



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 16, 2014 – 06:20 PM BST

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 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/ValidationPDFNotes.html>

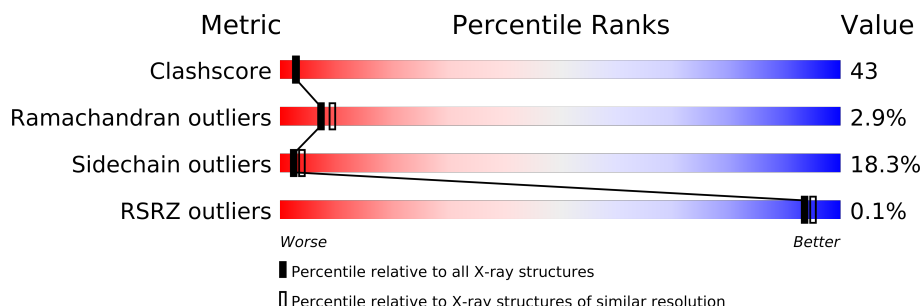
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.16 November 2013
Xtriage (Phenix) : dev-1323
EDS : stable23397
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable23397

1 Overall quality at a glance

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	79885	3562 (2.50-2.50)
Ramachandran outliers	78287	3480 (2.50-2.50)
Sidechain outliers	78261	3482 (2.50-2.50)
RSRZ outliers	66119	2785 (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. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

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	
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 that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Geometry	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	M	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 hydrogen and 0 are deuterium.

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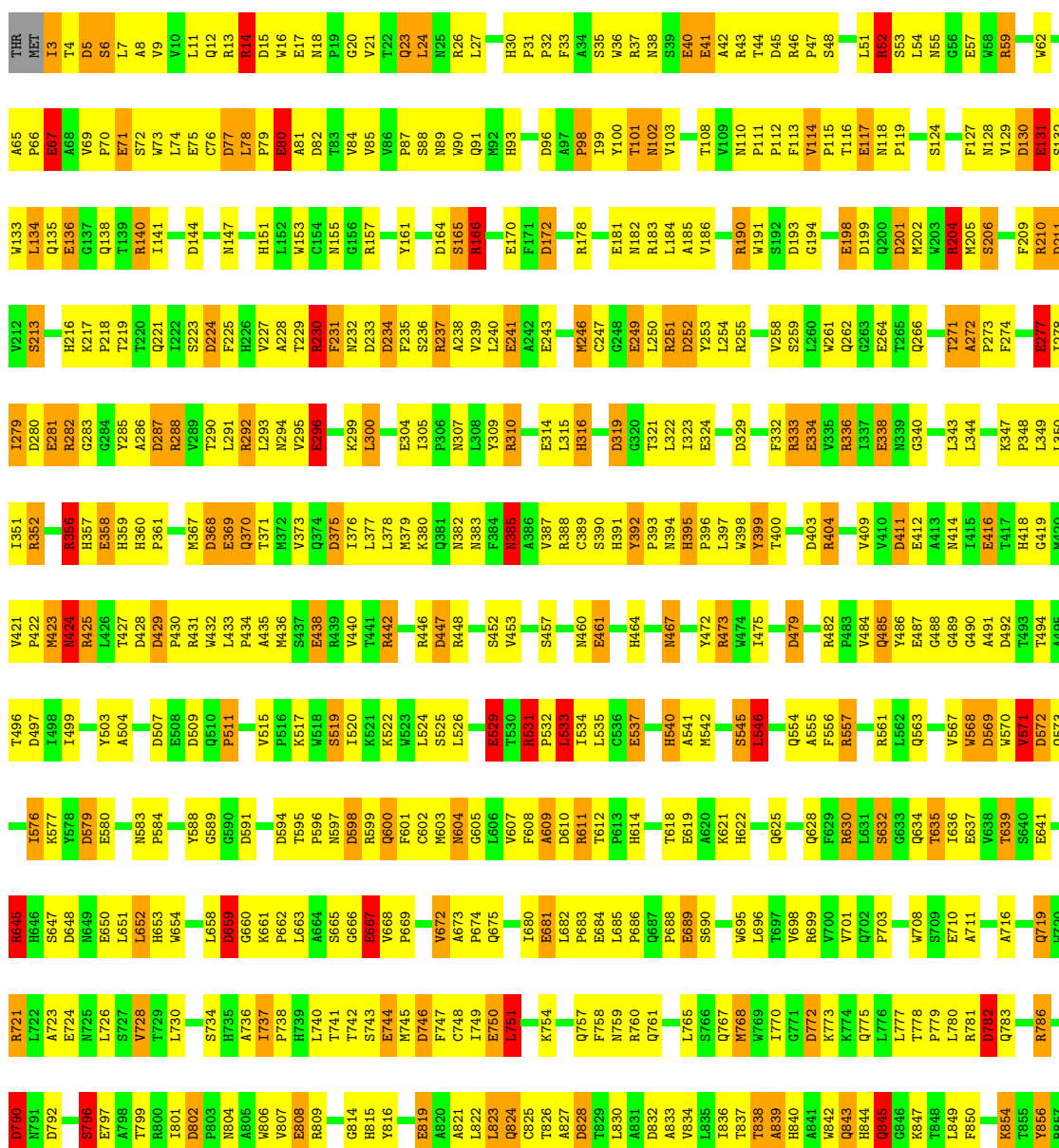
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	D	97	Total 97	O 97	0	0
3	E	94	Total 94	O 94	0	0
3	F	91	Total 91	O 91	0	0
3	G	95	Total 95	O 95	0	0
3	H	92	Total 92	O 92	0	0
3	I	90	Total 90	O 90	0	0
3	J	97	Total 97	O 97	0	0
3	K	87	Total 87	O 87	0	0
3	L	84	Total 84	O 84	0	0
3	M	79	Total 79	O 79	0	0
3	N	94	Total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

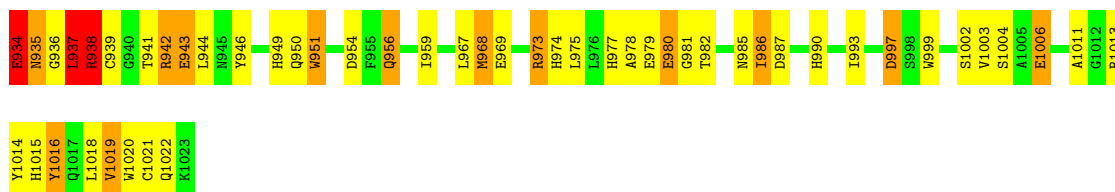
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according 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.

• Molecule 1: BETA-GALACTOSIDASE

Chain A:

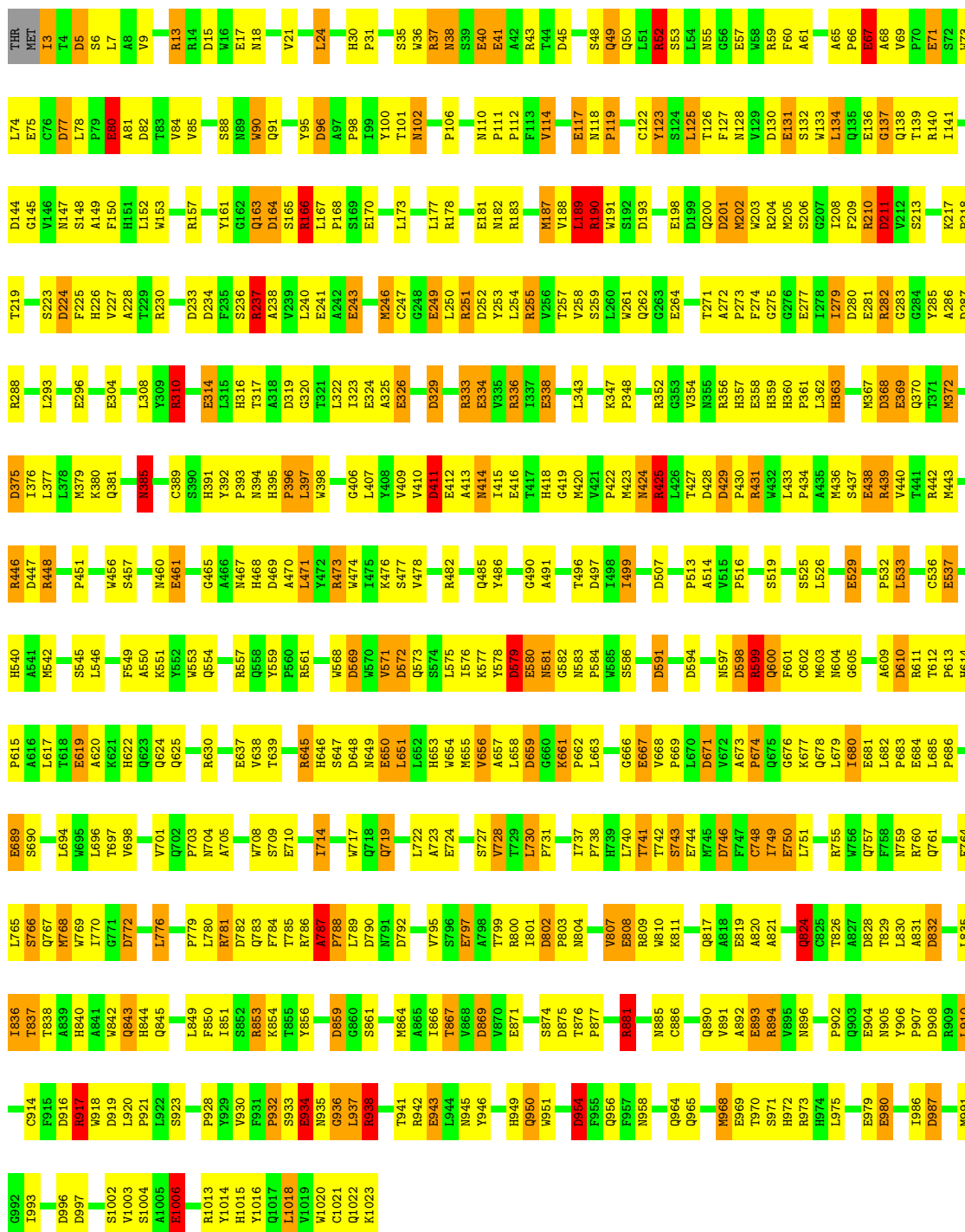


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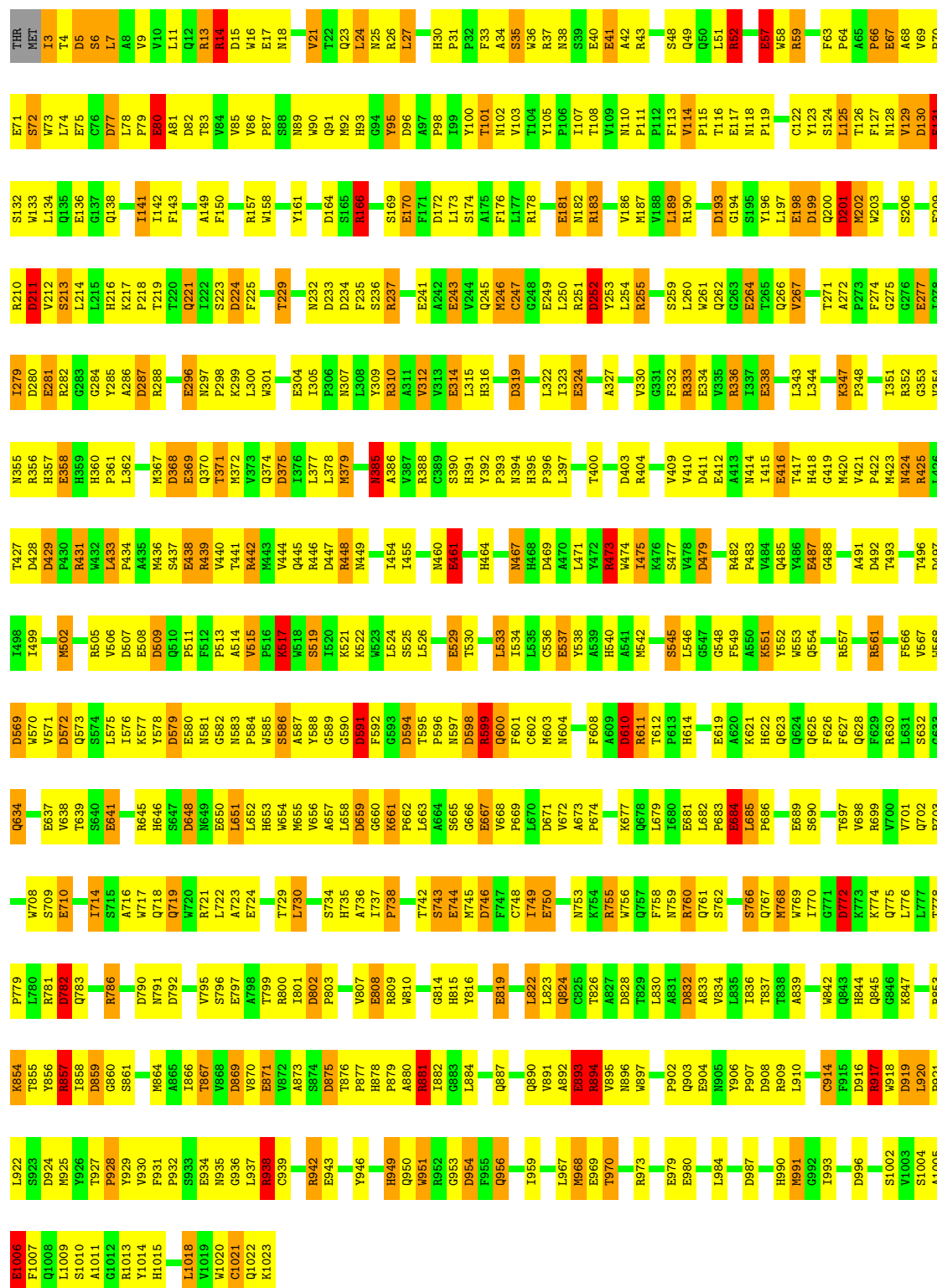
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Chain C:



• Molecule 1: BETA-GALACTOSIDASE

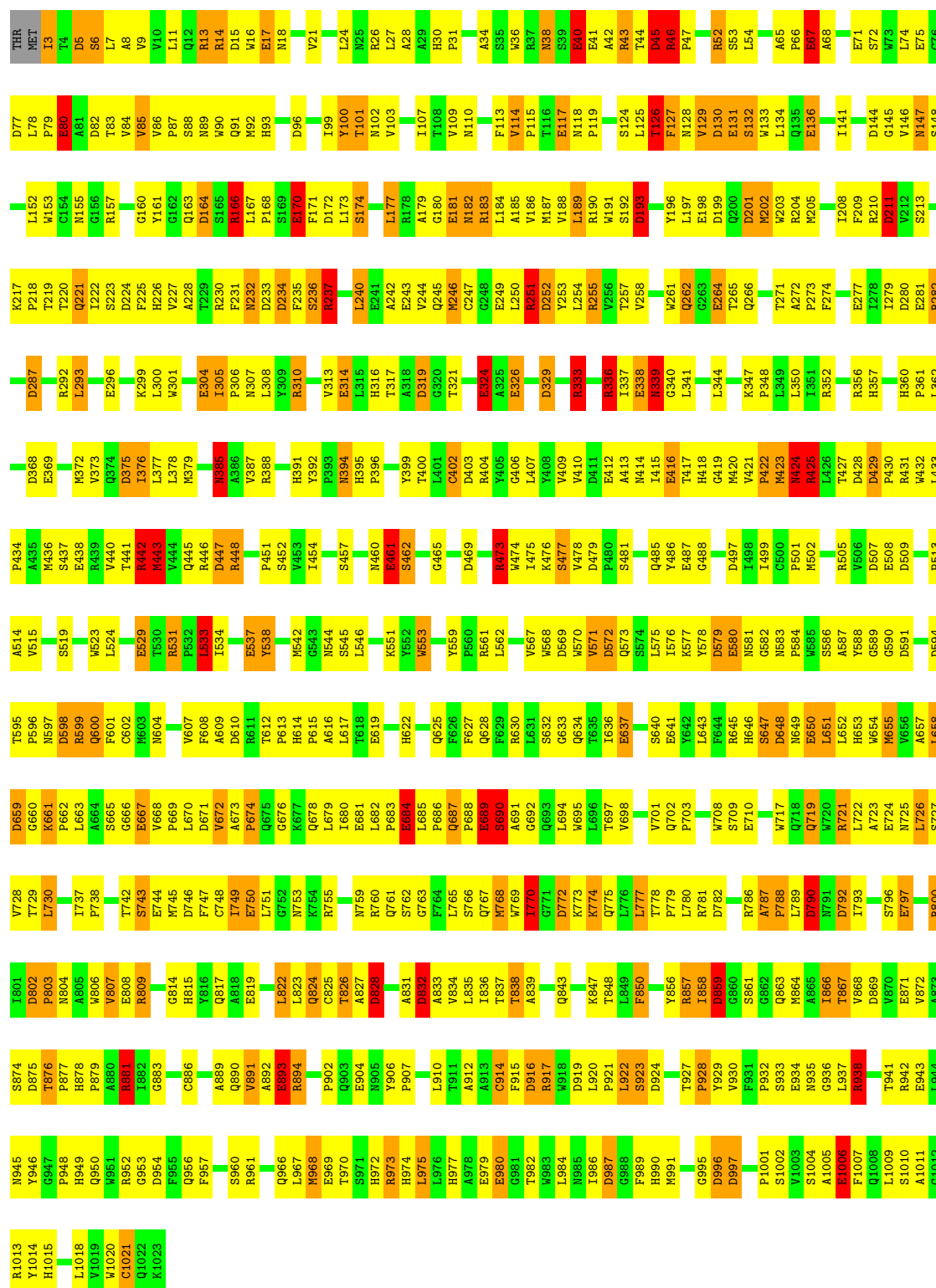
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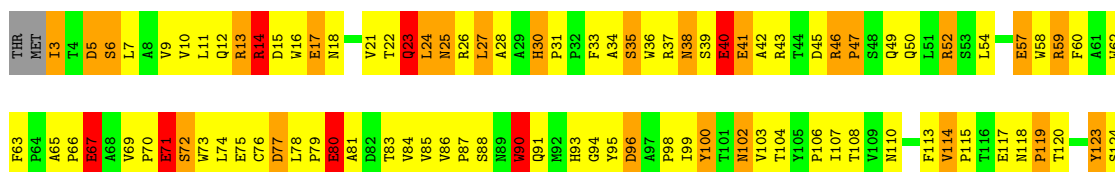


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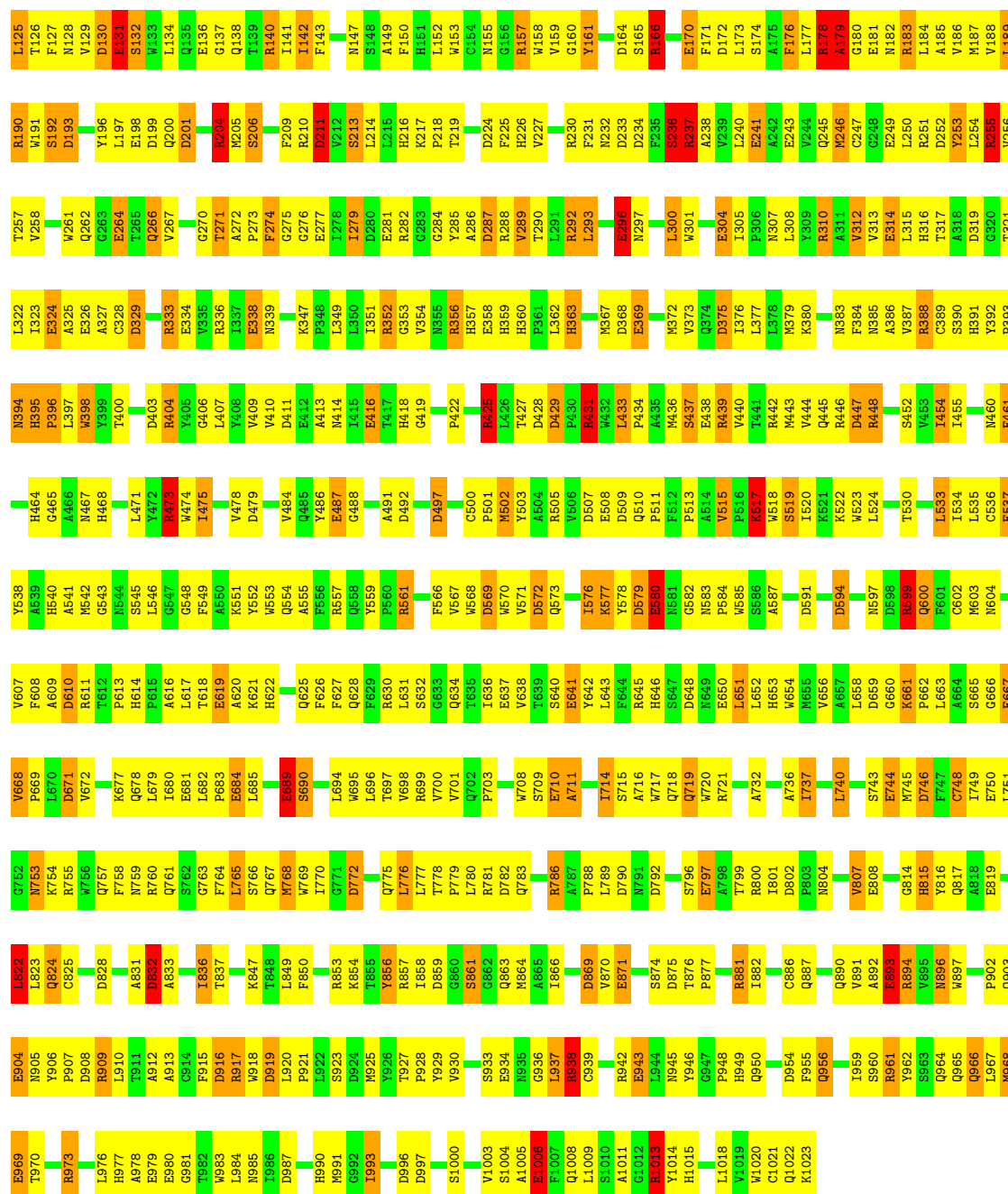
Chain E:

WORLDWIDE
PDB
PROTEIN DATA BANK



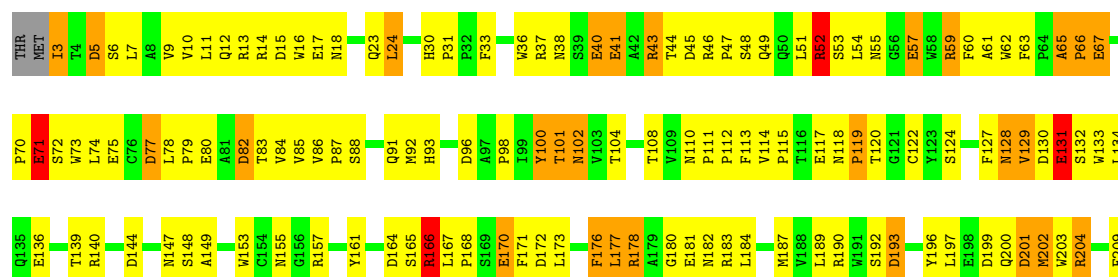


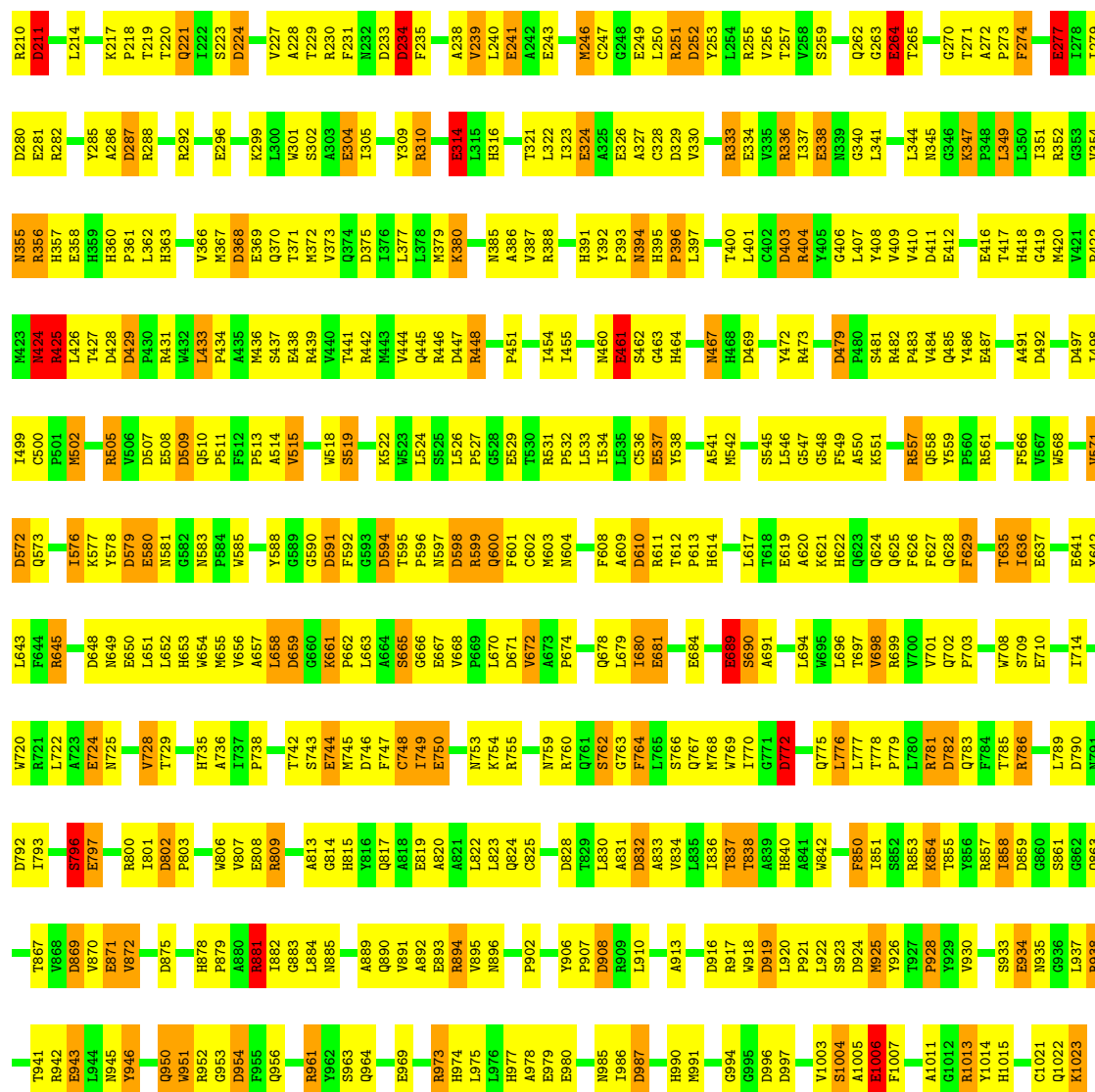




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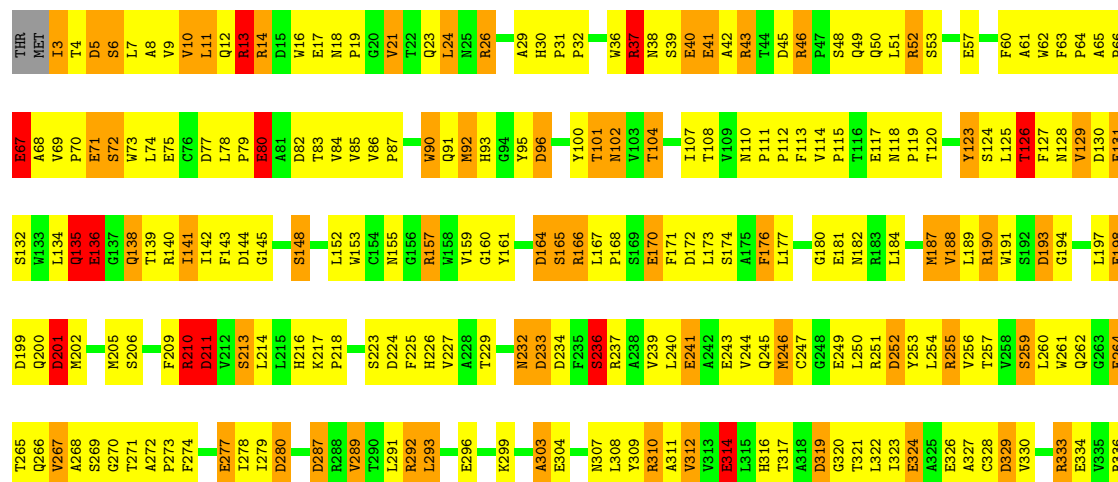
Chain J:





• Molecule 1: BETA-GALACTOSIDASE

Chain K:





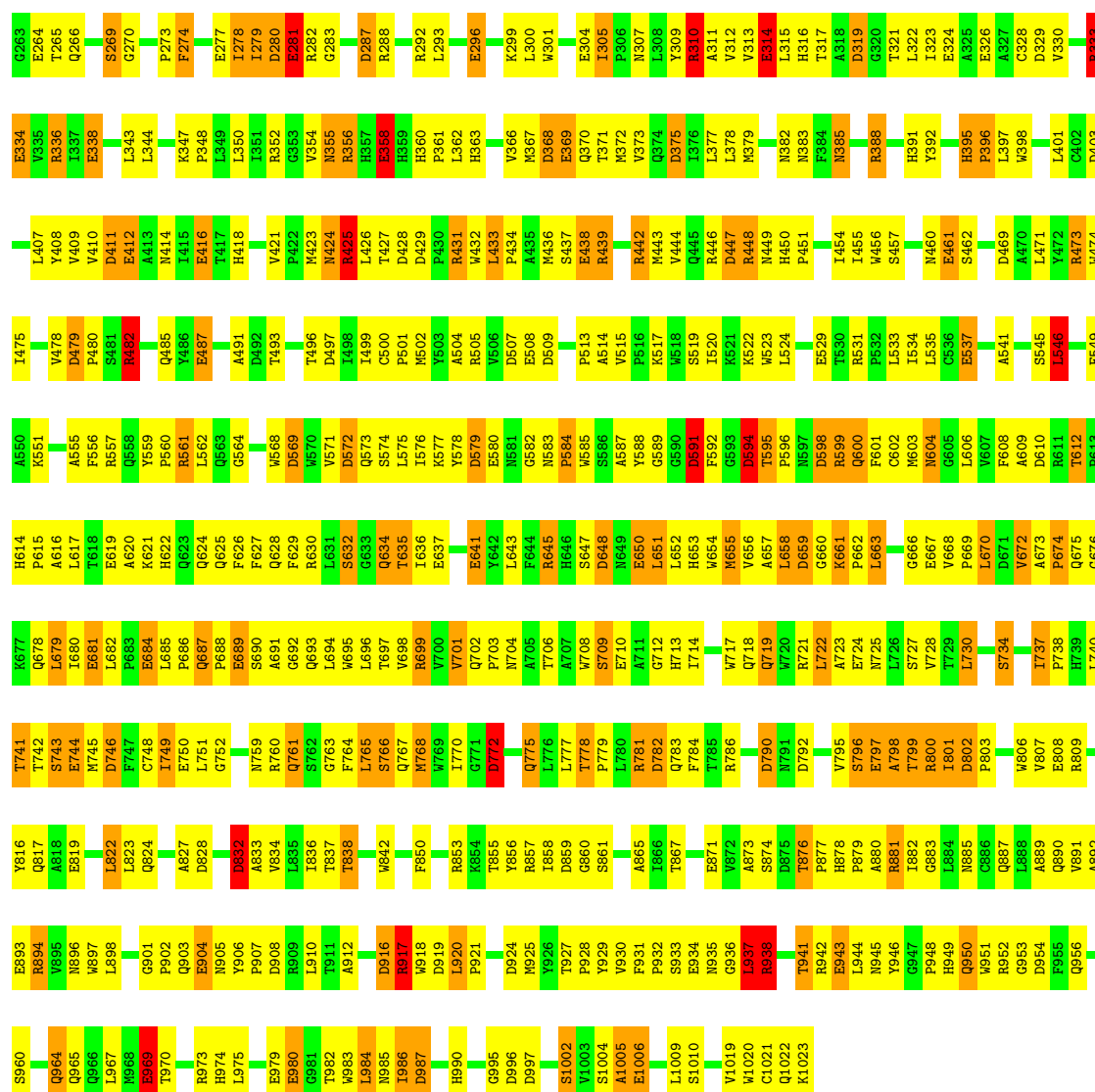


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A311	M373	A435	I498	Y559	K621	E681	L752	L822	L884	G947	Q1008
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L315	L377	R439	M502	Q563	Q625	L685	R761	T826	L888	N951	G1012
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A318	Q380	R442	R505	Y568	Q628	R689	G763	T829	R891	F954	H1015
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A325	R388	N449	F512	S574	T635	V698	T770	I836	G961	Y962	
E326	C389	H450	P513	L575	L636	R699	G771	T837	L900	Y962	
A327	S390	A451	A514	P637	E637	W700	D772	T838	Q901	Q963	
C328	R391	S452	V515	K577	V638	V701		A839	Q902	Q964	
D329	Y392	S453	P516	V578	T639	Q702	Q775	H840	E904	Q965	
V330	P393	I454	K517	D579	S640	P703	L776	A841	N905	Q966	
G331	N394	L455	W518	E580	E641	W704	L777	Q842	Y906	L967	
F332	H395	N456	S519	N581	Y642	A705	T778	Q843	P907	N968	
R333	P396	S457	I520	G582	L643	T706	P779	H844	D908	E969	
E334	L397		K521	N583	F644	A707	L780	Q845	R898	T970	
V335	Y398	N460	K522	P584	R645	W708	R781	G846	L910	S971	
R336	T400	S462	W523	N585	H466	S709	D782	K847	T911	H972	
L337		Q463	L524	S586	L652	E710	G783	T848	A912	H973	
E338		S463	S525	A587	D648	A711	F784	L849	A913	H974	
N339	D403	H464	L526	V588	N649	H712	T785	F850	C914	L975	
G340	R404	G465	E529	G589	E650	W713	R786	L851	F915	L976	
	Y405	A466	T530	G590	L651	I714	A787	S852	D916	E979	
	G406	D468	R531	F592	H652	W717	P788	K853	R917	G980	
	L407	D469	R532	G593	L653	Q718	D790	T855	D919	G981	
	Y408	A470	P533	D594	W654	Q719	N791	Y856	L920	T982	
	V409	L471	I534	D594	M655	W720	D792	R857	P921	N983	
	V410	Y472	L535	N597	A657		T793	L858	L922	L984	
	D411	A473	C536	D598	L658	A723	R796	A865	S923	N985	
	A413	R474	E537	R599	D659	E724	E796	R866	D924	H986	
	N414	I475	Y538	Q600	G660	S734	E797	T867	N925	D987	
	Q353	I415	A539	P601	K661	S727		V868	Y926	G988	
	V354	E416	H540	C502	P662		R800	M864	T927	F989	
	N355	T417	A541	M603	L663	L730	I801	A865	P928	H990	
	R356	H418	D478	N604	A664	S734	D802	T866	Y929	M991	
	H357	D479	G543	G605	G666		P803	T867	V930	G992	
	G419	M544	P480	N544	L606		N804	V868		I993	
	M420	S481	P482	L546	V607	P738	A805	D869	S933	G994	
	V421	R482	S545	F608	L607	W739	W806	S870	E934	G995	
	P422	P483	G547	A609	P669	L740	R807	E871	N935	D996	
	M423	V484	G548	D610	L670	T741	E808	S874	G936	D997	
	L362	Q485	F549	R611	D671	T742	R809	D875	L937	S998	
	G363	Y486	A550	T612	V672	S743	W810	S875	R938	W999	
	G365	G488	K551	P613	A673	E744	R814	T876	C939	S1000	
	V366	G489	Y552	H614	P674	M745	G814	P877	Q940	P1001	
	K367	D428	W553	P615	Q675	D746	H815	H878	T941	S1002	
	D368	D429	Q554	A616	G676	F747	Y816	P879	T942	V1003	
	E369	P430	A491	L617	K677	Q748	Q817	A880	E943	L134	
		R431	D492				A818	R881	L944	A1005	
	W432		F556	T618	Q678	I749					

● Molecule 1: BETA-GALACTOSIDASE

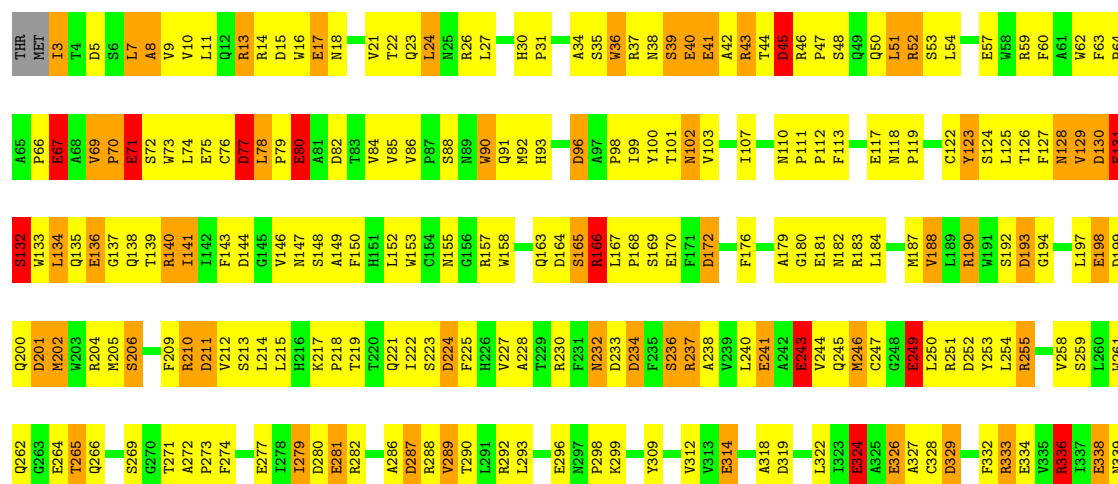
Chain N:

THR	A65	E136	D201	THR	A65	E136	D201
MET	P66	G137	M202	MET	P66	G137	M202
I3	E67	Q138	W203	I3	E67	Q138	W203
T4	A68	T139	R204	T4	A68	T139	R204
D5	P69	R140	M205	D5	P69	R140	M205
S6	V70	S141	S206	S6	V70	S141	S206
L7	E71	I142	G207	L7	E71	I142	G207
A8	S72	F143	L208	A8	S72	F143	L208
V9	W73	D144	P209	V9	W73	D144	P209
L10	S74	G145	R210	L10	S74	G145	R210
L11	E75	V146	D211	L11	E75	V146	D211
Q12	G76	N147	T212	Q12	G76	N147	T212
R13	D77	S148	S213	R13	D77	S148	S213
R14	L78	L152	L214	R14	L78	L152	L214
D15	P79	W153	K217	D15	P79	W153	K217
D16	E80	C154	P218	D16	E80	C154	P218
E17	A81	M155	T219	E17	A81	M155	T219
N18	D82	G156	Q220	N18	D82	G156	Q220
P19	T83	R157	Q221	P19	T83	R157	Q221
Q20	V84		L222	Q20	V84		L222
G21	H85	G160	S223	G21	H85	G160	S223
V22	Y86	Y161	D224	V22	Y86	Y161	D224
Q23	N89	G162	F225	Q23	N89	G162	F225
L24	Q90	L163	H226	L24	Q90	L163	H226
N25	Q91	Q163	V227	N25	Q91	Q163	V227
R26		D164	A228	R26		D164	A228
	Y95	S165	R229		Y95	S165	R229
A29	D96	R166	R230	A29	D96	R166	R230
H30	P100	L167	P231	H30	P100	L167	P231
P31	Y101	T101	N232	P31	Y101	T101	N232
	N102	E170	D233		N102	E170	D233
S35	V103	D172	D234	S35	V103	D172	D234
W36		F171	P235	W36		F171	P235
R37		L173	S236	R37		L173	S236
N38	V109	N110	R237	N38	V109	N110	R237
S39	E40	F175	A238	S39	E40	F175	A238
E41	E41	L177	V239	E41	E41	L177	V239
A42	A42	R178	L240	A42	A42	R178	L240
R43	P115	A179	E241	R43	P115	A179	E241
T44	T116	G180	E242	T44	T116	G180	E242
D45	E117	E181	E243	D45	E117	E181	E243
R46	N118	N182	V244	R46	N118	N182	V244
P47	P119	R183	Q245	P47	P119	R183	Q245
S48	T120	L184	N246	S48	T120	L184	N246
Q49	G122	A185	C247	Q49	G122	A185	C247
Q50	C121	V186	G248	Q50	C121	V186	G248
L51	Y123	M187	E249	L51	Y123	M187	E249
S52	S124	V188	L250	S52	S124	V188	L250
S53	L125	L189	R251	S53	L125	L189	R251
L54	T126	R190	D252	L54	T126	R190	D252
	F127	W191	Y253		F127	W191	Y253
E57	N128	S192	L254	E57	N128	S192	L254
W58	V129	R255	D193	W58	V129	R255	D193
R59	D130	G194	G194	R59	D130	G194	G194
F60	P100	S195	T257	F60	P100	S195	T257
A61	S132			A61	S132		
W62	W133	E198	L260	W62	W133	E198	L260
F63	L134	W261	W261	F63	L134	W261	W261
	Q135	Q262	Q262		Q135	Q262	Q262



• Molecule 1: BETA-GALACTOSIDASE

Chain O:



F955	Q956	F957	N958	L959	S960	R961	Y962	Q965	L967	M968	E969	T970	S971	H972	R973	H974	L975	L976	E979	G980	G981	D987	G988	F989	H990	I993	G994	G995	D996	D997	S998	W999	V1003	A1004	A1005	F1006	F1007	Q1008	L1009	S1010	Y1014	H1015	Y1016	Q1017	V1018	L1019	V1020	G1021	Q1022	K1023																																	
Q887	L888	A889	G890	V891	A892	E893	R894	V895	N896	W897	L900	G901	P902	Q903	Y906	P907	D908	R909	A912	F915	D916	R917	W918	D919	L920	P921	L922	S923	D924	Y929	V930	F931	P932	S933	E934	N935	G936	L937	R938	C939	G940	T941	R942	E943	N944	Y946	L947	V948	L949	N950	G951	R952	G953	D954																													
E819	A820	A821	L822	L823	Q824	D828	T829	L830	A831	D832	A833	T834	L835	T836	T837	R838	A839	H840	A841	W842	Q843	H844	Q845	G846	K847	T848	L849	F850	L851	S852	R853	K854	Y855	R856	R857	L858	M864	A865	L866	T867	V868	D869	E870	E871	V872	A873	S874	D875	T876	P877	H878	P879	A880	R881	L884																												
I749	E750	G751	G752	N753	K754	R755	F758	N759	R760	Q761	S762	G763	F764	S766	R767	W768	I769	I770	G771	D772	K773	K774	Q775	L776	L777	L778	P779	L780	R781	D782	R786	A787	P788	L789	D790	N791	I792	R793	S794	E797	A798	T799	R800	I801	D802	P803	V807	E808	G814	H815	Q816	A818																															
E681	L682	P683	G684	L685	P686	Q687	P688	S689	S690	Q693	L694	W695	L696	T697	V698	R699	W700	V701	Q702	P703	N704	A705	T706	A707	W708	S709	E710	A711	G712	H713	Q718	Q719	W720	R721	L722	L726	S727	V728	T729	L730	P731	S734	H735	A736	I737	P738	H739	L740	S743	E744	M745	D746	F747	C748																													
R611	T612	P613	H614	L617	T618	E619	A620	K621	Q624	Q625	Q628	S632	G633	Q634	T635	V638	E641	R645	H646	S647	E648	N649	E650	L651	L652	H653	W654	A657	L658	D659	K661	P662	L663	A664	S665	G666	E667	V668	P669	L670	D671	V672	A673	P674	Q675	K677	Q678	L679	T680																																		
L546	G547	G548	F549	A550	K551	Y552	W553	Q554	A555	F556	R557	Q558	Y559	P560	L562	G565	F566	W568	D569	W570	V571	D572	Q573	I576	K577	Y578	D579	E580	N583	P584	W585	S586	Y588	D591	G592	G593	D594	T595	P596	N597	D598	R599	Q600	P601	C602	M603	N604	V607	P608	G609	D610																																
I475	K476	S477	V478	D479	V484	Q485	Y486	M487	G488	G489	D492	T496	D497	L498	G499	P501	R505	W506	W507	E508	Q509	P511	V515	P516	R517	W518	S519	K521	K522	K523	S525	G528	F529	G530	D531	T532	P533	P534	N535	L536	L537	Q538	C539	G540	M541	H542	G543	S544	S545																																		
D411	E412	A413	N414	I415	E416	T417	H418	G419	M420	N421	P422	M423	M424	R425	R426	D427	D428	D429	P430	R431	M432	L433	P434	M435	M436	S437	E438	R439	V440	T441	R442	M443	R446	D447	R448	N449	H450	S451	S452	V453	I454	I455	W456	N460	P461	R462	S463	S464	G465	H466	G467	M468	L471	Y472	R473	W474	V475	G476	F477	C478	D479	E480	F481	G482	H483	I484	J485	K486	L487	M488	N489	O490	P491	Q492	R493	S494	T495	U496	V497	W498	X499	Y499	Z499
G340	G341	L341	L342	L343	L344	L351	R352	G353	V354	N355	R356	R357	R358	R359	R360	R361	R362	R363	G364	G365	V366	R367	R368	R369	R370	R371	R372	R373	R374	R375	R376	R377	R378	R379	R380	R381	R382	R383	R384	R385	R386	R387	R388	R391	R392	R393	R394	R395	R396	R397	L401	C402	D403	L407	R408	V409	V410																										

● Molecule 1: BETA-GALACTOSIDASE

Chain P:

C247	G248	E249	L250	R251	D252	Y253	L254	R255	V256	T257	V258	S259	L260	W261	Q262	G263	E264	T265	Q266	V267	A268	S269	G270	T271	A272	T273	F274	G275	G276	E277	L278	T279	D280	E281	R282	G283	G284	Y285	A286	D287	R288	V289	L293	N294	V295	E296	N297	P298	R299	L300	W301	S302	A303	E304	I305	P306	Q307	L308																																							
V186	M187	R190	W191	S192	D193	G194	S195	Y196	L197	E198	D199	Q200	D201	M202	W203	R204	N205	S206	G207	T208	F209	R210	D211	V212	S213	L214	L215	H216	L217	C1218	G1219	R1220	T1221	G1222	D1223	D124	Y1245	G1246	H1247	F1248	L1249	S1250	R1251	P1252	S1253	E1254	A1255	G1256	E1257	N1258	R1259	L1260	E1261	G1262	R1263	T1264	V1265	Q1266	A1267	S1268	G1269	T1270	D1271	A1272	T1273	F1274	G1275	L1276	C1277	L1278	T1279	D1280	E1281	R1282	G1283	G1284	Y1285	A1286	D1287	A1288	V1289	L1293	N1294	V1295	E1296	N1297	P1298	R1299	L1300	W1301	S1302	A1303	E1304	I1305	P1306	Q1307	L1308
G122	Y123	T126	F127	N128	V129	E130	S131	G132	W133	L134	Q135	E136	G137	M138	T139	R140	I141	I142	F143	D144	G145	V146	N147	F150	H151	L152	W153	L154	C155	G156	L157	W158	V159	G160	Y161	G162	Q163	D164	S165	R166	E170	F171	D172	L173	S174	A175	F176	L177	R178	A179	G180	E181	N182	R183	Q184	A185																																									
W62	F63	P64	A65	P66	E67	A68	V69	P70	E71	S72	W73	L74	E75	D77	L78	P79	E80	A81	D82	T83	Q84	V85	V86	F87	S88	N89	W90	Q91	M92	H93	G94	Y95	D96	A97	P98	I99	Y100	T101	N102	V103	T104	Y105	P106	I107	T108	V109	P110	P111	P112	F113	V114	P115	T116	E117	N118	P119	F120	G121																																							
THR	MET	T3	T4	D5	S6	L7	A8	V9	I10	L11	Q12	R13	L14	D15	W16	E17	N18	P19	G20	V21	T22	Q23	L24	R25	R26	L27	H30	P31	M32	F33	A34	S35	W36	R37	N38	S39	E40	E41	A42	R43	T44	D45	R46	P47	S48	Q49	O50	R51	R52	L53	N54	N55	G56	E57	W58	R59	F60	A61																																							



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) 0.175 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	27.6	Xtriage
Anisotropy	0.197	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 68.0	EDS
Estimated twinning fraction	0.009 for h,-k,-h-l	Xtriage
L-test for twinning	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.30$	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.

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 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

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

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	G	2	0	0	0	0
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

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 43.

All (11096) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(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
1:F:7:LEU:HD13	1:F:74:LEU:HD11	1.28	1.11

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:577:LYS:O	1:H:584:PRO:HA	1.94	0.67
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	Distance(Å)	Clash(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
1:M:448:ARG:HH22	1:M:478:VAL:HG12	1.60	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:178:ARG:HB2	1:M:182:ASN:OD1	2.04	0.58
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	Distance(Å)	Clash(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
1:J:368:ASP:O	1:J:372:MET:HG3	2.02	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:14:ARG:NH1	1:D:16:TRP:CZ2	2.78	0.52
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	Distance(Å)	Clash(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
1:N:48:SER:OG	1:N:50:GLN:HB2	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:696:LEU:O	1:A:719:GLN:HB2	2.13	0.47
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	Distance(Å)	Clash(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
1:I:836:ILE:CD1	1:I:836:ILE:N	2.77	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:964:GLN:O	1:C:965:GLN:C	2.54	0.44
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	Distance(Å)	Clash(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
1:M:147:ASN:HA	1:M:148:SER:HA	1.62	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:708:TRP:CD1	1:A:708:TRP:N	2.87	0.41
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	Distance(Å)	Clash(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
1:P:559:TYR:HD1	1:P:559:TYR:N	2.18	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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

5.3.1 Protein backbone ⓘ

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%)	13	20
1	B	1019/1023 (100%)	914 (90%)	85 (8%)	20 (2%)	11	17
1	C	1019/1023 (100%)	919 (90%)	81 (8%)	19 (2%)	12	19
1	D	1019/1023 (100%)	910 (89%)	98 (10%)	11 (1%)	21	34
1	E	1019/1023 (100%)	842 (83%)	135 (13%)	42 (4%)	4	5
1	F	1019/1023 (100%)	892 (88%)	101 (10%)	26 (3%)	8	11
1	G	1019/1023 (100%)	893 (88%)	101 (10%)	25 (2%)	9	12
1	H	1019/1023 (100%)	845 (83%)	140 (14%)	34 (3%)	6	7
1	I	1019/1023 (100%)	884 (87%)	111 (11%)	24 (2%)	9	13
1	J	1019/1023 (100%)	887 (87%)	118 (12%)	14 (1%)	16	27
1	K	1019/1023 (100%)	855 (84%)	131 (13%)	33 (3%)	6	8
1	L	1019/1023 (100%)	838 (82%)	146 (14%)	35 (3%)	6	7
1	M	1019/1023 (100%)	836 (82%)	127 (12%)	56 (6%)	3	2
1	N	1019/1023 (100%)	875 (86%)	117 (12%)	27 (3%)	8	11
1	O	1019/1023 (100%)	889 (87%)	102 (10%)	28 (3%)	8	10
1	P	1019/1023 (100%)	797 (78%)	164 (16%)	58 (6%)	3	2
All	All	16304/16368 (100%)	13985 (86%)	1849 (11%)	470 (3%)	7	9

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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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%)	3	5
1	B	873/875 (100%)	709 (81%)	164 (19%)	2	3
1	C	873/875 (100%)	754 (86%)	119 (14%)	5	10
1	D	873/875 (100%)	729 (84%)	144 (16%)	3	6
1	E	873/875 (100%)	686 (79%)	187 (21%)	1	2
1	F	873/875 (100%)	735 (84%)	138 (16%)	4	6
1	G	873/875 (100%)	717 (82%)	156 (18%)	2	4
1	H	873/875 (100%)	693 (79%)	180 (21%)	2	3
1	I	873/875 (100%)	716 (82%)	157 (18%)	2	4
1	J	873/875 (100%)	755 (86%)	118 (14%)	6	10
1	K	873/875 (100%)	722 (83%)	151 (17%)	3	5
1	L	873/875 (100%)	704 (81%)	169 (19%)	2	3
1	M	873/875 (100%)	677 (78%)	196 (22%)	1	2
1	N	873/875 (100%)	717 (82%)	156 (18%)	2	4
1	O	873/875 (100%)	715 (82%)	158 (18%)	2	4
1	P	873/875 (100%)	665 (76%)	208 (24%)	1	1
All	All	13968/14000 (100%)	11417 (82%)	2551 (18%)	2	4

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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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 ⓘ

There are no RNA chains in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

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.

5.7 Other polymers ⓘ

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%)	-0.94	0 100 100	2, 24, 54, 79	0
1	B	1021/1023 (99%)	-0.97	0 100 100	2, 23, 54, 81	0
1	C	1021/1023 (99%)	-0.94	0 100 100	4, 21, 52, 80	0
1	D	1021/1023 (99%)	-0.96	0 100 100	4, 25, 56, 81	0
1	E	1021/1023 (99%)	-0.84	1 (0%) 93 95	8, 34, 61, 86	0
1	F	1021/1023 (99%)	-0.92	0 100 100	2, 23, 55, 78	0
1	G	1021/1023 (99%)	-0.94	0 100 100	3, 27, 58, 82	0
1	H	1021/1023 (99%)	-0.79	1 (0%) 93 95	6, 33, 61, 89	0
1	I	1021/1023 (99%)	-0.91	0 100 100	4, 30, 59, 80	0
1	J	1021/1023 (99%)	-0.90	0 100 100	8, 28, 56, 85	0
1	K	1021/1023 (99%)	-0.79	2 (0%) 93 94	10, 35, 64, 92	0
1	L	1021/1023 (99%)	-0.76	0 100 100	6, 35, 63, 84	0
1	M	1021/1023 (99%)	-0.71	1 (0%) 93 95	12, 39, 65, 80	0
1	N	1021/1023 (99%)	-0.85	0 100 100	9, 30, 59, 89	0
1	O	1021/1023 (99%)	-0.90	0 100 100	11, 31, 60, 81	0
1	P	1021/1023 (99%)	-0.41	12 (1%) 75 77	14, 43, 69, 89	0
All	All	16336/16368 (99%)	-0.85	17 (0%) 93 95	2, 30, 60, 92	0

All (17) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	P	313	VAL	3.6
1	P	81	ALA	3.6
1	P	141	ILE	3.3
1	P	143	PHE	3.1
1	P	70	PRO	2.8

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Mol	Chain	Res	Type	RSRZ
1	H	162	GLY	2.6
1	P	73	TRP	2.5
1	P	33	PHE	2.5
1	K	731	PRO	2.5
1	P	683	PRO	2.2
1	P	203	TRP	2.2
1	K	735	HIS	2.1
1	P	595	THR	2.1
1	P	799	THR	2.1
1	M	162	GLY	2.1
1	E	143	PHE	2.0
1	P	84	VAL	2.0

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

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

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	RSR	LLDF	B-factors(Å ²)	Q<0.9
2	MG	F	1101	1/1	0.19	9.20	35,35,35,35	0
2	MG	C	1101	1/1	0.17	8.22	23,23,23,23	0
2	MG	G	1101	1/1	0.17	8.11	32,32,32,32	0
2	MG	A	1101	1/1	0.14	6.08	37,37,37,37	0
2	MG	I	1101	1/1	0.13	4.97	33,33,33,33	0
2	MG	B	1101	1/1	0.14	4.05	25,25,25,25	0
2	MG	O	1101	1/1	0.12	4.01	40,40,40,40	0
2	MG	E	1101	1/1	0.16	3.84	39,39,39,39	0
2	MG	J	1101	1/1	0.14	3.68	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
2	MG	H	1101	1/1	0.13	3.31	27,27,27,27	0
2	MG	D	1101	1/1	0.12	2.52	28,28,28,28	0
2	MG	D	1102	1/1	0.12	2.37	42,42,42,42	0
2	MG	M	1101	1/1	0.14	2.35	56,56,56,56	0
2	MG	N	1101	1/1	0.11	1.86	32,32,32,32	0
2	MG	L	1101	1/1	0.13	1.26	31,31,31,31	0
2	MG	N	1102	1/1	0.13	0.43	26,26,26,26	0
2	MG	C	1102	1/1	0.09	0.33	28,28,28,28	0
2	MG	K	1101	1/1	0.08	-0.35	34,34,34,34	0
2	MG	E	1102	1/1	0.08	-0.50	32,32,32,32	0
2	MG	P	1101	1/1	0.11	-0.58	49,49,49,49	0
2	MG	A	1102	1/1	0.07	-1.15	37,37,37,37	0
2	MG	O	1102	1/1	0.07	-1.21	15,15,15,15	0
2	MG	H	1102	1/1	0.06	-1.30	22,22,22,22	0
2	MG	L	1102	1/1	0.04	-1.95	28,28,28,28	0
2	MG	K	1102	1/1	0.04	-2.02	25,25,25,25	0
2	MG	I	1102	1/1	0.05	-2.03	33,33,33,33	0
2	MG	B	1102	1/1	0.06	-2.45	23,23,23,23	0
2	MG	P	1102	1/1	0.04	-2.64	26,26,26,26	0
2	MG	J	1102	1/1	0.05	-2.93	29,29,29,29	0
2	MG	F	1102	1/1	0.06	-4.29	26,26,26,26	0
2	MG	G	1102	1/1	0.03	-5.05	18,18,18,18	0

6.5 Other polymers ⓘ

There are no such residues in this entry.