



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 09:23 PM GMT

PDB ID : 4V40
Title : BETA-GALACTOSIDASE
Authors : Jacobson, R.H.; Zhang, X.; Dubose, R.F.; Matthews, B.W.
Deposited on : 1994-07-18
Resolution : 2.50 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

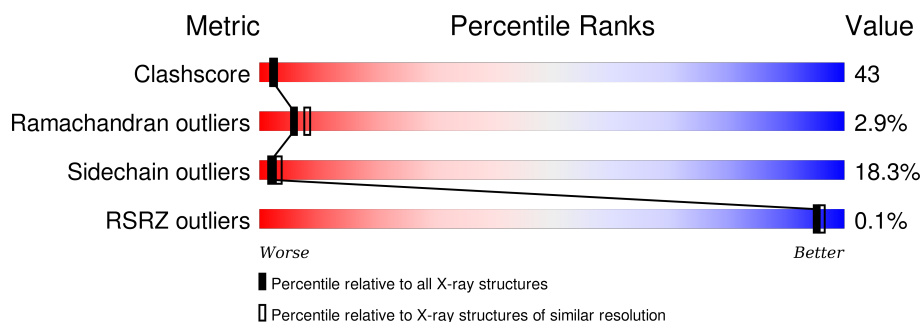
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION





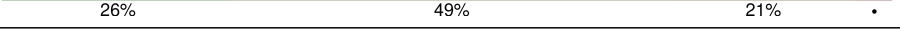
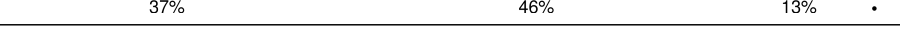
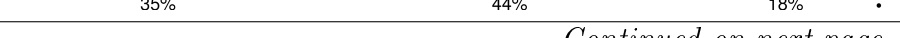
The reported resolution of this entry is 2.50 Å.

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.



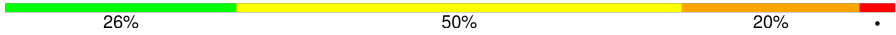
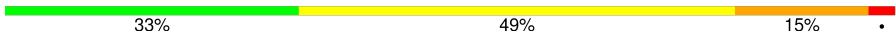



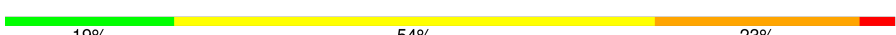
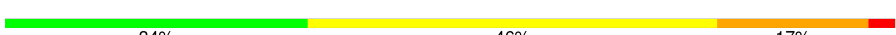
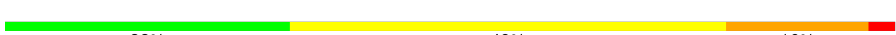

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	102246	4242 (2.50-2.50)
Ramachandran outliers	100387	4156 (2.50-2.50)
Sidechain outliers	100360	4158 (2.50-2.50)
RSRZ outliers	91569	3562 (2.50-2.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	1023	
1	B	1023	
1	C	1023	
1	D	1023	
1	E	1023	
1	F	1023	
1	G	1023	

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Mol	Chain	Length	Quality of chain
1	H	1023	
1	I	1023	
1	J	1023	
1	K	1023	
1	L	1023	
1	M	1023	
1	N	1023	
1	O	1023	
1	P	1023	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	MG	A	1101	-	-	-	X
2	MG	B	1101	-	-	-	X
2	MG	C	1101	-	-	-	X
2	MG	D	1101	-	-	-	X
2	MG	D	1102	-	-	-	X
2	MG	E	1101	-	-	-	X
2	MG	F	1101	-	-	-	X
2	MG	G	1101	-	-	-	X
2	MG	H	1101	-	-	-	X
2	MG	I	1101	-	-	-	X
2	MG	J	1101	-	-	-	X
2	MG	L	1101	-	-	-	X
2	MG	N	1101	-	-	-	X
2	MG	O	1101	-	-	-	X

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 132654 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 BETA-GALACTOSIDASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	B	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	C	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	D	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	E	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	F	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	G	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	H	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	I	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	J	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	K	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	L	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	M	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	N	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	O	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	P	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	P	2	Total 2	Mg 2	0	0
2	G	2	Total 2	Mg 2	0	0
2	J	2	Total 2	Mg 2	0	0
2	D	2	Total 2	Mg 2	0	0
2	K	2	Total 2	Mg 2	0	0
2	E	2	Total 2	Mg 2	0	0
2	H	2	Total 2	Mg 2	0	0
2	B	2	Total 2	Mg 2	0	0
2	I	2	Total 2	Mg 2	0	0
2	C	2	Total 2	Mg 2	0	0
2	A	2	Total 2	Mg 2	0	0
2	N	2	Total 2	Mg 2	0	0
2	O	2	Total 2	Mg 2	0	0
2	L	2	Total 2	Mg 2	0	0
2	F	2	Total 2	Mg 2	0	0
2	M	1	Total 1	Mg 1	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	88	Total 88	O 88	0	0
3	B	96	Total 96	O 96	0	0
3	C	91	Total 91	O 91	0	0

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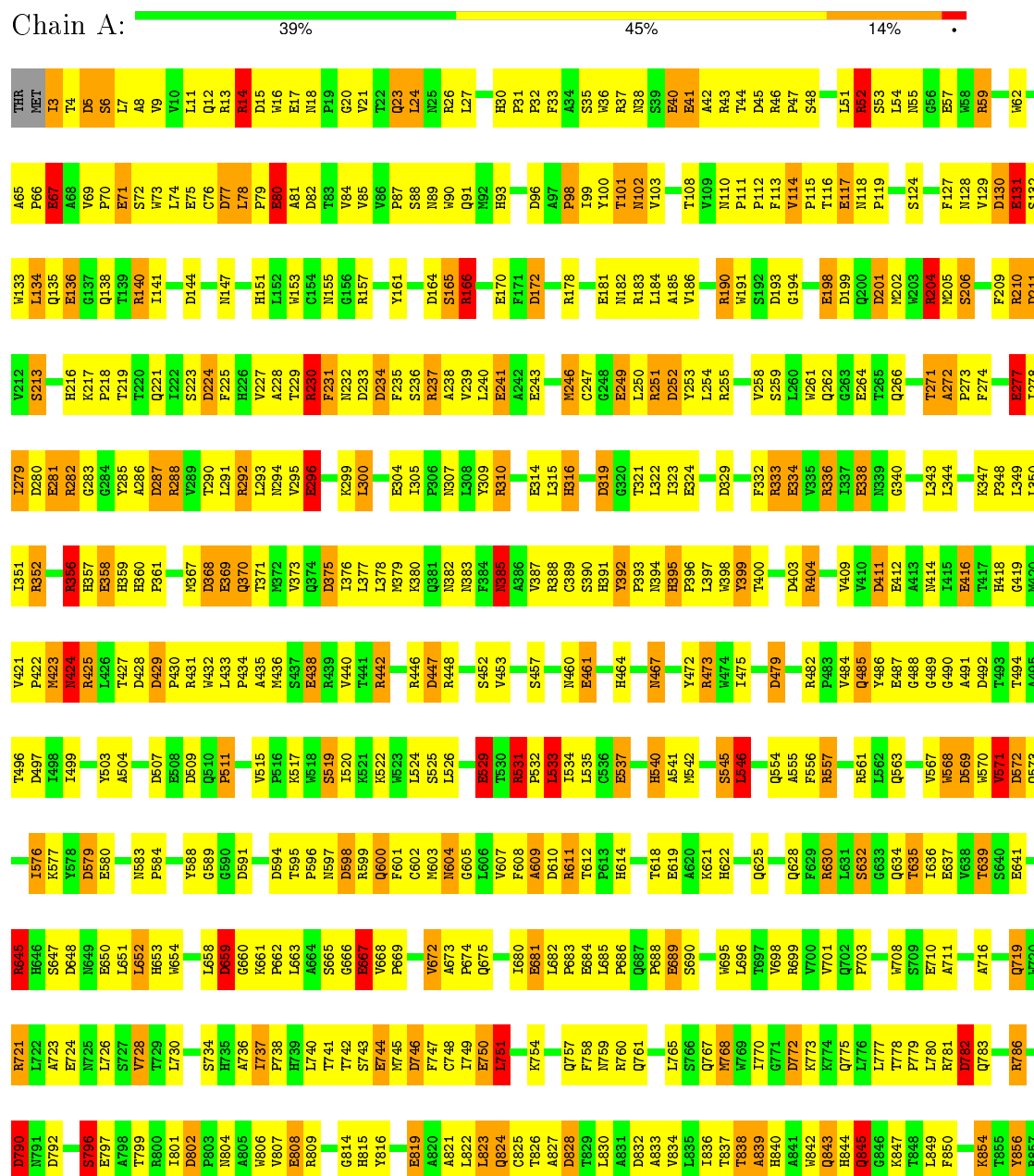
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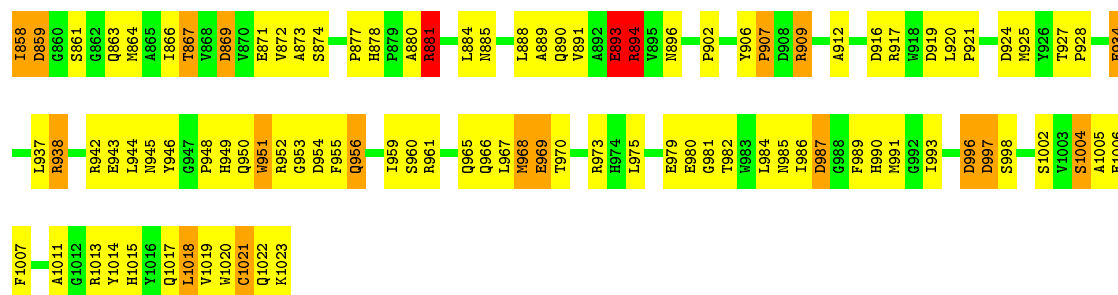
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	D	97	Total 97	O 97	0	0
3	E	94	Total 94	O 94	0	0
3	F	91	Total 91	O 91	0	0
3	G	95	Total 95	O 95	0	0
3	H	92	Total 92	O 92	0	0
3	I	90	Total 90	O 90	0	0
3	J	97	Total 97	O 97	0	0
3	K	87	Total 87	O 87	0	0
3	L	84	Total 84	O 84	0	0
3	M	79	Total 79	O 79	0	0
3	N	94	Total 94	O 94	0	0
3	O	95	Total 95	O 95	0	0
3	P	85	Total 85	O 85	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

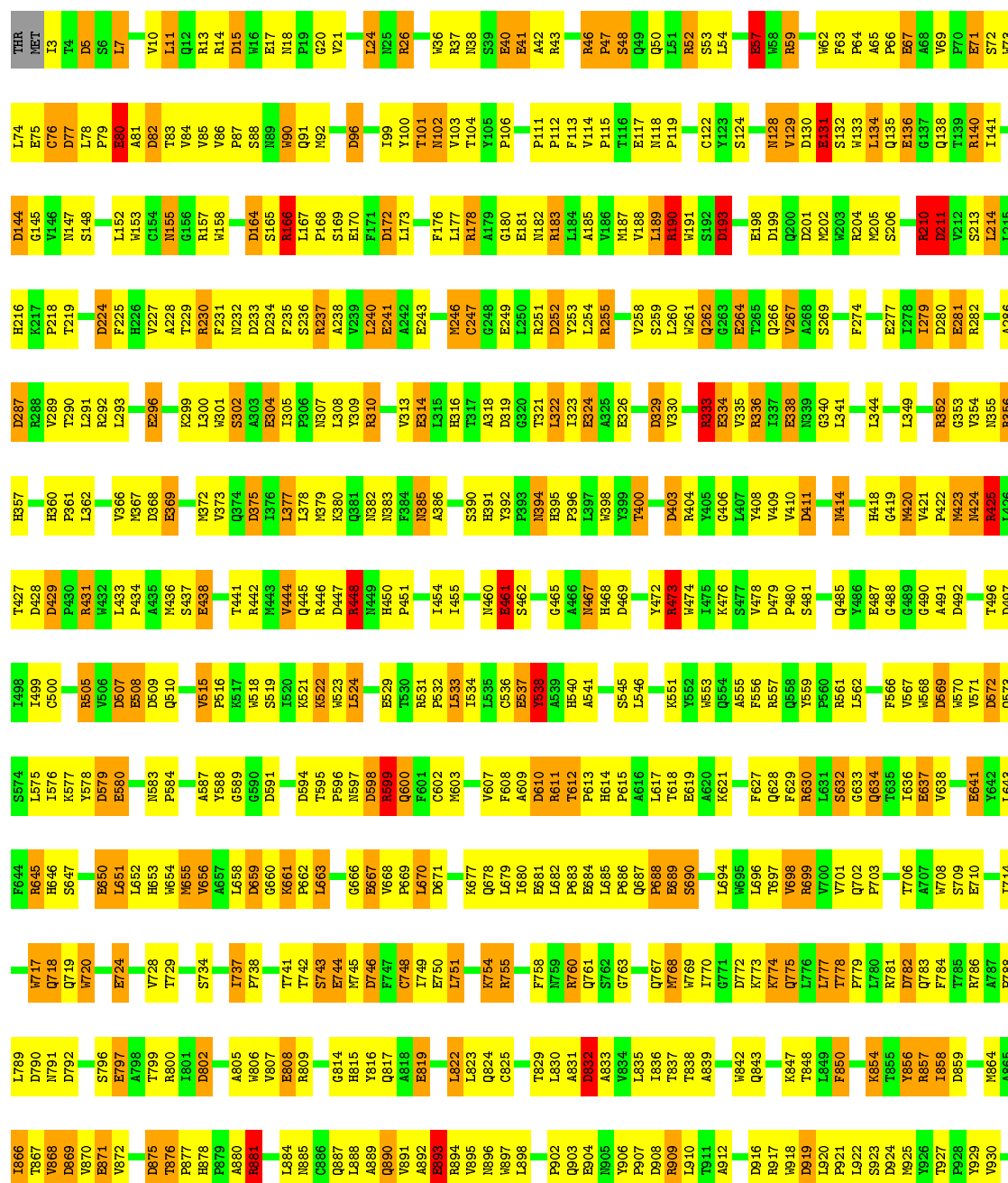
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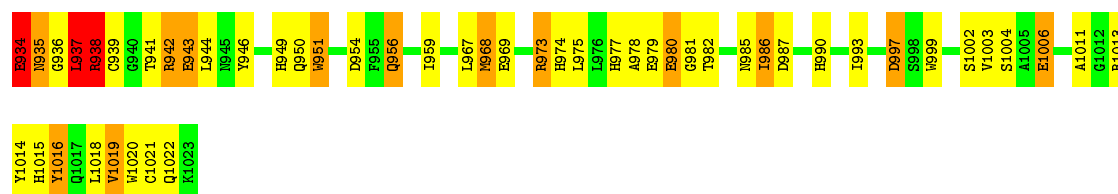




Molecule 1: BETA-GALACTOSIDASE

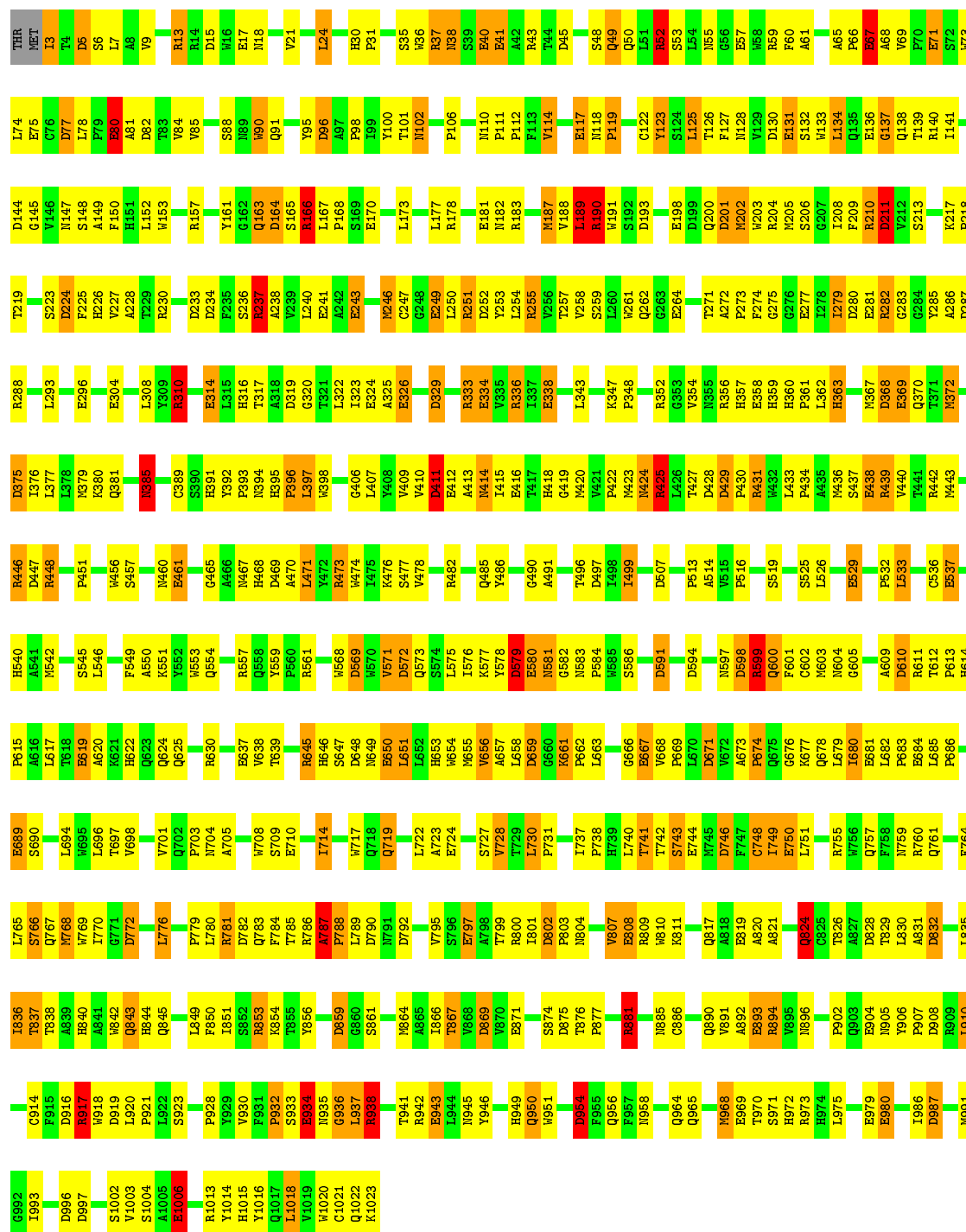
Chain B: 38% 43% 16%



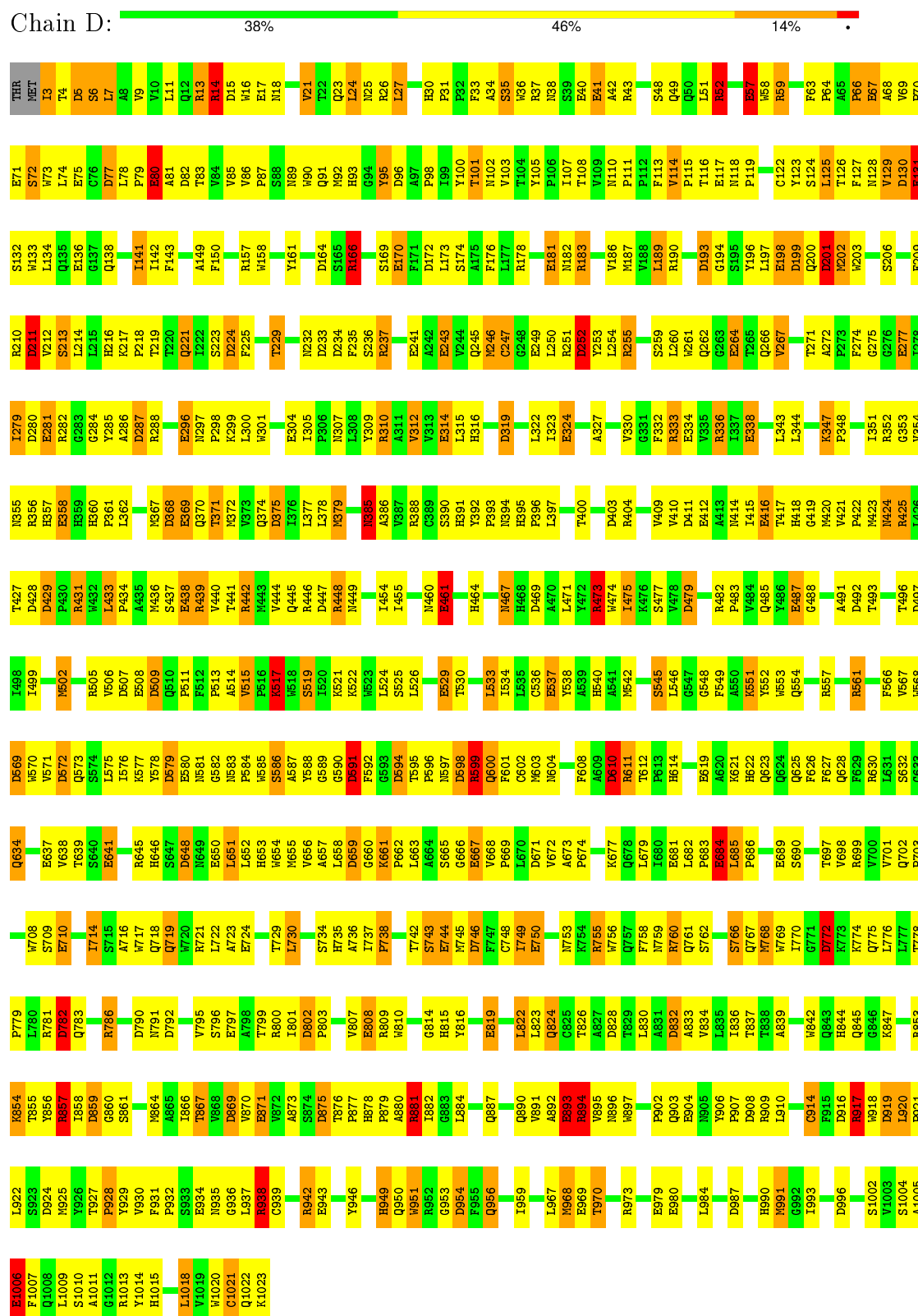


• Molecule 1: BETA-GALACTOSIDASE

Chain C: 44% 41% 12%



• Molecule 1: BETA-GALACTOSIDASE



Chain E: 

THR	MEI	I3	T4	D5	S6	L7	A8	V9	L11	Q12	R13	R14	D15	W16	E17	N18	G20	V21	Q23	Q22	Q23	N25	R26	L27	R32	F33	S35	W36	R37	R38	S39	E40	E41	A42	R43	T44	D45	R46	Q49	Q50	L51	R52	L54	E57	F58	R59	F60	C122	A61	L184									
F63	P64	A65	F66	F67	E67	V69	F70	E71	S72	W73	L74	E75	C76	D77	F79	R80	D81	D82	R83	W84	W85	V86	P87	N88	S88	R89	Y95	A96	A97	P98	T99	Y100	T101	M102	Y103	R166	Y105	P106	T107	T108	N110	F113	V114	S53	T116	L117	R118	P119	T120	N182	A61	L184							
S124	L125	T126	F127	N128	W129	D130	E131	L134	Q135	E136	G137	Q138	T139	R140	L141	I142	F143	D144	G145	V146	N147	S148	A149	F150	H151	Y152	W153	C154	N155	G156	Y161	G162	Q163	D164	S165	R166	L167	P168	S169	F170	D172	L173	S174	A175	F176	L177	R178	G180	E181	N182	A61	L184							
M187	L188	L189	R189	R190	R191	S192	D193	G194	S195	Y196	L197	E198	D199	Q200	W201	W202	W203	R204	W205	F206	G207	L208	F209	R210	D211	D212	S213	L214	L215	L216	Q217	L278	L279	D280	E281	G284	Y285	A286	D287	R288	V289	A290	T290	L291	R292	L293	E296	R297	P298	R299	L300	W301	E304	N307	L308	Y309	R310	C246	C247
V312	V313	E314	L315	L316	H317	A318	D319	G320	L321	L322	L323	E324	A325	E326	A327	G328	D329	V330	G331	F332	R333	G334	V335	R336	L337	E338	L344	L349	L350	L351	G352	G353	V354	N355	R356	H357	E358	R359	A360	P361	L362	H363	G364	V366	N367	D368	E369	A370	T371	N372	V373	Q374	L377	L378	N379				
K380	G381	N382	N383	F384	N385	A386	R387	R388	C389	S390	R391	Y392	F393	N394	R395	P396	L397	T400	L401	C402	D403	R404	L407	Y408	Y409	V410	D411	E412	A413	M414	L415	E416	T417	R418	C419	M420	V421	P422	R423	M424	R425	L426	T427	D428	P429	P430	N431	W432	L433	A434	A435	N436	Y437	E438	R439	V440	T441		
R442	M443	V444	Q445	R446	D447	R448	N449	H450	P451	S452	R453	V454	I455	W456	N460	E461	H464	G465	A466	N467	H468	D469	A470	Y471	Y472	R473	W474	I475	K476	S477	M478	D479	R482	P483	V484	Q485	Y486	E487	G488	A491	D492	T493	T496	D497	I498	L499	C500	P501	Y502	W503	A504	D505	V506	D507					
E508	D509	Q510	P511	F512	P513	A514	V515	P516	K517	K518	N519	S520	E521	K522	W523	L524	P527	G528	E529	T530	R531	P532	L533	I534	L535	C536	E537	Y538	N539	H540	A541	M542	G543	N544	S545	R546	G547	G548	F549	A550	K551	Q554	R557	Q558	Y559	P560	A561	L562	F566	Q567	Q568	Y569	W570	D571	D572				
Q573	S574	L575	S576	K577	Y578	D579	E580	N581	G582	N583	P584	S585	E586	A587	Y588	G589	G590	D591	F592	G593	D594	N597	D598	R599	F600	L601	C602	R603	N604	G605	L606	F607	F608	A609	D610	R611	T612	P613	H614	P615	A616	L617	T618	E619	A620	K621	H622	Q625	F626	F627	Q628	F629	R630	L631	D632	R633	W634	Q635	Q636
L636	E637	V638	T639	S640	E641	R645	R646	H647	S648	D649	H650	E651	L652	H653	W654	P655	L658	D659	G660	K661	P662	L663	G666	E667	V668	P669	R670	L671	D672	W673	F674	G675	K676	L677	L678	L679	E680	E681	L682	P683	E684	L685	P686	E689	S690	A691	G692	Q693	T697	V698	W701	Q702	P703	T706					
A707	W708	S709	E710	A711	I714	W717	L718	W719	Q720	W721	E724	S727	W728	T729	L730	S734	P738	T742	S743	E744	W745	R746	F747	C748	I749	E750	K754	R755	W756	Q757	F758	N759	R760	Q761	S762	G763	F764	L765	S766	Q767	W768	W769	I770	D772	Q775	L776	L777	T778	P779										
L780	R781	Q782	Q783	R786	R787	F788	L789	D790	W791	D792	W795	S796	E797	L798	W799	R800	L801	D802	P803	W806	W807	R808	R809	W810	G814	R815	W816	R817	R818	L819	L822	L823	Q824	C825	T826	A827	D828	T829	L830	A831	R832	A833	W834	L835	T836	T837	T838	A839	O843	R844	Q845	R846	R847						
T848	L849	I851	K854	T855	Y856	L857	L858	D859	W860	S861	M864	A865	R866	L867	W868	D869	E870	E871	W872	A873	S874	D875	T876	R877	H878	P879	A880	R881	L882	G883	L884	N885	C886	Q887	Q890	R891	A892	R893	R894	W897	L898	G901	P902	Q903	R904	Y905	Y906	P907	D908	R909	L910	T911	E919						
D916	R917	N918	T919	L920	P921	D924	N925	F926	R927	Y928	P928	Y929	R930	F931	P932	S933	R934	N935	G936	L937	R938	Y941	E942	E943	L944	Y945	Y946	G947	P948	R949	Q950	N951	D954	F955	Q956	F957	N958	S959	S960	R961	Y962	S963	Q964	Q965	Q966	N968	E969	T970	S971	Y972	R973	R974	L975	L976	E979				
E980	G981	T982	N983	L984	R985	T986	D987	G988	F989	R990	N991	G992	R993	G994	G995	D996	D997	S1000	P1001	S1002	Y1003	S1004	A1005	E1006	F1007	Q1008	L1009	S1010	A1011	G1012	R1013	Y1014	H1015	Y1016	Q1017	L1018	Y1019	W1020	Q1021	Q1022	K1023																		

• Molecule 1: BETA-GALACTOSIDASE

THR	W73	Q138	P209	G276	L350	H418	D492	L562	R630	T897	G771	H844	A913	D987
MET	L74	T139	R210	E277	I361	H418	T493	Q563	L631	V698	D772	Q846	C914	H90
I3	E76	R140	D211	I278	R352	V421	T496	F566	S632	R699	L777	K347	F915	H991
T4	C76	G145	S213	I279	G353	P422	D497	F567	G633	V700	L777	T848	D916	G992
D5	D77	G146	S213	D280	V354	M423	D498	W668	Q634	W701	T778	T849	R917	G993
S6	L78	G145	S213	D281	V355	R424	D499	W669	T635	Q702	T779	L849	W918	L933
L7	P79	R147	K217	G282	R356	R425	C500	D569	L636	P703	L780	F850	D919	G994
A8	E80	S148	P218	G283	R357	L426	C500	W570	E637	T706	W781	R853	G995	G996
R13	A81	H151	T219	G284	E358	T427	P501	W571	T638	W707	D782	R854	D997	D997
R14	D82	H152	D224	A286	R360	D429	R505	Q573	S640	W708	F784	T855	D924	D924
D15	T83	L152	P225	A287	R361	P430	V506	L576	E641	S709	L789	R857	T927	S1002
W16	W84	W153	R226	R288	L362	R431	D507	K977	F644	W710	D790	R858	R928	R1003
E17	W85	C154	V227	V289	R563	W432	E508	K978	H646	S711	L791	L858	R929	R1004
N18	W86	N155	A228	T290	G364	L433	D509	S789	H645	W712	D792	D859	W930	S1004
V21	S88	G156	T229	L291	Q365	P434	Q510	D579	H646	W713	W792	Q863	F931	E1005
Q23	W89	W158	R230	L292	W367	M435	P511	E580	S647	Q719	S796	W864	F932	F1007
Q23	W90	T231	R231	L293	W368	A436	P512	N881	D648	W720	E723	A865	Q933	Q1008
L24	Q91	G160	Q232	L294	D368	A437	P513	G582	W649	W721	E724	A866	R934	Q1009
W25	W92	Y161	D233	E296	E369	E438	W514	N883	E650	W722	L722	R866	Q935	Q1010
L27	H93	D164	D234	N297	M372	R442	W518	W585	L631	W723	L723	W872	Q936	A1011
E30	D96	S165	R235	W301	Q374	R443	S519	Y588	L632	W724	E724	W873	Q937	R1012
P31	A97	R166	R236	E304	D375	M443	L520	G589	W654	L730	W725	W874	Q938	R1013
S35	P98	L167	R237	I305	T376	Q445	W522	G590	W655	P731	L731	W875	Q939	Y1014
W36	Y100	S169	E241	P306	L377	R446	W523	D591	W656	W732	L732	W876	Q940	Y1015
R37	T101	E170	A242	P307	L378	D447	W524	D592	W657	W733	L733	W877	Q941	Y1016
N38	N102	F171	E243	L308	M379	R448	S525	D593	W658	W734	L734	W878	Q942	Q1017
S39	L107	D172	M246	R310	Q381	H450	L526	P596	E657	W735	L735	W879	Q943	Q1018
E40	T108	L173	C247	R311	N382	P451	L527	N597	L658	W736	L736	W880	Q944	L1017
E41	V109	F176	E248	E314	N383	S452	E529	D598	D659	W737	L737	W881	Q945	L1018
A42	M110	L177	R251	L315	F384	W453	T530	D599	W660	W738	L738	W882	Q946	Y1019
R43	P111	G180	R252	H316	N385	I454	R531	Q600	W661	W739	L739	W883	Q947	Y1020
T44	P112	E181	D253	T317	A386	L458	P532	F601	E666	W740	L740	W884	Q948	Y1021
D45	F113	E182	D254	A318	Q387	G459	L533	G802	W667	W741	L741	W885	Q949	Q1022
R46	V114	N182	Y253	D319	R388	R459	L534	M803	W668	W742	L742	W886	Q950	Q956
Q49	P115	L183	L254	T321	C389	M460	E538	M804	W669	W743	L743	W887	Q951	F957
R52	E117	L185	V256	L322	S390	E461	T538	G805	L670	W744	L744	W888	Q952	V958
S53	N118	V186	T257	L323	R391	H464	A539	L606	D671	W745	L745	W889	Q953	Q959
L54	P119	M187	V258	E324	Y392	G465	W542	F608	W672	W746	L746	W890	Q954	R961
N55	L260	V188	S259	A325	N394	N466	W543	A809	Q678	W747	L747	W891	Q955	T967
G56	R190	L189	L261	E326	R395	N467	S545	D810	L679	W748	L748	W892	Q956	W968
E57	D193	D193	Q262	D329	Q402	H468	L546	T612	L682	W749	L749	W893	Q957	E969
W58	D194	E198	E263	R333	D403	L471	K551	P613	F683	W750	L750	W894	Q958	T970
B59	F127	T265	T265	E334	R404	R473	Y552	P614	E684	W751	L751	W895	Q959	L973
F63	N128	Q266	Q266	V335	E404	I474	A616	P615	L685	W752	L752	W896	Q960	R974
P64	V129	V267	V267	E336	L407	I475	W553	A617	L686	W753	L753	W897	Q961	L975
A65	D130	A268	A268	I337	Y408	K476	T618	P686	Q687	W754	L754	W898	Q962	R976
P66	D131	Q200	S269	E338	V409	S477	Q554	W554	Q688	W755	L755	W899	Q963	E979
E67	W132	N202	G270	L343	V410	V478	F556	E555	E689	W756	L756	W900	Q964	R980
W68	W133	W203	T271	L344	D411	E487	W557	Q625	S690	W757	L757	W901	Q965	Q981
V69	L134	R204	A272	K347	M414	E488	Q558	F626	W693	W758	L758	W902	Q966	L984
E71	Q135	R205	F274	P348	G490	E489	W559	Q627	W694	W759	L759	W903	Q967	W985
S72	G137	L208	G275	L349	T417	A491	R561	F629	L696	W760	L760	W904	Q968	A61

● Molecule 1: BETA-GALACTOSIDASE

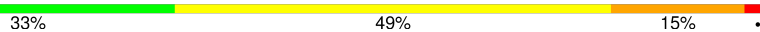
Chain H: 26% 50% 20%

THR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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L976	A912	K847	R781	A705	B637	H670	A504	T441	H379	V313	R251	V188	L125	F63
E979	A913	T848	D782	T706	B641	V571	R505	R442	K380	E314	D252	L189	T126	F64
E980	C914	L849	D785	A707	B645	Q572	V506	M443	N382	L315	Y253	R190	F127	A65
G981	F915	F850	T785	S709	R646	Q573	E508	Q445	N382	H316	L254	D191	N128	P66
T982	R917	S852	A787	E710	R647	K577	D509	Q446	R385	T317	R255	S193	V129	E67
L983	H918	K853	L789	A711	S647	Y578	Q510	D447	A386	A318	T257	G194	D130	A68
L984	D919	T855	L789	G712	R648	D579	F511	R447	V387	D319	T258	S195	E131	V69
L985	L920	R856	D790	A716	R649	E580	F512	R448	R388	G320	S259	F170	S132	F70
L986	P921	R857	D792	A717	B650	N681	P513	R449	C389	L322	T321	M133	M133	E71
L987		R858	D792	Q718	L651	G682	A514	R451	S390	L323	W261	L134	Q135	S72
L988		I858	D795	Q719	L652	N683	V515		H391	E324	Q262	Q200	E136	L74
L989		D859	S796	W719	R654	P684	P516		Y392	A325	G263	D201	E137	E75
L990				W720	R655				F393	E326	E264	M202	Q138	C76
L991					R656	Y588	S519		N394	A327	T265	W203	T139	D77
L992					R657	G589	S520		R396	G329	Q266	R204	R140	L78
L993					R658	G590	R521		R396	V330	T267	W205	I141	P79
L994					R659	D591	R522		V398	V330	A268	S206	E300	E30
L995					R660		R523		Y399	G331	S269	G207	D144	A81
L996					R661	D594	R524		T400	F332	Q270	T208	M147	B62
L997					R662	T595	L524		L401	R333	T271	T209	M147	T83
L998					R663	N597			G463	E334	A272	R210	S148	W84
L999					L663	N597			H464	V335	P273	D211	A149	W85
S1000						D598	R531		D403	R336	F274	W212	F150	W86
P1001						R599	P532		R404	T337	G275	S213	H151	P87
S1002						Q600	L533		Y485	E338	G276	L214	L152	S88
V1003						R601	L534		G406		E277	T215	M153	S89
S1004						C602	L535			L342	T278	H216	C154	X90
A1005						R603	C536		V409	L343	T279	R217	M155	Q91
F1007						N604	E537		V410	L344	D280	P218	G156	N92
Q1008						G605			D411		E281	T219	R157	R93
L1009						L606	A541		E412	L350	R282	T220	M158	G94
S1010						F607	M542		A413	L351		Q221	V159	P95
G1011						R608	G543		M414	R352	Y285	T222	G160	D96
P1012						A609	N544		L415	G353	A286	S223	V161	A97
R1013						S545	S546		V416	V354	D287	D224	Q162	P98
H1014						R611	L546		T417	N355	R288	F225	Q163	P99
Y1015						T612	G547		E418	R356	V289	H226	D164	Y100
L1018						T613	G548		G419	R357	T290	V227	S165	T101
Y1019						H614	F549		M420	E358	L291	A228	R166	M102
Q1020						P615	A550		V421	R359	R292	T229	L167	V103
C1021						A616	K551		P422	H360	R293	D230	P168	T104
Q1022						L617	V552		M423	P361		F231	S169	Y105
Y1023						T618	R553		M424	L362	E286	N232	E170	P106
						R619	G554		R425	H363	N297	D233	F171	L107
						A620	A555		L426	G364	P298	D234	D172	T108
						K621	F556		T427	Q365	K299	F235	L173	V109
						H622	R557		D428	V366	L300	S236		
						Q623	G558		D429	N367	W301	B237	F176	F113
						Q624	V559		P430	D368	S302	A238	L177	F114
						Q625	F560		R431	E369	A303	V239	R178	V114
						F629	R561		W432	Q370	E304	L240	A179	P115
						R630	L562		L433	T371	E306	E241	G180	T116
						L631	Q563		P434	N372	P306	E117	E181	E117
						G632	G564		A435	V373	N307	Q245	N182	N118
						S633	G565		W436	L308	L309	Q246	R183	P119
						Q702	F567		C500	D375	Y309	C247	L184	T120
						T635	W568		E438	L376	R310	G248	A185	
						N704	H689		F501	L377	R311	E249	V186	Y123
							D569		Y503	V312		L250	M187	S124

• Molecule 1: BETA-GALACTOSIDASE

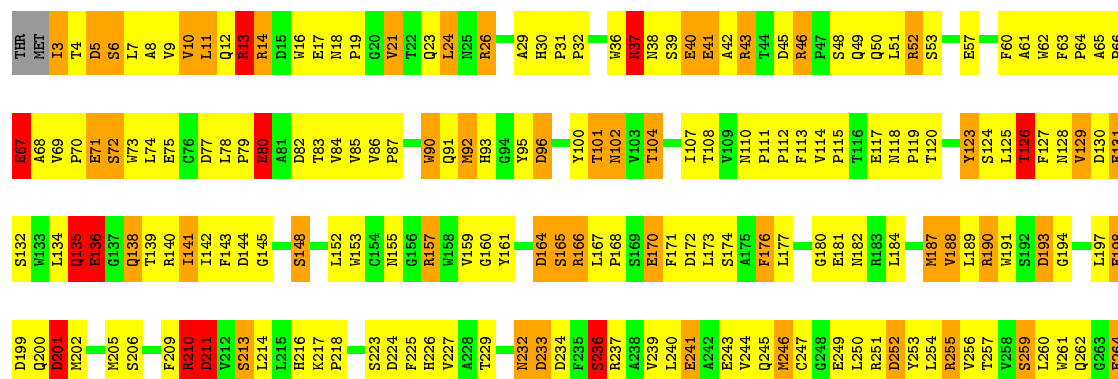
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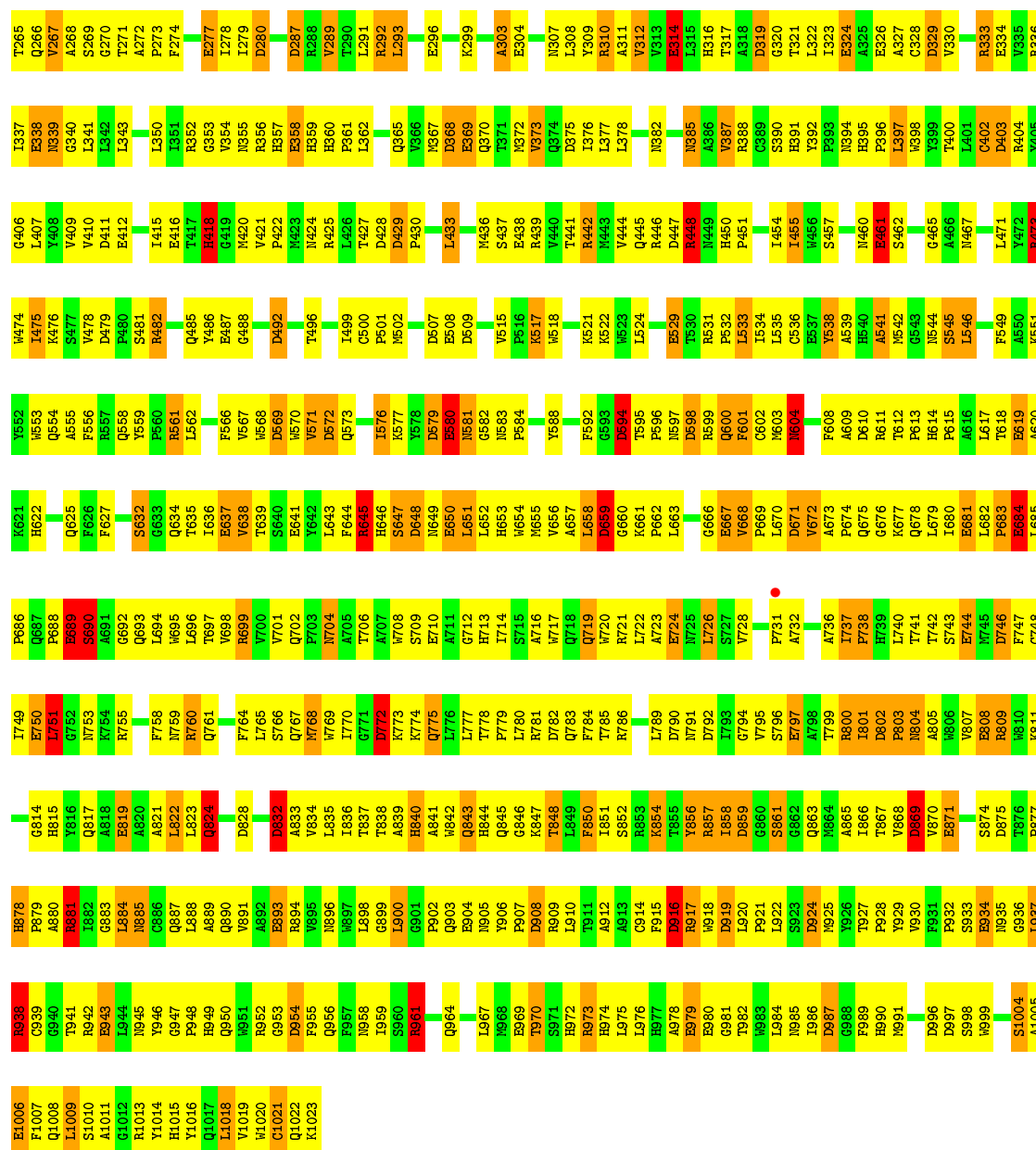


THR	Y21	T22	T23	L24	N25	R26	L27	A28	H29	A30	P31	P32	F33	A34	S35	R36	N37	N38	S39	E40	E41	A42	R43	T44	D45	R46	P47	S48	Q49	Q50	L51	R52	S53	L54	N55	G56	E57	W58	R59	F60	A61	W62
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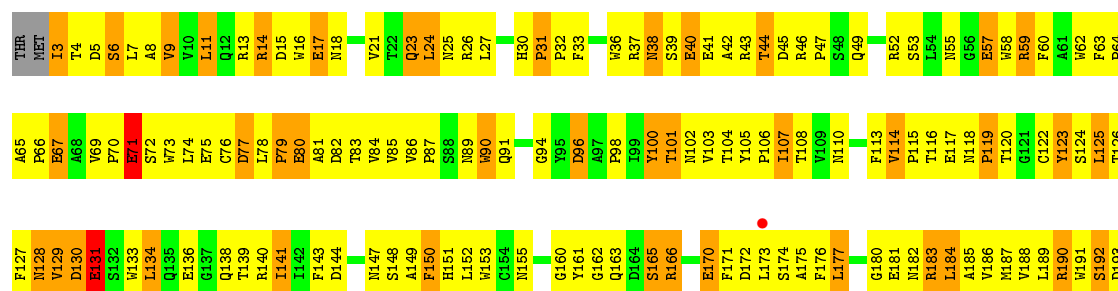
Chain K: 30% 50% 16% •

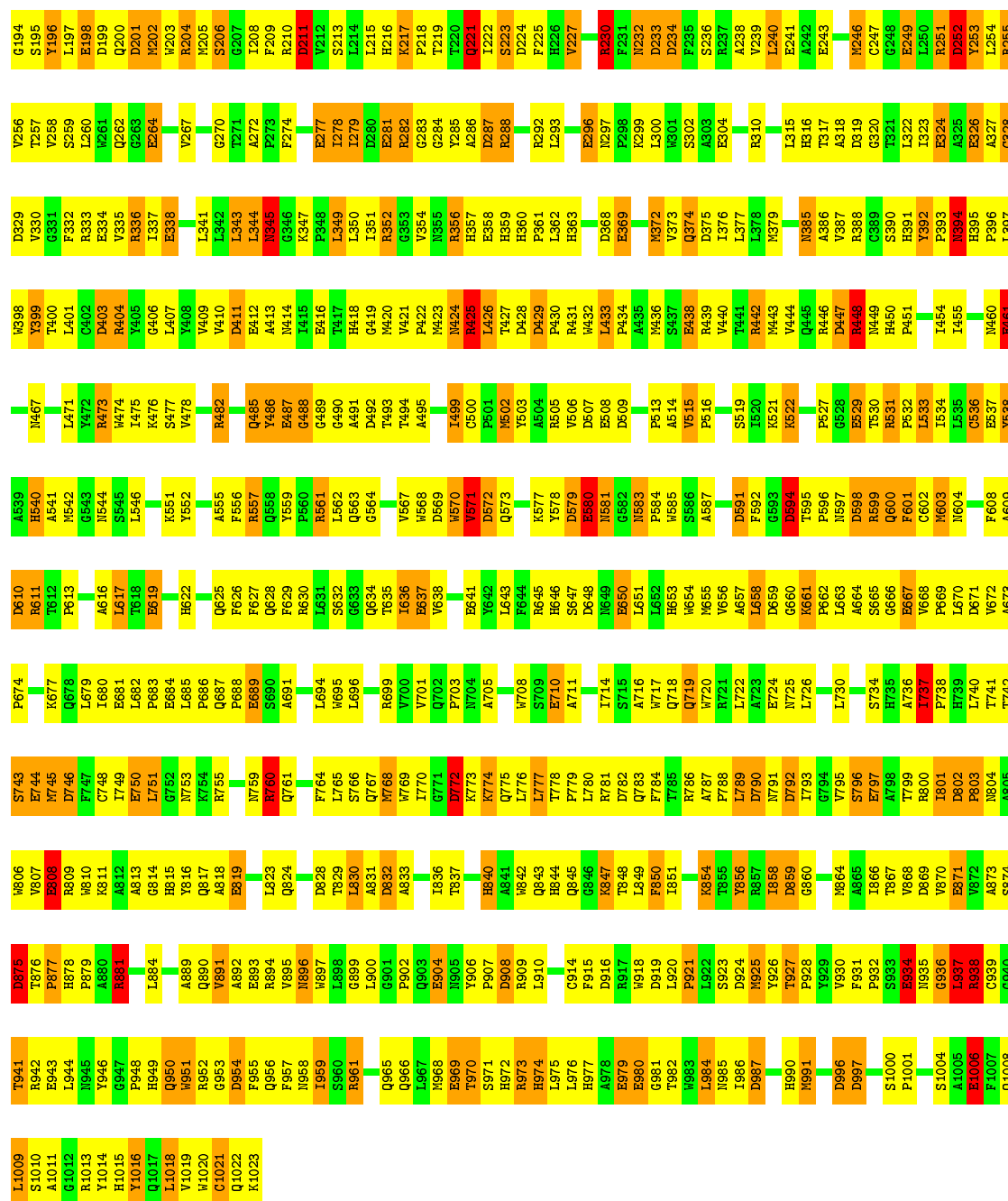




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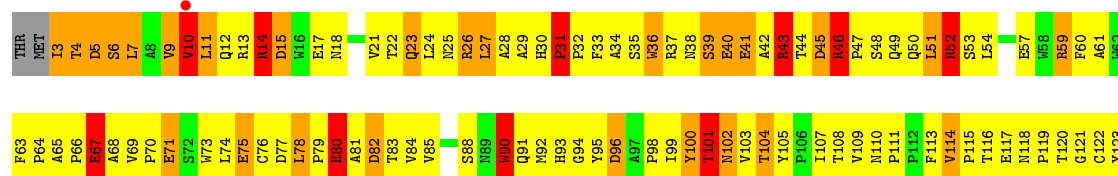
Chain L: 29% 49% 19%





• Molecule 1: BETA-GALACTOSIDASE

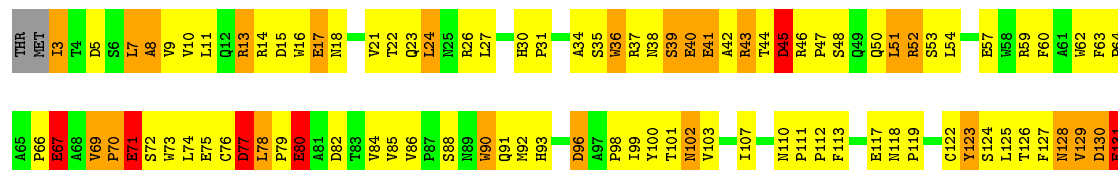
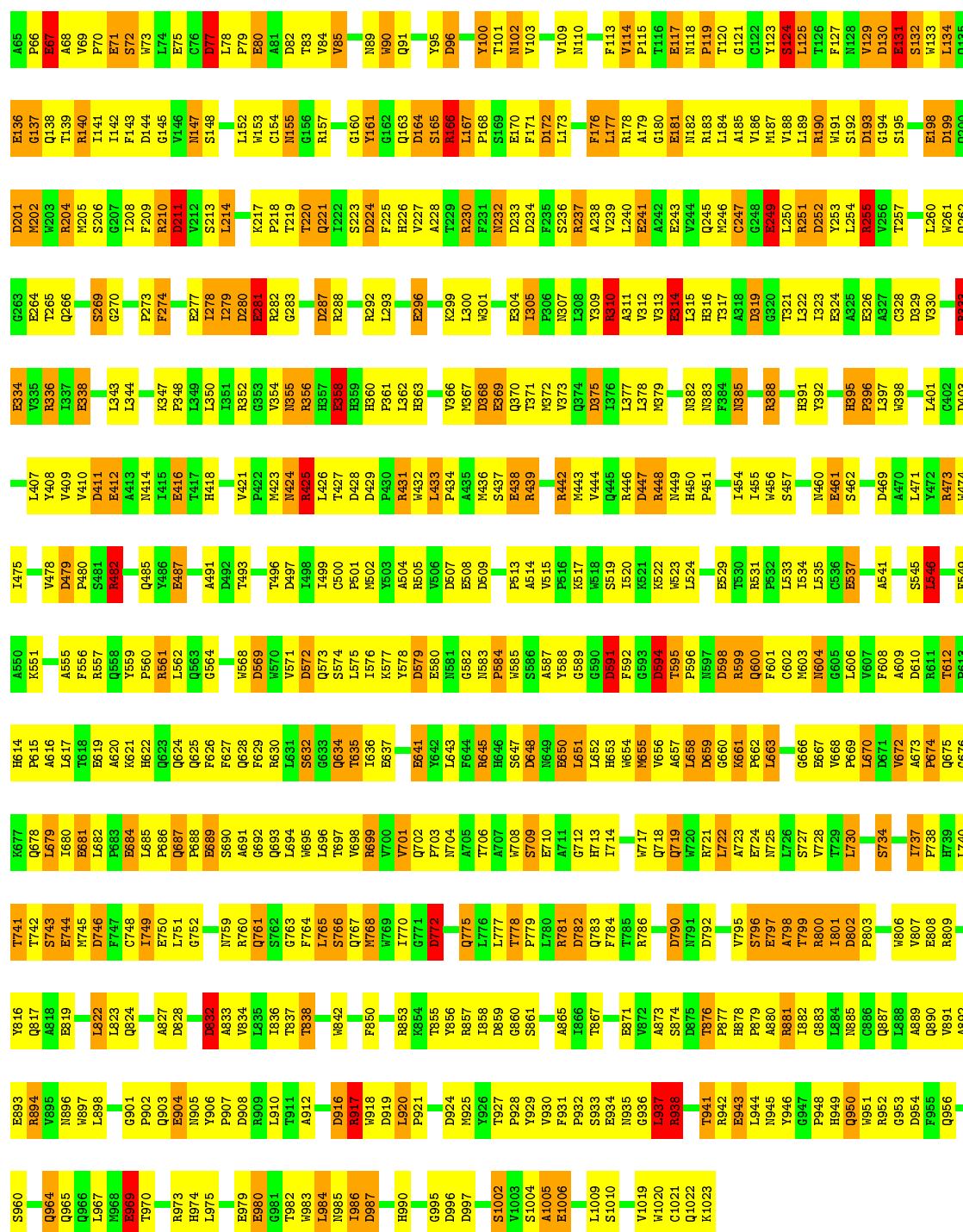
Chain M:





Response	Percentage
Yes	34%
No	46%
Don't know	17%





- Molecule 1: BETA-GALACTOSIDASE

F1007	R942	B881	H815	N753	L885	Q623	Y559	G490	P430	D368	N307	Q245	A185	G122
Q1008	E943	L884	Y816	K754	P666	Q624	P660	A491	R631	E369	L308	P246	Y186	Y123
L1009	I944	N885	Q817	R755	Q887	F626	R561	D492	W432	Q370	Y309	C247	M187	
S1010	N945	A818	A818		P888		L562	T493	L433		R310	G248	Y188	T126
	Y946	Q866	E819	N758	S890	F629	Q663	T494	P434	Q373	A311	E249	L189	F127
R1013	G947	Q867	L822	N759	S890	R630	F566	A495	A435	Q374	N312	R351	R190	N128
Y1014	Y1014	L883	L823	R760	L694	L631	F567	T496	N436	D375	V313	E251	L250	N129
H1015	Q824	Q824	W895		W895	S632	W568	T497	S437	L376	E314	D282	E351	D130
Y1016	D828		L896	F764	L696	G633	W569	T498	A438	L377	L315	Y253	D193	E131
Q1017	T829	N891	T897	T765	T897	Q634	W570	C500	R439	M379	R316	L254	G194	S132
L1018	L830	Q766	V698	S766	V698	T635	V571	P501	T441	K360	T317	R255	S195	W133
Y1019	L830	Q767	R699	Q767	R699	T636	D572	M502	R442	Q381	A318	T256	Y196	L134
H1020	L831	W700	V700	N768	V700	E637	Q573	Y503	W443	N382	D319	T257	L197	Q135
Q1021	D832	W769	W701	W769	W701	V638	S574	A504	V444	N383	G520	V258	E188	E136
Q1022	A833	W770	Q702	L575	Q702	T639	R505	Q445	Q445	F384	T321	S259	D199	G137
K1023	W834	W770	P703	S646	P703	Q640	W506	Q445	Q445	Y391	L322	L260	Q200	Q138
	L835	D772	N704	E641	N704	E641	K577	D447	D447	N385	R324	W261	D201	T139
	R836	K773	A705	W642	A705	W642	W578	R448	R448	Y387	A325	Q262	N202	R140
	T837	T706	T706	L643	T706	L643	D579	W609	W449	R388	E326	E264	W203	I141
	T838	A707	A707	F644	A707	F644	E580			C389	A327	T265	F143	I142
	A839	W708	W708	R645	W708	R645	N515			S390	C328	Q266	S206	D144
	H840	S709	S709	H646	S709	H646	P584	W518	P451	H391	D329	Q267	G145	G145
	A841	E710	E710	D647	E710	D647	H585	S519	V453	Y392	V330	A268	I208	V146
	W842	T778	T778	D648	T778	D648	S866	W520	L454	P393	G331	G270	F209	N147
	Q843	T780	T780	R649	T780	R649	A887	K521	W456	N394	P332	G270	R210	S143
	H844	R781	R781	E650	R781	E650	G590	K522	S457	H395	R333	T271	D211	A149
	R845	T776	T776	L651	T776	L651	G591	W523	A577	P396	E334	A272	F150	V212
	Q846	W784	W784	L652	W784	L652	D591	L524	G459	S391	D329	Q267	G145	G145
	K847	T784	T784	H653	T784	H653	F592	S525	W460	H398	R336	F274	L214	L152
	T848	T785	T785	W654	T785	W654	G593	L526	R661	Y399	T337	G275	W153	G154
	L849	R786	R786	W655	L849	W655	D594	P527	S462	T400	E338	G276	K217	N156
	F850	A787	A787	V656	F850	V656	T595	G528	G463	L401	L341	I278	P218	G156
	R853	T788	T788	L657	R853	L657	P596	E529	H464	C402	L342	I279	T219	G156
	K854	W790	W790	D659	K854	D659	N597	T530	G465	D403	L344	D280	W158	W158
	T855	D791	D791	G660	T855	G660	D598	R531	A466	R404	L344	E281	Q221	V159
	Y856	D792	D792	L681	Y856	L681	R599	P532	N467	L407	N345	E382	T222	G160
	R857	I793	I793	P662	R857	P662	Q600	L533	H468	Y408	G346	G283	S223	Y161
	L858	G794	G794	L663	L858	L663	F601	L534	D469	V409	K347	G284	D224	G162
	D859	W795	W795	A664	D859	A664	C602	L535	A470	V410	P348	Y285	F225	Q163
	G860	S796	S796	S665	G860	S665	M603	C536	L471	D411	L349	A286	H226	D164
	S861	E797	E797	G666	S861	G666	N604	E537	Y472	E412	L350	D287	V227	S165
	Q862	A798	A798	E667	Q862	E667	G605	Y538	R473	A413	L351	E288	A228	R166
	R863	T799	T799	V668	R863	V668	L606	A539	W474	N414	R352	V289	T229	
	M864	R800	R800	P669	M864	P669	B540	A539	L475	F231	L293		R230	E170
	A865	L801	L801	L670	A865	L670	F608	A541	K476	F231	L293		R230	F171
	L866	D802	D802	D671	L866	D671	A609	N542	S477	E416	N355	N294	N232	D172
	T867	P803	P803	W672	T867	W672	D610	G543	V478	T417	R356	Y295	D233	L173
	W668	T741	T741	A673	W668	A673	R611	N544	D479	G419	R357	E296	D234	S174
	D869	A805	A805	P674	D869	P674	T612	S545	P480	M420	E358	N297	F235	A175
	W870	R806	R806	K677	W870	K677	L546	L546	S481	V421	R359	K299	R236	F176
	E871	W807	W807	L678	E871	L678	G547	G547	R482	P422	R360	K299	R237	L177
	S874	E808	E808	Q678	S874	Q678	G548	G548	R482	P422	R360	K299	R237	L177
	D875	L679	L679	F747	D875	F747	P549	W484	Q483	M423	P361	L300	A238	R178
	T876	W810	W810	C748	T876	W810	T618	A550	Q485	N424	L362	N301	V239	A179
	R877	R611	R611	E681	R877	E681	E619	K551	Y486	R425	R363	S302	L240	G180
	H878	A812	A812	L682	H878	L682	A620	W552	E487	T427	Q365	A303	E241	E181
		L751	L751	P683		P683	K621	W553	G488	D428	V366	I305	A242	N182
		G814	G814	E684		E684	H622		G489	D429	N367	P306	V244	L184

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	107.90Å 207.50Å 509.90Å 90.00° 94.70° 90.00°	Depositor
Resolution (Å)	8.00 – 2.50 92.62 – 2.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (8.00-2.50) 39.3 (92.62-2.00)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.07 (at 2.00Å)	Xtriage
Refinement program	TNT V. 5-D	Depositor
R, R_{free}	0.174 , (Not available) (Not available) , (Not available)	Depositor DCC
R_{free} test set	NotAvailable	DCC
Wilson B-factor (Å ²)	27.6	Xtriage
Anisotropy	0.197	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 89.5	EDS
Estimated twinning fraction	0.009 for h,-k,-h-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.30$	Xtriage
Outliers	0 of 590207 reflections	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	132654	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.98% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: 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	1.16	51/8440 (0.6%)	1.52	139/11516 (1.2%)
1	B	1.17	54/8440 (0.6%)	1.51	130/11516 (1.1%)
1	C	1.18	56/8440 (0.7%)	1.50	132/11516 (1.1%)
1	D	1.16	55/8440 (0.7%)	1.52	148/11516 (1.3%)
1	E	1.16	55/8440 (0.7%)	1.56	145/11516 (1.3%)
1	F	1.18	45/8440 (0.5%)	1.53	144/11516 (1.3%)
1	G	1.16	58/8440 (0.7%)	1.51	151/11516 (1.3%)
1	H	1.16	56/8440 (0.7%)	1.57	150/11516 (1.3%)
1	I	1.13	53/8440 (0.6%)	1.52	140/11516 (1.2%)
1	J	1.12	48/8440 (0.6%)	1.48	134/11516 (1.2%)
1	K	1.09	53/8440 (0.6%)	1.45	115/11516 (1.0%)
1	L	1.13	53/8440 (0.6%)	1.54	134/11516 (1.2%)
1	M	1.16	55/8440 (0.7%)	1.58	142/11516 (1.2%)
1	N	1.14	51/8440 (0.6%)	1.49	127/11516 (1.1%)
1	O	1.11	54/8440 (0.6%)	1.49	141/11516 (1.2%)
1	P	1.17	57/8440 (0.7%)	1.60	151/11516 (1.3%)
All	All	1.15	854/135040 (0.6%)	1.52	2223/184256 (1.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	0
1	B	1	0
1	D	2	1
1	E	1	0
1	F	2	0
1	G	2	0
1	H	1	0

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	I	1	0
1	J	1	0
1	L	1	0
1	M	2	0
1	P	2	0
All	All	17	1

All (854) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	358	GLU	CD-OE2	11.52	1.38	1.25
1	F	75	GLU	CD-OE1	10.30	1.36	1.25
1	K	358	GLU	CD-OE2	9.34	1.35	1.25
1	B	650	GLU	CD-OE1	9.31	1.35	1.25
1	F	326	GLU	CD-OE2	9.01	1.35	1.25
1	L	650	GLU	CD-OE1	8.98	1.35	1.25
1	C	819	GLU	CD-OE1	8.96	1.35	1.25
1	J	80	GLU	CD-OE2	8.73	1.35	1.25
1	G	650	GLU	CD-OE1	8.71	1.35	1.25
1	N	438	GLU	CD-OE2	8.72	1.35	1.25
1	B	181	GLU	CD-OE1	8.71	1.35	1.25
1	P	650	GLU	CD-OE1	8.71	1.35	1.25
1	H	650	GLU	CD-OE1	8.64	1.35	1.25
1	A	529	GLU	CD-OE2	8.49	1.34	1.25
1	P	416	GLU	CD-OE1	8.45	1.34	1.25
1	I	744	GLU	CD-OE2	8.43	1.34	1.25
1	F	131	GLU	CD-OE2	8.39	1.34	1.25
1	L	249	GLU	CD-OE1	8.36	1.34	1.25
1	N	943	GLU	CD-OE1	8.36	1.34	1.25
1	P	980	GLU	CD-OE2	8.35	1.34	1.25
1	E	358	GLU	CD-OE2	8.32	1.34	1.25
1	B	979	GLU	CD-OE2	8.28	1.34	1.25
1	C	241	GLU	CD-OE1	8.27	1.34	1.25
1	F	684	GLU	CD-OE2	8.21	1.34	1.25
1	L	281	GLU	CD-OE2	8.21	1.34	1.25
1	H	249	GLU	CD-OE2	8.18	1.34	1.25
1	C	979	GLU	CD-OE2	8.17	1.34	1.25
1	L	619	GLU	CD-OE1	8.14	1.34	1.25
1	M	619	GLU	CD-OE1	8.13	1.34	1.25
1	A	277	GLU	CD-OE2	8.12	1.34	1.25
1	J	744	GLU	CD-OE2	8.12	1.34	1.25
1	D	131	GLU	CD-OE2	8.08	1.34	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	181	GLU	CD-OE1	8.07	1.34	1.25
1	E	744	GLU	CD-OE2	8.05	1.34	1.25
1	N	334	GLU	CD-OE2	8.04	1.34	1.25
1	F	580	GLU	CD-OE2	8.03	1.34	1.25
1	L	724	GLU	CD-OE2	8.02	1.34	1.25
1	B	249	GLU	CD-OE2	7.98	1.34	1.25
1	D	744	GLU	CD-OE2	7.98	1.34	1.25
1	N	136	GLU	CD-OE2	7.97	1.34	1.25
1	L	326	GLU	CD-OE2	7.95	1.34	1.25
1	P	637	GLU	CD-OE1	7.95	1.34	1.25
1	C	744	GLU	CD-OE2	7.94	1.34	1.25
1	A	358	GLU	CD-OE1	7.93	1.34	1.25
1	D	136	GLU	CD-OE2	7.93	1.34	1.25
1	K	249	GLU	CD-OE2	7.92	1.34	1.25
1	L	181	GLU	CD-OE1	7.88	1.34	1.25
1	P	508	GLU	CD-OE1	7.86	1.34	1.25
1	E	487	GLU	CD-OE2	7.84	1.34	1.25
1	M	17	GLU	CD-OE1	7.83	1.34	1.25
1	D	198	GLU	CD-OE2	7.83	1.34	1.25
1	L	744	GLU	CD-OE2	7.81	1.34	1.25
1	E	619	GLU	CD-OE1	7.80	1.34	1.25
1	P	326	GLU	CD-OE2	7.79	1.34	1.25
1	F	181	GLU	CD-OE2	7.78	1.34	1.25
1	B	637	GLU	CD-OE1	7.77	1.34	1.25
1	O	75	GLU	CD-OE1	7.77	1.34	1.25
1	C	684	GLU	CD-OE2	7.75	1.34	1.25
1	B	136	GLU	CD-OE2	7.74	1.34	1.25
1	G	281	GLU	CD-OE2	7.72	1.34	1.25
1	H	508	GLU	CD-OE1	7.71	1.34	1.25
1	O	136	GLU	CD-OE2	7.70	1.34	1.25
1	H	637	GLU	CD-OE1	7.68	1.34	1.25
1	B	744	GLU	CD-OE2	7.67	1.34	1.25
1	D	40	GLU	CD-OE1	7.67	1.34	1.25
1	H	893	GLU	CD-OE2	7.67	1.34	1.25
1	A	797	GLU	CD-OE2	7.67	1.34	1.25
1	P	131	GLU	CD-OE1	7.66	1.34	1.25
1	M	744	GLU	CD-OE2	7.65	1.34	1.25
1	K	650	GLU	CD-OE1	7.65	1.34	1.25
1	N	416	GLU	CD-OE1	7.63	1.34	1.25
1	G	249	GLU	CD-OE2	7.61	1.34	1.25
1	C	17	GLU	CD-OE2	7.60	1.34	1.25
1	J	808	GLU	CD-OE2	7.59	1.34	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	689	GLU	CD-OE1	7.57	1.33	1.25
1	G	580	GLU	CD-OE2	7.57	1.33	1.25
1	G	508	GLU	CD-OE1	7.55	1.33	1.25
1	H	750	GLU	CD-OE1	7.54	1.33	1.25
1	A	637	GLU	CD-OE2	7.53	1.33	1.25
1	M	979	GLU	CD-OE1	7.53	1.33	1.25
1	N	904	GLU	CD-OE1	7.51	1.33	1.25
1	C	67	GLU	CD-OE2	7.51	1.33	1.25
1	A	681	GLU	CD-OE2	7.49	1.33	1.25
1	G	689	GLU	CD-OE1	7.48	1.33	1.25
1	A	808	GLU	CD-OE2	7.48	1.33	1.25
1	I	689	GLU	CD-OE1	7.48	1.33	1.25
1	K	580	GLU	CD-OE2	7.46	1.33	1.25
1	E	136	GLU	CD-OE2	7.46	1.33	1.25
1	C	580	GLU	CD-OE2	7.45	1.33	1.25
1	E	57	GLU	CD-OE2	7.45	1.33	1.25
1	J	580	GLU	CD-OE2	7.45	1.33	1.25
1	G	684	GLU	CD-OE2	7.43	1.33	1.25
1	J	326	GLU	CD-OE2	7.43	1.33	1.25
1	H	314	GLU	CD-OE2	7.43	1.33	1.25
1	D	277	GLU	CD-OE2	7.41	1.33	1.25
1	I	249	GLU	CD-OE2	7.40	1.33	1.25
1	H	580	GLU	CD-OE2	7.40	1.33	1.25
1	P	136	GLU	CD-OE1	7.40	1.33	1.25
1	L	684	GLU	CD-OE2	7.39	1.33	1.25
1	E	893	GLU	CD-OE2	7.38	1.33	1.25
1	J	724	GLU	CD-OE1	7.36	1.33	1.25
1	B	131	GLU	CD-OE2	7.35	1.33	1.25
1	A	580	GLU	CD-OE2	7.35	1.33	1.25
1	E	438	GLU	CD-OE1	7.35	1.33	1.25
1	K	710	GLU	CD-OE2	7.34	1.33	1.25
1	O	1006	GLU	CD-OE2	7.32	1.33	1.25
1	H	744	GLU	CD-OE2	7.32	1.33	1.25
1	L	117	GLU	CD-OE2	7.32	1.33	1.25
1	B	277	GLU	CD-OE2	7.31	1.33	1.25
1	D	241	GLU	CD-OE1	7.31	1.33	1.25
1	I	980	GLU	CD-OE2	7.30	1.33	1.25
1	C	934	GLU	CD-OE2	7.30	1.33	1.25
1	L	75	GLU	CD-OE2	7.30	1.33	1.25
1	M	358	GLU	CD-OE2	7.29	1.33	1.25
1	G	40	GLU	CD-OE1	7.28	1.33	1.25
1	E	724	GLU	CD-OE2	7.27	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	980	GLU	CD-OE2	7.26	1.33	1.25
1	K	71	GLU	CD-OE2	7.26	1.33	1.25
1	D	338	GLU	CD-OE2	7.26	1.33	1.25
1	O	249	GLU	CD-OE2	7.25	1.33	1.25
1	J	750	GLU	CD-OE2	7.25	1.33	1.25
1	F	304	GLU	CD-OE2	7.25	1.33	1.25
1	B	117	GLU	CD-OE2	7.24	1.33	1.25
1	N	324	GLU	CD-OE1	7.23	1.33	1.25
1	O	871	GLU	CD-OE2	7.23	1.33	1.25
1	J	264	GLU	CD-OE2	7.21	1.33	1.25
1	C	808	GLU	CD-OE2	7.20	1.33	1.25
1	N	338	GLU	CD-OE2	7.19	1.33	1.25
1	H	487	GLU	CD-OE2	7.19	1.33	1.25
1	L	819	GLU	CD-OE1	7.18	1.33	1.25
1	C	249	GLU	CD-OE2	7.17	1.33	1.25
1	E	416	GLU	CD-OE1	7.17	1.33	1.25
1	G	131	GLU	CD-OE2	7.17	1.33	1.25
1	H	724	GLU	CD-OE1	7.17	1.33	1.25
1	N	980	GLU	CD-OE2	7.17	1.33	1.25
1	O	681	GLU	CD-OE2	7.15	1.33	1.25
1	M	684	GLU	CD-OE2	7.14	1.33	1.25
1	P	57	GLU	CD-OE1	7.14	1.33	1.25
1	K	40	GLU	CD-OE1	7.14	1.33	1.25
1	C	136	GLU	CD-OE2	7.14	1.33	1.25
1	F	80	GLU	CD-OE2	7.13	1.33	1.25
1	M	689	GLU	CD-OE2	7.13	1.33	1.25
1	D	750	GLU	CD-OE2	7.12	1.33	1.25
1	L	131	GLU	CD-OE2	7.12	1.33	1.25
1	H	529	GLU	CD-OE1	7.12	1.33	1.25
1	A	281	GLU	CD-OE2	7.12	1.33	1.25
1	C	797	GLU	CD-OE2	7.11	1.33	1.25
1	J	324	GLU	CD-OE1	7.11	1.33	1.25
1	D	57	GLU	CD-OE2	7.11	1.33	1.25
1	N	181	GLU	CD-OE1	7.11	1.33	1.25
1	D	412	GLU	CD-OE2	7.11	1.33	1.25
1	H	131	GLU	CD-OE2	7.10	1.33	1.25
1	G	893	GLU	CD-OE2	7.09	1.33	1.25
1	F	170	GLU	CD-OE2	7.08	1.33	1.25
1	I	198	GLU	CD-OE2	7.08	1.33	1.25
1	O	980	GLU	CD-OE2	7.08	1.33	1.25
1	J	277	GLU	CD-OE2	7.08	1.33	1.25
1	B	943	GLU	CD-OE1	7.07	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	277	GLU	CD-OE2	7.06	1.33	1.25
1	I	277	GLU	CD-OE1	7.05	1.33	1.25
1	E	277	GLU	CD-OE2	7.05	1.33	1.25
1	F	314	GLU	CD-OE2	7.05	1.33	1.25
1	N	296	GLU	CD-OE2	7.05	1.33	1.25
1	M	797	GLU	CD-OE2	7.05	1.33	1.25
1	E	324	GLU	CD-OE1	7.04	1.33	1.25
1	E	412	GLU	CD-OE1	7.04	1.33	1.25
1	B	819	GLU	CD-OE1	7.04	1.33	1.25
1	I	969	GLU	CD-OE2	7.04	1.33	1.25
1	M	681	GLU	CD-OE2	7.04	1.33	1.25
1	E	980	GLU	CD-OE2	7.03	1.33	1.25
1	O	710	GLU	CD-OE2	7.03	1.33	1.25
1	M	241	GLU	CD-OE1	7.02	1.33	1.25
1	D	17	GLU	CD-OE2	7.02	1.33	1.25
1	J	689	GLU	CD-OE2	7.02	1.33	1.25
1	P	277	GLU	CD-OE2	7.02	1.33	1.25
1	N	75	GLU	CD-OE1	7.01	1.33	1.25
1	G	358	GLU	CD-OE2	7.01	1.33	1.25
1	L	198	GLU	CD-OE2	7.00	1.33	1.25
1	G	136	GLU	CD-OE2	7.00	1.33	1.25
1	N	249	GLU	CD-OE2	6.99	1.33	1.25
1	C	131	GLU	CD-OE2	6.99	1.33	1.25
1	I	136	GLU	CD-OE2	6.98	1.33	1.25
1	B	750	GLU	CD-OE2	6.98	1.33	1.25
1	J	893	GLU	CD-OE2	6.98	1.33	1.25
1	F	461	GLU	CD-OE2	6.98	1.33	1.25
1	F	744	GLU	CD-OE2	6.97	1.33	1.25
1	O	508	GLU	CD-OE1	6.97	1.33	1.25
1	P	684	GLU	CD-OE2	6.97	1.33	1.25
1	K	241	GLU	CD-OE2	6.96	1.33	1.25
1	B	797	GLU	CD-OE2	6.96	1.33	1.25
1	C	650	GLU	CD-OE1	6.96	1.33	1.25
1	P	750	GLU	CD-OE2	6.96	1.33	1.25
1	H	41	GLU	CD-OE2	6.96	1.33	1.25
1	J	75	GLU	CD-OE1	6.96	1.33	1.25
1	D	641	GLU	CD-OE1	-6.95	1.18	1.25
1	K	243	GLU	CD-OE1	6.95	1.33	1.25
1	N	461	GLU	CD-OE2	6.95	1.33	1.25
1	K	681	GLU	CD-OE2	6.95	1.33	1.25
1	H	136	GLU	CD-OE2	6.94	1.33	1.25
1	P	296	GLU	CD-OE2	6.94	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	181	GLU	CD-OE1	6.93	1.33	1.25
1	E	40	GLU	CD-OE1	6.93	1.33	1.25
1	C	264	GLU	CD-OE2	6.92	1.33	1.25
1	J	969	GLU	CD-OE2	6.92	1.33	1.25
1	G	314	GLU	CD-OE2	6.92	1.33	1.25
1	D	808	GLU	CD-OE2	6.91	1.33	1.25
1	H	75	GLU	CD-OE1	6.90	1.33	1.25
1	D	75	GLU	CD-OE1	6.90	1.33	1.25
1	J	249	GLU	CD-OE2	6.90	1.33	1.25
1	H	369	GLU	CD-OE1	6.89	1.33	1.25
1	N	508	GLU	CD-OE1	6.89	1.33	1.25
1	I	281	GLU	CD-OE2	6.89	1.33	1.25
1	I	358	GLU	CD-OE2	6.89	1.33	1.25
1	P	744	GLU	CD-OE2	6.88	1.33	1.25
1	H	277	GLU	CD-OE2	6.88	1.33	1.25
1	M	249	GLU	CD-OE2	6.88	1.33	1.25
1	M	304	GLU	CD-OE2	6.88	1.33	1.25
1	P	580	GLU	CD-OE2	6.87	1.33	1.25
1	A	893	GLU	CD-OE2	6.87	1.33	1.25
1	F	136	GLU	CD-OE2	6.87	1.33	1.25
1	L	241	GLU	CD-OE2	6.85	1.33	1.25
1	L	358	GLU	CD-OE2	6.85	1.33	1.25
1	J	537	GLU	CD-OE2	6.84	1.33	1.25
1	O	181	GLU	CD-OE1	6.84	1.33	1.25
1	E	681	GLU	CD-OE2	6.84	1.33	1.25
1	E	689	GLU	CD-OE2	6.84	1.33	1.25
1	C	40	GLU	CD-OE1	6.84	1.33	1.25
1	H	412	GLU	CD-OE2	6.84	1.33	1.25
1	E	241	GLU	CD-OE1	6.84	1.33	1.25
1	G	980	GLU	CD-OE2	6.84	1.33	1.25
1	E	131	GLU	CD-OE2	6.83	1.33	1.25
1	N	689	GLU	CD-OE1	6.83	1.33	1.25
1	I	117	GLU	CD-OE2	6.83	1.33	1.25
1	K	296	GLU	CD-OE2	6.83	1.33	1.25
1	N	537	GLU	CD-OE2	6.83	1.33	1.25
1	K	980	GLU	CD-OE2	6.83	1.33	1.25
1	K	508	GLU	CD-OE1	6.81	1.33	1.25
1	M	580	GLU	CD-OE2	6.81	1.33	1.25
1	N	969	GLU	CD-OE2	6.81	1.33	1.25
1	F	508	GLU	CD-OE1	6.80	1.33	1.25
1	D	689	GLU	CD-OE2	6.80	1.33	1.25
1	K	181	GLU	CD-OE1	6.80	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	277	GLU	CD-OE2	6.80	1.33	1.25
1	C	980	GLU	CD-OE2	6.80	1.33	1.25
1	G	710	GLU	CD-OE2	6.79	1.33	1.25
1	E	580	GLU	CD-OE2	6.78	1.33	1.25
1	N	41	GLU	CD-OE2	6.78	1.33	1.25
1	L	80	GLU	CD-OE2	6.78	1.33	1.25
1	O	338	GLU	CD-OE2	6.78	1.33	1.25
1	C	710	GLU	CD-OE2	6.78	1.33	1.25
1	I	75	GLU	CD-OE1	6.77	1.33	1.25
1	B	893	GLU	CD-OE2	6.77	1.33	1.25
1	L	264	GLU	CD-OE2	6.77	1.33	1.25
1	M	264	GLU	CD-OE2	6.77	1.33	1.25
1	F	40	GLU	CD-OE1	6.77	1.33	1.25
1	C	681	GLU	CD-OE2	6.77	1.33	1.25
1	M	117	GLU	CD-OE2	6.77	1.33	1.25
1	O	40	GLU	CD-OE1	6.76	1.33	1.25
1	I	667	GLU	CD-OE2	6.76	1.33	1.25
1	K	80	GLU	CD-OE2	6.76	1.33	1.25
1	O	358	GLU	CD-OE2	6.75	1.33	1.25
1	O	689	GLU	CD-OE2	6.74	1.33	1.25
1	H	181	GLU	CD-OE1	6.74	1.33	1.25
1	A	338	GLU	CD-OE2	6.73	1.33	1.25
1	B	67	GLU	CD-OE2	6.73	1.33	1.25
1	F	637	GLU	CD-OE1	6.73	1.33	1.25
1	O	934	GLU	CD-OE2	6.73	1.33	1.25
1	C	326	GLU	CD-OE2	6.73	1.33	1.25
1	N	40	GLU	CD-OE2	6.72	1.33	1.25
1	F	243	GLU	CD-OE1	6.72	1.33	1.25
1	H	681	GLU	CD-OE2	6.71	1.33	1.25
1	B	40	GLU	CD-OE2	6.71	1.33	1.25
1	A	304	GLU	CD-OE2	6.70	1.33	1.25
1	F	681	GLU	CD-OE1	6.70	1.33	1.25
1	B	198	GLU	CD-OE2	6.70	1.33	1.25
1	M	75	GLU	CD-OE2	6.70	1.33	1.25
1	C	893	GLU	CD-OE2	6.69	1.33	1.25
1	B	487	GLU	CD-OE2	6.69	1.33	1.25
1	D	358	GLU	CD-OE2	6.68	1.32	1.25
1	F	797	GLU	CD-OE2	6.68	1.33	1.25
1	N	744	GLU	CD-OE2	6.68	1.33	1.25
1	G	681	GLU	CD-OE1	6.68	1.32	1.25
1	H	198	GLU	CD-OE2	6.68	1.32	1.25
1	P	710	GLU	CD-OE2	6.68	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	75	GLU	CD-OE1	6.67	1.32	1.25
1	H	17	GLU	CD-OE1	6.67	1.32	1.25
1	D	969	GLU	CD-OE2	6.67	1.32	1.25
1	K	75	GLU	CD-OE2	6.67	1.32	1.25
1	K	136	GLU	CD-OE2	6.66	1.32	1.25
1	K	369	GLU	CD-OE1	6.66	1.32	1.25
1	B	808	GLU	CD-OE2	6.66	1.32	1.25
1	H	969	GLU	CD-OE2	6.66	1.32	1.25
1	I	681	GLU	CD-OE2	6.65	1.32	1.25
1	L	580	GLU	CD-OE1	6.65	1.32	1.25
1	H	80	GLU	CD-OE2	6.65	1.32	1.25
1	O	438	GLU	CD-OE2	6.65	1.32	1.25
1	M	529	GLU	CD-OE2	6.64	1.32	1.25
1	D	819	GLU	CD-OE2	6.63	1.32	1.25
1	O	684	GLU	CD-OE2	6.62	1.32	1.25
1	N	358	GLU	CD-OE1	6.62	1.32	1.25
1	O	580	GLU	CD-OE2	6.62	1.32	1.25
1	D	314	GLU	CD-OE2	6.62	1.32	1.25
1	H	338	GLU	CD-OE2	6.62	1.32	1.25
1	J	71	GLU	CD-OE2	6.61	1.32	1.25
1	G	819	GLU	CD-OE1	6.61	1.32	1.25
1	J	136	GLU	CD-OE2	6.61	1.32	1.25
1	P	689	GLU	CD-OE2	6.61	1.32	1.25
1	I	893	GLU	CD-OE2	6.60	1.32	1.25
1	J	681	GLU	CD-OE2	6.60	1.32	1.25
1	P	871	GLU	CD-OE1	6.59	1.32	1.25
1	B	264	GLU	CD-OE2	6.59	1.32	1.25
1	G	277	GLU	CD-OE2	6.59	1.32	1.25
1	K	641	GLU	CD-OE2	6.58	1.32	1.25
1	K	338	GLU	CD-OE1	6.58	1.32	1.25
1	G	338	GLU	CD-OE1	6.58	1.32	1.25
1	K	819	GLU	CD-OE1	6.57	1.32	1.25
1	H	40	GLU	CD-OE2	6.57	1.32	1.25
1	M	369	GLU	CD-OE2	6.57	1.32	1.25
1	M	40	GLU	CD-OE2	6.57	1.32	1.25
1	M	943	GLU	CD-OE1	6.57	1.32	1.25
1	B	969	GLU	CD-OE2	6.57	1.32	1.25
1	A	934	GLU	CD-OE2	6.56	1.32	1.25
1	J	117	GLU	CD-OE2	6.56	1.32	1.25
1	N	684	GLU	CD-OE2	6.56	1.32	1.25
1	A	334	GLU	CD-OE2	6.56	1.32	1.25
1	B	75	GLU	CD-OE1	6.55	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	277	GLU	CD-OE2	6.55	1.32	1.25
1	I	537	GLU	CD-OE2	6.55	1.32	1.25
1	J	980	GLU	CD-OE2	6.55	1.32	1.25
1	P	181	GLU	CD-OE1	6.55	1.32	1.25
1	H	710	GLU	CD-OE2	6.55	1.32	1.25
1	G	797	GLU	CD-OE2	6.54	1.32	1.25
1	A	136	GLU	CD-OE2	6.54	1.32	1.25
1	O	131	GLU	CD-OE1	6.54	1.32	1.25
1	F	277	GLU	CD-OE2	6.54	1.32	1.25
1	H	819	GLU	CD-OE1	6.53	1.32	1.25
1	H	304	GLU	CD-OE2	6.53	1.32	1.25
1	H	296	GLU	CD-OE2	6.53	1.32	1.25
1	O	80	GLU	CD-OE2	6.52	1.32	1.25
1	P	117	GLU	CD-OE2	6.52	1.32	1.25
1	E	684	GLU	CD-OE2	6.52	1.32	1.25
1	G	75	GLU	CD-OE1	6.52	1.32	1.25
1	J	131	GLU	CD-OE2	6.52	1.32	1.25
1	E	710	GLU	CD-OE2	6.51	1.32	1.25
1	F	750	GLU	CD-OE1	6.51	1.32	1.25
1	G	170	GLU	CD-OE2	6.51	1.32	1.25
1	I	243	GLU	CD-OE1	6.51	1.32	1.25
1	P	369	GLU	CD-OE1	6.51	1.32	1.25
1	C	117	GLU	CD-OE2	6.51	1.32	1.25
1	F	819	GLU	CD-OE1	6.51	1.32	1.25
1	N	131	GLU	CD-OE2	6.51	1.32	1.25
1	M	508	GLU	CD-OE1	6.50	1.32	1.25
1	D	871	GLU	CD-OE1	6.50	1.32	1.25
1	D	724	GLU	CD-OE2	6.50	1.32	1.25
1	I	508	GLU	CD-OE1	6.50	1.32	1.25
1	L	980	GLU	CD-OE2	6.49	1.32	1.25
1	N	797	GLU	CD-OE2	6.49	1.32	1.25
1	A	689	GLU	CD-OE2	6.48	1.32	1.25
1	F	724	GLU	CD-OE2	6.48	1.32	1.25
1	I	241	GLU	CD-OE1	6.48	1.32	1.25
1	G	744	GLU	CD-OE2	6.47	1.32	1.25
1	O	750	GLU	CD-OE2	6.47	1.32	1.25
1	B	710	GLU	CD-OE2	6.47	1.32	1.25
1	J	170	GLU	CD-OE2	6.46	1.32	1.25
1	M	808	GLU	CD-OE2	6.46	1.32	1.25
1	O	117	GLU	CD-OE2	6.46	1.32	1.25
1	P	249	GLU	CD-OE1	6.46	1.32	1.25
1	I	131	GLU	CD-OE1	6.45	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	41	GLU	CD-OE2	6.45	1.32	1.25
1	A	181	GLU	CD-OE1	6.45	1.32	1.25
1	I	338	GLU	CD-OE2	6.45	1.32	1.25
1	F	296	GLU	CD-OE2	6.44	1.32	1.25
1	I	80	GLU	CD-OE2	6.44	1.32	1.25
1	H	934	GLU	CD-OE2	6.43	1.32	1.25
1	J	943	GLU	CD-OE1	6.43	1.32	1.25
1	O	281	GLU	CD-OE2	6.43	1.32	1.25
1	O	797	GLU	CD-OE2	6.43	1.32	1.25
1	B	689	GLU	CD-OE2	6.43	1.32	1.25
1	E	281	GLU	CD-OE2	6.42	1.32	1.25
1	E	296	GLU	CD-OE2	6.42	1.32	1.25
1	H	797	GLU	CD-OE2	6.42	1.32	1.25
1	M	487	GLU	CD-OE2	6.42	1.32	1.25
1	N	580	GLU	CD-OE2	6.42	1.32	1.25
1	O	243	GLU	CD-OE1	6.42	1.32	1.25
1	D	80	GLU	CD-OE2	6.42	1.32	1.25
1	I	750	GLU	CD-OE2	6.42	1.32	1.25
1	D	684	GLU	CD-OE2	6.41	1.32	1.25
1	G	296	GLU	CD-OE2	6.41	1.32	1.25
1	P	40	GLU	CD-OE1	6.41	1.32	1.25
1	E	819	GLU	CD-OE1	6.41	1.32	1.25
1	I	580	GLU	CD-OE2	6.41	1.32	1.25
1	M	136	GLU	CD-OE2	6.41	1.32	1.25
1	P	241	GLU	CD-OE1	6.41	1.32	1.25
1	C	314	GLU	CD-OE2	6.40	1.32	1.25
1	M	650	GLU	CD-OE1	6.40	1.32	1.25
1	P	304	GLU	CD-OE2	6.39	1.32	1.25
1	C	637	GLU	CD-OE2	6.39	1.32	1.25
1	D	296	GLU	CD-OE2	6.38	1.32	1.25
1	B	537	GLU	CD-OE1	-6.38	1.18	1.25
1	A	40	GLU	CD-OE1	6.37	1.32	1.25
1	P	724	GLU	CD-OE2	6.37	1.32	1.25
1	K	314	GLU	CD-OE2	6.36	1.32	1.25
1	C	943	GLU	CD-OE1	6.36	1.32	1.25
1	C	281	GLU	CD-OE2	6.36	1.32	1.25
1	F	689	GLU	CD-OE2	6.36	1.32	1.25
1	K	750	GLU	CD-OE2	6.36	1.32	1.25
1	A	438	GLU	CD-OE2	6.35	1.32	1.25
1	B	314	GLU	CD-OE1	6.35	1.32	1.25
1	B	580	GLU	CD-OE2	6.35	1.32	1.25
1	M	296	GLU	CD-OE2	6.35	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	198	GLU	CD-OE2	6.35	1.32	1.25
1	P	75	GLU	CD-OE1	6.34	1.32	1.25
1	B	461	GLU	CD-OE2	6.34	1.32	1.25
1	O	170	GLU	CD-OE2	6.34	1.32	1.25
1	A	249	GLU	CD-OE2	6.33	1.32	1.25
1	M	819	GLU	CD-OE1	6.33	1.32	1.25
1	L	508	GLU	CD-OE1	6.33	1.32	1.25
1	C	170	GLU	CD-OE2	6.33	1.32	1.25
1	C	969	GLU	CD-OE2	6.32	1.32	1.25
1	M	750	GLU	CD-OE2	6.32	1.32	1.25
1	K	326	GLU	CD-OE2	6.31	1.32	1.25
1	A	724	GLU	CD-OE2	6.31	1.32	1.25
1	A	744	GLU	CD-OE2	6.31	1.32	1.25
1	K	264	GLU	CD-OE2	6.31	1.32	1.25
1	B	324	GLU	CD-OE1	6.31	1.32	1.25
1	G	117	GLU	CD-OE2	6.30	1.32	1.25
1	P	170	GLU	CD-OE2	6.30	1.32	1.25
1	P	198	GLU	CD-OE2	6.30	1.32	1.25
1	G	641	GLU	CD-OE2	6.30	1.32	1.25
1	E	80	GLU	CD-OE2	6.30	1.32	1.25
1	G	198	GLU	CD-OE2	6.29	1.32	1.25
1	N	281	GLU	CD-OE2	6.29	1.32	1.25
1	I	684	GLU	CD-OE2	6.28	1.32	1.25
1	O	296	GLU	CD-OE2	6.28	1.32	1.25
1	D	181	GLU	CD-OE1	6.28	1.32	1.25
1	M	67	GLU	CD-OE2	6.28	1.32	1.25
1	E	249	GLU	CD-OE2	6.28	1.32	1.25
1	H	689	GLU	CD-OE1	6.28	1.32	1.25
1	A	819	GLU	CD-OE1	6.28	1.32	1.25
1	K	744	GLU	CD-OE2	6.28	1.32	1.25
1	H	667	GLU	CD-OE2	6.27	1.32	1.25
1	D	537	GLU	CD-OE1	-6.27	1.18	1.25
1	O	41	GLU	CD-OE2	6.27	1.32	1.25
1	G	324	GLU	CD-OE1	6.27	1.32	1.25
1	A	75	GLU	CD-OE1	6.27	1.32	1.25
1	G	438	GLU	CD-OE1	-6.26	1.18	1.25
1	G	525	SER	CB-OG	6.26	1.50	1.42
1	I	181	GLU	CD-OE2	6.26	1.32	1.25
1	G	17	GLU	CD-OE2	6.26	1.32	1.25
1	N	57	GLU	CD-OE1	6.26	1.32	1.25
1	A	17	GLU	CD-OE2	6.25	1.32	1.25
1	O	943	GLU	CD-OE1	6.24	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	710	GLU	CD-OE2	6.23	1.32	1.25
1	A	969	GLU	CD-OE2	6.23	1.32	1.25
1	B	338	GLU	CD-OE1	6.23	1.32	1.25
1	B	684	GLU	CD-OE2	6.23	1.32	1.25
1	B	438	GLU	CD-OE2	6.22	1.32	1.25
1	D	461	GLU	CD-OE2	6.22	1.32	1.25
1	J	1006	GLU	CD-OE2	6.22	1.32	1.25
1	N	819	GLU	CD-OE1	6.22	1.32	1.25
1	B	681	GLU	CD-OE2	6.22	1.32	1.25
1	O	57	GLU	CD-OE1	6.22	1.32	1.25
1	M	131	GLU	CD-OE2	6.22	1.32	1.25
1	F	893	GLU	CD-OE2	6.21	1.32	1.25
1	K	529	GLU	CD-OE1	6.21	1.32	1.25
1	P	681	GLU	CD-OE2	6.21	1.32	1.25
1	J	314	GLU	CD-OE2	6.21	1.32	1.25
1	D	681	GLU	CD-OE2	6.20	1.32	1.25
1	E	641	GLU	CD-OE2	6.20	1.32	1.25
1	J	338	GLU	CD-OE1	6.20	1.32	1.25
1	B	41	GLU	CD-OE2	6.20	1.32	1.25
1	M	416	GLU	CD-OE1	6.19	1.32	1.25
1	D	369	GLU	CD-OE1	6.19	1.32	1.25
1	K	1006	GLU	CD-OE2	6.19	1.32	1.25
1	O	71	GLU	CD-OE2	6.19	1.32	1.25
1	D	508	GLU	CD-OE1	6.19	1.32	1.25
1	E	243	GLU	CD-OE1	6.18	1.32	1.25
1	J	819	GLU	CD-OE1	6.18	1.32	1.25
1	N	264	GLU	CD-OE2	6.18	1.32	1.25
1	G	461	GLU	CD-OE2	6.16	1.32	1.25
1	J	508	GLU	CD-OE1	6.16	1.32	1.25
1	A	296	GLU	CD-OE2	6.16	1.32	1.25
1	C	689	GLU	CD-OE2	6.16	1.32	1.25
1	K	131	GLU	CD-OE2	6.16	1.32	1.25
1	C	75	GLU	CD-OE2	6.16	1.32	1.25
1	I	41	GLU	CD-OE2	6.15	1.32	1.25
1	L	893	GLU	CD-OE2	6.15	1.32	1.25
1	P	537	GLU	CD-OE2	6.15	1.32	1.25
1	L	797	GLU	CD-OE2	6.15	1.32	1.25
1	M	871	GLU	CD-OE1	6.15	1.32	1.25
1	O	819	GLU	CD-OE1	6.15	1.32	1.25
1	B	296	GLU	CD-OE2	6.14	1.32	1.25
1	E	117	GLU	CD-OE2	6.14	1.32	1.25
1	P	438	GLU	CD-OE2	6.14	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	304	GLU	CD-OE2	6.14	1.32	1.25
1	G	808	GLU	CD-OE2	6.14	1.32	1.25
1	A	710	GLU	CD-OE2	6.13	1.32	1.25
1	D	67	GLU	CD-OE2	6.13	1.32	1.25
1	O	198	GLU	CD-OE2	6.13	1.32	1.25
1	A	241	GLU	CD-OE1	6.13	1.32	1.25
1	H	264	GLU	CD-OE2	6.13	1.32	1.25
1	J	797	GLU	CD-OE2	6.12	1.32	1.25
1	C	529	GLU	CD-OE2	6.12	1.32	1.25
1	A	684	GLU	CD-OE2	6.11	1.32	1.25
1	L	969	GLU	CD-OE2	6.11	1.32	1.25
1	O	264	GLU	CD-OE2	6.11	1.32	1.25
1	M	57	GLU	CD-OE1	6.10	1.32	1.25
1	L	40	GLU	CD-OE2	6.10	1.32	1.25
1	E	969	GLU	CD-OE2	6.10	1.32	1.25
1	F	249	GLU	CD-OE2	6.10	1.32	1.25
1	E	304	GLU	CD-OE2	6.10	1.32	1.25
1	M	904	GLU	CD-OE1	6.10	1.32	1.25
1	C	338	GLU	CD-OE1	6.09	1.32	1.25
1	F	264	GLU	CD-OE2	6.09	1.32	1.25
1	I	57	GLU	CD-OE1	6.09	1.32	1.25
1	D	893	GLU	CD-OE2	6.09	1.32	1.25
1	B	80	GLU	CD-OE2	6.08	1.32	1.25
1	E	934	GLU	CD-OE2	6.08	1.32	1.25
1	F	416	GLU	CD-OE1	6.08	1.32	1.25
1	E	369	GLU	CD-OE1	6.08	1.32	1.25
1	I	819	GLU	CD-OE1	6.08	1.32	1.25
1	G	57	GLU	CD-OE1	6.07	1.32	1.25
1	O	650	GLU	CD-OE1	6.07	1.32	1.25
1	M	438	GLU	CD-OE2	6.07	1.32	1.25
1	P	334	GLU	CD-OE2	6.07	1.32	1.25
1	L	681	GLU	CD-OE2	6.06	1.32	1.25
1	G	334	GLU	CD-OE2	6.05	1.32	1.25
1	K	797	GLU	CD-OE2	6.05	1.32	1.25
1	A	80	GLU	CD-OE2	6.05	1.32	1.25
1	D	979	GLU	CD-OE2	6.05	1.32	1.25
1	E	808	GLU	CD-OE2	6.05	1.32	1.25
1	M	277	GLU	CD-OE2	6.05	1.32	1.25
1	D	416	GLU	CD-OE1	6.04	1.32	1.25
1	N	710	GLU	CD-OE2	6.04	1.32	1.25
1	O	744	GLU	CD-OE2	6.04	1.32	1.25
1	K	619	GLU	CD-OE1	6.04	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	808	GLU	CD-OE2	6.04	1.32	1.25
1	I	710	GLU	CD-OE2	6.03	1.32	1.25
1	M	243	GLU	CD-OE1	6.03	1.32	1.25
1	P	324	GLU	CD-OE2	6.03	1.32	1.25
1	M	198	GLU	CD-OE2	6.03	1.32	1.25
1	K	170	GLU	CD-OE2	6.02	1.32	1.25
1	O	326	GLU	CD-OE2	6.02	1.32	1.25
1	J	438	GLU	CD-OE2	6.02	1.32	1.25
1	D	243	GLU	CD-OE1	6.02	1.32	1.25
1	O	979	GLU	CD-OE2	6.02	1.32	1.25
1	I	1006	GLU	CD-OE2	6.01	1.32	1.25
1	P	487	GLU	CD-OE2	6.01	1.32	1.25
1	I	324	GLU	CD-OE2	6.01	1.32	1.25
1	F	980	GLU	CD-OE2	6.01	1.32	1.25
1	P	797	GLU	CD-OE2	6.00	1.32	1.25
1	C	724	GLU	CD-OE2	6.00	1.32	1.25
1	F	117	GLU	CD-OE2	6.00	1.32	1.25
1	G	637	GLU	CD-OE1	6.00	1.32	1.25
1	K	198	GLU	CD-OE2	6.00	1.32	1.25
1	B	667	GLU	CD-OE2	6.00	1.32	1.25
1	G	67	GLU	CD-OE2	5.99	1.32	1.25
1	J	41	GLU	CD-OE2	5.99	1.32	1.25
1	D	324	GLU	CD-OE2	5.98	1.32	1.25
1	D	650	GLU	CD-OE1	5.98	1.32	1.25
1	O	537	GLU	CD-OE2	5.98	1.32	1.25
1	H	871	GLU	CD-OE2	5.98	1.32	1.25
1	K	808	GLU	CD-OE2	5.98	1.32	1.25
1	K	684	GLU	CD-OE2	5.98	1.32	1.25
1	K	893	GLU	CD-OE2	5.97	1.32	1.25
1	O	461	GLU	CD-OE1	5.97	1.32	1.25
1	A	243	GLU	CD-OE1	5.97	1.32	1.25
1	H	979	GLU	CD-OE2	5.97	1.32	1.25
1	D	580	GLU	CD-OE2	5.97	1.32	1.25
1	A	980	GLU	CD-OE2	5.97	1.32	1.25
1	J	461	GLU	CD-OE2	5.97	1.32	1.25
1	H	438	GLU	CD-OE2	5.97	1.32	1.25
1	M	969	GLU	CD-OE2	5.96	1.32	1.25
1	M	314	GLU	CD-OE2	5.96	1.32	1.25
1	D	980	GLU	CD-OE2	5.96	1.32	1.25
1	I	17	GLU	CD-OE2	5.96	1.32	1.25
1	B	724	GLU	CD-OE2	5.95	1.32	1.25
1	G	438	GLU	CD-OE2	5.95	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	641	GLU	CD-OE2	5.95	1.32	1.25
1	P	412	GLU	CD-OE1	5.95	1.32	1.25
1	I	943	GLU	CD-OE1	5.95	1.32	1.25
1	J	57	GLU	CD-OE1	5.94	1.32	1.25
1	L	71	GLU	CD-OE2	5.94	1.32	1.25
1	M	170	GLU	CD-OE2	5.94	1.32	1.25
1	P	819	GLU	CD-OE1	5.94	1.32	1.25
1	O	487	GLU	CD-OE2	5.93	1.32	1.25
1	K	969	GLU	CD-OE2	5.93	1.32	1.25
1	A	41	GLU	CD-OE2	5.93	1.32	1.25
1	C	304	GLU	CD-OE2	5.93	1.32	1.25
1	N	681	GLU	CD-OE2	5.92	1.32	1.25
1	E	181	GLU	CD-OE1	5.92	1.32	1.25
1	K	871	GLU	CD-OE1	5.92	1.32	1.25
1	P	667	GLU	CD-OE1	5.92	1.32	1.25
1	L	979	GLU	CD-OE2	5.92	1.32	1.25
1	I	40	GLU	CD-OE1	5.91	1.32	1.25
1	B	508	GLU	CD-OE1	5.91	1.32	1.25
1	O	67	GLU	CD-OE2	5.91	1.32	1.25
1	E	198	GLU	CD-OE2	5.90	1.32	1.25
1	E	314	GLU	CD-OE2	5.90	1.32	1.25
1	E	338	GLU	CD-OE2	5.90	1.32	1.25
1	O	416	GLU	CD-OE1	5.90	1.32	1.25
1	G	241	GLU	CD-OE1	5.89	1.32	1.25
1	J	241	GLU	CD-OE2	5.88	1.32	1.25
1	G	80	GLU	CD-OE2	5.88	1.32	1.25
1	L	667	GLU	CD-OE2	5.88	1.32	1.25
1	P	243	GLU	CD-OE1	5.88	1.32	1.25
1	J	684	GLU	CD-OE2	5.88	1.32	1.25
1	I	304	GLU	CD-OE2	5.87	1.32	1.25
1	C	80	GLU	CD-OE2	5.87	1.32	1.25
1	F	537	GLU	CD-OE2	5.87	1.32	1.25
1	L	750	GLU	CD-OE2	5.87	1.32	1.25
1	C	904	GLU	CD-OE1	5.86	1.32	1.25
1	F	710	GLU	CD-OE2	5.85	1.32	1.25
1	P	461	GLU	CD-OE1	5.84	1.32	1.25
1	N	871	GLU	CD-OE1	5.84	1.32	1.25
1	P	943	GLU	CD-OE1	5.83	1.32	1.25
1	B	281	GLU	CD-OE1	-5.82	1.19	1.25
1	J	529	GLU	CD-OE1	5.82	1.32	1.25
1	A	131	GLU	CD-OE2	5.82	1.32	1.25
1	C	243	GLU	CD-OE1	5.82	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	57	GLU	CD-OE2	5.82	1.32	1.25
1	G	667	GLU	CD-OE2	5.82	1.32	1.25
1	N	893	GLU	CD-OE2	5.81	1.32	1.25
1	C	296	GLU	CD-OE2	5.81	1.32	1.25
1	P	67	GLU	CD-OE2	5.81	1.32	1.25
1	J	40	GLU	CD-OE1	5.81	1.32	1.25
1	A	117	GLU	CD-OE2	5.80	1.32	1.25
1	B	334	GLU	CD-OE2	5.80	1.32	1.25
1	A	416	GLU	CD-OE1	5.80	1.32	1.25
1	I	264	GLU	CD-OE2	5.80	1.32	1.25
1	G	326	GLU	CD-OE2	5.80	1.32	1.25
1	G	724	GLU	CD-OE2	5.79	1.32	1.25
1	B	57	GLU	CD-OE2	5.79	1.32	1.25
1	G	369	GLU	CD-OE1	5.79	1.32	1.25
1	E	334	GLU	CD-OE1	5.78	1.32	1.25
1	C	41	GLU	CD-OE2	5.78	1.32	1.25
1	O	893	GLU	CD-OE1	5.78	1.32	1.25
1	H	684	GLU	CD-OE2	5.77	1.32	1.25
1	D	438	GLU	CD-OE2	5.77	1.31	1.25
1	L	637	GLU	CD-OE1	5.77	1.31	1.25
1	C	438	GLU	CD-OE2	5.76	1.31	1.25
1	G	750	GLU	CD-OE2	5.76	1.31	1.25
1	H	57	GLU	CD-OE2	5.76	1.31	1.25
1	L	304	GLU	CD-OE2	5.76	1.31	1.25
1	M	641	GLU	CD-OE2	5.76	1.31	1.25
1	A	264	GLU	CD-OE2	5.76	1.31	1.25
1	P	338	GLU	CD-OE2	5.75	1.31	1.25
1	P	893	GLU	CD-OE2	5.75	1.31	1.25
1	B	904	GLU	CD-OE1	5.75	1.31	1.25
1	M	334	GLU	CD-OE1	5.75	1.31	1.25
1	K	689	GLU	CD-OE2	5.74	1.31	1.25
1	I	904	GLU	CD-OE1	5.74	1.31	1.25
1	J	296	GLU	CD-OE2	5.74	1.31	1.25
1	L	438	GLU	CD-OE2	5.74	1.31	1.25
1	I	67	GLU	CD-OE2	5.74	1.31	1.25
1	G	304	GLU	CD-OE2	5.74	1.31	1.25
1	E	264	GLU	CD-OE2	5.73	1.31	1.25
1	D	637	GLU	CD-OE2	5.72	1.31	1.25
1	H	943	GLU	CD-OE1	5.72	1.31	1.25
1	K	667	GLU	CD-OE2	5.72	1.31	1.25
1	O	17	GLU	CD-OE1	5.72	1.31	1.25
1	N	67	GLU	CD-OE2	5.71	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	314	GLU	CD-OE2	5.71	1.31	1.25
1	K	724	GLU	CD-OE2	5.71	1.31	1.25
1	N	650	GLU	CD-OE1	5.71	1.31	1.25
1	O	241	GLU	CD-OE2	5.71	1.31	1.25
1	G	969	GLU	CD-OE2	5.70	1.31	1.25
1	D	487	GLU	CD-OE2	5.70	1.31	1.25
1	G	264	GLU	CD-OE2	5.70	1.31	1.25
1	A	667	GLU	CD-OE2	5.69	1.31	1.25
1	M	893	GLU	CD-OE2	5.69	1.31	1.25
1	O	277	GLU	CD-OE2	5.69	1.31	1.25
1	F	338	GLU	CD-OE2	5.69	1.31	1.25
1	P	808	GLU	CD-OE2	5.69	1.31	1.25
1	M	41	GLU	CD-OE2	5.68	1.31	1.25
1	P	969	GLU	CD-OE2	5.68	1.31	1.25
1	F	650	GLU	CD-OE1	5.68	1.31	1.25
1	J	710	GLU	CD-OE1	5.67	1.31	1.25
1	P	80	GLU	CD-OE2	5.67	1.31	1.25
1	O	969	GLU	CD-OE2	5.67	1.31	1.25
1	G	943	GLU	CD-OE1	5.66	1.31	1.25
1	M	1006	GLU	CD-OE2	5.66	1.31	1.25
1	H	241	GLU	CD-OE1	5.66	1.31	1.25
1	I	619	GLU	CD-OE2	-5.65	1.19	1.25
1	C	416	GLU	CD-OE1	5.65	1.31	1.25
1	D	117	GLU	CD-OE2	5.65	1.31	1.25
1	C	667	GLU	CD-OE2	5.65	1.31	1.25
1	L	710	GLU	CD-OE2	5.65	1.31	1.25
1	M	338	GLU	CD-OE2	5.64	1.31	1.25
1	B	241	GLU	CD-OE2	5.63	1.31	1.25
1	K	334	GLU	CD-OE2	5.62	1.31	1.25
1	K	117	GLU	CD-OE2	5.62	1.31	1.25
1	C	537	GLU	CD-OE1	-5.62	1.19	1.25
1	F	969	GLU	CD-OE2	5.62	1.31	1.25
1	N	241	GLU	CD-OE1	5.61	1.31	1.25
1	J	243	GLU	CD-OE1	5.61	1.31	1.25
1	N	17	GLU	CD-OE2	5.61	1.31	1.25
1	C	181	GLU	CD-OE1	5.61	1.31	1.25
1	D	334	GLU	CD-OE2	5.59	1.31	1.25
1	H	416	GLU	CD-OE1	5.59	1.31	1.25
1	I	334	GLU	CD-OE2	5.59	1.31	1.25
1	E	871	GLU	CD-OE1	5.58	1.31	1.25
1	C	461	GLU	CD-OE2	5.57	1.31	1.25
1	H	537	GLU	CD-OE2	5.57	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	41	GLU	CD-OE2	5.56	1.31	1.25
1	K	277	GLU	CD-OE2	5.56	1.31	1.25
1	N	369	GLU	CD-OE2	5.56	1.31	1.25
1	A	369	GLU	CD-OE1	5.56	1.31	1.25
1	A	641	GLU	CD-OE2	5.55	1.31	1.25
1	F	943	GLU	CD-OE1	5.55	1.31	1.25
1	A	750	GLU	CD-OE2	5.55	1.31	1.25
1	J	181	GLU	CD-OE1	5.55	1.31	1.25
1	K	637	GLU	CD-OE1	5.55	1.31	1.25
1	I	369	GLU	CD-OE1	5.55	1.31	1.25
1	E	67	GLU	CD-OE2	5.54	1.31	1.25
1	B	934	GLU	CD-OE2	5.54	1.31	1.25
1	G	243	GLU	CD-OE1	5.53	1.31	1.25
1	A	979	GLU	CD-OE2	5.53	1.31	1.25
1	I	170	GLU	CD-OE2	5.52	1.31	1.25
1	F	1006	GLU	CD-OE2	5.52	1.31	1.25
1	L	296	GLU	CD-OE2	5.52	1.31	1.25
1	O	808	GLU	CD-OE2	5.52	1.31	1.25
1	E	750	GLU	CD-OE2	5.51	1.31	1.25
1	B	281	GLU	CD-OE2	5.51	1.31	1.25
1	H	980	GLU	CD-OE2	5.51	1.31	1.25
1	N	117	GLU	CD-OE2	5.50	1.31	1.25
1	I	438	GLU	CD-OE2	5.50	1.31	1.25
1	L	243	GLU	CD-OE1	5.50	1.31	1.25
1	I	487	GLU	CD-OE2	5.49	1.31	1.25
1	B	243	GLU	CD-OE1	5.49	1.31	1.25
1	G	41	GLU	CD-OE2	5.49	1.31	1.25
1	M	710	GLU	CD-OE2	5.49	1.31	1.25
1	O	324	GLU	CD-OE1	5.48	1.31	1.25
1	P	934	GLU	CD-OE2	5.48	1.31	1.25
1	F	667	GLU	CD-OE2	5.48	1.31	1.25
1	M	667	GLU	CD-OE2	5.46	1.31	1.25
1	D	249	GLU	CD-OE2	5.46	1.31	1.25
1	L	324	GLU	CD-OE2	5.46	1.31	1.25
1	E	461	GLU	CD-OE1	5.45	1.31	1.25
1	N	412	GLU	CD-OE2	-5.45	1.19	1.25
1	H	170	GLU	CD-OE2	5.45	1.31	1.25
1	F	324	GLU	CD-OE2	-5.44	1.19	1.25
1	K	304	GLU	CD-OE2	5.44	1.31	1.25
1	A	57	GLU	CD-OE2	5.44	1.31	1.25
1	E	508	GLU	CD-OE1	5.44	1.31	1.25
1	L	369	GLU	CD-OE2	5.44	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	1006	GLU	CD-OE2	5.44	1.31	1.25
1	D	667	GLU	CD-OE2	5.43	1.31	1.25
1	A	170	GLU	CD-OE2	5.42	1.31	1.25
1	L	871	GLU	CD-OE1	5.42	1.31	1.25
1	J	334	GLU	CD-OE1	5.42	1.31	1.25
1	E	71	GLU	CD-OE2	5.42	1.31	1.25
1	J	304	GLU	CD-OE2	5.42	1.31	1.25
1	C	1006	GLU	CD-OE2	5.42	1.31	1.25
1	F	904	GLU	CD-OE1	5.42	1.31	1.25
1	L	904	GLU	CD-OE1	5.41	1.31	1.25
1	D	281	GLU	CD-OE2	5.41	1.31	1.25
1	D	797	GLU	CD-OE2	5.41	1.31	1.25
1	A	198	GLU	CD-OE1	-5.40	1.19	1.25
1	A	67	GLU	CD-OE2	5.40	1.31	1.25
1	C	619	GLU	CD-OE1	5.40	1.31	1.25
1	C	57	GLU	CD-OE2	5.39	1.31	1.25
1	L	461	GLU	CD-OE2	5.39	1.31	1.25
1	I	326	GLU	CD-OE2	5.39	1.31	1.25
1	I	296	GLU	CD-OE2	5.38	1.31	1.25
1	I	797	GLU	CD-OE2	5.38	1.31	1.25
1	L	17	GLU	CD-OE1	5.38	1.31	1.25
1	A	641	GLU	CD-OE1	-5.38	1.19	1.25
1	D	304	GLU	CD-OE2	5.38	1.31	1.25
1	H	281	GLU	CD-OE2	5.38	1.31	1.25
1	D	537	GLU	CD-OE2	5.37	1.31	1.25
1	F	871	GLU	CD-OE1	5.37	1.31	1.25
1	D	41	GLU	CD-OE2	5.37	1.31	1.25
1	C	871	GLU	CD-OE2	5.37	1.31	1.25
1	C	71	GLU	CD-OE2	5.36	1.31	1.25
1	E	637	GLU	CD-OE1	5.36	1.31	1.25
1	E	17	GLU	CD-OE1	5.35	1.31	1.25
1	K	461	GLU	CD-OE2	5.34	1.31	1.25
1	H	326	GLU	CD-OE2	5.34	1.31	1.25
1	C	537	GLU	CD-OE2	5.34	1.31	1.25
1	G	619	GLU	CD-OE1	5.34	1.31	1.25
1	J	979	GLU	CD-OE2	5.33	1.31	1.25
1	M	537	GLU	CD-OE2	5.33	1.31	1.25
1	K	438	GLU	CD-OE2	5.32	1.31	1.25
1	O	412	GLU	CD-OE1	5.32	1.31	1.25
1	K	67	GLU	CD-OE2	5.32	1.31	1.25
1	N	650	GLU	CD-OE2	-5.31	1.19	1.25
1	B	980	GLU	CD-OE2	5.31	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	369	GLU	CD-OE1	5.30	1.31	1.25
1	L	57	GLU	CD-OE2	5.30	1.31	1.25
1	H	67	GLU	CD-OE2	5.30	1.31	1.25
1	B	369	GLU	CD-OE1	5.29	1.31	1.25
1	H	71	GLU	CD-OE2	5.29	1.31	1.25
1	E	537	GLU	CD-OE2	5.29	1.31	1.25
1	L	170	GLU	CD-OE2	5.29	1.31	1.25
1	F	17	GLU	CD-OE1	5.28	1.31	1.25
1	N	80	GLU	CD-OE2	5.26	1.31	1.25
1	K	943	GLU	CD-OE1	5.25	1.31	1.25
1	H	808	GLU	CD-OE2	5.24	1.31	1.25
1	I	314	GLU	CD-OE2	5.23	1.31	1.25
1	I	641	GLU	CD-OE2	5.23	1.31	1.25
1	J	67	GLU	CD-OE2	5.23	1.31	1.25
1	F	529	GLU	CD-OE2	5.22	1.31	1.25
1	J	871	GLU	CD-OE1	5.22	1.31	1.25
1	F	324	GLU	CD-OE1	5.21	1.31	1.25
1	E	943	GLU	CD-OE1	5.21	1.31	1.25
1	C	750	GLU	CD-OE2	5.21	1.31	1.25
1	C	334	GLU	CD-OE2	5.20	1.31	1.25
1	N	314	GLU	CD-OE2	5.20	1.31	1.25
1	P	71	GLU	CD-OE2	5.19	1.31	1.25
1	P	281	GLU	CD-OE2	5.18	1.31	1.25
1	A	314	GLU	CD-OE2	5.17	1.31	1.25
1	G	529	GLU	CD-OE2	5.16	1.31	1.25
1	M	724	GLU	CD-OE2	5.16	1.31	1.25
1	O	641	GLU	CD-OE2	5.16	1.31	1.25
1	J	17	GLU	CD-OE1	5.15	1.31	1.25
1	L	412	GLU	CD-OE1	5.14	1.31	1.25
1	M	80	GLU	CD-OE2	5.14	1.31	1.25
1	P	264	GLU	CD-OE2	5.14	1.31	1.25
1	P	936	GLY	C-O	5.12	1.31	1.23
1	M	461	GLU	CD-OE2	5.12	1.31	1.25
1	I	416	GLU	CD-OE1	5.12	1.31	1.25
1	N	724	GLU	CD-OE2	5.12	1.31	1.25
1	I	943	GLU	CD-OE2	-5.11	1.20	1.25
1	L	934	GLU	CD-OE2	5.11	1.31	1.25
1	G	724	GLU	CD-OE1	-5.10	1.20	1.25
1	H	117	GLU	CD-OE2	5.10	1.31	1.25
1	D	170	GLU	CD-OE2	5.09	1.31	1.25
1	D	264	GLU	CD-OE2	5.09	1.31	1.25
1	L	487	GLU	CD-OE2	5.08	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	369	GLU	CD-OE2	5.08	1.31	1.25
1	N	641	GLU	CD-OE2	5.07	1.31	1.25
1	A	871	GLU	CD-OE2	5.07	1.31	1.25
1	B	871	GLU	CD-OE2	5.07	1.31	1.25
1	P	790	ASP	CG-OD2	5.07	1.37	1.25
1	H	641	GLU	CD-OE2	5.06	1.31	1.25
1	G	1006	GLU	CD-OE1	5.06	1.31	1.25
1	G	871	GLU	CD-OE2	5.06	1.31	1.25
1	N	637	GLU	CD-OE1	5.05	1.31	1.25
1	E	979	GLU	CD-OE2	5.04	1.31	1.25
1	K	41	GLU	CD-OE2	5.04	1.31	1.25
1	G	979	GLU	CD-OE2	5.04	1.31	1.25
1	L	338	GLU	CD-OE2	5.04	1.31	1.25
1	I	871	GLU	CD-OE2	5.04	1.31	1.25
1	B	641	GLU	CD-OE2	5.03	1.31	1.25
1	N	487	GLU	CD-OE2	5.03	1.31	1.25
1	E	170	GLU	CD-OE2	5.02	1.31	1.25
1	B	170	GLU	CD-OE2	5.02	1.31	1.25
1	K	934	GLU	CD-OE1	-5.02	1.20	1.25
1	N	750	GLU	CD-OE2	5.01	1.31	1.25
1	A	537	GLU	CD-OE2	5.01	1.31	1.25
1	H	334	GLU	CD-OE2	5.01	1.31	1.25
1	H	358	GLU	CD-OE2	5.01	1.31	1.25
1	L	943	GLU	CD-OE1	5.00	1.31	1.25

All (2223) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	881	ARG	NE-CZ-NH2	-14.45	113.08	120.30
1	B	166	ARG	NE-CZ-NH2	-14.23	113.19	120.30
1	N	561	ARG	NE-CZ-NH2	-14.06	113.27	120.30
1	L	425	ARG	NE-CZ-NH2	13.74	127.17	120.30
1	L	997	ASP	CB-CG-OD2	-13.64	106.02	118.30
1	O	166	ARG	NE-CZ-NH1	12.92	126.76	120.30
1	G	881	ARG	NE-CZ-NH2	-12.72	113.94	120.30
1	H	166	ARG	NE-CZ-NH2	-12.65	113.98	120.30
1	D	388	ARG	NE-CZ-NH1	12.24	126.42	120.30
1	B	973	ARG	NE-CZ-NH1	12.19	126.40	120.30
1	B	881	ARG	NE-CZ-NH2	-12.04	114.28	120.30
1	F	687	GLN	C-N-CD	-11.51	95.28	120.60
1	L	557	ARG	NE-CZ-NH1	11.44	126.02	120.30
1	N	561	ARG	NE-CZ-NH1	11.43	126.02	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	611	ARG	NE-CZ-NH1	11.40	126.00	120.30
1	L	938	ARG	NE-CZ-NH2	-11.34	114.63	120.30
1	C	282	ARG	NE-CZ-NH1	11.30	125.95	120.30
1	N	996	ASP	CB-CG-OD1	11.18	128.36	118.30
1	O	531	ARG	NE-CZ-NH1	11.02	125.81	120.30
1	E	161	TYR	CB-CG-CD2	-10.90	114.46	121.00
1	H	569	ASP	CB-CG-OD1	-10.76	108.62	118.30
1	E	425	ARG	NE-CZ-NH1	10.69	125.65	120.30
1	E	611	ARG	NE-CZ-NH1	10.67	125.63	120.30
1	O	166	ARG	NE-CZ-NH2	-10.65	114.98	120.30
1	G	52	ARG	NE-CZ-NH1	10.62	125.61	120.30
1	C	572	ASP	CB-CG-OD2	-10.52	108.83	118.30
1	H	938	ARG	NE-CZ-NH2	-10.52	115.04	120.30
1	H	204	ARG	NE-CZ-NH1	10.51	125.55	120.30
1	N	572	ASP	CB-CG-OD2	-10.49	108.86	118.30
1	P	938	ARG	NE-CZ-NH2	-10.45	115.08	120.30
1	A	333	ARG	NE-CZ-NH1	10.43	125.51	120.30
1	I	329	ASP	CB-CG-OD2	-10.36	108.97	118.30
1	A	329	ASP	CB-CG-OD2	-10.30	109.03	118.30
1	G	385	ASN	CB-CA-C	-10.27	89.87	110.40
1	H	591	ASP	CB-CG-OD2	-10.21	109.11	118.30
1	P	368	ASP	CB-CG-OD2	-10.16	109.16	118.30
1	J	809	ARG	NE-CZ-NH2	-10.12	115.24	120.30
1	O	210	ARG	NE-CZ-NH1	10.06	125.33	120.30
1	D	875	ASP	CB-CG-OD1	-10.03	109.27	118.30
1	I	166	ARG	NE-CZ-NH2	-9.98	115.31	120.30
1	J	594	ASP	CB-CG-OD2	-9.95	109.35	118.30
1	E	721	ARG	NE-CZ-NH2	-9.86	115.37	120.30
1	I	157	ARG	NE-CZ-NH1	9.85	125.22	120.30
1	J	507	ASP	CB-CG-OD2	-9.77	109.51	118.30
1	E	166	ARG	NE-CZ-NH2	-9.74	115.43	120.30
1	D	425	ARG	NE-CZ-NH1	9.72	125.16	120.30
1	C	446	ARG	NE-CZ-NH2	-9.66	115.47	120.30
1	E	161	TYR	CB-CG-CD1	9.64	126.79	121.00
1	F	183	ARG	NE-CZ-NH1	9.63	125.12	120.30
1	L	572	ASP	CB-CG-OD2	-9.60	109.66	118.30
1	C	746	ASP	CB-CG-OD2	-9.60	109.66	118.30
1	F	204	ARG	NE-CZ-NH1	9.59	125.10	120.30
1	P	352	ARG	NE-CZ-NH1	9.58	125.09	120.30
1	A	356	ARG	NE-CZ-NH1	9.58	125.09	120.30
1	H	255	ARG	NE-CZ-NH1	9.56	125.08	120.30
1	D	497	ASP	CB-CG-OD2	-9.55	109.70	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	375	ASP	CB-CG-OD2	-9.54	109.71	118.30
1	I	859	ASP	CB-CG-OD1	9.47	126.83	118.30
1	G	368	ASP	CB-CG-OD2	-9.39	109.84	118.30
1	L	790	ASP	CB-CG-OD2	-9.38	109.86	118.30
1	M	509	ASP	CB-CG-OD2	-9.35	109.88	118.30
1	C	190	ARG	NE-CZ-NH1	9.35	124.98	120.30
1	E	37	ARG	NE-CZ-NH1	9.35	124.97	120.30
1	B	473	ARG	NE-CZ-NH1	9.33	124.97	120.30
1	F	15	ASP	CB-CG-OD2	-9.32	109.91	118.30
1	I	429	ASP	CB-CG-OD2	-9.31	109.92	118.30
1	I	287	ASP	CB-CG-OD1	9.24	126.62	118.30
1	I	497	ASP	CB-CG-OD2	-9.19	110.03	118.30
1	O	509	ASP	CB-CG-OD2	-9.18	110.04	118.30
1	A	924	ASP	CB-CG-OD2	-9.17	110.05	118.30
1	D	755	ARG	NE-CZ-NH2	-9.16	115.72	120.30
1	H	881	ARG	NE-CZ-NH2	-9.16	115.72	120.30
1	J	166	ARG	NE-CZ-NH2	-9.14	115.73	120.30
1	M	630	ARG	NE-CZ-NH1	9.13	124.86	120.30
1	F	881	ARG	NE-CZ-NH2	-9.12	115.74	120.30
1	G	938	ARG	NE-CZ-NH1	9.12	124.86	120.30
1	J	201	ASP	CB-CG-OD2	-9.11	110.10	118.30
1	L	859	ASP	CB-CG-OD1	9.08	126.47	118.30
1	C	507	ASP	CB-CG-OD2	-9.07	110.13	118.30
1	P	164	ASP	CB-CG-OD2	-9.06	110.14	118.30
1	B	59	ARG	NE-CZ-NH2	-9.01	115.79	120.30
1	B	166	ARG	NE-CZ-NH1	8.99	124.80	120.30
1	F	193	ASP	CB-CG-OD2	-8.99	110.21	118.30
1	B	15	ASP	CB-CG-OD2	-8.97	110.23	118.30
1	B	594	ASP	CB-CG-OD2	-8.95	110.25	118.30
1	N	996	ASP	CB-CG-OD2	-8.94	110.25	118.30
1	A	428	ASP	CB-CG-OD2	-8.94	110.25	118.30
1	P	164	ASP	CB-CG-OD1	8.92	126.33	118.30
1	F	193	ASP	CB-CG-OD1	8.90	126.31	118.30
1	F	569	ASP	CB-CG-OD1	-8.88	110.31	118.30
1	G	881	ARG	NE-CZ-NH1	8.87	124.73	120.30
1	L	411	ASP	CB-CG-OD2	-8.87	110.32	118.30
1	D	201	ASP	CB-CG-OD2	-8.87	110.32	118.30
1	J	166	ARG	NE-CZ-NH1	8.86	124.73	120.30
1	C	224	ASP	CB-CG-OD1	-8.85	110.34	118.30
1	F	442	ARG	NE-CZ-NH1	8.82	124.71	120.30
1	A	352	ARG	NE-CZ-NH1	8.80	124.70	120.30
1	M	746	ASP	CB-CG-OD2	-8.79	110.39	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	424	ASN	CB-CA-C	-8.79	92.81	110.40
1	B	659	ASP	CB-CG-OD2	-8.77	110.41	118.30
1	J	987	ASP	CB-CG-OD1	8.76	126.18	118.30
1	G	594	ASP	CB-CG-OD2	-8.74	110.43	118.30
1	N	403	ASP	CB-CG-OD2	-8.74	110.43	118.30
1	F	859	ASP	CB-CG-OD1	8.71	126.14	118.30
1	K	859	ASP	CB-CG-OD1	8.69	126.12	118.30
1	C	507	ASP	CB-CG-OD1	8.69	126.12	118.30
1	O	996	ASP	CB-CG-OD2	-8.68	110.49	118.30
1	F	447	ASP	CB-CG-OD2	-8.67	110.50	118.30
1	G	403	ASP	CB-CG-OD2	-8.66	110.50	118.30
1	L	997	ASP	CB-CG-OD1	8.66	126.10	118.30
1	F	319	ASP	CB-CG-OD2	8.65	126.08	118.30
1	J	15	ASP	CB-CG-OD2	-8.64	110.53	118.30
1	M	166	ARG	NE-CZ-NH1	8.64	124.62	120.30
1	M	164	ASP	CB-CG-OD2	8.63	126.07	118.30
1	E	509	ASP	CB-CG-OD2	-8.62	110.54	118.30
1	H	951	TRP	N-CA-CB	8.62	126.11	110.60
1	A	909	ARG	NE-CZ-NH1	8.61	124.61	120.30
1	I	164	ASP	CB-CG-OD2	-8.58	110.58	118.30
1	F	598	ASP	CB-CG-OD2	8.57	126.02	118.30
1	C	954	ASP	CB-CG-OD1	-8.57	110.58	118.30
1	F	130	ASP	CB-CG-OD2	-8.56	110.59	118.30
1	L	561	ARG	NE-CZ-NH1	8.56	124.58	120.30
1	A	924	ASP	CB-CG-OD1	8.55	126.00	118.30
1	D	385	ASN	CB-CA-C	-8.55	93.31	110.40
1	L	561	ARG	NE-CZ-NH2	-8.54	116.03	120.30
1	B	130	ASP	CB-CG-OD1	8.54	125.99	118.30
1	I	507	ASP	CB-CG-OD2	-8.54	110.62	118.30
1	H	164	ASP	CB-CG-OD1	8.53	125.98	118.30
1	N	572	ASP	CB-CG-OD1	8.53	125.97	118.30
1	N	924	ASP	CB-CG-OD2	-8.52	110.63	118.30
1	J	973	ARG	NE-CZ-NH1	8.51	124.56	120.30
1	D	755	ARG	NE-CZ-NH1	8.51	124.55	120.30
1	M	909	ARG	NE-CZ-NH1	8.50	124.55	120.30
1	F	319	ASP	CB-CG-OD1	-8.50	110.65	118.30
1	F	479	ASP	CB-CG-OD1	8.50	125.95	118.30
1	J	828	ASP	CB-CG-OD1	-8.49	110.66	118.30
1	E	746	ASP	CB-CG-OD2	-8.49	110.66	118.30
1	L	204	ARG	NE-CZ-NH2	-8.47	116.06	120.30
1	F	746	ASP	CB-CG-OD2	-8.47	110.68	118.30
1	O	425	ARG	NE-CZ-NH1	8.46	124.53	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	166	ARG	NE-CZ-NH1	8.46	124.53	120.30
1	G	157	ARG	NE-CZ-NH2	-8.44	116.08	120.30
1	I	859	ASP	CB-CG-OD2	-8.44	110.70	118.30
1	J	509	ASP	CB-CG-OD1	8.44	125.90	118.30
1	L	954	ASP	CB-CG-OD2	-8.43	110.71	118.30
1	H	233	ASP	CB-CG-OD1	8.43	125.89	118.30
1	K	473	ARG	NE-CZ-NH1	8.43	124.51	120.30
1	H	329	ASP	CB-CG-OD2	-8.42	110.72	118.30
1	D	659	ASP	CB-CG-OD2	-8.42	110.72	118.30
1	C	5	ASP	CB-CG-OD2	-8.41	110.73	118.30
1	D	917	ARG	NE-CZ-NH1	8.39	124.49	120.30
1	H	796	SER	N-CA-CB	8.39	123.08	110.50
1	I	746	ASP	CB-CG-OD2	-8.38	110.75	118.30
1	B	368	ASP	CB-CG-OD1	-8.37	110.76	118.30
1	B	252	ASP	CB-CG-OD1	8.37	125.83	118.30
1	B	599	ARG	NE-CZ-NH1	8.37	124.48	120.30
1	H	385	ASN	CB-CA-C	-8.36	93.67	110.40
1	K	579	ASP	CB-CG-OD2	-8.36	110.78	118.30
1	M	497	ASP	CB-CG-OD2	-8.36	110.78	118.30
1	N	166	ARG	NE-CZ-NH2	-8.36	116.12	120.30
1	G	938	ARG	NE-CZ-NH2	-8.35	116.13	120.30
1	J	954	ASP	CB-CG-OD2	-8.34	110.79	118.30
1	I	447	ASP	CB-CG-OD2	-8.34	110.79	118.30
1	H	428	ASP	CB-CG-OD2	-8.32	110.81	118.30
1	I	329	ASP	CB-CG-OD1	8.32	125.78	118.30
1	K	96	ASP	CB-CG-OD2	-8.30	110.83	118.30
1	A	802	ASP	CB-CG-OD2	-8.28	110.85	118.30
1	B	569	ASP	CB-CG-OD1	-8.28	110.85	118.30
1	B	909	ARG	NE-CZ-NH1	8.28	124.44	120.30
1	I	492	ASP	CB-CG-OD2	-8.28	110.85	118.30
1	I	569	ASP	CB-CG-OD1	-8.27	110.85	118.30
1	L	509	ASP	CB-CG-OD2	-8.27	110.86	118.30
1	D	333	ARG	NE-CZ-NH1	8.27	124.43	120.30
1	K	917	ARG	NE-CZ-NH2	-8.26	116.17	120.30
1	A	802	ASP	CB-CG-OD1	8.26	125.74	118.30
1	G	832	ASP	CB-CG-OD2	-8.24	110.88	118.30
1	C	329	ASP	CB-CG-OD2	-8.23	110.89	118.30
1	E	429	ASP	CB-CG-OD2	-8.23	110.89	118.30
1	M	786	ARG	NE-CZ-NH1	8.20	124.40	120.30
1	F	859	ASP	CB-CG-OD2	-8.20	110.92	118.30
1	A	881	ARG	NE-CZ-NH1	8.19	124.39	120.30
1	K	954	ASP	CB-CG-OD2	-8.19	110.93	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	130	ASP	CB-CG-OD1	8.18	125.67	118.30
1	E	875	ASP	CB-CG-OD1	-8.18	110.94	118.30
1	N	859	ASP	CB-CG-OD2	-8.18	110.94	118.30
1	A	403	ASP	CB-CG-OD2	-8.17	110.94	118.30
1	E	368	ASP	CB-CG-OD2	-8.17	110.95	118.30
1	H	507	ASP	CB-CG-OD2	-8.15	110.96	118.30
1	H	211	ASP	CB-CG-OD1	8.15	125.64	118.30
1	H	746	ASP	CB-CG-OD2	-8.14	110.97	118.30
1	F	598	ASP	CB-CG-OD1	-8.14	110.97	118.30
1	M	411	ASP	CB-CG-OD1	8.13	125.62	118.30
1	D	857	ARG	NE-CZ-NH1	8.13	124.36	120.30
1	I	166	ARG	NE-CZ-NH1	8.13	124.36	120.30
1	D	954	ASP	CB-CG-OD2	-8.12	110.99	118.30
1	L	15	ASP	CB-CG-OD2	-8.12	111.00	118.30
1	G	201	ASP	CB-CG-OD2	-8.11	111.00	118.30
1	J	591	ASP	CB-CG-OD1	8.10	125.59	118.30
1	I	938	ARG	NE-CZ-NH2	-8.10	116.25	120.30
1	O	924	ASP	CB-CG-OD2	-8.10	111.01	118.30
1	H	505	ARG	NE-CZ-NH2	-8.10	116.25	120.30
1	F	507	ASP	CB-CG-OD2	-8.09	111.02	118.30
1	O	388	ARG	NE-CZ-NH1	8.09	124.34	120.30
1	O	594	ASP	CB-CG-OD2	-8.09	111.02	118.30
1	I	96	ASP	CB-CG-OD1	8.09	125.58	118.30
1	L	211	ASP	CB-CG-OD2	-8.09	111.02	118.30
1	A	531	ARG	NE-CZ-NH1	-8.08	116.26	120.30
1	N	287	ASP	CB-CG-OD1	8.07	125.56	118.30
1	O	43	ARG	NE-CZ-NH2	-8.06	116.27	120.30
1	H	610	ASP	CB-CG-OD1	-8.06	111.05	118.30
1	A	210	ARG	NE-CZ-NH1	8.05	124.33	120.30
1	L	648	ASP	CB-CG-OD1	8.05	125.54	118.30
1	M	909	ARG	NE-CZ-NH2	-8.05	116.28	120.30
1	G	954	ASP	CB-CG-OD1	8.03	125.53	118.30
1	H	561	ARG	NE-CZ-NH1	8.02	124.31	120.30
1	I	509	ASP	CB-CG-OD2	-8.01	111.09	118.30
1	A	571	VAL	CB-CA-C	-7.99	96.21	111.40
1	H	140	ARG	NE-CZ-NH2	-7.99	116.30	120.30
1	J	509	ASP	CB-CG-OD2	-7.98	111.12	118.30
1	O	875	ASP	CB-CG-OD1	-7.98	111.12	118.30
1	I	333	ARG	NE-CZ-NH1	7.97	124.28	120.30
1	G	15	ASP	CB-CG-OD2	-7.97	111.13	118.30
1	E	13	ARG	NE-CZ-NH1	7.96	124.28	120.30
1	K	746	ASP	CB-CG-OD2	-7.96	111.13	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	987	ASP	CB-CG-OD1	7.96	125.46	118.30
1	G	792	ASP	CB-CG-OD2	-7.95	111.15	118.30
1	K	193	ASP	CB-CG-OD1	7.95	125.45	118.30
1	M	224	ASP	CB-CG-OD1	-7.94	111.15	118.30
1	E	671	ASP	CB-CG-OD2	-7.94	111.16	118.30
1	O	329	ASP	CB-CG-OD2	-7.94	111.16	118.30
1	D	509	ASP	CB-CG-OD2	-7.93	111.16	118.30
1	J	368	ASP	CB-CG-OD2	-7.93	111.16	118.30
1	H	439	ARG	NE-CZ-NH1	7.92	124.26	120.30
1	P	15	ASP	CB-CG-OD2	-7.92	111.17	118.30
1	N	507	ASP	CB-CG-OD2	-7.92	111.18	118.30
1	C	411	ASP	CB-CG-OD2	-7.91	111.18	118.30
1	H	938	ARG	N-CA-CB	7.91	124.83	110.60
1	O	403	ASP	CB-CG-OD2	-7.90	111.19	118.30
1	O	790	ASP	CB-CG-OD2	-7.90	111.19	118.30
1	D	996	ASP	CB-CG-OD2	-7.90	111.19	118.30
1	B	509	ASP	CB-CG-OD2	-7.90	111.19	118.30
1	O	497	ASP	CB-CG-OD2	-7.89	111.20	118.30
1	A	792	ASP	CB-CG-OD2	-7.89	111.20	118.30
1	G	329	ASP	CB-CG-OD2	-7.88	111.21	118.30
1	F	329	ASP	CB-CG-OD2	-7.87	111.22	118.30
1	P	594	ASP	CB-CG-OD1	-7.87	111.22	118.30
1	J	572	ASP	CB-CG-OD2	-7.87	111.22	118.30
1	I	164	ASP	CB-CG-OD1	7.86	125.38	118.30
1	F	368	ASP	CB-CG-OD2	-7.86	111.23	118.30
1	A	786	ARG	NE-CZ-NH1	7.86	124.23	120.30
1	F	479	ASP	CB-CG-OD2	-7.86	111.23	118.30
1	O	356	ARG	NE-CZ-NH1	7.86	124.23	120.30
1	H	497	ASP	CB-CG-OD2	-7.85	111.23	118.30
1	H	919	ASP	CB-CG-OD2	-7.85	111.23	118.30
1	C	375	ASP	CB-CG-OD1	7.85	125.36	118.30
1	D	659	ASP	CB-CG-OD1	7.85	125.36	118.30
1	L	859	ASP	CB-CG-OD2	-7.85	111.23	118.30
1	D	561	ARG	NE-CZ-NH1	7.84	124.22	120.30
1	G	319	ASP	CB-CG-OD2	-7.84	111.25	118.30
1	M	15	ASP	CB-CG-OD2	-7.84	111.25	118.30
1	G	130	ASP	CB-CG-OD1	7.83	125.35	118.30
1	M	172	ASP	CB-CG-OD2	-7.83	111.26	118.30
1	A	287	ASP	CB-CG-OD2	-7.82	111.26	118.30
1	I	252	ASP	CB-CG-OD2	-7.82	111.26	118.30
1	L	5	ASP	CB-CG-OD2	-7.81	111.27	118.30
1	D	211	ASP	CB-CG-OD2	-7.81	111.27	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	385	ASN	CB-CA-C	-7.81	94.78	110.40
1	E	832	ASP	CB-CG-OD2	-7.81	111.27	118.30
1	L	251	ARG	NE-CZ-NH1	7.81	124.20	120.30
1	L	442	ARG	NE-CZ-NH1	7.80	124.20	120.30
1	N	411	ASP	CB-CG-OD1	7.80	125.32	118.30
1	M	399	TYR	CB-CG-CD1	7.80	125.68	121.00
1	G	403	ASP	CB-CG-OD1	7.79	125.31	118.30
1	L	881	ARG	NE-CZ-NH2	-7.79	116.40	120.30
1	O	368	ASP	CB-CG-OD2	-7.79	111.29	118.30
1	N	224	ASP	CB-CG-OD1	-7.79	111.29	118.30
1	A	746	ASP	CB-CG-OD2	-7.79	111.29	118.30
1	C	282	ARG	NE-CZ-NH2	-7.78	116.41	120.30
1	E	14	ARG	NE-CZ-NH1	7.78	124.19	120.30
1	J	746	ASP	CB-CG-OD2	-7.78	111.30	118.30
1	O	96	ASP	CB-CG-OD1	7.78	125.30	118.30
1	N	45	ASP	CB-CG-OD1	7.77	125.30	118.30
1	A	579	ASP	CB-CG-OD2	-7.76	111.31	118.30
1	P	172	ASP	CB-CG-OD2	-7.76	111.31	118.30
1	P	439	ARG	NE-CZ-NH1	7.76	124.18	120.30
1	A	429	ASP	CB-CG-OD2	-7.76	111.32	118.30
1	P	368	ASP	CB-CG-OD1	7.76	125.28	118.30
1	M	591	ASP	CB-CG-OD1	7.75	125.28	118.30
1	P	746	ASP	CB-CG-OD2	-7.75	111.32	118.30
1	E	251	ARG	NE-CZ-NH2	-7.75	116.42	120.30
1	I	909	ARG	NE-CZ-NH2	-7.75	116.42	120.30
1	J	292	ARG	NE-CZ-NH1	7.75	124.17	120.30
1	L	403	ASP	CB-CG-OD2	-7.75	111.33	118.30
1	E	199	ASP	CB-CG-OD2	-7.74	111.33	118.30
1	P	507	ASP	CB-CG-OD2	-7.74	111.33	118.30
1	B	356	ARG	NE-CZ-NH1	7.73	124.16	120.30
1	D	280	ASP	CB-CG-OD1	-7.72	111.35	118.30
1	K	786	ARG	NE-CZ-NH1	7.72	124.16	120.30
1	O	909	ARG	NE-CZ-NH1	7.71	124.16	120.30
1	D	859	ASP	CB-CG-OD1	7.71	125.24	118.30
1	G	594	ASP	CB-CG-OD1	7.71	125.24	118.30
1	H	869	ASP	CB-CG-OD1	-7.71	111.36	118.30
1	D	507	ASP	CB-CG-OD2	-7.71	111.36	118.30
1	N	287	ASP	CB-CG-OD2	-7.71	111.37	118.30
1	O	954	ASP	CB-CG-OD2	-7.70	111.37	118.30
1	I	572	ASP	CB-CG-OD2	-7.70	111.37	118.30
1	H	859	ASP	CB-CG-OD2	-7.70	111.37	118.30
1	C	429	ASP	CB-CG-OD1	7.70	125.22	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	509	ASP	CB-CG-OD1	7.69	125.22	118.30
1	A	336	ARG	NE-CZ-NH1	7.69	124.15	120.30
1	G	579	ASP	CB-CG-OD1	7.69	125.22	118.30
1	C	166	ARG	NE-CZ-NH2	-7.69	116.45	120.30
1	E	579	ASP	CB-CG-OD2	-7.69	111.38	118.30
1	D	193	ASP	CB-CG-OD1	7.68	125.22	118.30
1	F	594	ASP	CB-CG-OD2	-7.68	111.38	118.30
1	J	201	ASP	CB-CG-OD1	7.68	125.21	118.30
1	K	648	ASP	CB-CG-OD2	-7.68	111.39	118.30
1	O	772	ASP	CB-CG-OD2	-7.67	111.39	118.30
1	M	954	ASP	CB-CG-OD2	-7.67	111.40	118.30
1	A	375	ASP	CB-CG-OD2	-7.67	111.40	118.30
1	E	938	ARG	NE-CZ-NH1	7.67	124.13	120.30
1	E	251	ARG	NE-CZ-NH1	7.66	124.13	120.30
1	H	193	ASP	CB-CG-OD2	7.65	125.19	118.30
1	B	329	ASP	CB-CG-OD2	-7.65	111.42	118.30
1	D	166	ARG	NE-CZ-NH1	7.64	124.12	120.30
1	P	996	ASP	CB-CG-OD1	7.64	125.18	118.30
1	O	802	ASP	CB-CG-OD2	-7.64	111.43	118.30
1	J	919	ASP	CB-CG-OD1	7.64	125.17	118.30
1	F	443	MET	CG-SD-CE	7.61	112.38	100.20
1	M	368	ASP	CB-CG-OD2	-7.61	111.45	118.30
1	P	45	ASP	CB-CG-OD1	7.61	125.14	118.30
1	H	447	ASP	CB-CG-OD2	-7.60	111.46	118.30
1	G	166	ARG	NE-CZ-NH2	-7.60	116.50	120.30
1	C	790	ASP	CB-CG-OD1	7.59	125.13	118.30
1	E	569	ASP	CB-CG-OD1	-7.59	111.47	118.30
1	E	954	ASP	CB-CG-OD2	-7.59	111.47	118.30
1	E	428	ASP	CB-CG-OD2	-7.58	111.47	118.30
1	E	507	ASP	CB-CG-OD1	7.58	125.12	118.30
1	J	96	ASP	CB-CG-OD1	7.58	125.12	118.30
1	A	569	ASP	CB-CG-OD1	-7.58	111.48	118.30
1	E	572	ASP	CB-CG-OD2	-7.57	111.49	118.30
1	N	746	ASP	CB-CG-OD2	-7.57	111.49	118.30
1	D	572	ASP	CB-CG-OD2	-7.56	111.49	118.30
1	E	591	ASP	CB-CG-OD2	-7.56	111.50	118.30
1	I	425	ARG	NE-CZ-NH1	7.55	124.08	120.30
1	F	531	ARG	NE-CZ-NH2	-7.55	116.53	120.30
1	K	448	ARG	NE-CZ-NH1	7.55	124.07	120.30
1	L	329	ASP	CB-CG-OD2	-7.55	111.51	118.30
1	P	237	ARG	NE-CZ-NH1	7.55	124.07	120.30
1	K	193	ASP	CB-CG-OD2	-7.54	111.51	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	832	ASP	CB-CG-OD2	-7.54	111.52	118.30
1	O	201	ASP	CB-CG-OD1	7.54	125.08	118.30
1	P	909	ARG	NE-CZ-NH2	-7.53	116.53	120.30
1	D	429	ASP	CB-CG-OD2	-7.53	111.52	118.30
1	N	598	ASP	CB-CG-OD1	-7.52	111.53	118.30
1	E	429	ASP	CB-CG-OD1	7.52	125.07	118.30
1	E	329	ASP	CB-CG-OD1	-7.52	111.54	118.30
1	C	809	ARG	NE-CZ-NH2	-7.51	116.54	120.30
1	M	579	ASP	CB-CG-OD2	-7.50	111.55	118.30
1	J	538	TYR	CB-CG-CD1	7.50	125.50	121.00
1	D	859	ASP	CB-CG-OD2	-7.50	111.55	118.30
1	L	579	ASP	CB-CG-OD1	7.50	125.05	118.30
1	P	140	ARG	NE-CZ-NH1	7.50	124.05	120.30
1	L	130	ASP	CB-CG-OD2	-7.48	111.56	118.30
1	J	447	ASP	CB-CG-OD2	-7.48	111.57	118.30
1	J	908	ASP	CB-CG-OD2	-7.48	111.57	118.30
1	L	96	ASP	CB-CG-OD1	7.48	125.03	118.30
1	B	319	ASP	CB-CG-OD2	-7.48	111.57	118.30
1	F	572	ASP	CB-CG-OD2	-7.47	111.58	118.30
1	P	144	ASP	CB-CG-OD1	-7.47	111.58	118.30
1	G	282	ARG	NE-CZ-NH1	7.47	124.03	120.30
1	H	363	HIS	CA-CB-CG	-7.46	100.91	113.60
1	F	828	ASP	CB-CG-OD1	-7.46	111.59	118.30
1	G	772	ASP	CB-CG-OD1	7.46	125.01	118.30
1	B	718	GLN	N-CA-CB	7.45	124.01	110.60
1	L	746	ASP	CB-CG-OD2	-7.45	111.59	118.30
1	H	954	ASP	CB-CG-OD2	-7.45	111.59	118.30
1	I	183	ARG	NE-CZ-NH1	7.44	124.02	120.30
1	I	497	ASP	CB-CG-OD1	7.44	125.00	118.30
1	C	144	ASP	CB-CG-OD1	7.44	124.99	118.30
1	P	809	ARG	NE-CZ-NH1	7.43	124.02	120.30
1	A	572	ASP	CB-CG-OD2	-7.43	111.61	118.30
1	G	782	ASP	CB-CG-OD1	7.43	124.98	118.30
1	J	924	ASP	CB-CG-OD2	-7.42	111.62	118.30
1	J	954	ASP	CB-CG-OD1	7.42	124.98	118.30
1	E	164	ASP	CB-CG-OD2	-7.42	111.62	118.30
1	E	199	ASP	CB-CG-OD1	7.41	124.97	118.30
1	B	924	ASP	CB-CG-OD2	-7.41	111.63	118.30
1	D	594	ASP	CB-CG-OD2	-7.41	111.63	118.30
1	M	598	ASP	CB-CG-OD2	7.39	124.95	118.30
1	A	77	ASP	CB-CG-OD1	7.38	124.95	118.30
1	G	746	ASP	CB-CG-OD2	-7.38	111.65	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	954	ASP	CB-CG-OD1	7.38	124.94	118.30
1	O	96	ASP	CB-CG-OD2	-7.38	111.66	118.30
1	B	497	ASP	CB-CG-OD2	-7.38	111.66	118.30
1	A	828	ASP	CB-CG-OD2	7.37	124.94	118.30
1	G	255	ARG	NE-CZ-NH1	7.37	123.99	120.30
1	J	492	ASP	CB-CG-OD2	-7.37	111.67	118.30
1	H	130	ASP	CB-CG-OD2	-7.36	111.67	118.30
1	O	611	ARG	NE-CZ-NH1	7.36	123.98	120.30
1	E	916	ASP	CB-CG-OD1	-7.35	111.68	118.30
1	I	157	ARG	NE-CZ-NH2	-7.35	116.62	120.30
1	D	908	ASP	CB-CG-OD2	-7.35	111.69	118.30
1	H	130	ASP	CB-CG-OD1	7.35	124.91	118.30
1	N	894	ARG	NE-CZ-NH1	7.35	123.97	120.30
1	E	507	ASP	CB-CG-OD2	-7.35	111.69	118.30
1	K	938	ARG	NE-CZ-NH1	7.34	123.97	120.30
1	P	859	ASP	CB-CG-OD1	7.34	124.90	118.30
1	D	782	ASP	CB-CG-OD2	-7.32	111.71	118.30
1	J	96	ASP	CB-CG-OD2	-7.32	111.72	118.30
1	N	610	ASP	CB-CG-OD1	-7.32	111.71	118.30
1	G	610	ASP	CB-CG-OD1	-7.32	111.72	118.30
1	O	598	ASP	CB-CG-OD1	-7.31	111.72	118.30
1	J	442	ARG	NE-CZ-NH1	7.31	123.95	120.30
1	G	790	ASP	CB-CG-OD2	-7.31	111.72	118.30
1	A	429	ASP	CB-CG-OD1	7.30	124.87	118.30
1	I	185	ALA	N-CA-CB	7.30	120.32	110.10
1	P	938	ARG	NE-CZ-NH1	7.30	123.95	120.30
1	I	386	ALA	N-CA-CB	-7.30	99.88	110.10
1	C	224	ASP	CB-CG-OD2	7.29	124.87	118.30
1	G	233	ASP	CB-CG-OD2	-7.29	111.73	118.30
1	I	193	ASP	CB-CG-OD1	7.29	124.87	118.30
1	G	411	ASP	CB-CG-OD2	-7.29	111.74	118.30
1	H	792	ASP	CB-CG-OD1	7.29	124.86	118.30
1	M	772	ASP	CB-CG-OD1	7.29	124.86	118.30
1	O	997	ASP	CB-CG-OD1	-7.29	111.74	118.30
1	C	385	ASN	CB-CA-C	-7.28	95.84	110.40
1	C	211	ASP	CB-CG-OD2	-7.28	111.75	118.30
1	E	14	ARG	NE-CZ-NH2	-7.28	116.66	120.30
1	F	429	ASP	CB-CG-OD2	-7.28	111.75	118.30
1	P	954	ASP	CB-CG-OD2	-7.27	111.75	118.30
1	G	5	ASP	CB-CG-OD2	-7.27	111.76	118.30
1	L	594	ASP	CB-CG-OD1	-7.27	111.76	118.30
1	M	648	ASP	CB-CG-OD2	-7.27	111.76	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	65	ALA	C-N-CD	-7.26	104.62	120.60
1	J	987	ASP	CB-CG-OD2	-7.26	111.77	118.30
1	N	193	ASP	CB-CG-OD2	-7.26	111.77	118.30
1	P	329	ASP	CB-CG-OD2	-7.26	111.77	118.30
1	N	431	ARG	NE-CZ-NH1	7.25	123.93	120.30
1	J	230	ARG	NE-CZ-NH1	7.25	123.92	120.30
1	M	772	ASP	CB-CG-OD2	-7.25	111.78	118.30
1	M	961	ARG	NE-CZ-NH2	-7.25	116.68	120.30
1	D	368	ASP	CB-CG-OD2	-7.25	111.78	118.30
1	E	996	ASP	CB-CG-OD2	-7.24	111.78	118.30
1	B	671	ASP	CB-CG-OD2	-7.24	111.78	118.30
1	C	828	ASP	CB-CG-OD1	7.24	124.82	118.30
1	I	429	ASP	CB-CG-OD1	7.24	124.81	118.30
1	B	375	ASP	CB-CG-OD1	7.24	124.81	118.30
1	C	130	ASP	CB-CG-OD2	-7.24	111.79	118.30
1	A	594	ASP	CB-CG-OD2	-7.23	111.79	118.30
1	A	375	ASP	CB-CG-OD1	7.22	124.80	118.30
1	C	648	ASP	CB-CG-OD1	7.22	124.80	118.30
1	J	579	ASP	CB-CG-OD1	7.22	124.79	118.30
1	P	45	ASP	CB-CG-OD2	-7.22	111.81	118.30
1	M	329	ASP	CB-CG-OD2	-7.21	111.81	118.30
1	N	356	ARG	NE-CZ-NH2	-7.21	116.69	120.30
1	O	233	ASP	CB-CG-OD1	7.21	124.79	118.30
1	O	996	ASP	CB-CG-OD1	7.21	124.79	118.30
1	P	280	ASP	CB-CG-OD2	7.21	124.79	118.30
1	A	272	ALA	C-N-CD	-7.20	104.75	120.60
1	N	659	ASP	CB-CG-OD2	-7.19	111.83	118.30
1	J	591	ASP	CB-CG-OD2	-7.19	111.83	118.30
1	J	916	ASP	CB-CG-OD1	7.19	124.77	118.30
1	P	509	ASP	CB-CG-OD2	-7.19	111.83	118.30
1	B	193	ASP	CB-CG-OD1	7.19	124.77	118.30
1	H	782	ASP	CB-CG-OD2	-7.19	111.83	118.30
1	L	659	ASP	CB-CG-OD2	-7.19	111.83	118.30
1	O	411	ASP	CB-CG-OD1	7.19	124.77	118.30
1	E	497	ASP	CB-CG-OD2	-7.18	111.83	118.30
1	M	919	ASP	CB-CG-OD2	-7.18	111.84	118.30
1	E	193	ASP	CB-CG-OD1	7.18	124.76	118.30
1	E	447	ASP	CB-CG-OD2	-7.18	111.84	118.30
1	M	15	ASP	CB-CG-OD1	7.18	124.76	118.30
1	J	859	ASP	CB-CG-OD2	-7.18	111.84	118.30
1	D	386	ALA	N-CA-CB	-7.17	100.06	110.10
1	O	130	ASP	CB-CG-OD2	-7.17	111.84	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	938	ARG	NE-CZ-NH2	-7.17	116.71	120.30
1	C	233	ASP	CB-CG-OD2	-7.17	111.85	118.30
1	J	875	ASP	CB-CG-OD1	-7.17	111.84	118.30
1	I	211	ASP	CB-CG-OD2	-7.17	111.85	118.30
1	O	671	ASP	CB-CG-OD2	-7.17	111.85	118.30
1	F	166	ARG	NE-CZ-NH2	-7.16	116.72	120.30
1	G	954	ASP	CB-CG-OD2	-7.16	111.86	118.30
1	M	166	ARG	NE-CZ-NH2	-7.16	116.72	120.30
1	F	333	ARG	NE-CZ-NH1	7.15	123.88	120.30
1	L	172	ASP	CB-CG-OD2	-7.15	111.86	118.30
1	E	594	ASP	CB-CG-OD1	7.15	124.73	118.30
1	D	497	ASP	CB-CG-OD1	7.14	124.73	118.30
1	E	996	ASP	CB-CG-OD1	7.14	124.72	118.30
1	P	5	ASP	CB-CG-OD2	-7.14	111.88	118.30
1	G	368	ASP	CB-CG-OD1	7.13	124.72	118.30
1	L	914	CYS	N-CA-CB	7.13	123.44	110.60
1	N	15	ASP	CB-CG-OD2	-7.13	111.88	118.30
1	N	164	ASP	CB-CG-OD2	-7.13	111.88	118.30
1	D	908	ASP	CB-CG-OD1	7.13	124.71	118.30
1	B	671	ASP	CB-CG-OD1	7.12	124.71	118.30
1	O	15	ASP	CB-CG-OD2	-7.12	111.89	118.30
1	E	15	ASP	CB-CG-OD1	-7.12	111.89	118.30
1	E	537	GLU	OE1-CD-OE2	7.12	131.84	123.30
1	O	802	ASP	CB-CG-OD1	7.12	124.71	118.30
1	N	509	ASP	CB-CG-OD2	-7.12	111.89	118.30
1	H	287	ASP	CB-CG-OD2	-7.12	111.89	118.30
1	I	255	ARG	NE-CZ-NH1	7.12	123.86	120.30
1	J	828	ASP	CB-CG-OD2	7.11	124.70	118.30
1	E	659	ASP	CB-CG-OD2	-7.10	111.91	118.30
1	F	385	ASN	CB-CA-C	-7.09	96.21	110.40
1	F	338	GLU	N-CA-CB	-7.09	97.83	110.60
1	F	199	ASP	CB-CG-OD2	-7.09	111.92	118.30
1	A	251	ARG	NE-CZ-NH1	7.08	123.84	120.30
1	A	782	ASP	CB-CG-OD2	-7.08	111.93	118.30
1	I	828	ASP	CB-CG-OD2	7.08	124.67	118.30
1	D	411	ASP	CB-CG-OD2	-7.07	111.93	118.30
1	J	193	ASP	CB-CG-OD2	-7.07	111.93	118.30
1	K	429	ASP	CB-CG-OD2	-7.07	111.93	118.30
1	L	45	ASP	CB-CG-OD1	7.07	124.66	118.30
1	D	598	ASP	CB-CG-OD1	-7.07	111.94	118.30
1	D	648	ASP	CB-CG-OD2	-7.07	111.94	118.30
1	H	368	ASP	CB-CG-OD1	-7.07	111.94	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	916	ASP	CB-CG-OD2	-7.05	111.95	118.30
1	E	591	ASP	CB-CG-OD1	7.05	124.65	118.30
1	G	157	ARG	NE-CZ-NH1	7.05	123.83	120.30
1	I	492	ASP	CB-CG-OD1	7.05	124.65	118.30
1	C	428	ASP	CB-CG-OD2	-7.05	111.95	118.30
1	I	178	ARG	NE-CZ-NH1	7.05	123.82	120.30
1	M	512	PHE	CB-CG-CD1	-7.05	115.86	120.80
1	H	442	ARG	NE-CZ-NH1	7.05	123.82	120.30
1	H	809	ARG	NE-CZ-NH2	-7.05	116.78	120.30
1	H	425	ARG	NE-CZ-NH1	7.05	123.82	120.30
1	O	82	ASP	CB-CG-OD2	-7.04	111.96	118.30
1	F	569	ASP	CB-CG-OD2	7.04	124.64	118.30
1	B	954	ASP	CB-CG-OD2	-7.04	111.97	118.30
1	I	832	ASP	CB-CG-OD2	-7.04	111.97	118.30
1	P	894	ARG	NE-CZ-NH1	7.04	123.82	120.30
1	A	645	ARG	NE-CZ-NH1	7.04	123.82	120.30
1	B	15	ASP	CB-CG-OD1	7.03	124.63	118.30
1	B	881	ARG	NE-CZ-NH1	7.03	123.82	120.30
1	E	594	ASP	CB-CG-OD2	-7.03	111.97	118.30
1	N	579	ASP	CB-CG-OD2	-7.03	111.97	118.30
1	J	579	ASP	CB-CG-OD2	-7.03	111.98	118.30
1	B	287	ASP	CB-CG-OD2	-7.03	111.98	118.30
1	F	46	ARG	NE-CZ-NH2	-7.02	116.79	120.30
1	B	96	ASP	CB-CG-OD2	-7.02	111.98	118.30
1	B	717	TRP	C-N-CA	7.02	139.25	121.70
1	H	946	TYR	CB-CG-CD2	-7.02	116.79	121.00
1	K	973	ARG	NE-CZ-NH1	7.02	123.81	120.30
1	M	579	ASP	CB-CG-OD1	7.02	124.62	118.30
1	F	329	ASP	CB-CG-OD1	7.01	124.61	118.30
1	H	869	ASP	CB-CG-OD2	7.01	124.61	118.30
1	A	916	ASP	CB-CG-OD1	7.01	124.61	118.30
1	D	875	ASP	CB-CG-OD2	7.01	124.61	118.30
1	G	233	ASP	CB-CG-OD1	7.01	124.61	118.30
1	H	859	ASP	CB-CG-OD1	7.01	124.61	118.30
1	O	211	ASP	CB-CG-OD2	-7.01	111.99	118.30
1	P	428	ASP	CB-CG-OD2	-7.01	111.99	118.30
1	F	201	ASP	CB-CG-OD2	-7.00	112.00	118.30
1	L	45	ASP	CB-CG-OD2	-7.00	112.00	118.30
1	N	916	ASP	CB-CG-OD2	-7.00	112.00	118.30
1	K	659	ASP	CB-CG-OD2	-7.00	112.00	118.30
1	I	786	ARG	NE-CZ-NH1	6.99	123.80	120.30
1	D	96	ASP	CB-CG-OD1	6.99	124.59	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	832	ASP	CB-CG-OD1	6.99	124.59	118.30
1	K	859	ASP	CB-CG-OD2	-6.99	112.01	118.30
1	H	255	ARG	NE-CZ-NH2	-6.99	116.81	120.30
1	F	916	ASP	CB-CG-OD2	-6.98	112.02	118.30
1	J	251	ARG	NE-CZ-NH1	6.98	123.79	120.30
1	L	38	ASN	N-CA-CB	6.98	123.17	110.60
1	P	538	TYR	CB-CG-CD2	-6.98	116.81	121.00
1	M	591	ASP	CB-CG-OD2	-6.98	112.02	118.30
1	L	802	ASP	CB-CG-OD2	-6.98	112.02	118.30
1	G	210	ARG	N-CA-CB	6.97	123.16	110.60
1	O	403	ASP	CB-CG-OD1	6.97	124.58	118.30
1	I	909	ARG	NE-CZ-NH1	6.97	123.78	120.30
1	E	130	ASP	CB-CG-OD2	-6.97	112.03	118.30
1	H	802	ASP	CB-CG-OD2	-6.97	112.03	118.30
1	C	659	ASP	CB-CG-OD2	-6.96	112.03	118.30
1	M	659	ASP	CB-CG-OD2	-6.96	112.03	118.30
1	D	746	ASP	CB-CG-OD2	-6.96	112.04	118.30
1	C	233	ASP	CB-CG-OD1	6.96	124.56	118.30
1	K	130	ASP	CB-CG-OD2	-6.95	112.05	118.30
1	O	77	ASP	CB-CG-OD2	-6.95	112.05	118.30
1	I	96	ASP	CB-CG-OD2	-6.95	112.05	118.30
1	O	919	ASP	CB-CG-OD1	6.95	124.55	118.30
1	K	280	ASP	CB-CG-OD1	-6.95	112.05	118.30
1	E	479	ASP	CB-CG-OD2	-6.94	112.05	118.30
1	M	224	ASP	CB-CG-OD2	6.94	124.54	118.30
1	J	594	ASP	CB-CG-OD1	6.93	124.54	118.30
1	M	319	ASP	CB-CG-OD2	-6.93	112.06	118.30
1	D	368	ASP	CB-CG-OD1	6.93	124.54	118.30
1	L	938	ARG	NE-CZ-NH1	6.93	123.77	120.30
1	F	531	ARG	NE-CZ-NH1	6.93	123.76	120.30
1	H	901	GLY	C-N-CD	-6.93	105.36	120.60
1	I	447	ASP	CB-CG-OD1	6.93	124.53	118.30
1	H	718	GLN	CB-CA-C	6.92	124.25	110.40
1	P	832	ASP	CB-CG-OD1	6.92	124.53	118.30
1	F	45	ASP	CB-CG-OD2	-6.92	112.07	118.30
1	G	428	ASP	CB-CG-OD1	6.92	124.53	118.30
1	P	287	ASP	CB-CG-OD1	6.92	124.53	118.30
1	M	648	ASP	CB-CG-OD1	6.92	124.53	118.30
1	N	368	ASP	CB-CG-OD2	-6.92	112.08	118.30
1	O	201	ASP	CB-CG-OD2	-6.91	112.08	118.30
1	F	211	ASP	CB-CG-OD2	-6.91	112.08	118.30
1	C	5	ASP	CB-CG-OD1	6.90	124.51	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	199	ASP	CB-CG-OD2	-6.90	112.09	118.30
1	C	45	ASP	CB-CG-OD1	6.89	124.50	118.30
1	G	193	ASP	CB-CG-OD1	6.89	124.50	118.30
1	N	659	ASP	CB-CG-OD1	6.89	124.50	118.30
1	A	233	ASP	CB-CG-OD2	-6.89	112.10	118.30
1	N	233	ASP	CB-CG-OD1	6.88	124.49	118.30
1	M	447	ASP	CB-CG-OD2	-6.88	112.11	118.30
1	B	598	ASP	CB-CG-OD2	6.88	124.49	118.30
1	N	792	ASP	CB-CG-OD2	-6.88	112.11	118.30
1	P	859	ASP	CB-CG-OD2	-6.88	112.11	118.30
1	K	561	ARG	NE-CZ-NH1	6.87	123.74	120.30
1	L	336	ARG	NE-CZ-NH1	6.87	123.74	120.30
1	C	286	ALA	CB-CA-C	-6.87	99.79	110.10
1	F	15	ASP	CB-CG-OD1	6.87	124.48	118.30
1	N	45	ASP	CB-CG-OD2	-6.87	112.12	118.30
1	J	82	ASP	CB-CG-OD2	-6.87	112.12	118.30
1	L	429	ASP	CB-CG-OD2	-6.87	112.12	118.30
1	L	869	ASP	CB-CG-OD1	-6.87	112.12	118.30
1	J	429	ASP	CB-CG-OD2	-6.86	112.12	118.30
1	M	875	ASP	CB-CG-OD1	-6.86	112.12	118.30
1	A	271	THR	CA-CB-CG2	-6.86	102.80	112.40
1	C	319	ASP	CB-CG-OD1	-6.86	112.13	118.30
1	C	252	ASP	CB-CG-OD2	-6.85	112.13	118.30
1	G	598	ASP	CB-CG-OD2	6.85	124.47	118.30
1	F	914	CYS	CB-CA-C	6.85	124.10	110.40
1	F	196	TYR	CB-CG-CD2	-6.85	116.89	121.00
1	H	973	ARG	NE-CZ-NH1	6.84	123.72	120.30
1	B	199	ASP	CB-CG-OD2	-6.84	112.14	118.30
1	J	832	ASP	CB-CG-OD2	-6.83	112.15	118.30
1	L	482	ARG	NE-CZ-NH1	6.83	123.72	120.30
1	C	363	HIS	CA-CB-CG	-6.83	101.98	113.60
1	E	611	ARG	CD-NE-CZ	6.83	133.16	123.60
1	F	429	ASP	CB-CG-OD1	6.83	124.45	118.30
1	N	251	ARG	NE-CZ-NH1	6.83	123.72	120.30
1	H	509	ASP	CB-CG-OD1	6.83	124.45	118.30
1	M	172	ASP	CB-CG-OD1	6.83	124.45	118.30
1	F	792	ASP	CB-CG-OD1	6.83	124.44	118.30
1	C	790	ASP	CB-CG-OD2	-6.82	112.16	118.30
1	O	287	ASP	CB-CG-OD2	-6.82	112.16	118.30
1	K	659	ASP	CB-CG-OD1	6.81	124.43	118.30
1	A	130	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	A	411	ASP	CB-CG-OD1	6.81	124.43	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	579	ASP	CB-CG-OD1	6.81	124.43	118.30
1	P	610	ASP	CB-CG-OD2	-6.81	112.17	118.30
1	C	52	ARG	NE-CZ-NH1	6.81	123.70	120.30
1	A	233	ASP	CB-CG-OD1	6.81	124.43	118.30
1	C	130	ASP	CB-CG-OD1	6.81	124.43	118.30
1	M	140	ARG	NE-CZ-NH1	6.80	123.70	120.30
1	N	224	ASP	CB-CG-OD2	6.80	124.42	118.30
1	C	252	ASP	CB-CG-OD1	6.79	124.42	118.30
1	J	853	ARG	NE-CZ-NH2	-6.79	116.90	120.30
1	M	796	SER	N-CA-CB	6.79	120.69	110.50
1	M	792	ASP	CB-CG-OD2	-6.79	112.19	118.30
1	C	96	ASP	CB-CG-OD1	6.79	124.41	118.30
1	D	52	ARG	NE-CZ-NH2	-6.78	116.91	120.30
1	E	859	ASP	CB-CG-OD1	6.78	124.41	118.30
1	B	611	ARG	NE-CZ-NH1	6.78	123.69	120.30
1	O	439	ARG	NE-CZ-NH2	-6.77	116.91	120.30
1	K	802	ASP	CB-CG-OD2	-6.77	112.21	118.30
1	A	659	ASP	CB-CG-OD1	6.76	124.39	118.30
1	N	497	ASP	CB-CG-OD2	-6.76	112.21	118.30
1	N	130	ASP	CB-CG-OD1	6.76	124.39	118.30
1	F	790	ASP	CB-CG-OD1	6.76	124.38	118.30
1	L	591	ASP	CB-CG-OD2	-6.76	112.22	118.30
1	B	403	ASP	CB-CG-OD1	6.76	124.38	118.30
1	C	599	ARG	NE-CZ-NH2	6.76	123.68	120.30
1	F	447	ASP	CB-CG-OD1	6.75	124.38	118.30
1	K	446	ARG	NE-CZ-NH2	-6.75	116.92	120.30
1	H	648	ASP	CB-CG-OD2	-6.75	112.23	118.30
1	O	252	ASP	CB-CG-OD2	-6.75	112.23	118.30
1	D	881	ARG	NE-CZ-NH2	-6.74	116.93	120.30
1	P	875	ASP	CB-CG-OD1	-6.74	112.23	118.30
1	F	45	ASP	CB-CG-OD1	6.74	124.37	118.30
1	E	310	ARG	N-CA-CB	6.73	122.72	110.60
1	B	336	ARG	NE-CZ-NH1	6.73	123.67	120.30
1	B	772	ASP	CB-CG-OD2	-6.73	112.24	118.30
1	H	598	ASP	CB-CG-OD2	6.73	124.36	118.30
1	L	447	ASP	CB-CG-OD2	-6.73	112.25	118.30
1	P	15	ASP	CB-CG-OD1	6.72	124.35	118.30
1	L	557	ARG	NE-CZ-NH2	-6.72	116.94	120.30
1	B	598	ASP	CB-CG-OD1	-6.72	112.26	118.30
1	A	15	ASP	CB-CG-OD2	-6.71	112.26	118.30
1	B	403	ASP	CB-CG-OD2	-6.71	112.26	118.30
1	M	790	ASP	CB-CG-OD2	-6.71	112.26	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	800	ARG	NE-CZ-NH1	6.71	123.66	120.30
1	H	782	ASP	CB-CG-OD1	6.71	124.34	118.30
1	B	172	ASP	CB-CG-OD1	6.71	124.34	118.30
1	C	144	ASP	CB-CG-OD2	-6.71	112.26	118.30
1	D	15	ASP	CB-CG-OD2	-6.71	112.26	118.30
1	P	224	ASP	CB-CG-OD1	-6.71	112.26	118.30
1	A	403	ASP	CB-CG-OD1	6.71	124.34	118.30
1	O	429	ASP	CB-CG-OD1	6.71	124.34	118.30
1	H	996	ASP	CB-CG-OD2	-6.70	112.27	118.30
1	M	610	ASP	CB-CG-OD2	-6.70	112.27	118.30
1	F	338	GLU	O-C-N	-6.70	111.98	122.70
1	L	82	ASP	CB-CG-OD2	-6.70	112.27	118.30
1	P	204	ARG	NE-CZ-NH1	6.70	123.65	120.30
1	G	329	ASP	N-CA-CB	6.70	122.66	110.60
1	G	648	ASP	CB-CG-OD2	-6.70	112.28	118.30
1	L	206	SER	N-CA-CB	6.70	120.54	110.50
1	I	772	ASP	CB-CG-OD1	6.69	124.32	118.30
1	G	772	ASP	CB-CG-OD2	-6.69	112.28	118.30
1	J	130	ASP	CB-CG-OD1	6.69	124.32	118.30
1	N	594	ASP	CB-CG-OD2	-6.69	112.28	118.30
1	G	201	ASP	CB-CG-OD1	6.68	124.32	118.30
1	K	832	ASP	CB-CG-OD2	-6.68	112.28	118.30
1	L	368	ASP	CB-CG-OD2	-6.68	112.28	118.30
1	C	938	ARG	NE-CZ-NH2	-6.68	116.96	120.30
1	I	828	ASP	CB-CG-OD1	-6.68	112.29	118.30
1	I	15	ASP	CB-CG-OD2	-6.68	112.29	118.30
1	H	386	ALA	CB-CA-C	-6.67	100.09	110.10
1	C	201	ASP	CB-CG-OD2	-6.67	112.30	118.30
1	I	130	ASP	CB-CG-OD1	6.67	124.30	118.30
1	H	594	ASP	CB-CG-OD2	-6.67	112.30	118.30
1	O	781	ARG	NE-CZ-NH2	-6.66	116.97	120.30
1	P	269	SER	N-CA-CB	6.66	120.49	110.50
1	D	233	ASP	CB-CG-OD2	-6.66	112.31	118.30
1	H	946	TYR	CB-CG-CD1	6.66	125.00	121.00
1	K	598	ASP	CB-CG-OD2	6.66	124.29	118.30
1	B	183	ARG	NE-CZ-NH1	6.66	123.63	120.30
1	B	802	ASP	CB-CG-OD2	-6.66	112.31	118.30
1	D	82	ASP	CB-CG-OD2	-6.66	112.31	118.30
1	D	772	ASP	CB-CG-OD2	-6.66	112.31	118.30
1	N	333	ARG	NE-CZ-NH2	-6.66	116.97	120.30
1	I	368	ASP	CB-CG-OD2	-6.65	112.31	118.30
1	I	118	ASN	CB-CA-C	6.65	123.70	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	853	ARG	NE-CZ-NH2	-6.65	116.97	120.30
1	M	234	ASP	CB-CG-OD2	-6.65	112.32	118.30
1	E	838	THR	CA-CB-CG2	-6.65	103.09	112.40
1	F	147	ASN	N-CA-CB	-6.64	98.64	110.60
1	A	828	ASP	CB-CG-OD1	-6.64	112.32	118.30
1	J	45	ASP	CB-CG-OD1	6.64	124.28	118.30
1	E	224	ASP	CB-CG-OD1	-6.64	112.33	118.30
1	G	859	ASP	CB-CG-OD2	-6.64	112.33	118.30
1	H	448	ARG	NE-CZ-NH2	-6.64	116.98	120.30
1	L	509	ASP	CB-CG-OD1	6.64	124.27	118.30
1	P	497	ASP	CB-CG-OD2	-6.63	112.33	118.30
1	P	166	ARG	NE-CZ-NH2	-6.63	116.98	120.30
1	I	772	ASP	CB-CG-OD2	-6.63	112.33	118.30
1	I	509	ASP	CB-CG-OD1	6.63	124.27	118.30
1	K	881	ARG	NE-CZ-NH1	6.63	123.61	120.30
1	F	424	ASN	CB-CA-C	-6.63	97.14	110.40
1	L	579	ASP	CB-CG-OD2	-6.62	112.34	118.30
1	O	760	ARG	NE-CZ-NH1	6.62	123.61	120.30
1	G	938	ARG	N-CA-CB	6.62	122.52	110.60
1	J	802	ASP	CB-CG-OD2	-6.62	112.34	118.30
1	F	579	ASP	CB-CG-OD2	-6.62	112.34	118.30
1	B	924	ASP	CB-CG-OD1	6.62	124.26	118.30
1	M	853	ARG	NE-CZ-NH2	-6.62	116.99	120.30
1	B	916	ASP	CB-CG-OD1	6.62	124.25	118.30
1	L	428	ASP	CB-CG-OD2	-6.61	112.35	118.30
1	J	59	ARG	NE-CZ-NH1	6.61	123.61	120.30
1	D	591	ASP	CB-CG-OD1	6.61	124.25	118.30
1	G	579	ASP	CB-CG-OD2	-6.61	112.35	118.30
1	H	509	ASP	CB-CG-OD2	-6.61	112.35	118.30
1	N	954	ASP	CB-CG-OD2	-6.61	112.36	118.30
1	A	166	ARG	NE-CZ-NH2	-6.60	117.00	120.30
1	C	140	ARG	NE-CZ-NH1	6.60	123.60	120.30
1	E	671	ASP	CB-CG-OD1	6.60	124.24	118.30
1	L	411	ASP	CB-CG-OD1	6.60	124.24	118.30
1	B	919	ASP	CB-CG-OD2	-6.60	112.36	118.30
1	J	782	ASP	CB-CG-OD2	6.60	124.24	118.30
1	G	193	ASP	CB-CG-OD2	-6.59	112.37	118.30
1	N	356	ARG	NE-CZ-NH1	6.59	123.60	120.30
1	A	859	ASP	CB-CG-OD1	6.59	124.23	118.30
1	P	569	ASP	CB-CG-OD2	6.59	124.23	118.30
1	H	598	ASP	CB-CG-OD1	-6.59	112.37	118.30
1	D	473	ARG	NE-CZ-NH2	-6.59	117.01	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	598	ASP	CB-CG-OD1	-6.59	112.37	118.30
1	A	786	ARG	NE-CZ-NH2	-6.58	117.01	120.30
1	C	201	ASP	CB-CG-OD1	6.58	124.22	118.30
1	N	144	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	P	908	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	F	924	ASP	CB-CG-OD1	6.58	124.22	118.30
1	B	469	ASP	CB-CG-OD1	6.58	124.22	118.30
1	H	908	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	K	492	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	K	572	ASP	CB-CG-OD2	-6.58	112.38	118.30
1	C	787	ALA	C-N-CD	-6.57	106.14	120.60
1	I	193	ASP	CB-CG-OD2	-6.57	112.38	118.30
1	C	786	ARG	NE-CZ-NH1	6.57	123.59	120.30
1	P	40	GLU	N-CA-CB	6.57	122.42	110.60
1	M	429	ASP	CB-CG-OD2	-6.56	112.39	118.30
1	P	52	ARG	NE-CZ-NH1	6.56	123.58	120.30
1	J	282	ARG	NE-CZ-NH1	6.56	123.58	120.30
1	A	211	ASP	CB-CG-OD2	-6.56	112.40	118.30
1	L	336	ARG	NE-CZ-NH2	-6.55	117.02	120.30
1	M	45	ASP	CB-CG-OD2	-6.55	112.40	118.30
1	M	411	ASP	CB-CG-OD2	-6.55	112.40	118.30
1	L	356	ARG	NE-CZ-NH1	6.55	123.58	120.30
1	E	234	ASP	CB-CG-OD2	-6.55	112.41	118.30
1	F	599	ARG	NE-CZ-NH1	6.55	123.58	120.30
1	H	319	ASP	CB-CG-OD1	-6.55	112.41	118.30
1	B	224	ASP	CB-CG-OD2	6.55	124.19	118.30
1	H	140	ARG	NE-CZ-NH1	6.55	123.57	120.30
1	M	31	PRO	C-N-CD	-6.55	106.20	120.60
1	N	645	ARG	NE-CZ-NH1	6.55	123.57	120.30
1	F	375	ASP	CB-CG-OD2	-6.54	112.41	118.30
1	D	442	ARG	NE-CZ-NH1	6.54	123.57	120.30
1	H	45	ASP	CB-CG-OD2	-6.54	112.42	118.30
1	D	634	GLN	N-CA-CB	6.54	122.36	110.60
1	F	431	ARG	NE-CZ-NH1	6.54	123.57	120.30
1	O	792	ASP	CB-CG-OD2	-6.54	112.42	118.30
1	B	755	ARG	NE-CZ-NH2	-6.53	117.03	120.30
1	G	840	HIS	N-CA-CB	6.53	122.36	110.60
1	A	201	ASP	CB-CG-OD2	6.53	124.18	118.30
1	D	356	ARG	NE-CZ-NH1	6.53	123.56	120.30
1	I	411	ASP	CB-CG-OD2	-6.53	112.43	118.30
1	K	671	ASP	CB-CG-OD2	-6.52	112.43	118.30
1	O	987	ASP	CB-CG-OD1	6.52	124.17	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	287	ASP	CB-CG-OD2	-6.52	112.43	118.30
1	K	375	ASP	CB-CG-OD2	-6.52	112.43	118.30
1	J	375	ASP	CB-CG-OD2	-6.52	112.44	118.30
1	L	425	ARG	NH1-CZ-NH2	-6.52	112.23	119.40
1	I	572	ASP	CB-CG-OD1	6.52	124.17	118.30
1	B	77	ASP	CB-CG-OD2	-6.51	112.44	118.30
1	O	954	ASP	CB-CG-OD1	6.51	124.16	118.30
1	H	997	ASP	CB-CG-OD1	-6.51	112.44	118.30
1	L	598	ASP	CB-CG-OD1	-6.51	112.44	118.30
1	A	996	ASP	CB-CG-OD1	6.51	124.16	118.30
1	A	45	ASP	CB-CG-OD2	-6.51	112.44	118.30
1	D	424	ASN	N-CA-CB	-6.50	98.89	110.60
1	A	385	ASN	N-CA-CB	-6.50	98.90	110.60
1	B	792	ASP	CB-CG-OD2	-6.50	112.45	118.30
1	F	997	ASP	CB-CG-OD1	-6.50	112.45	118.30
1	I	782	ASP	CB-CG-OD2	-6.50	112.45	118.30
1	M	594	ASP	CB-CG-OD1	6.50	124.15	118.30
1	D	5	ASP	CB-CG-OD2	-6.50	112.45	118.30
1	M	828	ASP	CB-CG-OD1	-6.50	112.45	118.30
1	C	375	ASP	CB-CG-OD2	-6.49	112.46	118.30
1	I	375	ASP	CB-CG-OD1	6.49	124.14	118.30
1	N	130	ASP	CB-CG-OD2	-6.49	112.46	118.30
1	O	755	ARG	NE-CZ-NH2	-6.49	117.05	120.30
1	K	919	ASP	CB-CG-OD2	-6.49	112.46	118.30
1	E	360	HIS	C-N-CD	-6.49	106.33	120.60
1	I	45	ASP	CB-CG-OD2	-6.48	112.47	118.30
1	C	786	ARG	NE-CZ-NH2	-6.48	117.06	120.30
1	H	252	ASP	CB-CG-OD2	-6.48	112.47	118.30
1	C	15	ASP	CB-CG-OD2	-6.48	112.47	118.30
1	H	178	ARG	NE-CZ-NH1	6.48	123.54	120.30
1	I	161	TYR	CB-CG-CD2	-6.48	117.11	121.00
1	I	172	ASP	CB-CG-OD2	-6.48	112.47	118.30
1	C	571	VAL	CB-CA-C	-6.48	99.09	111.40
1	E	574	SER	CA-CB-OG	-6.48	93.71	111.20
1	F	237	ARG	NE-CZ-NH1	6.48	123.54	120.30
1	M	368	ASP	CB-CG-OD1	6.48	124.13	118.30
1	O	428	ASP	CB-CG-OD1	6.48	124.13	118.30
1	G	375	ASP	CB-CG-OD1	6.47	124.12	118.30
1	H	356	ARG	NE-CZ-NH1	6.47	123.53	120.30
1	C	429	ASP	CB-CG-OD2	-6.46	112.48	118.30
1	K	96	ASP	CB-CG-OD1	6.46	124.12	118.30
1	P	123	TYR	CB-CA-C	-6.46	97.47	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	561	ARG	NE-CZ-NH2	-6.46	117.07	120.30
1	K	52	ARG	NE-CZ-NH1	6.46	123.53	120.30
1	N	802	ASP	CB-CG-OD1	6.46	124.11	118.30
1	H	608	PHE	N-CA-CB	6.46	122.22	110.60
1	L	319	ASP	CB-CG-OD1	-6.46	112.49	118.30
1	P	916	ASP	CB-CG-OD2	-6.46	112.49	118.30
1	A	772	ASP	CB-CG-OD2	-6.45	112.49	118.30
1	E	875	ASP	CB-CG-OD2	6.45	124.11	118.30
1	D	280	ASP	CB-CG-OD2	6.45	124.10	118.30
1	D	403	ASP	CB-CG-OD1	6.45	124.10	118.30
1	K	211	ASP	CB-CG-OD2	-6.45	112.50	118.30
1	E	802	ASP	CB-CG-OD2	-6.45	112.50	118.30
1	B	569	ASP	CB-CG-OD2	6.44	124.10	118.30
1	C	569	ASP	CB-CG-OD2	6.44	124.10	118.30
1	A	45	ASP	CB-CG-OD1	6.44	124.10	118.30
1	K	211	ASP	CB-CG-OD1	6.44	124.10	118.30
1	E	447	ASP	CB-CG-OD1	6.44	124.09	118.30
1	A	287	ASP	CB-CG-OD1	6.43	124.09	118.30
1	M	802	ASP	CB-CG-OD2	-6.43	112.51	118.30
1	L	96	ASP	CB-CG-OD2	-6.43	112.51	118.30
1	A	782	ASP	CB-CG-OD1	6.43	124.09	118.30
1	J	385	ASN	CB-CA-C	-6.43	97.54	110.40
1	P	288	ARG	NE-CZ-NH2	-6.43	117.08	120.30
1	N	403	ASP	CB-CG-OD1	6.43	124.09	118.30
1	I	792	ASP	CB-CG-OD2	-6.43	112.52	118.30
1	P	869	ASP	CB-CG-OD1	-6.42	112.52	118.30
1	O	509	ASP	CB-CG-OD1	6.42	124.08	118.30
1	A	598	ASP	CB-CG-OD1	-6.42	112.52	118.30
1	B	5	ASP	CB-CG-OD2	-6.42	112.52	118.30
1	C	368	ASP	CB-CG-OD2	-6.42	112.53	118.30
1	G	610	ASP	CB-CG-OD2	6.41	124.07	118.30
1	B	82	ASP	CB-CG-OD2	-6.41	112.54	118.30
1	N	916	ASP	CB-CG-OD1	6.41	124.07	118.30
1	H	875	ASP	CB-CG-OD1	-6.40	112.54	118.30
1	J	492	ASP	CB-CG-OD1	6.40	124.06	118.30
1	O	45	ASP	CB-CG-OD2	-6.40	112.54	118.30
1	M	924	ASP	CB-CG-OD2	-6.40	112.54	118.30
1	E	356	ARG	NE-CZ-NH1	6.40	123.50	120.30
1	H	492	ASP	CB-CG-OD2	-6.40	112.54	118.30
1	A	309	TYR	CB-CG-CD1	6.39	124.84	121.00
1	B	541	ALA	CB-CA-C	6.39	119.69	110.10
1	N	987	ASP	CB-CG-OD1	6.39	124.05	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	199	ASP	CB-CG-OD2	-6.39	112.55	118.30
1	O	832	ASP	CB-CG-OD2	-6.39	112.55	118.30
1	J	13	ARG	NE-CZ-NH2	-6.39	117.11	120.30
1	M	598	ASP	CB-CG-OD1	-6.39	112.55	118.30
1	E	439	ARG	NE-CZ-NH1	6.39	123.49	120.30
1	O	69	VAL	C-N-CD	-6.39	106.55	120.60
1	O	428	ASP	CB-CG-OD2	-6.39	112.55	118.30
1	F	473	ARG	NE-CZ-NH1	6.38	123.49	120.30
1	N	411	ASP	CB-CG-OD2	-6.38	112.55	118.30
1	J	15	ASP	CB-CG-OD1	6.38	124.04	118.30
1	K	157	ARG	NE-CZ-NH1	6.38	123.49	120.30
1	D	429	ASP	CB-CG-OD1	6.38	124.04	118.30
1	D	183	ARG	NE-CZ-NH1	-6.38	117.11	120.30
1	H	659	ASP	CB-CG-OD2	-6.38	112.56	118.30
1	I	287	ASP	CB-CG-OD2	-6.38	112.56	118.30
1	C	746	ASP	CB-CG-OD1	6.38	124.04	118.30
1	A	954	ASP	CB-CG-OD2	-6.38	112.56	118.30
1	E	82	ASP	CB-CG-OD1	-6.38	112.56	118.30
1	L	828	ASP	CB-CG-OD1	-6.38	112.56	118.30
1	F	201	ASP	CB-CG-OD1	6.37	124.03	118.30
1	H	96	ASP	N-CA-CB	6.37	122.07	110.60
1	M	429	ASP	CB-CG-OD1	6.37	124.03	118.30
1	M	828	ASP	CB-CG-OD2	6.37	124.03	118.30
1	C	594	ASP	CB-CG-OD2	-6.37	112.57	118.30
1	F	973	ARG	NE-CZ-NH2	-6.37	117.11	120.30
1	O	193	ASP	CB-CG-OD1	6.37	124.03	118.30
1	G	509	ASP	CB-CG-OD2	-6.37	112.57	118.30
1	P	550	ALA	N-CA-CB	6.37	119.01	110.10
1	F	772	ASP	CB-CG-OD2	-6.36	112.57	118.30
1	H	280	ASP	CB-CG-OD1	-6.36	112.57	118.30
1	A	579	ASP	CB-CG-OD1	6.36	124.03	118.30
1	B	428	ASP	CB-CG-OD2	-6.36	112.58	118.30
1	G	507	ASP	CB-CG-OD2	-6.36	112.58	118.30
1	M	916	ASP	CB-CG-OD1	6.36	124.02	118.30
1	L	875	ASP	CB-CG-OD1	-6.36	112.58	118.30
1	A	447	ASP	CB-CG-OD2	-6.36	112.58	118.30
1	B	572	ASP	CB-CG-OD2	-6.35	112.58	118.30
1	D	403	ASP	CB-CG-OD2	-6.35	112.58	118.30
1	F	790	ASP	CB-CG-OD2	-6.35	112.58	118.30
1	H	204	ARG	NE-CZ-NH2	-6.35	117.12	120.30
1	L	572	ASP	CB-CG-OD1	6.35	124.02	118.30
1	E	37	ARG	N-CA-CB	6.35	122.03	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	375	ASP	CB-CG-OD1	6.35	124.01	118.30
1	A	147	ASN	N-CA-CB	-6.34	99.18	110.60
1	I	161	TYR	N-CA-CB	-6.34	99.18	110.60
1	D	869	ASP	CB-CG-OD1	-6.34	112.59	118.30
1	K	721	ARG	NE-CZ-NH2	-6.34	117.13	120.30
1	O	224	ASP	CB-CG-OD1	-6.34	112.59	118.30
1	J	403	ASP	CB-CG-OD1	6.34	124.01	118.30
1	A	329	ASP	CB-CG-OD1	6.34	124.00	118.30
1	H	790	ASP	CB-CG-OD2	-6.34	112.60	118.30
1	I	996	ASP	CB-CG-OD2	-6.34	112.60	118.30
1	K	648	ASP	CB-CG-OD1	6.34	124.00	118.30
1	B	333	ARG	NE-CZ-NH1	6.33	123.47	120.30
1	M	390	SER	N-CA-CB	6.33	120.00	110.50
1	K	598	ASP	CB-CG-OD1	-6.33	112.60	118.30
1	A	96	ASP	CB-CG-OD1	6.33	124.00	118.30
1	F	572	ASP	CB-CG-OD1	6.33	124.00	118.30
1	G	172	ASP	CB-CG-OD2	-6.33	112.60	118.30
1	C	997	ASP	CB-CG-OD1	-6.33	112.61	118.30
1	N	211	ASP	CB-CG-OD2	-6.33	112.61	118.30
1	C	310	ARG	NE-CZ-NH1	6.32	123.46	120.30
1	E	985	ASN	N-CA-CB	6.32	121.98	110.60
1	L	403	ASP	CB-CG-OD1	6.32	123.99	118.30
1	K	319	ASP	CB-CG-OD2	-6.32	112.61	118.30
1	K	375	ASP	CB-CG-OD1	6.32	123.99	118.30
1	B	938	ARG	N-CA-CB	6.32	121.97	110.60
1	H	786	ARG	NE-CZ-NH1	6.32	123.46	120.30
1	G	130	ASP	CB-CG-OD2	-6.31	112.62	118.30
1	M	164	ASP	CB-CG-OD1	-6.31	112.62	118.30
1	P	659	ASP	CB-CG-OD2	-6.31	112.62	118.30
1	D	52	ARG	NE-CZ-NH1	6.31	123.46	120.30
1	G	15	ASP	CB-CG-OD1	6.31	123.98	118.30
1	C	572	ASP	CB-CG-OD1	6.31	123.98	118.30
1	D	772	ASP	CB-CG-OD1	6.31	123.98	118.30
1	G	648	ASP	CB-CG-OD1	6.31	123.98	118.30
1	C	772	ASP	CB-CG-OD2	-6.31	112.62	118.30
1	L	840	HIS	N-CA-CB	6.31	121.95	110.60
1	C	802	ASP	CB-CG-OD2	-6.30	112.62	118.30
1	C	954	ASP	CB-CG-OD2	6.30	123.97	118.30
1	E	611	ARG	NE-CZ-NH2	-6.30	117.15	120.30
1	G	40	GLU	N-CA-CB	6.30	121.95	110.60
1	P	987	ASP	CB-CG-OD1	6.30	123.97	118.30
1	F	282	ARG	NE-CZ-NH1	6.30	123.45	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	210	ARG	N-CA-CB	6.30	121.94	110.60
1	G	14	ARG	NE-CZ-NH1	6.30	123.45	120.30
1	I	996	ASP	CB-CG-OD1	6.30	123.97	118.30
1	P	594	ASP	CB-CG-OD2	6.30	123.97	118.30
1	H	792	ASP	CB-CG-OD2	-6.30	112.63	118.30
1	H	569	ASP	CB-CG-OD2	6.30	123.97	118.30
1	P	130	ASP	CB-CG-OD1	6.30	123.97	118.30
1	P	329	ASP	CB-CG-OD1	6.30	123.97	118.30
1	O	881	ARG	NE-CZ-NH2	-6.29	117.15	120.30
1	P	233	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	C	996	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	F	671	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	I	479	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	C	1014	TYR	CB-CG-CD2	-6.29	117.23	121.00
1	J	832	ASP	CB-CG-OD1	6.29	123.96	118.30
1	N	375	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	O	429	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	C	859	ASP	CB-CG-OD2	-6.29	112.64	118.30
1	A	368	ASP	CB-CG-OD1	-6.28	112.64	118.30
1	K	594	ASP	CB-CG-OD2	-6.28	112.64	118.30
1	N	96	ASP	CB-CG-OD2	-6.28	112.64	118.30
1	J	919	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	K	428	ASP	CB-CG-OD1	6.28	123.95	118.30
1	G	428	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	J	802	ASP	CB-CG-OD1	6.28	123.95	118.30
1	M	497	ASP	CB-CG-OD1	6.28	123.95	118.30
1	I	428	ASP	CB-CG-OD2	-6.28	112.65	118.30
1	A	130	ASP	CB-CG-OD1	6.28	123.95	118.30
1	H	856	TYR	CG-CD2-CE2	6.28	126.32	121.30
1	L	310	ARG	NE-CZ-NH1	6.28	123.44	120.30
1	L	881	ARG	NE-CZ-NH1	6.28	123.44	120.30
1	K	82	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	B	718	GLN	CB-CA-C	6.27	122.94	110.40
1	F	533	LEU	N-CA-CB	6.27	122.94	110.40
1	E	45	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	P	919	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	A	591	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	I	199	ASP	CB-CG-OD2	-6.27	112.66	118.30
1	F	938	ARG	N-CA-CB	6.26	121.87	110.60
1	B	659	ASP	CB-CG-OD1	6.26	123.94	118.30
1	L	919	ASP	CB-CG-OD2	-6.26	112.67	118.30
1	M	492	ASP	CB-CG-OD2	-6.26	112.66	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	648	ASP	CB-CG-OD2	-6.26	112.67	118.30
1	H	172	ASP	CB-CG-OD2	-6.26	112.67	118.30
1	L	201	ASP	CB-CG-OD2	6.26	123.93	118.30
1	E	319	ASP	CB-CG-OD1	6.25	123.93	118.30
1	F	772	ASP	CB-CG-OD1	6.25	123.92	118.30
1	G	802	ASP	CB-CG-OD2	-6.25	112.68	118.30
1	H	368	ASP	CB-CG-OD2	6.25	123.92	118.30
1	O	479	ASP	CB-CG-OD1	6.25	123.92	118.30
1	H	579	ASP	CB-CG-OD1	6.24	123.92	118.30
1	A	594	ASP	CB-CG-OD1	6.24	123.92	118.30
1	O	919	ASP	CB-CG-OD2	-6.24	112.68	118.30
1	C	193	ASP	CB-CG-OD2	6.24	123.92	118.30
1	F	233	ASP	CB-CG-OD2	-6.24	112.69	118.30
1	H	59	ARG	NE-CZ-NH1	6.24	123.42	120.30
1	P	375	ASP	CB-CG-OD2	-6.24	112.69	118.30
1	E	598	ASP	CB-CG-OD2	6.23	123.91	118.30
1	I	356	ARG	NE-CZ-NH1	6.23	123.42	120.30
1	E	193	ASP	CB-CG-OD2	-6.23	112.69	118.30
1	M	403	ASP	CB-CG-OD2	-6.23	112.69	118.30
1	J	996	ASP	CB-CG-OD2	-6.23	112.69	118.30
1	M	164	ASP	N-CA-CB	6.23	121.81	110.60
1	O	329	ASP	CB-CG-OD1	6.23	123.91	118.30
1	B	411	ASP	CB-CG-OD1	6.23	123.90	118.30
1	F	130	ASP	CB-CG-OD1	6.22	123.90	118.30
1	G	639	THR	CA-CB-CG2	-6.22	103.69	112.40
1	I	746	ASP	CB-CG-OD1	6.22	123.90	118.30
1	O	479	ASP	CB-CG-OD2	-6.22	112.70	118.30
1	D	199	ASP	CB-CG-OD2	-6.22	112.70	118.30
1	I	292	ARG	NE-CZ-NH1	6.22	123.41	120.30
1	B	26	ARG	NE-CZ-NH1	6.22	123.41	120.30
1	J	916	ASP	CB-CG-OD2	-6.22	112.70	118.30
1	D	894	ARG	NE-CZ-NH1	6.22	123.41	120.30
1	H	211	ASP	CB-CG-OD2	-6.21	112.71	118.30
1	I	732	ALA	CB-CA-C	6.21	119.42	110.10
1	C	193	ASP	CB-CG-OD1	-6.21	112.71	118.30
1	J	428	ASP	CB-CG-OD2	-6.21	112.71	118.30
1	L	442	ARG	NE-CZ-NH2	-6.21	117.19	120.30
1	L	424	ASN	CB-CA-C	-6.21	97.98	110.40
1	J	329	ASP	CB-CG-OD2	-6.21	112.71	118.30
1	P	507	ASP	CB-CG-OD1	6.21	123.89	118.30
1	D	881	ARG	NE-CZ-NH1	6.20	123.40	120.30
1	L	772	ASP	CB-CG-OD1	6.20	123.88	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	411	ASP	CB-CG-OD2	-6.20	112.72	118.30
1	M	46	ARG	NE-CZ-NH1	6.20	123.40	120.30
1	P	561	ARG	NE-CZ-NH1	6.20	123.40	120.30
1	K	164	ASP	CB-CG-OD1	6.19	123.88	118.30
1	N	255	ARG	NE-CZ-NH1	6.19	123.40	120.30
1	A	96	ASP	CB-CG-OD2	-6.19	112.73	118.30
1	G	471	LEU	CA-CB-CG	-6.19	101.07	115.30
1	H	234	ASP	CB-CG-OD1	6.19	123.87	118.30
1	B	193	ASP	CB-CG-OD2	-6.19	112.73	118.30
1	F	648	ASP	CB-CG-OD2	-6.19	112.73	118.30
1	I	997	ASP	CB-CG-OD1	-6.19	112.73	118.30
1	A	869	ASP	CB-CG-OD2	-6.18	112.73	118.30
1	A	14	ARG	NE-CZ-NH1	6.18	123.39	120.30
1	G	96	ASP	CB-CG-OD1	6.18	123.86	118.30
1	D	942	ARG	NE-CZ-NH1	6.18	123.39	120.30
1	E	786	ARG	NE-CZ-NH1	6.17	123.39	120.30
1	G	424	ASN	CB-CA-C	-6.17	98.05	110.40
1	A	997	ASP	CB-CG-OD1	-6.17	112.75	118.30
1	D	469	ASP	CB-CG-OD1	6.17	123.86	118.30
1	H	164	ASP	CB-CG-OD2	-6.17	112.75	118.30
1	O	211	ASP	CB-CG-OD1	6.17	123.85	118.30
1	F	881	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	L	144	ASP	CB-CG-OD2	-6.16	112.75	118.30
1	J	424	ASN	CB-CA-C	-6.16	98.08	110.40
1	P	509	ASP	CB-CG-OD1	6.16	123.84	118.30
1	J	505	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	M	140	ARG	NE-CZ-NH2	-6.16	117.22	120.30
1	N	428	ASP	CB-CG-OD1	6.16	123.84	118.30
1	I	255	ARG	NE-CZ-NH2	-6.15	117.22	120.30
1	K	13	ARG	NE-CZ-NH2	-6.15	117.22	120.30
1	K	368	ASP	CB-CG-OD2	-6.15	112.76	118.30
1	O	786	ARG	NE-CZ-NH1	6.15	123.38	120.30
1	M	610	ASP	CB-CG-OD1	6.15	123.83	118.30
1	B	919	ASP	CB-CG-OD1	6.15	123.83	118.30
1	B	172	ASP	CB-CG-OD2	-6.15	112.77	118.30
1	A	639	THR	CA-CB-CG2	-6.14	103.80	112.40
1	F	211	ASP	CB-CG-OD1	6.14	123.83	118.30
1	M	607	VAL	N-CA-CB	6.14	125.02	111.50
1	G	255	ARG	NE-CZ-NH2	-6.14	117.23	120.30
1	A	77	ASP	CB-CG-OD2	-6.14	112.77	118.30
1	A	252	ASP	CB-CG-OD2	-6.13	112.78	118.30
1	G	492	ASP	CB-CG-OD2	-6.13	112.78	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	385	ASN	CB-CA-C	-6.13	98.13	110.40
1	J	659	ASP	CB-CG-OD2	-6.13	112.78	118.30
1	O	572	ASP	CB-CG-OD2	-6.13	112.78	118.30
1	I	875	ASP	CB-CG-OD1	-6.13	112.78	118.30
1	P	828	ASP	CB-CG-OD2	6.13	123.82	118.30
1	F	423	MET	CB-CA-C	6.13	122.66	110.40
1	K	130	ASP	CB-CG-OD1	6.13	123.81	118.30
1	B	429	ASP	CB-CG-OD1	6.13	123.81	118.30
1	M	924	ASP	CB-CG-OD1	6.13	123.81	118.30
1	D	130	ASP	CB-CG-OD2	-6.12	112.79	118.30
1	N	610	ASP	CB-CG-OD2	6.12	123.81	118.30
1	J	13	ARG	NE-CZ-NH1	6.12	123.36	120.30
1	K	319	ASP	CB-CG-OD1	6.12	123.81	118.30
1	O	233	ASP	CB-CG-OD2	-6.12	112.79	118.30
1	F	800	ARG	NE-CZ-NH2	-6.12	117.24	120.30
1	A	447	ASP	CB-CG-OD1	6.12	123.81	118.30
1	B	509	ASP	CB-CG-OD1	6.12	123.81	118.30
1	I	252	ASP	CB-CG-OD1	6.12	123.81	118.30
1	N	802	ASP	CB-CG-OD2	-6.12	112.79	118.30
1	L	252	ASP	CB-CG-OD2	-6.12	112.80	118.30
1	E	206	SER	N-CA-CB	6.11	119.67	110.50
1	L	15	ASP	CB-CG-OD1	6.11	123.80	118.30
1	P	251	ARG	NE-CZ-NH1	6.11	123.36	120.30
1	A	78	LEU	C-N-CD	-6.11	107.17	120.60
1	B	492	ASP	CB-CG-OD2	-6.11	112.80	118.30
1	L	645	ARG	NE-CZ-NH2	-6.11	117.25	120.30
1	L	760	ARG	NE-CZ-NH1	6.11	123.35	120.30
1	N	917	ARG	NE-CZ-NH2	-6.10	117.25	120.30
1	P	130	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	P	802	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	E	987	ASP	CB-CG-OD1	6.10	123.79	118.30
1	G	96	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	I	319	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	O	497	ASP	CB-CG-OD1	6.10	123.79	118.30
1	D	919	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	F	996	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	G	501	PRO	N-CA-CB	6.10	110.62	103.30
1	P	363	HIS	CA-CB-CG	-6.10	103.23	113.60
1	D	916	ASP	CB-CG-OD1	6.10	123.79	118.30
1	L	648	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	C	497	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	H	233	ASP	CB-CG-OD2	-6.10	112.81	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	224	ASP	CB-CG-OD1	-6.09	112.82	118.30
1	J	375	ASP	CB-CG-OD1	6.09	123.78	118.30
1	C	15	ASP	CB-CG-OD1	6.09	123.78	118.30
1	D	14	ARG	NE-CZ-NH1	6.09	123.34	120.30
1	E	505	ARG	NE-CZ-NH2	-6.09	117.26	120.30
1	C	828	ASP	CB-CG-OD2	-6.08	112.82	118.30
1	G	809	ARG	NE-CZ-NH1	6.08	123.34	120.30
1	J	610	ASP	CB-CG-OD1	-6.08	112.82	118.30
1	E	233	ASP	CB-CG-OD2	-6.08	112.83	118.30
1	E	919	ASP	CB-CG-OD2	-6.08	112.83	118.30
1	P	96	ASP	N-CA-CB	6.08	121.55	110.60
1	H	996	ASP	CB-CG-OD1	6.08	123.77	118.30
1	F	828	ASP	CB-CG-OD2	6.07	123.77	118.30
1	O	800	ARG	NE-CZ-NH2	-6.07	117.26	120.30
1	D	914	CYS	N-CA-CB	6.07	121.53	110.60
1	C	251	ARG	NE-CZ-NH2	-6.07	117.27	120.30
1	E	287	ASP	CB-CG-OD2	-6.07	112.84	118.30
1	M	876	THR	N-CA-CB	6.07	121.83	110.30
1	O	591	ASP	CB-CG-OD2	-6.07	112.84	118.30
1	O	199	ASP	CB-CG-OD2	-6.06	112.84	118.30
1	E	224	ASP	CB-CG-OD2	6.06	123.76	118.30
1	L	772	ASP	CB-CG-OD2	-6.06	112.84	118.30
1	D	287	ASP	CB-CG-OD2	-6.06	112.85	118.30
1	F	144	ASP	CB-CG-OD2	-6.06	112.85	118.30
1	H	15	ASP	CB-CG-OD2	-6.06	112.85	118.30
1	N	569	ASP	CB-CG-OD2	-6.06	112.85	118.30
1	C	782	ASP	CB-CG-OD1	6.06	123.75	118.30
1	D	375	ASP	CB-CG-OD1	6.06	123.75	118.30
1	P	310	ARG	N-CA-CB	6.06	121.50	110.60
1	D	639	THR	CA-CB-CG2	-6.05	103.92	112.40
1	M	786	ARG	NE-CZ-NH2	-6.05	117.27	120.30
1	M	473	ARG	NE-CZ-NH1	6.05	123.33	120.30
1	A	230	ARG	NE-CZ-NH2	-6.05	117.27	120.30
1	I	130	ASP	CB-CG-OD2	-6.05	112.86	118.30
1	O	140	ARG	NE-CZ-NH1	6.05	123.33	120.30
1	J	356	ARG	NE-CZ-NH1	6.05	123.32	120.30
1	K	46	ARG	NE-CZ-NH1	6.05	123.32	120.30
1	M	252	ASP	CB-CG-OD2	-6.05	112.86	118.30
1	J	429	ASP	CB-CG-OD1	6.04	123.74	118.30
1	B	908	ASP	CB-CG-OD2	-6.04	112.86	118.30
1	B	809	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	M	917	ARG	NE-CZ-NH2	-6.04	117.28	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	172	ASP	CB-CG-OD1	6.04	123.74	118.30
1	F	280	ASP	CB-CG-OD1	-6.04	112.87	118.30
1	O	77	ASP	CB-CG-OD1	6.04	123.73	118.30
1	E	645	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	J	144	ASP	CB-CG-OD2	-6.04	112.87	118.30
1	O	909	ARG	NE-CZ-NH2	-6.04	117.28	120.30
1	P	569	ASP	CB-CG-OD1	-6.04	112.87	118.30
1	D	760	ARG	NE-CZ-NH2	-6.03	117.28	120.30
1	M	782	ASP	CB-CG-OD2	6.03	123.73	118.30
1	M	881	ARG	NE-CZ-NH1	6.03	123.31	120.30
1	N	375	ASP	CB-CG-OD1	6.03	123.73	118.30
1	B	760	ARG	NE-CZ-NH1	6.03	123.31	120.30
1	L	916	ASP	CB-CG-OD1	6.03	123.73	118.30
1	A	336	ARG	CB-CA-C	-6.03	98.35	110.40
1	D	385	ASN	N-CA-CB	-6.03	99.75	110.60
1	H	100	TYR	N-CA-CB	6.03	121.45	110.60
1	P	190	ARG	NE-CZ-NH1	6.02	123.31	120.30
1	A	144	ASP	CB-CG-OD1	6.02	123.72	118.30
1	G	492	ASP	CB-CG-OD1	6.02	123.72	118.30
1	N	591	ASP	CB-CG-OD2	-6.02	112.88	118.30
1	D	319	ASP	CB-CG-OD1	-6.01	112.89	118.30
1	I	178	ARG	NE-CZ-NH2	-6.01	117.29	120.30
1	O	869	ASP	CB-CG-OD2	6.01	123.71	118.30
1	H	193	ASP	CB-CG-OD1	-6.01	112.89	118.30
1	P	572	ASP	CB-CG-OD2	-6.01	112.89	118.30
1	B	411	ASP	CB-CG-OD2	-6.01	112.89	118.30
1	B	144	ASP	CB-CG-OD2	-6.01	112.89	118.30
1	K	802	ASP	CB-CG-OD1	6.00	123.70	118.30
1	C	630	ARG	NE-CZ-NH1	6.00	123.30	120.30
1	I	236	SER	N-CA-CB	6.00	119.50	110.50
1	N	172	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	E	938	ARG	NE-CZ-NH2	-6.00	117.30	120.30
1	F	425	ARG	NE-CZ-NH1	6.00	123.30	120.30
1	N	385	ASN	CB-CA-C	-6.00	98.40	110.40
1	K	5	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	E	916	ASP	CB-CG-OD2	6.00	123.70	118.30
1	P	598	ASP	CB-CG-OD1	-6.00	112.90	118.30
1	B	630	ARG	NE-CZ-NH1	5.99	123.30	120.30
1	F	287	ASP	CB-CG-OD2	-5.99	112.91	118.30
1	J	280	ASP	CB-CG-OD2	5.99	123.69	118.30
1	L	919	ASP	CB-CG-OD1	5.99	123.69	118.30
1	M	916	ASP	CB-CG-OD2	-5.99	112.91	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	280	ASP	CB-CG-OD2	5.99	123.69	118.30
1	P	946	TYR	CB-CG-CD2	-5.99	117.41	121.00
1	H	190	ARG	NE-CZ-NH1	5.99	123.30	120.30
1	D	685	LEU	C-N-CD	-5.99	107.43	120.60
1	P	591	ASP	CB-CG-OD2	-5.98	112.92	118.30
1	F	792	ASP	CB-CG-OD2	-5.98	112.92	118.30
1	G	659	ASP	CB-CG-OD1	5.98	123.68	118.30
1	F	648	ASP	CB-CG-OD1	5.97	123.68	118.30
1	N	924	ASP	CB-CG-OD1	5.97	123.68	118.30
1	A	790	ASP	CB-CG-OD2	-5.97	112.93	118.30
1	M	569	ASP	CB-CG-OD2	5.97	123.67	118.30
1	G	908	ASP	CB-CG-OD1	5.97	123.67	118.30
1	H	90	TRP	CB-CA-C	5.97	122.33	110.40
1	A	569	ASP	CB-CG-OD2	5.96	123.67	118.30
1	F	233	ASP	CB-CG-OD1	5.96	123.67	118.30
1	A	193	ASP	CB-CG-OD2	-5.96	112.93	118.30
1	D	914	CYS	CB-CA-C	5.96	122.32	110.40
1	D	954	ASP	CB-CG-OD1	5.96	123.67	118.30
1	D	479	ASP	CB-CG-OD1	5.96	123.66	118.30
1	M	938	ARG	NE-CZ-NH2	-5.96	117.32	120.30
1	K	569	ASP	CB-CG-OD1	-5.96	112.94	118.30
1	O	924	ASP	CB-CG-OD1	5.96	123.66	118.30
1	J	252	ASP	CB-CG-OD2	-5.95	112.94	118.30
1	H	77	ASP	CB-CG-OD2	-5.95	112.94	118.30
1	A	792	ASP	CB-CG-OD1	5.95	123.66	118.30
1	E	411	ASP	CB-CG-OD2	-5.95	112.95	118.30
1	N	901	GLY	C-N-CD	-5.95	107.51	120.60
1	P	996	ASP	CB-CG-OD2	-5.95	112.95	118.30
1	J	894	ARG	NE-CZ-NH1	5.95	123.27	120.30
1	K	479	ASP	CB-CG-OD2	-5.95	112.95	118.30
1	M	1004	SER	N-CA-CB	5.95	119.42	110.50
1	A	144	ASP	CB-CG-OD2	-5.94	112.95	118.30
1	J	772	ASP	CB-CG-OD1	5.94	123.65	118.30
1	C	189	LEU	N-CA-CB	5.94	122.28	110.40
1	M	14	ARG	NE-CZ-NH2	-5.94	117.33	120.30
1	A	193	ASP	CB-CG-OD1	5.94	123.65	118.30
1	I	908	ASP	CB-CG-OD2	-5.94	112.95	118.30
1	M	875	ASP	CB-CG-OD2	5.94	123.65	118.30
1	L	448	ARG	NE-CZ-NH2	-5.94	117.33	120.30
1	J	869	ASP	CB-CG-OD2	5.94	123.64	118.30
1	P	190	ARG	NE-CZ-NH2	-5.94	117.33	120.30
1	P	772	ASP	CB-CG-OD1	5.94	123.64	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	671	ASP	CB-CG-OD1	5.94	123.64	118.30
1	C	237	ARG	NE-CZ-NH1	5.93	123.27	120.30
1	E	908	ASP	CB-CG-OD2	-5.93	112.96	118.30
1	E	746	ASP	CB-CG-OD1	5.93	123.64	118.30
1	O	144	ASP	CB-CG-OD2	-5.93	112.96	118.30
1	G	45	ASP	CB-CG-OD1	5.93	123.64	118.30
1	G	147	ASN	N-CA-CB	-5.93	99.93	110.60
1	N	772	ASP	CB-CG-OD2	-5.93	112.97	118.30
1	N	894	ARG	NE-CZ-NH2	-5.93	117.34	120.30
1	O	908	ASP	CB-CG-OD2	-5.93	112.97	118.30
1	P	497	ASP	CB-CG-OD1	5.93	123.63	118.30
1	B	96	ASP	CB-CG-OD1	5.92	123.63	118.30
1	H	164	ASP	N-CA-CB	5.92	121.26	110.60
1	L	251	ARG	NE-CZ-NH2	-5.92	117.34	120.30
1	A	292	ARG	NE-CZ-NH1	5.92	123.26	120.30
1	I	610	ASP	CB-CG-OD1	-5.92	112.97	118.30
1	A	659	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	B	130	ASP	CB-CG-OD2	-5.92	112.98	118.30
1	D	579	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	E	667	GLU	N-CA-CB	5.92	121.25	110.60
1	J	172	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	O	255	ARG	NE-CZ-NH2	-5.92	117.34	120.30
1	G	442	ARG	NE-CZ-NH1	5.91	123.26	120.30
1	J	100	TYR	N-CA-CB	5.91	121.24	110.60
1	F	339	ASN	N-CA-CB	-5.91	99.96	110.60
1	O	193	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	F	251	ARG	NE-CZ-NH2	-5.91	117.34	120.30
1	I	403	ASP	CB-CG-OD1	5.91	123.62	118.30
1	O	5	ASP	CB-CG-OD1	5.91	123.62	118.30
1	P	786	ARG	NE-CZ-NH2	-5.91	117.35	120.30
1	L	288	ARG	NE-CZ-NH2	-5.91	117.35	120.30
1	L	792	ASP	CB-CG-OD1	-5.91	112.98	118.30
1	A	428	ASP	CB-CG-OD1	5.90	123.61	118.30
1	M	280	ASP	CB-CG-OD1	-5.90	112.99	118.30
1	F	838	THR	CA-CB-CG2	-5.90	104.14	112.40
1	H	497	ASP	CB-CG-OD1	5.90	123.61	118.30
1	L	253	TYR	CB-CG-CD1	-5.90	117.46	121.00
1	N	952	ARG	NE-CZ-NH1	5.90	123.25	120.30
1	P	59	ARG	NE-CZ-NH1	5.90	123.25	120.30
1	J	204	ARG	NE-CZ-NH2	-5.90	117.35	120.30
1	D	855	THR	N-CA-CB	5.90	121.51	110.30
1	A	598	ASP	CB-CG-OD2	5.90	123.61	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	914	CYS	N-CA-CB	5.89	121.21	110.60
1	J	538	TYR	CB-CG-CD2	-5.89	117.46	121.00
1	B	230	ARG	NE-CZ-NH2	-5.89	117.35	120.30
1	C	671	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	C	824	GLN	N-CA-CB	-5.89	99.99	110.60
1	G	411	ASP	CB-CG-OD1	5.89	123.60	118.30
1	K	329	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	F	52	ARG	NE-CZ-NH1	5.89	123.25	120.30
1	J	43	ARG	NE-CZ-NH2	-5.89	117.36	120.30
1	N	497	ASP	CB-CG-OD1	5.89	123.60	118.30
1	N	853	ARG	NE-CZ-NH1	5.89	123.24	120.30
1	C	77	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	H	954	ASP	CB-CG-OD1	5.89	123.60	118.30
1	E	15	ASP	CB-CG-OD2	5.88	123.59	118.30
1	H	96	ASP	CB-CG-OD2	-5.88	113.00	118.30
1	F	832	ASP	CB-CG-OD2	-5.88	113.00	118.30
1	G	569	ASP	CB-CG-OD1	-5.88	113.00	118.30
1	I	579	ASP	CB-CG-OD2	-5.88	113.01	118.30
1	O	224	ASP	CB-CG-OD2	5.88	123.59	118.30
1	A	916	ASP	CB-CG-OD2	-5.87	113.01	118.30
1	F	336	ARG	NE-CZ-NH1	5.87	123.24	120.30
1	D	77	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	F	126	THR	CA-CB-CG2	-5.87	104.18	112.40
1	L	737	ILE	N-CA-CB	5.87	124.30	110.80
1	I	782	ASP	CB-CG-OD1	5.87	123.58	118.30
1	N	234	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	B	869	ASP	CB-CG-OD1	-5.87	113.02	118.30
1	F	497	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	G	59	ARG	NE-CZ-NH1	5.87	123.23	120.30
1	H	553	TRP	CA-CB-CG	-5.87	102.55	113.70
1	B	497	ASP	CB-CG-OD1	5.87	123.58	118.30
1	J	447	ASP	CB-CG-OD1	5.86	123.58	118.30
1	O	610	ASP	CB-CG-OD1	-5.86	113.03	118.30
1	H	403	ASP	CB-CG-OD2	-5.86	113.03	118.30
1	P	917	ARG	NE-CZ-NH2	-5.86	117.37	120.30
1	D	579	ASP	CB-CG-OD1	5.86	123.57	118.30
1	P	439	ARG	NE-CZ-NH2	-5.86	117.37	120.30
1	B	190	ARG	NE-CZ-NH1	5.85	123.23	120.30
1	D	987	ASP	CB-CG-OD2	-5.85	113.03	118.30
1	A	224	ASP	CB-CG-OD2	5.85	123.56	118.30
1	B	832	ASP	CB-CG-OD2	-5.85	113.03	118.30
1	K	987	ASP	CB-CG-OD2	-5.85	113.03	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	760	ARG	NE-CZ-NH1	5.85	123.22	120.30
1	F	428	ASP	CB-CG-OD2	-5.85	113.04	118.30
1	L	82	ASP	CB-CG-OD1	5.85	123.56	118.30
1	P	178	ARG	NE-CZ-NH1	5.85	123.22	120.30
1	G	92	MET	CG-SD-CE	-5.84	90.85	100.20
1	G	333	ARG	NE-CZ-NH1	5.84	123.22	120.30
1	J	368	ASP	CB-CG-OD1	5.84	123.56	118.30
1	M	233	ASP	CB-CG-OD1	5.84	123.56	118.30
1	F	746	ASP	CB-CG-OD1	5.84	123.56	118.30
1	N	987	ASP	CB-CG-OD2	-5.84	113.04	118.30
1	O	388	ARG	NE-CZ-NH2	-5.84	117.38	120.30
1	L	183	ARG	NE-CZ-NH1	5.84	123.22	120.30
1	J	287	ASP	CB-CG-OD1	5.84	123.55	118.30
1	B	772	ASP	CB-CG-OD1	5.84	123.55	118.30
1	D	792	ASP	CB-CG-OD1	5.84	123.55	118.30
1	M	996	ASP	CB-CG-OD2	-5.84	113.05	118.30
1	N	792	ASP	CB-CG-OD1	5.83	123.55	118.30
1	A	611	ARG	NE-CZ-NH1	5.83	123.22	120.30
1	C	1014	TYR	CA-CB-CG	-5.83	102.32	113.40
1	H	448	ARG	NE-CZ-NH1	5.83	123.22	120.30
1	B	59	ARG	NE-CZ-NH1	5.83	123.21	120.30
1	C	908	ASP	CB-CG-OD1	5.83	123.55	118.30
1	J	5	ASP	CB-CG-OD1	5.83	123.55	118.30
1	K	429	ASP	CB-CG-OD1	5.83	123.55	118.30
1	K	916	ASP	CB-CG-OD1	-5.83	113.06	118.30
1	L	875	ASP	CB-CG-OD2	5.83	123.54	118.30
1	N	997	ASP	CB-CG-OD1	-5.83	113.06	118.30
1	K	172	ASP	CB-CG-OD2	-5.82	113.06	118.30
1	M	395	HIS	C-N-CD	-5.82	107.79	120.60
1	O	368	ASP	CB-CG-OD1	5.82	123.54	118.30
1	N	569	ASP	CB-CG-OD1	5.82	123.54	118.30
1	J	130	ASP	CB-CG-OD2	-5.82	113.06	118.30
1	N	147	ASN	N-CA-CB	-5.82	100.12	110.60
1	K	594	ASP	CB-CG-OD1	5.82	123.54	118.30
1	I	473	ARG	NE-CZ-NH2	-5.82	117.39	120.30
1	K	875	ASP	CB-CG-OD1	-5.82	113.06	118.30
1	L	429	ASP	CB-CG-OD1	5.82	123.54	118.30
1	A	838	THR	CA-CB-CG2	-5.82	104.26	112.40
1	B	973	ARG	NE-CZ-NH2	-5.82	117.39	120.30
1	M	43	ARG	NE-CZ-NH2	-5.82	117.39	120.30
1	J	234	ASP	CB-CG-OD2	-5.81	113.07	118.30
1	F	659	ASP	CB-CG-OD1	5.81	123.53	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	172	ASP	CB-CG-OD1	5.81	123.53	118.30
1	F	237	ARG	NE-CZ-NH2	-5.80	117.40	120.30
1	J	961	ARG	NE-CZ-NH2	-5.80	117.40	120.30
1	N	1010	SER	N-CA-CB	-5.80	101.79	110.50
1	A	52	ARG	NE-CZ-NH2	-5.80	117.40	120.30
1	K	908	ASP	CB-CG-OD1	5.80	123.52	118.30
1	A	479	ASP	CB-CG-OD2	-5.80	113.08	118.30
1	E	492	ASP	CB-CG-OD2	-5.79	113.08	118.30
1	F	505	ARG	NE-CZ-NH1	5.79	123.20	120.30
1	K	961	ARG	NE-CZ-NH2	-5.79	117.40	120.30
1	B	92	MET	CG-SD-CE	-5.79	90.93	100.20
1	D	919	ASP	CB-CG-OD1	5.79	123.51	118.30
1	F	553	TRP	CA-CB-CG	-5.79	102.69	113.70
1	M	428	ASP	CB-CG-OD2	-5.79	113.09	118.30
1	N	15	ASP	CB-CG-OD1	5.79	123.51	118.30
1	F	14	ARG	NE-CZ-NH2	-5.79	117.41	120.30
1	E	598	ASP	CB-CG-OD1	-5.79	113.09	118.30
1	P	280	ASP	CB-CG-OD1	-5.79	113.09	118.30
1	A	224	ASP	CB-CG-OD1	-5.79	113.09	118.30
1	F	164	ASP	CB-CG-OD1	5.79	123.51	118.30
1	F	199	ASP	CB-CG-OD1	5.79	123.51	118.30
1	G	938	ARG	CD-NE-CZ	5.78	131.70	123.60
1	H	857	ARG	NE-CZ-NH2	-5.78	117.41	120.30
1	B	800	ARG	NE-CZ-NH2	-5.78	117.41	120.30
1	M	859	ASP	CB-CG-OD2	-5.78	113.10	118.30
1	G	591	ASP	CB-CG-OD1	5.78	123.50	118.30
1	D	519	SER	N-CA-CB	-5.78	101.83	110.50
1	H	579	ASP	CB-CG-OD2	-5.78	113.10	118.30
1	B	424	ASN	CB-CA-C	-5.78	98.85	110.40
1	H	916	ASP	CB-CG-OD1	-5.77	113.10	118.30
1	H	505	ARG	NE-CZ-NH1	5.77	123.19	120.30
1	J	792	ASP	CB-CG-OD1	5.77	123.50	118.30
1	M	388	ARG	NE-CZ-NH1	5.77	123.19	120.30
1	O	447	ASP	CB-CG-OD2	-5.77	113.11	118.30
1	A	648	ASP	CB-CG-OD1	5.77	123.49	118.30
1	M	594	ASP	CB-CG-OD2	-5.77	113.11	118.30
1	F	809	ARG	NE-CZ-NH2	-5.77	117.42	120.30
1	J	230	ARG	NE-CZ-NH2	-5.77	117.42	120.30
1	O	598	ASP	CB-CG-OD2	5.76	123.49	118.30
1	A	5	ASP	CB-CG-OD2	-5.76	113.11	118.30
1	C	591	ASP	CB-CG-OD2	-5.76	113.11	118.30
1	E	859	ASP	CB-CG-OD2	-5.76	113.11	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	199	ASP	CB-CG-OD2	-5.76	113.11	118.30
1	O	832	ASP	CB-CG-OD1	5.76	123.48	118.30
1	F	280	ASP	CB-CG-OD2	5.76	123.48	118.30
1	P	46	ARG	NE-CZ-NH1	5.75	123.18	120.30
1	F	509	ASP	CB-CG-OD1	5.75	123.47	118.30
1	G	856	TYR	N-CA-CB	5.75	120.95	110.60
1	K	919	ASP	CB-CG-OD1	5.75	123.47	118.30
1	G	591	ASP	CB-CG-OD2	-5.75	113.13	118.30
1	G	827	ALA	CB-CA-C	5.75	118.72	110.10
1	I	384	PHE	CB-CG-CD2	-5.75	116.78	120.80
1	J	479	ASP	CB-CG-OD1	5.75	123.47	118.30
1	N	579	ASP	CB-CG-OD1	5.75	123.47	118.30
1	O	507	ASP	CB-CG-OD2	-5.75	113.13	118.30
1	N	43	ARG	NE-CZ-NH1	5.75	123.17	120.30
1	P	26	ARG	NE-CZ-NH1	5.75	123.17	120.30
1	A	533	LEU	CB-CA-C	5.74	121.11	110.20
1	H	755	ARG	NE-CZ-NH2	-5.74	117.43	120.30
1	E	802	ASP	CB-CG-OD1	5.74	123.47	118.30
1	K	140	ARG	NE-CZ-NH2	-5.74	117.43	120.30
1	L	399	TYR	CB-CG-CD2	5.74	124.44	121.00
1	P	809	ARG	NE-CZ-NH2	-5.74	117.43	120.30
1	E	368	ASP	CB-CG-OD1	5.74	123.46	118.30
1	B	210	ARG	N-CA-CB	5.73	120.92	110.60
1	D	610	ASP	CB-CG-OD1	-5.73	113.14	118.30
1	J	924	ASP	CB-CG-OD1	5.73	123.46	118.30
1	K	233	ASP	CB-CG-OD1	5.73	123.46	118.30
1	P	67	GLU	N-CA-CB	-5.73	100.28	110.60
1	B	90	TRP	CB-CA-C	5.73	121.85	110.40
1	A	507	ASP	CB-CG-OD2	-5.72	113.15	118.30
1	B	252	ASP	CB-CG-OD2	-5.72	113.15	118.30
1	I	45	ASP	CB-CG-OD1	5.72	123.45	118.30
1	C	648	ASP	CB-CG-OD2	-5.72	113.15	118.30
1	E	479	ASP	CB-CG-OD1	5.72	123.45	118.30
1	F	17	GLU	N-CA-CB	5.72	120.90	110.60
1	K	772	ASP	CB-CG-OD1	5.72	123.45	118.30
1	P	1004	SER	N-CA-CB	5.72	119.08	110.50
1	P	828	ASP	CB-CG-OD1	-5.72	113.15	118.30
1	I	59	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	L	531	ARG	CD-NE-CZ	-5.72	115.59	123.60
1	L	319	ASP	CB-CG-OD2	5.72	123.44	118.30
1	C	671	ASP	CB-CG-OD1	5.71	123.44	118.30
1	M	391	HIS	N-CA-C	5.71	126.43	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	45	ASP	CB-CG-OD2	-5.71	113.16	118.30
1	B	5	ASP	CB-CG-OD1	5.71	123.44	118.30
1	F	787	ALA	C-N-CD	-5.71	108.04	120.60
1	P	252	ASP	CB-CG-OD2	-5.71	113.16	118.30
1	N	85	VAL	CA-CB-CG2	-5.71	102.34	110.90
1	N	329	ASP	CB-CG-OD2	-5.71	113.16	118.30
1	E	172	ASP	CB-CG-OD2	-5.71	113.17	118.30
1	E	574	SER	CB-CA-C	-5.70	99.26	110.10
1	E	43	ARG	NE-CZ-NH2	-5.70	117.45	120.30
1	H	199	ASP	CB-CG-OD1	5.70	123.43	118.30
1	I	388	ARG	NE-CZ-NH2	5.70	123.15	120.30
1	L	130	ASP	CB-CG-OD1	5.70	123.43	118.30
1	N	368	ASP	CB-CG-OD1	5.70	123.43	118.30
1	J	786	ARG	NE-CZ-NH1	5.70	123.15	120.30
1	O	792	ASP	CB-CG-OD1	5.70	123.43	118.30
1	K	809	ARG	NE-CZ-NH2	-5.69	117.45	120.30
1	H	23	GLN	N-CA-CB	5.69	120.84	110.60
1	J	671	ASP	CB-CG-OD2	-5.69	113.18	118.30
1	M	333	ARG	NE-CZ-NH1	5.69	123.14	120.30
1	M	390	SER	O-C-N	5.69	131.80	122.70
1	G	859	ASP	CB-CG-OD1	5.69	123.42	118.30
1	M	59	ARG	NE-CZ-NH1	5.68	123.14	120.30
1	E	442	ARG	NE-CZ-NH1	5.68	123.14	120.30
1	K	303	ALA	CB-CA-C	5.68	118.62	110.10
1	M	281	GLU	CG-CD-OE2	5.68	129.66	118.30
1	L	100	TYR	N-CA-CB	5.68	120.82	110.60
1	N	5	ASP	CB-CG-OD2	-5.68	113.19	118.30
1	H	215	LEU	CB-CA-C	5.68	120.98	110.20
1	A	352	ARG	C-N-CA	-5.67	110.38	122.30
1	G	916	ASP	CB-CG-OD1	5.67	123.41	118.30
1	H	38	ASN	N-CA-CB	5.67	120.81	110.60
1	L	802	ASP	CB-CG-OD1	5.67	123.41	118.30
1	P	424	ASN	CA-CB-CG	-5.67	100.91	113.40
1	H	648	ASP	CB-CG-OD1	5.67	123.41	118.30
1	G	172	ASP	CB-CG-OD1	5.67	123.41	118.30
1	I	442	ARG	NE-CZ-NH2	-5.67	117.47	120.30
1	K	45	ASP	CB-CG-OD2	-5.67	113.20	118.30
1	D	924	ASP	CB-CG-OD1	5.67	123.40	118.30
1	J	287	ASP	CB-CG-OD2	-5.67	113.20	118.30
1	P	645	ARG	NE-CZ-NH1	5.67	123.13	120.30
1	G	699	ARG	NE-CZ-NH1	5.66	123.13	120.30
1	H	429	ASP	CB-CG-OD2	-5.66	113.20	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	356	ARG	NE-CZ-NH2	-5.66	117.47	120.30
1	F	659	ASP	CB-CG-OD2	-5.66	113.21	118.30
1	P	319	ASP	CB-CG-OD1	5.66	123.39	118.30
1	C	569	ASP	CB-CG-OD1	-5.66	113.21	118.30
1	D	594	ASP	CB-CG-OD1	5.66	123.39	118.30
1	M	509	ASP	CB-CG-OD1	5.66	123.39	118.30
1	M	792	ASP	CB-CG-OD1	5.66	123.39	118.30
1	O	987	ASP	CB-CG-OD2	-5.66	113.21	118.30
1	P	237	ARG	NE-CZ-NH2	-5.65	117.47	120.30
1	B	233	ASP	CB-CG-OD1	5.65	123.39	118.30
1	G	497	ASP	CB-CG-OD2	-5.65	113.21	118.30
1	M	572	ASP	CB-CG-OD1	-5.65	113.21	118.30
1	C	987	ASP	CB-CG-OD1	5.65	123.39	118.30
1	G	561	ARG	NE-CZ-NH1	5.65	123.12	120.30
1	N	482	ARG	NE-CZ-NH2	-5.65	117.47	120.30
1	P	100	TYR	N-CA-CB	5.65	120.77	110.60
1	P	403	ASP	CB-CG-OD1	5.65	123.39	118.30
1	D	800	ARG	NE-CZ-NH2	-5.65	117.47	120.30
1	H	828	ASP	CB-CG-OD2	5.65	123.38	118.30
1	G	768	MET	CB-CA-C	5.65	121.69	110.40
1	D	224	ASP	CB-CG-OD1	-5.64	113.22	118.30
1	D	792	ASP	CB-CG-OD2	-5.64	113.22	118.30
1	K	385	ASN	CB-CA-C	-5.64	99.11	110.40
1	N	802	ASP	N-CA-CB	5.64	120.76	110.60
1	B	916	ASP	CB-CG-OD2	-5.64	113.22	118.30
1	O	140	ARG	NE-CZ-NH2	-5.64	117.48	120.30
1	H	172	ASP	CB-CG-OD1	5.63	123.37	118.30
1	L	394	ASN	CB-CA-C	-5.63	99.13	110.40
1	O	569	ASP	CB-CG-OD2	5.63	123.37	118.30
1	N	233	ASP	CB-CG-OD2	-5.63	113.23	118.30
1	O	531	ARG	NH1-CZ-NH2	-5.63	113.21	119.40
1	P	282	ARG	NE-CZ-NH1	5.63	123.11	120.30
1	B	234	ASP	CB-CG-OD2	-5.63	113.23	118.30
1	B	782	ASP	CB-CG-OD2	5.63	123.36	118.30
1	F	5	ASP	CB-CG-OD2	-5.63	113.24	118.30
1	G	5	ASP	CB-CG-OD1	5.63	123.36	118.30
1	C	163	GLN	N-CA-CB	5.62	120.72	110.60
1	L	404	ARG	NE-CZ-NH2	-5.62	117.49	120.30
1	M	909	ARG	N-CA-CB	5.62	120.72	110.60
1	N	199	ASP	CB-CG-OD1	5.62	123.36	118.30
1	N	252	ASP	CB-CG-OD2	-5.62	113.24	118.30
1	D	428	ASP	CB-CG-OD2	-5.62	113.24	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	881	ARG	NE-CZ-NH1	5.62	123.11	120.30
1	A	723	ALA	CB-CA-C	-5.62	101.68	110.10
1	P	987	ASP	CB-CG-OD2	-5.62	113.25	118.30
1	I	439	ARG	NE-CZ-NH1	5.61	123.11	120.30
1	N	329	ASP	CB-CG-OD1	5.61	123.35	118.30
1	N	388	ARG	NE-CZ-NH2	5.61	123.11	120.30
1	P	954	ASP	CB-CG-OD1	5.61	123.35	118.30
1	G	282	ARG	NE-CZ-NH2	-5.61	117.49	120.30
1	C	561	ARG	NE-CZ-NH1	5.61	123.11	120.30
1	C	869	ASP	CB-CG-OD2	5.61	123.35	118.30
1	D	942	ARG	NE-CZ-NH2	-5.61	117.50	120.30
1	J	568	TRP	C-N-CA	5.61	135.72	121.70
1	H	310	ARG	N-CA-CB	5.61	120.69	110.60
1	O	130	ASP	CB-CG-OD1	5.61	123.35	118.30
1	O	411	ASP	CB-CG-OD2	-5.61	113.25	118.30
1	D	101	THR	N-CA-CB	5.61	120.95	110.30
1	D	809	ARG	NE-CZ-NH2	-5.61	117.50	120.30
1	F	857	ARG	NE-CZ-NH2	-5.61	117.50	120.30
1	A	172	ASP	CB-CG-OD1	5.60	123.34	118.30
1	E	130	ASP	CB-CG-OD1	5.60	123.34	118.30
1	G	402	CYS	N-CA-CB	5.60	120.68	110.60
1	D	252	ASP	CB-CG-OD2	-5.60	113.26	118.30
1	A	15	ASP	CB-CG-OD1	5.60	123.34	118.30
1	A	442	ARG	NE-CZ-NH1	5.60	123.10	120.30
1	E	233	ASP	CB-CG-OD1	5.60	123.34	118.30
1	D	96	ASP	CB-CG-OD2	-5.59	113.27	118.30
1	L	352	ARG	C-N-CA	-5.59	110.55	122.30
1	G	429	ASP	CB-CG-OD2	-5.59	113.27	118.30
1	G	875	ASP	CB-CG-OD1	-5.59	113.27	118.30
1	F	802	ASP	CB-CG-OD2	-5.59	113.27	118.30
1	G	909	ARG	NE-CZ-NH1	5.59	123.09	120.30
1	J	282	ARG	NE-CZ-NH2	-5.59	117.51	120.30
1	K	482	ARG	NE-CZ-NH2	-5.59	117.51	120.30
1	D	59	ARG	NE-CZ-NH1	5.58	123.09	120.30
1	G	538	TYR	CB-CG-CD1	5.58	124.35	121.00
1	G	894	ARG	NE-CZ-NH2	-5.58	117.51	120.30
1	H	772	ASP	CB-CG-OD2	-5.58	113.28	118.30
1	O	473	ARG	NE-CZ-NH1	5.58	123.09	120.30
1	C	431	ARG	NE-CZ-NH1	5.57	123.09	120.30
1	H	659	ASP	CB-CG-OD1	5.57	123.31	118.30
1	J	82	ASP	CB-CG-OD1	5.57	123.31	118.30
1	L	439	ARG	NE-CZ-NH1	5.57	123.08	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	838	THR	CA-CB-CG2	-5.57	104.61	112.40
1	L	448	ARG	NE-CZ-NH1	5.57	123.08	120.30
1	N	46	ARG	C-N-CD	-5.57	108.36	120.60
1	B	538	TYR	N-CA-CB	5.56	120.61	110.60
1	D	949	HIS	CB-CA-C	-5.56	99.28	110.40
1	K	403	ASP	CB-CG-OD2	-5.56	113.29	118.30
1	O	45	ASP	CB-CG-OD1	5.56	123.31	118.30
1	M	199	ASP	CB-CG-OD2	-5.56	113.30	118.30
1	P	447	ASP	CB-CG-OD2	-5.56	113.30	118.30
1	A	221	GLN	N-CA-CB	-5.56	100.60	110.60
1	P	336	ARG	NE-CZ-NH1	5.56	123.08	120.30
1	E	43	ARG	NE-CZ-NH1	5.56	123.08	120.30
1	P	164	ASP	N-CA-CB	5.56	120.60	110.60
1	E	502	MET	CG-SD-CE	5.55	109.09	100.20
1	J	204	ARG	NE-CZ-NH1	5.55	123.08	120.30
1	H	881	ARG	NE-CZ-NH1	5.55	123.08	120.30
1	D	648	ASP	CB-CG-OD1	5.55	123.30	118.30
1	G	280	ASP	CB-CG-OD1	-5.55	113.31	118.30
1	G	839	ALA	CB-CA-C	-5.55	101.78	110.10
1	O	916	ASP	CB-CG-OD2	-5.55	113.31	118.30
1	A	101	THR	N-CA-CB	5.55	120.84	110.30
1	A	869	ASP	CB-CG-OD1	5.55	123.29	118.30
1	N	211	ASP	CB-CG-OD1	5.55	123.29	118.30
1	A	204	ARG	NE-CZ-NH1	5.54	123.07	120.30
1	L	920	LEU	C-N-CD	-5.54	108.40	120.60
1	I	648	ASP	CB-CG-OD2	-5.54	113.31	118.30
1	M	425	ARG	NE-CZ-NH2	5.54	123.07	120.30
1	N	100	TYR	N-CA-CB	5.54	120.57	110.60
1	O	611	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	P	272	ALA	C-N-CD	-5.54	108.42	120.60
1	P	895	VAL	CA-CB-CG1	-5.54	102.59	110.90
1	E	557	ARG	NE-CZ-NH2	5.54	123.07	120.30
1	L	569	ASP	CB-CG-OD1	5.53	123.28	118.30
1	O	164	ASP	CB-CG-OD2	-5.53	113.32	118.30
1	P	909	ARG	NE-CZ-NH1	5.53	123.06	120.30
1	J	1004	SER	N-CA-CB	5.53	118.79	110.50
1	P	967	LEU	CA-CB-CG	-5.53	102.58	115.30
1	H	411	ASP	CB-CG-OD2	-5.53	113.33	118.30
1	I	199	ASP	CB-CG-OD1	5.53	123.27	118.30
1	J	881	ARG	CD-NE-CZ	-5.53	115.86	123.60
1	I	659	ASP	CB-CG-OD2	-5.52	113.33	118.30
1	O	210	ARG	NE-CZ-NH2	-5.52	117.54	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	234	ASP	CB-CG-OD2	-5.52	113.33	118.30
1	N	859	ASP	CB-CG-OD1	5.52	123.27	118.30
1	E	1013	ARG	NE-CZ-NH2	-5.52	117.54	120.30
1	K	721	ARG	NE-CZ-NH1	5.52	123.06	120.30
1	J	52	ARG	NE-CZ-NH1	5.52	123.06	120.30
1	K	356	ARG	NE-CZ-NH1	5.52	123.06	120.30
1	E	946	TYR	CB-CG-CD2	-5.52	117.69	121.00
1	A	319	ASP	CB-CG-OD2	-5.51	113.34	118.30
1	B	572	ASP	CB-CG-OD1	5.51	123.26	118.30
1	E	792	ASP	CB-CG-OD2	-5.51	113.34	118.30
1	K	45	ASP	CB-CG-OD1	5.51	123.26	118.30
1	M	130	ASP	CB-CG-OD1	5.51	123.26	118.30
1	H	96	ASP	CB-CG-OD1	5.51	123.26	118.30
1	K	402	CYS	N-CA-CB	5.51	120.52	110.60
1	O	857	ARG	NE-CZ-NH2	-5.51	117.54	120.30
1	J	239	VAL	CA-CB-CG2	-5.51	102.64	110.90
1	M	292	ARG	NE-CZ-NH1	5.51	123.05	120.30
1	K	699	ARG	NE-CZ-NH2	-5.51	117.55	120.30
1	P	649	ASN	CB-CA-C	5.51	121.41	110.40
1	I	333	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	H	336	ARG	NE-CZ-NH1	5.50	123.05	120.30
1	I	507	ASP	CB-CG-OD1	5.50	123.25	118.30
1	I	594	ASP	CB-CG-OD1	-5.50	113.35	118.30
1	D	786	ARG	NE-CZ-NH1	5.50	123.05	120.30
1	G	190	ARG	NE-CZ-NH1	5.50	123.05	120.30
1	D	479	ASP	CB-CG-OD2	-5.50	113.35	118.30
1	E	388	ARG	NE-CZ-NH1	5.50	123.05	120.30
1	G	329	ASP	CB-CG-OD1	5.50	123.25	118.30
1	A	333	ARG	NE-CZ-NH2	-5.49	117.55	120.30
1	M	832	ASP	CB-CG-OD2	-5.49	113.36	118.30
1	G	1013	ARG	NE-CZ-NH1	5.49	123.05	120.30
1	F	770	ILE	N-CA-CB	5.49	123.43	110.80
1	J	557	ARG	NE-CZ-NH1	5.49	123.05	120.30
1	K	924	ASP	CB-CG-OD2	-5.49	113.36	118.30
1	C	610	ASP	CB-CG-OD1	-5.49	113.36	118.30
1	K	954	ASP	CB-CG-OD1	5.49	123.24	118.30
1	C	82	ASP	CB-CG-OD1	5.49	123.24	118.30
1	C	114	VAL	CA-CB-CG1	5.48	119.13	110.90
1	C	446	ARG	NE-CZ-NH1	5.48	123.04	120.30
1	C	280	ASP	CB-CG-OD1	-5.48	113.36	118.30
1	D	916	ASP	CB-CG-OD2	-5.48	113.37	118.30
1	G	40	GLU	CB-CA-C	5.48	121.36	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	645	ARG	NE-CZ-NH1	5.48	123.04	120.30
1	P	982	THR	CA-CB-CG2	-5.48	104.72	112.40
1	L	961	ARG	NE-CZ-NH1	5.48	123.04	120.30
1	B	875	ASP	CB-CG-OD1	-5.48	113.37	118.30
1	M	917	ARG	NE-CZ-NH1	5.48	123.04	120.30
1	E	164	ASP	CB-CG-OD1	5.47	123.23	118.30
1	N	77	ASP	CB-CG-OD2	-5.47	113.37	118.30
1	K	368	ASP	CB-CG-OD1	5.47	123.23	118.30
1	D	502	MET	CG-SD-CE	5.47	108.95	100.20
1	P	82	ASP	CB-CG-OD1	5.47	123.22	118.30
1	E	201	ASP	CB-CG-OD2	-5.47	113.38	118.30
1	G	429	ASP	CB-CG-OD1	5.47	123.22	118.30
1	I	179	ALA	N-CA-CB	5.47	117.76	110.10
1	L	399	TYR	CB-CG-CD1	-5.47	117.72	121.00
1	O	828	ASP	CB-CG-OD1	-5.47	113.38	118.30
1	F	82	ASP	CB-CG-OD1	5.47	123.22	118.30
1	N	648	ASP	CB-CG-OD2	-5.47	113.38	118.30
1	F	333	ARG	NE-CZ-NH2	-5.47	117.57	120.30
1	G	742	THR	CA-CB-CG2	-5.47	104.75	112.40
1	M	671	ASP	CB-CG-OD2	-5.47	113.38	118.30
1	O	52	ARG	NE-CZ-NH1	5.47	123.03	120.30
1	A	796	SER	N-CA-CB	5.46	118.70	110.50
1	F	875	ASP	CB-CG-OD1	-5.46	113.38	118.30
1	L	5	ASP	CB-CG-OD1	5.46	123.22	118.30
1	N	193	ASP	CB-CG-OD1	5.46	123.22	118.30
1	P	77	ASP	CB-CG-OD2	-5.46	113.38	118.30
1	B	77	ASP	CB-CG-OD1	5.46	123.22	118.30
1	O	942	ARG	NE-CZ-NH1	5.46	123.03	120.30
1	P	479	ASP	CB-CG-OD1	5.46	123.22	118.30
1	G	832	ASP	CB-CG-OD1	5.46	123.21	118.30
1	J	224	ASP	CB-CG-OD1	-5.46	113.39	118.30
1	N	832	ASP	CB-CG-OD2	-5.46	113.39	118.30
1	P	356	ARG	NE-CZ-NH2	-5.46	117.57	120.30
1	L	598	ASP	CB-CG-OD2	5.46	123.21	118.30
1	C	251	ARG	NE-CZ-NH1	5.46	123.03	120.30
1	G	431	ARG	NE-CZ-NH2	-5.45	117.57	120.30
1	H	303	ALA	N-CA-CB	5.45	117.73	110.10
1	O	796	SER	N-CA-CB	5.45	118.68	110.50
1	B	229	THR	CA-CB-CG2	-5.45	104.77	112.40
1	F	403	ASP	CB-CG-OD1	5.45	123.20	118.30
1	J	648	ASP	CB-CG-OD2	-5.45	113.39	118.30
1	K	760	ARG	NE-CZ-NH2	-5.45	117.58	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	425	ARG	NE-CZ-NH1	5.45	123.03	120.30
1	C	800	ARG	NE-CZ-NH1	5.45	123.03	120.30
1	A	98	PRO	N-CA-CB	5.45	109.83	103.30
1	C	598	ASP	CB-CG-OD1	-5.44	113.40	118.30
1	M	800	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	P	204	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	B	746	ASP	CB-CG-OD2	-5.44	113.40	118.30
1	D	439	ARG	NE-CZ-NH1	5.44	123.02	120.30
1	I	52	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	O	594	ASP	CB-CG-OD1	5.44	123.20	118.30
1	C	486	TYR	CB-CG-CD1	5.44	124.26	121.00
1	H	210	ARG	NE-CZ-NH1	5.44	123.02	120.30
1	B	612	THR	N-CA-CB	5.44	120.63	110.30
1	H	280	ASP	CB-CG-OD2	5.44	123.19	118.30
1	P	211	ASP	CB-CG-OD2	-5.44	113.41	118.30
1	D	938	ARG	CD-NE-CZ	5.44	131.21	123.60
1	L	746	ASP	CB-CG-OD1	5.43	123.19	118.30
1	E	857	ARG	NE-CZ-NH1	5.43	123.02	120.30
1	N	310	ARG	N-CA-CB	5.43	120.38	110.60
1	O	336	ARG	NE-CZ-NH1	5.43	123.02	120.30
1	A	336	ARG	N-CA-CB	-5.43	100.83	110.60
1	H	671	ASP	CB-CG-OD2	-5.43	113.41	118.30
1	D	938	ARG	N-CA-CB	5.42	120.36	110.60
1	L	507	ASP	CB-CG-OD2	-5.42	113.42	118.30
1	B	234	ASP	CB-CG-OD1	5.42	123.18	118.30
1	C	917	ARG	NE-CZ-NH1	5.42	123.01	120.30
1	I	721	ARG	NE-CZ-NH2	-5.42	117.59	120.30
1	C	90	TRP	CB-CA-C	5.42	121.23	110.40
1	I	916	ASP	CB-CG-OD2	-5.42	113.42	118.30
1	A	919	ASP	CB-CG-OD2	-5.42	113.43	118.30
1	K	1004	SER	N-CA-CB	5.42	118.62	110.50
1	L	570	TRP	CB-CA-C	-5.42	99.57	110.40
1	I	431	ARG	NE-CZ-NH1	5.41	123.01	120.30
1	L	770	ILE	N-CA-C	-5.41	96.38	111.00
1	A	319	ASP	CB-CG-OD1	5.41	123.17	118.30
1	L	924	ASP	CB-CG-OD2	-5.41	113.43	118.30
1	J	659	ASP	CB-CG-OD1	5.41	123.17	118.30
1	L	77	ASP	CB-CG-OD2	-5.41	113.43	118.30
1	O	760	ARG	NE-CZ-NH2	-5.41	117.60	120.30
1	M	222	ILE	CB-CA-C	-5.41	100.79	111.60
1	N	43	ARG	NE-CZ-NH2	-5.41	117.60	120.30
1	H	832	ASP	CB-CG-OD2	-5.40	113.44	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	422	PRO	N-CA-CB	5.40	109.78	103.30
1	L	230	ARG	NE-CZ-NH2	-5.40	117.60	120.30
1	P	352	ARG	NE-CZ-NH2	-5.40	117.60	120.30
1	P	746	ASP	CB-CG-OD1	5.40	123.16	118.30
1	H	237	ARG	NE-CZ-NH1	5.40	123.00	120.30
1	L	101	THR	N-CA-CB	5.40	120.57	110.30
1	L	610	ASP	CB-CG-OD1	-5.40	113.44	118.30
1	L	828	ASP	CB-CG-OD2	5.40	123.16	118.30
1	O	179	ALA	N-CA-CB	5.40	117.66	110.10
1	D	832	ASP	CB-CG-OD1	5.40	123.16	118.30
1	G	265	THR	CA-CB-CG2	-5.40	104.84	112.40
1	P	699	ARG	N-CA-CB	5.40	120.32	110.60
1	I	561	ARG	NE-CZ-NH1	5.40	123.00	120.30
1	H	224	ASP	CB-CG-OD2	5.39	123.16	118.30
1	M	252	ASP	CB-CG-OD1	5.39	123.16	118.30
1	B	791	ASN	N-CA-CB	5.39	120.31	110.60
1	A	251	ARG	NE-CZ-NH2	-5.39	117.61	120.30
1	D	183	ARG	CD-NE-CZ	-5.39	116.06	123.60
1	J	224	ASP	CB-CG-OD2	5.39	123.15	118.30
1	M	101	THR	N-CA-CB	5.39	120.53	110.30
1	E	237	ARG	N-CA-CB	5.38	120.29	110.60
1	N	876	THR	N-CA-CB	5.38	120.53	110.30
1	O	659	ASP	CB-CG-OD2	-5.38	113.45	118.30
1	E	464	HIS	N-CA-CB	5.38	120.29	110.60
1	E	790	ASP	CB-CG-OD2	-5.38	113.46	118.30
1	C	869	ASP	CB-CG-OD1	-5.38	113.46	118.30
1	G	952	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	B	869	ASP	CB-CG-OD2	5.38	123.14	118.30
1	G	446	ARG	NE-CZ-NH2	-5.38	117.61	120.30
1	L	233	ASP	CB-CG-OD2	-5.38	113.46	118.30
1	M	447	ASP	CB-CG-OD1	5.38	123.14	118.30
1	B	492	ASP	CB-CG-OD1	5.38	123.14	118.30
1	F	941	THR	CA-CB-CG2	-5.38	104.87	112.40
1	K	746	ASP	CB-CG-OD1	5.38	123.14	118.30
1	C	497	ASP	CB-CG-OD1	5.38	123.14	118.30
1	O	252	ASP	CB-CG-OD1	5.38	123.14	118.30
1	J	280	ASP	CB-CG-OD1	-5.37	113.46	118.30
1	P	369	GLU	N-CA-CB	5.37	120.27	110.60
1	I	352	ARG	NE-CZ-NH1	5.37	122.98	120.30
1	O	579	ASP	CB-CG-OD2	-5.37	113.47	118.30
1	G	158	TRP	CA-CB-CG	-5.37	103.50	113.70
1	G	507	ASP	CB-CG-OD1	5.37	123.13	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	395	HIS	C-N-CD	-5.37	108.79	120.60
1	P	411	ASP	CB-CG-OD2	-5.37	113.47	118.30
1	G	356	ARG	NE-CZ-NH2	-5.37	117.62	120.30
1	L	954	ASP	CB-CG-OD1	5.37	123.13	118.30
1	P	538	TYR	CB-CG-CD1	5.37	124.22	121.00
1	F	809	ARG	NE-CZ-NH1	5.36	122.98	120.30
1	M	233	ASP	CB-CG-OD2	-5.36	113.47	118.30
1	C	77	ASP	CB-CG-OD1	5.36	123.13	118.30
1	D	721	ARG	NE-CZ-NH2	-5.36	117.62	120.30
1	E	252	ASP	CB-CG-OD2	-5.36	113.47	118.30
1	M	441	THR	CA-CB-OG1	-5.36	97.74	109.00
1	E	255	ARG	NE-CZ-NH2	-5.36	117.62	120.30
1	E	772	ASP	CB-CG-OD2	-5.36	113.48	118.30
1	M	319	ASP	CB-CG-OD1	5.36	123.12	118.30
1	N	428	ASP	CB-CG-OD2	-5.36	113.48	118.30
1	C	164	ASP	CB-CG-OD2	-5.36	113.48	118.30
1	I	1013	ARG	NE-CZ-NH2	-5.35	117.62	120.30
1	O	319	ASP	CB-CG-OD2	-5.35	113.48	118.30
1	J	764	PHE	CB-CG-CD1	-5.35	117.06	120.80
1	D	557	ARG	NE-CZ-NH1	5.35	122.97	120.30
1	B	404	ARG	NE-CZ-NH2	-5.34	117.63	120.30
1	D	760	ARG	NE-CZ-NH1	5.34	122.97	120.30
1	I	5	ASP	CB-CG-OD2	-5.34	113.49	118.30
1	M	292	ARG	NE-CZ-NH2	-5.34	117.63	120.30
1	M	491	ALA	CB-CA-C	5.34	118.11	110.10
1	P	792	ASP	CB-CG-OD2	-5.34	113.49	118.30
1	B	140	ARG	NE-CZ-NH2	-5.34	117.63	120.30
1	E	569	ASP	CB-CG-OD2	5.34	123.11	118.30
1	F	507	ASP	CB-CG-OD1	5.34	123.11	118.30
1	I	181	GLU	N-CA-C	5.34	125.41	111.00
1	J	796	SER	N-CA-CB	5.34	118.51	110.50
1	A	424	ASN	CB-CA-C	-5.34	99.73	110.40
1	D	571	VAL	CB-CA-C	-5.34	101.26	111.40
1	F	954	ASP	CB-CG-OD1	5.33	123.10	118.30
1	P	482	ARG	NE-CZ-NH2	-5.33	117.63	120.30
1	G	768	MET	N-CA-CB	5.33	120.20	110.60
1	C	639	THR	CA-CB-CG2	-5.33	104.94	112.40
1	K	790	ASP	CB-CG-OD2	-5.33	113.50	118.30
1	M	760	ARG	NE-CZ-NH1	-5.33	117.64	120.30
1	D	201	ASP	CB-CG-OD1	5.33	123.09	118.30
1	I	188	VAL	CA-CB-CG1	-5.33	102.91	110.90
1	P	649	ASN	N-CA-CB	5.33	120.19	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	746	ASP	CB-CG-OD1	5.33	123.09	118.30
1	K	188	VAL	CA-CB-CG1	-5.33	102.91	110.90
1	L	1021	CYS	N-CA-CB	5.33	120.19	110.60
1	G	269	SER	N-CA-CB	5.32	118.49	110.50
1	F	242	ALA	CB-CA-C	-5.32	102.12	110.10
1	B	579	ASP	CB-CG-OD1	5.32	123.09	118.30
1	H	938	ARG	NE-CZ-NH1	5.32	122.96	120.30
1	O	287	ASP	CB-CG-OD1	5.32	123.09	118.30
1	D	557	ARG	NE-CZ-NH2	-5.32	117.64	120.30
1	E	997	ASP	CB-CG-OD1	-5.32	113.51	118.30
1	H	856	TYR	CB-CG-CD1	5.32	124.19	121.00
1	I	997	ASP	CB-CG-OD2	5.32	123.08	118.30
1	D	178	ARG	NE-CZ-NH1	5.31	122.96	120.30
1	D	714	ILE	CB-CA-C	-5.31	100.97	111.60
1	M	211	ASP	CB-CG-OD2	-5.31	113.52	118.30
1	L	388	ARG	NE-CZ-NH1	5.31	122.95	120.30
1	G	569	ASP	CB-CG-OD2	5.31	123.08	118.30
1	K	210	ARG	N-CA-CB	5.31	120.15	110.60
1	N	96	ASP	CB-CG-OD1	5.31	123.08	118.30
1	O	648	ASP	CB-CG-OD2	-5.31	113.53	118.30
1	M	130	ASP	CB-CG-OD2	-5.30	113.53	118.30
1	H	157	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	L	908	ASP	CB-CG-OD2	-5.30	113.53	118.30
1	O	164	ASP	CB-CG-OD1	5.30	123.07	118.30
1	G	154	CYS	CA-CB-SG	-5.30	104.46	114.00
1	E	448	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	B	610	ASP	CB-CG-OD1	-5.30	113.53	118.30
1	G	404	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	J	497	ASP	CB-CG-OD1	5.30	123.07	118.30
1	H	909	ARG	NE-CZ-NH1	5.29	122.95	120.30
1	B	356	ARG	NE-CZ-NH2	-5.29	117.65	120.30
1	P	475	ILE	O-C-N	5.29	131.17	122.70
1	A	399	TYR	CB-CG-CD1	5.29	124.17	121.00
1	I	1013	ARG	NE-CZ-NH1	5.29	122.94	120.30
1	P	997	ASP	CB-CG-OD1	-5.29	113.54	118.30
1	D	800	ARG	NE-CZ-NH1	5.28	122.94	120.30
1	M	448	ARG	NE-CZ-NH1	5.28	122.94	120.30
1	D	423	MET	C-N-CA	5.28	134.91	121.70
1	K	236	SER	N-CA-CB	5.28	118.42	110.50
1	D	319	ASP	CB-CG-OD2	5.28	123.05	118.30
1	J	411	ASP	CB-CG-OD2	-5.28	113.55	118.30
1	A	557	ARG	NE-CZ-NH1	5.28	122.94	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	569	ASP	CB-CG-OD1	-5.28	113.55	118.30
1	I	792	ASP	CB-CG-OD1	5.28	123.05	118.30
1	D	252	ASP	CB-CG-OD1	5.27	123.05	118.30
1	C	782	ASP	CB-CG-OD2	-5.27	113.55	118.30
1	H	262	GLN	N-CA-CB	5.27	120.09	110.60
1	N	938	ARG	NE-CZ-NH1	5.27	122.94	120.30
1	O	648	ASP	CB-CG-OD1	5.27	123.04	118.30
1	L	569	ASP	CB-CG-OD2	-5.27	113.56	118.30
1	C	110	ASN	C-N-CD	-5.27	109.01	120.60
1	I	1018	LEU	N-CA-CB	-5.27	99.86	110.40
1	E	648	ASP	CB-CG-OD1	5.26	123.04	118.30
1	I	140	ARG	NE-CZ-NH2	-5.26	117.67	120.30
1	K	428	ASP	CB-CG-OD2	-5.26	113.56	118.30
1	G	505	ARG	NE-CZ-NH1	5.26	122.93	120.30
1	F	916	ASP	CB-CG-OD1	5.26	123.03	118.30
1	B	287	ASP	CB-CG-OD1	5.26	123.03	118.30
1	K	164	ASP	CB-CG-OD2	-5.26	113.57	118.30
1	P	13	ARG	NE-CZ-NH1	5.26	122.93	120.30
1	I	711	ALA	CB-CA-C	5.26	117.99	110.10
1	L	221	GLN	N-CA-CB	-5.26	101.14	110.60
1	B	211	ASP	CB-CG-OD2	-5.25	113.57	118.30
1	C	730	LEU	CA-CB-CG	-5.25	103.23	115.30
1	D	431	ARG	NE-CZ-NH2	-5.25	117.68	120.30
1	J	403	ASP	CB-CG-OD2	-5.25	113.58	118.30
1	M	859	ASP	CB-CG-OD1	5.25	123.02	118.30
1	B	286	ALA	CB-CA-C	-5.24	102.23	110.10
1	K	37	ARG	NE-CZ-NH1	5.24	122.92	120.30
1	N	772	ASP	CB-CG-OD1	5.24	123.02	118.30
1	F	422	PRO	N-CA-CB	5.24	109.59	103.30
1	F	431	ARG	NE-CZ-NH2	-5.24	117.68	120.30
1	G	746	ASP	CB-CG-OD1	5.24	123.02	118.30
1	A	772	ASP	CB-CG-OD1	5.24	123.01	118.30
1	A	996	ASP	CB-CG-OD2	-5.24	113.59	118.30
1	J	164	ASP	CB-CG-OD2	-5.24	113.59	118.30
1	A	568	TRP	CA-CB-CG	-5.24	103.75	113.70
1	C	853	ARG	NE-CZ-NH2	-5.23	117.68	120.30
1	J	1013	ARG	NE-CZ-NH1	5.23	122.92	120.30
1	D	82	ASP	CB-CG-OD1	5.23	123.01	118.30
1	G	659	ASP	CB-CG-OD2	-5.23	113.59	118.30
1	J	45	ASP	CB-CG-OD2	-5.23	113.59	118.30
1	O	222	ILE	CB-CA-C	-5.23	101.14	111.60
1	N	172	ASP	CB-CG-OD1	5.23	123.00	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	557	ARG	NE-CZ-NH1	5.22	122.91	120.30
1	F	166	ARG	NE-CZ-NH1	5.22	122.91	120.30
1	M	659	ASP	CB-CG-OD1	5.22	123.00	118.30
1	C	319	ASP	CB-CG-OD2	5.22	123.00	118.30
1	B	856	TYR	CB-CG-CD1	-5.22	117.87	121.00
1	L	386	ALA	N-CA-CB	-5.22	102.79	110.10
1	A	172	ASP	CB-CG-OD2	-5.22	113.61	118.30
1	E	172	ASP	CB-CG-OD1	5.22	122.99	118.30
1	E	333	ARG	NE-CZ-NH1	5.21	122.91	120.30
1	M	100	TYR	CB-CA-C	5.21	120.83	110.40
1	C	579	ASP	CB-CG-OD2	-5.21	113.61	118.30
1	J	515	VAL	CA-CB-CG2	-5.21	103.08	110.90
1	D	95	TYR	N-CA-CB	5.21	119.98	110.60
1	D	126	THR	CA-CB-CG2	-5.21	105.11	112.40
1	E	924	ASP	CB-CG-OD2	-5.21	113.61	118.30
1	K	857	ARG	NE-CZ-NH1	5.21	122.91	120.30
1	M	447	ASP	CB-CA-C	5.21	120.83	110.40
1	E	869	ASP	CB-CG-OD2	5.21	122.99	118.30
1	I	919	ASP	CB-CG-OD2	-5.21	113.61	118.30
1	K	126	THR	CA-CB-CG2	-5.21	105.11	112.40
1	F	96	ASP	CB-CG-OD1	5.21	122.99	118.30
1	G	176	PHE	N-CA-CB	5.21	119.97	110.60
1	K	442	ARG	NE-CZ-NH2	-5.21	117.70	120.30
1	K	509	ASP	CB-CG-OD2	-5.21	113.61	118.30
1	M	711	ALA	N-CA-CB	5.21	117.39	110.10
1	P	187	MET	CB-CA-C	5.21	120.81	110.40
1	C	448	ARG	NE-CZ-NH1	5.21	122.90	120.30
1	O	282	ARG	NE-CZ-NH1	5.20	122.90	120.30
1	P	772	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	B	319	ASP	CB-CG-OD1	5.20	122.98	118.30
1	I	233	ASP	CB-CG-OD2	-5.20	113.62	118.30
1	N	416	GLU	N-CA-CB	5.20	119.96	110.60
1	N	679	LEU	CA-CB-CG	-5.20	103.34	115.30
1	O	486	TYR	CB-CG-CD1	-5.20	117.88	121.00
1	E	52	ARG	NE-CZ-NH1	5.20	122.90	120.30
1	G	417	THR	CA-CB-CG2	-5.20	105.12	112.40
1	C	553	TRP	CA-CB-CG	-5.20	103.83	113.70
1	E	161	TYR	N-CA-CB	-5.20	101.25	110.60
1	E	352	ARG	NE-CZ-NH1	5.20	122.90	120.30
1	J	336	ARG	NE-CZ-NH1	5.20	122.90	120.30
1	A	730	LEU	CA-CB-CG	-5.19	103.36	115.30
1	I	233	ASP	CB-CG-OD1	5.19	122.97	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	946	TYR	CB-CG-CD2	-5.19	117.88	121.00
1	O	172	ASP	CB-CG-OD2	-5.19	113.63	118.30
1	A	497	ASP	CB-CG-OD2	-5.19	113.63	118.30
1	H	610	ASP	CB-CG-OD2	5.19	122.97	118.30
1	K	869	ASP	CB-CG-OD1	5.19	122.97	118.30
1	K	958	ASN	N-CA-CB	5.19	119.94	110.60
1	M	411	ASP	N-CA-CB	5.19	119.94	110.60
1	P	201	ASP	CB-CG-OD2	-5.19	113.63	118.30
1	C	210	ARG	N-CA-CB	5.19	119.94	110.60
1	L	659	ASP	CB-CG-OD1	5.19	122.97	118.30
1	M	46	ARG	NE-CZ-NH2	-5.19	117.71	120.30
1	E	572	ASP	CB-CG-OD1	5.19	122.97	118.30
1	J	853	ARG	NE-CZ-NH1	5.18	122.89	120.30
1	M	585	TRP	N-CA-C	5.18	125.00	111.00
1	A	423	MET	CG-SD-CE	-5.18	91.91	100.20
1	P	699	ARG	NE-CZ-NH1	5.18	122.89	120.30
1	G	36	TRP	CB-CA-C	-5.18	100.04	110.40
1	I	356	ARG	NE-CZ-NH2	-5.18	117.71	120.30
1	K	996	ASP	CB-CG-OD2	-5.18	113.64	118.30
1	P	952	ARG	NE-CZ-NH2	-5.18	117.71	120.30
1	M	385	ASN	CB-CA-C	-5.18	100.05	110.40
1	P	282	ARG	NE-CZ-NH2	-5.18	117.71	120.30
1	D	987	ASP	CB-CG-OD1	5.18	122.96	118.30
1	F	469	ASP	CB-CG-OD2	-5.18	113.64	118.30
1	H	234	ASP	CB-CG-OD2	-5.18	113.64	118.30
1	H	447	ASP	CB-CG-OD1	5.18	122.96	118.30
1	N	423	MET	C-N-CA	5.18	134.64	121.70
1	P	252	ASP	CB-CG-OD1	5.18	122.96	118.30
1	P	648	ASP	CB-CG-OD2	-5.18	113.64	118.30
1	J	425	ARG	NE-CZ-NH1	5.17	122.89	120.30
1	M	782	ASP	CB-CG-OD1	-5.17	113.64	118.30
1	F	100	TYR	CA-CB-CG	-5.17	103.57	113.40
1	D	356	ARG	NE-CZ-NH2	-5.17	117.71	120.30
1	H	746	ASP	CB-CG-OD1	5.17	122.95	118.30
1	I	384	PHE	CB-CG-CD1	5.17	124.42	120.80
1	B	47	PRO	N-CA-CB	5.17	109.50	103.30
1	H	760	ARG	NE-CZ-NH1	5.17	122.89	120.30
1	I	237	ARG	NE-CZ-NH1	5.17	122.89	120.30
1	O	746	ASP	CB-CG-OD1	5.17	122.95	118.30
1	B	507	ASP	CB-CG-OD2	-5.17	113.65	118.30
1	J	781	ARG	NE-CZ-NH1	5.17	122.89	120.30
1	A	210	ARG	N-CA-CB	5.17	119.90	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1013	ARG	NE-CZ-NH1	5.17	122.88	120.30
1	K	144	ASP	CB-CG-OD2	-5.16	113.65	118.30
1	F	529	GLU	CG-CD-OE2	-5.16	107.98	118.30
1	E	467	ASN	CB-CA-C	5.16	120.72	110.40
1	G	924	ASP	CB-CG-OD2	-5.16	113.66	118.30
1	H	144	ASP	CB-CG-OD2	-5.16	113.66	118.30
1	D	524	LEU	CB-CA-C	-5.16	100.40	110.20
1	F	917	ARG	NE-CZ-NH2	-5.16	117.72	120.30
1	K	638	VAL	CB-CA-C	-5.16	101.60	111.40
1	C	802	ASP	CB-CG-OD1	5.16	122.94	118.30
1	D	517	LYS	N-CA-CB	5.16	119.88	110.60
1	K	790	ASP	CB-CG-OD1	5.16	122.94	118.30
1	O	82	ASP	CB-CG-OD1	5.16	122.94	118.30
1	C	908	ASP	CB-CG-OD2	-5.15	113.66	118.30
1	C	1016	TYR	N-CA-CB	5.15	119.88	110.60
1	G	224	ASP	CB-CG-OD1	-5.15	113.66	118.30
1	D	610	ASP	CB-CG-OD2	5.15	122.94	118.30
1	H	599	ARG	CG-CD-NE	5.15	122.62	111.80
1	M	507	ASP	CB-CG-OD1	5.15	122.94	118.30
1	P	553	TRP	CA-CB-CG	-5.15	103.91	113.70
1	I	204	ARG	NE-CZ-NH1	5.15	122.88	120.30
1	M	82	ASP	CB-CG-OD1	-5.15	113.66	118.30
1	P	782	ASP	CB-CG-OD1	-5.15	113.67	118.30
1	C	166	ARG	NE-CZ-NH1	5.15	122.87	120.30
1	E	782	ASP	CB-CG-OD2	-5.15	113.67	118.30
1	N	828	ASP	CB-CG-OD1	5.15	122.93	118.30
1	N	319	ASP	CB-CG-OD1	5.15	122.93	118.30
1	B	429	ASP	CB-CG-OD2	-5.14	113.67	118.30
1	C	561	ARG	NE-CZ-NH2	-5.14	117.73	120.30
1	H	45	ASP	CB-CG-OD1	5.14	122.93	118.30
1	N	255	ARG	NE-CZ-NH2	-5.14	117.73	120.30
1	H	1019	VAL	CA-CB-CG2	-5.14	103.19	110.90
1	P	591	ASP	CB-CG-OD1	5.14	122.93	118.30
1	K	569	ASP	CB-CG-OD2	5.14	122.92	118.30
1	G	572	ASP	CB-CG-OD2	-5.14	113.68	118.30
1	G	781	ARG	NE-CZ-NH1	5.14	122.87	120.30
1	B	698	VAL	CG1-CB-CG2	-5.13	102.68	110.90
1	E	764	PHE	CB-CA-C	-5.13	100.13	110.40
1	P	529	GLU	CG-CD-OE2	-5.13	108.03	118.30
1	D	211	ASP	CB-CG-OD1	5.13	122.92	118.30
1	H	356	ARG	NE-CZ-NH2	-5.13	117.73	120.30
1	B	507	ASP	CB-CG-OD1	5.13	122.92	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	221	GLN	CB-CA-C	-5.13	100.14	110.40
1	G	996	ASP	CB-CG-OD2	-5.13	113.68	118.30
1	K	233	ASP	CB-CG-OD2	-5.13	113.68	118.30
1	G	741	THR	N-CA-CB	5.13	120.05	110.30
1	M	187	MET	CA-CB-CG	-5.13	104.58	113.30
1	M	755	ARG	NE-CZ-NH2	-5.13	117.73	120.30
1	B	760	ARG	NE-CZ-NH2	-5.13	117.74	120.30
1	D	612	THR	N-CA-CB	5.13	120.04	110.30
1	K	201	ASP	CB-CG-OD1	5.13	122.91	118.30
1	N	280	ASP	CB-CG-OD2	5.13	122.91	118.30
1	G	14	ARG	NE-CZ-NH2	-5.12	117.74	120.30
1	M	96	ASP	CB-CG-OD1	5.12	122.91	118.30
1	J	610	ASP	CB-CG-OD2	5.12	122.91	118.30
1	A	907	PRO	N-CA-CB	5.12	109.44	103.30
1	H	671	ASP	CB-CG-OD1	5.12	122.91	118.30
1	K	869	ASP	CB-CG-OD2	-5.12	113.69	118.30
1	H	462	SER	N-CA-CB	5.12	118.18	110.50
1	I	90	TRP	CB-CA-C	5.12	120.64	110.40
1	O	772	ASP	CB-CG-OD1	5.12	122.91	118.30
1	E	456	TRP	N-CA-CB	5.12	119.81	110.60
1	C	164	ASP	CB-CG-OD1	5.12	122.91	118.30
1	M	809	ARG	NE-CZ-NH1	5.12	122.86	120.30
1	A	894	ARG	NE-CZ-NH1	5.11	122.86	120.30
1	G	234	ASP	CB-CG-OD2	-5.11	113.70	118.30
1	P	255	ARG	NE-CZ-NH1	5.11	122.86	120.30
1	L	961	ARG	NE-CZ-NH2	-5.11	117.74	120.30
1	J	790	ASP	CB-CG-OD2	-5.11	113.70	118.30
1	M	52	ARG	NE-CZ-NH1	5.11	122.86	120.30
1	O	952	ARG	N-CA-CB	5.11	119.80	110.60
1	P	101	THR	N-CA-CB	5.11	120.01	110.30
1	D	917	ARG	NE-CZ-NH2	-5.11	117.75	120.30
1	J	211	ASP	CB-CG-OD1	5.11	122.89	118.30
1	N	941	THR	CA-CB-CG2	-5.11	105.25	112.40
1	N	479	ASP	CB-CG-OD2	-5.10	113.71	118.30
1	D	802	ASP	CB-CG-OD2	-5.10	113.71	118.30
1	P	853	ARG	NE-CZ-NH1	5.10	122.85	120.30
1	H	206	SER	N-CA-CB	5.10	118.15	110.50
1	C	96	ASP	CB-CG-OD2	-5.10	113.71	118.30
1	G	919	ASP	CB-CG-OD1	5.10	122.89	118.30
1	M	1013	ARG	NE-CZ-NH2	-5.10	117.75	120.30
1	O	579	ASP	CB-CG-OD1	5.10	122.89	118.30
1	E	230	ARG	NE-CZ-NH1	5.10	122.85	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	442	ARG	NE-CZ-NH2	-5.10	117.75	120.30
1	F	975	LEU	CA-CB-CG	-5.09	103.58	115.30
1	K	671	ASP	CB-CG-OD1	5.09	122.89	118.30
1	L	144	ASP	CB-CG-OD1	5.09	122.88	118.30
1	K	610	ASP	CB-CG-OD2	5.09	122.88	118.30
1	P	287	ASP	CB-CG-OD2	-5.09	113.72	118.30
1	D	178	ARG	NE-CZ-NH2	-5.09	117.76	120.30
1	I	599	ARG	NE-CZ-NH1	5.09	122.84	120.30
1	N	431	ARG	NE-CZ-NH2	-5.09	117.76	120.30
1	N	855	THR	N-CA-CB	5.09	119.96	110.30
1	O	997	ASP	CB-CG-OD2	5.08	122.88	118.30
1	O	5	ASP	CB-CG-OD2	-5.08	113.72	118.30
1	C	714	ILE	CB-CA-C	-5.08	101.44	111.60
1	E	386	ALA	N-CA-CB	-5.08	102.99	110.10
1	F	987	ASP	CB-CG-OD1	5.08	122.87	118.30
1	L	9	VAL	CA-CB-CG1	5.08	118.52	110.90
1	O	952	ARG	NE-CZ-NH1	5.08	122.84	120.30
1	E	473	ARG	NE-CZ-NH1	5.08	122.84	120.30
1	N	161	TYR	CB-CG-CD2	-5.08	117.95	121.00
1	I	594	ASP	CB-CG-OD2	5.08	122.87	118.30
1	B	444	VAL	CA-CB-CG1	-5.08	103.29	110.90
1	H	828	ASP	CB-CG-OD1	-5.08	113.73	118.30
1	L	345	ASN	N-CA-CB	5.08	119.74	110.60
1	N	479	ASP	CB-CG-OD1	5.08	122.87	118.30
1	H	473	ARG	NE-CZ-NH1	5.07	122.84	120.30
1	E	31	PRO	N-CA-CB	5.07	109.38	103.30
1	I	908	ASP	CB-CG-OD1	5.07	122.86	118.30
1	B	280	ASP	CB-CG-OD2	5.07	122.86	118.30
1	B	699	ARG	NE-CZ-NH2	-5.07	117.77	120.30
1	E	512	PHE	CB-CG-CD1	-5.07	117.25	120.80
1	L	996	ASP	CB-CG-OD2	-5.07	113.74	118.30
1	G	59	ARG	NE-CZ-NH2	-5.06	117.77	120.30
1	M	829	THR	N-CA-CB	5.06	119.92	110.30
1	I	339	ASN	N-CA-CB	5.06	119.71	110.60
1	P	5	ASP	CB-CG-OD1	5.06	122.86	118.30
1	L	439	ARG	NE-CZ-NH2	-5.06	117.77	120.30
1	I	938	ARG	N-CA-CB	5.06	119.71	110.60
1	P	166	ARG	NE-CZ-NH1	5.06	122.83	120.30
1	K	828	ASP	CB-CG-OD2	5.06	122.85	118.30
1	A	234	ASP	CB-CG-OD2	-5.05	113.75	118.30
1	I	201	ASP	CB-CG-OD2	-5.05	113.75	118.30
1	J	772	ASP	CB-CG-OD2	-5.05	113.75	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	76	CYS	CA-CB-SG	5.05	123.10	114.00
1	N	507	ASP	CB-CG-OD1	5.05	122.85	118.30
1	E	237	ARG	NE-CZ-NH2	-5.05	117.78	120.30
1	G	251	ARG	NE-CZ-NH1	5.05	122.83	120.30
1	I	610	ASP	CB-CG-OD2	5.05	122.84	118.30
1	I	448	ARG	NE-CZ-NH1	5.05	122.82	120.30
1	C	325	ALA	CB-CA-C	5.05	117.67	110.10
1	A	1004	SER	N-CA-CB	5.04	118.06	110.50
1	E	505	ARG	NE-CZ-NH1	5.04	122.82	120.30
1	F	8	ALA	N-CA-CB	-5.04	103.04	110.10
1	G	164	ASP	CB-CG-OD1	5.04	122.84	118.30
1	J	485	GLN	N-CA-CB	5.04	119.68	110.60
1	M	399	TYR	CB-CG-CD2	-5.04	117.97	121.00
1	N	319	ASP	CB-CG-OD2	-5.04	113.76	118.30
1	P	766	SER	N-CA-CB	5.04	118.06	110.50
1	D	212	VAL	CA-CB-CG1	-5.04	103.34	110.90
1	E	425	ARG	NE-CZ-NH2	-5.04	117.78	120.30
1	K	987	ASP	CB-CG-OD1	5.04	122.84	118.30
1	F	857	ARG	NE-CZ-NH1	5.04	122.82	120.30
1	O	280	ASP	CB-CG-OD2	5.04	122.83	118.30
1	E	288	ARG	NE-CZ-NH1	-5.04	117.78	120.30
1	F	802	ASP	CB-CG-OD1	5.04	122.83	118.30
1	I	517	LYS	N-CA-CB	5.03	119.66	110.60
1	C	90	TRP	N-CA-CB	5.03	119.66	110.60
1	I	479	ASP	CB-CG-OD1	5.03	122.83	118.30
1	O	628	GLN	N-CA-CB	5.03	119.66	110.60
1	C	938	ARG	NE-CZ-NH1	5.03	122.81	120.30
1	E	869	ASP	CB-CG-OD1	-5.03	113.77	118.30
1	G	252	ASP	CB-CG-OD1	5.03	122.83	118.30
1	J	782	ASP	CB-CG-OD1	-5.03	113.77	118.30
1	N	648	ASP	CB-CG-OD1	5.03	122.83	118.30
1	I	831	ALA	CB-CA-C	-5.03	102.56	110.10
1	L	571	VAL	CB-CA-C	-5.03	101.85	111.40
1	M	193	ASP	CB-CG-OD1	5.03	122.82	118.30
1	O	234	ASP	CB-CG-OD2	-5.03	113.78	118.30
1	A	82	ASP	CB-CG-OD2	-5.03	113.78	118.30
1	E	82	ASP	CB-CG-OD2	5.03	122.82	118.30
1	G	546	LEU	N-CA-CB	5.03	120.45	110.40
1	L	234	ASP	CB-CG-OD2	-5.03	113.78	118.30
1	O	447	ASP	CB-CG-OD1	5.03	122.82	118.30
1	P	30	HIS	CA-CB-CG	-5.02	105.06	113.60
1	G	764	PHE	CB-CA-C	-5.02	100.36	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	385	ASN	N-CA-CB	-5.02	101.57	110.60
1	G	781	ARG	NE-CZ-NH2	-5.02	117.79	120.30
1	M	356	ARG	NE-CZ-NH2	-5.02	117.79	120.30
1	D	15	ASP	CB-CG-OD1	5.02	122.81	118.30
1	D	431	ARG	NE-CZ-NH1	5.02	122.81	120.30
1	F	924	ASP	CB-CG-OD2	-5.02	113.79	118.30
1	P	735	HIS	CA-CB-CG	-5.02	105.07	113.60
1	F	938	ARG	NE-CZ-NH1	5.01	122.81	120.30
1	G	809	ARG	NE-CZ-NH2	-5.01	117.79	120.30
1	I	37	ARG	N-CA-CB	5.01	119.63	110.60
1	I	363	HIS	CA-CB-CG	-5.01	105.08	113.60
1	I	671	ASP	CB-CG-OD2	-5.01	113.79	118.30
1	I	201	ASP	CB-CG-OD1	5.01	122.81	118.30
1	G	671	ASP	CB-CG-OD2	-5.01	113.79	118.30
1	O	507	ASP	CB-CG-OD1	5.01	122.81	118.30
1	G	790	ASP	CB-CG-OD1	5.01	122.81	118.30
1	P	524	LEU	CB-CA-C	-5.01	100.69	110.20
1	I	579	ASP	CB-CG-OD1	5.00	122.80	118.30
1	E	100	TYR	CB-CG-CD1	-5.00	118.00	121.00
1	F	987	ASP	CB-CG-OD2	-5.00	113.80	118.30
1	G	980	GLU	C-N-CA	-5.00	111.79	122.30
1	B	178	ARG	NE-CZ-NH1	5.00	122.80	120.30
1	C	932	PRO	O-C-N	5.00	130.70	122.70
1	L	485	GLN	N-CA-CB	5.00	119.60	110.60
1	N	482	ARG	NE-CZ-NH1	5.00	122.80	120.30

All (17) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	90	TRP	CA
1	B	718	GLN	CA
1	D	95	TYR	CA
1	D	914	CYS	CA
1	E	118	ASN	CA
1	F	533	LEU	CA
1	F	914	CYS	CA
1	G	40	GLU	CA
1	G	768	MET	CA
1	H	215	LEU	CA
1	I	684	GLU	CA
1	J	655	MET	CA
1	L	914	CYS	CA

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Mol	Chain	Res	Type	Atom
1	M	100	TYR	CA
1	M	447	ASP	CA
1	P	40	GLU	CA
1	P	737	ILE	CA

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	D	473	ARG	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	8198	0	7796	540	0
1	B	8198	0	7796	546	0
1	C	8198	0	7796	446	0
1	D	8198	0	7796	551	0
1	E	8198	0	7795	892	0
1	F	8198	0	7796	579	0
1	G	8198	0	7796	641	0
1	H	8198	0	7796	882	0
1	I	8198	0	7796	618	0
1	J	8198	0	7795	507	0
1	K	8198	0	7796	781	0
1	L	8198	0	7796	792	0
1	M	8198	0	7796	1078	0
1	N	8198	0	7795	630	0
1	O	8198	0	7796	659	0
1	P	8198	0	7796	1151	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
2	E	2	0	0	0	0
2	F	2	0	0	0	0
2	G	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	H	2	0	0	0	0
2	I	2	0	0	0	0
2	J	2	0	0	0	0
2	K	2	0	0	0	0
2	L	2	0	0	0	0
2	M	1	0	0	0	0
2	N	2	0	0	0	0
2	O	2	0	0	0	0
2	P	2	0	0	0	0
3	A	88	0	0	7	0
3	B	96	0	0	14	0
3	C	91	0	0	9	0
3	D	97	0	0	13	0
3	E	94	0	0	20	0
3	F	91	0	0	9	0
3	G	95	0	0	13	0
3	H	92	0	0	18	0
3	I	90	0	0	15	0
3	J	97	0	0	9	0
3	K	87	0	0	9	0
3	L	84	0	0	12	0
3	M	79	0	0	17	0
3	N	94	0	0	19	0
3	O	95	0	0	12	0
3	P	85	0	0	21	0
All	All	132654	0	124733	11096	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 43.

All (11096) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:7:LEU:HD13	1:E:74:LEU:HD11	1.23	1.17
1:D:572:ASP:HB3	1:D:603:MET:HG2	1.25	1.16
1:C:427:THR:HA	1:C:436:MET:HE1	1.21	1.16
1:A:770:ILE:HD11	1:A:1022:GLN:HG2	1.18	1.15
1:I:316:HIS:HA	1:I:323:ILE:HD13	1.24	1.13
1:J:129:VAL:HG21	1:J:177:LEU:HD13	1.23	1.12
1:M:70:PRO:HG2	1:M:78:LEU:HD11	1.31	1.12
1:F:777:LEU:HD12	1:F:889:ALA:HA	1.32	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:7:LEU:HD13	1:F:74:LEU:HD11	1.28	1.11
1:M:141:ILE:HD12	1:M:214:LEU:HD21	1.32	1.10
1:P:777:LEU:HD11	1:P:889:ALA:HA	1.34	1.10
1:L:493:THR:HG22	1:L:495:ALA:H	0.97	1.10
1:I:746:ASP:HA	1:I:760:ARG:HG3	1.31	1.10
1:M:54:LEU:HB2	1:M:212:VAL:HG12	1.33	1.09
1:K:559:TYR:HB2	1:K:562:LEU:HD12	1.33	1.09
1:D:427:THR:HA	1:D:436:MET:HE1	1.35	1.09
1:I:427:THR:HA	1:I:436:MET:HE1	1.33	1.09
1:M:7:LEU:HD12	1:M:74:LEU:HD11	1.30	1.08
1:H:746:ASP:HA	1:H:760:ARG:HG3	1.28	1.08
1:P:656:VAL:HB	1:P:664:ALA:HB3	1.14	1.08
1:E:197:LEU:HD12	1:E:439:ARG:HE	1.16	1.08
1:M:581:ASN:HB2	1:M:583:ASN:HD21	1.13	1.08
1:F:856:TYR:HB3	1:F:864:MET:HE2	1.36	1.08
1:E:23:GLN:HB3	1:E:26:ARG:HH21	1.09	1.07
1:A:352:ARG:HB2	1:A:385:ASN:HB2	1.32	1.06
1:B:166:ARG:HG2	1:B:392:TYR:HB2	1.36	1.06
1:K:38:ASN:HD22	1:K:41:GLU:HG3	1.14	1.06
1:P:316:HIS:HA	1:P:323:ILE:HD13	1.33	1.06
1:P:352:ARG:HB2	1:P:385:ASN:HB2	1.35	1.06
1:I:134:LEU:HD12	1:I:179:ALA:HB2	1.32	1.05
1:A:166:ARG:HG2	1:A:392:TYR:HB2	1.32	1.05
1:L:777:LEU:HD12	1:L:889:ALA:HA	1.31	1.05
1:L:546:LEU:HD22	1:L:616:ALA:HB1	1.33	1.05
1:M:487:GLU:HG2	1:M:491:ALA:HB2	1.38	1.05
1:M:777:LEU:HD11	1:M:889:ALA:HA	1.31	1.04
1:E:166:ARG:HG2	1:E:392:TYR:HB2	1.39	1.04
1:M:38:ASN:HD22	1:M:41:GLU:HG3	1.19	1.04
1:M:10:VAL:HG21	1:M:153:TRP:HZ2	1.20	1.04
1:G:770:ILE:HD11	1:G:1022:GLN:HG2	1.39	1.04
1:H:427:THR:HA	1:H:436:MET:HE1	1.39	1.03
1:B:746:ASP:HA	1:B:760:ARG:HG3	1.41	1.03
1:J:349:LEU:HD13	1:J:351:ILE:HD11	1.39	1.02
1:E:43:ARG:HH21	1:E:264:GLU:HG2	1.20	1.02
1:H:719:GLN:HE22	1:H:914:CYS:HB3	1.21	1.02
1:J:316:HIS:HA	1:J:323:ILE:HD12	1.42	1.01
1:N:369:GLU:HG2	1:N:397:LEU:HD21	1.39	1.01
1:M:205:MET:HE3	1:M:365:GLN:HG3	1.41	1.01
1:P:909:ARG:HD3	1:P:993:ILE:HD11	1.41	1.01
1:O:778:THR:HG22	1:O:779:PRO:HD2	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:166:ARG:HB2	1:G:414:ASN:HD22	1.19	1.00
1:D:746:ASP:HA	1:D:760:ARG:HG3	1.43	1.00
1:K:316:HIS:HA	1:K:323:ILE:HD12	1.42	1.00
1:P:656:VAL:HG11	1:P:686:PRO:HG2	1.43	1.00
1:P:696:LEU:HB2	1:P:722:LEU:HD11	1.42	1.00
1:M:197:LEU:HD12	1:M:439:ARG:HE	1.25	1.00
1:O:152:LEU:HD12	1:O:153:TRP:H	1.22	0.99
1:I:51:LEU:HD12	1:I:52:ARG:H	1.28	0.99
1:M:502:MET:HB2	1:M:537:GLU:HB2	1.43	0.99
1:K:843:GLN:HG2	1:K:848:THR:HG23	1.43	0.99
1:M:227:VAL:HG13	1:M:240:LEU:HD11	1.44	0.99
1:P:225:PHE:HB3	1:P:244:VAL:HG13	1.45	0.99
1:M:23:GLN:HB3	1:M:26:ARG:HH21	1.23	0.99
1:A:166:ARG:HB2	1:A:414:ASN:HD22	1.25	0.98
1:O:730:LEU:HD12	1:O:731:PRO:HD2	1.41	0.98
1:J:635:THR:HG23	1:J:681:GLU:HG3	1.43	0.98
1:K:581:ASN:HD22	1:K:581:ASN:H	1.10	0.98
1:A:356:ARG:HG2	1:A:356:ARG:HH11	1.28	0.98
1:L:278:ILE:HD12	1:L:278:ILE:H	1.29	0.97
1:H:50:GLN:HG3	1:H:216:HIS:HB3	1.46	0.97
1:K:427:THR:HA	1:K:436:MET:HE1	1.44	0.97
1:E:227:VAL:HG13	1:E:240:LEU:HD11	1.45	0.97
1:O:930:VAL:HA	1:O:973:ARG:HD3	1.44	0.97
1:G:402:CYS:HB3	1:G:407:LEU:HB2	1.45	0.97
1:L:750:GLU:HG3	1:L:755:ARG:HG2	1.46	0.97
1:A:114:VAL:HG13	1:A:115:PRO:HD2	1.42	0.97
1:P:259:SER:HA	1:P:269:SER:HB2	1.44	0.97
1:K:746:ASP:HA	1:K:760:ARG:HG3	1.46	0.97
1:E:745:MET:HG2	1:E:761:GLN:HE22	1.24	0.97
1:I:369:GLU:HG3	1:I:397:LEU:HD21	1.47	0.97
1:A:894:ARG:HH22	1:A:921:PRO:HD3	1.31	0.96
1:H:316:HIS:HA	1:H:323:ILE:HD13	1.48	0.96
1:F:822:LEU:HD12	1:F:823:LEU:H	1.28	0.96
1:P:899:GLY:HA3	1:P:941:THR:HG23	1.46	0.96
1:C:362:LEU:HD21	1:C:576:ILE:HD12	1.46	0.96
1:C:949:HIS:HD2	1:C:1020:TRP:HE1	1.14	0.96
1:O:10:VAL:HG12	1:O:11:LEU:HD23	1.45	0.96
1:D:14:ARG:HG2	1:D:14:ARG:HH11	1.29	0.95
1:H:668:VAL:HG12	1:H:669:PRO:HD2	1.45	0.95
1:N:232:ASN:HD21	1:N:236:SER:HB2	1.30	0.95
1:P:742:THR:HG22	1:P:743:SER:H	1.31	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:637:GLU:HG3	1:E:679:LEU:HD21	1.48	0.95
1:A:427:THR:HA	1:A:436:MET:HE1	1.46	0.95
1:F:38:ASN:HD22	1:F:41:GLU:HG3	1.32	0.95
1:I:360:HIS:HE1	1:I:362:LEU:HB2	1.30	0.95
1:L:90:TRP:HE3	1:L:123:TYR:HH	1.09	0.94
1:I:227:VAL:HG13	1:I:240:LEU:HD11	1.48	0.94
1:C:746:ASP:HA	1:C:760:ARG:HG3	1.49	0.94
1:F:377:LEU:HD22	1:F:708:TRP:HA	1.49	0.94
1:H:634:GLN:NE2	1:H:634:GLN:H	1.64	0.94
1:P:668:VAL:HG13	1:P:669:PRO:HD2	1.50	0.94
1:O:166:ARG:HG2	1:O:392:TYR:HB2	1.48	0.94
1:G:360:HIS:CE1	1:G:362:LEU:HB2	2.03	0.94
1:E:99:ILE:HD11	1:E:190:ARG:HH12	1.31	0.94
1:H:873:ALA:HB3	1:H:876:THR:HG22	1.48	0.94
1:L:86:VAL:HG13	1:L:87:PRO:HA	1.47	0.94
1:I:789:LEU:HD13	1:I:993:ILE:HG22	1.50	0.94
1:K:66:PRO:HG2	1:K:67:GLU:HG2	1.47	0.94
1:J:355:ASN:HD22	1:J:355:ASN:H	1.14	0.93
1:P:166:ARG:HE	1:P:210:ARG:HH21	1.17	0.93
1:L:166:ARG:HB2	1:L:414:ASN:ND2	1.83	0.93
1:H:114:VAL:HG13	1:H:115:PRO:HD2	1.47	0.93
1:M:152:LEU:HD12	1:M:153:TRP:H	1.32	0.93
1:M:10:VAL:HG21	1:M:153:TRP:CZ2	2.03	0.93
1:L:141:ILE:HD13	1:L:143:PHE:CE1	2.04	0.93
1:G:37:ARG:NH2	1:G:218:PRO:HD3	1.83	0.93
1:M:767:GLN:NE2	1:M:768:MET:H	1.66	0.93
1:M:128:ASN:ND2	1:M:180:GLY:HA2	1.83	0.93
1:J:377:LEU:HD22	1:J:708:TRP:HA	1.49	0.93
1:O:262:GLN:HE22	1:O:299:LYS:HD2	1.35	0.92
1:M:571:VAL:HG11	1:M:611:ARG:NH1	1.84	0.92
1:L:493:THR:HG22	1:L:495:ALA:N	1.83	0.92
1:M:360:HIS:CE1	1:M:362:LEU:HB2	2.05	0.92
1:I:86:VAL:HG13	1:I:87:PRO:HA	1.51	0.92
1:P:822:LEU:HD12	1:P:823:LEU:H	1.33	0.92
1:J:822:LEU:HD12	1:J:823:LEU:H	1.32	0.92
1:P:141:ILE:HD12	1:P:143:PHE:CE1	2.04	0.92
1:H:949:HIS:HD2	1:H:1020:TRP:HE1	1.11	0.92
1:P:559:TYR:HB2	1:P:562:LEU:HD12	1.48	0.92
1:L:427:THR:HA	1:L:436:MET:CE	2.00	0.92
1:H:572:ASP:HB3	1:H:603:MET:HB3	1.52	0.92
1:E:100:TYR:CE1	1:E:602:CYS:HB3	2.05	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:377:LEU:HD22	1:L:708:TRP:HA	1.48	0.92
1:M:651:LEU:HD12	1:M:652:LEU:H	1.35	0.92
1:H:894:ARG:NH2	1:H:921:PRO:HD3	1.85	0.92
1:P:312:VAL:HG13	1:P:327:ALA:HB2	1.51	0.91
1:K:7:LEU:HD13	1:K:74:LEU:HD11	1.51	0.91
1:E:152:LEU:HD12	1:E:153:TRP:H	1.35	0.91
1:L:427:THR:HA	1:L:436:MET:HE1	1.50	0.91
1:F:653:HIS:CD2	1:F:667:GLU:HG2	2.04	0.91
1:N:360:HIS:CE1	1:N:362:LEU:HB2	2.06	0.91
1:J:427:THR:HA	1:J:436:MET:CE	1.99	0.91
1:O:460:ASN:ND2	1:O:461:GLU:HG3	1.86	0.91
1:H:79:PRO:HD2	1:H:80:GLU:HG3	1.49	0.91
1:D:312:VAL:HG13	1:D:327:ALA:HB2	1.48	0.91
1:C:460:ASN:ND2	1:C:461:GLU:HG3	1.84	0.91
1:P:258:VAL:HG12	1:P:293:LEU:HD11	1.53	0.91
1:G:892:ALA:HB3	1:G:946:TYR:CE1	2.05	0.91
1:M:422:PRO:HG3	1:P:284:GLY:HA2	1.53	0.91
1:H:43:ARG:NH2	1:H:264:GLU:HG2	1.85	0.91
1:P:696:LEU:HD12	1:P:697:THR:N	1.84	0.91
1:L:102:ASN:HD22	1:L:201:ASP:HB2	1.35	0.91
1:I:18:ASN:ND2	1:I:21:VAL:HG23	1.86	0.91
1:L:959:ILE:HG13	1:L:984:LEU:HD12	1.50	0.90
1:P:118:ASN:ND2	1:P:191:TRP:HB2	1.86	0.90
1:H:630:ARG:HB2	1:H:637:GLU:HG2	1.52	0.90
1:H:427:THR:HA	1:H:436:MET:CE	2.01	0.90
1:I:360:HIS:CE1	1:I:362:LEU:HB2	2.05	0.90
1:D:653:HIS:CD2	1:D:667:GLU:HG2	2.07	0.90
1:M:559:TYR:HB2	1:M:562:LEU:HD12	1.50	0.90
1:H:719:GLN:NE2	1:H:914:CYS:HB3	1.86	0.90
1:B:261:TRP:CZ3	1:B:266:GLN:HB2	2.07	0.90
1:B:651:LEU:HD13	1:B:669:PRO:HA	1.54	0.90
1:H:742:THR:HG22	1:H:743:SER:H	1.32	0.90
1:O:685:LEU:HB3	1:O:686:PRO:HD2	1.54	0.90
1:K:152:LEU:HD12	1:K:153:TRP:H	1.37	0.89
1:P:251:ARG:HB3	1:P:253:TYR:CE1	2.06	0.89
1:D:822:LEU:HD12	1:D:823:LEU:N	1.87	0.89
1:J:708:TRP:CE3	1:J:709:SER:HB3	2.06	0.89
1:D:767:GLN:NE2	1:D:774:LYS:HB3	1.87	0.89
1:H:989:PHE:CE2	1:H:1014:TYR:HB3	2.08	0.89
1:H:65:ALA:HB1	1:H:66:PRO:HD2	1.53	0.89
1:D:599:ARG:HB2	1:D:600:GLN:HG3	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:436:MET:HA	1:N:439:ARG:HG3	1.52	0.89
1:J:691:ALA:HA	1:J:725:ASN:HB2	1.51	0.89
1:H:696:LEU:HD12	1:H:697:THR:N	1.87	0.89
1:K:581:ASN:ND2	1:K:581:ASN:H	1.67	0.89
1:E:960:SER:HA	3:E:1281:HOH:O	1.73	0.89
1:B:427:THR:HA	1:B:436:MET:CE	2.03	0.89
1:C:750:GLU:HG2	1:C:755:ARG:HG2	1.53	0.89
1:B:778:THR:HG22	1:B:779:PRO:HD2	1.54	0.89
1:E:43:ARG:NH2	1:E:264:GLU:HG2	1.88	0.89
1:H:70:PRO:HG2	1:H:78:LEU:HD11	1.55	0.89
1:F:360:HIS:HE1	1:F:362:LEU:HB2	1.38	0.89
1:H:246:MET:HG2	1:H:274:PHE:CE2	2.08	0.89
1:K:37:ARG:NH2	1:K:218:PRO:HD3	1.87	0.89
1:L:166:ARG:HB2	1:L:414:ASN:HD22	1.34	0.89
1:C:653:HIS:CD2	1:C:667:GLU:HG2	2.08	0.89
1:O:568:TRP:HE1	1:O:604:ASN:HD22	1.18	0.89
1:K:740:LEU:HD12	1:K:741:THR:H	1.38	0.89
1:D:857:ARG:HG2	1:D:857:ARG:HH11	1.37	0.89
1:I:607:VAL:HG12	1:I:613:PRO:HA	1.52	0.89
1:M:34:ALA:HB3	1:M:36:TRP:CZ3	2.08	0.89
1:L:651:LEU:HD12	1:L:669:PRO:HA	1.53	0.89
1:M:23:GLN:HB3	1:M:26:ARG:NH2	1.87	0.88
1:F:822:LEU:HD12	1:F:823:LEU:N	1.87	0.88
1:P:635:THR:HG23	1:P:681:GLU:HG2	1.54	0.88
1:O:533:LEU:HD12	1:O:534:ILE:N	1.88	0.88
1:A:572:ASP:HB3	1:A:603:MET:HG2	1.54	0.88
1:L:433:LEU:HB3	1:L:434:PRO:HD3	1.53	0.88
1:L:948:PRO:HG2	1:L:949:HIS:CE1	2.08	0.88
1:P:474:TRP:CZ2	1:P:478:VAL:HG21	2.08	0.88
1:E:128:ASN:ND2	1:E:180:GLY:HA2	1.88	0.88
1:I:51:LEU:HD12	1:I:52:ARG:N	1.86	0.88
1:P:394:ASN:O	1:P:395:HIS:C	2.11	0.88
1:E:356:ARG:HH11	1:E:356:ARG:HG2	1.36	0.88
1:P:902:PRO:HD3	1:P:918:TRP:CH2	2.09	0.88
1:A:770:ILE:CD1	1:A:1022:GLN:HG2	2.04	0.88
1:E:427:THR:HA	1:E:436:MET:CE	2.04	0.88
1:F:427:THR:HA	1:F:436:MET:HE1	1.53	0.88
1:I:434:PRO:HB3	1:L:434:PRO:HB3	1.55	0.88
1:I:684:GLU:HG2	1:I:685:LEU:H	1.38	0.88
1:F:949:HIS:HD2	1:F:1020:TRP:HE1	1.22	0.88
1:E:114:VAL:HG13	1:E:115:PRO:HD2	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:427:THR:HA	1:B:436:MET:HE2	1.54	0.88
1:D:142:ILE:HG23	1:D:170:GLU:HG2	1.55	0.88
1:L:360:HIS:ND1	1:L:361:PRO:HD2	1.89	0.88
1:C:237:ARG:HH11	1:C:237:ARG:HG3	1.39	0.87
1:P:261:TRP:CH2	1:P:266:GLN:HB2	2.08	0.87
1:E:894:ARG:NH2	1:E:921:PRO:HD3	1.89	0.87
1:K:261:TRP:HA	1:K:267:VAL:HG23	1.53	0.87
1:P:383:ASN:HD22	1:P:625:GLN:HA	1.39	0.87
1:G:599:ARG:HB2	1:G:600:GLN:HG3	1.54	0.87
1:M:708:TRP:CE3	1:M:709:SER:HB3	2.08	0.87
1:M:66:PRO:HB3	1:M:187:MET:HE3	1.55	0.87
1:M:651:LEU:HD12	1:M:652:LEU:N	1.89	0.87
1:M:822:LEU:HD12	1:M:824:GLN:H	1.40	0.87
1:M:894:ARG:NH2	1:M:921:PRO:HD3	1.88	0.87
1:H:777:LEU:HD12	1:H:889:ALA:HA	1.55	0.87
1:P:685:LEU:HB3	1:P:686:PRO:HD2	1.56	0.87
1:M:166:ARG:HB2	1:M:414:ASN:HD22	1.40	0.87
1:E:16:TRP:CD1	1:E:17:GLU:HG3	2.09	0.87
1:G:79:PRO:HG2	1:G:80:GLU:HG3	1.56	0.87
1:L:892:ALA:HB3	1:L:946:TYR:CE1	2.09	0.87
1:C:166:ARG:HG2	1:C:392:TYR:HB2	1.54	0.87
1:J:635:THR:CG2	1:J:681:GLU:HG3	2.04	0.87
1:L:778:THR:HG23	1:L:779:PRO:HD2	1.56	0.87
1:M:114:VAL:HG13	1:M:115:PRO:HD2	1.56	0.87
1:M:173:LEU:HB3	1:M:177:LEU:HD21	1.57	0.87
1:P:152:LEU:HD12	1:P:153:TRP:N	1.88	0.87
1:P:701:VAL:HG22	1:P:714:ILE:CD1	2.04	0.87
1:M:240:LEU:HD12	1:M:241:GLU:N	1.89	0.87
1:L:36:TRP:CE2	1:L:42:ALA:HA	2.09	0.87
1:O:850:PHE:HD2	1:O:872:VAL:HG13	1.39	0.87
1:E:227:VAL:HG13	1:E:240:LEU:CD1	2.05	0.86
1:P:822:LEU:HD12	1:P:823:LEU:N	1.89	0.86
1:D:894:ARG:NH2	1:D:921:PRO:HD3	1.89	0.86
1:L:360:HIS:CE1	1:L:362:LEU:HB2	2.09	0.86
1:H:946:TYR:CE2	1:H:982:THR:HG21	2.11	0.86
1:K:601:PHE:CE2	1:K:795:VAL:HG12	2.11	0.86
1:M:930:VAL:HA	1:M:973:ARG:HD3	1.58	0.86
1:K:292:ARG:HG3	1:K:292:ARG:HH11	1.39	0.86
1:G:789:LEU:HD11	1:G:993:ILE:HG22	1.57	0.86
1:H:23:GLN:HB3	1:H:26:ARG:NH2	1.90	0.86
1:O:377:LEU:HD22	1:O:708:TRP:HA	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:427:THR:HA	1:M:436:MET:CE	2.05	0.86
1:P:204:ARG:HG3	1:P:204:ARG:HH11	1.39	0.86
1:E:27:LEU:HD12	1:E:140:ARG:NH1	1.90	0.86
1:J:691:ALA:HA	1:J:725:ASN:CB	2.05	0.86
1:P:377:LEU:HD23	1:P:708:TRP:HA	1.58	0.86
1:H:873:ALA:HB3	1:H:876:THR:CG2	2.06	0.86
1:O:383:ASN:ND2	1:O:625:GLN:HA	1.90	0.86
1:D:625:GLN:NE2	1:D:716:ALA:HB1	1.89	0.86
1:I:73:TRP:HH2	1:I:187:MET:HB2	1.40	0.86
1:M:422:PRO:HG3	1:P:284:GLY:CA	2.06	0.86
1:D:822:LEU:HD12	1:D:823:LEU:H	1.39	0.86
1:J:770:ILE:HD12	1:J:775:GLN:NE2	1.90	0.86
1:N:822:LEU:HD12	1:N:823:LEU:N	1.91	0.86
1:N:740:LEU:HD12	1:N:741:THR:N	1.90	0.86
1:J:460:ASN:ND2	1:J:461:GLU:HG3	1.88	0.86
1:P:970:THR:HG21	1:P:976:LEU:HD23	1.55	0.86
1:L:100:TYR:CE2	1:L:602:CYS:HB3	2.10	0.86
1:M:685:LEU:HB3	1:M:686:PRO:HD2	1.58	0.86
1:F:857:ARG:HG2	1:F:857:ARG:HH11	1.40	0.86
1:I:114:VAL:HG13	1:I:115:PRO:HD2	1.57	0.86
1:M:54:LEU:HB2	1:M:212:VAL:CG1	2.05	0.85
1:P:100:TYR:CE2	1:P:598:ASP:HB2	2.11	0.85
1:B:38:ASN:HD22	1:B:41:GLU:HG3	1.40	0.85
1:A:949:HIS:HD2	1:A:1020:TRP:HE1	1.17	0.85
1:A:38:ASN:HD22	1:A:41:GLU:H	1.24	0.85
1:P:894:ARG:NH1	1:P:920:LEU:HA	1.90	0.85
1:K:360:HIS:CE1	1:K:362:LEU:HB2	2.11	0.85
1:G:240:LEU:HD23	1:G:293:LEU:HD12	1.58	0.85
1:K:78:LEU:HB3	1:K:79:PRO:HD2	1.58	0.85
1:K:768:MET:HG3	1:K:769:TRP:N	1.91	0.85
1:E:637:GLU:HG3	1:E:679:LEU:CD2	2.07	0.85
1:I:251:ARG:HB3	1:I:253:TYR:HE1	1.41	0.85
1:C:227:VAL:HG13	1:C:240:LEU:HD11	1.59	0.85
1:L:152:LEU:HD12	1:L:153:TRP:N	1.92	0.85
1:F:685:LEU:HB3	1:F:686:PRO:HD2	1.58	0.85
1:J:653:HIS:CD2	1:J:667:GLU:HG2	2.12	0.85
1:H:878:HIS:CD2	1:H:1010:SER:HB3	2.12	0.85
1:P:377:LEU:CD2	1:P:708:TRP:HA	2.06	0.85
1:M:1011:ALA:HB3	1:M:1014:TYR:CZ	2.11	0.85
1:G:833:ALA:HB2	1:G:859:ASP:HA	1.57	0.85
1:M:696:LEU:HD12	1:M:697:THR:N	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:125:LEU:HD12	1:H:126:THR:H	1.42	0.85
1:G:241:GLU:HG3	1:G:292:ARG:HG2	1.59	0.85
1:K:768:MET:HG2	1:K:775:GLN:CG	2.07	0.85
1:E:23:GLN:HB3	1:E:26:ARG:NH2	1.92	0.84
1:K:843:GLN:CG	1:K:848:THR:HG23	2.05	0.84
1:E:635:THR:HG23	1:E:681:GLU:HG3	1.59	0.84
1:L:777:LEU:CD1	1:L:889:ALA:HA	2.06	0.84
1:G:78:LEU:HB3	1:G:79:PRO:HD2	1.58	0.84
1:O:694:LEU:HB3	1:O:722:LEU:HB2	1.58	0.84
1:G:114:VAL:HG13	1:G:115:PRO:HD2	1.59	0.84
1:K:23:GLN:HB3	1:K:26:ARG:HH21	1.43	0.84
1:M:127:PHE:HE1	1:M:184:LEU:HG	1.42	0.84
1:H:570:TRP:CD1	1:H:571:VAL:HG22	2.12	0.84
1:M:356:ARG:HH11	1:M:356:ARG:HG2	1.42	0.84
1:M:539:ALA:HB3	1:M:567:VAL:HG13	1.59	0.84
1:I:251:ARG:HB3	1:I:253:TYR:CE1	2.13	0.84
1:B:892:ALA:HB3	1:B:946:TYR:CE1	2.12	0.84
1:H:454:ILE:HD12	1:H:455:ILE:HG13	1.59	0.84
1:M:946:TYR:CE2	1:M:982:THR:HG21	2.12	0.84
1:L:440:VAL:HG21	1:L:471:LEU:HD13	1.60	0.84
1:P:166:ARG:HG2	1:P:392:TYR:HB2	1.57	0.84
1:K:658:LEU:HD12	1:K:659:ASP:N	1.93	0.84
1:K:533:LEU:HD12	1:K:534:ILE:N	1.93	0.84
1:C:427:THR:HA	1:C:436:MET:CE	2.07	0.84
1:N:245:GLN:HG2	1:N:288:ARG:HG2	1.60	0.84
1:P:36:TRP:CE2	1:P:42:ALA:HA	2.11	0.83
1:M:572:ASP:HB3	1:M:603:MET:HB3	1.57	0.83
1:N:360:HIS:HE1	1:N:362:LEU:HB2	1.41	0.83
1:H:166:ARG:HG3	1:H:392:TYR:HB2	1.59	0.83
1:E:69:VAL:HG13	1:E:70:PRO:HD2	1.58	0.83
1:P:767:GLN:NE2	1:P:774:LYS:HB3	1.93	0.83
1:A:251:ARG:HB3	1:A:253:TYR:CE1	2.12	0.83
1:D:73:TRP:CZ2	1:D:122:CYS:HB3	2.13	0.83
1:L:894:ARG:HH21	1:L:921:PRO:HD3	1.42	0.83
1:E:147:ASN:HB2	1:E:209:PHE:HE2	1.42	0.83
1:D:685:LEU:HB3	1:D:686:PRO:HD2	1.60	0.83
1:G:59:ARG:CZ	1:G:81:ALA:HB3	2.08	0.83
1:K:658:LEU:HD11	1:K:692:GLY:HA3	1.61	0.83
1:M:623:GLN:HE21	1:M:623:GLN:HA	1.42	0.83
1:H:57:GLU:HG2	1:H:83:THR:CG2	2.07	0.83
1:J:129:VAL:HG21	1:J:177:LEU:CD1	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:777:LEU:CD1	1:F:889:ALA:HA	2.07	0.83
1:P:650:GLU:HB3	1:P:670:LEU:HB2	1.59	0.83
1:P:210:ARG:NH1	1:P:395:HIS:H	1.76	0.83
1:H:86:VAL:HG13	1:H:87:PRO:HA	1.58	0.83
1:E:360:HIS:CG	1:E:361:PRO:HD2	2.11	0.83
1:J:597:ASN:ND2	1:J:599:ARG:H	1.76	0.83
1:O:570:TRP:CD1	1:O:571:VAL:HG22	2.14	0.83
1:P:780:LEU:HD12	1:P:886:CYS:HB3	1.59	0.83
1:H:746:ASP:CA	1:H:760:ARG:HG3	2.09	0.83
1:E:668:VAL:HG13	1:E:669:PRO:HD2	1.59	0.83
1:H:833:ALA:HB1	1:H:858:ILE:O	1.79	0.83
1:P:166:ARG:HE	1:P:210:ARG:NH2	1.75	0.83
1:P:129:VAL:HG23	1:P:182:ASN:HD22	1.43	0.83
1:K:232:ASN:HD21	1:K:237:ARG:H	1.27	0.83
1:E:890:GLN:HG3	1:E:891:VAL:H	1.43	0.83
1:E:261:TRP:CH2	1:E:266:GLN:HB2	2.13	0.83
1:A:894:ARG:NH2	1:A:921:PRO:HD3	1.92	0.83
1:N:160:GLY:HA3	1:N:171:PHE:CE2	2.13	0.83
1:H:251:ARG:HB3	1:H:253:TYR:CE1	2.13	0.83
1:G:939:CYS:HA	1:G:956:GLN:HB3	1.59	0.83
1:N:355:ASN:HD22	1:N:355:ASN:H	1.25	0.83
1:M:146:VAL:HG11	1:M:150:PHE:CD1	2.14	0.82
1:M:127:PHE:CE1	1:M:184:LEU:HG	2.13	0.82
1:F:927:THR:HG21	1:F:929:TYR:CZ	2.13	0.82
1:M:102:ASN:HD22	1:M:201:ASP:HB2	1.42	0.82
1:I:770:ILE:HD11	1:I:1022:GLN:HG2	1.61	0.82
1:M:79:PRO:HG2	1:M:80:GLU:HG3	1.61	0.82
1:H:718:GLN:HG3	1:H:719:GLN:H	1.43	0.82
1:O:7:LEU:HD13	1:O:74:LEU:HD11	1.61	0.82
1:J:427:THR:HA	1:J:436:MET:HE2	1.61	0.82
1:P:937:LEU:HD23	1:P:938:ARG:N	1.94	0.82
1:G:166:ARG:HB2	1:G:414:ASN:ND2	1.94	0.82
1:P:100:TYR:HB2	1:P:203:TRP:CE3	2.14	0.82
1:A:427:THR:HA	1:A:436:MET:CE	2.08	0.82
1:L:583:ASN:HD22	1:L:583:ASN:N	1.77	0.82
1:B:128:ASN:HD21	1:B:180:GLY:HA2	1.43	0.82
1:A:131:GLU:HB2	1:A:135:GLN:HE22	1.42	0.82
1:B:7:LEU:HD13	1:B:74:LEU:HD11	1.61	0.82
1:E:36:TRP:CD2	1:E:42:ALA:HB2	2.15	0.82
1:P:118:ASN:HD21	1:P:191:TRP:HB2	1.42	0.82
1:D:251:ARG:HB3	1:D:253:TYR:CE1	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:86:VAL:HG13	1:G:87:PRO:HA	1.59	0.82
1:F:7:LEU:CD1	1:F:74:LEU:HD11	2.08	0.82
1:P:23:GLN:HB3	1:P:26:ARG:NH2	1.95	0.82
1:K:262:GLN:HE22	1:K:299:LYS:HD2	1.45	0.82
1:E:377:LEU:HD23	1:E:708:TRP:HA	1.62	0.82
1:L:258:VAL:HG12	1:L:293:LEU:HD11	1.61	0.82
1:M:141:ILE:CD1	1:M:214:LEU:HD21	2.10	0.82
1:P:906:TYR:HB3	1:P:907:PRO:HD2	1.59	0.82
1:L:583:ASN:H	1:L:583:ASN:ND2	1.76	0.82
1:P:946:TYR:CE2	1:P:982:THR:HG21	2.15	0.82
1:F:780:LEU:HD12	1:F:886:CYS:HB3	1.61	0.82
1:I:949:HIS:HD2	1:I:1020:TRP:HE1	1.26	0.82
1:P:777:LEU:CD1	1:P:889:ALA:HA	2.09	0.82
1:P:166:ARG:NE	1:P:210:ARG:HH21	1.78	0.82
1:M:251:ARG:HB3	1:M:253:TYR:CE1	2.14	0.82
1:K:937:LEU:HG	1:K:938:ARG:H	1.42	0.82
1:I:102:ASN:ND2	1:I:201:ASP:HB2	1.94	0.82
1:M:30:HIS:HB2	1:M:31:PRO:HD2	1.61	0.82
1:H:833:ALA:CB	1:H:859:ASP:HA	2.10	0.82
1:G:822:LEU:HD12	1:G:823:LEU:N	1.95	0.82
1:B:166:ARG:HG2	1:B:392:TYR:CB	2.10	0.82
1:L:546:LEU:CD2	1:L:616:ALA:HB1	2.09	0.82
1:H:653:HIS:CD2	1:H:667:GLU:HG2	2.14	0.82
1:E:70:PRO:HG2	1:E:78:LEU:HD11	1.59	0.82
1:M:18:ASN:ND2	1:M:21:VAL:HG23	1.95	0.82
1:G:635:THR:HG23	1:G:681:GLU:HA	1.62	0.82
1:E:197:LEU:HD12	1:E:439:ARG:NE	1.95	0.82
1:M:623:GLN:NE2	1:M:623:GLN:HA	1.94	0.82
1:P:210:ARG:HH12	1:P:395:HIS:H	1.26	0.81
1:K:949:HIS:HD2	1:K:1020:TRP:HE1	1.24	0.81
1:D:210:ARG:NH1	1:D:395:HIS:N	2.28	0.81
1:N:595:THR:HG22	1:N:596:PRO:HA	1.61	0.81
1:D:572:ASP:HB3	1:D:603:MET:CG	2.07	0.81
1:I:253:TYR:H	1:I:253:TYR:HD1	1.27	0.81
1:H:102:ASN:HD22	1:H:201:ASP:HB2	1.45	0.81
1:I:279:ILE:HD11	1:L:422:PRO:HG2	1.61	0.81
1:F:427:THR:HA	1:F:436:MET:CE	2.09	0.81
1:I:73:TRP:CH2	1:I:187:MET:HB2	2.16	0.81
1:J:102:ASN:ND2	1:J:201:ASP:HB2	1.95	0.81
1:P:682:LEU:HD22	1:P:683:PRO:HD2	1.61	0.81
1:C:542:MET:HE3	1:C:601:PHE:HA	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:100:TYR:CE2	1:J:602:CYS:HB3	2.16	0.81
1:J:542:MET:HE3	1:J:601:PHE:HA	1.62	0.81
1:K:568:TRP:CD2	1:K:569:ASP:HB3	2.15	0.81
1:M:696:LEU:HD12	1:M:697:THR:H	1.42	0.81
1:J:65:ALA:HB1	1:J:66:PRO:HD2	1.61	0.81
1:K:599:ARG:HB2	1:K:600:GLN:HG3	1.60	0.81
1:N:166:ARG:HG2	1:N:392:TYR:HB2	1.60	0.81
1:D:43:ARG:NH2	1:D:264:GLU:HG2	1.96	0.81
1:P:656:VAL:CB	1:P:664:ALA:HB3	2.04	0.81
1:K:746:ASP:CA	1:K:760:ARG:HG3	2.09	0.81
1:N:281:GLU:HG3	1:O:515:VAL:HG21	1.63	0.81
1:J:227:VAL:CG1	1:J:240:LEU:HD11	2.11	0.81
1:E:974:HIS:CE1	1:E:975:LEU:HG	2.15	0.81
1:O:822:LEU:HD12	1:O:823:LEU:N	1.95	0.81
1:H:393:PRO:HD2	1:H:414:ASN:HB2	1.61	0.81
1:E:14:ARG:HG2	1:E:14:ARG:HH11	1.44	0.81
1:N:227:VAL:HG13	1:N:240:LEU:HD11	1.63	0.81
1:H:890:GLN:HG3	1:H:891:VAL:N	1.94	0.81
1:N:114:VAL:HG22	1:N:115:PRO:HD2	1.60	0.81
1:G:210:ARG:NH1	1:G:395:HIS:N	2.29	0.81
1:M:78:LEU:HB3	1:M:79:PRO:HD2	1.63	0.81
1:O:568:TRP:HE1	1:O:604:ASN:ND2	1.77	0.81
1:K:768:MET:HG2	1:K:775:GLN:HG2	1.61	0.81
1:J:84:VAL:HG12	1:J:85:VAL:H	1.46	0.81
1:M:741:THR:HG22	1:M:742:THR:H	1.46	0.81
1:H:1018:LEU:HD22	1:H:1019:VAL:N	1.96	0.81
1:F:36:TRP:CG	1:F:42:ALA:HB2	2.16	0.81
1:P:460:ASN:ND2	1:P:461:GLU:HG3	1.96	0.81
1:H:590:GLY:N	1:H:597:ASN:ND2	2.29	0.81
1:B:782:ASP:HA	1:B:884:LEU:HD23	1.63	0.81
1:E:360:HIS:CE1	1:E:362:LEU:HB2	2.16	0.81
1:C:316:HIS:HA	1:C:323:ILE:HD12	1.61	0.81
1:O:356:ARG:HH22	1:O:367:MET:HE1	1.45	0.81
1:M:360:HIS:HE1	1:M:362:LEU:HB2	1.44	0.80
1:L:581:ASN:HB3	1:L:583:ASN:HD21	1.46	0.80
1:J:100:TYR:CZ	1:J:602:CYS:HB3	2.15	0.80
1:D:79:PRO:HG2	1:D:80:GLU:CG	2.10	0.80
1:L:79:PRO:HG2	1:L:80:GLU:HG2	1.61	0.80
1:M:890:GLN:HG3	1:M:891:VAL:H	1.46	0.80
1:L:129:VAL:HG21	1:L:177:LEU:HD13	1.61	0.80
1:M:823:LEU:HB2	1:M:839:ALA:O	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:949:HIS:CD2	1:I:1020:TRP:HE1	1.98	0.80
1:L:906:TYR:HB3	1:L:907:PRO:HD2	1.64	0.80
1:M:355:ASN:N	1:M:355:ASN:HD22	1.75	0.80
1:K:427:THR:HA	1:K:436:MET:CE	2.11	0.80
1:H:634:GLN:N	1:H:634:GLN:NE2	2.29	0.80
1:E:152:LEU:HD12	1:E:153:TRP:N	1.96	0.80
1:M:114:VAL:HG22	1:M:191:TRP:HB3	1.61	0.80
1:G:210:ARG:HH12	1:G:395:HIS:N	1.78	0.80
1:P:91:GLN:HB3	1:P:98:PRO:HD3	1.62	0.80
1:G:237:ARG:CD	1:G:296:GLU:HG2	2.11	0.80
1:J:786:ARG:HH11	1:J:990:HIS:HE1	1.28	0.80
1:B:599:ARG:HB2	1:B:600:GLN:HG3	1.61	0.80
1:E:66:PRO:HD2	1:E:67:GLU:HG2	1.62	0.80
1:I:100:TYR:CE1	1:I:602:CYS:HB3	2.17	0.80
1:M:801:ILE:HG23	1:M:808:GLU:HG3	1.63	0.80
1:J:251:ARG:HB3	1:J:253:TYR:CE1	2.15	0.80
1:K:857:ARG:HG2	1:K:857:ARG:HH11	1.46	0.80
1:M:777:LEU:HD11	1:M:889:ALA:CA	2.11	0.80
1:E:949:HIS:HD2	1:E:1020:TRP:HE1	1.26	0.80
1:N:635:THR:HG23	1:N:681:GLU:HG3	1.63	0.80
1:P:140:ARG:HG2	1:P:215:LEU:HB3	1.64	0.80
1:H:1018:LEU:HD22	1:H:1019:VAL:H	1.44	0.80
1:A:928:PRO:HB2	1:A:973:ARG:HH11	1.45	0.80
1:E:251:ARG:HB3	1:E:253:TYR:CE1	2.17	0.80
1:K:51:LEU:HD12	1:K:52:ARG:N	1.96	0.80
1:F:701:VAL:O	1:F:703:PRO:HD3	1.82	0.80
1:O:822:LEU:HD12	1:O:824:GLN:H	1.47	0.80
1:K:382:ASN:ND2	1:K:617:LEU:HD21	1.96	0.80
1:I:400:THR:O	1:I:404:ARG:HG3	1.82	0.80
1:P:128:ASN:ND2	1:P:180:GLY:HA2	1.96	0.80
1:D:197:LEU:HD12	1:D:439:ARG:HE	1.43	0.80
1:B:894:ARG:NH2	1:B:921:PRO:HD3	1.97	0.80
1:P:166:ARG:HB2	1:P:414:ASN:HD22	1.47	0.80
1:L:949:HIS:HD2	1:L:1020:TRP:HE1	1.27	0.80
1:L:1018:LEU:HD23	1:L:1019:VAL:H	1.46	0.80
1:P:890:GLN:HG3	1:P:891:VAL:N	1.97	0.80
1:L:128:ASN:HD21	1:L:180:GLY:HA2	1.47	0.80
1:K:14:ARG:HH11	1:K:14:ARG:HG2	1.44	0.80
1:H:474:TRP:CZ2	1:H:478:VAL:HG21	2.17	0.80
1:A:890:GLN:HG3	1:A:891:VAL:N	1.96	0.80
1:M:391:HIS:N	1:M:391:HIS:ND1	2.29	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:232:ASN:ND2	1:K:237:ARG:H	1.79	0.80
1:G:822:LEU:HD12	1:G:823:LEU:H	1.46	0.80
1:L:400:THR:HG22	1:L:404:ARG:HD2	1.63	0.80
1:L:890:GLN:HG3	1:L:891:VAL:N	1.97	0.80
1:K:559:TYR:CB	1:K:562:LEU:HD12	2.12	0.79
1:M:355:ASN:ND2	1:M:566:PHE:HB3	1.97	0.79
1:A:909:ARG:HD3	1:A:993:ILE:HD11	1.64	0.79
1:H:718:GLN:HG2	1:H:720:TRP:CZ2	2.16	0.79
1:M:569:ASP:O	1:M:605:GLY:HA2	1.82	0.79
1:F:654:TRP:NE1	1:F:666:GLY:HA3	1.97	0.79
1:M:66:PRO:HB3	1:M:187:MET:CE	2.12	0.79
1:B:37:ARG:NH2	1:B:218:PRO:HD3	1.96	0.79
1:N:305:ILE:HD11	1:N:645:ARG:HB3	1.62	0.79
1:P:27:LEU:HD12	1:P:140:ARG:NH1	1.97	0.79
1:J:822:LEU:HD12	1:J:823:LEU:N	1.97	0.79
1:K:152:LEU:HD12	1:K:153:TRP:N	1.97	0.79
1:D:597:ASN:HD22	1:D:599:ARG:H	1.30	0.79
1:B:778:THR:CG2	1:B:779:PRO:HD2	2.13	0.79
1:E:246:MET:HB3	1:E:274:PHE:CZ	2.17	0.79
1:N:654:TRP:NE1	1:N:666:GLY:HA3	1.98	0.79
1:C:7:LEU:HD13	1:C:74:LEU:HD11	1.64	0.79
1:E:34:ALA:HB3	1:E:36:TRP:CE3	2.17	0.79
1:P:274:PHE:HB3	1:P:286:ALA:O	1.82	0.79
1:O:152:LEU:HD12	1:O:153:TRP:N	1.95	0.79
1:O:730:LEU:HD12	1:O:731:PRO:CD	2.10	0.79
1:G:701:VAL:O	1:G:703:PRO:HD3	1.82	0.79
1:M:268:ALA:CB	1:M:293:LEU:HD13	2.12	0.79
1:G:740:LEU:HG	1:G:741:THR:H	1.46	0.79
1:C:258:VAL:HG12	1:C:293:LEU:HD11	1.64	0.79
1:P:796:SER:CB	1:P:802:ASP:H	1.95	0.79
1:M:970:THR:HG23	1:M:975:LEU:HB2	1.63	0.79
1:H:778:THR:HG22	1:H:779:PRO:HD2	1.63	0.79
1:L:777:LEU:HD12	1:L:889:ALA:CA	2.12	0.79
1:P:894:ARG:CZ	1:P:921:PRO:HD3	2.12	0.79
1:P:77:ASP:O	1:P:78:LEU:HD23	1.82	0.79
1:H:205:MET:HE3	1:H:365:GLN:HG3	1.65	0.79
1:E:26:ARG:NH1	1:E:442:ARG:NH1	2.30	0.79
1:L:23:GLN:HB3	1:L:26:ARG:NH2	1.98	0.79
1:G:833:ALA:CB	1:G:859:ASP:HA	2.12	0.79
1:L:227:VAL:HG12	1:L:240:LEU:HD11	1.62	0.79
1:P:801:ILE:O	1:P:803:PRO:HD3	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:429:ASP:OD1	1:I:431:ARG:HD3	1.83	0.79
1:L:103:VAL:HG22	1:L:418:HIS:CE1	2.18	0.79
1:F:356:ARG:HD2	1:F:379:MET:CE	2.12	0.79
1:E:7:LEU:CD1	1:E:74:LEU:HD21	2.13	0.79
1:P:259:SER:CA	1:P:269:SER:HB2	2.13	0.79
1:M:467:ASN:O	1:M:471:LEU:HD12	1.83	0.79
1:O:454:ILE:HG13	1:O:455:ILE:HG13	1.64	0.79
1:F:38:ASN:ND2	1:F:41:GLU:H	1.81	0.79
1:I:227:VAL:CG1	1:I:240:LEU:HD11	2.11	0.79
1:K:360:HIS:HE1	1:K:362:LEU:HB2	1.47	0.79
1:J:672:VAL:HG13	1:J:678:GLN:HB2	1.64	0.79
1:L:372:MET:HG2	1:L:401:LEU:HD12	1.64	0.79
1:E:778:THR:HB	1:E:887:GLN:HB3	1.64	0.79
1:C:654:TRP:CE2	1:C:666:GLY:HA3	2.17	0.79
1:M:129:VAL:HG23	1:M:182:ASN:HD22	1.47	0.79
1:H:166:ARG:HG2	1:H:414:ASN:ND2	1.96	0.79
1:E:890:GLN:HG3	1:E:891:VAL:N	1.96	0.79
1:K:777:LEU:HD11	1:K:889:ALA:HA	1.65	0.79
1:P:213:SER:O	1:P:214:LEU:HD23	1.82	0.78
1:M:777:LEU:HD12	1:M:887:GLN:O	1.82	0.78
1:I:433:LEU:HB3	1:I:434:PRO:HD3	1.65	0.78
1:B:441:THR:HG22	1:B:474:TRP:CH2	2.18	0.78
1:N:282:ARG:NH1	1:O:419:GLY:HA2	1.98	0.78
1:I:63:PHE:HB3	1:I:64:PRO:HD2	1.65	0.78
1:M:307:ASN:O	1:M:308:LEU:HD23	1.83	0.78
1:P:316:HIS:HA	1:P:323:ILE:CD1	2.13	0.78
1:G:597:ASN:HD22	1:G:599:ARG:H	1.28	0.78
1:G:789:LEU:CD1	1:G:993:ILE:HG22	2.12	0.78
1:L:440:VAL:CG2	1:L:471:LEU:HD13	2.12	0.78
1:K:232:ASN:HD21	1:K:237:ARG:N	1.80	0.78
1:N:282:ARG:HG3	1:O:423:MET:HG3	1.65	0.78
1:J:906:TYR:HB3	1:J:907:PRO:HD2	1.65	0.78
1:M:369:GLU:O	1:M:373:VAL:HG23	1.83	0.78
1:P:36:TRP:CD1	1:P:41:GLU:HB3	2.18	0.78
1:D:78:LEU:HB3	1:D:79:PRO:HD2	1.65	0.78
1:L:801:ILE:O	1:L:803:PRO:HD3	1.84	0.78
1:H:23:GLN:HB3	1:H:26:ARG:HH21	1.47	0.78
1:M:279:ILE:HD11	1:P:424:ASN:HB2	1.63	0.78
1:L:217:LYS:HG2	1:L:324:GLU:OE2	1.83	0.78
1:P:387:VAL:CG1	1:P:407:LEU:HD13	2.14	0.78
1:H:125:LEU:HD12	1:H:126:THR:N	1.97	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:131:GLU:HB2	1:M:135:GLN:NE2	1.97	0.78
1:D:906:TYR:HB3	1:D:907:PRO:HD2	1.66	0.78
1:E:701:VAL:HG22	1:E:714:ILE:CD1	2.14	0.78
1:P:464:HIS:HB2	1:P:489:GLY:HA3	1.66	0.78
1:P:210:ARG:HH12	1:P:395:HIS:N	1.80	0.78
1:H:570:TRP:HD1	1:H:571:VAL:HG22	1.49	0.78
1:G:436:MET:HE3	1:G:467:ASN:HD22	1.49	0.78
1:N:746:ASP:HA	1:N:760:ARG:HG3	1.65	0.78
1:O:128:ASN:ND2	1:O:180:GLY:HA2	1.99	0.78
1:H:928:PRO:HB2	1:H:973:ARG:HH11	1.49	0.78
1:E:571:VAL:HG12	1:E:607:VAL:HG23	1.65	0.78
1:I:43:ARG:HH21	1:I:264:GLU:HG2	1.49	0.78
1:K:197:LEU:HD22	1:K:415:ILE:HG23	1.64	0.78
1:I:684:GLU:HG2	1:I:685:LEU:N	1.99	0.78
1:H:147:ASN:HB2	1:H:209:PHE:HE1	1.47	0.78
1:L:583:ASN:ND2	1:L:583:ASN:N	2.31	0.78
1:G:18:ASN:ND2	1:G:21:VAL:HG23	1.98	0.78
1:E:578:TYR:CE1	1:E:584:PRO:HB3	2.19	0.78
1:F:129:VAL:HG11	1:F:177:LEU:HD13	1.65	0.78
1:E:427:THR:HA	1:E:436:MET:HE3	1.65	0.78
1:P:114:VAL:HB	1:P:115:PRO:HD2	1.66	0.78
1:M:260:LEU:HD12	1:M:261:TRP:H	1.47	0.78
1:B:423:MET:HG3	1:C:282:ARG:HG3	1.64	0.78
1:L:928:PRO:HB2	1:L:973:ARG:NH1	1.98	0.78
1:B:377:LEU:HD23	1:B:708:TRP:HA	1.66	0.78
1:H:164:ASP:OD2	1:H:167:LEU:HD12	1.84	0.77
1:H:609:ALA:N	3:H:1289:HOH:O	2.16	0.77
1:F:307:ASN:O	1:F:308:LEU:HD23	1.83	0.77
1:I:653:HIS:CD2	1:I:667:GLU:HG2	2.19	0.77
1:P:926:TYR:O	1:P:928:PRO:HD3	1.84	0.77
1:H:36:TRP:O	1:H:37:ARG:HD3	1.84	0.77
1:I:440:VAL:O	1:I:444:VAL:HG23	1.84	0.77
1:P:894:ARG:NH2	1:P:921:PRO:HD3	2.00	0.77
1:M:131:GLU:HB2	1:M:135:GLN:HE22	1.49	0.77
1:L:890:GLN:HG3	1:L:891:VAL:H	1.49	0.77
1:M:268:ALA:HB1	1:M:293:LEU:HD13	1.65	0.77
1:A:685:LEU:HB3	1:A:686:PRO:HD2	1.66	0.77
1:J:441:THR:O	1:J:445:GLN:HG3	1.84	0.77
1:F:595:THR:HG23	1:F:596:PRO:HA	1.67	0.77
1:F:438:GLU:O	1:F:442:ARG:HG3	1.83	0.77
1:I:678:GLN:C	1:I:679:LEU:HD23	2.04	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:36:TRP:HD1	1:P:41:GLU:HB3	1.50	0.77
1:H:696:LEU:HD12	1:H:697:THR:H	1.46	0.77
1:M:512:PHE:CE2	1:M:517:LYS:HG3	2.20	0.77
1:G:254:LEU:O	1:G:255:ARG:HD3	1.84	0.77
1:N:668:VAL:HG11	1:N:680:ILE:CD1	2.15	0.77
1:D:375:ASP:O	1:D:379:MET:HG3	1.84	0.77
1:O:53:SER:O	1:O:54:LEU:HD23	1.85	0.77
1:M:440:VAL:O	1:M:444:VAL:HG23	1.84	0.77
1:F:38:ASN:ND2	1:F:41:GLU:HG3	1.98	0.77
1:J:111:PRO:HG3	1:J:196:TYR:CE1	2.20	0.77
1:N:701:VAL:O	1:N:703:PRO:HD3	1.85	0.77
1:G:685:LEU:HB3	1:G:686:PRO:HD2	1.65	0.77
1:B:262:GLN:HE22	1:B:299:LYS:HD2	1.50	0.77
1:F:66:PRO:HB3	1:F:187:MET:CE	2.15	0.77
1:P:23:GLN:O	1:P:24:LEU:HD13	1.84	0.77
1:L:166:ARG:HG2	1:L:392:TYR:HB2	1.66	0.77
1:O:597:ASN:ND2	1:O:599:ARG:H	1.81	0.77
1:G:906:TYR:HB3	1:G:907:PRO:HD2	1.65	0.77
1:L:654:TRP:NE1	1:L:666:GLY:HA3	1.99	0.77
1:F:835:LEU:C	1:F:836:ILE:HD13	2.04	0.77
1:P:360:HIS:CG	1:P:361:PRO:HD2	2.19	0.77
1:J:355:ASN:N	1:J:355:ASN:HD22	1.80	0.77
1:E:123:TYR:CG	1:E:208:ILE:HD12	2.19	0.77
1:O:202:MET:HE3	1:O:357:HIS:CD2	2.18	0.77
1:M:251:ARG:HD2	1:M:253:TYR:OH	1.85	0.77
1:L:833:ALA:HB1	1:L:858:ILE:O	1.84	0.77
1:F:6:SER:OG	1:F:9:VAL:HG23	1.85	0.77
1:M:231:PHE:CD2	1:M:238:ALA:HB2	2.19	0.77
1:E:35:SER:O	1:E:50:GLN:HG2	1.85	0.77
1:P:145:GLY:HA3	1:P:210:ARG:HG3	1.66	0.77
1:E:77:ASP:C	1:E:78:LEU:HD23	2.04	0.77
1:I:59:ARG:NH2	1:I:81:ALA:HB3	1.99	0.77
1:H:240:LEU:HD12	1:H:241:GLU:N	1.98	0.77
1:B:888:LEU:O	1:B:981:GLY:HA3	1.85	0.77
1:K:890:GLN:HG3	1:K:891:VAL:N	2.00	0.77
1:C:37:ARG:HG3	1:C:37:ARG:HH11	1.50	0.77
1:I:487:GLU:HG2	1:I:491:ALA:HB2	1.67	0.77
1:O:100:TYR:CE1	1:O:598:ASP:HB2	2.19	0.77
1:F:40:GLU:HG2	1:F:43:ARG:NH1	1.99	0.77
1:H:440:VAL:O	1:H:444:VAL:HG23	1.84	0.77
1:K:878:HIS:CD2	1:K:1010:SER:HB3	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:937:LEU:O	1:A:938:ARG:HG2	1.85	0.77
1:G:360:HIS:HE1	1:G:362:LEU:HB2	1.47	0.77
1:E:59:ARG:NH2	1:E:81:ALA:HB3	2.00	0.77
1:N:822:LEU:HD12	1:N:824:GLN:H	1.49	0.77
1:I:651:LEU:HD12	1:I:652:LEU:N	2.00	0.77
1:B:570:TRP:CD1	1:B:571:VAL:HG13	2.19	0.77
1:F:599:ARG:HD2	1:F:600:GLN:OE1	1.83	0.77
1:N:188:VAL:C	1:N:189:LEU:HD23	2.05	0.77
1:L:974:HIS:C	1:L:975:LEU:HD23	2.05	0.77
1:J:356:ARG:HH11	1:J:356:ARG:HG2	1.50	0.77
1:I:427:THR:HA	1:I:436:MET:CE	2.14	0.77
1:M:240:LEU:HD12	1:M:241:GLU:H	1.49	0.77
1:E:79:PRO:HG2	1:E:80:GLU:HG3	1.67	0.77
1:E:4:THR:HG21	1:H:12:GLN:HG2	1.65	0.77
1:L:125:LEU:HD12	1:L:126:THR:N	1.99	0.77
1:M:3:ILE:O	1:M:6:SER:HB3	1.85	0.76
1:M:123:TYR:CD2	1:M:208:ILE:HD12	2.20	0.76
1:P:650:GLU:HB3	1:P:670:LEU:CB	2.14	0.76
1:C:654:TRP:NE1	1:C:666:GLY:HA3	1.99	0.76
1:E:930:VAL:HA	1:E:973:ARG:HD3	1.67	0.76
1:G:23:GLN:O	1:G:24:LEU:HD13	1.85	0.76
1:C:38:ASN:ND2	1:C:41:GLU:HG3	2.00	0.76
1:F:894:ARG:NH2	1:F:921:PRO:HD3	2.00	0.76
1:J:881:ARG:HD3	1:J:987:ASP:OD1	1.85	0.76
1:A:473:ARG:O	1:A:473:ARG:HD3	1.85	0.76
1:K:420:MET:HE3	1:K:420:MET:HA	1.64	0.76
1:P:696:LEU:HD12	1:P:697:THR:H	1.47	0.76
1:O:682:LEU:HB3	1:O:683:PRO:HD2	1.65	0.76
1:L:227:VAL:HG12	1:L:240:LEU:CD1	2.15	0.76
1:J:786:ARG:HH11	1:J:990:HIS:CE1	2.03	0.76
1:C:36:TRP:O	1:C:37:ARG:HD3	1.84	0.76
1:M:909:ARG:HG2	1:M:993:ILE:HD11	1.66	0.76
1:I:965:GLN:O	1:I:969:GLU:HG3	1.86	0.76
1:M:237:ARG:HH11	1:M:237:ARG:HG3	1.49	0.76
1:D:930:VAL:HA	1:D:973:ARG:HD3	1.66	0.76
1:N:744:GLU:O	1:N:760:ARG:HD3	1.86	0.76
1:L:682:LEU:HB3	1:L:683:PRO:HD2	1.68	0.76
1:M:395:HIS:CG	1:M:396:PRO:HD2	2.20	0.76
1:M:678:GLN:O	1:M:679:LEU:HD23	1.85	0.76
1:F:338:GLU:O	1:F:339:ASN:C	2.17	0.76
1:D:105:TYR:CE1	1:D:199:ASP:HB2	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:59:ARG:NH2	1:L:81:ALA:HB3	2.01	0.76
1:P:253:TYR:HA	1:P:255:ARG:NH1	1.99	0.76
1:H:66:PRO:HB3	1:H:187:MET:CE	2.15	0.76
1:J:102:ASN:HD22	1:J:201:ASP:HB2	1.50	0.76
1:E:246:MET:HG2	1:E:274:PHE:CE2	2.20	0.76
1:N:515:VAL:HG21	1:O:281:GLU:CD	2.06	0.76
1:H:500:CYS:HA	1:H:534:ILE:O	1.86	0.76
1:J:454:ILE:HG13	1:J:455:ILE:HG13	1.67	0.76
1:F:14:ARG:HG2	1:F:16:TRP:CZ2	2.20	0.76
1:D:427:THR:HA	1:D:436:MET:CE	2.12	0.76
1:J:6:SER:OG	1:J:9:VAL:HG23	1.86	0.76
1:C:655:MET:HG2	1:C:656:VAL:N	1.98	0.76
1:K:188:VAL:C	1:K:189:LEU:HD23	2.05	0.76
1:P:114:VAL:HB	1:P:115:PRO:CD	2.16	0.76
1:G:833:ALA:HB1	1:G:858:ILE:O	1.84	0.76
1:I:413:ALA:HB2	1:I:443:MET:CE	2.16	0.76
1:E:433:LEU:O	1:E:437:SER:HB3	1.86	0.76
1:I:275:GLY:HA2	1:I:286:ALA:HA	1.67	0.76
1:P:729:THR:C	1:P:730:LEU:HD23	2.06	0.76
1:K:369:GLU:O	1:K:373:VAL:HG23	1.85	0.76
1:M:256:VAL:HG23	1:M:274:PHE:CE1	2.21	0.76
1:A:568:TRP:HE1	1:A:604:ASN:HD22	1.34	0.76
1:M:599:ARG:HD2	1:M:600:GLN:OE1	1.86	0.76
1:H:36:TRP:CE2	1:H:42:ALA:HA	2.20	0.76
1:K:167:LEU:HB3	1:K:168:PRO:HD2	1.66	0.76
1:O:789:LEU:HD11	1:O:993:ILE:HG22	1.67	0.76
1:M:412:GLU:HG3	1:M:457:SER:HB3	1.68	0.76
1:F:152:LEU:HD12	1:F:153:TRP:H	1.51	0.76
1:E:52:ARG:HB3	1:E:214:LEU:HB2	1.68	0.76
1:P:210:ARG:NH1	1:P:395:HIS:N	2.33	0.76
1:J:770:ILE:HD12	1:J:775:GLN:CD	2.05	0.76
1:O:920:LEU:HB3	1:O:921:PRO:HD2	1.66	0.76
1:F:420:MET:HE2	1:F:425:ARG:HB3	1.68	0.76
1:I:622:HIS:O	1:I:625:GLN:HG2	1.86	0.76
1:K:225:PHE:HE2	1:K:328:CYS:HG	1.34	0.76
1:K:125:LEU:HD12	1:K:126:THR:H	1.50	0.76
1:H:833:ALA:HB2	1:H:859:ASP:HA	1.68	0.76
1:C:102:ASN:HD22	1:C:201:ASP:HB2	1.50	0.76
1:I:682:LEU:HB3	1:I:683:PRO:HD2	1.68	0.76
1:I:778:THR:HB	1:I:887:GLN:H	1.51	0.76
1:K:750:GLU:CG	1:K:755:ARG:HG2	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:637:GLU:HA	1:L:679:LEU:HD23	1.67	0.76
1:K:974:HIS:O	1:K:975:LEU:HD23	1.85	0.76
1:G:579:ASP:OD2	1:G:583:ASN:HB2	1.85	0.76
1:M:856:TYR:HD2	1:M:864:MET:HE2	1.50	0.76
1:I:34:ALA:HB3	1:I:36:TRP:CZ3	2.21	0.76
1:P:790:ASP:HA	1:P:793:ILE:HD12	1.68	0.75
1:L:654:TRP:CE2	1:L:666:GLY:HA3	2.22	0.75
1:H:486:TYR:CE2	1:H:488:GLY:HA3	2.21	0.75
1:F:102:ASN:HD22	1:F:201:ASP:HB2	1.51	0.75
1:H:7:LEU:HD13	1:H:74:LEU:HD11	1.66	0.75
1:H:685:LEU:HB3	1:H:686:PRO:HD2	1.66	0.75
1:K:635:THR:OG1	1:K:681:GLU:HG2	1.86	0.75
1:P:14:ARG:HG2	1:P:14:ARG:HH11	1.51	0.75
1:M:471:LEU:O	1:M:475:ILE:HG13	1.87	0.75
1:H:274:PHE:HB3	1:H:286:ALA:O	1.84	0.75
1:K:26:ARG:NH1	1:K:442:ARG:HH12	1.82	0.75
1:N:241:GLU:HG3	1:N:292:ARG:HG2	1.69	0.75
1:N:292:ARG:C	1:N:293:LEU:HD23	2.06	0.75
1:L:78:LEU:HB3	1:L:79:PRO:HD2	1.67	0.75
1:B:896:ASN:HB2	1:B:919:ASP:OD1	1.85	0.75
1:E:395:HIS:CG	1:E:396:PRO:HD2	2.21	0.75
1:M:789:LEU:O	1:M:793:ILE:HG13	1.86	0.75
1:C:658:LEU:O	1:C:661:LYS:HD3	1.86	0.75
1:E:167:LEU:HD23	1:E:446:ARG:NH1	2.00	0.75
1:P:24:LEU:HB2	1:P:161:TYR:HB3	1.68	0.75
1:J:436:MET:HE3	1:J:467:ASN:HD22	1.52	0.75
1:G:260:LEU:O	1:G:267:VAL:HG23	1.85	0.75
1:N:392:TYR:HB3	1:N:414:ASN:HB2	1.67	0.75
1:M:285:TYR:HB3	1:M:288:ARG:HG3	1.69	0.75
1:L:66:PRO:HB3	1:L:187:MET:CE	2.16	0.75
1:A:433:LEU:HD13	1:A:467:ASN:HB3	1.67	0.75
1:D:719:GLN:NE2	1:D:914:CYS:HB2	2.01	0.75
1:K:697:THR:OG1	1:K:719:GLN:HB2	1.87	0.75
1:O:789:LEU:CD1	1:O:993:ILE:HG22	2.16	0.75
1:I:419:GLY:HA2	1:L:282:ARG:NH1	2.01	0.75
1:M:996:ASP:HB2	1:M:1002:SER:HB2	1.67	0.75
1:N:937:LEU:C	1:N:938:ARG:HG2	2.07	0.75
1:G:7:LEU:HD12	1:G:74:LEU:HD11	1.69	0.75
1:K:531:ARG:HB3	1:K:532:PRO:HD2	1.69	0.75
1:A:965:GLN:O	1:A:969:GLU:HG3	1.87	0.75
1:I:587:ALA:HB1	1:I:591:ASP:HB2	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:740:LEU:HD12	1:P:741:THR:N	2.00	0.75
1:M:205:MET:CE	1:M:365:GLN:HG3	2.15	0.75
1:H:100:TYR:HB2	1:H:203:TRP:CE3	2.21	0.75
1:H:590:GLY:N	1:H:597:ASN:HD22	1.84	0.75
1:O:227:VAL:HG13	1:O:240:LEU:HD11	1.69	0.75
1:C:190:ARG:HD3	1:C:191:TRP:CZ2	2.22	0.75
1:N:352:ARG:HB2	1:N:385:ASN:HB2	1.68	0.75
1:O:654:TRP:CE2	1:O:666:GLY:HA3	2.22	0.75
1:E:330:VAL:HA	3:E:1266:HOH:O	1.85	0.75
1:J:197:LEU:HD12	1:J:439:ARG:HE	1.50	0.75
1:P:16:TRP:CD1	1:P:17:GLU:HG3	2.21	0.75
1:K:770:ILE:HD12	1:K:775:GLN:OE1	1.86	0.75
1:O:227:VAL:CG1	1:O:240:LEU:HD11	2.17	0.75
1:P:218:PRO:O	1:P:221:GLN:HB3	1.87	0.75
1:A:668:VAL:HG13	1:A:669:PRO:HD2	1.69	0.75
1:A:529:GLU:OE1	1:A:531:ARG:HG3	1.86	0.75
1:N:658:LEU:HD12	1:N:659:ASP:N	2.02	0.75
1:B:856:TYR:CD2	1:B:866:ILE:HD13	2.21	0.75
1:O:856:TYR:HB3	1:O:864:MET:HE2	1.68	0.75
1:M:310:ARG:HG3	1:M:328:CYS:O	1.86	0.75
1:E:360:HIS:ND1	1:E:361:PRO:HD2	2.01	0.75
1:K:833:ALA:HB1	1:K:858:ILE:O	1.87	0.75
1:J:114:VAL:HB	1:J:115:PRO:HD2	1.68	0.75
1:D:581:ASN:HB2	1:D:583:ASN:HD22	1.51	0.75
1:F:559:TYR:HB2	1:F:562:LEU:HD12	1.68	0.75
1:N:896:ASN:HB2	1:N:919:ASP:OD1	1.86	0.75
1:O:579:ASP:OD2	1:O:583:ASN:HB2	1.87	0.75
1:M:166:ARG:HG3	1:M:392:TYR:HB2	1.68	0.75
1:H:50:GLN:CG	1:H:216:HIS:HB3	2.15	0.75
1:K:738:PRO:HB2	1:K:834:VAL:HG23	1.68	0.75
1:M:1000:SER:HB2	1:M:1001:PRO:HD2	1.67	0.75
1:M:747:PHE:CE1	1:M:760:ARG:HD2	2.21	0.75
1:B:305:ILE:HD11	1:B:645:ARG:HB3	1.66	0.75
1:M:668:VAL:HG13	1:M:669:PRO:HD2	1.67	0.75
1:D:79:PRO:HG2	1:D:80:GLU:HG3	1.69	0.75
1:E:685:LEU:HB3	1:E:686:PRO:HD2	1.67	0.75
1:O:63:PHE:HB3	1:O:64:PRO:HD2	1.68	0.75
1:D:57:GLU:HG2	1:D:83:THR:CG2	2.17	0.75
1:P:572:ASP:HB3	1:P:603:MET:HG3	1.69	0.74
1:M:439:ARG:HH11	1:M:439:ARG:HG3	1.50	0.74
1:L:128:ASN:ND2	1:L:180:GLY:HA2	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:822:LEU:HD12	1:E:823:LEU:N	2.00	0.74
1:B:340:GLY:C	1:B:341:LEU:HD23	2.07	0.74
1:M:334:GLU:O	1:M:344:LEU:HA	1.87	0.74
1:M:7:LEU:HD12	1:M:74:LEU:CD1	2.13	0.74
1:I:134:LEU:HD12	1:I:179:ALA:CB	2.15	0.74
1:E:894:ARG:HH22	1:E:921:PRO:HD3	1.51	0.74
1:P:796:SER:HB2	1:P:802:ASP:H	1.52	0.74
1:G:188:VAL:O	1:G:189:LEU:HD23	1.88	0.74
1:G:369:GLU:O	1:G:373:VAL:HG23	1.87	0.74
1:P:996:ASP:HB2	1:P:1002:SER:HB2	1.69	0.74
1:C:577:LYS:O	1:C:584:PRO:HA	1.87	0.74
1:J:579:ASP:OD2	1:J:583:ASN:HB2	1.87	0.74
1:E:439:ARG:HG2	1:E:439:ARG:HH11	1.52	0.74
1:P:706:THR:HG21	1:P:708:TRP:CZ2	2.22	0.74
1:M:197:LEU:HD12	1:M:439:ARG:NE	2.00	0.74
1:J:427:THR:HA	1:J:436:MET:HE1	1.67	0.74
1:M:970:THR:CG2	1:M:975:LEU:HB2	2.16	0.74
1:M:300:LEU:O	1:M:307:ASN:HB2	1.86	0.74
1:P:814:GLY:O	1:P:815:HIS:C	2.22	0.74
1:J:340:GLY:O	1:J:341:LEU:HD23	1.86	0.74
1:N:210:ARG:HH11	1:N:395:HIS:HB2	1.52	0.74
1:P:398:TRP:CE3	1:P:398:TRP:HA	2.21	0.74
1:P:898:LEU:HD23	1:P:898:LEU:O	1.87	0.74
1:O:166:ARG:HG2	1:O:392:TYR:CB	2.18	0.74
1:G:258:VAL:HG12	1:G:293:LEU:HD11	1.68	0.74
1:E:801:ILE:O	1:E:803:PRO:HD3	1.87	0.74
1:P:166:ARG:CG	1:P:392:TYR:HB2	2.17	0.74
1:M:963:SER:O	1:M:964:GLN:C	2.26	0.74
1:I:474:TRP:O	1:I:478:VAL:HG23	1.87	0.74
1:D:1004:SER:HB2	1:D:1006:GLU:OE2	1.88	0.74
1:O:10:VAL:HG12	1:O:11:LEU:CD2	2.16	0.74
1:L:581:ASN:HB3	1:L:583:ASN:ND2	2.02	0.74
1:N:395:HIS:CG	1:N:396:PRO:HD2	2.23	0.74
1:K:254:LEU:O	1:K:255:ARG:HD3	1.88	0.74
1:N:433:LEU:HB3	1:N:434:PRO:HD3	1.70	0.74
1:C:701:VAL:O	1:C:703:PRO:HD3	1.88	0.74
1:L:210:ARG:NH1	1:L:395:HIS:N	2.35	0.74
1:E:622:HIS:O	1:E:625:GLN:HG2	1.87	0.74
1:O:210:ARG:NH1	1:O:395:HIS:N	2.35	0.74
1:M:213:SER:O	1:M:214:LEU:HD23	1.86	0.74
1:M:708:TRP:CZ3	1:M:709:SER:HB3	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:89:ASN:ND2	1:P:205:MET:HB3	2.03	0.74
1:P:205:MET:HE1	1:P:365:GLN:HG3	1.68	0.74
1:H:801:ILE:O	1:H:803:PRO:HD3	1.87	0.74
1:N:559:TYR:HB2	1:N:562:LEU:HD12	1.69	0.74
1:B:746:ASP:CA	1:B:760:ARG:HG3	2.17	0.74
1:M:456:TRP:HZ2	1:M:482:ARG:HH11	1.34	0.74
1:H:66:PRO:HB3	1:H:187:MET:HE1	1.70	0.74
1:C:237:ARG:NH1	1:C:237:ARG:HG3	2.01	0.74
1:N:240:LEU:HD12	1:N:241:GLU:H	1.53	0.74
1:G:907:PRO:HA	1:G:910:LEU:HD21	1.70	0.74
1:O:528:GLY:O	1:O:530:THR:HG23	1.88	0.74
1:E:965:GLN:O	1:E:969:GLU:HG3	1.87	0.74
1:J:920:LEU:HB3	1:J:921:PRO:HD2	1.69	0.74
1:D:746:ASP:O	1:D:760:ARG:HD2	1.87	0.74
1:K:824:GLN:O	1:K:838:THR:HA	1.88	0.74
1:H:205:MET:CE	1:H:365:GLN:HG3	2.17	0.74
1:K:777:LEU:CD1	1:K:889:ALA:HA	2.18	0.74
1:C:43:ARG:O	1:C:310:ARG:HD3	1.88	0.74
1:O:770:ILE:HD11	1:O:1022:GLN:HG2	1.69	0.74
1:I:91:GLN:HB3	1:I:98:PRO:HD3	1.68	0.74
1:L:486:TYR:CE2	1:L:488:GLY:HA3	2.22	0.74
1:J:701:VAL:O	1:J:703:PRO:HD3	1.88	0.74
1:H:660:GLY:O	1:H:662:PRO:HD3	1.87	0.74
1:P:440:VAL:CG1	1:P:475:ILE:HD11	2.16	0.74
1:J:166:ARG:HG2	1:J:392:TYR:HB2	1.69	0.74
1:E:7:LEU:HD11	1:E:74:LEU:HD21	1.69	0.74
1:N:740:LEU:HD12	1:N:741:THR:H	1.50	0.74
1:P:469:ASP:O	1:P:472:TYR:HB3	1.87	0.74
1:P:3:ILE:O	1:P:6:SER:HB3	1.88	0.73
1:M:36:TRP:CE2	1:M:42:ALA:HA	2.23	0.73
1:P:360:HIS:CE1	1:P:362:LEU:HB2	2.22	0.73
1:H:472:TYR:O	1:H:476:LYS:HG2	1.88	0.73
1:C:920:LEU:HB3	1:C:921:PRO:HD2	1.69	0.73
1:N:102:ASN:HA	1:N:201:ASP:OD1	1.88	0.73
1:J:43:ARG:NH2	1:J:264:GLU:HG3	2.03	0.73
1:E:454:ILE:HG13	1:E:455:ILE:HG13	1.69	0.73
1:P:658:LEU:HB2	1:P:663:LEU:HD11	1.69	0.73
1:J:759:ASN:HB2	1:J:766:SER:OG	1.88	0.73
1:M:778:THR:HG22	1:M:779:PRO:HD2	1.69	0.73
1:P:102:ASN:ND2	1:P:201:ASP:HB2	2.02	0.73
1:P:701:VAL:HG22	1:P:714:ILE:HD13	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:572:ASP:CB	1:H:603:MET:HB3	2.18	0.73
1:H:23:GLN:O	1:H:24:LEU:HD13	1.88	0.73
1:G:237:ARG:HD3	1:G:296:GLU:HG2	1.69	0.73
1:F:654:TRP:CE2	1:F:666:GLY:HA3	2.22	0.73
1:F:40:GLU:HG2	1:F:43:ARG:HH12	1.51	0.73
1:A:85:VAL:O	1:A:88:SER:HB3	1.88	0.73
1:F:571:VAL:HG13	1:F:607:VAL:HG23	1.70	0.73
1:M:682:LEU:HB3	1:M:683:PRO:HD2	1.68	0.73
1:J:377:LEU:HD22	1:J:708:TRP:CA	2.18	0.73
1:L:100:TYR:HB2	1:L:203:TRP:CE3	2.23	0.73
1:B:510:GLN:HG3	3:B:1207:HOH:O	1.88	0.73
1:N:14:ARG:HG2	1:N:14:ARG:HH11	1.53	0.73
1:B:777:LEU:CD1	1:B:889:ALA:HA	2.17	0.73
1:L:894:ARG:HH21	1:L:921:PRO:CD	2.01	0.73
1:M:102:ASN:HD22	1:M:201:ASP:CB	2.01	0.73
1:B:292:ARG:C	1:B:293:LEU:HD23	2.08	0.73
1:E:789:LEU:HD13	1:E:993:ILE:HG22	1.70	0.73
1:I:312:VAL:HG13	1:I:327:ALA:HB2	1.70	0.73
1:L:114:VAL:HG22	1:L:191:TRP:HB3	1.70	0.73
1:J:890:GLN:HG3	1:J:891:VAL:N	2.02	0.73
1:C:829:THR:C	1:C:830:LEU:HD12	2.09	0.73
1:K:558:GLN:O	1:L:522:LYS:HE3	1.89	0.73
1:L:959:ILE:CG1	1:L:984:LEU:HD12	2.19	0.73
1:G:26:ARG:HD2	1:G:442:ARG:NH2	2.04	0.73
1:A:279:ILE:HD11	1:D:422:PRO:HG2	1.70	0.73
1:P:343:LEU:N	1:P:343:LEU:HD23	2.04	0.73
1:N:942:ARG:HA	1:N:953:GLY:O	1.89	0.73
1:D:830:LEU:HB2	1:D:833:ALA:O	1.88	0.73
1:P:316:HIS:CA	1:P:323:ILE:HD13	2.15	0.73
1:P:355:ASN:ND2	1:P:566:PHE:HB3	2.03	0.73
1:L:555:ALA:O	1:L:556:PHE:C	2.26	0.73
1:G:559:TYR:HB2	1:G:562:LEU:HD12	1.69	0.73
1:L:1004:SER:HB2	1:L:1006:GLU:OE2	1.87	0.73
1:C:246:MET:HE2	1:C:287:ASP:HB2	1.70	0.73
1:N:651:LEU:HD13	1:N:669:PRO:HA	1.71	0.73
1:P:209:PHE:HE1	1:P:210:ARG:HE	1.37	0.73
1:O:262:GLN:NE2	1:O:299:LYS:HD2	2.03	0.73
1:E:78:LEU:HB3	1:E:79:PRO:HD2	1.71	0.73
1:H:78:LEU:HD23	1:H:78:LEU:N	2.04	0.73
1:D:251:ARG:HD2	1:D:253:TYR:OH	1.88	0.73
1:J:60:PHE:HB3	1:J:84:VAL:HG21	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:622:HIS:O	1:A:625:GLN:HG2	1.89	0.73
1:H:367:MET:CE	1:H:372:MET:HG3	2.18	0.73
1:A:369:GLU:HG3	1:A:397:LEU:HD21	1.70	0.73
1:C:377:LEU:CD2	1:C:708:TRP:HA	2.18	0.73
1:J:433:LEU:HB3	1:J:434:PRO:HD3	1.68	0.73
1:D:360:HIS:CG	1:D:361:PRO:HD2	2.24	0.73
1:K:581:ASN:ND2	1:K:581:ASN:N	2.36	0.73
1:E:745:MET:HG2	1:E:761:GLN:NE2	2.03	0.73
1:K:661:LYS:HG2	1:K:663:LEU:HD21	1.69	0.73
1:K:102:ASN:HD22	1:K:201:ASP:HB2	1.52	0.73
1:K:678:GLN:O	1:K:679:LEU:HD23	1.88	0.73
1:K:128:ASN:HA	1:K:180:GLY:O	1.88	0.73
1:P:360:HIS:ND1	1:P:361:PRO:HD2	2.04	0.73
1:M:427:THR:HA	1:M:436:MET:HE1	1.69	0.73
1:M:114:VAL:HG13	1:M:115:PRO:CD	2.18	0.73
1:A:949:HIS:CD2	1:A:1020:TRP:HE1	2.04	0.73
1:P:919:ASP:O	1:P:920:LEU:HD23	1.89	0.73
1:O:782:ASP:HA	1:O:884:LEU:HD23	1.71	0.73
1:L:352:ARG:HB2	1:L:385:ASN:HB2	1.70	0.73
1:K:38:ASN:ND2	1:K:41:GLU:HG3	1.99	0.73
1:M:38:ASN:ND2	1:M:41:GLU:HG3	2.01	0.73
1:M:386:ALA:HB1	1:M:408:TYR:O	1.88	0.73
1:H:316:HIS:CA	1:H:323:ILE:HD13	2.19	0.73
1:E:14:ARG:NH1	1:E:16:TRP:HZ2	1.87	0.73
1:B:708:TRP:CE3	1:B:709:SER:HB3	2.24	0.73
1:N:66:PRO:HB3	1:N:187:MET:HE3	1.71	0.73
1:M:59:ARG:NH2	1:M:81:ALA:HB3	2.03	0.73
1:A:7:LEU:CD1	1:A:74:LEU:HD11	2.18	0.73
1:K:316:HIS:CA	1:K:323:ILE:HD12	2.18	0.72
1:C:362:LEU:CD2	1:C:576:ILE:HD12	2.19	0.72
1:L:127:PHE:HE1	1:L:184:LEU:HG	1.52	0.72
1:O:128:ASN:HD21	1:O:180:GLY:HA2	1.54	0.72
1:P:308:LEU:HD13	1:P:329:ASP:HB3	1.69	0.72
1:N:377:LEU:CD2	1:N:708:TRP:HA	2.18	0.72
1:A:742:THR:HG22	1:A:743:SER:H	1.54	0.72
1:M:660:GLY:O	1:M:662:PRO:HD3	1.89	0.72
1:E:533:LEU:HD12	1:E:534:ILE:N	2.04	0.72
1:N:777:LEU:HG	1:N:889:ALA:HB2	1.69	0.72
1:P:141:ILE:HG12	1:P:214:LEU:HD21	1.72	0.72
1:P:317:THR:HG23	1:P:323:ILE:HD11	1.70	0.72
1:P:362:LEU:CD2	1:P:576:ILE:HD12	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:682:LEU:HB3	1:H:683:PRO:HD2	1.71	0.72
1:A:18:ASN:ND2	1:A:21:VAL:HG23	2.03	0.72
1:A:786:ARG:HD3	1:A:880:ALA:HB1	1.69	0.72
1:P:141:ILE:HD13	1:P:142:ILE:N	2.04	0.72
1:P:705:ALA:HA	3:P:1254:HOH:O	1.87	0.72
1:M:102:ASN:OD1	1:M:103:VAL:HG23	1.89	0.72
1:M:974:HIS:CE1	1:M:975:LEU:HD21	2.25	0.72
1:F:66:PRO:HB3	1:F:187:MET:HE1	1.71	0.72
1:K:572:ASP:HB3	1:K:603:MET:HG2	1.70	0.72
1:N:24:LEU:HB2	1:N:161:TYR:HB3	1.69	0.72
1:H:822:LEU:HD12	1:H:823:LEU:H	1.54	0.72
1:L:873:ALA:O	1:L:876:THR:HG22	1.90	0.72
1:M:38:ASN:ND2	1:M:41:GLU:H	1.86	0.72
1:P:203:TRP:CE2	1:P:575:LEU:HD11	2.24	0.72
1:D:622:HIS:O	1:D:625:GLN:HG2	1.89	0.72
1:G:395:HIS:CG	1:G:396:PRO:HD2	2.24	0.72
1:O:91:GLN:HB3	1:O:98:PRO:HD3	1.72	0.72
1:O:432:TRP:O	1:O:436:MET:HG3	1.88	0.72
1:M:281:GLU:HG3	1:P:515:VAL:HG21	1.71	0.72
1:A:989:PHE:CE2	1:A:1014:TYR:HB3	2.25	0.72
1:F:878:HIS:CD2	1:F:1010:SER:HB3	2.24	0.72
1:B:316:HIS:HA	1:B:323:ILE:HD13	1.72	0.72
1:K:36:TRP:CE2	1:K:42:ALA:HA	2.24	0.72
1:N:360:HIS:ND1	1:N:363:HIS:N	2.33	0.72
1:K:51:LEU:HD12	1:K:52:ARG:H	1.52	0.72
1:O:653:HIS:CD2	1:O:667:GLU:HG2	2.24	0.72
1:E:37:ARG:NH2	1:E:218:PRO:HD3	2.03	0.72
1:P:635:THR:CG2	1:P:681:GLU:HG2	2.20	0.72
1:P:796:SER:OG	1:P:801:ILE:HA	1.89	0.72
1:H:608:PHE:HA	3:H:1289:HOH:O	1.87	0.72
1:J:166:ARG:CG	1:J:392:TYR:HB2	2.20	0.72
1:B:701:VAL:HG22	1:B:714:ILE:HD13	1.71	0.72
1:I:159:VAL:HG22	1:I:176:PHE:CE2	2.25	0.72
1:D:708:TRP:CE3	1:D:709:SER:HB3	2.25	0.72
1:D:529:GLU:HG2	3:D:1274:HOH:O	1.87	0.72
1:C:474:TRP:O	1:C:478:VAL:HG23	1.88	0.72
1:L:251:ARG:HB3	1:L:253:TYR:CE1	2.23	0.72
1:M:291:LEU:HD12	1:M:291:LEU:N	2.04	0.72
1:P:777:LEU:HG	1:P:889:ALA:HB2	1.72	0.72
1:K:217:LYS:HG2	1:K:324:GLU:OE2	1.90	0.72
1:E:190:ARG:HD3	1:E:191:TRP:CH2	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:663:LEU:HD23	1:O:663:LEU:N	2.04	0.72
1:E:577:LYS:O	1:E:584:PRO:HA	1.90	0.72
1:G:995:GLY:H	1:G:1002:SER:HB2	1.53	0.72
1:P:18:ASN:CG	1:P:21:VAL:HG23	2.09	0.72
1:E:126:THR:HA	1:E:182:ASN:O	1.89	0.72
1:H:718:GLN:HG3	1:H:719:GLN:N	2.04	0.72
1:O:356:ARG:NH2	1:O:367:MET:HE1	2.05	0.72
1:D:433:LEU:O	1:D:433:LEU:HD12	1.90	0.72
1:P:400:THR:HG22	1:P:404:ARG:CD	2.19	0.72
1:O:509:ASP:O	1:O:511:PRO:HD3	1.90	0.72
1:H:18:ASN:ND2	1:H:21:VAL:HG23	2.05	0.72
1:N:383:ASN:ND2	1:N:625:GLN:HA	2.04	0.72
1:M:780:LEU:HB3	3:M:1255:HOH:O	1.90	0.72
1:L:529:GLU:HG2	3:L:1266:HOH:O	1.89	0.72
1:E:279:ILE:HD11	1:H:424:ASN:HB2	1.72	0.72
1:M:38:ASN:ND2	1:M:41:GLU:N	2.37	0.72
1:P:354:VAL:HG22	1:P:355:ASN:O	1.90	0.72
1:M:474:TRP:O	1:M:478:VAL:HG23	1.89	0.72
1:H:217:LYS:HE2	1:H:324:GLU:OE2	1.90	0.72
1:P:103:VAL:O	1:P:104:THR:C	2.26	0.72
1:I:66:PRO:HB3	1:I:187:MET:CE	2.20	0.72
1:L:7:LEU:CD1	1:L:74:LEU:HD11	2.18	0.72
1:L:928:PRO:HB2	1:L:973:ARG:HH11	1.54	0.72
1:B:377:LEU:CD2	1:B:708:TRP:HA	2.20	0.72
1:G:23:GLN:HB3	1:G:26:ARG:NH2	2.05	0.72
1:I:217:LYS:HG2	1:I:324:GLU:OE2	1.90	0.72
1:G:570:TRP:CD1	1:G:571:VAL:HG22	2.24	0.72
1:F:86:VAL:HG13	1:F:87:PRO:HA	1.72	0.72
1:O:943:GLU:HB2	1:O:952:ARG:HG2	1.71	0.72
1:M:78:LEU:HD23	1:M:78:LEU:N	2.03	0.72
1:K:7:LEU:CD1	1:K:74:LEU:HD21	2.19	0.72
1:I:433:LEU:HD22	1:I:467:ASN:CG	2.10	0.72
1:K:685:LEU:HB3	1:K:686:PRO:HD2	1.71	0.72
1:P:658:LEU:O	1:P:661:LYS:HD3	1.89	0.72
1:H:822:LEU:HD12	1:H:824:GLN:H	1.53	0.72
1:L:782:ASP:HA	1:L:884:LEU:HD23	1.70	0.72
1:M:352:ARG:H	1:M:385:ASN:HB2	1.55	0.72
1:O:353:GLY:O	1:O:566:PHE:HA	1.88	0.72
1:N:368:ASP:OD1	1:N:370:GLN:HB2	1.90	0.72
1:G:1022:GLN:O	1:G:1023:LYS:HG3	1.90	0.71
1:M:91:GLN:HG3	1:M:96:ASP:OD1	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:354:VAL:HG21	1:P:570:TRP:HB2	1.70	0.71
1:I:210:ARG:HH11	1:I:395:HIS:HB2	1.55	0.71
1:P:395:HIS:CE1	1:P:397:LEU:HB2	2.25	0.71
1:O:377:LEU:HD22	1:O:708:TRP:CA	2.19	0.71
1:E:949:HIS:CD2	1:E:1020:TRP:HE1	2.08	0.71
1:G:24:LEU:HB2	1:G:161:TYR:HB3	1.71	0.71
1:N:145:GLY:HA3	1:N:210:ARG:HB2	1.72	0.71
1:K:844:HIS:CE1	1:K:845:GLN:HG3	2.25	0.71
1:F:658:LEU:HD12	1:F:659:ASP:N	2.05	0.71
1:O:60:PHE:HB3	1:O:84:VAL:HG21	1.72	0.71
1:A:316:HIS:HA	1:A:323:ILE:HD12	1.70	0.71
1:J:662:PRO:O	1:J:663:LEU:HD23	1.90	0.71
1:I:427:THR:HG22	1:I:436:MET:HE2	1.71	0.71
1:M:38:ASN:HD22	1:M:41:GLU:CG	2.00	0.71
1:L:23:GLN:O	1:L:24:LEU:HD13	1.90	0.71
1:P:400:THR:O	1:P:404:ARG:HD2	1.90	0.71
1:P:57:GLU:HA	1:P:84:VAL:O	1.90	0.71
1:A:360:HIS:ND1	1:A:361:PRO:HD2	2.05	0.71
1:E:1022:GLN:O	1:E:1023:LYS:HG2	1.90	0.71
1:B:555:ALA:O	1:B:556:PHE:C	2.29	0.71
1:B:114:VAL:HG13	1:B:191:TRP:HB2	1.70	0.71
1:N:77:ASP:O	1:N:78:LEU:HD23	1.89	0.71
1:P:115:PRO:HG2	1:P:191:TRP:CD1	2.25	0.71
1:O:573:GLN:HB2	1:O:602:CYS:O	1.88	0.71
1:K:946:TYR:O	1:K:949:HIS:HB2	1.90	0.71
1:A:928:PRO:HB2	1:A:973:ARG:NH1	2.06	0.71
1:F:660:GLY:O	1:F:662:PRO:HD3	1.89	0.71
1:B:114:VAL:HG13	1:B:115:PRO:HD2	1.71	0.71
1:O:360:HIS:CE1	1:O:362:LEU:HB2	2.26	0.71
1:J:128:ASN:HA	1:J:180:GLY:O	1.90	0.71
1:B:768:MET:HG2	1:B:775:GLN:HB2	1.73	0.71
1:P:38:ASN:HD22	1:P:41:GLU:HG3	1.55	0.71
1:E:261:TRP:CZ3	1:E:266:GLN:HB2	2.26	0.71
1:E:10:VAL:HG21	1:E:153:TRP:HZ2	1.53	0.71
1:M:125:LEU:HD12	1:M:126:THR:N	2.06	0.71
1:N:595:THR:CG2	1:N:596:PRO:HA	2.20	0.71
1:B:597:ASN:HD22	1:B:599:ARG:H	1.38	0.71
1:N:668:VAL:HG11	1:N:680:ILE:HD12	1.73	0.71
1:J:662:PRO:C	1:J:663:LEU:HD23	2.11	0.71
1:L:46:ARG:HB3	1:L:47:PRO:HD2	1.72	0.71
1:O:382:ASN:OD1	1:O:617:LEU:HG	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:592:PHE:HB2	1:L:594:ASP:OD2	1.90	0.71
1:O:261:TRP:CZ3	1:O:266:GLN:HB2	2.26	0.71
1:O:78:LEU:HD22	1:O:79:PRO:HD3	1.72	0.71
1:E:88:SER:HA	1:E:366:VAL:HG21	1.73	0.71
1:P:7:LEU:HD13	1:P:74:LEU:HD11	1.71	0.71
1:P:456:TRP:CE2	1:P:482:ARG:HD2	2.24	0.71
1:P:906:TYR:O	1:P:910:LEU:HD23	1.90	0.71
1:K:823:LEU:HB2	1:K:839:ALA:O	1.90	0.71
1:H:114:VAL:HG13	1:H:115:PRO:CD	2.20	0.71
1:M:284:GLY:CA	1:P:422:PRO:HG3	2.20	0.71
1:L:315:LEU:O	1:L:323:ILE:HB	1.90	0.71
1:J:919:ASP:C	1:J:920:LEU:HD23	2.10	0.71
1:P:454:ILE:O	1:P:455:ILE:HG12	1.89	0.71
1:K:1011:ALA:HB3	1:K:1014:TYR:CZ	2.25	0.71
1:L:734:SER:OG	1:L:860:GLY:HA3	1.91	0.71
1:A:597:ASN:HD22	1:A:599:ARG:H	1.35	0.71
1:P:788:PRO:HB3	1:P:807:VAL:HG23	1.71	0.71
1:K:246:MET:HG2	1:K:274:PHE:CE2	2.26	0.71
1:C:66:PRO:O	1:C:69:VAL:HG23	1.89	0.71
1:P:878:HIS:CD2	1:P:1010:SER:HB3	2.25	0.71
1:P:970:THR:HG21	1:P:976:LEU:CD2	2.21	0.71
1:J:691:ALA:HB1	1:J:725:ASN:O	1.89	0.71
1:J:599:ARG:HD2	1:J:600:GLN:OE1	1.91	0.71
1:C:102:ASN:ND2	1:C:201:ASP:HB2	2.05	0.71
1:K:142:ILE:HG12	1:K:170:GLU:HG2	1.72	0.71
1:H:7:LEU:CD1	1:H:74:LEU:HD11	2.21	0.71
1:L:395:HIS:CG	1:L:396:PRO:HD2	2.25	0.71
1:K:291:LEU:HD12	1:K:291:LEU:N	2.06	0.71
1:L:595:THR:CG2	1:L:596:PRO:HA	2.21	0.71
1:J:86:VAL:HG13	1:J:87:PRO:HA	1.71	0.71
1:K:43:ARG:O	1:K:310:ARG:HD3	1.90	0.71
1:P:34:ALA:O	1:P:215:LEU:HD11	1.91	0.71
1:E:99:ILE:HD12	1:E:99:ILE:N	2.06	0.71
1:I:68:ALA:O	1:I:70:PRO:HD3	1.89	0.71
1:O:651:LEU:HD13	1:O:669:PRO:HA	1.71	0.71
1:O:890:GLN:HG3	1:O:891:VAL:N	2.06	0.71
1:D:92:MET:HE3	1:D:362:LEU:O	1.91	0.71
1:I:654:TRP:CE2	1:I:666:GLY:HA3	2.26	0.71
1:N:857:ARG:HH11	1:N:857:ARG:HG2	1.55	0.71
1:M:734:SER:CB	1:M:860:GLY:HA3	2.21	0.71
1:M:324:GLU:HG2	1:M:325:ALA:H	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:360:HIS:ND1	1:P:362:LEU:HB2	2.05	0.71
1:C:949:HIS:CD2	1:C:1020:TRP:HE1	2.04	0.71
1:K:949:HIS:HD2	1:K:1020:TRP:NE1	1.88	0.71
1:G:656:VAL:HG21	1:G:685:LEU:HD22	1.73	0.71
1:P:18:ASN:ND2	1:P:21:VAL:HG23	2.05	0.71
1:F:542:MET:HE3	1:F:601:PHE:HA	1.72	0.71
1:F:417:THR:OG1	1:F:462:SER:HB3	1.90	0.71
1:A:652:LEU:HD22	1:A:680:ILE:CD1	2.21	0.71
1:B:822:LEU:HD12	1:B:823:LEU:N	2.06	0.71
1:B:824:GLN:O	1:B:838:THR:HA	1.91	0.71
1:J:622:HIS:O	1:J:625:GLN:HG2	1.90	0.71
1:G:130:ASP:O	1:G:133:TRP:HB2	1.91	0.71
1:O:668:VAL:HG11	1:O:680:ILE:CG2	2.21	0.71
1:E:164:ASP:HA	1:E:439:ARG:HH12	1.55	0.71
1:M:487:GLU:HG2	1:M:491:ALA:CB	2.20	0.71
1:M:440:VAL:HG11	1:M:475:ILE:HD11	1.73	0.71
1:O:100:TYR:HE1	1:O:598:ASP:HB2	1.55	0.71
1:F:595:THR:CG2	1:F:596:PRO:HA	2.21	0.71
1:N:14:ARG:NH1	1:N:14:ARG:HG2	2.05	0.71
1:C:375:ASP:O	1:C:379:MET:HG3	1.91	0.71
1:M:902:PRO:HD3	1:M:918:TRP:CZ3	2.26	0.71
1:J:499:ILE:HB	1:J:533:LEU:HD22	1.73	0.71
1:C:467:ASN:O	1:C:471:LEU:HD12	1.91	0.71
1:G:573:GLN:HB2	1:G:602:CYS:O	1.91	0.71
1:M:173:LEU:HB3	1:M:177:LEU:CD2	2.21	0.71
1:B:128:ASN:ND2	1:B:180:GLY:HA2	2.04	0.71
1:M:397:LEU:HD12	1:M:397:LEU:O	1.90	0.71
1:O:141:ILE:HG12	1:O:143:PHE:CE1	2.25	0.71
1:H:492:ASP:HB3	1:H:499:ILE:HG23	1.73	0.71
1:P:100:TYR:HB2	1:P:203:TRP:CZ3	2.25	0.70
1:E:758:PHE:O	1:E:759:ASN:C	2.24	0.70
1:H:653:HIS:NE2	1:H:667:GLU:OE2	2.24	0.70
1:E:592:PHE:HB2	1:E:594:ASP:OD1	1.90	0.70
1:P:253:TYR:HA	1:P:255:ARG:HH12	1.56	0.70
1:L:949:HIS:HD2	1:L:1020:TRP:NE1	1.89	0.70
1:N:822:LEU:HD12	1:N:823:LEU:H	1.56	0.70
1:J:196:TYR:O	1:J:417:THR:HG22	1.91	0.70
1:P:896:ASN:O	1:P:944:LEU:HD12	1.91	0.70
1:J:78:LEU:N	1:J:78:LEU:HD23	2.05	0.70
1:H:902:PRO:HD3	1:H:918:TRP:CH2	2.26	0.70
1:J:801:ILE:O	1:J:803:PRO:HD3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:653:HIS:CD2	1:B:667:GLU:HG2	2.24	0.70
1:G:316:HIS:HA	1:G:323:ILE:CD1	2.21	0.70
1:H:315:LEU:O	1:H:323:ILE:HB	1.90	0.70
1:K:662:PRO:C	1:K:663:LEU:HD23	2.11	0.70
1:C:597:ASN:HD22	1:C:599:ARG:H	1.37	0.70
1:B:441:THR:HG22	1:B:474:TRP:CZ2	2.26	0.70
1:D:579:ASP:OD2	1:D:583:ASN:HB2	1.89	0.70
1:D:360:HIS:ND1	1:D:361:PRO:HD2	2.04	0.70
1:K:353:GLY:O	1:K:566:PHE:HA	1.90	0.70
1:D:114:VAL:HG13	1:D:115:PRO:HD2	1.71	0.70
1:J:73:TRP:CE2	1:J:122:CYS:HB3	2.26	0.70
1:N:194:GLY:O	1:N:198:GLU:HG3	1.91	0.70
1:F:786:ARG:HH11	1:F:990:HIS:CE1	2.09	0.70
1:C:3:ILE:O	1:C:3:ILE:HG13	1.90	0.70
1:A:27:LEU:HD12	1:A:140:ARG:NH1	2.06	0.70
1:P:778:THR:CG2	1:P:779:PRO:HD2	2.21	0.70
1:P:260:LEU:O	1:P:267:VAL:HG23	1.90	0.70
1:P:369:GLU:O	1:P:373:VAL:HG23	1.91	0.70
1:M:544:ASN:HB2	1:M:929:TYR:CE2	2.25	0.70
1:N:392:TYR:CB	1:N:414:ASN:HB2	2.21	0.70
1:K:125:LEU:HD12	1:K:126:THR:N	2.06	0.70
1:N:266:GLN:NE2	1:N:269:SER:HB2	2.06	0.70
1:H:258:VAL:O	1:H:269:SER:HA	1.92	0.70
1:M:650:GLU:HB3	1:M:670:LEU:HD12	1.73	0.70
1:M:906:TYR:HB3	1:M:907:PRO:HD2	1.71	0.70
1:L:254:LEU:O	1:L:255:ARG:HD3	1.91	0.70
1:L:14:ARG:NH1	1:L:16:TRP:HZ2	1.88	0.70
1:K:746:ASP:HA	1:K:760:ARG:CG	2.19	0.70
1:A:894:ARG:HH12	1:A:920:LEU:HA	1.57	0.70
1:H:949:HIS:HD2	1:H:1020:TRP:NE1	1.87	0.70
1:F:360:HIS:CE1	1:F:362:LEU:HB2	2.23	0.70
1:L:949:HIS:CD2	1:L:1020:TRP:HE1	2.08	0.70
1:P:37:ARG:NH2	1:P:218:PRO:HD3	2.07	0.70
1:O:653:HIS:HD2	1:O:667:GLU:HG2	1.54	0.70
1:L:638:VAL:O	1:L:677:LYS:HA	1.91	0.70
1:A:610:ASP:OD1	1:A:612:THR:HG23	1.92	0.70
1:L:759:ASN:OD1	1:L:761:GLN:N	2.25	0.70
1:A:833:ALA:HB1	1:A:858:ILE:O	1.91	0.70
1:A:291:LEU:HD12	1:A:291:LEU:N	2.06	0.70
1:A:1018:LEU:HD22	1:A:1019:VAL:N	2.06	0.70
1:M:69:VAL:HG13	1:M:70:PRO:HD2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:23:GLN:CB	1:E:26:ARG:HH21	1.99	0.70
1:P:653:HIS:CD2	1:P:667:GLU:HG3	2.26	0.70
1:D:14:ARG:HG2	1:D:14:ARG:NH1	2.03	0.70
1:L:36:TRP:CD2	1:L:42:ALA:HA	2.25	0.70
1:D:920:LEU:HB3	1:D:921:PRO:HD2	1.73	0.70
1:L:322:LEU:HD23	1:L:323:ILE:N	2.06	0.70
1:E:570:TRP:O	1:E:607:VAL:HG22	1.91	0.70
1:N:189:LEU:HD23	1:N:189:LEU:N	2.06	0.70
1:H:433:LEU:HD12	1:H:433:LEU:O	1.92	0.70
1:G:746:ASP:O	1:G:760:ARG:HD2	1.92	0.70
1:N:416:GLU:HG3	1:N:460:ASN:O	1.91	0.70
1:L:881:ARG:HD3	1:L:987:ASP:OD2	1.91	0.70
1:P:625:GLN:NE2	1:P:716:ALA:HB1	2.06	0.70
1:O:166:ARG:HB2	1:O:414:ASN:HD22	1.57	0.70
1:E:599:ARG:HD2	1:E:600:GLN:OE1	1.92	0.70
1:E:66:PRO:HD2	1:E:67:GLU:CG	2.21	0.70
1:N:599:ARG:HD2	1:N:600:GLN:OE1	1.90	0.70
1:B:850:PHE:HD1	1:B:872:VAL:HG13	1.56	0.70
1:H:316:HIS:HA	1:H:323:ILE:CD1	2.21	0.70
1:P:423:MET:CE	1:P:461:GLU:HB3	2.20	0.70
1:P:822:LEU:CD1	1:P:824:GLN:H	2.05	0.70
1:H:949:HIS:CD2	1:H:1020:TRP:HE1	2.03	0.70
1:K:937:LEU:HG	1:K:938:ARG:N	2.07	0.70
1:L:906:TYR:O	1:L:910:LEU:HD23	1.91	0.70
1:P:128:ASN:HA	1:P:180:GLY:O	1.91	0.70
1:C:685:LEU:HD22	1:C:686:PRO:HD2	1.74	0.70
1:J:942:ARG:HA	1:J:953:GLY:O	1.92	0.70
1:N:438:GLU:O	1:N:442:ARG:HG3	1.92	0.70
1:O:474:TRP:CZ2	1:O:478:VAL:HG21	2.27	0.70
1:G:386:ALA:HB2	1:G:408:TYR:HB2	1.74	0.70
1:A:166:ARG:HB2	1:A:414:ASN:ND2	2.05	0.70
1:P:102:ASN:HD22	1:P:201:ASP:HB2	1.55	0.70
1:M:128:ASN:HD21	1:M:180:GLY:HA2	1.53	0.70
1:O:663:LEU:CD1	1:O:688:PRO:HG3	2.20	0.70
1:N:355:ASN:HD22	1:N:355:ASN:N	1.90	0.70
1:I:102:ASN:HD22	1:I:201:ASP:HB2	1.54	0.70
1:D:197:LEU:CD1	1:D:439:ARG:HE	2.05	0.70
1:K:14:ARG:HG2	1:K:14:ARG:NH1	2.03	0.70
1:M:971:SER:HG	1:M:972:HIS:HD1	1.39	0.70
1:I:587:ALA:HB1	1:I:591:ASP:CB	2.21	0.70
1:P:444:VAL:O	1:P:448:ARG:HG2	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:583:ASN:OD1	1:F:584:PRO:HD2	1.92	0.70
1:L:870:VAL:HG12	1:L:871:GLU:H	1.56	0.70
1:B:685:LEU:HB3	1:B:686:PRO:HD2	1.74	0.70
1:H:651:LEU:HD13	1:H:669:PRO:HA	1.74	0.70
1:O:100:TYR:O	1:O:597:ASN:HA	1.90	0.70
1:B:777:LEU:HD11	1:B:889:ALA:HA	1.72	0.70
1:N:23:GLN:O	1:N:24:LEU:HD13	1.92	0.70
1:K:651:LEU:HD12	1:K:652:LEU:H	1.55	0.70
1:H:805:ALA:O	1:H:809:ARG:HG3	1.92	0.70
1:H:546:LEU:HD22	1:H:616:ALA:HB1	1.72	0.70
1:N:944:LEU:HD12	1:N:945:ASN:H	1.57	0.70
1:P:544:ASN:HB3	1:P:789:LEU:HD22	1.72	0.70
1:P:932:PRO:HG2	1:P:970:THR:O	1.92	0.70
1:H:66:PRO:HG2	1:H:67:GLU:OE2	1.91	0.70
1:L:948:PRO:HG2	1:L:949:HIS:ND1	2.07	0.70
1:L:894:ARG:NH2	1:L:921:PRO:HD3	2.07	0.70
1:A:134:LEU:N	1:A:134:LEU:HD23	2.05	0.70
1:N:654:TRP:CE2	1:N:666:GLY:HA3	2.27	0.70
1:F:587:ALA:HB1	1:F:591:ASP:CB	2.22	0.70
1:M:400:THR:HG23	1:M:404:ARG:HD2	1.72	0.70
1:C:436:MET:CE	1:C:467:ASN:HD22	2.04	0.69
1:M:152:LEU:HD12	1:M:153:TRP:N	2.05	0.69
1:P:102:ASN:HA	1:P:201:ASP:OD1	1.92	0.69
1:L:986:ILE:HG21	1:L:1018:LEU:HD11	1.74	0.69
1:G:100:TYR:CE1	1:G:602:CYS:HB3	2.26	0.69
1:M:698:VAL:CG2	1:M:718:GLN:HB3	2.21	0.69
1:M:718:GLN:HG2	1:M:720:TRP:CZ2	2.27	0.69
1:L:970:THR:HG21	1:L:976:LEU:HD23	1.73	0.69
1:A:433:LEU:HB3	1:A:434:PRO:HD3	1.73	0.69
1:F:789:LEU:O	1:F:793:ILE:HG13	1.92	0.69
1:B:595:THR:HG23	1:B:596:PRO:HA	1.72	0.69
1:M:5:ASP:OD2	1:M:157:ARG:HA	1.92	0.69
1:M:487:GLU:CG	1:M:491:ALA:HB2	2.20	0.69
1:M:614:HIS:HB3	1:M:615:PRO:HD2	1.72	0.69
1:M:173:LEU:O	1:M:177:LEU:HG	1.91	0.69
1:J:573:GLN:HB2	1:J:602:CYS:O	1.92	0.69
1:N:636:ILE:HB	1:N:680:ILE:HB	1.74	0.69
1:A:11:LEU:N	1:A:11:LEU:HD23	2.06	0.69
1:F:189:LEU:N	1:F:189:LEU:HD23	2.07	0.69
1:K:308:LEU:HD13	1:K:329:ASP:HB3	1.73	0.69
1:H:559:TYR:HB2	1:H:562:LEU:HD12	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:18:ASN:ND2	1:D:21:VAL:HG23	2.08	0.69
1:E:158:TRP:CZ2	1:E:160:GLY:HA2	2.25	0.69
1:D:746:ASP:CA	1:D:760:ARG:HG3	2.21	0.69
1:K:322:LEU:HD23	1:K:323:ILE:N	2.07	0.69
1:M:572:ASP:HB3	1:M:603:MET:CB	2.22	0.69
1:L:102:ASN:ND2	1:L:201:ASP:HB2	2.07	0.69
1:G:635:THR:HG23	1:G:681:GLU:HG3	1.73	0.69
1:P:79:PRO:HG2	1:P:80:GLU:HG3	1.73	0.69
1:C:377:LEU:HD22	1:C:708:TRP:HA	1.73	0.69
1:G:856:TYR:HD2	1:G:864:MET:HE2	1.57	0.69
1:D:134:LEU:N	1:D:134:LEU:HD23	2.07	0.69
1:B:210:ARG:HH12	1:B:394:ASN:C	1.96	0.69
1:P:777:LEU:HD12	1:P:887:GLN:HG2	1.73	0.69
1:P:324:GLU:HG2	1:P:325:ALA:H	1.58	0.69
1:K:65:ALA:HB1	1:K:67:GLU:HG3	1.75	0.69
1:H:796:SER:OG	1:H:801:ILE:HA	1.92	0.69
1:P:400:THR:O	1:P:403:ASP:HB2	1.92	0.69
1:B:367:MET:HB3	1:B:372:MET:HE3	1.73	0.69
1:B:232:ASN:HD21	1:B:237:ARG:N	1.89	0.69
1:E:1004:SER:N	3:E:1273:HOH:O	2.14	0.69
1:N:529:GLU:OE1	1:N:531:ARG:HB2	1.92	0.69
1:M:654:TRP:NE1	1:M:666:GLY:HA3	2.07	0.69
1:L:531:ARG:HB3	1:L:532:PRO:HD2	1.73	0.69
1:D:572:ASP:CB	1:D:603:MET:HG2	2.15	0.69
1:P:141:ILE:HG12	1:P:214:LEU:CD2	2.23	0.69
1:P:63:PHE:HB3	1:P:64:PRO:HD2	1.74	0.69
1:E:63:PHE:HB3	1:E:64:PRO:HD2	1.74	0.69
1:I:66:PRO:HB3	1:I:187:MET:HE3	1.74	0.69
1:E:948:PRO:HG2	1:E:949:HIS:ND1	2.07	0.69
1:E:949:HIS:HD2	1:E:1020:TRP:NE1	1.89	0.69
1:I:43:ARG:O	1:I:310:ARG:HD3	1.93	0.69
1:G:686:PRO:C	1:G:688:PRO:HD3	2.12	0.69
1:K:749:ILE:HD11	1:K:834:VAL:HG11	1.74	0.69
1:I:419:GLY:HA2	1:L:282:ARG:HH11	1.58	0.69
1:O:579:ASP:CG	1:O:583:ASN:HB2	2.13	0.69
1:P:577:LYS:O	1:P:584:PRO:HA	1.92	0.69
1:O:147:ASN:HB3	1:O:206:SER:HA	1.75	0.69
1:D:200:GLN:HG3	1:D:416:GLU:HB3	1.74	0.69
1:K:166:ARG:CG	1:K:392:TYR:HB2	2.22	0.69
1:B:279:ILE:HD11	1:C:424:ASN:HB2	1.75	0.69
1:N:902:PRO:HD3	1:N:918:TRP:CH2	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:625:GLN:CD	1:K:716:ALA:HB1	2.13	0.69
1:G:693:GLN:HG2	1:G:721:ARG:HD2	1.75	0.69
1:E:427:THR:HG21	1:E:468:HIS:CE1	2.27	0.69
1:P:14:ARG:NH1	1:P:16:TRP:HZ2	1.91	0.69
1:K:433:LEU:HD12	1:K:433:LEU:O	1.91	0.69
1:P:949:HIS:CD2	1:P:1020:TRP:HE1	2.10	0.69
1:M:902:PRO:HD3	1:M:918:TRP:CH2	2.27	0.69
1:G:129:VAL:HG23	1:G:182:ASN:ND2	2.07	0.69
1:K:210:ARG:HH12	1:K:394:ASN:C	1.96	0.69
1:B:438:GLU:O	1:B:442:ARG:HG3	1.92	0.69
1:B:833:ALA:HB1	1:B:858:ILE:O	1.92	0.69
1:N:53:SER:O	1:N:54:LEU:HD23	1.93	0.69
1:O:293:LEU:HD23	1:O:293:LEU:N	2.08	0.69
1:M:382:ASN:HD22	1:M:382:ASN:N	1.90	0.69
1:M:65:ALA:HB1	1:M:67:GLU:HG3	1.74	0.69
1:P:542:MET:HG3	1:P:603:MET:O	1.92	0.69
1:K:66:PRO:CG	1:K:67:GLU:HG2	2.22	0.69
1:P:166:ARG:HG2	1:P:392:TYR:CB	2.22	0.69
1:M:822:LEU:HD12	1:M:823:LEU:N	2.08	0.69
1:H:777:LEU:CD1	1:H:889:ALA:HA	2.22	0.69
1:G:227:VAL:CG1	1:G:240:LEU:HD11	2.22	0.69
1:H:129:VAL:HG21	1:H:177:LEU:CD1	2.23	0.69
1:L:316:HIS:ND1	1:L:316:HIS:N	2.40	0.69
1:K:738:PRO:HA	1:K:751:LEU:HD12	1.75	0.69
1:K:102:ASN:HB2	1:K:201:ASP:OD1	1.92	0.69
1:G:505:ARG:HG2	1:G:996:ASP:OD2	1.93	0.69
1:F:587:ALA:HB1	1:F:591:ASP:HB2	1.75	0.69
1:C:932:PRO:HG2	1:C:970:THR:O	1.92	0.69
1:H:261:TRP:CH2	1:H:266:GLN:HB2	2.27	0.69
1:C:254:LEU:O	1:C:255:ARG:HD3	1.93	0.69
1:E:438:GLU:OE1	1:E:442:ARG:HD2	1.93	0.69
1:P:222:ILE:CD1	1:P:313:VAL:HG12	2.22	0.69
1:H:668:VAL:CG1	1:H:669:PRO:HD2	2.22	0.69
1:F:36:TRP:CD2	1:F:42:ALA:HB2	2.27	0.69
1:L:141:ILE:HD13	1:L:143:PHE:HE1	1.55	0.69
1:E:78:LEU:HD23	1:E:78:LEU:N	2.08	0.69
1:E:10:VAL:O	1:E:13:ARG:HG3	1.93	0.69
1:C:100:TYR:CE2	1:C:602:CYS:HB3	2.28	0.69
1:M:801:ILE:O	1:M:803:PRO:HD3	1.93	0.69
1:B:373:VAL:O	1:B:377:LEU:HD12	1.92	0.69
1:M:210:ARG:HH11	1:M:395:HIS:HB2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:307:ASN:O	1:P:308:LEU:HD23	1.93	0.69
1:P:410:VAL:HG22	1:P:455:ILE:HB	1.74	0.69
1:P:765:LEU:HD12	1:P:766:SER:N	2.08	0.69
1:G:627:PHE:CZ	1:G:650:GLU:HG2	2.27	0.69
1:P:368:ASP:OD1	1:P:370:GLN:HB2	1.93	0.69
1:I:942:ARG:HH21	1:I:954:ASP:HB2	1.58	0.69
1:P:770:ILE:HD11	1:P:1022:GLN:HG2	1.74	0.69
1:C:189:LEU:HD23	1:C:189:LEU:N	2.07	0.69
1:H:672:VAL:HG13	1:H:678:GLN:HB2	1.73	0.69
1:M:359:HIS:ND1	1:M:573:GLN:HG2	2.07	0.69
1:P:994:GLY:CA	1:P:1003:VAL:HG22	2.23	0.69
1:O:166:ARG:CG	1:O:392:TYR:HB2	2.23	0.69
1:K:7:LEU:HD11	1:K:74:LEU:HD21	1.73	0.69
1:F:857:ARG:NH1	1:F:857:ARG:HG2	2.08	0.69
1:F:14:ARG:NH1	1:F:16:TRP:HZ2	1.90	0.69
1:B:822:LEU:HD12	1:B:823:LEU:H	1.57	0.69
1:E:258:VAL:HG12	1:E:293:LEU:HD11	1.75	0.69
1:B:353:GLY:O	1:B:566:PHE:HA	1.93	0.69
1:E:34:ALA:HB3	1:E:36:TRP:CZ3	2.28	0.69
1:O:929:TYR:O	1:O:930:VAL:C	2.32	0.69
1:M:572:ASP:HB2	3:M:1276:HOH:O	1.92	0.69
1:F:65:ALA:HB1	1:F:66:PRO:HD2	1.75	0.69
1:O:965:GLN:O	1:O:969:GLU:HG3	1.92	0.69
1:I:99:ILE:HG23	1:I:594:ASP:HB2	1.75	0.69
1:P:473:ARG:O	1:P:476:LYS:HB2	1.93	0.69
1:B:260:LEU:O	1:B:267:VAL:HG23	1.93	0.69
1:B:102:ASN:ND2	1:B:201:ASP:HB2	2.08	0.69
1:B:540:HIS:CE1	1:B:999:TRP:HZ3	2.12	0.69
1:G:533:LEU:HD12	1:G:534:ILE:N	2.08	0.69
1:A:53:SER:OG	1:A:55:ASN:HB2	1.92	0.69
1:F:400:THR:CG2	1:F:404:ARG:HD2	2.23	0.69
1:P:1013:ARG:HG3	1:P:1013:ARG:HH11	1.57	0.69
1:N:499:ILE:HG22	1:N:501:PRO:HD3	1.75	0.69
1:P:362:LEU:HD21	1:P:576:ILE:HD12	1.74	0.68
1:M:741:THR:HG22	1:M:742:THR:N	2.07	0.68
1:F:3:ILE:O	1:F:9:VAL:HG21	1.93	0.68
1:N:29:ALA:HB2	1:N:442:ARG:HB3	1.75	0.68
1:E:194:GLY:HA3	3:E:1239:HOH:O	1.93	0.68
1:L:878:HIS:CD2	1:L:1010:SER:HB3	2.28	0.68
1:F:78:LEU:HB3	1:F:80:GLU:HG3	1.74	0.68
1:J:742:THR:HG23	1:J:747:PHE:CD1	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:595:THR:HG23	1:O:596:PRO:HA	1.75	0.68
1:O:730:LEU:CD1	1:O:731:PRO:HD2	2.18	0.68
1:P:103:VAL:HG22	1:P:418:HIS:CG	2.27	0.68
1:L:102:ASN:HD22	1:L:201:ASP:CB	2.07	0.68
1:C:227:VAL:CG1	1:C:240:LEU:HD11	2.23	0.68
1:H:129:VAL:HG23	1:H:182:ASN:ND2	2.09	0.68
1:H:73:TRP:CZ2	1:H:185:ALA:HB1	2.29	0.68
1:D:73:TRP:CE2	1:D:122:CYS:HB3	2.27	0.68
1:E:701:VAL:O	1:E:703:PRO:HD3	1.93	0.68
1:E:571:VAL:CG1	1:E:607:VAL:HG23	2.22	0.68
1:G:578:TYR:HA	1:G:583:ASN:O	1.92	0.68
1:M:518:TRP:O	1:M:519:SER:C	2.28	0.68
1:E:660:GLY:O	1:E:662:PRO:HD3	1.93	0.68
1:B:390:SER:HB2	1:B:391:HIS:CE1	2.28	0.68
1:G:651:LEU:HD13	1:G:669:PRO:HA	1.75	0.68
1:N:578:TYR:HA	1:N:583:ASN:O	1.93	0.68
1:B:291:LEU:N	1:B:291:LEU:HD12	2.08	0.68
1:P:736:ALA:O	1:P:737:ILE:HG22	1.94	0.68
1:N:138:GLN:HG3	1:N:172:ASP:OD2	1.94	0.68
1:M:444:VAL:HG21	1:M:474:TRP:HZ3	1.57	0.68
1:O:360:HIS:HE1	1:O:362:LEU:HB2	1.57	0.68
1:P:7:LEU:HD13	1:P:74:LEU:CD1	2.22	0.68
1:G:134:LEU:N	1:G:134:LEU:HD23	2.08	0.68
1:K:622:HIS:O	1:K:625:GLN:HG2	1.93	0.68
1:G:128:ASN:ND2	1:G:180:GLY:HA2	2.08	0.68
1:B:663:LEU:N	1:B:663:LEU:HD23	2.09	0.68
1:J:778:THR:HG23	1:J:779:PRO:HD2	1.74	0.68
1:A:653:HIS:CD2	1:A:667:GLU:HB3	2.28	0.68
1:B:696:LEU:HD12	1:B:697:THR:H	1.58	0.68
1:P:1000:SER:HB2	1:P:1001:PRO:HD2	1.75	0.68
1:N:316:HIS:HA	1:N:323:ILE:CD1	2.24	0.68
1:E:438:GLU:O	1:E:442:ARG:HG3	1.93	0.68
1:P:902:PRO:HD3	1:P:918:TRP:CZ3	2.26	0.68
1:N:237:ARG:HG3	1:N:237:ARG:HH11	1.59	0.68
1:F:36:TRP:CD1	1:F:41:GLU:HB3	2.27	0.68
1:P:822:LEU:HD12	1:P:824:GLN:H	1.57	0.68
1:D:904:GLU:HG3	1:D:906:TYR:HE1	1.58	0.68
1:K:635:THR:HG23	1:K:680:ILE:O	1.93	0.68
1:N:316:HIS:HA	1:N:323:ILE:HD13	1.74	0.68
1:K:906:TYR:O	1:K:910:LEU:HD23	1.93	0.68
1:H:786:ARG:HG2	1:H:880:ALA:HB1	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:881:ARG:HD3	1:H:987:ASP:OD2	1.93	0.68
1:H:456:TRP:NE1	1:H:482:ARG:HD2	2.08	0.68
1:I:904:GLU:HG2	1:I:909:ARG:HH22	1.58	0.68
1:M:948:PRO:CD	1:M:949:HIS:H	2.05	0.68
1:E:353:GLY:O	1:E:566:PHE:HA	1.93	0.68
1:F:131:GLU:O	1:F:132:SER:C	2.29	0.68
1:F:152:LEU:HD12	1:F:153:TRP:N	2.08	0.68
1:K:749:ILE:CD1	1:K:834:VAL:HG11	2.23	0.68
1:I:90:TRP:HE3	1:I:123:TYR:HH	1.39	0.68
1:N:66:PRO:HB3	1:N:187:MET:CE	2.24	0.68
1:O:146:VAL:O	1:O:165:SER:HB3	1.93	0.68
1:C:766:SER:HA	1:C:779:PRO:HB3	1.76	0.68
1:I:961:ARG:HB3	1:I:978:ALA:HB1	1.75	0.68
1:I:786:ARG:HH11	1:I:990:HIS:HE1	1.40	0.68
1:K:592:PHE:HB2	1:K:594:ASP:OD1	1.94	0.68
1:N:568:TRP:HE1	1:N:604:ASN:HD22	1.41	0.68
1:M:965:GLN:O	1:M:969:GLU:HG3	1.94	0.68
1:J:7:LEU:O	1:J:11:LEU:HG	1.94	0.68
1:E:427:THR:HA	1:E:436:MET:HE1	1.75	0.68
1:P:315:LEU:HG	1:P:323:ILE:HB	1.76	0.68
1:P:357:HIS:HE1	1:P:568:TRP:CH2	2.11	0.68
1:K:747:PHE:CZ	1:K:760:ARG:HD3	2.27	0.68
1:D:774:LYS:C	1:D:775:GLN:HE21	1.97	0.68
1:M:796:SER:OG	1:M:801:ILE:HA	1.93	0.68
1:L:372:MET:HG2	1:L:401:LEU:CD1	2.22	0.68
1:D:377:LEU:CD2	1:D:708:TRP:HA	2.24	0.68
1:B:975:LEU:N	1:B:975:LEU:HD23	2.08	0.68
1:J:202:MET:HE3	1:J:357:HIS:CD2	2.29	0.68
1:J:469:ASP:HB3	1:K:473:ARG:HD2	1.76	0.68
1:H:542:MET:HE3	1:H:601:PHE:HA	1.76	0.68
1:G:3:ILE:O	1:G:3:ILE:HG13	1.91	0.68
1:C:617:LEU:O	1:C:620:ALA:HB3	1.94	0.68
1:N:44:THR:O	1:N:46:ARG:HG2	1.94	0.68
1:H:645:ARG:NH1	1:H:646:HIS:O	2.27	0.68
1:A:960:SER:HA	3:A:1276:HOH:O	1.92	0.68
1:M:579:ASP:OD1	1:M:583:ASN:ND2	2.27	0.68
1:L:579:ASP:OD1	1:L:583:ASN:ND2	2.27	0.68
1:M:237:ARG:NH1	1:M:237:ARG:HG3	2.07	0.68
1:F:338:GLU:O	3:F:1262:HOH:O	2.11	0.68
1:I:287:ASP:OD2	1:L:425:ARG:NH2	2.27	0.68
1:P:427:THR:HG21	1:P:468:HIS:CE1	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:377:LEU:O	1:C:381:GLN:HG3	1.94	0.68
1:B:372:MET:HG2	1:B:398:TRP:HE3	1.59	0.68
1:H:625:GLN:HB2	1:H:716:ALA:HB2	1.75	0.68
1:N:930:VAL:HA	1:N:973:ARG:HD3	1.74	0.68
1:A:579:ASP:OD2	1:A:583:ASN:HB2	1.93	0.68
1:L:27:LEU:HD12	1:L:140:ARG:NH1	2.07	0.68
1:E:27:LEU:HD12	1:E:140:ARG:HH11	1.56	0.68
1:B:746:ASP:O	1:B:760:ARG:HD2	1.93	0.68
1:M:598:ASP:O	1:M:601:PHE:HB2	1.94	0.68
1:P:570:TRP:HD1	1:P:571:VAL:HG23	1.57	0.68
1:P:668:VAL:HG13	1:P:669:PRO:CD	2.23	0.68
1:M:441:THR:HG22	1:M:474:TRP:CZ2	2.29	0.68
1:H:317:THR:HG23	1:H:323:ILE:HD11	1.74	0.68
1:H:894:ARG:HH12	1:H:919:ASP:C	1.96	0.68
1:H:91:GLN:HG3	1:H:96:ASP:OD1	1.94	0.68
1:E:251:ARG:O	1:E:253:TYR:N	2.27	0.68
1:N:370:GLN:O	1:N:371:THR:C	2.32	0.68
1:A:217:LYS:HG2	1:A:324:GLU:OE2	1.94	0.68
1:J:742:THR:HG22	1:J:743:SER:H	1.57	0.68
1:H:925:MET:HB3	3:H:1275:HOH:O	1.94	0.68
1:C:651:LEU:HD13	1:C:669:PRO:HA	1.76	0.68
1:D:4:THR:HA	1:D:9:VAL:HG11	1.76	0.68
1:I:746:ASP:HA	1:I:760:ARG:CG	2.17	0.68
1:P:606:LEU:HD13	1:P:617:LEU:HD12	1.76	0.68
1:P:222:ILE:HD13	1:P:313:VAL:HG12	1.75	0.68
1:P:204:ARG:HD3	1:P:204:ARG:N	2.08	0.68
1:G:100:TYR:CZ	1:G:602:CYS:HB3	2.29	0.68
1:L:4:THR:HA	1:L:9:VAL:HG11	1.76	0.68
1:N:279:ILE:HD11	1:O:422:PRO:CB	2.23	0.68
1:M:358:GLU:HB3	1:M:367:MET:HG2	1.76	0.68
1:I:43:ARG:NH2	1:I:264:GLU:HG2	2.08	0.68
1:F:836:ILE:N	1:F:836:ILE:HD13	2.07	0.68
1:O:362:LEU:HG	1:O:576:ILE:HD12	1.76	0.68
1:K:651:LEU:CD1	1:K:669:PRO:HA	2.24	0.68
1:C:651:LEU:CD1	1:C:669:PRO:HA	2.24	0.68
1:B:246:MET:HE3	1:B:247:CYS:C	2.14	0.68
1:E:300:LEU:N	1:E:300:LEU:HD23	2.08	0.68
1:O:18:ASN:HB3	1:O:21:VAL:HG23	1.75	0.68
1:D:336:ARG:HH21	1:D:338:GLU:CD	1.97	0.68
1:G:1011:ALA:HB3	1:G:1014:TYR:CZ	2.29	0.68
1:P:131:GLU:O	1:P:134:LEU:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:678:GLN:C	1:O:679:LEU:HD23	2.14	0.68
1:L:413:ALA:HB2	1:L:443:MET:CE	2.24	0.68
1:P:571:VAL:HG11	1:P:611:ARG:NH1	2.09	0.68
1:H:634:GLN:N	1:H:634:GLN:HE21	1.92	0.68
1:P:416:GLU:OE2	1:P:418:HIS:HB2	1.94	0.68
1:K:292:ARG:NH1	1:K:292:ARG:HG3	2.09	0.68
1:H:147:ASN:HA	1:H:165:SER:HB3	1.75	0.68
1:O:949:HIS:HD2	1:O:1022:GLN:HE21	1.41	0.68
1:P:433:LEU:HD13	1:P:467:ASN:HB3	1.74	0.68
1:O:650:GLU:HB3	1:O:670:LEU:HB2	1.76	0.68
1:L:251:ARG:O	1:L:253:TYR:N	2.27	0.68
1:D:362:LEU:CD2	1:D:576:ILE:HD12	2.24	0.68
1:B:354:VAL:HG22	1:B:355:ASN:O	1.94	0.68
1:N:257:THR:HA	1:N:270:GLY:O	1.94	0.68
1:P:262:GLN:HE22	1:P:299:LYS:HD3	1.58	0.68
1:D:893:GLU:OE1	1:D:893:GLU:HA	1.94	0.68
1:N:300:LEU:O	1:N:307:ASN:HB2	1.94	0.68
1:I:460:ASN:ND2	1:I:461:GLU:HG3	2.09	0.68
1:P:881:ARG:HD3	1:P:987:ASP:OD1	1.94	0.67
1:P:542:MET:HE3	1:P:601:PHE:HA	1.76	0.67
1:M:354:VAL:HG22	1:M:355:ASN:O	1.94	0.67
1:M:607:VAL:HG12	1:M:613:PRO:HA	1.75	0.67
1:L:1020:TRP:HD1	1:L:1021:CYS:N	1.92	0.67
1:L:6:SER:O	1:L:7:LEU:C	2.31	0.67
1:I:282:ARG:NH1	1:L:419:GLY:HA2	2.09	0.67
1:F:836:ILE:HG22	1:F:837:THR:N	2.09	0.67
1:E:822:LEU:HD12	1:E:823:LEU:H	1.56	0.67
1:G:668:VAL:HG13	1:G:669:PRO:HD2	1.75	0.67
1:L:599:ARG:HD2	1:L:600:GLN:OE1	1.93	0.67
1:K:778:THR:HB	1:K:887:GLN:H	1.58	0.67
1:O:635:THR:HG23	1:O:681:GLU:HA	1.74	0.67
1:P:804:ASN:N	1:P:804:ASN:ND2	2.42	0.67
1:I:316:HIS:CA	1:I:323:ILE:HD13	2.15	0.67
1:E:189:LEU:HD23	1:E:189:LEU:N	2.09	0.67
1:M:114:VAL:CG2	1:M:191:TRP:HB3	2.24	0.67
1:H:57:GLU:HG2	1:H:83:THR:HG23	1.75	0.67
1:E:249:GLU:HB3	1:E:251:ARG:NH1	2.10	0.67
1:N:894:ARG:NH2	1:N:921:PRO:HD3	2.09	0.67
1:A:7:LEU:HD13	1:A:74:LEU:HD11	1.76	0.67
1:B:114:VAL:CG1	1:B:191:TRP:HB2	2.23	0.67
1:D:362:LEU:HD21	1:D:576:ILE:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:850:PHE:CD1	1:B:872:VAL:HG13	2.29	0.67
1:M:469:ASP:HB3	1:P:473:ARG:HD2	1.76	0.67
1:F:78:LEU:HB3	1:F:79:PRO:HD2	1.76	0.67
1:G:651:LEU:HD12	1:G:652:LEU:N	2.10	0.67
1:D:750:GLU:HG3	1:D:755:ARG:HG2	1.76	0.67
1:A:300:LEU:N	1:A:300:LEU:HD23	2.09	0.67
1:L:148:SER:OG	1:L:192:SER:HB3	1.93	0.67
1:K:486:TYR:CE1	1:K:488:GLY:HA3	2.28	0.67
1:G:275:GLY:HA2	1:G:285:TYR:O	1.93	0.67
1:A:281:GLU:OE1	1:A:281:GLU:N	2.27	0.67
1:B:652:LEU:HD12	1:B:699:ARG:O	1.95	0.67
1:A:3:ILE:HG13	1:A:3:ILE:O	1.94	0.67
1:G:251:ARG:O	1:G:253:TYR:N	2.27	0.67
1:P:27:LEU:N	1:P:27:LEU:HD23	2.10	0.67
1:M:324:GLU:HG2	1:M:325:ALA:N	2.08	0.67
1:P:570:TRP:CD1	1:P:571:VAL:HG23	2.29	0.67
1:P:246:MET:HG2	1:P:274:PHE:CZ	2.29	0.67
1:O:634:GLN:O	1:O:682:LEU:HD12	1.93	0.67
1:M:260:LEU:HD12	1:M:261:TRP:N	2.09	0.67
1:I:157:ARG:O	1:I:159:VAL:HG23	1.94	0.67
1:B:152:LEU:HD12	1:B:153:TRP:N	2.10	0.67
1:F:487:GLU:HB3	3:F:1220:HOH:O	1.94	0.67
1:G:66:PRO:HB3	1:G:187:MET:HE3	1.75	0.67
1:E:892:ALA:HB3	1:E:946:TYR:CE1	2.29	0.67
1:M:139:THR:OG1	1:M:216:HIS:ND1	2.27	0.67
1:M:7:LEU:HB2	1:M:71:GLU:OE2	1.94	0.67
1:P:383:ASN:ND2	1:P:625:GLN:HA	2.10	0.67
1:M:422:PRO:HD3	1:P:284:GLY:O	1.94	0.67
1:H:69:VAL:HG13	1:H:70:PRO:HD2	1.76	0.67
1:N:225:PHE:HA	1:N:243:GLU:O	1.94	0.67
1:F:827:ALA:HA	1:F:836:ILE:HD12	1.77	0.67
1:C:581:ASN:HA	1:J:581:ASN:OD1	1.94	0.67
1:F:570:TRP:O	1:F:607:VAL:HG22	1.95	0.67
1:E:906:TYR:O	1:E:910:LEU:HD23	1.94	0.67
1:H:822:LEU:HD12	1:H:823:LEU:N	2.09	0.67
1:A:960:SER:N	3:A:1253:HOH:O	2.28	0.67
1:E:474:TRP:CE2	1:E:478:VAL:HG21	2.29	0.67
1:M:816:TYR:HB2	3:M:1206:HOH:O	1.94	0.67
1:O:718:GLN:HG3	1:O:719:GLN:N	2.09	0.67
1:F:18:ASN:ND2	1:F:21:VAL:HG23	2.09	0.67
1:H:577:LYS:O	1:H:584:PRO:HA	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:202:MET:HE3	1:G:357:HIS:CD2	2.29	0.67
1:P:398:TRP:HA	1:P:398:TRP:HE3	1.58	0.67
1:B:651:LEU:CD1	1:B:669:PRO:HA	2.25	0.67
1:H:424:ASN:HD21	1:H:464:HIS:C	1.96	0.67
1:L:33:PHE:HB3	1:L:326:GLU:OE2	1.95	0.67
1:M:172:ASP:OD1	1:M:174:SER:HB2	1.93	0.67
1:P:240:LEU:HD12	1:P:241:GLU:H	1.60	0.67
1:A:440:VAL:CG1	1:A:475:ILE:HD11	2.25	0.67
1:D:246:MET:HE3	1:D:247:CYS:C	2.15	0.67
1:J:902:PRO:O	1:J:938:ARG:NH1	2.28	0.67
1:A:246:MET:HG2	1:A:274:PHE:CE1	2.29	0.67
1:M:224:ASP:OD1	1:M:225:PHE:N	2.27	0.67
1:P:789:LEU:HD12	1:P:792:ASP:OD2	1.95	0.67
1:E:99:ILE:HD11	1:E:190:ARG:NH1	2.07	0.67
1:E:959:ILE:O	3:E:1281:HOH:O	2.12	0.67
1:D:251:ARG:O	1:D:253:TYR:N	2.27	0.67
1:L:400:THR:HG22	1:L:404:ARG:CD	2.24	0.67
1:E:434:PRO:HB3	1:H:434:PRO:HB3	1.76	0.67
1:I:276:GLY:N	1:I:285:TYR:O	2.26	0.67
1:N:217:LYS:NZ	1:N:326:GLU:OE2	2.28	0.67
1:D:63:PHE:HB3	1:D:64:PRO:HD2	1.75	0.67
1:C:134:LEU:N	1:C:134:LEU:HD23	2.10	0.67
1:D:27:LEU:HD23	1:D:27:LEU:N	2.09	0.67
1:O:17:GLU:OE1	1:O:113:PHE:HA	1.94	0.67
1:A:949:HIS:HD2	1:A:1020:TRP:NE1	1.92	0.67
1:H:251:ARG:O	1:H:253:TYR:N	2.28	0.67
1:D:718:GLN:HG3	1:D:719:GLN:N	2.09	0.67
1:N:579:ASP:OD2	1:N:583:ASN:HB2	1.93	0.67
1:O:678:GLN:O	1:O:679:LEU:HD23	1.95	0.67
1:E:291:LEU:HD12	1:E:291:LEU:N	2.09	0.67
1:M:1003:VAL:HA	3:M:1262:HOH:O	1.94	0.67
1:A:430:PRO:HG2	1:D:445:GLN:HE22	1.58	0.67
1:K:5:ASP:OD2	1:K:157:ARG:HA	1.94	0.67
1:I:849:LEU:N	1:I:849:LEU:HD23	2.09	0.67
1:O:66:PRO:HB3	1:O:187:MET:CE	2.25	0.67
1:O:125:LEU:HG	1:O:126:THR:N	2.10	0.67
1:M:189:LEU:N	1:M:189:LEU:HD23	2.10	0.67
1:P:536:CYS:O	1:P:566:PHE:HB2	1.94	0.67
1:M:651:LEU:HD13	1:M:669:PRO:HA	1.75	0.67
1:L:102:ASN:ND2	1:L:201:ASP:OD2	2.28	0.67
1:K:740:LEU:HD12	1:K:741:THR:N	2.07	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:894:ARG:HH12	1:E:920:LEU:HA	1.59	0.67
1:N:822:LEU:HD11	1:N:824:GLN:O	1.94	0.67
1:O:789:LEU:O	1:O:793:ILE:HG13	1.95	0.67
1:E:369:GLU:O	1:E:373:VAL:HG23	1.94	0.67
1:J:70:PRO:HG2	1:J:78:LEU:HD11	1.76	0.67
1:P:1022:GLN:O	1:P:1023:LYS:HG3	1.95	0.67
1:E:300:LEU:O	1:E:307:ASN:HB2	1.94	0.67
1:N:786:ARG:HH11	1:N:990:HIS:HE1	1.43	0.67
1:O:906:TYR:HB3	1:O:907:PRO:HD2	1.76	0.67
1:D:701:VAL:HG22	1:D:714:ILE:HD13	1.76	0.67
1:M:849:LEU:N	1:M:849:LEU:HD23	2.10	0.67
1:B:78:LEU:HD23	1:B:78:LEU:N	2.08	0.67
1:L:705:ALA:HA	3:L:1255:HOH:O	1.94	0.67
1:H:14:ARG:HH11	1:H:14:ARG:HG2	1.59	0.67
1:E:894:ARG:HH12	1:E:920:LEU:CA	2.08	0.67
1:H:878:HIS:NE2	1:H:1010:SER:HB3	2.08	0.67
1:K:663:LEU:N	1:K:663:LEU:HD23	2.08	0.67
1:L:656:VAL:HG12	1:L:694:LEU:HD11	1.76	0.67
1:G:167:LEU:HB3	1:G:168:PRO:HD2	1.77	0.67
1:K:750:GLU:HG3	1:K:755:ARG:HG2	1.76	0.67
1:E:210:ARG:NH1	1:E:395:HIS:N	2.43	0.67
1:K:858:ILE:HA	1:K:863:GLN:O	1.94	0.67
1:N:383:ASN:HD22	1:N:625:GLN:HA	1.60	0.67
1:P:842:TRP:HB2	1:P:850:PHE:HD2	1.59	0.67
1:F:293:LEU:N	1:F:293:LEU:HD23	2.08	0.67
1:M:577:LYS:NZ	1:M:591:ASP:O	2.28	0.67
1:M:599:ARG:HH21	1:M:797:GLU:HG3	1.60	0.67
1:K:467:ASN:O	1:K:471:LEU:HD12	1.94	0.67
1:A:894:ARG:HH11	1:A:894:ARG:HB3	1.60	0.67
1:E:91:GLN:HG3	1:E:96:ASP:OD1	1.95	0.67
1:P:824:GLN:O	1:P:838:THR:HA	1.95	0.67
1:N:279:ILE:HD11	1:O:422:PRO:HB2	1.77	0.67
1:D:354:VAL:HG22	1:D:355:ASN:O	1.94	0.67
1:H:417:THR:HG23	1:H:462:SER:HB3	1.76	0.67
1:I:224:ASP:OD1	1:I:225:PHE:N	2.28	0.67
1:E:844:HIS:CE1	1:E:845:GLN:HG3	2.30	0.67
1:O:23:GLN:O	1:O:24:LEU:HD13	1.95	0.67
1:J:531:ARG:O	1:J:561:ARG:NH1	2.27	0.67
1:D:749:ILE:CD1	1:D:834:VAL:HG11	2.25	0.67
1:M:220:THR:HA	1:M:247:CYS:O	1.95	0.66
1:M:436:MET:O	1:M:439:ARG:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:448:ARG:HH22	1:M:478:VAL:HG12	1.60	0.66
1:P:62:TRP:CH2	1:P:64:PRO:HA	2.30	0.66
1:L:36:TRP:CD1	1:L:41:GLU:HB2	2.30	0.66
1:B:7:LEU:N	1:B:71:GLU:OE2	2.28	0.66
1:G:237:ARG:HD2	1:G:296:GLU:HG2	1.77	0.66
1:E:948:PRO:HG2	1:E:949:HIS:CE1	2.30	0.66
1:E:275:GLY:HA2	1:E:285:TYR:O	1.96	0.66
1:P:810:TRP:O	1:P:811:LYS:C	2.33	0.66
1:P:878:HIS:HB3	1:P:1009:LEU:O	1.95	0.66
1:K:307:ASN:O	1:K:308:LEU:HD23	1.94	0.66
1:B:390:SER:HA	1:B:391:HIS:ND1	2.10	0.66
1:P:631:LEU:HD11	1:P:633:GLY:O	1.95	0.66
1:G:894:ARG:HH12	1:G:920:LEU:HA	1.61	0.66
1:O:614:HIS:ND1	3:O:1287:HOH:O	2.28	0.66
1:D:902:PRO:HD3	1:D:918:TRP:CH2	2.30	0.66
1:A:1004:SER:O	1:A:1005:ALA:C	2.34	0.66
1:D:890:GLN:HE21	1:D:891:VAL:H	1.43	0.66
1:H:6:SER:OG	1:H:9:VAL:HG23	1.95	0.66
1:D:454:ILE:HG13	1:D:455:ILE:HG13	1.77	0.66
1:G:91:GLN:HB3	1:G:98:PRO:HD3	1.76	0.66
1:G:778:THR:OG1	1:G:887:GLN:HB3	1.95	0.66
1:J:753:ASN:OD1	1:J:754:LYS:HG3	1.96	0.66
1:C:869:ASP:OD1	1:C:1015:HIS:ND1	2.28	0.66
1:E:27:LEU:N	1:E:27:LEU:HD23	2.10	0.66
1:P:26:ARG:HD2	1:P:442:ARG:NH2	2.10	0.66
1:M:31:PRO:HG2	1:M:225:PHE:CE1	2.30	0.66
1:P:246:MET:HB3	1:P:274:PHE:CZ	2.30	0.66
1:H:14:ARG:NH1	1:H:16:TRP:HZ2	1.93	0.66
1:J:84:VAL:HG12	1:J:85:VAL:N	2.10	0.66
1:G:436:MET:CE	1:G:467:ASN:HD22	2.07	0.66
1:I:37:ARG:NH2	1:I:218:PRO:HD3	2.10	0.66
1:E:796:SER:OG	1:E:801:ILE:HA	1.94	0.66
1:E:129:VAL:HG23	1:E:182:ASN:HD22	1.58	0.66
1:G:126:THR:OG1	1:G:183:ARG:HG3	1.95	0.66
1:J:742:THR:HG23	1:J:747:PHE:CE1	2.30	0.66
1:G:540:HIS:HD2	1:G:568:TRP:HD1	1.40	0.66
1:A:816:TYR:HB2	3:A:1207:HOH:O	1.93	0.66
1:N:142:ILE:HG12	1:N:170:GLU:HG2	1.76	0.66
1:A:129:VAL:HG23	1:A:182:ASN:HD22	1.60	0.66
1:L:202:MET:HE3	1:L:357:HIS:CD2	2.30	0.66
1:H:360:HIS:ND1	1:H:361:PRO:HD2	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:764:PHE:O	1:L:766:SER:N	2.29	0.66
1:A:204:ARG:N	1:A:204:ARG:HD3	2.09	0.66
1:B:1011:ALA:HB3	1:B:1014:TYR:CZ	2.30	0.66
1:K:148:SER:HB3	1:K:190:ARG:O	1.95	0.66
1:P:14:ARG:HG2	1:P:14:ARG:NH1	2.10	0.66
1:M:148:SER:HB3	1:M:190:ARG:O	1.95	0.66
1:M:355:ASN:H	1:M:355:ASN:HD22	1.44	0.66
1:K:747:PHE:CE2	1:K:760:ARG:HD3	2.30	0.66
1:I:360:HIS:ND1	1:I:363:HIS:N	2.35	0.66
1:J:708:TRP:CZ3	1:J:709:SER:HB3	2.30	0.66
1:C:433:LEU:HB3	1:C:434:PRO:HD3	1.75	0.66
1:O:850:PHE:CD2	1:O:872:VAL:HG13	2.25	0.66
1:A:131:GLU:HB2	1:A:135:GLN:NE2	2.11	0.66
1:M:505:ARG:HG2	1:M:996:ASP:OD2	1.94	0.66
1:K:441:THR:HG22	1:K:474:TRP:CH2	2.31	0.66
1:B:77:ASP:C	1:B:78:LEU:HD23	2.16	0.66
1:E:559:TYR:HB2	1:E:562:LEU:HD12	1.76	0.66
1:O:505:ARG:HG2	1:O:996:ASP:OD2	1.95	0.66
1:L:262:GLN:HE22	1:L:299:LYS:HD2	1.58	0.66
1:L:660:GLY:O	1:L:662:PRO:HD3	1.94	0.66
1:J:5:ASP:OD2	1:J:157:ARG:HA	1.95	0.66
1:O:46:ARG:HB3	1:O:47:PRO:HD2	1.77	0.66
1:I:856:TYR:HD2	1:I:864:MET:HE2	1.61	0.66
1:M:147:ASN:HB2	1:M:209:PHE:HE2	1.59	0.66
1:E:100:TYR:O	1:E:597:ASN:HA	1.94	0.66
1:E:69:VAL:HG21	1:E:122:CYS:SG	2.35	0.66
1:M:131:GLU:O	1:M:134:LEU:N	2.28	0.66
1:I:679:LEU:N	1:I:679:LEU:HD23	2.04	0.66
1:N:702:GLN:O	1:N:712:GLY:N	2.28	0.66
1:E:467:ASN:O	1:E:471:LEU:HD12	1.95	0.66
1:I:285:TYR:HB3	1:I:288:ARG:HB2	1.78	0.66
1:P:89:ASN:HD22	1:P:206:SER:H	1.43	0.66
1:P:300:LEU:O	1:P:307:ASN:HB2	1.94	0.66
1:A:429:ASP:OD1	1:A:431:ARG:N	2.29	0.66
1:G:738:PRO:HA	1:G:751:LEU:HD13	1.76	0.66
1:J:975:LEU:HD23	1:J:975:LEU:N	2.08	0.66
1:M:54:LEU:N	1:M:54:LEU:HD23	2.10	0.66
1:P:881:ARG:NH1	1:P:987:ASP:OD2	2.26	0.66
1:N:237:ARG:NH1	1:N:237:ARG:HG3	2.08	0.66
1:L:86:VAL:CG1	1:L:87:PRO:HA	2.23	0.66
1:O:722:LEU:N	1:O:722:LEU:HD23	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:833:ALA:HB1	1:H:859:ASP:HA	1.77	0.66
1:C:100:TYR:HB2	1:C:203:TRP:CE3	2.31	0.66
1:P:740:LEU:HD12	1:P:741:THR:H	1.58	0.66
1:A:531:ARG:O	1:A:561:ARG:NH1	2.28	0.66
1:J:579:ASP:CG	1:J:583:ASN:HB2	2.15	0.66
1:L:210:ARG:HH11	1:L:395:HIS:HA	1.60	0.66
1:H:824:GLN:O	1:H:838:THR:HA	1.95	0.66
1:K:907:PRO:HA	1:K:910:LEU:CD2	2.25	0.66
1:H:579:ASP:OD1	1:H:583:ASN:N	2.28	0.66
1:O:131:GLU:O	1:O:134:LEU:N	2.29	0.66
1:K:502:MET:O	1:K:517:LYS:NZ	2.29	0.66
1:G:869:ASP:OD1	1:G:1015:HIS:ND1	2.29	0.66
1:L:224:ASP:OD1	1:L:225:PHE:N	2.28	0.66
1:E:11:LEU:N	1:E:11:LEU:HD23	2.10	0.66
1:A:224:ASP:OD1	1:A:225:PHE:N	2.29	0.66
1:A:78:LEU:HD23	1:A:78:LEU:N	2.08	0.66
1:D:427:THR:HG22	1:D:436:MET:HE2	1.78	0.66
1:M:581:ASN:HB2	1:M:583:ASN:ND2	1.98	0.66
1:P:42:ALA:O	1:P:310:ARG:NH1	2.28	0.66
1:E:34:ALA:HA	1:E:51:LEU:HD22	1.77	0.66
1:I:240:LEU:HD12	1:I:241:GLU:N	2.11	0.66
1:I:86:VAL:CG1	1:I:87:PRO:HA	2.23	0.66
1:K:658:LEU:O	1:K:661:LYS:N	2.29	0.66
1:B:597:ASN:ND2	1:B:599:ARG:H	1.93	0.66
1:J:672:VAL:CG1	1:J:678:GLN:HB2	2.24	0.66
1:I:413:ALA:HB2	1:I:443:MET:HE2	1.77	0.66
1:N:579:ASP:OD1	1:N:582:GLY:N	2.29	0.66
1:L:559:TYR:HB2	1:L:562:LEU:HD12	1.77	0.66
1:K:854:LYS:NZ	3:K:1214:HOH:O	2.29	0.66
1:I:292:ARG:C	1:I:293:LEU:HD23	2.15	0.66
1:L:650:GLU:HB3	1:L:670:LEU:HB2	1.77	0.66
1:H:737:ILE:O	1:H:737:ILE:HG13	1.94	0.66
1:N:425:ARG:NH2	1:O:287:ASP:OD2	2.29	0.66
1:G:307:ASN:O	1:G:308:LEU:HD23	1.95	0.66
1:P:656:VAL:HB	1:P:664:ALA:CB	2.09	0.66
1:P:256:VAL:C	1:P:271:THR:HG23	2.15	0.66
1:M:424:ASN:HB3	1:P:285:TYR:OH	1.96	0.66
1:M:767:GLN:NE2	1:M:768:MET:N	2.44	0.66
1:P:261:TRP:CZ3	1:P:266:GLN:HB2	2.30	0.66
1:C:166:ARG:HG2	1:C:392:TYR:CB	2.26	0.66
1:E:287:ASP:OD2	1:H:425:ARG:NH2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:600:GLN:NE2	1:F:790:ASP:OD1	2.29	0.66
1:K:750:GLU:HG2	1:K:755:ARG:HG2	1.78	0.66
1:G:7:LEU:N	1:G:71:GLU:OE2	2.28	0.66
1:P:660:GLY:O	1:P:662:PRO:HD3	1.96	0.66
1:O:60:PHE:HB3	1:O:84:VAL:CG2	2.26	0.66
1:G:743:SER:O	1:G:760:ARG:NH1	2.29	0.66
1:B:152:LEU:HD12	1:B:153:TRP:H	1.60	0.66
1:G:42:ALA:O	1:G:310:ARG:NH1	2.29	0.66
1:B:422:PRO:CB	1:C:279:ILE:HD11	2.26	0.66
1:G:224:ASP:OD1	1:G:225:PHE:N	2.29	0.66
1:H:965:GLN:O	1:H:969:GLU:HG3	1.96	0.66
1:I:427:THR:HG22	1:I:436:MET:CE	2.24	0.66
1:P:881:ARG:HB2	1:P:987:ASP:OD1	1.96	0.66
1:P:651:LEU:HD12	1:P:652:LEU:H	1.59	0.66
1:H:896:ASN:HB2	1:H:919:ASP:OD1	1.95	0.66
1:N:224:ASP:OD1	1:N:225:PHE:N	2.29	0.66
1:E:906:TYR:HB3	1:E:907:PRO:HD2	1.76	0.66
1:B:237:ARG:HD3	1:B:296:GLU:HG2	1.78	0.66
1:K:778:THR:HG23	1:K:779:PRO:HD2	1.76	0.66
1:K:460:ASN:O	1:K:461:GLU:C	2.32	0.66
1:D:587:ALA:HB1	1:D:591:ASP:HB2	1.77	0.66
1:K:312:VAL:HG13	1:K:327:ALA:HB2	1.77	0.66
1:C:167:LEU:HB3	1:C:168:PRO:HD2	1.77	0.66
1:K:570:TRP:HD1	1:K:571:VAL:HG22	1.61	0.66
1:L:984:LEU:HD21	1:L:986:ILE:HD11	1.78	0.66
1:E:574:SER:CB	3:E:1289:HOH:O	2.43	0.66
1:M:309:TYR:O	1:M:330:VAL:N	2.27	0.66
1:G:933:SER:O	1:G:935:ASN:ND2	2.29	0.66
1:I:577:LYS:O	1:I:584:PRO:HA	1.96	0.66
1:P:878:HIS:HD2	1:P:1010:SER:HB3	1.60	0.66
1:F:544:ASN:HB3	1:F:789:LEU:HD22	1.77	0.66
1:P:833:ALA:HB1	1:P:858:ILE:O	1.96	0.66
1:C:881:ARG:NH1	1:C:987:ASP:OD2	2.29	0.66
1:J:604:ASN:ND2	3:J:1260:HOH:O	2.29	0.66
1:K:954:ASP:OD2	1:L:1013:ARG:NH1	2.29	0.66
1:J:793:ILE:HA	1:J:807:VAL:HG12	1.78	0.66
1:K:801:ILE:O	1:K:803:PRO:HD3	1.95	0.66
1:I:353:GLY:O	1:I:566:PHE:HA	1.96	0.66
1:N:57:GLU:HB3	1:N:83:THR:HG23	1.77	0.66
1:K:645:ARG:NH1	1:K:646:HIS:O	2.28	0.66
1:M:579:ASP:O	1:M:582:GLY:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:718:GLN:HA	3:H:1248:HOH:O	1.96	0.66
1:P:386:ALA:HA	1:P:407:LEU:HD22	1.77	0.66
1:M:427:THR:HA	1:M:436:MET:HE2	1.78	0.66
1:P:920:LEU:HB3	1:P:921:PRO:HD2	1.78	0.66
1:C:228:ALA:O	1:C:240:LEU:HD12	1.96	0.66
1:P:650:GLU:O	1:P:670:LEU:HB2	1.94	0.66
1:M:102:ASN:ND2	1:M:201:ASP:HB2	2.11	0.66
1:E:706:THR:O	1:E:708:TRP:N	2.29	0.66
1:D:439:ARG:HH11	1:D:439:ARG:HG2	1.60	0.66
1:M:59:ARG:NH2	1:M:81:ALA:O	2.29	0.66
1:E:37:ARG:NH2	1:E:216:HIS:O	2.29	0.66
1:E:293:LEU:HD23	1:E:293:LEU:N	2.10	0.66
1:D:166:ARG:HG3	1:D:392:TYR:HB2	1.77	0.66
1:E:1011:ALA:HB3	1:E:1014:TYR:CZ	2.30	0.66
1:E:653:HIS:CD2	1:E:667:GLU:HB3	2.31	0.66
1:N:449:ASN:HB2	3:N:1290:HOH:O	1.96	0.66
1:C:249:GLU:HB3	1:C:251:ARG:NH1	2.11	0.66
1:M:110:ASN:O	1:M:113:PHE:N	2.29	0.66
1:M:893:GLU:OE1	1:M:893:GLU:HA	1.95	0.66
1:K:211:ASP:N	1:K:211:ASP:OD1	2.29	0.66
1:L:351:ILE:N	1:L:563:GLN:O	2.27	0.66
1:C:78:LEU:HD22	1:C:80:GLU:OE2	1.95	0.66
1:M:140:ARG:HD2	1:M:215:LEU:HD23	1.78	0.65
1:M:34:ALA:HB3	1:M:36:TRP:CE3	2.30	0.65
1:J:314:GLU:HB3	1:J:322:LEU:CD1	2.25	0.65
1:P:708:TRP:CE3	1:P:709:SER:HB3	2.32	0.65
1:M:503:TYR:N	1:M:537:GLU:O	2.28	0.65
1:P:251:ARG:O	1:P:253:TYR:N	2.28	0.65
1:L:360:HIS:HE1	1:L:362:LEU:HB2	1.61	0.65
1:L:36:TRP:CG	1:L:42:ALA:HB2	2.30	0.65
1:J:197:LEU:HD12	1:J:439:ARG:NE	2.11	0.65
1:P:333:ARG:NH1	1:P:451:PRO:O	2.29	0.65
1:P:485:GLN:NE2	3:P:1252:HOH:O	2.28	0.65
1:H:975:LEU:HD23	1:H:975:LEU:N	2.10	0.65
1:I:856:TYR:CD2	1:I:864:MET:HE2	2.31	0.65
1:C:210:ARG:NH1	1:C:395:HIS:N	2.44	0.65
1:J:572:ASP:HB3	1:J:603:MET:HG2	1.78	0.65
1:O:333:ARG:NH1	1:O:451:PRO:O	2.28	0.65
1:C:59:ARG:NH2	1:C:81:ALA:O	2.30	0.65
1:B:869:ASP:OD1	1:B:1015:HIS:ND1	2.30	0.65
1:L:622:HIS:HB2	1:L:717:TRP:CZ2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:52:ARG:O	1:M:214:LEU:N	2.29	0.65
1:M:31:PRO:HG2	1:M:225:PHE:CD1	2.31	0.65
1:P:706:THR:HG21	1:P:708:TRP:CE2	2.32	0.65
1:M:200:GLN:O	1:M:204:ARG:NH2	2.29	0.65
1:M:388:ARG:NH2	1:M:460:ASN:OD1	2.28	0.65
1:C:949:HIS:HD2	1:C:1020:TRP:NE1	1.91	0.65
1:K:293:LEU:N	1:K:293:LEU:HD23	2.12	0.65
1:H:570:TRP:O	1:H:607:VAL:HG22	1.96	0.65
1:G:436:MET:HE1	1:G:467:ASN:HB2	1.77	0.65
1:H:377:LEU:CD2	1:H:708:TRP:HA	2.26	0.65
1:A:360:HIS:CG	1:A:361:PRO:HD2	2.30	0.65
1:B:770:ILE:HD12	1:B:775:GLN:OE1	1.96	0.65
1:M:400:THR:CG2	1:M:404:ARG:HD2	2.26	0.65
1:I:293:LEU:HD23	1:I:293:LEU:N	2.10	0.65
1:O:847:LYS:NZ	1:O:875:ASP:OD1	2.29	0.65
1:I:697:THR:OG1	1:I:719:GLN:NE2	2.29	0.65
1:L:658:LEU:N	1:L:661:LYS:O	2.29	0.65
1:E:118:ASN:O	1:E:120:THR:N	2.29	0.65
1:I:23:GLN:O	1:I:24:LEU:HD13	1.96	0.65
1:F:166:ARG:HG3	1:F:392:TYR:HB2	1.78	0.65
1:M:158:TRP:CH2	1:M:160:GLY:HA2	2.31	0.65
1:P:539:ALA:O	1:P:541:ALA:N	2.29	0.65
1:K:579:ASP:O	1:K:580:GLU:C	2.33	0.65
1:H:390:SER:HA	1:H:391:HIS:ND1	2.10	0.65
1:I:279:ILE:CD1	1:L:422:PRO:HG2	2.26	0.65
1:M:260:LEU:N	1:M:268:ALA:O	2.29	0.65
1:P:796:SER:HB2	1:P:802:ASP:HB3	1.76	0.65
1:I:672:VAL:CG1	1:I:678:GLN:HB2	2.26	0.65
1:M:840:HIS:ND1	1:M:840:HIS:N	2.42	0.65
1:D:646:HIS:NE2	1:D:671:ASP:OD1	2.29	0.65
1:I:894:ARG:NH1	1:I:919:ASP:OD2	2.29	0.65
1:N:18:ASN:N	1:N:193:ASP:OD2	2.29	0.65
1:E:322:LEU:HD23	1:E:324:GLU:N	2.11	0.65
1:B:138:GLN:NE2	1:B:172:ASP:OD2	2.30	0.65
1:J:655:MET:HG2	1:J:656:VAL:N	2.09	0.65
1:M:581:ASN:H	1:M:581:ASN:ND2	1.94	0.65
1:E:759:ASN:OD1	1:E:761:GLN:N	2.29	0.65
1:O:7:LEU:O	1:O:10:VAL:N	2.29	0.65
1:L:91:GLN:HB3	1:L:98:PRO:HD3	1.77	0.65
1:L:359:HIS:ND1	1:L:573:GLN:HG2	2.10	0.65
1:L:778:THR:CG2	1:L:779:PRO:HD2	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:577:LYS:O	1:L:584:PRO:HA	1.96	0.65
1:K:937:LEU:C	1:K:938:ARG:HG2	2.15	0.65
1:D:395:HIS:CG	1:D:396:PRO:HD2	2.32	0.65
1:M:246:MET:HB3	1:M:274:PHE:CE2	2.31	0.65
1:N:434:PRO:HB3	1:O:434:PRO:HB3	1.79	0.65
1:L:114:VAL:HG22	1:L:191:TRP:CB	2.27	0.65
1:K:102:ASN:HD22	1:K:201:ASP:CB	2.10	0.65
1:K:274:PHE:CD2	1:K:289:VAL:HG12	2.32	0.65
1:D:701:VAL:CG2	1:D:714:ILE:HD13	2.26	0.65
1:D:390:SER:HB2	1:D:391:HIS:CE1	2.31	0.65
1:F:747:PHE:HE2	1:F:825:CYS:HG	1.42	0.65
1:A:814:GLY:O	1:A:815:HIS:C	2.31	0.65
1:I:502:MET:HB2	1:I:537:GLU:HB2	1.78	0.65
1:I:1005:ALA:HA	1:I:1008:GLN:HG3	1.77	0.65
1:N:73:TRP:CZ2	1:N:185:ALA:HB1	2.30	0.65
1:O:1015:HIS:NE2	1:O:1017:GLN:OE1	2.30	0.65
1:E:7:LEU:HD13	1:E:74:LEU:CD1	2.13	0.65
1:P:258:VAL:O	1:P:269:SER:HA	1.96	0.65
1:P:388:ARG:NH1	1:P:537:GLU:OE2	2.30	0.65
1:M:433:LEU:HD12	1:M:433:LEU:O	1.94	0.65
1:H:30:HIS:ND1	1:H:31:PRO:O	2.29	0.65
1:H:36:TRP:CD1	1:H:41:GLU:HB3	2.31	0.65
1:M:249:GLU:OE1	1:M:251:ARG:NH2	2.30	0.65
1:F:44:THR:O	1:F:46:ARG:N	2.29	0.65
1:F:202:MET:HE1	1:F:392:TYR:HE2	1.62	0.65
1:P:309:TYR:O	1:P:330:VAL:N	2.27	0.65
1:A:390:SER:HB2	1:A:391:HIS:CE1	2.32	0.65
1:L:875:ASP:OD1	1:L:875:ASP:N	2.29	0.65
1:I:117:GLU:OE1	1:I:117:GLU:N	2.30	0.65
1:K:807:VAL:O	1:K:811:LYS:HG3	1.97	0.65
1:N:685:LEU:O	1:N:687:GLN:NE2	2.30	0.65
1:N:398:TRP:O	1:N:401:LEU:HB2	1.97	0.65
1:P:6:SER:OG	1:P:9:VAL:HG23	1.97	0.65
1:M:282:ARG:O	1:P:421:VAL:HG13	1.97	0.65
1:E:14:ARG:NH1	1:E:14:ARG:HG2	2.12	0.65
1:B:42:ALA:O	1:B:310:ARG:NH1	2.30	0.65
1:F:949:HIS:CD2	1:F:1020:TRP:HE1	2.11	0.65
1:L:581:ASN:CB	1:L:583:ASN:HD21	2.08	0.65
1:K:902:PRO:O	1:K:938:ARG:NH1	2.30	0.65
1:B:706:THR:OG1	1:B:709:SER:N	2.30	0.65
1:F:167:LEU:HB3	1:F:168:PRO:HD2	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:TRP:HE1	1:A:604:ASN:ND2	1.93	0.65
1:F:425:ARG:NH2	1:G:287:ASP:OD2	2.30	0.65
1:M:963:SER:N	1:M:979:GLU:OE1	2.29	0.65
1:N:145:GLY:CA	1:N:210:ARG:HB2	2.27	0.65
1:B:232:ASN:ND2	1:B:237:ARG:N	2.43	0.65
1:K:789:LEU:N	1:K:792:ASP:OD2	2.28	0.65
1:G:66:PRO:HB3	1:G:187:MET:CE	2.27	0.65
1:M:806:TRP:O	1:M:809:ARG:HB2	1.95	0.65
1:M:638:VAL:O	1:M:677:LYS:HA	1.97	0.65
1:F:902:PRO:O	1:F:938:ARG:NH1	2.29	0.65
1:A:194:GLY:O	1:A:198:GLU:HG3	1.95	0.65
1:I:29:ALA:HB3	1:I:445:GLN:NE2	2.12	0.65
1:D:7:LEU:N	1:D:71:GLU:OE2	2.29	0.65
1:C:333:ARG:NH1	1:C:451:PRO:O	2.29	0.65
1:K:649:ASN:O	1:K:702:GLN:HG2	1.96	0.65
1:P:224:ASP:OD1	1:P:225:PHE:N	2.28	0.65
1:K:357:HIS:HE1	1:K:568:TRP:HH2	1.43	0.65
1:H:615:PRO:HG2	1:H:904:GLU:OE2	1.96	0.65
1:F:129:VAL:HG23	1:F:182:ASN:ND2	2.12	0.65
1:A:742:THR:HG22	1:A:743:SER:N	2.12	0.65
1:D:377:LEU:HD22	1:D:708:TRP:HA	1.79	0.65
1:E:445:GLN:HE22	1:H:430:PRO:HG2	1.61	0.65
1:M:451:PRO:O	1:M:453:VAL:N	2.30	0.65
1:O:471:LEU:O	1:O:475:ILE:HG13	1.96	0.65
1:F:869:ASP:OD1	1:F:1015:HIS:ND1	2.30	0.65
1:J:380:LYS:HE3	1:J:406:GLY:O	1.96	0.65
1:P:324:GLU:HG2	1:P:325:ALA:N	2.11	0.65
1:A:894:ARG:HH12	1:A:920:LEU:CA	2.10	0.65
1:E:66:PRO:HB3	1:E:187:MET:CE	2.27	0.65
1:H:275:GLY:HA2	1:H:285:TYR:O	1.96	0.65
1:M:381:GLN:NE2	1:M:708:TRP:O	2.29	0.65
1:M:822:LEU:HD12	1:M:824:GLN:N	2.11	0.65
1:H:205:MET:HE3	1:H:365:GLN:N	2.11	0.65
1:F:356:ARG:HD2	1:F:379:MET:HE1	1.78	0.65
1:I:651:LEU:HD12	1:I:652:LEU:H	1.59	0.65
1:G:531:ARG:O	1:G:561:ARG:NH1	2.29	0.65
1:E:333:ARG:NH1	1:E:451:PRO:O	2.30	0.65
1:C:249:GLU:CD	1:C:251:ARG:HH22	2.00	0.65
1:F:202:MET:HE1	1:F:392:TYR:CE2	2.31	0.65
1:B:334:GLU:OE1	1:B:336:ARG:NH1	2.30	0.65
1:C:917:ARG:NH2	1:C:943:GLU:OE2	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:646:HIS:NE2	1:L:671:ASP:OD1	2.29	0.65
1:L:608:PHE:O	1:L:611:ARG:N	2.27	0.65
1:H:224:ASP:OD1	1:H:225:PHE:N	2.30	0.65
1:B:441:THR:O	1:B:445:GLN:HG3	1.97	0.65
1:L:830:LEU:HB2	1:L:833:ALA:O	1.96	0.65
1:P:400:THR:HG22	1:P:404:ARG:HD3	1.76	0.65
1:A:600:GLN:NE2	1:A:790:ASP:OD1	2.30	0.65
1:G:322:LEU:HD21	1:G:324:GLU:O	1.97	0.65
1:L:1008:GLN:O	1:L:1010:SER:N	2.30	0.65
1:B:696:LEU:HD12	1:B:697:THR:N	2.11	0.65
1:N:152:LEU:HD12	1:N:153:TRP:H	1.62	0.65
1:B:658:LEU:O	1:B:661:LYS:HD3	1.96	0.65
1:B:421:VAL:O	1:B:425:ARG:NH1	2.29	0.65
1:E:486:TYR:CE2	1:E:488:GLY:HA3	2.31	0.65
1:F:531:ARG:O	1:F:561:ARG:NH1	2.28	0.65
1:N:202:MET:HB2	1:N:573:GLN:OE1	1.97	0.65
1:B:333:ARG:NH1	1:B:451:PRO:O	2.30	0.65
1:F:893:GLU:HA	1:F:893:GLU:OE1	1.97	0.65
1:L:806:TRP:O	1:L:809:ARG:N	2.29	0.65
1:M:778:THR:CG2	1:M:779:PRO:HD2	2.27	0.65
1:H:1020:TRP:HD1	1:H:1021:CYS:N	1.95	0.65
1:A:1020:TRP:HD1	1:A:1021:CYS:N	1.95	0.65
1:P:634:GLN:O	1:P:682:LEU:HB2	1.96	0.65
1:E:579:ASP:OD2	1:E:583:ASN:HB2	1.97	0.65
1:K:954:ASP:HB3	1:L:1013:ARG:NH2	2.12	0.65
1:F:568:TRP:HE1	1:F:604:ASN:HD22	1.45	0.65
1:H:413:ALA:O	1:H:415:ILE:N	2.29	0.65
1:K:319:ASP:OD1	1:K:320:GLY:N	2.29	0.65
1:O:646:HIS:O	1:O:648:ASP:N	2.30	0.65
1:H:400:THR:O	1:H:404:ARG:HD2	1.97	0.65
1:M:66:PRO:CB	1:M:187:MET:HE3	2.25	0.64
1:F:7:LEU:N	1:F:71:GLU:OE2	2.29	0.64
1:A:166:ARG:HG2	1:A:392:TYR:CB	2.18	0.64
1:E:260:LEU:HD12	1:E:310:ARG:O	1.96	0.64
1:P:970:THR:CG2	1:P:976:LEU:HD23	2.27	0.64
1:P:616:ALA:O	1:P:618:THR:N	2.30	0.64
1:M:608:PHE:O	1:M:611:ARG:N	2.29	0.64
1:L:100:TYR:CZ	1:L:602:CYS:HB3	2.31	0.64
1:D:78:LEU:HD23	1:D:78:LEU:N	2.11	0.64
1:G:932:PRO:HG2	1:G:970:THR:O	1.97	0.64
1:I:59:ARG:CZ	1:I:81:ALA:HB3	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:950:GLN:OE1	1:O:952:ARG:NE	2.30	0.64
1:K:654:TRP:CE2	1:K:666:GLY:HA3	2.32	0.64
1:G:724:GLU:HB2	1:H:874:SER:OG	1.97	0.64
1:G:128:ASN:HA	1:G:180:GLY:O	1.97	0.64
1:L:600:GLN:NE2	1:L:790:ASP:OD1	2.30	0.64
1:A:619:GLU:HA	1:A:912:ALA:HB2	1.78	0.64
1:O:243:GLU:OE2	1:O:245:GLN:NE2	2.31	0.64
1:B:429:ASP:OD2	1:B:431:ARG:NH1	2.30	0.64
1:L:856:TYR:HD2	1:L:864:MET:HE2	1.62	0.64
1:E:876:THR:O	1:E:877:PRO:C	2.31	0.64
1:P:703:PRO:O	1:P:711:ALA:HB1	1.97	0.64
1:J:287:ASP:OD2	1:K:425:ARG:NH2	2.30	0.64
1:K:898:LEU:HD13	1:K:917:ARG:NH1	2.12	0.64
1:I:425:ARG:NH2	1:L:287:ASP:OD2	2.30	0.64
1:F:892:ALA:HB3	1:F:946:TYR:CE1	2.31	0.64
1:N:696:LEU:HD12	1:N:697:THR:N	2.12	0.64
1:H:759:ASN:OD1	1:H:761:GLN:N	2.29	0.64
1:M:502:MET:CB	1:M:537:GLU:HB2	2.25	0.64
1:H:42:ALA:O	1:H:310:ARG:NH1	2.30	0.64
1:L:123:TYR:CD2	1:L:208:ILE:HD12	2.33	0.64
1:H:118:ASN:ND2	1:H:191:TRP:O	2.30	0.64
1:L:701:VAL:O	1:L:703:PRO:HD3	1.98	0.64
1:K:658:LEU:O	1:K:660:GLY:N	2.30	0.64
1:D:397:LEU:O	1:D:397:LEU:HD12	1.96	0.64
1:E:274:PHE:HB3	1:E:286:ALA:O	1.97	0.64
1:L:975:LEU:HD23	1:L:975:LEU:N	2.07	0.64
1:D:579:ASP:CG	1:D:583:ASN:HB2	2.18	0.64
1:P:71:GLU:O	1:P:74:LEU:HB2	1.97	0.64
1:H:413:ALA:HB3	1:H:458:LEU:O	1.96	0.64
1:N:446:ARG:NE	1:N:447:ASP:OD1	2.30	0.64
1:O:167:LEU:HB3	1:O:168:PRO:HD2	1.78	0.64
1:H:371:THR:O	1:H:374:GLN:N	2.29	0.64
1:I:600:GLN:O	1:I:603:MET:N	2.29	0.64
1:N:592:PHE:HB2	1:N:594:ASP:OD1	1.96	0.64
1:F:856:TYR:HB3	1:F:864:MET:CE	2.20	0.64
1:P:935:ASN:O	1:P:937:LEU:N	2.29	0.64
1:P:571:VAL:HG12	1:P:572:ASP:N	2.11	0.64
1:P:541:ALA:HB1	1:P:606:LEU:HD23	1.79	0.64
1:P:823:LEU:HD11	1:P:841:ALA:HB2	1.78	0.64
1:O:100:TYR:CE2	1:O:602:CYS:HB3	2.32	0.64
1:I:434:PRO:O	1:I:437:SER:HB3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:86:VAL:CG2	1:P:123:TYR:HE2	2.11	0.64
1:O:85:VAL:O	1:O:88:SER:HB3	1.98	0.64
1:F:579:ASP:OD1	1:F:583:ASN:N	2.29	0.64
1:D:130:ASP:OD1	1:D:131:GLU:N	2.30	0.64
1:E:354:VAL:HG11	1:E:379:MET:HE2	1.80	0.64
1:L:599:ARG:NH1	1:L:600:GLN:OE1	2.28	0.64
1:E:474:TRP:CZ2	1:E:478:VAL:HG21	2.31	0.64
1:M:333:ARG:NH1	1:M:451:PRO:O	2.30	0.64
1:D:102:ASN:OD1	1:D:103:VAL:HG23	1.97	0.64
1:C:147:ASN:HB3	1:C:206:SER:HA	1.78	0.64
1:M:658:LEU:O	1:M:659:ASP:C	2.35	0.64
1:O:194:GLY:O	1:O:198:GLU:HG3	1.97	0.64
1:P:447:ASP:O	1:P:449:ASN:N	2.29	0.64
1:G:53:SER:O	1:G:54:LEU:HD23	1.98	0.64
1:K:608:PHE:O	1:K:611:ARG:N	2.30	0.64
1:E:36:TRP:CE3	1:E:42:ALA:HB2	2.31	0.64
1:M:441:THR:HG22	1:M:474:TRP:CH2	2.32	0.64
1:I:147:ASN:HB2	1:I:209:PHE:HE2	1.63	0.64
1:L:7:LEU:HD13	1:L:74:LEU:HD11	1.79	0.64
1:N:243:GLU:OE2	1:N:245:GLN:NE2	2.30	0.64
1:A:251:ARG:O	1:A:253:TYR:N	2.30	0.64
1:K:933:SER:O	1:K:935:ASN:ND2	2.29	0.64
1:P:682:LEU:CD2	1:P:683:PRO:HD2	2.28	0.64
1:H:474:TRP:CE2	1:H:478:VAL:HG21	2.33	0.64
1:E:155:ASN:ND2	1:E:182:ASN:OD1	2.29	0.64
1:M:350:LEU:O	1:M:385:ASN:ND2	2.30	0.64
1:M:646:HIS:NE2	1:M:671:ASP:OD1	2.29	0.64
1:M:616:ALA:O	1:M:617:LEU:C	2.33	0.64
1:J:743:SER:OG	1:J:744:GLU:N	2.31	0.64
1:K:544:ASN:HB3	1:K:789:LEU:HD22	1.79	0.64
1:G:540:HIS:CD2	1:G:568:TRP:HD1	2.16	0.64
1:E:738:PRO:HG2	1:E:834:VAL:HG23	1.79	0.64
1:O:878:HIS:CD2	1:O:1010:SER:HB3	2.31	0.64
1:E:53:SER:C	1:E:54:LEU:HD23	2.18	0.64
1:H:703:PRO:O	1:H:711:ALA:HB1	1.98	0.64
1:M:403:ASP:OD2	1:M:450:HIS:ND1	2.30	0.64
1:N:949:HIS:CD2	1:N:1020:TRP:HE1	2.14	0.64
1:C:902:PRO:O	1:C:938:ARG:NH1	2.31	0.64
1:J:820:ALA:HB2	1:J:842:TRP:CE2	2.32	0.64
1:I:658:LEU:O	1:I:661:LYS:HB2	1.98	0.64
1:F:347:LYS:HB3	1:F:348:PRO:HD2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:365:GLN:OE1	3:E:1243:HOH:O	2.15	0.64
1:H:353:GLY:O	1:H:566:PHE:HA	1.97	0.64
1:L:180:GLY:O	1:L:182:ASN:ND2	2.30	0.64
1:I:413:ALA:HB2	1:I:443:MET:HE1	1.79	0.64
1:F:217:LYS:NZ	1:F:222:ILE:O	2.31	0.64
1:L:350:LEU:HD12	1:L:563:GLN:O	1.97	0.64
1:B:902:PRO:O	1:B:938:ARG:NH1	2.27	0.64
1:I:928:PRO:HB2	1:I:973:ARG:HH11	1.61	0.64
1:H:138:GLN:HG3	1:H:172:ASP:OD2	1.97	0.64
1:D:796:SER:OG	1:D:801:ILE:HA	1.97	0.64
1:E:985:ASN:HB3	3:E:1282:HOH:O	1.97	0.64
1:I:211:ASP:OD1	1:I:211:ASP:N	2.28	0.64
1:I:78:LEU:HB3	1:I:79:PRO:HD2	1.79	0.64
1:L:73:TRP:CZ2	1:L:185:ALA:HB1	2.32	0.64
1:E:425:ARG:NH2	1:H:287:ASP:OD2	2.30	0.64
1:K:601:PHE:HE2	1:K:795:VAL:HG12	1.62	0.64
1:P:894:ARG:NH1	1:P:921:PRO:HD3	2.12	0.64
1:P:218:PRO:O	1:P:221:GLN:NE2	2.29	0.64
1:B:531:ARG:O	1:B:561:ARG:NH1	2.31	0.64
1:P:810:TRP:O	1:P:813:ALA:N	2.29	0.64
1:A:102:ASN:ND2	1:A:201:ASP:OD2	2.31	0.64
1:K:390:SER:HA	1:K:391:HIS:ND1	2.13	0.64
1:F:747:PHE:HE2	1:F:825:CYS:SG	2.21	0.64
1:H:429:ASP:OD1	1:H:431:ARG:N	2.29	0.64
1:E:39:SER:OG	1:E:40:GLU:N	2.30	0.64
1:N:627:PHE:O	1:N:628:GLN:NE2	2.30	0.64
1:C:50:GLN:H	1:C:50:GLN:NE2	1.96	0.64
1:A:117:GLU:OE1	1:A:117:GLU:N	2.30	0.64
1:O:937:LEU:C	1:O:938:ARG:HG2	2.17	0.64
1:H:300:LEU:O	1:H:307:ASN:HB2	1.96	0.64
1:G:27:LEU:HD12	1:G:140:ARG:HD3	1.78	0.64
1:A:509:ASP:OD1	1:A:519:SER:N	2.29	0.64
1:F:802:ASP:O	1:F:804:ASN:N	2.30	0.64
1:I:197:LEU:HD12	1:I:439:ARG:HE	1.63	0.64
1:H:1013:ARG:HG3	1:H:1013:ARG:HH11	1.63	0.64
1:P:150:PHE:HB2	1:P:187:MET:O	1.98	0.64
1:P:571:VAL:HG21	1:P:611:ARG:NH1	2.13	0.64
1:O:7:LEU:O	1:O:9:VAL:N	2.31	0.64
1:P:423:MET:HE2	1:P:461:GLU:HB3	1.80	0.64
1:H:27:LEU:HD12	1:H:140:ARG:NH1	2.12	0.64
1:K:658:LEU:N	1:K:661:LYS:O	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:287:ASP:OD2	1:O:425:ARG:NH2	2.31	0.64
1:G:236:SER:C	1:G:237:ARG:HG2	2.16	0.64
1:E:578:TYR:HA	1:E:583:ASN:O	1.98	0.64
1:L:595:THR:HG23	1:L:596:PRO:HA	1.78	0.64
1:M:881:ARG:HD3	1:M:987:ASP:OD1	1.98	0.64
1:H:413:ALA:HA	1:H:443:MET:HE2	1.78	0.64
1:M:161:TYR:OH	1:M:163:GLN:NE2	2.30	0.64
1:N:38:ASN:O	1:N:39:SER:C	2.34	0.64
1:N:770:ILE:HD11	1:N:1022:GLN:HG2	1.78	0.64
1:A:499:ILE:HB	1:A:533:LEU:HB2	1.80	0.64
1:L:961:ARG:NH2	1:L:979:GLU:O	2.29	0.64
1:K:885:ASN:HB2	1:K:984:LEU:O	1.98	0.64
1:K:50:GLN:NE2	1:K:50:GLN:H	1.96	0.64
1:J:36:TRP:O	1:J:37:ARG:HD3	1.97	0.64
1:P:579:ASP:O	1:P:580:GLU:HG2	1.98	0.64
1:M:100:TYR:CE2	1:M:602:CYS:HB3	2.33	0.64
1:L:749:ILE:O	1:L:755:ARG:HA	1.98	0.64
1:H:608:PHE:O	1:H:611:ARG:N	2.27	0.64
1:A:902:PRO:O	1:A:938:ARG:NH1	2.30	0.64
1:B:293:LEU:HD23	1:B:293:LEU:N	2.12	0.64
1:J:78:LEU:HB3	1:J:79:PRO:HD2	1.80	0.64
1:P:738:PRO:HA	1:P:751:LEU:HD12	1.80	0.64
1:G:66:PRO:O	1:G:69:VAL:HG23	1.97	0.64
1:D:1020:TRP:HD1	1:D:1021:CYS:N	1.96	0.64
1:D:854:LYS:HA	1:D:867:THR:O	1.98	0.64
1:L:40:GLU:O	1:L:44:THR:HG23	1.98	0.64
1:M:347:LYS:HG3	1:M:644:PHE:HE1	1.62	0.64
1:E:22:THR:O	1:E:26:ARG:NH2	2.30	0.64
1:M:221:GLN:O	1:M:247:CYS:N	2.29	0.64
1:M:148:SER:OG	1:M:149:ALA:N	2.30	0.64
1:P:898:LEU:HD23	1:P:942:ARG:HB2	1.79	0.64
1:J:436:MET:CE	1:J:467:ASN:HD22	2.11	0.64
1:K:774:LYS:C	1:K:775:GLN:HE21	2.01	0.64
1:D:79:PRO:HG2	1:D:80:GLU:HG2	1.79	0.64
1:M:336:ARG:HH21	1:M:338:GLU:CD	2.01	0.64
1:J:894:ARG:NH1	1:J:919:ASP:OD2	2.30	0.64
1:G:693:GLN:HG3	1:G:724:GLU:HG3	1.79	0.64
1:F:619:GLU:HA	1:F:912:ALA:HB2	1.80	0.64
1:E:986:ILE:HG21	1:E:1018:LEU:HD11	1.79	0.64
1:L:473:ARG:NH1	1:L:477:SER:OG	2.30	0.64
1:M:743:SER:OG	1:M:744:GLU:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:73:TRP:O	1:O:183:ARG:NH1	2.31	0.64
1:A:237:ARG:NH1	1:A:237:ARG:HG3	2.12	0.64
1:I:939:CYS:HA	1:I:956:GLN:HB3	1.79	0.64
1:I:316:HIS:ND1	1:I:316:HIS:N	2.46	0.64
1:E:18:ASN:N	1:E:193:ASP:OD2	2.31	0.64
1:P:260:LEU:O	1:P:267:VAL:N	2.27	0.64
1:P:34:ALA:HB3	1:P:36:TRP:CE3	2.33	0.64
1:M:887:GLN:OE1	1:M:981:GLY:N	2.30	0.64
1:G:1022:GLN:N	1:G:1022:GLN:OE1	2.31	0.64
1:M:429:ASP:O	1:M:432:TRP:N	2.29	0.64
1:J:355:ASN:ND2	1:J:355:ASN:N	2.46	0.64
1:G:686:PRO:O	1:G:688:PRO:HD3	1.98	0.64
1:M:285:TYR:CB	1:M:288:ARG:HG3	2.27	0.64
1:G:7:LEU:H	1:G:7:LEU:HD12	1.63	0.64
1:I:474:TRP:CE2	1:I:478:VAL:HG21	2.33	0.64
1:J:73:TRP:CZ2	1:J:122:CYS:HB3	2.33	0.64
1:E:217:LYS:NZ	1:E:324:GLU:OE2	2.29	0.64
1:N:262:GLN:HB2	1:N:309:TYR:CE1	2.33	0.64
1:H:376:ILE:HD11	1:H:398:TRP:CZ3	2.33	0.64
1:G:1020:TRP:HD1	1:G:1021:CYS:N	1.96	0.64
1:O:967:LEU:HD23	1:O:967:LEU:N	2.10	0.64
1:B:177:LEU:HD23	1:B:177:LEU:N	2.13	0.64
1:F:649:ASN:O	1:F:702:GLN:HA	1.98	0.64
1:I:308:LEU:HD13	1:I:329:ASP:HB3	1.79	0.64
1:P:13:ARG:HB2	1:P:15:ASP:OD2	1.98	0.63
1:K:6:SER:OG	1:K:8:ALA:HB3	1.97	0.63
1:M:251:ARG:O	1:M:253:TYR:N	2.30	0.63
1:N:293:LEU:HD23	1:N:293:LEU:N	2.11	0.63
1:E:275:GLY:N	1:E:286:ALA:O	2.28	0.63
1:I:653:HIS:NE2	1:I:667:GLU:HG2	2.13	0.63
1:F:261:TRP:CE2	1:F:266:GLN:HG3	2.34	0.63
1:I:383:ASN:ND2	1:I:625:GLN:HA	2.13	0.63
1:P:221:GLN:O	1:P:221:GLN:HG2	1.98	0.63
1:P:84:VAL:HG12	1:P:85:VAL:N	2.13	0.63
1:B:775:GLN:HA	1:B:775:GLN:NE2	2.13	0.63
1:F:130:ASP:OD1	1:F:132:SER:HB3	1.98	0.63
1:I:897:TRP:CZ3	1:I:918:TRP:HB2	2.32	0.63
1:L:72:SER:O	1:L:76:CYS:N	2.30	0.63
1:M:942:ARG:NH2	1:M:954:ASP:OD2	2.31	0.63
1:C:638:VAL:O	1:C:677:LYS:HA	1.98	0.63
1:F:961:ARG:NH2	1:F:979:GLU:O	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:331:GLY:HA2	3:E:1211:HOH:O	1.98	0.63
1:F:254:LEU:O	1:F:255:ARG:HD3	1.97	0.63
1:J:127:PHE:CE1	1:J:184:LEU:HG	2.34	0.63
1:P:163:GLN:HE22	1:P:193:ASP:CG	2.01	0.63
1:E:166:ARG:HG2	1:E:392:TYR:CB	2.24	0.63
1:P:902:PRO:HG3	1:P:918:TRP:CZ3	2.33	0.63
1:P:361:PRO:O	1:P:575:LEU:HB3	1.97	0.63
1:M:418:HIS:O	1:P:282:ARG:HD3	1.98	0.63
1:H:127:PHE:O	1:H:182:ASN:N	2.29	0.63
1:K:660:GLY:O	1:K:662:PRO:HD3	1.97	0.63
1:N:165:SER:O	1:N:166:ARG:HD2	1.97	0.63
1:P:465:GLY:O	1:P:468:HIS:HB2	1.97	0.63
1:F:786:ARG:HH11	1:F:990:HIS:HE1	1.46	0.63
1:G:128:ASN:HD21	1:G:180:GLY:HA2	1.63	0.63
1:N:300:LEU:N	1:N:300:LEU:HD23	2.13	0.63
1:B:930:VAL:HA	1:B:973:ARG:HD3	1.79	0.63
1:L:738:PRO:HA	1:L:751:LEU:HD12	1.80	0.63
1:M:39:SER:OG	1:M:40:GLU:N	2.30	0.63
1:I:822:LEU:HD12	1:I:824:GLN:H	1.63	0.63
1:H:52:ARG:O	1:H:214:LEU:N	2.28	0.63
1:K:580:GLU:HB2	1:K:581:ASN:ND2	2.13	0.63
1:H:110:ASN:ND2	1:H:113:PHE:HD2	1.96	0.63
1:H:165:SER:C	1:H:166:ARG:HD2	2.19	0.63
1:H:357:HIS:HE1	1:H:568:TRP:CH2	2.16	0.63
1:G:317:THR:HG23	1:G:323:ILE:HD11	1.80	0.63
1:B:145:GLY:HA3	1:B:210:ARG:HG3	1.79	0.63
1:B:536:CYS:O	1:B:566:PHE:HB2	1.98	0.63
1:K:907:PRO:HA	1:K:910:LEU:HD23	1.80	0.63
1:O:66:PRO:HB3	1:O:187:MET:HE1	1.79	0.63
1:D:902:PRO:O	1:D:938:ARG:NH1	2.31	0.63
1:J:654:TRP:NE1	1:J:666:GLY:HA3	2.14	0.63
1:L:736:ALA:O	1:L:737:ILE:HG22	1.97	0.63
1:G:347:LYS:HG3	1:G:644:PHE:CE1	2.33	0.63
1:J:281:GLU:OE1	1:J:281:GLU:N	2.29	0.63
1:F:246:MET:HG2	1:F:274:PHE:CZ	2.33	0.63
1:E:447:ASP:O	1:E:449:ASN:N	2.31	0.63
1:F:615:PRO:HD2	3:F:1286:HOH:O	1.98	0.63
1:F:627:PHE:C	1:F:628:GLN:HG2	2.18	0.63
1:M:43:ARG:HG2	1:M:44:THR:HG23	1.81	0.63
1:P:597:ASN:HD22	1:P:599:ARG:H	1.46	0.63
1:M:422:PRO:HG2	1:P:279:ILE:CD1	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:114:VAL:HG13	1:A:115:PRO:CD	2.25	0.63
1:M:894:ARG:HD3	1:M:919:ASP:OD1	1.99	0.63
1:P:127:PHE:O	1:P:182:ASN:N	2.31	0.63
1:K:232:ASN:N	1:K:232:ASN:OD1	2.30	0.63
1:K:844:HIS:O	1:K:845:GLN:C	2.35	0.63
1:B:236:SER:C	1:B:237:ARG:HG2	2.17	0.63
1:N:571:VAL:CG2	1:N:609:ALA:HA	2.28	0.63
1:E:531:ARG:O	1:E:561:ARG:NH1	2.31	0.63
1:P:72:SER:O	1:P:76:CYS:N	2.30	0.63
1:N:624:GLN:NE2	3:N:1217:HOH:O	2.31	0.63
1:I:118:ASN:O	1:I:119:PRO:C	2.35	0.63
1:K:217:LYS:HG2	1:K:218:PRO:HD2	1.81	0.63
1:P:701:VAL:HG22	1:P:714:ILE:HD11	1.76	0.63
1:M:668:VAL:CG1	1:M:669:PRO:HD2	2.27	0.63
1:E:3:ILE:O	1:E:3:ILE:HG13	1.94	0.63
1:H:73:TRP:O	1:H:183:ARG:NH1	2.28	0.63
1:H:568:TRP:CD2	1:H:569:ASP:HB3	2.33	0.63
1:M:301:TRP:CD1	1:M:306:PRO:HA	2.34	0.63
1:D:579:ASP:O	1:D:582:GLY:N	2.29	0.63
1:M:472:TYR:CE1	1:M:476:LYS:HD3	2.34	0.63
1:B:823:LEU:HB2	1:B:839:ALA:O	1.98	0.63
1:P:950:GLN:OE1	1:P:952:ARG:NH2	2.31	0.63
1:I:961:ARG:CB	1:I:978:ALA:HB1	2.27	0.63
1:I:937:LEU:C	1:I:938:ARG:HG2	2.19	0.63
1:K:412:GLU:HG3	1:K:457:SER:OG	1.98	0.63
1:C:797:GLU:O	1:C:801:ILE:HG13	1.98	0.63
1:P:413:ALA:O	1:P:415:ILE:N	2.30	0.63
1:D:505:ARG:NE	3:D:1256:HOH:O	2.31	0.63
1:K:359:HIS:ND1	1:K:573:GLN:HG2	2.14	0.63
1:I:916:ASP:OD1	1:I:917:ARG:N	2.28	0.63
1:N:881:ARG:NH2	1:N:964:GLN:OE1	2.30	0.63
1:P:138:GLN:HG3	1:P:172:ASP:OD2	1.97	0.63
1:A:202:MET:HE3	1:A:357:HIS:HD2	1.63	0.63
1:M:194:GLY:O	1:M:198:GLU:HG3	1.98	0.63
1:I:789:LEU:CD1	1:I:993:ILE:HG22	2.27	0.63
1:H:147:ASN:HB2	1:H:209:PHE:CE1	2.33	0.63
1:H:856:TYR:HD2	1:H:864:MET:CE	2.11	0.63
1:O:356:ARG:HH22	1:O:367:MET:CE	2.10	0.63
1:L:965:GLN:O	1:L:966:GLN:C	2.37	0.63
1:L:876:THR:O	1:L:877:PRO:C	2.34	0.63
1:L:782:ASP:HB2	1:L:842:TRP:CZ2	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:59:ARG:NH1	1:O:78:LEU:O	2.29	0.63
1:O:668:VAL:HG11	1:O:680:ILE:HG23	1.81	0.63
1:G:249:GLU:HG2	1:G:251:ARG:HE	1.62	0.63
1:L:658:LEU:O	1:L:661:LYS:N	2.31	0.63
1:E:138:GLN:N	1:E:217:LYS:O	2.29	0.63
1:N:650:GLU:HB3	1:N:670:LEU:HB2	1.81	0.63
1:K:925:MET:HB3	3:K:1268:HOH:O	1.99	0.63
1:B:608:PHE:O	1:B:611:ARG:N	2.31	0.63
1:O:524:LEU:HD11	1:O:562:LEU:CD2	2.28	0.63
1:I:925:MET:HB3	3:I:1271:HOH:O	1.98	0.63
1:M:870:VAL:HG12	1:M:871:GLU:N	2.12	0.63
1:E:639:THR:HA	1:E:676:GLY:O	1.99	0.63
1:O:485:GLN:HA	1:O:496:THR:OG1	1.98	0.63
1:A:425:ARG:NH2	1:D:287:ASP:OD2	2.32	0.63
1:J:127:PHE:HE1	1:J:184:LEU:HG	1.64	0.63
1:M:279:ILE:CD1	1:P:424:ASN:HB2	2.28	0.63
1:C:581:ASN:N	1:C:581:ASN:OD1	2.29	0.63
1:M:59:ARG:CZ	1:M:81:ALA:HB3	2.29	0.63
1:M:645:ARG:NH1	1:M:646:HIS:O	2.30	0.63
1:F:400:THR:HG23	1:F:404:ARG:HD2	1.78	0.63
1:D:336:ARG:NH2	1:D:338:GLU:OE2	2.31	0.63
1:H:736:ALA:O	1:H:737:ILE:HG22	1.99	0.63
1:E:487:GLU:HG2	1:E:491:ALA:HB2	1.81	0.63
1:E:402:CYS:HB3	1:E:407:LEU:HB2	1.81	0.63
1:P:356:ARG:HH11	1:P:356:ARG:CG	2.12	0.63
1:F:856:TYR:CB	1:F:864:MET:HE2	2.23	0.63
1:H:36:TRP:CD2	1:H:42:ALA:HB2	2.34	0.63
1:E:66:PRO:HB3	1:E:187:MET:HE1	1.81	0.63
1:K:10:VAL:HG21	1:K:153:TRP:HZ2	1.63	0.63
1:H:129:VAL:HG21	1:H:177:LEU:HD12	1.80	0.63
1:P:670:LEU:HD22	1:P:678:GLN:OE1	1.97	0.63
1:K:599:ARG:HD2	1:K:600:GLN:OE1	1.98	0.63
1:G:427:THR:HA	1:G:436:MET:CE	2.28	0.63
1:I:578:TYR:HA	1:I:583:ASN:O	1.99	0.63
1:P:485:GLN:HA	1:P:496:THR:OG1	1.99	0.63
1:F:604:ASN:ND2	3:F:1260:HOH:O	2.29	0.63
1:K:412:GLU:HG3	1:K:457:SER:HB3	1.81	0.63
1:H:888:LEU:O	1:H:981:GLY:HA3	1.98	0.63
1:G:991:MET:HG3	1:G:992:GLY:N	2.12	0.63
1:F:916:ASP:OD1	1:F:917:ARG:N	2.29	0.63
1:O:429:ASP:OD1	1:O:431:ARG:HD3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:155:ASN:HB3	1:N:178:ARG:NH2	2.13	0.63
1:N:62:TRP:CZ2	1:N:119:PRO:HB3	2.33	0.63
1:P:44:THR:OG1	1:P:46:ARG:HG2	1.98	0.63
1:F:719:GLN:NE2	1:F:914:CYS:HB2	2.14	0.63
1:E:18:ASN:HB3	1:E:21:VAL:HG23	1.81	0.63
1:P:503:TYR:N	1:P:537:GLU:O	2.30	0.63
1:P:898:LEU:O	1:P:941:THR:HG22	1.99	0.63
1:K:499:ILE:O	1:K:533:LEU:HD13	1.98	0.63
1:H:357:HIS:HE1	1:H:568:TRP:HH2	1.46	0.63
1:P:86:VAL:HG21	1:P:123:TYR:HE2	1.64	0.63
1:M:367:MET:HB3	1:M:372:MET:HE3	1.80	0.63
1:E:906:TYR:HB3	1:E:907:PRO:CD	2.27	0.63
1:E:5:ASP:N	1:E:5:ASP:OD1	2.30	0.63
1:K:485:GLN:NE2	3:K:1250:HOH:O	2.30	0.63
1:O:438:GLU:O	1:O:442:ARG:HG3	1.98	0.63
1:L:622:HIS:O	1:L:625:GLN:HG2	1.97	0.63
1:N:696:LEU:HD12	1:N:697:THR:H	1.62	0.63
1:L:84:VAL:HG12	1:L:85:VAL:N	2.14	0.63
1:D:37:ARG:NH2	1:D:218:PRO:HD3	2.14	0.63
1:N:471:LEU:O	1:N:475:ILE:HG13	1.99	0.63
1:B:211:ASP:OD1	1:B:211:ASP:N	2.29	0.63
1:O:190:ARG:NH2	1:O:204:ARG:O	2.30	0.63
1:J:738:PRO:HG2	1:J:834:VAL:HG23	1.80	0.63
1:H:24:LEU:HB2	1:H:161:TYR:HB3	1.79	0.62
1:O:377:LEU:CD2	1:O:708:TRP:HA	2.27	0.62
1:J:776:LEU:N	1:J:776:LEU:HD23	2.14	0.62
1:B:920:LEU:HB3	1:B:921:PRO:HD2	1.80	0.62
1:M:975:LEU:HD23	1:M:975:LEU:N	2.14	0.62
1:M:786:ARG:HA	1:M:964:GLN:OE1	1.99	0.62
1:C:830:LEU:HB3	1:D:828:ASP:OD2	1.99	0.62
1:E:129:VAL:CG2	1:E:182:ASN:HD22	2.12	0.62
1:L:252:ASP:O	1:L:255:ARG:NH1	2.29	0.62
1:L:14:ARG:HG2	1:L:16:TRP:CZ2	2.33	0.62
1:P:849:LEU:HD23	1:P:849:LEU:N	2.13	0.62
1:G:778:THR:HB	1:G:887:GLN:H	1.64	0.62
1:L:287:ASP:N	1:L:287:ASP:OD1	2.29	0.62
1:D:660:GLY:O	1:D:662:PRO:HD3	1.98	0.62
1:A:557:ARG:NH2	1:A:628:GLN:NE2	2.47	0.62
1:G:897:TRP:CH2	1:G:918:TRP:HB2	2.34	0.62
1:A:824:GLN:O	1:A:838:THR:HA	1.99	0.62
1:D:237:ARG:HD3	1:D:296:GLU:HG2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:63:PHE:HB3	1:M:64:PRO:HD2	1.81	0.62
1:M:960:SER:N	3:M:1250:HOH:O	2.32	0.62
1:E:893:GLU:OE1	1:E:893:GLU:HA	1.98	0.62
1:E:601:PHE:CZ	1:E:795:VAL:HG12	2.34	0.62
1:M:653:HIS:CD2	1:M:667:GLU:HB3	2.34	0.62
1:B:40:GLU:HG3	1:B:43:ARG:NH1	2.14	0.62
1:H:251:ARG:HB3	1:H:253:TYR:HE1	1.59	0.62
1:M:971:SER:OG	1:M:972:HIS:ND1	2.29	0.62
1:O:654:TRP:NE1	1:O:666:GLY:HA3	2.13	0.62
1:B:210:ARG:NH1	1:B:395:HIS:HA	2.14	0.62
1:E:195:SER:O	1:E:198:GLU:N	2.31	0.62
1:B:719:GLN:N	3:B:1248:HOH:O	2.32	0.62
1:B:974:HIS:C	1:B:975:LEU:HD23	2.19	0.62
1:N:57:GLU:HB3	1:N:83:THR:CG2	2.28	0.62
1:F:255:ARG:N	1:F:316:HIS:O	2.30	0.62
1:K:412:GLU:HG3	1:K:457:SER:CB	2.28	0.62
1:F:210:ARG:HH12	1:F:394:ASN:C	2.02	0.62
1:O:274:PHE:HB3	1:O:286:ALA:O	1.98	0.62
1:L:753:ASN:N	1:L:753:ASN:OD1	2.29	0.62
1:O:218:PRO:O	1:O:221:GLN:NE2	2.30	0.62
1:I:746:ASP:CA	1:I:760:ARG:HG3	2.21	0.62
1:E:542:MET:HE3	1:E:601:PHE:HA	1.82	0.62
1:M:928:PRO:O	1:M:929:TYR:C	2.35	0.62
1:F:653:HIS:O	1:F:698:VAL:HA	1.99	0.62
1:H:79:PRO:CD	1:H:80:GLU:H	2.13	0.62
1:F:894:ARG:NH1	1:F:919:ASP:O	2.32	0.62
1:M:856:TYR:CD2	1:M:864:MET:HE2	2.33	0.62
1:C:91:GLN:NE2	1:C:96:ASP:OD1	2.32	0.62
1:H:902:PRO:HD3	1:H:918:TRP:CZ2	2.34	0.62
1:D:237:ARG:CD	1:D:296:GLU:HG2	2.29	0.62
1:J:505:ARG:HG3	1:J:510:GLN:NE2	2.14	0.62
1:J:23:GLN:O	1:J:24:LEU:HD13	1.99	0.62
1:B:382:ASN:ND2	1:B:617:LEU:HD21	2.14	0.62
1:G:753:ASN:OD1	1:G:753:ASN:N	2.28	0.62
1:F:282:ARG:HG3	1:G:423:MET:HG3	1.81	0.62
1:P:778:THR:HG23	1:P:779:PRO:HD2	1.81	0.62
1:E:52:ARG:O	1:E:214:LEU:N	2.32	0.62
1:M:386:ALA:CB	1:M:408:TYR:HB2	2.29	0.62
1:F:1020:TRP:HD1	1:F:1021:CYS:N	1.97	0.62
1:A:948:PRO:HG2	1:A:949:HIS:CE1	2.35	0.62
1:M:890:GLN:O	1:M:891:VAL:HG23	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:57:GLU:OE1	1:P:83:THR:HG21	1.99	0.62
1:L:147:ASN:HA	1:L:165:SER:HB3	1.82	0.62
1:L:814:GLY:O	1:L:815:HIS:C	2.37	0.62
1:N:334:GLU:OE1	1:N:336:ARG:NH1	2.32	0.62
1:N:429:ASP:OD2	1:N:431:ARG:NH2	2.32	0.62
1:G:383:ASN:HD22	1:G:625:GLN:HA	1.63	0.62
1:P:870:VAL:HG12	1:P:871:GLU:N	2.15	0.62
1:F:422:PRO:HG3	1:G:284:GLY:HA2	1.81	0.62
1:O:14:ARG:NH1	1:O:16:TRP:HZ2	1.96	0.62
1:D:429:ASP:OD1	1:D:431:ARG:N	2.30	0.62
1:J:30:HIS:ND1	1:J:31:PRO:O	2.29	0.62
1:N:134:LEU:N	1:N:134:LEU:HD23	2.13	0.62
1:H:139:THR:O	1:H:173:LEU:N	2.29	0.62
1:E:601:PHE:CE2	1:E:795:VAL:HG12	2.34	0.62
1:M:102:ASN:HD22	1:M:201:ASP:CG	2.03	0.62
1:F:651:LEU:HD12	1:F:668:VAL:O	2.00	0.62
1:H:708:TRP:CE3	1:H:709:SER:HB3	2.35	0.62
1:E:139:THR:HG21	1:E:177:LEU:CD1	2.29	0.62
1:N:784:PHE:HA	1:N:881:ARG:O	1.98	0.62
1:N:881:ARG:NH1	1:N:987:ASP:OD2	2.28	0.62
1:A:73:TRP:O	1:A:183:ARG:NH1	2.30	0.62
1:D:783:GLN:NE2	3:D:1287:HOH:O	2.29	0.62
1:G:658:LEU:O	1:G:659:ASP:C	2.38	0.62
1:J:333:ARG:NH1	1:J:451:PRO:O	2.32	0.62
1:N:917:ARG:NH2	1:N:943:GLU:OE2	2.31	0.62
1:M:108:THR:HG22	1:M:109:VAL:N	2.14	0.62
1:C:905:ASN:HB2	1:C:910:LEU:HB3	1.80	0.62
1:I:189:LEU:HD23	1:I:189:LEU:N	2.14	0.62
1:P:923:SER:O	1:P:925:MET:N	2.33	0.62
1:M:10:VAL:HB	1:M:11:LEU:HD23	1.81	0.62
1:P:310:ARG:HG3	1:P:328:CYS:O	1.99	0.62
1:M:353:GLY:O	1:M:566:PHE:HA	1.98	0.62
1:F:38:ASN:HD21	1:F:41:GLU:H	1.48	0.62
1:H:187:MET:HE2	1:H:189:LEU:HD21	1.81	0.62
1:K:946:TYR:CE2	1:K:982:THR:HG21	2.34	0.62
1:P:645:ARG:NH1	1:P:646:HIS:O	2.32	0.62
1:E:789:LEU:CD1	1:E:993:ILE:HG22	2.29	0.62
1:K:959:ILE:HD12	1:K:984:LEU:CD1	2.29	0.62
1:J:367:MET:HB3	1:J:372:MET:HE2	1.82	0.62
1:C:334:GLU:OE1	1:C:336:ARG:NH1	2.31	0.62
1:F:759:ASN:OD1	1:F:761:GLN:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:36:TRP:CG	1:N:42:ALA:HB2	2.34	0.62
1:E:424:ASN:HB2	1:H:279:ILE:HD11	1.82	0.62
1:G:229:THR:C	1:G:230:ARG:HG3	2.20	0.62
1:B:133:TRP:C	1:B:134:LEU:HD23	2.20	0.62
1:D:427:THR:CA	1:D:436:MET:HE1	2.23	0.62
1:H:246:MET:HG2	1:H:274:PHE:CZ	2.34	0.62
1:K:259:SER:HA	1:K:268:ALA:O	2.00	0.62
1:L:129:VAL:HG21	1:L:177:LEU:CD1	2.30	0.62
1:G:6:SER:O	1:G:7:LEU:C	2.37	0.62
1:P:658:LEU:O	1:P:661:LYS:N	2.30	0.62
1:G:698:VAL:HG22	1:G:720:TRP:CZ3	2.35	0.62
1:F:130:ASP:OD1	1:F:132:SER:N	2.32	0.62
1:C:881:ARG:HD3	1:C:987:ASP:OD1	2.00	0.62
1:E:833:ALA:HB1	1:E:858:ILE:O	2.00	0.62
1:A:759:ASN:OD1	1:A:761:GLN:N	2.28	0.62
1:A:262:GLN:HE22	1:A:299:LYS:HD2	1.64	0.62
1:K:272:ALA:HB1	1:K:273:PRO:HD2	1.81	0.62
1:D:561:ARG:HB2	3:D:1212:HOH:O	1.99	0.62
1:D:427:THR:HG22	1:D:436:MET:CE	2.30	0.62
1:P:572:ASP:HB3	1:P:603:MET:CG	2.30	0.62
1:I:395:HIS:CE1	1:I:397:LEU:HB3	2.35	0.62
1:E:63:PHE:CB	1:E:64:PRO:HD2	2.26	0.62
1:B:892:ALA:HB3	1:B:946:TYR:CD1	2.35	0.62
1:M:550:ALA:HA	1:M:623:GLN:OE1	1.99	0.62
1:H:60:PHE:HB3	1:H:84:VAL:CG2	2.30	0.62
1:N:147:ASN:HA	1:N:165:SER:HB3	1.82	0.62
1:G:656:VAL:HB	1:G:664:ALA:HB3	1.82	0.62
1:I:285:TYR:CG	1:I:288:ARG:HD2	2.35	0.62
1:M:334:GLU:OE2	1:M:336:ARG:HD3	2.00	0.62
1:A:100:TYR:CE1	1:A:602:CYS:HB3	2.35	0.62
1:G:133:TRP:C	1:G:134:LEU:HD23	2.20	0.62
1:N:600:GLN:NE2	1:N:790:ASP:OD1	2.32	0.62
1:K:441:THR:HG22	1:K:474:TRP:CZ2	2.34	0.62
1:L:192:SER:O	1:L:195:SER:HB2	1.99	0.62
1:G:249:GLU:OE1	1:G:251:ARG:NH2	2.33	0.62
1:C:438:GLU:O	1:C:442:ARG:HG3	2.00	0.62
1:M:451:PRO:O	1:M:452:SER:C	2.37	0.62
1:N:180:GLY:O	1:N:182:ASN:ND2	2.32	0.62
1:B:134:LEU:HD23	1:B:134:LEU:N	2.14	0.62
1:M:627:PHE:O	1:M:628:GLN:NE2	2.33	0.62
1:L:347:LYS:HB2	1:L:643:LEU:HD13	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:595:THR:HG23	1:J:596:PRO:HA	1.82	0.62
1:O:792:ASP:O	1:O:807:VAL:HG12	2.00	0.62
1:E:672:VAL:HG13	1:E:678:GLN:HB2	1.81	0.62
1:G:200:GLN:HG2	1:G:391:HIS:HB2	1.81	0.62
1:D:440:VAL:O	1:D:444:VAL:HG23	2.00	0.62
1:B:893:GLU:OE1	1:B:893:GLU:HA	2.00	0.62
1:D:368:ASP:OD1	1:D:370:GLN:HB2	1.99	0.62
1:E:627:PHE:C	1:E:628:GLN:HG2	2.20	0.62
1:N:767:GLN:OE1	1:N:768:MET:N	2.30	0.62
1:H:59:ARG:CZ	1:H:81:ALA:HB3	2.30	0.62
1:J:59:ARG:HA	1:J:82:ASP:O	1.99	0.62
1:P:35:SER:O	1:P:36:TRP:C	2.38	0.62
1:H:719:GLN:N	3:H:1248:HOH:O	2.31	0.62
1:M:422:PRO:HB3	1:P:280:ASP:OD1	1.99	0.62
1:P:285:TYR:HB3	1:P:288:ARG:HB2	1.82	0.62
1:P:742:THR:CG2	1:P:743:SER:H	2.09	0.62
1:K:202:MET:CE	1:K:357:HIS:HD2	2.13	0.62
1:M:974:HIS:C	1:M:975:LEU:HD23	2.19	0.62
1:B:460:ASN:ND2	1:B:461:GLU:HG2	2.14	0.62
1:F:300:LEU:O	1:F:307:ASN:HB2	2.00	0.62
1:L:694:LEU:HD12	1:L:695:TRP:N	2.15	0.62
1:I:287:ASP:CG	1:L:425:ARG:HH22	2.03	0.62
1:G:73:TRP:O	1:G:183:ARG:NH1	2.30	0.62
1:B:655:MET:HG3	1:B:656:VAL:N	2.13	0.62
1:I:388:ARG:NH2	1:I:460:ASN:OD1	2.33	0.62
1:B:629:PHE:CD1	1:B:718:GLN:HB2	2.35	0.62
1:A:388:ARG:O	1:A:390:SER:N	2.33	0.62
1:D:859:ASP:OD1	1:D:861:SER:HB2	2.00	0.62
1:H:210:ARG:HH11	1:H:395:HIS:N	1.97	0.62
1:M:630:ARG:HB2	1:M:637:GLU:HB3	1.82	0.62
1:L:836:ILE:HG22	1:L:837:THR:N	2.15	0.62
1:M:749:ILE:CD1	1:M:834:VAL:HG11	2.30	0.62
1:J:246:MET:HG2	1:J:274:PHE:CE2	2.35	0.62
1:J:424:ASN:ND2	1:J:464:HIS:O	2.30	0.62
1:C:934:GLU:HG3	1:C:935:ASN:N	2.12	0.62
1:M:12:GLN:HG2	1:P:4:THR:HG21	1.82	0.62
1:P:257:THR:HA	1:P:270:GLY:O	2.00	0.62
1:H:467:ASN:O	1:H:471:LEU:HD12	1.99	0.62
1:P:544:ASN:HB3	1:P:789:LEU:CD2	2.30	0.62
1:H:37:ARG:HH11	1:H:37:ARG:HG3	1.64	0.62
1:O:202:MET:HE3	1:O:357:HIS:HD2	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:166:ARG:CG	1:C:392:TYR:HB2	2.30	0.62
1:H:60:PHE:HB3	1:H:84:VAL:HG21	1.81	0.62
1:O:822:LEU:HD12	1:O:824:GLN:N	2.15	0.62
1:K:141:ILE:HD13	1:K:143:PHE:CE1	2.35	0.62
1:B:373:VAL:HG12	1:B:377:LEU:CD1	2.30	0.62
1:J:578:TYR:HA	1:J:583:ASN:O	1.99	0.62
1:J:919:ASP:O	1:J:920:LEU:HD23	1.99	0.62
1:E:154:CYS:N	1:E:157:ARG:O	2.30	0.62
1:K:166:ARG:HG3	1:K:392:TYR:HB2	1.82	0.62
1:N:504:ALA:HB3	1:N:535:LEU:HD21	1.82	0.62
1:A:300:LEU:O	1:A:307:ASN:HB2	2.00	0.62
1:N:598:ASP:O	1:N:601:PHE:HB2	1.99	0.62
1:I:231:PHE:CD2	1:I:238:ALA:HB2	2.35	0.62
1:B:173:LEU:O	1:B:176:PHE:N	2.30	0.62
1:G:147:ASN:HB2	1:G:209:PHE:HE1	1.65	0.62
1:A:118:ASN:O	1:A:119:PRO:C	2.36	0.62
1:K:896:ASN:ND2	1:K:919:ASP:HB2	2.15	0.62
1:P:276:GLY:N	1:P:285:TYR:O	2.30	0.61
1:E:100:TYR:CZ	1:E:602:CYS:HB3	2.34	0.61
1:M:653:HIS:HD2	1:M:667:GLU:HB3	1.65	0.61
1:P:129:VAL:HG23	1:P:182:ASN:ND2	2.14	0.61
1:G:145:GLY:HA3	1:G:210:ARG:HG3	1.82	0.61
1:A:937:LEU:C	1:A:938:ARG:HG2	2.20	0.61
1:I:418:HIS:O	1:L:282:ARG:HD3	1.99	0.61
1:K:861:SER:HB3	1:K:863:GLN:HG3	1.81	0.61
1:I:474:TRP:CZ2	1:I:478:VAL:HG21	2.35	0.61
1:L:115:PRO:HG2	1:L:191:TRP:HD1	1.65	0.61
1:C:708:TRP:CE3	1:C:709:SER:HB3	2.34	0.61
1:K:778:THR:CG2	1:K:779:PRO:HD2	2.30	0.61
1:L:814:GLY:HA3	1:L:844:HIS:CD2	2.35	0.61
1:H:210:ARG:NH1	1:H:395:HIS:N	2.48	0.61
1:N:130:ASP:OD1	1:N:132:SER:N	2.29	0.61
1:B:934:GLU:HG3	1:B:935:ASN:N	2.12	0.61
1:I:315:LEU:O	1:I:323:ILE:HB	2.00	0.61
1:P:438:GLU:O	1:P:442:ARG:HG3	2.01	0.61
1:P:103:VAL:HG12	1:P:104:THR:N	2.15	0.61
1:L:427:THR:HA	1:L:436:MET:HE2	1.80	0.61
1:E:356:ARG:CG	1:E:356:ARG:HH11	2.13	0.61
1:A:251:ARG:HB3	1:A:253:TYR:HE1	1.63	0.61
1:E:703:PRO:O	1:E:711:ALA:HB1	1.99	0.61
1:N:14:ARG:NH1	1:N:16:TRP:HZ2	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:241:GLU:HG3	1:B:292:ARG:HG2	1.80	0.61
1:B:774:LYS:C	1:B:775:GLN:HE21	2.03	0.61
1:I:654:TRP:NE1	1:I:666:GLY:HA3	2.15	0.61
1:O:441:THR:HG22	1:O:474:TRP:CZ3	2.35	0.61
1:J:742:THR:HG22	1:J:743:SER:N	2.15	0.61
1:E:54:LEU:O	1:E:58:TRP:NE1	2.29	0.61
1:G:27:LEU:CD1	1:G:140:ARG:HD3	2.30	0.61
1:O:796:SER:OG	1:O:802:ASP:N	2.29	0.61
1:F:737:ILE:HD13	1:F:831:ALA:O	1.99	0.61
1:K:251:ARG:HB3	1:K:253:TYR:CE1	2.35	0.61
1:N:782:ASP:N	1:N:782:ASP:OD1	2.30	0.61
1:B:73:TRP:O	1:B:183:ARG:NH1	2.32	0.61
1:I:213:SER:O	1:I:214:LEU:HD23	2.00	0.61
1:P:173:LEU:HA	1:P:176:PHE:CD1	2.35	0.61
1:E:41:GLU:O	1:E:42:ALA:C	2.38	0.61
1:M:433:LEU:HB3	1:M:434:PRO:HD3	1.81	0.61
1:E:114:VAL:HG13	1:E:115:PRO:CD	2.28	0.61
1:M:894:ARG:HH21	1:M:921:PRO:HD3	1.64	0.61
1:P:648:ASP:OD1	1:P:648:ASP:N	2.33	0.61
1:B:7:LEU:HB2	1:B:71:GLU:OE2	2.00	0.61
1:L:103:VAL:HG12	1:L:104:THR:N	2.15	0.61
1:F:102:ASN:ND2	1:F:201:ASP:HB2	2.14	0.61
1:A:625:GLN:CD	1:A:716:ALA:HB1	2.21	0.61
1:O:84:VAL:HG12	1:O:85:VAL:N	2.15	0.61
1:N:78:LEU:HB3	1:N:79:PRO:HD2	1.82	0.61
1:A:440:VAL:HG11	1:A:475:ILE:HD11	1.82	0.61
1:A:78:LEU:HB3	1:A:79:PRO:HD2	1.81	0.61
1:K:50:GLN:NE2	1:K:50:GLN:N	2.48	0.61
1:I:307:ASN:O	1:I:308:LEU:HD23	2.00	0.61
1:O:340:GLY:O	1:O:341:LEU:HD23	2.01	0.61
1:F:768:MET:HG3	1:F:769:TRP:N	2.15	0.61
1:E:870:VAL:HG12	1:E:871:GLU:N	2.14	0.61
1:J:360:HIS:CE1	1:J:362:LEU:HB2	2.35	0.61
1:L:867:THR:HG22	3:L:1216:HOH:O	2.00	0.61
1:M:409:VAL:HG12	1:M:410:VAL:O	2.00	0.61
1:F:883:GLY:HA3	1:F:987:ASP:HA	1.82	0.61
1:F:251:ARG:HB3	1:F:253:TYR:CE1	2.35	0.61
1:M:6:SER:OG	1:M:9:VAL:N	2.29	0.61
1:P:3:ILE:HG12	1:P:4:THR:N	2.14	0.61
1:E:920:LEU:HB3	1:E:921:PRO:HD2	1.82	0.61
1:K:658:LEU:HD12	1:K:659:ASP:H	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:424:ASN:O	1:O:427:THR:N	2.32	0.61
1:K:139:THR:O	1:K:173:LEU:N	2.30	0.61
1:B:895:VAL:O	1:B:919:ASP:HA	2.00	0.61
1:M:358:GLU:HB3	1:M:367:MET:CG	2.30	0.61
1:M:246:MET:HG2	1:M:274:PHE:CE2	2.35	0.61
1:D:578:TYR:HA	1:D:583:ASN:O	1.99	0.61
1:B:372:MET:HG2	1:B:398:TRP:CE3	2.35	0.61
1:H:360:HIS:HB3	1:H:363:HIS:HB2	1.82	0.61
1:C:279:ILE:HD13	1:C:283:GLY:O	2.00	0.61
1:A:703:PRO:O	1:A:711:ALA:HB1	2.01	0.61
1:F:645:ARG:HH12	1:F:648:ASP:H	1.49	0.61
1:F:975:LEU:HD23	1:F:975:LEU:N	2.12	0.61
1:G:595:THR:HG23	1:G:596:PRO:HA	1.82	0.61
1:L:653:HIS:NE2	1:L:667:GLU:OE2	2.29	0.61
1:N:906:TYR:OH	1:N:935:ASN:HA	2.00	0.61
1:A:5:ASP:OD2	1:A:157:ARG:HG2	2.01	0.61
1:P:23:GLN:HB3	1:P:26:ARG:CZ	2.31	0.61
1:E:631:LEU:HD12	1:E:635:THR:O	2.01	0.61
1:L:578:TYR:HA	1:L:583:ASN:O	2.00	0.61
1:O:822:LEU:CD1	1:O:824:GLN:H	2.11	0.61
1:E:778:THR:CG2	1:E:887:GLN:H	2.13	0.61
1:D:928:PRO:HB2	1:D:973:ARG:HH11	1.65	0.61
1:L:115:PRO:HG2	1:L:191:TRP:CD1	2.35	0.61
1:A:571:VAL:HG12	1:A:609:ALA:HA	1.82	0.61
1:A:232:ASN:OD1	1:A:232:ASN:N	2.32	0.61
1:J:210:ARG:HH12	1:J:394:ASN:C	2.04	0.61
1:J:763:GLY:O	1:J:838:THR:HG21	2.00	0.61
1:M:844:HIS:O	1:M:845:GLN:C	2.38	0.61
1:D:189:LEU:HD23	1:D:189:LEU:N	2.15	0.61
1:P:893:GLU:HA	1:P:893:GLU:OE1	2.00	0.61
1:E:615:PRO:HA	1:E:903:GLN:OE1	2.01	0.61
1:M:775:GLN:O	1:M:776:LEU:HD23	2.00	0.61
1:M:166:ARG:CB	1:M:414:ASN:HD22	2.13	0.61
1:F:763:GLY:HA3	1:F:822:LEU:HD22	1.82	0.61
1:K:65:ALA:HB1	1:K:66:PRO:HD2	1.81	0.61
1:H:287:ASP:N	1:H:287:ASP:OD1	2.29	0.61
1:K:1020:TRP:HD1	1:K:1021:CYS:N	1.98	0.61
1:H:205:MET:HE1	1:H:364:GLY:CA	2.30	0.61
1:H:608:PHE:N	1:H:612:THR:O	2.25	0.61
1:L:59:ARG:HH21	1:L:81:ALA:C	2.03	0.61
1:K:651:LEU:HD12	1:K:668:VAL:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:210:ARG:HH11	1:B:395:HIS:HA	1.65	0.61
1:M:524:LEU:HD13	1:M:561:ARG:HB2	1.82	0.61
1:A:653:HIS:NE2	1:A:667:GLU:OE2	2.31	0.61
1:N:316:HIS:HB2	1:N:321:THR:O	2.01	0.61
1:M:740:LEU:HD12	1:M:748:CYS:O	2.00	0.61
1:C:409:VAL:HG12	1:C:410:VAL:N	2.15	0.61
1:F:1004:SER:HB2	1:F:1006:GLU:OE2	2.01	0.61
1:B:352:ARG:NH2	1:B:641:GLU:OE1	2.33	0.61
1:O:241:GLU:HG3	1:O:292:ARG:HG2	1.82	0.61
1:M:968:MET:O	1:M:968:MET:HG3	2.00	0.61
1:L:429:ASP:OD1	1:L:431:ARG:N	2.33	0.61
1:J:913:ALA:O	3:J:1252:HOH:O	2.16	0.61
1:J:917:ARG:NH2	1:J:943:GLU:OE2	2.33	0.61
1:A:946:TYR:CE2	1:A:982:THR:HG21	2.35	0.61
1:E:415:ILE:HD13	1:E:436:MET:HB3	1.82	0.61
1:M:227:VAL:HG13	1:M:240:LEU:CD1	2.27	0.61
1:P:106:PRO:HB2	1:P:191:TRP:CH2	2.36	0.61
1:E:123:TYR:CD1	1:E:208:ILE:HD12	2.35	0.61
1:E:3:ILE:O	1:E:9:VAL:HG21	2.01	0.61
1:P:946:TYR:HE2	1:P:982:THR:HG21	1.66	0.61
1:J:542:MET:CE	1:J:601:PHE:HA	2.29	0.61
1:K:382:ASN:CB	1:K:617:LEU:HD11	2.31	0.61
1:M:262:GLN:HB2	1:M:309:TYR:CE1	2.35	0.61
1:J:110:ASN:N	1:J:111:PRO:HD3	2.15	0.61
1:M:473:ARG:O	1:M:476:LYS:HB2	2.00	0.61
1:L:870:VAL:HG12	1:L:871:GLU:N	2.14	0.61
1:K:701:VAL:HA	1:K:713:HIS:O	2.00	0.61
1:B:382:ASN:OD1	1:B:617:LEU:HG	2.01	0.61
1:L:281:GLU:OE1	1:L:281:GLU:N	2.34	0.61
1:B:627:PHE:O	1:B:628:GLN:NE2	2.33	0.61
1:F:989:PHE:CE2	1:F:1014:TYR:HB3	2.35	0.61
1:A:682:LEU:HB3	1:A:683:PRO:HD2	1.83	0.61
1:E:693:GLN:HG2	1:E:721:ARG:CD	2.31	0.61
1:G:204:ARG:HD3	1:G:204:ARG:N	2.15	0.61
1:N:673:ALA:HB1	1:N:674:PRO:HD2	1.82	0.61
1:D:460:ASN:ND2	1:D:461:GLU:HG3	2.15	0.61
1:M:11:LEU:N	1:M:11:LEU:HD23	2.16	0.61
1:H:30:HIS:HB2	1:H:31:PRO:HD2	1.83	0.61
1:L:123:TYR:HD1	1:L:123:TYR:H	1.48	0.61
1:L:73:TRP:O	1:L:183:ARG:NH2	2.29	0.61
1:E:84:VAL:HG12	1:E:85:VAL:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:706:THR:N	1:M:709:SER:O	2.33	0.61
1:P:129:VAL:CG2	1:P:182:ASN:HD22	2.14	0.61
1:L:400:THR:O	1:L:404:ARG:HD2	1.99	0.61
1:C:7:LEU:N	1:C:71:GLU:OE2	2.34	0.61
1:I:652:LEU:O	1:I:668:VAL:N	2.29	0.61
1:I:246:MET:HB3	1:I:274:PHE:CZ	2.35	0.61
1:O:579:ASP:OD1	1:O:583:ASN:N	2.29	0.61
1:F:571:VAL:HG13	1:F:607:VAL:CG2	2.30	0.61
1:L:249:GLU:OE2	1:L:251:ARG:NH2	2.34	0.61
1:A:573:GLN:HB2	1:A:602:CYS:O	2.01	0.61
1:M:46:ARG:HB3	1:M:47:PRO:HD2	1.83	0.61
1:O:531:ARG:O	1:O:561:ARG:NH1	2.28	0.61
1:O:138:GLN:N	1:O:217:LYS:O	2.29	0.61
1:D:515:VAL:HB	3:D:1275:HOH:O	1.99	0.61
1:J:429:ASP:OD2	1:J:431:ARG:NH1	2.34	0.61
1:O:27:LEU:HD12	1:O:140:ARG:NH1	2.15	0.61
1:C:844:HIS:CE1	1:C:845:GLN:HG3	2.36	0.61
1:J:930:VAL:HA	1:J:973:ARG:HD3	1.81	0.61
1:E:41:GLU:O	1:E:44:THR:N	2.33	0.61
1:E:115:PRO:HG2	1:E:191:TRP:CD1	2.36	0.61
1:M:622:HIS:HB2	1:M:717:TRP:CZ2	2.35	0.61
1:K:696:LEU:HD12	1:K:697:THR:H	1.66	0.61
1:B:474:TRP:HZ2	1:C:430:PRO:HG3	1.66	0.61
1:L:656:VAL:N	1:L:664:ALA:O	2.29	0.61
1:D:433:LEU:O	1:D:437:SER:HB3	2.00	0.61
1:P:748:CYS:C	1:P:749:ILE:HD13	2.21	0.61
1:N:708:TRP:CE3	1:N:709:SER:HB3	2.35	0.61
1:K:572:ASP:OD1	1:K:603:MET:HB3	2.01	0.61
1:L:492:ASP:HB3	1:L:499:ILE:HG23	1.82	0.61
1:H:625:GLN:CD	1:H:716:ALA:HB1	2.21	0.61
1:O:698:VAL:CG2	1:O:718:GLN:HB3	2.30	0.61
1:E:289:VAL:HG22	1:E:291:LEU:CD1	2.31	0.61
1:G:53:SER:C	1:G:54:LEU:HD23	2.20	0.61
1:I:232:ASN:ND2	1:I:234:ASP:OD1	2.33	0.61
1:P:30:HIS:HB2	1:P:31:PRO:HD2	1.82	0.61
1:I:129:VAL:HG23	1:I:182:ASN:HD22	1.66	0.61
1:F:1009:LEU:HD23	1:F:1009:LEU:N	2.16	0.61
1:O:484:VAL:O	1:O:497:ASP:N	2.27	0.61
1:H:654:TRP:NE1	1:H:666:GLY:HA3	2.16	0.61
1:J:388:ARG:NH1	1:J:536:CYS:HB2	2.15	0.61
1:I:44:THR:O	1:I:46:ARG:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:579:ASP:OD1	1:K:583:ASN:N	2.31	0.61
1:P:746:ASP:HA	1:P:760:ARG:HG3	1.82	0.61
1:G:227:VAL:HG12	1:G:228:ALA:N	2.15	0.61
1:M:129:VAL:HG12	1:M:130:ASP:N	2.16	0.61
1:P:636:ILE:N	1:P:680:ILE:O	2.31	0.61
1:G:427:THR:HA	1:G:436:MET:HE2	1.83	0.61
1:G:907:PRO:HA	1:G:910:LEU:CD2	2.31	0.61
1:O:654:TRP:CZ2	1:O:666:GLY:HA3	2.36	0.61
1:E:796:SER:HB2	1:E:802:ASP:H	1.66	0.61
1:F:571:VAL:CG1	1:F:607:VAL:HG23	2.31	0.61
1:E:789:LEU:O	1:E:792:ASP:HB2	2.01	0.61
1:G:322:LEU:HD23	1:G:324:GLU:N	2.16	0.61
1:C:210:ARG:HH12	1:C:395:HIS:N	1.98	0.61
1:N:178:ARG:NH1	1:N:181:GLU:O	2.29	0.61
1:K:896:ASN:HD22	1:K:919:ASP:HB2	1.65	0.61
1:I:836:ILE:N	1:I:836:ILE:HD13	2.16	0.61
1:N:474:TRP:CE2	1:N:478:VAL:HG21	2.36	0.61
1:G:850:PHE:CD1	1:G:872:VAL:HG13	2.36	0.61
1:D:638:VAL:O	1:D:677:LYS:HA	2.01	0.61
1:O:465:GLY:O	1:O:468:HIS:HB2	2.00	0.61
1:L:420:MET:CE	1:L:426:LEU:HD11	2.31	0.61
1:H:750:GLU:HG3	1:H:755:ARG:HG2	1.82	0.61
1:P:105:TYR:CE1	1:P:199:ASP:HB2	2.35	0.61
1:P:36:TRP:CD2	1:P:42:ALA:HB2	2.36	0.60
1:H:310:ARG:HG3	1:H:328:CYS:O	2.01	0.60
1:K:761:GLN:O	1:K:822:LEU:HD23	2.01	0.60
1:P:742:THR:HG22	1:P:743:SER:N	2.10	0.60
1:E:73:TRP:O	1:E:183:ARG:NH1	2.30	0.60
1:D:43:ARG:HH22	1:D:264:GLU:HG2	1.66	0.60
1:E:378:LEU:HB3	1:E:570:TRP:CH2	2.36	0.60
1:D:928:PRO:HB2	1:D:973:ARG:NH1	2.15	0.60
1:N:937:LEU:O	1:N:938:ARG:HG2	2.01	0.60
1:M:759:ASN:OD1	1:M:761:GLN:HB2	2.01	0.60
1:L:500:CYS:HB2	1:L:536:CYS:HB3	1.84	0.60
1:H:749:ILE:CD1	1:H:834:VAL:HG11	2.31	0.60
1:I:77:ASP:C	1:I:78:LEU:HD23	2.21	0.60
1:E:638:VAL:O	1:E:678:GLN:N	2.32	0.60
1:M:454:ILE:HG13	1:M:455:ILE:HG13	1.82	0.60
1:H:438:GLU:O	1:H:442:ARG:HG3	2.00	0.60
1:F:753:ASN:OD1	1:F:753:ASN:N	2.29	0.60
1:J:38:ASN:HB3	1:J:41:GLU:OE1	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:645:ARG:NH2	1:C:650:GLU:OE2	2.34	0.60
1:K:218:PRO:CG	1:K:324:GLU:HG3	2.31	0.60
1:E:34:ALA:HA	1:E:51:LEU:CD2	2.31	0.60
1:L:701:VAL:HG22	1:L:714:ILE:HD13	1.83	0.60
1:L:440:VAL:HG11	1:L:475:ILE:HD11	1.83	0.60
1:E:668:VAL:CG1	1:E:669:PRO:HD2	2.29	0.60
1:E:581:ASN:HB2	1:E:583:ASN:ND2	2.16	0.60
1:M:258:VAL:HA	1:M:312:VAL:O	2.01	0.60
1:N:777:LEU:CD2	1:N:889:ALA:HB2	2.32	0.60
1:H:672:VAL:CG1	1:H:678:GLN:HB2	2.31	0.60
1:H:360:HIS:CG	1:H:361:PRO:HD2	2.35	0.60
1:P:579:ASP:OD1	1:P:583:ASN:HB2	2.01	0.60
1:M:702:GLN:O	1:M:712:GLY:N	2.34	0.60
1:M:499:ILE:HG22	1:M:501:PRO:HD3	1.83	0.60
1:I:553:TRP:O	1:I:557:ARG:HG3	2.00	0.60
1:A:893:GLU:HA	1:A:893:GLU:OE1	2.01	0.60
1:C:668:VAL:HG11	1:C:680:ILE:HD13	1.83	0.60
1:O:851:ILE:HD11	1:P:728:VAL:HG12	1.83	0.60
1:I:131:GLU:O	1:I:134:LEU:N	2.28	0.60
1:P:376:ILE:HA	1:P:379:MET:HG3	1.83	0.60
1:M:416:GLU:OE2	1:M:418:HIS:HB2	2.02	0.60
1:N:763:GLY:HA3	1:N:822:LEU:HD22	1.83	0.60
1:H:102:ASN:OD1	1:H:103:VAL:HG23	2.01	0.60
1:J:66:PRO:HB3	1:J:187:MET:HE3	1.83	0.60
1:H:91:GLN:HG2	1:H:190:ARG:HH21	1.66	0.60
1:E:371:THR:O	1:E:374:GLN:HB3	2.01	0.60
1:P:332:PHE:N	3:P:1212:HOH:O	2.29	0.60
1:A:599:ARG:HD2	1:A:600:GLN:OE1	2.01	0.60
1:H:3:ILE:O	1:H:9:VAL:HG21	2.01	0.60
1:O:132:SER:OG	1:O:133:TRP:N	2.31	0.60
1:E:217:LYS:HD3	1:E:324:GLU:OE1	2.02	0.60
1:N:685:LEU:HB3	1:N:686:PRO:HD2	1.82	0.60
1:I:927:THR:HG21	1:I:929:TYR:CZ	2.35	0.60
1:I:142:ILE:HG23	1:I:170:GLU:HG2	1.83	0.60
1:P:548:GLY:O	1:P:549:PHE:C	2.40	0.60
1:P:960:SER:OG	1:P:961:ARG:N	2.34	0.60
1:N:801:ILE:O	1:N:803:PRO:HD3	2.01	0.60
1:N:759:ASN:OD1	1:N:761:GLN:N	2.33	0.60
1:F:788:PRO:HD2	1:F:968:MET:HB2	1.81	0.60
1:F:30:HIS:HB2	1:F:31:PRO:HD2	1.84	0.60
1:P:17:GLU:OE1	1:P:113:PHE:HA	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:166:ARG:HB2	1:E:414:ASN:ND2	2.16	0.60
1:M:439:ARG:HH11	1:M:439:ARG:CG	2.15	0.60
1:E:114:VAL:HG22	1:E:191:TRP:HB3	1.83	0.60
1:H:14:ARG:NH1	1:H:14:ARG:HG2	2.16	0.60
1:E:920:LEU:HD12	1:E:925:MET:SD	2.41	0.60
1:J:60:PHE:HB3	1:J:84:VAL:CG2	2.31	0.60
1:C:37:ARG:NH2	1:C:218:PRO:HD3	2.17	0.60
1:M:995:GLY:N	1:M:1002:SER:OG	2.31	0.60
1:G:188:VAL:C	1:G:189:LEU:HD23	2.22	0.60
1:J:166:ARG:HG2	1:J:392:TYR:CB	2.31	0.60
1:L:876:THR:OG1	1:L:877:PRO:HD2	2.01	0.60
1:B:653:HIS:HD2	1:B:667:GLU:HG2	1.67	0.60
1:H:257:THR:HA	1:H:270:GLY:O	2.01	0.60
1:N:137:GLY:HA2	1:N:219:THR:HG23	1.84	0.60
1:B:697:THR:OG1	1:B:719:GLN:NE2	2.33	0.60
1:F:422:PRO:HG3	1:G:284:GLY:CA	2.30	0.60
1:H:336:ARG:NH2	1:H:338:GLU:OE1	2.30	0.60
1:C:930:VAL:HA	1:C:973:ARG:HD3	1.83	0.60
1:A:632:SER:O	1:A:635:THR:HB	2.00	0.60
1:E:142:ILE:HG23	1:E:170:GLU:HG2	1.84	0.60
1:L:130:ASP:O	1:L:133:TRP:HB2	2.01	0.60
1:D:542:MET:HE3	1:D:601:PHE:HA	1.82	0.60
1:M:456:TRP:HZ2	1:M:482:ARG:NH1	1.98	0.60
1:E:599:ARG:NE	1:E:797:GLU:OE2	2.30	0.60
1:K:360:HIS:ND1	1:K:362:LEU:N	2.45	0.60
1:H:84:VAL:HG12	1:H:85:VAL:N	2.16	0.60
1:D:254:LEU:O	1:D:255:ARG:HD3	2.01	0.60
1:L:910:LEU:HD12	1:L:910:LEU:O	2.01	0.60
1:P:78:LEU:HB3	1:P:79:PRO:HD2	1.82	0.60
1:D:354:VAL:HG11	1:D:379:MET:HE2	1.83	0.60
1:H:240:LEU:HD12	1:H:241:GLU:H	1.64	0.60
1:E:930:VAL:O	1:E:932:PRO:HD3	2.01	0.60
1:N:777:LEU:CG	1:N:889:ALA:HB2	2.31	0.60
1:H:456:TRP:HE1	1:H:482:ARG:HD2	1.65	0.60
1:N:262:GLN:HE22	1:N:299:LYS:HD3	1.65	0.60
1:G:897:TRP:CZ3	1:G:918:TRP:HB2	2.36	0.60
1:K:706:THR:OG1	1:K:709:SER:N	2.29	0.60
1:C:52:ARG:NH2	1:C:128:ASN:O	2.32	0.60
1:P:639:THR:OG1	1:P:677:LYS:HE2	2.01	0.60
1:M:917:ARG:NH2	1:M:943:GLU:OE2	2.34	0.60
1:E:224:ASP:OD1	1:E:225:PHE:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:271:THR:HG22	1:O:272:ALA:N	2.16	0.60
1:I:549:PHE:CE2	1:I:620:ALA:HA	2.37	0.60
1:A:768:MET:O	1:A:768:MET:HG3	1.98	0.60
1:C:748:CYS:C	1:C:749:ILE:HD13	2.21	0.60
1:P:260:LEU:N	1:P:268:ALA:O	2.33	0.60
1:M:540:HIS:CE1	1:M:999:TRP:HZ3	2.19	0.60
1:P:708:TRP:CZ3	1:P:709:SER:HB3	2.36	0.60
1:M:502:MET:HB2	1:M:537:GLU:CB	2.25	0.60
1:H:34:ALA:HB3	1:H:36:TRP:CE3	2.37	0.60
1:K:437:SER:HA	1:K:471:LEU:HD21	1.84	0.60
1:D:14:ARG:NH1	1:D:16:TRP:HZ2	1.99	0.60
1:D:100:TYR:O	1:D:597:ASN:HA	2.01	0.60
1:H:152:LEU:HG	1:H:153:TRP:N	2.16	0.60
1:I:678:GLN:O	1:I:679:LEU:HD23	2.02	0.60
1:F:589:GLY:HA3	1:F:599:ARG:HA	1.84	0.60
1:K:749:ILE:HD13	1:K:834:VAL:HG21	1.84	0.60
1:J:797:GLU:N	1:J:800:ARG:O	2.33	0.60
1:L:544:ASN:OD1	1:L:909:ARG:NH1	2.34	0.60
1:D:749:ILE:HD12	1:D:834:VAL:HG11	1.84	0.60
1:K:200:GLN:HG2	1:K:391:HIS:HB2	1.83	0.60
1:O:847:LYS:HG3	1:O:848:THR:N	2.15	0.60
1:I:439:ARG:HG2	1:I:439:ARG:HH11	1.67	0.60
1:A:533:LEU:C	1:A:533:LEU:HD12	2.22	0.60
1:L:897:TRP:HD1	1:L:941:THR:CG2	2.15	0.60
1:D:141:ILE:HG12	1:D:213:SER:O	2.02	0.60
1:D:52:ARG:NH2	1:D:128:ASN:O	2.30	0.60
1:A:695:TRP:CE2	1:A:721:ARG:HG3	2.36	0.60
1:E:770:ILE:HD12	1:E:775:GLN:CD	2.22	0.60
1:D:319:ASP:OD1	1:D:319:ASP:N	2.29	0.60
1:H:673:ALA:HB1	1:H:674:PRO:HD2	1.84	0.60
1:C:389:CYS:HB3	1:C:394:ASN:ND2	2.17	0.60
1:D:730:LEU:HD23	1:D:730:LEU:N	2.14	0.60
1:P:59:ARG:NH2	1:P:81:ALA:O	2.35	0.60
1:H:851:ILE:O	1:H:870:VAL:HA	2.01	0.60
1:P:138:GLN:N	1:P:217:LYS:O	2.29	0.60
1:M:149:ALA:O	1:M:150:PHE:HB3	2.02	0.60
1:P:601:PHE:CE2	1:P:795:VAL:HG12	2.37	0.60
1:N:232:ASN:ND2	1:N:236:SER:HB2	2.08	0.60
1:M:559:TYR:CB	1:M:562:LEU:HD12	2.29	0.60
1:K:949:HIS:CD2	1:K:1020:TRP:HE1	2.12	0.60
1:F:40:GLU:CG	1:F:43:ARG:HH12	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:127:PHE:O	1:E:182:ASN:N	2.30	0.60
1:E:767:GLN:HG3	1:E:768:MET:N	2.15	0.60
1:D:949:HIS:CD2	1:D:1020:TRP:HE1	2.19	0.60
1:K:110:ASN:O	1:K:113:PHE:HB2	2.01	0.60
1:E:869:ASP:OD1	1:E:1015:HIS:ND1	2.35	0.60
1:P:446:ARG:O	1:P:446:ARG:HG2	2.02	0.60
1:K:736:ALA:O	1:K:737:ILE:HG22	2.02	0.60
1:D:1011:ALA:HB3	1:D:1014:TYR:CZ	2.37	0.60
1:P:173:LEU:HA	1:P:176:PHE:HD1	1.67	0.60
1:P:701:VAL:HG12	1:P:712:GLY:HA2	1.82	0.60
1:P:261:TRP:CE3	1:P:266:GLN:HA	2.37	0.60
1:D:906:TYR:HB3	1:D:907:PRO:CD	2.32	0.60
1:G:970:THR:CG2	1:G:975:LEU:HB2	2.32	0.60
1:C:658:LEU:O	1:C:659:ASP:C	2.39	0.60
1:K:894:ARG:NH2	1:K:921:PRO:HD3	2.17	0.60
1:D:141:ILE:HG13	1:D:214:LEU:CD2	2.32	0.60
1:N:890:GLN:HG3	1:N:891:VAL:N	2.17	0.60
1:O:230:ARG:O	1:O:238:ALA:HA	2.02	0.60
1:B:784:PHE:HA	1:B:881:ARG:O	2.02	0.60
1:A:37:ARG:NH2	1:A:218:PRO:HD3	2.16	0.60
1:F:232:ASN:ND2	1:F:236:SER:OG	2.35	0.60
1:D:316:HIS:HA	1:D:323:ILE:HD12	1.83	0.60
1:E:418:HIS:O	1:H:282:ARG:HD3	2.02	0.60
1:E:502:MET:HB2	1:E:537:GLU:HB2	1.83	0.60
1:E:304:GLU:HB3	1:E:645:ARG:HG2	1.84	0.60
1:P:353:GLY:O	1:P:566:PHE:HA	2.01	0.60
1:G:597:ASN:ND2	1:G:599:ARG:H	1.99	0.60
1:L:444:VAL:O	1:L:448:ARG:HB3	2.01	0.60
1:B:7:LEU:O	1:B:11:LEU:HG	2.02	0.60
1:H:588:TYR:O	1:H:589:GLY:C	2.39	0.60
1:K:18:ASN:CG	1:K:21:VAL:HG23	2.22	0.60
1:F:308:LEU:HD13	1:F:329:ASP:HB3	1.84	0.60
1:I:37:ARG:HH21	1:I:218:PRO:HD3	1.66	0.60
1:P:456:TRP:CZ2	1:P:482:ARG:HD2	2.36	0.60
1:O:35:SER:N	1:O:326:GLU:OE2	2.34	0.60
1:C:749:ILE:HD13	1:C:749:ILE:N	2.17	0.60
1:G:433:LEU:HB3	1:G:434:PRO:HD3	1.82	0.60
1:I:870:VAL:HG12	1:I:871:GLU:N	2.17	0.60
1:J:698:VAL:HG22	1:J:720:TRP:HZ3	1.65	0.60
1:F:843:GLN:HG2	1:F:848:THR:HA	1.84	0.60
1:O:900:LEU:HD23	1:O:915:PHE:HA	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:658:LEU:HB2	1:H:663:LEU:HD11	1.81	0.60
1:B:86:VAL:HG13	1:B:87:PRO:HA	1.83	0.60
1:H:34:ALA:HB3	1:H:36:TRP:CZ3	2.36	0.60
1:K:7:LEU:CD1	1:K:74:LEU:HD11	2.28	0.60
1:N:160:GLY:HA3	1:N:171:PHE:HE2	1.67	0.60
1:G:740:LEU:CG	1:G:741:THR:H	2.15	0.60
1:F:167:LEU:CB	1:F:168:PRO:HD2	2.30	0.60
1:P:342:LEU:HD12	1:P:343:LEU:N	2.17	0.60
1:E:460:ASN:ND2	1:E:461:GLU:HG3	2.17	0.60
1:B:868:VAL:HB	1:B:1016:TYR:CE1	2.37	0.60
1:M:333:ARG:HH11	1:M:451:PRO:HA	1.66	0.60
1:I:902:PRO:O	1:I:938:ARG:NH1	2.35	0.60
1:N:5:ASP:OD2	1:N:157:ARG:HA	2.02	0.60
1:K:942:ARG:HA	1:K:953:GLY:O	2.00	0.60
1:F:928:PRO:HB2	1:F:973:ARG:HH11	1.67	0.60
1:L:786:ARG:N	3:L:1251:HOH:O	2.28	0.60
1:G:853:ARG:NH1	1:G:871:GLU:OE2	2.33	0.60
1:F:333:ARG:NH1	1:F:451:PRO:O	2.35	0.60
1:H:770:ILE:HD12	1:H:775:GLN:CD	2.23	0.60
1:J:127:PHE:O	1:J:182:ASN:N	2.32	0.59
1:P:323:ILE:N	1:P:323:ILE:HD12	2.16	0.59
1:P:355:ASN:HD22	1:P:566:PHE:HB3	1.65	0.59
1:M:484:VAL:O	1:M:497:ASP:HB2	2.02	0.59
1:P:746:ASP:O	1:P:760:ARG:HD2	2.02	0.59
1:D:250:LEU:O	1:D:251:ARG:HG2	2.02	0.59
1:M:261:TRP:CE2	1:M:266:GLN:HG3	2.37	0.59
1:K:777:LEU:CG	1:K:889:ALA:HA	2.32	0.59
1:G:427:THR:HG22	1:G:436:MET:SD	2.42	0.59
1:B:524:LEU:O	1:B:561:ARG:NH2	2.29	0.59
1:C:65:ALA:HB1	1:C:66:PRO:HD2	1.84	0.59
1:G:131:GLU:O	1:G:134:LEU:N	2.29	0.59
1:K:395:HIS:CE1	1:K:397:LEU:HB2	2.37	0.59
1:O:697:THR:OG1	1:O:719:GLN:HB2	2.01	0.59
1:L:625:GLN:CD	1:L:716:ALA:HB1	2.22	0.59
1:G:54:LEU:O	1:G:58:TRP:NE1	2.29	0.59
1:K:615:PRO:HB2	1:K:909:ARG:NH2	2.15	0.59
1:F:730:LEU:HD23	1:F:730:LEU:N	2.17	0.59
1:L:460:ASN:O	1:L:461:GLU:C	2.40	0.59
1:J:211:ASP:OD1	1:J:211:ASP:N	2.29	0.59
1:O:375:ASP:O	1:O:379:MET:HG3	2.02	0.59
1:G:730:LEU:HB3	1:G:731:PRO:HD2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:814:GLY:O	1:D:815:HIS:C	2.38	0.59
1:O:638:VAL:O	1:O:677:LYS:HA	2.01	0.59
1:D:211:ASP:N	1:D:211:ASP:OD1	2.31	0.59
1:A:796:SER:OG	1:A:801:ILE:HA	2.01	0.59
1:M:6:SER:OG	1:M:9:VAL:HG23	2.02	0.59
1:E:77:ASP:O	1:E:78:LEU:HD23	2.02	0.59
1:F:949:HIS:HD2	1:F:1020:TRP:NE1	1.96	0.59
1:C:100:TYR:O	1:C:597:ASN:HA	2.02	0.59
1:C:317:THR:HG23	1:C:323:ILE:HD11	1.83	0.59
1:K:14:ARG:NH1	1:K:16:TRP:HZ2	1.99	0.59
1:E:289:VAL:HG22	1:E:291:LEU:HD11	1.85	0.59
1:G:738:PRO:HA	1:G:751:LEU:CD1	2.32	0.59
1:A:388:ARG:NH2	1:A:460:ASN:OD1	2.36	0.59
1:C:50:GLN:NE2	1:C:50:GLN:N	2.49	0.59
1:F:637:GLU:HG3	1:F:679:LEU:HD21	1.83	0.59
1:O:391:HIS:HA	1:O:412:GLU:OE2	2.02	0.59
1:J:304:GLU:O	1:J:305:ILE:HG12	2.02	0.59
1:K:257:THR:HA	1:K:270:GLY:O	2.02	0.59
1:K:303:ALA:HB1	1:K:406:GLY:O	2.03	0.59
1:B:577:LYS:O	1:B:584:PRO:HA	2.02	0.59
1:P:53:SER:C	1:P:54:LEU:HD23	2.23	0.59
1:D:742:THR:HG22	1:D:743:SER:N	2.16	0.59
1:O:69:VAL:HG12	1:O:70:PRO:N	2.17	0.59
1:P:312:VAL:CG1	1:P:327:ALA:HB2	2.29	0.59
1:K:317:THR:OG1	1:K:321:THR:HB	2.03	0.59
1:E:745:MET:CG	1:E:761:GLN:HE22	2.05	0.59
1:E:3:ILE:O	1:E:6:SER:HB3	2.02	0.59
1:L:6:SER:O	1:L:9:VAL:N	2.35	0.59
1:L:7:LEU:HB2	1:L:71:GLU:OE2	2.03	0.59
1:M:412:GLU:CG	1:M:457:SER:HB3	2.32	0.59
1:H:7:LEU:HB2	1:H:71:GLU:OE2	2.01	0.59
1:A:7:LEU:N	1:A:71:GLU:OE2	2.35	0.59
1:K:536:CYS:O	1:K:566:PHE:HB2	2.02	0.59
1:N:944:LEU:HD12	1:N:945:ASN:N	2.17	0.59
1:E:138:GLN:HG2	1:E:139:THR:N	2.15	0.59
1:O:245:GLN:HG2	1:O:288:ARG:HG2	1.83	0.59
1:P:870:VAL:HG12	1:P:871:GLU:H	1.68	0.59
1:N:131:GLU:O	1:N:134:LEU:N	2.35	0.59
1:J:762:SER:OG	1:J:763:GLY:N	2.35	0.59
1:P:592:PHE:HB2	1:P:594:ASP:OD2	2.02	0.59
1:N:797:GLU:N	1:N:800:ARG:O	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:767:GLN:HG3	1:O:768:MET:N	2.17	0.59
1:P:259:SER:HA	1:P:269:SER:CB	2.27	0.59
1:P:706:THR:OG1	1:P:708:TRP:N	2.34	0.59
1:M:442:ARG:NH2	3:M:1237:HOH:O	2.35	0.59
1:H:777:LEU:HD12	1:H:889:ALA:CA	2.32	0.59
1:G:745:MET:HB3	1:G:761:GLN:HE21	1.66	0.59
1:C:249:GLU:HG2	1:C:251:ARG:NH2	2.17	0.59
1:A:237:ARG:HH11	1:A:237:ARG:HG3	1.67	0.59
1:C:783:GLN:NE2	3:C:1280:HOH:O	2.30	0.59
1:J:636:ILE:HD12	1:J:680:ILE:HB	1.85	0.59
1:G:928:PRO:HB2	1:G:973:ARG:NH1	2.17	0.59
1:B:654:TRP:CE2	1:B:666:GLY:HA3	2.38	0.59
1:K:244:VAL:HG12	1:K:245:GLN:N	2.18	0.59
1:K:541:ALA:HB3	1:K:604:ASN:O	2.02	0.59
1:E:141:ILE:HG12	1:E:213:SER:O	2.00	0.59
1:I:130:ASP:OD1	1:I:131:GLU:N	2.35	0.59
1:P:203:TRP:NE1	1:P:575:LEU:HD11	2.17	0.59
1:P:275:GLY:HA2	1:P:285:TYR:O	2.02	0.59
1:E:63:PHE:CE2	1:E:70:PRO:HD3	2.38	0.59
1:P:253:TYR:O	1:P:318:ALA:N	2.35	0.59
1:L:694:LEU:HD12	1:L:695:TRP:H	1.66	0.59
1:M:210:ARG:NH1	1:M:395:HIS:N	2.50	0.59
1:K:225:PHE:HE2	1:K:328:CYS:SG	2.25	0.59
1:I:91:GLN:HG3	1:I:96:ASP:OD1	2.03	0.59
1:P:331:GLY:HA3	1:P:451:PRO:CG	2.31	0.59
1:N:125:LEU:O	1:N:125:LEU:HG	2.00	0.59
1:O:23:GLN:HB3	1:O:26:ARG:NH2	2.17	0.59
1:E:30:HIS:ND1	1:E:31:PRO:O	2.35	0.59
1:O:796:SER:OG	1:O:801:ILE:HA	2.02	0.59
1:L:897:TRP:HD1	1:L:941:THR:HG23	1.66	0.59
1:L:936:GLY:O	1:L:938:ARG:NE	2.27	0.59
1:N:367:MET:N	3:N:1279:HOH:O	2.29	0.59
1:B:748:CYS:C	1:B:749:ILE:HD12	2.23	0.59
1:N:960:SER:HA	3:N:1282:HOH:O	2.01	0.59
1:J:349:LEU:HD13	1:J:351:ILE:CD1	2.26	0.59
1:B:427:THR:HA	1:B:436:MET:HE1	1.81	0.59
1:N:822:LEU:HD12	1:N:824:GLN:N	2.18	0.59
1:K:360:HIS:CG	1:K:361:PRO:HD2	2.37	0.59
1:L:152:LEU:HD12	1:L:153:TRP:H	1.65	0.59
1:H:5:ASP:OD1	1:H:158:TRP:N	2.22	0.59
1:B:571:VAL:HG12	1:B:607:VAL:CG2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:6:SER:O	1:A:7:LEU:C	2.40	0.59
1:B:323:ILE:HD12	1:B:323:ILE:N	2.17	0.59
1:O:701:VAL:O	1:O:703:PRO:HD3	2.02	0.59
1:N:138:GLN:N	1:N:217:LYS:O	2.29	0.59
1:D:246:MET:HE3	1:D:247:CYS:CA	2.33	0.59
1:L:246:MET:HG2	1:L:274:PHE:CE2	2.38	0.59
1:N:62:TRP:CD1	1:N:95:TYR:HB3	2.38	0.59
1:C:682:LEU:HD23	1:C:683:PRO:HD2	1.84	0.59
1:B:155:ASN:OD1	1:B:182:ASN:HA	2.03	0.59
1:N:469:ASP:HB3	1:O:473:ARG:HD2	1.85	0.59
1:C:391:HIS:HA	1:C:412:GLU:OE1	2.03	0.59
1:L:627:PHE:C	1:L:628:GLN:HG2	2.22	0.59
1:O:778:THR:HG22	1:O:779:PRO:CD	2.23	0.59
1:P:600:GLN:O	1:P:602:CYS:N	2.36	0.59
1:P:275:GLY:N	1:P:286:ALA:O	2.36	0.59
1:P:395:HIS:HE1	1:P:397:LEU:HB2	1.66	0.59
1:K:696:LEU:HD12	1:K:697:THR:N	2.17	0.59
1:N:227:VAL:CG1	1:N:240:LEU:HD11	2.33	0.59
1:B:894:ARG:NH1	1:B:919:ASP:OD2	2.35	0.59
1:E:701:VAL:HG22	1:E:714:ILE:HD12	1.83	0.59
1:N:743:SER:OG	1:N:744:GLU:N	2.36	0.59
1:M:961:ARG:O	1:M:979:GLU:N	2.34	0.59
1:M:1000:SER:CB	1:M:1001:PRO:HD2	2.33	0.59
1:K:102:ASN:HD22	1:K:201:ASP:CG	2.05	0.59
1:E:279:ILE:HD11	1:H:422:PRO:HB2	1.85	0.59
1:G:652:LEU:HD12	1:G:699:ARG:O	2.03	0.59
1:J:473:ARG:HB2	1:K:473:ARG:HG3	1.83	0.59
1:H:601:PHE:CE2	1:H:795:VAL:HG12	2.38	0.59
1:C:279:ILE:HD13	1:C:279:ILE:H	1.68	0.59
1:I:422:PRO:HD3	1:L:284:GLY:O	2.03	0.59
1:J:330:VAL:HA	3:J:1266:HOH:O	2.02	0.59
1:E:390:SER:HB2	1:E:391:HIS:CE1	2.36	0.59
1:M:88:SER:HA	1:M:366:VAL:HG21	1.83	0.59
1:E:689:GLU:O	1:E:690:SER:C	2.41	0.59
1:A:942:ARG:HA	1:A:953:GLY:O	2.01	0.59
1:P:753:ASN:N	1:P:753:ASN:OD1	2.30	0.59
1:H:123:TYR:CD2	1:H:208:ILE:HD12	2.38	0.59
1:M:962:TYR:CD2	1:M:976:LEU:HB3	2.38	0.59
1:B:251:ARG:O	1:B:253:TYR:N	2.35	0.59
1:O:592:PHE:HB2	1:O:594:ASP:OD1	2.03	0.59
1:M:510:GLN:HB3	1:M:512:PHE:CZ	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:6:SER:OG	1:E:9:VAL:HG23	2.03	0.59
1:F:653:HIS:HD2	1:F:667:GLU:HG2	1.62	0.59
1:H:79:PRO:CD	1:H:80:GLU:HG3	2.26	0.59
1:O:533:LEU:HD12	1:O:534:ILE:H	1.67	0.59
1:P:127:PHE:N	1:P:182:ASN:O	2.31	0.59
1:P:90:TRP:NE1	1:P:96:ASP:OD1	2.34	0.59
1:F:301:TRP:CD1	1:F:308:LEU:HD21	2.38	0.59
1:L:682:LEU:HB3	1:L:683:PRO:CD	2.33	0.59
1:M:211:ASP:OD1	1:M:211:ASP:N	2.29	0.59
1:O:949:HIS:CD2	1:O:1022:GLN:HE21	2.20	0.59
1:G:995:GLY:H	1:G:1002:SER:CB	2.15	0.59
1:E:279:ILE:HG13	1:E:280:ASP:N	2.17	0.59
1:O:43:ARG:HG2	1:O:43:ARG:O	2.02	0.59
1:K:701:VAL:HG13	1:K:712:GLY:O	2.02	0.59
1:C:372:MET:HG2	1:C:398:TRP:HE3	1.66	0.59
1:E:325:ALA:O	1:E:326:GLU:HG2	2.03	0.59
1:I:503:TYR:N	1:I:537:GLU:O	2.33	0.59
1:K:339:ASN:O	1:K:341:LEU:N	2.35	0.59
1:I:393:PRO:HD2	1:I:414:ASN:HB2	1.84	0.59
1:D:876:THR:OG1	1:D:877:PRO:HD2	2.03	0.59
1:I:797:GLU:O	1:I:801:ILE:HD12	2.02	0.59
1:E:336:ARG:HH21	1:E:338:GLU:CD	2.06	0.59
1:L:849:LEU:N	1:L:849:LEU:HD23	2.18	0.59
1:J:869:ASP:OD1	1:J:1015:HIS:ND1	2.35	0.59
1:D:936:GLY:O	1:D:937:LEU:C	2.39	0.59
1:M:187:MET:HE2	1:M:189:LEU:CD2	2.33	0.59
1:M:66:PRO:HA	1:M:120:THR:HG21	1.85	0.59
1:I:743:SER:OG	1:I:744:GLU:N	2.36	0.59
1:K:36:TRP:CD2	1:K:42:ALA:HA	2.37	0.59
1:P:322:LEU:HD21	1:P:324:GLU:CA	2.33	0.59
1:P:373:VAL:O	1:P:377:LEU:HD12	2.03	0.59
1:I:125:LEU:O	1:I:183:ARG:HA	2.03	0.59
1:P:949:HIS:HD2	1:P:1020:TRP:NE1	2.01	0.59
1:J:228:ALA:HB3	1:J:241:GLU:HB2	1.84	0.59
1:M:349:LEU:HB3	1:M:351:ILE:HD13	1.84	0.59
1:E:307:ASN:O	1:E:308:LEU:HD23	2.03	0.59
1:J:210:ARG:HH12	1:J:395:HIS:N	2.01	0.59
1:G:229:THR:O	1:G:230:ARG:HG3	2.03	0.59
1:G:850:PHE:HD1	1:G:872:VAL:HG13	1.68	0.59
1:K:945:ASN:OD1	1:K:950:GLN:NE2	2.32	0.59
1:G:353:GLY:O	1:G:566:PHE:HA	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:608:PHE:O	1:J:611:ARG:N	2.32	0.59
1:G:844:HIS:CE1	1:G:845:GLN:HG3	2.37	0.59
1:L:173:LEU:O	1:L:176:PHE:HD1	1.86	0.59
1:M:1022:GLN:N	1:M:1022:GLN:OE1	2.36	0.59
1:F:360:HIS:CG	1:F:361:PRO:HD2	2.38	0.59
1:I:73:TRP:CZ2	1:I:122:CYS:HB3	2.38	0.59
1:L:656:VAL:HG12	1:L:657:ALA:N	2.18	0.59
1:H:7:LEU:HD13	1:H:74:LEU:CD1	2.31	0.59
1:H:59:ARG:NH2	1:H:81:ALA:O	2.30	0.59
1:F:573:GLN:HB2	1:F:602:CYS:O	2.02	0.59
1:H:54:LEU:HB2	1:H:212:VAL:HG12	1.85	0.59
1:K:805:ALA:O	1:K:809:ARG:HG3	2.01	0.59
1:F:5:ASP:OD2	1:F:157:ARG:HA	2.03	0.59
1:N:37:ARG:NH2	1:N:218:PRO:HD3	2.17	0.59
1:P:297:ASN:ND2	1:P:297:ASN:N	2.50	0.59
1:J:472:TYR:HD1	1:J:484:VAL:HG11	1.66	0.59
1:F:262:GLN:HE22	1:F:299:LYS:HD2	1.68	0.59
1:K:38:ASN:ND2	1:K:41:GLU:H	2.00	0.58
1:P:43:ARG:HH21	1:P:264:GLU:HA	1.68	0.58
1:P:152:LEU:HD12	1:P:153:TRP:H	1.67	0.58
1:M:356:ARG:NH1	1:M:356:ARG:HG2	2.16	0.58
1:M:796:SER:OG	1:M:802:ASP:N	2.29	0.58
1:P:730:LEU:N	1:P:730:LEU:HD23	2.17	0.58
1:P:748:CYS:O	1:P:749:ILE:HD13	2.04	0.58
1:E:906:TYR:OH	1:E:935:ASN:HA	2.03	0.58
1:A:728:VAL:HG12	1:B:823:LEU:HD11	1.86	0.58
1:J:778:THR:CG2	1:J:779:PRO:HD2	2.33	0.58
1:G:251:ARG:HB3	1:G:253:TYR:CE1	2.37	0.58
1:M:1003:VAL:N	3:M:1233:HOH:O	2.31	0.58
1:J:595:THR:HA	1:J:596:PRO:C	2.23	0.58
1:F:755:ARG:HB2	1:F:769:TRP:HB2	1.85	0.58
1:P:893:GLU:O	1:P:922:LEU:HB2	2.03	0.58
1:H:654:TRP:CE2	1:H:666:GLY:HA3	2.38	0.58
1:D:141:ILE:HB	1:D:173:LEU:HD12	1.85	0.58
1:D:743:SER:OG	1:D:744:GLU:N	2.34	0.58
1:N:218:PRO:O	1:N:221:GLN:NE2	2.33	0.58
1:H:961:ARG:NH2	1:H:979:GLU:O	2.29	0.58
1:K:1004:SER:O	1:K:1005:ALA:C	2.39	0.58
1:A:827:ALA:HA	1:A:836:ILE:HD13	1.83	0.58
1:P:256:VAL:O	1:P:271:THR:HG23	2.02	0.58
1:P:312:VAL:HG12	1:P:326:GLU:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:777:LEU:HG	1:M:889:ALA:HB2	1.84	0.58
1:P:994:GLY:HA3	1:P:1003:VAL:HG22	1.85	0.58
1:I:57:GLU:OE1	1:I:83:THR:HG21	2.03	0.58
1:H:920:LEU:HB3	1:H:921:PRO:HD2	1.85	0.58
1:E:10:VAL:HG21	1:E:153:TRP:CZ2	2.36	0.58
1:H:43:ARG:HH22	1:H:264:GLU:HG2	1.64	0.58
1:H:202:MET:CE	1:H:357:HIS:HD2	2.16	0.58
1:H:835:LEU:C	1:H:836:ILE:HD13	2.24	0.58
1:K:139:THR:HG21	1:K:177:LEU:HD12	1.84	0.58
1:E:701:VAL:HG22	1:E:714:ILE:HD11	1.83	0.58
1:F:338:GLU:C	3:F:1262:HOH:O	2.42	0.58
1:G:322:LEU:HD23	1:G:323:ILE:N	2.17	0.58
1:I:662:PRO:O	1:I:663:LEU:HD23	2.03	0.58
1:I:141:ILE:O	1:I:170:GLU:HA	2.03	0.58
1:I:814:GLY:O	1:I:816:TYR:N	2.35	0.58
1:D:499:ILE:CG2	1:D:533:LEU:HD22	2.32	0.58
1:C:1004:SER:HB2	1:C:1006:GLU:OE2	2.04	0.58
1:L:18:ASN:ND2	1:L:21:VAL:HG23	2.18	0.58
1:C:942:ARG:NE	1:C:954:ASP:OD1	2.37	0.58
1:E:7:LEU:CD1	1:E:74:LEU:HD11	2.14	0.58
1:L:616:ALA:O	1:L:619:GLU:N	2.35	0.58
1:G:756:TRP:HE1	1:G:768:MET:HE1	1.68	0.58
1:E:43:ARG:HG3	1:E:43:ARG:O	2.04	0.58
1:M:502:MET:O	1:M:517:LYS:NZ	2.35	0.58
1:K:782:ASP:HA	1:K:884:LEU:HD23	1.85	0.58
1:K:167:LEU:HB3	1:K:168:PRO:CD	2.33	0.58
1:K:531:ARG:HB3	1:K:532:PRO:CD	2.32	0.58
1:N:920:LEU:HB3	1:N:921:PRO:HD2	1.85	0.58
1:H:472:TYR:CE1	1:H:476:LYS:HD3	2.38	0.58
1:P:7:LEU:O	1:P:8:ALA:C	2.40	0.58
1:P:410:VAL:O	1:P:410:VAL:HG12	2.03	0.58
1:P:577:LYS:HE3	1:P:591:ASP:O	2.03	0.58
1:E:139:THR:HG21	1:E:177:LEU:HD12	1.85	0.58
1:I:502:MET:O	1:I:517:LYS:NZ	2.30	0.58
1:D:11:LEU:HD23	1:D:11:LEU:N	2.17	0.58
1:D:742:THR:HG22	1:D:743:SER:O	2.03	0.58
1:I:814:GLY:O	1:I:817:GLN:N	2.35	0.58
1:F:691:ALA:HA	1:F:725:ASN:HB3	1.84	0.58
1:N:606:LEU:HD13	1:N:617:LEU:HD12	1.85	0.58
1:O:467:ASN:N	1:O:467:ASN:OD1	2.35	0.58
1:P:937:LEU:O	1:P:938:ARG:HD2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:100:TYR:HE2	1:P:598:ASP:HB2	1.65	0.58
1:K:10:VAL:HG21	1:K:153:TRP:CZ2	2.38	0.58
1:J:691:ALA:HA	1:J:725:ASN:HB3	1.83	0.58
1:L:3:ILE:O	1:L:9:VAL:HG21	2.03	0.58
1:L:70:PRO:HG2	1:L:78:LEU:HD11	1.84	0.58
1:B:441:THR:HG22	1:B:474:TRP:CZ3	2.38	0.58
1:B:262:GLN:HB2	1:B:309:TYR:CD2	2.37	0.58
1:E:933:SER:HA	3:E:1245:HOH:O	2.02	0.58
1:A:579:ASP:OD1	1:A:583:ASN:N	2.28	0.58
1:A:519:SER:O	1:A:520:ILE:C	2.39	0.58
1:J:768:MET:HG3	1:J:769:TRP:N	2.18	0.58
1:J:696:LEU:HD12	1:J:697:THR:N	2.18	0.58
1:A:239:VAL:HG22	1:A:294:ASN:OD1	2.02	0.58
1:P:772:ASP:N	1:P:772:ASP:OD1	2.28	0.58
1:D:129:VAL:CG2	1:D:182:ASN:HD22	2.16	0.58
1:P:649:ASN:HB2	1:P:704:ASN:OD1	2.03	0.58
1:J:833:ALA:HB1	1:J:858:ILE:O	2.03	0.58
1:G:334:GLU:OE1	1:G:336:ARG:NH1	2.36	0.58
1:E:548:GLY:O	1:E:551:LYS:HB2	2.02	0.58
1:M:11:LEU:H	1:M:11:LEU:HD23	1.67	0.58
1:P:619:GLU:OE2	3:P:1236:HOH:O	2.17	0.58
1:L:360:HIS:CE1	1:L:361:PRO:HD2	2.38	0.58
1:L:946:TYR:CE2	1:L:982:THR:HG21	2.37	0.58
1:L:7:LEU:N	1:L:71:GLU:OE2	2.37	0.58
1:N:166:ARG:HG2	1:N:392:TYR:CB	2.31	0.58
1:F:375:ASP:O	1:F:379:MET:HG3	2.03	0.58
1:E:796:SER:CB	1:E:802:ASP:H	2.16	0.58
1:D:1005:ALA:O	1:D:1007:PHE:N	2.36	0.58
1:O:210:ARG:HH11	1:O:395:HIS:CA	2.16	0.58
1:B:698:VAL:N	1:B:718:GLN:O	2.26	0.58
1:A:695:TRP:HE3	1:A:719:GLN:HG3	1.69	0.58
1:F:237:ARG:HG3	1:F:237:ARG:NH1	2.17	0.58
1:F:272:ALA:HB1	1:F:273:PRO:HD2	1.84	0.58
1:B:444:VAL:O	1:B:448:ARG:HG2	2.03	0.58
1:G:749:ILE:O	1:G:755:ARG:HA	2.03	0.58
1:C:161:TYR:OH	1:C:163:GLN:NE2	2.29	0.58
1:K:333:ARG:NH1	1:K:451:PRO:O	2.34	0.58
1:M:509:ASP:O	1:M:511:PRO:HD3	2.04	0.58
1:M:79:PRO:CG	1:M:80:GLU:HG3	2.32	0.58
1:J:467:ASN:N	1:J:467:ASN:OD1	2.34	0.58
1:M:178:ARG:HB2	1:M:182:ASN:OD1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:355:ASN:ND2	1:H:566:PHE:HB3	2.19	0.58
1:K:232:ASN:ND2	1:K:237:ARG:N	2.47	0.58
1:H:100:TYR:O	1:H:597:ASN:HA	2.02	0.58
1:M:759:ASN:OD1	1:M:761:GLN:N	2.36	0.58
1:K:210:ARG:HH12	1:K:395:HIS:N	2.02	0.58
1:B:658:LEU:O	1:B:661:LYS:N	2.31	0.58
1:J:360:HIS:CG	1:J:361:PRO:HD2	2.38	0.58
1:L:937:LEU:HA	1:L:957:PHE:O	2.03	0.58
1:A:287:ASP:OD2	1:D:425:ARG:NH2	2.36	0.58
1:I:638:VAL:O	1:I:677:LYS:HA	2.03	0.58
1:O:658:LEU:O	1:O:661:LYS:N	2.28	0.58
1:P:287:ASP:OD1	1:P:287:ASP:N	2.30	0.58
1:P:1015:HIS:NE2	1:P:1017:GLN:OE1	2.29	0.58
1:A:202:MET:HE3	1:A:392:TYR:HE2	1.67	0.58
1:P:907:PRO:HG3	1:P:990:HIS:O	2.03	0.58
1:M:770:ILE:HD11	1:M:1022:GLN:HG2	1.86	0.58
1:A:38:ASN:ND2	1:A:40:GLU:N	2.52	0.58
1:K:78:LEU:N	1:K:78:LEU:HD23	2.18	0.58
1:L:3:ILE:HG13	1:L:3:ILE:O	2.03	0.58
1:H:155:ASN:ND2	1:H:182:ASN:OD1	2.29	0.58
1:O:570:TRP:HD1	1:O:571:VAL:HG22	1.68	0.58
1:P:891:VAL:HG22	1:P:982:THR:OG1	2.04	0.58
1:J:98:PRO:HB2	1:J:203:TRP:CE3	2.38	0.58
1:K:202:MET:HE1	1:K:357:HIS:HD2	1.67	0.58
1:H:835:LEU:O	1:H:836:ILE:HD13	2.03	0.58
1:K:833:ALA:HB2	1:K:859:ASP:HA	1.86	0.58
1:A:279:ILE:CD1	1:D:422:PRO:HG2	2.33	0.58
1:M:906:TYR:OH	1:M:935:ASN:HA	2.03	0.58
1:K:651:LEU:HD13	1:K:669:PRO:HA	1.85	0.58
1:K:486:TYR:CZ	1:K:488:GLY:HA3	2.39	0.58
1:H:360:HIS:CE1	1:H:362:LEU:HB2	2.39	0.58
1:K:570:TRP:CD1	1:K:571:VAL:HG22	2.38	0.58
1:K:645:ARG:NH2	1:K:650:GLU:OE1	2.37	0.58
1:O:869:ASP:OD2	1:O:1015:HIS:ND1	2.36	0.58
1:I:141:ILE:HG13	1:I:213:SER:O	2.03	0.58
1:L:897:TRP:CH2	1:L:918:TRP:HB3	2.38	0.58
1:G:343:LEU:HD23	1:G:348:PRO:N	2.18	0.58
1:H:382:ASN:ND2	1:H:617:LEU:HD21	2.18	0.58
1:N:30:HIS:ND1	1:N:31:PRO:O	2.35	0.58
1:A:673:ALA:HB1	1:A:674:PRO:HD2	1.85	0.58
1:D:925:MET:HB3	3:D:1280:HOH:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:673:ALA:O	1:C:674:PRO:C	2.41	0.58
1:L:260:LEU:O	1:L:267:VAL:N	2.36	0.58
1:F:7:LEU:HD13	1:F:74:LEU:CD1	2.18	0.58
1:E:164:ASP:HB2	1:E:439:ARG:NH1	2.19	0.58
1:P:137:GLY:HA2	1:P:219:THR:HG23	1.85	0.58
1:P:616:ALA:O	1:P:619:GLU:N	2.32	0.58
1:P:200:GLN:O	1:P:204:ARG:NH2	2.37	0.58
1:H:16:TRP:CE3	1:H:189:LEU:HD11	2.39	0.58
1:H:148:SER:OG	1:H:192:SER:HB3	2.03	0.58
1:H:91:GLN:HG2	1:H:190:ARG:NH2	2.18	0.58
1:P:797:GLU:N	1:P:800:ARG:O	2.29	0.58
1:G:23:GLN:HB3	1:G:26:ARG:HH21	1.68	0.58
1:E:963:SER:O	1:E:964:GLN:C	2.39	0.58
1:H:708:TRP:CZ3	1:H:709:SER:HB3	2.37	0.58
1:O:651:LEU:HD23	1:O:703:PRO:HG3	1.84	0.58
1:P:409:VAL:HG12	1:P:410:VAL:N	2.17	0.58
1:J:70:PRO:O	1:J:72:SER:N	2.37	0.58
1:I:961:ARG:NH2	1:I:979:GLU:O	2.33	0.58
1:B:718:GLN:HB3	1:B:720:TRP:CH2	2.38	0.58
1:G:568:TRP:CD2	1:G:569:ASP:HB3	2.39	0.58
1:A:1015:HIS:NE2	1:A:1017:GLN:OE1	2.30	0.58
1:K:612:THR:HG23	1:K:613:PRO:HD2	1.85	0.58
1:O:73:TRP:HZ2	1:O:123:TYR:O	1.87	0.58
1:F:759:ASN:OD1	1:F:762:SER:N	2.31	0.58
1:G:796:SER:OG	1:G:802:ASP:N	2.31	0.58
1:N:427:THR:HG21	1:N:462:SER:HB3	1.85	0.58
1:E:549:PHE:CE2	1:E:620:ALA:HA	2.38	0.58
1:A:783:GLN:NE2	1:A:985:ASN:OD1	2.28	0.58
1:P:902:PRO:O	1:P:938:ARG:NH2	2.37	0.58
1:P:378:LEU:O	1:P:381:GLN:N	2.36	0.58
1:M:355:ASN:HD21	1:M:566:PHE:HB3	1.65	0.58
1:P:115:PRO:HD2	1:P:191:TRP:HB3	1.85	0.58
1:H:60:PHE:CB	1:H:84:VAL:HG21	2.33	0.58
1:L:227:VAL:CG1	1:L:240:LEU:HD11	2.34	0.58
1:P:949:HIS:HD2	1:P:1020:TRP:HE1	1.50	0.58
1:L:131:GLU:O	1:L:134:LEU:N	2.31	0.58
1:P:1018:LEU:HD22	1:P:1019:VAL:H	1.69	0.58
1:G:667:GLU:O	1:G:668:VAL:HG23	2.04	0.58
1:E:353:GLY:O	1:E:567:VAL:N	2.33	0.58
1:L:544:ASN:HB3	1:L:789:LEU:HD22	1.84	0.58
1:I:271:THR:HG22	1:I:272:ALA:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:368:ASP:O	1:J:372:MET:HG3	2.02	0.58
1:L:895:VAL:HG12	1:L:896:ASN:N	2.17	0.58
1:D:729:THR:C	1:D:730:LEU:HD23	2.24	0.58
1:O:608:PHE:O	1:O:611:ARG:N	2.34	0.58
1:E:917:ARG:HH22	1:E:943:GLU:CD	2.07	0.58
1:A:358:GLU:HB3	1:A:367:MET:SD	2.43	0.58
1:I:336:ARG:HH21	1:I:338:GLU:CD	2.05	0.58
1:M:832:ASP:OD1	1:M:832:ASP:N	2.37	0.58
1:M:830:LEU:HB2	1:M:833:ALA:O	2.04	0.58
1:A:660:GLY:O	1:A:662:PRO:HD3	2.03	0.58
1:G:152:LEU:HG	1:G:153:TRP:N	2.15	0.58
1:E:161:TYR:OH	1:E:163:GLN:NE2	2.37	0.58
1:P:930:VAL:HG23	1:P:973:ARG:NH1	2.18	0.58
1:M:440:VAL:CG1	1:M:475:ILE:HD11	2.34	0.58
1:C:622:HIS:O	1:C:625:GLN:HG2	2.03	0.58
1:L:78:LEU:N	1:L:78:LEU:HD23	2.17	0.58
1:G:933:SER:O	1:G:934:GLU:C	2.39	0.58
1:F:836:ILE:HG22	1:F:837:THR:H	1.68	0.58
1:F:338:GLU:O	1:F:340:GLY:N	2.35	0.58
1:C:830:LEU:N	1:C:830:LEU:HD12	2.18	0.58
1:A:743:SER:O	1:A:760:ARG:NH1	2.35	0.58
1:M:663:LEU:HD23	1:M:663:LEU:N	2.19	0.58
1:G:155:ASN:ND2	1:G:182:ASN:OD1	2.31	0.58
1:F:79:PRO:CD	1:F:80:GLU:H	2.17	0.58
1:G:14:ARG:NH1	1:G:16:TRP:HZ2	2.02	0.58
1:H:515:VAL:N	1:H:516:PRO:HD3	2.19	0.58
1:M:876:THR:O	1:M:877:PRO:C	2.39	0.58
1:N:254:LEU:O	1:N:255:ARG:HD3	2.04	0.58
1:J:400:THR:O	1:J:404:ARG:HG3	2.04	0.58
1:B:258:VAL:HG22	1:B:313:VAL:HG22	1.85	0.58
1:J:14:ARG:HH11	1:J:14:ARG:HG2	1.69	0.58
1:J:806:TRP:CZ3	1:J:809:ARG:NH2	2.72	0.58
1:N:730:LEU:HD12	1:N:730:LEU:N	2.19	0.58
1:C:759:ASN:OD1	1:C:761:GLN:N	2.35	0.58
1:C:106:PRO:HG3	1:C:204:ARG:HG3	1.86	0.58
1:H:789:LEU:N	1:H:792:ASP:OD2	2.29	0.58
1:H:436:MET:CE	1:H:467:ASN:HD22	2.16	0.57
1:B:743:SER:O	1:B:760:ARG:NH1	2.37	0.57
1:P:881:ARG:NH2	1:P:934:GLU:OE1	2.37	0.57
1:C:746:ASP:CA	1:C:760:ARG:HG3	2.28	0.57
1:M:651:LEU:N	1:M:701:VAL:O	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:686:PRO:HB2	1:O:688:PRO:HD3	1.86	0.57
1:A:42:ALA:O	1:A:310:ARG:NH1	2.36	0.57
1:L:440:VAL:CG1	1:L:475:ILE:HD11	2.33	0.57
1:G:59:ARG:NH2	1:G:81:ALA:HB3	2.18	0.57
1:I:289:VAL:HG23	1:I:290:THR:N	2.19	0.57
1:O:395:HIS:CG	1:O:396:PRO:HD2	2.39	0.57
1:K:672:VAL:HG13	1:K:678:GLN:HB2	1.86	0.57
1:J:88:SER:HA	1:J:366:VAL:HG21	1.86	0.57
1:D:114:VAL:HG13	1:D:115:PRO:CD	2.34	0.57
1:G:856:TYR:CD2	1:G:864:MET:HE2	2.37	0.57
1:P:738:PRO:HG2	1:P:834:VAL:HG23	1.86	0.57
1:E:53:SER:O	1:E:54:LEU:HD23	2.03	0.57
1:N:1020:TRP:HD1	1:N:1021:CYS:N	2.02	0.57
1:P:30:HIS:ND1	1:P:31:PRO:O	2.33	0.57
1:L:937:LEU:C	1:L:938:ARG:HG2	2.24	0.57
1:A:14:ARG:NH1	1:A:16:TRP:HZ2	2.02	0.57
1:E:1012:GLY:C	1:E:1013:ARG:HG3	2.25	0.57
1:I:152:LEU:HD12	1:I:153:TRP:H	1.69	0.57
1:F:861:SER:HB2	1:F:863:GLN:HG3	1.85	0.57
1:K:794:GLY:HA2	1:K:998:SER:O	2.04	0.57
1:E:255:ARG:CZ	1:E:318:ALA:HB2	2.34	0.57
1:L:783:GLN:HE22	1:L:985:ASN:HB3	1.69	0.57
1:P:141:ILE:HA	1:P:214:LEU:CD2	2.34	0.57
1:M:573:GLN:HB2	1:M:602:CYS:O	2.03	0.57
1:P:542:MET:HA	1:P:604:ASN:HA	1.85	0.57
1:H:36:TRP:C	1:H:37:ARG:HD3	2.24	0.57
1:H:255:ARG:HB3	1:H:316:HIS:NE2	2.18	0.57
1:P:898:LEU:CD2	1:P:942:ARG:HB2	2.33	0.57
1:B:668:VAL:CG1	1:B:669:PRO:HD2	2.34	0.57
1:H:742:THR:HG22	1:H:743:SER:N	2.11	0.57
1:M:173:LEU:HB3	1:M:177:LEU:CG	2.35	0.57
1:H:100:TYR:CE2	1:H:598:ASP:HB2	2.39	0.57
1:M:284:GLY:O	1:P:422:PRO:HD3	2.05	0.57
1:M:272:ALA:HB1	1:M:273:PRO:HD2	1.85	0.57
1:I:205:MET:O	1:I:206:SER:HB3	2.04	0.57
1:P:342:LEU:C	1:P:343:LEU:HD23	2.25	0.57
1:P:854:LYS:HA	1:P:867:THR:O	2.04	0.57
1:K:796:SER:OG	1:K:801:ILE:HA	2.04	0.57
1:K:612:THR:CG2	1:K:613:PRO:HD2	2.34	0.57
1:J:210:ARG:HH11	1:J:395:HIS:HB2	1.69	0.57
1:E:223:SER:HB3	1:E:247:CYS:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:695:TRP:CZ2	1:A:721:ARG:HG3	2.39	0.57
1:L:409:VAL:HG12	1:L:410:VAL:N	2.18	0.57
1:E:743:SER:O	1:E:760:ARG:NH1	2.37	0.57
1:P:19:PRO:HD3	1:P:112:PRO:HB3	1.86	0.57
1:J:3:ILE:HG13	1:J:3:ILE:O	1.91	0.57
1:L:505:ARG:HG2	1:L:996:ASP:OD2	2.04	0.57
1:O:854:LYS:HA	1:O:867:THR:O	2.03	0.57
1:E:164:ASP:CA	1:E:439:ARG:HH12	2.17	0.57
1:P:99:ILE:O	1:P:203:TRP:HE3	1.87	0.57
1:L:748:CYS:O	1:L:749:ILE:HG12	2.03	0.57
1:F:34:ALA:HB3	1:F:36:TRP:CZ3	2.38	0.57
1:M:128:ASN:HA	1:M:180:GLY:O	2.03	0.57
1:O:683:PRO:O	1:O:685:LEU:HG	2.04	0.57
1:B:436:MET:HE3	1:B:467:ASN:HD22	1.69	0.57
1:M:697:THR:OG1	1:M:719:GLN:HB2	2.04	0.57
1:H:91:GLN:HB3	1:H:98:PRO:HD3	1.87	0.57
1:E:249:GLU:HB3	1:E:251:ARG:CZ	2.33	0.57
1:F:66:PRO:HB3	1:F:187:MET:HE3	1.86	0.57
1:I:275:GLY:N	1:I:286:ALA:O	2.36	0.57
1:O:210:ARG:HH12	1:O:395:HIS:N	2.01	0.57
1:L:114:VAL:HG13	1:L:115:PRO:N	2.18	0.57
1:L:531:ARG:HB3	1:L:532:PRO:CD	2.33	0.57
1:A:282:ARG:HD3	1:D:418:HIS:O	2.03	0.57
1:O:134:LEU:N	1:O:134:LEU:HD23	2.16	0.57
1:L:246:MET:HE2	1:L:287:ASP:HB2	1.85	0.57
1:B:17:GLU:OE1	1:B:113:PHE:HD1	1.86	0.57
1:H:133:TRP:C	1:H:134:LEU:HD23	2.23	0.57
1:P:899:GLY:CA	1:P:941:THR:HG23	2.30	0.57
1:H:894:ARG:HH12	1:H:920:LEU:N	2.02	0.57
1:P:894:ARG:HH12	1:P:920:LEU:HA	1.66	0.57
1:E:360:HIS:HE1	1:E:362:LEU:HB2	1.62	0.57
1:L:577:LYS:N	1:L:585:TRP:O	2.36	0.57
1:P:91:GLN:H	1:P:91:GLN:HE21	1.53	0.57
1:L:655:MET:HA	1:L:664:ALA:O	2.04	0.57
1:H:472:TYR:HD1	1:H:484:VAL:HG11	1.69	0.57
1:P:403:ASP:OD1	1:P:451:PRO:HD2	2.04	0.57
1:K:930:VAL:O	1:K:932:PRO:HD3	2.04	0.57
1:O:906:TYR:OH	1:O:935:ASN:HA	2.03	0.57
1:P:849:LEU:HB2	1:P:850:PHE:CD2	2.39	0.57
1:K:421:VAL:O	1:K:425:ARG:NH1	2.29	0.57
1:C:906:TYR:HB3	1:C:907:PRO:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:251:ARG:O	1:K:253:TYR:N	2.38	0.57
1:D:654:TRP:CE2	1:D:666:GLY:HA3	2.40	0.57
1:F:906:TYR:HB3	1:F:907:PRO:HD2	1.86	0.57
1:H:997:ASP:OD1	1:H:998:SER:N	2.37	0.57
1:L:540:HIS:HD2	1:L:568:TRP:HD1	1.52	0.57
1:E:131:GLU:O	1:E:134:LEU:N	2.29	0.57
1:I:128:ASN:HA	1:I:180:GLY:O	2.04	0.57
1:B:57:GLU:HG2	1:B:83:THR:CG2	2.35	0.57
1:B:485:GLN:HA	1:B:496:THR:OG1	2.05	0.57
1:M:158:TRP:CZ2	1:M:160:GLY:HA2	2.38	0.57
1:P:620:ALA:O	1:P:621:LYS:C	2.40	0.57
1:P:899:GLY:HA2	1:P:915:PHE:CE1	2.39	0.57
1:K:227:VAL:CG1	1:K:240:LEU:HD11	2.35	0.57
1:I:7:LEU:CD1	1:I:74:LEU:HD11	2.34	0.57
1:L:7:LEU:HD12	1:L:74:LEU:HD11	1.84	0.57
1:K:937:LEU:O	1:K:938:ARG:HG2	2.05	0.57
1:A:492:ASP:O	1:A:531:ARG:NH2	2.31	0.57
1:K:572:ASP:HB2	3:K:1282:HOH:O	2.04	0.57
1:P:456:TRP:NE1	1:P:482:ARG:HD2	2.19	0.57
1:K:652:LEU:O	1:K:667:GLU:HA	2.05	0.57
1:G:698:VAL:HG21	1:G:720:TRP:CH2	2.39	0.57
1:J:937:LEU:C	1:J:938:ARG:HG2	2.23	0.57
1:P:856:TYR:HD2	1:P:864:MET:CE	2.17	0.57
1:N:129:VAL:HG23	1:N:182:ASN:ND2	2.20	0.57
1:M:630:ARG:HB3	1:M:630:ARG:CZ	2.34	0.57
1:E:390:SER:HA	1:E:391:HIS:ND1	2.19	0.57
1:H:416:GLU:OE2	1:H:418:HIS:HB2	2.04	0.57
1:K:673:ALA:O	1:K:674:PRO:C	2.43	0.57
1:H:548:GLY:O	1:H:549:PHE:C	2.43	0.57
1:A:778:THR:CG2	1:A:779:PRO:HD2	2.34	0.57
1:J:271:THR:HG22	1:J:272:ALA:N	2.19	0.57
1:M:166:ARG:CG	1:M:392:TYR:HB2	2.34	0.57
1:O:11:LEU:N	1:O:11:LEU:HD23	2.18	0.57
1:L:102:ASN:HB3	3:L:1218:HOH:O	2.04	0.57
1:H:23:GLN:OE1	1:H:26:ARG:N	2.29	0.57
1:L:227:VAL:HG23	1:L:449:ASN:OD1	2.04	0.57
1:K:52:ARG:O	1:K:213:SER:HB3	2.05	0.57
1:B:894:ARG:HH21	1:B:921:PRO:HD3	1.70	0.57
1:K:878:HIS:N	1:K:878:HIS:ND1	2.52	0.57
1:E:763:GLY:HA3	1:E:822:LEU:HD22	1.86	0.57
1:L:210:ARG:HH12	1:L:395:HIS:N	2.01	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:775:GLN:HA	1:B:775:GLN:HE21	1.69	0.57
1:K:651:LEU:HD12	1:K:652:LEU:N	2.20	0.57
1:B:833:ALA:HB2	1:B:859:ASP:HA	1.87	0.57
1:I:1005:ALA:O	1:I:1006:GLU:C	2.42	0.57
1:F:316:HIS:ND1	1:F:316:HIS:N	2.52	0.57
1:L:810:TRP:CH2	1:L:991:MET:HE2	2.39	0.57
1:K:256:VAL:O	1:K:271:THR:HA	2.05	0.57
1:N:673:ALA:O	1:N:674:PRO:C	2.42	0.57
1:H:768:MET:O	1:H:775:GLN:HG2	2.04	0.57
1:D:575:LEU:O	1:D:586:SER:HA	2.05	0.57
1:K:1009:LEU:HA	3:K:1284:HOH:O	2.04	0.57
1:E:810:TRP:HH2	1:E:991:MET:HE2	1.69	0.57
1:C:436:MET:HE1	1:C:467:ASN:HD22	1.70	0.57
1:O:729:THR:O	1:O:731:PRO:HD3	2.03	0.57
1:A:114:VAL:CG1	1:A:115:PRO:HD2	2.27	0.57
1:J:689:GLU:O	1:J:690:SER:C	2.42	0.57
1:K:292:ARG:C	1:K:293:LEU:HD23	2.25	0.57
1:H:959:ILE:HD12	1:H:984:LEU:CD1	2.34	0.57
1:H:129:VAL:HG23	1:H:182:ASN:HD22	1.70	0.57
1:P:863:GLN:HG2	1:P:1021:CYS:HB2	1.86	0.57
1:N:645:ARG:NH2	1:N:648:ASP:OD1	2.29	0.57
1:M:548:GLY:O	1:M:551:LYS:N	2.36	0.57
1:M:606:LEU:HB3	1:M:617:LEU:CD1	2.35	0.57
1:J:974:HIS:C	1:J:975:LEU:HD23	2.25	0.57
1:A:77:ASP:C	1:A:78:LEU:HD23	2.25	0.57
1:H:701:VAL:O	1:H:703:PRO:HD3	2.04	0.57
1:F:433:LEU:HD12	1:F:433:LEU:O	2.04	0.57
1:D:487:GLU:HG2	1:D:491:ALA:HB2	1.86	0.57
1:M:937:LEU:HD21	1:M:939:CYS:SG	2.45	0.57
1:P:689:GLU:OE1	1:P:689:GLU:N	2.37	0.57
1:K:1018:LEU:HD22	1:K:1019:VAL:H	1.69	0.57
1:G:538:TYR:O	1:G:567:VAL:HA	2.05	0.57
1:F:770:ILE:O	1:F:773:LYS:HB2	2.04	0.57
1:I:200:GLN:OE1	1:I:200:GLN:N	2.38	0.57
1:F:832:ASP:OD1	1:F:832:ASP:N	2.38	0.57
1:L:971:SER:OG	1:L:972:HIS:ND1	2.35	0.57
1:H:746:ASP:O	1:H:760:ARG:HD2	2.05	0.57
1:M:28:ALA:O	1:M:30:HIS:HD2	1.88	0.57
1:P:387:VAL:HG11	1:P:407:LEU:HD13	1.84	0.57
1:P:622:HIS:HA	1:P:625:GLN:OE1	2.04	0.57
1:M:444:VAL:O	1:M:448:ARG:HB3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:325:ALA:O	1:H:326:GLU:HG2	2.05	0.57
1:H:946:TYR:HE2	1:H:982:THR:HG21	1.68	0.57
1:A:133:TRP:C	1:A:134:LEU:HD23	2.24	0.57
1:L:177:LEU:N	1:L:177:LEU:HD23	2.19	0.57
1:P:73:TRP:O	1:P:183:ARG:NH2	2.35	0.57
1:B:262:GLN:HB2	1:B:309:TYR:CE2	2.39	0.57
1:J:883:GLY:HA3	1:J:987:ASP:HA	1.86	0.57
1:J:52:ARG:NH2	1:J:128:ASN:O	2.30	0.57
1:O:141:ILE:HG12	1:O:143:PHE:HE1	1.65	0.57
1:E:445:GLN:NE2	1:H:430:PRO:HG2	2.18	0.57
1:I:78:LEU:N	1:I:78:LEU:HD23	2.13	0.57
1:F:645:ARG:NH1	1:F:646:HIS:O	2.38	0.57
1:F:262:GLN:HE22	1:F:299:LYS:CD	2.18	0.57
1:F:502:MET:HB2	1:F:537:GLU:HB2	1.87	0.57
1:F:369:GLU:O	1:F:373:VAL:HG23	2.04	0.57
1:O:832:ASP:OD1	1:O:832:ASP:N	2.37	0.57
1:D:778:THR:HB	1:D:887:GLN:H	1.68	0.57
1:I:619:GLU:HA	1:I:912:ALA:HB2	1.87	0.57
1:K:229:THR:HA	1:K:239:VAL:O	2.05	0.57
1:N:833:ALA:HB1	1:N:858:ILE:O	2.05	0.57
1:E:26:ARG:HH11	1:E:442:ARG:NH1	2.03	0.57
1:P:198:GLU:HG2	1:P:414:ASN:OD1	2.05	0.57
1:D:589:GLY:HA3	1:D:599:ARG:HA	1.85	0.57
1:M:130:ASP:O	1:M:131:GLU:C	2.41	0.57
1:H:460:ASN:O	1:H:461:GLU:C	2.42	0.57
1:E:246:MET:HB3	1:E:274:PHE:HZ	1.66	0.57
1:L:656:VAL:CG1	1:L:694:LEU:HD11	2.35	0.57
1:H:377:LEU:HD23	1:H:708:TRP:HA	1.87	0.57
1:A:7:LEU:HD12	1:A:74:LEU:HD11	1.86	0.57
1:M:352:ARG:N	1:M:385:ASN:HB2	2.19	0.57
1:A:859:ASP:OD1	1:A:861:SER:OG	2.23	0.57
1:F:582:GLY:O	1:F:584:PRO:HD3	2.05	0.57
1:L:769:TRP:HA	1:L:773:LYS:O	2.05	0.57
1:G:1020:TRP:HD1	1:G:1021:CYS:H	1.53	0.57
1:A:421:VAL:O	1:A:425:ARG:NH1	2.38	0.57
1:N:130:ASP:OD1	1:N:132:SER:HB3	2.04	0.57
1:L:18:ASN:HD22	1:L:21:VAL:HG23	1.68	0.57
1:E:917:ARG:NH2	1:E:943:GLU:OE2	2.38	0.57
1:O:833:ALA:HB1	1:O:858:ILE:O	2.05	0.57
1:M:694:LEU:HB3	1:M:723:ALA:H	1.70	0.57
1:P:962:TYR:HD2	1:P:966:GLN:NE2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:474:TRP:CZ2	1:G:478:VAL:HG21	2.40	0.57
1:C:730:LEU:HB3	1:C:731:PRO:HD2	1.87	0.57
1:I:101:THR:HG21	1:I:104:THR:HG22	1.86	0.57
1:N:634:GLN:O	1:N:682:LEU:HB2	2.05	0.57
1:G:782:ASP:HB2	1:G:842:TRP:CZ2	2.40	0.57
1:E:213:SER:O	1:E:214:LEU:HD23	2.04	0.57
1:P:141:ILE:CG1	1:P:214:LEU:HD21	2.35	0.57
1:P:26:ARG:HD2	1:P:442:ARG:HH22	1.67	0.57
1:P:316:HIS:HB3	1:P:322:LEU:HA	1.87	0.57
1:M:354:VAL:HG23	1:M:567:VAL:O	2.04	0.57
1:K:770:ILE:HD11	1:K:1022:GLN:HG2	1.86	0.57
1:M:125:LEU:HD12	1:M:126:THR:H	1.68	0.57
1:H:200:GLN:HG2	1:H:391:HIS:HB2	1.87	0.57
1:H:890:GLN:HG3	1:H:891:VAL:H	1.70	0.57
1:J:60:PHE:CB	1:J:84:VAL:HG21	2.34	0.57
1:H:100:TYR:HB2	1:H:203:TRP:CZ3	2.40	0.57
1:K:139:THR:HG21	1:K:177:LEU:CD1	2.35	0.57
1:J:920:LEU:HB3	1:J:921:PRO:CD	2.33	0.57
1:D:755:ARG:HB2	1:D:769:TRP:HB2	1.86	0.57
1:F:26:ARG:HH12	1:F:163:GLN:H	1.52	0.57
1:D:890:GLN:HG3	1:D:891:VAL:N	2.19	0.57
1:N:73:TRP:O	1:N:183:ARG:NH1	2.30	0.57
1:N:42:ALA:O	1:N:310:ARG:NH1	2.38	0.57
1:H:775:GLN:C	1:H:776:LEU:HD23	2.25	0.57
1:G:730:LEU:CB	1:G:731:PRO:HD2	2.35	0.57
1:C:200:GLN:HG2	1:C:391:HIS:HB2	1.87	0.57
1:E:255:ARG:HG3	1:E:271:THR:HG22	1.86	0.57
1:E:830:LEU:HB3	1:F:828:ASP:OD2	2.05	0.57
1:N:347:LYS:HB3	1:N:643:LEU:HD13	1.87	0.57
1:H:547:GLY:N	1:H:994:GLY:O	2.38	0.57
1:G:246:MET:HG2	1:G:274:PHE:CZ	2.40	0.57
1:E:522:LYS:O	1:E:523:TRP:C	2.43	0.57
1:G:88:SER:HA	1:G:366:VAL:HG21	1.86	0.57
1:C:380:LYS:HE3	1:C:406:GLY:O	2.05	0.57
1:P:886:CYS:SG	1:P:888:LEU:HD21	2.44	0.56
1:K:742:THR:HG22	1:K:743:SER:N	2.19	0.56
1:O:3:ILE:O	1:O:9:VAL:HG21	2.05	0.56
1:E:99:ILE:CD1	1:E:190:ARG:HH12	2.12	0.56
1:P:390:SER:HA	1:P:391:HIS:ND1	2.18	0.56
1:A:130:ASP:OD1	1:A:131:GLU:N	2.37	0.56
1:E:708:TRP:CE3	1:E:709:SER:HB3	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:654:TRP:NE1	1:K:666:GLY:HA3	2.20	0.56
1:B:662:PRO:C	1:B:663:LEU:HD23	2.24	0.56
1:K:544:ASN:HB2	1:K:929:TYR:CE2	2.40	0.56
1:C:133:TRP:C	1:C:134:LEU:HD23	2.25	0.56
1:D:949:HIS:HD2	1:D:1020:TRP:HE1	1.53	0.56
1:E:646:HIS:O	1:E:648:ASP:N	2.37	0.56
1:O:251:ARG:HB3	1:O:253:TYR:CE1	2.40	0.56
1:A:758:PHE:HZ	1:A:864:MET:CE	2.18	0.56
1:H:619:GLU:HA	1:H:912:ALA:HB2	1.87	0.56
1:P:432:TRP:O	1:P:435:ALA:HB3	2.04	0.56
1:C:358:GLU:HB3	1:C:367:MET:SD	2.45	0.56
1:O:738:PRO:CA	1:O:751:LEU:HD12	2.34	0.56
1:O:558:GLN:HB3	1:O:559:TYR:HD1	1.70	0.56
1:O:587:ALA:HB1	1:O:591:ASP:CB	2.35	0.56
1:E:164:ASP:CB	1:E:439:ARG:HH12	2.18	0.56
1:P:927:THR:HG21	1:P:929:TYR:CZ	2.40	0.56
1:I:57:GLU:HA	1:I:84:VAL:O	2.04	0.56
1:H:894:ARG:HH12	1:H:920:LEU:CA	2.17	0.56
1:L:952:ARG:O	1:L:1018:LEU:HD23	2.05	0.56
1:B:40:GLU:CD	1:B:43:ARG:HH12	2.09	0.56
1:H:154:CYS:O	1:H:157:ARG:N	2.29	0.56
1:C:542:MET:HG3	1:C:603:MET:O	2.06	0.56
1:P:73:TRP:HZ2	1:P:123:TYR:O	1.87	0.56
1:B:599:ARG:HH21	1:B:797:GLU:HG3	1.69	0.56
1:M:304:GLU:C	1:M:305:ILE:HG12	2.24	0.56
1:M:412:GLU:HA	1:M:457:SER:HB3	1.87	0.56
1:A:1011:ALA:HB3	1:A:1014:TYR:CZ	2.40	0.56
1:E:258:VAL:CG1	1:E:293:LEU:HD11	2.35	0.56
1:F:145:GLY:HA3	1:F:210:ARG:HG3	1.87	0.56
1:F:738:PRO:HB2	1:F:834:VAL:HG21	1.86	0.56
1:G:629:PHE:CD2	1:G:638:VAL:HG22	2.40	0.56
1:I:708:TRP:CE3	1:I:709:SER:HB3	2.40	0.56
1:H:291:LEU:O	1:H:292:ARG:HG2	2.04	0.56
1:B:5:ASP:OD2	1:B:157:ARG:HA	2.04	0.56
1:I:204:ARG:N	1:I:204:ARG:HD3	2.20	0.56
1:L:341:LEU:HD23	1:L:561:ARG:HG2	1.87	0.56
1:A:777:LEU:HD11	1:A:889:ALA:HA	1.87	0.56
1:M:186:VAL:HG12	1:M:187:MET:N	2.20	0.56
1:M:187:MET:CE	1:M:189:LEU:HD21	2.35	0.56
1:P:259:SER:HA	1:P:268:ALA:O	2.06	0.56
1:A:202:MET:CE	1:A:392:TYR:HE2	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:261:TRP:N	1:E:310:ARG:O	2.30	0.56
1:P:932:PRO:HB2	1:P:967:LEU:O	2.05	0.56
1:P:92:MET:CE	1:P:575:LEU:HD22	2.36	0.56
1:E:79:PRO:CG	1:E:80:GLU:HG3	2.35	0.56
1:E:188:VAL:C	1:E:189:LEU:HD23	2.26	0.56
1:J:427:THR:HG21	1:J:462:SER:HB3	1.87	0.56
1:L:651:LEU:CD1	1:L:669:PRO:HA	2.33	0.56
1:E:652:LEU:N	1:E:668:VAL:O	2.33	0.56
1:F:927:THR:HG21	1:F:929:TYR:CE2	2.39	0.56
1:C:359:HIS:CD2	1:C:573:GLN:HA	2.40	0.56
1:M:890:GLN:CG	1:M:891:VAL:H	2.17	0.56
1:K:617:LEU:O	1:K:620:ALA:HB3	2.05	0.56
1:N:742:THR:HG22	1:N:743:SER:N	2.19	0.56
1:I:672:VAL:HG13	1:I:678:GLN:HB2	1.87	0.56
1:M:237:ARG:CG	1:M:237:ARG:HH11	2.18	0.56
1:N:708:TRP:CZ3	1:N:709:SER:HB3	2.40	0.56
1:P:456:TRP:CD1	1:P:482:ARG:HG3	2.41	0.56
1:F:79:PRO:HG2	1:F:80:GLU:HG2	1.86	0.56
1:B:658:LEU:O	1:B:660:GLY:N	2.39	0.56
1:O:224:ASP:OD1	1:O:225:PHE:N	2.39	0.56
1:N:770:ILE:HD11	1:N:1022:GLN:CG	2.34	0.56
1:G:304:GLU:OE1	1:G:644:PHE:N	2.30	0.56
1:E:647:SER:HB3	1:E:672:VAL:HG23	1.88	0.56
1:B:352:ARG:HG2	1:B:553:TRP:CH2	2.40	0.56
1:K:542:MET:HA	1:K:604:ASN:HA	1.85	0.56
1:H:237:ARG:HH11	1:H:237:ARG:HG3	1.70	0.56
1:D:87:PRO:HB2	1:D:209:PHE:HA	1.87	0.56
1:B:356:ARG:HD2	1:B:379:MET:CE	2.35	0.56
1:J:637:GLU:HB2	1:J:679:LEU:CD2	2.35	0.56
1:M:854:LYS:HB3	1:M:867:THR:O	2.05	0.56
1:D:895:VAL:HG12	1:D:896:ASN:N	2.20	0.56
1:I:718:GLN:HG2	1:I:720:TRP:CZ2	2.40	0.56
1:J:167:LEU:HB3	1:J:168:PRO:HD2	1.86	0.56
1:F:160:GLY:HA3	1:F:171:PHE:CE2	2.40	0.56
1:P:654:TRP:CE2	1:P:666:GLY:HA3	2.40	0.56
1:C:224:ASP:OD1	1:C:225:PHE:N	2.38	0.56
1:H:149:ALA:O	1:H:150:PHE:HB3	2.06	0.56
1:D:870:VAL:HG12	1:D:871:GLU:N	2.20	0.56
1:B:906:TYR:HB3	1:B:907:PRO:CD	2.35	0.56
1:C:352:ARG:HB2	1:C:385:ASN:HB2	1.86	0.56
1:P:735:HIS:N	1:P:735:HIS:ND1	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:704:ASN:N	1:H:704:ASN:OD1	2.39	0.56
1:O:102:ASN:HA	1:O:201:ASP:OD1	2.05	0.56
1:E:443:MET:CE	1:E:456:TRP:HE3	2.19	0.56
1:D:737:ILE:HB	1:D:738:PRO:HD2	1.87	0.56
1:N:965:GLN:O	1:N:969:GLU:HG3	2.04	0.56
1:M:3:ILE:HG23	1:M:4:THR:H	1.70	0.56
1:H:653:HIS:HE2	1:H:667:GLU:CD	2.09	0.56
1:H:187:MET:CE	1:H:189:LEU:HD21	2.34	0.56
1:D:100:TYR:HB2	1:D:203:TRP:CE3	2.40	0.56
1:I:125:LEU:HG	1:I:126:THR:N	2.20	0.56
1:H:5:ASP:OD1	1:H:157:ARG:HA	2.05	0.56
1:M:946:TYR:CD2	1:M:959:ILE:HD11	2.40	0.56
1:I:100:TYR:CD1	1:I:602:CYS:HB3	2.40	0.56
1:B:418:HIS:ND1	1:B:461:GLU:OE2	2.39	0.56
1:M:412:GLU:CB	1:M:457:SER:HB3	2.35	0.56
1:G:316:HIS:HA	1:G:323:ILE:HD12	1.86	0.56
1:F:79:PRO:HD2	1:F:80:GLU:CG	2.34	0.56
1:J:204:ARG:N	1:J:204:ARG:HD3	2.21	0.56
1:H:360:HIS:CB	1:H:363:HIS:HB2	2.35	0.56
1:O:44:THR:O	1:O:45:ASP:C	2.43	0.56
1:B:422:PRO:CG	1:C:279:ILE:HD11	2.35	0.56
1:I:662:PRO:C	1:I:663:LEU:HD23	2.26	0.56
1:G:147:ASN:HB2	1:G:209:PHE:CE1	2.40	0.56
1:B:409:VAL:HG12	1:B:410:VAL:N	2.21	0.56
1:E:764:PHE:O	1:E:765:LEU:C	2.43	0.56
1:F:53:SER:O	1:F:54:LEU:HD23	2.06	0.56
1:I:890:GLN:HG3	1:I:891:VAL:N	2.19	0.56
1:L:17:GLU:OE1	1:L:113:PHE:HA	2.06	0.56
1:F:942:ARG:HA	1:F:953:GLY:O	2.06	0.56
1:F:636:ILE:HB	1:F:680:ILE:HB	1.88	0.56
1:A:577:LYS:O	1:A:584:PRO:HA	2.06	0.56
1:I:28:ALA:O	1:I:30:HIS:HD2	1.89	0.56
1:I:764:PHE:O	1:I:766:SER:N	2.39	0.56
1:A:570:TRP:O	1:A:607:VAL:HG22	2.06	0.56
1:A:414:ASN:HB3	3:A:1262:HOH:O	2.04	0.56
1:P:909:ARG:HD3	1:P:993:ILE:CD1	2.27	0.56
1:P:382:ASN:OD1	1:P:617:LEU:HG	2.05	0.56
1:P:376:ILE:HD11	1:P:398:TRP:CZ3	2.41	0.56
1:P:608:PHE:O	1:P:611:ARG:N	2.27	0.56
1:E:590:GLY:N	1:E:597:ASN:ND2	2.54	0.56
1:H:814:GLY:O	1:H:815:HIS:C	2.42	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:145:GLY:N	1:P:210:ARG:HB2	2.21	0.56
1:E:128:ASN:HA	1:E:180:GLY:O	2.06	0.56
1:O:103:VAL:HG22	1:O:418:HIS:CE1	2.41	0.56
1:D:433:LEU:HD12	1:D:433:LEU:C	2.26	0.56
1:B:302:SER:HB2	1:B:304:GLU:H	1.71	0.56
1:A:368:ASP:OD2	1:A:370:GLN:HB2	2.06	0.56
1:E:5:ASP:OD2	1:E:157:ARG:HA	2.05	0.56
1:N:447:ASP:HA	3:N:1206:HOH:O	2.05	0.56
1:G:421:VAL:O	1:G:425:ARG:NH1	2.38	0.56
1:F:737:ILE:HB	1:F:738:PRO:CD	2.36	0.56
1:O:200:GLN:HA	1:O:416:GLU:OE1	2.05	0.56
1:O:473:ARG:HD3	1:O:473:ARG:O	2.05	0.56
1:H:606:LEU:HD13	1:H:617:LEU:HD12	1.88	0.56
1:G:782:ASP:HA	1:G:884:LEU:HD23	1.86	0.56
1:H:236:SER:C	1:H:237:ARG:HG2	2.25	0.56
1:B:375:ASP:O	1:B:379:MET:HG3	2.05	0.56
1:A:479:ASP:OD2	1:A:482:ARG:NH1	2.36	0.56
1:A:416:GLU:OE2	1:A:418:HIS:HB2	2.06	0.56
1:P:141:ILE:HD11	1:P:212:VAL:CG1	2.35	0.56
1:M:147:ASN:HB2	1:M:209:PHE:CE2	2.40	0.56
1:M:574:SER:HB3	1:M:603:MET:SD	2.46	0.56
1:K:260:LEU:O	1:K:267:VAL:HG23	2.06	0.56
1:H:166:ARG:HG2	1:H:414:ASN:CG	2.24	0.56
1:A:254:LEU:O	1:A:255:ARG:HD3	2.05	0.56
1:G:703:PRO:O	1:G:711:ALA:HB1	2.06	0.56
1:L:796:SER:OG	1:L:802:ASP:N	2.27	0.56
1:E:4:THR:CG2	1:H:12:GLN:HG2	2.34	0.56
1:K:188:VAL:O	1:K:189:LEU:HD23	2.05	0.56
1:A:567:VAL:HG12	1:A:568:TRP:N	2.20	0.56
1:E:284:GLY:O	1:H:422:PRO:HD3	2.05	0.56
1:D:237:ARG:NH1	1:D:237:ARG:HG3	2.20	0.56
1:B:977:HIS:HD2	1:B:978:ALA:O	1.89	0.56
1:H:351:ILE:N	1:H:563:GLN:O	2.35	0.56
1:J:231:PHE:CD2	1:J:238:ALA:HB2	2.41	0.56
1:F:110:ASN:O	1:F:113:PHE:HB2	2.05	0.56
1:D:424:ASN:ND2	1:D:464:HIS:O	2.38	0.56
1:A:464:HIS:HB2	1:A:489:GLY:HA3	1.88	0.56
1:N:663:LEU:HD23	1:N:663:LEU:N	2.20	0.56
1:M:65:ALA:CB	1:M:67:GLU:HG3	2.36	0.56
1:A:202:MET:HE3	1:A:357:HIS:CD2	2.39	0.56
1:P:382:ASN:HA	1:P:621:LYS:HD2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:512:PHE:HE2	1:M:517:LYS:HG3	1.70	0.56
1:H:894:ARG:HH22	1:H:921:PRO:HD3	1.67	0.56
1:E:65:ALA:HB1	1:E:66:PRO:CD	2.35	0.56
1:K:261:TRP:CZ3	1:K:266:GLN:HB2	2.40	0.56
1:P:155:ASN:ND2	1:P:182:ASN:OD1	2.38	0.56
1:K:262:GLN:NE2	1:K:299:LYS:HD2	2.17	0.56
1:H:192:SER:O	1:H:195:SER:HB2	2.06	0.56
1:C:258:VAL:CG1	1:C:293:LEU:HD11	2.34	0.56
1:K:738:PRO:HB2	1:K:834:VAL:CG2	2.36	0.56
1:C:91:GLN:HG2	1:C:98:PRO:HA	1.86	0.56
1:B:650:GLU:HB3	1:B:670:LEU:HB2	1.87	0.56
1:G:73:TRP:CZ2	1:G:185:ALA:HB1	2.41	0.56
1:M:111:PRO:HG3	1:M:196:TYR:CE2	2.41	0.56
1:N:90:TRP:HE1	1:N:96:ASP:CG	2.08	0.56
1:B:553:TRP:O	1:B:557:ARG:HG3	2.06	0.56
1:L:429:ASP:OD1	1:L:430:PRO:HD2	2.05	0.56
1:F:237:ARG:HG3	1:F:237:ARG:HH11	1.70	0.56
1:I:869:ASP:OD1	1:I:1015:HIS:ND1	2.35	0.56
1:N:347:LYS:CB	1:N:643:LEU:HD13	2.36	0.56
1:N:330:VAL:HA	3:N:1267:HOH:O	2.05	0.56
1:B:287:ASP:N	1:B:287:ASP:OD1	2.29	0.56
1:M:657:ALA:HA	1:M:661:LYS:O	2.04	0.56
1:H:493:THR:HG23	3:H:1206:HOH:O	2.05	0.56
1:J:487:GLU:O	1:J:491:ALA:N	2.34	0.56
1:E:259:SER:O	1:E:311:ALA:HA	2.06	0.56
1:P:932:PRO:O	1:P:933:SER:HB3	2.06	0.56
1:P:274:PHE:HD2	1:P:288:ARG:N	2.03	0.56
1:P:942:ARG:NH2	1:P:954:ASP:OD2	2.34	0.56
1:M:614:HIS:HB3	1:M:615:PRO:CD	2.36	0.56
1:F:890:GLN:OE1	1:F:948:PRO:HD3	2.05	0.56
1:M:127:PHE:O	1:M:182:ASN:N	2.30	0.56
1:H:7:LEU:N	1:H:71:GLU:OE2	2.39	0.56
1:P:788:PRO:HB3	1:P:807:VAL:CG2	2.35	0.56
1:K:274:PHE:HA	1:K:289:VAL:HB	1.87	0.56
1:G:316:HIS:HB2	1:G:321:THR:O	2.04	0.56
1:E:658:LEU:O	1:E:661:LYS:HB2	2.04	0.56
1:F:132:SER:OG	1:F:133:TRP:N	2.39	0.56
1:L:84:VAL:HG12	1:L:85:VAL:H	1.71	0.56
1:J:23:GLN:HA	1:J:161:TYR:O	2.05	0.56
1:G:750:GLU:CG	1:G:755:ARG:HG2	2.36	0.56
1:J:14:ARG:NH1	1:J:14:ARG:HG2	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:759:ASN:OD1	1:D:761:GLN:N	2.29	0.56
1:L:53:SER:OG	1:L:55:ASN:HB2	2.06	0.56
1:H:942:ARG:NE	1:H:954:ASP:OD2	2.38	0.56
1:L:292:ARG:HH11	1:L:292:ARG:HG3	1.71	0.56
1:C:893:GLU:OE1	1:C:893:GLU:HA	2.06	0.56
1:D:626:PHE:O	1:D:641:GLU:HB2	2.06	0.56
1:L:230:ARG:O	1:L:238:ALA:HA	2.06	0.56
1:B:403:ASP:OD2	1:B:450:HIS:ND1	2.32	0.56
1:I:38:ASN:ND2	1:I:41:GLU:H	2.02	0.56
1:A:241:GLU:HG3	1:A:292:ARG:HG2	1.86	0.56
1:E:415:ILE:HG12	1:E:439:ARG:HD3	1.88	0.56
1:J:351:ILE:HD13	1:J:351:ILE:N	2.19	0.56
1:M:447:ASP:O	1:M:449:ASN:N	2.39	0.56
1:F:708:TRP:CE3	1:F:709:SER:HB3	2.41	0.56
1:G:360:HIS:ND1	1:G:363:HIS:N	2.42	0.56
1:M:651:LEU:O	1:M:701:VAL:N	2.28	0.56
1:E:377:LEU:CD2	1:E:708:TRP:HA	2.35	0.56
1:J:227:VAL:HG12	1:J:240:LEU:HD11	1.85	0.56
1:K:14:ARG:CG	1:K:14:ARG:HH11	2.17	0.56
1:L:317:THR:HG23	1:L:323:ILE:HD11	1.88	0.56
1:H:367:MET:HE2	1:H:372:MET:HG3	1.87	0.56
1:N:377:LEU:HD23	1:N:708:TRP:HA	1.88	0.56
1:K:701:VAL:HG22	1:K:714:ILE:HD13	1.88	0.56
1:O:671:ASP:N	1:O:678:GLN:OE1	2.31	0.56
1:H:141:ILE:HA	1:H:214:LEU:HD23	1.87	0.56
1:F:210:ARG:HH11	1:F:395:HIS:HA	1.70	0.56
1:K:943:GLU:OE2	1:K:945:ASN:ND2	2.32	0.56
1:G:706:THR:OG1	1:G:709:SER:N	2.39	0.56
1:K:70:PRO:O	1:K:73:TRP:N	2.35	0.56
1:J:796:SER:OG	1:J:802:ASP:N	2.29	0.56
1:D:619:GLU:HG2	1:D:909:ARG:HG3	1.88	0.56
1:P:550:ALA:HB2	1:P:623:GLN:CD	2.26	0.56
1:N:932:PRO:HG2	1:N:970:THR:O	2.05	0.56
1:K:637:GLU:HG2	1:K:637:GLU:O	2.06	0.56
1:J:285:TYR:HB3	1:J:288:ARG:HG3	1.88	0.56
1:C:73:TRP:CZ2	1:C:122:CYS:HB3	2.41	0.56
1:H:745:MET:HE2	1:H:761:GLN:HE21	1.70	0.56
1:N:369:GLU:O	1:N:373:VAL:HG23	2.06	0.56
1:P:994:GLY:HA3	1:P:1003:VAL:CG2	2.35	0.56
1:M:433:LEU:HA	1:M:467:ASN:HD22	1.70	0.56
1:E:706:THR:O	1:E:707:ALA:C	2.43	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:148:SER:HB3	1:H:190:ARG:O	2.06	0.56
1:F:66:PRO:CB	1:F:187:MET:HE1	2.35	0.56
1:G:906:TYR:HB3	1:G:907:PRO:CD	2.33	0.56
1:F:658:LEU:O	1:F:659:ASP:C	2.43	0.56
1:D:133:TRP:C	1:D:134:LEU:HD23	2.27	0.56
1:K:622:HIS:HB2	1:K:717:TRP:CZ2	2.41	0.56
1:F:18:ASN:N	1:F:193:ASP:OD2	2.39	0.56
1:L:461:GLU:HA	3:L:1240:HOH:O	2.05	0.56
1:O:375:ASP:OD2	1:O:611:ARG:NH2	2.32	0.56
1:O:200:GLN:HG2	1:O:391:HIS:HB2	1.87	0.56
1:N:255:ARG:HD2	1:N:273:PRO:CA	2.36	0.56
1:H:789:LEU:HG	1:H:792:ASP:OD2	2.06	0.56
1:D:881:ARG:O	1:D:882:ILE:HG13	2.06	0.56
1:D:816:TYR:HB2	3:D:1213:HOH:O	2.05	0.56
1:C:624:GLN:NE2	3:C:1215:HOH:O	2.39	0.56
1:C:285:TYR:HB3	1:C:288:ARG:HG3	1.86	0.56
1:B:737:ILE:HG13	1:B:737:ILE:O	1.97	0.56
1:N:454:ILE:HG13	1:N:455:ILE:HG13	1.87	0.56
1:H:72:SER:O	1:H:76:CYS:N	2.28	0.56
1:H:262:GLN:HE22	1:H:299:LYS:HD3	1.71	0.56
1:F:499:ILE:HB	1:F:533:LEU:HB2	1.88	0.56
1:P:160:GLY:HA3	1:P:171:PHE:CE2	2.41	0.55
1:M:327:ALA:O	1:M:328:CYS:HB3	2.06	0.55
1:E:36:TRP:CG	1:E:42:ALA:HB2	2.41	0.55
1:O:929:TYR:O	1:O:931:PHE:N	2.39	0.55
1:I:210:ARG:NH1	1:I:395:HIS:N	2.55	0.55
1:E:542:MET:CE	1:E:601:PHE:HA	2.36	0.55
1:P:107:ILE:HG12	1:P:108:THR:N	2.21	0.55
1:I:18:ASN:HD22	1:I:21:VAL:HG23	1.68	0.55
1:C:728:VAL:HG12	1:D:823:LEU:HD11	1.88	0.55
1:C:653:HIS:NE2	1:C:667:GLU:HG2	2.20	0.55
1:C:316:HIS:HD2	1:C:320:GLY:HA2	1.71	0.55
1:K:189:LEU:N	1:K:189:LEU:HD23	2.20	0.55
1:A:568:TRP:CD2	1:A:569:ASP:HB3	2.41	0.55
1:L:637:GLU:HB2	1:L:679:LEU:HD21	1.88	0.55
1:L:118:ASN:O	1:L:120:THR:N	2.40	0.55
1:D:579:ASP:OD1	1:D:583:ASN:N	2.32	0.55
1:A:597:ASN:ND2	1:A:599:ARG:H	2.04	0.55
1:J:499:ILE:HB	1:J:533:LEU:CD2	2.36	0.55
1:E:524:LEU:HD11	1:E:562:LEU:HG	1.88	0.55
1:J:541:ALA:HB3	1:J:604:ASN:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:246:MET:HG2	1:L:274:PHE:CZ	2.41	0.55
1:G:390:SER:HA	1:G:391:HIS:ND1	2.21	0.55
1:L:937:LEU:HD13	1:L:990:HIS:CD2	2.40	0.55
1:D:917:ARG:HH22	1:D:943:GLU:CD	2.10	0.55
1:I:882:ILE:HD12	1:I:1009:LEU:HD13	1.89	0.55
1:G:814:GLY:O	1:G:815:HIS:C	2.42	0.55
1:K:868:VAL:HG11	1:K:1016:TYR:CE1	2.41	0.55
1:M:485:GLN:HA	1:M:496:THR:OG1	2.06	0.55
1:I:646:HIS:NE2	1:I:671:ASP:OD1	2.38	0.55
1:M:317:THR:HG23	1:M:323:ILE:HD11	1.86	0.55
1:E:814:GLY:O	1:E:815:HIS:C	2.43	0.55
1:N:695:TRP:CE2	1:N:721:ARG:HG3	2.40	0.55
1:H:785:THR:HB	3:H:1254:HOH:O	2.06	0.55
1:D:822:LEU:HD12	1:D:824:GLN:H	1.71	0.55
1:K:227:VAL:HG13	1:K:240:LEU:HD11	1.88	0.55
1:H:26:ARG:HD2	3:H:1225:HOH:O	2.06	0.55
1:H:205:MET:HE3	1:H:365:GLN:CG	2.35	0.55
1:L:928:PRO:O	1:L:973:ARG:NH1	2.38	0.55
1:B:856:TYR:CD2	1:B:864:MET:HE2	2.42	0.55
1:P:433:LEU:HB3	1:P:434:PRO:HD3	1.89	0.55
1:A:6:SER:OG	1:A:9:VAL:HG23	2.04	0.55
1:O:647:SER:HA	1:O:650:GLU:OE1	2.06	0.55
1:O:651:LEU:CD1	1:O:669:PRO:HA	2.36	0.55
1:M:881:ARG:NH1	1:M:987:ASP:OD2	2.38	0.55
1:D:202:MET:HE3	1:D:357:HIS:CD2	2.41	0.55
1:J:7:LEU:HD13	1:J:74:LEU:HD11	1.88	0.55
1:L:223:SER:O	1:L:224:ASP:HB2	2.06	0.55
1:L:473:ARG:O	1:L:474:TRP:C	2.45	0.55
1:N:178:ARG:HG2	1:N:179:ALA:N	2.21	0.55
1:G:730:LEU:HD23	1:G:730:LEU:N	2.22	0.55
1:B:654:TRP:NE1	1:B:666:GLY:HA3	2.21	0.55
1:F:391:HIS:HA	1:F:412:GLU:OE1	2.06	0.55
1:J:131:GLU:O	1:J:132:SER:C	2.44	0.55
1:E:493:THR:HG23	3:E:1204:HOH:O	2.06	0.55
1:N:479:ASP:OD2	1:N:482:ARG:NH1	2.38	0.55
1:G:493:THR:HG23	3:G:1205:HOH:O	2.06	0.55
1:L:772:ASP:N	1:L:772:ASP:OD1	2.29	0.55
1:J:748:CYS:C	1:J:749:ILE:HG12	2.26	0.55
1:M:30:HIS:HB2	1:M:31:PRO:CD	2.34	0.55
1:P:651:LEU:N	1:P:701:VAL:O	2.32	0.55
1:M:419:GLY:HA2	1:P:282:ARG:NH1	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:414:ASN:O	1:P:439:ARG:NH1	2.32	0.55
1:E:79:PRO:HG2	1:E:80:GLU:CG	2.36	0.55
1:F:653:HIS:NE2	1:F:667:GLU:HG2	2.21	0.55
1:A:38:ASN:ND2	1:A:41:GLU:H	1.99	0.55
1:L:471:LEU:O	1:L:475:ILE:HG13	2.07	0.55
1:N:287:ASP:CG	1:O:425:ARG:HH22	2.10	0.55
1:E:250:LEU:O	1:E:251:ARG:HG2	2.07	0.55
1:E:274:PHE:HD2	1:E:288:ARG:N	2.04	0.55
1:O:409:VAL:HG12	1:O:410:VAL:N	2.21	0.55
1:G:937:LEU:HG	1:G:938:ARG:H	1.72	0.55
1:M:545:SER:O	1:M:909:ARG:HD3	2.05	0.55
1:B:341:LEU:CD2	1:B:561:ARG:HG2	2.37	0.55
1:B:316:HIS:HB2	1:B:321:THR:O	2.05	0.55
1:G:531:ARG:HB3	1:G:532:PRO:HD2	1.88	0.55
1:N:44:THR:O	1:N:46:ARG:N	2.39	0.55
1:D:869:ASP:OD1	1:D:1015:HIS:ND1	2.39	0.55
1:G:36:TRP:CE2	1:G:42:ALA:HA	2.42	0.55
1:K:608:PHE:HB2	1:K:612:THR:HB	1.89	0.55
1:N:41:GLU:O	1:N:42:ALA:C	2.45	0.55
1:N:673:ALA:O	1:N:676:GLY:N	2.35	0.55
1:I:166:ARG:HB2	1:I:414:ASN:HD22	1.71	0.55
1:O:102:ASN:ND2	1:O:201:ASP:HB2	2.21	0.55
1:P:781:ARG:O	1:P:885:ASN:N	2.35	0.55
1:E:854:LYS:HA	1:E:867:THR:O	2.06	0.55
1:E:400:THR:O	1:E:404:ARG:HD2	2.07	0.55
1:B:1004:SER:HB2	1:B:1006:GLU:OE2	2.06	0.55
1:G:696:LEU:O	1:G:719:GLN:HB2	2.06	0.55
1:P:382:ASN:HD22	1:P:382:ASN:N	2.04	0.55
1:P:285:TYR:CB	1:P:288:ARG:HB2	2.36	0.55
1:K:743:SER:OG	1:K:744:GLU:N	2.39	0.55
1:P:251:ARG:HD2	1:P:253:TYR:OH	2.06	0.55
1:L:703:PRO:O	1:L:711:ALA:HB1	2.06	0.55
1:M:698:VAL:O	1:M:717:TRP:HA	2.07	0.55
1:H:454:ILE:HD12	1:H:455:ILE:CG1	2.34	0.55
1:L:583:ASN:HD22	1:L:583:ASN:H	1.39	0.55
1:L:127:PHE:O	1:L:182:ASN:N	2.39	0.55
1:K:18:ASN:N	1:K:193:ASP:OD2	2.38	0.55
1:G:970:THR:HG22	1:G:975:LEU:HB2	1.89	0.55
1:F:43:ARG:O	1:F:310:ARG:HD3	2.07	0.55
1:A:316:HIS:N	1:A:316:HIS:ND1	2.53	0.55
1:A:217:LYS:NZ	1:A:324:GLU:OE2	2.30	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:14:ARG:NH1	1:L:14:ARG:HG2	2.21	0.55
1:G:305:ILE:O	1:G:307:ASN:N	2.39	0.55
1:D:236:SER:C	1:D:237:ARG:HG2	2.26	0.55
1:M:748:CYS:C	1:M:749:ILE:HG12	2.26	0.55
1:I:836:ILE:HG22	1:I:837:THR:N	2.22	0.55
1:E:869:ASP:OD1	1:E:1015:HIS:HB2	2.05	0.55
1:K:1018:LEU:CD2	1:K:1019:VAL:H	2.19	0.55
1:G:246:MET:HG2	1:G:274:PHE:CE2	2.41	0.55
1:C:275:GLY:HA2	1:C:285:TYR:O	2.06	0.55
1:N:695:TRP:CZ2	1:N:721:ARG:HD3	2.40	0.55
1:F:418:HIS:ND1	1:F:461:GLU:OE2	2.39	0.55
1:G:888:LEU:O	1:G:981:GLY:HA3	2.07	0.55
1:P:239:VAL:HG22	1:P:294:ASN:OD1	2.07	0.55
1:N:772:ASP:N	1:N:772:ASP:OD1	2.29	0.55
1:M:781:ARG:O	1:M:884:LEU:HA	2.06	0.55
1:C:485:GLN:HA	1:C:496:THR:OG1	2.07	0.55
1:K:31:PRO:CB	1:K:32:PRO:HD2	2.36	0.55
1:D:471:LEU:O	1:D:475:ILE:HG13	2.05	0.55
1:D:5:ASP:OD2	1:D:157:ARG:HA	2.07	0.55
1:M:66:PRO:C	1:M:68:ALA:H	2.09	0.55
1:P:955:PHE:CD2	1:P:986:ILE:HG23	2.42	0.55
1:P:378:LEU:O	1:P:381:GLN:HB2	2.07	0.55
1:P:100:TYR:HD2	1:P:598:ASP:H	1.55	0.55
1:M:571:VAL:HG11	1:M:611:ARG:CZ	2.36	0.55
1:G:258:VAL:CG1	1:G:293:LEU:HD11	2.36	0.55
1:I:400:THR:HG22	1:I:404:ARG:HD2	1.88	0.55
1:C:40:GLU:HG3	1:C:43:ARG:NH1	2.21	0.55
1:J:6:SER:O	1:J:10:VAL:HG23	2.07	0.55
1:E:210:ARG:HH11	1:E:395:HIS:CA	2.19	0.55
1:A:651:LEU:CD1	1:A:669:PRO:HA	2.36	0.55
1:P:205:MET:HE1	1:P:364:GLY:C	2.27	0.55
1:D:360:HIS:CE1	1:D:361:PRO:HD2	2.41	0.55
1:H:269:SER:OG	1:H:270:GLY:N	2.40	0.55
1:M:906:TYR:HB3	1:M:907:PRO:CD	2.35	0.55
1:C:970:THR:CG2	1:C:975:LEU:HB2	2.37	0.55
1:N:579:ASP:OD1	1:N:583:ASN:N	2.29	0.55
1:E:520:ILE:HD12	1:E:562:LEU:HD22	1.87	0.55
1:N:573:GLN:NE2	3:N:1257:HOH:O	2.40	0.55
1:F:347:LYS:HB2	1:F:643:LEU:HD13	1.87	0.55
1:K:959:ILE:HD12	1:K:984:LEU:HD13	1.88	0.55
1:F:974:HIS:C	1:F:975:LEU:HD23	2.26	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:105:TYR:CD2	1:E:109:VAL:HG21	2.42	0.55
1:E:204:ARG:N	1:E:204:ARG:HD3	2.21	0.55
1:C:835:LEU:HD12	1:C:856:TYR:O	2.05	0.55
1:N:653:HIS:CD2	1:N:667:GLU:HG2	2.41	0.55
1:H:62:TRP:CD1	1:H:95:TYR:HB3	2.41	0.55
1:J:624:GLN:NE2	3:J:1216:HOH:O	2.39	0.55
1:O:868:VAL:HB	1:O:1016:TYR:CE1	2.42	0.55
1:D:38:ASN:ND2	1:D:41:GLU:H	2.04	0.55
1:H:409:VAL:HG12	1:H:410:VAL:N	2.21	0.55
1:N:699:ARG:NH1	1:N:714:ILE:HD11	2.22	0.55
1:G:942:ARG:HA	1:G:953:GLY:O	2.06	0.55
1:I:255:ARG:HB3	1:I:316:HIS:CE1	2.40	0.55
1:P:27:LEU:HB2	1:P:170:GLU:HB2	1.89	0.55
1:M:540:HIS:O	1:M:542:MET:N	2.31	0.55
1:P:616:ALA:O	1:P:617:LEU:C	2.42	0.55
1:M:195:SER:O	1:M:198:GLU:N	2.32	0.55
1:O:533:LEU:HD12	1:O:533:LEU:C	2.27	0.55
1:M:374:GLN:O	1:M:377:LEU:N	2.39	0.55
1:G:86:VAL:HG13	1:G:87:PRO:CA	2.34	0.55
1:H:486:TYR:CZ	1:H:488:GLY:HA3	2.41	0.55
1:J:701:VAL:HG22	1:J:714:ILE:HD12	1.89	0.55
1:K:159:VAL:HG22	1:K:176:PHE:CE2	2.41	0.55
1:G:140:ARG:HB2	1:G:171:PHE:O	2.06	0.55
1:K:899:GLY:O	1:K:918:TRP:NE1	2.39	0.55
1:M:844:HIS:O	1:M:847:LYS:N	2.36	0.55
1:O:272:ALA:HB1	1:O:273:PRO:HD2	1.88	0.55
1:H:776:LEU:N	1:H:776:LEU:HD23	2.21	0.55
1:H:475:ILE:O	1:H:479:ASP:N	2.30	0.55
1:N:577:LYS:NZ	1:N:591:ASP:O	2.28	0.55
1:G:832:ASP:OD1	1:G:832:ASP:N	2.40	0.55
1:I:465:GLY:O	1:I:468:HIS:N	2.39	0.55
1:G:518:TRP:O	1:G:519:SER:C	2.39	0.55
1:G:767:GLN:CD	1:G:768:MET:H	2.09	0.55
1:P:538:TYR:O	1:P:567:VAL:HG13	2.06	0.55
1:L:166:ARG:HG2	1:L:392:TYR:CB	2.34	0.55
1:H:13:ARG:O	1:H:14:ARG:HB2	2.07	0.55
1:H:66:PRO:CB	1:H:187:MET:HE1	2.37	0.55
1:D:415:ILE:HG13	1:D:439:ARG:HD3	1.89	0.55
1:M:274:PHE:HB3	1:M:286:ALA:O	2.07	0.55
1:I:579:ASP:N	1:I:583:ASN:O	2.40	0.55
1:M:746:ASP:HA	1:M:760:ARG:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:7:LEU:HB2	1:A:71:GLU:OE2	2.06	0.55
1:F:658:LEU:HD12	1:F:659:ASP:H	1.70	0.55
1:P:770:ILE:O	1:P:773:LYS:HG3	2.07	0.55
1:N:316:HIS:N	1:N:316:HIS:ND1	2.54	0.55
1:G:738:PRO:CA	1:G:751:LEU:HD13	2.36	0.55
1:P:854:LYS:HD2	1:P:856:TYR:OH	2.06	0.55
1:D:102:ASN:HD22	1:D:201:ASP:HB2	1.72	0.55
1:I:660:GLY:O	1:I:662:PRO:HD3	2.07	0.55
1:P:356:ARG:HG2	1:P:356:ARG:HH11	1.72	0.55
1:H:658:LEU:HD22	1:H:688:PRO:HG2	1.89	0.55
1:P:54:LEU:O	1:P:58:TRP:NE1	2.28	0.55
1:K:73:TRP:HZ2	1:K:123:TYR:O	1.89	0.55
1:O:618:THR:HG22	1:O:912:ALA:CB	2.36	0.55
1:N:816:TYR:HB2	3:N:1211:HOH:O	2.07	0.55
1:C:968:MET:HG3	1:C:968:MET:O	2.05	0.55
1:K:893:GLU:HA	1:K:893:GLU:OE1	2.06	0.55
1:A:59:ARG:HH21	1:A:81:ALA:HB3	1.72	0.55
1:K:726:LEU:HD13	1:L:851:ILE:HD12	1.89	0.55
1:E:465:GLY:O	1:E:468:HIS:HB2	2.06	0.55
1:M:90:TRP:NE1	1:M:91:GLN:NE2	2.54	0.55
1:P:906:TYR:HB3	1:P:907:PRO:CD	2.34	0.55
1:M:200:GLN:NE2	1:M:392:TYR:HD2	2.03	0.55
1:O:10:VAL:C	1:O:11:LEU:HD23	2.26	0.55
1:O:7:LEU:N	1:O:71:GLU:OE2	2.33	0.55
1:E:87:PRO:HB2	1:E:209:PHE:HA	1.87	0.55
1:O:262:GLN:HE22	1:O:299:LYS:CD	2.15	0.55
1:D:767:GLN:CD	1:D:774:LYS:HB3	2.27	0.55
1:L:36:TRP:HD1	1:L:41:GLU:HB2	1.72	0.55
1:L:41:GLU:O	1:L:42:ALA:C	2.43	0.55
1:M:885:ASN:HB2	1:M:984:LEU:O	2.06	0.55
1:F:668:VAL:HG12	1:F:669:PRO:N	2.20	0.55
1:O:409:VAL:HG23	1:O:452:SER:HB2	1.88	0.55
1:K:777:LEU:HG	1:K:889:ALA:HA	1.88	0.55
1:F:155:ASN:ND2	1:F:182:ASN:OD1	2.29	0.55
1:G:910:LEU:HA	3:G:1289:HOH:O	2.06	0.55
1:K:877:PRO:O	1:K:878:HIS:C	2.43	0.55
1:K:972:HIS:CB	1:K:974:HIS:HD2	2.19	0.55
1:A:433:LEU:N	1:A:434:PRO:HD2	2.21	0.55
1:O:857:ARG:HH11	1:O:857:ARG:CG	2.20	0.55
1:N:620:ALA:O	1:N:621:LYS:C	2.44	0.55
1:B:232:ASN:OD1	1:B:235:PHE:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:202:MET:HE3	1:B:357:HIS:CD2	2.42	0.55
1:L:200:GLN:HG3	1:L:416:GLU:OE1	2.06	0.55
1:E:487:GLU:HA	1:E:491:ALA:HA	1.87	0.55
1:G:388:ARG:O	1:G:390:SER:N	2.39	0.55
1:K:921:PRO:O	1:K:922:LEU:C	2.44	0.55
1:K:1013:ARG:HG3	1:K:1013:ARG:HH11	1.72	0.55
1:L:934:GLU:HG3	1:L:935:ASN:N	2.16	0.55
1:G:555:ALA:O	1:G:556:PHE:C	2.39	0.55
1:O:989:PHE:CE2	1:O:1014:TYR:HB3	2.42	0.55
1:J:347:LYS:HB3	1:J:643:LEU:HD22	1.88	0.55
1:I:759:ASN:OD1	1:I:761:GLN:N	2.38	0.55
1:F:808:GLU:OE1	1:F:808:GLU:HA	2.07	0.55
1:M:200:GLN:HE21	1:M:391:HIS:HB2	1.71	0.55
1:M:419:GLY:HA2	1:P:282:ARG:HH11	1.72	0.55
1:M:282:ARG:HG3	1:P:423:MET:HG2	1.89	0.55
1:H:23:GLN:HG2	1:H:26:ARG:HE	1.72	0.55
1:H:127:PHE:CE1	1:H:184:LEU:HD12	2.41	0.55
1:I:625:GLN:NE2	1:I:716:ALA:HB1	2.22	0.55
1:C:583:ASN:OD1	1:C:583:ASN:N	2.28	0.55
1:E:907:PRO:HG2	1:E:990:HIS:O	2.07	0.55
1:L:114:VAL:HG21	1:L:191:TRP:C	2.27	0.55
1:O:91:GLN:HG3	1:O:96:ASP:OD1	2.07	0.55
1:B:832:ASP:O	1:B:833:ALA:HB2	2.07	0.55
1:L:351:ILE:O	1:L:564:GLY:HA3	2.06	0.55
1:I:502:MET:CB	1:I:537:GLU:HB2	2.36	0.55
1:N:133:TRP:C	1:N:134:LEU:HD23	2.28	0.55
1:H:853:ARG:NH1	1:H:871:GLU:OE2	2.39	0.55
1:D:315:LEU:O	1:D:323:ILE:HB	2.07	0.55
1:O:249:GLU:OE1	1:O:251:ARG:NH2	2.40	0.55
1:L:696:LEU:HB2	1:L:722:LEU:HD11	1.88	0.55
1:C:696:LEU:HB2	1:C:722:LEU:HD11	1.89	0.55
1:B:572:ASP:OD1	1:B:603:MET:HB3	2.06	0.55
1:J:870:VAL:HG12	1:J:871:GLU:N	2.22	0.55
1:C:890:GLN:HG3	1:C:891:VAL:H	1.72	0.55
1:N:51:LEU:HD12	1:N:52:ARG:N	2.22	0.55
1:H:280:ASP:OD1	1:H:280:ASP:N	2.37	0.55
1:H:937:LEU:HG	1:H:938:ARG:H	1.72	0.55
1:B:227:VAL:CG1	1:B:240:LEU:HD11	2.37	0.55
1:L:493:THR:HB	3:L:1206:HOH:O	2.07	0.55
1:M:6:SER:O	1:M:9:VAL:HB	2.07	0.55
1:M:100:TYR:CE1	1:M:598:ASP:HB2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:91:GLN:HB3	1:M:98:PRO:HD3	1.89	0.55
1:P:100:TYR:O	1:P:597:ASN:HA	2.07	0.55
1:M:387:VAL:CG1	1:M:407:LEU:HD12	2.37	0.55
1:K:842:TRP:C	1:K:843:GLN:HG3	2.26	0.55
1:P:941:THR:O	1:P:954:ASP:HA	2.07	0.55
1:G:906:TYR:O	1:G:910:LEU:HD23	2.06	0.55
1:A:322:LEU:HD23	1:A:323:ILE:N	2.21	0.55
1:L:500:CYS:HA	1:L:534:ILE:O	2.07	0.55
1:N:891:VAL:O	1:N:891:VAL:HG12	2.06	0.55
1:E:503:TYR:N	1:E:537:GLU:O	2.31	0.55
1:K:333:ARG:HD3	1:K:451:PRO:O	2.07	0.55
1:D:881:ARG:C	1:D:882:ILE:HG13	2.27	0.55
1:G:814:GLY:O	1:G:816:TYR:N	2.39	0.55
1:B:500:CYS:HA	1:B:534:ILE:O	2.07	0.55
1:G:542:MET:HG3	1:G:603:MET:O	2.06	0.55
1:E:806:TRP:O	1:E:809:ARG:HB2	2.06	0.55
1:I:109:VAL:HG22	1:I:196:TYR:HE2	1.72	0.55
1:B:59:ARG:NH2	1:B:81:ALA:O	2.40	0.55
1:J:53:SER:C	1:J:54:LEU:HD23	2.28	0.55
1:C:767:GLN:OE1	1:C:768:MET:N	2.30	0.55
1:P:651:LEU:HD12	1:P:652:LEU:N	2.22	0.54
1:F:38:ASN:HD22	1:F:41:GLU:CG	2.12	0.54
1:C:622:HIS:HB2	1:C:717:TRP:CZ2	2.42	0.54
1:O:100:TYR:HE1	1:O:598:ASP:CB	2.21	0.54
1:H:126:THR:OG1	1:H:183:ARG:HG3	2.07	0.54
1:J:66:PRO:HB3	1:J:187:MET:CE	2.37	0.54
1:I:573:GLN:HB2	1:I:602:CYS:O	2.06	0.54
1:L:218:PRO:O	1:L:221:GLN:NE2	2.36	0.54
1:C:579:ASP:CG	1:C:580:GLU:H	2.10	0.54
1:P:813:ALA:HB3	1:P:815:HIS:CD2	2.41	0.54
1:G:125:LEU:HG	1:G:126:THR:N	2.22	0.54
1:G:500:CYS:HA	1:G:534:ILE:O	2.06	0.54
1:C:764:PHE:O	1:C:766:SER:N	2.40	0.54
1:A:390:SER:HB2	1:A:391:HIS:ND1	2.22	0.54
1:J:287:ASP:N	1:J:287:ASP:OD1	2.33	0.54
1:M:409:VAL:HG12	1:M:410:VAL:N	2.22	0.54
1:E:1015:HIS:NE2	1:E:1017:GLN:OE1	2.38	0.54
1:P:553:TRP:HZ2	3:P:1215:HOH:O	1.90	0.54
1:G:900:LEU:HB3	1:G:913:ALA:HB1	1.87	0.54
1:O:759:ASN:OD1	1:O:761:GLN:N	2.30	0.54
1:C:152:LEU:HG	1:C:153:TRP:N	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:881:ARG:HD3	1:K:987:ASP:OD1	2.06	0.54
1:K:595:THR:HG23	1:K:596:PRO:HA	1.89	0.54
1:D:786:ARG:HH11	1:D:990:HIS:HE1	1.53	0.54
1:N:7:LEU:HD21	1:N:69:VAL:HB	1.89	0.54
1:G:577:LYS:O	1:G:584:PRO:HA	2.06	0.54
1:E:117:GLU:N	1:E:117:GLU:OE1	2.36	0.54
1:E:439:ARG:CG	1:E:439:ARG:HH11	2.17	0.54
1:E:42:ALA:O	1:E:310:ARG:NH1	2.40	0.54
1:M:427:THR:HG22	1:M:436:MET:CE	2.37	0.54
1:K:568:TRP:CE2	1:K:569:ASP:HB3	2.42	0.54
1:H:778:THR:OG1	1:H:887:GLN:HB3	2.07	0.54
1:L:322:LEU:HD23	1:L:322:LEU:C	2.27	0.54
1:H:906:TYR:HB3	1:H:907:PRO:HD2	1.90	0.54
1:J:340:GLY:C	1:J:341:LEU:HD23	2.27	0.54
1:B:237:ARG:HG3	1:B:237:ARG:NH1	2.21	0.54
1:K:210:ARG:HH11	1:K:395:HIS:HA	1.73	0.54
1:L:27:LEU:HD23	1:L:27:LEU:N	2.21	0.54
1:D:218:PRO:HD2	1:D:324:GLU:OE2	2.06	0.54
1:K:337:ILE:HA	1:K:341:LEU:O	2.07	0.54
1:E:443:MET:HE3	1:E:456:TRP:HE3	1.72	0.54
1:H:350:LEU:HA	1:H:563:GLN:O	2.08	0.54
1:P:500:CYS:HA	1:P:534:ILE:O	2.06	0.54
1:D:545:SER:OG	1:D:791:ASN:ND2	2.35	0.54
1:E:832:ASP:N	1:E:832:ASP:OD1	2.39	0.54
1:A:409:VAL:HG23	1:A:452:SER:HB2	1.89	0.54
1:E:352:ARG:HB2	1:E:385:ASN:HB2	1.89	0.54
1:D:138:GLN:HG3	1:D:172:ASP:OD2	2.06	0.54
1:D:194:GLY:O	1:D:198:GLU:HG3	2.07	0.54
1:A:202:MET:CE	1:A:357:HIS:HD2	2.20	0.54
1:M:217:LYS:HG2	1:M:324:GLU:OE2	2.07	0.54
1:M:99:ILE:HG13	1:M:594:ASP:HB3	1.90	0.54
1:M:23:GLN:HE21	1:M:26:ARG:HB3	1.73	0.54
1:E:114:VAL:HG21	1:E:192:SER:N	2.22	0.54
1:E:60:PHE:HB3	1:E:84:VAL:HG21	1.89	0.54
1:L:701:VAL:HG22	1:L:714:ILE:CD1	2.37	0.54
1:M:801:ILE:HD13	1:M:808:GLU:CD	2.27	0.54
1:P:796:SER:HB2	1:P:802:ASP:CB	2.37	0.54
1:M:397:LEU:HD12	1:M:397:LEU:C	2.27	0.54
1:K:974:HIS:CE1	1:K:975:LEU:HD21	2.42	0.54
1:E:386:ALA:HB1	1:E:408:TYR:O	2.07	0.54
1:N:382:ASN:OD1	1:N:621:LYS:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:46:ARG:HB3	1:L:47:PRO:CD	2.37	0.54
1:G:257:THR:OG1	1:G:271:THR:HG23	2.07	0.54
1:L:195:SER:O	1:L:197:LEU:N	2.39	0.54
1:O:906:TYR:HB3	1:O:907:PRO:CD	2.37	0.54
1:O:26:ARG:HD2	1:O:442:ARG:HH22	1.72	0.54
1:L:769:TRP:NE1	1:L:774:LYS:HG3	2.22	0.54
1:O:132:SER:HA	1:O:135:GLN:NE2	2.22	0.54
1:B:69:VAL:HG21	1:B:122:CYS:SG	2.47	0.54
1:N:37:ARG:HH21	1:N:218:PRO:HD3	1.71	0.54
1:C:836:ILE:HG22	1:C:837:THR:N	2.21	0.54
1:H:936:GLY:HA2	1:H:938:ARG:HH21	1.73	0.54
1:M:465:GLY:N	1:M:468:HIS:ND1	2.47	0.54
1:K:400:THR:O	1:K:404:ARG:HD2	2.08	0.54
1:F:647:SER:OG	1:F:672:VAL:HG23	2.07	0.54
1:D:26:ARG:HD2	1:D:442:ARG:NH2	2.22	0.54
1:P:269:SER:OG	1:P:270:GLY:N	2.40	0.54
1:P:652:LEU:HD12	1:P:699:ARG:O	2.07	0.54
1:M:413:ALA:HA	1:M:443:MET:HE2	1.88	0.54
1:P:275:GLY:HA2	1:P:286:ALA:HA	1.88	0.54
1:P:392:TYR:HB2	1:P:393:PRO:HD2	1.90	0.54
1:H:110:ASN:O	1:H:113:PHE:N	2.40	0.54
1:O:597:ASN:HD22	1:O:599:ARG:H	1.53	0.54
1:A:261:TRP:CH2	1:A:266:GLN:HB2	2.43	0.54
1:L:23:GLN:HA	1:L:162:GLY:HA2	1.89	0.54
1:F:102:ASN:HD22	1:F:201:ASP:CB	2.18	0.54
1:O:857:ARG:HH11	1:O:857:ARG:HG2	1.71	0.54
1:O:43:ARG:HD2	1:O:261:TRP:CD2	2.43	0.54
1:K:906:TYR:HB3	1:K:907:PRO:HD2	1.89	0.54
1:L:30:HIS:ND1	1:L:33:PHE:CE2	2.75	0.54
1:F:937:LEU:HD12	1:F:957:PHE:O	2.08	0.54
1:O:34:ALA:O	1:O:35:SER:HB3	2.06	0.54
1:F:502:MET:O	1:F:502:MET:HG3	2.07	0.54
1:N:984:LEU:HD21	1:N:986:ILE:HG13	1.89	0.54
1:A:305:ILE:HD11	1:A:645:ARG:HB3	1.90	0.54
1:G:487:GLU:O	1:G:491:ALA:N	2.38	0.54
1:I:823:LEU:HD11	1:J:728:VAL:HG12	1.89	0.54
1:I:347:LYS:HB3	1:I:643:LEU:HD22	1.88	0.54
1:B:835:LEU:HD12	1:B:857:ARG:HB2	1.88	0.54
1:B:754:LYS:HA	1:B:769:TRP:O	2.07	0.54
1:E:26:ARG:NH1	1:E:442:ARG:HH12	2.06	0.54
1:H:465:GLY:O	1:H:468:HIS:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:651:LEU:CD1	1:H:669:PRO:HA	2.38	0.54
1:H:651:LEU:HD12	1:H:668:VAL:O	2.06	0.54
1:C:573:GLN:HB2	1:C:602:CYS:O	2.06	0.54
1:N:282:ARG:HH11	1:O:419:GLY:HA2	1.70	0.54
1:K:835:LEU:HD12	1:K:856:TYR:O	2.07	0.54
1:J:337:ILE:HA	1:J:341:LEU:O	2.08	0.54
1:E:807:VAL:HG13	1:E:808:GLU:N	2.22	0.54
1:H:367:MET:HB3	1:H:372:MET:HE3	1.88	0.54
1:H:18:ASN:CG	1:H:21:VAL:HG23	2.28	0.54
1:F:85:VAL:O	1:F:88:SER:HB3	2.08	0.54
1:B:232:ASN:ND2	1:B:237:ARG:H	2.06	0.54
1:M:523:TRP:HA	1:M:526:LEU:CD1	2.37	0.54
1:G:636:ILE:HD13	1:G:698:VAL:HG11	1.90	0.54
1:A:579:ASP:CG	1:A:583:ASN:HB2	2.27	0.54
1:G:36:TRP:CD2	1:G:42:ALA:HB2	2.43	0.54
1:M:960:SER:HA	3:M:1269:HOH:O	2.07	0.54
1:J:30:HIS:HB2	1:J:31:PRO:HD2	1.90	0.54
1:F:234:ASP:OD1	1:F:236:SER:OG	2.26	0.54
1:K:955:PHE:HB2	1:K:987:ASP:O	2.07	0.54
1:L:743:SER:OG	1:L:744:GLU:N	2.41	0.54
1:B:13:ARG:HD2	1:B:15:ASP:OD2	2.07	0.54
1:P:357:HIS:HE1	1:P:568:TRP:HH2	1.56	0.54
1:O:7:LEU:HB2	1:O:71:GLU:OE2	2.07	0.54
1:K:66:PRO:O	1:K:69:VAL:HG23	2.06	0.54
1:E:123:TYR:H	1:E:123:TYR:HD1	1.56	0.54
1:P:946:TYR:CE2	1:P:959:ILE:HD11	2.41	0.54
1:K:598:ASP:O	1:K:599:ARG:HG3	2.07	0.54
1:B:897:TRP:CZ2	1:B:918:TRP:HB2	2.43	0.54
1:E:211:ASP:OD1	1:E:211:ASP:N	2.29	0.54
1:K:555:ALA:O	1:K:556:PHE:C	2.46	0.54
1:B:701:VAL:HG22	1:B:714:ILE:CD1	2.38	0.54
1:O:78:LEU:HB3	1:O:79:PRO:HD2	1.90	0.54
1:O:474:TRP:CE2	1:O:478:VAL:HG21	2.42	0.54
1:G:533:LEU:O	1:G:534:ILE:HG12	2.08	0.54
1:N:46:ARG:HB3	1:N:47:PRO:HD2	1.90	0.54
1:L:163:GLN:NE2	1:L:193:ASP:OD2	2.39	0.54
1:N:949:HIS:HD2	1:N:1020:TRP:HE1	1.54	0.54
1:E:638:VAL:O	1:E:677:LYS:HA	2.08	0.54
1:M:748:CYS:O	1:M:749:ILE:HG12	2.08	0.54
1:K:899:GLY:HA2	1:K:915:PHE:CE1	2.43	0.54
1:H:658:LEU:HD22	1:H:688:PRO:CG	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:38:ASN:HD22	1:D:41:GLU:HG3	1.73	0.54
1:M:547:GLY:N	1:M:994:GLY:O	2.37	0.54
1:J:777:LEU:HG	1:J:889:ALA:HA	1.88	0.54
1:M:375:ASP:O	1:M:379:MET:HG3	2.08	0.54
1:B:360:HIS:HE1	1:B:362:LEU:HD12	1.73	0.54
1:J:649:ASN:O	1:J:702:GLN:HA	2.07	0.54
1:J:344:LEU:C	1:J:344:LEU:HD23	2.27	0.54
1:J:549:PHE:O	1:J:550:ALA:C	2.44	0.54
1:K:129:VAL:HG23	1:K:182:ASN:ND2	2.23	0.54
1:N:139:THR:O	1:N:173:LEU:N	2.30	0.54
1:P:140:ARG:O	1:P:214:LEU:HD22	2.07	0.54
1:K:824:GLN:O	1:K:824:GLN:HG2	2.07	0.54
1:H:14:ARG:HH11	1:H:14:ARG:CG	2.20	0.54
1:D:857:ARG:HG2	1:D:857:ARG:NH1	2.13	0.54
1:K:533:LEU:HD12	1:K:533:LEU:C	2.28	0.54
1:E:378:LEU:HB3	1:E:570:TRP:HH2	1.73	0.54
1:C:188:VAL:C	1:C:189:LEU:HD23	2.27	0.54
1:A:246:MET:HG2	1:A:274:PHE:CZ	2.42	0.54
1:O:131:GLU:O	1:O:134:LEU:HB2	2.08	0.54
1:F:937:LEU:HG	1:F:938:ARG:N	2.22	0.54
1:D:232:ASN:ND2	1:D:234:ASP:OD1	2.41	0.54
1:F:333:ARG:NH1	1:F:454:ILE:HG22	2.23	0.54
1:I:814:GLY:O	1:I:815:HIS:C	2.45	0.54
1:A:658:LEU:O	1:A:659:ASP:C	2.44	0.54
1:G:1018:LEU:HD22	1:G:1019:VAL:H	1.73	0.54
1:N:333:ARG:NH1	1:N:451:PRO:O	2.40	0.54
1:G:108:THR:HG22	1:G:109:VAL:N	2.23	0.54
1:I:552:TYR:O	1:I:555:ALA:HB3	2.08	0.54
1:M:958:ASN:HB2	3:M:1264:HOH:O	2.08	0.54
1:F:190:ARG:HD3	1:F:191:TRP:CZ2	2.42	0.54
1:D:844:HIS:CE1	1:D:845:GLN:HG3	2.42	0.54
1:E:15:ASP:HB2	1:E:161:TYR:CE2	2.43	0.54
1:M:360:HIS:O	1:M:364:GLY:N	2.37	0.54
1:P:102:ASN:N	1:P:598:ASP:OD2	2.41	0.54
1:P:706:THR:OG1	1:P:709:SER:N	2.40	0.54
1:M:568:TRP:HE1	1:M:604:ASN:HD22	1.55	0.54
1:K:427:THR:HG21	1:K:462:SER:HB3	1.90	0.54
1:P:423:MET:HE1	1:P:461:GLU:HB3	1.89	0.54
1:M:127:PHE:N	1:M:182:ASN:O	2.30	0.54
1:E:891:VAL:O	1:E:891:VAL:HG12	2.08	0.54
1:J:66:PRO:N	1:J:120:THR:OG1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:904:GLU:HG3	1:D:906:TYR:CE1	2.43	0.54
1:F:307:ASN:C	1:F:308:LEU:HD23	2.28	0.54
1:A:524:LEU:O	1:A:561:ARG:NH2	2.40	0.54
1:H:499:ILE:HG13	1:H:532:PRO:O	2.07	0.54
1:B:997:ASP:HB2	1:B:999:TRP:CZ2	2.43	0.54
1:K:907:PRO:CA	1:K:910:LEU:HD23	2.37	0.54
1:C:784:PHE:HA	1:C:881:ARG:O	2.08	0.54
1:N:943:GLU:HA	1:N:951:TRP:O	2.08	0.54
1:L:653:HIS:HD2	1:L:667:GLU:HG3	1.71	0.54
1:A:695:TRP:CE3	1:A:719:GLN:HG3	2.43	0.54
1:H:673:ALA:O	1:H:676:GLY:N	2.37	0.54
1:O:658:LEU:HD23	1:O:661:LYS:NZ	2.22	0.54
1:N:652:LEU:HD12	1:N:699:ARG:O	2.08	0.54
1:O:743:SER:HB3	1:O:746:ASP:OD1	2.08	0.54
1:L:149:ALA:O	1:L:150:PHE:HB3	2.06	0.54
1:N:616:ALA:O	1:N:619:GLU:N	2.41	0.54
1:A:127:PHE:CE1	1:A:184:LEU:HG	2.43	0.54
1:N:176:PHE:O	1:N:177:LEU:C	2.43	0.54
1:O:748:CYS:O	1:O:749:ILE:HD12	2.08	0.54
1:F:114:VAL:HG21	1:F:192:SER:N	2.23	0.54
1:O:36:TRP:O	1:O:37:ARG:HD3	2.07	0.54
1:L:438:GLU:O	1:L:442:ARG:HB2	2.07	0.54
1:P:777:LEU:HD21	1:P:889:ALA:CB	2.38	0.54
1:P:17:GLU:OE1	1:P:113:PHE:HD1	1.90	0.54
1:P:140:ARG:CG	1:P:215:LEU:HB3	2.37	0.54
1:P:203:TRP:HE1	1:P:575:LEU:HG	1.72	0.54
1:K:782:ASP:HB2	1:K:842:TRP:CZ2	2.43	0.54
1:K:6:SER:O	1:K:9:VAL:N	2.39	0.54
1:I:608:PHE:O	1:I:611:ARG:N	2.30	0.54
1:J:65:ALA:CB	1:J:66:PRO:HD2	2.30	0.54
1:H:835:LEU:HD12	1:H:856:TYR:O	2.07	0.54
1:L:127:PHE:CE1	1:L:184:LEU:HG	2.38	0.54
1:P:73:TRP:CZ2	1:P:185:ALA:HB1	2.43	0.54
1:L:369:GLU:HG2	1:L:397:LEU:HD21	1.90	0.54
1:K:878:HIS:HD2	1:K:1010:SER:HB3	1.72	0.54
1:C:40:GLU:CG	1:C:43:ARG:HH12	2.21	0.54
1:K:485:GLN:HA	1:K:496:THR:OG1	2.07	0.54
1:K:645:ARG:HB2	1:K:645:ARG:HH11	1.73	0.54
1:N:36:TRP:CD2	1:N:42:ALA:HB2	2.43	0.54
1:J:246:MET:HG2	1:J:274:PHE:CZ	2.42	0.54
1:E:693:GLN:HG2	1:E:721:ARG:HD2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:140:ARG:HG2	1:O:215:LEU:HB3	1.89	0.54
1:F:237:ARG:HH11	1:F:237:ARG:CG	2.21	0.54
1:G:750:GLU:HG3	1:G:755:ARG:HG2	1.89	0.54
1:M:905:ASN:OD1	1:M:939:CYS:HB2	2.07	0.54
1:I:881:ARG:NH2	1:I:964:GLN:OE1	2.41	0.54
1:B:575:LEU:O	1:B:587:ALA:N	2.30	0.54
1:I:703:PRO:O	1:I:711:ALA:HB1	2.08	0.54
1:O:446:ARG:O	1:O:446:ARG:HG2	2.07	0.54
1:M:689:GLU:O	1:M:690:SER:C	2.46	0.54
1:B:118:ASN:O	1:B:119:PRO:C	2.44	0.54
1:E:545:SER:O	1:E:546:LEU:HB2	2.08	0.54
1:J:349:LEU:CD1	1:J:351:ILE:HD11	2.27	0.54
1:H:696:LEU:O	1:H:719:GLN:HA	2.08	0.54
1:P:625:GLN:HB2	1:P:716:ALA:HB2	1.90	0.54
1:M:608:PHE:HB2	1:M:612:THR:O	2.08	0.54
1:M:928:PRO:O	1:M:973:ARG:HD2	2.08	0.54
1:I:69:VAL:HG11	1:I:73:TRP:CE3	2.43	0.54
1:N:822:LEU:CD1	1:N:824:GLN:H	2.21	0.54
1:N:240:LEU:HD12	1:N:241:GLU:N	2.21	0.54
1:G:740:LEU:HG	1:G:741:THR:N	2.21	0.54
1:N:279:ILE:HD11	1:O:422:PRO:CG	2.38	0.54
1:B:373:VAL:HG12	1:B:377:LEU:HD11	1.90	0.54
1:D:199:ASP:OD2	1:D:419:GLY:N	2.38	0.54
1:I:90:TRP:HE3	1:I:123:TYR:OH	1.91	0.54
1:F:655:MET:HG2	1:F:655:MET:O	2.07	0.54
1:M:616:ALA:O	1:M:619:GLU:N	2.40	0.54
1:O:51:LEU:HD13	1:O:215:LEU:HD13	1.90	0.54
1:M:14:ARG:HH11	1:M:14:ARG:CG	2.21	0.54
1:O:376:ILE:HD13	1:O:401:LEU:HB3	1.90	0.54
1:I:454:ILE:HG13	1:I:455:ILE:HG13	1.90	0.54
1:H:753:ASN:N	1:H:753:ASN:OD1	2.37	0.54
1:P:138:GLN:HG2	1:P:139:THR:N	2.22	0.53
1:P:107:ILE:HG13	1:P:115:PRO:HD3	1.89	0.53
1:K:9:VAL:O	1:K:10:VAL:C	2.47	0.53
1:O:600:GLN:HB3	1:O:603:MET:CE	2.38	0.53
1:I:571:VAL:HG12	1:I:607:VAL:HG23	1.90	0.53
1:K:360:HIS:CE1	1:K:362:LEU:H	2.24	0.53
1:M:131:GLU:O	1:M:132:SER:C	2.46	0.53
1:B:600:GLN:NE2	1:B:790:ASP:OD1	2.40	0.53
1:M:260:LEU:O	1:M:267:VAL:N	2.28	0.53
1:E:577:LYS:HD3	1:E:585:TRP:CZ2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:275:GLY:HA2	1:I:285:TYR:O	2.08	0.53
1:B:341:LEU:HD23	1:B:341:LEU:N	2.20	0.53
1:L:595:THR:HA	1:L:596:PRO:C	2.29	0.53
1:O:26:ARG:HH12	1:O:163:GLN:H	1.55	0.53
1:K:200:GLN:NE2	1:K:391:HIS:O	2.41	0.53
1:E:653:HIS:HD2	1:E:667:GLU:HB3	1.70	0.53
1:H:223:SER:O	1:H:224:ASP:HB2	2.09	0.53
1:H:701:VAL:HG12	1:H:712:GLY:HA2	1.90	0.53
1:I:897:TRP:CH2	1:I:918:TRP:HB2	2.43	0.53
1:F:932:PRO:HG2	1:F:970:THR:O	2.07	0.53
1:A:14:ARG:HH11	1:A:14:ARG:CG	2.21	0.53
1:O:232:ASN:ND2	1:O:237:ARG:HG2	2.23	0.53
1:A:23:GLN:O	1:A:24:LEU:HD13	2.08	0.53
1:G:259:SER:HB3	1:G:269:SER:HB2	1.89	0.53
1:C:802:ASP:O	1:C:804:ASN:N	2.41	0.53
1:H:524:LEU:HD13	1:H:561:ARG:HB2	1.89	0.53
1:G:647:SER:HG	1:G:672:VAL:H	1.51	0.53
1:N:493:THR:HG23	3:N:1207:HOH:O	2.08	0.53
1:F:244:VAL:HG12	1:F:245:GLN:N	2.22	0.53
1:M:597:ASN:HD22	1:M:599:ARG:H	1.56	0.53
1:A:356:ARG:HG2	1:A:356:ARG:NH1	2.04	0.53
1:E:599:ARG:HB2	1:E:600:GLN:OE1	2.08	0.53
1:M:114:VAL:HG13	1:M:115:PRO:N	2.23	0.53
1:L:930:VAL:O	1:L:932:PRO:HD3	2.08	0.53
1:I:59:ARG:NH2	1:I:81:ALA:O	2.29	0.53
1:L:974:HIS:CE1	1:L:975:LEU:HD21	2.44	0.53
1:M:856:TYR:HD2	1:M:864:MET:CE	2.20	0.53
1:N:395:HIS:O	1:N:396:PRO:C	2.46	0.53
1:P:365:GLN:O	1:P:366:VAL:C	2.47	0.53
1:G:571:VAL:HG12	1:G:609:ALA:HA	1.90	0.53
1:N:58:TRP:CE2	1:N:125:LEU:HD22	2.43	0.53
1:F:79:PRO:HD2	1:F:80:GLU:HG2	1.90	0.53
1:H:6:SER:O	1:H:9:VAL:HB	2.08	0.53
1:I:896:ASN:HA	1:I:918:TRP:O	2.08	0.53
1:O:955:PHE:HB2	1:O:987:ASP:O	2.07	0.53
1:N:797:GLU:O	1:N:799:THR:N	2.41	0.53
1:H:54:LEU:O	1:H:58:TRP:NE1	2.41	0.53
1:P:297:ASN:HD22	1:P:297:ASN:N	2.04	0.53
1:F:533:LEU:HD12	1:F:533:LEU:C	2.27	0.53
1:D:3:ILE:C	1:D:5:ASP:H	2.12	0.53
1:O:36:TRP:CE2	1:O:42:ALA:HA	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:960:SER:N	3:I:1254:HOH:O	2.41	0.53
1:P:629:PHE:CD2	1:P:638:VAL:HG22	2.43	0.53
1:A:31:PRO:CB	1:A:32:PRO:HD2	2.38	0.53
1:F:125:LEU:HG	1:F:126:THR:N	2.22	0.53
1:A:757:GLN:O	1:A:765:LEU:HD12	2.07	0.53
1:H:106:PRO:HG3	1:H:204:ARG:HG3	1.91	0.53
1:M:487:GLU:O	1:M:491:ALA:N	2.40	0.53
1:M:387:VAL:HG23	1:M:388:ARG:N	2.23	0.53
1:E:59:ARG:CZ	1:E:81:ALA:HB3	2.39	0.53
1:N:280:ASP:O	1:N:282:ARG:N	2.42	0.53
1:L:965:GLN:O	1:L:969:GLU:HG3	2.08	0.53
1:L:974:HIS:O	1:L:975:LEU:HD23	2.08	0.53
1:K:738:PRO:CA	1:K:751:LEU:HD12	2.38	0.53
1:P:518:TRP:O	1:P:519:SER:C	2.45	0.53
1:P:205:MET:CE	1:P:365:GLN:HG3	2.38	0.53
1:A:742:THR:CG2	1:A:743:SER:H	2.21	0.53
1:G:316:HIS:HA	1:G:323:ILE:HD13	1.89	0.53
1:H:558:GLN:HB3	1:H:559:TYR:HD1	1.72	0.53
1:P:765:LEU:C	1:P:765:LEU:HD12	2.29	0.53
1:O:44:THR:O	1:O:46:ARG:N	2.41	0.53
1:K:802:ASP:O	1:K:804:ASN:N	2.42	0.53
1:K:647:SER:HA	1:K:650:GLU:OE1	2.08	0.53
1:C:205:MET:O	1:C:206:SER:HB3	2.09	0.53
1:M:161:TYR:O	1:M:171:PHE:HZ	1.91	0.53
1:L:390:SER:HA	1:L:391:HIS:ND1	2.24	0.53
1:H:941:THR:O	1:H:954:ASP:HA	2.09	0.53
1:H:262:GLN:HB2	1:H:309:TYR:CE2	2.43	0.53
1:F:501:PRO:HD2	1:F:533:LEU:HD13	1.91	0.53
1:O:232:ASN:HD21	1:O:237:ARG:HG2	1.71	0.53
1:K:964:GLN:O	1:K:967:LEU:HB2	2.09	0.53
1:N:192:SER:O	1:N:195:SER:HB2	2.07	0.53
1:L:336:ARG:NH2	1:L:338:GLU:OE2	2.42	0.53
1:H:573:GLN:NE2	3:H:1255:HOH:O	2.41	0.53
1:P:902:PRO:HG3	1:P:918:TRP:CE3	2.43	0.53
1:P:937:LEU:HG	1:P:957:PHE:O	2.08	0.53
1:M:355:ASN:ND2	1:M:355:ASN:N	2.48	0.53
1:M:479:ASP:OD1	1:M:481:SER:HB3	2.08	0.53
1:H:653:HIS:HD2	1:H:667:GLU:HG2	1.68	0.53
1:L:123:TYR:CD1	1:L:123:TYR:N	2.77	0.53
1:M:822:LEU:CD1	1:M:824:GLN:H	2.15	0.53
1:B:52:ARG:NH2	1:B:128:ASN:O	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:90:TRP:CZ3	1:P:121:GLY:HA3	2.43	0.53
1:H:615:PRO:HD2	3:H:1287:HOH:O	2.08	0.53
1:I:246:MET:HG2	1:I:274:PHE:CE2	2.42	0.53
1:I:36:TRP:C	1:I:37:ARG:HG2	2.28	0.53
1:D:581:ASN:HB2	1:D:583:ASN:ND2	2.23	0.53
1:N:919:ASP:O	1:N:920:LEU:HD23	2.07	0.53
1:A:955:PHE:HB2	1:A:987:ASP:O	2.08	0.53
1:K:157:ARG:O	1:K:159:VAL:HG23	2.08	0.53
1:I:439:ARG:NH1	1:I:439:ARG:HG2	2.24	0.53
1:L:337:ILE:HA	1:L:341:LEU:O	2.08	0.53
1:M:14:ARG:HG2	1:M:14:ARG:HH11	1.73	0.53
1:J:945:ASN:OD1	1:J:950:GLN:HB2	2.07	0.53
1:K:870:VAL:HG12	1:K:871:GLU:N	2.22	0.53
1:L:868:VAL:HB	1:L:1016:TYR:CE1	2.43	0.53
1:L:587:ALA:HB1	1:L:591:ASP:HB2	1.89	0.53
1:E:234:ASP:O	1:E:235:PHE:C	2.44	0.53
1:L:968:MET:O	1:L:968:MET:HG2	2.09	0.53
1:E:344:LEU:HD13	1:E:349:LEU:HD11	1.89	0.53
1:F:432:TRP:HA	3:F:1210:HOH:O	2.08	0.53
1:P:161:TYR:CG	1:P:162:GLY:N	2.76	0.53
1:P:317:THR:CG2	1:P:323:ILE:HD11	2.37	0.53
1:L:959:ILE:HG13	1:L:984:LEU:CD1	2.34	0.53
1:O:572:ASP:HB3	1:O:603:MET:HG2	1.91	0.53
1:P:43:ARG:NH2	1:P:264:GLU:HG2	2.24	0.53
1:A:38:ASN:ND2	1:A:40:GLU:H	2.07	0.53
1:H:202:MET:HE3	1:H:392:TYR:HE2	1.74	0.53
1:P:636:ILE:HG22	1:P:637:GLU:N	2.24	0.53
1:D:251:ARG:HD2	1:D:253:TYR:CZ	2.44	0.53
1:C:316:HIS:HA	1:C:323:ILE:CD1	2.33	0.53
1:L:129:VAL:HG23	1:L:182:ASN:ND2	2.24	0.53
1:N:14:ARG:CG	1:N:14:ARG:HH11	2.22	0.53
1:E:786:ARG:HH11	1:E:990:HIS:HE1	1.57	0.53
1:C:246:MET:HG2	1:C:274:PHE:CZ	2.44	0.53
1:A:370:GLN:O	1:A:371:THR:C	2.46	0.53
1:O:78:LEU:N	1:O:78:LEU:HD23	2.17	0.53
1:H:902:PRO:HG3	1:H:918:TRP:CZ3	2.43	0.53
1:L:13:ARG:O	1:L:14:ARG:HB2	2.09	0.53
1:M:382:ASN:ND2	1:M:382:ASN:N	2.57	0.53
1:J:742:THR:CG2	1:J:743:SER:H	2.21	0.53
1:K:928:PRO:O	1:K:973:ARG:HD3	2.09	0.53
1:D:218:PRO:O	1:D:221:GLN:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:131:GLU:O	1:H:134:LEU:HB2	2.08	0.53
1:C:856:TYR:HD2	1:C:864:MET:HE2	1.73	0.53
1:C:757:GLN:OE1	1:C:769:TRP:HH2	1.91	0.53
1:G:619:GLU:HG2	1:G:909:ARG:HG3	1.90	0.53
1:L:375:ASP:OD1	1:L:570:TRP:NE1	2.29	0.53
1:C:851:ILE:HG21	1:C:853:ARG:NH1	2.24	0.53
1:D:262:GLN:HB2	1:D:309:TYR:CE1	2.44	0.53
1:N:974:HIS:O	1:N:975:LEU:HD23	2.09	0.53
1:K:43:ARG:NH2	1:K:264:GLU:HG2	2.23	0.53
1:P:293:LEU:HD23	1:P:293:LEU:N	2.24	0.53
1:H:572:ASP:OD1	1:H:603:MET:HB3	2.09	0.53
1:H:1011:ALA:HB3	1:H:1014:TYR:CZ	2.42	0.53
1:K:767:GLN:HG3	1:K:768:MET:N	2.24	0.53
1:C:599:ARG:HB2	1:C:600:GLN:HG3	1.91	0.53
1:D:79:PRO:CG	1:D:80:GLU:HG3	2.37	0.53
1:D:78:LEU:CB	1:D:79:PRO:HD2	2.30	0.53
1:P:90:TRP:HE1	1:P:96:ASP:CG	2.11	0.53
1:I:100:TYR:CZ	1:I:602:CYS:HB3	2.43	0.53
1:I:282:ARG:HH11	1:L:419:GLY:HA2	1.72	0.53
1:G:662:PRO:C	1:G:663:LEU:HD23	2.29	0.53
1:H:682:LEU:HB3	1:H:683:PRO:CD	2.37	0.53
1:P:444:VAL:HG21	1:P:475:ILE:HD13	1.90	0.53
1:H:823:LEU:HB2	1:H:839:ALA:O	2.08	0.53
1:H:18:ASN:HB3	1:H:21:VAL:HG23	1.91	0.53
1:P:455:ILE:CG2	1:P:485:GLN:HG2	2.39	0.53
1:L:14:ARG:HG2	1:L:14:ARG:HH11	1.74	0.53
1:N:501:PRO:HG3	1:N:523:TRP:CZ3	2.43	0.53
1:N:541:ALA:HB3	1:N:604:ASN:O	2.07	0.53
1:P:804:ASN:N	1:P:804:ASN:HD22	2.06	0.53
1:L:856:TYR:HD2	1:L:864:MET:CE	2.22	0.53
1:G:658:LEU:O	1:G:661:LYS:N	2.29	0.53
1:O:768:MET:HG2	1:O:769:TRP:N	2.24	0.53
1:C:393:PRO:HD3	1:C:412:GLU:O	2.07	0.53
1:C:24:LEU:HB2	1:C:161:TYR:HB3	1.91	0.53
1:L:110:ASN:O	1:L:113:PHE:N	2.39	0.53
1:A:438:GLU:O	1:A:442:ARG:HG3	2.07	0.53
1:J:620:ALA:O	1:J:621:LYS:C	2.44	0.53
1:C:117:GLU:CD	1:C:117:GLU:H	2.11	0.53
1:A:278:ILE:N	1:A:278:ILE:HD12	2.24	0.53
1:J:557:ARG:HE	1:J:641:GLU:CD	2.12	0.53
1:L:718:GLN:HG3	1:L:719:GLN:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:499:ILE:HB	1:C:533:LEU:HD22	1.89	0.53
1:P:3:ILE:O	1:P:9:VAL:HG21	2.09	0.53
1:P:162:GLY:O	1:P:163:GLN:HG2	2.07	0.53
1:M:217:LYS:HD3	1:M:221:GLN:HB2	1.90	0.53
1:P:381:GLN:NE2	1:P:708:TRP:O	2.29	0.53
1:L:377:LEU:HD22	1:L:708:TRP:CA	2.31	0.53
1:H:166:ARG:HG3	1:H:392:TYR:CB	2.37	0.53
1:M:891:VAL:O	1:M:891:VAL:HG12	2.09	0.53
1:F:261:TRP:CZ2	1:F:266:GLN:HG3	2.43	0.53
1:J:881:ARG:HH11	1:J:987:ASP:CG	2.12	0.53
1:A:473:ARG:C	1:A:473:ARG:HD3	2.25	0.53
1:G:7:LEU:CD1	1:G:74:LEU:HD11	2.37	0.53
1:M:747:PHE:CD1	1:M:760:ARG:HD2	2.43	0.53
1:B:341:LEU:HD21	1:B:561:ARG:HG2	1.91	0.53
1:O:261:TRP:CH2	1:O:266:GLN:HB2	2.44	0.53
1:A:100:TYR:O	1:A:597:ASN:HA	2.09	0.53
1:O:890:GLN:O	1:O:891:VAL:HG23	2.09	0.53
1:G:499:ILE:O	1:G:533:LEU:HD13	2.08	0.53
1:M:523:TRP:CD1	1:M:526:LEU:HD12	2.43	0.53
1:E:474:TRP:O	1:E:478:VAL:HG23	2.08	0.53
1:P:849:LEU:HB3	1:P:850:PHE:CZ	2.43	0.53
1:O:130:ASP:OD2	1:O:132:SER:HB3	2.08	0.53
1:P:856:TYR:HD2	1:P:864:MET:HE2	1.72	0.53
1:H:398:TRP:O	1:H:401:LEU:HB2	2.08	0.53
1:N:310:ARG:HG3	1:N:328:CYS:O	2.08	0.53
1:J:92:MET:HE3	1:J:362:LEU:O	2.08	0.53
1:L:155:ASN:ND2	1:L:176:PHE:O	2.37	0.53
1:H:237:ARG:NH1	1:H:237:ARG:HG3	2.24	0.53
1:G:542:MET:HA	1:G:604:ASN:HA	1.90	0.53
1:D:23:GLN:OE1	1:D:26:ARG:HB3	2.07	0.53
1:B:618:THR:HG22	1:B:912:ALA:HB1	1.91	0.53
1:O:30:HIS:HB2	1:O:31:PRO:HD2	1.90	0.53
1:I:367:MET:HB3	1:I:372:MET:HE2	1.90	0.53
1:D:627:PHE:C	1:D:628:GLN:HG2	2.28	0.53
1:D:910:LEU:HD12	1:D:910:LEU:C	2.29	0.53
1:N:879:PRO:O	1:N:1009:LEU:HD12	2.08	0.53
1:P:777:LEU:HD21	1:P:889:ALA:HB1	1.91	0.53
1:M:778:THR:HG22	1:M:779:PRO:CD	2.38	0.53
1:P:547:GLY:HA2	1:P:908:ASP:O	2.09	0.53
1:G:166:ARG:CG	1:G:392:TYR:HB2	2.39	0.53
1:P:402:CYS:HB3	1:P:407:LEU:CB	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:624:GLN:O	1:P:625:GLN:C	2.46	0.53
1:M:355:ASN:OD1	1:M:388:ARG:HD3	2.09	0.53
1:P:192:SER:O	1:P:195:SER:HB2	2.08	0.53
1:P:209:PHE:CD1	1:P:210:ARG:HG2	2.44	0.53
1:F:654:TRP:HA	1:F:697:THR:O	2.08	0.53
1:M:309:TYR:O	1:M:329:ASP:HA	2.08	0.53
1:C:37:ARG:HH21	1:C:218:PRO:HD3	1.74	0.53
1:J:10:VAL:HG21	1:J:153:TRP:HZ2	1.73	0.53
1:E:685:LEU:HB3	1:E:686:PRO:CD	2.38	0.53
1:O:433:LEU:HB3	1:O:434:PRO:HD3	1.91	0.53
1:P:301:TRP:CH2	1:P:452:SER:HA	2.44	0.53
1:P:71:GLU:HG3	1:P:74:LEU:HD12	1.91	0.53
1:G:69:VAL:HG11	1:G:122:CYS:SG	2.49	0.53
1:G:737:ILE:HG13	1:G:738:PRO:O	2.08	0.53
1:G:43:ARG:O	1:G:310:ARG:HD3	2.09	0.53
1:B:869:ASP:OD1	1:B:1015:HIS:HB2	2.08	0.53
1:L:856:TYR:CD2	1:L:864:MET:HE2	2.44	0.53
1:P:30:HIS:ND1	1:P:33:PHE:CE2	2.77	0.53
1:G:928:PRO:HB2	1:G:973:ARG:HH11	1.73	0.53
1:D:129:VAL:HG21	1:D:182:ASN:ND2	2.24	0.53
1:C:73:TRP:O	1:C:183:ARG:NH1	2.30	0.53
1:C:413:ALA:O	1:C:415:ILE:N	2.41	0.53
1:F:610:ASP:OD1	1:F:612:THR:HG23	2.09	0.53
1:B:88:SER:HA	1:B:366:VAL:HG21	1.90	0.53
1:J:783:GLN:NE2	1:J:985:ASN:OD1	2.36	0.53
1:H:898:LEU:HD12	1:H:917:ARG:HA	1.91	0.53
1:E:608:PHE:O	1:E:610:ASP:N	2.42	0.53
1:L:776:LEU:N	1:L:776:LEU:HD23	2.23	0.53
1:P:531:ARG:O	1:P:561:ARG:HD2	2.08	0.53
1:O:673:ALA:O	1:O:674:PRO:C	2.45	0.53
1:N:237:ARG:CG	1:N:237:ARG:HH11	2.21	0.53
1:D:774:LYS:O	1:D:775:GLN:NE2	2.41	0.53
1:K:655:MET:HG2	1:K:656:VAL:N	2.24	0.53
1:C:601:PHE:CZ	1:C:795:VAL:HG12	2.43	0.53
1:M:261:TRP:CH2	1:M:266:GLN:HB2	2.44	0.53
1:F:336:ARG:NH2	1:F:338:GLU:OE1	2.38	0.53
1:L:66:PRO:O	1:L:69:VAL:HG23	2.08	0.53
1:M:548:GLY:HA3	3:M:1222:HOH:O	2.09	0.53
1:H:706:THR:OG1	1:H:709:SER:N	2.41	0.53
1:H:822:LEU:C	1:H:823:LEU:HD23	2.29	0.53
1:P:454:ILE:HG13	1:P:455:ILE:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1018:LEU:HD22	1:A:1019:VAL:H	1.72	0.53
1:K:145:GLY:HA3	1:K:210:ARG:HG3	1.90	0.53
1:G:653:HIS:CD2	1:G:667:GLU:HG2	2.44	0.53
1:I:225:PHE:O	1:I:226:HIS:HD2	1.92	0.53
1:G:894:ARG:HD3	1:G:919:ASP:OD2	2.08	0.53
1:E:30:HIS:ND1	1:E:33:PHE:CE2	2.76	0.53
1:I:542:MET:HA	3:I:1233:HOH:O	2.09	0.53
1:D:102:ASN:HA	1:D:201:ASP:OD1	2.09	0.53
1:G:577:LYS:HB2	1:G:585:TRP:CE2	2.44	0.53
1:D:441:THR:HG22	1:D:474:TRP:CZ2	2.44	0.53
1:D:590:GLY:O	1:D:592:PHE:N	2.42	0.53
1:O:1005:ALA:O	1:O:1007:PHE:N	2.42	0.53
1:F:640:SER:OG	1:F:641:GLU:N	2.41	0.53
1:K:309:TYR:O	1:K:330:VAL:N	2.40	0.53
1:B:927:THR:HG21	1:B:929:TYR:CZ	2.44	0.53
1:F:117:GLU:OE1	1:F:117:GLU:N	2.41	0.53
1:I:369:GLU:HG3	1:I:397:LEU:CD2	2.29	0.53
1:M:651:LEU:O	1:M:700:VAL:HA	2.09	0.53
1:J:436:MET:HE1	1:J:467:ASN:HB2	1.91	0.53
1:P:474:TRP:CE2	1:P:478:VAL:HG21	2.43	0.53
1:G:789:LEU:O	1:G:792:ASP:N	2.42	0.53
1:G:649:ASN:OD1	1:G:703:PRO:HD2	2.09	0.53
1:L:796:SER:OG	1:L:801:ILE:HA	2.09	0.53
1:I:256:VAL:O	1:I:256:VAL:HG12	2.09	0.53
1:K:856:TYR:CD1	1:K:856:TYR:N	2.77	0.53
1:E:309:TYR:O	1:E:329:ASP:HA	2.09	0.53
1:B:340:GLY:O	1:B:341:LEU:HD23	2.09	0.53
1:P:1018:LEU:HD22	1:P:1019:VAL:N	2.24	0.53
1:N:531:ARG:O	1:N:561:ARG:NH1	2.32	0.53
1:K:210:ARG:NH1	1:K:395:HIS:HA	2.24	0.53
1:L:140:ARG:HB2	1:L:171:PHE:O	2.09	0.53
1:H:966:GLN:O	1:H:969:GLU:N	2.30	0.53
1:K:723:ALA:HB1	1:L:875:ASP:OD2	2.09	0.53
1:M:333:ARG:HD3	1:M:451:PRO:HB3	1.90	0.53
1:H:701:VAL:CG1	1:H:712:GLY:HA2	2.39	0.53
1:F:347:LYS:NZ	1:F:643:LEU:O	2.41	0.53
1:G:147:ASN:HA	1:G:165:SER:HB3	1.90	0.53
1:N:906:TYR:HB3	1:N:907:PRO:HD2	1.90	0.53
1:D:141:ILE:HG13	1:D:214:LEU:HD21	1.91	0.53
1:A:287:ASP:OD1	1:A:287:ASP:N	2.33	0.53
1:N:653:HIS:NE2	1:N:667:GLU:HG2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:14:ARG:HG2	1:M:14:ARG:NH1	2.24	0.53
1:E:614:HIS:HB3	3:E:1287:HOH:O	2.09	0.53
1:C:719:GLN:NE2	1:C:914:CYS:HB3	2.23	0.53
1:G:630:ARG:NH1	1:G:637:GLU:OE2	2.41	0.53
1:J:139:THR:O	1:J:173:LEU:N	2.38	0.53
1:I:627:PHE:C	1:I:628:GLN:HG2	2.29	0.53
1:I:161:TYR:O	1:I:171:PHE:HZ	1.91	0.53
1:A:917:ARG:NH2	1:A:943:GLU:OE2	2.42	0.53
1:B:326:GLU:OE1	1:B:326:GLU:HA	2.07	0.53
1:P:484:VAL:O	1:P:497:ASP:HB2	2.08	0.53
1:M:66:PRO:O	1:M:69:VAL:HG23	2.10	0.52
1:H:745:MET:O	1:H:760:ARG:HG3	2.09	0.52
1:E:415:ILE:CD1	1:E:436:MET:HB3	2.39	0.52
1:P:698:VAL:O	1:P:717:TRP:HA	2.09	0.52
1:M:200:GLN:HG2	1:M:391:HIS:HB2	1.89	0.52
1:N:114:VAL:HG13	1:N:115:PRO:N	2.23	0.52
1:E:251:ARG:HB3	1:E:253:TYR:HE1	1.70	0.52
1:J:110:ASN:O	1:J:113:PHE:N	2.41	0.52
1:H:240:LEU:O	1:H:293:LEU:N	2.37	0.52
1:O:79:PRO:HG2	1:O:80:GLU:HG3	1.90	0.52
1:L:492:ASP:HB3	1:L:499:ILE:CG2	2.39	0.52
1:E:388:ARG:NH2	1:E:460:ASN:OD1	2.42	0.52
1:O:718:GLN:HG2	1:O:720:TRP:CZ2	2.44	0.52
1:D:246:MET:HG2	1:D:274:PHE:CE2	2.43	0.52
1:H:749:ILE:HD11	1:H:834:VAL:HG11	1.91	0.52
1:N:647:SER:HG	1:N:672:VAL:H	1.50	0.52
1:A:73:TRP:CZ2	1:A:185:ALA:HB1	2.44	0.52
1:N:797:GLU:O	1:N:798:ALA:C	2.46	0.52
1:N:51:LEU:HD12	1:N:52:ARG:H	1.74	0.52
1:P:69:VAL:HG21	1:P:122:CYS:SG	2.49	0.52
1:B:167:LEU:HB3	1:B:168:PRO:HD2	1.90	0.52
1:B:18:ASN:OD1	1:B:20:GLY:N	2.36	0.52
1:I:54:LEU:O	1:I:58:TRP:NE1	2.38	0.52
1:M:865:ALA:HA	1:M:1019:VAL:HG22	1.91	0.52
1:P:778:THR:HG22	1:P:779:PRO:HD2	1.91	0.52
1:H:746:ASP:HA	1:H:760:ARG:CG	2.21	0.52
1:M:424:ASN:O	1:M:427:THR:N	2.42	0.52
1:H:315:LEU:O	1:H:315:LEU:HG	2.09	0.52
1:H:78:LEU:HB3	1:H:79:PRO:HD2	1.92	0.52
1:G:830:LEU:HB2	1:G:833:ALA:O	2.09	0.52
1:F:356:ARG:HD2	1:F:379:MET:HE3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:778:THR:HG22	1:E:887:GLN:H	1.73	0.52
1:B:419:GLY:HA2	1:C:282:ARG:NH1	2.24	0.52
1:P:811:LYS:O	1:P:813:ALA:N	2.42	0.52
1:O:90:TRP:HE1	1:O:96:ASP:CG	2.12	0.52
1:P:84:VAL:CG1	1:P:85:VAL:N	2.72	0.52
1:K:246:MET:HE2	1:K:246:MET:O	2.10	0.52
1:L:870:VAL:CG1	1:L:871:GLU:H	2.21	0.52
1:L:140:ARG:HD2	1:L:170:GLU:OE1	2.09	0.52
1:E:844:HIS:O	1:E:847:LYS:N	2.41	0.52
1:O:132:SER:O	1:O:135:GLN:N	2.42	0.52
1:I:141:ILE:HA	1:I:214:LEU:HD23	1.91	0.52
1:J:360:HIS:HE1	1:J:362:LEU:HB2	1.74	0.52
1:F:881:ARG:HD3	1:F:987:ASP:OD1	2.10	0.52
1:E:220:THR:HA	1:E:247:CYS:O	2.09	0.52
1:L:461:GLU:HB3	3:L:1240:HOH:O	2.08	0.52
1:O:658:LEU:O	1:O:659:ASP:C	2.47	0.52
1:E:830:LEU:HD13	1:E:830:LEU:N	2.24	0.52
1:C:411:ASP:OD2	1:C:447:ASP:OD2	2.27	0.52
1:A:595:THR:CG2	1:A:596:PRO:HA	2.39	0.52
1:M:859:ASP:OD1	1:M:861:SER:OG	2.26	0.52
1:K:724:GLU:HB2	1:L:874:SER:OG	2.09	0.52
1:K:634:GLN:O	1:K:682:LEU:HB2	2.09	0.52
1:A:504:ALA:HB3	1:A:535:LEU:HD21	1.89	0.52
1:N:572:ASP:OD1	1:N:603:MET:HB3	2.08	0.52
1:M:70:PRO:HG2	1:M:78:LEU:CD1	2.21	0.52
1:M:12:GLN:OE1	1:M:12:GLN:HA	2.09	0.52
1:L:123:TYR:CG	1:L:208:ILE:HD12	2.44	0.52
1:P:197:LEU:CD2	1:P:426:LEU:HD12	2.39	0.52
1:B:261:TRP:CE3	1:B:266:GLN:HB2	2.44	0.52
1:K:694:LEU:O	1:K:722:LEU:N	2.39	0.52
1:D:251:ARG:HD2	1:D:253:TYR:CE1	2.44	0.52
1:H:827:ALA:HA	1:H:836:ILE:HD12	1.90	0.52
1:B:100:TYR:CE2	1:B:598:ASP:HB2	2.45	0.52
1:P:79:PRO:CG	1:P:80:GLU:HG3	2.38	0.52
1:H:608:PHE:HB2	1:H:612:THR:OG1	2.10	0.52
1:M:964:GLN:O	1:M:967:LEU:HB2	2.09	0.52
1:P:814:GLY:O	1:P:816:TYR:N	2.41	0.52
1:L:210:ARG:HH11	1:L:395:HIS:CA	2.21	0.52
1:M:242:ALA:O	1:M:291:LEU:N	2.37	0.52
1:F:658:LEU:O	1:F:661:LYS:HD3	2.09	0.52
1:G:126:THR:HA	1:G:182:ASN:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:534:ILE:HD11	1:G:563:GLN:HB2	1.91	0.52
1:G:738:PRO:HB2	1:G:834:VAL:HG23	1.91	0.52
1:N:421:VAL:O	1:N:425:ARG:NH1	2.42	0.52
1:G:383:ASN:ND2	1:G:625:GLN:HA	2.25	0.52
1:N:36:TRP:CB	1:N:42:ALA:HB2	2.39	0.52
1:M:627:PHE:C	1:M:628:GLN:HG2	2.29	0.52
1:B:881:ARG:NH1	1:B:987:ASP:OD2	2.32	0.52
1:E:810:TRP:CH2	1:E:991:MET:HE2	2.44	0.52
1:B:534:ILE:HG22	3:B:1262:HOH:O	2.09	0.52
1:A:542:MET:HE3	1:A:601:PHE:HA	1.92	0.52
1:J:502:MET:HE2	1:J:537:GLU:OE1	2.08	0.52
1:B:26:ARG:HD2	1:B:169:SER:HA	1.92	0.52
1:F:950:GLN:OE1	1:F:952:ARG:NE	2.31	0.52
1:C:18:ASN:ND2	1:C:21:VAL:HG23	2.24	0.52
1:E:872:VAL:HG12	1:E:873:ALA:N	2.24	0.52
1:B:282:ARG:NH1	1:C:419:GLY:HA2	2.24	0.52
1:B:559:TYR:HB2	1:B:562:LEU:HB2	1.91	0.52
1:C:1003:VAL:N	3:C:1240:HOH:O	2.42	0.52
1:F:910:LEU:HD12	1:F:910:LEU:C	2.29	0.52
1:B:944:LEU:O	1:B:951:TRP:HE3	1.92	0.52
1:B:579:ASP:OD1	1:B:583:ASN:N	2.38	0.52
1:P:546:LEU:O	1:P:909:ARG:HG3	2.09	0.52
1:K:322:LEU:HD23	1:K:322:LEU:C	2.30	0.52
1:K:843:GLN:HG2	1:K:848:THR:CG2	2.28	0.52
1:H:37:ARG:NH2	1:H:218:PRO:HD3	2.25	0.52
1:P:60:PHE:CD2	1:P:61:ALA:N	2.78	0.52
1:H:896:ASN:O	1:H:944:LEU:HD12	2.09	0.52
1:O:499:ILE:O	1:O:533:LEU:HD13	2.10	0.52
1:F:427:THR:O	1:F:465:GLY:HA3	2.10	0.52
1:H:391:HIS:NE2	1:H:460:ASN:ND2	2.57	0.52
1:A:250:LEU:O	1:A:251:ARG:HG3	2.10	0.52
1:H:86:VAL:HG13	1:H:87:PRO:CA	2.35	0.52
1:G:559:TYR:CB	1:G:562:LEU:HD12	2.39	0.52
1:G:131:GLU:HB2	1:G:135:GLN:NE2	2.23	0.52
1:G:322:LEU:HD23	1:G:324:GLU:H	1.74	0.52
1:J:73:TRP:O	1:J:183:ARG:NH1	2.29	0.52
1:J:5:ASP:OD2	1:J:157:ARG:HG2	2.10	0.52
1:O:131:GLU:HB2	1:O:135:GLN:HE21	1.73	0.52
1:H:857:ARG:O	1:H:857:ARG:HG2	2.07	0.52
1:N:883:GLY:HA3	1:N:987:ASP:HA	1.90	0.52
1:N:474:TRP:O	1:N:478:VAL:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:271:THR:HG22	1:F:272:ALA:N	2.24	0.52
1:A:778:THR:HG22	1:A:779:PRO:HD2	1.90	0.52
1:I:30:HIS:ND1	1:I:33:PHE:CE2	2.78	0.52
1:C:856:TYR:CD2	1:C:864:MET:HE2	2.45	0.52
1:C:890:GLN:HG3	1:C:891:VAL:N	2.24	0.52
1:H:936:GLY:CA	1:H:938:ARG:HH21	2.22	0.52
1:C:125:LEU:HG	1:C:126:THR:N	2.23	0.52
1:C:896:ASN:HB2	1:C:919:ASP:OD1	2.09	0.52
1:G:473:ARG:NH1	1:G:477:SER:OG	2.42	0.52
1:B:106:PRO:HG3	1:B:204:ARG:HG3	1.90	0.52
1:G:418:HIS:ND1	1:G:461:GLU:OE2	2.43	0.52
1:I:767:GLN:HG3	1:I:768:MET:N	2.23	0.52
1:K:114:VAL:HG13	1:K:115:PRO:HD2	1.92	0.52
1:E:432:TRP:O	1:E:435:ALA:HB3	2.09	0.52
1:P:246:MET:HG2	1:P:274:PHE:CE2	2.45	0.52
1:E:86:VAL:HG13	1:E:87:PRO:HA	1.92	0.52
1:P:114:VAL:HG21	1:P:191:TRP:O	2.08	0.52
1:P:60:PHE:CG	1:P:61:ALA:N	2.77	0.52
1:G:37:ARG:HH21	1:G:218:PRO:HD3	1.70	0.52
1:K:7:LEU:HB2	1:K:71:GLU:OE2	2.09	0.52
1:D:775:GLN:NE2	1:D:775:GLN:HA	2.23	0.52
1:A:40:GLU:HG3	1:A:43:ARG:NH1	2.24	0.52
1:I:251:ARG:CB	1:I:253:TYR:HE1	2.18	0.52
1:B:946:TYR:CE2	1:B:982:THR:HG21	2.44	0.52
1:P:637:GLU:HA	1:P:678:GLN:O	2.09	0.52
1:H:827:ALA:HA	1:H:836:ILE:CD1	2.39	0.52
1:B:897:TRP:O	1:B:917:ARG:HA	2.10	0.52
1:F:894:ARG:CZ	1:F:921:PRO:HD3	2.39	0.52
1:M:256:VAL:O	1:M:271:THR:HG23	2.09	0.52
1:I:138:GLN:N	1:I:217:LYS:O	2.39	0.52
1:E:386:ALA:HB2	1:E:408:TYR:HB2	1.92	0.52
1:H:763:GLY:HA3	1:H:822:LEU:HD22	1.92	0.52
1:O:650:GLU:CB	1:O:670:LEU:HB2	2.39	0.52
1:O:92:MET:HE1	1:O:364:GLY:N	2.24	0.52
1:A:579:ASP:N	1:A:583:ASN:O	2.32	0.52
1:I:257:THR:OG1	1:I:271:THR:HG23	2.10	0.52
1:L:806:TRP:O	1:L:809:ARG:HB2	2.09	0.52
1:I:78:LEU:HB3	1:I:79:PRO:CD	2.40	0.52
1:M:347:LYS:HG3	1:M:644:PHE:CE1	2.43	0.52
1:M:108:THR:HG22	1:M:109:VAL:H	1.74	0.52
1:L:454:ILE:O	1:L:455:ILE:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:952:ARG:O	1:K:1018:LEU:HD23	2.10	0.52
1:A:595:THR:HG23	1:A:596:PRO:HA	1.90	0.52
1:B:414:ASN:HB3	3:B:1268:HOH:O	2.08	0.52
1:B:507:ASP:OD1	1:B:521:LYS:HE3	2.09	0.52
1:G:878:HIS:ND1	1:G:878:HIS:N	2.53	0.52
1:N:749:ILE:HD12	1:N:834:VAL:HG11	1.91	0.52
1:I:893:GLU:HA	1:I:893:GLU:OE1	2.08	0.52
1:P:560:PRO:HD2	3:P:1208:HOH:O	2.08	0.52
1:L:807:VAL:HG13	1:L:808:GLU:N	2.25	0.52
1:E:18:ASN:ND2	1:E:21:VAL:HG23	2.25	0.52
1:M:30:HIS:CE1	1:M:33:PHE:CD2	2.98	0.52
1:M:166:ARG:HG2	1:M:414:ASN:ND2	2.24	0.52
1:L:91:GLN:HE21	1:L:190:ARG:NH2	2.08	0.52
1:K:66:PRO:HB3	1:K:187:MET:HE3	1.92	0.52
1:E:188:VAL:HG21	1:E:208:ILE:HG13	1.92	0.52
1:E:356:ARG:O	1:E:356:ARG:HG2	2.10	0.52
1:F:890:GLN:HG3	1:F:891:VAL:H	1.73	0.52
1:M:920:LEU:O	1:M:921:PRO:C	2.41	0.52
1:I:66:PRO:HB3	1:I:187:MET:HE1	1.91	0.52
1:J:597:ASN:HD21	1:J:599:ARG:H	1.54	0.52
1:O:571:VAL:HG13	1:O:607:VAL:HG23	1.92	0.52
1:L:796:SER:HG	1:L:802:ASP:H	1.54	0.52
1:B:460:ASN:O	1:B:461:GLU:C	2.47	0.52
1:F:102:ASN:OD1	1:F:103:VAL:HG23	2.09	0.52
1:E:125:LEU:HG	1:E:126:THR:N	2.19	0.52
1:A:830:LEU:HB2	1:A:833:ALA:O	2.09	0.52
1:D:891:VAL:HG12	1:D:891:VAL:O	2.10	0.52
1:K:391:HIS:NE2	1:K:460:ASN:ND2	2.57	0.52
1:F:210:ARG:NH1	1:F:395:HIS:N	2.56	0.52
1:L:173:LEU:O	1:L:175:ALA:N	2.43	0.52
1:E:257:THR:OG1	1:E:271:THR:HG23	2.09	0.52
1:H:309:TYR:O	1:H:330:VAL:N	2.34	0.52
1:L:336:ARG:HB2	1:L:343:LEU:HD12	1.92	0.52
1:I:970:THR:HG21	1:I:976:LEU:HG	1.92	0.52
1:E:110:ASN:O	1:E:113:PHE:HB2	2.09	0.52
1:P:236:SER:C	1:P:237:ARG:HG2	2.29	0.52
1:K:416:GLU:OE2	1:K:418:HIS:HB2	2.09	0.52
1:G:102:ASN:HD22	1:G:102:ASN:C	2.13	0.52
1:C:356:ARG:HG2	1:C:356:ARG:HH11	1.75	0.52
1:I:53:SER:OG	1:I:55:ASN:HB2	2.09	0.52
1:J:645:ARG:NH2	1:J:650:GLU:OE1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:55:ASN:HD21	1:G:211:ASP:HB3	1.75	0.52
1:M:79:PRO:HD2	1:M:80:GLU:OE2	2.10	0.52
1:K:524:LEU:HD11	1:K:562:LEU:HG	1.92	0.52
1:M:6:SER:HG	1:M:9:VAL:HG23	1.75	0.52
1:E:18:ASN:CG	1:E:21:VAL:HG23	2.30	0.52
1:M:27:LEU:CD1	1:M:140:ARG:HH21	2.23	0.52
1:P:787:ALA:HB3	1:P:934:GLU:N	2.25	0.52
1:M:426:LEU:HD13	1:M:432:TRP:CD2	2.45	0.52
1:H:30:HIS:ND1	1:H:33:PHE:CE2	2.78	0.52
1:P:899:GLY:HA2	1:P:915:PHE:HE1	1.75	0.52
1:C:362:LEU:HD21	1:C:576:ILE:CD1	2.29	0.52
1:E:99:ILE:HG22	1:E:100:TYR:N	2.23	0.52
1:E:84:VAL:HG12	1:E:85:VAL:H	1.75	0.52
1:E:16:TRP:HD1	1:E:17:GLU:HG3	1.69	0.52
1:F:780:LEU:CD1	1:F:886:CYS:HB3	2.37	0.52
1:B:100:TYR:CE1	1:B:602:CYS:HB3	2.45	0.52
1:N:14:ARG:HH12	1:N:16:TRP:HZ2	1.56	0.52
1:O:842:TRP:HZ3	1:O:852:SER:HB2	1.75	0.52
1:B:621:LYS:NZ	1:B:714:ILE:O	2.29	0.52
1:K:625:GLN:NE2	1:K:716:ALA:HB1	2.24	0.52
1:M:382:ASN:OD1	1:M:617:LEU:HG	2.10	0.52
1:G:533:LEU:C	1:G:534:ILE:HG12	2.29	0.52
1:L:789:LEU:O	1:L:793:ILE:HD12	2.10	0.52
1:P:782:ASP:OD2	1:P:842:TRP:HH2	1.93	0.52
1:F:747:PHE:CE1	1:F:760:ARG:HD2	2.44	0.52
1:M:333:ARG:HH11	1:M:451:PRO:CA	2.23	0.52
1:G:949:HIS:CD2	1:G:1020:TRP:HE1	2.28	0.52
1:M:45:ASP:O	1:M:46:ARG:O	2.28	0.52
1:J:429:ASP:OD1	1:J:431:ARG:HB2	2.09	0.52
1:J:806:TRP:CH2	1:J:809:ARG:NH2	2.78	0.52
1:B:410:VAL:HG12	1:B:410:VAL:O	2.10	0.52
1:K:1013:ARG:NH2	1:L:954:ASP:OD2	2.42	0.52
1:F:608:PHE:HB2	1:F:612:THR:O	2.10	0.52
1:H:457:SER:HA	1:H:485:GLN:O	2.10	0.52
1:A:382:ASN:HA	1:A:621:LYS:HD2	1.91	0.52
1:J:867:THR:O	1:J:867:THR:HG22	2.10	0.52
1:L:296:GLU:O	1:L:297:ASN:C	2.45	0.52
1:N:691:ALA:HA	1:N:725:ASN:HB3	1.92	0.52
1:E:316:HIS:ND1	1:E:316:HIS:N	2.56	0.52
1:M:138:GLN:N	1:M:217:LYS:O	2.36	0.52
1:D:14:ARG:NH1	1:D:16:TRP:CZ2	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:360:HIS:O	1:G:364:GLY:N	2.40	0.52
1:B:7:LEU:HD13	1:B:74:LEU:CD1	2.37	0.52
1:B:708:TRP:CZ3	1:B:709:SER:HB3	2.44	0.52
1:N:210:ARG:HH11	1:N:395:HIS:CB	2.22	0.52
1:O:946:TYR:O	1:O:949:HIS:HB2	2.10	0.52
1:M:473:ARG:C	1:M:473:ARG:HD3	2.30	0.52
1:B:777:LEU:HD12	1:B:889:ALA:HA	1.91	0.52
1:J:797:GLU:O	1:J:801:ILE:HD12	2.09	0.52
1:B:210:ARG:HH12	1:B:395:HIS:N	2.08	0.52
1:B:540:HIS:ND1	1:B:999:TRP:HZ3	2.06	0.52
1:N:18:ASN:OD1	1:N:20:GLY:N	2.35	0.52
1:O:225:PHE:HA	1:O:243:GLU:O	2.10	0.52
1:H:446:ARG:HG2	1:H:446:ARG:O	2.09	0.52
1:E:223:SER:O	1:E:224:ASP:HB2	2.10	0.52
1:A:423:MET:HB2	1:D:282:ARG:HG3	1.92	0.52
1:D:810:TRP:CZ2	1:D:991:MET:HE1	2.45	0.52
1:E:610:ASP:O	1:E:611:ARG:HB2	2.09	0.52
1:H:314:GLU:HB3	1:H:322:LEU:HD11	1.91	0.52
1:H:308:LEU:HD13	1:H:329:ASP:HB3	1.92	0.52
1:C:964:GLN:NE2	3:C:1232:HOH:O	2.28	0.52
1:C:610:ASP:O	1:C:611:ARG:HB2	2.10	0.52
1:F:118:ASN:O	1:F:119:PRO:C	2.46	0.52
1:A:951:TRP:HE3	1:A:951:TRP:H	1.56	0.52
1:C:772:ASP:OD1	1:C:772:ASP:N	2.30	0.52
1:D:449:ASN:HB2	3:D:1295:HOH:O	2.09	0.52
1:P:350:LEU:HD12	1:P:563:GLN:O	2.09	0.52
1:P:487:GLU:HB3	3:P:1219:HOH:O	2.10	0.52
1:E:18:ASN:CB	1:E:21:VAL:HG23	2.40	0.52
1:M:91:GLN:H	1:M:91:GLN:CD	2.13	0.52
1:P:897:TRP:CZ2	1:P:918:TRP:HB2	2.44	0.52
1:P:942:ARG:HH21	1:P:954:ASP:CG	2.13	0.52
1:P:200:GLN:HG2	1:P:391:HIS:HB2	1.92	0.52
1:F:891:VAL:HG12	1:F:891:VAL:O	2.10	0.52
1:D:685:LEU:CB	1:D:686:PRO:HD2	2.27	0.52
1:O:949:HIS:HB3	1:O:951:TRP:CH2	2.45	0.52
1:O:649:ASN:O	1:O:702:GLN:HA	2.10	0.52
1:A:610:ASP:O	1:A:611:ARG:HB2	2.10	0.52
1:M:654:TRP:CE2	1:M:666:GLY:HA3	2.44	0.52
1:K:390:SER:HB2	1:K:391:HIS:CE1	2.44	0.52
1:I:927:THR:HG21	1:I:929:TYR:CE2	2.45	0.52
1:L:390:SER:HB2	1:L:391:HIS:CE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:658:LEU:O	1:A:660:GLY:N	2.42	0.52
1:J:132:SER:O	1:J:134:LEU:N	2.43	0.52
1:E:352:ARG:NE	1:E:626:PHE:CE1	2.78	0.52
1:P:130:ASP:O	1:P:133:TRP:HB2	2.10	0.52
1:L:663:LEU:HD13	1:L:688:PRO:HG3	1.92	0.52
1:J:12:GLN:HG2	1:K:4:THR:HB	1.90	0.52
1:O:837:THR:HG22	1:O:837:THR:O	2.09	0.52
1:K:444:VAL:O	1:K:448:ARG:HG2	2.10	0.52
1:J:127:PHE:CD1	1:J:127:PHE:N	2.78	0.52
1:K:310:ARG:HG3	1:K:311:ALA:H	1.75	0.52
1:P:16:TRP:NE1	1:P:17:GLU:HG3	2.25	0.52
1:I:178:ARG:O	1:I:179:ALA:C	2.49	0.52
1:M:588:TYR:N	1:M:591:ASP:OD2	2.29	0.52
1:P:571:VAL:HG11	1:P:611:ARG:HH12	1.73	0.52
1:M:387:VAL:HG12	1:M:407:LEU:CD1	2.40	0.52
1:G:217:LYS:HG2	1:G:218:PRO:HD2	1.91	0.52
1:B:467:ASN:N	1:B:467:ASN:OD1	2.42	0.52
1:D:857:ARG:CG	1:D:857:ARG:HH11	2.17	0.52
1:K:79:PRO:CG	1:K:80:GLU:H	2.23	0.52
1:K:775:GLN:N	1:K:775:GLN:HE21	2.08	0.52
1:E:651:LEU:HD12	1:E:668:VAL:O	2.10	0.52
1:C:359:HIS:NE2	1:C:573:GLN:HA	2.25	0.52
1:K:357:HIS:CE1	1:K:568:TRP:HH2	2.25	0.52
1:N:240:LEU:CD1	1:N:241:GLU:H	2.21	0.52
1:M:284:GLY:C	1:P:422:PRO:HG3	2.29	0.52
1:I:637:GLU:HG3	1:I:679:LEU:HD21	1.92	0.52
1:K:891:VAL:O	1:K:891:VAL:HG12	2.10	0.52
1:L:58:TRP:CZ2	1:L:125:LEU:HD23	2.45	0.52
1:G:579:ASP:CG	1:G:583:ASN:HB2	2.30	0.52
1:H:464:HIS:HB2	1:H:489:GLY:HA3	1.91	0.52
1:N:266:GLN:HE22	1:N:269:SER:HB2	1.73	0.52
1:K:487:GLU:O	1:K:488:GLY:C	2.47	0.52
1:I:543:GLY:N	3:I:1233:HOH:O	2.38	0.52
1:L:139:THR:O	1:L:173:LEU:N	2.33	0.52
1:E:255:ARG:NH2	1:E:318:ALA:HB2	2.25	0.52
1:I:757:GLN:HG2	1:I:758:PHE:N	2.24	0.52
1:G:696:LEU:HB2	1:G:722:LEU:HD11	1.91	0.52
1:J:502:MET:O	1:J:502:MET:HG3	2.09	0.52
1:K:448:ARG:HA	1:K:482:ARG:HH12	1.74	0.52
1:B:847:LYS:HG3	1:B:848:THR:N	2.24	0.52
1:F:538:TYR:O	1:F:567:VAL:HA	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:48:SER:OG	1:N:50:GLN:HB2	2.10	0.52
1:K:132:SER:O	1:K:135:GLN:HB2	2.09	0.52
1:B:189:LEU:N	1:B:189:LEU:HD23	2.25	0.52
1:N:344:LEU:C	1:N:344:LEU:HD23	2.30	0.52
1:H:869:ASP:OD2	1:H:1015:HIS:ND1	2.42	0.52
1:H:107:ILE:HG13	1:H:107:ILE:O	2.04	0.52
1:C:936:GLY:O	1:C:937:LEU:C	2.48	0.52
1:L:613:PRO:HB3	1:L:617:LEU:HD23	1.92	0.52
1:M:513:PRO:O	1:M:514:ALA:HB3	2.10	0.52
1:L:232:ASN:ND2	1:L:236:SER:OG	2.40	0.52
1:D:58:TRP:CE2	1:D:125:LEU:HD22	2.45	0.52
1:E:164:ASP:OD1	1:E:167:LEU:N	2.32	0.51
1:M:100:TYR:O	1:M:597:ASN:HA	2.10	0.51
1:M:474:TRP:CZ2	1:M:478:VAL:HG21	2.45	0.51
1:K:843:GLN:HB3	1:K:847:LYS:O	2.10	0.51
1:M:26:ARG:HD3	1:M:169:SER:OG	2.10	0.51
1:P:146:VAL:HG22	1:P:208:ILE:HG12	1.90	0.51
1:L:986:ILE:HG21	1:L:1018:LEU:CD1	2.38	0.51
1:H:275:GLY:N	1:H:286:ALA:O	2.43	0.51
1:P:261:TRP:CZ3	1:P:266:GLN:N	2.78	0.51
1:L:24:LEU:HB2	1:L:161:TYR:HB3	1.92	0.51
1:L:7:LEU:HD13	1:L:74:LEU:CD1	2.40	0.51
1:K:972:HIS:HB3	1:K:974:HIS:HD2	1.75	0.51
1:O:835:LEU:HD12	1:O:857:ARG:HB2	1.92	0.51
1:P:451:PRO:HD3	3:P:1263:HOH:O	2.09	0.51
1:O:43:ARG:HD2	1:O:261:TRP:CG	2.45	0.51
1:P:968:MET:O	1:P:968:MET:HG3	2.10	0.51
1:L:759:ASN:OD1	1:L:760:ARG:N	2.43	0.51
1:G:127:PHE:N	1:G:127:PHE:CD1	2.78	0.51
1:G:3:ILE:C	1:G:5:ASP:H	2.13	0.51
1:H:622:HIS:O	1:H:625:GLN:HG2	2.10	0.51
1:O:26:ARG:HD3	1:O:169:SER:OG	2.10	0.51
1:E:867:THR:O	1:E:867:THR:HG22	2.10	0.51
1:A:59:ARG:NH2	1:A:81:ALA:O	2.40	0.51
1:I:452:SER:O	1:I:454:ILE:HG23	2.09	0.51
1:L:718:GLN:HG2	1:L:720:TRP:CZ2	2.46	0.51
1:O:1005:ALA:O	1:O:1006:GLU:C	2.47	0.51
1:L:807:VAL:O	1:L:811:LYS:HG3	2.09	0.51
1:B:890:GLN:HG3	1:B:891:VAL:N	2.25	0.51
1:G:30:HIS:ND1	1:G:31:PRO:O	2.43	0.51
1:O:897:TRP:CH2	1:O:918:TRP:HB2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:412:GLU:HG2	1:P:459:GLY:HA2	1.92	0.51
1:M:222:ILE:CD1	1:M:313:VAL:HG12	2.40	0.51
1:J:910:LEU:HD12	1:J:910:LEU:C	2.31	0.51
1:H:951:TRP:N	1:H:951:TRP:CE3	2.79	0.51
1:C:737:ILE:HB	1:C:738:PRO:HD2	1.92	0.51
1:D:568:TRP:CD2	1:D:569:ASP:HB3	2.45	0.51
1:P:138:GLN:OE1	1:P:217:LYS:HB2	2.10	0.51
1:M:91:GLN:HG2	1:M:190:ARG:HH21	1.74	0.51
1:P:789:LEU:O	1:P:793:ILE:HG13	2.11	0.51
1:H:218:PRO:O	1:H:221:GLN:NE2	2.43	0.51
1:O:202:MET:CE	1:O:357:HIS:HD2	2.23	0.51
1:K:769:TRP:HA	1:K:773:LYS:O	2.10	0.51
1:P:946:TYR:CD2	1:P:959:ILE:HD11	2.45	0.51
1:L:63:PHE:HB3	1:L:64:PRO:HD2	1.92	0.51
1:C:258:VAL:HG12	1:C:258:VAL:O	2.10	0.51
1:L:215:LEU:HD12	1:L:216:HIS:H	1.75	0.51
1:N:515:VAL:HG23	1:N:515:VAL:O	2.10	0.51
1:I:90:TRP:O	1:I:93:HIS:HB2	2.10	0.51
1:P:437:SER:O	1:P:441:THR:HG23	2.10	0.51
1:O:91:GLN:NE2	1:O:96:ASP:OD1	2.41	0.51
1:G:125:LEU:O	1:G:183:ARG:HA	2.11	0.51
1:H:881:ARG:NH1	1:H:987:ASP:OD2	2.29	0.51
1:I:23:GLN:HB3	1:I:26:ARG:CZ	2.40	0.51
1:E:324:GLU:HG3	1:E:325:ALA:N	2.25	0.51
1:I:930:VAL:HA	1:I:973:ARG:HD3	1.93	0.51
1:N:670:LEU:HD22	1:N:678:GLN:OE1	2.10	0.51
1:N:261:TRP:O	1:N:309:TYR:HD1	1.94	0.51
1:G:949:HIS:HD2	1:G:1020:TRP:HE1	1.56	0.51
1:M:870:VAL:HG12	1:M:871:GLU:H	1.75	0.51
1:N:782:ASP:HB2	1:N:842:TRP:CH2	2.45	0.51
1:I:234:ASP:OD1	1:I:236:SER:OG	2.29	0.51
1:N:802:ASP:OD1	1:N:803:PRO:HD2	2.10	0.51
1:B:987:ASP:OD2	1:B:990:HIS:HD2	1.92	0.51
1:J:55:ASN:HD21	1:J:211:ASP:HB3	1.75	0.51
1:B:251:ARG:HB3	1:B:253:TYR:CE2	2.45	0.51
1:E:608:PHE:O	1:E:609:ALA:C	2.48	0.51
1:D:651:LEU:HD13	1:D:669:PRO:HA	1.93	0.51
1:D:68:ALA:O	1:D:70:PRO:HD3	2.10	0.51
1:K:118:ASN:O	1:K:119:PRO:C	2.48	0.51
1:K:90:TRP:HZ2	1:K:119:PRO:HB2	1.76	0.51
1:B:615:PRO:HA	1:B:903:GLN:OE1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:403:ASP:OD1	1:L:451:PRO:HD2	2.11	0.51
1:N:322:LEU:HD23	1:N:322:LEU:C	2.31	0.51
1:G:960:SER:HA	3:G:1282:HOH:O	2.10	0.51
1:D:30:HIS:HB2	1:D:31:PRO:HD2	1.93	0.51
1:N:312:VAL:HG12	1:N:313:VAL:N	2.25	0.51
1:B:131:GLU:O	1:B:132:SER:C	2.49	0.51
1:N:369:GLU:HG2	1:N:397:LEU:CD2	2.25	0.51
1:M:357:HIS:HE1	1:M:568:TRP:CH2	2.28	0.51
1:M:928:PRO:HB2	1:M:973:ARG:NH1	2.25	0.51
1:D:767:GLN:HE22	1:D:774:LYS:HB3	1.70	0.51
1:D:600:GLN:NE2	1:D:790:ASP:OD1	2.38	0.51
1:J:592:PHE:HB2	1:J:594:ASP:OD1	2.09	0.51
1:L:906:TYR:HB3	1:L:907:PRO:CD	2.36	0.51
1:P:86:VAL:HG21	1:P:123:TYR:CE2	2.45	0.51
1:B:100:TYR:O	1:B:597:ASN:HA	2.11	0.51
1:L:126:THR:HG22	1:L:126:THR:O	2.10	0.51
1:I:285:TYR:CB	1:I:288:ARG:HD2	2.40	0.51
1:P:147:ASN:HB3	1:P:206:SER:HA	1.92	0.51
1:J:7:LEU:CD1	1:J:74:LEU:HD21	2.40	0.51
1:F:218:PRO:O	1:F:221:GLN:NE2	2.40	0.51
1:I:894:ARG:HH11	1:I:919:ASP:CG	2.13	0.51
1:K:649:ASN:OD1	1:K:704:ASN:OD1	2.29	0.51
1:N:411:ASP:OD2	1:N:447:ASP:OD2	2.28	0.51
1:B:352:ARG:HB2	1:B:385:ASN:HB2	1.91	0.51
1:F:859:ASP:OD1	1:F:861:SER:HB2	2.10	0.51
1:C:767:GLN:HG3	1:C:768:MET:N	2.25	0.51
1:A:23:GLN:OE1	1:A:26:ARG:HB3	2.11	0.51
1:M:361:PRO:HA	1:M:575:LEU:HD23	1.92	0.51
1:A:65:ALA:HB1	1:A:66:PRO:HD2	1.91	0.51
1:F:960:SER:HA	3:F:1280:HOH:O	2.10	0.51
1:G:335:VAL:CG2	1:G:454:ILE:HG22	2.40	0.51
1:B:224:ASP:O	1:B:225:PHE:HB3	2.10	0.51
1:A:352:ARG:CB	1:A:385:ASN:HB2	2.22	0.51
1:M:37:ARG:NH2	1:M:217:LYS:HA	2.26	0.51
1:M:30:HIS:ND1	1:M:33:PHE:CE2	2.78	0.51
1:E:41:GLU:O	1:E:43:ARG:N	2.43	0.51
1:J:322:LEU:HG	1:J:323:ILE:N	2.25	0.51
1:P:102:ASN:C	1:P:102:ASN:HD22	2.13	0.51
1:E:73:TRP:CZ2	1:E:122:CYS:HB3	2.46	0.51
1:M:920:LEU:O	1:M:921:PRO:O	2.29	0.51
1:M:115:PRO:HG2	1:M:191:TRP:CD1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:240:LEU:HD22	1:G:260:LEU:HD13	1.91	0.51
1:K:767:GLN:OE1	1:K:768:MET:O	2.29	0.51
1:K:661:LYS:HG2	1:K:663:LEU:CD2	2.38	0.51
1:L:372:MET:SD	1:L:397:LEU:HD23	2.49	0.51
1:L:833:ALA:HB2	1:L:859:ASP:HA	1.92	0.51
1:M:210:ARG:HH11	1:M:395:HIS:CB	2.23	0.51
1:N:210:ARG:NH1	1:N:395:HIS:N	2.58	0.51
1:L:210:ARG:HH12	1:L:394:ASN:C	2.14	0.51
1:L:107:ILE:HG21	1:L:191:TRP:CD2	2.46	0.51
1:M:157:ARG:O	1:M:159:VAL:HG23	2.10	0.51
1:N:317:THR:HG23	1:N:323:ILE:HD11	1.91	0.51
1:H:456:TRP:HZ2	1:H:482:ARG:HH11	1.58	0.51
1:I:897:TRP:CE3	1:I:918:TRP:HB2	2.45	0.51
1:M:630:ARG:HH11	1:M:637:GLU:CD	2.13	0.51
1:N:456:TRP:CZ2	1:N:482:ARG:NH1	2.79	0.51
1:B:579:ASP:N	1:B:583:ASN:O	2.38	0.51
1:M:340:GLY:HA3	3:M:1278:HOH:O	2.10	0.51
1:O:334:GLU:OE2	1:O:336:ARG:HD3	2.09	0.51
1:D:229:THR:HG21	1:D:332:PHE:CD2	2.45	0.51
1:I:13:ARG:O	1:I:14:ARG:HB2	2.10	0.51
1:I:906:TYR:HB3	1:I:907:PRO:HD2	1.92	0.51
1:B:65:ALA:HB1	1:B:66:PRO:HD2	1.92	0.51
1:B:473:ARG:O	1:B:476:LYS:HB2	2.11	0.51
1:D:772:ASP:OD1	1:D:772:ASP:N	2.43	0.51
1:D:36:TRP:CG	1:D:42:ALA:HB2	2.45	0.51
1:D:371:THR:O	1:D:374:GLN:HB3	2.10	0.51
1:N:505:ARG:N	3:N:1208:HOH:O	2.32	0.51
1:I:315:LEU:HG	1:I:315:LEU:O	2.10	0.51
1:P:176:PHE:N	1:P:176:PHE:CD1	2.77	0.51
1:M:359:HIS:CD2	1:M:360:HIS:N	2.79	0.51
1:P:502:MET:HG3	1:P:502:MET:O	2.11	0.51
1:P:569:ASP:N	1:P:569:ASP:OD1	2.44	0.51
1:E:123:TYR:N	1:E:123:TYR:CD1	2.79	0.51
1:D:653:HIS:HD2	1:D:667:GLU:HG2	1.71	0.51
1:H:16:TRP:CD1	1:H:17:GLU:HG2	2.45	0.51
1:L:1020:TRP:HD1	1:L:1021:CYS:H	1.59	0.51
1:P:43:ARG:HH21	1:P:264:GLU:HG2	1.76	0.51
1:I:73:TRP:O	1:I:183:ARG:NH1	2.40	0.51
1:H:86:VAL:HA	1:H:87:PRO:C	2.31	0.51
1:C:572:ASP:HB3	1:C:603:MET:HG2	1.91	0.51
1:N:282:ARG:HD3	1:O:418:HIS:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:906:TYR:OH	1:D:935:ASN:HA	2.10	0.51
1:O:210:ARG:HH11	1:O:395:HIS:HA	1.75	0.51
1:P:89:ASN:ND2	1:P:206:SER:O	2.43	0.51
1:E:786:ARG:CZ	1:E:789:LEU:HD11	2.40	0.51
1:A:18:ASN:OD1	1:A:20:GLY:N	2.39	0.51
1:M:352:ARG:H	1:M:385:ASN:HD22	1.58	0.51
1:G:745:MET:O	1:G:746:ASP:HB3	2.11	0.51
1:E:158:TRP:CH2	1:E:160:GLY:HA2	2.45	0.51
1:N:137:GLY:HA3	1:N:217:LYS:O	2.10	0.51
1:L:30:HIS:CE1	1:L:33:PHE:CD2	2.99	0.51
1:D:166:ARG:HG2	1:D:414:ASN:ND2	2.24	0.51
1:N:964:GLN:NE2	3:N:1235:HOH:O	2.43	0.51
1:F:970:THR:CG2	1:F:975:LEU:HB2	2.40	0.51
1:I:336:ARG:NH2	1:I:338:GLU:OE1	2.29	0.51
1:J:637:GLU:HB2	1:J:679:LEU:HD23	1.92	0.51
1:D:810:TRP:CH2	1:D:991:MET:HE2	2.46	0.51
1:O:36:TRP:CD2	1:O:42:ALA:HB2	2.45	0.51
1:A:66:PRO:HD2	1:A:67:GLU:OE2	2.10	0.51
1:I:689:GLU:O	1:I:690:SER:C	2.49	0.51
1:B:330:VAL:HG22	3:B:1267:HOH:O	2.10	0.51
1:C:440:VAL:O	1:C:443:MET:HB3	2.11	0.51
1:L:406:GLY:O	1:L:407:LEU:HD23	2.11	0.51
1:N:751:LEU:O	1:N:752:GLY:C	2.48	0.51
1:J:176:PHE:CD1	1:J:176:PHE:N	2.78	0.51
1:D:548:GLY:O	1:D:551:LYS:HB2	2.11	0.51
1:P:917:ARG:NH2	1:P:943:GLU:OE2	2.43	0.51
1:D:66:PRO:HB3	1:D:187:MET:CE	2.40	0.51
1:I:486:TYR:CE2	1:I:488:GLY:HA3	2.45	0.51
1:E:902:PRO:O	1:E:938:ARG:NH1	2.43	0.51
1:K:205:MET:HE3	1:K:365:GLN:N	2.26	0.51
1:N:779:PRO:HG2	1:N:781:ARG:NH2	2.26	0.51
1:A:229:THR:C	1:A:230:ARG:HG3	2.30	0.51
1:P:777:LEU:CG	1:P:889:ALA:HB2	2.39	0.51
1:M:433:LEU:N	1:M:434:PRO:HD2	2.25	0.51
1:F:1020:TRP:HD1	1:F:1021:CYS:H	1.59	0.51
1:H:127:PHE:CD1	1:H:127:PHE:N	2.78	0.51
1:P:129:VAL:CG2	1:P:182:ASN:ND2	2.74	0.51
1:H:474:TRP:O	1:H:478:VAL:HG23	2.10	0.51
1:P:811:LYS:O	1:P:814:GLY:N	2.44	0.51
1:N:102:ASN:C	1:N:102:ASN:HD22	2.13	0.51
1:L:352:ARG:NH2	1:L:641:GLU:OE1	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:176:PHE:CD1	1:I:176:PHE:N	2.78	0.51
1:O:360:HIS:ND1	1:O:363:HIS:N	2.57	0.51
1:B:537:GLU:HA	1:B:566:PHE:O	2.10	0.51
1:H:577:LYS:NZ	1:H:591:ASP:O	2.29	0.51
1:B:937:LEU:HG	1:B:938:ARG:H	1.75	0.51
1:F:287:ASP:OD1	1:F:287:ASP:N	2.29	0.51
1:I:797:GLU:N	1:I:800:ARG:O	2.38	0.51
1:I:815:HIS:HE1	1:I:877:PRO:O	1.93	0.51
1:N:730:LEU:H	1:N:730:LEU:HD12	1.74	0.51
1:A:645:ARG:NH2	1:A:650:GLU:OE2	2.44	0.51
1:C:499:ILE:HG13	1:C:532:PRO:O	2.11	0.51
1:P:585:TRP:CE3	1:P:974:HIS:CE1	2.99	0.51
1:M:900:LEU:HD23	1:M:915:PHE:HA	1.92	0.51
1:D:502:MET:O	1:D:517:LYS:NZ	2.44	0.51
1:E:698:VAL:HG22	1:E:718:GLN:O	2.11	0.51
1:G:205:MET:N	3:G:1244:HOH:O	2.43	0.51
1:H:296:GLU:O	1:H:297:ASN:HB2	2.10	0.51
1:B:380:LYS:HE3	1:B:406:GLY:O	2.11	0.51
1:D:837:THR:O	1:D:837:THR:HG22	2.11	0.51
1:K:29:ALA:HB3	1:K:445:GLN:OE1	2.10	0.51
1:I:484:VAL:O	1:I:497:ASP:HB2	2.11	0.51
1:A:240:LEU:HB3	1:A:293:LEU:HB2	1.93	0.51
1:J:178:ARG:HB2	1:J:182:ASN:OD1	2.10	0.51
1:E:23:GLN:HA	1:E:162:GLY:HA2	1.93	0.51
1:P:897:TRP:CE2	1:P:918:TRP:HB2	2.45	0.51
1:P:955:PHE:CD1	1:P:955:PHE:N	2.79	0.51
1:G:202:MET:HE3	1:G:357:HIS:HD2	1.76	0.51
1:M:422:PRO:CG	1:P:284:GLY:HA2	2.35	0.51
1:E:99:ILE:CD1	1:E:190:ARG:NH1	2.73	0.51
1:H:27:LEU:HD12	1:H:140:ARG:HH11	1.74	0.51
1:K:656:VAL:CG1	1:K:694:LEU:HD11	2.41	0.51
1:P:948:PRO:HG2	1:P:949:HIS:ND1	2.25	0.51
1:K:382:ASN:HB3	1:K:617:LEU:HD11	1.92	0.51
1:N:282:ARG:HH12	1:O:419:GLY:HA2	1.73	0.51
1:G:932:PRO:O	1:G:933:SER:HB3	2.11	0.51
1:O:909:ARG:HH11	1:O:993:ILE:CD1	2.24	0.51
1:K:972:HIS:HB2	1:K:974:HIS:CD2	2.46	0.51
1:P:89:ASN:ND2	1:P:206:SER:H	2.06	0.51
1:O:261:TRP:CE3	1:O:266:GLN:HB2	2.46	0.51
1:P:486:TYR:CZ	1:P:488:GLY:HA3	2.46	0.51
1:G:745:MET:HB3	1:G:761:GLN:NE2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:599:ARG:HH22	1:N:795:VAL:HA	1.76	0.51
1:N:504:ALA:HB3	1:N:535:LEU:CD2	2.40	0.51
1:M:531:ARG:O	1:M:561:ARG:NH1	2.41	0.51
1:K:906:TYR:N	1:K:906:TYR:CD1	2.79	0.51
1:K:474:TRP:CZ2	1:K:478:VAL:HG21	2.46	0.51
1:H:542:MET:HA	1:H:604:ASN:HA	1.91	0.51
1:P:842:TRP:HB2	1:P:850:PHE:CD2	2.45	0.51
1:I:347:LYS:NZ	1:I:643:LEU:O	2.44	0.51
1:D:577:LYS:O	1:D:585:TRP:N	2.44	0.51
1:C:859:ASP:OD1	1:C:861:SER:OG	2.29	0.51
1:N:223:SER:HB3	1:N:247:CYS:HB2	1.92	0.51
1:K:638:VAL:HG21	1:K:670:LEU:HD21	1.91	0.51
1:N:127:PHE:N	1:N:127:PHE:CD1	2.78	0.51
1:P:985:ASN:ND2	3:P:1231:HOH:O	2.28	0.51
1:B:875:ASP:OD1	1:B:875:ASP:N	2.44	0.51
1:J:1004:SER:OG	1:J:1006:GLU:OE2	2.29	0.51
1:P:215:LEU:HD12	1:P:216:HIS:H	1.76	0.51
1:M:510:GLN:O	1:M:517:LYS:N	2.41	0.51
1:D:14:ARG:CG	1:D:14:ARG:HH11	2.11	0.51
1:H:668:VAL:HG12	1:H:669:PRO:CD	2.30	0.51
1:P:118:ASN:O	1:P:120:THR:N	2.44	0.51
1:N:763:GLY:HA3	1:N:822:LEU:CD2	2.40	0.51
1:H:91:GLN:C	1:H:93:HIS:H	2.14	0.51
1:K:142:ILE:CG1	1:K:170:GLU:HG2	2.39	0.51
1:L:105:TYR:CE1	1:L:199:ASP:HB2	2.46	0.51
1:M:372:MET:O	1:M:373:VAL:C	2.45	0.51
1:I:651:LEU:HD13	1:I:669:PRO:HA	1.92	0.51
1:M:234:ASP:OD1	1:M:236:SER:OG	2.29	0.51
1:M:789:LEU:HD12	1:M:792:ASP:OD2	2.11	0.51
1:C:578:TYR:HA	1:C:583:ASN:O	2.11	0.51
1:E:933:SER:O	1:E:934:GLU:C	2.47	0.51
1:G:559:TYR:CD1	1:G:559:TYR:N	2.78	0.51
1:L:352:ARG:NE	1:L:626:PHE:CE1	2.79	0.51
1:H:18:ASN:CB	1:H:21:VAL:HG23	2.40	0.51
1:D:92:MET:O	1:D:93:HIS:HD2	1.94	0.51
1:G:759:ASN:OD1	1:G:761:GLN:N	2.43	0.51
1:D:130:ASP:OD1	1:D:132:SER:N	2.36	0.51
1:M:519:SER:O	1:M:520:ILE:C	2.48	0.51
1:E:388:ARG:NH1	1:E:536:CYS:HB2	2.26	0.51
1:F:217:LYS:HB3	1:F:221:GLN:NE2	2.25	0.51
1:C:1015:HIS:CE1	1:D:1015:HIS:CE1	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:30:HIS:CE1	1:P:33:PHE:CD2	2.99	0.51
1:O:238:ALA:CB	1:O:298:PRO:HG3	2.41	0.51
1:K:1015:HIS:CE1	1:L:1015:HIS:CE1	2.99	0.51
1:P:231:PHE:N	1:P:231:PHE:CD1	2.79	0.51
1:A:230:ARG:O	1:A:238:ALA:HA	2.11	0.51
1:C:217:LYS:NZ	1:C:324:GLU:OE2	2.42	0.51
1:N:519:SER:O	1:N:520:ILE:C	2.49	0.51
1:N:68:ALA:O	1:N:70:PRO:HD3	2.11	0.51
1:L:601:PHE:CZ	1:L:795:VAL:HG12	2.46	0.51
1:I:530:THR:HB	3:I:1290:HOH:O	2.11	0.51
1:G:101:THR:HG22	1:G:598:ASP:OD2	2.11	0.51
1:F:304:GLU:O	1:F:305:ILE:HG12	2.11	0.51
1:H:772:ASP:OD1	1:H:772:ASP:N	2.35	0.51
1:P:835:LEU:C	1:P:836:ILE:HD13	2.31	0.51
1:P:36:TRP:CG	1:P:42:ALA:HB2	2.46	0.51
1:E:166:ARG:HB2	1:E:414:ASN:HD22	1.76	0.51
1:M:223:SER:HB3	1:M:247:CYS:HB2	1.93	0.51
1:E:44:THR:O	1:E:46:ARG:N	2.43	0.51
1:P:702:GLN:HE22	1:P:708:TRP:HH2	1.58	0.51
1:E:637:GLU:HB3	3:E:1276:HOH:O	2.10	0.51
1:F:36:TRP:CE2	1:F:42:ALA:HA	2.45	0.51
1:E:100:TYR:CE2	1:E:598:ASP:HB2	2.45	0.51
1:K:11:LEU:N	1:K:11:LEU:HD23	2.26	0.51
1:O:542:MET:HA	1:O:604:ASN:HA	1.93	0.51
1:I:66:PRO:C	1:I:68:ALA:H	2.15	0.51
1:H:57:GLU:HA	1:H:84:VAL:O	2.10	0.51
1:N:355:ASN:ND2	1:N:355:ASN:N	2.58	0.51
1:N:166:ARG:HB2	1:N:414:ASN:HD22	1.76	0.51
1:G:168:PRO:O	1:G:442:ARG:NH2	2.41	0.51
1:I:34:ALA:HB3	1:I:36:TRP:CE3	2.45	0.51
1:K:833:ALA:CB	1:K:859:ASP:HA	2.40	0.51
1:O:895:VAL:CG2	1:O:922:LEU:HD12	2.41	0.51
1:E:127:PHE:CD1	1:E:127:PHE:N	2.78	0.51
1:O:78:LEU:HD22	1:O:79:PRO:CD	2.40	0.51
1:A:100:TYR:CZ	1:A:602:CYS:HB3	2.45	0.51
1:N:857:ARG:HH11	1:N:857:ARG:CG	2.23	0.51
1:A:653:HIS:HD2	1:A:667:GLU:HB3	1.75	0.51
1:I:26:ARG:O	1:I:27:LEU:O	2.28	0.51
1:A:390:SER:HA	1:A:391:HIS:ND1	2.26	0.51
1:N:262:GLN:HE22	1:N:299:LYS:CD	2.23	0.51
1:J:395:HIS:O	1:J:396:PRO:C	2.48	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:899:GLY:HA2	1:K:915:PHE:CD1	2.45	0.51
1:F:100:TYR:CE1	1:F:602:CYS:HB3	2.46	0.51
1:H:134:LEU:N	1:H:134:LEU:HD23	2.25	0.51
1:B:360:HIS:CE1	1:B:362:LEU:HB2	2.46	0.51
1:G:616:ALA:O	1:G:619:GLU:N	2.44	0.51
1:P:412:GLU:CG	1:P:459:GLY:HA2	2.41	0.51
1:J:764:PHE:CE1	1:J:840:HIS:NE2	2.79	0.51
1:N:946:TYR:HH	1:N:982:THR:HG1	1.51	0.51
1:C:785:THR:HA	3:C:1252:HOH:O	2.11	0.51
1:F:457:SER:HA	1:F:485:GLN:O	2.10	0.51
1:I:446:ARG:NE	1:I:447:ASP:OD1	2.29	0.51
1:E:230:ARG:O	1:E:238:ALA:HA	2.11	0.51
1:F:319:ASP:N	1:F:319:ASP:OD1	2.40	0.51
1:F:876:THR:O	1:F:877:PRO:C	2.45	0.51
1:M:955:PHE:N	1:M:955:PHE:CD1	2.79	0.51
1:G:411:ASP:OD2	1:G:447:ASP:OD2	2.29	0.51
1:H:960:SER:HA	3:H:1281:HOH:O	2.11	0.51
1:G:581:ASN:N	1:G:581:ASN:ND2	2.58	0.51
1:C:91:GLN:HG2	1:C:98:PRO:CA	2.41	0.51
1:A:987:ASP:OD2	1:A:990:HIS:HD2	1.92	0.51
1:J:797:GLU:O	1:J:800:ARG:O	2.28	0.51
1:M:154:CYS:HB3	1:M:159:VAL:HG21	1.93	0.51
1:E:301:TRP:CH2	1:E:452:SER:HA	2.46	0.51
1:A:1015:HIS:CE1	1:B:1015:HIS:CE1	2.99	0.51
1:I:917:ARG:HH22	1:I:943:GLU:CD	2.14	0.51
1:N:155:ASN:OD1	1:N:182:ASN:HA	2.11	0.51
1:N:118:ASN:O	1:N:120:THR:N	2.44	0.51
1:D:873:ALA:O	1:D:876:THR:HG22	2.11	0.51
1:O:588:TYR:O	1:O:591:ASP:HB2	2.11	0.51
1:N:660:GLY:O	1:N:662:PRO:HD3	2.10	0.51
1:F:128:ASN:HA	1:F:180:GLY:O	2.11	0.51
1:H:176:PHE:N	1:H:176:PHE:CD1	2.78	0.51
1:L:373:VAL:O	1:L:374:GLN:O	2.29	0.51
1:G:176:PHE:CD1	1:G:176:PHE:N	2.79	0.51
1:N:143:PHE:O	1:N:168:PRO:HA	2.10	0.51
1:E:856:TYR:HD2	1:E:864:MET:CE	2.24	0.51
1:B:411:ASP:OD2	1:B:447:ASP:OD2	2.29	0.51
1:L:411:ASP:OD2	1:L:447:ASP:OD2	2.28	0.51
1:C:723:ALA:HB1	1:D:875:ASP:OD2	2.11	0.51
1:N:764:PHE:O	1:N:766:SER:N	2.44	0.51
1:N:856:TYR:N	1:N:856:TYR:CD1	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:588:TYR:O	1:N:589:GLY:C	2.46	0.51
1:M:784:PHE:CD2	1:M:850:PHE:CD2	2.99	0.51
1:B:638:VAL:O	1:B:677:LYS:HA	2.11	0.51
1:G:881:ARG:HD3	1:G:987:ASP:OD2	2.11	0.51
1:L:327:ALA:O	1:L:328:CYS:HB3	2.11	0.51
1:P:141:ILE:C	1:P:141:ILE:HD13	2.32	0.50
1:M:42:ALA:O	1:M:310:ARG:NH1	2.43	0.50
1:M:100:TYR:O	1:M:598:ASP:N	2.43	0.50
1:P:541:ALA:CB	1:P:606:LEU:HD23	2.40	0.50
1:P:568:TRP:HE1	1:P:604:ASN:ND2	2.09	0.50
1:M:355:ASN:HD21	1:M:566:PHE:CB	2.25	0.50
1:M:414:ASN:C	1:M:415:ILE:HG13	2.31	0.50
1:H:36:TRP:CG	1:H:42:ALA:HB2	2.46	0.50
1:K:433:LEU:HD12	1:K:433:LEU:C	2.28	0.50
1:K:824:GLN:OE1	1:K:837:THR:HG22	2.11	0.50
1:P:204:ARG:CG	1:P:204:ARG:HH11	2.17	0.50
1:D:599:ARG:HD2	1:D:600:GLN:OE1	2.10	0.50
1:B:433:LEU:HB3	1:B:434:PRO:HD3	1.92	0.50
1:H:23:GLN:HB3	1:H:26:ARG:CZ	2.40	0.50
1:C:542:MET:HA	1:C:604:ASN:HA	1.93	0.50
1:P:796:SER:HB2	1:P:802:ASP:N	2.24	0.50
1:M:367:MET:HB3	1:M:372:MET:CE	2.41	0.50
1:M:246:MET:HG2	1:M:274:PHE:CD2	2.46	0.50
1:A:568:TRP:CE2	1:A:569:ASP:HB3	2.46	0.50
1:M:505:ARG:O	1:M:506:VAL:C	2.48	0.50
1:N:559:TYR:CB	1:N:562:LEU:HD12	2.40	0.50
1:P:331:GLY:N	1:P:451:PRO:HG3	2.26	0.50
1:F:84:VAL:HG12	1:F:85:VAL:N	2.26	0.50
1:G:698:VAL:HG21	1:G:720:TRP:HH2	1.75	0.50
1:L:413:ALA:HB2	1:L:443:MET:HE1	1.91	0.50
1:F:357:HIS:HE1	1:F:568:TRP:HH2	1.58	0.50
1:A:619:GLU:HA	1:A:619:GLU:OE1	2.11	0.50
1:L:856:TYR:N	1:L:856:TYR:CD1	2.78	0.50
1:I:300:LEU:O	1:I:307:ASN:HB2	2.11	0.50
1:L:57:GLU:HA	1:L:84:VAL:O	2.11	0.50
1:L:814:GLY:O	1:L:816:TYR:N	2.44	0.50
1:D:429:ASP:OD1	1:D:431:ARG:HD3	2.10	0.50
1:F:767:GLN:CD	1:F:768:MET:H	2.12	0.50
1:B:253:TYR:O	1:B:318:ALA:N	2.42	0.50
1:M:315:LEU:HG	1:M:315:LEU:O	2.12	0.50
1:L:927:THR:N	1:L:935:ASN:OD1	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:515:VAL:N	1:B:516:PRO:HD3	2.25	0.50
1:N:343:LEU:HD23	1:N:348:PRO:HA	1.93	0.50
1:L:879:PRO:O	1:L:1009:LEU:HD12	2.11	0.50
1:H:46:ARG:HB3	1:H:47:PRO:HD2	1.92	0.50
1:N:655:MET:HG2	1:N:656:VAL:N	2.25	0.50
1:N:140:ARG:O	1:N:140:ARG:HG2	2.07	0.50
1:J:629:PHE:N	1:J:629:PHE:CD1	2.79	0.50
1:N:487:GLU:O	1:N:491:ALA:N	2.41	0.50
1:H:963:SER:O	1:H:964:GLN:C	2.47	0.50
1:P:847:LYS:HG3	1:P:848:THR:N	2.26	0.50
1:P:758:PHE:O	1:P:759:ASN:C	2.48	0.50
1:M:187:MET:HE2	1:M:189:LEU:HD22	1.94	0.50
1:M:140:ARG:HD3	1:M:142:ILE:HD11	1.91	0.50
1:M:36:TRP:C	1:M:37:ARG:HG2	2.32	0.50
1:M:538:TYR:O	1:M:539:ALA:HB3	2.12	0.50
1:P:288:ARG:O	1:P:289:VAL:HG12	2.10	0.50
1:H:28:ALA:O	1:H:30:HIS:HD2	1.94	0.50
1:P:391:HIS:NE2	1:P:460:ASN:ND2	2.58	0.50
1:E:149:ALA:O	1:E:150:PHE:HB3	2.11	0.50
1:E:59:ARG:HH21	1:E:81:ALA:C	2.11	0.50
1:K:26:ARG:CZ	1:K:442:ARG:HH12	2.23	0.50
1:M:130:ASP:O	1:M:133:TRP:N	2.45	0.50
1:M:103:VAL:HG12	1:M:104:THR:N	2.25	0.50
1:G:635:THR:HG22	1:G:680:ILE:O	2.12	0.50
1:K:188:VAL:HG12	1:K:189:LEU:N	2.26	0.50
1:O:118:ASN:O	1:O:119:PRO:C	2.47	0.50
1:G:377:LEU:HD22	1:G:708:TRP:HA	1.92	0.50
1:P:814:GLY:O	1:P:817:GLN:N	2.43	0.50
1:N:145:GLY:N	1:N:210:ARG:HB2	2.27	0.50
1:O:949:HIS:CD2	1:O:1020:TRP:HE1	2.29	0.50
1:H:472:TYR:HD1	1:H:484:VAL:CG1	2.24	0.50
1:F:188:VAL:C	1:F:189:LEU:HD23	2.32	0.50
1:B:540:HIS:ND1	1:B:999:TRP:CZ3	2.80	0.50
1:O:937:LEU:HD11	1:O:956:GLN:HB2	1.92	0.50
1:O:73:TRP:CZ2	1:O:122:CYS:HB3	2.46	0.50
1:B:73:TRP:CH2	1:B:185:ALA:HB1	2.45	0.50
1:G:784:PHE:CD2	1:G:850:PHE:CD2	2.99	0.50
1:N:273:PRO:O	1:N:274:PHE:O	2.28	0.50
1:J:14:ARG:NH1	1:J:16:TRP:HZ2	2.08	0.50
1:G:782:ASP:HB2	1:G:842:TRP:CH2	2.46	0.50
1:B:13:ARG:O	1:B:14:ARG:C	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:446:ARG:NE	1:C:447:ASP:OD1	2.43	0.50
1:J:1022:GLN:C	1:J:1023:LYS:HG3	2.30	0.50
1:K:784:PHE:CD2	1:K:850:PHE:CD2	3.00	0.50
1:K:784:PHE:CD2	1:K:850:PHE:CE2	3.00	0.50
1:E:588:TYR:O	1:E:589:GLY:O	2.29	0.50
1:A:110:ASN:O	1:A:113:PHE:HB2	2.11	0.50
1:J:444:VAL:O	1:J:448:ARG:HG2	2.11	0.50
1:P:951:TRP:CE3	1:P:951:TRP:N	2.79	0.50
1:K:411:ASP:OD2	1:K:447:ASP:OD2	2.29	0.50
1:B:308:LEU:HD13	1:B:329:ASP:HB3	1.92	0.50
1:H:229:THR:HG21	1:H:332:PHE:CD1	2.46	0.50
1:M:79:PRO:HG2	1:M:80:GLU:CG	2.38	0.50
1:P:316:HIS:CB	1:P:322:LEU:HA	2.41	0.50
1:P:908:ASP:OD1	1:P:993:ILE:N	2.39	0.50
1:P:354:VAL:O	1:P:354:VAL:HG13	2.12	0.50
1:M:354:VAL:HG22	1:M:355:ASN:N	2.27	0.50
1:M:387:VAL:HG12	1:M:407:LEU:HD12	1.93	0.50
1:M:391:HIS:CD2	1:M:460:ASN:ND2	2.79	0.50
1:F:685:LEU:O	1:F:687:GLN:NE2	2.43	0.50
1:H:5:ASP:OD2	1:H:157:ARG:HG2	2.11	0.50
1:G:114:VAL:HG13	1:G:115:PRO:CD	2.37	0.50
1:H:253:TYR:HD1	1:H:253:TYR:H	1.56	0.50
1:L:127:PHE:CD1	1:L:127:PHE:N	2.79	0.50
1:J:881:ARG:NH1	1:J:987:ASP:OD2	2.43	0.50
1:M:395:HIS:HE1	1:M:397:LEU:HB2	1.75	0.50
1:P:229:THR:O	1:P:230:ARG:HG3	2.12	0.50
1:P:455:ILE:HG22	1:P:485:GLN:HG2	1.93	0.50
1:F:789:LEU:HB2	1:F:792:ASP:OD2	2.12	0.50
1:K:176:PHE:N	1:K:176:PHE:CD1	2.79	0.50
1:B:937:LEU:HG	1:B:938:ARG:N	2.26	0.50
1:L:57:GLU:HB3	1:L:83:THR:CG2	2.41	0.50
1:M:63:PHE:CB	1:M:64:PRO:HD2	2.40	0.50
1:K:916:ASP:HB3	1:K:918:TRP:CZ2	2.46	0.50
1:B:227:VAL:HG12	1:B:228:ALA:N	2.27	0.50
1:H:509:ASP:C	1:H:511:PRO:HD3	2.30	0.50
1:C:958:ASN:HA	3:C:1273:HOH:O	2.12	0.50
1:O:689:GLU:O	1:O:690:SER:C	2.46	0.50
1:A:375:ASP:O	1:A:379:MET:HG3	2.10	0.50
1:O:449:ASN:HB2	3:O:1204:HOH:O	2.11	0.50
1:F:683:PRO:O	1:F:684:GLU:C	2.50	0.50
1:K:708:TRP:N	1:K:708:TRP:CD1	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:35:SER:O	1:M:36:TRP:O	2.30	0.50
1:M:90:TRP:CD1	1:M:91:GLN:NE2	2.79	0.50
1:M:386:ALA:HB2	1:M:408:TYR:HB2	1.92	0.50
1:P:223:SER:O	1:P:224:ASP:HB2	2.11	0.50
1:K:582:GLY:O	1:K:584:PRO:HD3	2.12	0.50
1:K:437:SER:HA	1:K:471:LEU:CD2	2.42	0.50
1:E:62:TRP:CZ3	1:E:64:PRO:N	2.79	0.50
1:L:1020:TRP:CD1	1:L:1021:CYS:N	2.78	0.50
1:O:708:TRP:CD1	1:O:708:TRP:N	2.79	0.50
1:L:23:GLN:HB3	1:L:26:ARG:HH21	1.75	0.50
1:N:226:HIS:CD2	1:N:226:HIS:N	2.80	0.50
1:P:767:GLN:HE22	1:P:774:LYS:HB3	1.74	0.50
1:P:959:ILE:O	1:P:959:ILE:HG23	2.11	0.50
1:H:102:ASN:CG	1:H:103:VAL:HG23	2.31	0.50
1:J:906:TYR:HB3	1:J:907:PRO:CD	2.39	0.50
1:P:7:LEU:CD1	1:P:74:LEU:HD11	2.41	0.50
1:P:788:PRO:HD2	1:P:968:MET:HB2	1.91	0.50
1:M:897:TRP:CZ3	1:M:918:TRP:HB2	2.47	0.50
1:D:200:GLN:O	1:D:202:MET:HG2	2.11	0.50
1:M:523:TRP:HD1	1:M:526:LEU:HD12	1.75	0.50
1:O:679:LEU:N	1:O:679:LEU:HD23	2.24	0.50
1:O:698:VAL:O	1:O:698:VAL:HG23	2.10	0.50
1:A:79:PRO:HG2	1:A:80:GLU:HG3	1.94	0.50
1:D:166:ARG:HG3	1:D:392:TYR:CB	2.41	0.50
1:C:740:LEU:HA	1:C:749:ILE:HD12	1.92	0.50
1:L:897:TRP:CD2	1:L:918:TRP:HB2	2.47	0.50
1:D:467:ASN:O	1:D:471:LEU:HD12	2.11	0.50
1:E:106:PRO:HG3	1:E:204:ARG:NH1	2.27	0.50
1:E:856:TYR:HD2	1:E:864:MET:HE3	1.76	0.50
1:E:654:TRP:CE2	1:E:666:GLY:HA3	2.46	0.50
1:F:695:TRP:NE1	1:F:915:PHE:CD2	2.79	0.50
1:P:859:ASP:OD1	1:P:861:SER:OG	2.27	0.50
1:E:951:TRP:CE3	1:E:951:TRP:N	2.80	0.50
1:F:486:TYR:CE2	1:F:488:GLY:HA3	2.46	0.50
1:I:700:VAL:HG12	1:I:715:SER:OG	2.12	0.50
1:O:997:ASP:HB2	1:O:999:TRP:CZ2	2.47	0.50
1:N:560:PRO:HD2	3:N:1210:HOH:O	2.11	0.50
1:K:226:HIS:N	1:K:226:HIS:CD2	2.79	0.50
1:L:506:VAL:HG23	1:L:552:TYR:CD1	2.47	0.50
1:P:322:LEU:HD23	1:P:322:LEU:C	2.32	0.50
1:J:316:HIS:HB3	1:J:322:LEU:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:402:CYS:HB3	1:P:407:LEU:HB3	1.93	0.50
1:F:377:LEU:CD2	1:F:708:TRP:HA	2.32	0.50
1:M:653:HIS:HD2	1:M:667:GLU:CB	2.24	0.50
1:L:360:HIS:ND1	1:L:362:LEU:HB2	2.26	0.50
1:O:383:ASN:HD22	1:O:625:GLN:HA	1.72	0.50
1:H:126:THR:HA	1:H:182:ASN:O	2.11	0.50
1:M:73:TRP:O	1:M:183:ARG:NH1	2.43	0.50
1:L:317:THR:CG2	1:L:323:ILE:HD11	2.41	0.50
1:H:910:LEU:HD12	1:H:910:LEU:O	2.12	0.50
1:L:59:ARG:CZ	1:L:81:ALA:HB3	2.42	0.50
1:G:579:ASP:O	1:G:582:GLY:N	2.43	0.50
1:E:262:GLN:HB2	1:E:309:TYR:CE1	2.45	0.50
1:B:856:TYR:HD2	1:B:864:MET:HE2	1.76	0.50
1:O:856:TYR:CD2	1:O:864:MET:HE1	2.47	0.50
1:H:600:GLN:NE2	1:H:790:ASP:OD1	2.45	0.50
1:E:386:ALA:CB	1:E:408:TYR:HB2	2.42	0.50
1:E:154:CYS:O	1:E:155:ASN:C	2.50	0.50
1:N:622:HIS:HB2	1:N:717:TRP:CZ2	2.47	0.50
1:M:641:GLU:HB3	3:M:1274:HOH:O	2.12	0.50
1:K:844:HIS:O	1:K:845:GLN:O	2.30	0.50
1:A:102:ASN:HB3	1:A:598:ASP:OD2	2.12	0.50
1:H:804:ASN:O	1:H:805:ALA:C	2.49	0.50
1:H:806:TRP:CH2	1:H:809:ARG:NH2	2.80	0.50
1:H:3:ILE:HG13	1:H:3:ILE:O	2.11	0.50
1:L:767:GLN:OE1	1:L:768:MET:O	2.29	0.50
1:P:867:THR:O	1:P:867:THR:HG22	2.10	0.50
1:I:23:GLN:HB3	1:I:26:ARG:NH2	2.26	0.50
1:D:102:ASN:ND2	1:D:201:ASP:HB2	2.26	0.50
1:H:356:ARG:HD2	1:H:379:MET:HE1	1.92	0.50
1:P:45:ASP:C	1:P:46:ARG:O	2.48	0.50
1:P:45:ASP:O	1:P:46:ARG:O	2.29	0.50
1:B:73:TRP:CZ2	1:B:122:CYS:HB3	2.47	0.50
1:G:190:ARG:NH2	1:G:204:ARG:O	2.41	0.50
1:M:46:ARG:HB3	1:M:47:PRO:CD	2.41	0.50
1:H:870:VAL:HG12	1:H:871:GLU:N	2.27	0.50
1:H:123:TYR:CG	1:H:208:ILE:HD12	2.46	0.50
1:B:287:ASP:OD2	1:C:425:ARG:NH2	2.44	0.50
1:M:316:HIS:HB2	1:M:321:THR:O	2.12	0.50
1:A:30:HIS:CE1	1:A:33:PHE:CD2	2.99	0.50
1:K:101:THR:HG21	1:K:104:THR:O	2.12	0.50
1:C:789:LEU:HD11	1:C:993:ILE:HG22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:782:ASP:HA	1:J:884:LEU:HD23	1.93	0.50
1:O:127:PHE:N	1:O:127:PHE:CD1	2.80	0.50
1:J:83:THR:HG22	1:J:83:THR:O	2.10	0.50
1:L:515:VAL:N	1:L:516:PRO:HD3	2.26	0.50
1:M:94:GLY:O	1:M:95:TYR:C	2.47	0.50
1:L:300:LEU:HD13	1:L:345:ASN:ND2	2.27	0.50
1:F:622:HIS:HB2	1:F:717:TRP:CZ2	2.47	0.50
1:H:758:PHE:CZ	1:H:765:LEU:HD13	2.47	0.50
1:M:37:ARG:HH21	1:M:217:LYS:HA	1.77	0.50
1:P:375:ASP:OD1	1:P:375:ASP:N	2.44	0.50
1:P:222:ILE:HD13	1:P:313:VAL:CG1	2.40	0.50
1:K:822:LEU:HD12	1:K:824:GLN:H	1.77	0.50
1:E:115:PRO:HG2	1:E:191:TRP:HD1	1.75	0.50
1:E:187:MET:HG2	1:E:187:MET:O	2.11	0.50
1:D:767:GLN:OE1	1:D:768:MET:N	2.29	0.50
1:L:433:LEU:HB3	1:L:434:PRO:CD	2.33	0.50
1:H:959:ILE:HD11	1:H:982:THR:HG21	1.93	0.50
1:P:767:GLN:OE1	1:P:768:MET:O	2.29	0.50
1:N:354:VAL:HG22	1:N:355:ASN:O	2.12	0.50
1:G:83:THR:O	1:G:84:VAL:HG23	2.11	0.50
1:G:824:GLN:O	1:G:838:THR:HA	2.12	0.50
1:N:165:SER:O	1:N:209:PHE:HZ	1.95	0.50
1:O:824:GLN:O	1:O:838:THR:HA	2.11	0.50
1:N:114:VAL:CG2	1:N:115:PRO:HD2	2.38	0.50
1:M:796:SER:HG	1:M:801:ILE:HA	1.75	0.50
1:H:205:MET:O	1:H:206:SER:HB3	2.12	0.50
1:N:920:LEU:CB	1:N:921:PRO:HD2	2.41	0.50
1:E:823:LEU:HB2	1:E:839:ALA:O	2.11	0.50
1:B:701:VAL:O	1:B:703:PRO:HD3	2.11	0.50
1:B:767:GLN:HG3	1:B:768:MET:N	2.27	0.50
1:P:7:LEU:N	1:P:71:GLU:OE2	2.44	0.50
1:F:161:TYR:OH	1:F:163:GLN:NE2	2.36	0.50
1:O:131:GLU:O	1:O:132:SER:C	2.50	0.50
1:F:868:VAL:O	1:F:869:ASP:OD1	2.29	0.50
1:N:627:PHE:CZ	1:N:650:GLU:HG2	2.46	0.50
1:A:237:ARG:HH11	1:A:237:ARG:CG	2.24	0.50
1:I:822:LEU:HD11	1:I:824:GLN:O	2.11	0.50
1:O:99:ILE:HB	1:O:204:ARG:HB2	1.94	0.50
1:G:165:SER:OG	1:G:198:GLU:OE1	2.30	0.50
1:K:894:ARG:HH12	1:K:920:LEU:HA	1.77	0.50
1:K:920:LEU:HB3	1:K:921:PRO:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:84:VAL:HG12	1:M:85:VAL:N	2.27	0.50
1:J:400:THR:O	1:J:403:ASP:HB2	2.11	0.50
1:K:673:ALA:O	1:K:676:GLY:N	2.44	0.50
1:L:110:ASN:O	1:L:113:PHE:HB2	2.12	0.50
1:D:3:ILE:HG13	1:D:3:ILE:O	2.12	0.50
1:D:3:ILE:O	1:D:6:SER:HB3	2.12	0.50
1:C:856:TYR:HB3	1:C:864:MET:HE2	1.93	0.50
1:H:230:ARG:O	1:H:238:ALA:HA	2.11	0.50
1:O:693:GLN:HG2	1:O:721:ARG:HD2	1.94	0.50
1:D:110:ASN:O	1:D:113:PHE:N	2.43	0.50
1:A:540:HIS:ND1	1:A:998:SER:OG	2.33	0.50
1:N:444:VAL:O	1:N:448:ARG:HG2	2.11	0.50
1:N:103:VAL:O	1:N:199:ASP:OD2	2.29	0.50
1:H:439:ARG:HH11	1:H:439:ARG:HG2	1.75	0.50
1:H:764:PHE:O	1:H:766:SER:N	2.44	0.50
1:I:1011:ALA:HB3	1:I:1014:TYR:CZ	2.46	0.50
1:E:440:VAL:O	1:E:444:VAL:HG23	2.11	0.50
1:J:425:ARG:NH2	1:K:287:ASP:OD2	2.45	0.50
1:M:60:PHE:CG	1:M:61:ALA:N	2.80	0.50
1:M:3:ILE:O	1:M:9:VAL:HG21	2.12	0.50
1:M:797:GLU:N	1:M:800:ARG:O	2.42	0.50
1:P:619:GLU:HA	1:P:912:ALA:HB2	1.93	0.50
1:E:100:TYR:HB2	1:E:203:TRP:CE3	2.47	0.50
1:M:603:MET:CE	1:M:930:VAL:HG11	2.41	0.50
1:H:43:ARG:HH21	1:H:264:GLU:HG2	1.69	0.50
1:I:65:ALA:HB1	1:I:66:PRO:HD2	1.94	0.50
1:M:718:GLN:HG3	1:M:719:GLN:N	2.27	0.50
1:H:25:ASN:ND2	1:H:158:TRP:CZ3	2.80	0.50
1:K:499:ILE:HD11	1:K:529:GLU:CD	2.32	0.50
1:H:202:MET:HE2	1:H:357:HIS:HD2	1.75	0.50
1:O:571:VAL:HG13	1:O:607:VAL:CG2	2.42	0.50
1:H:253:TYR:N	1:H:253:TYR:CD1	2.79	0.50
1:H:588:TYR:O	1:H:589:GLY:O	2.29	0.50
1:K:857:ARG:HG2	1:K:857:ARG:NH1	2.23	0.50
1:L:37:ARG:NH2	1:L:218:PRO:HD3	2.27	0.50
1:M:792:ASP:O	1:M:805:ALA:HB1	2.11	0.50
1:P:331:GLY:H	1:P:451:PRO:HG3	1.75	0.50
1:N:136:GLU:O	1:N:137:GLY:O	2.29	0.50
1:H:955:PHE:HB2	1:H:987:ASP:O	2.11	0.50
1:P:45:ASP:O	1:P:46:ARG:C	2.48	0.50
1:D:877:PRO:O	1:D:878:HIS:C	2.48	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:425:ARG:HH22	1:P:287:ASP:CG	2.15	0.50
1:E:810:TRP:CH2	1:E:880:ALA:HB2	2.47	0.50
1:K:955:PHE:CD2	1:K:986:ILE:HG23	2.46	0.50
1:G:382:ASN:ND2	1:G:617:LEU:HD21	2.27	0.50
1:C:230:ARG:O	1:C:238:ALA:HA	2.12	0.50
1:L:354:VAL:HG23	1:L:567:VAL:O	2.10	0.50
1:O:519:SER:O	1:O:520:ILE:C	2.49	0.50
1:L:106:PRO:HG3	1:L:204:ARG:HG3	1.94	0.50
1:N:555:ALA:O	1:N:556:PHE:C	2.48	0.50
1:D:959:ILE:HD12	1:D:984:LEU:HD13	1.94	0.50
1:H:555:ALA:O	1:H:556:PHE:C	2.46	0.50
1:B:646:HIS:CD2	1:B:647:SER:N	2.80	0.50
1:C:178:ARG:HB2	1:C:182:ASN:OD1	2.12	0.50
1:P:458:LEU:HD23	1:P:458:LEU:N	2.26	0.50
1:N:208:ILE:O	1:N:208:ILE:HG22	2.10	0.50
1:H:875:ASP:N	1:H:875:ASP:OD1	2.29	0.50
1:M:837:THR:HG22	1:M:837:THR:O	2.11	0.50
1:O:788:PRO:HD2	1:O:968:MET:HB2	1.93	0.50
1:J:46:ARG:HB3	1:J:47:PRO:HD2	1.93	0.50
1:I:755:ARG:HB2	1:I:769:TRP:HB2	1.94	0.50
1:I:427:THR:CG2	1:I:436:MET:HE2	2.40	0.50
1:M:91:GLN:HG2	1:M:190:ARG:NH2	2.27	0.50
1:M:429:ASP:O	1:M:430:PRO:C	2.48	0.50
1:E:60:PHE:CD1	1:E:61:ALA:N	2.80	0.50
1:K:11:LEU:HD13	1:K:66:PRO:HB2	1.94	0.50
1:K:1020:TRP:CD1	1:K:1021:CYS:N	2.79	0.50
1:E:708:TRP:CZ3	1:E:709:SER:HB3	2.47	0.50
1:I:284:GLY:HA2	1:L:422:PRO:HG3	1.92	0.50
1:K:599:ARG:HD2	1:K:600:GLN:CD	2.33	0.50
1:O:822:LEU:HD12	1:O:823:LEU:H	1.72	0.50
1:G:649:ASN:O	1:G:702:GLN:HA	2.12	0.50
1:E:395:HIS:CE1	1:E:397:LEU:H	2.30	0.50
1:P:7:LEU:HD11	1:P:74:LEU:HG	1.93	0.50
1:K:989:PHE:CE1	1:K:1014:TYR:HB3	2.47	0.50
1:G:501:PRO:HD2	1:G:533:LEU:HD11	1.93	0.50
1:H:974:HIS:C	1:H:975:LEU:HD23	2.32	0.50
1:H:881:ARG:HD3	1:H:987:ASP:CG	2.31	0.50
1:O:505:ARG:HD3	1:O:508:GLU:OE1	2.12	0.50
1:G:40:GLU:CD	1:G:43:ARG:HH12	2.15	0.50
1:E:33:PHE:HB3	1:E:326:GLU:OE2	2.11	0.50
1:C:389:CYS:HB3	1:C:394:ASN:HD21	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:548:GLY:O	1:H:549:PHE:O	2.29	0.50
1:G:107:ILE:HG12	1:G:107:ILE:O	2.11	0.50
1:F:92:MET:O	1:F:93:HIS:HD2	1.94	0.50
1:I:959:ILE:O	1:I:959:ILE:HG23	2.12	0.50
1:G:335:VAL:HG21	1:G:454:ILE:HG22	1.93	0.50
1:L:399:TYR:CE2	1:L:446:ARG:NH2	2.80	0.50
1:I:501:PRO:HG3	1:I:523:TRP:CZ3	2.47	0.50
1:H:797:GLU:O	1:H:800:ARG:O	2.30	0.50
1:G:821:ALA:O	1:G:840:HIS:HB3	2.12	0.50
1:O:369:GLU:O	1:O:372:MET:HB2	2.12	0.50
1:I:313:VAL:HG12	1:I:313:VAL:O	2.12	0.50
1:F:211:ASP:N	1:F:211:ASP:OD1	2.45	0.50
1:B:949:HIS:CD2	1:B:1020:TRP:HE1	2.30	0.50
1:I:317:THR:HG23	1:I:323:ILE:HD11	1.93	0.50
1:P:902:PRO:HD3	1:P:918:TRP:CZ2	2.46	0.50
1:M:429:ASP:OD1	1:M:431:ARG:HD3	2.11	0.50
1:E:91:GLN:HG2	1:E:190:ARG:NH2	2.26	0.50
1:J:377:LEU:CD2	1:J:708:TRP:HA	2.34	0.50
1:E:6:SER:O	1:E:10:VAL:HG23	2.11	0.50
1:H:245:GLN:HG2	1:H:288:ARG:HG2	1.92	0.50
1:L:151:HIS:CE1	1:L:161:TYR:CD1	2.99	0.50
1:K:168:PRO:O	1:K:442:ARG:NH2	2.45	0.50
1:I:282:ARG:HD2	1:L:418:HIS:O	2.11	0.50
1:H:608:PHE:CD1	1:H:614:HIS:HE1	2.30	0.50
1:O:895:VAL:HG21	1:O:922:LEU:HD12	1.94	0.50
1:P:440:VAL:HG11	1:P:475:ILE:HD11	1.91	0.50
1:A:7:LEU:HD13	1:A:74:LEU:CD1	2.40	0.50
1:A:832:ASP:O	1:A:833:ALA:HB2	2.11	0.50
1:H:559:TYR:HB2	1:H:562:LEU:CD1	2.41	0.50
1:E:1004:SER:OG	1:E:1006:GLU:OE2	2.29	0.50
1:F:258:VAL:HG12	1:F:293:LEU:HD11	1.93	0.50
1:M:110:ASN:N	1:M:111:PRO:HD3	2.27	0.50
1:C:917:ARG:HH22	1:C:943:GLU:CD	2.14	0.50
1:N:100:TYR:CE1	1:N:602:CYS:HB3	2.47	0.50
1:O:223:SER:O	1:O:224:ASP:HB2	2.11	0.50
1:O:123:TYR:N	1:O:123:TYR:CD1	2.80	0.50
1:I:301:TRP:HD1	1:I:307:ASN:O	1.94	0.50
1:M:649:ASN:OD1	1:M:704:ASN:OD1	2.30	0.50
1:I:1015:HIS:CE1	1:J:1015:HIS:CE1	2.99	0.50
1:G:343:LEU:HD23	1:G:348:PRO:CA	2.42	0.50
1:D:654:TRP:NE1	1:D:666:GLY:HA3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1015:HIS:ND1	1:L:1015:HIS:CE1	2.80	0.50
1:O:1004:SER:HB2	1:O:1006:GLU:OE2	2.12	0.50
1:B:282:ARG:HD2	1:C:418:HIS:O	2.12	0.50
1:H:797:GLU:O	1:H:800:ARG:C	2.50	0.50
1:C:308:LEU:HD13	1:C:329:ASP:HB3	1.93	0.50
1:K:60:PHE:CD1	1:K:61:ALA:N	2.79	0.50
1:A:736:ALA:O	1:A:737:ILE:HG22	2.12	0.50
1:I:748:CYS:C	1:I:749:ILE:HD12	2.33	0.50
1:A:399:TYR:CE1	1:A:446:ARG:NH2	2.80	0.50
1:D:932:PRO:HG2	1:D:970:THR:O	2.12	0.50
1:A:896:ASN:HB3	1:A:945:ASN:HB2	1.93	0.50
1:F:856:TYR:CD2	1:F:864:MET:HE2	2.47	0.49
1:E:261:TRP:CE3	1:E:266:GLN:HA	2.47	0.49
1:N:237:ARG:HD2	1:N:296:GLU:HG2	1.93	0.49
1:H:872:VAL:HG12	1:H:873:ALA:N	2.27	0.49
1:P:559:TYR:CD1	1:P:559:TYR:N	2.79	0.49
1:K:240:LEU:HB3	1:K:293:LEU:HB2	1.94	0.49
1:H:959:ILE:HG13	1:H:984:LEU:HD12	1.94	0.49
1:H:161:TYR:O	1:H:171:PHE:HZ	1.95	0.49
1:P:646:HIS:CD2	1:P:647:SER:N	2.80	0.49
1:H:832:ASP:O	1:H:833:ALA:HB2	2.12	0.49
1:G:210:ARG:HH12	1:G:394:ASN:C	2.15	0.49
1:O:652:LEU:O	1:O:667:GLU:HA	2.12	0.49
1:O:943:GLU:OE2	1:O:945:ASN:ND2	2.35	0.49
1:M:897:TRP:CE3	1:M:918:TRP:HB2	2.47	0.49
1:J:498:ILE:HG22	1:J:499:ILE:N	2.25	0.49
1:J:801:ILE:C	1:J:803:PRO:HD3	2.33	0.49
1:I:856:TYR:CD1	1:I:856:TYR:N	2.79	0.49
1:I:271:THR:HG22	1:I:272:ALA:H	1.77	0.49
1:E:118:ASN:HB2	1:E:119:PRO:HD2	1.94	0.49
1:N:202:MET:O	1:N:204:ARG:HD3	2.11	0.49
1:D:867:THR:HG22	1:D:867:THR:O	2.12	0.49
1:M:649:ASN:ND2	1:M:702:GLN:HG2	2.27	0.49
1:H:768:MET:HE2	1:H:770:ILE:HD11	1.94	0.49
1:E:549:PHE:HE2	1:E:620:ALA:HA	1.75	0.49
1:O:736:ALA:C	1:O:737:ILE:HG22	2.33	0.49
1:P:553:TRP:HB2	1:P:623:GLN:OE1	2.12	0.49
1:O:618:THR:HG22	1:O:912:ALA:HB1	1.93	0.49
1:D:592:PHE:HB2	1:D:594:ASP:OD1	2.12	0.49
1:L:686:PRO:C	1:L:688:PRO:HD3	2.32	0.49
1:E:469:ASP:O	1:E:470:ALA:C	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:149:ALA:O	1:O:150:PHE:HB3	2.11	0.49
1:C:971:SER:OG	1:C:972:HIS:ND1	2.39	0.49
1:J:814:GLY:HA2	3:J:1210:HOH:O	2.12	0.49
1:D:223:SER:O	1:D:224:ASP:HB2	2.11	0.49
1:F:689:GLU:O	1:F:690:SER:O	2.30	0.49
1:G:854:LYS:HA	1:G:867:THR:O	2.12	0.49
1:O:765:LEU:C	1:O:765:LEU:HD12	2.33	0.49
1:P:929:TYR:O	1:P:930:VAL:C	2.50	0.49
1:P:958:ASN:HA	3:P:1272:HOH:O	2.12	0.49
1:H:218:PRO:HD2	1:H:324:GLU:OE2	2.12	0.49
1:O:7:LEU:CD1	1:O:74:LEU:HD11	2.37	0.49
1:I:359:HIS:CD2	1:I:360:HIS:N	2.80	0.49
1:B:427:THR:HG21	1:B:462:SER:HB3	1.94	0.49
1:O:542:MET:HG3	1:O:603:MET:O	2.12	0.49
1:L:433:LEU:HD12	1:L:433:LEU:O	2.11	0.49
1:L:948:PRO:HD2	1:L:949:HIS:ND1	2.27	0.49
1:O:657:ALA:O	1:O:694:LEU:HD12	2.12	0.49
1:M:129:VAL:HG23	1:M:182:ASN:ND2	2.22	0.49
1:H:102:ASN:HB2	1:H:201:ASP:OD2	2.12	0.49
1:J:356:ARG:HG2	1:J:356:ARG:NH1	2.18	0.49
1:B:531:ARG:HB3	1:B:532:PRO:HD2	1.93	0.49
1:P:427:THR:O	1:P:467:ASN:ND2	2.45	0.49
1:A:881:ARG:HD3	1:A:987:ASP:OD2	2.12	0.49
1:O:650:GLU:HB3	1:O:670:LEU:HD12	1.93	0.49
1:F:655:MET:CE	1:F:662:PRO:HB3	2.41	0.49
1:P:1018:LEU:CD2	1:P:1019:VAL:H	2.25	0.49
1:K:797:GLU:O	1:K:800:ARG:C	2.50	0.49
1:D:237:ARG:HG3	1:D:237:ARG:HH11	1.76	0.49
1:L:391:HIS:CD2	1:L:460:ASN:ND2	2.79	0.49
1:C:941:THR:HG22	1:C:942:ARG:N	2.28	0.49
1:O:577:LYS:O	1:O:584:PRO:HA	2.12	0.49
1:K:1013:ARG:HG3	1:K:1013:ARG:NH1	2.27	0.49
1:D:262:GLN:HE22	1:D:299:LYS:HD2	1.76	0.49
1:D:573:GLN:HB2	1:D:602:CYS:HB2	1.95	0.49
1:D:91:GLN:HB3	1:D:98:PRO:HD3	1.94	0.49
1:K:814:GLY:O	1:K:815:HIS:C	2.51	0.49
1:M:69:VAL:HG12	1:M:70:PRO:N	2.27	0.49
1:M:578:TYR:HA	1:M:583:ASN:O	2.11	0.49
1:K:40:GLU:O	1:K:41:GLU:C	2.50	0.49
1:P:258:VAL:HG12	1:P:258:VAL:O	2.10	0.49
1:P:539:ALA:HB3	1:P:567:VAL:HG13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:411:ASP:HB3	1:M:443:MET:SD	2.52	0.49
1:M:538:TYR:O	1:M:567:VAL:HG13	2.12	0.49
1:G:360:HIS:CE1	1:G:363:HIS:ND1	2.81	0.49
1:E:797:GLU:N	1:E:800:ARG:O	2.34	0.49
1:B:43:ARG:O	1:B:310:ARG:HD3	2.12	0.49
1:D:589:GLY:HA3	1:D:599:ARG:CA	2.43	0.49
1:L:359:HIS:CD2	1:L:360:HIS:N	2.80	0.49
1:L:361:PRO:CD	1:L:362:LEU:H	2.24	0.49
1:H:26:ARG:HG2	3:H:1225:HOH:O	2.11	0.49
1:F:685:LEU:CB	1:F:686:PRO:HD2	2.30	0.49
1:H:589:GLY:C	1:H:597:ASN:HD22	2.14	0.49
1:M:972:HIS:HB2	1:M:975:LEU:HG	1.93	0.49
1:I:383:ASN:HD22	1:I:625:GLN:HA	1.75	0.49
1:K:127:PHE:CD1	1:K:127:PHE:N	2.80	0.49
1:E:410:VAL:O	1:E:410:VAL:HG12	2.12	0.49
1:O:917:ARG:NH2	1:O:943:GLU:OE2	2.45	0.49
1:G:65:ALA:HB1	1:G:67:GLU:HG3	1.94	0.49
1:L:30:HIS:O	1:L:31:PRO:O	2.29	0.49
1:D:7:LEU:O	1:D:11:LEU:HG	2.12	0.49
1:D:71:GLU:O	1:D:72:SER:C	2.50	0.49
1:O:940:GLY:N	1:O:956:GLN:OE1	2.43	0.49
1:O:755:ARG:NH2	1:O:769:TRP:CD1	2.81	0.49
1:J:272:ALA:HB1	1:J:273:PRO:HD2	1.95	0.49
1:M:465:GLY:O	1:M:468:HIS:HB2	2.13	0.49
1:L:334:GLU:CD	1:L:336:ARG:HD3	2.33	0.49
1:C:719:GLN:HE22	1:C:914:CYS:HB3	1.78	0.49
1:A:379:MET:O	1:A:380:LYS:C	2.49	0.49
1:J:817:GLN:HG2	3:J:1210:HOH:O	2.11	0.49
1:F:689:GLU:O	1:F:690:SER:C	2.48	0.49
1:B:783:GLN:NE2	1:B:985:ASN:OD1	2.40	0.49
1:H:519:SER:O	1:H:520:ILE:C	2.49	0.49
1:M:640:SER:OG	1:M:642:TYR:HB2	2.12	0.49
1:K:402:CYS:HB3	1:K:407:LEU:HB2	1.92	0.49
1:D:473:ARG:HD3	1:D:473:ARG:O	2.12	0.49
1:C:1013:ARG:NH1	1:D:954:ASP:OD2	2.45	0.49
1:M:153:TRP:CD1	1:M:158:TRP:HA	2.48	0.49
1:E:163:GLN:OE1	1:E:193:ASP:OD1	2.31	0.49
1:P:257:THR:HG23	1:P:271:THR:OG1	2.13	0.49
1:M:592:PHE:HB2	1:M:594:ASP:OD1	2.12	0.49
1:M:91:GLN:C	1:M:93:HIS:H	2.16	0.49
1:P:360:HIS:CE1	1:P:361:PRO:HD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:579:ASP:O	1:K:582:GLY:N	2.30	0.49
1:H:50:GLN:O	1:H:215:LEU:HA	2.12	0.49
1:H:37:ARG:NH2	1:H:216:HIS:O	2.44	0.49
1:H:325:ALA:C	1:H:326:GLU:HG2	2.33	0.49
1:E:240:LEU:HD12	1:E:241:GLU:H	1.76	0.49
1:H:742:THR:CG2	1:H:743:SER:H	2.10	0.49
1:H:276:GLY:N	1:H:285:TYR:O	2.40	0.49
1:O:568:TRP:CD2	1:O:569:ASP:HB3	2.47	0.49
1:I:375:ASP:OD1	1:I:611:ARG:NE	2.38	0.49
1:L:161:TYR:CG	1:L:162:GLY:N	2.80	0.49
1:P:647:SER:HA	1:P:650:GLU:OE1	2.12	0.49
1:D:197:LEU:HA	1:D:417:THR:HG22	1.94	0.49
1:N:668:VAL:HG12	1:N:668:VAL:O	2.11	0.49
1:P:331:GLY:HA3	1:P:451:PRO:HG3	1.94	0.49
1:O:952:ARG:O	1:O:1018:LEU:HD23	2.12	0.49
1:I:786:ARG:HH11	1:I:990:HIS:CE1	2.27	0.49
1:L:147:ASN:HB2	1:L:209:PHE:HE1	1.78	0.49
1:A:1004:SER:O	1:A:1007:PHE:N	2.26	0.49
1:N:694:LEU:HB3	1:N:723:ALA:H	1.77	0.49
1:L:40:GLU:OE1	1:L:43:ARG:NH1	2.46	0.49
1:F:246:MET:HE2	1:F:287:ASP:HB2	1.95	0.49
1:A:946:TYR:HE2	1:A:982:THR:HG1	1.55	0.49
1:M:454:ILE:HG13	1:M:455:ILE:CG1	2.42	0.49
1:F:452:SER:O	1:F:454:ILE:HG23	2.13	0.49
1:O:577:LYS:O	1:O:585:TRP:N	2.45	0.49
1:C:837:THR:HG22	1:C:837:THR:O	2.11	0.49
1:J:549:PHE:O	1:J:551:LYS:N	2.45	0.49
1:K:114:VAL:HG13	1:K:191:TRP:HB2	1.95	0.49
1:O:897:TRP:CZ3	1:O:918:TRP:HB2	2.46	0.49
1:C:737:ILE:HD13	1:C:831:ALA:O	2.11	0.49
1:F:127:PHE:CD1	1:F:127:PHE:N	2.80	0.49
1:D:301:TRP:HD1	1:D:307:ASN:O	1.96	0.49
1:J:199:ASP:OD2	1:J:419:GLY:N	2.45	0.49
1:F:576:ILE:HG22	1:F:577:LYS:N	2.27	0.49
1:E:499:ILE:HD11	1:E:529:GLU:HG2	1.94	0.49
1:A:822:LEU:C	1:A:823:LEU:HD23	2.32	0.49
1:A:654:TRP:CE2	1:A:666:GLY:HA3	2.47	0.49
1:I:261:TRP:CE3	1:I:266:GLN:HA	2.46	0.49
1:N:865:ALA:HA	1:N:1019:VAL:HG22	1.95	0.49
1:E:619:GLU:OE2	1:E:911:THR:HG23	2.12	0.49
1:B:788:PRO:HD2	1:B:968:MET:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:900:LEU:HB2	1:L:939:CYS:O	2.12	0.49
1:E:163:GLN:O	1:E:164:ASP:HB3	2.13	0.49
1:G:768:MET:HE2	1:G:1022:GLN:NE2	2.28	0.49
1:G:770:ILE:HG22	1:G:770:ILE:O	2.11	0.49
1:P:653:HIS:O	1:P:698:VAL:HA	2.13	0.49
1:K:823:LEU:HD11	1:K:841:ALA:HB2	1.95	0.49
1:L:166:ARG:CG	1:L:392:TYR:HB2	2.39	0.49
1:M:763:GLY:HA3	1:M:822:LEU:HD21	1.95	0.49
1:I:73:TRP:CE2	1:I:122:CYS:HB3	2.48	0.49
1:A:1020:TRP:CD1	1:A:1021:CYS:N	2.79	0.49
1:H:166:ARG:N	1:H:166:ARG:HD2	2.27	0.49
1:G:649:ASN:O	1:G:702:GLN:HG2	2.13	0.49
1:G:906:TYR:OH	1:G:935:ASN:HA	2.12	0.49
1:M:232:ASN:HD21	1:M:236:SER:N	2.10	0.49
1:E:533:LEU:C	1:E:533:LEU:HD12	2.32	0.49
1:H:822:LEU:O	1:H:823:LEU:HD23	2.13	0.49
1:M:176:PHE:N	1:M:176:PHE:CD1	2.80	0.49
1:M:654:TRP:O	1:M:665:SER:HA	2.13	0.49
1:G:651:LEU:HD12	1:G:651:LEU:C	2.31	0.49
1:N:46:ARG:HB3	1:N:47:PRO:CD	2.42	0.49
1:H:579:ASP:OD2	1:H:583:ASN:HB2	2.12	0.49
1:E:173:LEU:HD13	1:E:177:LEU:HD21	1.93	0.49
1:F:422:PRO:HG2	1:G:279:ILE:HD13	1.92	0.49
1:O:801:ILE:HG12	1:O:808:GLU:OE1	2.13	0.49
1:G:870:VAL:HG12	1:G:871:GLU:N	2.27	0.49
1:H:123:TYR:N	1:H:123:TYR:CD1	2.79	0.49
1:D:810:TRP:HH2	1:D:991:MET:HE2	1.78	0.49
1:D:545:SER:HA	1:D:993:ILE:HD12	1.94	0.49
1:L:742:THR:CG2	1:L:743:SER:N	2.76	0.49
1:E:608:PHE:CD1	1:E:614:HIS:HE1	2.31	0.49
1:E:698:VAL:HG23	1:E:698:VAL:O	2.12	0.49
1:H:46:ARG:HB3	1:H:47:PRO:CD	2.42	0.49
1:L:538:TYR:O	1:L:567:VAL:HA	2.13	0.49
1:F:632:SER:O	1:F:633:GLY:C	2.48	0.49
1:F:448:ARG:NH2	1:F:478:VAL:HG12	2.27	0.49
1:J:336:ARG:HH21	1:J:338:GLU:CD	2.16	0.49
1:D:610:ASP:O	1:D:611:ARG:HB2	2.11	0.49
1:N:278:ILE:HD13	1:N:283:GLY:HA2	1.94	0.49
1:F:226:HIS:N	1:F:226:HIS:CD2	2.78	0.49
1:A:772:ASP:OD1	1:A:772:ASP:N	2.29	0.49
1:P:136:GLU:O	1:P:137:GLY:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:34:ALA:HB1	1:M:48:SER:HB3	1.94	0.49
1:E:310:ARG:HG3	1:E:328:CYS:O	2.11	0.49
1:P:568:TRP:CD2	1:P:569:ASP:HB3	2.48	0.49
1:E:240:LEU:HD12	1:E:241:GLU:N	2.28	0.49
1:H:316:HIS:HD2	1:H:317:THR:O	1.94	0.49
1:H:815:HIS:HE2	1:H:876:THR:HG1	1.57	0.49
1:P:823:LEU:HD11	1:P:841:ALA:CB	2.43	0.49
1:J:822:LEU:CD1	1:J:824:GLN:H	2.25	0.49
1:E:66:PRO:O	1:E:69:VAL:N	2.38	0.49
1:I:7:LEU:HD13	1:I:74:LEU:HD11	1.94	0.49
1:K:775:GLN:HA	1:K:775:GLN:NE2	2.27	0.49
1:C:568:TRP:HE1	1:C:604:ASN:HD22	1.59	0.49
1:L:127:PHE:CE1	1:L:184:LEU:HD11	2.47	0.49
1:K:16:TRP:O	1:K:193:ASP:N	2.45	0.49
1:M:367:MET:O	1:M:368:ASP:HB3	2.13	0.49
1:J:111:PRO:HG3	1:J:196:TYR:CD1	2.47	0.49
1:M:765:LEU:HD22	1:M:864:MET:CE	2.43	0.49
1:I:36:TRP:O	1:I:37:ARG:HG2	2.12	0.49
1:O:758:PHE:HZ	1:O:864:MET:CE	2.25	0.49
1:P:810:TRP:O	1:P:811:LYS:O	2.30	0.49
1:P:467:ASN:O	1:P:471:LEU:HD12	2.13	0.49
1:N:14:ARG:NH1	1:N:16:TRP:CZ2	2.80	0.49
1:F:579:ASP:OD1	1:F:583:ASN:HB2	2.12	0.49
1:H:579:ASP:N	1:H:583:ASN:O	2.39	0.49
1:I:257:THR:HG22	1:I:258:VAL:N	2.27	0.49
1:N:190:ARG:HD3	1:N:191:TRP:CZ2	2.47	0.49
1:L:420:MET:HE1	1:L:426:LEU:HD11	1.93	0.49
1:G:801:ILE:HG23	1:G:808:GLU:CD	2.32	0.49
1:F:906:TYR:HB3	1:F:907:PRO:CD	2.41	0.49
1:B:533:LEU:HD12	1:B:534:ILE:N	2.27	0.49
1:P:501:PRO:HD2	1:P:533:LEU:CD1	2.43	0.49
1:O:740:LEU:CD1	1:O:749:ILE:HD11	2.43	0.49
1:F:350:LEU:O	1:F:385:ASN:OD1	2.29	0.49
1:D:34:ALA:HB3	1:D:36:TRP:CE3	2.47	0.49
1:N:167:LEU:HD11	1:N:443:MET:HA	1.94	0.49
1:B:816:TYR:N	3:B:1209:HOH:O	2.35	0.49
1:G:1008:GLN:O	1:G:1010:SER:N	2.46	0.49
1:K:785:THR:HA	1:K:880:ALA:HB3	1.95	0.49
1:I:103:VAL:HB	3:I:1215:HOH:O	2.13	0.49
1:M:140:ARG:NE	1:M:170:GLU:OE1	2.44	0.49
1:P:92:MET:HE2	1:P:575:LEU:HD22	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:427:THR:HG22	1:M:436:MET:HE2	1.94	0.49
1:P:145:GLY:O	1:P:146:VAL:HG23	2.11	0.49
1:L:951:TRP:HB3	1:L:1018:LEU:CD2	2.42	0.49
1:O:685:LEU:CB	1:O:686:PRO:HD2	2.26	0.49
1:D:599:ARG:HB2	1:D:600:GLN:CG	2.33	0.49
1:O:501:PRO:HD2	1:O:533:LEU:HD11	1.95	0.49
1:F:1020:TRP:CD1	1:F:1021:CYS:N	2.80	0.49
1:P:949:HIS:N	1:P:949:HIS:ND1	2.59	0.49
1:H:836:ILE:HG22	1:H:837:THR:N	2.26	0.49
1:H:99:ILE:HD11	1:H:190:ARG:HH12	1.76	0.49
1:L:904:GLU:CG	1:L:906:TYR:HE1	2.26	0.49
1:B:921:PRO:O	1:B:922:LEU:C	2.49	0.49
1:G:739:HIS:O	1:G:740:LEU:O	2.30	0.49
1:O:410:VAL:HG12	1:O:410:VAL:O	2.13	0.49
1:E:607:VAL:HG12	1:E:613:PRO:HA	1.95	0.49
1:I:487:GLU:O	1:I:491:ALA:N	2.45	0.49
1:M:256:VAL:O	1:M:271:THR:HA	2.13	0.49
1:J:7:LEU:CD1	1:J:74:LEU:HD11	2.42	0.49
1:F:163:GLN:OE1	1:F:193:ASP:OD1	2.31	0.49
1:O:110:ASN:O	1:O:113:PHE:N	2.46	0.49
1:O:274:PHE:CD2	1:O:289:VAL:HG12	2.48	0.49
1:N:5:ASP:OD2	1:N:157:ARG:HG2	2.13	0.49
1:N:797:GLU:O	1:N:800:ARG:O	2.31	0.49
1:K:339:ASN:C	1:K:341:LEU:H	2.16	0.49
1:L:410:VAL:HG22	1:L:455:ILE:HB	1.95	0.49
1:H:937:LEU:HD23	1:H:939:CYS:SG	2.53	0.49
1:D:23:GLN:O	1:D:24:LEU:HD13	2.12	0.49
1:A:127:PHE:HE1	1:A:184:LEU:HG	1.78	0.49
1:P:629:PHE:CD1	1:P:629:PHE:N	2.80	0.49
1:I:767:GLN:CG	1:I:768:MET:N	2.76	0.49
1:D:34:ALA:O	1:D:35:SER:HB3	2.13	0.49
1:O:234:ASP:OD1	1:O:236:SER:OG	2.30	0.49
1:K:223:SER:O	1:K:224:ASP:HB2	2.13	0.49
1:D:25:ASN:ND2	1:D:158:TRP:CZ3	2.81	0.49
1:O:1019:VAL:O	1:O:1019:VAL:HG12	2.12	0.49
1:G:783:GLN:HB3	3:G:1283:HOH:O	2.13	0.49
1:B:636:ILE:HD11	1:B:682:LEU:HD11	1.95	0.49
1:L:502:MET:HB2	1:L:537:GLU:HB2	1.95	0.49
1:P:217:LYS:NZ	1:P:324:GLU:OE2	2.46	0.49
1:M:413:ALA:HB2	1:M:443:MET:HE1	1.94	0.49
1:F:823:LEU:HB2	1:F:839:ALA:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:630:ARG:NH1	1:E:637:GLU:OE2	2.46	0.49
1:P:394:ASN:O	1:P:395:HIS:O	2.30	0.49
1:H:118:ASN:O	1:H:120:THR:N	2.45	0.49
1:H:572:ASP:CG	1:H:603:MET:HB3	2.33	0.49
1:L:984:LEU:HD21	1:L:986:ILE:CD1	2.42	0.49
1:N:436:MET:CA	1:N:439:ARG:HG3	2.34	0.49
1:K:261:TRP:CE3	1:K:266:GLN:HB2	2.48	0.49
1:N:741:THR:HG22	1:N:741:THR:O	2.12	0.49
1:K:24:LEU:HB2	1:K:161:TYR:HB3	1.94	0.49
1:K:234:ASP:OD1	1:K:236:SER:OG	2.28	0.49
1:I:100:TYR:O	1:I:597:ASN:HA	2.13	0.49
1:M:369:GLU:O	1:M:372:MET:HB2	2.13	0.49
1:B:377:LEU:HD23	1:B:708:TRP:CA	2.39	0.49
1:C:580:GLU:HB2	1:C:581:ASN:OD1	2.13	0.49
1:K:102:ASN:ND2	1:K:201:ASP:HB2	2.26	0.49
1:O:668:VAL:HG11	1:O:680:ILE:HG21	1.91	0.49
1:H:645:ARG:NH2	1:H:650:GLU:OE1	2.46	0.49
1:E:559:TYR:CB	1:E:562:LEU:HD12	2.40	0.49
1:D:390:SER:HB2	1:D:391:HIS:ND1	2.28	0.49
1:F:236:SER:C	1:F:237:ARG:HG2	2.28	0.49
1:O:594:ASP:OD1	1:O:594:ASP:N	2.41	0.49
1:O:745:MET:O	1:O:746:ASP:HB3	2.13	0.49
1:K:416:GLU:HG3	1:K:418:HIS:H	1.77	0.49
1:H:159:VAL:HG12	1:H:160:GLY:N	2.27	0.49
1:L:506:VAL:CG1	1:L:521:LYS:HE3	2.42	0.49
1:C:84:VAL:HG12	1:C:85:VAL:N	2.28	0.49
1:F:147:ASN:HB2	1:F:209:PHE:CE1	2.47	0.49
1:M:629:PHE:N	1:M:629:PHE:CD1	2.80	0.49
1:J:1005:ALA:O	1:J:1007:PHE:N	2.46	0.49
1:P:23:GLN:OE1	1:P:26:ARG:HB3	2.13	0.49
1:A:393:PRO:HD2	1:A:414:ASN:HB2	1.93	0.49
1:M:777:LEU:CG	1:M:889:ALA:HB2	2.42	0.49
1:M:326:GLU:HA	1:M:326:GLU:OE1	2.12	0.49
1:P:652:LEU:HD12	1:P:653:HIS:N	2.27	0.49
1:M:536:CYS:O	1:M:566:PHE:HB2	2.12	0.49
1:P:225:PHE:O	1:P:226:HIS:HD2	1.96	0.49
1:L:73:TRP:HZ2	1:L:123:TYR:O	1.95	0.49
1:L:89:ASN:O	1:L:90:TRP:C	2.51	0.49
1:B:40:GLU:O	1:B:41:GLU:C	2.48	0.49
1:P:474:TRP:CH2	1:P:478:VAL:HG21	2.45	0.49
1:P:767:GLN:CD	1:P:774:LYS:HB3	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:778:THR:HB	1:E:887:GLN:CB	2.41	0.49
1:M:307:ASN:C	1:M:308:LEU:HD23	2.33	0.49
1:L:58:TRP:CE2	1:L:125:LEU:HD22	2.47	0.49
1:I:778:THR:CG2	1:I:779:PRO:HD2	2.42	0.49
1:O:227:VAL:HG12	1:O:228:ALA:N	2.28	0.49
1:O:856:TYR:CE2	1:O:866:ILE:HD13	2.48	0.49
1:D:579:ASP:OD1	1:D:583:ASN:HB2	2.12	0.49
1:M:352:ARG:HG2	1:M:624:GLN:HB3	1.95	0.49
1:L:14:ARG:CG	1:L:14:ARG:HH11	2.25	0.49
1:M:606:LEU:HB3	1:M:617:LEU:HD12	1.94	0.49
1:B:698:VAL:HG22	1:B:718:GLN:CA	2.43	0.49
1:O:26:ARG:HD2	1:O:442:ARG:NH2	2.28	0.49
1:K:190:ARG:HG2	1:K:206:SER:HB3	1.94	0.49
1:N:190:ARG:NH2	1:N:204:ARG:O	2.41	0.49
1:K:894:ARG:HH12	1:K:919:ASP:C	2.16	0.49
1:L:653:HIS:CD2	1:L:667:GLU:CG	2.96	0.49
1:J:608:PHE:O	1:J:610:ASP:N	2.46	0.49
1:A:287:ASP:CG	1:D:425:ARG:HH22	2.16	0.49
1:B:356:ARG:HD2	1:B:379:MET:HE1	1.94	0.49
1:I:38:ASN:HB3	1:I:41:GLU:HB2	1.95	0.49
1:G:603:MET:O	1:G:604:ASN:OD1	2.30	0.49
1:G:647:SER:OG	1:G:672:VAL:HG23	2.12	0.49
1:F:945:ASN:OD1	1:F:950:GLN:NE2	2.46	0.49
1:N:517:LYS:HE2	3:N:1271:HOH:O	2.13	0.49
1:J:301:TRP:CE3	1:J:302:SER:N	2.81	0.49
1:H:620:ALA:O	1:H:621:LYS:C	2.47	0.49
1:H:397:LEU:O	1:H:397:LEU:HD12	2.12	0.49
1:C:127:PHE:CD1	1:C:127:PHE:N	2.79	0.49
1:P:211:ASP:N	1:P:211:ASP:OD1	2.44	0.49
1:J:524:LEU:HD23	1:J:524:LEU:HA	1.45	0.49
1:B:386:ALA:HB1	1:B:408:TYR:O	2.13	0.49
1:P:173:LEU:O	1:P:176:PHE:N	2.42	0.49
1:M:388:ARG:NH1	1:M:536:CYS:HB2	2.27	0.49
1:M:433:LEU:O	1:M:437:SER:HB3	2.12	0.49
1:I:209:PHE:CD1	1:I:210:ARG:HG2	2.47	0.49
1:H:69:VAL:CG1	1:H:70:PRO:HD2	2.41	0.49
1:K:3:ILE:O	1:K:3:ILE:HG13	1.94	0.49
1:C:236:SER:C	1:C:237:ARG:HG2	2.32	0.49
1:O:377:LEU:HD22	1:O:708:TRP:CB	2.43	0.49
1:G:635:THR:CG2	1:G:681:GLU:HG3	2.42	0.49
1:M:284:GLY:HA2	1:P:422:PRO:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:903:GLN:O	1:D:904:GLU:C	2.50	0.49
1:L:636:ILE:O	1:L:680:ILE:N	2.43	0.49
1:C:37:ARG:NH1	1:C:37:ARG:HG3	2.24	0.49
1:F:45:ASP:O	1:F:46:ARG:O	2.31	0.49
1:O:758:PHE:HZ	1:O:864:MET:HE3	1.77	0.49
1:C:579:ASP:OD1	1:C:583:ASN:OD1	2.31	0.49
1:A:322:LEU:HD21	1:A:324:GLU:C	2.32	0.49
1:G:322:LEU:HD21	1:G:324:GLU:C	2.32	0.49
1:G:742:THR:HG22	1:G:743:SER:O	2.13	0.49
1:L:492:ASP:CB	1:L:499:ILE:HG23	2.43	0.49
1:K:166:ARG:HG2	1:K:392:TYR:HB2	1.95	0.49
1:B:279:ILE:HD13	1:C:422:PRO:CG	2.43	0.49
1:H:670:LEU:HA	1:H:670:LEU:HD23	1.56	0.49
1:I:461:GLU:HA	3:I:1239:HOH:O	2.12	0.49
1:G:225:PHE:C	1:G:226:HIS:HD2	2.17	0.49
1:B:868:VAL:HG21	1:B:1016:TYR:CZ	2.48	0.49
1:J:369:GLU:HG2	1:J:397:LEU:HD21	1.95	0.49
1:E:645:ARG:NH1	1:E:648:ASP:OD1	2.45	0.49
1:I:797:GLU:O	1:I:800:ARG:C	2.52	0.49
1:I:797:GLU:O	1:I:800:ARG:O	2.31	0.49
1:E:1012:GLY:O	1:E:1013:ARG:HG3	2.13	0.49
1:O:740:LEU:HD13	1:O:749:ILE:HD11	1.93	0.49
1:D:30:HIS:CE1	1:D:33:PHE:CD2	3.01	0.49
1:F:304:GLU:C	1:F:305:ILE:HG12	2.32	0.49
1:A:411:ASP:HB2	1:A:453:VAL:HG13	1.94	0.49
1:J:301:TRP:CE3	1:J:302:SER:HA	2.48	0.49
1:D:756:TRP:CD2	1:D:858:ILE:HD13	2.48	0.49
1:G:354:VAL:HG22	1:G:355:ASN:O	2.12	0.49
1:A:647:SER:OG	1:A:672:VAL:N	2.40	0.49
1:G:764:PHE:HD1	3:G:1264:HOH:O	1.94	0.49
1:A:487:GLU:HB3	3:A:1219:HOH:O	2.13	0.49
1:B:1019:VAL:O	1:B:1019:VAL:HG12	2.12	0.49
1:C:867:THR:O	1:C:867:THR:HG22	2.11	0.49
1:G:256:VAL:O	1:G:256:VAL:HG12	2.12	0.49
1:E:837:THR:O	1:E:837:THR:HG22	2.12	0.49
1:K:209:PHE:H	1:K:209:PHE:HD1	1.60	0.49
1:P:644:PHE:O	1:P:674:PRO:HG3	2.12	0.49
1:D:479:ASP:OD2	1:D:482:ARG:HD2	2.12	0.49
1:E:827:ALA:O	1:E:828:ASP:OD1	2.30	0.49
1:M:187:MET:HG2	1:M:187:MET:O	2.13	0.48
1:P:139:THR:HG21	1:P:177:LEU:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:39:SER:O	1:P:40:GLU:C	2.48	0.48
1:I:131:GLU:O	1:I:132:SER:C	2.51	0.48
1:P:929:TYR:O	1:P:931:PHE:N	2.46	0.48
1:P:540:HIS:HA	1:P:568:TRP:O	2.13	0.48
1:M:448:ARG:HG3	1:M:449:ASN:N	2.25	0.48
1:M:512:PHE:CD2	1:M:517:LYS:HG3	2.47	0.48
1:K:66:PRO:HB3	1:K:187:MET:CE	2.43	0.48
1:P:194:GLY:O	1:P:197:LEU:N	2.34	0.48
1:H:79:PRO:HD2	1:H:80:GLU:H	1.76	0.48
1:E:425:ARG:NH2	1:H:285:TYR:HD1	2.11	0.48
1:A:251:ARG:O	1:A:254:LEU:N	2.42	0.48
1:E:576:ILE:O	1:E:576:ILE:HG22	2.13	0.48
1:K:597:ASN:HD22	1:K:599:ARG:H	1.61	0.48
1:E:970:THR:HB	1:E:976:LEU:HD21	1.95	0.48
1:L:890:GLN:O	1:L:891:VAL:HG23	2.13	0.48
1:O:103:VAL:HG22	1:O:418:HIS:CG	2.48	0.48
1:G:936:GLY:O	1:G:937:LEU:O	2.29	0.48
1:M:230:ARG:O	1:M:238:ALA:HA	2.13	0.48
1:M:764:PHE:CE1	1:M:840:HIS:NE2	2.80	0.48
1:M:906:TYR:O	1:M:910:LEU:HD23	2.13	0.48
1:M:546:LEU:HD22	1:M:616:ALA:HB1	1.95	0.48
1:E:355:ASN:ND2	1:E:566:PHE:HB3	2.27	0.48
1:L:909:ARG:O	1:L:909:ARG:HG2	2.13	0.48
1:O:110:ASN:O	1:O:113:PHE:HB2	2.12	0.48
1:G:540:HIS:HD2	1:G:568:TRP:CD1	2.26	0.48
1:N:73:TRP:HZ2	1:N:123:TYR:O	1.96	0.48
1:K:608:PHE:CE2	1:K:614:HIS:CE1	3.01	0.48
1:B:937:LEU:HD23	1:B:939:CYS:SG	2.52	0.48
1:N:768:MET:HG2	1:N:775:GLN:HB2	1.95	0.48
1:F:250:LEU:O	1:F:251:ARG:HG2	2.13	0.48
1:L:420:MET:HE3	1:L:426:LEU:HD11	1.94	0.48
1:C:928:PRO:HB2	1:C:973:ARG:NH1	2.28	0.48
1:D:601:PHE:CE2	1:D:795:VAL:HG12	2.47	0.48
1:K:257:THR:HB	1:K:314:GLU:HG3	1.95	0.48
1:H:131:GLU:O	1:H:134:LEU:N	2.36	0.48
1:H:997:ASP:OD1	1:H:999:TRP:N	2.36	0.48
1:A:777:LEU:CD1	1:A:889:ALA:HA	2.43	0.48
1:H:234:ASP:CG	1:H:236:SER:HG	2.16	0.48
1:O:102:ASN:HD22	1:O:201:ASP:HB2	1.79	0.48
1:M:317:THR:O	1:M:320:GLY:N	2.38	0.48
1:B:10:VAL:O	1:B:13:ARG:HG3	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:815:HIS:H	1:K:815:HIS:CD2	2.31	0.48
1:J:850:PHE:HD2	1:J:872:VAL:HG13	1.77	0.48
1:M:560:PRO:HD3	1:N:522:LYS:HE3	1.95	0.48
1:J:263:GLY:C	1:J:265:THR:H	2.17	0.48
1:C:226:HIS:N	1:C:226:HIS:CD2	2.80	0.48
1:K:780:LEU:HG	1:K:780:LEU:O	2.13	0.48
1:P:347:LYS:HB2	1:P:643:LEU:HD13	1.94	0.48
1:I:3:ILE:O	1:I:9:VAL:HG21	2.13	0.48
1:B:687:GLN:O	1:B:688:PRO:O	2.30	0.48
1:N:873:ALA:O	1:N:876:THR:N	2.46	0.48
1:F:797:GLU:O	1:F:800:ARG:O	2.30	0.48
1:P:172:ASP:O	1:P:173:LEU:HD23	2.13	0.48
1:P:100:TYR:CE1	1:P:602:CYS:HB3	2.49	0.48
1:B:778:THR:HG22	1:B:779:PRO:CD	2.36	0.48
1:I:685:LEU:HA	1:I:685:LEU:HD23	1.57	0.48
1:L:360:HIS:CG	1:L:361:PRO:HD2	2.48	0.48
1:H:26:ARG:HD3	1:H:169:SER:OG	2.13	0.48
1:H:177:LEU:HD23	1:H:177:LEU:N	2.28	0.48
1:K:905:ASN:O	1:K:937:LEU:HD23	2.13	0.48
1:B:782:ASP:HB2	1:B:842:TRP:CZ2	2.47	0.48
1:K:748:CYS:O	1:K:749:ILE:HG12	2.12	0.48
1:P:433:LEU:O	1:P:434:PRO:C	2.51	0.48
1:O:701:VAL:HG12	1:O:712:GLY:HA2	1.95	0.48
1:N:382:ASN:HA	1:N:621:LYS:HD2	1.94	0.48
1:P:1019:VAL:O	1:P:1019:VAL:HG12	2.13	0.48
1:J:800:ARG:C	1:J:801:ILE:HD12	2.33	0.48
1:C:685:LEU:CD2	1:C:686:PRO:HD2	2.42	0.48
1:M:524:LEU:O	1:M:561:ARG:NH2	2.45	0.48
1:M:451:PRO:O	1:M:453:VAL:O	2.30	0.48
1:L:610:ASP:O	1:L:611:ARG:HB2	2.12	0.48
1:D:102:ASN:CG	1:D:103:VAL:HG23	2.33	0.48
1:D:102:ASN:HD22	1:D:201:ASP:CG	2.16	0.48
1:K:271:THR:HG22	1:K:272:ALA:N	2.28	0.48
1:L:653:HIS:CD2	1:L:667:GLU:HG3	2.47	0.48
1:F:679:LEU:N	1:F:679:LEU:HD23	2.28	0.48
1:N:304:GLU:OE2	1:N:643:LEU:N	2.28	0.48
1:B:227:VAL:HG13	1:B:240:LEU:HD11	1.95	0.48
1:C:767:GLN:HA	1:C:776:LEU:HD12	1.95	0.48
1:D:673:ALA:O	1:D:674:PRO:C	2.47	0.48
1:O:327:ALA:O	1:O:328:CYS:HB3	2.13	0.48
1:A:906:TYR:HB3	1:A:907:PRO:HD2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:555:ALA:O	1:M:556:PHE:C	2.49	0.48
1:A:285:TYR:HB2	1:A:288:ARG:HB2	1.96	0.48
1:J:837:THR:HG22	1:J:837:THR:O	2.13	0.48
1:A:290:THR:O	1:A:290:THR:HG22	2.12	0.48
1:B:281:GLU:N	1:B:281:GLU:OE1	2.36	0.48
1:G:958:ASN:OD1	1:G:985:ASN:ND2	2.46	0.48
1:C:436:MET:HE3	1:C:467:ASN:HD22	1.76	0.48
1:H:758:PHE:O	1:H:759:ASN:C	2.49	0.48
1:P:958:ASN:O	1:P:958:ASN:OD1	2.32	0.48
1:M:353:GLY:HA3	1:M:386:ALA:O	2.13	0.48
1:M:423:MET:N	1:P:280:ASP:OD2	2.44	0.48
1:P:62:TRP:CZ3	1:P:64:PRO:N	2.81	0.48
1:P:823:LEU:O	1:P:824:GLN:HB2	2.12	0.48
1:E:16:TRP:CE3	1:E:189:LEU:HD11	2.48	0.48
1:P:252:ASP:O	1:P:255:ARG:NH1	2.45	0.48
1:H:878:HIS:N	1:H:878:HIS:ND1	2.59	0.48
1:G:858:ILE:HA	1:G:863:GLN:O	2.13	0.48
1:P:767:GLN:OE1	1:P:768:MET:N	2.35	0.48
1:H:102:ASN:ND2	1:H:201:ASP:HB2	2.23	0.48
1:L:966:GLN:OE1	1:L:976:LEU:HA	2.13	0.48
1:J:10:VAL:HG11	1:J:153:TRP:CZ2	2.49	0.48
1:M:412:GLU:HG3	1:M:457:SER:CB	2.40	0.48
1:I:36:TRP:CE2	1:I:42:ALA:HA	2.48	0.48
1:P:952:ARG:O	1:P:1018:LEU:HD23	2.14	0.48
1:L:599:ARG:HB2	1:L:600:GLN:HG3	1.95	0.48
1:B:652:LEU:HD11	1:B:698:VAL:HB	1.94	0.48
1:G:540:HIS:CD2	1:G:568:TRP:CD1	3.00	0.48
1:A:460:ASN:ND2	1:A:461:GLU:HG3	2.29	0.48
1:H:429:ASP:OD1	1:H:431:ARG:HG3	2.13	0.48
1:H:210:ARG:O	1:H:211:ASP:O	2.30	0.48
1:F:767:GLN:CD	1:F:774:LYS:HG2	2.33	0.48
1:A:701:VAL:O	1:A:703:PRO:HD3	2.13	0.48
1:P:689:GLU:O	1:P:690:SER:C	2.51	0.48
1:A:856:TYR:HB3	1:A:864:MET:HE2	1.95	0.48
1:P:533:LEU:O	1:P:534:ILE:HG13	2.13	0.48
1:N:176:PHE:N	1:N:176:PHE:CD1	2.81	0.48
1:J:950:GLN:OE1	1:J:952:ARG:NE	2.46	0.48
1:H:764:PHE:CE1	1:H:840:HIS:NE2	2.81	0.48
1:E:102:ASN:ND2	1:E:201:ASP:OD1	2.46	0.48
1:A:740:LEU:HD12	1:A:741:THR:N	2.27	0.48
1:C:141:ILE:HB	1:C:173:LEU:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:955:PHE:CD1	1:E:955:PHE:N	2.80	0.48
1:O:265:THR:O	1:O:265:THR:HG22	2.13	0.48
1:C:742:THR:HG22	1:C:743:SER:N	2.28	0.48
1:M:868:VAL:HB	1:M:1016:TYR:CE1	2.47	0.48
1:P:311:ALA:O	1:P:327:ALA:HA	2.13	0.48
1:P:34:ALA:CB	1:P:36:TRP:CZ3	2.96	0.48
1:M:197:LEU:CD1	1:M:439:ARG:HE	2.12	0.48
1:M:422:PRO:HG2	1:P:279:ILE:HD13	1.94	0.48
1:P:313:VAL:O	1:P:313:VAL:HG12	2.12	0.48
1:H:317:THR:OG1	1:H:319:ASP:OD2	2.30	0.48
1:H:814:GLY:HA3	1:H:844:HIS:CD2	2.48	0.48
1:E:421:VAL:O	1:E:425:ARG:HD2	2.13	0.48
1:I:186:VAL:HG12	1:I:187:MET:N	2.28	0.48
1:B:7:LEU:HD22	1:B:71:GLU:HA	1.95	0.48
1:B:897:TRP:CE2	1:B:918:TRP:HB2	2.47	0.48
1:E:287:ASP:N	1:E:287:ASP:OD1	2.45	0.48
1:M:367:MET:HE3	1:M:371:THR:HB	1.94	0.48
1:F:837:THR:HG22	1:F:837:THR:O	2.12	0.48
1:I:324:GLU:HG2	1:I:325:ALA:N	2.27	0.48
1:K:632:SER:N	1:K:635:THR:O	2.37	0.48
1:E:965:GLN:O	1:E:966:GLN:C	2.49	0.48
1:I:91:GLN:C	1:I:93:HIS:H	2.16	0.48
1:C:920:LEU:HB3	1:C:921:PRO:CD	2.40	0.48
1:E:789:LEU:HD12	1:E:792:ASP:OD2	2.14	0.48
1:F:134:LEU:HD12	1:F:179:ALA:HB2	1.94	0.48
1:I:933:SER:O	1:I:934:GLU:C	2.50	0.48
1:G:1015:HIS:NE2	1:G:1017:GLN:OE1	2.46	0.48
1:I:822:LEU:C	1:I:822:LEU:HD12	2.33	0.48
1:I:141:ILE:HD12	1:I:214:LEU:HD21	1.95	0.48
1:L:854:LYS:HA	1:L:867:THR:O	2.13	0.48
1:F:99:ILE:HG22	1:F:100:TYR:N	2.28	0.48
1:G:801:ILE:O	1:G:803:PRO:HD3	2.14	0.48
1:K:1019:VAL:HG12	1:K:1019:VAL:O	2.13	0.48
1:O:577:LYS:NZ	1:O:591:ASP:O	2.36	0.48
1:F:533:LEU:HD12	1:F:534:ILE:N	2.28	0.48
1:I:701:VAL:O	1:I:703:PRO:HD3	2.13	0.48
1:C:415:ILE:HG12	1:C:439:ARG:HD2	1.94	0.48
1:B:188:VAL:C	1:B:189:LEU:HD23	2.33	0.48
1:F:622:HIS:O	1:F:625:GLN:HG2	2.14	0.48
1:J:301:TRP:CD2	1:J:302:SER:N	2.80	0.48
1:D:89:ASN:HD22	1:D:206:SER:H	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:829:THR:C	1:O:830:LEU:HD13	2.34	0.48
1:F:146:VAL:HG22	1:F:208:ILE:HG12	1.95	0.48
1:H:635:THR:HG23	1:H:681:GLU:CD	2.34	0.48
1:G:836:ILE:HG22	1:G:837:THR:N	2.28	0.48
1:E:315:LEU:O	1:E:323:ILE:HB	2.14	0.48
1:H:1004:SER:OG	1:H:1006:GLU:OE2	2.28	0.48
1:H:655:MET:HG2	1:H:656:VAL:N	2.28	0.48
1:O:555:ALA:O	1:O:556:PHE:C	2.49	0.48
1:M:882:ILE:O	1:M:882:ILE:HG22	2.12	0.48
1:F:726:LEU:HD23	1:F:726:LEU:N	2.25	0.48
1:P:769:TRP:CE3	1:P:769:TRP:N	2.81	0.48
1:N:109:VAL:O	1:N:109:VAL:HG12	2.11	0.48
1:J:479:ASP:O	1:J:481:SER:N	2.47	0.48
1:D:939:CYS:HA	1:D:956:GLN:HB3	1.96	0.48
1:P:927:THR:N	1:P:935:ASN:OD1	2.32	0.48
1:P:388:ARG:NH1	1:P:536:CYS:HB2	2.28	0.48
1:E:123:TYR:CD2	1:E:208:ILE:HD12	2.49	0.48
1:E:73:TRP:HZ2	1:E:123:TYR:O	1.95	0.48
1:H:743:SER:OG	1:H:744:GLU:N	2.45	0.48
1:L:6:SER:OG	1:L:6:SER:O	2.30	0.48
1:M:356:ARG:HH11	1:M:356:ARG:CG	2.21	0.48
1:P:891:VAL:O	1:P:891:VAL:HG12	2.13	0.48
1:K:600:GLN:O	1:K:602:CYS:N	2.47	0.48
1:M:802:ASP:C	1:M:804:ASN:H	2.17	0.48
1:B:36:TRP:C	1:B:37:ARG:HG2	2.33	0.48
1:L:832:ASP:O	1:L:833:ALA:HB2	2.14	0.48
1:C:40:GLU:O	1:C:41:GLU:C	2.49	0.48
1:M:232:ASN:OD1	1:M:232:ASN:N	2.33	0.48
1:M:210:ARG:HH12	1:M:394:ASN:C	2.17	0.48
1:F:425:ARG:HH22	1:G:287:ASP:CG	2.17	0.48
1:K:974:HIS:CD2	1:K:975:LEU:HG	2.47	0.48
1:M:967:LEU:HA	1:M:967:LEU:HD23	1.63	0.48
1:O:835:LEU:HD12	1:O:856:TYR:O	2.12	0.48
1:D:57:GLU:HG2	1:D:83:THR:HG21	1.93	0.48
1:C:708:TRP:CD1	1:C:708:TRP:N	2.81	0.48
1:M:910:LEU:HD12	1:M:910:LEU:C	2.34	0.48
1:L:254:LEU:C	1:L:255:ARG:HD3	2.34	0.48
1:M:159:VAL:HG22	1:M:176:PHE:CE2	2.49	0.48
1:P:227:VAL:HG13	1:P:240:LEU:HD11	1.94	0.48
1:N:262:GLN:HB2	1:N:309:TYR:CD1	2.48	0.48
1:H:356:ARG:HD2	1:H:379:MET:CE	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:210:ARG:HH12	1:F:395:HIS:N	2.12	0.48
1:L:810:TRP:CZ2	1:L:991:MET:HE1	2.49	0.48
1:K:896:ASN:HA	1:K:918:TRP:O	2.14	0.48
1:G:433:LEU:O	1:G:434:PRO:C	2.50	0.48
1:P:297:ASN:O	1:P:298:PRO:O	2.31	0.48
1:E:1013:ARG:HB2	1:E:1013:ARG:CZ	2.43	0.48
1:H:994:GLY:CA	1:H:1003:VAL:HG22	2.43	0.48
1:P:501:PRO:HD2	1:P:533:LEU:HD13	1.95	0.48
1:O:748:CYS:C	1:O:749:ILE:HD12	2.33	0.48
1:A:951:TRP:N	1:A:951:TRP:CE3	2.82	0.48
1:E:444:VAL:O	1:E:448:ARG:HB3	2.13	0.48
1:A:446:ARG:NE	1:A:447:ASP:OD1	2.33	0.48
1:I:505:ARG:O	1:I:519:SER:HA	2.14	0.48
1:J:896:ASN:HA	1:J:918:TRP:O	2.13	0.48
1:N:356:ARG:HD2	1:N:379:MET:HE1	1.95	0.48
1:K:62:TRP:CD1	1:K:95:TYR:HB3	2.49	0.48
1:C:271:THR:HG22	1:C:272:ALA:N	2.28	0.48
1:J:352:ARG:CZ	1:J:626:PHE:CE1	2.97	0.48
1:B:420:MET:HA	1:B:420:MET:HE3	1.94	0.48
1:M:69:VAL:CG1	1:M:70:PRO:HD2	2.41	0.48
1:F:777:LEU:HD12	1:F:889:ALA:CA	2.23	0.48
1:P:38:ASN:OD1	1:P:39:SER:N	2.47	0.48
1:L:546:LEU:HD22	1:L:616:ALA:CB	2.24	0.48
1:P:619:GLU:HA	1:P:619:GLU:OE1	2.13	0.48
1:M:456:TRP:HE1	1:M:482:ARG:HB2	1.78	0.48
1:F:708:TRP:N	1:F:708:TRP:CD1	2.81	0.48
1:E:57:GLU:HA	1:E:84:VAL:O	2.13	0.48
1:H:814:GLY:O	1:H:816:TYR:N	2.46	0.48
1:E:62:TRP:CD1	1:E:95:TYR:HB3	2.49	0.48
1:K:657:ALA:HA	1:K:661:LYS:O	2.13	0.48
1:P:767:GLN:CG	1:P:768:MET:N	2.76	0.48
1:I:284:GLY:CA	1:L:422:PRO:HG3	2.44	0.48
1:I:43:ARG:NH2	1:I:264:GLU:OE2	2.46	0.48
1:G:662:PRO:O	1:G:663:LEU:HD23	2.13	0.48
1:I:682:LEU:HB3	1:I:683:PRO:CD	2.39	0.48
1:M:506:VAL:HG21	1:M:551:LYS:HB3	1.95	0.48
1:H:18:ASN:O	1:H:21:VAL:O	2.32	0.48
1:P:486:TYR:CE2	1:P:488:GLY:HA3	2.49	0.48
1:M:645:ARG:HB2	1:M:645:ARG:HH11	1.79	0.48
1:H:787:ALA:HB3	1:H:934:GLU:N	2.28	0.48
1:H:579:ASP:CG	1:H:583:ASN:HB2	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:858:ILE:CD1	1:P:864:MET:HG3	2.43	0.48
1:N:84:VAL:HG12	1:N:85:VAL:N	2.28	0.48
1:F:946:TYR:CE2	1:F:982:THR:HG21	2.49	0.48
1:N:447:ASP:HB3	1:N:450:HIS:HD2	1.78	0.48
1:D:102:ASN:HD22	1:D:201:ASP:CB	2.25	0.48
1:O:148:SER:HB3	1:O:190:ARG:O	2.13	0.48
1:F:395:HIS:CG	1:F:396:PRO:HD2	2.48	0.48
1:E:391:HIS:HA	1:E:412:GLU:OE2	2.13	0.48
1:M:962:TYR:HD2	1:M:966:GLN:HE22	1.60	0.48
1:M:814:GLY:O	1:M:815:HIS:C	2.51	0.48
1:L:410:VAL:HG12	1:L:410:VAL:O	2.12	0.48
1:K:869:ASP:OD1	1:K:1015:HIS:ND1	2.46	0.48
1:J:344:LEU:HD23	1:J:345:ASN:N	2.29	0.48
1:M:13:ARG:O	1:M:14:ARG:HB2	2.12	0.48
1:E:608:PHE:CD1	1:E:614:HIS:CE1	3.02	0.48
1:I:775:GLN:C	1:I:776:LEU:HD23	2.34	0.48
1:A:66:PRO:HD2	1:A:67:GLU:HG2	1.94	0.48
1:L:791:ASN:N	3:L:1233:HOH:O	2.37	0.48
1:E:750:GLU:HG3	1:E:755:ARG:HG2	1.96	0.48
1:J:785:THR:HA	3:J:1254:HOH:O	2.13	0.48
1:I:640:SER:OG	1:I:642:TYR:HB2	2.14	0.48
1:J:576:ILE:HG22	1:J:576:ILE:O	2.11	0.48
1:P:1004:SER:O	1:P:1007:PHE:N	2.37	0.48
1:D:655:MET:HG2	1:D:656:VAL:N	2.27	0.48
1:G:360:HIS:CG	1:G:361:PRO:HD2	2.48	0.48
1:E:91:GLN:OE1	1:E:91:GLN:N	2.30	0.48
1:P:114:VAL:HG11	1:P:192:SER:N	2.29	0.48
1:P:60:PHE:HE2	1:P:62:TRP:HB2	1.78	0.48
1:D:767:GLN:CG	1:D:768:MET:N	2.77	0.48
1:H:414:ASN:HB3	3:H:1267:HOH:O	2.14	0.48
1:H:536:CYS:O	1:H:566:PHE:HB2	2.14	0.48
1:L:79:PRO:CG	1:L:80:GLU:HG2	2.39	0.48
1:L:322:LEU:CD2	1:L:324:GLU:N	2.77	0.48
1:N:744:GLU:HA	1:N:760:ARG:NH1	2.29	0.48
1:B:373:VAL:CG1	1:B:377:LEU:HD11	2.44	0.48
1:B:645:ARG:NH2	1:B:650:GLU:OE2	2.47	0.48
1:P:661:LYS:O	1:P:663:LEU:HG	2.14	0.48
1:P:85:VAL:O	1:P:88:SER:HB3	2.13	0.48
1:B:775:GLN:HE21	1:B:775:GLN:CA	2.26	0.48
1:H:786:ARG:HD2	1:H:934:GLU:HG2	1.95	0.48
1:E:301:TRP:HD1	1:E:307:ASN:O	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:738:PRO:HB2	1:H:834:VAL:HG23	1.94	0.48
1:E:118:ASN:O	1:E:119:PRO:C	2.49	0.48
1:K:271:THR:O	1:K:272:ALA:HB2	2.14	0.48
1:I:155:ASN:ND2	1:I:182:ASN:OD1	2.33	0.48
1:J:698:VAL:HG22	1:J:720:TRP:CZ3	2.47	0.48
1:M:425:ARG:NH2	1:P:287:ASP:OD1	2.45	0.48
1:C:73:TRP:CE2	1:C:122:CYS:HB3	2.49	0.48
1:L:851:ILE:HG22	1:L:851:ILE:O	2.14	0.48
1:F:572:ASP:OD2	1:F:608:PHE:HA	2.14	0.48
1:O:127:PHE:CE1	1:O:184:LEU:HD12	2.49	0.48
1:O:372:MET:O	1:O:373:VAL:C	2.51	0.48
1:I:780:LEU:HA	1:I:886:CYS:HB3	1.95	0.48
1:P:785:THR:HB	3:P:1250:HOH:O	2.13	0.48
1:J:878:HIS:HA	1:J:879:PRO:HD3	1.74	0.48
1:H:529:GLU:OE2	1:H:531:ARG:HB2	2.13	0.48
1:H:256:VAL:O	1:H:271:THR:HA	2.13	0.48
1:P:338:GLU:HG2	3:P:1259:HOH:O	2.14	0.48
1:E:515:VAL:HG21	1:H:281:GLU:CD	2.33	0.48
1:C:821:ALA:O	1:C:840:HIS:HA	2.14	0.48
1:F:429:ASP:OD1	1:F:430:PRO:HD2	2.14	0.48
1:J:926:TYR:O	1:J:928:PRO:HD3	2.14	0.48
1:F:441:THR:O	1:F:445:GLN:HG3	2.12	0.48
1:M:78:LEU:HB3	1:M:79:PRO:CD	2.39	0.48
1:P:161:TYR:O	1:P:171:PHE:HZ	1.95	0.48
1:M:500:CYS:HA	1:M:534:ILE:O	2.14	0.48
1:M:100:TYR:HB2	1:M:203:TRP:CE3	2.49	0.48
1:P:957:PHE:CD1	1:P:958:ASN:N	2.82	0.48
1:P:354:VAL:CG2	1:P:570:TRP:HB2	2.41	0.48
1:P:225:PHE:CD2	1:P:313:VAL:HG21	2.48	0.48
1:M:23:GLN:CB	1:M:26:ARG:HH21	2.10	0.48
1:L:89:ASN:ND2	1:L:205:MET:HB3	2.29	0.48
1:L:89:ASN:HD22	1:L:205:MET:HB3	1.78	0.48
1:B:778:THR:OG1	1:B:887:GLN:HB3	2.14	0.48
1:L:433:LEU:HD12	1:L:433:LEU:C	2.34	0.48
1:P:127:PHE:O	1:P:182:ASN:HB2	2.13	0.48
1:O:763:GLY:HA3	1:O:822:LEU:HD22	1.96	0.48
1:M:890:GLN:HG3	1:M:891:VAL:N	2.23	0.48
1:M:308:LEU:HD13	1:M:329:ASP:HB3	1.96	0.48
1:H:910:LEU:C	1:H:910:LEU:HD12	2.34	0.48
1:I:285:TYR:CB	1:I:288:ARG:HB2	2.44	0.48
1:O:210:ARG:HH12	1:O:394:ASN:C	2.16	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:209:PHE:H	1:J:209:PHE:HD1	1.57	0.48
1:M:904:GLU:HG2	1:M:904:GLU:O	2.13	0.48
1:H:558:GLN:HB3	1:H:559:TYR:CD1	2.49	0.48
1:C:424:ASN:HD22	1:C:424:ASN:HA	1.31	0.48
1:P:738:PRO:CA	1:P:751:LEU:HD12	2.43	0.48
1:E:387:VAL:HG22	1:E:388:ARG:N	2.29	0.48
1:J:7:LEU:N	1:J:71:GLU:OE2	2.47	0.48
1:G:308:LEU:HD13	1:G:329:ASP:HB2	1.95	0.48
1:E:486:TYR:CZ	1:E:488:GLY:HA3	2.48	0.48
1:L:856:TYR:HB3	1:L:864:MET:HE2	1.94	0.48
1:N:694:LEU:O	1:N:722:LEU:N	2.47	0.48
1:L:810:TRP:HH2	1:L:991:MET:HE2	1.78	0.48
1:G:14:ARG:HG2	1:G:16:TRP:CZ2	2.49	0.48
1:E:742:THR:HG23	1:E:760:ARG:NH1	2.29	0.48
1:O:854:LYS:HG3	3:O:1216:HOH:O	2.14	0.48
1:I:446:ARG:HE	1:I:447:ASP:CG	2.16	0.48
1:J:352:ARG:NE	1:J:626:PHE:CE1	2.81	0.48
1:E:1003:VAL:N	3:E:1240:HOH:O	2.36	0.48
1:C:139:THR:O	1:C:139:THR:HG22	2.14	0.48
1:I:533:LEU:HD12	1:I:534:ILE:N	2.29	0.48
1:H:694:LEU:HD12	1:H:694:LEU:HA	1.64	0.48
1:I:191:TRP:O	1:I:192:SER:HB3	2.12	0.48
1:G:154:CYS:O	1:G:156:GLY:N	2.47	0.48
1:G:357:HIS:HD2	1:G:392:TYR:OH	1.97	0.48
1:M:437:SER:O	1:M:441:THR:OG1	2.29	0.48
1:H:30:HIS:HB2	1:H:31:PRO:CD	2.43	0.48
1:P:743:SER:O	1:P:760:ARG:NH1	2.44	0.48
1:M:653:HIS:CD2	1:M:667:GLU:HG2	2.49	0.48
1:B:433:LEU:N	1:B:434:PRO:HD2	2.28	0.48
1:F:427:THR:HA	1:F:436:MET:HE2	1.93	0.48
1:D:894:ARG:CZ	1:D:921:PRO:HD3	2.42	0.48
1:K:601:PHE:CZ	1:K:795:VAL:HG12	2.47	0.48
1:K:656:VAL:HG21	1:K:685:LEU:HD23	1.95	0.48
1:G:83:THR:HG22	1:G:84:VAL:N	2.28	0.48
1:G:22:THR:OG1	1:G:438:GLU:OE1	2.30	0.48
1:N:658:LEU:O	1:N:661:LYS:N	2.32	0.48
1:H:786:ARG:HG2	1:H:880:ALA:CB	2.43	0.48
1:O:132:SER:HA	1:O:135:GLN:CD	2.34	0.48
1:C:251:ARG:HB3	1:C:253:TYR:CE1	2.48	0.48
1:J:210:ARG:NH1	1:J:395:HIS:N	2.62	0.48
1:J:395:HIS:CG	1:J:396:PRO:HD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:856:TYR:N	1:A:856:TYR:CD1	2.82	0.48
1:O:738:PRO:CB	1:O:751:LEU:HD12	2.44	0.48
1:I:38:ASN:HD22	1:I:41:GLU:HG3	1.77	0.48
1:L:743:SER:HB3	1:L:746:ASP:OD1	2.14	0.48
1:N:783:GLN:NE2	1:N:985:ASN:OD1	2.40	0.48
1:N:426:LEU:HD22	1:N:432:TRP:CE2	2.48	0.48
1:D:782:ASP:HB2	1:D:842:TRP:CH2	2.48	0.48
1:D:509:ASP:O	1:D:511:PRO:HD3	2.13	0.48
1:A:844:HIS:ND1	1:A:845:GLN:HG3	2.29	0.48
1:A:968:MET:O	1:A:968:MET:HG3	2.14	0.48
1:B:80:GLU:H	1:B:80:GLU:HG3	1.29	0.48
1:D:127:PHE:CD1	1:D:127:PHE:N	2.82	0.48
1:F:109:VAL:HG12	1:F:109:VAL:O	2.12	0.48
1:G:655:MET:O	1:G:655:MET:HG2	2.12	0.48
1:M:357:HIS:HE1	1:M:568:TRP:HH2	1.60	0.48
1:L:278:ILE:CD1	1:L:278:ILE:H	2.04	0.48
1:L:278:ILE:HG23	1:L:283:GLY:HA2	1.96	0.48
1:O:544:ASN:HB2	1:O:929:TYR:CE2	2.49	0.48
1:H:321:THR:O	1:H:323:ILE:HD12	2.14	0.48
1:I:92:MET:HE2	1:I:362:LEU:O	2.14	0.48
1:G:360:HIS:ND1	1:G:362:LEU:HB2	2.27	0.48
1:D:767:GLN:OE1	1:D:768:MET:O	2.32	0.48
1:M:173:LEU:HD23	1:M:173:LEU:HA	1.72	0.48
1:H:391:HIS:CD2	1:H:460:ASN:ND2	2.82	0.48
1:G:822:LEU:HD12	1:G:824:GLN:H	1.79	0.48
1:O:410:VAL:HG22	1:O:455:ILE:HB	1.96	0.48
1:F:835:LEU:O	1:F:836:ILE:HD13	2.13	0.48
1:J:881:ARG:HD3	1:J:881:ARG:HH11	1.45	0.48
1:M:236:SER:HB2	1:M:237:ARG:HD3	1.94	0.48
1:K:120:THR:HG23	1:K:189:LEU:CD2	2.44	0.48
1:O:653:HIS:ND1	1:O:701:VAL:HG21	2.29	0.48
1:H:18:ASN:HD22	1:H:21:VAL:HG23	1.79	0.48
1:H:456:TRP:HZ2	1:H:482:ARG:NH1	2.11	0.48
1:E:844:HIS:O	1:E:845:GLN:C	2.52	0.48
1:O:133:TRP:C	1:O:134:LEU:HD23	2.35	0.48
1:I:719:GLN:OE1	1:I:915:PHE:N	2.39	0.48
1:N:118:ASN:O	1:N:119:PRO:C	2.50	0.48
1:L:810:TRP:O	1:L:813:ALA:HB3	2.14	0.48
1:B:155:ASN:ND2	1:B:182:ASN:OD1	2.37	0.48
1:F:100:TYR:O	1:F:597:ASN:HA	2.13	0.48
1:L:18:ASN:O	1:L:21:VAL:O	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:662:PRO:C	1:N:663:LEU:HD23	2.34	0.48
1:N:457:SER:HA	1:N:485:GLN:O	2.14	0.48
1:D:536:CYS:O	1:D:537:GLU:HG3	2.13	0.48
1:M:343:LEU:HD23	1:M:348:PRO:HA	1.96	0.48
1:L:188:VAL:HG12	1:L:189:LEU:N	2.29	0.48
1:J:547:GLY:HA2	1:J:908:ASP:O	2.14	0.48
1:N:796:SER:OG	1:N:808:GLU:HG3	2.14	0.48
1:P:93:HIS:HB3	1:P:95:TYR:HE1	1.78	0.48
1:M:553:TRP:HB3	1:M:557:ARG:HH12	1.78	0.48
1:F:101:THR:HG22	1:F:598:ASP:OD2	2.14	0.48
1:F:934:GLU:HG3	1:F:935:ASN:N	2.27	0.48
1:B:205:MET:O	1:B:206:SER:HB3	2.14	0.48
1:N:564:GLY:N	3:N:1220:HOH:O	2.43	0.48
1:M:782:ASP:HB2	1:M:842:TRP:CZ2	2.48	0.48
1:N:9:VAL:O	1:N:12:GLN:HB3	2.13	0.48
1:C:326:GLU:HA	1:C:326:GLU:OE1	2.14	0.48
1:B:84:VAL:CG1	1:B:85:VAL:N	2.77	0.48
1:H:745:MET:CE	1:H:761:GLN:NE2	2.77	0.47
1:E:161:TYR:CG	1:E:162:GLY:N	2.82	0.47
1:P:547:GLY:N	1:P:994:GLY:O	2.46	0.47
1:M:572:ASP:OD1	1:M:607:VAL:O	2.32	0.47
1:B:668:VAL:HG12	1:B:669:PRO:HD2	1.95	0.47
1:H:110:ASN:ND2	1:H:113:PHE:CD2	2.80	0.47
1:H:567:VAL:HG12	1:H:568:TRP:N	2.28	0.47
1:E:361:PRO:HA	1:E:574:SER:O	2.13	0.47
1:E:651:LEU:HD12	1:E:652:LEU:H	1.79	0.47
1:K:18:ASN:ND2	1:K:21:VAL:HG23	2.28	0.47
1:C:7:LEU:HB2	1:C:71:GLU:OE2	2.13	0.47
1:A:937:LEU:HG	1:A:938:ARG:N	2.29	0.47
1:K:531:ARG:O	1:K:561:ARG:NH1	2.29	0.47
1:I:579:ASP:O	1:I:582:GLY:N	2.47	0.47
1:O:578:TYR:HA	1:O:583:ASN:O	2.13	0.47
1:L:485:GLN:O	1:L:486:TYR:HB2	2.14	0.47
1:P:451:PRO:O	1:P:452:SER:C	2.53	0.47
1:H:786:ARG:HD3	1:H:990:HIS:HE1	1.78	0.47
1:F:218:PRO:HD2	1:F:324:GLU:OE1	2.14	0.47
1:C:145:GLY:HA3	1:C:210:ARG:HG3	1.96	0.47
1:I:425:ARG:HH22	1:L:287:ASP:CG	2.17	0.47
1:L:246:MET:HE2	1:L:287:ASP:CB	2.43	0.47
1:H:52:ARG:N	1:H:214:LEU:O	2.43	0.47
1:N:120:THR:HG22	1:N:121:GLY:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:820:ALA:HB2	1:G:842:TRP:NE1	2.29	0.47
1:O:587:ALA:HB1	1:O:591:ASP:HB3	1.96	0.47
1:I:377:LEU:HD23	1:I:377:LEU:HA	1.51	0.47
1:H:331:GLY:HA2	3:H:1212:HOH:O	2.14	0.47
1:G:814:GLY:O	1:G:817:GLN:N	2.32	0.47
1:N:892:ALA:HB3	1:N:946:TYR:CE1	2.49	0.47
1:I:447:ASP:HA	3:I:1203:HOH:O	2.14	0.47
1:O:403:ASP:OD2	1:O:450:HIS:ND1	2.39	0.47
1:A:432:TRP:O	1:A:435:ALA:HB3	2.14	0.47
1:D:734:SER:CB	1:D:860:GLY:HA3	2.44	0.47
1:K:63:PHE:HB3	1:K:64:PRO:HD2	1.96	0.47
1:H:267:VAL:O	1:H:268:ALA:HB2	2.14	0.47
1:E:527:PRO:HA	3:E:1256:HOH:O	2.13	0.47
1:B:825:CYS:HA	1:B:837:THR:O	2.14	0.47
1:A:738:PRO:N	1:A:751:LEU:HD12	2.28	0.47
1:C:810:TRP:HH2	1:C:991:MET:CE	2.27	0.47
1:F:402:CYS:HB3	1:F:407:LEU:HB2	1.95	0.47
1:J:277:GLU:HG3	1:J:277:GLU:H	1.29	0.47
1:N:877:PRO:O	1:N:878:HIS:C	2.49	0.47
1:C:465:GLY:O	1:C:468:HIS:HB2	2.14	0.47
1:M:6:SER:O	1:M:9:VAL:N	2.48	0.47
1:P:220:THR:O	1:P:323:ILE:HG21	2.14	0.47
1:P:967:LEU:HD23	1:P:967:LEU:HA	1.28	0.47
1:K:317:THR:HG23	1:K:323:ILE:HD11	1.96	0.47
1:E:70:PRO:O	1:E:73:TRP:HB3	2.14	0.47
1:B:433:LEU:HD13	1:B:467:ASN:HB3	1.97	0.47
1:H:161:TYR:CG	1:H:162:GLY:N	2.82	0.47
1:C:227:VAL:HG12	1:C:228:ALA:N	2.29	0.47
1:H:393:PRO:CD	1:H:414:ASN:HB2	2.40	0.47
1:P:1020:TRP:HD1	1:P:1021:CYS:N	2.12	0.47
1:B:48:SER:OG	1:B:50:GLN:HB2	2.14	0.47
1:E:963:SER:N	1:E:979:GLU:OE2	2.28	0.47
1:E:544:ASN:HB3	1:E:789:LEU:HD22	1.96	0.47
1:J:204:ARG:HD2	3:J:1259:HOH:O	2.14	0.47
1:I:460:ASN:HD21	1:I:461:GLU:HG3	1.79	0.47
1:P:227:VAL:HG13	1:P:228:ALA:N	2.29	0.47
1:G:954:ASP:OD2	1:H:1013:ARG:NH2	2.47	0.47
1:J:358:GLU:HB3	1:J:367:MET:CG	2.44	0.47
1:M:499:ILE:O	1:M:533:LEU:HA	2.14	0.47
1:K:706:THR:N	1:K:709:SER:O	2.34	0.47
1:A:696:LEU:O	1:A:719:GLN:HB2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:906:TYR:HB3	1:B:907:PRO:HD2	1.96	0.47
1:J:54:LEU:HD23	1:J:54:LEU:N	2.28	0.47
1:D:36:TRP:CE2	1:D:42:ALA:HA	2.50	0.47
1:E:951:TRP:HE3	1:E:951:TRP:H	1.62	0.47
1:N:807:VAL:HG13	1:N:808:GLU:N	2.28	0.47
1:B:805:ALA:O	1:B:806:TRP:C	2.50	0.47
1:H:352:ARG:HB2	1:H:385:ASN:HB2	1.96	0.47
1:E:616:ALA:O	1:E:617:LEU:C	2.51	0.47
1:L:487:GLU:O	1:L:491:ALA:N	2.47	0.47
1:M:879:PRO:O	1:M:1009:LEU:HD12	2.14	0.47
1:E:35:SER:O	1:E:36:TRP:O	2.33	0.47
1:P:377:LEU:HD23	1:P:708:TRP:CA	2.37	0.47
1:M:456:TRP:CZ2	1:M:482:ARG:HD2	2.50	0.47
1:G:138:GLN:N	1:G:217:LYS:O	2.31	0.47
1:J:822:LEU:HD12	1:J:824:GLN:H	1.78	0.47
1:P:559:TYR:HB2	1:P:562:LEU:CD1	2.34	0.47
1:E:69:VAL:HG13	1:E:70:PRO:CD	2.37	0.47
1:L:959:ILE:O	1:L:959:ILE:HG23	2.13	0.47
1:K:10:VAL:O	1:K:12:GLN:N	2.47	0.47
1:D:767:GLN:CD	1:D:768:MET:H	2.14	0.47
1:G:589:GLY:HA3	1:G:599:ARG:O	2.13	0.47
1:M:685:LEU:CB	1:M:686:PRO:HD2	2.35	0.47
1:M:102:ASN:HB2	1:M:201:ASP:OD1	2.14	0.47
1:C:599:ARG:HB2	1:C:600:GLN:H	1.45	0.47
1:H:478:VAL:HG12	1:H:478:VAL:O	2.14	0.47
1:H:928:PRO:HB2	1:H:973:ARG:NH1	2.25	0.47
1:E:581:ASN:HB2	1:E:583:ASN:HD21	1.79	0.47
1:J:437:SER:O	1:J:441:THR:HG23	2.14	0.47
1:I:274:PHE:HB3	1:I:286:ALA:O	2.15	0.47
1:J:651:LEU:N	1:J:701:VAL:O	2.41	0.47
1:D:708:TRP:CZ3	1:D:709:SER:HB3	2.48	0.47
1:N:622:HIS:O	1:N:625:GLN:HG2	2.14	0.47
1:F:83:THR:C	1:F:84:VAL:HG23	2.34	0.47
1:H:932:PRO:HG2	1:H:970:THR:O	2.14	0.47
1:E:653:HIS:HD2	1:E:667:GLU:CB	2.28	0.47
1:E:30:HIS:HB2	1:E:31:PRO:HD2	1.94	0.47
1:J:658:LEU:O	1:J:661:LYS:HD3	2.13	0.47
1:N:123:TYR:O	1:N:124:SER:HB3	2.14	0.47
1:N:696:LEU:HB2	1:N:722:LEU:HD11	1.96	0.47
1:G:347:LYS:HG3	1:G:644:PHE:HE1	1.77	0.47
1:F:423:MET:N	1:G:280:ASP:OD2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:590:GLY:N	1:P:594:ASP:OD1	2.48	0.47
1:G:817:GLN:HG2	3:G:1208:HOH:O	2.14	0.47
1:O:745:MET:SD	1:O:761:GLN:NE2	2.87	0.47
1:G:866:ILE:N	1:G:1018:LEU:O	2.41	0.47
1:P:951:TRP:HE3	1:P:951:TRP:N	2.12	0.47
1:E:515:VAL:N	1:E:516:PRO:HD3	2.29	0.47
1:N:608:PHE:HB2	1:N:612:THR:OG1	2.14	0.47
1:E:670:LEU:HD23	1:E:670:LEU:HA	1.59	0.47
1:J:391:HIS:HA	1:J:412:GLU:OE2	2.14	0.47
1:N:882:ILE:O	1:N:882:ILE:HG22	2.13	0.47
1:J:772:ASP:OD1	1:J:772:ASP:N	2.36	0.47
1:D:297:ASN:N	1:D:298:PRO:HD3	2.29	0.47
1:P:159:VAL:HG22	1:P:176:PHE:CE2	2.49	0.47
1:I:131:GLU:O	1:I:134:LEU:HB2	2.15	0.47
1:H:427:THR:HG21	1:H:468:HIS:CE1	2.49	0.47
1:P:599:ARG:HB2	1:P:600:GLN:H	1.42	0.47
1:I:789:LEU:O	1:I:790:ASP:C	2.50	0.47
1:P:197:LEU:HD23	1:P:426:LEU:HD12	1.96	0.47
1:B:38:ASN:ND2	1:B:41:GLU:HG3	2.19	0.47
1:B:43:ARG:HD2	1:B:261:TRP:CD2	2.50	0.47
1:H:140:ARG:HB2	1:H:171:PHE:O	2.15	0.47
1:K:501:PRO:HD2	1:K:533:LEU:HD11	1.95	0.47
1:H:388:ARG:NH1	1:H:536:CYS:HB2	2.29	0.47
1:H:393:PRO:HD2	1:H:414:ASN:CB	2.39	0.47
1:E:253:TYR:H	1:E:253:TYR:HD1	1.59	0.47
1:F:651:LEU:HD12	1:F:652:LEU:H	1.80	0.47
1:H:928:PRO:O	1:H:929:TYR:C	2.52	0.47
1:L:655:MET:HG3	1:L:665:SER:OG	2.15	0.47
1:E:929:TYR:O	1:E:930:VAL:C	2.52	0.47
1:H:487:GLU:O	1:H:491:ALA:N	2.45	0.47
1:H:7:LEU:HB2	1:H:71:GLU:CD	2.35	0.47
1:L:107:ILE:HG21	1:L:191:TRP:CE2	2.49	0.47
1:J:433:LEU:HB3	1:J:434:PRO:CD	2.40	0.47
1:N:706:THR:HG23	1:N:709:SER:OG	2.14	0.47
1:K:653:HIS:HA	1:K:666:GLY:O	2.13	0.47
1:K:929:TYR:O	1:K:930:VAL:C	2.48	0.47
1:D:246:MET:HE3	1:D:247:CYS:N	2.29	0.47
1:J:657:ALA:HA	1:J:661:LYS:O	2.13	0.47
1:D:444:VAL:O	1:D:448:ARG:HG2	2.14	0.47
1:H:210:ARG:HH11	1:H:395:HIS:CA	2.27	0.47
1:K:916:ASP:H	1:K:918:TRP:HE1	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:836:ILE:CD1	1:I:836:ILE:N	2.77	0.47
1:L:896:ASN:HA	1:L:918:TRP:O	2.14	0.47
1:G:433:LEU:N	1:G:434:PRO:HD2	2.30	0.47
1:H:768:MET:HG2	1:H:775:GLN:HB2	1.96	0.47
1:P:962:TYR:HD2	1:P:966:GLN:HE22	1.61	0.47
1:N:576:ILE:HG22	1:N:577:LYS:N	2.29	0.47
1:I:966:GLN:OE1	1:I:976:LEU:HA	2.14	0.47
1:H:655:MET:HB3	1:H:655:MET:HE3	1.71	0.47
1:D:493:THR:HG23	3:D:1209:HOH:O	2.13	0.47
1:O:816:TYR:HB2	3:O:1209:HOH:O	2.13	0.47
1:I:645:ARG:NH2	1:I:650:GLU:OE1	2.46	0.47
1:G:337:ILE:HG21	1:G:337:ILE:HD13	1.56	0.47
1:I:127:PHE:N	1:I:127:PHE:CD1	2.81	0.47
1:K:731:PRO:O	1:K:732:ALA:C	2.53	0.47
1:F:856:TYR:CD2	1:F:864:MET:CE	2.98	0.47
1:M:218:PRO:HD2	1:M:324:GLU:OE2	2.14	0.47
1:M:205:MET:O	1:M:206:SER:HB3	2.15	0.47
1:M:797:GLU:O	1:M:800:ARG:O	2.32	0.47
1:M:568:TRP:NE1	1:M:569:ASP:OD2	2.48	0.47
1:E:147:ASN:HA	1:E:148:SER:HA	1.67	0.47
1:K:67:GLU:H	1:K:67:GLU:HG2	1.09	0.47
1:D:894:ARG:HH22	1:D:921:PRO:HD3	1.77	0.47
1:B:782:ASP:OD2	1:B:854:LYS:NZ	2.40	0.47
1:P:79:PRO:HG2	1:P:80:GLU:CG	2.43	0.47
1:G:663:LEU:CD1	1:G:688:PRO:HG3	2.44	0.47
1:F:921:PRO:O	1:F:923:SER:N	2.47	0.47
1:I:246:MET:HG2	1:I:274:PHE:CZ	2.49	0.47
1:O:651:LEU:HA	1:O:651:LEU:HD13	1.59	0.47
1:L:782:ASP:OD1	1:L:842:TRP:HH2	1.98	0.47
1:G:322:LEU:C	1:G:322:LEU:HD23	2.34	0.47
1:O:146:VAL:HG12	1:O:188:VAL:CG1	2.44	0.47
1:K:210:ARG:NH1	1:K:395:HIS:N	2.63	0.47
1:B:260:LEU:C	1:B:267:VAL:HG23	2.33	0.47
1:J:742:THR:HG23	1:J:747:PHE:HD1	1.76	0.47
1:B:698:VAL:HG22	1:B:718:GLN:C	2.35	0.47
1:G:66:PRO:HD2	1:G:67:GLU:HG2	1.95	0.47
1:N:686:PRO:C	1:N:688:PRO:HD3	2.34	0.47
1:K:388:ARG:NE	1:K:412:GLU:OE2	2.46	0.47
1:I:46:ARG:HB3	1:I:47:PRO:HD2	1.96	0.47
1:N:367:MET:HE2	1:N:372:MET:CG	2.45	0.47
1:K:644:PHE:O	1:K:674:PRO:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:618:THR:HG22	1:I:912:ALA:HB1	1.96	0.47
1:G:616:ALA:O	1:G:617:LEU:C	2.52	0.47
1:B:559:TYR:CD1	1:B:559:TYR:N	2.80	0.47
1:D:30:HIS:ND1	1:D:33:PHE:CE2	2.82	0.47
1:H:764:PHE:CE1	1:H:840:HIS:CE1	3.03	0.47
1:C:810:TRP:CH2	1:C:991:MET:CE	2.98	0.47
1:E:569:ASP:O	1:E:605:GLY:HA2	2.15	0.47
1:A:825:CYS:HA	1:A:837:THR:O	2.15	0.47
1:F:399:TYR:CE2	1:F:446:ARG:NH2	2.82	0.47
1:K:961:ARG:HB3	1:K:961:ARG:HE	1.38	0.47
1:I:626:PHE:O	1:I:641:GLU:HB2	2.14	0.47
1:F:967:LEU:HA	1:F:967:LEU:HD23	1.58	0.47
1:K:908:ASP:HB3	1:K:1007:PHE:CD2	2.50	0.47
1:P:51:LEU:HD12	1:P:52:ARG:N	2.30	0.47
1:B:101:THR:HG21	1:B:104:THR:O	2.14	0.47
1:M:65:ALA:HB1	1:M:66:PRO:HD2	1.96	0.47
1:M:7:LEU:HA	1:M:10:VAL:HG23	1.95	0.47
1:P:315:LEU:O	1:P:323:ILE:HB	2.14	0.47
1:P:932:PRO:HG2	1:P:970:THR:HB	1.97	0.47
1:P:696:LEU:HD12	1:P:696:LEU:C	2.31	0.47
1:M:164:ASP:HA	1:M:439:ARG:HH12	1.80	0.47
1:K:436:MET:CE	1:K:467:ASN:HD22	2.27	0.47
1:E:91:GLN:HB3	1:E:98:PRO:HD3	1.95	0.47
1:E:66:PRO:CB	1:E:187:MET:HE1	2.45	0.47
1:L:668:VAL:HG12	1:L:669:PRO:N	2.30	0.47
1:L:36:TRP:CD2	1:L:42:ALA:CA	2.98	0.47
1:H:570:TRP:HD1	1:H:571:VAL:CG2	2.24	0.47
1:H:90:TRP:O	1:H:93:HIS:HB2	2.14	0.47
1:K:14:ARG:NH1	1:K:16:TRP:CZ2	2.81	0.47
1:L:926:TYR:O	1:L:928:PRO:HD3	2.13	0.47
1:A:467:ASN:OD1	1:A:467:ASN:N	2.46	0.47
1:D:719:GLN:HE22	1:D:914:CYS:HB2	1.79	0.47
1:C:91:GLN:HE21	1:C:190:ARG:NH1	2.12	0.47
1:B:856:TYR:CD2	1:B:864:MET:CE	2.97	0.47
1:G:743:SER:OG	1:G:744:GLU:N	2.46	0.47
1:J:473:ARG:HA	1:J:473:ARG:HD2	1.40	0.47
1:C:168:PRO:O	1:C:442:ARG:NH2	2.43	0.47
1:J:658:LEU:O	1:J:659:ASP:C	2.51	0.47
1:I:502:MET:HE2	1:I:537:GLU:CD	2.35	0.47
1:C:147:ASN:HA	1:C:148:SER:HA	1.66	0.47
1:K:608:PHE:CD2	1:K:614:HIS:CE1	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1020:TRP:CD1	1:G:1021:CYS:N	2.79	0.47
1:G:625:GLN:HB2	1:G:716:ALA:HB2	1.95	0.47
1:M:775:GLN:C	1:M:776:LEU:HD23	2.33	0.47
1:I:870:VAL:CG1	1:I:871:GLU:N	2.78	0.47
1:F:972:HIS:O	1:F:973:ARG:C	2.52	0.47
1:N:577:LYS:O	1:N:584:PRO:HA	2.14	0.47
1:M:689:GLU:O	1:M:690:SER:O	2.32	0.47
1:E:608:PHE:O	1:E:611:ARG:N	2.28	0.47
1:G:173:LEU:O	1:G:176:PHE:N	2.46	0.47
1:A:823:LEU:HB2	1:A:839:ALA:O	2.14	0.47
1:F:797:GLU:N	1:F:800:ARG:O	2.40	0.47
1:A:349:LEU:HD13	1:A:351:ILE:HD11	1.97	0.47
1:O:972:HIS:HB3	1:O:974:HIS:ND1	2.29	0.47
1:D:942:ARG:HA	1:D:953:GLY:O	2.14	0.47
1:O:13:ARG:HG3	1:O:13:ARG:H	1.37	0.47
1:N:473:ARG:HA	1:N:473:ARG:HD3	1.53	0.47
1:D:260:LEU:HB3	1:D:267:VAL:HG12	1.96	0.47
1:A:970:THR:CG2	1:A:975:LEU:HB2	2.45	0.47
1:I:316:HIS:HA	1:I:323:ILE:CD1	2.17	0.47
1:M:61:ALA:HB3	1:M:122:CYS:HB2	1.96	0.47
1:E:141:ILE:HD12	1:E:143:PHE:CE1	2.49	0.47
1:P:139:THR:CG2	1:P:177:LEU:HD12	2.44	0.47
1:P:34:ALA:CB	1:P:36:TRP:CE3	2.98	0.47
1:H:718:GLN:CG	1:H:719:GLN:H	2.20	0.47
1:M:98:PRO:C	1:M:99:ILE:HD12	2.35	0.47
1:P:904:GLU:HG2	1:P:909:ARG:HH22	1.80	0.47
1:P:606:LEU:HD13	1:P:617:LEU:CD1	2.43	0.47
1:P:201:ASP:O	1:P:202:MET:HB3	2.14	0.47
1:M:195:SER:O	1:M:197:LEU:N	2.47	0.47
1:M:456:TRP:CZ2	1:M:482:ARG:NH1	2.79	0.47
1:M:166:ARG:HA	1:M:166:ARG:HD2	1.41	0.47
1:H:36:TRP:CE3	1:H:42:ALA:HB2	2.50	0.47
1:K:433:LEU:O	1:K:437:SER:HB3	2.15	0.47
1:D:13:ARG:O	1:D:14:ARG:HB2	2.15	0.47
1:L:208:ILE:O	1:L:208:ILE:HG22	2.13	0.47
1:E:91:GLN:HE21	1:E:190:ARG:HH21	1.63	0.47
1:E:598:ASP:O	1:E:601:PHE:HB2	2.15	0.47
1:H:989:PHE:CE1	1:H:1014:TYR:HD2	2.32	0.47
1:D:142:ILE:HG23	1:D:170:GLU:CG	2.36	0.47
1:K:261:TRP:CA	1:K:267:VAL:HG23	2.35	0.47
1:L:74:LEU:HD22	1:L:153:TRP:CD1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:655:MET:SD	1:K:662:PRO:HB3	2.55	0.47
1:L:227:VAL:HG23	1:L:449:ASN:CG	2.35	0.47
1:L:134:LEU:HD11	1:L:177:LEU:HB2	1.96	0.47
1:E:274:PHE:CD2	1:E:288:ARG:N	2.83	0.47
1:M:971:SER:HG	1:M:972:HIS:CE1	2.33	0.47
1:L:317:THR:O	1:L:320:GLY:N	2.40	0.47
1:F:167:LEU:CD2	1:F:168:PRO:HD2	2.45	0.47
1:G:685:LEU:CB	1:G:686:PRO:HD2	2.37	0.47
1:L:654:TRP:CE2	1:L:682:LEU:HD22	2.49	0.47
1:M:232:ASN:OD1	1:M:237:ARG:O	2.33	0.47
1:E:395:HIS:HA	1:E:396:PRO:HD3	1.75	0.47
1:M:548:GLY:O	1:M:549:PHE:C	2.51	0.47
1:B:856:TYR:CE2	1:B:866:ILE:HD13	2.50	0.47
1:B:856:TYR:HD2	1:B:866:ILE:HD13	1.75	0.47
1:E:383:ASN:ND2	1:E:625:GLN:HA	2.30	0.47
1:H:599:ARG:NH2	1:H:796:SER:O	2.47	0.47
1:A:6:SER:O	1:A:9:VAL:N	2.48	0.47
1:P:331:GLY:HA3	1:P:451:PRO:CB	2.45	0.47
1:M:662:PRO:C	1:M:663:LEU:HD23	2.35	0.47
1:A:322:LEU:HD21	1:A:324:GLU:O	2.15	0.47
1:A:322:LEU:CD2	1:A:324:GLU:N	2.78	0.47
1:C:66:PRO:HB3	1:C:187:MET:HE3	1.96	0.47
1:M:734:SER:HB3	1:M:860:GLY:HA3	1.96	0.47
1:A:833:ALA:HB2	1:A:859:ASP:HA	1.97	0.47
1:L:499:ILE:O	1:L:533:LEU:HA	2.15	0.47
1:O:146:VAL:HG12	1:O:188:VAL:HG13	1.97	0.47
1:G:668:VAL:HG12	1:G:669:PRO:O	2.14	0.47
1:G:668:VAL:HG13	1:G:669:PRO:CD	2.43	0.47
1:N:579:ASP:O	1:N:582:GLY:N	2.38	0.47
1:O:24:LEU:HA	1:O:24:LEU:HD12	1.63	0.47
1:O:131:GLU:HB2	1:O:135:GLN:NE2	2.30	0.47
1:K:941:THR:O	1:K:954:ASP:HA	2.13	0.47
1:F:747:PHE:CZ	1:F:760:ARG:NE	2.83	0.47
1:N:152:LEU:HG	1:N:153:TRP:N	2.30	0.47
1:I:824:GLN:HG3	1:I:825:CYS:N	2.30	0.47
1:D:217:LYS:NZ	1:D:324:GLU:OE1	2.36	0.47
1:D:234:ASP:O	1:D:236:SER:N	2.47	0.47
1:G:658:LEU:O	1:G:660:GLY:N	2.48	0.47
1:A:745:MET:CE	1:A:761:GLN:HE22	2.28	0.47
1:E:225:PHE:C	1:E:226:HIS:HD2	2.17	0.47
1:L:902:PRO:HD3	1:L:918:TRP:CH2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:767:GLN:CG	1:O:768:MET:N	2.78	0.47
1:B:129:VAL:HG23	1:B:182:ASN:ND2	2.30	0.47
1:N:255:ARG:HD2	1:N:273:PRO:HA	1.97	0.47
1:O:737:ILE:HG13	1:O:738:PRO:N	2.28	0.47
1:D:424:ASN:HB2	3:D:1232:HOH:O	2.14	0.47
1:M:315:LEU:O	1:M:323:ILE:HB	2.13	0.47
1:N:479:ASP:HA	1:N:480:PRO:HD2	1.70	0.47
1:G:572:ASP:HB2	3:G:1290:HOH:O	2.15	0.47
1:B:857:ARG:O	1:B:857:ARG:HG2	2.14	0.47
1:O:36:TRP:CG	1:O:42:ALA:HB2	2.49	0.47
1:H:106:PRO:HD3	1:H:204:ARG:NH1	2.30	0.47
1:K:870:VAL:CG1	1:K:871:GLU:N	2.78	0.47
1:G:616:ALA:O	1:G:618:THR:N	2.48	0.47
1:F:608:PHE:O	1:F:610:ASP:N	2.48	0.47
1:B:282:ARG:HD3	1:C:420:MET:O	2.14	0.47
1:E:856:TYR:CD2	1:E:864:MET:HE3	2.50	0.47
1:E:588:TYR:O	1:E:589:GLY:C	2.50	0.47
1:H:510:GLN:HA	1:H:511:PRO:HD2	1.70	0.47
1:E:944:LEU:O	1:E:951:TRP:HE3	1.97	0.47
1:A:487:GLU:O	1:A:491:ALA:N	2.47	0.47
1:E:102:ASN:ND2	1:E:201:ASP:HB2	2.29	0.47
1:I:533:LEU:HD12	1:I:533:LEU:C	2.35	0.47
1:O:413:ALA:O	1:O:415:ILE:N	2.46	0.47
1:I:910:LEU:HD12	1:I:910:LEU:C	2.35	0.47
1:N:67:GLU:HG2	1:N:67:GLU:H	1.34	0.47
1:P:305:ILE:O	1:P:305:ILE:HG22	2.14	0.47
1:O:844:HIS:O	1:O:845:GLN:C	2.52	0.47
1:G:509:ASP:O	1:G:511:PRO:HD3	2.14	0.47
1:K:350:LEU:HD21	1:K:553:TRP:HZ3	1.77	0.47
1:D:866:ILE:N	1:D:1018:LEU:O	2.39	0.47
1:D:1018:LEU:HD23	1:D:1018:LEU:HA	1.67	0.47
1:K:111:PRO:HA	1:K:112:PRO:HA	1.63	0.47
1:M:295:VAL:HG21	1:M:332:PHE:CZ	2.49	0.47
1:N:867:THR:HG22	1:N:867:THR:O	2.14	0.47
1:G:513:PRO:O	1:G:514:ALA:HB3	2.15	0.47
1:K:138:GLN:N	1:K:217:LYS:O	2.31	0.47
1:P:901:GLY:HA3	1:P:918:TRP:CD1	2.49	0.47
1:M:433:LEU:HD12	1:M:433:LEU:C	2.35	0.47
1:E:100:TYR:HB2	1:E:203:TRP:CZ3	2.49	0.47
1:H:895:VAL:HG12	1:H:896:ASN:N	2.29	0.47
1:M:706:THR:O	1:M:708:TRP:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:946:TYR:HE2	1:M:982:THR:HG21	1.72	0.47
1:P:650:GLU:HB3	1:P:670:LEU:HB3	1.96	0.47
1:E:92:MET:HE2	1:E:362:LEU:O	2.15	0.47
1:J:100:TYR:HB2	1:J:203:TRP:CE3	2.50	0.47
1:G:210:ARG:NH1	1:G:395:HIS:CA	2.78	0.47
1:H:227:VAL:HG23	1:H:449:ASN:OD1	2.15	0.47
1:H:433:LEU:HD12	1:H:433:LEU:C	2.33	0.47
1:N:658:LEU:C	1:N:658:LEU:HD12	2.31	0.47
1:K:289:VAL:HG22	1:K:291:LEU:HD11	1.96	0.47
1:E:1005:ALA:O	1:E:1007:PHE:N	2.47	0.47
1:L:768:MET:HG3	1:L:769:TRP:N	2.28	0.47
1:A:204:ARG:HH11	1:A:204:ARG:HG3	1.80	0.47
1:N:73:TRP:CH2	1:N:185:ALA:HB1	2.49	0.47
1:N:594:ASP:OD1	1:N:594:ASP:N	2.44	0.47
1:L:476:LYS:HD2	1:L:476:LYS:HA	1.67	0.47
1:H:375:ASP:O	1:H:376:ILE:C	2.50	0.47
1:F:719:GLN:HE22	1:F:914:CYS:HB2	1.78	0.47
1:M:630:ARG:HD3	1:M:637:GLU:OE2	2.15	0.47
1:N:367:MET:HE2	1:N:367:MET:HB3	1.75	0.47
1:G:865:ALA:HA	1:G:1019:VAL:HG22	1.96	0.47
1:J:764:PHE:CE1	1:J:840:HIS:CE1	3.02	0.47
1:N:343:LEU:HD23	1:N:348:PRO:CA	2.44	0.47
1:N:719:GLN:N	3:N:1250:HOH:O	2.46	0.47
1:I:832:ASP:O	1:I:833:ALA:HB2	2.15	0.47
1:N:1004:SER:N	3:N:1274:HOH:O	2.22	0.47
1:C:208:ILE:O	1:C:208:ILE:HG22	2.13	0.47
1:C:209:PHE:H	1:C:209:PHE:HD1	1.62	0.47
1:D:753:ASN:N	1:D:753:ASN:OD1	2.44	0.47
1:K:867:THR:O	1:K:867:THR:HG22	2.14	0.47
1:F:513:PRO:O	1:F:514:ALA:HB3	2.14	0.47
1:D:111:PRO:HG3	1:D:196:TYR:CE1	2.50	0.47
1:M:3:ILE:HG23	1:M:4:THR:N	2.30	0.47
1:P:6:SER:CB	1:P:9:VAL:HG23	2.44	0.47
1:E:442:ARG:HD3	3:E:1252:HOH:O	2.15	0.47
1:E:465:GLY:N	1:E:468:HIS:ND1	2.41	0.47
1:P:159:VAL:HG11	1:P:173:LEU:HD21	1.96	0.47
1:M:205:MET:HE3	1:M:365:GLN:CG	2.30	0.47
1:M:540:HIS:CE1	1:M:998:SER:HB2	2.50	0.47
1:P:908:ASP:O	1:P:909:ARG:HB2	2.14	0.47
1:P:99:ILE:HG22	1:P:100:TYR:N	2.30	0.47
1:P:386:ALA:CA	1:P:407:LEU:HD22	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:475:ILE:O	1:M:479:ASP:N	2.32	0.47
1:M:282:ARG:HG3	1:P:423:MET:CG	2.45	0.47
1:E:356:ARG:NH1	1:E:356:ARG:HG2	2.15	0.47
1:K:767:GLN:CG	1:K:768:MET:N	2.78	0.47
1:M:892:ALA:HB3	1:M:946:TYR:CE1	2.50	0.47
1:L:440:VAL:O	1:L:444:VAL:HG23	2.15	0.47
1:K:492:ASP:HB3	1:K:499:ILE:HG23	1.96	0.47
1:N:287:ASP:O	1:N:288:ARG:HG3	2.14	0.47
1:H:387:VAL:HG22	1:H:388:ARG:N	2.29	0.47
1:K:232:ASN:CG	1:K:237:ARG:H	2.18	0.47
1:K:262:GLN:NE2	1:K:299:LYS:CD	2.78	0.47
1:D:210:ARG:HH12	1:D:395:HIS:N	2.10	0.47
1:J:187:MET:HG2	1:J:187:MET:O	2.14	0.47
1:L:134:LEU:HD11	1:L:177:LEU:CB	2.44	0.47
1:D:164:ASP:HA	1:D:439:ARG:HH12	1.80	0.47
1:L:103:VAL:O	1:L:199:ASP:OD2	2.32	0.47
1:H:904:GLU:HG3	1:H:906:TYR:HE1	1.80	0.47
1:E:4:THR:HG21	1:H:12:GLN:CG	2.41	0.47
1:M:678:GLN:C	1:M:679:LEU:HD23	2.36	0.47
1:E:433:LEU:HD22	1:E:467:ASN:CG	2.35	0.47
1:I:246:MET:CG	1:I:274:PHE:CE2	2.98	0.47
1:P:37:ARG:HH21	1:P:218:PRO:HD3	1.79	0.47
1:B:304:GLU:C	1:B:305:ILE:HG13	2.35	0.47
1:L:352:ARG:CZ	1:L:626:PHE:CE1	2.97	0.47
1:P:308:LEU:HA	1:P:308:LEU:HD23	1.71	0.47
1:O:1018:LEU:HA	1:O:1018:LEU:HD23	1.70	0.47
1:M:906:TYR:OH	1:M:934:GLU:OE2	2.29	0.47
1:D:416:GLU:OE2	1:D:418:HIS:HB2	2.15	0.47
1:O:192:SER:O	1:O:193:ASP:C	2.50	0.47
1:G:54:LEU:HB2	1:G:212:VAL:HG12	1.97	0.47
1:D:237:ARG:HH11	1:D:237:ARG:CG	2.27	0.47
1:L:814:GLY:CA	1:L:844:HIS:CD2	2.97	0.47
1:F:433:LEU:N	1:F:434:PRO:CD	2.78	0.47
1:G:433:LEU:C	1:G:433:LEU:HD12	2.34	0.47
1:H:549:PHE:O	1:H:551:LYS:N	2.47	0.47
1:O:740:LEU:HD11	1:O:747:PHE:HB3	1.97	0.47
1:C:420:MET:HE3	1:C:420:MET:HA	1.95	0.47
1:G:102:ASN:HA	1:G:201:ASP:OD1	2.15	0.47
1:B:103:VAL:HG12	1:B:104:THR:N	2.27	0.47
1:I:910:LEU:O	1:I:913:ALA:HB3	2.15	0.47
1:F:197:LEU:HD22	1:F:415:ILE:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:900:LEU:HA	1:K:914:CYS:O	2.14	0.47
1:I:510:GLN:NE2	3:I:1247:HOH:O	2.47	0.47
1:J:892:ALA:HB3	1:J:946:TYR:CE1	2.50	0.47
1:F:227:VAL:HG13	1:F:240:LEU:CD1	2.44	0.47
1:H:278:ILE:HD12	1:H:278:ILE:N	2.29	0.47
1:I:304:GLU:C	1:I:305:ILE:HG13	2.35	0.47
1:E:164:ASP:CB	1:E:439:ARG:NH1	2.78	0.47
1:P:257:THR:OG1	1:P:316:HIS:HE1	1.98	0.47
1:B:743:SER:OG	1:B:744:GLU:N	2.47	0.47
1:P:786:ARG:HH11	1:P:990:HIS:HE1	1.62	0.47
1:P:376:ILE:CD1	1:P:398:TRP:CZ3	2.98	0.47
1:P:625:GLN:CB	1:P:716:ALA:HB2	2.45	0.47
1:M:448:ARG:HA	1:M:482:ARG:HH12	1.80	0.47
1:H:33:PHE:HB3	1:H:326:GLU:OE2	2.15	0.47
1:O:7:LEU:O	1:O:8:ALA:C	2.53	0.47
1:L:60:PHE:HE1	1:L:123:TYR:CE1	2.33	0.47
1:I:240:LEU:HD12	1:I:241:GLU:H	1.79	0.47
1:E:114:VAL:CG2	1:E:191:TRP:HB3	2.44	0.47
1:E:84:VAL:HG13	1:E:93:HIS:CE1	2.50	0.47
1:K:71:GLU:O	1:K:72:SER:C	2.53	0.47
1:G:597:ASN:HD22	1:G:599:ARG:N	2.07	0.47
1:L:36:TRP:CB	1:L:42:ALA:HB2	2.44	0.47
1:K:663:LEU:HD12	1:K:688:PRO:HG3	1.96	0.47
1:E:587:ALA:HB1	1:E:591:ASP:HB2	1.96	0.47
1:K:935:ASN:O	1:K:937:LEU:N	2.48	0.47
1:K:834:VAL:HG12	1:K:835:LEU:N	2.29	0.47
1:G:579:ASP:O	1:G:581:ASN:N	2.47	0.47
1:E:372:MET:HE1	1:E:395:HIS:HB3	1.97	0.47
1:N:377:LEU:HD23	1:N:708:TRP:CA	2.45	0.47
1:M:902:PRO:O	1:M:938:ARG:NH1	2.48	0.47
1:F:579:ASP:O	1:F:581:ASN:N	2.48	0.47
1:K:625:GLN:HB2	1:K:716:ALA:HB2	1.97	0.47
1:E:258:VAL:O	1:E:269:SER:HA	2.14	0.47
1:L:413:ALA:HA	1:L:443:MET:HE2	1.97	0.47
1:G:250:LEU:C	1:G:251:ARG:HG2	2.34	0.47
1:E:289:VAL:CG2	1:E:290:THR:N	2.78	0.47
1:H:301:TRP:HD1	1:H:307:ASN:O	1.98	0.47
1:H:173:LEU:HA	1:H:173:LEU:HD23	1.66	0.47
1:L:390:SER:CB	1:L:391:HIS:CE1	2.97	0.47
1:M:84:VAL:CG1	1:M:85:VAL:N	2.78	0.47
1:I:876:THR:O	1:I:877:PRO:C	2.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:ARG:NH1	1:A:16:TRP:CZ2	2.83	0.47
1:H:479:ASP:OD1	1:H:481:SER:OG	2.26	0.47
1:I:109:VAL:HG22	1:I:196:TYR:CE2	2.50	0.47
1:B:360:HIS:CG	1:B:361:PRO:HD2	2.50	0.47
1:G:1018:LEU:HA	1:G:1018:LEU:HD23	1.18	0.47
1:B:927:THR:CG2	1:B:929:TYR:CE2	2.98	0.47
1:N:751:LEU:HD21	1:N:860:GLY:O	2.15	0.47
1:H:260:LEU:O	1:H:267:VAL:HB	2.15	0.47
1:O:844:HIS:CE1	1:O:845:GLN:HG3	2.49	0.47
1:A:806:TRP:CZ3	1:A:809:ARG:NH2	2.83	0.47
1:J:218:PRO:O	1:J:221:GLN:HB3	2.15	0.47
1:C:198:GLU:OE2	1:C:414:ASN:ND2	2.48	0.47
1:B:632:SER:O	1:B:634:GLN:N	2.48	0.47
1:I:321:THR:HG22	1:I:321:THR:O	2.14	0.47
1:D:951:TRP:HE3	1:D:951:TRP:H	1.61	0.47
1:D:447:ASP:HA	3:D:1208:HOH:O	2.14	0.47
1:O:209:PHE:HD1	1:O:209:PHE:H	1.62	0.47
1:D:652:LEU:HD11	1:D:698:VAL:HB	1.97	0.47
1:K:618:THR:HG22	1:K:912:ALA:HB1	1.96	0.47
1:K:821:ALA:O	1:K:840:HIS:HA	2.15	0.47
1:M:80:GLU:HG3	1:M:80:GLU:H	1.28	0.46
1:P:260:LEU:HB2	1:P:268:ALA:HB3	1.96	0.46
1:P:567:VAL:O	1:P:569:ASP:HA	2.14	0.46
1:K:436:MET:O	1:K:439:ARG:N	2.48	0.46
1:M:603:MET:HE1	1:M:930:VAL:HG11	1.97	0.46
1:I:84:VAL:CG1	1:I:85:VAL:N	2.78	0.46
1:L:36:TRP:CD1	1:L:42:ALA:N	2.83	0.46
1:A:131:GLU:O	1:A:132:SER:C	2.51	0.46
1:L:217:LYS:NZ	1:L:324:GLU:OE2	2.43	0.46
1:C:43:ARG:HD2	1:C:261:TRP:CD2	2.50	0.46
1:A:279:ILE:HD11	1:D:422:PRO:CG	2.44	0.46
1:E:127:PHE:HE1	1:E:184:LEU:HG	1.79	0.46
1:O:60:PHE:CB	1:O:84:VAL:HG21	2.42	0.46
1:L:955:PHE:HB2	1:L:987:ASP:O	2.15	0.46
1:B:246:MET:HG2	1:B:274:PHE:CE1	2.50	0.46
1:N:257:THR:HB	1:N:314:GLU:HG3	1.97	0.46
1:K:391:HIS:CD2	1:K:460:ASN:HD22	2.32	0.46
1:F:166:ARG:HD2	1:F:166:ARG:HA	1.62	0.46
1:M:333:ARG:NH1	1:M:453:VAL:O	2.47	0.46
1:N:679:LEU:HD23	1:N:679:LEU:N	2.21	0.46
1:F:210:ARG:NH1	1:F:395:HIS:CA	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:422:PRO:HB3	1:H:279:ILE:HD13	1.96	0.46
1:F:767:GLN:NE2	1:F:774:LYS:HG2	2.30	0.46
1:C:740:LEU:HD12	1:C:749:ILE:CD1	2.45	0.46
1:G:433:LEU:O	1:G:433:LEU:HD12	2.15	0.46
1:J:55:ASN:ND2	1:J:211:ASP:HB3	2.29	0.46
1:F:91:GLN:NE2	1:F:190:ARG:CZ	2.78	0.46
1:D:473:ARG:HD3	1:D:473:ARG:C	2.36	0.46
1:F:147:ASN:HB2	1:F:209:PHE:HE1	1.80	0.46
1:A:525:SER:O	1:A:526:LEU:C	2.52	0.46
1:H:163:GLN:OE1	1:H:193:ASP:OD2	2.33	0.46
1:I:158:TRP:CZ2	1:I:160:GLY:HA2	2.50	0.46
1:B:21:VAL:CG1	1:B:24:LEU:HD11	2.45	0.46
1:D:506:VAL:HG23	3:D:1276:HOH:O	2.14	0.46
1:O:538:TYR:O	1:O:539:ALA:HB3	2.15	0.46
1:C:369:GLU:O	1:C:370:GLN:C	2.53	0.46
1:M:7:LEU:N	1:M:71:GLU:OE2	2.49	0.46
1:P:141:ILE:HD11	1:P:212:VAL:HG12	1.97	0.46
1:P:568:TRP:HA	1:P:569:ASP:HA	1.60	0.46
1:P:569:ASP:HB2	3:P:1278:HOH:O	2.15	0.46
1:M:165:SER:O	1:M:166:ARG:HD2	2.16	0.46
1:M:413:ALA:O	1:M:415:ILE:N	2.48	0.46
1:M:426:LEU:HD23	1:M:426:LEU:N	2.29	0.46
1:M:456:TRP:NE1	1:M:482:ARG:HB2	2.30	0.46
1:M:282:ARG:HD3	1:P:418:HIS:O	2.15	0.46
1:P:261:TRP:CZ3	1:P:266:GLN:CA	2.98	0.46
1:G:78:LEU:HB3	1:G:79:PRO:CD	2.36	0.46
1:M:730:LEU:HD21	1:N:823:LEU:HB3	1.97	0.46
1:H:454:ILE:O	1:H:455:ILE:HG13	2.15	0.46
1:G:167:LEU:HB3	1:G:168:PRO:CD	2.44	0.46
1:O:63:PHE:O	1:O:119:PRO:HA	2.15	0.46
1:N:210:ARG:HH12	1:N:395:HIS:N	2.14	0.46
1:P:430:PRO:O	1:P:434:PRO:HD3	2.15	0.46
1:C:830:LEU:N	1:C:830:LEU:CD1	2.78	0.46
1:E:767:GLN:CG	1:E:768:MET:N	2.78	0.46
1:C:685:LEU:HD22	1:C:686:PRO:CD	2.41	0.46
1:F:134:LEU:CD1	1:F:179:ALA:HA	2.46	0.46
1:E:653:HIS:CD2	1:E:667:GLU:HG2	2.49	0.46
1:C:249:GLU:CG	1:C:251:ARG:HH22	2.28	0.46
1:E:30:HIS:ND1	1:E:33:PHE:CD2	2.83	0.46
1:M:333:ARG:HD3	1:M:451:PRO:CB	2.46	0.46
1:N:1020:TRP:CD1	1:N:1021:CYS:N	2.82	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:678:GLN:C	1:N:679:LEU:HD23	2.36	0.46
1:G:147:ASN:HA	1:G:148:SER:HA	1.46	0.46
1:F:737:ILE:HB	1:F:738:PRO:HD2	1.97	0.46
1:P:30:HIS:HB2	1:P:31:PRO:CD	2.44	0.46
1:A:826:THR:O	1:A:836:ILE:HA	2.14	0.46
1:G:382:ASN:OD1	1:G:617:LEU:HG	2.14	0.46
1:G:460:ASN:ND2	1:G:461:GLU:CG	2.79	0.46
1:G:879:PRO:O	1:G:1009:LEU:HD12	2.15	0.46
1:O:788:PRO:O	1:O:933:SER:HB2	2.16	0.46
1:G:444:VAL:O	1:G:448:ARG:HG2	2.15	0.46
1:O:258:VAL:HA	1:O:312:VAL:O	2.15	0.46
1:I:621:LYS:HE2	1:I:717:TRP:HZ3	1.80	0.46
1:B:568:TRP:CD2	1:B:569:ASP:HB3	2.50	0.46
1:I:559:TYR:N	1:I:559:TYR:CD1	2.83	0.46
1:D:176:PHE:CD1	1:D:176:PHE:N	2.82	0.46
1:I:753:ASN:OD1	1:I:753:ASN:N	2.32	0.46
1:F:344:LEU:C	1:F:344:LEU:HD23	2.36	0.46
1:I:80:GLU:H	1:I:80:GLU:HG3	1.07	0.46
1:C:824:GLN:O	1:C:838:THR:HA	2.15	0.46
1:J:735:HIS:O	1:J:736:ALA:HB2	2.16	0.46
1:J:18:ASN:N	1:J:193:ASP:OD2	2.42	0.46
1:M:11:LEU:N	1:M:11:LEU:CD2	2.79	0.46
1:B:742:THR:CG2	1:B:743:SER:N	2.78	0.46
1:M:190:ARG:HG2	1:M:206:SER:HB3	1.97	0.46
1:M:456:TRP:HB2	1:M:484:VAL:HG22	1.97	0.46
1:E:147:ASN:HB2	1:E:209:PHE:CE2	2.34	0.46
1:E:60:PHE:HB3	1:E:84:VAL:CG2	2.45	0.46
1:A:249:GLU:OE1	1:A:251:ARG:NH1	2.49	0.46
1:B:11:LEU:HD22	1:B:187:MET:HE1	1.96	0.46
1:G:762:SER:OG	1:G:763:GLY:N	2.48	0.46
1:P:121:GLY:O	1:P:123:TYR:HD1	1.98	0.46
1:P:91:GLN:HB3	1:P:98:PRO:CD	2.39	0.46
1:H:205:MET:HE1	1:H:364:GLY:HA2	1.97	0.46
1:H:610:ASP:O	1:H:611:ARG:HB2	2.16	0.46
1:G:906:TYR:CD1	1:G:906:TYR:N	2.82	0.46
1:C:37:ARG:NH1	1:C:37:ARG:CG	2.78	0.46
1:E:928:PRO:O	1:E:973:ARG:HD2	2.14	0.46
1:M:908:ASP:O	1:M:909:ARG:HB3	2.16	0.46
1:D:928:PRO:O	1:D:929:TYR:C	2.52	0.46
1:J:579:ASP:OD1	1:J:583:ASN:N	2.47	0.46
1:E:807:VAL:CG1	1:E:808:GLU:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:842:TRP:CZ3	1:O:852:SER:HB2	2.49	0.46
1:M:352:ARG:CZ	1:M:626:PHE:CE1	2.98	0.46
1:E:768:MET:SD	1:E:1022:GLN:NE2	2.89	0.46
1:N:77:ASP:C	1:N:78:LEU:HD23	2.35	0.46
1:O:360:HIS:O	1:O:364:GLY:N	2.41	0.46
1:N:857:ARG:NH1	1:N:857:ARG:HG2	2.27	0.46
1:L:533:LEU:HD12	1:L:533:LEU:C	2.36	0.46
1:F:424:ASN:HB3	1:G:285:TYR:OH	2.15	0.46
1:A:129:VAL:HG23	1:A:182:ASN:ND2	2.30	0.46
1:A:79:PRO:CD	1:A:80:GLU:H	2.28	0.46
1:A:534:ILE:HD11	1:A:563:GLN:HB2	1.97	0.46
1:H:141:ILE:HG13	1:H:213:SER:O	2.15	0.46
1:O:524:LEU:HD11	1:O:562:LEU:HD23	1.97	0.46
1:L:810:TRP:CZ2	1:L:991:MET:CE	2.99	0.46
1:N:310:ARG:CG	1:N:311:ALA:N	2.78	0.46
1:K:894:ARG:HH22	1:K:921:PRO:HD3	1.79	0.46
1:E:501:PRO:HB3	1:E:523:TRP:CZ3	2.49	0.46
1:B:454:ILE:HG13	1:B:455:ILE:HG13	1.98	0.46
1:E:105:TYR:HA	1:E:106:PRO:HD3	1.80	0.46
1:C:767:GLN:CG	1:C:768:MET:N	2.79	0.46
1:P:523:TRP:HB3	1:P:533:LEU:HD23	1.96	0.46
1:G:987:ASP:OD2	1:G:990:HIS:HD2	1.99	0.46
1:B:612:THR:HB	1:B:613:PRO:HD2	1.97	0.46
1:O:339:ASN:O	1:P:527:PRO:HB3	2.15	0.46
1:M:464:HIS:HB2	1:M:489:GLY:HA3	1.97	0.46
1:H:782:ASP:HB2	1:H:842:TRP:CZ2	2.50	0.46
1:H:769:TRP:HA	1:H:773:LYS:O	2.15	0.46
1:P:684:GLU:HG2	1:P:685:LEU:N	2.29	0.46
1:A:202:MET:CE	1:A:357:HIS:CD2	2.98	0.46
1:P:382:ASN:ND2	1:P:382:ASN:N	2.63	0.46
1:L:91:GLN:HG3	1:L:96:ASP:OD1	2.16	0.46
1:E:90:TRP:HE1	1:E:96:ASP:CG	2.19	0.46
1:E:91:GLN:HE22	1:E:206:SER:N	2.13	0.46
1:I:86:VAL:HA	1:I:87:PRO:C	2.36	0.46
1:E:69:VAL:CG1	1:E:70:PRO:HD2	2.38	0.46
1:L:802:ASP:C	1:L:804:ASN:H	2.18	0.46
1:I:652:LEU:HD11	1:I:698:VAL:HB	1.97	0.46
1:A:746:ASP:HA	1:A:760:ARG:HG3	1.98	0.46
1:E:129:VAL:CG2	1:E:182:ASN:ND2	2.78	0.46
1:K:701:VAL:HG22	1:K:714:ILE:CD1	2.45	0.46
1:N:902:PRO:HD3	1:N:918:TRP:CZ2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:518:TRP:HD1	1:M:523:TRP:CE2	2.34	0.46
1:G:668:VAL:CG1	1:G:669:PRO:HD2	2.45	0.46
1:D:750:GLU:HG3	1:D:755:ARG:CG	2.44	0.46
1:L:670:LEU:HA	1:L:670:LEU:HD23	1.64	0.46
1:F:316:HIS:HB2	1:F:321:THR:O	2.15	0.46
1:O:786:ARG:HA	1:O:881:ARG:HH21	1.79	0.46
1:A:682:LEU:HD23	1:A:682:LEU:HA	1.70	0.46
1:M:943:GLU:OE2	1:M:945:ASN:ND2	2.47	0.46
1:L:897:TRP:CE2	1:L:918:TRP:HB2	2.51	0.46
1:F:433:LEU:N	1:F:434:PRO:HD2	2.31	0.46
1:H:767:GLN:HG3	1:H:768:MET:N	2.29	0.46
1:C:223:SER:O	1:C:224:ASP:HB2	2.14	0.46
1:I:757:GLN:O	1:I:765:LEU:HD12	2.15	0.46
1:C:770:ILE:CD1	1:C:1022:GLN:HG2	2.45	0.46
1:L:446:ARG:NE	1:L:447:ASP:OD1	2.40	0.46
1:L:503:TYR:CZ	1:L:537:GLU:HB3	2.50	0.46
1:A:740:LEU:HD12	1:A:741:THR:H	1.80	0.46
1:I:905:ASN:HB2	1:I:910:LEU:HB3	1.97	0.46
1:N:513:PRO:O	1:N:514:ALA:HB3	2.15	0.46
1:A:996:ASP:HB2	1:A:1002:SER:HB2	1.97	0.46
1:G:868:VAL:HB	1:G:1016:TYR:CE1	2.51	0.46
1:C:892:ALA:HB3	1:C:946:TYR:CE1	2.51	0.46
1:O:610:ASP:OD1	1:O:612:THR:HG23	2.16	0.46
1:O:254:LEU:O	1:O:255:ARG:HD2	2.16	0.46
1:L:356:ARG:O	1:L:356:ARG:HG2	2.15	0.46
1:C:473:ARG:HD3	1:C:473:ARG:HA	1.30	0.46
1:G:961:ARG:NH2	1:G:979:GLU:O	2.42	0.46
1:I:323:ILE:HD12	1:I:323:ILE:N	2.29	0.46
1:F:7:LEU:CD1	1:F:74:LEU:HD21	2.45	0.46
1:E:23:GLN:O	1:E:24:LEU:HD13	2.16	0.46
1:K:36:TRP:CG	1:K:42:ALA:HB2	2.51	0.46
1:P:110:ASN:O	1:P:196:TYR:OH	2.33	0.46
1:P:787:ALA:HB3	1:P:934:GLU:H	1.79	0.46
1:G:202:MET:CE	1:G:357:HIS:CD2	2.97	0.46
1:I:210:ARG:HH12	1:I:394:ASN:C	2.18	0.46
1:P:397:LEU:HA	1:P:397:LEU:HD13	1.58	0.46
1:M:1022:GLN:HB3	1:M:1023:LYS:H	1.46	0.46
1:P:822:LEU:HD11	1:P:824:GLN:H	1.81	0.46
1:D:823:LEU:HB2	1:D:839:ALA:O	2.15	0.46
1:O:359:HIS:CD2	1:O:573:GLN:HA	2.51	0.46
1:L:668:VAL:CG1	1:L:669:PRO:N	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1022:GLN:O	1:L:1023:LYS:HG3	2.16	0.46
1:D:920:LEU:CB	1:D:921:PRO:HD2	2.43	0.46
1:H:154:CYS:N	1:H:157:ARG:O	2.31	0.46
1:O:660:GLY:O	1:O:662:PRO:HD3	2.16	0.46
1:O:694:LEU:HA	1:O:694:LEU:HD12	1.16	0.46
1:H:614:HIS:HB3	3:H:1287:HOH:O	2.14	0.46
1:M:395:HIS:CE1	1:M:397:LEU:HB2	2.50	0.46
1:I:91:GLN:HE21	1:I:190:ARG:NH2	2.14	0.46
1:P:229:THR:HG21	1:P:332:PHE:CD2	2.51	0.46
1:L:784:PHE:CD2	1:L:850:PHE:CD2	3.04	0.46
1:N:54:LEU:O	1:N:58:TRP:NE1	2.38	0.46
1:P:476:LYS:HD2	1:P:476:LYS:HA	1.64	0.46
1:M:492:ASP:O	1:M:531:ARG:NH2	2.40	0.46
1:H:881:ARG:HD3	1:H:987:ASP:OD1	2.15	0.46
1:L:598:ASP:O	1:L:599:ARG:C	2.54	0.46
1:F:222:ILE:HD13	1:F:313:VAL:HG12	1.98	0.46
1:D:897:TRP:CE2	1:D:918:TRP:HB2	2.49	0.46
1:I:271:THR:O	1:I:272:ALA:HB2	2.16	0.46
1:G:36:TRP:CD1	1:G:41:GLU:HB3	2.51	0.46
1:L:611:ARG:HD2	1:L:611:ARG:N	2.30	0.46
1:K:909:ARG:O	1:K:909:ARG:HG2	2.15	0.46
1:F:766:SER:HA	1:F:779:PRO:HB3	1.96	0.46
1:A:767:GLN:CG	1:A:768:MET:N	2.78	0.46
1:H:767:GLN:OE1	1:H:768:MET:O	2.34	0.46
1:H:123:TYR:O	1:H:124:SER:HB3	2.16	0.46
1:O:658:LEU:O	1:O:661:LYS:HD3	2.14	0.46
1:M:815:HIS:HE1	1:M:877:PRO:O	1.98	0.46
1:O:854:LYS:NZ	3:O:1216:HOH:O	2.43	0.46
1:M:937:LEU:HD11	1:M:956:GLN:HB2	1.97	0.46
1:F:416:GLU:HA	1:F:460:ASN:O	2.16	0.46
1:J:854:LYS:HA	1:J:867:THR:O	2.15	0.46
1:A:66:PRO:HG2	1:A:67:GLU:OE2	2.14	0.46
1:D:66:PRO:CB	1:D:187:MET:HE1	2.45	0.46
1:E:856:TYR:CD2	1:E:864:MET:CE	2.99	0.46
1:E:588:TYR:C	1:E:589:GLY:O	2.54	0.46
1:E:315:LEU:O	1:E:315:LEU:HG	2.15	0.46
1:M:553:TRP:HB3	1:M:557:ARG:NH1	2.30	0.46
1:N:1004:SER:O	1:N:1005:ALA:C	2.53	0.46
1:L:818:ALA:HB1	1:L:843:GLN:O	2.16	0.46
1:A:377:LEU:HD22	1:A:708:TRP:HA	1.97	0.46
1:N:546:LEU:HD23	1:N:549:PHE:CG	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:513:PRO:O	1:J:514:ALA:HB3	2.16	0.46
1:G:847:LYS:HG3	1:G:848:THR:N	2.31	0.46
1:C:842:TRP:C	1:C:843:GLN:HG2	2.36	0.46
1:G:891:VAL:O	1:G:891:VAL:HG12	2.16	0.46
1:P:140:ARG:HA	1:P:171:PHE:O	2.16	0.46
1:P:39:SER:OG	1:P:40:GLU:N	2.48	0.46
1:P:100:TYR:CB	1:P:203:TRP:CZ3	2.97	0.46
1:F:377:LEU:HD22	1:F:708:TRP:CA	2.32	0.46
1:I:571:VAL:HG11	1:I:611:ARG:CZ	2.45	0.46
1:I:571:VAL:HG11	1:I:611:ARG:NH1	2.31	0.46
1:G:79:PRO:CG	1:G:80:GLU:H	2.28	0.46
1:A:40:GLU:CG	1:A:43:ARG:NH1	2.79	0.46
1:J:594:ASP:O	1:J:597:ASN:HB3	2.16	0.46
1:O:515:VAL:N	1:O:516:PRO:HD3	2.30	0.46
1:L:654:TRP:O	1:L:655:MET:HB2	2.16	0.46
1:K:368:ASP:OD1	1:K:370:GLN:HB2	2.15	0.46
1:I:217:LYS:HZ3	1:I:324:GLU:CD	2.18	0.46
1:A:433:LEU:N	1:A:434:PRO:CD	2.78	0.46
1:I:583:ASN:HA	1:I:584:PRO:HD3	1.89	0.46
1:A:283:GLY:O	1:D:422:PRO:HB3	2.16	0.46
1:M:933:SER:O	1:M:935:ASN:ND2	2.46	0.46
1:E:258:VAL:HG12	1:E:258:VAL:O	2.15	0.46
1:B:202:MET:CE	1:B:357:HIS:CD2	2.99	0.46
1:N:253:TYR:CD1	1:N:317:THR:HG22	2.50	0.46
1:E:289:VAL:CG2	1:E:291:LEU:HD11	2.45	0.46
1:K:390:SER:CA	1:K:391:HIS:ND1	2.78	0.46
1:C:881:ARG:HH11	1:C:987:ASP:CG	2.18	0.46
1:M:333:ARG:HH11	1:M:451:PRO:C	2.19	0.46
1:E:531:ARG:HB3	1:E:532:PRO:HD2	1.98	0.46
1:A:73:TRP:O	1:A:183:ARG:NH2	2.48	0.46
1:C:409:VAL:CG1	1:C:410:VAL:N	2.77	0.46
1:N:759:ASN:OD1	1:N:761:GLN:HG3	2.15	0.46
1:F:843:GLN:HG2	1:F:848:THR:CA	2.45	0.46
1:N:358:GLU:HB3	1:N:367:MET:SD	2.55	0.46
1:F:99:ILE:CG2	1:F:100:TYR:N	2.79	0.46
1:F:272:ALA:HB1	1:F:273:PRO:CD	2.45	0.46
1:A:856:TYR:CD2	1:A:864:MET:HE1	2.51	0.46
1:A:103:VAL:HG13	1:A:418:HIS:CD2	2.51	0.46
1:N:576:ILE:CG2	1:N:577:LYS:N	2.79	0.46
1:H:900:LEU:HB2	1:H:939:CYS:O	2.16	0.46
1:E:352:ARG:CZ	1:E:626:PHE:CE1	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:352:ARG:H	1:F:385:ASN:HB2	1.81	0.46
1:B:473:ARG:HD2	1:C:469:ASP:HB3	1.97	0.46
1:A:844:HIS:O	1:A:845:GLN:C	2.53	0.46
1:I:352:ARG:NE	1:I:626:PHE:CE1	2.84	0.46
1:D:951:TRP:CE3	1:D:951:TRP:N	2.84	0.46
1:P:490:GLY:O	1:P:491:ALA:HB3	2.15	0.46
1:I:807:VAL:CG1	1:I:808:GLU:N	2.78	0.46
1:I:149:ALA:O	1:I:150:PHE:HB3	2.16	0.46
1:F:474:TRP:O	1:F:477:SER:HB2	2.16	0.46
1:C:5:ASP:OD2	1:C:157:ARG:HA	2.16	0.46
1:A:821:ALA:O	1:A:840:HIS:HA	2.15	0.46
1:G:1003:VAL:HA	3:G:1274:HOH:O	2.15	0.46
1:O:352:ARG:HG2	1:O:553:TRP:CH2	2.51	0.46
1:M:674:PRO:O	1:M:675:GLN:HB2	2.15	0.46
1:C:30:HIS:ND1	1:C:31:PRO:O	2.37	0.46
1:E:995:GLY:N	1:E:1002:SER:OG	2.35	0.46
1:O:290:THR:HG22	1:O:290:THR:O	2.16	0.46
1:B:694:LEU:HD12	1:B:694:LEU:HA	1.63	0.46
1:I:968:MET:O	1:I:968:MET:HG3	2.16	0.46
1:E:24:LEU:HB2	1:E:161:TYR:HB3	1.98	0.46
1:M:202:MET:CB	1:M:573:GLN:HE22	2.29	0.46
1:P:203:TRP:CZ2	1:P:575:LEU:HD11	2.51	0.46
1:M:354:VAL:CG2	1:M:355:ASN:N	2.78	0.46
1:I:147:ASN:HB2	1:I:209:PHE:CE2	2.47	0.46
1:E:115:PRO:CG	1:E:191:TRP:CD1	2.98	0.46
1:E:599:ARG:HH22	1:E:795:VAL:HA	1.80	0.46
1:H:742:THR:HG22	1:H:743:SER:O	2.16	0.46
1:I:433:LEU:O	1:I:433:LEU:HD12	2.15	0.46
1:H:27:LEU:CD1	1:H:140:ARG:NH1	2.79	0.46
1:M:126:THR:HA	1:M:183:ARG:HA	1.97	0.46
1:K:658:LEU:C	1:K:658:LEU:HD12	2.34	0.46
1:E:380:LYS:HB3	1:E:708:TRP:CE3	2.50	0.46
1:I:948:PRO:O	1:I:1023:LYS:HE3	2.15	0.46
1:L:127:PHE:CE1	1:L:184:LEU:CG	2.99	0.46
1:K:857:ARG:CG	1:K:857:ARG:HH11	2.19	0.46
1:L:222:ILE:HD11	1:L:315:LEU:HB2	1.97	0.46
1:E:434:PRO:HD2	3:E:1210:HOH:O	2.16	0.46
1:L:66:PRO:HA	1:L:120:THR:HG21	1.97	0.46
1:N:210:ARG:NH1	1:N:395:HIS:CA	2.79	0.46
1:P:433:LEU:N	1:P:434:PRO:CD	2.78	0.46
1:B:316:HIS:HA	1:B:323:ILE:CD1	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:786:ARG:NH2	1:F:991:MET:CE	2.79	0.46
1:L:881:ARG:HD3	1:L:987:ASP:CG	2.36	0.46
1:P:1013:ARG:HH11	1:P:1013:ARG:CG	2.24	0.46
1:O:595:THR:HG23	1:O:596:PRO:CA	2.44	0.46
1:N:315:LEU:O	1:N:323:ILE:HB	2.16	0.46
1:B:718:GLN:CG	1:B:720:TRP:CZ2	2.99	0.46
1:J:656:VAL:CG1	1:J:657:ALA:N	2.79	0.46
1:C:916:ASP:OD1	1:C:917:ARG:N	2.40	0.46
1:A:509:ASP:C	1:A:511:PRO:HD3	2.36	0.46
1:I:897:TRP:CH2	1:I:918:TRP:CB	2.99	0.46
1:N:775:GLN:N	1:N:775:GLN:NE2	2.64	0.46
1:B:749:ILE:HD12	1:B:749:ILE:N	2.31	0.46
1:E:390:SER:CA	1:E:391:HIS:ND1	2.79	0.46
1:G:152:LEU:HD23	1:G:159:VAL:HB	1.97	0.46
1:F:906:TYR:CD1	1:F:906:TYR:N	2.81	0.46
1:H:418:HIS:HD2	1:H:418:HIS:O	1.99	0.46
1:D:870:VAL:CG1	1:D:871:GLU:N	2.79	0.46
1:F:53:SER:C	1:F:54:LEU:HD23	2.35	0.46
1:D:23:GLN:HB3	1:D:26:ARG:NH2	2.31	0.46
1:O:740:LEU:HD12	1:O:749:ILE:HD12	1.96	0.46
1:C:719:GLN:N	3:C:1247:HOH:O	2.44	0.46
1:I:966:GLN:NE2	1:I:977:HIS:O	2.43	0.46
1:O:897:TRP:CZ2	1:O:918:TRP:HB2	2.51	0.46
1:G:612:THR:HA	1:G:613:PRO:HD3	1.52	0.46
1:N:249:GLU:HG2	1:N:251:ARG:HH21	1.79	0.46
1:E:572:ASP:HB3	1:E:603:MET:HG2	1.98	0.46
1:E:472:TYR:HD1	1:E:484:VAL:HG11	1.81	0.46
1:L:741:THR:HG22	1:L:741:THR:O	2.13	0.46
1:K:403:ASP:OD2	1:K:450:HIS:ND1	2.43	0.46
1:M:1012:GLY:O	1:M:1013:ARG:HG3	2.15	0.46
1:B:479:ASP:OD1	1:B:481:SER:OG	2.29	0.46
1:D:807:VAL:CG1	1:D:808:GLU:N	2.78	0.46
1:O:959:ILE:O	1:O:959:ILE:HG23	2.15	0.46
1:H:11:LEU:HD23	1:H:11:LEU:N	2.31	0.46
1:D:353:GLY:O	1:D:566:PHE:HA	2.15	0.46
1:J:422:PRO:HG2	1:K:279:ILE:HD11	1.98	0.46
1:C:945:ASN:OD1	1:C:950:GLN:NE2	2.46	0.46
1:M:187:MET:HE2	1:M:189:LEU:HD21	1.97	0.46
1:M:189:LEU:N	1:M:189:LEU:CD2	2.79	0.46
1:M:143:PHE:CD2	1:M:212:VAL:CG2	2.98	0.46
1:P:322:LEU:CD2	1:P:324:GLU:N	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:223:SER:O	1:M:224:ASP:HB2	2.16	0.46
1:P:994:GLY:N	1:P:1003:VAL:HG22	2.31	0.46
1:M:433:LEU:N	1:M:434:PRO:CD	2.78	0.46
1:E:85:VAL:HG13	1:E:86:VAL:N	2.31	0.46
1:P:115:PRO:CG	1:P:191:TRP:CD1	2.98	0.46
1:M:608:PHE:HB2	1:M:612:THR:OG1	2.15	0.46
1:I:570:TRP:O	1:I:607:VAL:HG22	2.16	0.46
1:D:921:PRO:O	1:D:922:LEU:C	2.54	0.46
1:F:927:THR:CG2	1:F:929:TYR:CE2	2.98	0.46
1:G:741:THR:HG22	1:G:741:THR:O	2.14	0.46
1:L:322:LEU:HD23	1:L:324:GLU:N	2.31	0.46
1:H:930:VAL:HA	1:H:973:ARG:HD3	1.96	0.46
1:B:369:GLU:O	1:B:373:VAL:HG23	2.16	0.46
1:C:36:TRP:C	1:C:37:ARG:HD3	2.34	0.46
1:K:972:HIS:CB	1:K:974:HIS:CD2	2.98	0.46
1:A:433:LEU:HB3	1:A:434:PRO:CD	2.44	0.46
1:P:658:LEU:HD22	1:P:688:PRO:HG2	1.97	0.46
1:D:421:VAL:HA	1:D:422:PRO:HA	1.81	0.46
1:C:246:MET:HE2	1:C:287:ASP:CB	2.42	0.46
1:A:625:GLN:HB2	1:A:716:ALA:HB2	1.98	0.46
1:G:856:TYR:CD2	1:G:864:MET:CE	2.99	0.46
1:B:237:ARG:CD	1:B:296:GLU:HG2	2.45	0.46
1:P:764:PHE:O	1:P:765:LEU:C	2.51	0.46
1:L:878:HIS:CD2	1:L:1010:SER:CB	2.99	0.46
1:J:202:MET:O	1:J:204:ARG:HD3	2.16	0.46
1:H:645:ARG:HH12	1:H:648:ASP:H	1.62	0.46
1:O:66:PRO:HB3	1:O:187:MET:HE3	1.96	0.46
1:P:849:LEU:CB	1:P:850:PHE:CE2	2.99	0.46
1:A:78:LEU:O	1:A:79:PRO:C	2.54	0.46
1:C:210:ARG:NH1	1:C:395:HIS:CA	2.79	0.46
1:L:285:TYR:HB3	1:L:288:ARG:HG3	1.97	0.46
1:N:129:VAL:HG23	1:N:182:ASN:HD22	1.79	0.46
1:J:24:LEU:HD21	1:K:13:ARG:NH1	2.31	0.46
1:G:658:LEU:HD12	1:G:659:ASP:N	2.31	0.46
1:B:935:ASN:HD22	1:B:935:ASN:N	2.13	0.46
1:F:930:VAL:HA	1:F:973:ARG:HD3	1.98	0.46
1:L:390:SER:CB	1:L:391:HIS:ND1	2.79	0.46
1:A:796:SER:OG	1:A:802:ASP:N	2.46	0.46
1:D:742:THR:CG2	1:D:743:SER:N	2.79	0.46
1:J:768:MET:CG	1:J:769:TRP:N	2.78	0.46
1:E:134:LEU:N	1:E:134:LEU:CD2	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:246:MET:CG	1:G:274:PHE:CE2	2.99	0.46
1:K:883:GLY:HA3	1:K:987:ASP:HA	1.98	0.46
1:A:127:PHE:CD1	1:A:127:PHE:N	2.84	0.46
1:B:578:TYR:HA	1:B:583:ASN:O	2.14	0.46
1:A:229:THR:HG21	1:A:332:PHE:CD1	2.51	0.46
1:P:347:LYS:NZ	1:P:643:LEU:O	2.44	0.46
1:G:164:ASP:N	3:G:1240:HOH:O	2.28	0.46
1:F:413:ALA:HB2	1:F:443:MET:CE	2.46	0.46
1:M:259:SER:HA	1:M:269:SER:HA	1.96	0.46
1:D:595:THR:HG23	1:D:596:PRO:HA	1.97	0.46
1:A:782:ASP:HA	1:A:884:LEU:HD23	1.98	0.46
1:N:908:ASP:N	1:N:908:ASP:OD1	2.46	0.46
1:J:642:TYR:O	1:J:674:PRO:HB3	2.16	0.46
1:D:552:TYR:O	1:D:554:GLN:N	2.48	0.46
1:J:830:LEU:O	1:J:831:ALA:C	2.53	0.46
1:A:888:LEU:O	1:A:981:GLY:HA3	2.15	0.46
1:L:493:THR:CG2	1:L:494:THR:N	2.79	0.46
1:I:743:SER:O	1:I:760:ARG:NH1	2.49	0.46
1:E:23:GLN:HB2	1:E:26:ARG:HE	1.80	0.46
1:P:323:ILE:CD1	1:P:323:ILE:N	2.79	0.46
1:P:906:TYR:N	1:P:906:TYR:CD1	2.83	0.46
1:P:937:LEU:HD23	1:P:938:ARG:C	2.35	0.46
1:D:745:MET:O	1:D:746:ASP:HB3	2.16	0.46
1:P:600:GLN:O	1:P:601:PHE:C	2.54	0.46
1:P:278:ILE:CG2	1:P:279:ILE:N	2.79	0.46
1:H:572:ASP:HB3	1:H:603:MET:CB	2.36	0.46
1:E:73:TRP:CE2	1:E:122:CYS:HB3	2.51	0.46
1:B:43:ARG:HD2	1:B:261:TRP:CE2	2.51	0.46
1:C:433:LEU:N	1:C:434:PRO:CD	2.79	0.46
1:K:79:PRO:CD	1:K:80:GLU:H	2.28	0.46
1:O:427:THR:HG21	1:O:462:SER:HB3	1.98	0.46
1:H:387:VAL:CG2	1:H:388:ARG:N	2.79	0.46
1:K:100:TYR:O	1:K:597:ASN:HA	2.15	0.46
1:H:100:TYR:CB	1:H:203:TRP:CZ3	2.98	0.46
1:A:928:PRO:O	1:A:973:ARG:NH1	2.49	0.46
1:E:246:MET:HG2	1:E:274:PHE:CZ	2.51	0.46
1:M:293:LEU:HA	1:M:293:LEU:HD23	1.30	0.46
1:L:218:PRO:HD2	1:L:324:GLU:OE2	2.16	0.46
1:D:906:TYR:N	1:D:906:TYR:CD1	2.83	0.46
1:A:686:PRO:C	1:A:688:PRO:HD3	2.36	0.46
1:G:903:GLN:O	1:G:904:GLU:C	2.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:210:ARG:O	1:M:211:ASP:O	2.34	0.46
1:E:433:LEU:N	1:E:434:PRO:CD	2.78	0.46
1:E:471:LEU:O	1:E:475:ILE:HG13	2.16	0.46
1:F:102:ASN:HB2	1:F:201:ASP:OD1	2.16	0.46
1:C:583:ASN:HA	1:C:584:PRO:HD3	1.76	0.46
1:J:40:GLU:CG	1:J:43:ARG:NH1	2.79	0.46
1:H:706:THR:HG23	1:H:709:SER:OG	2.16	0.46
1:O:651:LEU:CD2	1:O:703:PRO:HG3	2.46	0.46
1:M:645:ARG:NH2	1:M:650:GLU:OE1	2.49	0.46
1:B:210:ARG:NH1	1:B:395:HIS:CA	2.79	0.46
1:B:232:ASN:ND2	1:B:237:ARG:CG	2.79	0.46
1:G:498:ILE:HG22	1:G:499:ILE:N	2.31	0.46
1:K:904:GLU:CG	1:K:906:TYR:HE1	2.29	0.46
1:P:134:LEU:HD11	1:P:178:ARG:O	2.16	0.46
1:G:251:ARG:CB	1:G:253:TYR:CE1	2.99	0.46
1:G:308:LEU:HD13	1:G:329:ASP:CB	2.46	0.46
1:N:18:ASN:ND2	1:N:21:VAL:HG23	2.30	0.46
1:K:807:VAL:CG1	1:K:808:GLU:N	2.79	0.46
1:M:333:ARG:NH1	1:M:451:PRO:HA	2.31	0.46
1:L:806:TRP:CZ3	1:L:809:ARG:NH2	2.83	0.46
1:N:775:GLN:CA	1:N:775:GLN:NE2	2.79	0.46
1:E:417:THR:O	1:E:418:HIS:C	2.54	0.46
1:J:472:TYR:HD1	1:J:484:VAL:CG1	2.29	0.46
1:F:262:GLN:O	1:F:262:GLN:HG2	2.16	0.46
1:D:766:SER:HA	1:D:779:PRO:HB3	1.98	0.46
1:K:123:TYR:N	1:K:123:TYR:CD1	2.84	0.46
1:K:851:ILE:HG22	1:K:851:ILE:O	2.14	0.46
1:A:378:LEU:O	1:A:379:MET:C	2.54	0.46
1:L:335:VAL:HG22	1:L:344:LEU:HD12	1.97	0.46
1:N:356:ARG:O	1:N:356:ARG:HG2	2.16	0.46
1:H:820:ALA:HB2	1:H:842:TRP:NE1	2.31	0.46
1:K:429:ASP:OD1	1:K:430:PRO:HD2	2.15	0.46
1:A:340:GLY:O	1:A:532:PRO:HB3	2.16	0.46
1:N:615:PRO:HD2	3:N:1287:HOH:O	2.16	0.46
1:F:749:ILE:N	1:F:749:ILE:CD1	2.79	0.46
1:O:620:ALA:O	1:O:624:GLN:HB2	2.16	0.46
1:N:836:ILE:HG22	1:N:837:THR:N	2.31	0.46
1:B:738:PRO:N	1:B:751:LEU:CD1	2.79	0.46
1:P:997:ASP:HB2	1:P:999:TRP:CZ2	2.51	0.46
1:O:548:GLY:O	1:O:549:PHE:C	2.55	0.46
1:A:867:THR:HG22	1:A:867:THR:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:183:ARG:HH11	1:D:183:ARG:HD3	1.43	0.46
1:I:354:VAL:HG23	1:I:567:VAL:HB	1.98	0.46
1:E:547:GLY:HA2	1:E:908:ASP:O	2.15	0.46
1:N:698:VAL:HG22	1:N:718:GLN:O	2.16	0.46
1:I:254:LEU:O	1:I:255:ARG:HD3	2.15	0.46
1:I:134:LEU:CD1	1:I:179:ALA:N	2.78	0.46
1:P:906:TYR:CB	1:P:993:ILE:HG23	2.46	0.46
1:M:413:ALA:HB2	1:M:443:MET:CE	2.46	0.46
1:P:246:MET:HB3	1:P:274:PHE:HZ	1.81	0.46
1:P:115:PRO:HD2	1:P:191:TRP:CB	2.46	0.46
1:P:390:SER:CA	1:P:391:HIS:ND1	2.79	0.46
1:L:951:TRP:HB3	1:L:1018:LEU:HD21	1.98	0.46
1:E:960:SER:O	1:E:983:TRP:N	2.47	0.46
1:D:857:ARG:CG	1:D:857:ARG:NH1	2.78	0.46
1:E:920:LEU:CB	1:E:921:PRO:HD2	2.44	0.46
1:K:26:ARG:CZ	1:K:442:ARG:NH1	2.79	0.46
1:M:127:PHE:N	1:M:127:PHE:CD1	2.84	0.46
1:H:567:VAL:CG1	1:H:568:TRP:N	2.79	0.46
1:B:842:TRP:O	1:B:843:GLN:HG2	2.16	0.46
1:E:285:TYR:HD1	1:H:425:ARG:NH2	2.14	0.46
1:M:256:VAL:CG1	1:M:257:THR:N	2.79	0.46
1:M:765:LEU:HD22	1:M:864:MET:HE3	1.97	0.46
1:G:7:LEU:HD12	1:G:74:LEU:CD1	2.42	0.46
1:G:558:GLN:HB3	1:G:559:TYR:HD1	1.81	0.46
1:G:559:TYR:N	1:G:559:TYR:HD1	2.14	0.46
1:E:368:ASP:OD1	1:E:370:GLN:HB2	2.15	0.46
1:P:456:TRP:NE1	1:P:482:ARG:CD	2.79	0.46
1:P:454:ILE:C	1:P:455:ILE:HG12	2.36	0.46
1:L:14:ARG:NH1	1:L:16:TRP:CZ2	2.78	0.46
1:O:441:THR:HG22	1:O:474:TRP:CE3	2.51	0.46
1:H:261:TRP:CZ3	1:H:266:GLN:N	2.84	0.46
1:G:894:ARG:NH1	1:G:920:LEU:CA	2.79	0.46
1:L:766:SER:O	1:L:767:GLN:HB2	2.16	0.46
1:D:390:SER:HA	1:D:391:HIS:HA	1.59	0.46
1:E:486:TYR:H	1:E:496:THR:HB	1.81	0.46
1:N:91:GLN:NE2	1:N:190:ARG:CZ	2.79	0.46
1:L:246:MET:CG	1:L:274:PHE:CE2	2.99	0.46
1:E:627:PHE:O	1:E:628:GLN:HG2	2.16	0.46
1:A:62:TRP:CZ2	1:A:119:PRO:HB3	2.50	0.46
1:K:253:TYR:N	1:K:253:TYR:CD1	2.80	0.46
1:A:767:GLN:HG3	1:A:768:MET:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:434:PRO:HB3	1:G:434:PRO:HB3	1.98	0.46
1:D:86:VAL:HG13	1:D:87:PRO:HA	1.98	0.46
1:K:1015:HIS:CE1	1:L:1015:HIS:ND1	2.84	0.46
1:D:23:GLN:OE1	1:D:26:ARG:N	2.39	0.46
1:O:897:TRP:CH2	1:O:918:TRP:CB	2.99	0.46
1:B:330:VAL:HA	3:B:1267:HOH:O	2.15	0.46
1:O:127:PHE:CE1	1:O:184:LEU:CD1	2.99	0.46
1:H:883:GLY:HA3	1:H:986:ILE:O	2.15	0.46
1:G:439:ARG:HB3	3:G:1268:HOH:O	2.15	0.46
1:I:406:GLY:O	1:I:407:LEU:HD23	2.16	0.46
1:D:118:ASN:O	1:D:119:PRO:C	2.54	0.46
1:M:463:GLY:O	1:M:486:TYR:OH	2.28	0.46
1:N:905:ASN:HB2	1:N:910:LEU:HB3	1.97	0.46
1:J:327:ALA:O	1:J:328:CYS:HB3	2.16	0.46
1:J:994:GLY:N	1:J:1003:VAL:HG22	2.31	0.46
1:D:347:LYS:HB3	1:D:348:PRO:HD2	1.98	0.46
1:F:984:LEU:HD21	1:F:986:ILE:HD11	1.97	0.46
1:D:367:MET:HE2	1:D:372:MET:HG3	1.97	0.46
1:E:167:LEU:HD23	1:E:446:ARG:HH11	1.79	0.45
1:E:23:GLN:OE1	1:E:26:ARG:HB3	2.16	0.45
1:P:22:THR:O	1:P:23:GLN:HB3	2.16	0.45
1:G:768:MET:CE	1:G:1022:GLN:NE2	2.79	0.45
1:M:429:ASP:HB3	1:M:432:TRP:HD1	1.81	0.45
1:M:439:ARG:NH1	1:M:439:ARG:CG	2.78	0.45
1:O:730:LEU:HD12	1:O:731:PRO:N	2.29	0.45
1:H:920:LEU:HB3	1:H:921:PRO:CD	2.46	0.45
1:G:100:TYR:O	1:G:597:ASN:HA	2.16	0.45
1:I:114:VAL:HG13	1:I:115:PRO:CD	2.37	0.45
1:K:1021:CYS:SG	1:K:1022:GLN:N	2.89	0.45
1:K:775:GLN:NE2	1:K:775:GLN:CA	2.79	0.45
1:P:126:THR:HA	1:P:182:ASN:O	2.17	0.45
1:G:210:ARG:HH11	1:G:395:HIS:CA	2.29	0.45
1:B:917:ARG:NH2	1:B:943:GLU:OE2	2.48	0.45
1:E:246:MET:CG	1:E:274:PHE:CE2	2.97	0.45
1:M:301:TRP:CD1	1:M:306:PRO:CA	2.99	0.45
1:E:210:ARG:NH1	1:E:395:HIS:CA	2.79	0.45
1:P:740:LEU:HD13	1:P:749:ILE:CD1	2.45	0.45
1:N:352:ARG:CZ	1:N:626:PHE:CE1	2.99	0.45
1:P:662:PRO:O	1:P:663:LEU:HD23	2.16	0.45
1:L:107:ILE:CG2	1:L:191:TRP:CE2	2.99	0.45
1:G:558:GLN:O	1:H:522:LYS:HE3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:652:LEU:HD22	1:A:680:ILE:HD12	1.97	0.45
1:M:948:PRO:CD	1:M:949:HIS:N	2.78	0.45
1:P:784:PHE:CD2	1:P:850:PHE:CD2	3.05	0.45
1:L:767:GLN:CG	1:L:768:MET:N	2.78	0.45
1:O:46:ARG:HB3	1:O:47:PRO:CD	2.46	0.45
1:G:306:PRO:O	1:G:307:ASN:C	2.53	0.45
1:J:656:VAL:HG12	1:J:657:ALA:N	2.29	0.45
1:K:615:PRO:HB2	1:K:909:ARG:HH21	1.80	0.45
1:G:352:ARG:NE	1:G:626:PHE:CE1	2.84	0.45
1:H:211:ASP:OD1	1:H:211:ASP:N	2.29	0.45
1:N:643:LEU:HD23	1:N:643:LEU:HA	1.52	0.45
1:M:866:ILE:N	1:M:1018:LEU:O	2.43	0.45
1:P:341:LEU:HD23	1:P:561:ARG:HG2	1.97	0.45
1:B:579:ASP:OD1	1:B:583:ASN:HB2	2.16	0.45
1:I:906:TYR:HB3	1:I:907:PRO:CD	2.45	0.45
1:E:996:ASP:O	1:E:997:ASP:HB3	2.17	0.45
1:A:782:ASP:OD1	1:A:842:TRP:HH2	1.99	0.45
1:I:1013:ARG:HH11	1:J:954:ASP:HB2	1.80	0.45
1:C:513:PRO:O	1:C:514:ALA:HB3	2.15	0.45
1:O:354:VAL:HG22	1:O:355:ASN:O	2.16	0.45
1:B:465:GLY:O	1:B:468:HIS:HB2	2.15	0.45
1:P:805:ALA:O	1:P:809:ARG:HG3	2.16	0.45
1:C:1018:LEU:HD23	1:C:1018:LEU:HA	1.44	0.45
1:H:304:GLU:O	1:H:305:ILE:HG12	2.16	0.45
1:M:51:LEU:HD12	1:M:52:ARG:N	2.31	0.45
1:P:110:ASN:O	1:P:113:PHE:HB2	2.15	0.45
1:M:33:PHE:HD1	1:M:326:GLU:CD	2.19	0.45
1:P:378:LEU:O	1:P:379:MET:C	2.55	0.45
1:P:246:MET:CB	1:P:274:PHE:CZ	2.98	0.45
1:H:667:GLU:O	1:H:668:VAL:HG22	2.16	0.45
1:H:872:VAL:CG1	1:H:873:ALA:N	2.79	0.45
1:I:85:VAL:O	1:I:88:SER:HB3	2.15	0.45
1:P:823:LEU:HD12	1:P:839:ALA:O	2.16	0.45
1:O:687:GLN:N	1:O:688:PRO:CD	2.79	0.45
1:C:357:HIS:HD2	1:C:392:TYR:OH	1.99	0.45
1:G:227:VAL:HG13	1:G:240:LEU:HD11	1.95	0.45
1:G:240:LEU:CD2	1:G:260:LEU:HD13	2.47	0.45
1:H:165:SER:OG	1:H:198:GLU:OE2	2.32	0.45
1:H:354:VAL:HG22	1:H:355:ASN:O	2.16	0.45
1:L:258:VAL:CG1	1:L:293:LEU:HD11	2.38	0.45
1:M:251:ARG:HB3	1:M:253:TYR:CZ	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:100:TYR:CZ	1:C:602:CYS:HB3	2.51	0.45
1:O:822:LEU:HD12	1:O:822:LEU:C	2.36	0.45
1:B:419:GLY:HA2	1:C:282:ARG:HH11	1.80	0.45
1:L:58:TRP:CE2	1:L:125:LEU:CD2	2.99	0.45
1:M:232:ASN:ND2	1:M:236:SER:H	2.14	0.45
1:E:144:ASP:CB	1:E:210:ARG:HB3	2.45	0.45
1:A:434:PRO:HB3	1:D:434:PRO:HB3	1.98	0.45
1:E:683:PRO:O	1:E:684:GLU:C	2.54	0.45
1:J:52:ARG:HB3	1:J:214:LEU:HB2	1.96	0.45
1:B:767:GLN:CG	1:B:768:MET:N	2.79	0.45
1:P:807:VAL:CG1	1:P:808:GLU:N	2.79	0.45
1:P:944:LEU:O	1:P:950:GLN:HA	2.16	0.45
1:G:320:GLY:O	1:G:321:THR:C	2.53	0.45
1:L:499:ILE:HG13	1:L:499:ILE:H	1.50	0.45
1:K:210:ARG:NH1	1:K:395:HIS:CA	2.80	0.45
1:K:927:THR:HG21	1:K:929:TYR:CZ	2.51	0.45
1:E:354:VAL:HG11	1:E:379:MET:CE	2.45	0.45
1:A:223:SER:O	1:A:224:ASP:HB2	2.16	0.45
1:A:79:PRO:CG	1:A:80:GLU:H	2.28	0.45
1:L:246:MET:HE1	1:L:287:ASP:HB3	1.98	0.45
1:B:939:CYS:HA	1:B:956:GLN:HB3	1.97	0.45
1:P:870:VAL:CG1	1:P:871:GLU:N	2.79	0.45
1:N:310:ARG:HG3	1:N:311:ALA:H	1.80	0.45
1:J:387:VAL:CG2	1:J:388:ARG:N	2.79	0.45
1:C:928:PRO:HB2	1:C:973:ARG:HH11	1.81	0.45
1:A:37:ARG:NH2	1:A:216:HIS:O	2.50	0.45
1:J:767:GLN:OE1	1:J:768:MET:N	2.40	0.45
1:B:409:VAL:CG1	1:B:410:VAL:N	2.79	0.45
1:D:619:GLU:OE1	1:D:619:GLU:HA	2.16	0.45
1:D:810:TRP:CZ2	1:D:991:MET:CE	3.00	0.45
1:N:585:TRP:CE3	1:N:974:HIS:CE1	3.04	0.45
1:D:668:VAL:HG13	1:D:669:PRO:CD	2.47	0.45
1:M:842:TRP:CH2	1:M:852:SER:HB3	2.51	0.45
1:B:738:PRO:N	1:B:751:LEU:HD13	2.32	0.45
1:E:107:ILE:HG12	1:E:108:THR:N	2.31	0.45
1:O:129:VAL:CG2	1:O:182:ASN:ND2	2.79	0.45
1:A:334:GLU:OE1	1:A:336:ARG:HD3	2.17	0.45
1:M:143:PHE:O	1:M:145:GLY:N	2.50	0.45
1:M:12:GLN:NE2	1:M:12:GLN:O	2.50	0.45
1:E:18:ASN:ND2	1:E:21:VAL:CG2	2.79	0.45
1:P:173:LEU:O	1:P:177:LEU:N	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:137:GLY:HA3	1:P:217:LYS:O	2.16	0.45
1:E:50:GLN:O	1:E:215:LEU:HA	2.17	0.45
1:M:592:PHE:N	1:M:594:ASP:OD1	2.48	0.45
1:I:395:HIS:CG	1:I:396:PRO:HD2	2.51	0.45
1:L:433:LEU:N	1:L:434:PRO:CD	2.80	0.45
1:E:894:ARG:NH1	1:E:920:LEU:CA	2.78	0.45
1:K:240:LEU:CD2	1:K:260:LEU:HD13	2.46	0.45
1:M:118:ASN:HB2	1:M:191:TRP:HD1	1.82	0.45
1:D:919:ASP:O	1:D:920:LEU:HD23	2.16	0.45
1:I:66:PRO:CB	1:I:187:MET:HE1	2.46	0.45
1:H:152:LEU:CG	1:H:153:TRP:N	2.80	0.45
1:M:959:ILE:HB	1:M:984:LEU:HD11	1.98	0.45
1:P:127:PHE:CE1	1:P:184:LEU:CD1	2.99	0.45
1:G:85:VAL:HG12	1:G:86:VAL:N	2.32	0.45
1:K:354:VAL:CG2	1:K:355:ASN:N	2.79	0.45
1:E:249:GLU:CB	1:E:251:ARG:NH1	2.79	0.45
1:N:742:THR:CG2	1:N:743:SER:N	2.79	0.45
1:L:654:TRP:HE3	1:L:655:MET:N	2.14	0.45
1:N:188:VAL:HG12	1:N:189:LEU:N	2.32	0.45
1:E:926:TYR:O	1:E:928:PRO:HD3	2.17	0.45
1:K:126:THR:HG22	1:K:126:THR:O	2.15	0.45
1:M:856:TYR:CD2	1:M:864:MET:CE	2.98	0.45
1:E:210:ARG:HH11	1:E:395:HIS:HA	1.81	0.45
1:E:395:HIS:CE1	1:E:397:LEU:HB3	2.50	0.45
1:C:657:ALA:O	1:C:694:LEU:HD12	2.17	0.45
1:H:599:ARG:HB2	1:H:600:GLN:H	1.36	0.45
1:A:7:LEU:O	1:A:8:ALA:C	2.53	0.45
1:N:24:LEU:HD12	1:N:24:LEU:HA	1.46	0.45
1:B:621:LYS:HE2	1:B:717:TRP:HZ3	1.80	0.45
1:O:92:MET:CE	1:O:364:GLY:N	2.79	0.45
1:B:775:GLN:NE2	1:B:775:GLN:CA	2.80	0.45
1:A:100:TYR:CE2	1:A:598:ASP:HB2	2.51	0.45
1:H:492:ASP:HB3	1:H:499:ILE:CG2	2.45	0.45
1:A:608:PHE:O	1:A:610:ASP:N	2.50	0.45
1:F:578:TYR:HA	1:F:583:ASN:O	2.16	0.45
1:L:870:VAL:N	1:L:1014:TYR:O	2.45	0.45
1:E:661:LYS:O	1:E:663:LEU:HD23	2.16	0.45
1:H:970:THR:CG2	1:H:975:LEU:HB2	2.47	0.45
1:J:202:MET:CE	1:J:357:HIS:CD2	2.99	0.45
1:A:391:HIS:CD2	1:A:460:ASN:ND2	2.85	0.45
1:L:856:TYR:CD2	1:L:864:MET:CE	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:531:ARG:HB3	1:E:532:PRO:CD	2.46	0.45
1:G:991:MET:CG	1:G:992:GLY:N	2.79	0.45
1:D:189:LEU:N	1:D:189:LEU:CD2	2.80	0.45
1:J:698:VAL:CG2	1:J:720:TRP:HZ3	2.30	0.45
1:L:390:SER:CA	1:L:391:HIS:ND1	2.79	0.45
1:A:14:ARG:NH1	1:A:14:ARG:CG	2.78	0.45
1:L:409:VAL:CG1	1:L:410:VAL:N	2.79	0.45
1:E:810:TRP:CH2	1:E:991:MET:CE	2.99	0.45
1:O:558:GLN:NE2	1:P:509:ASP:OD2	2.49	0.45
1:A:419:GLY:HA2	1:D:282:ARG:NH1	2.31	0.45
1:I:38:ASN:HD22	1:I:41:GLU:H	1.65	0.45
1:E:400:THR:HG22	1:E:404:ARG:HD3	1.98	0.45
1:B:59:ARG:HA	1:B:82:ASP:O	2.15	0.45
1:C:768:MET:HG3	1:C:769:TRP:N	2.28	0.45
1:O:745:MET:CE	1:O:761:GLN:NE2	2.80	0.45
1:H:951:TRP:HE3	1:H:951:TRP:N	2.14	0.45
1:N:6:SER:O	1:N:9:VAL:HB	2.17	0.45
1:A:975:LEU:HA	1:A:975:LEU:HD23	1.55	0.45
1:G:510:GLN:HA	1:G:511:PRO:HD2	1.83	0.45
1:J:62:TRP:CZ2	1:J:119:PRO:HB3	2.51	0.45
1:D:682:LEU:HA	1:D:683:PRO:HD3	1.68	0.45
1:G:63:PHE:HB3	1:G:64:PRO:HD2	1.98	0.45
1:O:753:ASN:N	1:O:753:ASN:OD1	2.49	0.45
1:P:694:LEU:HD12	1:P:694:LEU:HA	1.60	0.45
1:K:545:SER:OG	1:K:791:ASN:ND2	2.46	0.45
1:O:777:LEU:HG	1:O:889:ALA:HB2	1.97	0.45
1:I:130:ASP:OD1	1:I:132:SER:N	2.45	0.45
1:I:131:GLU:H	1:I:131:GLU:HG2	1.52	0.45
1:M:90:TRP:CZ3	1:M:121:GLY:HA3	2.52	0.45
1:O:778:THR:OG1	1:O:887:GLN:HB3	2.16	0.45
1:P:203:TRP:CD1	1:P:575:LEU:HD21	2.51	0.45
1:P:705:ALA:HB1	1:P:709:SER:O	2.16	0.45
1:M:433:LEU:CA	1:M:467:ASN:ND2	2.79	0.45
1:M:474:TRP:CE2	1:M:478:VAL:HG21	2.52	0.45
1:P:246:MET:CG	1:P:274:PHE:CZ	2.97	0.45
1:O:153:TRP:CD1	1:O:158:TRP:N	2.85	0.45
1:M:517:LYS:HE2	3:M:1259:HOH:O	2.17	0.45
1:H:1020:TRP:HD1	1:H:1021:CYS:H	1.64	0.45
1:P:559:TYR:CB	1:P:562:LEU:HD12	2.34	0.45
1:H:16:TRP:CE3	1:H:189:LEU:CD1	3.00	0.45
1:O:100:TYR:CZ	1:O:602:CYS:HB3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:850:PHE:HA	1:O:871:GLU:O	2.17	0.45
1:M:129:VAL:CG1	1:M:130:ASP:N	2.79	0.45
1:P:670:LEU:HA	1:P:670:LEU:HD23	1.50	0.45
1:J:65:ALA:HA	1:J:118:ASN:O	2.17	0.45
1:N:227:VAL:HG12	1:N:228:ALA:N	2.31	0.45
1:L:78:LEU:CB	1:L:79:PRO:HD2	2.41	0.45
1:K:738:PRO:N	1:K:751:LEU:CD1	2.80	0.45
1:G:579:ASP:OD1	1:G:583:ASN:N	2.48	0.45
1:O:210:ARG:NH1	1:O:395:HIS:CA	2.79	0.45
1:O:770:ILE:CD1	1:O:1022:GLN:HG2	2.42	0.45
1:O:670:LEU:HA	1:O:670:LEU:HD23	1.59	0.45
1:N:382:ASN:O	1:N:621:LYS:HA	2.17	0.45
1:B:595:THR:CG2	1:B:596:PRO:HA	2.42	0.45
1:E:194:GLY:O	1:E:198:GLU:HG3	2.16	0.45
1:M:523:TRP:CD1	1:M:526:LEU:CD1	3.00	0.45
1:F:134:LEU:HD11	1:F:179:ALA:HA	1.98	0.45
1:K:954:ASP:CB	1:L:1013:ARG:NH2	2.79	0.45
1:C:80:GLU:H	1:C:80:GLU:HG3	1.32	0.45
1:N:694:LEU:HD12	1:N:694:LEU:HA	1.75	0.45
1:A:237:ARG:CG	1:A:237:ARG:NH1	2.80	0.45
1:E:693:GLN:CG	1:E:721:ARG:HD2	2.46	0.45
1:O:27:LEU:CD1	1:O:140:ARG:NH1	2.79	0.45
1:H:767:GLN:CG	1:H:768:MET:N	2.80	0.45
1:B:251:ARG:CB	1:B:253:TYR:CE2	2.99	0.45
1:E:830:LEU:HB3	1:F:828:ASP:CG	2.37	0.45
1:H:231:PHE:HA	1:H:237:ARG:O	2.17	0.45
1:E:757:GLN:O	1:E:765:LEU:HD12	2.15	0.45
1:G:107:ILE:O	1:G:108:THR:C	2.53	0.45
1:K:135:GLN:HB3	1:K:136:GLU:HG3	1.99	0.45
1:I:524:LEU:HD13	1:I:561:ARG:HB2	1.98	0.45
1:K:538:TYR:CE1	1:K:567:VAL:HG23	2.51	0.45
1:G:929:TYR:O	1:G:930:VAL:C	2.55	0.45
1:A:46:ARG:HB3	1:A:47:PRO:HD2	1.99	0.45
1:K:84:VAL:HG12	1:K:85:VAL:N	2.32	0.45
1:H:333:ARG:NH1	1:H:451:PRO:O	2.50	0.45
1:A:210:ARG:HH11	1:A:395:HIS:HB2	1.80	0.45
1:L:691:ALA:HA	1:L:725:ASN:HB3	1.99	0.45
1:D:967:LEU:HA	1:D:967:LEU:HD23	1.70	0.45
1:A:424:ASN:OD1	1:D:279:ILE:HD11	2.17	0.45
1:E:26:ARG:O	1:E:27:LEU:O	2.34	0.45
1:P:352:ARG:CZ	1:P:626:PHE:CE1	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:599:ARG:NH2	1:M:797:GLU:HG3	2.30	0.45
1:M:99:ILE:CG2	1:M:100:TYR:N	2.79	0.45
1:P:786:ARG:CZ	1:P:789:LEU:HD11	2.47	0.45
1:P:375:ASP:O	1:P:378:LEU:HB2	2.17	0.45
1:P:625:GLN:CD	1:P:716:ALA:HB1	2.36	0.45
1:M:418:HIS:O	1:M:420:MET:N	2.49	0.45
1:H:35:SER:OG	1:H:217:LYS:HG2	2.16	0.45
1:K:747:PHE:CZ	1:K:760:ARG:CD	2.99	0.45
1:I:210:ARG:HH12	1:I:395:HIS:N	2.14	0.45
1:N:232:ASN:HD21	1:N:236:SER:CB	2.15	0.45
1:P:745:MET:O	1:P:746:ASP:HB3	2.16	0.45
1:E:601:PHE:CZ	1:E:795:VAL:CG1	3.00	0.45
1:I:85:VAL:CG1	1:I:86:VAL:N	2.80	0.45
1:H:70:PRO:CG	1:H:78:LEU:HD11	2.36	0.45
1:E:959:ILE:C	3:E:1281:HOH:O	2.53	0.45
1:B:434:PRO:HB3	1:C:434:PRO:HB3	1.99	0.45
1:I:471:LEU:O	1:I:475:ILE:HG13	2.16	0.45
1:E:574:SER:C	1:E:575:LEU:HG	2.36	0.45
1:J:599:ARG:HB2	1:J:600:GLN:OE1	2.15	0.45
1:H:590:GLY:CA	1:H:597:ASN:ND2	2.80	0.45
1:O:103:VAL:CG2	1:O:418:HIS:CE1	3.00	0.45
1:M:279:ILE:HG13	1:M:280:ASP:N	2.30	0.45
1:D:904:GLU:CG	1:D:906:TYR:HE1	2.26	0.45
1:F:11:LEU:HD13	1:F:66:PRO:HB2	1.99	0.45
1:L:58:TRP:NE1	1:L:125:LEU:HD22	2.32	0.45
1:M:210:ARG:HH12	1:M:395:HIS:N	2.14	0.45
1:E:395:HIS:CE1	1:E:397:LEU:CB	2.99	0.45
1:I:576:ILE:CG2	1:I:577:LYS:N	2.78	0.45
1:E:309:TYR:O	1:E:330:VAL:N	2.39	0.45
1:N:658:LEU:HD12	1:N:659:ASP:H	1.76	0.45
1:P:815:HIS:HE1	1:P:877:PRO:O	1.99	0.45
1:I:89:ASN:O	1:I:90:TRP:C	2.53	0.45
1:O:782:ASP:CA	1:O:884:LEU:HD23	2.43	0.45
1:N:708:TRP:CD1	1:N:708:TRP:N	2.84	0.45
1:P:84:VAL:HG12	1:P:85:VAL:H	1.82	0.45
1:F:189:LEU:CD2	1:F:189:LEU:N	2.79	0.45
1:G:698:VAL:CG2	1:G:720:TRP:CH2	3.00	0.45
1:P:738:PRO:N	1:P:751:LEU:CD1	2.80	0.45
1:H:448:ARG:HA	1:H:482:ARG:HH12	1.82	0.45
1:L:30:HIS:ND1	1:L:31:PRO:O	2.45	0.45
1:F:258:VAL:HG22	1:F:313:VAL:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:894:ARG:HH12	1:G:920:LEU:CA	2.28	0.45
1:G:91:GLN:HG3	1:G:96:ASP:OD1	2.16	0.45
1:K:796:SER:OG	1:K:802:ASP:N	2.37	0.45
1:N:84:VAL:CG1	1:N:85:VAL:N	2.79	0.45
1:N:678:GLN:O	1:N:679:LEU:HD23	2.17	0.45
1:D:237:ARG:HD2	1:D:296:GLU:HG2	1.99	0.45
1:M:63:PHE:HA	1:M:64:PRO:HD3	1.75	0.45
1:L:810:TRP:CH2	1:L:991:MET:CE	3.00	0.45
1:N:134:LEU:HD22	1:N:134:LEU:HA	1.65	0.45
1:B:133:TRP:HA	1:B:216:HIS:CE1	2.52	0.45
1:D:368:ASP:O	1:D:369:GLU:C	2.55	0.45
1:H:399:TYR:CE1	1:H:446:ARG:NH2	2.84	0.45
1:K:894:ARG:NH1	1:K:920:LEU:CA	2.80	0.45
1:C:749:ILE:CD1	1:C:749:ILE:N	2.80	0.45
1:O:238:ALA:HB2	1:O:298:PRO:HG3	1.99	0.45
1:H:768:MET:CE	1:H:1022:GLN:NE2	2.79	0.45
1:H:789:LEU:O	1:H:792:ASP:N	2.49	0.45
1:D:895:VAL:CG1	1:D:896:ASN:N	2.79	0.45
1:E:105:TYR:CD2	1:E:109:VAL:CG2	2.99	0.45
1:C:768:MET:CE	1:C:1022:GLN:NE2	2.80	0.45
1:B:282:ARG:HH11	1:C:419:GLY:HA2	1.82	0.45
1:I:970:THR:HG21	1:I:976:LEU:CD2	2.46	0.45
1:D:651:LEU:CD1	1:D:669:PRO:HA	2.47	0.45
1:F:682:LEU:CD2	1:F:683:PRO:HD2	2.47	0.45
1:F:576:ILE:CG2	1:F:577:LYS:N	2.80	0.45
1:P:643:LEU:HD23	1:P:643:LEU:HA	1.74	0.45
1:D:655:MET:CG	1:D:656:VAL:N	2.79	0.45
1:E:875:ASP:OD2	1:F:723:ALA:HB1	2.17	0.45
1:C:807:VAL:CG1	1:C:808:GLU:N	2.79	0.45
1:N:117:GLU:OE1	1:N:117:GLU:N	2.37	0.45
1:F:722:LEU:HD23	1:F:722:LEU:HA	1.77	0.45
1:O:704:ASN:N	1:O:704:ASN:OD1	2.49	0.45
1:K:515:VAL:O	1:K:515:VAL:HG23	2.17	0.45
1:L:330:VAL:CG1	1:L:332:PHE:CE1	3.00	0.45
1:K:352:ARG:HB2	1:K:385:ASN:HB2	1.98	0.45
1:B:870:VAL:O	1:B:1013:ARG:HA	2.17	0.45
1:B:876:THR:HA	1:B:877:PRO:HD3	1.81	0.45
1:M:27:LEU:CD1	1:M:140:ARG:NH2	2.80	0.45
1:M:50:GLN:H	1:M:50:GLN:NE2	2.15	0.45
1:P:955:PHE:CD2	1:P:986:ILE:CG2	3.00	0.45
1:P:568:TRP:HA	1:P:569:ASP:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:570:TRP:CD1	1:P:571:VAL:CG2	2.98	0.45
1:H:324:GLU:CG	1:H:325:ALA:N	2.79	0.45
1:K:759:ASN:OD1	1:K:761:GLN:N	2.34	0.45
1:E:590:GLY:N	1:E:597:ASN:HD22	2.15	0.45
1:E:797:GLU:HB2	1:E:800:ARG:H	1.81	0.45
1:L:959:ILE:HB	1:L:984:LEU:HD12	1.98	0.45
1:F:360:HIS:CE1	1:F:362:LEU:H	2.34	0.45
1:L:1022:GLN:C	1:L:1023:LYS:HG3	2.36	0.45
1:D:621:LYS:HE2	1:D:717:TRP:HZ3	1.82	0.45
1:D:250:LEU:HD23	1:D:250:LEU:HA	1.64	0.45
1:D:210:ARG:HH11	1:D:395:HIS:HB2	1.82	0.45
1:H:891:VAL:HG12	1:H:891:VAL:O	2.16	0.45
1:K:141:ILE:HG12	1:K:142:ILE:N	2.30	0.45
1:F:651:LEU:N	1:F:701:VAL:O	2.42	0.45
1:K:14:ARG:HH12	1:K:16:TRP:HZ2	1.63	0.45
1:J:672:VAL:HG13	1:J:678:GLN:CB	2.42	0.45
1:E:762:SER:O	1:E:822:LEU:HD22	2.16	0.45
1:E:824:GLN:HB3	1:E:839:ALA:HB3	1.99	0.45
1:I:89:ASN:ND2	1:I:205:MET:HB3	2.32	0.45
1:P:229:THR:HG21	1:P:332:PHE:CE2	2.51	0.45
1:A:217:LYS:HZ3	1:A:324:GLU:CD	2.18	0.45
1:K:308:LEU:HD23	1:K:308:LEU:HA	1.62	0.45
1:F:78:LEU:N	1:F:78:LEU:HD23	2.31	0.45
1:B:390:SER:CA	1:B:391:HIS:ND1	2.79	0.45
1:L:194:GLY:O	1:L:198:GLU:HG3	2.16	0.45
1:O:505:ARG:NE	3:O:1250:HOH:O	2.29	0.45
1:I:856:TYR:HB3	1:I:864:MET:HE2	1.98	0.45
1:L:349:LEU:O	1:L:563:GLN:HB3	2.16	0.45
1:I:77:ASP:O	1:I:78:LEU:HD23	2.16	0.45
1:B:134:LEU:CD2	1:B:134:LEU:N	2.79	0.45
1:N:474:TRP:CZ2	1:N:478:VAL:HG21	2.51	0.45
1:P:592:PHE:N	1:P:592:PHE:CD1	2.85	0.45
1:E:390:SER:CB	1:E:391:HIS:CE1	3.00	0.45
1:E:336:ARG:NH2	1:E:338:GLU:OE2	2.48	0.45
1:D:778:THR:HG23	1:D:779:PRO:HD2	1.99	0.45
1:C:836:ILE:CD1	1:C:836:ILE:N	2.80	0.45
1:G:490:GLY:O	1:G:491:ALA:HB3	2.17	0.45
1:O:232:ASN:ND2	1:O:237:ARG:CG	2.80	0.45
1:B:891:VAL:HG12	1:B:891:VAL:O	2.16	0.45
1:L:373:VAL:O	1:L:374:GLN:C	2.55	0.45
1:C:789:LEU:O	1:C:792:ASP:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:506:VAL:HA	1:O:520:ILE:HG12	1.99	0.45
1:K:84:VAL:CG1	1:K:85:VAL:N	2.79	0.45
1:C:876:THR:OG1	1:C:877:PRO:HD2	2.17	0.45
1:D:856:TYR:HD2	1:D:864:MET:HE2	1.81	0.45
1:O:888:LEU:O	1:O:981:GLY:HA3	2.17	0.45
1:A:555:ALA:O	1:A:556:PHE:C	2.54	0.45
1:O:443:MET:HE3	1:O:456:TRP:HE3	1.82	0.45
1:H:1000:SER:HB2	1:H:1001:PRO:HD2	1.99	0.45
1:O:374:GLN:O	1:O:378:LEU:HG	2.17	0.45
1:C:490:GLY:O	1:C:491:ALA:HB3	2.16	0.45
1:I:427:THR:HG22	1:I:436:MET:SD	2.57	0.45
1:M:581:ASN:CB	1:M:583:ASN:HD21	2.05	0.45
1:K:218:PRO:HG3	1:K:324:GLU:HG3	1.98	0.45
1:P:214:LEU:HA	1:P:214:LEU:HD23	1.56	0.45
1:A:393:PRO:HD3	1:A:412:GLU:O	2.17	0.45
1:M:542:MET:HE2	1:M:600:GLN:NE2	2.32	0.45
1:P:927:THR:CG2	1:P:929:TYR:CE2	3.00	0.45
1:P:374:GLN:O	1:P:375:ASP:C	2.54	0.45
1:P:571:VAL:CG1	1:P:572:ASP:N	2.79	0.45
1:P:702:GLN:O	1:P:712:GLY:N	2.49	0.45
1:M:29:ALA:HB2	1:M:442:ARG:HD2	1.97	0.45
1:M:608:PHE:O	1:M:610:ASP:N	2.50	0.45
1:M:822:LEU:HD13	1:M:822:LEU:HA	1.59	0.45
1:L:892:ALA:HB3	1:L:946:TYR:HE1	1.73	0.45
1:H:194:GLY:O	1:H:198:GLU:HG3	2.17	0.45
1:J:598:ASP:O	1:J:599:ARG:C	2.55	0.45
1:P:946:TYR:HE2	1:P:982:THR:CG2	2.30	0.45
1:C:600:GLN:HE21	1:C:600:GLN:HB2	1.55	0.45
1:L:127:PHE:CE1	1:L:184:LEU:CD1	2.99	0.45
1:E:249:GLU:CG	1:E:251:ARG:NH2	2.80	0.45
1:E:778:THR:HB	1:E:887:GLN:H	1.81	0.45
1:M:301:TRP:CD1	1:M:308:LEU:CD2	3.00	0.45
1:G:427:THR:HA	1:G:436:MET:HE1	1.99	0.45
1:L:67:GLU:HG2	1:L:67:GLU:H	1.01	0.45
1:P:813:ALA:CB	1:P:815:HIS:CD2	3.00	0.45
1:A:369:GLU:O	1:A:373:VAL:HG23	2.17	0.45
1:O:782:ASP:OD1	1:O:842:TRP:HH2	1.99	0.45
1:D:114:VAL:CG1	1:D:115:PRO:N	2.80	0.45
1:L:759:ASN:OD1	1:L:761:GLN:HG3	2.16	0.45
1:E:308:LEU:HA	1:E:308:LEU:HD23	1.52	0.45
1:A:280:ASP:HB2	1:A:281:GLU:H	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:786:ARG:HG2	1:N:880:ALA:HB1	1.98	0.45
1:I:257:THR:HG23	1:I:270:GLY:O	2.17	0.45
1:I:425:ARG:NH1	1:L:285:TYR:CD1	2.84	0.45
1:N:948:PRO:O	1:N:1022:GLN:HA	2.17	0.45
1:O:14:ARG:NH1	1:O:16:TRP:CZ2	2.80	0.45
1:H:394:ASN:O	1:H:399:TYR:HE1	2.00	0.45
1:L:196:TYR:HD2	1:L:420:MET:CE	2.29	0.45
1:K:244:VAL:CG1	1:K:245:GLN:N	2.79	0.45
1:E:742:THR:CG2	1:E:760:ARG:NH1	2.80	0.45
1:M:323:ILE:N	1:M:323:ILE:CD1	2.79	0.45
1:F:419:GLY:HA2	1:G:282:ARG:HH11	1.82	0.45
1:H:409:VAL:CG1	1:H:410:VAL:N	2.79	0.45
1:N:176:PHE:O	1:N:177:LEU:O	2.34	0.45
1:A:24:LEU:HA	1:A:24:LEU:HD12	1.89	0.45
1:J:850:PHE:CD2	1:J:872:VAL:HG13	2.52	0.45
1:D:758:PHE:CE2	1:D:836:ILE:HG13	2.52	0.45
1:E:1000:SER:HB2	1:E:1001:PRO:HD2	1.99	0.45
1:F:414:ASN:HB3	3:F:1267:HOH:O	2.17	0.45
1:L:673:ALA:O	1:L:674:PRO:C	2.55	0.45
1:N:424:ASN:HB2	1:O:279:ILE:HD11	1.97	0.45
1:C:476:LYS:HD2	1:C:476:LYS:HA	1.82	0.45
1:O:351:ILE:HG23	1:O:351:ILE:HD12	1.74	0.45
1:D:572:ASP:HB3	1:D:603:MET:CB	2.47	0.45
1:P:15:ASP:C	1:P:17:GLU:H	2.19	0.45
1:G:767:GLN:CG	1:G:768:MET:N	2.79	0.45
1:M:576:ILE:CG2	1:M:577:LYS:N	2.79	0.45
1:M:105:TYR:CE1	1:M:199:ASP:HB2	2.52	0.45
1:M:199:ASP:O	1:M:416:GLU:HG2	2.17	0.45
1:M:474:TRP:HE3	1:M:475:ILE:HG12	1.82	0.45
1:H:36:TRP:HB2	1:H:325:ALA:HB3	1.98	0.45
1:P:208:ILE:O	1:P:208:ILE:HG22	2.17	0.45
1:M:653:HIS:CD2	1:M:667:GLU:CG	3.00	0.45
1:J:436:MET:CE	1:J:467:ASN:ND2	2.79	0.45
1:O:357:HIS:HE1	1:O:568:TRP:HH2	1.65	0.45
1:E:574:SER:OG	3:E:1289:HOH:O	2.11	0.45
1:G:824:GLN:HB2	1:G:824:GLN:HE21	1.36	0.45
1:N:654:TRP:CE2	1:N:666:GLY:CA	2.99	0.45
1:J:906:TYR:OH	1:J:935:ASN:HA	2.16	0.45
1:M:279:ILE:HD11	1:P:422:PRO:HB2	1.98	0.45
1:K:420:MET:HE2	1:K:420:MET:HB3	1.52	0.45
1:P:815:HIS:H	1:P:815:HIS:CD2	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:433:LEU:CB	1:J:434:PRO:HD3	2.42	0.45
1:E:125:LEU:CG	1:E:126:THR:N	2.79	0.45
1:F:85:VAL:HG13	1:F:86:VAL:N	2.31	0.45
1:O:84:VAL:CG1	1:O:93:HIS:CE1	3.00	0.45
1:J:63:PHE:CE2	1:J:70:PRO:HD3	2.52	0.45
1:B:372:MET:CE	1:B:395:HIS:HB3	2.47	0.45
1:G:499:ILE:HG22	1:G:501:PRO:HD3	1.98	0.45
1:E:653:HIS:CD2	1:E:667:GLU:CG	3.00	0.45
1:C:395:HIS:CG	1:C:396:PRO:HD2	2.51	0.45
1:E:33:PHE:HD1	1:E:326:GLU:CD	2.19	0.45
1:D:390:SER:HA	1:D:391:HIS:ND1	2.32	0.45
1:D:390:SER:CB	1:D:391:HIS:ND1	2.79	0.45
1:H:413:ALA:N	1:H:443:MET:HE1	2.31	0.45
1:I:599:ARG:HB2	1:I:600:GLN:H	1.27	0.45
1:I:927:THR:CG2	1:I:929:TYR:CE2	2.99	0.45
1:N:941:THR:HG22	1:N:943:GLU:H	1.81	0.45
1:O:786:ARG:N	3:O:1253:HOH:O	2.29	0.45
1:J:246:MET:HB3	1:J:274:PHE:CZ	2.52	0.45
1:I:515:VAL:HG21	1:L:281:GLU:OE1	2.17	0.45
1:D:499:ILE:HG22	1:D:533:LEU:HD22	1.96	0.45
1:H:130:ASP:OD1	1:H:131:GLU:N	2.50	0.45
1:M:694:LEU:HD12	1:M:694:LEU:HA	1.68	0.45
1:E:106:PRO:CG	1:E:204:ARG:NH1	2.80	0.45
1:A:59:ARG:NH2	1:A:81:ALA:HB3	2.32	0.45
1:I:410:VAL:HG22	1:I:455:ILE:HB	1.99	0.45
1:O:897:TRP:CE3	1:O:918:TRP:HB2	2.52	0.45
1:D:30:HIS:HB2	1:D:31:PRO:CD	2.45	0.45
1:K:879:PRO:O	1:K:880:ALA:C	2.55	0.45
1:E:315:LEU:HD12	1:E:315:LEU:C	2.37	0.45
1:F:446:ARG:NE	1:F:447:ASP:OD1	2.49	0.45
1:M:464:HIS:N	3:M:1221:HOH:O	2.39	0.45
1:B:518:TRP:CE3	1:B:522:LYS:HE2	2.52	0.45
1:O:518:TRP:CE3	1:O:522:LYS:HE2	2.51	0.45
1:G:424:ASN:HA	1:G:424:ASN:HD22	1.45	0.45
1:N:557:ARG:HE	1:N:641:GLU:CD	2.20	0.45
1:D:892:ALA:HB3	1:D:946:TYR:CE1	2.51	0.45
1:C:875:ASP:OD2	1:D:723:ALA:HB1	2.16	0.45
1:A:376:ILE:HG13	1:A:398:TRP:CZ3	2.52	0.45
1:E:232:ASN:N	1:E:232:ASN:OD1	2.44	0.45
1:I:110:ASN:O	1:I:113:PHE:N	2.50	0.45
1:A:155:ASN:ND2	1:A:178:ARG:HG3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:152:LEU:HD13	1:F:186:VAL:HG22	1.98	0.45
1:P:886:CYS:SG	1:P:888:LEU:CD2	3.05	0.45
1:P:790:ASP:HB2	3:P:1234:HOH:O	2.16	0.45
1:P:906:TYR:HB2	1:P:993:ILE:HD13	1.98	0.45
1:P:99:ILE:HG22	1:P:100:TYR:H	1.82	0.45
1:M:390:SER:CB	1:M:391:HIS:CE1	2.99	0.45
1:C:1020:TRP:HD1	1:C:1021:CYS:N	2.14	0.45
1:P:106:PRO:HG3	1:P:204:ARG:HG3	1.98	0.45
1:P:261:TRP:HZ3	1:P:264:GLU:O	2.00	0.45
1:P:767:GLN:CD	1:P:768:MET:H	2.17	0.45
1:K:355:ASN:HB2	1:K:568:TRP:CE3	2.52	0.45
1:C:316:HIS:HB3	1:C:322:LEU:HA	1.99	0.45
1:L:128:ASN:ND2	1:L:180:GLY:CA	2.78	0.45
1:L:131:GLU:H	1:L:131:GLU:HG3	1.32	0.45
1:L:129:VAL:CG2	1:L:182:ASN:ND2	2.80	0.45
1:K:382:ASN:HD22	1:K:617:LEU:HD21	1.76	0.45
1:K:18:ASN:HB3	1:K:21:VAL:HG23	1.98	0.45
1:K:777:LEU:HG	1:K:889:ALA:CA	2.46	0.45
1:M:301:TRP:HD1	1:M:307:ASN:O	2.00	0.45
1:E:927:THR:HG21	1:E:929:TYR:CZ	2.52	0.45
1:H:433:LEU:N	1:H:434:PRO:CD	2.80	0.45
1:P:433:LEU:O	1:P:437:SER:HB2	2.16	0.45
1:O:91:GLN:HB3	1:O:98:PRO:CD	2.43	0.45
1:P:84:VAL:CG1	1:P:85:VAL:H	2.29	0.45
1:O:360:HIS:CG	1:O:361:PRO:HD2	2.51	0.45
1:D:202:MET:CE	1:D:357:HIS:CD2	3.00	0.45
1:B:279:ILE:HD11	1:C:422:PRO:HB2	1.99	0.45
1:G:129:VAL:CG2	1:G:182:ASN:ND2	2.78	0.45
1:N:53:SER:C	1:N:54:LEU:HD23	2.37	0.45
1:A:429:ASP:HA	1:A:430:PRO:HD3	1.68	0.45
1:L:202:MET:CE	1:L:357:HIS:CD2	2.98	0.45
1:E:562:LEU:HA	1:E:562:LEU:HD23	1.83	0.45
1:O:130:ASP:OD1	1:O:131:GLU:N	2.50	0.45
1:K:390:SER:CB	1:K:391:HIS:ND1	2.80	0.45
1:C:249:GLU:CG	1:C:251:ARG:NH2	2.80	0.45
1:I:1006:GLU:HA	3:I:1275:HOH:O	2.16	0.45
1:N:155:ASN:ND2	1:N:182:ASN:OD1	2.50	0.45
1:L:836:ILE:CG2	1:L:837:THR:N	2.79	0.45
1:O:69:VAL:HG13	1:O:70:PRO:HD2	1.99	0.45
1:L:937:LEU:CD1	1:L:990:HIS:CD2	2.99	0.45
1:C:954:ASP:CB	1:D:1013:ARG:NH2	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:606:LEU:HD13	1:H:617:LEU:CD1	2.46	0.45
1:L:260:LEU:HD12	1:L:260:LEU:HA	1.87	0.45
1:E:742:THR:HG22	1:E:743:SER:N	2.31	0.45
1:E:742:THR:CG2	1:E:743:SER:N	2.79	0.45
1:L:55:ASN:HD21	1:L:211:ASP:HB3	1.81	0.45
1:O:237:ARG:HG3	1:O:237:ARG:NH1	2.31	0.45
1:D:229:THR:CG2	1:D:332:PHE:CE2	3.00	0.45
1:A:654:TRP:NE1	1:A:666:GLY:HA3	2.32	0.45
1:J:263:GLY:O	1:J:265:THR:N	2.50	0.45
1:K:84:VAL:HG12	1:K:85:VAL:O	2.16	0.45
1:P:492:ASP:HB3	1:P:499:ILE:HG23	1.98	0.45
1:J:409:VAL:CG1	1:J:410:VAL:N	2.79	0.45
1:M:287:ASP:CG	1:P:425:ARG:HH22	2.19	0.45
1:F:866:ILE:HG22	1:F:867:THR:N	2.32	0.45
1:F:326:GLU:HA	1:F:326:GLU:OE1	2.16	0.45
1:J:722:LEU:HA	1:J:722:LEU:HD23	1.63	0.45
1:L:572:ASP:OD1	1:L:603:MET:HG2	2.17	0.45
1:K:772:ASP:OD1	1:K:772:ASP:N	2.29	0.45
1:A:138:GLN:HG3	1:A:172:ASP:OD2	2.16	0.45
1:D:275:GLY:HA2	1:D:285:TYR:O	2.17	0.45
1:A:234:ASP:O	1:A:235:PHE:HB2	2.17	0.45
1:A:151:HIS:HB3	1:A:153:TRP:CZ3	2.52	0.45
1:I:861:SER:HB2	1:I:863:GLN:HG3	1.98	0.45
1:E:141:ILE:CD1	1:E:143:PHE:CE1	3.00	0.45
1:M:583:ASN:ND2	1:M:583:ASN:N	2.65	0.45
1:M:23:GLN:O	1:M:24:LEU:HD23	2.17	0.45
1:E:91:GLN:HG2	1:E:190:ARG:HH21	1.82	0.45
1:E:60:PHE:CG	1:E:61:ALA:N	2.84	0.45
1:C:460:ASN:HD21	1:C:461:GLU:HG3	1.74	0.45
1:B:40:GLU:CG	1:B:43:ARG:NH1	2.80	0.45
1:B:668:VAL:HG13	1:B:669:PRO:HD2	1.99	0.45
1:H:17:GLU:OE1	1:H:113:PHE:HD1	1.99	0.45
1:L:360:HIS:ND1	1:L:363:HIS:N	2.64	0.45
1:H:153:TRP:CD1	1:H:158:TRP:HA	2.51	0.45
1:H:84:VAL:CG1	1:H:85:VAL:N	2.79	0.45
1:G:83:THR:CG2	1:G:84:VAL:N	2.79	0.45
1:D:80:GLU:HG3	1:D:80:GLU:H	1.10	0.45
1:B:600:GLN:H	1:B:600:GLN:HG3	1.14	0.45
1:M:302:SER:O	1:M:305:ILE:N	2.50	0.45
1:E:702:GLN:O	1:E:703:PRO:C	2.55	0.45
1:H:904:GLU:HG2	1:H:909:ARG:HH22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:904:GLU:OE2	1:H:929:TYR:OH	2.29	0.45
1:H:487:GLU:HA	1:H:500:CYS:SG	2.56	0.45
1:H:685:LEU:CB	1:H:686:PRO:HD2	2.36	0.45
1:H:683:PRO:HD2	1:H:685:LEU:HD21	1.99	0.45
1:P:433:LEU:N	1:P:434:PRO:HD2	2.32	0.45
1:M:349:LEU:HB3	1:M:351:ILE:CD1	2.47	0.45
1:P:7:LEU:CD1	1:P:74:LEU:HG	2.46	0.45
1:M:654:TRP:HZ3	1:M:656:VAL:HG23	1.82	0.45
1:O:635:THR:HG21	1:O:681:GLU:HG3	1.99	0.45
1:H:737:ILE:O	1:H:738:PRO:C	2.55	0.45
1:M:111:PRO:CG	1:M:196:TYR:CE2	2.99	0.45
1:A:390:SER:CA	1:A:391:HIS:ND1	2.80	0.45
1:J:210:ARG:NH1	1:J:395:HIS:CA	2.80	0.45
1:N:36:TRP:CE3	1:N:42:ALA:CB	3.00	0.45
1:N:40:GLU:O	1:N:41:GLU:C	2.53	0.45
1:M:409:VAL:CG1	1:M:410:VAL:N	2.80	0.45
1:O:900:LEU:HD23	1:O:900:LEU:HA	1.46	0.45
1:O:69:VAL:CG1	1:O:70:PRO:N	2.80	0.45
1:J:767:GLN:CG	1:J:768:MET:N	2.79	0.45
1:F:271:THR:CG2	1:F:272:ALA:N	2.80	0.45
1:F:859:ASP:O	1:F:861:SER:N	2.50	0.45
1:E:815:HIS:CD2	1:E:815:HIS:N	2.85	0.45
1:E:400:THR:O	1:E:404:ARG:HB2	2.18	0.45
1:C:856:TYR:CD2	1:C:864:MET:CE	2.99	0.45
1:K:883:GLY:HA3	1:K:986:ILE:O	2.17	0.45
1:D:502:MET:HB2	1:D:537:GLU:HB2	1.99	0.45
1:E:654:TRP:NE1	1:E:666:GLY:HA3	2.32	0.45
1:F:933:SER:O	1:F:934:GLU:C	2.56	0.45
1:L:490:GLY:O	1:L:491:ALA:HB3	2.16	0.45
1:K:961:ARG:NE	1:K:978:ALA:HB1	2.32	0.45
1:M:810:TRP:CZ2	1:M:991:MET:CE	3.00	0.45
1:F:995:GLY:N	1:F:1002:SER:OG	2.29	0.45
1:A:190:ARG:HD3	1:A:191:TRP:CZ2	2.51	0.45
1:C:526:LEU:HA	1:C:526:LEU:HD23	1.80	0.45
1:M:785:THR:HB	3:M:1245:HOH:O	2.16	0.45
1:J:129:VAL:HG23	1:J:182:ASN:ND2	2.33	0.44
1:F:7:LEU:HD11	1:F:74:LEU:HD21	1.99	0.44
1:P:787:ALA:O	1:P:933:SER:HB2	2.17	0.44
1:P:502:MET:HB2	1:P:537:GLU:HB2	1.98	0.44
1:H:36:TRP:CD1	1:H:41:GLU:CB	2.99	0.44
1:H:36:TRP:CD2	1:H:42:ALA:CB	2.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:36:TRP:HD1	1:H:41:GLU:HB3	1.79	0.44
1:K:839:ALA:HA	1:K:852:SER:O	2.17	0.44
1:E:590:GLY:CA	1:E:597:ASN:ND2	2.80	0.44
1:H:118:ASN:O	1:H:119:PRO:C	2.53	0.44
1:M:767:GLN:CD	1:M:768:MET:H	2.19	0.44
1:E:73:TRP:O	1:E:183:ARG:NH2	2.49	0.44
1:H:110:ASN:O	1:H:113:PHE:HB2	2.17	0.44
1:L:36:TRP:CD1	1:L:41:GLU:CB	3.00	0.44
1:J:775:GLN:C	1:J:776:LEU:HD23	2.38	0.44
1:A:43:ARG:HD2	1:A:261:TRP:CE2	2.52	0.44
1:M:989:PHE:CE2	1:M:1014:TYR:HB3	2.52	0.44
1:N:245:GLN:HG2	1:N:288:ARG:CG	2.37	0.44
1:K:18:ASN:ND2	1:K:21:VAL:CG2	2.80	0.44
1:M:261:TRP:HZ3	1:M:264:GLU:O	2.00	0.44
1:L:830:LEU:O	1:L:831:ALA:C	2.55	0.44
1:M:395:HIS:HA	1:M:396:PRO:HD3	1.70	0.44
1:M:786:ARG:CZ	1:M:789:LEU:HD11	2.47	0.44
1:G:377:LEU:O	1:G:381:GLN:HB2	2.17	0.44
1:L:210:ARG:NH1	1:L:395:HIS:CA	2.79	0.44
1:A:369:GLU:HG3	1:A:397:LEU:CD2	2.42	0.44
1:P:331:GLY:HA2	3:P:1212:HOH:O	2.16	0.44
1:E:387:VAL:CG2	1:E:388:ARG:N	2.79	0.44
1:H:647:SER:HB2	1:H:650:GLU:HB2	1.98	0.44
1:H:622:HIS:HD2	1:H:625:GLN:OE1	2.00	0.44
1:H:3:ILE:O	1:H:6:SER:HB3	2.17	0.44
1:I:856:TYR:CD2	1:I:864:MET:CE	2.99	0.44
1:O:937:LEU:HD12	1:O:957:PHE:O	2.18	0.44
1:N:36:TRP:CD2	1:N:42:ALA:CB	3.01	0.44
1:A:682:LEU:CB	1:A:683:PRO:HD2	2.46	0.44
1:L:897:TRP:CD1	1:L:941:THR:CG2	2.99	0.44
1:H:123:TYR:HD1	1:H:123:TYR:H	1.64	0.44
1:C:941:THR:CG2	1:C:942:ARG:N	2.80	0.44
1:H:515:VAL:N	1:H:516:PRO:CD	2.80	0.44
1:G:567:VAL:HG23	3:G:1214:HOH:O	2.17	0.44
1:N:455:ILE:CG2	1:N:485:GLN:HG2	2.48	0.44
1:J:132:SER:C	1:J:134:LEU:H	2.20	0.44
1:L:934:GLU:O	1:L:935:ASN:HB3	2.17	0.44
1:L:934:GLU:CG	1:L:935:ASN:N	2.79	0.44
1:H:106:PRO:CG	1:H:204:ARG:HH11	2.30	0.44
1:L:807:VAL:CG1	1:L:808:GLU:N	2.79	0.44
1:D:66:PRO:HB3	1:D:187:MET:HE1	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:514:ALA:C	1:L:515:VAL:HG22	2.37	0.44
1:J:44:THR:OG1	1:J:46:ARG:HG3	2.17	0.44
1:N:807:VAL:CG1	1:N:808:GLU:N	2.79	0.44
1:B:877:PRO:O	1:B:878:HIS:C	2.55	0.44
1:B:505:ARG:NE	3:B:1251:HOH:O	2.30	0.44
1:F:409:VAL:CG1	1:F:410:VAL:N	2.80	0.44
1:G:588:TYR:N	1:G:591:ASP:OD2	2.42	0.44
1:N:713:HIS:NE2	3:N:1259:HOH:O	2.36	0.44
1:I:616:ALA:O	1:I:617:LEU:C	2.53	0.44
1:G:1005:ALA:O	1:G:1007:PHE:N	2.50	0.44
1:O:536:CYS:O	1:O:537:GLU:HG3	2.17	0.44
1:P:612:THR:HA	1:P:613:PRO:HD3	1.79	0.44
1:A:400:THR:O	1:A:404:ARG:HG3	2.17	0.44
1:J:559:TYR:CD1	1:J:559:TYR:N	2.85	0.44
1:M:158:TRP:CZ2	1:M:160:GLY:CA	3.00	0.44
1:E:27:LEU:N	1:E:27:LEU:CD2	2.79	0.44
1:P:321:THR:O	1:P:323:ILE:HD12	2.16	0.44
1:A:412:GLU:HB2	1:A:457:SER:HB3	1.98	0.44
1:E:35:SER:O	1:E:36:TRP:C	2.55	0.44
1:M:423:MET:HG2	1:P:282:ARG:HG3	1.99	0.44
1:E:84:VAL:CG1	1:E:85:VAL:N	2.79	0.44
1:M:927:THR:HG21	1:M:929:TYR:CZ	2.53	0.44
1:K:267:VAL:O	1:K:268:ALA:HB2	2.17	0.44
1:L:161:TYR:CD2	1:L:162:GLY:N	2.86	0.44
1:H:177:LEU:HD22	1:H:177:LEU:HA	1.71	0.44
1:H:393:PRO:HD3	1:H:412:GLU:O	2.16	0.44
1:H:85:VAL:CG1	1:H:86:VAL:N	2.79	0.44
1:P:127:PHE:CE1	1:P:184:LEU:HD12	2.53	0.44
1:L:317:THR:O	1:L:318:ALA:C	2.55	0.44
1:B:419:GLY:C	1:C:282:ARG:HH11	2.19	0.44
1:C:40:GLU:CG	1:C:43:ARG:NH1	2.79	0.44
1:N:936:GLY:O	1:N:937:LEU:C	2.55	0.44
1:J:581:ASN:HB3	1:J:583:ASN:HD22	1.82	0.44
1:N:377:LEU:HD23	1:N:708:TRP:CB	2.48	0.44
1:E:5:ASP:OD2	1:E:157:ARG:HB3	2.17	0.44
1:F:84:VAL:CG1	1:F:85:VAL:N	2.80	0.44
1:F:86:VAL:HA	1:F:87:PRO:C	2.37	0.44
1:A:316:HIS:HB2	1:A:321:THR:O	2.17	0.44
1:P:456:TRP:NE1	1:P:482:ARG:CG	2.80	0.44
1:P:409:VAL:CG1	1:P:410:VAL:N	2.79	0.44
1:M:904:GLU:HG3	1:M:906:TYR:HE1	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:685:LEU:CB	1:B:686:PRO:HD2	2.40	0.44
1:P:587:ALA:HB1	1:P:591:ASP:OD2	2.18	0.44
1:F:79:PRO:HD2	1:F:80:GLU:HG3	1.98	0.44
1:E:353:GLY:C	1:E:566:PHE:HA	2.37	0.44
1:J:531:ARG:HB3	1:J:532:PRO:HD2	1.99	0.44
1:O:287:ASP:N	1:O:287:ASP:OD1	2.37	0.44
1:B:422:PRO:HB3	1:C:279:ILE:HD11	1.99	0.44
1:B:425:ARG:HH11	1:B:425:ARG:HD2	1.59	0.44
1:D:1020:TRP:CD1	1:D:1021:CYS:N	2.82	0.44
1:A:232:ASN:ND2	1:A:237:ARG:HG2	2.32	0.44
1:N:129:VAL:CG2	1:N:182:ASN:ND2	2.80	0.44
1:A:557:ARG:CZ	1:A:628:GLN:NE2	2.80	0.44
1:A:73:TRP:HA	1:A:76:CYS:O	2.17	0.44
1:K:894:ARG:HH12	1:K:920:LEU:CA	2.30	0.44
1:E:225:PHE:HA	1:E:243:GLU:O	2.17	0.44
1:J:14:ARG:NH1	1:J:16:TRP:CZ2	2.85	0.44
1:F:861:SER:CB	1:F:863:GLN:HG3	2.47	0.44
1:C:770:ILE:HD13	1:C:1022:GLN:HG2	1.99	0.44
1:L:442:ARG:HD3	3:L:1250:HOH:O	2.17	0.44
1:N:35:SER:HB3	1:N:50:GLN:CB	2.47	0.44
1:D:42:ALA:O	1:D:310:ARG:NH1	2.51	0.44
1:E:514:ALA:C	1:E:516:PRO:HD3	2.37	0.44
1:D:782:ASP:HB2	1:D:842:TRP:CZ2	2.52	0.44
1:K:900:LEU:HD12	1:K:939:CYS:HB2	1.99	0.44
1:D:595:THR:CG2	1:D:596:PRO:HA	2.48	0.44
1:H:807:VAL:CG1	1:H:808:GLU:N	2.80	0.44
1:F:673:ALA:O	1:F:674:PRO:C	2.55	0.44
1:D:722:LEU:HD23	1:D:722:LEU:HA	1.68	0.44
1:D:378:LEU:HD23	1:D:378:LEU:HA	1.79	0.44
1:C:123:TYR:N	1:C:123:TYR:CD1	2.84	0.44
1:J:882:ILE:O	1:J:882:ILE:HG22	2.15	0.44
1:E:958:ASN:O	1:E:958:ASN:OD1	2.35	0.44
1:J:420:MET:HB3	1:J:420:MET:HE2	1.64	0.44
1:E:621:LYS:HE2	1:E:717:TRP:HZ3	1.83	0.44
1:P:840:HIS:HE1	3:P:1232:HOH:O	1.98	0.44
1:M:152:LEU:CD1	1:M:153:TRP:N	2.79	0.44
1:P:36:TRP:CD2	1:P:42:ALA:CB	3.00	0.44
1:E:260:LEU:HA	1:E:260:LEU:HD12	1.47	0.44
1:K:742:THR:CG2	1:K:743:SER:N	2.81	0.44
1:E:91:GLN:HB3	1:E:96:ASP:O	2.18	0.44
1:M:607:VAL:HG12	1:M:613:PRO:CA	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:651:LEU:HD12	1:B:668:VAL:O	2.17	0.44
1:O:100:TYR:CE2	1:O:602:CYS:CB	3.00	0.44
1:P:261:TRP:CZ3	1:P:266:GLN:CB	3.00	0.44
1:K:261:TRP:CH2	1:K:266:GLN:HB2	2.53	0.44
1:K:1020:TRP:HD1	1:K:1021:CYS:H	1.65	0.44
1:L:151:HIS:HB3	1:L:153:TRP:CZ3	2.53	0.44
1:O:657:ALA:HB2	1:O:662:PRO:HA	1.99	0.44
1:K:600:GLN:HB2	1:K:600:GLN:HE21	1.19	0.44
1:N:239:VAL:HG12	1:N:240:LEU:O	2.16	0.44
1:J:84:VAL:CG1	1:J:85:VAL:N	2.79	0.44
1:F:356:ARG:HG2	1:F:356:ARG:O	2.17	0.44
1:I:246:MET:HE3	1:I:287:ASP:HB2	1.98	0.44
1:D:1005:ALA:O	1:D:1006:GLU:C	2.55	0.44
1:A:956:GLN:O	1:A:987:ASP:N	2.45	0.44
1:F:878:HIS:ND1	1:F:878:HIS:N	2.65	0.44
1:G:375:ASP:CG	1:G:570:TRP:HE1	2.21	0.44
1:L:594:ASP:O	1:L:597:ASN:HB3	2.18	0.44
1:D:18:ASN:CG	1:D:21:VAL:HG23	2.36	0.44
1:B:655:MET:O	1:B:696:LEU:HD12	2.18	0.44
1:C:764:PHE:CE1	1:C:781:ARG:HB3	2.52	0.44
1:B:246:MET:HB3	1:B:274:PHE:CZ	2.52	0.44
1:F:24:LEU:CB	1:F:161:TYR:HB3	2.48	0.44
1:I:894:ARG:HH12	1:I:919:ASP:C	2.20	0.44
1:H:400:THR:CG2	1:H:404:ARG:NH1	2.81	0.44
1:H:701:VAL:HG12	1:H:702:GLN:N	2.32	0.44
1:O:524:LEU:HD11	1:O:562:LEU:HD21	1.99	0.44
1:D:661:LYS:HA	1:D:662:PRO:HD2	1.75	0.44
1:C:906:TYR:OH	1:C:935:ASN:HA	2.17	0.44
1:E:870:VAL:CG1	1:E:871:GLU:N	2.80	0.44
1:M:45:ASP:O	1:M:46:ARG:C	2.54	0.44
1:I:837:THR:HG22	1:I:837:THR:O	2.17	0.44
1:K:338:GLU:N	1:K:341:LEU:O	2.51	0.44
1:K:945:ASN:OD1	1:K:950:GLN:HB2	2.17	0.44
1:J:637:GLU:O	1:J:637:GLU:HG2	2.16	0.44
1:J:167:LEU:HA	1:J:168:PRO:HD3	1.79	0.44
1:F:636:ILE:N	1:F:680:ILE:O	2.46	0.44
1:N:699:ARG:CZ	1:N:714:ILE:HD11	2.47	0.44
1:K:129:VAL:HG23	1:K:182:ASN:HD21	1.82	0.44
1:D:590:GLY:C	1:D:592:PHE:H	2.20	0.44
1:K:634:GLN:O	1:K:682:LEU:HD12	2.17	0.44
1:C:964:GLN:O	1:C:965:GLN:C	2.54	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:323:ILE:N	1:E:323:ILE:HD12	2.31	0.44
1:F:437:SER:O	1:F:441:THR:HG23	2.18	0.44
1:C:810:TRP:CH2	1:C:991:MET:HE1	2.51	0.44
1:I:352:ARG:CZ	1:I:626:PHE:CE1	2.99	0.44
1:J:91:GLN:OE1	1:J:91:GLN:N	2.50	0.44
1:G:471:LEU:O	1:G:475:ILE:HG13	2.18	0.44
1:E:317:THR:O	1:E:319:ASP:N	2.51	0.44
1:C:536:CYS:O	1:C:537:GLU:HG3	2.17	0.44
1:G:234:ASP:N	1:G:234:ASP:OD1	2.50	0.44
1:A:630:ARG:HB3	1:A:630:ARG:HE	1.43	0.44
1:A:91:GLN:HB3	1:A:98:PRO:HD3	1.98	0.44
1:F:996:ASP:O	1:F:997:ASP:HB3	2.17	0.44
1:E:15:ASP:CB	1:E:161:TYR:CE2	3.00	0.44
1:P:14:ARG:NH1	1:P:16:TRP:CZ2	2.78	0.44
1:P:159:VAL:HG11	1:P:173:LEU:CD2	2.47	0.44
1:M:303:ALA:HB1	1:M:406:GLY:O	2.18	0.44
1:F:36:TRP:CB	1:F:42:ALA:HB2	2.48	0.44
1:M:652:LEU:HB3	1:M:668:VAL:O	2.17	0.44
1:E:12:GLN:HA	1:E:12:GLN:OE1	2.17	0.44
1:E:188:VAL:CG2	1:E:208:ILE:HD11	2.47	0.44
1:E:69:VAL:CG1	1:E:70:PRO:N	2.80	0.44
1:G:573:GLN:NE2	3:G:1255:HOH:O	2.49	0.44
1:M:356:ARG:NH1	1:M:356:ARG:CG	2.80	0.44
1:K:354:VAL:HG22	1:K:355:ASN:N	2.31	0.44
1:P:55:ASN:HB3	1:P:86:VAL:O	2.17	0.44
1:E:949:HIS:N	1:E:949:HIS:ND1	2.66	0.44
1:E:778:THR:HG22	1:E:886:CYS:HA	1.98	0.44
1:L:654:TRP:CE3	1:L:655:MET:N	2.86	0.44
1:K:368:ASP:O	1:K:369:GLU:C	2.54	0.44
1:M:246:MET:CG	1:M:274:PHE:CE2	3.01	0.44
1:K:125:LEU:CD1	1:K:126:THR:N	2.79	0.44
1:A:397:LEU:HD12	1:A:397:LEU:HA	1.75	0.44
1:D:529:GLU:OE1	1:D:530:THR:N	2.51	0.44
1:F:86:VAL:CG1	1:F:87:PRO:HA	2.44	0.44
1:M:897:TRP:HD1	1:M:941:THR:HG23	1.82	0.44
1:P:895:VAL:HG12	1:P:896:ASN:N	2.30	0.44
1:L:499:ILE:HG13	1:L:532:PRO:O	2.18	0.44
1:N:902:PRO:HG3	1:N:918:TRP:CZ3	2.53	0.44
1:K:932:PRO:HG2	1:K:970:THR:O	2.18	0.44
1:I:904:GLU:HG2	1:I:909:ARG:NH2	2.29	0.44
1:P:227:VAL:CG1	1:P:228:ALA:N	2.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:767:GLN:CD	1:L:768:MET:H	2.15	0.44
1:L:571:VAL:HG21	1:L:611:ARG:NH2	2.33	0.44
1:L:246:MET:CE	1:L:287:ASP:HB3	2.48	0.44
1:O:878:HIS:NE2	1:O:1010:SER:CB	2.81	0.44
1:M:870:VAL:CG1	1:M:871:GLU:N	2.79	0.44
1:D:287:ASP:OD1	1:D:287:ASP:N	2.32	0.44
1:L:813:ALA:CB	1:L:815:HIS:CD2	3.00	0.44
1:G:658:LEU:HD12	1:G:659:ASP:H	1.82	0.44
1:F:767:GLN:CG	1:F:768:MET:N	2.79	0.44
1:H:336:ARG:HH21	1:H:338:GLU:CD	2.19	0.44
1:K:706:THR:HG23	3:K:1251:HOH:O	2.18	0.44
1:G:870:VAL:CG1	1:G:871:GLU:N	2.81	0.44
1:K:337:ILE:O	1:K:337:ILE:HG22	2.17	0.44
1:G:158:TRP:CD1	1:G:159:VAL:N	2.85	0.44
1:J:749:ILE:O	1:J:755:ARG:HA	2.18	0.44
1:O:237:ARG:HH11	1:O:237:ARG:CG	2.31	0.44
1:B:18:ASN:N	1:B:193:ASP:OD2	2.42	0.44
1:O:370:GLN:O	1:O:373:VAL:HG23	2.17	0.44
1:F:223:SER:O	1:F:224:ASP:HB2	2.17	0.44
1:M:842:TRP:CZ3	1:M:852:SER:HB3	2.52	0.44
1:K:961:ARG:HB3	1:K:978:ALA:HB1	1.99	0.44
1:C:473:ARG:O	1:C:473:ARG:HD2	2.17	0.44
1:J:422:PRO:HG2	1:K:279:ILE:CD1	2.48	0.44
1:I:380:LYS:HE3	1:I:406:GLY:O	2.17	0.44
1:F:673:ALA:O	1:F:676:GLY:N	2.50	0.44
1:A:165:SER:O	1:A:209:PHE:HZ	2.00	0.44
1:M:635:THR:HG23	1:M:681:GLU:HG3	2.00	0.44
1:D:400:THR:O	1:D:404:ARG:HD2	2.18	0.44
1:K:19:PRO:HA	3:K:1222:HOH:O	2.17	0.44
1:K:619:GLU:HA	1:K:619:GLU:OE1	2.17	0.44
1:I:107:ILE:HD13	1:I:107:ILE:HG23	1.75	0.44
1:F:13:ARG:HG3	1:F:13:ARG:H	1.65	0.44
1:L:908:ASP:N	1:L:908:ASP:OD1	2.48	0.44
1:O:176:PHE:CD1	1:O:176:PHE:N	2.84	0.44
1:I:356:ARG:HG2	1:I:356:ARG:O	2.16	0.44
1:B:490:GLY:O	1:B:491:ALA:HB3	2.17	0.44
1:A:872:VAL:O	1:A:873:ALA:C	2.54	0.44
1:M:69:VAL:HA	1:M:70:PRO:HD3	1.88	0.44
1:P:272:ALA:HA	1:P:273:PRO:HD3	1.64	0.44
1:M:36:TRP:CZ2	1:M:42:ALA:HA	2.53	0.44
1:H:427:THR:HA	1:H:436:MET:HE2	1.93	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:147:ASN:HA	1:M:148:SER:HA	1.62	0.44
1:P:383:ASN:ND2	3:P:1246:HOH:O	2.47	0.44
1:P:361:PRO:HB3	1:P:609:ALA:HB1	1.99	0.44
1:M:443:MET:O	1:M:447:ASP:N	2.37	0.44
1:H:114:VAL:CG1	1:H:115:PRO:N	2.80	0.44
1:B:40:GLU:O	1:B:43:ARG:N	2.51	0.44
1:P:767:GLN:HG3	1:P:768:MET:N	2.32	0.44
1:P:647:SER:HB2	1:P:650:GLU:HB2	1.99	0.44
1:N:282:ARG:O	1:O:421:VAL:HG13	2.18	0.44
1:A:937:LEU:HG	1:A:938:ARG:H	1.82	0.44
1:K:832:ASP:O	1:K:833:ALA:HB2	2.17	0.44
1:M:747:PHE:CD2	1:M:827:ALA:HB2	2.53	0.44
1:P:876:THR:O	1:P:877:PRO:C	2.55	0.44
1:J:651:LEU:HD12	1:J:652:LEU:N	2.33	0.44
1:M:683:PRO:O	1:M:684:GLU:C	2.54	0.44
1:P:18:ASN:O	1:P:21:VAL:O	2.35	0.44
1:G:324:GLU:HG3	1:G:325:ALA:N	2.32	0.44
1:K:473:ARG:O	1:K:476:LYS:HB2	2.18	0.44
1:O:18:ASN:N	1:O:193:ASP:OD2	2.50	0.44
1:O:635:THR:HG23	1:O:681:GLU:CA	2.45	0.44
1:O:696:LEU:O	1:O:719:GLN:HA	2.17	0.44
1:D:274:PHE:HB3	1:D:286:ALA:O	2.18	0.44
1:D:702:GLN:O	1:D:703:PRO:C	2.55	0.44
1:E:844:HIS:ND1	1:E:845:GLN:HG3	2.32	0.44
1:K:378:LEU:HB2	1:K:570:TRP:CZ2	2.52	0.44
1:P:856:TYR:CD1	1:P:856:TYR:N	2.85	0.44
1:F:166:ARG:HG3	1:F:392:TYR:CB	2.46	0.44
1:E:28:ALA:O	1:E:30:HIS:HD2	2.01	0.44
1:F:747:PHE:CZ	1:F:760:ARG:CD	3.01	0.44
1:J:379:MET:O	1:J:380:LYS:C	2.55	0.44
1:L:84:VAL:CG1	1:L:85:VAL:N	2.79	0.44
1:J:394:ASN:HB3	1:J:395:HIS:H	1.62	0.44
1:L:173:LEU:HA	1:L:173:LEU:HD23	1.61	0.44
1:B:360:HIS:HE1	1:B:362:LEU:HB2	1.82	0.44
1:K:129:VAL:CG2	1:K:182:ASN:ND2	2.81	0.44
1:H:556:PHE:CD2	1:H:564:GLY:HA2	2.53	0.44
1:A:285:TYR:CB	1:A:288:ARG:HB2	2.46	0.44
1:N:6:SER:O	1:N:9:VAL:N	2.49	0.44
1:N:473:ARG:O	1:N:473:ARG:HD3	2.18	0.44
1:M:1012:GLY:C	1:M:1013:ARG:HG3	2.38	0.44
1:P:499:ILE:HG13	1:P:532:PRO:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:536:CYS:C	1:C:537:GLU:HG3	2.38	0.44
1:E:540:HIS:HD2	1:E:568:TRP:HD1	1.65	0.44
1:A:944:LEU:O	1:A:950:GLN:HA	2.17	0.44
1:F:387:VAL:HG22	1:F:388:ARG:N	2.32	0.44
1:L:950:GLN:HE21	1:L:950:GLN:HB2	1.56	0.44
1:G:118:ASN:O	1:G:119:PRO:C	2.56	0.44
1:E:883:GLY:HA3	1:E:987:ASP:HA	1.98	0.44
1:B:941:THR:HG22	1:B:942:ARG:N	2.32	0.44
1:G:301:TRP:CE3	1:G:333:ARG:HG2	2.53	0.44
1:B:214:LEU:HA	1:B:214:LEU:HD22	1.88	0.44
1:C:575:LEU:O	1:C:586:SER:HA	2.17	0.44
1:J:577:LYS:O	1:J:585:TRP:N	2.48	0.44
1:E:140:ARG:HG2	1:E:141:ILE:N	2.33	0.44
1:E:747:PHE:HB2	1:E:758:PHE:HB2	2.00	0.44
1:M:653:HIS:CD2	1:M:667:GLU:CB	3.00	0.44
1:M:173:LEU:C	1:M:177:LEU:HG	2.37	0.44
1:M:698:VAL:HG22	1:M:718:GLN:O	2.18	0.44
1:H:460:ASN:ND2	1:H:461:GLU:HG3	2.33	0.44
1:K:232:ASN:O	1:K:234:ASP:N	2.51	0.44
1:C:102:ASN:N	1:C:598:ASP:OD2	2.51	0.44
1:M:260:LEU:HA	1:M:260:LEU:HD12	1.49	0.44
1:E:579:ASP:CG	1:E:583:ASN:H	2.18	0.44
1:B:418:HIS:O	1:C:282:ARG:HD2	2.17	0.44
1:M:551:LYS:O	1:M:552:TYR:C	2.53	0.44
1:P:475:ILE:O	1:P:479:ASP:O	2.36	0.44
1:E:409:VAL:CG1	1:E:410:VAL:N	2.80	0.44
1:E:408:TYR:HB3	1:E:454:ILE:CD1	2.47	0.44
1:E:934:GLU:O	1:E:935:ASN:HB3	2.17	0.44
1:P:229:THR:CG2	1:P:332:PHE:CE2	3.01	0.44
1:P:345:ASN:N	1:P:345:ASN:OD1	2.50	0.44
1:N:370:GLN:O	1:N:371:THR:O	2.34	0.44
1:E:366:VAL:HG12	1:E:367:MET:N	2.33	0.44
1:O:441:THR:HG22	1:O:474:TRP:CH2	2.52	0.44
1:H:806:TRP:CZ3	1:H:809:ARG:NH2	2.85	0.44
1:A:653:HIS:CD2	1:A:667:GLU:CB	2.99	0.44
1:G:895:VAL:O	1:G:919:ASP:HA	2.18	0.44
1:G:226:HIS:CD2	1:G:226:HIS:N	2.84	0.44
1:C:249:GLU:CB	1:C:251:ARG:NH1	2.79	0.44
1:M:110:ASN:N	1:M:111:PRO:CD	2.80	0.44
1:N:152:LEU:CG	1:N:153:TRP:N	2.80	0.44
1:I:658:LEU:O	1:I:661:LYS:N	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:336:ARG:HH21	1:N:338:GLU:CD	2.21	0.44
1:B:627:PHE:C	1:B:628:GLN:HE21	2.20	0.44
1:N:367:MET:HE2	1:N:372:MET:HG2	1.99	0.44
1:L:454:ILE:HG13	1:L:455:ILE:HG13	1.99	0.44
1:E:443:MET:CE	1:E:456:TRP:CE3	2.98	0.44
1:C:835:LEU:C	1:C:836:ILE:HD12	2.38	0.44
1:P:531:ARG:O	1:P:561:ARG:NH1	2.30	0.44
1:F:352:ARG:O	1:F:385:ASN:HB2	2.18	0.44
1:O:873:ALA:O	1:O:876:THR:HG22	2.17	0.44
1:G:350:LEU:HD12	1:G:351:ILE:H	1.83	0.44
1:K:764:PHE:O	1:K:766:SER:N	2.51	0.44
1:F:89:ASN:ND2	1:F:205:MET:HB3	2.33	0.44
1:H:303:ALA:HB1	1:H:406:GLY:O	2.18	0.44
1:F:966:GLN:OE1	1:F:977:HIS:N	2.42	0.44
1:F:850:PHE:HD1	1:F:872:VAL:HG13	1.83	0.44
1:L:11:LEU:HD23	1:L:11:LEU:N	2.33	0.44
1:O:214:LEU:HA	1:O:214:LEU:HD23	1.67	0.44
1:L:726:LEU:HD23	1:L:726:LEU:HA	1.86	0.44
1:M:69:VAL:HG21	1:M:122:CYS:SG	2.57	0.44
1:M:67:GLU:H	1:M:67:GLU:HG2	1.02	0.44
1:E:161:TYR:CD1	1:E:162:GLY:N	2.76	0.44
1:E:34:ALA:CB	1:E:36:TRP:CZ3	2.98	0.44
1:M:167:LEU:HB3	1:M:168:PRO:HD2	1.98	0.44
1:M:353:GLY:O	1:M:567:VAL:N	2.47	0.44
1:E:114:VAL:HG22	1:E:191:TRP:CB	2.46	0.44
1:P:423:MET:O	1:P:462:SER:O	2.35	0.44
1:P:198:GLU:CG	1:P:439:ARG:HH12	2.30	0.44
1:M:822:LEU:HD12	1:M:823:LEU:H	1.80	0.44
1:I:66:PRO:O	1:I:69:VAL:HG23	2.17	0.44
1:M:73:TRP:HZ2	1:M:123:TYR:O	2.01	0.44
1:H:390:SER:CA	1:H:391:HIS:ND1	2.78	0.44
1:C:429:ASP:HA	1:C:430:PRO:HD3	1.88	0.44
1:L:315:LEU:C	1:L:315:LEU:HD12	2.37	0.44
1:D:354:VAL:HG13	1:D:379:MET:HE1	1.99	0.44
1:E:262:GLN:O	1:E:262:GLN:HG2	2.18	0.44
1:E:409:VAL:HG12	1:E:410:VAL:N	2.31	0.44
1:F:570:TRP:CD1	1:F:571:VAL:HG22	2.52	0.44
1:H:377:LEU:HD22	1:H:708:TRP:HA	1.98	0.44
1:A:99:ILE:HG22	1:A:100:TYR:N	2.33	0.44
1:G:307:ASN:C	1:G:308:LEU:HD23	2.37	0.44
1:G:36:TRP:CE3	1:G:42:ALA:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:868:VAL:HB	1:B:1016:TYR:CD1	2.52	0.44
1:A:237:ARG:HD2	1:A:296:GLU:HG2	1.99	0.44
1:N:571:VAL:HG22	1:N:609:ALA:HA	1.97	0.44
1:N:881:ARG:HD3	1:N:987:ASP:OD2	2.18	0.44
1:N:36:TRP:CD2	1:N:42:ALA:HA	2.53	0.44
1:H:394:ASN:O	1:H:395:HIS:C	2.54	0.44
1:I:129:VAL:CG2	1:I:182:ASN:HD22	2.29	0.44
1:L:895:VAL:CG1	1:L:896:ASN:N	2.80	0.44
1:D:499:ILE:HG21	1:D:533:LEU:HD22	1.98	0.44
1:A:14:ARG:HH11	1:A:14:ARG:HG3	1.81	0.44
1:F:502:MET:CB	1:F:537:GLU:HB2	2.47	0.44
1:H:232:ASN:ND2	1:H:234:ASP:OD1	2.50	0.44
1:L:211:ASP:N	1:L:211:ASP:OD1	2.45	0.44
1:L:292:ARG:HG3	1:L:292:ARG:NH1	2.32	0.44
1:F:418:HIS:O	1:G:282:ARG:HD3	2.17	0.44
1:L:685:LEU:HA	1:L:686:PRO:HD3	1.59	0.44
1:L:232:ASN:ND2	1:L:234:ASP:OD1	2.50	0.44
1:M:313:VAL:O	1:M:313:VAL:HG12	2.18	0.44
1:N:127:PHE:CE1	1:N:184:LEU:CD1	3.01	0.44
1:N:70:PRO:HB2	1:N:72:SER:OG	2.17	0.44
1:K:377:LEU:CD2	1:K:708:TRP:HA	2.47	0.44
1:I:500:CYS:HA	1:I:534:ILE:O	2.17	0.44
1:A:349:LEU:HD13	1:A:351:ILE:CD1	2.48	0.44
1:B:612:THR:HA	1:B:613:PRO:HD3	1.83	0.44
1:F:749:ILE:HG22	1:F:750:GLU:N	2.32	0.44
1:K:83:THR:C	1:K:84:VAL:HG23	2.38	0.44
1:A:376:ILE:HD13	1:A:376:ILE:HG21	1.75	0.44
1:P:65:ALA:HB1	1:P:66:PRO:HD2	1.98	0.44
1:F:824:GLN:O	1:F:838:THR:HA	2.18	0.44
1:F:833:ALA:HB1	1:F:858:ILE:O	2.17	0.44
1:D:409:VAL:CG1	1:D:410:VAL:N	2.80	0.44
1:J:147:ASN:HA	1:J:148:SER:HA	1.57	0.44
1:C:612:THR:HA	1:C:613:PRO:HD3	1.78	0.44
1:P:529:GLU:HG2	3:P:1266:HOH:O	2.18	0.44
1:G:765:LEU:HG	1:G:765:LEU:O	2.17	0.44
1:G:92:MET:O	1:G:93:HIS:HD2	2.01	0.44
1:F:152:LEU:HA	1:F:152:LEU:HD12	1.59	0.44
1:K:40:GLU:O	1:K:43:ARG:N	2.50	0.44
1:P:352:ARG:CD	1:P:626:PHE:CE1	3.00	0.44
1:M:224:ASP:O	1:M:225:PHE:HB3	2.18	0.44
1:E:35:SER:HB3	1:E:50:GLN:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:91:GLN:CG	1:M:190:ARG:NH2	2.81	0.44
1:P:387:VAL:CG2	1:P:388:ARG:N	2.80	0.44
1:H:36:TRP:CD2	1:H:42:ALA:HA	2.52	0.44
1:L:393:PRO:HD2	1:L:414:ASN:HB2	1.99	0.44
1:L:1018:LEU:CD2	1:L:1019:VAL:H	2.22	0.44
1:D:100:TYR:CE2	1:D:598:ASP:HB2	2.52	0.44
1:E:959:ILE:H	1:E:959:ILE:HG22	1.50	0.44
1:H:959:ILE:CG1	1:H:984:LEU:HD12	2.48	0.44
1:O:424:ASN:O	1:O:426:LEU:N	2.50	0.44
1:H:99:ILE:HG22	1:H:100:TYR:N	2.32	0.44
1:B:37:ARG:HG3	1:B:50:GLN:NE2	2.33	0.44
1:I:63:PHE:CB	1:I:64:PRO:HD2	2.35	0.44
1:O:54:LEU:HB2	1:O:212:VAL:HG12	2.00	0.44
1:N:701:VAL:HG12	1:N:712:GLY:HA2	1.99	0.44
1:H:240:LEU:C	1:H:240:LEU:HD12	2.31	0.44
1:K:635:THR:CG2	1:K:636:ILE:N	2.81	0.44
1:P:658:LEU:HD12	1:P:659:ASP:N	2.32	0.44
1:A:84:VAL:CG1	1:A:85:VAL:N	2.81	0.44
1:O:820:ALA:HB2	1:O:842:TRP:NE1	2.32	0.44
1:B:255:ARG:HB3	1:B:316:HIS:CE1	2.53	0.44
1:F:657:ALA:HB2	1:F:662:PRO:HA	1.98	0.44
1:E:367:MET:O	1:E:368:ASP:HB3	2.17	0.44
1:G:322:LEU:CD2	1:G:324:GLU:N	2.80	0.44
1:H:257:THR:CG2	1:H:258:VAL:N	2.80	0.44
1:B:372:MET:HE1	1:B:395:HIS:HB3	1.98	0.44
1:L:790:ASP:HA	1:L:793:ILE:HD12	1.98	0.44
1:K:486:TYR:N	1:K:496:THR:OG1	2.45	0.44
1:A:429:ASP:OD1	1:A:430:PRO:HD2	2.18	0.44
1:B:78:LEU:HB3	1:B:79:PRO:HD2	2.00	0.44
1:E:843:GLN:HA	1:E:847:LYS:O	2.17	0.44
1:H:360:HIS:CE1	1:H:361:PRO:HD2	2.52	0.44
1:G:43:ARG:NH2	1:G:264:GLU:OE2	2.48	0.44
1:L:646:HIS:CD2	1:L:647:SER:N	2.86	0.44
1:O:244:VAL:HG12	1:O:245:GLN:N	2.33	0.44
1:H:376:ILE:CD1	1:H:398:TRP:CZ3	3.01	0.44
1:I:763:GLY:HA3	1:I:822:LEU:CD2	2.47	0.44
1:J:505:ARG:HG3	1:J:510:GLN:HE21	1.80	0.44
1:C:740:LEU:CD1	1:C:749:ILE:HD11	2.47	0.44
1:B:534:ILE:HG21	1:B:534:ILE:HD13	1.76	0.44
1:D:627:PHE:O	1:D:628:GLN:HG2	2.18	0.44
1:A:844:HIS:CE1	1:A:845:GLN:CG	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:978:ALA:O	1:K:979:GLU:O	2.36	0.44
1:D:118:ASN:HA	1:D:119:PRO:HD2	1.78	0.44
1:K:546:LEU:HD21	1:K:549:PHE:CG	2.52	0.44
1:A:190:ARG:CD	1:A:191:TRP:CZ2	3.00	0.44
1:J:813:ALA:CB	1:J:815:HIS:CD2	3.01	0.44
1:O:797:GLU:O	1:O:800:ARG:N	2.51	0.44
1:C:780:LEU:HA	1:C:886:CYS:HB3	1.99	0.44
1:I:518:TRP:CE3	1:I:522:LYS:HE2	2.53	0.44
1:A:959:ILE:O	1:A:959:ILE:HG23	2.17	0.44
1:J:310:ARG:HH11	1:J:310:ARG:HD3	1.70	0.44
1:B:679:LEU:HD23	1:B:679:LEU:HA	1.55	0.44
1:K:372:MET:HG2	1:K:398:TRP:HE3	1.82	0.44
1:P:352:ARG:NE	1:P:626:PHE:CE1	2.86	0.44
1:P:934:GLU:O	1:P:935:ASN:HB3	2.18	0.44
1:P:937:LEU:CD1	1:P:990:HIS:CD2	3.01	0.44
1:M:418:HIS:C	1:M:420:MET:H	2.22	0.44
1:M:413:ALA:N	1:M:443:MET:HE1	2.33	0.44
1:L:651:LEU:N	1:L:701:VAL:O	2.51	0.44
1:M:114:VAL:HG23	1:M:192:SER:O	2.18	0.44
1:O:708:TRP:CE3	1:O:709:SER:HB3	2.53	0.44
1:K:79:PRO:HG2	1:K:80:GLU:H	1.83	0.44
1:L:152:LEU:C	1:L:152:LEU:HD12	2.38	0.44
1:H:460:ASN:ND2	1:H:461:GLU:CG	2.81	0.44
1:F:651:LEU:O	1:F:701:VAL:N	2.41	0.44
1:F:66:PRO:O	1:F:68:ALA:N	2.51	0.44
1:E:371:THR:HB	1:E:372:MET:H	1.66	0.44
1:O:654:TRP:NE1	1:O:666:GLY:CA	2.80	0.44
1:P:342:LEU:HD12	1:P:342:LEU:C	2.38	0.44
1:H:373:VAL:HG12	1:H:373:VAL:O	2.17	0.44
1:C:685:LEU:HA	1:C:686:PRO:HD3	1.81	0.44
1:G:651:LEU:HD13	1:G:651:LEU:HA	1.71	0.44
1:N:44:THR:OG1	1:N:46:ARG:HG3	2.18	0.44
1:P:804:ASN:H	1:P:804:ASN:HD22	1.66	0.44
1:I:847:LYS:HG2	1:I:849:LEU:CD2	2.48	0.44
1:A:390:SER:CB	1:A:391:HIS:ND1	2.80	0.44
1:K:614:HIS:HB3	1:K:615:PRO:HD2	2.00	0.44
1:N:627:PHE:C	1:N:628:GLN:HE21	2.21	0.44
1:K:916:ASP:CB	1:K:918:TRP:CZ2	3.01	0.44
1:F:881:ARG:NH1	1:F:987:ASP:OD2	2.44	0.44
1:J:354:VAL:O	1:J:387:VAL:HG23	2.18	0.44
1:C:741:THR:O	1:C:741:THR:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:900:LEU:HB2	1:O:939:CYS:O	2.18	0.44
1:L:391:HIS:CD2	1:L:460:ASN:HD22	2.35	0.44
1:O:755:ARG:NH2	1:O:769:TRP:CG	2.86	0.44
1:M:832:ASP:O	1:M:833:ALA:HB2	2.17	0.44
1:E:256:VAL:O	1:E:271:THR:HG23	2.18	0.44
1:A:758:PHE:CZ	1:A:864:MET:CE	3.00	0.44
1:B:454:ILE:O	1:B:455:ILE:HG12	2.18	0.44
1:N:7:LEU:HB2	1:N:71:GLU:OE2	2.17	0.44
1:A:595:THR:HA	1:A:596:PRO:C	2.37	0.44
1:C:420:MET:HB3	1:C:420:MET:HE2	1.79	0.44
1:B:579:ASP:CG	1:B:583:ASN:HB2	2.38	0.44
1:O:897:TRP:O	1:O:918:TRP:N	2.41	0.44
1:F:208:ILE:HD13	1:F:208:ILE:HG21	1.83	0.44
1:E:382:ASN:CG	1:E:617:LEU:HD21	2.38	0.44
1:L:843:GLN:HB3	1:L:847:LYS:O	2.18	0.44
1:B:870:VAL:HG12	1:B:871:GLU:N	2.33	0.44
1:G:765:LEU:HD12	1:G:765:LEU:C	2.38	0.44
1:I:656:VAL:HG12	1:I:694:LEU:HD11	1.99	0.44
1:D:513:PRO:O	1:D:514:ALA:HB3	2.18	0.44
1:G:520:ILE:HD13	1:G:520:ILE:HG21	1.61	0.44
1:E:473:ARG:HD2	1:E:473:ARG:O	2.18	0.44
1:F:1018:LEU:HD23	1:F:1018:LEU:HA	1.67	0.44
1:I:50:GLN:HB3	1:I:216:HIS:O	2.18	0.44
1:N:230:ARG:O	1:N:238:ALA:HB1	2.18	0.44
1:E:197:LEU:HD21	1:E:432:TRP:CE3	2.53	0.43
1:M:578:TYR:CD1	1:M:578:TYR:N	2.86	0.43
1:K:42:ALA:O	1:K:310:ARG:NH1	2.51	0.43
1:P:259:SER:CB	1:P:269:SER:HB2	2.48	0.43
1:M:568:TRP:CD2	1:M:569:ASP:HB3	2.53	0.43
1:H:10:VAL:HG22	1:H:13:ARG:HH21	1.82	0.43
1:H:65:ALA:HB1	1:H:66:PRO:CD	2.36	0.43
1:L:949:HIS:HD2	1:L:1020:TRP:CE2	2.35	0.43
1:L:36:TRP:CD2	1:L:42:ALA:HB2	2.53	0.43
1:H:129:VAL:HG21	1:H:177:LEU:HD13	1.98	0.43
1:G:85:VAL:CG1	1:G:86:VAL:N	2.80	0.43
1:P:682:LEU:HD23	1:P:682:LEU:HA	1.77	0.43
1:C:654:TRP:CZ2	1:C:666:GLY:HA3	2.53	0.43
1:H:612:THR:HA	1:H:613:PRO:HD3	1.74	0.43
1:H:926:TYR:O	1:H:928:PRO:HD3	2.18	0.43
1:G:904:GLU:HG3	1:G:906:TYR:HE1	1.82	0.43
1:G:160:GLY:O	1:G:161:TYR:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:309:TYR:N	1:E:330:VAL:O	2.51	0.43
1:M:745:MET:CE	1:M:761:GLN:HE22	2.31	0.43
1:E:801:ILE:HG23	1:E:808:GLU:HG3	1.99	0.43
1:I:91:GLN:HB3	1:I:98:PRO:CD	2.43	0.43
1:P:429:ASP:HA	1:P:430:PRO:HD3	1.49	0.43
1:E:786:ARG:HH11	1:E:990:HIS:CE1	2.35	0.43
1:O:197:LEU:HD21	1:O:432:TRP:CE3	2.52	0.43
1:B:322:LEU:HG	1:B:323:ILE:N	2.32	0.43
1:G:123:TYR:CE1	1:G:208:ILE:HG13	2.53	0.43
1:G:698:VAL:HG22	1:G:720:TRP:HZ3	1.83	0.43
1:E:354:VAL:HG22	1:E:355:ASN:O	2.18	0.43
1:D:245:GLN:HG2	1:D:288:ARG:HG2	2.00	0.43
1:K:390:SER:CB	1:K:391:HIS:CE1	3.01	0.43
1:K:390:SER:HA	1:K:391:HIS:HA	1.76	0.43
1:F:202:MET:HE1	1:F:357:HIS:HD2	1.83	0.43
1:N:687:GLN:N	1:N:688:PRO:HD3	2.33	0.43
1:E:486:TYR:H	1:E:496:THR:CB	2.31	0.43
1:E:877:PRO:O	1:E:878:HIS:C	2.55	0.43
1:N:1020:TRP:HD1	1:N:1021:CYS:H	1.62	0.43
1:F:210:ARG:NH1	1:F:395:HIS:HA	2.33	0.43
1:E:518:TRP:HD1	1:E:523:TRP:CE2	2.35	0.43
1:N:456:TRP:HZ2	1:N:482:ARG:NH1	2.16	0.43
1:O:997:ASP:HB2	1:O:999:TRP:CE2	2.53	0.43
1:B:386:ALA:HB2	1:B:408:TYR:HB2	1.98	0.43
1:G:354:VAL:HB	1:G:384:PHE:CE1	2.53	0.43
1:H:342:LEU:HD12	1:H:343:LEU:N	2.32	0.43
1:G:557:ARG:NE	1:G:641:GLU:OE2	2.43	0.43
1:F:575:LEU:O	1:F:586:SER:HA	2.18	0.43
1:K:92:MET:O	1:K:93:HIS:ND1	2.49	0.43
1:F:306:PRO:HG3	1:F:406:GLY:HA3	1.99	0.43
1:G:671:ASP:N	1:G:678:GLN:OE1	2.30	0.43
1:I:740:LEU:HG	1:I:740:LEU:O	2.18	0.43
1:I:297:ASN:ND2	1:I:297:ASN:N	2.66	0.43
1:E:989:PHE:HB3	1:E:1009:LEU:HD22	1.99	0.43
1:A:227:VAL:CG1	1:A:228:ALA:N	2.80	0.43
1:J:155:ASN:ND2	1:J:182:ASN:OD1	2.51	0.43
1:P:4:THR:C	1:P:6:SER:H	2.22	0.43
1:E:167:LEU:HB3	1:E:168:PRO:HD2	1.99	0.43
1:P:16:TRP:O	1:P:193:ASP:N	2.51	0.43
1:G:756:TRP:HE1	1:G:768:MET:CE	2.30	0.43
1:E:35:SER:C	1:E:36:TRP:O	2.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:542:MET:CE	1:M:600:GLN:NE2	2.81	0.43
1:P:902:PRO:CD	1:P:918:TRP:CZ3	2.98	0.43
1:P:986:ILE:HD12	1:P:986:ILE:HG21	1.83	0.43
1:P:362:LEU:HD23	1:P:576:ILE:HD12	1.99	0.43
1:M:424:ASN:HB2	1:P:279:ILE:HD11	1.99	0.43
1:H:989:PHE:CZ	1:H:1014:TYR:HD2	2.35	0.43
1:O:100:TYR:CD2	1:O:602:CYS:HB3	2.53	0.43
1:O:599:ARG:HD2	1:O:600:GLN:OE1	2.18	0.43
1:L:778:THR:HG22	1:L:779:PRO:O	2.18	0.43
1:K:775:GLN:HE21	1:K:775:GLN:CA	2.31	0.43
1:H:129:VAL:CG2	1:H:182:ASN:ND2	2.80	0.43
1:M:305:ILE:O	1:M:307:ASN:N	2.49	0.43
1:I:288:ARG:C	1:I:289:VAL:HG12	2.38	0.43
1:E:533:LEU:CD1	1:E:534:ILE:N	2.79	0.43
1:B:254:LEU:O	1:B:255:ARG:HD3	2.19	0.43
1:E:127:PHE:CE1	1:E:184:LEU:CD1	3.01	0.43
1:M:352:ARG:NH2	1:M:641:GLU:OE1	2.52	0.43
1:G:323:ILE:N	1:G:323:ILE:HD12	2.33	0.43
1:M:904:GLU:CG	1:M:906:TYR:HE1	2.31	0.43
1:G:534:ILE:CD1	1:G:563:GLN:HB2	2.48	0.43
1:O:954:ASP:OD2	1:P:1013:ARG:NH2	2.51	0.43
1:G:698:VAL:CG2	1:G:720:TRP:CZ3	3.00	0.43
1:P:736:ALA:C	1:P:737:ILE:HG22	2.38	0.43
1:P:737:ILE:O	1:P:738:PRO:C	2.53	0.43
1:H:787:ALA:O	1:H:933:SER:HB2	2.19	0.43
1:H:650:GLU:HB3	1:H:670:LEU:HB2	2.00	0.43
1:I:390:SER:HA	1:I:391:HIS:HA	1.57	0.43
1:B:698:VAL:CG2	1:B:718:GLN:CA	2.96	0.43
1:H:429:ASP:OD1	1:H:430:PRO:HD2	2.18	0.43
1:L:274:PHE:HB3	1:L:286:ALA:O	2.18	0.43
1:N:647:SER:HB2	1:N:650:GLU:HB2	1.99	0.43
1:H:375:ASP:O	1:H:379:MET:HG3	2.18	0.43
1:M:702:GLN:HA	1:M:703:PRO:HD2	1.86	0.43
1:K:338:GLU:O	1:K:339:ASN:O	2.36	0.43
1:P:238:ALA:HB3	1:P:298:PRO:HG3	2.00	0.43
1:G:14:ARG:NH1	1:G:16:TRP:CZ2	2.83	0.43
1:O:738:PRO:HA	1:O:751:LEU:HD12	1.99	0.43
1:B:472:TYR:O	1:B:476:LYS:HG2	2.18	0.43
1:B:420:MET:HE2	1:B:420:MET:HB3	1.73	0.43
1:G:608:PHE:O	1:G:611:ARG:N	2.45	0.43
1:G:525:SER:O	1:G:526:LEU:C	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:814:GLY:O	1:F:815:HIS:C	2.56	0.43
1:O:705:ALA:HA	3:O:1257:HOH:O	2.17	0.43
1:J:149:ALA:HB2	1:J:192:SER:CB	2.48	0.43
1:K:86:VAL:HA	1:K:87:PRO:C	2.37	0.43
1:K:576:ILE:HG22	1:K:576:ILE:O	2.17	0.43
1:H:629:PHE:CD1	1:H:629:PHE:N	2.86	0.43
1:C:569:ASP:O	1:C:605:GLY:HA2	2.19	0.43
1:A:966:GLN:O	1:A:967:LEU:C	2.57	0.43
1:P:34:ALA:O	1:P:35:SER:HB2	2.19	0.43
1:P:902:PRO:CG	1:P:918:TRP:CE3	3.01	0.43
1:P:503:TYR:CD1	1:P:503:TYR:N	2.81	0.43
1:P:668:VAL:CG1	1:P:669:PRO:N	2.81	0.43
1:M:482:ARG:HH11	1:M:482:ARG:HD2	1.63	0.43
1:K:747:PHE:CE2	1:K:760:ARG:CD	3.00	0.43
1:A:894:ARG:NH1	1:A:894:ARG:HB3	2.31	0.43
1:D:14:ARG:HH12	1:D:16:TRP:HZ2	1.65	0.43
1:E:99:ILE:CG2	1:E:100:TYR:N	2.81	0.43
1:H:873:ALA:CB	1:H:876:THR:HG22	2.31	0.43
1:P:197:LEU:C	1:P:198:GLU:HG3	2.38	0.43
1:M:177:LEU:N	1:M:177:LEU:HD23	2.34	0.43
1:I:73:TRP:O	1:I:183:ARG:NH2	2.50	0.43
1:G:833:ALA:HB1	1:G:859:ASP:HA	1.95	0.43
1:M:621:LYS:HE2	1:M:717:TRP:HZ3	1.83	0.43
1:E:360:HIS:CE1	1:E:361:PRO:HD2	2.53	0.43
1:G:822:LEU:CD1	1:G:824:GLN:H	2.31	0.43
1:J:100:TYR:HB2	1:J:203:TRP:CD2	2.53	0.43
1:J:228:ALA:O	1:J:240:LEU:HA	2.17	0.43
1:B:599:ARG:HB2	1:B:600:GLN:H	1.36	0.43
1:I:282:ARG:HB3	1:L:421:VAL:HG22	2.00	0.43
1:L:636:ILE:HD11	1:L:682:LEU:HD11	2.00	0.43
1:L:654:TRP:CE2	1:L:666:GLY:CA	2.97	0.43
1:F:836:ILE:CG2	1:F:837:THR:N	2.80	0.43
1:F:261:TRP:HZ3	1:F:264:GLU:O	2.01	0.43
1:A:567:VAL:CG1	1:A:568:TRP:N	2.82	0.43
1:K:749:ILE:HD13	1:K:834:VAL:HG11	1.97	0.43
1:C:91:GLN:NE2	1:C:190:ARG:CZ	2.81	0.43
1:B:777:LEU:HD12	1:B:889:ALA:CA	2.49	0.43
1:L:114:VAL:CG1	1:L:115:PRO:N	2.80	0.43
1:H:822:LEU:HD12	1:H:824:GLN:N	2.27	0.43
1:P:456:TRP:CE2	1:P:482:ARG:CD	2.98	0.43
1:A:608:PHE:N	1:A:612:THR:O	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:1022:GLN:C	1:P:1023:LYS:HG3	2.38	0.43
1:M:523:TRP:HA	1:M:526:LEU:HD12	1.99	0.43
1:E:139:THR:HG21	1:E:177:LEU:HD11	1.97	0.43
1:L:473:ARG:O	1:L:476:LYS:HB2	2.18	0.43
1:J:360:HIS:ND1	1:J:363:HIS:N	2.47	0.43
1:G:16:TRP:O	1:G:193:ASP:N	2.47	0.43
1:J:256:VAL:O	1:J:271:THR:HA	2.19	0.43
1:K:865:ALA:HB2	1:K:1019:VAL:HG22	2.01	0.43
1:O:832:ASP:O	1:O:833:ALA:HB2	2.18	0.43
1:A:576:ILE:CG2	1:A:577:LYS:N	2.79	0.43
1:C:890:GLN:CG	1:C:891:VAL:N	2.81	0.43
1:P:231:PHE:HA	1:P:237:ARG:O	2.18	0.43
1:H:107:ILE:HG13	1:H:108:THR:O	2.19	0.43
1:D:548:GLY:O	1:D:549:PHE:C	2.57	0.43
1:D:25:ASN:HD21	1:D:158:TRP:HZ3	1.66	0.43
1:A:738:PRO:HB2	1:A:834:VAL:HG23	2.00	0.43
1:A:526:LEU:HA	1:A:526:LEU:HD23	1.73	0.43
1:I:158:TRP:CH2	1:I:160:GLY:HA2	2.54	0.43
1:K:545:SER:HB3	1:K:546:LEU:H	1.52	0.43
1:K:83:THR:O	1:K:84:VAL:HG23	2.18	0.43
1:F:663:LEU:HD23	1:F:663:LEU:HA	1.81	0.43
1:A:967:LEU:HA	1:A:967:LEU:HD23	1.51	0.43
1:J:977:HIS:HD2	1:J:978:ALA:O	2.02	0.43
1:D:150:PHE:O	1:D:161:TYR:HA	2.17	0.43
1:O:814:GLY:O	1:O:817:GLN:N	2.49	0.43
1:N:388:ARG:HA	1:N:410:VAL:HB	2.00	0.43
1:O:387:VAL:HG13	1:O:387:VAL:O	2.18	0.43
1:H:313:VAL:HG12	1:H:313:VAL:O	2.17	0.43
1:I:967:LEU:HD23	1:I:967:LEU:HA	1.77	0.43
1:A:726:LEU:HD23	1:A:726:LEU:HA	1.81	0.43
1:D:271:THR:HG22	1:D:272:ALA:N	2.34	0.43
1:N:378:LEU:HD23	1:N:378:LEU:HA	1.42	0.43
1:P:344:LEU:C	1:P:344:LEU:HD23	2.38	0.43
1:M:53:SER:C	1:M:54:LEU:HD23	2.38	0.43
1:F:856:TYR:CD1	1:F:856:TYR:N	2.86	0.43
1:P:573:GLN:HB2	1:P:602:CYS:HB2	1.99	0.43
1:M:413:ALA:HA	1:M:443:MET:CE	2.48	0.43
1:F:36:TRP:CD2	1:F:42:ALA:CB	2.99	0.43
1:H:114:VAL:HG13	1:H:191:TRP:HB2	1.99	0.43
1:M:768:MET:CE	1:M:1022:GLN:NE2	2.81	0.43
1:I:57:GLU:HB2	1:I:83:THR:CG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1020:TRP:CD1	1:H:1021:CYS:N	2.80	0.43
1:D:767:GLN:HG3	1:D:768:MET:N	2.34	0.43
1:O:534:ILE:HG22	3:O:1261:HOH:O	2.18	0.43
1:K:597:ASN:ND2	1:K:599:ARG:H	2.15	0.43
1:N:147:ASN:CA	1:N:165:SER:HB3	2.46	0.43
1:H:864:MET:O	1:H:1019:VAL:HG22	2.18	0.43
1:H:1019:VAL:HG12	1:H:1019:VAL:O	2.17	0.43
1:B:854:LYS:NZ	3:B:1217:HOH:O	2.51	0.43
1:N:635:THR:CG2	1:N:681:GLU:HG3	2.40	0.43
1:A:927:THR:HA	1:A:928:PRO:HD3	1.79	0.43
1:P:797:GLU:O	1:P:801:ILE:HG13	2.19	0.43
1:H:778:THR:CG2	1:H:779:PRO:HD2	2.40	0.43
1:L:372:MET:HG3	1:L:398:TRP:HE3	1.83	0.43
1:M:300:LEU:HG	1:M:300:LEU:H	1.75	0.43
1:L:217:LYS:HZ2	1:L:324:GLU:CD	2.21	0.43
1:M:397:LEU:HA	1:M:397:LEU:HD13	1.78	0.43
1:M:745:MET:HE1	1:M:761:GLN:HE22	1.83	0.43
1:M:747:PHE:CE1	1:M:760:ARG:CD	2.95	0.43
1:A:742:THR:CG2	1:A:743:SER:N	2.79	0.43
1:N:717:TRP:HZ2	1:N:912:ALA:HB1	1.84	0.43
1:B:767:GLN:CD	1:B:768:MET:H	2.22	0.43
1:M:606:LEU:O	1:M:617:LEU:HD13	2.19	0.43
1:K:904:GLU:OE2	1:K:929:TYR:OH	2.35	0.43
1:E:416:GLU:HA	1:E:460:ASN:O	2.18	0.43
1:B:975:LEU:HA	1:B:975:LEU:HD22	1.78	0.43
1:O:718:GLN:HG3	1:O:719:GLN:H	1.83	0.43
1:A:429:ASP:O	1:A:430:PRO:C	2.56	0.43
1:J:406:GLY:O	1:J:407:LEU:HD23	2.19	0.43
1:N:152:LEU:HD12	1:N:153:TRP:N	2.31	0.43
1:P:923:SER:C	1:P:925:MET:H	2.21	0.43
1:K:256:VAL:N	1:K:272:ALA:O	2.45	0.43
1:C:933:SER:O	1:C:934:GLU:C	2.57	0.43
1:N:904:GLU:CG	1:N:906:TYR:HE1	2.31	0.43
1:O:138:GLN:NE2	1:O:172:ASP:OD2	2.34	0.43
1:O:755:ARG:HB2	1:O:769:TRP:HB2	2.01	0.43
1:H:382:ASN:ND2	1:H:617:LEU:CD2	2.82	0.43
1:C:673:ALA:O	1:C:674:PRO:O	2.36	0.43
1:C:856:TYR:HD2	1:C:864:MET:CE	2.31	0.43
1:N:52:ARG:HB3	1:N:214:LEU:HB2	1.99	0.43
1:E:937:LEU:HG	1:E:938:ARG:N	2.33	0.43
1:F:317:THR:OG1	1:F:319:ASP:OD1	2.29	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:369:GLU:HG3	1:O:397:LEU:HD21	2.00	0.43
1:A:844:HIS:CE1	1:A:845:GLN:HG3	2.52	0.43
1:J:558:GLN:HG2	1:J:559:TYR:CD1	2.54	0.43
1:G:350:LEU:HD12	1:G:351:ILE:N	2.33	0.43
1:B:573:GLN:NE2	3:B:1255:HOH:O	2.49	0.43
1:D:59:ARG:NH2	1:D:81:ALA:O	2.30	0.43
1:G:552:TYR:O	1:G:553:TRP:C	2.56	0.43
1:H:810:TRP:O	1:H:811:LYS:C	2.55	0.43
1:C:649:ASN:ND2	1:C:704:ASN:O	2.50	0.43
1:H:88:SER:HA	1:H:366:VAL:HG21	2.00	0.43
1:G:151:HIS:HD1	1:G:151:HIS:HA	1.78	0.43
1:D:74:LEU:HD23	1:D:74:LEU:HA	1.85	0.43
1:P:11:LEU:HD23	1:P:11:LEU:N	2.33	0.43
1:B:300:LEU:O	1:B:307:ASN:HB2	2.18	0.43
1:P:927:THR:HB	1:P:935:ASN:HB2	1.99	0.43
1:P:935:ASN:C	1:P:937:LEU:H	2.21	0.43
1:P:387:VAL:HG23	1:P:388:ARG:N	2.33	0.43
1:K:843:GLN:HG2	1:K:848:THR:HA	2.00	0.43
1:L:278:ILE:N	1:L:278:ILE:CD1	2.79	0.43
1:E:114:VAL:CG1	1:E:191:TRP:HB2	2.48	0.43
1:P:194:GLY:O	1:P:195:SER:C	2.55	0.43
1:E:78:LEU:HA	1:E:78:LEU:HD22	1.82	0.43
1:D:775:GLN:NE2	1:D:775:GLN:CA	2.81	0.43
1:O:533:LEU:O	1:O:534:ILE:HG13	2.17	0.43
1:G:80:GLU:H	1:G:80:GLU:HG3	1.31	0.43
1:I:114:VAL:CG1	1:I:115:PRO:HD2	2.39	0.43
1:E:575:LEU:O	1:E:587:ALA:N	2.45	0.43
1:N:292:ARG:O	1:N:293:LEU:HD23	2.19	0.43
1:G:237:ARG:HD2	1:G:296:GLU:CG	2.47	0.43
1:C:429:ASP:OD1	1:C:431:ARG:HD3	2.18	0.43
1:N:701:VAL:HG12	1:N:712:GLY:C	2.38	0.43
1:H:227:VAL:CG1	1:H:240:LEU:HD11	2.48	0.43
1:G:287:ASP:N	1:G:287:ASP:OD1	2.35	0.43
1:A:668:VAL:CG1	1:A:669:PRO:HD2	2.42	0.43
1:B:645:ARG:NH2	1:B:650:GLU:OE1	2.48	0.43
1:P:505:ARG:HG2	1:P:996:ASP:OD2	2.17	0.43
1:O:922:LEU:HD13	1:O:946:TYR:CE1	2.54	0.43
1:K:274:PHE:CD2	1:K:289:VAL:CG1	3.01	0.43
1:J:209:PHE:O	1:J:366:VAL:HG22	2.17	0.43
1:D:114:VAL:HG13	1:D:115:PRO:N	2.33	0.43
1:L:163:GLN:OE1	1:L:193:ASP:OD1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:738:PRO:HB2	1:G:834:VAL:CG2	2.48	0.43
1:L:625:GLN:HB2	1:L:716:ALA:HB2	1.99	0.43
1:I:26:ARG:C	1:I:27:LEU:O	2.57	0.43
1:F:357:HIS:CE1	1:F:568:TRP:HH2	2.34	0.43
1:H:413:ALA:HA	1:H:443:MET:CE	2.44	0.43
1:H:94:GLY:O	1:H:95:TYR:C	2.52	0.43
1:I:768:MET:HG2	1:I:775:GLN:HB2	2.00	0.43
1:P:234:ASP:OD1	1:P:236:SER:OG	2.31	0.43
1:N:35:SER:HB3	1:N:50:GLN:HB3	1.99	0.43
1:B:330:VAL:HG13	3:B:1267:HOH:O	2.18	0.43
1:D:577:LYS:O	1:D:584:PRO:HA	2.18	0.43
1:E:323:ILE:N	1:E:323:ILE:CD1	2.82	0.43
1:J:577:LYS:HD2	1:J:591:ASP:O	2.18	0.43
1:L:257:THR:HA	1:L:270:GLY:O	2.18	0.43
1:I:892:ALA:HB3	1:I:946:TYR:CE1	2.54	0.43
1:M:1004:SER:HB2	1:M:1006:GLU:OE2	2.18	0.43
1:K:278:ILE:HD12	1:K:278:ILE:N	2.34	0.43
1:N:10:VAL:HG23	1:N:10:VAL:H	1.57	0.43
1:G:496:THR:O	1:G:496:THR:HG23	2.18	0.43
1:F:337:ILE:HA	1:F:341:LEU:O	2.18	0.43
1:C:678:GLN:O	1:C:679:LEU:HD23	2.17	0.43
1:J:789:LEU:HA	1:J:933:SER:HB2	2.00	0.43
1:I:316:HIS:HB3	1:I:322:LEU:HA	2.01	0.43
1:P:141:ILE:CB	1:P:214:LEU:HD21	2.47	0.43
1:M:487:GLU:HB2	1:M:500:CYS:O	2.18	0.43
1:M:225:PHE:O	1:M:226:HIS:HD2	2.01	0.43
1:P:360:HIS:HB3	1:P:363:HIS:HB2	2.00	0.43
1:M:168:PRO:O	1:M:442:ARG:NH2	2.50	0.43
1:H:34:ALA:CB	1:H:36:TRP:CZ3	3.00	0.43
1:E:91:GLN:C	1:E:93:HIS:H	2.20	0.43
1:E:13:ARG:O	1:E:14:ARG:HB2	2.19	0.43
1:L:651:LEU:HD12	1:L:651:LEU:HA	1.70	0.43
1:K:78:LEU:CB	1:K:79:PRO:HD2	2.34	0.43
1:K:1022:GLN:HB3	1:K:1023:LYS:H	1.56	0.43
1:H:25:ASN:ND2	1:H:158:TRP:CH2	2.87	0.43
1:H:5:ASP:CG	1:H:157:ARG:HA	2.38	0.43
1:J:57:GLU:HA	1:J:84:VAL:O	2.18	0.43
1:O:356:ARG:HG2	3:O:1277:HOH:O	2.17	0.43
1:D:433:LEU:HB3	1:D:434:PRO:HD3	2.01	0.43
1:O:654:TRP:CE2	1:O:666:GLY:CA	2.97	0.43
1:B:758:PHE:HZ	1:B:864:MET:HE3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:857:ARG:NH1	1:O:857:ARG:CG	2.79	0.43
1:L:115:PRO:CG	1:L:191:TRP:CD1	3.00	0.43
1:B:102:ASN:HB3	3:B:1219:HOH:O	2.18	0.43
1:L:147:ASN:HB2	1:L:209:PHE:CE1	2.53	0.43
1:L:200:GLN:O	1:L:202:MET:HG2	2.19	0.43
1:A:224:ASP:O	1:A:225:PHE:HB3	2.19	0.43
1:I:1004:SER:HB2	1:I:1006:GLU:OE2	2.19	0.43
1:I:572:ASP:HB3	1:I:603:MET:HG2	2.01	0.43
1:I:936:GLY:O	1:I:937:LEU:O	2.37	0.43
1:G:194:GLY:O	1:G:198:GLU:HG3	2.19	0.43
1:O:375:ASP:CG	1:O:611:ARG:HH21	2.21	0.43
1:L:937:LEU:CD1	1:L:990:HIS:HD2	2.32	0.43
1:N:412:GLU:OE1	1:N:457:SER:OG	2.29	0.43
1:C:836:ILE:CG2	1:C:837:THR:N	2.81	0.43
1:K:726:LEU:HD23	1:K:726:LEU:HA	1.49	0.43
1:D:786:ARG:HH11	1:D:990:HIS:CE1	2.35	0.43
1:O:740:LEU:HD12	1:O:749:ILE:CD1	2.49	0.43
1:B:562:LEU:HD23	1:B:562:LEU:HA	1.85	0.43
1:N:734:SER:CB	1:N:860:GLY:HA3	2.49	0.43
1:A:490:GLY:O	1:A:491:ALA:HB3	2.17	0.43
1:F:670:LEU:HA	1:F:670:LEU:HD23	1.91	0.43
1:A:271:THR:HG22	1:A:272:ALA:N	2.33	0.43
1:K:160:GLY:HA3	1:K:171:PHE:CE2	2.54	0.43
1:J:895:VAL:CG2	1:J:922:LEU:HD12	2.49	0.43
1:C:360:HIS:CG	1:C:361:PRO:HD2	2.54	0.43
1:B:53:SER:O	1:B:54:LEU:HD23	2.18	0.43
1:H:420:MET:HB3	1:H:420:MET:HE2	1.67	0.43
1:P:972:HIS:N	1:P:972:HIS:ND1	2.66	0.43
1:O:726:LEU:HD23	1:O:726:LEU:HA	1.70	0.43
1:P:927:THR:CG2	1:P:929:TYR:CZ	3.01	0.43
1:P:955:PHE:HB2	1:P:987:ASP:O	2.18	0.43
1:H:324:GLU:CG	1:H:325:ALA:H	2.32	0.43
1:E:91:GLN:CD	1:E:91:GLN:H	2.18	0.43
1:P:391:HIS:CD2	1:P:460:ASN:ND2	2.87	0.43
1:P:395:HIS:HA	1:P:396:PRO:HD3	1.89	0.43
1:E:146:VAL:HG11	1:E:150:PHE:CD1	2.53	0.43
1:A:261:TRP:CE3	1:A:266:GLN:HA	2.53	0.43
1:L:440:VAL:HG23	1:L:471:LEU:HD13	1.96	0.43
1:E:575:LEU:O	1:E:587:ALA:HB3	2.18	0.43
1:G:86:VAL:CG1	1:G:87:PRO:HA	2.40	0.43
1:K:18:ASN:CB	1:K:21:VAL:HG23	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:373:VAL:HG12	1:B:377:LEU:HD12	1.99	0.43
1:G:24:LEU:HA	1:G:24:LEU:HD12	1.56	0.43
1:K:635:THR:OG1	1:K:681:GLU:HA	2.19	0.43
1:P:333:ARG:HB3	1:P:345:ASN:HD21	1.82	0.43
1:A:955:PHE:N	1:A:955:PHE:CD1	2.87	0.43
1:E:178:ARG:HB2	1:E:182:ASN:OD1	2.19	0.43
1:B:114:VAL:HG11	1:B:191:TRP:HB2	2.00	0.43
1:B:767:GLN:OE1	1:B:768:MET:O	2.37	0.43
1:P:806:TRP:O	1:P:807:VAL:C	2.57	0.43
1:C:354:VAL:HG11	1:C:379:MET:HE2	2.01	0.43
1:E:536:CYS:O	1:E:566:PHE:HB2	2.19	0.43
1:I:979:GLU:OE1	1:I:983:TRP:NE1	2.51	0.43
1:B:718:GLN:HG2	1:B:720:TRP:CZ2	2.53	0.43
1:P:227:VAL:CG1	1:P:240:LEU:HD11	2.49	0.43
1:N:91:GLN:NE2	1:N:96:ASP:OD1	2.51	0.43
1:E:738:PRO:HB2	1:E:749:ILE:HG23	2.01	0.43
1:I:902:PRO:HD3	1:I:918:TRP:CH2	2.53	0.43
1:B:382:ASN:ND2	1:B:617:LEU:CD2	2.81	0.43
1:M:109:VAL:O	1:M:109:VAL:HG12	2.18	0.43
1:B:73:TRP:CE2	1:B:122:CYS:HB3	2.54	0.43
1:N:801:ILE:HA	1:N:801:ILE:HD12	1.62	0.43
1:A:632:SER:O	1:A:635:THR:N	2.42	0.43
1:O:271:THR:CG2	1:O:272:ALA:N	2.79	0.43
1:E:390:SER:CB	1:E:391:HIS:ND1	2.82	0.43
1:N:493:THR:O	1:N:496:THR:HG22	2.19	0.43
1:I:959:ILE:HA	3:I:1254:HOH:O	2.18	0.43
1:E:349:LEU:HD13	1:E:351:ILE:HD11	2.00	0.43
1:I:788:PRO:HG3	1:I:807:VAL:CG2	2.49	0.43
1:A:395:HIS:CG	1:A:396:PRO:HD2	2.54	0.43
1:A:91:GLN:C	1:A:93:HIS:H	2.22	0.43
1:N:63:PHE:HB3	1:N:64:PRO:HD2	2.01	0.43
1:G:634:GLN:O	1:G:682:LEU:HB2	2.19	0.43
1:L:942:ARG:HA	1:L:953:GLY:O	2.19	0.43
1:J:250:LEU:HD11	1:J:286:ALA:O	2.18	0.43
1:K:358:GLU:HB3	1:K:367:MET:HG3	2.01	0.43
1:A:877:PRO:O	1:A:878:HIS:C	2.52	0.43
1:M:51:LEU:HD12	1:M:52:ARG:H	1.84	0.43
1:P:322:LEU:HD11	1:P:325:ALA:HB2	2.00	0.43
1:A:356:ARG:NH1	1:A:356:ARG:CG	2.79	0.43
1:K:758:PHE:O	1:K:759:ASN:C	2.54	0.43
1:L:90:TRP:HE1	1:L:96:ASP:CG	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:103:VAL:HG22	1:P:418:HIS:CD2	2.54	0.43
1:M:651:LEU:CD1	1:M:669:PRO:HA	2.47	0.43
1:E:80:GLU:H	1:E:80:GLU:HG3	1.25	0.43
1:I:18:ASN:N	1:I:193:ASP:OD2	2.52	0.43
1:A:949:HIS:N	1:A:949:HIS:ND1	2.67	0.43
1:M:125:LEU:O	1:M:184:LEU:N	2.43	0.43
1:K:139:THR:CG2	1:K:177:LEU:HD12	2.49	0.43
1:L:316:HIS:HB3	1:L:322:LEU:HA	1.99	0.43
1:L:970:THR:HG22	1:L:975:LEU:HB2	2.00	0.43
1:M:257:THR:OG1	1:M:271:THR:HG23	2.19	0.43
1:K:974:HIS:C	1:K:975:LEU:HD23	2.39	0.43
1:K:975:LEU:HA	1:K:975:LEU:HD23	1.78	0.43
1:H:486:TYR:CE2	1:H:488:GLY:CA	2.99	0.43
1:E:210:ARG:HH12	1:E:395:HIS:N	2.14	0.43
1:N:350:LEU:HB3	1:N:352:ARG:HH12	1.84	0.43
1:I:654:TRP:CZ2	1:I:666:GLY:HA3	2.53	0.43
1:K:653:HIS:NE2	1:K:667:GLU:OE1	2.51	0.43
1:P:1013:ARG:HB2	1:P:1013:ARG:CZ	2.49	0.43
1:E:289:VAL:HG22	1:E:291:LEU:HD12	2.00	0.43
1:P:578:TYR:HA	1:P:583:ASN:O	2.18	0.43
1:L:474:TRP:CE2	1:L:478:VAL:HG21	2.54	0.43
1:I:189:LEU:N	1:I:189:LEU:CD2	2.79	0.43
1:F:1011:ALA:HB3	1:F:1014:TYR:CZ	2.53	0.43
1:N:802:ASP:O	1:N:803:PRO:C	2.56	0.43
1:I:548:GLY:O	1:I:549:PHE:C	2.55	0.43
1:G:152:LEU:CD2	1:G:159:VAL:HB	2.47	0.43
1:H:618:THR:HG22	1:H:912:ALA:HB1	2.00	0.43
1:E:764:PHE:O	1:E:766:SER:N	2.51	0.43
1:D:352:ARG:O	1:D:385:ASN:HB2	2.19	0.43
1:M:315:LEU:HG	1:M:323:ILE:HB	2.01	0.43
1:M:316:HIS:HA	1:M:323:ILE:HD13	2.01	0.43
1:F:114:VAL:HG13	1:F:115:PRO:HD2	2.00	0.43
1:F:608:PHE:HD2	1:F:612:THR:O	2.01	0.43
1:P:231:PHE:HB3	1:P:235:PHE:HA	2.01	0.43
1:E:654:TRP:CE3	1:E:655:MET:HA	2.53	0.43
1:H:799:THR:C	1:H:800:ARG:HG3	2.39	0.43
1:H:797:GLU:N	1:H:800:ARG:O	2.39	0.43
1:F:225:PHE:C	1:F:226:HIS:HD2	2.22	0.43
1:M:295:VAL:HG21	1:M:332:PHE:HZ	1.84	0.43
1:C:525:SER:O	1:C:526:LEU:C	2.55	0.43
1:I:237:ARG:HD2	1:I:296:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:52:ARG:O	1:A:213:SER:HA	2.19	0.43
1:K:689:GLU:O	1:K:690:SER:C	2.57	0.43
1:O:552:TYR:O	1:O:554:GLN:N	2.52	0.43
1:D:351:ILE:HD12	1:D:351:ILE:HG23	1.64	0.43
1:G:967:LEU:HA	1:G:967:LEU:HD23	1.91	0.43
1:E:277:GLU:HG3	1:E:277:GLU:H	1.63	0.43
1:N:629:PHE:N	1:N:629:PHE:CD1	2.86	0.43
1:C:13:ARG:H	1:C:13:ARG:HG3	1.37	0.43
1:D:261:TRP:CZ3	1:D:266:GLN:HB2	2.54	0.43
1:N:502:MET:HB2	1:N:537:GLU:HB2	2.01	0.43
1:E:439:ARG:CG	1:E:439:ARG:NH1	2.78	0.43
1:P:151:HIS:CE1	1:P:161:TYR:CD1	3.07	0.43
1:M:594:ASP:O	1:M:597:ASN:HB3	2.19	0.43
1:P:378:LEU:HB3	1:P:570:TRP:HH2	1.83	0.43
1:M:390:SER:HB2	1:M:391:HIS:CE1	2.54	0.43
1:I:210:ARG:HH11	1:I:395:HIS:CB	2.30	0.43
1:O:706:THR:OG1	1:O:709:SER:N	2.41	0.43
1:K:23:GLN:O	1:K:24:LEU:HD13	2.19	0.43
1:H:202:MET:CE	1:H:357:HIS:CD2	3.00	0.43
1:H:388:ARG:NH2	1:H:460:ASN:OD1	2.52	0.43
1:H:202:MET:CE	1:H:392:TYR:HE2	2.32	0.43
1:H:569:ASP:OD1	1:H:569:ASP:N	2.52	0.43
1:F:654:TRP:NE1	1:F:666:GLY:CA	2.76	0.43
1:O:409:VAL:CG1	1:O:410:VAL:N	2.81	0.43
1:B:441:THR:HG21	1:C:430:PRO:HB3	2.00	0.43
1:L:66:PRO:O	1:L:67:GLU:C	2.57	0.43
1:A:6:SER:HG	1:A:9:VAL:HG23	1.82	0.43
1:H:18:ASN:HD22	1:H:21:VAL:CG2	2.32	0.43
1:M:352:ARG:NE	1:M:626:PHE:CE1	2.87	0.43
1:A:360:HIS:HA	1:A:361:PRO:HD3	1.87	0.43
1:C:685:LEU:HA	1:C:685:LEU:HD23	1.66	0.43
1:G:651:LEU:HD12	1:G:668:VAL:O	2.18	0.43
1:I:961:ARG:NE	1:I:981:GLY:O	2.52	0.43
1:O:134:LEU:HD22	1:O:134:LEU:HA	1.49	0.43
1:E:322:LEU:CD2	1:E:324:GLU:N	2.80	0.43
1:J:30:HIS:CE1	1:J:33:PHE:CD2	3.07	0.43
1:M:108:THR:CG2	1:M:109:VAL:N	2.80	0.43
1:L:17:GLU:OE1	1:L:113:PHE:HD1	2.02	0.43
1:I:40:GLU:O	1:I:41:GLU:C	2.55	0.43
1:D:475:ILE:HD12	1:D:475:ILE:HG21	1.77	0.43
1:K:595:THR:CG2	1:K:596:PRO:HA	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:465:GLY:H	1:M:468:HIS:CE1	2.33	0.43
1:O:506:VAL:O	1:O:506:VAL:HG12	2.19	0.43
1:C:810:TRP:HH2	1:C:991:MET:HE1	1.84	0.43
1:A:336:ARG:HH21	1:A:338:GLU:CD	2.22	0.43
1:G:679:LEU:HD23	1:G:679:LEU:HA	1.28	0.43
1:G:678:GLN:O	1:G:679:LEU:HD23	2.19	0.43
1:D:485:GLN:HA	1:D:496:THR:OG1	2.19	0.43
1:A:503:TYR:N	1:A:537:GLU:O	2.37	0.43
1:E:506:VAL:HG12	1:E:507:ASP:CG	2.39	0.43
1:O:476:LYS:HD2	1:O:476:LYS:HA	1.73	0.43
1:B:959:ILE:O	1:B:959:ILE:HG23	2.19	0.43
1:M:421:VAL:O	1:M:421:VAL:HG12	2.19	0.43
1:H:595:THR:HA	1:H:596:PRO:C	2.38	0.43
1:F:141:ILE:O	1:F:170:GLU:HA	2.19	0.43
1:E:7:LEU:N	1:E:71:GLU:OE2	2.50	0.43
1:M:187:MET:HE1	1:M:189:LEU:HD21	2.00	0.43
1:M:186:VAL:CG1	1:M:187:MET:N	2.81	0.43
1:E:52:ARG:CB	1:E:214:LEU:HB2	2.45	0.43
1:P:256:VAL:O	1:P:271:THR:HA	2.19	0.43
1:I:134:LEU:HA	1:I:134:LEU:HD23	1.71	0.43
1:P:99:ILE:O	1:P:203:TRP:HA	2.18	0.43
1:P:622:HIS:O	1:P:625:GLN:HG2	2.18	0.43
1:M:443:MET:O	1:M:446:ARG:N	2.50	0.43
1:K:843:GLN:HB2	1:K:843:GLN:HE21	1.67	0.43
1:P:224:ASP:O	1:P:225:PHE:HB3	2.19	0.43
1:P:225:PHE:HB3	1:P:244:VAL:CG1	2.31	0.43
1:K:577:LYS:O	1:K:584:PRO:HA	2.18	0.43
1:P:200:GLN:C	1:P:204:ARG:HH21	2.23	0.43
1:G:892:ALA:HB3	1:G:946:TYR:CD1	2.50	0.43
1:C:698:VAL:O	1:C:717:TRP:HA	2.19	0.43
1:M:381:GLN:HG2	1:M:713:HIS:NE2	2.33	0.43
1:G:79:PRO:CG	1:G:80:GLU:HG3	2.39	0.43
1:H:147:ASN:CB	1:H:209:PHE:HE1	2.24	0.43
1:H:166:ARG:CG	1:H:392:TYR:HB2	2.40	0.43
1:H:86:VAL:CG1	1:H:87:PRO:HA	2.40	0.43
1:M:101:THR:HG22	1:M:102:ASN:H	1.84	0.43
1:I:102:ASN:C	1:I:102:ASN:HD22	2.21	0.43
1:D:394:ASN:N	1:D:394:ASN:HD22	2.15	0.43
1:E:970:THR:HG21	1:E:976:LEU:HD23	2.01	0.43
1:J:84:VAL:CG1	1:J:85:VAL:H	2.24	0.43
1:M:890:GLN:CG	1:M:891:VAL:N	2.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:890:GLN:HG3	1:A:891:VAL:H	1.82	0.43
1:O:454:ILE:O	1:O:455:ILE:HG12	2.18	0.43
1:B:460:ASN:ND2	1:B:461:GLU:CG	2.81	0.43
1:I:652:LEU:HD12	1:I:653:HIS:N	2.33	0.43
1:K:749:ILE:O	1:K:755:ARG:HA	2.19	0.43
1:E:963:SER:O	1:E:966:GLN:N	2.52	0.43
1:I:123:TYR:N	1:I:123:TYR:CD1	2.87	0.43
1:P:331:GLY:CA	1:P:451:PRO:HG3	2.48	0.43
1:K:246:MET:HG2	1:K:274:PHE:CZ	2.54	0.43
1:B:822:LEU:HD12	1:B:824:GLN:H	1.83	0.43
1:P:1018:LEU:CD2	1:P:1019:VAL:N	2.82	0.43
1:J:77:ASP:C	1:J:78:LEU:HD23	2.39	0.43
1:B:653:HIS:CD2	1:B:667:GLU:CG	3.00	0.43
1:K:654:TRP:HB3	1:K:698:VAL:HG12	2.00	0.43
1:G:721:ARG:HG2	1:G:721:ARG:O	2.19	0.43
1:G:127:PHE:O	1:G:182:ASN:N	2.47	0.43
1:G:533:LEU:HD12	1:G:533:LEU:C	2.39	0.43
1:K:904:GLU:HG3	1:K:906:TYR:HE1	1.84	0.43
1:E:538:TYR:O	1:E:567:VAL:HA	2.19	0.43
1:I:786:ARG:HB2	1:I:934:GLU:HB2	2.01	0.43
1:L:147:ASN:HA	1:L:148:SER:HA	1.76	0.43
1:D:27:LEU:N	1:D:27:LEU:CD2	2.79	0.43
1:B:868:VAL:O	1:B:1015:HIS:HA	2.19	0.43
1:H:225:PHE:O	1:H:226:HIS:HD2	2.02	0.43
1:O:34:ALA:HA	1:O:51:LEU:HD22	2.01	0.43
1:D:141:ILE:CG1	1:D:214:LEU:HD23	2.48	0.43
1:D:141:ILE:HG13	1:D:214:LEU:HD23	2.00	0.43
1:F:100:TYR:HB2	1:F:203:TRP:CE3	2.54	0.43
1:A:382:ASN:O	1:A:383:ASN:HB2	2.17	0.43
1:D:668:VAL:HG13	1:D:669:PRO:HD2	2.01	0.43
1:A:66:PRO:O	1:A:69:VAL:HG23	2.18	0.43
1:H:278:ILE:H	1:H:278:ILE:HD12	1.83	0.43
1:E:995:GLY:C	1:E:997:ASP:H	2.21	0.43
1:G:610:ASP:OD1	1:G:612:THR:HG23	2.19	0.43
1:G:544:ASN:HB2	1:G:929:TYR:CE2	2.54	0.43
1:G:139:THR:HG21	1:G:177:LEU:CD1	2.49	0.43
1:D:879:PRO:O	1:D:1009:LEU:HD12	2.18	0.43
1:A:874:SER:HB3	1:B:724:GLU:OE1	2.19	0.43
1:A:472:TYR:HD1	1:A:484:VAL:HG11	1.83	0.43
1:J:257:THR:HA	1:J:270:GLY:O	2.19	0.43
1:A:843:GLN:HB3	1:A:847:LYS:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:933:SER:O	1:N:934:GLU:C	2.55	0.43
1:B:967:LEU:HD23	1:B:967:LEU:HA	1.67	0.43
1:L:279:ILE:HD12	1:L:279:ILE:HG21	1.78	0.43
1:M:643:LEU:HD23	1:M:643:LEU:HA	1.85	0.43
1:P:254:LEU:HD23	1:P:254:LEU:HA	1.71	0.43
1:P:316:HIS:HD2	1:P:317:THR:O	2.01	0.42
1:M:35:SER:OG	1:M:217:LYS:HG2	2.19	0.42
1:M:310:ARG:HD3	1:M:310:ARG:HH11	1.71	0.42
1:M:567:VAL:HG12	1:M:568:TRP:N	2.33	0.42
1:H:324:GLU:HG2	1:H:325:ALA:N	2.34	0.42
1:G:138:GLN:NE2	1:G:172:ASP:OD2	2.46	0.42
1:E:73:TRP:CZ3	1:E:187:MET:HB2	2.54	0.42
1:E:78:LEU:CB	1:E:79:PRO:HD2	2.47	0.42
1:K:768:MET:HG2	1:K:775:GLN:HG3	1.97	0.42
1:K:23:GLN:HB3	1:K:26:ARG:NH2	2.23	0.42
1:H:164:ASP:OD1	1:H:414:ASN:ND2	2.48	0.42
1:H:251:ARG:CB	1:H:253:TYR:CE1	2.96	0.42
1:L:583:ASN:HA	1:L:584:PRO:HD3	1.92	0.42
1:G:84:VAL:CG1	1:G:85:VAL:N	2.79	0.42
1:K:141:ILE:HB	1:K:173:LEU:HD12	2.01	0.42
1:H:778:THR:HG22	1:H:779:PRO:CD	2.41	0.42
1:E:475:ILE:O	1:E:479:ASP:N	2.34	0.42
1:M:256:VAL:HB	1:M:272:ALA:O	2.19	0.42
1:M:506:VAL:HG12	1:M:507:ASP:CG	2.38	0.42
1:D:57:GLU:HG2	1:D:83:THR:HG22	1.98	0.42
1:H:369:GLU:O	1:H:373:VAL:HG23	2.18	0.42
1:M:59:ARG:NH2	1:M:81:ALA:CB	2.79	0.42
1:H:823:LEU:N	1:H:823:LEU:HD23	2.33	0.42
1:B:768:MET:CE	1:B:1022:GLN:NE2	2.82	0.42
1:M:646:HIS:CD2	1:M:647:SER:N	2.87	0.42
1:A:608:PHE:O	1:A:611:ARG:N	2.35	0.42
1:B:833:ALA:CB	1:B:859:ASP:HA	2.49	0.42
1:N:928:PRO:O	1:N:973:ARG:NH1	2.44	0.42
1:I:257:THR:HG23	1:I:271:THR:OG1	2.19	0.42
1:P:866:ILE:HG22	1:P:867:THR:H	1.84	0.42
1:F:937:LEU:HA	1:F:937:LEU:HD12	1.84	0.42
1:F:287:ASP:OD2	1:G:425:ARG:NH2	2.52	0.42
1:P:870:VAL:CG1	1:P:871:GLU:H	2.30	0.42
1:N:36:TRP:CE2	1:N:42:ALA:HA	2.54	0.42
1:H:210:ARG:O	1:H:211:ASP:C	2.56	0.42
1:F:766:SER:O	1:F:767:GLN:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:391:HIS:ND1	1:O:412:GLU:OE2	2.51	0.42
1:M:85:VAL:O	1:M:88:SER:HB3	2.18	0.42
1:D:878:HIS:ND1	1:D:878:HIS:N	2.62	0.42
1:A:199:ASP:HB3	1:A:416:GLU:HG2	2.01	0.42
1:I:881:ARG:C	1:I:882:ILE:HG13	2.40	0.42
1:F:391:HIS:CE1	1:F:460:ASN:ND2	2.87	0.42
1:G:572:ASP:OD1	1:G:603:MET:HB3	2.19	0.42
1:F:672:VAL:HG13	1:F:678:GLN:HB2	2.00	0.42
1:G:460:ASN:ND2	1:G:461:GLU:HG3	2.34	0.42
1:L:663:LEU:HD11	1:L:688:PRO:HG2	2.01	0.42
1:C:469:ASP:O	1:C:470:ALA:C	2.56	0.42
1:L:399:TYR:HB3	1:L:450:HIS:CD2	2.54	0.42
1:D:608:PHE:O	1:D:611:ARG:N	2.33	0.42
1:A:738:PRO:HB2	1:A:834:VAL:CG2	2.48	0.42
1:F:399:TYR:HE2	1:F:446:ARG:NH2	2.17	0.42
1:O:209:PHE:HB2	1:O:366:VAL:HG22	2.01	0.42
1:O:443:MET:CE	1:O:456:TRP:CE3	3.02	0.42
1:E:473:ARG:HA	1:E:473:ARG:HD3	1.67	0.42
1:K:693:GLN:HB3	1:K:695:TRP:NE1	2.34	0.42
1:K:91:GLN:HG3	1:K:96:ASP:OD1	2.19	0.42
1:B:925:MET:HB3	3:B:1276:HOH:O	2.18	0.42
1:I:736:ALA:O	1:I:737:ILE:HG22	2.19	0.42
1:L:634:GLN:HB3	1:L:634:GLN:HE21	1.56	0.42
1:C:619:GLU:OE1	1:C:619:GLU:HA	2.18	0.42
1:D:658:LEU:O	1:D:659:ASP:C	2.57	0.42
1:K:194:GLY:O	1:K:198:GLU:HG3	2.19	0.42
1:M:143:PHE:CD2	1:M:212:VAL:HG22	2.54	0.42
1:M:9:VAL:O	1:M:12:GLN:N	2.46	0.42
1:P:35:SER:OG	1:P:324:GLU:OE2	2.30	0.42
1:P:36:TRP:CD2	1:P:42:ALA:HA	2.54	0.42
1:P:353:GLY:O	1:P:567:VAL:N	2.49	0.42
1:P:375:ASP:O	1:P:379:MET:HG2	2.17	0.42
1:P:625:GLN:HE22	1:P:717:TRP:H	1.67	0.42
1:I:369:GLU:O	1:I:373:VAL:N	2.46	0.42
1:H:254:LEU:O	1:H:255:ARG:HD3	2.19	0.42
1:P:391:HIS:HE2	1:P:460:ASN:ND2	2.15	0.42
1:O:460:ASN:HD21	1:O:461:GLU:HG3	1.76	0.42
1:D:767:GLN:HA	1:D:776:LEU:HD12	2.02	0.42
1:F:948:PRO:CD	1:F:949:HIS:H	2.32	0.42
1:H:959:ILE:HG23	1:H:959:ILE:O	2.19	0.42
1:I:74:LEU:O	1:I:183:ARG:NH1	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:658:LEU:HD11	1:K:692:GLY:CA	2.40	0.42
1:P:645:ARG:NH1	1:P:648:ASP:OD1	2.52	0.42
1:E:651:LEU:HD12	1:E:652:LEU:N	2.35	0.42
1:C:598:ASP:O	1:C:601:PHE:HB2	2.19	0.42
1:N:166:ARG:HB2	1:N:414:ASN:ND2	2.35	0.42
1:H:99:ILE:N	1:H:99:ILE:HD12	2.34	0.42
1:L:78:LEU:HB3	1:L:79:PRO:CD	2.42	0.42
1:E:579:ASP:OD1	1:E:582:GLY:N	2.52	0.42
1:L:930:VAL:HA	1:L:973:ARG:HD3	1.99	0.42
1:F:588:TYR:O	1:F:589:GLY:C	2.57	0.42
1:D:927:THR:HA	1:D:928:PRO:HD2	1.68	0.42
1:K:127:PHE:CE1	1:K:184:LEU:CD1	3.02	0.42
1:M:764:PHE:CZ	1:M:840:HIS:CD2	3.07	0.42
1:M:789:LEU:N	1:M:792:ASP:OD2	2.34	0.42
1:C:694:LEU:HA	1:C:694:LEU:HD12	1.52	0.42
1:E:684:GLU:O	1:E:685:LEU:HD23	2.20	0.42
1:M:473:ARG:HD2	1:P:469:ASP:HB3	2.01	0.42
1:L:782:ASP:HB3	1:L:784:PHE:CZ	2.54	0.42
1:O:362:LEU:HG	1:O:576:ILE:CD1	2.47	0.42
1:K:651:LEU:N	1:K:701:VAL:O	2.46	0.42
1:A:11:LEU:O	1:A:12:GLN:C	2.56	0.42
1:A:698:VAL:HG23	1:A:698:VAL:O	2.19	0.42
1:K:473:ARG:O	1:K:474:TRP:C	2.57	0.42
1:L:160:GLY:HA3	1:L:171:PHE:CE2	2.54	0.42
1:L:413:ALA:CA	1:L:443:MET:HE2	2.49	0.42
1:F:257:THR:HG22	1:F:258:VAL:N	2.33	0.42
1:G:41:GLU:HA	1:G:46:ARG:HG3	2.01	0.42
1:C:372:MET:O	1:C:376:ILE:HG13	2.19	0.42
1:O:475:ILE:HG21	1:O:475:ILE:HD13	1.83	0.42
1:C:906:TYR:HB3	1:C:907:PRO:CD	2.47	0.42
1:N:906:TYR:HB3	1:N:907:PRO:CD	2.49	0.42
1:I:513:PRO:C	1:I:515:VAL:H	2.22	0.42
1:D:316:HIS:ND1	1:D:316:HIS:N	2.67	0.42
1:J:571:VAL:HG11	1:J:611:ARG:CZ	2.49	0.42
1:I:817:GLN:HE21	1:I:817:GLN:HB2	1.44	0.42
1:G:750:GLU:HG2	1:G:755:ARG:HG2	2.02	0.42
1:H:231:PHE:CD1	1:H:231:PHE:N	2.87	0.42
1:E:385:ASN:HD22	1:E:385:ASN:HA	1.07	0.42
1:C:137:GLY:HA3	1:C:217:LYS:O	2.19	0.42
1:I:3:ILE:HG13	1:I:3:ILE:O	2.16	0.42
1:I:6:SER:OG	1:I:9:VAL:N	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:806:TRP:O	1:N:807:VAL:C	2.57	0.42
1:O:620:ALA:O	1:O:621:LYS:C	2.56	0.42
1:N:837:THR:C	1:N:838:THR:HG23	2.40	0.42
1:O:443:MET:HE2	1:O:456:TRP:CE3	2.54	0.42
1:J:420:MET:HE3	1:J:420:MET:HA	2.01	0.42
1:J:91:GLN:C	1:J:93:HIS:H	2.22	0.42
1:L:944:LEU:O	1:L:950:GLN:HA	2.20	0.42
1:H:380:LYS:HE3	1:H:406:GLY:O	2.19	0.42
1:L:1000:SER:O	1:L:1001:PRO:C	2.56	0.42
1:M:738:PRO:N	1:M:751:LEU:HD13	2.34	0.42
1:O:67:GLU:H	1:O:67:GLU:HG3	1.23	0.42
1:A:350:LEU:HA	1:A:350:LEU:HD12	1.69	0.42
1:N:252:ASP:OD1	1:N:252:ASP:N	2.47	0.42
1:L:845:GLN:HG2	1:L:845:GLN:O	2.19	0.42
1:C:111:PRO:HA	1:C:112:PRO:HA	1.83	0.42
1:C:118:ASN:HA	1:C:119:PRO:HD2	1.79	0.42
1:E:429:ASP:HA	1:E:430:PRO:HD3	1.57	0.42
1:K:37:ARG:HH22	1:K:217:LYS:HA	1.84	0.42
1:E:36:TRP:CE2	1:E:42:ALA:HA	2.55	0.42
1:M:589:GLY:HA3	1:M:599:ARG:HA	2.02	0.42
1:M:597:ASN:ND2	1:M:599:ARG:H	2.17	0.42
1:P:793:ILE:H	1:P:793:ILE:HG13	1.62	0.42
1:P:246:MET:CG	1:P:274:PHE:CE2	3.02	0.42
1:K:427:THR:O	1:K:465:GLY:HA3	2.19	0.42
1:K:742:THR:HG23	1:K:747:PHE:CD1	2.54	0.42
1:E:599:ARG:HB2	1:E:600:GLN:H	1.33	0.42
1:E:99:ILE:H	1:E:99:ILE:HD12	1.83	0.42
1:B:436:MET:HE1	1:B:467:ASN:HB2	2.01	0.42
1:F:890:GLN:CG	1:F:891:VAL:N	2.83	0.42
1:L:6:SER:O	1:L:8:ALA:N	2.52	0.42
1:P:127:PHE:N	1:P:127:PHE:CD1	2.87	0.42
1:C:100:TYR:CE1	1:C:598:ASP:HB2	2.54	0.42
1:J:228:ALA:C	1:J:229:THR:HG23	2.40	0.42
1:H:91:GLN:CG	1:H:190:ARG:HH21	2.30	0.42
1:P:205:MET:HE1	1:P:365:GLN:N	2.35	0.42
1:J:701:VAL:HG22	1:J:714:ILE:CD1	2.49	0.42
1:O:653:HIS:CD2	1:O:667:GLU:CG	3.00	0.42
1:K:246:MET:HB3	1:K:274:PHE:CZ	2.54	0.42
1:J:498:ILE:CG2	1:J:499:ILE:N	2.80	0.42
1:P:765:LEU:HD12	1:P:766:SER:H	1.84	0.42
1:B:201:ASP:O	1:B:202:MET:HB3	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:55:ASN:ND2	1:A:87:PRO:HD3	2.33	0.42
1:K:970:THR:HG21	1:K:976:LEU:HD23	2.01	0.42
1:H:363:HIS:N	1:H:363:HIS:CD2	2.81	0.42
1:D:393:PRO:HD2	1:D:414:ASN:HB2	2.00	0.42
1:E:487:GLU:O	1:E:491:ALA:N	2.45	0.42
1:A:232:ASN:HD21	1:A:237:ARG:HG2	1.84	0.42
1:N:262:GLN:HB2	1:N:309:TYR:HE1	1.84	0.42
1:I:308:LEU:HD23	1:I:308:LEU:HA	1.70	0.42
1:O:14:ARG:HG2	1:O:14:ARG:HH11	1.83	0.42
1:N:775:GLN:HE21	1:N:775:GLN:N	2.17	0.42
1:M:843:GLN:HA	1:M:847:LYS:O	2.19	0.42
1:D:487:GLU:O	1:D:491:ALA:N	2.49	0.42
1:D:352:ARG:CZ	1:D:626:PHE:CE1	3.02	0.42
1:B:400:THR:O	1:B:403:ASP:HB2	2.18	0.42
1:P:501:PRO:O	1:P:535:LEU:HA	2.19	0.42
1:J:777:LEU:HA	1:J:777:LEU:HD23	1.75	0.42
1:N:585:TRP:CD1	1:N:585:TRP:N	2.87	0.42
1:L:719:GLN:HG2	3:L:1249:HOH:O	2.18	0.42
1:O:673:ALA:O	1:O:676:GLY:N	2.48	0.42
1:E:513:PRO:O	1:E:515:VAL:N	2.42	0.42
1:I:524:LEU:HD21	1:I:533:LEU:HB3	2.01	0.42
1:G:424:ASN:ND2	1:G:464:HIS:O	2.52	0.42
1:B:91:GLN:NE2	1:B:96:ASP:OD1	2.52	0.42
1:B:230:ARG:O	1:B:238:ALA:HA	2.20	0.42
1:B:786:ARG:HD3	1:B:880:ALA:HB1	2.01	0.42
1:D:770:ILE:HD11	1:D:1022:GLN:HG2	2.01	0.42
1:M:923:SER:C	1:M:925:MET:H	2.22	0.42
1:G:111:PRO:HA	1:G:112:PRO:HA	1.66	0.42
1:K:518:TRP:CE3	1:K:522:LYS:HE2	2.54	0.42
1:A:639:THR:O	1:A:639:THR:HG22	2.10	0.42
1:I:60:PHE:CG	1:I:61:ALA:N	2.88	0.42
1:F:616:ALA:O	1:F:617:LEU:C	2.57	0.42
1:K:454:ILE:HD12	1:K:455:ILE:HG12	2.00	0.42
1:J:386:ALA:HB2	1:J:408:TYR:HB2	2.00	0.42
1:J:101:THR:HG21	1:J:104:THR:HB	2.01	0.42
1:F:153:TRP:HB2	1:F:185:ALA:HB3	2.02	0.42
1:K:37:ARG:NH2	1:K:216:HIS:O	2.52	0.42
1:K:36:TRP:NE1	1:K:46:ARG:O	2.50	0.42
1:I:134:LEU:CD1	1:I:179:ALA:H	2.32	0.42
1:H:436:MET:HE3	1:H:467:ASN:HD22	1.84	0.42
1:P:542:MET:CA	1:P:604:ASN:HA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:36:TRP:HD1	1:F:41:GLU:HB3	1.81	0.42
1:M:652:LEU:O	1:M:667:GLU:HA	2.19	0.42
1:E:152:LEU:HG	1:E:159:VAL:HB	2.01	0.42
1:E:128:ASN:HD21	1:E:180:GLY:HA2	1.75	0.42
1:L:361:PRO:HD2	1:L:362:LEU:H	1.84	0.42
1:E:89:ASN:HB2	1:E:92:MET:HG2	2.02	0.42
1:B:128:ASN:HA	1:B:180:GLY:O	2.19	0.42
1:I:652:LEU:HD23	1:I:680:ILE:HD13	2.02	0.42
1:F:168:PRO:O	1:F:442:ARG:NH2	2.51	0.42
1:G:906:TYR:CE1	1:G:937:LEU:HB3	2.54	0.42
1:F:16:TRP:CD1	1:F:17:GLU:HG2	2.54	0.42
1:I:577:LYS:N	1:I:585:TRP:O	2.49	0.42
1:I:577:LYS:HE3	1:I:591:ASP:O	2.19	0.42
1:B:292:ARG:O	1:B:293:LEU:HD23	2.18	0.42
1:P:331:GLY:HA3	1:P:451:PRO:HB3	2.00	0.42
1:C:474:TRP:CE2	1:C:478:VAL:HG21	2.55	0.42
1:E:127:PHE:CE1	1:E:184:LEU:HG	2.54	0.42
1:E:284:GLY:CA	1:H:422:PRO:HG3	2.50	0.42
1:F:83:THR:O	1:F:84:VAL:HG23	2.19	0.42
1:C:66:PRO:HD2	1:C:67:GLU:HG2	2.01	0.42
1:J:87:PRO:O	1:J:88:SER:HB3	2.20	0.42
1:M:910:LEU:O	1:M:910:LEU:HD12	2.19	0.42
1:J:742:THR:CG2	1:J:747:PHE:HE1	2.31	0.42
1:G:128:ASN:ND2	1:G:180:GLY:CA	2.81	0.42
1:L:768:MET:O	1:L:775:GLN:HG2	2.19	0.42
1:K:190:ARG:HG2	1:K:206:SER:CB	2.49	0.42
1:G:36:TRP:CE3	1:G:42:ALA:CB	3.02	0.42
1:N:57:GLU:HA	1:N:84:VAL:O	2.19	0.42
1:B:869:ASP:CG	1:B:1015:HIS:HD1	2.23	0.42
1:J:655:MET:HB2	1:J:665:SER:HA	2.02	0.42
1:K:807:VAL:HG13	1:K:808:GLU:N	2.35	0.42
1:M:639:THR:OG1	1:M:677:LYS:HG2	2.19	0.42
1:H:413:ALA:CA	1:H:443:MET:CE	2.98	0.42
1:I:542:MET:HG3	1:I:603:MET:O	2.19	0.42
1:F:252:ASP:O	1:F:255:ARG:NH1	2.50	0.42
1:L:738:PRO:N	1:L:751:LEU:CD1	2.83	0.42
1:K:272:ALA:HB1	1:K:273:PRO:CD	2.46	0.42
1:O:881:ARG:HD3	1:O:987:ASP:OD1	2.20	0.42
1:F:30:HIS:HB2	1:F:31:PRO:CD	2.48	0.42
1:D:542:MET:HA	1:D:604:ASN:HA	2.01	0.42
1:O:271:THR:O	1:O:272:ALA:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:801:ILE:HG23	1:A:808:GLU:CD	2.39	0.42
1:L:937:LEU:HG	1:L:938:ARG:H	1.83	0.42
1:D:878:HIS:HB3	3:D:1217:HOH:O	2.19	0.42
1:I:876:THR:OG1	1:I:877:PRO:HD2	2.19	0.42
1:C:673:ALA:O	1:C:676:GLY:N	2.53	0.42
1:P:550:ALA:HA	1:P:623:GLN:OE1	2.19	0.42
1:G:719:GLN:OE1	1:G:914:CYS:HA	2.19	0.42
1:A:30:HIS:ND1	1:A:31:PRO:O	2.47	0.42
1:G:382:ASN:CG	1:G:617:LEU:HD21	2.39	0.42
1:I:367:MET:CB	1:I:372:MET:HE2	2.49	0.42
1:F:352:ARG:NH2	1:F:641:GLU:OE1	2.51	0.42
1:C:894:ARG:HD3	1:C:919:ASP:OD2	2.18	0.42
1:H:764:PHE:HA	3:H:1263:HOH:O	2.20	0.42
1:B:21:VAL:HG13	1:B:24:LEU:HD11	2.01	0.42
1:P:490:GLY:HA2	3:P:1229:HOH:O	2.18	0.42
1:D:683:PRO:O	1:D:684:GLU:C	2.55	0.42
1:B:898:LEU:O	1:B:941:THR:HG23	2.19	0.42
1:A:545:SER:HB3	1:A:546:LEU:H	1.64	0.42
1:C:338:GLU:HB3	1:C:343:LEU:HD11	2.01	0.42
1:I:802:ASP:C	1:I:804:ASN:H	2.23	0.42
1:N:995:GLY:H	1:N:1002:SER:HB2	1.85	0.42
1:F:473:ARG:HD3	1:F:473:ARG:HA	1.56	0.42
1:I:955:PHE:HB2	1:I:987:ASP:O	2.19	0.42
1:I:323:ILE:N	1:I:323:ILE:CD1	2.82	0.42
1:P:160:GLY:HA3	1:P:171:PHE:HE2	1.84	0.42
1:P:316:HIS:C	1:P:323:ILE:HD13	2.40	0.42
1:E:42:ALA:O	1:E:43:ARG:C	2.56	0.42
1:P:916:ASP:H	1:P:918:TRP:HE1	1.67	0.42
1:M:165:SER:OG	1:M:198:GLU:OE1	2.35	0.42
1:K:462:SER:HB2	3:K:1267:HOH:O	2.19	0.42
1:K:747:PHE:CE1	1:K:760:ARG:HD3	2.55	0.42
1:P:391:HIS:CD2	1:P:460:ASN:CB	3.03	0.42
1:D:762:SER:O	1:D:822:LEU:HD22	2.19	0.42
1:L:948:PRO:O	1:L:1022:GLN:HA	2.20	0.42
1:M:763:GLY:HA3	1:M:822:LEU:CD2	2.50	0.42
1:M:114:VAL:CG1	1:M:115:PRO:N	2.82	0.42
1:A:40:GLU:HG3	1:A:43:ARG:HH11	1.83	0.42
1:E:708:TRP:N	1:E:708:TRP:CD1	2.87	0.42
1:P:949:HIS:HD2	1:P:1020:TRP:CE2	2.37	0.42
1:G:763:GLY:O	1:G:838:THR:HG21	2.19	0.42
1:C:257:THR:HG22	1:C:258:VAL:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:429:ASP:OD1	1:C:430:PRO:HD2	2.20	0.42
1:L:59:ARG:NH2	1:L:81:ALA:CB	2.79	0.42
1:O:281:GLU:N	1:O:281:GLU:OE1	2.45	0.42
1:H:74:LEU:HA	1:H:74:LEU:HD23	1.80	0.42
1:D:433:LEU:N	1:D:434:PRO:CD	2.82	0.42
1:M:507:ASP:OD1	1:M:521:LYS:HE3	2.20	0.42
1:I:580:GLU:C	1:I:582:GLY:H	2.22	0.42
1:A:651:LEU:HD12	1:A:669:PRO:HA	2.01	0.42
1:N:658:LEU:HD11	1:N:692:GLY:HA3	2.01	0.42
1:L:385:ASN:HD22	1:L:385:ASN:HA	1.23	0.42
1:L:529:GLU:OE1	1:L:530:THR:N	2.46	0.42
1:B:395:HIS:CG	1:B:396:PRO:HD2	2.54	0.42
1:K:166:ARG:HD2	1:K:166:ARG:HA	1.68	0.42
1:B:102:ASN:C	1:B:102:ASN:HD22	2.22	0.42
1:K:486:TYR:CE1	1:K:488:GLY:CA	3.00	0.42
1:L:31:PRO:HB3	1:L:32:PRO:HD2	2.01	0.42
1:O:132:SER:OG	1:O:133:TRP:HD1	2.02	0.42
1:H:966:GLN:O	1:H:967:LEU:C	2.57	0.42
1:I:695:TRP:NE1	1:I:915:PHE:CD2	2.87	0.42
1:E:139:THR:N	1:E:174:SER:OG	2.30	0.42
1:N:679:LEU:HA	1:N:679:LEU:HD23	1.29	0.42
1:A:295:VAL:HG12	1:A:296:GLU:N	2.34	0.42
1:M:942:ARG:HA	1:M:953:GLY:O	2.19	0.42
1:H:870:VAL:CG1	1:H:871:GLU:N	2.83	0.42
1:G:433:LEU:N	1:G:434:PRO:CD	2.83	0.42
1:J:767:GLN:HG3	1:J:768:MET:N	2.34	0.42
1:H:513:PRO:O	1:H:515:VAL:N	2.51	0.42
1:F:859:ASP:CG	1:F:861:SER:H	2.23	0.42
1:J:272:ALA:HA	1:J:273:PRO:HD3	1.90	0.42
1:K:1018:LEU:HD22	1:K:1019:VAL:N	2.34	0.42
1:G:474:TRP:CE2	1:G:478:VAL:HG21	2.54	0.42
1:I:377:LEU:HD22	1:I:708:TRP:HB2	2.00	0.42
1:D:85:VAL:CG1	1:D:86:VAL:N	2.80	0.42
1:A:576:ILE:HG23	1:A:577:LYS:N	2.34	0.42
1:A:418:HIS:O	1:D:282:ARG:HD3	2.19	0.42
1:J:851:ILE:HB	1:J:871:GLU:HB2	2.01	0.42
1:K:967:LEU:HA	1:K:967:LEU:HD23	1.72	0.42
1:P:985:ASN:N	1:P:985:ASN:ND2	2.67	0.42
1:B:190:ARG:HG3	1:B:206:SER:OG	2.20	0.42
1:A:89:ASN:HD22	1:A:206:SER:H	1.68	0.42
1:A:111:PRO:HA	1:A:112:PRO:HA	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:559:TYR:CD1	1:C:559:TYR:N	2.87	0.42
1:I:777:LEU:HA	1:I:777:LEU:HD23	1.77	0.42
1:A:636:ILE:HD13	1:A:636:ILE:HG21	1.70	0.42
1:D:968:MET:HG3	1:D:968:MET:O	2.18	0.42
1:I:315:LEU:C	1:I:315:LEU:HD12	2.40	0.42
1:M:120:THR:HG23	1:M:187:MET:HE2	2.01	0.42
1:P:139:THR:HA	1:P:215:LEU:O	2.18	0.42
1:M:413:ALA:CA	1:M:443:MET:HE1	2.50	0.42
1:I:395:HIS:HE1	1:I:397:LEU:HB3	1.82	0.42
1:P:204:ARG:HG3	1:P:204:ARG:NH1	2.17	0.42
1:L:949:HIS:CD2	1:L:1020:TRP:CZ2	3.07	0.42
1:D:625:GLN:HE22	1:D:717:TRP:H	1.67	0.42
1:O:424:ASN:O	1:O:425:ARG:C	2.58	0.42
1:N:114:VAL:HG22	1:N:115:PRO:CD	2.40	0.42
1:K:173:LEU:HD23	1:K:173:LEU:HA	1.87	0.42
1:I:487:GLU:HB3	3:I:1217:HOH:O	2.19	0.42
1:K:126:THR:HG23	1:K:127:PHE:N	2.34	0.42
1:H:424:ASN:HA	1:H:424:ASN:HD22	1.34	0.42
1:A:360:HIS:CE1	1:A:361:PRO:HD2	2.53	0.42
1:B:763:GLY:CA	1:B:822:LEU:HD21	2.49	0.42
1:K:165:SER:C	1:K:166:ARG:HD2	2.40	0.42
1:A:653:HIS:O	1:A:698:VAL:HA	2.19	0.42
1:L:27:LEU:HD12	1:L:140:ARG:HH11	1.83	0.42
1:E:451:PRO:O	1:E:452:SER:C	2.56	0.42
1:D:701:VAL:O	1:D:703:PRO:HD3	2.20	0.42
1:O:132:SER:N	1:O:135:GLN:NE2	2.67	0.42
1:H:834:VAL:O	1:H:857:ARG:HA	2.20	0.42
1:I:27:LEU:HA	1:I:27:LEU:HD23	1.77	0.42
1:F:825:CYS:O	1:F:826:THR:HG22	2.19	0.42
1:C:916:ASP:HB3	1:C:918:TRP:CZ2	2.55	0.42
1:I:927:THR:HA	1:I:928:PRO:HD2	1.89	0.42
1:K:959:ILE:O	1:K:959:ILE:HG23	2.20	0.42
1:N:261:TRP:HE3	1:N:265:THR:O	2.02	0.42
1:F:210:ARG:HH11	1:F:395:HIS:CA	2.31	0.42
1:O:881:ARG:HB3	1:O:990:HIS:CD2	2.54	0.42
1:F:767:GLN:HG3	1:F:768:MET:N	2.34	0.42
1:G:595:THR:CG2	1:G:596:PRO:HA	2.48	0.42
1:N:906:TYR:N	1:N:906:TYR:CD1	2.86	0.42
1:I:338:GLU:HG2	1:I:338:GLU:O	2.20	0.42
1:D:735:HIS:O	1:D:736:ALA:HB2	2.18	0.42
1:I:764:PHE:O	1:I:765:LEU:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:269:SER:OG	1:G:270:GLY:N	2.53	0.42
1:D:584:PRO:O	1:D:585:TRP:HB3	2.18	0.42
1:A:411:ASP:OD2	1:A:447:ASP:OD2	2.37	0.42
1:D:224:ASP:OD1	1:D:225:PHE:N	2.52	0.42
1:D:482:ARG:HA	1:D:483:PRO:HD3	1.88	0.42
1:I:510:GLN:N	1:I:511:PRO:HD3	2.35	0.42
1:F:749:ILE:HD13	1:F:749:ILE:N	2.35	0.42
1:C:787:ALA:HA	1:C:788:PRO:HD3	1.87	0.42
1:O:507:ASP:OD1	1:O:521:LYS:HE3	2.19	0.42
1:I:173:LEU:O	1:I:174:SER:C	2.58	0.42
1:M:376:ILE:HG21	1:M:405:TYR:CD2	2.54	0.42
1:C:456:TRP:NE1	1:C:482:ARG:HD2	2.34	0.42
1:C:49:GLN:HG2	1:C:49:GLN:H	1.53	0.42
1:K:376:ILE:HD13	1:K:376:ILE:HG21	1.68	0.42
1:B:349:LEU:HD23	1:B:349:LEU:HA	1.71	0.42
1:D:623:GLN:HA	1:D:623:GLN:OE1	2.19	0.42
1:P:900:LEU:HA	1:P:914:CYS:O	2.19	0.42
1:P:778:THR:HB	1:P:887:GLN:H	1.83	0.42
1:P:656:VAL:HG21	1:P:685:LEU:HD22	2.01	0.42
1:K:310:ARG:HG3	1:K:311:ALA:N	2.34	0.42
1:A:202:MET:CE	1:A:392:TYR:CE2	3.02	0.42
1:M:540:HIS:ND1	1:M:998:SER:CB	2.83	0.42
1:M:354:VAL:HA	1:M:567:VAL:H	1.84	0.42
1:M:227:VAL:CG1	1:M:240:LEU:HD11	2.32	0.42
1:E:227:VAL:CG1	1:E:228:ALA:N	2.82	0.42
1:J:690:SER:O	1:J:691:ALA:C	2.54	0.42
1:M:822:LEU:CD1	1:M:823:LEU:N	2.80	0.42
1:I:66:PRO:HD2	1:I:67:GLU:OE2	2.20	0.42
1:G:227:VAL:HG12	1:G:228:ALA:H	1.83	0.42
1:N:225:PHE:C	1:N:226:HIS:HD2	2.23	0.42
1:H:165:SER:O	1:H:166:ARG:HD2	2.18	0.42
1:J:597:ASN:ND2	1:J:599:ARG:N	2.57	0.42
1:D:210:ARG:HH12	1:D:394:ASN:HA	1.85	0.42
1:J:187:MET:HG2	1:J:189:LEU:HD21	2.02	0.42
1:K:857:ARG:CG	1:K:857:ARG:NH1	2.80	0.42
1:G:740:LEU:CG	1:G:741:THR:N	2.82	0.42
1:H:433:LEU:N	1:H:434:PRO:HD2	2.34	0.42
1:I:245:GLN:HG2	1:I:288:ARG:CG	2.49	0.42
1:E:210:ARG:O	1:E:211:ASP:O	2.38	0.42
1:N:657:ALA:HA	1:N:661:LYS:O	2.19	0.42
1:P:205:MET:HB3	1:P:206:SER:H	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:90:TRP:NE1	1:I:96:ASP:OD1	2.52	0.42
1:E:410:VAL:HG22	1:E:455:ILE:HB	2.02	0.42
1:L:557:ARG:NE	1:L:641:GLU:OE2	2.44	0.42
1:O:701:VAL:HG12	1:O:702:GLN:N	2.35	0.42
1:B:701:VAL:HG12	1:B:702:GLN:N	2.34	0.42
1:P:18:ASN:CB	1:P:21:VAL:HG23	2.49	0.42
1:G:570:TRP:CD1	1:G:571:VAL:CG2	3.00	0.42
1:M:351:ILE:HA	1:M:385:ASN:HD22	1.85	0.42
1:L:745:MET:CE	1:L:761:GLN:NE2	2.83	0.42
1:N:902:PRO:HD3	1:N:918:TRP:CZ3	2.54	0.42
1:B:390:SER:CB	1:B:391:HIS:CE1	3.00	0.42
1:P:240:LEU:HD12	1:P:241:GLU:N	2.32	0.42
1:L:262:GLN:NE2	1:L:299:LYS:HD2	2.30	0.42
1:G:44:THR:OG1	1:G:46:ARG:HG2	2.20	0.42
1:I:300:LEU:HG	1:I:300:LEU:H	1.74	0.42
1:D:237:ARG:NH1	1:D:237:ARG:CG	2.83	0.42
1:J:424:ASN:O	1:J:426:LEU:N	2.53	0.42
1:N:674:PRO:O	1:N:675:GLN:HB2	2.20	0.42
1:A:807:VAL:CG1	1:A:808:GLU:N	2.80	0.42
1:N:366:VAL:HA	3:N:1279:HOH:O	2.20	0.42
1:M:962:TYR:CE2	1:M:976:LEU:HB3	2.54	0.42
1:L:540:HIS:HD2	1:L:568:TRP:CD1	2.35	0.42
1:E:131:GLU:O	1:E:134:LEU:HB2	2.19	0.42
1:J:271:THR:O	1:J:272:ALA:HB2	2.20	0.42
1:E:810:TRP:CZ2	1:E:991:MET:HE1	2.54	0.42
1:O:251:ARG:CB	1:O:253:TYR:CE1	3.02	0.42
1:B:5:ASP:CG	1:B:158:TRP:H	2.23	0.42
1:D:282:ARG:HD3	1:D:282:ARG:HH11	1.65	0.42
1:J:238:ALA:C	1:J:239:VAL:HG23	2.40	0.42
1:O:36:TRP:CD1	1:O:41:GLU:HB3	2.54	0.42
1:C:697:THR:OG1	1:C:719:GLN:HB2	2.20	0.42
1:I:10:VAL:O	1:I:13:ARG:HG3	2.19	0.42
1:I:910:LEU:HA	3:I:1283:HOH:O	2.20	0.42
1:C:473:ARG:NH1	1:C:477:SER:OG	2.52	0.42
1:A:950:GLN:OE1	1:A:952:ARG:NH2	2.52	0.42
1:D:149:ALA:O	1:D:150:PHE:HB3	2.19	0.42
1:M:950:GLN:HG2	1:M:951:TRP:N	2.32	0.42
1:J:518:TRP:O	1:J:519:SER:C	2.57	0.42
1:O:901:GLY:HA3	1:O:902:PRO:HA	1.89	0.42
1:J:526:LEU:O	1:J:527:PRO:C	2.57	0.42
1:J:51:LEU:HD12	1:J:51:LEU:HA	1.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:51:LEU:HD12	1:D:51:LEU:HA	1.60	0.42
1:G:476:LYS:HA	1:G:476:LYS:HD2	1.82	0.42
1:D:526:LEU:HA	1:D:526:LEU:HD23	1.88	0.42
1:M:244:VAL:CG1	1:M:245:GLN:N	2.82	0.42
1:P:844:HIS:O	1:P:845:GLN:C	2.58	0.42
1:D:572:ASP:OD1	1:D:603:MET:HB3	2.20	0.42
1:M:11:LEU:O	1:M:12:GLN:C	2.57	0.42
1:P:655:MET:HG3	1:P:664:ALA:O	2.19	0.42
1:M:27:LEU:HB3	1:M:28:ALA:H	1.47	0.42
1:H:466:ALA:O	1:H:467:ASN:C	2.57	0.42
1:M:600:GLN:HB2	1:M:600:GLN:HE21	1.71	0.42
1:P:697:THR:CG2	1:P:698:VAL:N	2.82	0.42
1:K:837:THR:HG22	1:K:837:THR:O	2.19	0.42
1:N:232:ASN:OD1	1:N:237:ARG:O	2.38	0.42
1:E:590:GLY:C	1:E:592:PHE:H	2.23	0.42
1:M:603:MET:CE	1:M:930:VAL:CG1	2.98	0.42
1:E:123:TYR:O	1:E:124:SER:HB3	2.20	0.42
1:H:14:ARG:NH1	1:H:16:TRP:CZ2	2.80	0.42
1:I:608:PHE:O	1:I:610:ASP:N	2.52	0.42
1:K:696:LEU:HB2	1:K:722:LEU:HD11	2.02	0.42
1:O:822:LEU:HA	1:O:822:LEU:HD13	1.81	0.42
1:M:807:VAL:CG1	1:M:808:GLU:N	2.81	0.42
1:N:632:SER:O	1:N:635:THR:N	2.38	0.42
1:E:249:GLU:HG2	1:E:251:ARG:NH2	2.34	0.42
1:L:656:VAL:CG1	1:L:657:ALA:N	2.83	0.42
1:M:210:ARG:HH11	1:M:395:HIS:CA	2.32	0.42
1:H:7:LEU:HD12	1:H:74:LEU:HD11	2.01	0.42
1:K:635:THR:HG1	1:K:681:GLU:HG2	1.81	0.42
1:M:682:LEU:CB	1:M:683:PRO:HD2	2.42	0.42
1:H:373:VAL:HG12	1:H:377:LEU:HD11	2.01	0.42
1:A:368:ASP:O	1:A:369:GLU:C	2.57	0.42
1:N:777:LEU:HG	1:N:889:ALA:CB	2.46	0.42
1:O:701:VAL:HG12	1:O:702:GLN:H	1.85	0.42
1:A:359:HIS:CD2	1:A:360:HIS:N	2.88	0.42
1:E:768:MET:HG3	1:E:769:TRP:N	2.34	0.42
1:O:78:LEU:HD22	1:O:78:LEU:HA	1.59	0.42
1:H:902:PRO:HG3	1:H:918:TRP:CE3	2.55	0.42
1:G:316:HIS:CA	1:G:323:ILE:HD13	2.50	0.42
1:B:830:LEU:HB2	1:B:833:ALA:O	2.20	0.42
1:J:744:GLU:HA	1:J:760:ARG:NH1	2.35	0.42
1:I:502:MET:HB3	1:I:536:CYS:SG	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:347:LYS:CB	1:F:348:PRO:HD2	2.41	0.42
1:F:802:ASP:HA	1:F:803:PRO:HD2	1.68	0.42
1:M:15:ASP:O	1:M:161:TYR:OH	2.38	0.42
1:N:802:ASP:HA	1:N:803:PRO:HD2	1.56	0.42
1:F:28:ALA:O	1:F:30:HIS:HD2	2.03	0.42
1:A:768:MET:HG2	1:A:775:GLN:HB2	2.02	0.42
1:P:54:LEU:HD23	1:P:54:LEU:N	2.35	0.42
1:D:209:PHE:N	1:D:209:PHE:CD1	2.87	0.42
1:F:499:ILE:O	1:F:533:LEU:HB2	2.20	0.42
1:G:815:HIS:H	1:G:815:HIS:CD2	2.38	0.42
1:G:866:ILE:HG13	1:G:1018:LEU:HB3	2.02	0.42
1:F:608:PHE:C	1:F:610:ASP:H	2.23	0.42
1:A:917:ARG:HH22	1:A:943:GLU:CD	2.23	0.42
1:G:878:HIS:HB3	1:G:1009:LEU:O	2.20	0.42
1:D:30:HIS:ND1	1:D:31:PRO:O	2.44	0.42
1:P:836:ILE:N	1:P:836:ILE:HD13	2.35	0.42
1:H:159:VAL:HG22	1:H:176:PHE:CZ	2.54	0.42
1:J:448:ARG:HD3	1:J:448:ARG:HH11	1.65	0.42
1:F:682:LEU:HD23	1:F:683:PRO:HD3	2.02	0.42
1:J:425:ARG:HH22	1:K:287:ASP:CG	2.23	0.42
1:K:815:HIS:H	1:K:815:HIS:HD2	1.68	0.42
1:G:354:VAL:HG13	1:G:354:VAL:O	2.20	0.42
1:I:4:THR:HA	1:I:9:VAL:HG11	2.02	0.42
1:C:820:ALA:HB2	1:C:842:TRP:NE1	2.35	0.42
1:A:854:LYS:HA	1:A:867:THR:O	2.19	0.42
1:F:866:ILE:HG22	1:F:867:THR:H	1.85	0.42
1:B:231:PHE:CD1	1:B:231:PHE:N	2.87	0.42
1:G:804:ASN:O	1:G:805:ALA:C	2.55	0.42
1:F:440:VAL:CG1	1:F:475:ILE:HD11	2.49	0.42
1:B:728:VAL:HG22	1:B:728:VAL:H	1.49	0.42
1:B:378:LEU:HA	1:B:378:LEU:HD23	1.84	0.42
1:N:778:THR:HB	1:N:887:GLN:HB3	2.01	0.42
1:E:734:SER:CB	1:E:860:GLY:HA3	2.49	0.42
1:M:65:ALA:HB1	1:M:67:GLU:CG	2.46	0.42
1:P:141:ILE:HG12	1:P:214:LEU:HD23	1.99	0.42
1:M:432:TRP:C	1:M:434:PRO:HD2	2.40	0.42
1:M:422:PRO:HG2	1:P:279:ILE:HD11	2.00	0.42
1:H:221:GLN:HE21	1:H:221:GLN:HB3	1.58	0.42
1:A:894:ARG:CZ	1:A:921:PRO:HD3	2.49	0.42
1:L:205:MET:HB3	1:L:206:SER:H	1.50	0.42
1:E:91:GLN:CG	1:E:190:ARG:HH21	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:63:PHE:HB2	1:P:120:THR:HB	2.00	0.42
1:E:66:PRO:CD	1:E:67:GLU:H	2.33	0.42
1:E:66:PRO:CD	1:E:67:GLU:HG2	2.42	0.42
1:K:3:ILE:O	1:K:6:SER:HB3	2.19	0.42
1:A:43:ARG:O	1:A:310:ARG:HD3	2.19	0.42
1:J:653:HIS:NE2	1:J:667:GLU:OE2	2.49	0.42
1:H:354:VAL:HA	1:H:567:VAL:H	1.84	0.42
1:E:668:VAL:HA	1:E:669:PRO:HD3	1.82	0.42
1:A:131:GLU:CB	1:A:135:GLN:NE2	2.82	0.42
1:I:284:GLY:O	1:L:422:PRO:HD3	2.20	0.42
1:H:836:ILE:CG2	1:H:837:THR:N	2.82	0.42
1:M:304:GLU:O	1:M:305:ILE:HG12	2.19	0.42
1:H:929:TYR:O	1:H:930:VAL:C	2.59	0.42
1:F:308:LEU:HD23	1:F:308:LEU:HA	1.58	0.42
1:G:438:GLU:O	1:G:442:ARG:HG3	2.20	0.42
1:O:894:ARG:NH2	1:O:921:PRO:HD3	2.34	0.42
1:I:577:LYS:O	1:I:585:TRP:N	2.52	0.42
1:M:349:LEU:HD13	1:M:351:ILE:HD11	2.02	0.42
1:M:352:ARG:H	1:M:385:ASN:CB	2.28	0.42
1:P:952:ARG:O	1:P:1019:VAL:N	2.53	0.42
1:G:271:THR:HG22	1:G:272:ALA:N	2.35	0.42
1:H:258:VAL:HA	1:H:312:VAL:O	2.20	0.42
1:K:652:LEU:O	1:K:668:VAL:N	2.42	0.42
1:O:205:MET:O	1:O:206:SER:HB3	2.20	0.42
1:G:652:LEU:HD11	1:G:698:VAL:HB	2.02	0.42
1:J:202:MET:CE	1:J:357:HIS:HD2	2.33	0.42
1:C:397:LEU:O	1:C:398:TRP:C	2.58	0.42
1:L:738:PRO:HA	1:L:751:LEU:CD1	2.49	0.42
1:A:745:MET:HE2	1:A:761:GLN:HE22	1.85	0.42
1:O:338:GLU:O	1:O:341:LEU:HB2	2.19	0.42
1:C:352:ARG:O	1:C:385:ASN:HB2	2.20	0.42
1:D:786:ARG:HD3	1:D:880:ALA:HB1	2.01	0.42
1:J:548:GLY:O	1:J:551:LYS:HB2	2.20	0.42
1:M:14:ARG:CG	1:M:14:ARG:NH1	2.82	0.42
1:G:211:ASP:N	1:G:211:ASP:OD1	2.53	0.42
1:N:487:GLU:HG2	1:N:491:ALA:HB2	2.02	0.42
1:K:377:LEU:HD23	1:K:708:TRP:HA	2.01	0.42
1:L:515:VAL:N	1:L:516:PRO:CD	2.79	0.42
1:F:448:ARG:HH22	1:F:478:VAL:HG12	1.85	0.42
1:F:227:VAL:CG1	1:F:228:ALA:N	2.82	0.42
1:I:354:VAL:CG1	1:I:379:MET:HE1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:718:GLN:HA	1:N:718:GLN:OE1	2.19	0.42
1:E:875:ASP:OD1	1:E:875:ASP:N	2.50	0.42
1:M:810:TRP:HZ2	1:M:991:MET:CE	2.32	0.42
1:B:231:PHE:CD2	1:B:238:ALA:HB2	2.54	0.42
1:P:900:LEU:HB2	1:P:939:CYS:O	2.20	0.42
1:B:1018:LEU:HA	1:B:1018:LEU:HD23	1.66	0.42
1:E:482:ARG:HA	1:E:483:PRO:HD3	1.80	0.42
1:C:614:HIS:HB3	1:C:615:PRO:HD2	2.00	0.42
1:A:231:PHE:N	1:A:231:PHE:CD1	2.87	0.42
1:I:568:TRP:HA	1:I:569:ASP:HA	1.78	0.42
1:K:753:ASN:N	1:K:753:ASN:OD1	2.49	0.42
1:H:378:LEU:HA	1:H:378:LEU:HD23	1.82	0.42
1:L:432:TRP:HZ3	3:L:1224:HOH:O	2.01	0.42
1:P:163:GLN:NE2	1:P:193:ASP:OD1	2.50	0.42
1:P:652:LEU:HD13	1:P:700:VAL:CG2	2.50	0.42
1:M:164:ASP:OD1	1:M:167:LEU:N	2.51	0.42
1:I:84:VAL:HG12	1:I:85:VAL:N	2.34	0.42
1:K:292:ARG:NH1	1:K:292:ARG:CG	2.81	0.42
1:K:262:GLN:HE22	1:K:299:LYS:CD	2.22	0.42
1:B:782:ASP:OD2	1:B:842:TRP:HH2	2.02	0.42
1:O:103:VAL:HG22	1:O:418:HIS:CD2	2.55	0.42
1:E:378:LEU:HD23	1:E:378:LEU:HA	1.85	0.42
1:G:654:TRP:CZ3	1:G:664:ALA:HB1	2.54	0.42
1:G:685:LEU:HB3	1:G:686:PRO:CD	2.44	0.42
1:I:416:GLU:OE2	1:I:418:HIS:HB2	2.20	0.42
1:I:419:GLY:CA	1:L:282:ARG:NH1	2.78	0.42
1:J:651:LEU:HD12	1:J:652:LEU:H	1.85	0.42
1:O:842:TRP:HZ3	1:O:852:SER:CB	2.31	0.42
1:O:77:ASP:C	1:O:78:LEU:HD23	2.40	0.42
1:K:291:LEU:N	1:K:291:LEU:CD1	2.80	0.42
1:M:901:GLY:HA3	1:M:902:PRO:HA	1.89	0.42
1:G:257:THR:OG1	1:G:316:HIS:HE1	2.02	0.42
1:G:324:GLU:CG	1:G:325:ALA:N	2.82	0.42
1:G:533:LEU:CD1	1:G:534:ILE:N	2.81	0.42
1:M:948:PRO:HD2	1:M:949:HIS:H	1.81	0.42
1:G:42:ALA:O	1:G:43:ARG:C	2.54	0.42
1:M:111:PRO:HD3	1:M:196:TYR:CE2	2.54	0.42
1:G:897:TRP:CH2	1:G:918:TRP:CB	3.01	0.42
1:B:382:ASN:O	1:B:383:ASN:HB2	2.20	0.42
1:F:787:ALA:HA	1:F:788:PRO:HD3	1.80	0.42
1:E:225:PHE:N	1:E:225:PHE:CD1	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:796:SER:OG	1:G:801:ILE:HA	2.20	0.42
1:L:540:HIS:CD2	1:L:568:TRP:HD1	2.34	0.42
1:P:553:TRP:CD1	1:P:553:TRP:N	2.87	0.42
1:N:7:LEU:N	1:N:71:GLU:OE2	2.52	0.42
1:G:909:ARG:HG2	1:G:909:ARG:O	2.20	0.42
1:P:847:LYS:NZ	1:P:875:ASP:OD1	2.53	0.42
1:L:344:LEU:O	1:L:345:ASN:C	2.56	0.42
1:F:224:ASP:OD1	1:F:225:PHE:N	2.53	0.42
1:P:347:LYS:HB3	1:P:348:PRO:HD2	2.01	0.42
1:A:738:PRO:HA	1:A:751:LEU:HD12	2.02	0.42
1:L:847:LYS:HG3	1:L:848:THR:N	2.34	0.42
1:G:118:ASN:HA	1:G:119:PRO:HD2	1.91	0.42
1:I:694:LEU:HD12	1:I:694:LEU:HA	1.83	0.42
1:A:472:TYR:HD1	1:A:484:VAL:CG1	2.33	0.42
1:N:979:GLU:OE1	1:N:983:TRP:NE1	2.45	0.42
1:C:149:ALA:O	1:C:150:PHE:HB3	2.19	0.42
1:F:1005:ALA:O	1:F:1007:PHE:N	2.53	0.42
1:J:416:GLU:OE2	1:J:418:HIS:HB2	2.20	0.42
1:H:128:ASN:ND2	1:H:180:GLY:HA2	2.35	0.42
1:M:83:THR:HG22	1:M:83:THR:O	2.19	0.42
1:H:908:ASP:OD1	1:H:908:ASP:N	2.50	0.42
1:D:305:ILE:HD11	1:D:645:ARG:HB3	2.00	0.42
1:A:422:PRO:HD3	1:D:284:GLY:O	2.20	0.42
1:B:166:ARG:HG2	1:B:392:TYR:CG	2.53	0.41
1:P:377:LEU:O	1:P:380:LYS:HB2	2.20	0.41
1:P:601:PHE:CZ	1:P:795:VAL:CG1	3.02	0.41
1:M:354:VAL:HA	1:M:567:VAL:N	2.35	0.41
1:M:503:TYR:CZ	1:M:537:GLU:HB3	2.54	0.41
1:M:612:THR:HA	1:M:613:PRO:HD3	1.69	0.41
1:P:253:TYR:CA	1:P:255:ARG:NH1	2.79	0.41
1:I:433:LEU:N	1:I:434:PRO:CD	2.82	0.41
1:D:894:ARG:NH1	1:D:919:ASP:OD2	2.47	0.41
1:I:74:LEU:H	1:I:74:LEU:HG	1.66	0.41
1:H:502:MET:HB2	1:H:502:MET:HE2	1.69	0.41
1:B:782:ASP:CB	1:B:842:TRP:CH2	3.03	0.41
1:E:253:TYR:CD1	1:E:253:TYR:N	2.80	0.41
1:P:77:ASP:C	1:P:78:LEU:HD23	2.38	0.41
1:O:454:ILE:HG13	1:O:455:ILE:CG1	2.42	0.41
1:L:37:ARG:NH2	1:L:216:HIS:O	2.51	0.41
1:H:927:THR:HA	1:H:928:PRO:HD2	1.71	0.41
1:C:581:ASN:O	1:C:582:GLY:C	2.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:254:LEU:HD23	1:K:254:LEU:HA	1.58	0.41
1:N:599:ARG:HB2	1:N:600:GLN:H	1.67	0.41
1:F:579:ASP:O	1:F:582:GLY:N	2.40	0.41
1:B:683:PRO:O	1:B:685:LEU:HD23	2.20	0.41
1:M:619:GLU:HA	1:M:912:ALA:HB2	2.01	0.41
1:G:498:ILE:HG12	1:G:532:PRO:HG2	2.01	0.41
1:J:742:THR:CG2	1:J:747:PHE:CE1	3.00	0.41
1:K:928:PRO:HB2	1:K:973:ARG:HH11	1.85	0.41
1:L:413:ALA:N	1:L:443:MET:HE1	2.34	0.41
1:K:796:SER:HA	1:K:800:ARG:O	2.21	0.41
1:E:653:HIS:CD2	1:E:667:GLU:CB	3.00	0.41
1:L:350:LEU:HD12	1:L:563:GLN:C	2.39	0.41
1:F:357:HIS:HE1	1:F:568:TRP:CH2	2.37	0.41
1:F:936:GLY:O	1:F:937:LEU:C	2.57	0.41
1:E:487:GLU:O	1:E:488:GLY:C	2.57	0.41
1:N:573:GLN:HB2	1:N:602:CYS:O	2.20	0.41
1:B:608:PHE:O	1:B:610:ASP:N	2.53	0.41
1:O:485:GLN:NE2	3:O:1255:HOH:O	2.36	0.41
1:N:178:ARG:HG2	1:N:179:ALA:H	1.85	0.41
1:E:422:PRO:CB	1:H:279:ILE:HD13	2.50	0.41
1:F:843:GLN:HA	1:F:847:LYS:O	2.20	0.41
1:H:770:ILE:HD12	1:H:775:GLN:CG	2.49	0.41
1:N:606:LEU:HB3	1:N:617:LEU:HD13	2.02	0.41
1:E:501:PRO:O	1:E:535:LEU:HA	2.19	0.41
1:H:292:ARG:HH11	1:H:292:ARG:HG3	1.85	0.41
1:M:323:ILE:N	1:M:323:ILE:HD13	2.35	0.41
1:O:916:ASP:HB3	1:O:918:TRP:CZ2	2.55	0.41
1:L:513:PRO:O	1:L:515:VAL:N	2.53	0.41
1:H:840:HIS:HE1	3:H:1234:HOH:O	2.03	0.41
1:O:535:LEU:O	1:O:565:GLY:HA2	2.20	0.41
1:O:129:VAL:HG23	1:O:182:ASN:ND2	2.34	0.41
1:J:813:ALA:CB	1:J:815:HIS:HD2	2.33	0.41
1:J:933:SER:O	1:J:934:GLU:C	2.57	0.41
1:A:89:ASN:ND2	1:A:205:MET:HB3	2.34	0.41
1:H:272:ALA:HB1	1:H:273:PRO:HD2	2.02	0.41
1:G:524:LEU:HD23	1:G:524:LEU:HA	1.68	0.41
1:F:74:LEU:HD22	1:F:153:TRP:CE2	2.55	0.41
1:P:157:ARG:O	1:P:159:VAL:HG23	2.20	0.41
1:P:271:THR:HG22	1:P:272:ALA:N	2.35	0.41
1:P:258:VAL:HA	1:P:312:VAL:O	2.20	0.41
1:M:310:ARG:HA	1:M:328:CYS:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:36:TRP:CD2	1:M:42:ALA:HB2	2.55	0.41
1:B:745:MET:O	1:B:746:ASP:HB3	2.20	0.41
1:P:546:LEU:HD12	1:P:546:LEU:HA	1.78	0.41
1:H:218:PRO:HG2	1:H:324:GLU:HB2	2.01	0.41
1:A:427:THR:HG22	1:A:436:MET:HE2	2.03	0.41
1:E:114:VAL:HG13	1:E:191:TRP:HB2	2.02	0.41
1:E:100:TYR:HB2	1:E:203:TRP:CD2	2.55	0.41
1:M:615:PRO:HG2	1:M:929:TYR:OH	2.20	0.41
1:E:146:VAL:HG22	1:E:208:ILE:HG12	2.03	0.41
1:E:59:ARG:NH2	1:E:78:LEU:O	2.53	0.41
1:H:742:THR:HG23	1:H:747:PHE:CE1	2.55	0.41
1:H:285:TYR:HB2	1:H:288:ARG:HB2	2.01	0.41
1:L:948:PRO:CG	1:L:949:HIS:ND1	2.80	0.41
1:M:73:TRP:O	1:M:183:ARG:NH2	2.51	0.41
1:K:533:LEU:HD12	1:K:534:ILE:H	1.81	0.41
1:H:388:ARG:HD3	1:H:388:ARG:HH11	1.70	0.41
1:H:502:MET:HE2	1:H:537:GLU:OE1	2.19	0.41
1:L:894:ARG:HE	1:L:921:PRO:HD3	1.85	0.41
1:D:210:ARG:NH1	1:D:358:GLU:OE1	2.52	0.41
1:H:866:ILE:N	1:H:1018:LEU:O	2.49	0.41
1:B:897:TRP:CH2	1:B:918:TRP:HB2	2.55	0.41
1:L:418:HIS:HA	1:L:423:MET:HG3	2.02	0.41
1:M:367:MET:CE	1:M:371:THR:HB	2.50	0.41
1:D:934:GLU:OE2	1:D:935:ASN:N	2.53	0.41
1:C:657:ALA:HA	1:C:661:LYS:O	2.20	0.41
1:P:749:ILE:HD13	1:P:749:ILE:N	2.32	0.41
1:M:472:TYR:O	1:M:476:LYS:HG2	2.21	0.41
1:P:301:TRP:HB2	1:P:307:ASN:O	2.20	0.41
1:A:786:ARG:HH11	1:A:990:HIS:CE1	2.38	0.41
1:F:878:HIS:HA	1:F:879:PRO:HD3	1.94	0.41
1:B:323:ILE:CD1	1:B:323:ILE:N	2.84	0.41
1:K:307:ASN:C	1:K:308:LEU:HD23	2.40	0.41
1:E:1005:ALA:O	1:E:1006:GLU:C	2.58	0.41
1:N:319:ASP:OD1	1:N:321:THR:N	2.51	0.41
1:I:903:GLN:O	1:I:904:GLU:C	2.58	0.41
1:K:608:PHE:O	1:K:609:ALA:C	2.58	0.41
1:E:783:GLN:NE2	3:E:1282:HOH:O	2.40	0.41
1:N:650:GLU:HB3	1:N:670:LEU:CB	2.48	0.41
1:A:533:LEU:O	1:A:534:ILE:HG13	2.21	0.41
1:N:120:THR:CG2	1:N:121:GLY:N	2.82	0.41
1:F:422:PRO:HB3	1:G:280:ASP:OD1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:899:GLY:HA2	1:L:915:PHE:CE2	2.55	0.41
1:O:69:VAL:HA	1:O:70:PRO:HD3	1.72	0.41
1:O:658:LEU:N	1:O:661:LYS:O	2.45	0.41
1:O:736:ALA:O	1:O:737:ILE:HG22	2.21	0.41
1:E:199:ASP:OD2	1:E:419:GLY:N	2.52	0.41
1:O:1016:TYR:CD1	1:O:1016:TYR:N	2.88	0.41
1:H:936:GLY:C	1:H:938:ARG:HH21	2.22	0.41
1:K:955:PHE:CD1	1:K:955:PHE:N	2.88	0.41
1:F:91:GLN:C	1:F:93:HIS:H	2.22	0.41
1:B:927:THR:HG21	1:B:929:TYR:CE2	2.55	0.41
1:L:403:ASP:CG	1:L:451:PRO:HD2	2.41	0.41
1:F:147:ASN:HA	1:F:148:SER:HA	1.52	0.41
1:P:1004:SER:O	1:P:1005:ALA:C	2.58	0.41
1:C:950:GLN:HG3	1:C:951:TRP:N	2.35	0.41
1:N:557:ARG:NE	1:N:641:GLU:OE2	2.51	0.41
1:A:234:ASP:OD1	1:A:234:ASP:N	2.52	0.41
1:I:296:GLU:O	1:I:297:ASN:C	2.58	0.41
1:P:843:GLN:HB2	1:P:843:GLN:HE21	1.70	0.41
1:K:639:THR:OG1	1:K:677:LYS:HG2	2.20	0.41
1:K:997:ASP:HB2	1:K:999:TRP:CZ2	2.55	0.41
1:B:814:GLY:O	1:B:815:HIS:C	2.55	0.41
1:A:485:GLN:NE2	3:A:1256:HOH:O	2.53	0.41
1:N:967:LEU:HD23	1:N:967:LEU:HA	1.79	0.41
1:D:492:ASP:OD1	1:D:492:ASP:N	2.47	0.41
1:I:520:ILE:H	1:I:520:ILE:HG23	1.46	0.41
1:C:363:HIS:N	1:C:363:HIS:CD2	2.84	0.41
1:E:265:THR:HG22	1:E:267:VAL:HG23	2.02	0.41
1:K:37:ARG:NH2	1:K:217:LYS:HA	2.35	0.41
1:I:132:SER:O	1:I:134:LEU:N	2.53	0.41
1:M:100:TYR:HB2	1:M:203:TRP:CZ3	2.55	0.41
1:G:166:ARG:HA	1:G:166:ARG:HD2	1.75	0.41
1:P:102:ASN:ND2	1:P:201:ASP:CB	2.80	0.41
1:P:502:MET:O	1:P:503:TYR:HB2	2.21	0.41
1:M:164:ASP:HA	3:M:1232:HOH:O	2.20	0.41
1:M:406:GLY:O	1:M:407:LEU:HD23	2.21	0.41
1:K:759:ASN:OD1	1:K:760:ARG:N	2.53	0.41
1:K:66:PRO:CG	1:K:67:GLU:H	2.32	0.41
1:E:146:VAL:HG11	1:E:150:PHE:CG	2.55	0.41
1:L:984:LEU:CD2	1:L:986:ILE:HG13	2.50	0.41
1:H:110:ASN:HD22	1:H:113:PHE:HB2	1.85	0.41
1:O:501:PRO:HA	3:O:1242:HOH:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:437:SER:HA	1:I:471:LEU:HD21	2.02	0.41
1:M:114:VAL:HG21	1:M:192:SER:N	2.36	0.41
1:I:67:GLU:H	1:I:67:GLU:HG2	1.51	0.41
1:K:51:LEU:HD12	1:K:51:LEU:C	2.32	0.41
1:H:473:ARG:O	1:H:474:TRP:C	2.58	0.41
1:M:974:HIS:CE1	1:M:975:LEU:CD2	3.00	0.41
1:M:301:TRP:HD1	1:M:308:LEU:HD23	1.84	0.41
1:D:354:VAL:HG11	1:D:379:MET:CE	2.49	0.41
1:F:921:PRO:O	1:F:922:LEU:C	2.58	0.41
1:L:65:ALA:HB1	1:L:66:PRO:HD2	2.02	0.41
1:D:433:LEU:N	1:D:434:PRO:HD2	2.35	0.41
1:G:373:VAL:O	1:G:377:LEU:HG	2.20	0.41
1:E:910:LEU:HD12	1:E:910:LEU:C	2.41	0.41
1:G:996:ASP:H	1:G:1002:SER:HB3	1.86	0.41
1:P:485:GLN:O	1:P:486:TYR:HB2	2.21	0.41
1:J:533:LEU:HD13	1:J:534:ILE:N	2.34	0.41
1:J:500:CYS:HA	1:J:534:ILE:O	2.20	0.41
1:D:18:ASN:ND2	1:D:21:VAL:CG2	2.81	0.41
1:O:147:ASN:HA	1:O:165:SER:HB3	2.03	0.41
1:G:97:ALA:HA	1:G:98:PRO:HD3	1.94	0.41
1:L:559:TYR:N	1:L:559:TYR:CD1	2.88	0.41
1:I:258:VAL:HG12	1:I:293:LEU:HD11	2.02	0.41
1:E:878:HIS:HA	1:E:879:PRO:HD3	1.92	0.41
1:C:740:LEU:HD12	1:C:741:THR:N	2.34	0.41
1:L:957:PHE:CD1	1:L:958:ASN:N	2.89	0.41
1:J:309:TYR:O	1:J:330:VAL:N	2.41	0.41
1:N:606:LEU:HA	1:N:606:LEU:HD23	1.79	0.41
1:D:129:VAL:CG2	1:D:182:ASN:ND2	2.80	0.41
1:F:369:GLU:O	1:F:372:MET:HB2	2.19	0.41
1:C:358:GLU:HB3	1:C:367:MET:CG	2.51	0.41
1:I:377:LEU:HD22	1:I:708:TRP:CB	2.51	0.41
1:D:736:ALA:O	1:D:737:ILE:HG22	2.19	0.41
1:E:866:ILE:HG22	1:E:867:THR:H	1.85	0.41
1:G:572:ASP:HB3	1:G:603:MET:HG2	2.03	0.41
1:A:24:LEU:HB2	1:A:161:TYR:HB3	2.02	0.41
1:D:309:TYR:O	1:D:330:VAL:N	2.44	0.41
1:B:619:GLU:HG2	1:B:909:ARG:HG3	2.01	0.41
1:F:612:THR:HA	1:F:613:PRO:HD3	1.81	0.41
1:L:300:LEU:CD1	1:L:345:ASN:HD22	2.33	0.41
1:A:837:THR:O	1:A:837:THR:HG22	2.20	0.41
1:A:708:TRP:CD1	1:A:708:TRP:N	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:998:SER:N	1:P:999:TRP:CE3	2.85	0.41
1:E:881:ARG:HD3	1:E:987:ASP:OD1	2.20	0.41
1:B:637:GLU:HA	1:B:679:LEU:HD23	2.01	0.41
1:A:347:LYS:HA	1:A:348:PRO:HD3	1.84	0.41
1:G:465:GLY:O	1:G:468:HIS:HB2	2.21	0.41
1:N:575:LEU:O	1:N:587:ALA:N	2.38	0.41
1:I:920:LEU:HB3	1:I:921:PRO:HD2	2.01	0.41
1:C:347:LYS:HA	1:C:348:PRO:HD3	1.90	0.41
1:I:349:LEU:HD13	1:I:351:ILE:HD11	2.03	0.41
1:M:755:ARG:HD2	1:M:755:ARG:HH11	1.67	0.41
1:N:832:ASP:OD1	1:N:832:ASP:N	2.53	0.41
1:C:60:PHE:CG	1:C:61:ALA:N	2.88	0.41
1:C:647:SER:N	3:C:1277:HOH:O	2.52	0.41
1:N:60:PHE:O	1:N:61:ALA:HB2	2.21	0.41
1:K:524:LEU:HD23	1:K:524:LEU:HA	1.78	0.41
1:P:685:LEU:CB	1:P:686:PRO:CD	2.99	0.41
1:A:202:MET:HE3	1:A:392:TYR:CE2	2.51	0.41
1:M:778:THR:OG1	1:M:887:GLN:HB3	2.19	0.41
1:M:31:PRO:CG	1:M:225:PHE:CE1	3.02	0.41
1:M:577:LYS:HD2	1:M:592:PHE:CZ	2.56	0.41
1:P:652:LEU:HD12	1:P:653:HIS:H	1.85	0.41
1:M:433:LEU:CA	1:M:467:ASN:HD22	2.33	0.41
1:P:225:PHE:CB	1:P:244:VAL:HG13	2.32	0.41
1:E:69:VAL:CG1	1:E:70:PRO:CD	2.98	0.41
1:B:651:LEU:HD13	1:B:651:LEU:HA	1.43	0.41
1:P:253:TYR:N	1:P:253:TYR:CD1	2.87	0.41
1:M:706:THR:O	1:M:707:ALA:C	2.58	0.41
1:D:920:LEU:CB	1:D:921:PRO:CD	2.98	0.41
1:D:73:TRP:HZ2	1:D:123:TYR:O	2.03	0.41
1:I:279:ILE:HD11	1:L:422:PRO:CG	2.40	0.41
1:K:600:GLN:H	1:K:600:GLN:HG3	0.97	0.41
1:J:227:VAL:HG11	1:J:240:LEU:HD11	2.00	0.41
1:L:316:HIS:HA	1:L:323:ILE:HD12	2.02	0.41
1:K:197:LEU:HD22	1:K:415:ILE:CG2	2.44	0.41
1:G:254:LEU:HA	1:G:254:LEU:HD23	1.75	0.41
1:F:187:MET:HG2	1:F:187:MET:O	2.20	0.41
1:M:256:VAL:CG2	1:M:274:PHE:CE1	2.99	0.41
1:H:71:GLU:HG3	1:H:74:LEU:HD12	2.02	0.41
1:M:746:ASP:CA	1:M:760:ARG:HG3	2.49	0.41
1:C:580:GLU:HB2	1:C:581:ASN:H	1.69	0.41
1:A:84:VAL:HG12	1:A:85:VAL:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:747:PHE:CZ	1:A:760:ARG:NE	2.88	0.41
1:O:702:GLN:O	1:O:712:GLY:N	2.52	0.41
1:A:322:LEU:HD23	1:A:324:GLU:N	2.34	0.41
1:A:600:GLN:H	1:A:600:GLN:HG3	1.49	0.41
1:M:881:ARG:NH2	1:M:934:GLU:OE1	2.51	0.41
1:L:1011:ALA:HB3	1:L:1014:TYR:CZ	2.55	0.41
1:B:237:ARG:HH11	1:B:237:ARG:CG	2.33	0.41
1:M:523:TRP:O	1:M:524:LEU:C	2.58	0.41
1:P:782:ASP:HB2	1:P:842:TRP:CZ2	2.55	0.41
1:F:292:ARG:C	1:F:293:LEU:HD23	2.41	0.41
1:I:272:ALA:HB1	1:I:273:PRO:HD2	2.03	0.41
1:H:1013:ARG:HG3	1:H:1013:ARG:NH1	2.34	0.41
1:J:943:GLU:HA	1:J:951:TRP:O	2.20	0.41
1:D:141:ILE:HG23	1:D:143:PHE:CE1	2.56	0.41
1:K:17:GLU:OE1	1:K:113:PHE:HD1	2.04	0.41
1:J:698:VAL:CG2	1:J:720:TRP:CZ3	3.03	0.41
1:E:271:THR:O	1:E:272:ALA:HB2	2.21	0.41
1:M:315:LEU:HD12	1:M:315:LEU:C	2.40	0.41
1:H:936:GLY:HA2	1:H:938:ARG:NH2	2.35	0.41
1:D:875:ASP:OD1	1:D:875:ASP:N	2.53	0.41
1:E:515:VAL:N	1:E:516:PRO:CD	2.83	0.41
1:G:890:GLN:O	1:G:891:VAL:HG23	2.20	0.41
1:I:788:PRO:HG3	1:I:807:VAL:HG23	2.01	0.41
1:B:301:TRP:HD1	1:B:307:ASN:O	2.03	0.41
1:K:693:GLN:HB3	1:K:695:TRP:HE1	1.85	0.41
1:H:995:GLY:O	1:H:996:ASP:C	2.58	0.41
1:O:155:ASN:C	1:O:157:ARG:H	2.23	0.41
1:K:683:PRO:O	1:K:684:GLU:C	2.59	0.41
1:N:950:GLN:HE21	1:N:1023:LYS:HE3	1.84	0.41
1:N:407:LEU:HD23	1:N:407:LEU:HA	1.73	0.41
1:C:234:ASP:N	1:C:234:ASP:OD1	2.53	0.41
1:J:370:GLN:O	1:J:371:THR:C	2.58	0.41
1:D:538:TYR:O	1:D:567:VAL:HA	2.20	0.41
1:J:1011:ALA:HB3	1:J:1014:TYR:CZ	2.56	0.41
1:M:141:ILE:HG12	1:M:143:PHE:CE1	2.54	0.41
1:E:18:ASN:OD1	1:E:19:PRO:HD2	2.20	0.41
1:M:542:MET:HE2	1:M:600:GLN:HE21	1.85	0.41
1:P:503:TYR:CZ	1:P:537:GLU:HB3	2.55	0.41
1:P:698:VAL:O	1:P:698:VAL:HG23	2.19	0.41
1:M:423:MET:CG	1:P:282:ARG:HG3	2.49	0.41
1:P:392:TYR:HB2	1:P:393:PRO:CD	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:559:TYR:HD1	1:P:559:TYR:N	2.18	0.41
1:I:610:ASP:O	1:I:611:ARG:HB2	2.21	0.41
1:I:433:LEU:CB	1:I:434:PRO:HD3	2.44	0.41
1:I:440:VAL:CG1	1:I:475:ILE:HD11	2.51	0.41
1:M:984:LEU:HA	1:M:984:LEU:HD12	1.39	0.41
1:H:568:TRP:HA	1:H:569:ASP:HA	1.80	0.41
1:L:240:LEU:HD23	1:L:293:LEU:HD12	2.01	0.41
1:J:60:PHE:CG	1:J:61:ALA:N	2.88	0.41
1:D:78:LEU:HA	1:D:79:PRO:HD3	1.90	0.41
1:M:279:ILE:HD11	1:P:424:ASN:CB	2.44	0.41
1:L:930:VAL:HA	1:L:973:ARG:HB3	2.03	0.41
1:M:908:ASP:HB3	1:M:1007:PHE:CG	2.56	0.41
1:I:256:VAL:HG23	1:I:274:PHE:CE1	2.55	0.41
1:A:569:ASP:O	1:A:605:GLY:HA2	2.20	0.41
1:O:920:LEU:CB	1:O:921:PRO:CD	2.99	0.41
1:P:18:ASN:ND2	1:P:21:VAL:CG2	2.79	0.41
1:H:18:ASN:ND2	1:H:21:VAL:CG2	2.79	0.41
1:O:84:VAL:CG1	1:O:85:VAL:N	2.83	0.41
1:A:608:PHE:O	1:A:609:ALA:C	2.58	0.41
1:L:745:MET:CE	1:L:761:GLN:HE22	2.33	0.41
1:H:806:TRP:O	1:H:809:ARG:N	2.52	0.41
1:E:661:LYS:O	1:E:662:PRO:C	2.59	0.41
1:L:789:LEU:N	1:L:792:ASP:OD1	2.52	0.41
1:G:285:TYR:HB2	1:G:288:ARG:HB2	2.01	0.41
1:C:372:MET:CE	1:C:395:HIS:HB3	2.50	0.41
1:O:123:TYR:H	1:O:123:TYR:HD1	1.68	0.41
1:G:425:ARG:HD2	1:G:425:ARG:HH11	1.69	0.41
1:O:524:LEU:HD23	1:O:524:LEU:HA	1.85	0.41
1:D:217:LYS:HD3	1:D:221:GLN:HB2	2.01	0.41
1:J:397:LEU:HD12	1:J:397:LEU:O	2.20	0.41
1:F:881:ARG:HD3	1:F:987:ASP:CG	2.41	0.41
1:P:548:GLY:HA3	3:P:1228:HOH:O	2.21	0.41
1:G:927:THR:HA	1:G:928:PRO:HD3	1.66	0.41
1:D:876:THR:O	1:D:877:PRO:C	2.56	0.41
1:D:441:THR:HG22	1:D:474:TRP:CH2	2.56	0.41
1:N:827:ALA:HB2	1:N:836:ILE:CD1	2.50	0.41
1:B:141:ILE:HG13	1:B:214:LEU:HD23	2.03	0.41
1:H:962:TYR:CE2	1:H:976:LEU:HB3	2.56	0.41
1:N:500:CYS:HA	1:N:534:ILE:O	2.20	0.41
1:I:111:PRO:HA	1:I:112:PRO:HA	1.64	0.41
1:N:205:MET:O	1:N:206:SER:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1003:VAL:HA	3:B:1274:HOH:O	2.20	0.41
1:P:837:THR:O	1:P:837:THR:HG22	2.20	0.41
1:K:643:LEU:HA	1:K:643:LEU:HD23	1.74	0.41
1:N:524:LEU:HA	1:N:524:LEU:HD23	1.64	0.41
1:I:714:ILE:N	1:I:714:ILE:HD13	2.33	0.41
1:P:526:LEU:HA	1:P:526:LEU:HD23	1.81	0.41
1:O:464:HIS:HB2	1:O:489:GLY:HA3	2.01	0.41
1:E:7:LEU:HB2	1:E:71:GLU:OE2	2.20	0.41
1:A:1022:GLN:N	1:A:1022:GLN:OE1	2.53	0.41
1:K:559:TYR:CG	1:K:562:LEU:HD12	2.55	0.41
1:P:16:TRP:CD1	1:P:17:GLU:CG	2.98	0.41
1:M:27:LEU:HD13	1:M:140:ARG:NH2	2.36	0.41
1:M:36:TRP:CD1	1:M:41:GLU:HB3	2.55	0.41
1:P:897:TRP:CZ2	1:P:918:TRP:CB	3.04	0.41
1:P:927:THR:HG22	1:P:929:TYR:CE2	2.54	0.41
1:M:430:PRO:O	1:M:433:LEU:N	2.53	0.41
1:K:581:ASN:HB2	1:K:583:ASN:ND2	2.36	0.41
1:J:355:ASN:ND2	1:J:566:PHE:HB3	2.35	0.41
1:D:822:LEU:HD13	1:D:822:LEU:HA	1.72	0.41
1:C:653:HIS:O	1:C:698:VAL:HA	2.21	0.41
1:M:377:LEU:CD2	1:M:708:TRP:CB	2.99	0.41
1:L:100:TYR:CD2	1:L:602:CYS:HB3	2.54	0.41
1:H:209:PHE:N	1:H:209:PHE:CD1	2.89	0.41
1:G:86:VAL:CG1	1:G:87:PRO:N	2.80	0.41
1:O:763:GLY:HA3	1:O:822:LEU:CD2	2.51	0.41
1:H:91:GLN:HB3	1:H:96:ASP:O	2.20	0.41
1:K:141:ILE:HA	1:K:213:SER:O	2.20	0.41
1:M:908:ASP:OD1	1:M:993:ILE:HG12	2.21	0.41
1:O:920:LEU:HB3	1:O:921:PRO:CD	2.43	0.41
1:B:670:LEU:HA	1:B:670:LEU:HD23	1.22	0.41
1:O:781:ARG:O	1:O:884:LEU:HA	2.21	0.41
1:A:258:VAL:HG23	1:A:291:LEU:HD22	2.02	0.41
1:F:579:ASP:OD2	1:F:583:ASN:HB2	2.20	0.41
1:B:279:ILE:CD1	1:C:422:PRO:HG2	2.51	0.41
1:G:645:ARG:NH2	1:G:650:GLU:OE1	2.53	0.41
1:P:1013:ARG:CG	1:P:1013:ARG:NH1	2.80	0.41
1:N:501:PRO:HB2	1:N:504:ALA:HB2	2.02	0.41
1:J:742:THR:CG2	1:J:743:SER:N	2.79	0.41
1:H:932:PRO:O	1:H:933:SER:HB3	2.21	0.41
1:L:773:LYS:HG3	1:L:773:LYS:H	1.60	0.41
1:A:869:ASP:OD1	1:A:1015:HIS:ND1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:808:GLU:HA	1:K:808:GLU:OE1	2.20	0.41
1:D:657:ALA:HA	1:D:661:LYS:O	2.20	0.41
1:O:786:ARG:NH2	1:O:792:ASP:OD1	2.53	0.41
1:M:409:VAL:HG12	1:M:410:VAL:C	2.41	0.41
1:F:372:MET:O	1:F:376:ILE:HG13	2.20	0.41
1:M:866:ILE:HG22	1:M:867:THR:N	2.36	0.41
1:F:499:ILE:HG22	1:F:501:PRO:HD3	2.03	0.41
1:H:936:GLY:O	1:H:938:ARG:NE	2.48	0.41
1:O:740:LEU:CD1	1:O:749:ILE:CD1	2.99	0.41
1:O:30:HIS:HB2	1:O:31:PRO:CD	2.51	0.41
1:J:173:LEU:HA	1:J:173:LEU:HD23	1.78	0.41
1:H:485:GLN:HA	1:H:496:THR:OG1	2.21	0.41
1:A:69:VAL:HA	1:A:70:PRO:HD3	1.83	0.41
1:J:1004:SER:HG	1:J:1006:GLU:CD	2.24	0.41
1:F:695:TRP:NE1	1:F:915:PHE:CE2	2.88	0.41
1:O:721:ARG:HD3	1:O:721:ARG:HH11	1.66	0.41
1:O:368:ASP:O	1:O:369:GLU:C	2.59	0.41
1:C:139:THR:HG21	1:C:177:LEU:HD11	2.03	0.41
1:I:524:LEU:HD13	1:I:561:ARG:CB	2.50	0.41
1:N:426:LEU:HA	1:N:426:LEU:HD23	1.92	0.41
1:N:806:TRP:CH2	1:N:809:ARG:NH2	2.89	0.41
1:G:509:ASP:C	1:G:511:PRO:HD3	2.41	0.41
1:F:663:LEU:HD12	1:F:694:LEU:HD11	2.01	0.41
1:C:807:VAL:O	1:C:811:LYS:HG3	2.20	0.41
1:G:526:LEU:HD23	1:G:526:LEU:HA	1.94	0.41
1:P:843:GLN:O	1:P:844:HIS:HB2	2.21	0.41
1:J:863:GLN:HG2	1:J:1021:CYS:HB3	2.02	0.41
1:F:742:THR:CG2	1:F:743:SER:N	2.80	0.41
1:O:879:PRO:O	1:O:1009:LEU:HD12	2.21	0.41
1:F:235:PHE:N	1:F:235:PHE:CD1	2.88	0.41
1:A:780:LEU:HD12	1:A:780:LEU:HA	1.78	0.41
1:C:211:ASP:N	1:C:211:ASP:OD1	2.52	0.41
1:P:401:LEU:HA	1:P:401:LEU:HD23	1.89	0.41
1:J:619:GLU:OE1	1:J:619:GLU:HA	2.20	0.41
1:C:6:SER:O	1:C:9:VAL:N	2.53	0.41
1:J:925:MET:HB3	3:J:1274:HOH:O	2.20	0.41
1:C:646:HIS:NE2	1:C:671:ASP:OD1	2.48	0.41
1:O:309:TYR:CD2	1:O:332:PHE:HE1	2.39	0.41
1:M:70:PRO:CG	1:M:78:LEU:HD11	2.23	0.41
1:K:36:TRP:C	1:K:37:ARG:HG2	2.39	0.41
1:P:271:THR:HG22	1:P:272:ALA:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:36:TRP:CD2	1:E:42:ALA:CB	2.98	0.41
1:E:36:TRP:CE3	1:E:42:ALA:CB	3.02	0.41
1:H:718:GLN:CG	1:H:720:TRP:CZ2	2.98	0.41
1:P:930:VAL:HG23	1:P:973:ARG:HH11	1.86	0.41
1:P:937:LEU:HD23	1:P:937:LEU:C	2.41	0.41
1:I:51:LEU:HD13	1:I:51:LEU:HA	1.73	0.41
1:E:542:MET:HA	1:E:604:ASN:HA	2.03	0.41
1:P:200:GLN:O	1:P:204:ARG:NE	2.51	0.41
1:J:377:LEU:HD22	1:J:708:TRP:CB	2.51	0.41
1:H:79:PRO:CD	1:H:80:GLU:N	2.82	0.41
1:H:253:TYR:O	1:H:318:ALA:N	2.52	0.41
1:B:128:ASN:ND2	1:B:180:GLY:CA	2.80	0.41
1:B:100:TYR:CD1	1:B:602:CYS:HB3	2.55	0.41
1:N:744:GLU:HA	1:N:760:ARG:HH11	1.85	0.41
1:I:668:VAL:HG12	1:I:669:PRO:HD2	2.02	0.41
1:G:937:LEU:C	1:G:938:ARG:HG2	2.40	0.41
1:F:45:ASP:H	1:F:310:ARG:NH1	2.19	0.41
1:K:1008:GLN:O	1:K:1010:SER:N	2.54	0.41
1:E:927:THR:CG2	1:E:929:TYR:CE2	3.03	0.41
1:F:420:MET:C	1:F:421:VAL:HG23	2.40	0.41
1:J:579:ASP:OD1	1:J:583:ASN:HB2	2.21	0.41
1:J:166:ARG:HA	1:J:166:ARG:HD2	1.74	0.41
1:N:391:HIS:CE1	1:N:460:ASN:ND2	2.89	0.41
1:B:237:ARG:CD	1:B:296:GLU:CG	2.99	0.41
1:E:658:LEU:HD11	1:E:692:GLY:HA3	2.03	0.41
1:I:388:ARG:O	1:I:390:SER:N	2.54	0.41
1:E:946:TYR:CE2	1:E:982:THR:HG21	2.56	0.41
1:J:588:TYR:CD2	1:J:603:MET:HE1	2.56	0.41
1:A:391:HIS:NE2	1:A:460:ASN:ND2	2.69	0.41
1:L:738:PRO:CA	1:L:751:LEU:CD1	2.99	0.41
1:N:917:ARG:HH22	1:N:943:GLU:CD	2.23	0.41
1:M:627:PHE:O	1:M:628:GLN:HG2	2.20	0.41
1:I:214:LEU:HA	1:I:214:LEU:HD23	1.89	0.41
1:C:928:PRO:O	1:C:973:ARG:NH1	2.47	0.41
1:E:502:MET:O	1:E:517:LYS:NZ	2.30	0.41
1:C:200:GLN:HB2	1:C:202:MET:SD	2.61	0.41
1:I:869:ASP:CG	1:I:1015:HIS:HD1	2.22	0.41
1:A:658:LEU:HA	1:A:658:LEU:HD12	1.74	0.41
1:K:644:PHE:C	1:K:674:PRO:HG3	2.41	0.41
1:P:965:GLN:O	1:P:966:GLN:C	2.59	0.41
1:E:830:LEU:CD1	1:E:830:LEU:N	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:419:GLY:O	1:D:282:ARG:NH1	2.54	0.41
1:E:400:THR:HG22	1:E:404:ARG:CD	2.51	0.41
1:C:856:TYR:CD1	1:C:856:TYR:N	2.89	0.41
1:H:937:LEU:HG	1:H:938:ARG:N	2.35	0.41
1:H:308:LEU:HA	1:H:308:LEU:HD23	1.88	0.41
1:D:69:VAL:HA	1:D:70:PRO:HD3	1.68	0.41
1:B:472:TYR:CZ	1:B:476:LYS:HE2	2.55	0.41
1:P:951:TRP:HE3	1:P:951:TRP:H	1.67	0.41
1:O:520:ILE:HG21	1:O:535:LEU:HD21	2.03	0.41
1:K:783:GLN:HG2	1:K:785:THR:H	1.85	0.41
1:B:806:TRP:O	1:B:807:VAL:C	2.58	0.41
1:N:1004:SER:OG	1:N:1006:GLU:OE2	2.30	0.41
1:O:553:TRP:O	1:O:557:ARG:HD2	2.21	0.41
1:A:44:THR:OG1	1:A:46:ARG:HG3	2.21	0.41
1:F:650:GLU:HB3	1:F:670:LEU:HB2	2.03	0.41
1:I:955:PHE:N	1:I:955:PHE:CD2	2.88	0.41
1:H:441:THR:O	1:H:445:GLN:HB2	2.21	0.41
1:J:223:SER:O	1:J:224:ASP:HB2	2.21	0.41
1:J:963:SER:O	1:J:964:GLN:C	2.58	0.41
1:O:38:ASN:OD1	1:O:39:SER:N	2.54	0.41
1:E:510:GLN:HA	1:E:511:PRO:HD2	1.66	0.41
1:K:985:ASN:HB3	3:K:1275:HOH:O	2.21	0.41
1:G:410:VAL:O	1:G:410:VAL:HG12	2.20	0.41
1:D:570:TRP:HA	1:D:570:TRP:CE3	2.56	0.41
1:K:924:ASP:N	1:K:924:ASP:OD1	2.52	0.41
1:D:534:ILE:HG21	1:D:534:ILE:HD13	1.64	0.41
1:G:403:ASP:OD1	1:G:451:PRO:HD2	2.21	0.41
1:G:403:ASP:OD2	1:G:450:HIS:ND1	2.43	0.41
1:G:409:VAL:HG23	1:G:452:SER:HB2	2.03	0.41
1:M:69:VAL:CG1	1:M:70:PRO:N	2.82	0.41
1:P:442:ARG:HD3	3:P:1249:HOH:O	2.21	0.41
1:M:35:SER:HG	1:M:217:LYS:HG2	1.84	0.41
1:M:36:TRP:CD1	1:M:41:GLU:CB	3.03	0.41
1:M:423:MET:SD	1:M:461:GLU:O	2.79	0.41
1:P:460:ASN:O	1:P:461:GLU:C	2.59	0.41
1:L:1018:LEU:C	1:L:1019:VAL:HG23	2.40	0.41
1:O:686:PRO:C	1:O:688:PRO:HD3	2.41	0.41
1:P:261:TRP:CE3	1:P:266:GLN:CA	3.02	0.41
1:H:537:GLU:HA	1:H:566:PHE:O	2.21	0.41
1:E:362:LEU:CD2	1:E:576:ILE:HD12	2.51	0.41
1:I:948:PRO:HG2	1:I:949:HIS:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:970:THR:HG21	1:E:975:LEU:O	2.21	0.41
1:L:63:PHE:CE2	1:L:70:PRO:HD3	2.55	0.41
1:B:896:ASN:HA	1:B:918:TRP:O	2.20	0.41
1:L:372:MET:HG3	1:L:398:TRP:CE3	2.56	0.41
1:L:59:ARG:NH2	1:L:81:ALA:O	2.38	0.41
1:I:275:GLY:HA2	1:I:286:ALA:CA	2.44	0.41
1:I:218:PRO:HD2	1:I:324:GLU:OE2	2.21	0.41
1:E:154:CYS:O	1:E:157:ARG:N	2.29	0.41
1:O:60:PHE:CE2	1:O:62:TRP:HB2	2.56	0.41
1:O:84:VAL:HG13	1:O:93:HIS:CE1	2.55	0.41
1:B:775:GLN:HE21	1:B:775:GLN:N	2.18	0.41
1:A:1018:LEU:CD2	1:A:1019:VAL:N	2.81	0.41
1:E:158:TRP:CZ2	1:E:160:GLY:CA	2.99	0.41
1:O:146:VAL:CG1	1:O:188:VAL:HG13	2.51	0.41
1:C:189:LEU:CD2	1:C:189:LEU:N	2.80	0.41
1:H:650:GLU:O	1:H:670:LEU:HB2	2.21	0.41
1:G:250:LEU:HA	1:G:250:LEU:HD23	1.61	0.41
1:A:274:PHE:HB3	1:A:286:ALA:O	2.20	0.41
1:G:894:ARG:NH1	1:G:920:LEU:HA	2.33	0.41
1:D:166:ARG:CG	1:D:392:TYR:HB2	2.49	0.41
1:F:166:ARG:CG	1:F:392:TYR:HB2	2.50	0.41
1:D:37:ARG:NH2	1:D:216:HIS:O	2.54	0.41
1:J:372:MET:HE1	1:J:395:HIS:HB3	2.03	0.41
1:J:397:LEU:O	1:J:401:LEU:HG	2.20	0.41
1:A:946:TYR:HH	1:A:982:THR:HG1	1.65	0.41
1:H:658:LEU:CD2	1:H:688:PRO:CG	2.99	0.41
1:J:696:LEU:HD12	1:J:697:THR:H	1.84	0.41
1:G:750:GLU:OE2	1:G:755:ARG:HD3	2.20	0.41
1:N:347:LYS:HB2	1:N:643:LEU:HD13	2.03	0.41
1:N:693:GLN:HG2	1:N:721:ARG:HD2	2.02	0.41
1:O:868:VAL:HG21	1:O:1016:TYR:CZ	2.55	0.41
1:B:164:ASP:OD2	1:B:167:LEU:HD12	2.21	0.41
1:N:738:PRO:HG2	1:N:834:VAL:HG23	2.02	0.41
1:F:127:PHE:O	1:F:181:GLU:HA	2.21	0.41
1:C:84:VAL:CG1	1:C:85:VAL:N	2.84	0.41
1:E:650:GLU:HB3	1:E:670:LEU:HB2	2.03	0.41
1:J:217:LYS:CB	1:J:218:PRO:HD2	2.51	0.41
1:F:867:THR:O	1:F:867:THR:HG22	2.19	0.41
1:I:17:GLU:O	1:I:112:PRO:HG2	2.21	0.41
1:H:437:SER:O	1:H:441:THR:OG1	2.32	0.41
1:N:163:GLN:O	1:N:164:ASP:HB3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:140:ARG:HB2	1:J:171:PHE:O	2.20	0.41
1:I:357:HIS:HD2	1:I:392:TYR:OH	2.03	0.41
1:A:486:TYR:H	1:A:496:THR:HB	1.86	0.41
1:K:888:LEU:O	1:K:981:GLY:HA3	2.20	0.41
1:D:446:ARG:HG2	1:D:446:ARG:O	2.20	0.41
1:O:407:LEU:HD23	1:O:407:LEU:HA	1.93	0.41
1:C:407:LEU:HD23	1:C:407:LEU:HA	1.82	0.41
1:F:378:LEU:HA	1:F:378:LEU:HD23	1.83	0.41
1:L:925:MET:HE3	1:L:925:MET:HB3	1.77	0.41
1:K:214:LEU:HA	1:K:214:LEU:HD23	1.88	0.41
1:F:67:GLU:HG2	1:F:67:GLU:H	1.24	0.41
1:B:588:TYR:O	1:B:589:GLY:C	2.56	0.41
1:J:463:GLY:O	1:J:486:TYR:OH	2.28	0.41
1:C:662:PRO:C	1:C:663:LEU:HD23	2.41	0.41
1:A:515:VAL:HG21	1:D:281:GLU:HG3	2.03	0.41
1:M:12:GLN:HG2	1:P:4:THR:CG2	2.51	0.41
1:P:14:ARG:CZ	1:P:16:TRP:HZ2	2.32	0.41
1:P:113:PHE:O	1:P:196:TYR:OH	2.29	0.41
1:P:150:PHE:O	1:P:162:GLY:N	2.54	0.41
1:P:23:GLN:CB	1:P:26:ARG:CZ	2.98	0.41
1:E:166:ARG:CG	1:E:392:TYR:HB2	2.29	0.41
1:E:260:LEU:CD1	1:E:311:ALA:HB2	2.51	0.41
1:E:261:TRP:CZ3	1:E:266:GLN:CB	2.99	0.41
1:J:316:HIS:ND1	1:J:316:HIS:N	2.68	0.41
1:M:202:MET:HB3	1:M:573:GLN:HE22	1.85	0.41
1:P:544:ASN:CB	1:P:789:LEU:CD2	2.99	0.41
1:P:902:PRO:CG	1:P:918:TRP:CZ3	3.02	0.41
1:P:789:LEU:O	1:P:790:ASP:C	2.58	0.41
1:P:360:HIS:CB	1:P:363:HIS:HB2	2.51	0.41
1:P:651:LEU:HD12	1:P:668:VAL:O	2.20	0.41
1:P:92:MET:HE1	1:P:575:LEU:HD22	2.03	0.41
1:M:24:LEU:HA	1:M:24:LEU:HD23	1.79	0.41
1:H:315:LEU:O	1:H:323:ILE:HD13	2.20	0.41
1:I:359:HIS:CG	1:I:360:HIS:N	2.88	0.41
1:E:190:ARG:HD3	1:E:191:TRP:CZ2	2.54	0.41
1:J:355:ASN:ND2	1:J:355:ASN:H	1.93	0.41
1:P:436:MET:O	1:P:439:ARG:HB2	2.21	0.41
1:H:894:ARG:NH1	1:H:920:LEU:CA	2.83	0.41
1:E:66:PRO:HD2	1:E:67:GLU:H	1.86	0.41
1:E:67:GLU:HG2	1:E:67:GLU:H	1.07	0.41
1:C:423:MET:SD	1:C:461:GLU:O	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:102:ASN:HD22	1:L:201:ASP:CG	2.24	0.41
1:H:274:PHE:HD2	1:H:288:ARG:N	2.19	0.41
1:L:36:TRP:CD2	1:L:42:ALA:CB	3.03	0.41
1:L:100:TYR:CB	1:L:203:TRP:CZ3	3.04	0.41
1:P:894:ARG:NH1	1:P:919:ASP:O	2.54	0.41
1:K:949:HIS:CD2	1:K:1020:TRP:CZ2	3.09	0.41
1:H:354:VAL:O	1:H:354:VAL:HG13	2.21	0.41
1:H:503:TYR:N	1:H:537:GLU:O	2.47	0.41
1:A:249:GLU:HG2	1:A:251:ARG:NH2	2.36	0.41
1:J:590:GLY:C	1:J:592:PHE:H	2.23	0.41
1:D:255:ARG:HD3	1:D:255:ARG:HH11	1.70	0.41
1:N:147:ASN:HB2	1:N:209:PHE:CE1	2.55	0.41
1:J:240:LEU:HG	1:J:241:GLU:N	2.36	0.41
1:N:635:THR:HG23	1:N:681:GLU:HA	2.02	0.41
1:B:920:LEU:HB3	1:B:921:PRO:CD	2.48	0.41
1:L:400:THR:CG2	1:L:404:ARG:HD2	2.43	0.41
1:L:376:ILE:HD12	1:L:401:LEU:HB3	2.02	0.41
1:B:474:TRP:CZ2	1:B:478:VAL:HG21	2.56	0.41
1:F:129:VAL:CG2	1:F:182:ASN:ND2	2.82	0.41
1:C:40:GLU:HG3	1:C:43:ARG:HH12	1.82	0.41
1:M:257:THR:C	1:M:258:VAL:HG23	2.41	0.41
1:I:778:THR:HG23	1:I:779:PRO:HD2	2.02	0.41
1:E:369:GLU:HG3	1:E:397:LEU:CD2	2.51	0.41
1:A:433:LEU:HD13	1:A:467:ASN:CB	2.44	0.41
1:N:658:LEU:O	1:N:661:LYS:HD3	2.20	0.41
1:P:505:ARG:O	1:P:519:SER:HA	2.21	0.41
1:J:581:ASN:HB3	1:J:583:ASN:ND2	2.36	0.41
1:P:365:GLN:O	1:P:367:MET:HG2	2.21	0.41
1:L:107:ILE:HG21	1:L:107:ILE:HD12	1.86	0.41
1:C:708:TRP:CZ3	1:C:709:SER:HB3	2.56	0.41
1:N:777:LEU:HD21	1:N:889:ALA:CB	2.51	0.41
1:E:280:ASP:OD2	1:H:423:MET:HB3	2.20	0.41
1:G:570:TRP:HD1	1:G:571:VAL:HG22	1.83	0.41
1:F:658:LEU:HD11	1:F:692:GLY:HA3	2.03	0.41
1:J:663:LEU:HD23	1:J:663:LEU:N	2.28	0.41
1:E:88:SER:HA	1:E:366:VAL:CG2	2.47	0.41
1:F:583:ASN:HA	1:F:584:PRO:HD2	1.76	0.41
1:D:131:GLU:O	1:D:134:LEU:N	2.50	0.41
1:K:625:GLN:OE1	1:K:716:ALA:HB1	2.21	0.41
1:I:942:ARG:NH2	1:I:954:ASP:HB2	2.33	0.41
1:I:942:ARG:HH22	1:J:1013:ARG:HD3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:878:HIS:N	1:L:878:HIS:ND1	2.67	0.41
1:J:11:LEU:N	1:J:11:LEU:HD23	2.36	0.41
1:N:46:ARG:CB	1:N:47:PRO:CD	2.98	0.41
1:D:274:PHE:HD2	1:D:288:ARG:N	2.19	0.41
1:D:902:PRO:HD3	1:D:918:TRP:CZ2	2.56	0.41
1:F:524:LEU:HD13	1:F:561:ARG:HB2	2.02	0.41
1:K:608:PHE:HD2	1:K:612:THR:O	2.04	0.41
1:I:661:LYS:HA	1:I:662:PRO:HD2	1.72	0.41
1:I:763:GLY:HA3	1:I:822:LEU:HD22	2.03	0.41
1:O:246:MET:HG2	1:O:274:PHE:CE2	2.56	0.41
1:L:813:ALA:HB3	1:L:815:HIS:CD2	2.56	0.41
1:L:653:HIS:HD2	1:L:667:GLU:CG	2.31	0.41
1:E:226:HIS:N	1:E:226:HIS:CD2	2.85	0.41
1:L:899:GLY:O	1:L:918:TRP:NE1	2.53	0.41
1:B:576:ILE:CG2	1:B:577:LYS:N	2.80	0.41
1:B:749:ILE:CD1	1:B:749:ILE:N	2.83	0.41
1:I:166:ARG:HD2	1:I:166:ARG:HA	1.64	0.41
1:A:662:PRO:C	1:A:663:LEU:HD23	2.41	0.41
1:E:271:THR:HG22	1:E:272:ALA:N	2.35	0.41
1:H:994:GLY:HA3	1:H:1003:VAL:HG23	2.03	0.41
1:A:856:TYR:CB	1:A:864:MET:HE2	2.51	0.41
1:D:853:ARG:NH1	1:D:871:GLU:OE1	2.46	0.41
1:G:777:LEU:HD12	1:G:888:LEU:O	2.21	0.41
1:O:989:PHE:HE2	1:O:1014:TYR:HB3	1.86	0.41
1:N:177:LEU:N	1:N:177:LEU:HD23	2.34	0.41
1:G:615:PRO:HB2	1:G:909:ARG:NH2	2.36	0.41
1:B:559:TYR:N	1:B:559:TYR:HD1	2.18	0.41
1:D:540:HIS:CD2	1:D:568:TRP:HD1	2.39	0.41
1:D:34:ALA:HB3	1:D:36:TRP:CZ3	2.56	0.41
1:K:205:MET:HE3	1:K:365:GLN:H	1.85	0.41
1:L:740:LEU:HD12	1:L:741:THR:N	2.36	0.41
1:F:413:ALA:HB2	1:F:443:MET:HE2	2.03	0.41
1:D:595:THR:HA	1:D:596:PRO:HA	1.80	0.41
1:E:319:ASP:OD1	1:E:320:GLY:N	2.54	0.41
1:G:301:TRP:HE3	1:G:333:ARG:HG2	1.85	0.41
1:O:797:GLU:O	1:O:798:ALA:C	2.59	0.41
1:J:813:ALA:HB1	1:J:815:HIS:HD2	1.86	0.41
1:F:742:THR:HG22	1:F:743:SER:N	2.32	0.41
1:E:851:ILE:HD11	1:F:728:VAL:CG1	2.51	0.41
1:I:604:ASN:ND2	3:I:1256:HOH:O	2.41	0.41
1:K:409:VAL:HG12	1:K:410:VAL:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:431:ARG:H	1:E:431:ARG:HG3	1.33	0.41
1:G:231:PHE:CD1	1:G:231:PHE:N	2.89	0.41
1:M:558:GLN:HG2	1:M:558:GLN:O	2.19	0.41
1:B:111:PRO:HA	1:B:112:PRO:HA	1.67	0.41
1:F:172:ASP:OD1	1:F:174:SER:HB2	2.21	0.41
1:L:797:GLU:O	1:L:800:ARG:N	2.54	0.41
1:O:492:ASP:N	1:O:492:ASP:OD1	2.52	0.41
1:E:476:LYS:HD2	1:E:476:LYS:HA	1.90	0.41
1:P:521:LYS:H	1:P:521:LYS:HG3	1.73	0.41
1:H:843:GLN:HB3	1:H:847:LYS:O	2.21	0.41
1:J:262:GLN:HE22	1:J:299:LYS:HD3	1.85	0.41
1:P:887:GLN:O	1:P:888:LEU:C	2.58	0.41
1:K:521:LYS:HD3	1:K:559:TYR:CZ	2.55	0.41
1:M:43:ARG:O	1:M:310:ARG:HD3	2.21	0.41
1:P:544:ASN:HD22	1:P:789:LEU:HD21	1.86	0.41
1:P:378:LEU:HD23	1:P:378:LEU:HA	1.95	0.41
1:P:652:LEU:HD13	1:P:700:VAL:HG23	2.03	0.41
1:H:217:LYS:HA	1:H:218:PRO:HD3	1.83	0.41
1:K:822:LEU:HD12	1:K:823:LEU:N	2.36	0.41
1:I:210:ARG:NH1	1:I:395:HIS:CA	2.84	0.41
1:P:210:ARG:NH1	1:P:395:HIS:CA	2.83	0.41
1:J:377:LEU:CD2	1:J:708:TRP:CB	2.99	0.41
1:M:572:ASP:CB	1:M:603:MET:HB3	2.41	0.41
1:H:948:PRO:HG2	1:H:949:HIS:ND1	2.36	0.41
1:L:984:LEU:CD2	1:L:986:ILE:CD1	2.99	0.41
1:E:356:ARG:NH1	1:E:356:ARG:CG	2.78	0.41
1:K:167:LEU:CB	1:K:168:PRO:CD	2.98	0.41
1:K:500:CYS:HA	1:K:534:ILE:O	2.21	0.41
1:P:890:GLN:NE2	1:P:948:PRO:HD3	2.36	0.41
1:K:202:MET:HE3	1:K:357:HIS:HD2	1.86	0.41
1:O:515:VAL:N	1:O:516:PRO:CD	2.84	0.41
1:N:279:ILE:HG12	1:N:280:ASP:N	2.35	0.41
1:H:907:PRO:HA	1:H:910:LEU:HD23	2.03	0.41
1:H:544:ASN:HB2	1:H:929:TYR:CE2	2.56	0.41
1:E:606:LEU:O	1:E:607:VAL:HG13	2.20	0.41
1:O:835:LEU:CD1	1:O:857:ARG:HB2	2.51	0.41
1:C:579:ASP:OD1	1:C:580:GLU:N	2.46	0.41
1:H:367:MET:HE2	1:H:372:MET:CG	2.49	0.41
1:H:369:GLU:O	1:H:372:MET:HB2	2.21	0.41
1:M:352:ARG:HD3	1:M:626:PHE:CZ	2.56	0.41
1:C:66:PRO:HB3	1:C:187:MET:CE	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:1018:LEU:HD23	1:P:1018:LEU:HA	1.41	0.41
1:P:950:GLN:OE1	1:P:952:ARG:NE	2.53	0.41
1:E:195:SER:O	1:E:196:TYR:C	2.57	0.41
1:F:131:GLU:O	1:F:134:LEU:N	2.42	0.41
1:E:291:LEU:N	1:E:291:LEU:CD1	2.79	0.41
1:O:429:ASP:HA	1:O:430:PRO:HD3	1.86	0.41
1:O:14:ARG:HG2	1:O:16:TRP:CZ2	2.56	0.41
1:F:768:MET:HG2	1:F:775:GLN:HB2	2.03	0.41
1:F:729:THR:C	1:F:730:LEU:HD23	2.41	0.41
1:J:304:GLU:C	1:J:305:ILE:HG12	2.42	0.41
1:D:878:HIS:CD2	1:D:1010:SER:HB3	2.56	0.41
1:B:410:VAL:HG22	1:B:455:ILE:HB	2.01	0.41
1:I:455:ILE:HG21	1:I:455:ILE:HD13	1.80	0.41
1:L:718:GLN:HG2	1:L:720:TRP:CH2	2.55	0.41
1:L:354:VAL:CG1	1:L:379:MET:CE	2.99	0.41
1:I:106:PRO:HG2	1:I:191:TRP:CZ3	2.55	0.41
1:C:368:ASP:O	1:C:369:GLU:C	2.59	0.41
1:F:694:LEU:HB3	1:F:723:ALA:H	1.85	0.41
1:B:870:VAL:CG1	1:B:871:GLU:N	2.83	0.41
1:M:810:TRP:CZ2	1:M:991:MET:HE1	2.55	0.41
1:I:783:GLN:NE2	1:I:985:ASN:OD1	2.39	0.41
1:B:538:TYR:O	1:B:567:VAL:HA	2.21	0.41
1:J:509:ASP:C	1:J:511:PRO:HD3	2.41	0.41
1:C:705:ALA:HA	3:C:1255:HOH:O	2.21	0.41
1:M:826:THR:O	1:M:836:ILE:HG23	2.20	0.41
1:J:613:PRO:HB3	1:J:617:LEU:HD23	2.03	0.41
1:A:588:TYR:O	1:A:589:GLY:C	2.60	0.41
1:I:473:ARG:HA	1:I:473:ARG:HD3	1.81	0.41
1:G:349:LEU:HD23	1:G:349:LEU:HA	1.80	0.41
1:D:679:LEU:HD23	1:D:679:LEU:N	2.34	0.41
1:F:1013:ARG:HG3	1:F:1013:ARG:HH11	1.85	0.41
1:F:164:ASP:HB3	3:F:1245:HOH:O	2.20	0.41
1:F:806:TRP:CH2	1:F:809:ARG:NH2	2.89	0.41
1:P:354:VAL:HA	1:P:567:VAL:H	1.86	0.40
1:P:538:TYR:O	1:P:567:VAL:HA	2.21	0.40
1:K:782:ASP:HB2	1:K:842:TRP:CH2	2.55	0.40
1:M:227:VAL:HG12	1:M:228:ALA:N	2.36	0.40
1:E:115:PRO:HD2	1:E:191:TRP:CD1	2.56	0.40
1:H:813:ALA:HB3	1:H:815:HIS:CD2	2.55	0.40
1:H:894:ARG:NH1	1:H:919:ASP:OD2	2.54	0.40
1:E:62:TRP:CH2	1:E:64:PRO:HA	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:79:PRO:HG2	1:G:80:GLU:H	1.85	0.40
1:G:79:PRO:CD	1:G:80:GLU:H	2.33	0.40
1:H:23:GLN:CB	1:H:26:ARG:NE	2.84	0.40
1:I:125:LEU:O	1:I:184:LEU:N	2.44	0.40
1:H:153:TRP:HE3	1:H:185:ALA:O	2.02	0.40
1:M:356:ARG:O	1:M:356:ARG:HG2	2.21	0.40
1:O:420:MET:HE2	1:O:425:ARG:HB3	2.04	0.40
1:E:360:HIS:ND1	1:E:363:HIS:N	2.54	0.40
1:D:253:TYR:HA	1:D:255:ARG:HH12	1.85	0.40
1:D:396:PRO:O	1:D:397:LEU:C	2.59	0.40
1:H:856:TYR:N	1:H:856:TYR:CD1	2.88	0.40
1:L:177:LEU:HA	1:L:177:LEU:HD22	1.89	0.40
1:P:91:GLN:HG3	1:P:96:ASP:OD1	2.21	0.40
1:G:936:GLY:O	1:G:937:LEU:C	2.60	0.40
1:G:372:MET:O	1:G:373:VAL:C	2.58	0.40
1:N:210:ARG:HH11	1:N:395:HIS:CA	2.33	0.40
1:J:651:LEU:HD12	1:J:668:VAL:O	2.21	0.40
1:P:466:ALA:O	1:P:467:ASN:C	2.59	0.40
1:O:78:LEU:CB	1:O:79:PRO:HD2	2.51	0.40
1:N:897:TRP:CE2	1:N:918:TRP:HB2	2.55	0.40
1:G:73:TRP:O	1:G:183:ARG:NH2	2.53	0.40
1:G:668:VAL:CG1	1:G:669:PRO:CD	2.99	0.40
1:L:192:SER:O	1:L:193:ASP:C	2.57	0.40
1:G:69:VAL:CG1	1:G:122:CYS:SG	3.09	0.40
1:K:627:PHE:CZ	1:K:650:GLU:HG2	2.56	0.40
1:K:646:HIS:NE2	1:K:671:ASP:OD1	2.48	0.40
1:J:654:TRP:O	1:J:665:SER:HA	2.20	0.40
1:H:413:ALA:HB2	1:H:443:MET:HE1	2.03	0.40
1:O:878:HIS:NE2	1:O:1010:SER:HB2	2.36	0.40
1:L:961:ARG:NE	1:L:981:GLY:O	2.54	0.40
1:M:108:THR:CG2	1:M:109:VAL:H	2.34	0.40
1:O:768:MET:O	1:O:775:GLN:N	2.52	0.40
1:E:743:SER:OG	1:E:744:GLU:N	2.55	0.40
1:K:1018:LEU:HD23	1:K:1018:LEU:HA	1.69	0.40
1:K:68:ALA:O	1:K:70:PRO:HD3	2.21	0.40
1:E:105:TYR:HD2	1:E:109:VAL:HG21	1.85	0.40
1:O:645:ARG:O	1:O:674:PRO:HG3	2.21	0.40
1:L:687:GLN:N	1:L:688:PRO:HD3	2.35	0.40
1:K:132:SER:HA	1:K:135:GLN:OE1	2.21	0.40
1:F:695:TRP:CE2	1:F:721:ARG:HG3	2.56	0.40
1:L:513:PRO:C	1:L:515:VAL:H	2.24	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:308:LEU:HD23	1:C:308:LEU:HA	1.81	0.40
1:C:85:VAL:O	1:C:88:SER:HB3	2.22	0.40
1:E:1003:VAL:O	1:E:1008:GLN:NE2	2.53	0.40
1:J:200:GLN:HG2	1:J:391:HIS:HB2	2.03	0.40
1:N:836:ILE:CG2	1:N:837:THR:N	2.84	0.40
1:N:927:THR:HG21	1:N:929:TYR:CZ	2.56	0.40
1:J:627:PHE:C	1:J:628:GLN:HG2	2.41	0.40
1:N:220:THR:O	1:N:220:THR:HG22	2.21	0.40
1:I:376:ILE:HG13	1:I:398:TRP:CZ3	2.56	0.40
1:M:429:ASP:OD1	1:M:431:ARG:N	2.55	0.40
1:E:68:ALA:O	1:E:69:VAL:C	2.58	0.40
1:M:132:SER:O	1:M:133:TRP:C	2.59	0.40
1:K:656:VAL:HG21	1:K:685:LEU:CD2	2.51	0.40
1:K:202:MET:CE	1:K:357:HIS:CD2	2.99	0.40
1:O:421:VAL:HA	1:O:422:PRO:HA	1.87	0.40
1:J:454:ILE:HG21	1:J:454:ILE:HD13	1.81	0.40
1:M:764:PHE:O	1:M:765:LEU:C	2.59	0.40
1:M:745:MET:O	1:M:746:ASP:HB3	2.21	0.40
1:E:967:LEU:O	1:E:969:GLU:N	2.54	0.40
1:P:471:LEU:O	1:P:475:ILE:HG12	2.22	0.40
1:A:786:ARG:HH11	1:A:990:HIS:HE1	1.69	0.40
1:O:650:GLU:HA	1:O:701:VAL:O	2.20	0.40
1:E:279:ILE:CD1	1:H:424:ASN:HB2	2.44	0.40
1:G:375:ASP:O	1:G:379:MET:HG3	2.21	0.40
1:A:315:LEU:O	1:A:323:ILE:N	2.47	0.40
1:P:453:VAL:HG12	1:P:454:ILE:N	2.36	0.40
1:M:881:ARG:HB3	1:M:990:HIS:CD2	2.55	0.40
1:K:395:HIS:HA	1:K:396:PRO:HD3	1.97	0.40
1:M:523:TRP:HA	1:M:526:LEU:HD11	2.04	0.40
1:H:456:TRP:NE1	1:H:482:ARG:CD	2.81	0.40
1:L:30:HIS:CG	1:L:33:PHE:CE2	3.10	0.40
1:B:77:ASP:O	1:B:78:LEU:HD23	2.20	0.40
1:J:820:ALA:HB2	1:J:842:TRP:NE1	2.37	0.40
1:D:1020:TRP:HD1	1:D:1021:CYS:H	1.69	0.40
1:J:369:GLU:O	1:J:372:MET:HB2	2.20	0.40
1:B:935:ASN:N	1:B:935:ASN:ND2	2.68	0.40
1:M:46:ARG:CB	1:M:47:PRO:CD	2.99	0.40
1:F:843:GLN:CG	1:F:848:THR:HA	2.51	0.40
1:L:505:ARG:O	1:L:519:SER:HA	2.21	0.40
1:N:408:TYR:HB3	1:N:454:ILE:HD13	2.02	0.40
1:D:438:GLU:O	1:D:442:ARG:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:173:LEU:HA	1:N:173:LEU:HD23	1.57	0.40
1:I:409:VAL:HG12	1:I:410:VAL:N	2.37	0.40
1:N:781:ARG:HD2	1:N:781:ARG:HH11	1.70	0.40
1:C:35:SER:HB2	1:C:217:LYS:HE2	2.02	0.40
1:K:850:PHE:O	1:K:851:ILE:HG13	2.21	0.40
1:H:1004:SER:O	1:H:1008:GLN:HG3	2.20	0.40
1:N:13:ARG:HD3	1:O:13:ARG:NH1	2.36	0.40
1:I:354:VAL:CG1	1:I:379:MET:CE	2.99	0.40
1:L:691:ALA:HA	1:L:725:ASN:CB	2.52	0.40
1:N:409:VAL:HG12	1:N:410:VAL:N	2.36	0.40
1:A:141:ILE:HG13	1:A:213:SER:O	2.21	0.40
1:L:256:VAL:N	1:L:272:ALA:O	2.54	0.40
1:O:962:TYR:CE2	1:O:976:LEU:HB3	2.56	0.40
1:E:897:TRP:CZ2	1:E:918:TRP:HB2	2.56	0.40
1:J:234:ASP:O	1:J:235:PHE:HB2	2.21	0.40
1:O:994:GLY:HA3	1:O:1003:VAL:HG22	2.03	0.40
1:I:464:HIS:N	3:I:1223:HOH:O	2.28	0.40
1:B:289:VAL:HG22	1:B:290:THR:N	2.35	0.40
1:D:802:ASP:HA	1:D:803:PRO:HD2	1.81	0.40
1:J:825:CYS:SG	1:J:825:CYS:O	2.79	0.40
1:F:553:TRP:CD1	1:F:553:TRP:N	2.90	0.40
1:C:243:GLU:HG2	1:C:243:GLU:O	2.20	0.40
1:C:53:SER:OG	1:C:55:ASN:HB2	2.21	0.40
1:C:549:PHE:O	1:C:550:ALA:C	2.57	0.40
1:P:150:PHE:O	1:P:161:TYR:HA	2.22	0.40
1:P:608:PHE:O	1:P:610:ASP:N	2.55	0.40
1:M:413:ALA:CA	1:M:443:MET:CE	3.00	0.40
1:I:395:HIS:CE1	1:I:397:LEU:CB	3.04	0.40
1:F:36:TRP:CD1	1:F:41:GLU:CB	3.01	0.40
1:P:394:ASN:O	1:P:399:TYR:HE1	2.04	0.40
1:P:423:MET:SD	1:P:461:GLU:O	2.79	0.40
1:E:9:VAL:O	1:E:12:GLN:HB3	2.22	0.40
1:L:959:ILE:CB	1:L:984:LEU:HD12	2.51	0.40
1:L:701:VAL:CG2	1:L:714:ILE:CD1	2.99	0.40
1:M:920:LEU:C	1:M:921:PRO:O	2.58	0.40
1:M:959:ILE:O	1:M:959:ILE:HG23	2.20	0.40
1:N:240:LEU:HD22	1:N:260:LEU:HD13	2.03	0.40
1:L:906:TYR:N	1:L:906:TYR:CD1	2.89	0.40
1:E:947:GLY:HA3	1:E:948:PRO:HD2	1.87	0.40
1:E:249:GLU:CD	1:E:251:ARG:HH22	2.24	0.40
1:N:279:ILE:CD1	1:O:422:PRO:CG	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:279:ILE:HD12	1:N:279:ILE:HG21	1.71	0.40
1:M:301:TRP:CD1	1:M:308:LEU:HD21	2.56	0.40
1:N:743:SER:O	1:N:760:ARG:NH1	2.51	0.40
1:H:608:PHE:CE1	1:H:614:HIS:CE1	3.09	0.40
1:D:354:VAL:CG1	1:D:379:MET:CE	3.00	0.40
1:J:111:PRO:CB	1:J:112:PRO:HA	2.50	0.40
1:L:966:GLN:OE1	1:L:977:HIS:N	2.45	0.40
1:M:232:ASN:HD21	1:M:236:SER:CA	2.34	0.40
1:I:245:GLN:HG2	1:I:288:ARG:HG2	2.04	0.40
1:O:894:ARG:HH11	1:O:919:ASP:CG	2.24	0.40
1:N:920:LEU:CB	1:N:921:PRO:CD	2.99	0.40
1:K:555:ALA:O	1:K:558:GLN:N	2.51	0.40
1:A:743:SER:O	1:A:744:GLU:C	2.56	0.40
1:J:801:ILE:HD12	1:J:801:ILE:N	2.36	0.40
1:F:579:ASP:CG	1:F:583:ASN:HB2	2.42	0.40
1:K:927:THR:HA	1:K:928:PRO:HD2	1.83	0.40
1:L:31:PRO:CB	1:L:32:PRO:CD	2.99	0.40
1:N:141:ILE:O	1:N:170:GLU:HA	2.22	0.40
1:M:331:GLY:HA3	1:M:451:PRO:HG3	2.03	0.40
1:B:658:LEU:HD21	1:B:690:SER:HB2	2.03	0.40
1:H:59:ARG:NH2	1:H:81:ALA:HB3	2.37	0.40
1:O:27:LEU:HD12	1:O:140:ARG:HH11	1.86	0.40
1:A:358:GLU:HB3	1:A:367:MET:CG	2.52	0.40
1:M:723:ALA:HB1	1:M:724:GLU:H	1.66	0.40
1:H:350:LEU:HD12	1:H:563:GLN:O	2.22	0.40
1:P:781:ARG:O	1:P:884:LEU:HA	2.22	0.40
1:K:987:ASP:OD2	1:K:990:HIS:HD2	2.05	0.40
1:D:990:HIS:HD1	1:D:991:MET:N	2.19	0.40
1:B:619:GLU:HA	1:B:912:ALA:HB2	2.04	0.40
1:O:540:HIS:CE1	1:O:999:TRP:HZ3	2.39	0.40
1:M:557:ARG:HH11	1:M:557:ARG:HG3	1.87	0.40
1:E:382:ASN:ND2	1:E:617:LEU:HD21	2.36	0.40
1:A:806:TRP:CH2	1:A:809:ARG:NH2	2.89	0.40
1:K:83:THR:CG2	1:K:84:VAL:N	2.83	0.40
1:F:475:ILE:O	1:F:476:LYS:C	2.57	0.40
1:A:486:TYR:H	1:A:496:THR:CB	2.34	0.40
1:G:606:LEU:HA	1:G:606:LEU:HD23	1.89	0.40
1:B:147:ASN:HA	1:B:148:SER:HA	1.53	0.40
1:I:631:LEU:HD22	1:I:696:LEU:HD23	2.04	0.40
1:H:38:ASN:OD1	1:H:40:GLU:N	2.54	0.40
1:G:289:VAL:HG22	1:G:290:THR:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:697:THR:OG1	1:E:719:GLN:NE2	2.54	0.40
1:H:250:LEU:HA	1:H:250:LEU:HD23	1.88	0.40
1:M:136:GLU:O	1:M:137:GLY:O	2.39	0.40
1:M:851:ILE:HG22	1:M:851:ILE:O	2.20	0.40
1:O:111:PRO:HA	1:O:112:PRO:HA	1.66	0.40
1:A:517:LYS:NZ	3:A:1238:HOH:O	2.39	0.40
1:M:69:VAL:CG1	1:M:70:PRO:CD	2.99	0.40
1:P:777:LEU:CD2	1:P:889:ALA:CB	2.99	0.40
1:P:777:LEU:CD2	1:P:889:ALA:HB2	2.50	0.40
1:P:379:MET:O	1:P:380:LYS:C	2.59	0.40
1:L:90:TRP:NE1	1:L:96:ASP:OD1	2.54	0.40
1:P:106:PRO:HD3	1:P:204:ARG:HH12	1.86	0.40
1:E:894:ARG:HH12	1:E:920:LEU:N	2.19	0.40
1:M:377:LEU:HD21	1:M:708:TRP:CB	2.51	0.40
1:L:36:TRP:CZ2	1:L:42:ALA:HA	2.54	0.40
1:H:161:TYR:CD2	1:H:162:GLY:N	2.89	0.40
1:H:878:HIS:HA	1:H:879:PRO:HD3	1.69	0.40
1:M:719:GLN:NE2	1:M:914:CYS:HB3	2.36	0.40
1:P:948:PRO:HG2	1:P:949:HIS:CE1	2.56	0.40
1:C:600:GLN:HG3	1:C:600:GLN:H	1.27	0.40
1:H:474:TRP:CH2	1:H:478:VAL:HG21	2.53	0.40
1:N:654:TRP:NE1	1:N:666:GLY:CA	2.79	0.40
1:F:301:TRP:CD1	1:F:308:LEU:CD2	3.04	0.40
1:F:43:ARG:HH21	1:F:264:GLU:HG2	1.86	0.40
1:L:679:LEU:HD23	1:L:679:LEU:HA	1.55	0.40
1:M:682:LEU:HB3	1:M:683:PRO:CD	2.46	0.40
1:N:777:LEU:CD2	1:N:889:ALA:CB	2.99	0.40
1:O:701:VAL:HA	1:O:713:HIS:O	2.21	0.40
1:N:382:ASN:O	1:N:383:ASN:HB2	2.21	0.40
1:F:657:ALA:HA	1:F:661:LYS:O	2.22	0.40
1:J:801:ILE:HG22	1:J:803:PRO:HD3	2.04	0.40
1:A:291:LEU:N	1:A:291:LEU:CD1	2.79	0.40
1:G:73:TRP:HZ2	1:G:123:TYR:O	2.04	0.40
1:K:903:GLN:O	1:K:904:GLU:C	2.58	0.40
1:I:961:ARG:CB	1:I:978:ALA:CB	2.99	0.40
1:L:165:SER:OG	1:L:198:GLU:OE1	2.38	0.40
1:G:90:TRP:HE1	1:G:96:ASP:CG	2.25	0.40
1:P:832:ASP:O	1:P:833:ALA:HB2	2.22	0.40
1:B:868:VAL:CB	1:B:1016:TYR:CE1	3.04	0.40
1:E:834:VAL:HG12	1:E:835:LEU:N	2.37	0.40
1:I:937:LEU:O	1:I:938:ARG:HG2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:361:PRO:HG3	1:N:609:ALA:O	2.21	0.40
1:N:154:CYS:O	1:N:155:ASN:C	2.59	0.40
1:G:352:ARG:HD3	1:G:383:ASN:O	2.20	0.40
1:I:141:ILE:HG21	1:I:143:PHE:HE1	1.86	0.40
1:B:577:LYS:NZ	1:B:591:ASP:O	2.30	0.40
1:C:412:GLU:HG3	1:C:457:SER:OG	2.21	0.40
1:L:627:PHE:O	1:L:628:GLN:HG2	2.21	0.40
1:M:937:LEU:CD2	1:M:939:CYS:SG	3.08	0.40
1:K:155:ASN:OD1	1:K:182:ASN:HA	2.20	0.40
1:O:40:GLU:O	1:O:41:GLU:C	2.58	0.40
1:M:689:GLU:C	1:M:690:SER:O	2.59	0.40
1:O:237:ARG:CG	1:O:237:ARG:NH1	2.85	0.40
1:N:737:ILE:HB	1:N:738:PRO:HD2	2.03	0.40
1:E:901:GLY:HA3	1:E:902:PRO:HA	1.81	0.40
1:C:217:LYS:HZ3	1:C:324:GLU:CD	2.24	0.40
1:G:821:ALA:C	1:G:840:HIS:HB3	2.42	0.40
1:F:689:GLU:C	1:F:690:SER:O	2.59	0.40
1:N:375:ASP:O	1:N:379:MET:HB2	2.21	0.40
1:G:608:PHE:HB2	1:G:612:THR:O	2.21	0.40
1:B:898:LEU:HA	1:B:898:LEU:HD12	1.66	0.40
1:J:257:THR:HG23	1:J:270:GLY:O	2.21	0.40
1:B:986:ILE:HG21	1:B:1018:LEU:HD11	2.04	0.40
1:A:35:SER:O	1:A:36:TRP:C	2.58	0.40
1:M:563:GLN:N	3:M:1211:HOH:O	2.53	0.40
1:O:380:LYS:HB3	1:O:380:LYS:HE2	1.95	0.40
1:G:13:ARG:HG3	1:G:13:ARG:H	1.71	0.40
1:C:95:TYR:N	1:C:95:TYR:CD1	2.90	0.40
1:H:533:LEU:C	1:H:533:LEU:HD12	2.41	0.40
1:K:134:LEU:HD23	1:K:134:LEU:HA	1.77	0.40
1:G:951:TRP:O	1:G:952:ARG:HG3	2.21	0.40
1:K:507:ASP:OD1	1:K:521:LYS:HE3	2.21	0.40
1:K:559:TYR:CD1	1:K:559:TYR:N	2.90	0.40
1:E:429:ASP:OD1	1:E:432:TRP:HD1	2.04	0.40
1:P:327:ALA:O	1:P:328:CYS:HB3	2.21	0.40
1:M:50:GLN:O	1:M:215:LEU:HA	2.21	0.40
1:M:38:ASN:HD21	1:M:41:GLU:N	2.15	0.40
1:M:190:ARG:HG2	1:M:206:SER:CB	2.51	0.40
1:M:540:HIS:ND1	1:M:999:TRP:CZ3	2.90	0.40
1:P:906:TYR:HD1	1:P:906:TYR:N	2.20	0.40
1:P:386:ALA:C	1:P:387:VAL:HG12	2.41	0.40
1:M:166:ARG:HG3	1:M:392:TYR:CB	2.43	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:432:TRP:O	1:M:435:ALA:HB3	2.20	0.40
1:K:471:LEU:O	1:K:475:ILE:HG13	2.22	0.40
1:O:166:ARG:HA	1:O:166:ARG:HD2	1.84	0.40
1:P:166:ARG:HB2	1:P:414:ASN:ND2	2.26	0.40
1:D:894:ARG:NH1	1:D:920:LEU:HA	2.37	0.40
1:A:132:SER:O	1:A:133:TRP:C	2.60	0.40
1:H:102:ASN:HB3	3:H:1219:HOH:O	2.21	0.40
1:J:227:VAL:HG12	1:J:240:LEU:CD1	2.52	0.40
1:E:972:HIS:HB2	1:E:974:HIS:CE1	2.56	0.40
1:B:782:ASP:HA	1:B:884:LEU:CD2	2.43	0.40
1:L:802:ASP:O	1:L:804:ASN:N	2.55	0.40
1:L:833:ALA:CB	1:L:859:ASP:HA	2.51	0.40
1:M:231:PHE:N	1:M:231:PHE:CD1	2.89	0.40
1:F:46:ARG:HB3	1:F:47:PRO:HD2	2.04	0.40
1:F:599:ARG:HB2	1:F:600:GLN:H	1.59	0.40
1:L:118:ASN:HA	1:L:119:PRO:HD2	1.82	0.40
1:P:740:LEU:HD13	1:P:749:ILE:HD11	2.04	0.40
1:O:227:VAL:CG1	1:O:228:ALA:N	2.84	0.40
1:N:350:LEU:HD12	1:N:350:LEU:HA	1.85	0.40
1:G:368:ASP:O	1:G:372:MET:HG3	2.22	0.40
1:E:961:ARG:O	1:E:979:GLU:HG3	2.21	0.40
1:J:392:TYR:HB2	1:J:393:PRO:HD2	2.03	0.40
1:J:166:ARG:HB3	1:J:393:PRO:HG2	2.04	0.40
1:A:881:ARG:HD3	1:A:987:ASP:CG	2.42	0.40
1:E:129:VAL:HG21	1:E:182:ASN:ND2	2.37	0.40
1:P:788:PRO:CB	1:P:807:VAL:CG2	3.00	0.40
1:C:66:PRO:O	1:C:68:ALA:N	2.55	0.40
1:B:237:ARG:HH11	1:B:237:ARG:HG3	1.85	0.40
1:L:533:LEU:HD12	1:L:534:ILE:N	2.36	0.40
1:N:44:THR:O	1:N:45:ASP:C	2.60	0.40
1:L:27:LEU:HD12	1:L:140:ARG:HD3	2.04	0.40
1:A:78:LEU:CB	1:A:79:PRO:HD2	2.44	0.40
1:K:645:ARG:HH22	1:K:648:ASP:H	1.68	0.40
1:H:214:LEU:HA	1:H:214:LEU:HD23	1.90	0.40
1:G:147:ASN:CA	1:G:165:SER:HB3	2.52	0.40
1:A:682:LEU:CB	1:A:683:PRO:CD	2.99	0.40
1:P:59:ARG:HA	1:P:82:ASP:O	2.22	0.40
1:F:232:ASN:N	1:F:232:ASN:OD1	2.55	0.40
1:H:330:VAL:HG12	1:H:331:GLY:N	2.36	0.40
1:K:868:VAL:CG1	1:K:869:ASP:N	2.79	0.40
1:K:30:HIS:ND1	1:K:31:PRO:O	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:105:TYR:CE1	1:E:199:ASP:HB2	2.57	0.40
1:H:62:TRP:C	1:H:63:PHE:CD1	2.94	0.40
1:F:807:VAL:CG1	1:F:808:GLU:N	2.81	0.40
1:C:802:ASP:C	1:C:804:ASN:H	2.24	0.40
1:F:125:LEU:O	1:F:183:ARG:HA	2.22	0.40
1:D:577:LYS:HD3	1:D:585:TRP:CZ2	2.56	0.40
1:D:367:MET:HA	1:D:367:MET:HE3	2.03	0.40
1:A:210:ARG:NH1	1:A:395:HIS:N	2.70	0.40
1:K:387:VAL:HG21	1:K:398:TRP:HZ2	1.87	0.40
1:J:612:THR:HA	1:J:613:PRO:HD3	1.78	0.40
1:G:606:LEU:O	1:G:614:HIS:HB2	2.22	0.40
1:K:947:GLY:HA3	1:K:948:PRO:HD2	1.82	0.40
1:B:802:ASP:O	1:B:808:GLU:HG3	2.22	0.40
1:N:110:ASN:O	1:N:113:PHE:N	2.55	0.40
1:B:63:PHE:HB3	1:B:64:PRO:HD2	2.03	0.40
1:I:31:PRO:CB	1:I:32:PRO:HD2	2.51	0.40
1:E:682:LEU:HD23	1:E:682:LEU:HA	1.64	0.40
1:J:482:ARG:HA	1:J:483:PRO:HD3	1.91	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	1019/1023 (100%)	909 (89%)	92 (9%)	18 (2%)	11	18
1	B	1019/1023 (100%)	914 (90%)	85 (8%)	20 (2%)	9	15
1	C	1019/1023 (100%)	919 (90%)	81 (8%)	19 (2%)	10	16
1	D	1019/1023 (100%)	910 (89%)	98 (10%)	11 (1%)	17	31
1	E	1019/1023 (100%)	842 (83%)	135 (13%)	42 (4%)	3	4
1	F	1019/1023 (100%)	892 (88%)	101 (10%)	26 (3%)	7	10

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	G	1019/1023 (100%)	893 (88%)	101 (10%)	25 (2%)	7	10
1	H	1019/1023 (100%)	845 (83%)	140 (14%)	34 (3%)	5	6
1	I	1019/1023 (100%)	884 (87%)	111 (11%)	24 (2%)	7	11
1	J	1019/1023 (100%)	887 (87%)	118 (12%)	14 (1%)	14	24
1	K	1019/1023 (100%)	855 (84%)	131 (13%)	33 (3%)	5	6
1	L	1019/1023 (100%)	838 (82%)	146 (14%)	35 (3%)	5	6
1	M	1019/1023 (100%)	836 (82%)	127 (12%)	56 (6%)	2	2
1	N	1019/1023 (100%)	875 (86%)	117 (12%)	27 (3%)	7	10
1	O	1019/1023 (100%)	889 (87%)	102 (10%)	28 (3%)	6	9
1	P	1019/1023 (100%)	797 (78%)	164 (16%)	58 (6%)	2	2
All	All	16304/16368 (100%)	13985 (86%)	1849 (11%)	470 (3%)	6	8

All (470) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	252	ASP
1	A	277	GLU
1	A	389	CYS
1	A	541	ALA
1	A	659	ASP
1	B	252	ASP
1	B	425	ARG
1	B	659	ASP
1	B	688	PRO
1	C	137	GLY
1	C	425	ARG
1	D	252	ASP
1	E	27	LEU
1	E	119	PRO
1	E	204	ARG
1	E	211	ASP
1	E	252	ASP
1	E	274	PHE
1	E	425	ARG
1	E	448	ARG
1	E	647	SER
1	F	45	ASP
1	F	339	ASN

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Mol	Chain	Res	Type
1	F	425	ARG
1	G	155	ASN
1	G	252	ASP
1	G	389	CYS
1	G	540	HIS
1	G	740	LEU
1	G	741	THR
1	G	937	LEU
1	H	27	LEU
1	H	155	ASN
1	H	211	ASP
1	H	252	ASP
1	H	550	ALA
1	H	765	LEU
1	I	27	LEU
1	I	45	ASP
1	I	274	PHE
1	I	540	HIS
1	I	937	LEU
1	J	425	ARG
1	K	135	GLN
1	K	252	ASP
1	K	659	ASP
1	K	979	GLU
1	L	150	PHE
1	L	174	SER
1	L	252	ASP
1	L	374	GLN
1	L	425	ARG
1	L	448	ARG
1	L	488	GLY
1	L	541	ALA
1	L	581	ASN
1	L	1009	LEU
1	M	27	LEU
1	M	36	TRP
1	M	67	GLU
1	M	137	GLY
1	M	164	ASP
1	M	211	ASP
1	M	252	ASP
1	M	277	GLU

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Mol	Chain	Res	Type
1	M	414	ASN
1	M	425	ARG
1	M	448	ARG
1	M	491	ALA
1	M	540	HIS
1	M	541	ALA
1	N	45	ASP
1	N	137	GLY
1	N	201	ASP
1	N	274	PHE
1	N	396	PRO
1	N	425	ARG
1	N	591	ASP
1	N	722	LEU
1	N	937	LEU
1	O	8	ALA
1	O	137	GLY
1	O	425	ARG
1	O	647	SER
1	P	35	SER
1	P	136	GLU
1	P	137	GLY
1	P	159	VAL
1	P	252	ASP
1	P	289	VAL
1	P	414	ASN
1	P	448	ARG
1	P	461	GLU
1	P	540	HIS
1	P	541	ALA
1	P	649	ASN
1	P	909	ARG
1	P	924	ASP
1	P	936	GLY
1	A	540	HIS
1	A	609	ALA
1	B	46	ARG
1	B	609	ALA
1	B	831	ALA
1	C	67	GLU
1	C	579	ASP
1	D	35	SER

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Mol	Chain	Res	Type
1	D	235	PHE
1	D	591	ASP
1	E	41	GLU
1	E	45	ASP
1	E	137	GLY
1	E	199	ASP
1	E	275	GLY
1	E	514	ALA
1	E	546	LEU
1	E	589	GLY
1	E	707	ALA
1	E	891	VAL
1	F	67	GLU
1	F	647	SER
1	F	688	PRO
1	F	690	SER
1	F	803	PRO
1	G	274	PHE
1	G	461	GLU
1	G	541	ALA
1	G	580	GLU
1	G	659	ASP
1	G	815	HIS
1	H	14	ARG
1	H	275	GLY
1	H	414	ASN
1	H	448	ARG
1	H	549	PHE
1	H	590	GLY
1	H	601	PHE
1	H	936	GLY
1	I	425	ARG
1	I	541	ALA
1	I	815	HIS
1	J	71	GLU
1	J	274	PHE
1	J	609	ALA
1	K	174	SER
1	K	233	ASP
1	K	339	ASN
1	K	340	GLY
1	K	448	ARG

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Mol	Chain	Res	Type
1	K	461	GLU
1	K	601	PHE
1	K	846	GLY
1	K	936	GLY
1	L	31	PRO
1	L	196	TYR
1	L	461	GLU
1	L	489	GLY
1	L	540	HIS
1	L	609	ALA
1	L	765	LEU
1	L	936	GLY
1	M	14	ARG
1	M	82	ASP
1	M	90	TRP
1	M	92	MET
1	M	144	ASP
1	M	196	TYR
1	M	372	MET
1	M	390	SER
1	M	452	SER
1	M	891	VAL
1	N	211	ASP
1	N	281	GLU
1	N	874	SER
1	O	7	LEU
1	O	45	ASP
1	O	461	GLU
1	O	930	VAL
1	P	158	TRP
1	P	164	ASP
1	P	275	GLY
1	P	298	PRO
1	P	480	PRO
1	P	481	SER
1	P	546	LEU
1	P	601	PHE
1	P	609	ALA
1	P	617	LEU
1	P	812	ALA
1	A	164	ASP
1	A	273	PRO

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Mol	Chain	Res	Type
1	B	155	ASN
1	B	448	ARG
1	B	461	GLU
1	B	980	GLU
1	C	414	ASN
1	C	540	HIS
1	C	674	PRO
1	C	803	PRO
1	D	599	ARG
1	D	1006	GLU
1	E	36	TRP
1	E	40	GLU
1	E	104	THR
1	E	124	SER
1	E	174	SER
1	E	396	PRO
1	E	418	HIS
1	E	511	PRO
1	E	540	HIS
1	E	591	ASP
1	E	609	ALA
1	E	928	PRO
1	F	27	LEU
1	F	252	ASP
1	F	580	GLU
1	F	609	ALA
1	F	788	PRO
1	G	35	SER
1	G	591	ASP
1	G	1006	GLU
1	H	30	HIS
1	H	46	ARG
1	H	67	GLU
1	H	425	ARG
1	H	461	GLU
1	I	179	ALA
1	I	206	SER
1	I	398	TRP
1	I	609	ALA
1	J	133	TRP
1	J	252	ASP
1	J	923	SER

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Mol	Chain	Res	Type
1	K	164	ASP
1	K	201	ASP
1	K	580	GLU
1	K	751	LEU
1	K	765	LEU
1	K	824	GLN
1	K	1009	LEU
1	L	119	PRO
1	L	580	GLU
1	L	877	PRO
1	L	937	LEU
1	M	31	PRO
1	M	419	GLY
1	M	461	GLU
1	M	580	GLU
1	M	586	SER
1	M	601	PHE
1	M	609	ALA
1	M	1006	GLU
1	N	41	GLU
1	N	46	ARG
1	N	47	PRO
1	N	765	LEU
1	O	318	ALA
1	O	324	GLU
1	O	369	GLU
1	O	540	HIS
1	O	541	ALA
1	O	553	TRP
1	O	722	LEU
1	O	845	GLN
1	P	5	ASP
1	P	119	PRO
1	P	144	ASP
1	P	274	PHE
1	P	306	PRO
1	P	549	PHE
1	P	550	ALA
1	P	591	ASP
1	P	690	SER
1	P	746	ASP
1	P	770	ILE

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Mol	Chain	Res	Type
1	P	811	LYS
1	P	997	ASP
1	A	425	ARG
1	A	675	GLN
1	A	751	LEU
1	B	414	ASN
1	C	164	ASP
1	C	609	ALA
1	C	765	LEU
1	C	787	ALA
1	D	488	GLY
1	D	553	TRP
1	E	66	PRO
1	E	968	MET
1	E	997	ASP
1	F	174	SER
1	F	177	LEU
1	G	119	PRO
1	G	273	PRO
1	H	150	PHE
1	H	274	PHE
1	H	591	ASP
1	H	937	LEU
1	I	24	LEU
1	I	79	PRO
1	I	119	PRO
1	I	389	CYS
1	I	396	PRO
1	I	765	LEU
1	K	604	ASN
1	K	647	SER
1	K	690	SER
1	K	738	PRO
1	K	803	PRO
1	K	937	LEU
1	L	617	LEU
1	L	875	ASP
1	M	10	VAL
1	M	46	ARG
1	M	150	PHE
1	M	396	PRO
1	M	488	GLY

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Mol	Chain	Res	Type
1	M	599	ARG
1	M	707	ALA
1	M	738	PRO
1	N	35	SER
1	N	124	SER
1	N	546	LEU
1	O	70	PRO
1	O	370	GLN
1	O	1006	GLU
1	P	389	CYS
1	P	418	HIS
1	P	824	GLN
1	P	949	HIS
1	P	950	GLN
1	A	370	GLN
1	A	511	PRO
1	A	546	LEU
1	A	839	ALA
1	A	845	GLN
1	B	524	LEU
1	B	937	LEU
1	C	591	ASP
1	C	937	LEU
1	D	928	PRO
1	E	67	GLU
1	E	318	ALA
1	E	414	ASN
1	E	904	GLU
1	F	281	GLU
1	F	461	GLU
1	F	684	GLU
1	F	765	LEU
1	F	922	LEU
1	G	31	PRO
1	G	275	GLY
1	G	909	ARG
1	H	135	GLN
1	H	909	ARG
1	H	928	PRO
1	I	36	TRP
1	I	137	GLY
1	I	192	SER

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Mol	Chain	Res	Type
1	I	822	LEU
1	I	961	ARG
1	J	119	PRO
1	J	233	ASP
1	J	264	GLU
1	J	928	PRO
1	K	11	LEU
1	K	418	HIS
1	K	541	ALA
1	L	233	ASP
1	L	486	TYR
1	L	788	PRO
1	L	803	PRO
1	L	891	VAL
1	M	119	PRO
1	M	328	CYS
1	M	690	SER
1	M	788	PRO
1	M	845	GLN
1	M	909	ARG
1	N	7	LEU
1	N	39	SER
1	N	177	LEU
1	N	798	ALA
1	N	1005	ALA
1	O	132	SER
1	O	136	GLU
1	O	448	ARG
1	O	688	PRO
1	O	815	HIS
1	P	9	VAL
1	P	135	GLN
1	P	370	GLN
1	P	374	GLN
1	P	743	SER
1	P	930	VAL
1	P	934	GLU
1	A	488	GLY
1	B	47	PRO
1	B	164	ASP
1	B	633	GLY
1	C	396	PRO

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Mol	Chain	Res	Type
1	D	201	ASP
1	E	788	PRO
1	F	1006	GLU
1	G	589	GLY
1	H	119	PRO
1	H	289	VAL
1	H	371	THR
1	H	541	ALA
1	H	589	GLY
1	H	879	PRO
1	J	1006	GLU
1	K	10	VAL
1	K	92	MET
1	K	539	ALA
1	K	683	PRO
1	L	527	PRO
1	L	599	ARG
1	L	601	PHE
1	M	474	TRP
1	M	882	ILE
1	M	924	ASP
1	N	155	ASN
1	O	206	SER
1	P	30	HIS
1	P	46	ARG
1	C	273	PRO
1	C	936	GLY
1	F	46	ARG
1	I	454	ILE
1	L	94	GLY
1	M	32	PRO
1	M	928	PRO
1	N	674	PRO
1	O	891	VAL
1	P	396	PRO
1	P	490	GLY
1	C	119	PRO
1	E	146	VAL
1	G	930	VAL
1	H	787	ALA
1	J	66	PRO
1	J	396	PRO

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Mol	Chain	Res	Type
1	L	79	PRO
1	L	787	ALA
1	M	9	VAL
1	M	803	PRO
1	N	119	PRO
1	P	395	HIS
1	P	489	GLY
1	B	488	GLY
1	F	590	GLY
1	F	891	VAL
1	F	1001	PRO
1	G	891	VAL
1	H	47	PRO
1	M	451	PRO
1	O	662	PRO
1	O	803	PRO
1	B	936	GLY
1	D	738	PRO
1	F	928	PRO
1	G	803	PRO
1	M	879	PRO
1	P	483	PRO
1	B	480	PRO
1	C	788	PRO
1	E	298	PRO
1	E	488	GLY
1	M	787	ALA

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	873/875 (100%)	723 (83%)	150 (17%)	2 4
1	B	873/875 (100%)	709 (81%)	164 (19%)	2 3
1	C	873/875 (100%)	754 (86%)	119 (14%)	5 8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	873/875 (100%)	729 (84%)	144 (16%)	3	5
1	E	873/875 (100%)	686 (79%)	187 (21%)	1	2
1	F	873/875 (100%)	735 (84%)	138 (16%)	3	5
1	G	873/875 (100%)	717 (82%)	156 (18%)	2	3
1	H	873/875 (100%)	693 (79%)	180 (21%)	1	2
1	I	873/875 (100%)	716 (82%)	157 (18%)	2	3
1	J	873/875 (100%)	755 (86%)	118 (14%)	5	9
1	K	873/875 (100%)	722 (83%)	151 (17%)	2	4
1	L	873/875 (100%)	704 (81%)	169 (19%)	2	3
1	M	873/875 (100%)	677 (78%)	196 (22%)	1	1
1	N	873/875 (100%)	717 (82%)	156 (18%)	2	3
1	O	873/875 (100%)	715 (82%)	158 (18%)	2	3
1	P	873/875 (100%)	665 (76%)	208 (24%)	1	1
All	All	13968/14000 (100%)	11417 (82%)	2551 (18%)	2	3

All (2551) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ILE
1	A	4	THR
1	A	6	SER
1	A	13	ARG
1	A	14	ARG
1	A	23	GLN
1	A	24	LEU
1	A	48	SER
1	A	51	LEU
1	A	52	ARG
1	A	54	LEU
1	A	59	ARG
1	A	67	GLU
1	A	71	GLU
1	A	72	SER
1	A	80	GLU
1	A	90	TRP
1	A	101	THR
1	A	102	ASN

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Mol	Chain	Res	Type
1	A	108	THR
1	A	114	VAL
1	A	116	THR
1	A	124	SER
1	A	128	ASN
1	A	131	GLU
1	A	134	LEU
1	A	136	GLU
1	A	140	ARG
1	A	165	SER
1	A	166	ARG
1	A	186	VAL
1	A	190	ARG
1	A	204	ARG
1	A	206	SER
1	A	211	ASP
1	A	213	SER
1	A	219	THR
1	A	230	ARG
1	A	231	PHE
1	A	236	SER
1	A	237	ARG
1	A	246	MET
1	A	247	CYS
1	A	259	SER
1	A	277	GLU
1	A	279	ILE
1	A	282	ARG
1	A	288	ARG
1	A	296	GLU
1	A	300	LEU
1	A	310	ARG
1	A	316	HIS
1	A	319	ASP
1	A	333	ARG
1	A	343	LEU
1	A	344	LEU
1	A	356	ARG
1	A	385	ASN
1	A	387	VAL
1	A	392	TYR
1	A	394	ASN

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Mol	Chain	Res	Type
1	A	395	HIS
1	A	404	ARG
1	A	424	ASN
1	A	448	ARG
1	A	461	GLU
1	A	467	ASN
1	A	473	ARG
1	A	485	GLN
1	A	494	THR
1	A	519	SER
1	A	522	LYS
1	A	529	GLU
1	A	531	ARG
1	A	533	LEU
1	A	545	SER
1	A	546	LEU
1	A	554	GLN
1	A	571	VAL
1	A	576	ILE
1	A	600	GLN
1	A	604	ASN
1	A	614	HIS
1	A	618	THR
1	A	630	ARG
1	A	632	SER
1	A	634	GLN
1	A	635	THR
1	A	645	ARG
1	A	652	LEU
1	A	661	LYS
1	A	665	SER
1	A	667	GLU
1	A	672	VAL
1	A	681	GLU
1	A	689	GLU
1	A	690	SER
1	A	699	ARG
1	A	719	GLN
1	A	721	ARG
1	A	728	VAL
1	A	734	SER
1	A	737	ILE

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Mol	Chain	Res	Type
1	A	748	CYS
1	A	749	ILE
1	A	750	GLU
1	A	751	LEU
1	A	754	LYS
1	A	768	MET
1	A	773	LYS
1	A	781	ARG
1	A	782	ASP
1	A	790	ASP
1	A	796	SER
1	A	799	THR
1	A	804	ASN
1	A	819	GLU
1	A	823	LEU
1	A	824	GLN
1	A	828	ASP
1	A	843	GLN
1	A	845	GLN
1	A	849	LEU
1	A	850	PHE
1	A	854	LYS
1	A	856	TYR
1	A	858	ILE
1	A	863	GLN
1	A	866	ILE
1	A	867	THR
1	A	881	ARG
1	A	885	ASN
1	A	893	GLU
1	A	894	ARG
1	A	925	MET
1	A	934	GLU
1	A	938	ARG
1	A	951	TRP
1	A	956	GLN
1	A	961	ARG
1	A	968	MET
1	A	984	LEU
1	A	986	ILE
1	A	991	MET
1	A	997	ASP

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Mol	Chain	Res	Type
1	A	1006	GLU
1	A	1013	ARG
1	A	1018	LEU
1	A	1021	CYS
1	A	1023	LYS
1	B	3	ILE
1	B	7	LEU
1	B	11	LEU
1	B	24	LEU
1	B	46	ARG
1	B	48	SER
1	B	52	ARG
1	B	57	GLU
1	B	62	TRP
1	B	67	GLU
1	B	71	GLU
1	B	72	SER
1	B	76	CYS
1	B	80	GLU
1	B	90	TRP
1	B	99	ILE
1	B	101	THR
1	B	102	ASN
1	B	124	SER
1	B	128	ASN
1	B	129	VAL
1	B	131	GLU
1	B	134	LEU
1	B	135	GLN
1	B	136	GLU
1	B	140	ARG
1	B	144	ASP
1	B	165	SER
1	B	166	ARG
1	B	178	ARG
1	B	189	LEU
1	B	190	ARG
1	B	193	ASP
1	B	210	ARG
1	B	211	ASP
1	B	213	SER
1	B	214	LEU

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Mol	Chain	Res	Type
1	B	219	THR
1	B	237	ARG
1	B	240	LEU
1	B	246	MET
1	B	247	CYS
1	B	255	ARG
1	B	259	SER
1	B	262	GLN
1	B	264	GLU
1	B	267	VAL
1	B	269	SER
1	B	279	ILE
1	B	302	SER
1	B	310	ARG
1	B	314	GLU
1	B	322	LEU
1	B	324	GLU
1	B	333	ARG
1	B	335	VAL
1	B	338	GLU
1	B	344	LEU
1	B	352	ARG
1	B	377	LEU
1	B	385	ASN
1	B	394	ASN
1	B	400	THR
1	B	420	MET
1	B	423	MET
1	B	424	ASN
1	B	425	ARG
1	B	431	ARG
1	B	437	SER
1	B	446	ARG
1	B	448	ARG
1	B	461	GLU
1	B	467	ASN
1	B	473	ARG
1	B	499	ILE
1	B	505	ARG
1	B	508	GLU
1	B	515	VAL
1	B	519	SER

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Mol	Chain	Res	Type
1	B	522	LYS
1	B	523	TRP
1	B	529	GLU
1	B	533	LEU
1	B	538	TYR
1	B	545	SER
1	B	546	LEU
1	B	551	LYS
1	B	580	GLU
1	B	599	ARG
1	B	600	GLN
1	B	614	HIS
1	B	630	ARG
1	B	632	SER
1	B	634	GLN
1	B	643	LEU
1	B	645	ARG
1	B	651	LEU
1	B	655	MET
1	B	656	VAL
1	B	661	LYS
1	B	663	LEU
1	B	670	LEU
1	B	678	GLN
1	B	680	ILE
1	B	689	GLU
1	B	690	SER
1	B	720	TRP
1	B	729	THR
1	B	734	SER
1	B	737	ILE
1	B	741	THR
1	B	743	SER
1	B	748	CYS
1	B	751	LEU
1	B	754	LYS
1	B	755	ARG
1	B	761	GLN
1	B	768	MET
1	B	773	LYS
1	B	774	LYS
1	B	775	GLN

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Mol	Chain	Res	Type
1	B	777	LEU
1	B	778	THR
1	B	781	ARG
1	B	789	LEU
1	B	796	SER
1	B	799	THR
1	B	817	GLN
1	B	819	GLU
1	B	822	LEU
1	B	829	THR
1	B	832	ASP
1	B	836	ILE
1	B	850	PHE
1	B	854	LYS
1	B	857	ARG
1	B	858	ILE
1	B	866	ILE
1	B	867	THR
1	B	868	VAL
1	B	876	THR
1	B	881	ARG
1	B	885	ASN
1	B	890	GLN
1	B	893	GLU
1	B	910	LEU
1	B	923	SER
1	B	934	GLU
1	B	935	ASN
1	B	937	LEU
1	B	938	ARG
1	B	942	ARG
1	B	950	GLN
1	B	951	TRP
1	B	956	GLN
1	B	968	MET
1	B	986	ILE
1	B	993	ILE
1	B	997	ASP
1	B	1002	SER
1	B	1006	GLU
1	B	1016	TYR
1	B	1019	VAL

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Mol	Chain	Res	Type
1	B	1021	CYS
1	C	3	ILE
1	C	13	ARG
1	C	24	LEU
1	C	37	ARG
1	C	38	ASN
1	C	48	SER
1	C	49	GLN
1	C	52	ARG
1	C	67	GLU
1	C	77	ASP
1	C	80	GLU
1	C	90	TRP
1	C	101	THR
1	C	102	ASN
1	C	114	VAL
1	C	123	TYR
1	C	125	LEU
1	C	131	GLU
1	C	132	SER
1	C	134	LEU
1	C	138	GLN
1	C	165	SER
1	C	166	ARG
1	C	187	MET
1	C	189	LEU
1	C	190	ARG
1	C	202	MET
1	C	211	ASP
1	C	213	SER
1	C	219	THR
1	C	237	ARG
1	C	246	MET
1	C	247	CYS
1	C	250	LEU
1	C	255	ARG
1	C	259	SER
1	C	262	GLN
1	C	279	ILE
1	C	310	ARG
1	C	314	GLU
1	C	333	ARG

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Mol	Chain	Res	Type
1	C	336	ARG
1	C	372	MET
1	C	385	ASN
1	C	397	LEU
1	C	411	ASP
1	C	424	ASN
1	C	425	ARG
1	C	437	SER
1	C	439	ARG
1	C	448	ARG
1	C	471	LEU
1	C	473	ARG
1	C	499	ILE
1	C	516	PRO
1	C	519	SER
1	C	529	GLU
1	C	533	LEU
1	C	545	SER
1	C	546	LEU
1	C	551	LYS
1	C	554	GLN
1	C	571	VAL
1	C	581	ASN
1	C	599	ARG
1	C	600	GLN
1	C	645	ARG
1	C	651	LEU
1	C	656	VAL
1	C	661	LYS
1	C	680	ILE
1	C	689	GLU
1	C	690	SER
1	C	714	ILE
1	C	719	GLN
1	C	727	SER
1	C	728	VAL
1	C	741	THR
1	C	743	SER
1	C	748	CYS
1	C	749	ILE
1	C	751	LEU
1	C	766	SER

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Mol	Chain	Res	Type
1	C	768	MET
1	C	776	LEU
1	C	781	ARG
1	C	799	THR
1	C	807	VAL
1	C	817	GLN
1	C	824	GLN
1	C	826	THR
1	C	832	ASP
1	C	836	ILE
1	C	837	THR
1	C	843	GLN
1	C	849	LEU
1	C	850	PHE
1	C	854	LYS
1	C	866	ILE
1	C	867	THR
1	C	874	SER
1	C	881	ARG
1	C	885	ASN
1	C	894	ARG
1	C	910	LEU
1	C	917	ARG
1	C	923	SER
1	C	934	GLU
1	C	938	ARG
1	C	950	GLN
1	C	954	ASP
1	C	956	GLN
1	C	968	MET
1	C	980	GLU
1	C	986	ILE
1	C	1002	SER
1	C	1006	GLU
1	C	1018	LEU
1	C	1023	LYS
1	D	3	ILE
1	D	6	SER
1	D	7	LEU
1	D	13	ARG
1	D	14	ARG
1	D	21	VAL

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Mol	Chain	Res	Type
1	D	24	LEU
1	D	27	LEU
1	D	48	SER
1	D	49	GLN
1	D	52	ARG
1	D	57	GLU
1	D	66	PRO
1	D	67	GLU
1	D	72	SER
1	D	77	ASP
1	D	80	GLU
1	D	90	TRP
1	D	95	TYR
1	D	101	THR
1	D	107	ILE
1	D	108	THR
1	D	114	VAL
1	D	116	THR
1	D	124	SER
1	D	125	LEU
1	D	129	VAL
1	D	131	GLU
1	D	141	ILE
1	D	166	ARG
1	D	169	SER
1	D	174	SER
1	D	181	GLU
1	D	186	VAL
1	D	189	LEU
1	D	190	ARG
1	D	193	ASP
1	D	202	MET
1	D	211	ASP
1	D	213	SER
1	D	219	THR
1	D	221	GLN
1	D	229	THR
1	D	237	ARG
1	D	243	GLU
1	D	246	MET
1	D	247	CYS
1	D	252	ASP

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Mol	Chain	Res	Type
1	D	255	ARG
1	D	259	SER
1	D	267	VAL
1	D	277	GLU
1	D	279	ILE
1	D	300	LEU
1	D	310	ARG
1	D	312	VAL
1	D	314	GLU
1	D	322	LEU
1	D	333	ARG
1	D	336	ARG
1	D	343	LEU
1	D	344	LEU
1	D	347	LYS
1	D	371	THR
1	D	379	MET
1	D	385	ASN
1	D	420	MET
1	D	433	LEU
1	D	448	ARG
1	D	461	GLU
1	D	467	ASN
1	D	473	ARG
1	D	475	ILE
1	D	477	SER
1	D	515	VAL
1	D	517	LYS
1	D	519	SER
1	D	521	LYS
1	D	522	LYS
1	D	525	SER
1	D	529	GLU
1	D	533	LEU
1	D	545	SER
1	D	546	LEU
1	D	551	LYS
1	D	586	SER
1	D	588	TYR
1	D	599	ARG
1	D	600	GLN
1	D	610	ASP

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Mol	Chain	Res	Type
1	D	614	HIS
1	D	630	ARG
1	D	632	SER
1	D	634	GLN
1	D	648	ASP
1	D	651	LEU
1	D	661	LYS
1	D	663	LEU
1	D	665	SER
1	D	672	VAL
1	D	684	GLU
1	D	690	SER
1	D	697	THR
1	D	699	ARG
1	D	710	GLU
1	D	719	GLN
1	D	730	LEU
1	D	743	SER
1	D	748	CYS
1	D	749	ILE
1	D	766	SER
1	D	768	MET
1	D	772	ASP
1	D	781	ARG
1	D	782	ASP
1	D	799	THR
1	D	819	GLU
1	D	822	LEU
1	D	824	GLN
1	D	826	THR
1	D	832	ASP
1	D	847	LYS
1	D	854	LYS
1	D	857	ARG
1	D	867	THR
1	D	881	ARG
1	D	884	LEU
1	D	893	GLU
1	D	894	ARG
1	D	917	ARG
1	D	920	LEU
1	D	931	PHE

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Mol	Chain	Res	Type
1	D	938	ARG
1	D	950	GLN
1	D	951	TRP
1	D	956	GLN
1	D	968	MET
1	D	970	THR
1	D	991	MET
1	D	1002	SER
1	D	1006	GLU
1	D	1018	LEU
1	D	1021	CYS
1	D	1023	LYS
1	E	3	ILE
1	E	4	THR
1	E	6	SER
1	E	11	LEU
1	E	13	ARG
1	E	14	ARG
1	E	21	VAL
1	E	24	LEU
1	E	25	ASN
1	E	26	ARG
1	E	27	LEU
1	E	35	SER
1	E	39	SER
1	E	43	ARG
1	E	49	GLN
1	E	50	GLN
1	E	51	LEU
1	E	52	ARG
1	E	67	GLU
1	E	72	SER
1	E	76	CYS
1	E	77	ASP
1	E	80	GLU
1	E	85	VAL
1	E	90	TRP
1	E	101	THR
1	E	107	ILE
1	E	108	THR
1	E	114	VAL
1	E	123	TYR

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Mol	Chain	Res	Type
1	E	125	LEU
1	E	128	ASN
1	E	131	GLU
1	E	134	LEU
1	E	138	GLN
1	E	139	THR
1	E	140	ARG
1	E	141	ILE
1	E	157	ARG
1	E	165	SER
1	E	166	ARG
1	E	173	LEU
1	E	176	PHE
1	E	189	LEU
1	E	190	ARG
1	E	197	LEU
1	E	204	ARG
1	E	211	ASP
1	E	214	LEU
1	E	217	LYS
1	E	219	THR
1	E	237	ARG
1	E	246	MET
1	E	247	CYS
1	E	250	LEU
1	E	252	ASP
1	E	255	ARG
1	E	258	VAL
1	E	259	SER
1	E	277	GLU
1	E	288	ARG
1	E	289	VAL
1	E	293	LEU
1	E	300	LEU
1	E	310	ARG
1	E	312	VAL
1	E	316	HIS
1	E	322	LEU
1	E	324	GLU
1	E	329	ASP
1	E	333	ARG
1	E	336	ARG

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Mol	Chain	Res	Type
1	E	344	LEU
1	E	356	ARG
1	E	359	HIS
1	E	369	GLU
1	E	377	LEU
1	E	380	LYS
1	E	385	ASN
1	E	394	ASN
1	E	418	HIS
1	E	423	MET
1	E	424	ASN
1	E	425	ARG
1	E	429	ASP
1	E	431	ARG
1	E	433	LEU
1	E	436	MET
1	E	437	SER
1	E	438	GLU
1	E	448	ARG
1	E	473	ARG
1	E	475	ILE
1	E	493	THR
1	E	502	MET
1	E	515	VAL
1	E	523	TRP
1	E	533	LEU
1	E	538	TYR
1	E	545	SER
1	E	546	LEU
1	E	554	GLN
1	E	557	ARG
1	E	571	VAL
1	E	575	LEU
1	E	576	ILE
1	E	599	ARG
1	E	600	GLN
1	E	604	ASN
1	E	614	HIS
1	E	618	THR
1	E	630	ARG
1	E	634	GLN
1	E	635	THR

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Mol	Chain	Res	Type
1	E	651	LEU
1	E	655	MET
1	E	661	LYS
1	E	667	GLU
1	E	672	VAL
1	E	689	GLU
1	E	690	SER
1	E	693	GLN
1	E	702	GLN
1	E	710	GLU
1	E	719	GLN
1	E	727	SER
1	E	728	VAL
1	E	730	LEU
1	E	748	CYS
1	E	754	LYS
1	E	768	MET
1	E	772	ASP
1	E	776	LEU
1	E	778	THR
1	E	780	LEU
1	E	781	ARG
1	E	782	ASP
1	E	789	LEU
1	E	790	ASP
1	E	797	GLU
1	E	799	THR
1	E	817	GLN
1	E	819	GLU
1	E	826	THR
1	E	828	ASP
1	E	830	LEU
1	E	832	ASP
1	E	835	LEU
1	E	843	GLN
1	E	848	THR
1	E	850	PHE
1	E	854	LYS
1	E	858	ILE
1	E	861	SER
1	E	866	ILE
1	E	867	THR

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Mol	Chain	Res	Type
1	E	874	SER
1	E	875	ASP
1	E	876	THR
1	E	881	ARG
1	E	884	LEU
1	E	893	GLU
1	E	894	ARG
1	E	898	LEU
1	E	902	PRO
1	E	903	GLN
1	E	916	ASP
1	E	917	ARG
1	E	920	LEU
1	E	931	PHE
1	E	932	PRO
1	E	938	ARG
1	E	941	THR
1	E	942	ARG
1	E	950	GLN
1	E	951	TRP
1	E	956	GLN
1	E	960	SER
1	E	961	ARG
1	E	962	TYR
1	E	970	THR
1	E	974	HIS
1	E	985	ASN
1	E	991	MET
1	E	1006	GLU
1	E	1013	ARG
1	E	1017	GLN
1	F	3	ILE
1	F	6	SER
1	F	13	ARG
1	F	38	ASN
1	F	40	GLU
1	F	43	ARG
1	F	45	ASP
1	F	52	ARG
1	F	67	GLU
1	F	72	SER
1	F	77	ASP

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Mol	Chain	Res	Type
1	F	80	GLU
1	F	85	VAL
1	F	90	TRP
1	F	101	THR
1	F	107	ILE
1	F	114	VAL
1	F	124	SER
1	F	126	THR
1	F	127	PHE
1	F	129	VAL
1	F	132	SER
1	F	136	GLU
1	F	166	ARG
1	F	170	GLU
1	F	173	LEU
1	F	182	ASN
1	F	184	LEU
1	F	189	LEU
1	F	193	ASP
1	F	198	GLU
1	F	202	MET
1	F	211	ASP
1	F	213	SER
1	F	219	THR
1	F	220	THR
1	F	230	ARG
1	F	231	PHE
1	F	232	ASN
1	F	236	SER
1	F	237	ARG
1	F	240	LEU
1	F	246	MET
1	F	247	CYS
1	F	251	ARG
1	F	255	ARG
1	F	262	GLN
1	F	265	THR
1	F	279	ILE
1	F	293	LEU
1	F	305	ILE
1	F	310	ARG
1	F	314	GLU

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Mol	Chain	Res	Type
1	F	324	GLU
1	F	333	ARG
1	F	336	ARG
1	F	376	ILE
1	F	385	ASN
1	F	394	ASN
1	F	402	CYS
1	F	424	ASN
1	F	425	ARG
1	F	442	ARG
1	F	443	MET
1	F	448	ARG
1	F	461	GLU
1	F	462	SER
1	F	473	ARG
1	F	477	SER
1	F	481	SER
1	F	515	VAL
1	F	519	SER
1	F	523	TRP
1	F	529	GLU
1	F	533	LEU
1	F	538	TYR
1	F	545	SER
1	F	546	LEU
1	F	551	LYS
1	F	571	VAL
1	F	600	GLN
1	F	614	HIS
1	F	630	ARG
1	F	634	GLN
1	F	651	LEU
1	F	655	MET
1	F	658	LEU
1	F	661	LYS
1	F	665	SER
1	F	672	VAL
1	F	674	PRO
1	F	689	GLU
1	F	690	SER
1	F	719	GLN
1	F	721	ARG

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Mol	Chain	Res	Type
1	F	726	LEU
1	F	727	SER
1	F	730	LEU
1	F	743	SER
1	F	745	MET
1	F	748	CYS
1	F	749	ILE
1	F	751	LEU
1	F	768	MET
1	F	770	ILE
1	F	772	ASP
1	F	774	LYS
1	F	777	LEU
1	F	778	THR
1	F	781	ARG
1	F	782	ASP
1	F	790	ASP
1	F	796	SER
1	F	807	VAL
1	F	817	GLN
1	F	822	LEU
1	F	824	GLN
1	F	826	THR
1	F	828	ASP
1	F	832	ASP
1	F	850	PHE
1	F	858	ILE
1	F	859	ASP
1	F	866	ILE
1	F	867	THR
1	F	874	SER
1	F	876	THR
1	F	881	ARG
1	F	893	GLU
1	F	894	ARG
1	F	920	LEU
1	F	923	SER
1	F	938	ARG
1	F	956	GLN
1	F	968	MET
1	F	980	GLU
1	F	1006	GLU

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Mol	Chain	Res	Type
1	F	1021	CYS
1	G	3	ILE
1	G	13	ARG
1	G	14	ARG
1	G	22	THR
1	G	24	LEU
1	G	39	SER
1	G	43	ARG
1	G	49	GLN
1	G	52	ARG
1	G	53	SER
1	G	54	LEU
1	G	67	GLU
1	G	71	GLU
1	G	72	SER
1	G	77	ASP
1	G	80	GLU
1	G	90	TRP
1	G	101	THR
1	G	102	ASN
1	G	107	ILE
1	G	124	SER
1	G	128	ASN
1	G	129	VAL
1	G	131	GLU
1	G	134	LEU
1	G	136	GLU
1	G	138	GLN
1	G	148	SER
1	G	152	LEU
1	G	165	SER
1	G	166	ARG
1	G	176	PHE
1	G	187	MET
1	G	190	ARG
1	G	204	ARG
1	G	211	ASP
1	G	213	SER
1	G	219	THR
1	G	230	ARG
1	G	236	SER
1	G	237	ARG

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Mol	Chain	Res	Type
1	G	243	GLU
1	G	246	MET
1	G	247	CYS
1	G	249	GLU
1	G	255	ARG
1	G	256	VAL
1	G	262	GLN
1	G	265	THR
1	G	267	VAL
1	G	277	GLU
1	G	279	ILE
1	G	297	ASN
1	G	308	LEU
1	G	310	ARG
1	G	314	GLU
1	G	324	GLU
1	G	329	ASP
1	G	333	ARG
1	G	336	ARG
1	G	365	GLN
1	G	373	VAL
1	G	402	CYS
1	G	423	MET
1	G	424	ASN
1	G	433	LEU
1	G	437	SER
1	G	448	ARG
1	G	458	LEU
1	G	461	GLU
1	G	473	ARG
1	G	475	ILE
1	G	515	VAL
1	G	519	SER
1	G	522	LYS
1	G	533	LEU
1	G	534	ILE
1	G	538	TYR
1	G	545	SER
1	G	546	LEU
1	G	551	LYS
1	G	554	GLN
1	G	571	VAL

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Mol	Chain	Res	Type
1	G	576	ILE
1	G	588	TYR
1	G	599	ARG
1	G	600	GLN
1	G	614	HIS
1	G	630	ARG
1	G	632	SER
1	G	634	GLN
1	G	635	THR
1	G	647	SER
1	G	651	LEU
1	G	658	LEU
1	G	661	LYS
1	G	665	SER
1	G	672	VAL
1	G	680	ILE
1	G	687	GLN
1	G	689	GLU
1	G	690	SER
1	G	699	ARG
1	G	719	GLN
1	G	720	TRP
1	G	730	LEU
1	G	737	ILE
1	G	743	SER
1	G	745	MET
1	G	748	CYS
1	G	750	GLU
1	G	753	ASN
1	G	761	GLN
1	G	768	MET
1	G	772	ASP
1	G	779	PRO
1	G	781	ARG
1	G	796	SER
1	G	809	ARG
1	G	819	GLU
1	G	823	LEU
1	G	824	GLN
1	G	826	THR
1	G	829	THR
1	G	832	ASP

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Mol	Chain	Res	Type
1	G	840	HIS
1	G	850	PHE
1	G	854	LYS
1	G	856	TYR
1	G	857	ARG
1	G	858	ILE
1	G	866	ILE
1	G	868	VAL
1	G	869	ASP
1	G	876	THR
1	G	881	ARG
1	G	896	ASN
1	G	903	GLN
1	G	906	TYR
1	G	910	LEU
1	G	916	ASP
1	G	931	PHE
1	G	937	LEU
1	G	938	ARG
1	G	942	ARG
1	G	951	TRP
1	G	956	GLN
1	G	970	THR
1	G	984	LEU
1	G	991	MET
1	G	997	ASP
1	G	1002	SER
1	G	1006	GLU
1	G	1017	GLN
1	G	1018	LEU
1	G	1021	CYS
1	H	3	ILE
1	H	5	ASP
1	H	6	SER
1	H	13	ARG
1	H	14	ARG
1	H	22	THR
1	H	23	GLN
1	H	24	LEU
1	H	25	ASN
1	H	35	SER
1	H	39	SER

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Mol	Chain	Res	Type
1	H	40	GLU
1	H	49	GLN
1	H	52	ARG
1	H	67	GLU
1	H	71	GLU
1	H	72	SER
1	H	77	ASP
1	H	80	GLU
1	H	90	TRP
1	H	102	ASN
1	H	104	THR
1	H	114	VAL
1	H	123	TYR
1	H	127	PHE
1	H	131	GLU
1	H	134	LEU
1	H	136	GLU
1	H	138	GLN
1	H	139	THR
1	H	148	SER
1	H	150	PHE
1	H	165	SER
1	H	166	ARG
1	H	170	GLU
1	H	171	PHE
1	H	176	PHE
1	H	177	LEU
1	H	186	VAL
1	H	187	MET
1	H	190	ARG
1	H	192	SER
1	H	193	ASP
1	H	206	SER
1	H	211	ASP
1	H	212	VAL
1	H	213	SER
1	H	215	LEU
1	H	219	THR
1	H	221	GLN
1	H	227	VAL
1	H	229	THR
1	H	230	ARG

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Mol	Chain	Res	Type
1	H	237	ARG
1	H	240	LEU
1	H	246	MET
1	H	247	CYS
1	H	253	TYR
1	H	255	ARG
1	H	257	THR
1	H	259	SER
1	H	265	THR
1	H	277	GLU
1	H	279	ILE
1	H	305	ILE
1	H	310	ARG
1	H	312	VAL
1	H	314	GLU
1	H	319	ASP
1	H	321	THR
1	H	322	LEU
1	H	333	ARG
1	H	343	LEU
1	H	344	LEU
1	H	377	LEU
1	H	385	ASN
1	H	394	ASN
1	H	404	ARG
1	H	417	THR
1	H	424	ASN
1	H	425	ARG
1	H	433	LEU
1	H	438	GLU
1	H	439	ARG
1	H	448	ARG
1	H	461	GLU
1	H	462	SER
1	H	473	ARG
1	H	475	ILE
1	H	476	LYS
1	H	477	SER
1	H	499	ILE
1	H	502	MET
1	H	510	GLN
1	H	515	VAL

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Mol	Chain	Res	Type
1	H	522	LYS
1	H	523	TRP
1	H	533	LEU
1	H	545	SER
1	H	549	PHE
1	H	559	TYR
1	H	571	VAL
1	H	581	ASN
1	H	591	ASP
1	H	599	ARG
1	H	600	GLN
1	H	604	ASN
1	H	610	ASP
1	H	614	HIS
1	H	623	GLN
1	H	630	ARG
1	H	632	SER
1	H	634	GLN
1	H	635	THR
1	H	637	GLU
1	H	645	ARG
1	H	651	LEU
1	H	652	LEU
1	H	655	MET
1	H	658	LEU
1	H	661	LYS
1	H	663	LEU
1	H	668	VAL
1	H	672	VAL
1	H	686	PRO
1	H	689	GLU
1	H	690	SER
1	H	699	ARG
1	H	704	ASN
1	H	724	GLU
1	H	735	HIS
1	H	737	ILE
1	H	748	CYS
1	H	749	ILE
1	H	751	LEU
1	H	761	GLN
1	H	766	SER

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Mol	Chain	Res	Type
1	H	768	MET
1	H	773	LYS
1	H	777	LEU
1	H	779	PRO
1	H	781	ARG
1	H	790	ASP
1	H	796	SER
1	H	799	THR
1	H	807	VAL
1	H	817	GLN
1	H	819	GLU
1	H	822	LEU
1	H	823	LEU
1	H	843	GLN
1	H	848	THR
1	H	850	PHE
1	H	854	LYS
1	H	856	TYR
1	H	857	ARG
1	H	858	ILE
1	H	866	ILE
1	H	875	ASP
1	H	884	LEU
1	H	893	GLU
1	H	916	ASP
1	H	917	ARG
1	H	931	PHE
1	H	937	LEU
1	H	938	ARG
1	H	951	TRP
1	H	956	GLN
1	H	961	ARG
1	H	965	GLN
1	H	966	GLN
1	H	970	THR
1	H	972	HIS
1	H	986	ILE
1	H	991	MET
1	H	1002	SER
1	H	1006	GLU
1	H	1018	LEU
1	H	1019	VAL

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Mol	Chain	Res	Type
1	H	1021	CYS
1	I	3	ILE
1	I	6	SER
1	I	13	ARG
1	I	24	LEU
1	I	37	ARG
1	I	46	ARG
1	I	48	SER
1	I	49	GLN
1	I	51	LEU
1	I	52	ARG
1	I	57	GLU
1	I	67	GLU
1	I	71	GLU
1	I	72	SER
1	I	75	GLU
1	I	76	CYS
1	I	80	GLU
1	I	90	TRP
1	I	101	THR
1	I	102	ASN
1	I	104	THR
1	I	107	ILE
1	I	109	VAL
1	I	116	THR
1	I	122	CYS
1	I	123	TYR
1	I	124	SER
1	I	125	LEU
1	I	131	GLU
1	I	132	SER
1	I	140	ARG
1	I	142	ILE
1	I	165	SER
1	I	166	ARG
1	I	176	PHE
1	I	177	LEU
1	I	178	ARG
1	I	189	LEU
1	I	190	ARG
1	I	204	ARG
1	I	211	ASP

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Mol	Chain	Res	Type
1	I	213	SER
1	I	219	THR
1	I	230	ARG
1	I	236	SER
1	I	237	ARG
1	I	246	MET
1	I	247	CYS
1	I	250	LEU
1	I	253	TYR
1	I	255	ARG
1	I	262	GLN
1	I	266	GLN
1	I	267	VAL
1	I	271	THR
1	I	279	ILE
1	I	289	VAL
1	I	293	LEU
1	I	296	GLU
1	I	300	LEU
1	I	310	ARG
1	I	312	VAL
1	I	314	GLU
1	I	328	CYS
1	I	333	ARG
1	I	387	VAL
1	I	394	ASN
1	I	395	HIS
1	I	404	ARG
1	I	425	ARG
1	I	431	ARG
1	I	433	LEU
1	I	437	SER
1	I	448	ARG
1	I	461	GLU
1	I	473	ARG
1	I	475	ILE
1	I	502	MET
1	I	515	VAL
1	I	517	LYS
1	I	519	SER
1	I	533	LEU
1	I	535	LEU

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Mol	Chain	Res	Type
1	I	538	TYR
1	I	545	SER
1	I	546	LEU
1	I	551	LYS
1	I	554	GLN
1	I	576	ILE
1	I	577	LYS
1	I	580	GLU
1	I	599	ARG
1	I	600	GLN
1	I	614	HIS
1	I	630	ARG
1	I	632	SER
1	I	634	GLN
1	I	636	ILE
1	I	651	LEU
1	I	661	LYS
1	I	665	SER
1	I	668	VAL
1	I	689	GLU
1	I	690	SER
1	I	699	ARG
1	I	710	GLU
1	I	714	ILE
1	I	719	GLN
1	I	737	ILE
1	I	740	LEU
1	I	745	MET
1	I	748	CYS
1	I	751	LEU
1	I	753	ASN
1	I	754	LYS
1	I	768	MET
1	I	772	ASP
1	I	776	LEU
1	I	781	ARG
1	I	796	SER
1	I	799	THR
1	I	807	VAL
1	I	822	LEU
1	I	824	GLN
1	I	832	ASP

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Mol	Chain	Res	Type
1	I	836	ILE
1	I	850	PHE
1	I	854	LYS
1	I	856	TYR
1	I	857	ARG
1	I	858	ILE
1	I	861	SER
1	I	866	ILE
1	I	869	ASP
1	I	874	SER
1	I	881	ARG
1	I	893	GLU
1	I	894	ARG
1	I	896	ASN
1	I	917	ARG
1	I	923	SER
1	I	938	ARG
1	I	945	ASN
1	I	950	GLN
1	I	956	GLN
1	I	962	TYR
1	I	966	GLN
1	I	968	MET
1	I	973	ARG
1	I	984	LEU
1	I	991	MET
1	I	993	ILE
1	I	1000	SER
1	I	1003	VAL
1	I	1006	GLU
1	I	1013	ARG
1	I	1021	CYS
1	J	3	ILE
1	J	24	LEU
1	J	48	SER
1	J	49	GLN
1	J	52	ARG
1	J	67	GLU
1	J	71	GLU
1	J	77	ASP
1	J	101	THR
1	J	102	ASN

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Mol	Chain	Res	Type
1	J	108	THR
1	J	124	SER
1	J	128	ASN
1	J	129	VAL
1	J	131	GLU
1	J	165	SER
1	J	166	ARG
1	J	170	GLU
1	J	176	PHE
1	J	177	LEU
1	J	178	ARG
1	J	190	ARG
1	J	202	MET
1	J	211	ASP
1	J	219	THR
1	J	220	THR
1	J	221	GLN
1	J	234	ASP
1	J	246	MET
1	J	247	CYS
1	J	255	ARG
1	J	259	SER
1	J	277	GLU
1	J	279	ILE
1	J	310	ARG
1	J	314	GLU
1	J	321	THR
1	J	324	GLU
1	J	333	ARG
1	J	347	LYS
1	J	349	LEU
1	J	355	ASN
1	J	373	VAL
1	J	380	LYS
1	J	394	ASN
1	J	404	ARG
1	J	424	ASN
1	J	425	ARG
1	J	433	LEU
1	J	446	ARG
1	J	448	ARG
1	J	461	GLU

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Mol	Chain	Res	Type
1	J	467	ASN
1	J	502	MET
1	J	515	VAL
1	J	519	SER
1	J	522	LYS
1	J	545	SER
1	J	546	LEU
1	J	571	VAL
1	J	576	ILE
1	J	580	GLU
1	J	599	ARG
1	J	600	GLN
1	J	614	HIS
1	J	629	PHE
1	J	635	THR
1	J	636	ILE
1	J	645	ARG
1	J	658	LEU
1	J	661	LYS
1	J	665	SER
1	J	670	LEU
1	J	672	VAL
1	J	680	ILE
1	J	689	GLU
1	J	690	SER
1	J	694	LEU
1	J	698	VAL
1	J	699	ARG
1	J	724	GLU
1	J	728	VAL
1	J	729	THR
1	J	745	MET
1	J	748	CYS
1	J	749	ILE
1	J	750	GLU
1	J	762	SER
1	J	772	ASP
1	J	776	LEU
1	J	781	ARG
1	J	796	SER
1	J	832	ASP
1	J	836	ILE

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Mol	Chain	Res	Type
1	J	837	THR
1	J	838	THR
1	J	850	PHE
1	J	854	LYS
1	J	855	THR
1	J	857	ARG
1	J	858	ILE
1	J	861	SER
1	J	872	VAL
1	J	881	ARG
1	J	885	ASN
1	J	925	MET
1	J	934	GLU
1	J	938	ARG
1	J	941	THR
1	J	950	GLN
1	J	951	TRP
1	J	956	GLN
1	J	961	ARG
1	J	986	ILE
1	J	991	MET
1	J	997	ASP
1	J	1006	GLU
1	J	1023	LYS
1	K	3	ILE
1	K	6	SER
1	K	13	ARG
1	K	14	ARG
1	K	21	VAL
1	K	24	LEU
1	K	26	ARG
1	K	37	ARG
1	K	39	SER
1	K	43	ARG
1	K	48	SER
1	K	49	GLN
1	K	53	SER
1	K	67	GLU
1	K	72	SER
1	K	77	ASP
1	K	80	GLU
1	K	90	TRP

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Mol	Chain	Res	Type
1	K	101	THR
1	K	102	ASN
1	K	104	THR
1	K	107	ILE
1	K	108	THR
1	K	123	TYR
1	K	124	SER
1	K	126	THR
1	K	129	VAL
1	K	131	GLU
1	K	135	GLN
1	K	136	GLU
1	K	138	GLN
1	K	141	ILE
1	K	148	SER
1	K	165	SER
1	K	166	ARG
1	K	176	PHE
1	K	187	MET
1	K	190	ARG
1	K	210	ARG
1	K	211	ASP
1	K	213	SER
1	K	232	ASN
1	K	236	SER
1	K	241	GLU
1	K	246	MET
1	K	247	CYS
1	K	250	LEU
1	K	252	ASP
1	K	255	ARG
1	K	259	SER
1	K	265	THR
1	K	267	VAL
1	K	269	SER
1	K	277	GLU
1	K	280	ASP
1	K	287	ASP
1	K	289	VAL
1	K	292	ARG
1	K	293	LEU
1	K	310	ARG

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Mol	Chain	Res	Type
1	K	312	VAL
1	K	314	GLU
1	K	324	GLU
1	K	333	ARG
1	K	336	ARG
1	K	343	LEU
1	K	373	VAL
1	K	387	VAL
1	K	397	LEU
1	K	418	HIS
1	K	424	ASN
1	K	433	LEU
1	K	448	ARG
1	K	455	ILE
1	K	461	GLU
1	K	473	ARG
1	K	475	ILE
1	K	481	SER
1	K	517	LYS
1	K	533	LEU
1	K	535	LEU
1	K	538	TYR
1	K	545	SER
1	K	546	LEU
1	K	551	LYS
1	K	554	GLN
1	K	571	VAL
1	K	576	ILE
1	K	581	ASN
1	K	588	TYR
1	K	594	ASP
1	K	600	GLN
1	K	604	ASN
1	K	632	SER
1	K	645	ARG
1	K	651	LEU
1	K	658	LEU
1	K	668	VAL
1	K	672	VAL
1	K	675	GLN
1	K	684	GLU
1	K	689	GLU

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Mol	Chain	Res	Type
1	K	690	SER
1	K	699	ARG
1	K	704	ASN
1	K	719	GLN
1	K	720	TRP
1	K	726	LEU
1	K	728	VAL
1	K	737	ILE
1	K	751	LEU
1	K	768	MET
1	K	772	ASP
1	K	775	GLN
1	K	781	ARG
1	K	799	THR
1	K	800	ARG
1	K	801	ILE
1	K	804	ASN
1	K	817	GLN
1	K	819	GLU
1	K	822	LEU
1	K	824	GLN
1	K	832	ASP
1	K	836	ILE
1	K	840	HIS
1	K	843	GLN
1	K	848	THR
1	K	850	PHE
1	K	854	LYS
1	K	856	TYR
1	K	858	ILE
1	K	861	SER
1	K	866	ILE
1	K	869	ASP
1	K	874	SER
1	K	878	HIS
1	K	881	ARG
1	K	884	LEU
1	K	885	ASN
1	K	900	LEU
1	K	916	ASP
1	K	934	GLU
1	K	938	ARG

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Mol	Chain	Res	Type
1	K	956	GLN
1	K	961	ARG
1	K	970	THR
1	K	991	MET
1	K	1006	GLU
1	K	1018	LEU
1	K	1021	CYS
1	L	3	ILE
1	L	6	SER
1	L	11	LEU
1	L	14	ARG
1	L	23	GLN
1	L	24	LEU
1	L	25	ASN
1	L	38	ASN
1	L	39	SER
1	L	44	THR
1	L	49	GLN
1	L	52	ARG
1	L	59	ARG
1	L	62	TRP
1	L	67	GLU
1	L	71	GLU
1	L	77	ASP
1	L	90	TRP
1	L	101	THR
1	L	107	ILE
1	L	108	THR
1	L	114	VAL
1	L	116	THR
1	L	122	CYS
1	L	123	TYR
1	L	124	SER
1	L	125	LEU
1	L	128	ASN
1	L	129	VAL
1	L	131	GLU
1	L	134	LEU
1	L	136	GLU
1	L	138	GLN
1	L	141	ILE
1	L	165	SER

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Mol	Chain	Res	Type
1	L	166	ARG
1	L	177	LEU
1	L	184	LEU
1	L	186	VAL
1	L	190	ARG
1	L	192	SER
1	L	202	MET
1	L	211	ASP
1	L	213	SER
1	L	217	LYS
1	L	219	THR
1	L	221	GLN
1	L	223	SER
1	L	227	VAL
1	L	230	ARG
1	L	232	ASN
1	L	239	VAL
1	L	240	LEU
1	L	246	MET
1	L	247	CYS
1	L	255	ARG
1	L	259	SER
1	L	264	GLU
1	L	277	GLU
1	L	278	ILE
1	L	279	ILE
1	L	282	ARG
1	L	302	SER
1	L	328	CYS
1	L	333	ARG
1	L	343	LEU
1	L	344	LEU
1	L	345	ASN
1	L	349	LEU
1	L	372	MET
1	L	385	ASN
1	L	387	VAL
1	L	392	TYR
1	L	394	ASN
1	L	424	ASN
1	L	426	LEU
1	L	433	LEU

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Mol	Chain	Res	Type
1	L	448	ARG
1	L	461	GLU
1	L	467	ASN
1	L	473	ARG
1	L	482	ARG
1	L	499	ILE
1	L	502	MET
1	L	515	VAL
1	L	522	LYS
1	L	529	GLU
1	L	533	LEU
1	L	536	CYS
1	L	538	TYR
1	L	542	MET
1	L	551	LYS
1	L	571	VAL
1	L	580	GLU
1	L	583	ASN
1	L	594	ASP
1	L	600	GLN
1	L	603	MET
1	L	604	ASN
1	L	611	ARG
1	L	629	PHE
1	L	630	ARG
1	L	632	SER
1	L	635	THR
1	L	636	ILE
1	L	658	LEU
1	L	661	LYS
1	L	672	VAL
1	L	689	GLU
1	L	699	ARG
1	L	710	GLU
1	L	719	GLN
1	L	730	LEU
1	L	737	ILE
1	L	743	SER
1	L	745	MET
1	L	751	LEU
1	L	760	ARG
1	L	768	MET

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Mol	Chain	Res	Type
1	L	772	ASP
1	L	774	LYS
1	L	777	LEU
1	L	780	LEU
1	L	781	ARG
1	L	789	LEU
1	L	796	SER
1	L	799	THR
1	L	801	ILE
1	L	808	GLU
1	L	817	GLN
1	L	819	GLU
1	L	823	LEU
1	L	824	GLN
1	L	829	THR
1	L	830	LEU
1	L	832	ASP
1	L	840	HIS
1	L	847	LYS
1	L	850	PHE
1	L	854	LYS
1	L	856	TYR
1	L	858	ILE
1	L	866	ILE
1	L	881	ARG
1	L	896	ASN
1	L	921	PRO
1	L	923	SER
1	L	925	MET
1	L	927	THR
1	L	931	PHE
1	L	934	GLU
1	L	937	LEU
1	L	938	ARG
1	L	941	THR
1	L	950	GLN
1	L	951	TRP
1	L	956	GLN
1	L	959	ILE
1	L	970	THR
1	L	973	ARG
1	L	974	HIS

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Mol	Chain	Res	Type
1	L	980	GLU
1	L	984	LEU
1	L	987	ASP
1	L	991	MET
1	L	997	ASP
1	L	1006	GLU
1	L	1016	TYR
1	L	1018	LEU
1	M	3	ILE
1	M	4	THR
1	M	5	ASP
1	M	6	SER
1	M	7	LEU
1	M	10	VAL
1	M	11	LEU
1	M	14	ARG
1	M	22	THR
1	M	23	GLN
1	M	25	ASN
1	M	26	ARG
1	M	39	SER
1	M	43	ARG
1	M	49	GLN
1	M	51	LEU
1	M	52	ARG
1	M	67	GLU
1	M	71	GLU
1	M	75	GLU
1	M	76	CYS
1	M	77	ASP
1	M	78	LEU
1	M	80	GLU
1	M	90	TRP
1	M	101	THR
1	M	102	ASN
1	M	104	THR
1	M	107	ILE
1	M	114	VAL
1	M	116	THR
1	M	124	SER
1	M	128	ASN
1	M	132	SER

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Mol	Chain	Res	Type
1	M	136	GLU
1	M	138	GLN
1	M	141	ILE
1	M	148	SER
1	M	165	SER
1	M	166	ARG
1	M	176	PHE
1	M	181	GLU
1	M	189	LEU
1	M	190	ARG
1	M	193	ASP
1	M	197	LEU
1	M	202	MET
1	M	211	ASP
1	M	212	VAL
1	M	213	SER
1	M	217	LYS
1	M	219	THR
1	M	221	GLN
1	M	230	ARG
1	M	232	ASN
1	M	236	SER
1	M	237	ARG
1	M	246	MET
1	M	247	CYS
1	M	252	ASP
1	M	255	ARG
1	M	259	SER
1	M	260	LEU
1	M	266	GLN
1	M	267	VAL
1	M	291	LEU
1	M	295	VAL
1	M	296	GLU
1	M	300	LEU
1	M	305	ILE
1	M	310	ARG
1	M	312	VAL
1	M	314	GLU
1	M	316	HIS
1	M	321	THR
1	M	322	LEU

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Mol	Chain	Res	Type
1	M	323	ILE
1	M	333	ARG
1	M	351	ILE
1	M	355	ASN
1	M	356	ARG
1	M	369	GLU
1	M	377	LEU
1	M	381	GLN
1	M	387	VAL
1	M	391	HIS
1	M	397	LEU
1	M	407	LEU
1	M	411	ASP
1	M	416	GLU
1	M	417	THR
1	M	424	ASN
1	M	425	ARG
1	M	426	LEU
1	M	428	ASP
1	M	430	PRO
1	M	433	LEU
1	M	437	SER
1	M	439	ARG
1	M	441	THR
1	M	448	ARG
1	M	461	GLU
1	M	471	LEU
1	M	473	ARG
1	M	477	SER
1	M	481	SER
1	M	485	GLN
1	M	515	VAL
1	M	523	TRP
1	M	525	SER
1	M	530	THR
1	M	533	LEU
1	M	538	TYR
1	M	545	SER
1	M	546	LEU
1	M	554	GLN
1	M	567	VAL
1	M	571	VAL

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Mol	Chain	Res	Type
1	M	575	LEU
1	M	581	ASN
1	M	583	ASN
1	M	594	ASP
1	M	600	GLN
1	M	607	VAL
1	M	614	HIS
1	M	623	GLN
1	M	629	PHE
1	M	630	ARG
1	M	632	SER
1	M	634	GLN
1	M	645	ARG
1	M	651	LEU
1	M	655	MET
1	M	658	LEU
1	M	663	LEU
1	M	672	VAL
1	M	679	LEU
1	M	680	ILE
1	M	690	SER
1	M	699	ARG
1	M	701	VAL
1	M	704	ASN
1	M	710	GLU
1	M	714	ILE
1	M	719	GLN
1	M	727	SER
1	M	743	SER
1	M	745	MET
1	M	748	CYS
1	M	749	ILE
1	M	755	ARG
1	M	767	GLN
1	M	768	MET
1	M	778	THR
1	M	781	ARG
1	M	789	LEU
1	M	791	ASN
1	M	793	ILE
1	M	796	SER
1	M	801	ILE

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Mol	Chain	Res	Type
1	M	807	VAL
1	M	817	GLN
1	M	819	GLU
1	M	822	LEU
1	M	824	GLN
1	M	828	ASP
1	M	832	ASP
1	M	836	ILE
1	M	837	THR
1	M	840	HIS
1	M	845	GLN
1	M	848	THR
1	M	854	LYS
1	M	857	ARG
1	M	858	ILE
1	M	867	THR
1	M	874	SER
1	M	881	ARG
1	M	893	GLU
1	M	897	TRP
1	M	916	ASP
1	M	917	ARG
1	M	923	SER
1	M	925	MET
1	M	930	VAL
1	M	938	ARG
1	M	941	THR
1	M	958	ASN
1	M	966	GLN
1	M	968	MET
1	M	980	GLU
1	M	986	ILE
1	M	991	MET
1	M	999	TRP
1	M	1006	GLU
1	M	1017	GLN
1	N	3	ILE
1	N	6	SER
1	N	7	LEU
1	N	24	LEU
1	N	26	ARG
1	N	48	SER

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Mol	Chain	Res	Type
1	N	49	GLN
1	N	52	ARG
1	N	67	GLU
1	N	71	GLU
1	N	72	SER
1	N	77	ASP
1	N	80	GLU
1	N	82	ASP
1	N	89	ASN
1	N	90	TRP
1	N	101	THR
1	N	102	ASN
1	N	114	VAL
1	N	124	SER
1	N	125	LEU
1	N	129	VAL
1	N	131	GLU
1	N	132	SER
1	N	134	LEU
1	N	140	ARG
1	N	148	SER
1	N	165	SER
1	N	166	ARG
1	N	167	LEU
1	N	176	PHE
1	N	186	VAL
1	N	190	ARG
1	N	202	MET
1	N	204	ARG
1	N	210	ARG
1	N	211	ASP
1	N	213	SER
1	N	214	LEU
1	N	220	THR
1	N	221	GLN
1	N	230	ARG
1	N	232	ASN
1	N	237	ARG
1	N	246	MET
1	N	247	CYS
1	N	249	GLU
1	N	250	LEU

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Mol	Chain	Res	Type
1	N	255	ARG
1	N	269	SER
1	N	278	ILE
1	N	279	ILE
1	N	301	TRP
1	N	305	ILE
1	N	310	ARG
1	N	314	GLU
1	N	333	ARG
1	N	336	ARG
1	N	355	ASN
1	N	358	GLU
1	N	418	HIS
1	N	424	ASN
1	N	425	ARG
1	N	433	LEU
1	N	437	SER
1	N	439	ARG
1	N	442	ARG
1	N	447	ASP
1	N	448	ARG
1	N	461	GLU
1	N	473	ARG
1	N	482	ARG
1	N	533	LEU
1	N	545	SER
1	N	546	LEU
1	N	551	LYS
1	N	569	ASP
1	N	574	SER
1	N	584	PRO
1	N	591	ASP
1	N	594	ASP
1	N	595	THR
1	N	599	ARG
1	N	600	GLN
1	N	604	ASN
1	N	612	THR
1	N	614	HIS
1	N	630	ARG
1	N	632	SER
1	N	634	GLN

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Mol	Chain	Res	Type
1	N	635	THR
1	N	651	LEU
1	N	655	MET
1	N	658	LEU
1	N	661	LYS
1	N	663	LEU
1	N	670	LEU
1	N	672	VAL
1	N	684	GLU
1	N	687	GLN
1	N	689	GLU
1	N	690	SER
1	N	699	ARG
1	N	701	VAL
1	N	704	ASN
1	N	709	SER
1	N	719	GLN
1	N	727	SER
1	N	728	VAL
1	N	730	LEU
1	N	734	SER
1	N	737	ILE
1	N	741	THR
1	N	743	SER
1	N	745	MET
1	N	748	CYS
1	N	749	ILE
1	N	761	GLN
1	N	765	LEU
1	N	766	SER
1	N	768	MET
1	N	772	ASP
1	N	775	GLN
1	N	778	THR
1	N	781	ARG
1	N	782	ASP
1	N	790	ASP
1	N	796	SER
1	N	799	THR
1	N	800	ARG
1	N	801	ILE
1	N	817	GLN

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Mol	Chain	Res	Type
1	N	822	LEU
1	N	832	ASP
1	N	850	PHE
1	N	861	SER
1	N	881	ARG
1	N	885	ASN
1	N	898	LEU
1	N	903	GLN
1	N	916	ASP
1	N	917	ARG
1	N	920	LEU
1	N	925	MET
1	N	931	PHE
1	N	937	LEU
1	N	938	ARG
1	N	950	GLN
1	N	956	GLN
1	N	964	GLN
1	N	969	GLU
1	N	980	GLU
1	N	984	LEU
1	N	986	ILE
1	N	1002	SER
1	N	1006	GLU
1	O	3	ILE
1	O	13	ARG
1	O	22	THR
1	O	24	LEU
1	O	36	TRP
1	O	39	SER
1	O	48	SER
1	O	50	GLN
1	O	51	LEU
1	O	52	ARG
1	O	67	GLU
1	O	71	GLU
1	O	72	SER
1	O	76	CYS
1	O	77	ASP
1	O	78	LEU
1	O	80	GLU
1	O	86	VAL

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Mol	Chain	Res	Type
1	O	90	TRP
1	O	101	THR
1	O	102	ASN
1	O	107	ILE
1	O	123	TYR
1	O	124	SER
1	O	128	ASN
1	O	129	VAL
1	O	131	GLU
1	O	132	SER
1	O	134	LEU
1	O	139	THR
1	O	141	ILE
1	O	165	SER
1	O	166	ARG
1	O	188	VAL
1	O	190	ARG
1	O	202	MET
1	O	211	ASP
1	O	213	SER
1	O	219	THR
1	O	232	ASN
1	O	236	SER
1	O	237	ARG
1	O	243	GLU
1	O	246	MET
1	O	247	CYS
1	O	249	GLU
1	O	250	LEU
1	O	259	SER
1	O	265	THR
1	O	269	SER
1	O	279	ILE
1	O	289	VAL
1	O	314	GLU
1	O	322	LEU
1	O	324	GLU
1	O	329	ASP
1	O	333	ARG
1	O	336	ARG
1	O	343	LEU
1	O	362	LEU

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Mol	Chain	Res	Type
1	O	369	GLU
1	O	373	VAL
1	O	385	ASN
1	O	394	ASN
1	O	423	MET
1	O	425	ARG
1	O	429	ASP
1	O	437	SER
1	O	448	ARG
1	O	473	ARG
1	O	476	LYS
1	O	477	SER
1	O	508	GLU
1	O	515	VAL
1	O	525	SER
1	O	529	GLU
1	O	533	LEU
1	O	535	LEU
1	O	538	TYR
1	O	545	SER
1	O	546	LEU
1	O	551	LYS
1	O	554	GLN
1	O	558	GLN
1	O	571	VAL
1	O	588	TYR
1	O	594	ASP
1	O	599	ARG
1	O	600	GLN
1	O	603	MET
1	O	632	SER
1	O	634	GLN
1	O	635	THR
1	O	651	LEU
1	O	661	LYS
1	O	665	SER
1	O	672	VAL
1	O	675	GLN
1	O	679	LEU
1	O	680	ILE
1	O	682	LEU
1	O	685	LEU

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Mol	Chain	Res	Type
1	O	687	GLN
1	O	689	GLU
1	O	690	SER
1	O	699	ARG
1	O	701	VAL
1	O	704	ASN
1	O	719	GLN
1	O	722	LEU
1	O	728	VAL
1	O	734	SER
1	O	737	ILE
1	O	743	SER
1	O	748	CYS
1	O	751	LEU
1	O	754	LYS
1	O	765	LEU
1	O	766	SER
1	O	768	MET
1	O	773	LYS
1	O	774	LYS
1	O	776	LEU
1	O	778	THR
1	O	781	ARG
1	O	796	SER
1	O	799	THR
1	O	801	ILE
1	O	819	GLU
1	O	822	LEU
1	O	824	GLN
1	O	828	ASP
1	O	829	THR
1	O	830	LEU
1	O	832	ASP
1	O	840	HIS
1	O	843	GLN
1	O	850	PHE
1	O	854	LYS
1	O	857	ARG
1	O	858	ILE
1	O	866	ILE
1	O	868	VAL
1	O	869	ASP

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Mol	Chain	Res	Type
1	O	872	VAL
1	O	874	SER
1	O	881	ARG
1	O	893	GLU
1	O	903	GLN
1	O	938	ARG
1	O	943	GLU
1	O	956	GLN
1	O	961	ARG
1	O	968	MET
1	O	970	THR
1	O	1006	GLU
1	O	1017	GLN
1	O	1018	LEU
1	P	3	ILE
1	P	6	SER
1	P	7	LEU
1	P	9	VAL
1	P	21	VAL
1	P	24	LEU
1	P	35	SER
1	P	37	ARG
1	P	48	SER
1	P	49	GLN
1	P	51	LEU
1	P	52	ARG
1	P	54	LEU
1	P	67	GLU
1	P	71	GLU
1	P	72	SER
1	P	77	ASP
1	P	80	GLU
1	P	90	TRP
1	P	91	GLN
1	P	92	MET
1	P	95	TYR
1	P	99	ILE
1	P	101	THR
1	P	102	ASN
1	P	107	ILE
1	P	108	THR
1	P	128	ASN

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Mol	Chain	Res	Type
1	P	129	VAL
1	P	131	GLU
1	P	134	LEU
1	P	135	GLN
1	P	138	GLN
1	P	141	ILE
1	P	142	ILE
1	P	147	ASN
1	P	152	LEU
1	P	165	SER
1	P	166	ARG
1	P	174	SER
1	P	176	PHE
1	P	190	ARG
1	P	192	SER
1	P	204	ARG
1	P	206	SER
1	P	211	ASP
1	P	213	SER
1	P	214	LEU
1	P	221	GLN
1	P	225	PHE
1	P	229	THR
1	P	231	PHE
1	P	236	SER
1	P	237	ARG
1	P	243	GLU
1	P	244	VAL
1	P	246	MET
1	P	247	CYS
1	P	250	LEU
1	P	255	ARG
1	P	262	GLN
1	P	265	THR
1	P	267	VAL
1	P	271	THR
1	P	281	GLU
1	P	282	ARG
1	P	287	ASP
1	P	293	LEU
1	P	297	ASN
1	P	302	SER

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Mol	Chain	Res	Type
1	P	310	ARG
1	P	312	VAL
1	P	319	ASP
1	P	330	VAL
1	P	333	ARG
1	P	343	LEU
1	P	347	LYS
1	P	356	ARG
1	P	374	GLN
1	P	379	MET
1	P	380	LYS
1	P	385	ASN
1	P	387	VAL
1	P	390	SER
1	P	397	LEU
1	P	399	TYR
1	P	407	LEU
1	P	418	HIS
1	P	420	MET
1	P	423	MET
1	P	427	THR
1	P	433	LEU
1	P	445	GLN
1	P	448	ARG
1	P	449	ASN
1	P	454	ILE
1	P	455	ILE
1	P	458	LEU
1	P	461	GLU
1	P	467	ASN
1	P	473	ARG
1	P	475	ILE
1	P	476	LYS
1	P	477	SER
1	P	494	THR
1	P	519	SER
1	P	521	LYS
1	P	523	TRP
1	P	525	SER
1	P	533	LEU
1	P	538	TYR
1	P	545	SER

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Mol	Chain	Res	Type
1	P	549	PHE
1	P	551	LYS
1	P	575	LEU
1	P	586	SER
1	P	594	ASP
1	P	600	GLN
1	P	603	MET
1	P	612	THR
1	P	618	THR
1	P	629	PHE
1	P	630	ARG
1	P	634	GLN
1	P	635	THR
1	P	639	THR
1	P	645	ARG
1	P	649	ASN
1	P	650	GLU
1	P	651	LEU
1	P	658	LEU
1	P	661	LYS
1	P	672	VAL
1	P	679	LEU
1	P	687	GLN
1	P	688	PRO
1	P	690	SER
1	P	696	LEU
1	P	699	ARG
1	P	704	ASN
1	P	713	HIS
1	P	726	LEU
1	P	727	SER
1	P	730	LEU
1	P	737	ILE
1	P	744	GLU
1	P	748	CYS
1	P	750	GLU
1	P	754	LYS
1	P	755	ARG
1	P	761	GLN
1	P	765	LEU
1	P	767	GLN
1	P	772	ASP

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Mol	Chain	Res	Type
1	P	773	LYS
1	P	776	LEU
1	P	781	ARG
1	P	799	THR
1	P	801	ILE
1	P	804	ASN
1	P	807	VAL
1	P	817	GLN
1	P	819	GLU
1	P	829	THR
1	P	830	LEU
1	P	835	LEU
1	P	838	THR
1	P	843	GLN
1	P	848	THR
1	P	849	LEU
1	P	850	PHE
1	P	854	LYS
1	P	856	TYR
1	P	858	ILE
1	P	866	ILE
1	P	868	VAL
1	P	869	ASP
1	P	874	SER
1	P	876	THR
1	P	878	HIS
1	P	881	ARG
1	P	890	GLN
1	P	893	GLU
1	P	903	GLN
1	P	905	ASN
1	P	910	LEU
1	P	911	THR
1	P	916	ASP
1	P	917	ARG
1	P	920	LEU
1	P	925	MET
1	P	931	PHE
1	P	935	ASN
1	P	941	THR
1	P	950	GLN
1	P	951	TRP

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Mol	Chain	Res	Type
1	P	956	GLN
1	P	966	GLN
1	P	968	MET
1	P	970	THR
1	P	973	ARG
1	P	985	ASN
1	P	986	ILE
1	P	991	MET
1	P	999	TRP
1	P	1006	GLU
1	P	1018	LEU
1	P	1021	CYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (370) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	25	ASN
1	A	38	ASN
1	A	89	ASN
1	A	93	HIS
1	A	102	ASN
1	A	135	GLN
1	A	226	HIS
1	A	262	GLN
1	A	357	HIS
1	A	359	HIS
1	A	394	ASN
1	A	414	ASN
1	A	485	GLN
1	A	510	GLN
1	A	597	ASN
1	A	604	ASN
1	A	622	HIS
1	A	628	GLN
1	A	761	GLN
1	A	817	GLN
1	A	949	HIS
1	A	977	HIS
1	A	990	HIS
1	B	25	ASN
1	B	38	ASN
1	B	50	GLN

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Mol	Chain	Res	Type
1	B	93	HIS
1	B	102	ASN
1	B	128	ASN
1	B	216	HIS
1	B	262	GLN
1	B	316	HIS
1	B	357	HIS
1	B	385	ASN
1	B	424	ASN
1	B	510	GLN
1	B	597	ASN
1	B	600	GLN
1	B	622	HIS
1	B	628	GLN
1	B	739	HIS
1	B	775	GLN
1	B	949	HIS
1	B	977	HIS
1	B	990	HIS
1	B	1008	GLN
1	B	1017	GLN
1	C	50	GLN
1	C	93	HIS
1	C	102	ASN
1	C	163	GLN
1	C	316	HIS
1	C	357	HIS
1	C	363	HIS
1	C	394	ASN
1	C	424	ASN
1	C	467	ASN
1	C	510	GLN
1	C	597	ASN
1	C	600	GLN
1	C	622	HIS
1	C	628	GLN
1	C	824	GLN
1	C	844	HIS
1	C	887	GLN
1	C	949	HIS
1	C	977	HIS
1	C	990	HIS

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Mol	Chain	Res	Type
1	C	1017	GLN
1	D	38	ASN
1	D	50	GLN
1	D	55	ASN
1	D	89	ASN
1	D	93	HIS
1	D	102	ASN
1	D	128	ASN
1	D	163	GLN
1	D	226	HIS
1	D	262	GLN
1	D	316	HIS
1	D	357	HIS
1	D	394	ASN
1	D	445	GLN
1	D	583	ASN
1	D	597	ASN
1	D	604	ASN
1	D	622	HIS
1	D	653	HIS
1	D	775	GLN
1	D	824	GLN
1	D	844	HIS
1	D	890	GLN
1	D	949	HIS
1	D	977	HIS
1	E	93	HIS
1	E	102	ASN
1	E	128	ASN
1	E	226	HIS
1	E	357	HIS
1	E	381	GLN
1	E	383	ASN
1	E	385	ASN
1	E	394	ASN
1	E	414	ASN
1	E	424	ASN
1	E	445	GLN
1	E	583	ASN
1	E	597	ASN
1	E	614	HIS
1	E	622	HIS

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Mol	Chain	Res	Type
1	E	704	ASN
1	E	761	GLN
1	E	844	HIS
1	E	949	HIS
1	E	977	HIS
1	E	990	HIS
1	F	38	ASN
1	F	93	HIS
1	F	102	ASN
1	F	163	GLN
1	F	226	HIS
1	F	262	GLN
1	F	266	GLN
1	F	316	HIS
1	F	357	HIS
1	F	394	ASN
1	F	424	ASN
1	F	460	ASN
1	F	597	ASN
1	F	622	HIS
1	F	887	GLN
1	F	949	HIS
1	F	977	HIS
1	F	990	HIS
1	F	1017	GLN
1	F	1022	GLN
1	G	93	HIS
1	G	102	ASN
1	G	128	ASN
1	G	135	GLN
1	G	226	HIS
1	G	262	GLN
1	G	316	HIS
1	G	357	HIS
1	G	394	ASN
1	G	414	ASN
1	G	424	ASN
1	G	460	ASN
1	G	467	ASN
1	G	510	GLN
1	G	581	ASN
1	G	597	ASN

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Mol	Chain	Res	Type
1	G	624	GLN
1	G	628	GLN
1	G	739	HIS
1	G	949	HIS
1	G	977	HIS
1	G	990	HIS
1	H	50	GLN
1	H	93	HIS
1	H	102	ASN
1	H	110	ASN
1	H	128	ASN
1	H	135	GLN
1	H	163	GLN
1	H	221	GLN
1	H	226	HIS
1	H	262	GLN
1	H	357	HIS
1	H	394	ASN
1	H	418	HIS
1	H	424	ASN
1	H	460	ASN
1	H	467	ASN
1	H	554	GLN
1	H	597	ASN
1	H	614	HIS
1	H	622	HIS
1	H	628	GLN
1	H	634	GLN
1	H	761	GLN
1	H	775	GLN
1	H	783	GLN
1	H	949	HIS
1	H	985	ASN
1	H	1008	GLN
1	H	1022	GLN
1	I	38	ASN
1	I	89	ASN
1	I	93	HIS
1	I	102	ASN
1	I	163	GLN
1	I	226	HIS
1	I	262	GLN

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Mol	Chain	Res	Type
1	I	266	GLN
1	I	297	ASN
1	I	357	HIS
1	I	383	ASN
1	I	394	ASN
1	I	597	ASN
1	I	622	HIS
1	I	623	GLN
1	I	624	GLN
1	I	718	GLN
1	I	817	GLN
1	I	824	GLN
1	I	949	HIS
1	I	950	GLN
1	I	990	HIS
1	I	1017	GLN
1	J	93	HIS
1	J	102	ASN
1	J	226	HIS
1	J	262	GLN
1	J	355	ASN
1	J	357	HIS
1	J	394	ASN
1	J	467	ASN
1	J	510	GLN
1	J	583	ASN
1	J	597	ASN
1	J	624	GLN
1	J	977	HIS
1	J	990	HIS
1	J	1017	GLN
1	K	38	ASN
1	K	50	GLN
1	K	102	ASN
1	K	221	GLN
1	K	226	HIS
1	K	262	GLN
1	K	316	HIS
1	K	357	HIS
1	K	460	ASN
1	K	581	ASN
1	K	583	ASN

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Mol	Chain	Res	Type
1	K	597	ASN
1	K	600	GLN
1	K	604	ASN
1	K	614	HIS
1	K	775	GLN
1	K	843	GLN
1	K	885	ASN
1	K	949	HIS
1	K	974	HIS
1	K	977	HIS
1	K	990	HIS
1	L	89	ASN
1	L	102	ASN
1	L	128	ASN
1	L	226	HIS
1	L	262	GLN
1	L	357	HIS
1	L	363	HIS
1	L	385	ASN
1	L	394	ASN
1	L	414	ASN
1	L	424	ASN
1	L	467	ASN
1	L	583	ASN
1	L	624	GLN
1	L	704	ASN
1	L	761	GLN
1	L	783	GLN
1	L	815	HIS
1	L	949	HIS
1	L	977	HIS
1	L	990	HIS
1	L	1022	GLN
1	M	23	GLN
1	M	38	ASN
1	M	50	GLN
1	M	102	ASN
1	M	128	ASN
1	M	135	GLN
1	M	163	GLN
1	M	200	GLN
1	M	226	HIS

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Mol	Chain	Res	Type
1	M	262	GLN
1	M	355	ASN
1	M	357	HIS
1	M	385	ASN
1	M	394	ASN
1	M	414	ASN
1	M	424	ASN
1	M	467	ASN
1	M	485	GLN
1	M	573	GLN
1	M	581	ASN
1	M	583	ASN
1	M	597	ASN
1	M	604	ASN
1	M	614	HIS
1	M	622	HIS
1	M	653	HIS
1	M	702	GLN
1	M	704	ASN
1	M	761	GLN
1	M	791	ASN
1	M	815	HIS
1	M	949	HIS
1	M	977	HIS
1	M	990	HIS
1	N	93	HIS
1	N	102	ASN
1	N	262	GLN
1	N	266	GLN
1	N	355	ASN
1	N	357	HIS
1	N	363	HIS
1	N	383	ASN
1	N	394	ASN
1	N	424	ASN
1	N	604	ASN
1	N	614	HIS
1	N	624	GLN
1	N	628	GLN
1	N	775	GLN
1	N	824	GLN
1	N	843	GLN

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Mol	Chain	Res	Type
1	N	949	HIS
1	N	950	GLN
1	O	50	GLN
1	O	93	HIS
1	O	102	ASN
1	O	128	ASN
1	O	135	GLN
1	O	216	HIS
1	O	262	GLN
1	O	357	HIS
1	O	414	ASN
1	O	418	HIS
1	O	597	ASN
1	O	604	ASN
1	O	675	GLN
1	O	761	GLN
1	O	775	GLN
1	O	815	HIS
1	O	843	GLN
1	O	949	HIS
1	O	990	HIS
1	O	1008	GLN
1	P	89	ASN
1	P	93	HIS
1	P	102	ASN
1	P	128	ASN
1	P	221	GLN
1	P	226	HIS
1	P	262	GLN
1	P	297	ASN
1	P	316	HIS
1	P	357	HIS
1	P	359	HIS
1	P	383	ASN
1	P	385	ASN
1	P	394	ASN
1	P	467	ASN
1	P	510	GLN
1	P	597	ASN
1	P	604	ASN
1	P	622	HIS
1	P	775	GLN

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Mol	Chain	Res	Type
1	P	783	GLN
1	P	804	ASN
1	P	843	GLN
1	P	949	HIS
1	P	958	ASN
1	P	977	HIS
1	P	985	ASN
1	P	1022	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 31 ligands modelled in this entry, 31 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	1021/1023 (99%)	-1.05	0 100 100	2, 24, 54, 79	0
1	B	1021/1023 (99%)	-1.08	0 100 100	2, 23, 54, 81	0
1	C	1021/1023 (99%)	-1.04	0 100 100	4, 21, 52, 80	0
1	D	1021/1023 (99%)	-1.08	0 100 100	4, 25, 56, 81	0
1	E	1021/1023 (99%)	-0.92	1 (0%) 95 96	8, 34, 61, 86	0
1	F	1021/1023 (99%)	-1.01	0 100 100	2, 23, 55, 78	0
1	G	1021/1023 (99%)	-1.05	0 100 100	3, 27, 58, 82	0
1	H	1021/1023 (99%)	-0.90	1 (0%) 95 96	6, 33, 61, 89	0
1	I	1021/1023 (99%)	-1.00	0 100 100	4, 30, 59, 80	0
1	J	1021/1023 (99%)	-1.00	0 100 100	8, 28, 56, 85	0
1	K	1021/1023 (99%)	-0.86	1 (0%) 95 96	10, 35, 64, 92	0
1	L	1021/1023 (99%)	-0.83	1 (0%) 95 96	6, 35, 63, 84	0
1	M	1021/1023 (99%)	-0.77	3 (0%) 94 95	12, 39, 65, 80	0
1	N	1021/1023 (99%)	-0.94	0 100 100	9, 30, 59, 89	0
1	O	1021/1023 (99%)	-0.98	0 100 100	11, 31, 60, 81	0
1	P	1021/1023 (99%)	-0.42	17 (1%) 73 76	14, 43, 69, 89	0
All	All	16336/16368 (99%)	-0.93	24 (0%) 95 96	2, 30, 60, 92	0

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	P	81	ALA	4.3
1	P	313	VAL	3.6
1	P	143	PHE	3.4
1	P	70	PRO	3.3
1	P	141	ILE	3.1

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Mol	Chain	Res	Type	RSRZ
1	H	162	GLY	3.0
1	K	731	PRO	2.9
1	P	73	TRP	2.9
1	M	162	GLY	2.8
1	P	68	ALA	2.8
1	P	595	THR	2.4
1	P	149	ALA	2.4
1	P	180	GLY	2.3
1	L	173	LEU	2.3
1	P	189	LEU	2.3
1	P	133	TRP	2.3
1	P	115	PRO	2.3
1	E	143	PHE	2.2
1	P	33	PHE	2.2
1	M	10	VAL	2.2
1	P	799	THR	2.1
1	M	177	LEU	2.1
1	P	203	TRP	2.0
1	P	579	ASP	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
2	MG	A	1101	1/1	0.98	0.15	13.18	37,37,37,37	0
2	MG	F	1101	1/1	0.78	0.19	12.48	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
2	MG	C	1101	1/1	0.97	0.18	11.03	23,23,23,23	0
2	MG	G	1101	1/1	0.91	0.17	9.44	32,32,32,32	0
2	MG	B	1101	1/1	0.96	0.15	6.04	25,25,25,25	0
2	MG	I	1101	1/1	0.99	0.13	5.76	33,33,33,33	0
2	MG	N	1101	1/1	0.97	0.14	4.50	32,32,32,32	0
2	MG	H	1101	1/1	0.96	0.15	3.80	27,27,27,27	0
2	MG	J	1101	1/1	0.94	0.14	3.71	34,34,34,34	0
2	MG	D	1102	1/1	0.95	0.13	3.38	42,42,42,42	0
2	MG	E	1101	1/1	0.96	0.15	3.33	39,39,39,39	0
2	MG	O	1101	1/1	0.92	0.12	2.59	40,40,40,40	0
2	MG	D	1101	1/1	0.97	0.12	2.34	28,28,28,28	0
2	MG	L	1101	1/1	0.98	0.14	2.33	31,31,31,31	0
2	MG	M	1101	1/1	0.94	0.14	1.54	56,56,56,56	0
2	MG	N	1102	1/1	0.98	0.11	0.18	26,26,26,26	0
2	MG	C	1102	1/1	0.93	0.08	-0.01	28,28,28,28	0
2	MG	P	1101	1/1	0.93	0.12	-0.29	49,49,49,49	0
2	MG	I	1102	1/1	0.98	0.08	-0.45	33,33,33,33	0
2	MG	E	1102	1/1	0.95	0.08	-0.52	32,32,32,32	0
2	MG	A	1102	1/1	0.95	0.08	-0.56	37,37,37,37	0
2	MG	K	1101	1/1	0.89	0.08	-0.70	34,34,34,34	0
2	MG	O	1102	1/1	0.99	0.09	-0.82	15,15,15,15	0
2	MG	H	1102	1/1	0.99	0.06	-1.23	22,22,22,22	0
2	MG	L	1102	1/1	0.95	0.04	-1.70	28,28,28,28	0
2	MG	K	1102	1/1	0.98	0.05	-1.78	25,25,25,25	0
2	MG	F	1102	1/1	0.99	0.07	-1.93	26,26,26,26	0
2	MG	J	1102	1/1	0.96	0.05	-2.47	29,29,29,29	0
2	MG	B	1102	1/1	0.99	0.05	-2.56	23,23,23,23	0
2	MG	P	1102	1/1	0.99	0.05	-2.62	26,26,26,26	0
2	MG	G	1102	1/1	0.99	0.03	-5.22	18,18,18,18	0

6.5 Other polymers

There are no such residues in this entry.