.41
3:D:40:GLU:O	3:D:41:ARG:O	2.38	0.41
3:D:566:ILE:HD13	5:F:217:ASN:HB3	2.01	0.41
3:D:729:HIS:HD1	3:D:731:LEU:H	1.68	0.41
3:D:732:VAL:O	3:D:735:ALA:HB3	2.20	0.41
3:D:736:PHE:O	3:D:738:ALA:N	2.53	0.41
3:D:882:PHE:O	3:D:883:ALA:C	2.64	0.41
3:D:1042:ARG:HH11	3:D:1065:LEU:CD2	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1076:GLY:C	3:D:1079:LYS:HG2	2.45	0.41
3:D:1198:TYR:CD1	3:D:1460:ILE:HD13	2.56	0.41
3:D:1209:LEU:HD22	3:D:1210:SER:H	1.81	0.41
5:F:237:THR:O	5:F:238:TYR:C	2.63	0.41
5:F:319:THR:O	5:F:329:TYR:HB2	2.20	0.41
5:F:359:SER:C	5:F:361:LEU:N	2.79	0.41
1:L:62:LEU:HD13	1:L:63:HIS:H	1.84	0.41
1:L:94:LEU:HD11	1:L:119:ASP:HB3	2.02	0.41
2:M:124:ASP:OD1	2:M:407:LYS:HE2	2.21	0.41
2:M:195:LEU:O	2:M:199:VAL:HG23	2.20	0.41
2:M:437:ARG:HA	2:M:467:ILE:HG21	2.02	0.41
2:M:449:ILE:O	2:M:450:GLY:C	2.64	0.41
2:M:486:MET:HE3	2:M:491:GLU:CA	2.51	0.41
2:M:650:ARG:O	2:M:651:LYS:C	2.64	0.41
2:M:711:GLU:O	2:M:758:ARG:HD2	2.21	0.41
2:M:736:ASP:HB3	2:M:743:VAL:HG23	2.01	0.41
2:M:1048:THR:OG1	3:N:755:ALA:CA	2.68	0.41
2:M:1092:LEU:HD22	2:M:1099:VAL:HG11	2.03	0.41
6:M:1120:STD:H32	3:N:1086:LEU:HA	2.01	0.41
3:N:119:SER:N	3:N:123:LEU:HB2	2.35	0.41
3:N:159:ARG:HG3	3:N:159:ARG:HH11	1.84	0.41
3:N:1004:THR:OG1	3:N:1036:ARG:CD	2.68	0.41
3:N:1031:ASN:HD22	3:N:1032:PRO:CD	2.33	0.41
3:N:1057:VAL:HG13	3:N:1069:GLU:CD	2.45	0.41
3:N:1372:VAL:HA	3:N:1375:MET:HG3	2.02	0.41
4:O:7:ASP:HA	4:O:10:PHE:HD1	1.84	0.41
1:A:57:TYR:CE1	1:A:161:ARG:HD3	2.56	0.41
1:A:65:PHE:CE1	2:C:799:ILE:HD11	2.55	0.41
1:A:115:LEU:HA	1:A:116:PRO:HD3	1.74	0.41
1:B:29:GLU:O	1:B:32:PHE:HD1	2.03	0.41
1:B:44:LEU:HD22	1:B:199:ILE:HD13	2.02	0.41
2:C:197:LEU:HD22	2:C:202:TYR:CB	2.50	0.41
2:C:600:ASP:O	2:C:615:TYR:HA	2.20	0.41
2:C:885:ILE:HG13	3:D:949:ILE:HG22	2.03	0.41
2:C:1066:ALA:O	2:C:1067:TYR:C	2.63	0.41
3:D:28:LYS:HD3	3:D:41:ARG:CD	2.44	0.41
3:D:135:LEU:HD23	3:D:135:LEU:O	2.21	0.41
3:D:162:ARG:O	3:D:164:GLY:N	2.47	0.41
3:D:388:HIS:ND1	3:D:390:PRO:HD3	2.36	0.41
3:D:477:LEU:O	3:D:481:MET:N	2.52	0.41
3:D:599:PRO:O	3:D:600:LEU:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:631:ILE:O	3:D:632:VAL:HG23	2.21	0.41
3:D:770:LEU:CD2	3:D:777:PRO:HB3	2.51	0.41
3:D:899:LEU:HD22	3:D:900:ILE:HG23	2.02	0.41
3:D:994:GLN:HE21	3:D:998:GLU:CG	2.33	0.41
3:D:1147:ARG:CD	3:D:1188:VAL:HG21	2.51	0.41
3:D:1156:LEU:C	3:D:1158:VAL:H	2.27	0.41
1:K:41:ARG:O	1:K:41:ARG:HG2	2.20	0.41
1:L:14:ARG:HH22	1:L:24:VAL:HG21	1.85	0.41
1:L:180:GLN:HB2	1:L:196:THR:CG2	2.51	0.41
1:L:201:THR:C	1:L:203:GLY:N	2.78	0.41
2:M:57:GLU:HB3	2:M:58:ASP:H	1.49	0.41
2:M:78:PHE:CD1	2:M:88:LEU:HD13	2.55	0.41
2:M:338:GLU:HA	2:M:341:THR:OG1	2.21	0.41
2:M:437:ARG:HH11	2:M:437:ARG:HG3	1.85	0.41
2:M:455:LEU:O	2:M:455:LEU:HD12	2.20	0.41
2:M:569:VAL:O	2:M:569:VAL:HG13	2.20	0.41
2:M:958:THR:HG23	2:M:961:GLU:CB	2.50	0.41
2:M:1019:GLN:HG2	2:M:1058:ASP:OD2	2.20	0.41
2:M:1043:TYR:CE2	3:N:763:MET:HG3	2.54	0.41
3:N:480:GLU:O	3:N:484:PRO:HD2	2.21	0.41
3:N:547:LEU:O	3:N:550:ARG:HB2	2.20	0.41
3:N:554:LEU:HD22	3:N:570:GLU:CG	2.44	0.41
3:N:731:LEU:HD23	3:N:731:LEU:HA	1.66	0.41
3:N:736:PHE:O	3:N:738:ALA:HB2	2.21	0.41
3:N:917:GLN:O	3:N:918:ALA:C	2.60	0.41
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.49	0.41
3:N:1048:PRO:O	3:N:1049:SER:C	2.63	0.41
3:N:1170:ASP:O	3:N:1172:HIS:N	2.54	0.41
3:N:1223:ILE:HG22	3:N:1224:VAL:N	2.36	0.41
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	2.03	0.41
3:N:1237:THR:O	3:N:1238:MET:HB2	2.21	0.41
3:N:1381:VAL:HB	3:N:1389:LEU:O	2.20	0.41
5:P:98:GLU:O	5:P:102:LEU:HG	2.20	0.41
1:A:156:HIS:O	1:A:157:GLY:C	2.63	0.41
1:B:23:PHE:HB2	1:B:197:LEU:HD23	2.01	0.41
2:C:25:SER:O	2:C:27:ARG:N	2.54	0.41
2:C:363:SER:C	2:C:364:GLU:HG3	2.45	0.41
2:C:473:ARG:HB3	2:C:480:THR:OG1	2.21	0.41
2:C:835:VAL:HG23	2:C:849:VAL:O	2.21	0.41
2:C:1016:ILE:HG12	2:C:1017:THR:H	1.86	0.41
3:D:112:ILE:HD11	3:D:124:GLU:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:224:ARG:H	3:D:365:ASP:CB	2.33	0.41
3:D:482:LYS:HA	3:D:489:ARG:NH2	2.36	0.41
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.54	0.41
3:D:868:TYR:HD2	3:D:868:TYR:HA	1.75	0.41
3:D:1372:VAL:O	3:D:1375:MET:N	2.52	0.41
5:F:78:SER:O	5:F:82:ARG:HB2	2.20	0.41
5:F:85:LEU:HD23	5:F:193:ARG:HD3	2.01	0.41
5:F:166:LEU:O	5:F:171:LYS:HB2	2.20	0.41
1:K:124:ASN:N	1:K:125:PRO:CD	2.81	0.41
1:L:75:VAL:O	1:L:77:GLU:N	2.54	0.41
2:M:134:ARG:HH12	2:M:392:SER:C	2.27	0.41
2:M:291:ALA:O	2:M:292:ARG:CB	2.67	0.41
2:M:571:LEU:HD23	2:M:700:TYR:HA	2.03	0.41
2:M:958:THR:CG2	2:M:961:GLU:HB2	2.50	0.41
3:N:40:GLU:O	3:N:41:ARG:C	2.63	0.41
3:N:74:GLU:C	3:N:75:ARG:NE	2.78	0.41
3:N:218:LYS:O	3:N:370:ALA:HB1	2.21	0.41
3:N:493:ARG:NH1	3:N:493:ARG:CB	2.84	0.41
3:N:601:ARG:CD	3:N:613:ARG:NH2	2.80	0.41
3:N:631:ILE:HG21	3:N:745:MET:SD	2.61	0.41
3:N:709:HIS:O	3:N:712:GLY:N	2.36	0.41
3:N:804:LEU:CD1	3:N:831:GLY:HA3	2.51	0.41
3:N:1136:LYS:HB2	3:N:1139:ASP:OD1	2.20	0.41
3:N:1198:TYR:OH	3:N:1394:VAL:HG11	2.20	0.41
4:O:81:PRO:O	4:O:82:GLU:C	2.64	0.41
5:P:102:LEU:O	5:P:103:ALA:C	2.64	0.41
5:P:345:ALA:O	5:P:348:SER:OG	2.39	0.41
5:P:365:GLU:HA	5:P:368:VAL:HB	2.03	0.41
1:A:80:LEU:HD12	1:A:80:LEU:HA	1.96	0.41
1:A:206:THR:O	1:A:207:PRO:C	2.62	0.41
2:C:35:PRO:HA	2:C:36:PRO:HD3	1.99	0.41
2:C:41:ASN:C	2:C:41:ASN:ND2	2.78	0.41
2:C:139:GLN:OE1	2:C:391:LEU:HD22	2.20	0.41
2:C:200:LEU:O	2:C:202:TYR:N	2.54	0.41
2:C:564:MET:HE2	2:C:997:LEU:CD1	2.49	0.41
2:C:575:GLN:HA	2:C:662:GLU:CD	2.46	0.41
2:C:647:GLN:NE2	2:C:650:ARG:NH2	2.69	0.41
2:C:801:VAL:O	2:C:802:ARG:CB	2.68	0.41
2:C:879:ARG:O	2:C:881:ASN:ND2	2.53	0.41
2:C:1031:ARG:NH1	2:C:1031:ARG:HG2	2.36	0.41
2:C:1085:PHE:CD1	2:C:1085:PHE:C	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:173:PRO:O	3:D:174:GLY:C	2.63	0.41
3:D:378:ILE:N	3:D:378:ILE:CD1	2.78	0.41
3:D:572:ARG:NE	5:F:80:PRO:HG3	2.36	0.41
3:D:638:LYS:N	3:D:641:GLN:OE1	2.54	0.41
3:D:653:PHE:O	3:D:654:LYS:C	2.62	0.41
3:D:741:ASP:OD1	3:D:741:ASP:C	2.64	0.41
3:D:792:ILE:HG12	3:D:793:THR:N	2.31	0.41
3:D:984:THR:HG23	3:D:987:GLU:N	2.26	0.41
3:D:1096:ARG:NH1	3:D:1096:ARG:CB	2.83	0.41
5:F:129:GLU:O	5:F:132:ARG:HB2	2.21	0.41
2:M:69:LEU:HB2	2:M:97:ARG:HB2	2.02	0.41
2:M:236:ILE:HD13	2:M:248:PRO:O	2.21	0.41
2:M:607:ASP:OD1	2:M:610:ARG:NH1	2.54	0.41
2:M:897:LEU:CD1	2:M:921:ALA:HB2	2.51	0.41
3:N:29:PRO:HG2	3:N:549:ASN:HD21	1.81	0.41
3:N:132:TYR:CE2	3:N:154:THR:HG23	2.55	0.41
3:N:186:VAL:O	3:N:211:VAL:HB	2.21	0.41
3:N:428:LYS:NZ	3:N:451:ASP:HB3	2.34	0.41
3:N:486:ARG:HH21	3:N:489:ARG:CZ	2.30	0.41
3:N:633:VAL:O	3:N:635:PRO:HD3	2.20	0.41
3:N:637:LEU:HD21	3:N:642:CYS:HA	2.03	0.41
3:N:699:VAL:HG12	3:N:717:GLN:HG3	2.03	0.41
3:N:783:ARG:HH12	3:N:1029:ARG:HH21	1.69	0.41
3:N:1074:SER:O	3:N:1078:ARG:HG2	2.20	0.41
5:P:389:PHE:CD1	5:P:389:PHE:C	2.99	0.41
1:A:104:GLU:O	1:A:105:GLY:O	2.38	0.41
1:A:198:ARG:HD3	1:A:200:TRP:CH2	2.56	0.41
1:A:206:THR:HG23	1:A:207:PRO:HD2	2.03	0.41
1:A:220:GLU:O	1:A:223:THR:HB	2.21	0.41
2:C:48:PHE:CD2	2:C:52:PHE:HE2	2.38	0.41
2:C:111:ASP:HB2	2:C:112:GLU:H	1.53	0.41
2:C:121:MET:HB2	2:C:127:PHE:HE2	1.85	0.41
2:C:238:LEU:O	2:C:242:LEU:HD13	2.19	0.41
2:C:289:THR:O	2:C:291:ALA:N	2.53	0.41
2:C:1005:MET:HE1	3:D:645:PRO:HG2	2.01	0.41
3:D:10:ILE:CD1	3:D:1434:TRP:CE2	3.04	0.41
3:D:34:TYR:CE2	5:F:261:PRO:HD3	2.56	0.41
3:D:119:SER:HB2	3:D:123:LEU:CA	2.48	0.41
3:D:544:TYR:O	3:D:545:ARG:C	2.64	0.41
3:D:770:LEU:HD21	3:D:919:PHE:HD1	1.86	0.41
3:D:775:GLY:CA	3:D:1145:TYR:HE1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1161:GLU:OE2	3:D:1164:ARG:NH1	2.54	0.41
3:D:1264:GLU:OE2	3:D:1425:THR:CB	2.66	0.41
4:E:41:GLU:N	4:E:42:PRO:CD	2.83	0.41
5:F:316:SER:C	5:F:318:GLU:N	2.77	0.41
5:F:406:ARG:O	5:F:409:LYS:HG2	2.21	0.41
1:L:44:LEU:HD23	1:L:48:ILE:CD1	2.51	0.41
2:M:146:VAL:HG12	2:M:162:ILE:CA	2.38	0.41
2:M:564:MET:CG	2:M:840:ALA:HB3	2.50	0.41
2:M:589:ARG:HD3	2:M:596:TYR:CE2	2.55	0.41
2:M:592:LEU:HA	2:M:592:LEU:HD23	1.77	0.41
2:M:607:ASP:HB2	2:M:610:ARG:H	1.86	0.41
2:M:1067:TYR:HE1	3:N:655:PRO:HG3	1.85	0.41
3:N:92:HIS:HA	3:N:519:VAL:HG23	2.03	0.41
3:N:162:ARG:CA	3:N:434:ARG:HH21	2.33	0.41
3:N:169:TYR:N	3:N:170:PRO:HD3	2.36	0.41
3:N:179:VAL:CG1	3:N:217:LYS:NZ	2.75	0.41
3:N:430:ASP:HB3	3:N:431:VAL:H	1.66	0.41
3:N:496:LEU:HD21	3:N:500:ARG:HE	1.86	0.41
3:N:788:GLY:O	3:N:792:ILE:HG22	2.21	0.41
3:N:996:TRP:CD2	3:N:1056:PRO:CG	3.04	0.41
3:N:1055:VAL:HA	3:N:1056:PRO:HD3	1.92	0.41
4:O:92:ILE:HG22	4:O:92:ILE:O	2.21	0.41
5:P:346:THR:C	5:P:348:SER:N	2.79	0.41
1:A:9:PRO:HB3	1:A:25:LEU:HD23	2.03	0.41
1:A:183:ASP:HA	1:A:192:LEU:O	2.21	0.41
1:B:33:GLY:O	1:B:195:LEU:HD13	2.21	0.41
1:B:185:ARG:NH2	3:D:689:ASP:OD1	2.54	0.41
2:C:3:ILE:HD13	2:C:900:ARG:HB2	2.02	0.41
2:C:9:ILE:O	2:C:10:ARG:C	2.62	0.41
2:C:97:ARG:HA	2:C:111:ASP:HA	2.03	0.41
2:C:251:ASP:HB3	2:C:252:LYS:H	1.59	0.41
2:C:284:ARG:O	2:C:301:GLU:HG2	2.21	0.41
2:C:449:ILE:HG22	2:C:450:GLY:N	2.35	0.41
2:C:547:ILE:HA	2:C:548:PRO:HD3	1.84	0.41
2:C:710:ILE:HD11	2:C:758:ARG:NE	2.36	0.41
2:C:946:ARG:NH1	2:C:984:GLU:HB2	2.35	0.41
2:C:981:GLU:HA	2:C:982:PRO:HD3	1.68	0.41
2:C:1030:GLN:NE2	3:D:628:ARG:HE	2.18	0.41
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.20	0.41
3:D:34:TYR:O	3:D:36:THR:N	2.54	0.41
3:D:50:PHE:O	3:D:86:ARG:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:50:PHE:HB2	3:D:522:PRO:HG2	2.03	0.41
3:D:74:GLU:HB2	3:D:75:ARG:HH11	1.85	0.41
3:D:119:SER:HB2	3:D:123:LEU:CB	2.47	0.41
3:D:119:SER:H	3:D:123:LEU:CB	2.25	0.41
3:D:139:GLY:CA	3:D:452:ILE:HD12	2.50	0.41
3:D:218:LYS:CD	3:D:370:ALA:HA	2.50	0.41
3:D:416:ALA:N	3:D:417:PRO:CD	2.84	0.41
3:D:572:ARG:NH1	5:F:79:ASP:OD2	2.54	0.41
3:D:583:ASP:CG	3:D:604:THR:HB	2.46	0.41
3:D:606:ILE:HG13	3:D:606:ILE:H	1.60	0.41
3:D:619:LEU:O	3:D:619:LEU:HD23	2.20	0.41
3:D:699:VAL:HG12	3:D:717:GLN:HA	2.03	0.41
3:D:708:LEU:HD23	3:D:708:LEU:N	2.34	0.41
3:D:729:HIS:O	3:D:732:VAL:HG22	2.20	0.41
3:D:810:GLU:C	3:D:812:ALA:H	2.28	0.41
3:D:884:ARG:O	3:D:885:ILE:C	2.63	0.41
3:D:895:VAL:O	3:D:898:GLU:N	2.54	0.41
3:D:984:THR:H	3:D:987:GLU:HB2	1.86	0.41
3:D:1122:LEU:C	3:D:1123:PHE:CG	2.99	0.41
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.74	0.41
3:D:1164:ARG:HG3	3:D:1164:ARG:HH11	1.86	0.41
3:D:1197:ARG:HD3	3:D:1396:GLU:HB3	2.03	0.41
3:D:1383:ASP:HB3	3:D:1416:ALA:H	1.85	0.41
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.68	0.41
5:F:144:ILE:N	5:F:145:PRO:CD	2.84	0.41
5:F:215:GLU:HA	5:F:215:GLU:OE1	2.21	0.41
5:F:234:LYS:HD3	5:F:235:PHE:H	1.85	0.41
5:F:335:ASP:OD1	5:F:336:GLU:N	2.54	0.41
1:L:37:GLY:O	1:L:38:ASN:C	2.63	0.41
2:M:47:ALA:HB2	2:M:345:ARG:NH1	2.35	0.41
2:M:97:ARG:NH2	2:M:109:LYS:NZ	2.69	0.41
2:M:122:THR:CG2	2:M:123:GLU:N	2.84	0.41
2:M:252:LYS:HB3	2:M:256:TYR:CE1	2.56	0.41
2:M:266:ARG:O	2:M:272:ALA:CB	2.56	0.41
2:M:545:ASN:HA	2:M:905:ILE:CG2	2.50	0.41
2:M:549:PHE:HB3	2:M:552:HIS:HD2	1.81	0.41
2:M:874:LEU:C	2:M:876:VAL:N	2.78	0.41
2:M:874:LEU:O	2:M:876:VAL:N	2.53	0.41
2:M:981:GLU:HB3	2:M:982:PRO:HD2	2.02	0.41
2:M:985:GLY:O	2:M:987:ILE:HD13	2.20	0.41
2:M:1007:ALA:HB2	3:N:648:MET:CG	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1094:ALA:HA	3:N:90:MET:HE1	2.03	0.41
6:M:1120:STD:H312	3:N:1086:LEU:HB2	2.02	0.41
3:N:40:GLU:O	3:N:41:ARG:O	2.39	0.41
3:N:185:VAL:HG12	3:N:189:GLN:HB3	2.03	0.41
3:N:219:GLU:HG3	3:N:220:ARG:HG3	2.03	0.41
3:N:231:VAL:HG12	3:N:378:ILE:HG23	2.02	0.41
3:N:246:PRO:HB2	3:N:247:GLU:H	1.59	0.41
3:N:388:HIS:CB	5:P:94:LEU:HD21	2.51	0.41
3:N:401:TYR:N	3:N:402:PRO:HD3	2.35	0.41
3:N:478:LEU:CD2	3:N:1388:ARG:NH1	2.84	0.41
3:N:513:ILE:H	3:N:513:ILE:HD12	1.85	0.41
3:N:560:GLN:NE2	3:N:560:GLN:CA	2.82	0.41
3:N:570:GLU:O	3:N:571:LYS:C	2.63	0.41
3:N:574:LEU:O	3:N:578:VAL:CG2	2.68	0.41
3:N:613:ARG:O	3:N:613:ARG:HG2	2.20	0.41
3:N:618:LEU:HD23	3:N:618:LEU:HA	1.78	0.41
3:N:892:ASP:HB3	3:N:895:VAL:CB	2.48	0.41
3:N:1007:VAL:CG2	3:N:1008:PHE:N	2.83	0.41
3:N:1094:LEU:HD13	3:N:1260:ILE:CD1	2.51	0.41
3:N:1271:LYS:HD3	3:N:1271:LYS:C	2.45	0.41
3:N:1289:LYS:HD3	3:N:1306:PRO:HA	2.03	0.41
3:N:1323:GLN:HA	3:N:1324:PRO:HD3	1.92	0.41
5:P:88:ILE:HG22	5:P:193:ARG:HH11	1.83	0.41
5:P:194:LEU:O	5:P:194:LEU:HD13	2.21	0.41
5:P:365:GLU:HG2	5:P:397:ILE:HG12	2.02	0.41
5:P:372:ARG:C	5:P:378:GLY:O	2.64	0.41
1:A:33:GLY:HA3	1:A:181:VAL:CG2	2.51	0.41
1:A:218:LEU:O	1:A:222:LEU:HD23	2.21	0.41
1:B:100:LEU:O	1:B:114:PHE:HA	2.21	0.41
2:C:3:ILE:CD1	2:C:900:ARG:HB2	2.51	0.41
2:C:343:GLN:HA	2:C:343:GLN:NE2	2.36	0.41
2:C:464:LEU:HG	2:C:464:LEU:O	2.20	0.41
2:C:474:VAL:HG13	2:C:529:VAL:O	2.21	0.41
2:C:549:PHE:HB3	2:C:552:HIS:CD2	2.45	0.41
2:C:708:TYR:CE2	2:C:793:PRO:CD	3.04	0.41
2:C:775:ARG:CZ	2:C:782:ALA:HB1	2.50	0.41
3:D:26:VAL:HG11	3:D:44:LEU:HD23	2.03	0.41
3:D:78:VAL:O	3:D:79:GLU:O	2.39	0.41
3:D:481:MET:HG2	3:D:482:LYS:N	2.33	0.41
3:D:546:ARG:O	3:D:550:ARG:HG2	2.21	0.41
3:D:584:ASN:CG	3:D:590:PRO:CD	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:591:VAL:HG11	3:D:597:ASP:HA	2.03	0.41
3:D:675:ARG:O	3:D:678:GLU:CG	2.59	0.41
3:D:1110:ALA:O	3:D:1111:ASP:C	2.62	0.41
3:D:1296:SER:OG	3:D:1297:GLU:N	2.53	0.41
3:D:1307:LYS:HE3	3:D:1308:GLU:HG3	2.03	0.41
3:D:1320:GLU:H	3:D:1323:GLN:NE2	2.18	0.41
3:D:1323:GLN:HA	3:D:1324:PRO:HD3	1.92	0.41
3:D:1364:HIS:ND1	3:D:1366:LYS:HG2	2.36	0.41
4:E:40:LEU:HB3	4:E:72:ARG:HE	1.86	0.41
4:E:45:ARG:O	4:E:46:PRO:C	2.63	0.41
5:F:153:PRO:HB2	5:F:154:LYS:H	1.65	0.41
1:K:104:GLU:O	1:K:105:GLY:O	2.39	0.41
1:L:221:HIS:O	1:L:224:TYR:N	2.49	0.41
2:M:139:GLN:HB3	2:M:334:ARG:CD	2.51	0.41
2:M:193:LEU:CD1	2:M:197:LEU:HD11	2.50	0.41
2:M:227:PHE:C	2:M:229:MET:N	2.79	0.41
2:M:374:ASN:ND2	2:M:377:PRO:HD3	2.36	0.41
2:M:389:SER:HB3	2:M:392:SER:HB3	2.02	0.41
2:M:398:THR:HG23	2:M:635:THR:CG2	2.48	0.41
2:M:473:ARG:HG2	2:M:473:ARG:NH1	2.34	0.41
2:M:480:THR:HG22	2:M:482:GLU:HB3	2.02	0.41
2:M:553:ASP:OD1	2:M:843:HIS:HB3	2.21	0.41
2:M:684:PHE:CE2	2:M:685:GLU:HG2	2.55	0.41
2:M:722:ILE:HD12	2:M:823:VAL:HG21	2.02	0.41
2:M:729:LEU:HB3	2:M:730:SER:H	1.40	0.41
2:M:861:LEU:O	2:M:863:ASP:O	2.39	0.41
3:N:131:LYS:HG3	3:N:568:ARG:HG2	2.02	0.41
3:N:210:ARG:HH11	3:N:398:ALA:CB	2.33	0.41
3:N:245:LEU:HB2	3:N:366:LYS:NZ	2.36	0.41
3:N:501:ALA:O	3:N:502:PHE:C	2.64	0.41
3:N:639:LEU:CD1	3:N:931:LEU:HD12	2.51	0.41
3:N:654:LYS:CB	3:N:655:PRO:CD	2.92	0.41
3:N:708:LEU:HB3	3:N:1231:GLU:HG2	2.03	0.41
3:N:902:LEU:HD12	3:N:902:LEU:C	2.46	0.41
3:N:1330:ILE:HG21	3:N:1335:LEU:HD12	2.03	0.41
3:N:1336:LEU:HD11	3:N:1341:PRO:HG3	2.02	0.41
5:P:88:ILE:CD1	5:P:193:ARG:HD2	2.51	0.41
5:P:114:LYS:C	5:P:116:LEU:N	2.79	0.41
1:A:33:GLY:C	1:A:181:VAL:HG21	2.46	0.40
1:A:153:ALA:HB2	1:A:168:ASP:N	2.36	0.40
1:B:34:VAL:C	1:B:36:LEU:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:225:PHE:CD1	1:B:225:PHE:N	2.89	0.40
2:C:16:PRO:O	2:C:17:PRO:C	2.62	0.40
2:C:173:ASP:O	2:C:184:MET:HA	2.21	0.40
2:C:299:LYS:O	2:C:299:LYS:HG3	2.20	0.40
2:C:473:ARG:O	2:C:480:THR:N	2.51	0.40
2:C:688:ILE:CG2	2:C:690:ILE:HD11	2.51	0.40
2:C:989:VAL:HG23	2:C:990:GLY:N	2.36	0.40
2:C:1005:MET:CE	3:D:648:MET:HB2	2.50	0.40
2:C:1117:SER:C	3:D:23:TYR:OH	2.64	0.40
3:D:66:GLN:H	3:D:66:GLN:HG2	1.44	0.40
3:D:804:LEU:HG	3:D:804:LEU:O	2.21	0.40
3:D:840:LYS:HD3	3:D:841:TYR:CZ	2.56	0.40
3:D:1003:VAL:O	3:D:1004:THR:C	2.64	0.40
3:D:1121:PRO:O	3:D:1122:LEU:HD12	2.21	0.40
3:D:1432:LYS:H	3:D:1432:LYS:HG3	1.69	0.40
5:F:98:GLU:H	5:F:98:GLU:HG3	1.71	0.40
5:F:119:ILE:H	5:F:119:ILE:HG13	1.54	0.40
5:F:148:LYS:HB2	5:F:148:LYS:HZ3	1.85	0.40
5:F:151:LEU:HD12	5:F:155:THR:OG1	2.20	0.40
5:F:164:LYS:HA	5:F:171:LYS:CE	2.51	0.40
1:K:52:ALA:HB3	1:K:171:PHE:CE1	2.56	0.40
1:K:110:LYS:O	1:K:112:ARG:N	2.54	0.40
1:L:77:GLU:HA	1:L:80:LEU:CB	2.50	0.40
2:M:14:PRO:O	2:M:15:LEU:C	2.62	0.40
2:M:114:PHE:CZ	5:P:283:GLY:HA3	2.56	0.40
2:M:208:ALA:CB	2:M:222:MET:SD	3.09	0.40
2:M:247:PRO:HA	2:M:248:PRO:HD3	1.72	0.40
2:M:443:THR:CB	2:M:444:PRO:CD	2.90	0.40
2:M:498:GLN:O	2:M:532:MET:HG3	2.21	0.40
2:M:544:THR:O	2:M:546:LEU:N	2.54	0.40
2:M:880:MET:CE	3:N:1034:GLN:HG2	2.47	0.40
2:M:1017:THR:OG1	2:M:1019:GLN:HG3	2.21	0.40
3:N:169:TYR:OH	5:P:92:PRO:HD2	2.20	0.40
3:N:231:VAL:HB	3:N:378:ILE:HG21	2.02	0.40
3:N:563:PRO:CG	5:P:185:GLN:OE1	2.62	0.40
3:N:791:TYR:O	3:N:794:GLN:HB2	2.21	0.40
3:N:859:ASP:HB2	3:N:862:ASP:HB2	2.03	0.40
3:N:1041:LEU:O	3:N:1041:LEU:HD23	2.21	0.40
3:N:1133:ARG:HG2	3:N:1134:LEU:O	2.21	0.40
3:N:1331:ASP:OD1	3:N:1333:HIS:HB2	2.21	0.40
1:A:3:ASP:O	1:A:7:LYS:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:40:LEU:O	1:A:43:ILE:N	2.55	0.40
1:A:76:VAL:O	1:A:80:LEU:HB2	2.22	0.40
1:A:132:LEU:HD12	1:A:132:LEU:N	2.36	0.40
1:A:137:ARG:HH11	1:A:137:ARG:HG3	1.86	0.40
1:A:210:ALA:O	1:A:212:ASN:N	2.54	0.40
1:B:76:VAL:HA	1:B:79:ILE:HG12	2.01	0.40
2:C:233:GLU:CD	2:C:237:ARG:HB2	2.46	0.40
2:C:243:ARG:HG2	2:C:243:ARG:NH1	2.35	0.40
2:C:264:PRO:HB2	2:C:289:THR:HB	2.03	0.40
2:C:398:THR:CA	2:C:633:GLN:HG3	2.51	0.40
2:C:474:VAL:HG12	2:C:530:GLU:C	2.46	0.40
2:C:613:VAL:HG21	2:C:615:TYR:CZ	2.57	0.40
2:C:728:HIS:C	2:C:729:LEU:HD22	2.46	0.40
2:C:983:ILE:CG2	3:D:946:GLY:HA2	2.52	0.40
2:C:1090:LYS:HD2	3:D:90:MET:CG	2.48	0.40
3:D:186:VAL:HG11	3:D:213:VAL:HG11	2.02	0.40
3:D:438:ASP:OD1	3:D:440:VAL:HG23	2.22	0.40
3:D:441:ARG:HG2	3:D:443:VAL:CG2	2.51	0.40
3:D:500:ARG:NH2	3:D:1388:ARG:NH1	2.66	0.40
3:D:776:GLU:HA	3:D:777:PRO:HD3	1.77	0.40
3:D:792:ILE:HG21	3:D:941:PHE:HD1	1.82	0.40
3:D:1385:GLY:HA3	3:D:1413:THR:HG21	2.02	0.40
3:D:1401:GLU:O	3:D:1402:ALA:C	2.63	0.40
4:E:30:LEU:O	4:E:35:PHE:CD1	2.74	0.40
4:E:52:GLU:HB3	4:E:55:PHE:CE2	2.56	0.40
5:F:248:ASN:O	5:F:249:ARG:C	2.64	0.40
1:L:15:THR:O	1:L:16:GLN:OE1	2.39	0.40
1:L:56:VAL:HG12	1:L:57:TYR:N	2.35	0.40
1:L:76:VAL:HG12	3:N:842:VAL:HG11	2.03	0.40
1:L:176:ARG:CG	1:L:200:TRP:HB2	2.51	0.40
2:M:585:GLU:C	2:M:587:VAL:N	2.79	0.40
2:M:1039:ALA:O	2:M:1042:ALA:HB3	2.21	0.40
3:N:63:TYR:CD1	3:N:63:TYR:N	2.90	0.40
3:N:787:LEU:HD12	3:N:787:LEU:HA	1.86	0.40
3:N:984:THR:OG1	3:N:985:ASP:N	2.53	0.40
3:N:1042:ARG:NH1	3:N:1045:MET:HE1	2.35	0.40
3:N:1046:GLN:NE2	3:N:1050:GLY:HA2	2.30	0.40
3:N:1069:GLU:O	3:N:1072:ILE:HG22	2.21	0.40
3:N:1080:GLY:O	3:N:1081:GLY:C	2.65	0.40
3:N:1238:MET:HG3	3:N:1239:ARG:HB2	2.02	0.40
3:N:1332:PRO:HB2	3:N:1421:LEU:HD21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:207:LEU:HB3	5:P:208:SER:H	1.70	0.40
1:B:101:LEU:C	1:B:101:LEU:CD2	2.94	0.40
2:C:79:PRO:HD2	2:C:82:GLU:OE2	2.21	0.40
2:C:142:ARG:NH2	2:C:147:TYR:CD1	2.89	0.40
2:C:200:LEU:HD23	2:C:298:PHE:C	2.46	0.40
2:C:211:LEU:HD13	2:C:304:LEU:CD1	2.51	0.40
2:C:389:SER:O	2:C:392:SER:N	2.54	0.40
2:C:626:ARG:HA	2:C:629:TYR:CE1	2.57	0.40
2:C:769:PRO:O	2:C:770:GLU:C	2.63	0.40
3:D:131:LYS:O	3:D:133:ILE:HD12	2.20	0.40
3:D:159:ARG:HB2	3:D:159:ARG:CZ	2.48	0.40
3:D:168:THR:CG2	3:D:170:PRO:HD3	2.47	0.40
3:D:236:TYR:O	3:D:237:LYS:HE3	2.22	0.40
3:D:553:ARG:O	3:D:557:LEU:HB2	2.22	0.40
3:D:820:GLU:C	3:D:822:ALA:N	2.80	0.40
3:D:1389:LEU:HG	3:D:1390:LEU:H	1.87	0.40
3:D:1480:PHE:CZ	4:E:18:ARG:NH2	2.89	0.40
5:F:93:LEU:HD23	5:F:93:LEU:HA	1.93	0.40
5:F:322:GLY:C	5:F:324:GLU:N	2.80	0.40
2:M:433:THR:C	2:M:435:TYR:N	2.79	0.40
2:M:437:ARG:HD3	2:M:467:ILE:HG22	2.03	0.40
2:M:549:PHE:CE2	2:M:887:GLU:HA	2.56	0.40
2:M:721:ARG:N	2:M:759:THR:O	2.54	0.40
2:M:774:LEU:HD13	2:M:774:LEU:O	2.21	0.40
2:M:887:GLU:O	2:M:888:THR:C	2.64	0.40
2:M:983:ILE:O	2:M:985:GLY:N	2.55	0.40
2:M:1034:GLU:OE2	3:N:618:LEU:HB3	2.22	0.40
3:N:127:LEU:HD22	3:N:134:VAL:HG21	2.04	0.40
3:N:244:GLU:HB3	3:N:366:LYS:O	2.21	0.40
3:N:423:ASP:CG	5:P:178:ARG:HB2	2.46	0.40
3:N:609:GLY:CA	3:N:613:ARG:HB3	2.51	0.40
3:N:669:ASN:ND2	3:N:671:LYS:H	2.18	0.40
3:N:871:LYS:CE	3:N:873:LEU:HD21	2.51	0.40
3:N:1320:GLU:HG3	3:N:1323:GLN:HE21	1.85	0.40
3:N:1401:GLU:O	3:N:1402:ALA:C	2.63	0.40
4:O:54:LEU:CD2	4:O:58:PRO:HB2	2.50	0.40
5:P:152:ASP:O	5:P:156:VAL:CG1	2.69	0.40
5:P:258:ILE:O	5:P:259:ARG:C	2.65	0.40
5:P:369:LEU:C	5:P:371:LEU:N	2.79	0.40
1:A:34:VAL:HB	1:B:42:ARG:NH2	2.37	0.40
1:A:64:GLU:HB2	1:A:165:ILE:HG21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:122:ILE:O	1:A:125:PRO:HD3	2.21	0.40
1:A:172:SER:HA	1:A:173:PRO:HD3	1.77	0.40
1:B:39:PRO:O	1:B:40:LEU:C	2.64	0.40
2:C:264:PRO:O	2:C:289:THR:OG1	2.40	0.40
2:C:586:ARG:CD	2:C:590:ASP:OD2	2.70	0.40
2:C:666:LEU:HA	2:C:666:LEU:HD12	1.89	0.40
2:C:860:HIS:C	2:C:861:LEU:O	2.64	0.40
2:C:1071:ILE:O	3:D:659:LYS:HG3	2.21	0.40
3:D:83:SER:O	3:D:84:ILE:C	2.65	0.40
3:D:616:GLN:HA	3:D:619:LEU:CB	2.41	0.40
3:D:655:PRO:HA	3:D:658:LEU:HD12	2.03	0.40
3:D:1224:VAL:O	3:D:1224:VAL:HG12	2.21	0.40
3:D:1264:GLU:O	3:D:1265:ALA:O	2.39	0.40
3:D:1407:LEU:HD12	3:D:1407:LEU:N	2.36	0.40
5:F:329:TYR:O	5:F:330:GLY:C	2.63	0.40
5:F:371:LEU:CA	5:F:375:LEU:H	2.31	0.40
1:K:43:ILE:CG2	1:K:217:ILE:HD12	2.51	0.40
2:M:176:VAL:O	2:M:176:VAL:HG23	2.21	0.40
2:M:218:VAL:CG1	2:M:222:MET:HE2	2.51	0.40
2:M:335:THR:O	2:M:339:LEU:HG	2.21	0.40
2:M:516:ARG:HE	3:N:1068:LEU:HD13	1.76	0.40
2:M:578:VAL:HG13	2:M:671:ASN:HB3	2.03	0.40
2:M:589:ARG:HD3	2:M:596:TYR:CZ	2.56	0.40
2:M:963:LEU:O	2:M:967:PHE:CB	2.69	0.40
2:M:1107:ASN:HA	2:M:1108:PRO:HD3	1.88	0.40
6:M:1120:STD:O6	6:M:1120:STD:C3	2.69	0.40
3:N:26:VAL:HG11	3:N:44:LEU:CD2	2.36	0.40
3:N:65:ARG:HD2	3:N:65:ARG:HA	1.91	0.40
3:N:125:GLN:HE22	3:N:587:ARG:CZ	2.34	0.40
3:N:231:VAL:C	3:N:378:ILE:HG12	2.46	0.40
3:N:466:LYS:HG2	3:N:510:GLU:CD	2.46	0.40
3:N:560:GLN:OE1	5:P:221:ILE:HG21	2.21	0.40
3:N:639:LEU:HD23	3:N:639:LEU:C	2.45	0.40
3:N:798:GLU:HB3	3:N:826:PRO:HG2	2.03	0.40
3:N:1175:ILE:O	3:N:1175:ILE:CG2	2.70	0.40
3:N:1258:ARG:CZ	3:N:1262:LEU:CD1	2.88	0.40
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.51	0.40
5:P:332:PHE:N	5:P:332:PHE:HD1	2.19	0.40
5:P:372:ARG:O	5:P:377:ASP:O	2.39	0.40
1:A:40:LEU:C	1:A:44:LEU:HD12	2.46	0.40
1:A:70:GLY:C	1:A:71:VAL:HG23	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:46:ALA:O	2:C:47:ALA:C	2.65	0.40
2:C:107:LEU:O	2:C:108:ILE:C	2.64	0.40
2:C:329:GLY:CA	2:C:488:ALA:HB3	2.52	0.40
2:C:351:LEU:C	2:C:353:ARG:N	2.79	0.40
2:C:679:PHE:CE1	2:C:870:ILE:HD13	2.57	0.40
2:C:805:ARG:O	2:C:806:LEU:CD2	2.69	0.40
2:C:816:LYS:HB2	2:C:819:VAL:HG21	2.04	0.40
2:C:905:ILE:HG22	2:C:906:PHE:N	2.37	0.40
3:D:153:LEU:N	3:D:153:LEU:HD23	2.35	0.40
3:D:210:ARG:CD	3:D:398:ALA:HB3	2.51	0.40
3:D:217:LYS:HE3	3:D:388:HIS:O	2.22	0.40
3:D:233:LYS:HZ3	3:D:237:LYS:HD2	1.86	0.40
3:D:376:GLU:HB3	3:D:383:GLY:O	2.22	0.40
3:D:426:LYS:C	3:D:427:VAL:HG23	2.46	0.40
3:D:1084:THR:C	3:D:1086:LEU:N	2.77	0.40
3:D:1258:ARG:O	3:D:1259:VAL:C	2.63	0.40
3:D:1429:LEU:O	3:D:1429:LEU:CD2	2.69	0.40
4:E:66:LYS:HD3	4:E:66:LYS:HA	1.95	0.40
5:F:221:ILE:O	5:F:223:ALA:N	2.54	0.40
5:F:291:ILE:HD13	5:F:304:VAL:HG13	2.00	0.40
5:F:313:GLU:O	5:F:314:PRO:C	2.65	0.40
1:L:13:VAL:HG22	1:L:23:PHE:HD1	1.86	0.40
1:L:165:ILE:HA	1:L:166:PRO:HD3	1.87	0.40
1:L:197:LEU:HD21	1:L:199:ILE:CG1	2.49	0.40
2:M:311:PHE:HA	2:M:314:THR:HG1	1.87	0.40
2:M:585:GLU:HB2	2:M:586:ARG:H	1.71	0.40
2:M:841:ASN:CG	2:M:843:HIS:H	2.29	0.40
2:M:1054:THR:HB	2:M:1055:LEU:H	1.38	0.40
2:M:1096:ALA:O	2:M:1097:LEU:O	2.40	0.40
3:N:33:ASN:O	3:N:35:ARG:N	2.54	0.40
3:N:39:PRO:HB3	3:N:45:PHE:O	2.22	0.40
3:N:455:ARG:CB	3:N:460:ALA:HB2	2.52	0.40
3:N:551:ASN:O	3:N:555:LYS:HG3	2.22	0.40
3:N:602:SER:O	3:N:606:ILE:HG13	2.22	0.40
3:N:634:GLY:O	3:N:637:LEU:HB2	2.21	0.40
3:N:836:VAL:O	3:N:838:ARG:N	2.55	0.40
3:N:871:LYS:HB3	3:N:873:LEU:HG	2.04	0.40
3:N:908:LYS:HB2	3:N:908:LYS:HE3	1.78	0.40
3:N:1044:LEU:HD23	3:N:1044:LEU:HA	1.89	0.40
3:N:1356:TYR:O	3:N:1361:VAL:HB	2.21	0.40
4:O:26:ARG:O	4:O:26:ARG:HD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:41:GLU:N	4:O:42:PRO:CD	2.85	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%)	163 (72%)	48 (21%)	16 (7%)	1	4
1	B	227/315 (72%)	167 (74%)	46 (20%)	14 (6%)	1	6
1	K	227/315 (72%)	154 (68%)	45 (20%)	28 (12%)	0	1
1	L	227/315 (72%)	169 (74%)	41 (18%)	17 (8%)	1	4
2	C	1117/1119 (100%)	768 (69%)	229 (20%)	120 (11%)	0	2
2	M	1117/1119 (100%)	758 (68%)	222 (20%)	137 (12%)	0	1
3	D	1388/1524 (91%)	940 (68%)	286 (21%)	162 (12%)	0	1
3	N	1388/1524 (91%)	916 (66%)	317 (23%)	155 (11%)	0	1
4	E	93/99 (94%)	66 (71%)	17 (18%)	10 (11%)	0	1
4	O	93/99 (94%)	56 (60%)	25 (27%)	12 (13%)	0	1
5	F	341/423 (81%)	239 (70%)	57 (17%)	45 (13%)	0	1
5	P	341/423 (81%)	250 (73%)	54 (16%)	37 (11%)	0	1
All	All	6786/7590 (89%)	4646 (68%)	1387 (20%)	753 (11%)	0	1

All (753) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	118	ALA
1	A	160	ASP
1	A	188	GLN

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Mol	Chain	Res	Type
1	B	3	ASP
1	B	96	THR
1	B	160	ASP
1	B	204	SER
2	C	7	GLY
2	C	10	ARG
2	C	18	LEU
2	C	23	VAL
2	C	24	GLU
2	C	111	ASP
2	C	223	ASP
2	C	231	PRO
2	C	244	PRO
2	C	246	ASP
2	C	251	ASP
2	C	253	ALA
2	C	261	ILE
2	C	369	PRO
2	C	377	PRO
2	C	419	THR
2	C	423	ALA
2	C	425	PHE
2	C	462	ASP
2	C	550	LEU
2	C	600	ASP
2	C	627	ARG
2	C	698	ASP
2	C	727	PRO
2	C	735	ARG
2	C	738	ASP
2	C	762	LYS
2	C	767	PRO
2	C	813	VAL
2	C	864	GLY
2	C	904	PRO
2	C	905	ILE
2	C	984	GLU
2	C	1004	LYS
2	C	1045	ALA
2	C	1056	LYS
2	C	1096	ALA
2	C	1113	GLU

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Mol	Chain	Res	Type
3	D	41	ARG
3	D	49	ILE
3	D	55	ASP
3	D	69	GLU
3	D	82	LYS
3	D	110	SER
3	D	120	ALA
3	D	128	TYR
3	D	133	ILE
3	D	136	ASP
3	D	138	LYS
3	D	140	ALA
3	D	141	ILE
3	D	149	LYS
3	D	199	LEU
3	D	202	VAL
3	D	208	PRO
3	D	209	ARG
3	D	238	PRO
3	D	247	GLU
3	D	373	PRO
3	D	385	VAL
3	D	416	ALA
3	D	417	PRO
3	D	420	VAL
3	D	431	VAL
3	D	504	ASP
3	D	526	PRO
3	D	554	LEU
3	D	594	PRO
3	D	601	ARG
3	D	611	GLN
3	D	652	LEU
3	D	670	VAL
3	D	694	VAL
3	D	705	ALA
3	D	765	SER
3	D	766	ALA
3	D	783	ARG
3	D	807	ALA
3	D	1028	ALA
3	D	1066	THR

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Mol	Chain	Res	Type
3	D	1111	ASP
3	D	1114	THR
3	D	1131	SER
3	D	1152	GLU
3	D	1197	ARG
3	D	1207	TYR
3	D	1237	THR
3	D	1243	THR
3	D	1269	LYS
3	D	1287	GLU
3	D	1389	LEU
3	D	1390	LEU
3	D	1410	GLU
3	D	1430	SER
3	D	1451	ALA
3	D	1452	ILE
3	D	1504	GLU
4	E	41	GLU
4	E	42	PRO
4	E	46	PRO
5	F	75	ILE
5	F	76	SER
5	F	77	THR
5	F	97	GLU
5	F	138	SER
5	F	147	LEU
5	F	153	PRO
5	F	232	ARG
5	F	297	PRO
5	F	341	PRO
5	F	385	GLU
5	F	390	PHE
1	K	59	GLU
1	K	109	VAL
1	K	118	ALA
1	K	188	GLN
1	L	3	ASP
1	L	116	PRO
1	L	158	ILE
1	L	171	PHE
2	M	12	VAL
2	M	57	GLU

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Mol	Chain	Res	Type
2	M	80	GLN
2	M	90	TYR
2	M	111	ASP
2	M	119	PRO
2	M	152	PRO
2	M	153	ALA
2	M	170	PRO
2	M	178	PRO
2	M	223	ASP
2	M	231	PRO
2	M	244	PRO
2	M	246	ASP
2	M	251	ASP
2	M	253	ALA
2	M	261	ILE
2	M	264	PRO
2	M	265	ARG
2	M	292	ARG
2	M	419	THR
2	M	422	ARG
2	M	456	ALA
2	M	462	ASP
2	M	486	MET
2	M	500	ASN
2	M	548	PRO
2	M	574	ALA
2	M	584	GLU
2	M	586	ARG
2	M	607	ASP
2	M	626	ARG
2	M	680	ASP
2	M	684	PHE
2	M	727	PRO
2	M	762	LYS
2	M	781	LYS
2	M	784	ASP
2	M	807	ARG
2	M	1016	ILE
2	M	1045	ALA
2	M	1059	ASP
2	M	1060	ILE
2	M	1097	LEU

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Mol	Chain	Res	Type
2	M	1106	ASP
3	N	34	TYR
3	N	41	ARG
3	N	77	GLY
3	N	82	LYS
3	N	119	SER
3	N	120	ALA
3	N	130	SER
3	N	131	LYS
3	N	141	ILE
3	N	146	PRO
3	N	149	LYS
3	N	198	ARG
3	N	208	PRO
3	N	209	ARG
3	N	217	LYS
3	N	246	PRO
3	N	406	ASP
3	N	410	SER
3	N	417	PRO
3	N	430	ASP
3	N	504	ASP
3	N	594	PRO
3	N	629	SER
3	N	639	LEU
3	N	666	ILE
3	N	737	ASN
3	N	774	SER
3	N	807	ALA
3	N	822	ALA
3	N	824	ASN
3	N	832	ARG
3	N	891	GLU
3	N	922	LEU
3	N	949	ILE
3	N	1028	ALA
3	N	1049	SER
3	N	1161	GLU
3	N	1167	SER
3	N	1182	GLU
3	N	1208	ASP
3	N	1215	VAL

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Mol	Chain	Res	Type
3	N	1221	VAL
3	N	1237	THR
3	N	1239	ARG
3	N	1265	ALA
3	N	1287	GLU
3	N	1307	LYS
3	N	1308	GLU
3	N	1384	PRO
3	N	1388	ARG
4	O	17	TYR
4	O	42	PRO
4	O	82	GLU
5	P	76	SER
5	P	135	ILE
5	P	145	PRO
5	P	190	ALA
5	P	203	THR
5	P	232	ARG
5	P	236	SER
5	P	282	LEU
5	P	297	PRO
5	P	363	GLU
5	P	364	ARG
5	P	421	PHE
1	A	59	GLU
1	A	93	SER
1	A	105	GLY
1	A	116	PRO
1	A	183	ASP
1	A	187	GLY
1	B	35	THR
2	C	53	PRO
2	C	74	GLY
2	C	288	ARG
2	C	450	GLY
2	C	541	SER
2	C	551	GLU
2	C	570	PRO
2	C	598	GLU
2	C	608	GLY
2	C	644	VAL
2	C	692	GLU

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Mol	Chain	Res	Type
2	C	783	ARG
2	C	807	ARG
2	C	874	LEU
2	C	922	PHE
2	C	977	GLY
2	C	1012	PRO
2	C	1016	ILE
2	C	1080	SER
3	D	37	LEU
3	D	78	VAL
3	D	84	ILE
3	D	125	GLN
3	D	129	PHE
3	D	137	PRO
3	D	178	LEU
3	D	179	VAL
3	D	187	LYS
3	D	201	GLY
3	D	220	ARG
3	D	221	ALA
3	D	234	GLU
3	D	424	GLY
3	D	440	VAL
3	D	450	TYR
3	D	453	ASP
3	D	560	GLN
3	D	602	SER
3	D	647	ARG
3	D	826	PRO
3	D	870	GLY
3	D	1049	SER
3	D	1065	LEU
3	D	1082	ALA
3	D	1104	GLU
3	D	1115	THR
3	D	1127	GLU
3	D	1132	LEU
3	D	1196	THR
3	D	1233	GLY
3	D	1234	THR
3	D	1265	ALA
3	D	1274	ILE

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Mol	Chain	Res	Type
3	D	1307	LYS
3	D	1315	ASP
3	D	1443	THR
3	D	1470	ARG
4	E	58	PRO
4	E	71	GLY
4	E	82	GLU
5	F	148	LYS
5	F	202	TYR
5	F	204	GLY
5	F	288	TYR
5	F	295	MET
5	F	329	TYR
5	F	330	GLY
5	F	351	SER
5	F	363	GLU
5	F	374	GLY
5	F	375	LEU
5	F	386	VAL
5	F	399	GLN
1	K	4	SER
1	K	11	PHE
1	K	30	ARG
1	K	47	SER
1	K	92	PRO
1	K	105	GLY
1	K	138	LEU
1	K	162	ILE
1	K	176	ARG
1	K	215	VAL
1	K	226	SER
1	L	4	SER
1	L	11	PHE
1	L	214	ALA
1	L	224	TYR
2	M	7	GLY
2	M	29	ALA
2	M	87	ASP
2	M	105	THR
2	M	113	VAL
2	M	129	ILE
2	M	187	ASN

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Mol	Chain	Res	Type
2	M	224	GLU
2	M	267	TYR
2	M	326	ASP
2	M	328	LEU
2	M	369	PRO
2	M	415	PRO
2	M	443	THR
2	M	471	TYR
2	M	498	GLN
2	M	537	LYS
2	M	545	ASN
2	M	556	ASN
2	M	575	GLN
2	M	616	GLU
2	M	627	ARG
2	M	652	GLY
2	M	699	PHE
2	M	730	SER
2	M	745	ILE
2	M	763	GLY
2	M	765	SER
2	M	767	PRO
2	M	783	ARG
2	M	813	VAL
2	M	857	ASP
2	M	875	GLY
2	M	893	ALA
2	M	894	GLY
2	M	905	ILE
2	M	984	GLU
2	M	1004	LYS
2	M	1057	SER
2	M	1115	LEU
3	N	24	GLY
3	N	55	ASP
3	N	56	TYR
3	N	58	CYS
3	N	62	LYS
3	N	67	ARG
3	N	98	PRO
3	N	137	PRO
3	N	238	PRO

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Mol	Chain	Res	Type
3	N	241	ILE
3	N	369	ALA
3	N	415	VAL
3	N	424	GLY
3	N	449	SER
3	N	463	GLN
3	N	480	GLU
3	N	484	PRO
3	N	506	GLY
3	N	564	GLU
3	N	569	ASN
3	N	571	LYS
3	N	582	LEU
3	N	622	ARG
3	N	816	HIS
3	N	836	VAL
3	N	864	VAL
3	N	989	TYR
3	N	1064	GLY
3	N	1111	ASP
3	N	1114	THR
3	N	1125	PRO
3	N	1126	ASP
3	N	1129	THR
3	N	1156	LEU
3	N	1236	LEU
3	N	1389	LEU
3	N	1390	LEU
3	N	1394	VAL
3	N	1423	GLY
3	N	1439	SER
3	N	1461	GLY
3	N	1475	GLY
4	O	44	GLU
5	P	77	THR
5	P	115	LYS
5	P	148	LYS
5	P	168	LYS
5	P	334	PRO
5	P	346	THR
5	P	347	GLN
5	P	376	ILE

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Mol	Chain	Res	Type
5	P	416	ARG
1	A	102	LYS
1	B	30	ARG
1	B	58	ILE
1	B	118	ALA
2	C	27	ARG
2	C	31	GLN
2	C	43	GLY
2	C	48	PHE
2	C	57	GLU
2	C	152	PRO
2	C	186	VAL
2	C	188	LYS
2	C	189	ARG
2	C	224	GLU
2	C	228	ALA
2	C	273	GLY
2	C	292	ARG
2	C	363	SER
2	C	467	ILE
2	C	492	ASP
2	C	518	LYS
2	C	555	ALA
2	C	802	ARG
2	C	937	ASP
2	C	957	LYS
2	C	1020	PRO
2	C	1055	LEU
2	C	1057	SER
2	C	1071	ILE
3	D	79	GLU
3	D	119	SER
3	D	174	GLY
3	D	233	LYS
3	D	237	LYS
3	D	522	PRO
3	D	580	ALA
3	D	610	LYS
3	D	671	LYS
3	D	735	ALA
3	D	799	LYS
3	D	836	VAL

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Mol	Chain	Res	Type
3	D	893	GLU
3	D	997	THR
3	D	1136	LYS
3	D	1161	GLU
3	D	1198	TYR
3	D	1263	PHE
3	D	1341	PRO
3	D	1349	VAL
3	D	1475	GLY
4	E	87	LYS
5	F	241	TRP
5	F	264	MET
5	F	286	PRO
5	F	298	GLY
5	F	395	GLU
5	F	401	GLU
5	F	414	ARG
1	K	37	GLY
1	K	46	SER
1	K	111	ALA
1	K	214	ALA
1	L	18	ARG
1	L	59	GLU
2	M	10	ARG
2	M	190	LYS
2	M	202	TYR
2	M	273	GLY
2	M	367	LEU
2	M	458	TYR
2	M	518	LYS
2	M	585	GLU
2	M	693	GLU
2	M	735	ARG
2	M	814	GLU
2	M	856	GLU
2	M	876	VAL
2	M	1079	PRO
2	M	1108	PRO
3	N	68	PHE
3	N	83	SER
3	N	85	VAL
3	N	124	GLU

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Mol	Chain	Res	Type
3	N	135	LEU
3	N	240	GLU
3	N	368	VAL
3	N	387	LEU
3	N	451	ASP
3	N	706	PRO
3	N	784	ASP
3	N	1029	ARG
3	N	1058	ARG
3	N	1066	THR
3	N	1139	ASP
3	N	1155	VAL
3	N	1164	ARG
3	N	1197	ARG
3	N	1306	PRO
3	N	1321	ALA
3	N	1366	LYS
3	N	1435	LEU
3	N	1436	SER
4	O	16	LYS
4	O	41	GLU
4	O	46	PRO
4	O	64	ALA
5	P	110	MET
5	P	147	LEU
5	P	191	ASN
5	P	233	PHE
5	P	286	PRO
5	P	324	GLU
5	P	419	ARG
1	A	106	PRO
1	A	157	GLY
1	B	116	PRO
2	C	28	ARG
2	C	52	PHE
2	C	179	ASN
2	C	232	GLU
2	C	241	LEU
2	C	267	TYR
2	C	290	LEU
2	C	293	PHE
2	C	314	THR

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Mol	Chain	Res	Type
2	C	548	PRO
2	C	680	ASP
2	C	684	PHE
2	C	1007	ALA
2	C	1046	ALA
2	C	1062	GLY
2	C	1070	ILE
3	D	121	THR
3	D	135	LEU
3	D	146	PRO
3	D	177	ALA
3	D	483	HIS
3	D	509	PRO
3	D	587	ARG
3	D	635	PRO
3	D	808	THR
3	D	902	LEU
3	D	1040	GLY
3	D	1058	ARG
3	D	1059	SER
3	D	1385	GLY
4	E	44	GLU
5	F	190	ALA
5	F	327	SER
5	F	376	ILE
5	F	416	ARG
5	F	421	PHE
1	K	3	ASP
1	K	45	LEU
1	K	54	THR
1	K	144	VAL
2	M	53	PRO
2	M	161	SER
2	M	314	THR
2	M	780	GLU
2	M	810	ASP
2	M	916	GLU
2	M	925	TYR
2	M	929	ARG
2	M	998	TYR
2	M	1056	LYS
2	M	1113	GLU

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Mol	Chain	Res	Type
3	N	162	ARG
3	N	234	GLU
3	N	370	ALA
3	N	416	ALA
3	N	487	ALA
3	N	692	GLU
3	N	724	GLN
3	N	869	MET
3	N	1341	PRO
3	N	1351	GLU
4	O	72	ARG
5	P	165	SER
5	P	301	ALA
5	P	341	PRO
1	A	124	ASN
2	C	14	PRO
2	C	178	PRO
2	C	480	THR
2	C	502	PRO
2	C	545	ASN
2	C	780	GLU
2	C	859	PRO
2	C	1112	PHE
3	D	442	ASN
3	D	451	ASP
3	D	486	ARG
3	D	523	ASP
3	D	830	ALA
3	D	1016	PRO
3	D	1240	THR
3	D	1261	GLU
3	D	1392	GLY
3	D	1439	SER
5	F	263	HIS
5	F	367	MET
5	F	392	VAL
5	F	419	ARG
1	K	207	PRO
1	L	172	SER
1	L	173	PRO
2	M	9	ILE
2	M	52	PHE

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Mol	Chain	Res	Type
2	M	76	PRO
2	M	164	PRO
2	M	337	GLY
2	M	368	THR
2	M	700	TYR
2	M	801	VAL
2	M	821	GLU
2	M	1018	GLN
2	M	1088	LEU
3	N	29	PRO
3	N	44	LEU
3	N	177	ALA
3	N	373	PRO
3	N	471	GLU
3	N	483	HIS
3	N	565	ILE
3	N	586	ARG
3	N	754	PHE
3	N	808	THR
3	N	1009	LYS
3	N	1285	GLU
3	N	1350	GLU
3	N	1408	ILE
3	N	1459	LEU
4	O	4	PRO
5	P	151	LEU
5	P	177	ALA
5	P	235	PHE
5	P	323	ASP
1	A	125	PRO
1	A	176	ARG
1	B	39	PRO
1	B	106	PRO
2	C	155	PRO
2	C	335	THR
2	C	490	GLU
2	C	835	VAL
2	C	861	LEU
2	C	1108	PRO
3	D	44	LEU
3	D	80	VAL
3	D	530	VAL

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Mol	Chain	Res	Type
3	D	693	GLU
3	D	1019	PRO
3	D	1044	LEU
3	D	1267	ARG
3	D	1350	GLU
4	E	4	PRO
5	F	119	ILE
5	F	372	ARG
1	K	70	GLY
1	K	228	PRO
1	L	188	GLN
1	L	202	ASP
2	M	60	GLY
2	M	241	LEU
2	M	325	ILE
2	M	739	GLU
2	M	986	PRO
3	N	568	ARG
3	N	695	ILE
3	N	984	THR
3	N	1048	PRO
3	N	1414	PRO
4	O	33	HIS
2	C	201	GLY
2	C	855	VAL
2	C	1114	GLY
3	D	668	PRO
3	D	885	ILE
3	D	992	ILE
3	D	1280	VAL
5	F	145	PRO
1	K	17	GLY
1	L	76	VAL
2	M	42	VAL
2	M	452	ILE
2	M	812	GLY
3	N	1050	GLY
3	N	1452	ILE
5	P	204	GLY
1	A	9	PRO
1	B	79	ILE
2	C	17	PRO

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Mol	Chain	Res	Type
3	D	1155	VAL
2	M	15	LEU
2	M	465	GLY
3	N	530	VAL
4	O	22	VAL
5	P	368	VAL
1	B	9	PRO
3	D	981	GLY
4	E	81	PRO
5	F	397	ILE
1	L	215	VAL
2	M	182	VAL
2	M	779	GLY
3	N	226	PRO
3	N	776	GLU
3	N	1277	ILE
1	B	75	VAL
2	C	263	ASP
2	C	444	PRO
2	C	812	GLY
3	D	108	VAL
3	D	433	GLY
3	D	1277	ILE
2	M	180	GLY
2	M	186	VAL
2	M	416	GLY
3	N	1481	VAL
2	C	769	PRO
3	D	395	VAL
3	D	1067	VAL
3	D	1414	PRO
1	K	205	VAL
1	L	162	ILE
3	N	26	VAL
3	N	654	LYS
3	N	1019	PRO

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	202/273 (74%)	174 (86%)	28 (14%)	3	17
1	B	202/273 (74%)	180 (89%)	22 (11%)	6	26
1	K	202/273 (74%)	171 (85%)	31 (15%)	3	14
1	L	202/273 (74%)	180 (89%)	22 (11%)	6	26
2	C	941/941 (100%)	807 (86%)	134 (14%)	3	16
2	M	941/941 (100%)	815 (87%)	126 (13%)	4	18
3	D	1170/1279 (92%)	962 (82%)	208 (18%)	2	10
3	N	1170/1279 (92%)	988 (84%)	182 (16%)	2	13
4	E	83/87 (95%)	70 (84%)	13 (16%)	2	13
4	O	83/87 (95%)	74 (89%)	9 (11%)	6	26
5	F	300/370 (81%)	264 (88%)	36 (12%)	5	22
5	P	300/370 (81%)	279 (93%)	21 (7%)	14	44
All	All	5796/6446 (90%)	4964 (86%)	832 (14%)	3	15

All (832) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	LYS
1	A	18	ARG
1	A	19	GLU
1	A	26	GLU
1	A	51	THR
1	A	62	LEU
1	A	73	GLU
1	A	76	VAL
1	A	84	GLU
1	A	88	ARG
1	A	92	PRO
1	A	95	GLN
1	A	96	THR
1	A	114	PHE
1	A	115	LEU
1	A	119	ASP
1	A	127	LEU
1	A	134	GLU
1	A	145	ASP

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Mol	Chain	Res	Type
1	A	146	ARG
1	A	148	VAL
1	A	183	ASP
1	A	185	ARG
1	A	196	THR
1	A	197	LEU
1	A	216	GLU
1	A	219	ARG
1	A	227	ASN
1	B	2	LEU
1	B	3	ASP
1	B	5	LYS
1	B	19	GLU
1	B	25	LEU
1	B	29	GLU
1	B	38	ASN
1	B	62	LEU
1	B	76	VAL
1	B	112	ARG
1	B	115	LEU
1	B	119	ASP
1	B	156	HIS
1	B	170	VAL
1	B	176	ARG
1	B	182	GLU
1	B	188	GLN
1	B	189	ARG
1	B	196	THR
1	B	208	LEU
1	B	213	GLN
1	B	225	PHE
2	C	5	ARG
2	C	9	ILE
2	C	21	ILE
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	52	PHE
2	C	71	TYR
2	C	81	ASP
2	C	88	LEU
2	C	95	TYR

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Mol	Chain	Res	Type
2	C	111	ASP
2	C	115	LEU
2	C	124	ASP
2	C	140	ILE
2	C	152	PRO
2	C	157	ARG
2	C	158	TYR
2	C	163	ILE
2	C	168	ARG
2	C	172	ILE
2	C	178	PRO
2	C	185	LYS
2	C	188	LYS
2	C	193	LEU
2	C	197	LEU
2	C	198	ARG
2	C	203	ASP
2	C	221	LEU
2	C	230	ARG
2	C	251	ASP
2	C	256	TYR
2	C	263	ASP
2	C	266	ARG
2	C	290	LEU
2	C	297	GLU
2	C	307	LEU
2	C	358	ARG
2	C	359	MET
2	C	383	ARG
2	C	407	LYS
2	C	413	LEU
2	C	418	LEU
2	C	420	ARG
2	C	421	GLU
2	C	425	PHE
2	C	426	ASP
2	C	427	VAL
2	C	433	THR
2	C	442	GLU
2	C	455	LEU
2	C	469	THR
2	C	472	ARG

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Mol	Chain	Res	Type
2	C	475	VAL
2	C	478	VAL
2	C	503	LEU
2	C	507	ARG
2	C	514	VAL
2	C	523	ILE
2	C	526	PRO
2	C	527	GLU
2	C	544	THR
2	C	551	GLU
2	C	562	SER
2	C	564	MET
2	C	578	VAL
2	C	579	VAL
2	C	589	ARG
2	C	595	LEU
2	C	600	ASP
2	C	607	ASP
2	C	609	ASN
2	C	617	ASP
2	C	620	LEU
2	C	633	GLN
2	C	637	LEU
2	C	640	ARG
2	C	650	ARG
2	C	671	ASN
2	C	672	VAL
2	C	674	VAL
2	C	679	PHE
2	C	685	GLU
2	C	689	VAL
2	C	699	PHE
2	C	701	THR
2	C	713	ARG
2	C	723	THR
2	C	725	ASP
2	C	727	PRO
2	C	737	LEU
2	C	754	ILE
2	C	762	LYS
2	C	764	GLU
2	C	766	GLU

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Mol	Chain	Res	Type
2	C	799	ILE
2	C	831	ARG
2	C	841	ASN
2	C	853	LEU
2	C	859	PRO
2	C	861	LEU
2	C	863	ASP
2	C	865	THR
2	C	881	ASN
2	C	888	THR
2	C	892	LEU
2	C	897	LEU
2	C	900	ARG
2	C	904	PRO
2	C	916	GLU
2	C	928	LYS
2	C	937	ASP
2	C	941	VAL
2	C	960	GLU
2	C	963	LEU
2	C	964	LYS
2	C	966	LEU
2	C	975	TYR
2	C	978	ARG
2	C	979	THR
2	C	988	VAL
2	C	1015	LEU
2	C	1016	ILE
2	C	1024	LYS
2	C	1036	GLU
2	C	1051	GLU
2	C	1052	MET
2	C	1054	THR
2	C	1076	VAL
2	C	1079	PRO
2	C	1081	VAL
2	C	1092	LEU
2	C	1103	ASP
2	C	1115	LEU
3	D	15	PRO
3	D	25	GLU
3	D	57	GLU

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Mol	Chain	Res	Type
3	D	66	GLN
3	D	73	CYS
3	D	81	THR
3	D	102	ILE
3	D	112	ILE
3	D	115	LEU
3	D	121	THR
3	D	122	GLU
3	D	123	LEU
3	D	138	LYS
3	D	141	ILE
3	D	142	LEU
3	D	143	ASN
3	D	145	VAL
3	D	149	LYS
3	D	152	LEU
3	D	153	LEU
3	D	155	ASP
3	D	171	LEU
3	D	179	VAL
3	D	184	GLU
3	D	185	VAL
3	D	199	LEU
3	D	200	ASP
3	D	208	PRO
3	D	211	VAL
3	D	216	VAL
3	D	217	LYS
3	D	218	LYS
3	D	223	LEU
3	D	224	ARG
3	D	225	LEU
3	D	233	LYS
3	D	236	TYR
3	D	237	LYS
3	D	245	LEU
3	D	250	LEU
3	D	365	ASP
3	D	366	LYS
3	D	367	ILE
3	D	374	GLU
3	D	377	VAL

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Mol	Chain	Res	Type
3	D	378	ILE
3	D	382	GLU
3	D	384	VAL
3	D	387	LEU
3	D	388	HIS
3	D	408	GLU
3	D	423	ASP
3	D	438	ASP
3	D	447	VAL
3	D	450	TYR
3	D	453	ASP
3	D	456	MET
3	D	486	ARG
3	D	498	VAL
3	D	513	ILE
3	D	528	VAL
3	D	530	VAL
3	D	535	PHE
3	D	539	ASP
3	D	549	ASN
3	D	554	LEU
3	D	565	ILE
3	D	571	LYS
3	D	579	ASP
3	D	583	ASP
3	D	591	VAL
3	D	592	THR
3	D	594	PRO
3	D	597	ASP
3	D	604	THR
3	D	605	ASP
3	D	606	ILE
3	D	611	GLN
3	D	616	GLN
3	D	619	LEU
3	D	621	LYS
3	D	625	TYR
3	D	635	PRO
3	D	637	LEU
3	D	638	LYS
3	D	641	GLN
3	D	642	CYS

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Mol	Chain	Res	Type
3	D	644	LEU
3	D	651	GLU
3	D	652	LEU
3	D	653	PHE
3	D	655	PRO
3	D	661	MET
3	D	662	GLU
3	D	676	MET
3	D	695	ILE
3	D	700	VAL
3	D	701	LEU
3	D	702	LEU
3	D	716	PHE
3	D	717	GLN
3	D	726	ILE
3	D	745	MET
3	D	749	VAL
3	D	764	LEU
3	D	776	GLU
3	D	778	LEU
3	D	781	PRO
3	D	792	ILE
3	D	794	GLN
3	D	808	THR
3	D	813	LEU
3	D	828	LYS
3	D	829	VAL
3	D	834	THR
3	D	836	VAL
3	D	848	GLU
3	D	858	VAL
3	D	859	ASP
3	D	861	GLN
3	D	863	VAL
3	D	867	ARG
3	D	868	TYR
3	D	875	THR
3	D	880	ILE
3	D	890	VAL
3	D	892	ASP
3	D	895	VAL
3	D	897	TRP

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Mol	Chain	Res	Type
3	D	899	LEU
3	D	902	LEU
3	D	911	LEU
3	D	912	LYS
3	D	920	LEU
3	D	940	THR
3	D	947	ILE
3	D	951	ILE
3	D	956	ILE
3	D	969	ARG
3	D	972	LEU
3	D	985	ASP
3	D	988	ARG
3	D	1001	GLU
3	D	1020	LEU
3	D	1039	CYS
3	D	1042	ARG
3	D	1044	LEU
3	D	1046	GLN
3	D	1052	THR
3	D	1055	VAL
3	D	1062	ARG
3	D	1068	LEU
3	D	1074	SER
3	D	1093	TYR
3	D	1109	GLU
3	D	1130	ARG
3	D	1134	LEU
3	D	1136	LYS
3	D	1151	ARG
3	D	1152	GLU
3	D	1161	GLU
3	D	1164	ARG
3	D	1167	SER
3	D	1172	HIS
3	D	1173	LEU
3	D	1182	GLU
3	D	1189	ARG
3	D	1191	PRO
3	D	1195	GLN
3	D	1197	ARG
3	D	1204	CYS

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Mol	Chain	Res	Type
3	D	1207	TYR
3	D	1213	ARG
3	D	1223	ILE
3	D	1231	GLU
3	D	1234	THR
3	D	1251	ASP
3	D	1254	GLN
3	D	1264	GLU
3	D	1271	LYS
3	D	1274	ILE
3	D	1288	GLU
3	D	1304	LYS
3	D	1307	LYS
3	D	1311	LEU
3	D	1314	LYS
3	D	1315	ASP
3	D	1346	ARG
3	D	1350	GLU
3	D	1353	GLN
3	D	1359	GLN
3	D	1363	LEU
3	D	1376	MET
3	D	1389	LEU
3	D	1396	GLU
3	D	1403	LEU
3	D	1410	GLU
3	D	1425	THR
3	D	1426	LYS
3	D	1434	TRP
3	D	1435	LEU
3	D	1441	GLN
3	D	1442	ASN
3	D	1447	LEU
3	D	1455	LYS
3	D	1483	PHE
3	D	1487	VAL
3	D	1492	LEU
4	E	10	PHE
4	E	13	VAL
4	E	23	VAL
4	E	28	GLN
4	E	35	PHE

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Mol	Chain	Res	Type
4	E	42	PRO
4	E	46	PRO
4	E	59	ASN
4	E	61	GLU
4	E	77	GLU
4	E	78	ASN
4	E	81	PRO
4	E	82	GLU
5	F	76	SER
5	F	97	GLU
5	F	124	PRO
5	F	125	ASP
5	F	142	ARG
5	F	148	LYS
5	F	149	GLU
5	F	152	ASP
5	F	169	GLU
5	F	172	ARG
5	F	174	LEU
5	F	187	LEU
5	F	192	LEU
5	F	220	LEU
5	F	229	TYR
5	F	234	LYS
5	F	245	GLN
5	F	249	ARG
5	F	282	LEU
5	F	295	MET
5	F	318	GLU
5	F	321	ILE
5	F	328	PHE
5	F	335	ASP
5	F	336	GLU
5	F	341	PRO
5	F	347	GLN
5	F	349	LEU
5	F	363	GLU
5	F	368	VAL
5	F	377	ASP
5	F	385	GLU
5	F	399	GLN
5	F	405	LEU

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Mol	Chain	Res	Type
5	F	410	TYR
5	F	419	ARG
1	K	19	GLU
1	K	26	GLU
1	K	38	ASN
1	K	47	SER
1	K	54	THR
1	K	73	GLU
1	K	79	ILE
1	K	85	LEU
1	K	88	ARG
1	K	95	GLN
1	K	96	THR
1	K	115	LEU
1	K	138	LEU
1	K	142	VAL
1	K	146	ARG
1	K	148	VAL
1	K	159	LYS
1	K	161	ARG
1	K	163	ASN
1	K	165	ILE
1	K	185	ARG
1	K	188	GLN
1	K	189	ARG
1	K	193	ASP
1	K	194	LYS
1	K	196	THR
1	K	205	VAL
1	K	206	THR
1	K	219	ARG
1	K	222	LEU
1	K	229	GLN
1	L	1	MET
1	L	2	LEU
1	L	5	LYS
1	L	9	PRO
1	L	12	THR
1	L	16	GLN
1	L	19	GLU
1	L	38	ASN
1	L	51	THR

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Mol	Chain	Res	Type
1	L	62	LEU
1	L	77	GLU
1	L	95	GLN
1	L	115	LEU
1	L	126	ASP
1	L	140	MET
1	L	154	GLU
1	L	175	ARG
1	L	195	LEU
1	L	196	THR
1	L	201	THR
1	L	206	THR
1	L	213	GLN
2	M	6	PHE
2	M	9	ILE
2	M	15	LEU
2	M	20	GLU
2	M	21	ILE
2	M	27	ARG
2	M	52	PHE
2	M	57	GLU
2	M	64	LEU
2	M	65	VAL
2	M	77	PRO
2	M	82	GLU
2	M	104	ASP
2	M	107	LEU
2	M	115	LEU
2	M	144	PRO
2	M	154	ARG
2	M	158	TYR
2	M	168	ARG
2	M	170	PRO
2	M	172	ILE
2	M	178	PRO
2	M	181	VAL
2	M	184	MET
2	M	186	VAL
2	M	190	LYS
2	M	198	ARG
2	M	203	ASP
2	M	209	ARG

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Mol	Chain	Res	Type
2	M	221	LEU
2	M	230	ARG
2	M	242	LEU
2	M	249	LYS
2	M	266	ARG
2	M	275	TYR
2	M	288	ARG
2	M	290	LEU
2	M	301	GLU
2	M	321	GLU
2	M	325	ILE
2	M	328	LEU
2	M	358	ARG
2	M	383	ARG
2	M	394	PHE
2	M	420	ARG
2	M	425	PHE
2	M	426	ASP
2	M	433	THR
2	M	441	VAL
2	M	452	ILE
2	M	455	LEU
2	M	486	MET
2	M	503	LEU
2	M	511	GLU
2	M	520	GLU
2	M	523	ILE
2	M	534	VAL
2	M	537	LYS
2	M	548	PRO
2	M	554	ASP
2	M	559	LEU
2	M	564	MET
2	M	571	LEU
2	M	577	PRO
2	M	579	VAL
2	M	584	GLU
2	M	585	GLU
2	M	586	ARG
2	M	614	ARG
2	M	627	ARG
2	M	630	ARG

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Mol	Chain	Res	Type
2	M	633	GLN
2	M	650	ARG
2	M	670	GLN
2	M	672	VAL
2	M	673	LEU
2	M	677	MET
2	M	689	VAL
2	M	691	SER
2	M	698	ASP
2	M	722	ILE
2	M	727	PRO
2	M	738	ASP
2	M	745	ILE
2	M	762	LYS
2	M	766	GLU
2	M	768	THR
2	M	771	GLU
2	M	799	ILE
2	M	807	ARG
2	M	821	GLU
2	M	837	ASP
2	M	839	LEU
2	M	853	LEU
2	M	859	PRO
2	M	868	ASP
2	M	881	ASN
2	M	886	LEU
2	M	897	LEU
2	M	903	SER
2	M	911	GLU
2	M	917	LEU
2	M	925	TYR
2	M	934	PHE
2	M	939	ARG
2	M	950	LEU
2	M	958	THR
2	M	959	PRO
2	M	962	GLN
2	M	964	LYS
2	M	971	LYS
2	M	974	LEU
2	M	979	THR

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Mol	Chain	Res	Type
2	M	984	GLU
2	M	988	VAL
2	M	1005	MET
2	M	1015	LEU
2	M	1016	ILE
2	M	1020	PRO
2	M	1052	MET
2	M	1054	THR
2	M	1055	LEU
2	M	1064	ASN
2	M	1095	LEU
2	M	1104	GLU
2	M	1115	LEU
3	N	3	LYS
3	N	30	GLU
3	N	36	THR
3	N	63	TYR
3	N	68	PHE
3	N	73	CYS
3	N	75	ARG
3	N	76	CYS
3	N	84	ILE
3	N	92	HIS
3	N	104	PHE
3	N	121	THR
3	N	123	LEU
3	N	126	VAL
3	N	128	TYR
3	N	141	ILE
3	N	142	LEU
3	N	143	ASN
3	N	147	VAL
3	N	149	LYS
3	N	153	LEU
3	N	154	THR
3	N	156	GLU
3	N	171	LEU
3	N	199	LEU
3	N	205	TYR
3	N	208	PRO
3	N	216	VAL
3	N	217	LYS

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Mol	Chain	Res	Type
3	N	218	LYS
3	N	225	LEU
3	N	227	LEU
3	N	230	TRP
3	N	232	GLU
3	N	241	ILE
3	N	249	TYR
3	N	367	ILE
3	N	376	GLU
3	N	378	ILE
3	N	385	VAL
3	N	387	LEU
3	N	389	GLU
3	N	393	ILE
3	N	394	LEU
3	N	406	ASP
3	N	456	MET
3	N	483	HIS
3	N	498	VAL
3	N	503	LEU
3	N	505	SER
3	N	513	ILE
3	N	523	ASP
3	N	525	ARG
3	N	537	THR
3	N	549	ASN
3	N	554	LEU
3	N	571	LYS
3	N	576	GLU
3	N	578	VAL
3	N	594	PRO
3	N	600	LEU
3	N	601	ARG
3	N	629	SER
3	N	633	VAL
3	N	642	CYS
3	N	648	MET
3	N	650	LEU
3	N	651	GLU
3	N	655	PRO
3	N	675	ARG
3	N	676	MET

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Mol	Chain	Res	Type
3	N	681	ARG
3	N	689	ASP
3	N	693	GLU
3	N	702	LEU
3	N	703	ASN
3	N	704	ARG
3	N	710	ARG
3	N	717	GLN
3	N	732	VAL
3	N	736	PHE
3	N	749	VAL
3	N	754	PHE
3	N	760	ARG
3	N	761	ILE
3	N	769	LEU
3	N	784	ASP
3	N	785	ILE
3	N	787	LEU
3	N	794	GLN
3	N	799	LYS
3	N	820	GLU
3	N	828	LYS
3	N	829	VAL
3	N	832	ARG
3	N	833	GLU
3	N	836	VAL
3	N	838	ARG
3	N	840	LYS
3	N	848	GLU
3	N	862	ASP
3	N	863	VAL
3	N	879	ARG
3	N	893	GLU
3	N	897	TRP
3	N	899	LEU
3	N	903	ASP
3	N	912	LYS
3	N	914	LEU
3	N	927	THR
3	N	935	LYS
3	N	943	THR
3	N	947	ILE

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Mol	Chain	Res	Type
3	N	948	THR
3	N	951	ILE
3	N	968	ASP
3	N	986	ARG
3	N	987	GLU
3	N	997	THR
3	N	1001	GLU
3	N	1003	VAL
3	N	1012	GLU
3	N	1041	LEU
3	N	1045	MET
3	N	1046	GLN
3	N	1055	VAL
3	N	1058	ARG
3	N	1066	THR
3	N	1068	LEU
3	N	1072	ILE
3	N	1078	ARG
3	N	1109	GLU
3	N	1116	ASN
3	N	1117	TYR
3	N	1122	LEU
3	N	1127	GLU
3	N	1135	ARG
3	N	1139	ASP
3	N	1148	VAL
3	N	1152	GLU
3	N	1160	LEU
3	N	1166	LEU
3	N	1168	MET
3	N	1182	GLU
3	N	1183	ILE
3	N	1189	ARG
3	N	1190	SER
3	N	1201	CYS
3	N	1207	TYR
3	N	1208	ASP
3	N	1211	MET
3	N	1219	GLU
3	N	1223	ILE
3	N	1231	GLU
3	N	1234	THR

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Mol	Chain	Res	Type
3	N	1241	PHE
3	N	1252	ILE
3	N	1274	ILE
3	N	1280	VAL
3	N	1282	ARG
3	N	1290	LEU
3	N	1311	LEU
3	N	1314	LYS
3	N	1315	ASP
3	N	1327	ARG
3	N	1346	ARG
3	N	1379	VAL
3	N	1389	LEU
3	N	1390	LEU
3	N	1396	GLU
3	N	1410	GLU
3	N	1412	LYS
3	N	1419	PRO
3	N	1424	VAL
3	N	1426	LYS
3	N	1432	LYS
3	N	1442	ASN
3	N	1466	VAL
3	N	1472	ILE
3	N	1478	SER
3	N	1485	GLN
3	N	1492	LEU
4	O	32	ARG
4	O	42	PRO
4	O	44	GLU
4	O	51	LEU
4	O	59	ASN
4	O	70	THR
4	O	79	LEU
4	O	81	PRO
4	O	83	ASP
5	P	86	HIS
5	P	91	VAL
5	P	128	ARG
5	P	134	LYS
5	P	152	ASP
5	P	169	GLU

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Mol	Chain	Res	Type
5	P	245	GLN
5	P	285	GLU
5	P	286	PRO
5	P	318	GLU
5	P	324	GLU
5	P	325	LYS
5	P	336	GLU
5	P	337	HIS
5	P	341	PRO
5	P	365	GLU
5	P	394	ARG
5	P	398	ARG
5	P	408	LEU
5	P	410	TYR
5	P	421	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (183) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	ASN
1	A	63	HIS
1	A	95	GLN
1	A	124	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	212	ASN
1	A	213	GLN
1	A	227	ASN
1	B	38	ASN
1	B	63	HIS
1	B	95	GLN
1	B	124	ASN
1	B	156	HIS
1	B	163	ASN
1	B	212	ASN
1	B	221	HIS
1	B	229	GLN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	45	GLN

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Mol	Chain	Res	Type
2	C	91	GLN
2	C	320	HIS
2	C	330	ASN
2	C	343	GLN
2	C	406	HIS
2	C	431	HIS
2	C	538	GLN
2	C	563	ASN
2	C	632	ASN
2	C	633	GLN
2	C	663	ASN
2	C	670	GLN
2	C	671	ASN
2	C	704	HIS
2	C	829	GLN
2	C	834	GLN
2	C	841	ASN
2	C	860	HIS
2	C	881	ASN
2	C	889	HIS
2	C	899	GLN
2	C	969	GLN
2	C	1030	GLN
2	C	1100	GLN
2	C	1107	ASN
3	D	151	GLN
3	D	189	GLN
3	D	442	ASN
3	D	462	GLN
3	D	463	GLN
3	D	507	ASN
3	D	560	GLN
3	D	569	ASN
3	D	575	GLN
3	D	696	HIS
3	D	703	ASN
3	D	714	GLN
3	D	717	GLN
3	D	727	GLN
3	D	756	GLN
3	D	794	GLN
3	D	855	HIS

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Mol	Chain	Res	Type
3	D	994	GLN
3	D	1046	GLN
3	D	1103	HIS
3	D	1323	GLN
3	D	1353	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1404	ASN
3	D	1441	GLN
3	D	1485	GLN
3	D	1489	GLN
4	E	28	GLN
5	F	83	GLN
5	F	90	GLN
5	F	161	GLN
5	F	218	GLN
5	F	277	GLN
5	F	312	GLN
1	K	63	HIS
1	K	95	GLN
1	K	124	ASN
1	K	128	HIS
1	K	156	HIS
1	K	180	GLN
1	K	188	GLN
1	K	212	ASN
1	K	229	GLN
1	L	95	GLN
1	L	124	ASN
1	L	163	ASN
1	L	212	ASN
1	L	221	HIS
2	M	31	GLN
2	M	80	GLN
2	M	91	GLN
2	M	117	HIS
2	M	130	ASN
2	M	139	GLN
2	M	320	HIS
2	M	343	GLN
2	M	393	GLN
2	M	431	HIS

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Mol	Chain	Res	Type
2	M	506	ASN
2	M	538	GLN
2	M	543	ASN
2	M	552	HIS
2	M	563	ASN
2	M	575	GLN
2	M	609	ASN
2	M	639	GLN
2	M	663	ASN
2	M	670	GLN
2	M	671	ASN
2	M	704	HIS
2	M	829	GLN
2	M	834	GLN
2	M	841	ASN
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	999	HIS
2	M	1018	GLN
2	M	1019	GLN
2	M	1026	GLN
2	M	1050	GLN
2	M	1064	ASN
2	M	1100	GLN
3	N	101	HIS
3	N	125	GLN
3	N	151	GLN
3	N	166	GLN
3	N	529	GLN
3	N	549	ASN
3	N	551	ASN
3	N	575	GLN
3	N	636	GLN
3	N	641	GLN
3	N	669	ASN
3	N	696	HIS
3	N	703	ASN

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Mol	Chain	Res	Type
3	N	714	GLN
3	N	724	GLN
3	N	727	GLN
3	N	794	GLN
3	N	861	GLN
3	N	1031	ASN
3	N	1033	GLN
3	N	1034	GLN
3	N	1046	GLN
3	N	1075	HIS
3	N	1116	ASN
3	N	1184	GLN
3	N	1195	GLN
3	N	1202	GLN
3	N	1323	GLN
3	N	1334	GLN
3	N	1359	GLN
3	N	1441	GLN
3	N	1485	GLN
3	N	1489	GLN
4	O	28	GLN
4	O	29	GLN
4	O	59	ASN
4	O	78	ASN
4	O	86	GLN
5	P	86	HIS
5	P	214	GLN
5	P	217	ASN
5	P	218	GLN
5	P	245	GLN
5	P	269	ASN
5	P	280	GLN
5	P	347	GLN
5	P	402	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 6 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
6	STD	M	1120	-	41,47,47	1.76	10 (24%)	50,73,73	2.25	13 (26%)
6	STD	D	1525	-	41,47,47	2.04	12 (29%)	50,73,73	2.31	10 (20%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	STD	M	1120	-	-	12/31/101/101	0/6/5/5
6	STD	D	1525	-	-	6/31/101/101	0/6/5/5

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	1525	STD	C22-N2	4.97	1.40	1.33
6	D	1525	STD	O5-C19	4.56	1.47	1.43
6	D	1525	STD	O8-C19	4.24	1.46	1.43
6	D	1525	STD	C16-C13	3.87	1.61	1.53
6	M	1120	STD	O4-C4	3.52	1.47	1.42
6	M	1120	STD	C22-N2	3.40	1.37	1.33
6	M	1120	STD	O8-C19	3.32	1.46	1.43
6	D	1525	STD	C15-C26	3.28	1.57	1.52
6	M	1120	STD	C16-C13	3.18	1.60	1.53
6	M	1120	STD	O5-C19	2.86	1.45	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	1525	STD	C17-C30	2.64	1.54	1.49
6	M	1120	STD	C17-C30	2.57	1.53	1.49
6	D	1525	STD	O1-C3	2.51	1.26	1.22
6	D	1525	STD	C4-N1	-2.38	1.42	1.45
6	M	1120	STD	C15-C26	2.37	1.55	1.52
6	D	1525	STD	C28-C32	2.30	1.53	1.50
6	M	1120	STD	C20-N1	2.26	1.50	1.47
6	M	1120	STD	O6-C22	2.19	1.27	1.23
6	M	1120	STD	C18-C16	2.19	1.57	1.53
6	D	1525	STD	O4-C4	2.18	1.45	1.42
6	D	1525	STD	O8-C17	2.17	1.47	1.44
6	D	1525	STD	C27-C25	2.12	1.56	1.51

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	D	1525	STD	C3-C20-N1	-10.56	95.56	103.11
6	M	1120	STD	C3-C20-N1	-6.95	98.14	103.11
6	M	1120	STD	O4-C4-N1	6.74	113.28	105.83
6	D	1525	STD	C29-C19-C28	-5.71	108.73	113.27
6	M	1120	STD	O8-C19-C29	5.27	109.86	105.63
6	M	1120	STD	C29-C19-C28	-5.24	109.10	113.27
6	D	1525	STD	C19-O5-C13	4.76	117.72	112.81
6	D	1525	STD	C2-C1-C3	-4.16	103.84	107.81
6	D	1525	STD	O8-C19-C29	4.03	108.87	105.63
6	M	1120	STD	C19-O5-C13	3.65	116.58	112.81
6	M	1120	STD	C2-C1-C3	-3.44	104.53	107.81
6	M	1120	STD	O8-C17-C30	-2.90	109.04	111.68
6	D	1525	STD	C21-C22-N2	-2.67	112.40	116.27
6	D	1525	STD	C31-O9-C28	2.61	64.73	61.14
6	D	1525	STD	O6-C22-C21	2.61	125.65	121.11
6	D	1525	STD	O8-C17-C30	-2.59	109.33	111.68
6	M	1120	STD	O9-C31-C28	-2.48	55.88	58.94
6	M	1120	STD	O1-C3-C1	-2.46	122.67	128.42
6	M	1120	STD	C6-C5-C1	2.45	127.01	124.39
6	M	1120	STD	C20-N1-C2	-2.43	110.73	113.06
6	M	1120	STD	C6-C7-C8	-2.40	122.68	126.23
6	M	1120	STD	C31-O9-C28	2.29	64.28	61.14
6	D	1525	STD	O9-C31-C28	-2.11	56.34	58.94

There are no chirality outliers.

All (18) torsion outliers are listed below:

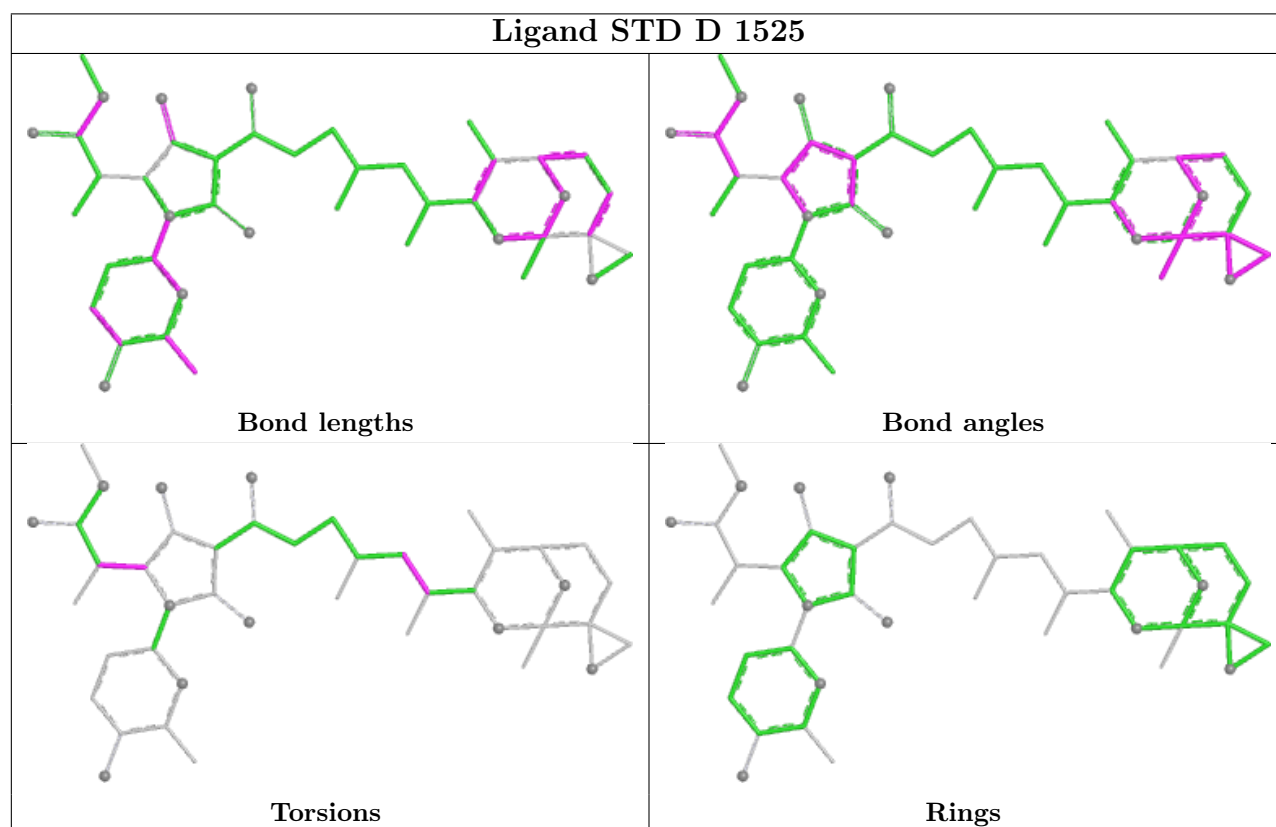
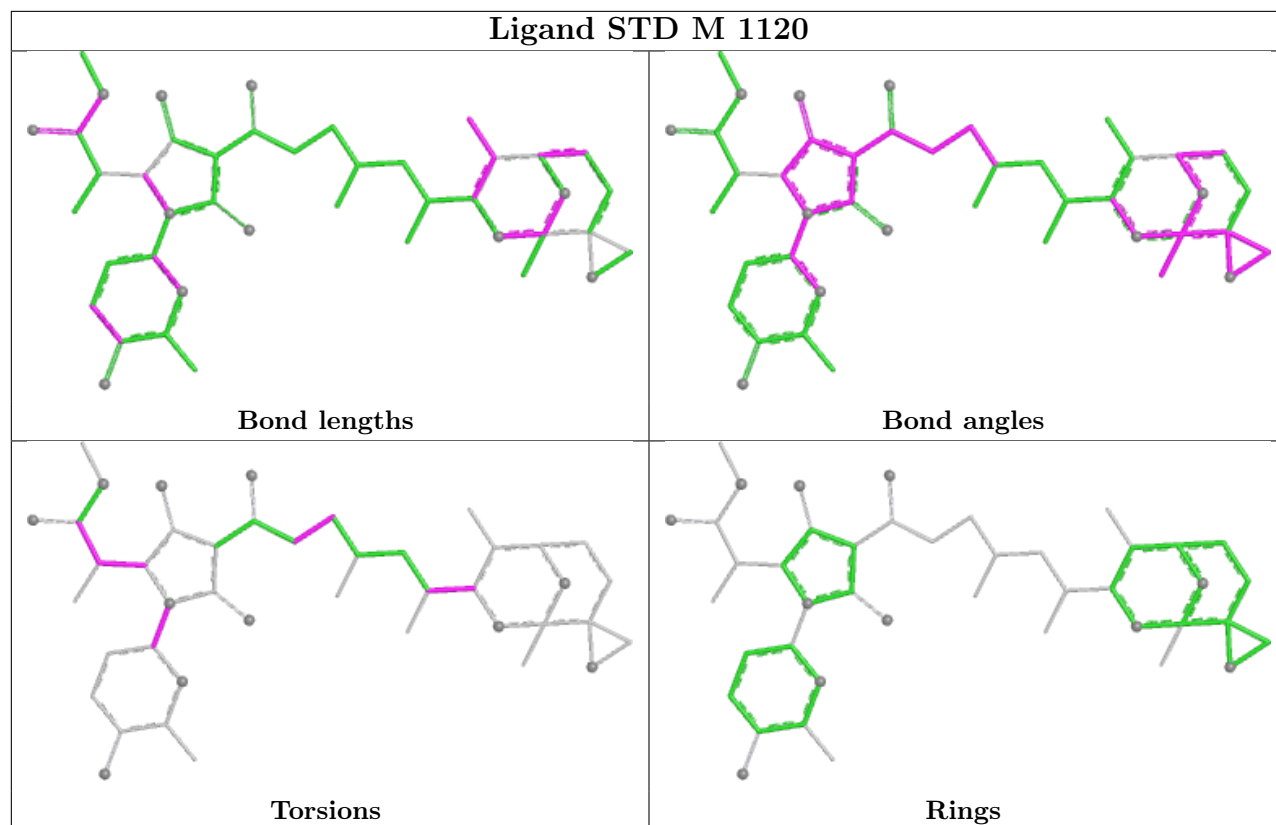
Mol	Chain	Res	Type	Atoms
6	D	1525	STD	N1-C20-C21-C22
6	D	1525	STD	N1-C20-C21-C23
6	D	1525	STD	C3-C20-C21-C22
6	D	1525	STD	C3-C20-C21-C23
6	M	1120	STD	C9-C10-C13-C16
6	M	1120	STD	C9-C10-C13-O5
6	M	1120	STD	C14-C10-C13-C16
6	M	1120	STD	C14-C10-C13-O5
6	M	1120	STD	N1-C20-C21-C22
6	M	1120	STD	N1-C20-C21-C23
6	M	1120	STD	C3-C20-C21-C22
6	M	1120	STD	C3-C20-C21-C23
6	M	1120	STD	C23-C21-C22-N2
6	M	1120	STD	C23-C21-C22-O6
6	M	1120	STD	C5-C6-C7-C8
6	D	1525	STD	C14-C10-C9-C8
6	D	1525	STD	C13-C10-C9-C8
6	M	1120	STD	O4-C4-N1-C20

There are no ring outliers.

2 monomers are involved in 19 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	M	1120	STD	9	0
6	D	1525	STD	10	0

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



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

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%)	-1.49	0 100 100	32, 58, 89, 110	0
1	B	229/315 (72%)	-1.37	0 100 100	45, 96, 120, 124	0
1	K	229/315 (72%)	-1.51	0 100 100	24, 57, 82, 111	0
1	L	229/315 (72%)	-1.47	0 100 100	43, 78, 96, 117	0
2	C	1119/1119 (100%)	-1.40	0 100 100	21, 67, 123, 137	0
2	M	1119/1119 (100%)	-1.40	0 100 100	21, 69, 120, 130	0
3	D	1392/1524 (91%)	-1.42	2 (0%) 92 86	20, 64, 107, 125	0
3	N	1392/1524 (91%)	-1.39	4 (0%) 90 79	20, 64, 125, 140	0
4	E	95/99 (95%)	-1.40	0 100 100	52, 82, 99, 102	0
4	O	95/99 (95%)	-1.30	0 100 100	46, 86, 114, 119	0
5	F	345/423 (81%)	-1.45	0 100 100	53, 77, 97, 104	0
5	P	345/423 (81%)	-1.41	0 100 100	47, 81, 97, 108	0
All	All	6818/7590 (89%)	-1.41	6 (0%) 92 86	20, 69, 118, 140	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	N	406	ASP	6.3
3	D	801	GLY	5.3
3	D	802	ALA	3.9
3	N	224	ARG	3.1
3	N	1251	ASP	2.7
3	N	387	LEU	2.2

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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](#)

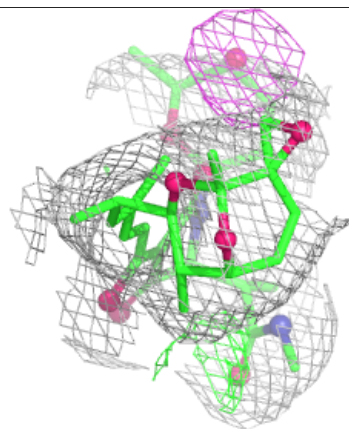
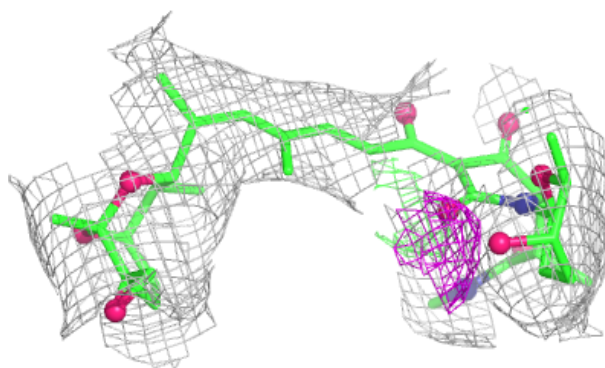
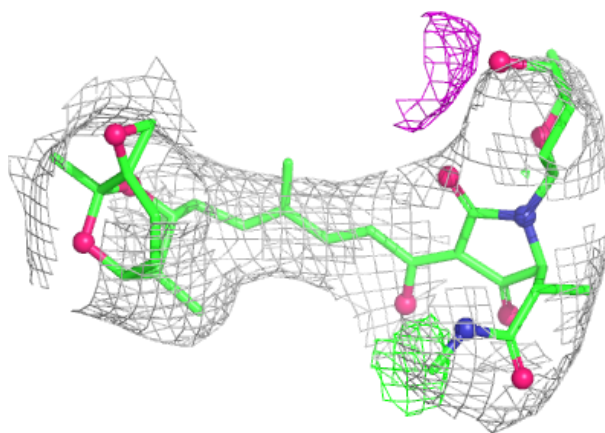
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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
6	STD	D	1525	43/43	0.99	0.04	39,59,62,63	0
6	STD	M	1120	43/43	0.99	0.04	39,51,53,56	0
8	MG	D	9901	1/1	0.99	0.04	20,20,20,20	0
8	MG	N	9902	1/1	0.99	0.02	30,30,30,30	0
7	ZN	N	9003	1/1	1.00	0.01	55,55,55,55	0
7	ZN	N	9004	1/1	1.00	0.02	56,56,56,56	0
7	ZN	D	9001	1/1	1.00	0.01	56,56,56,56	0
7	ZN	D	9002	1/1	1.00	0.01	47,47,47,47	0

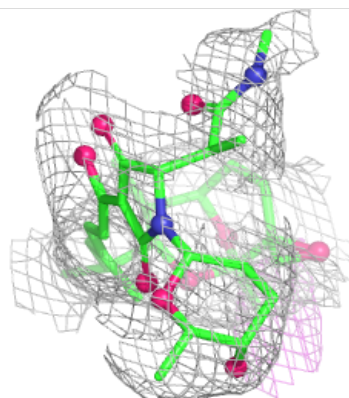
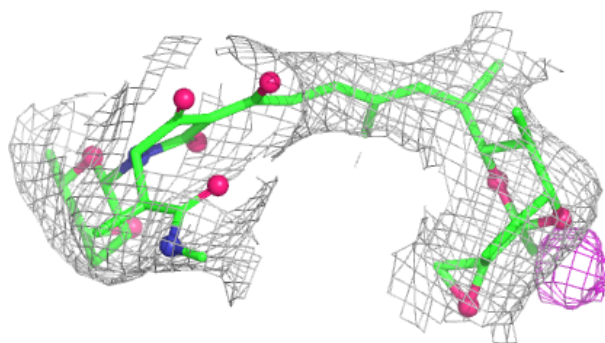
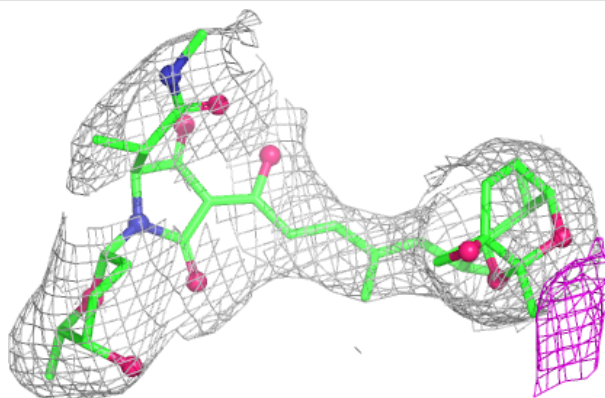
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around STD D 1525:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around STD M 1120:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.