

Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Jan 17, 2018 – 06:53 PM EST

PDB ID : 6BX0
EMDB ID: : EMD-7301
Title : Atomic resolution structure of human bufavirus 2
Authors : Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2017-12-15
Resolution : 3.79 Å(reported)

This is a Full wwPDB/EMDatabank EM Map/Model Validation Report
for a publicly released PDB/EMDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<http://wwpdb.org/validation/2016/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

MolProbity : 4.02b-467
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20030736

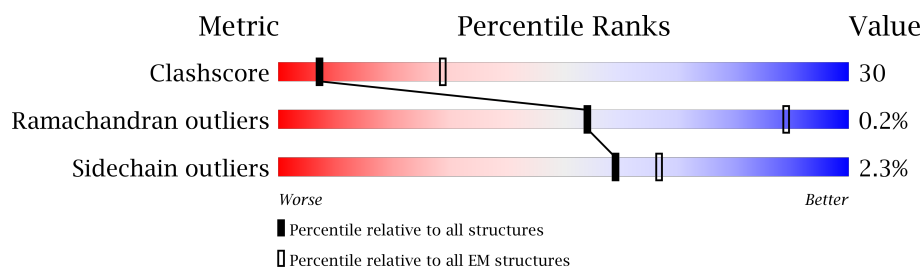
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.79 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.






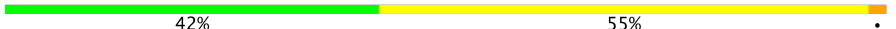
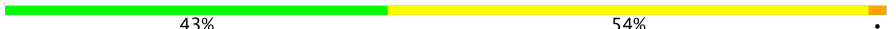
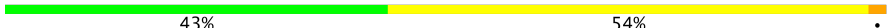
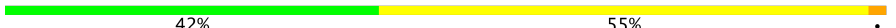


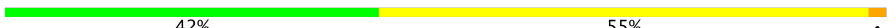
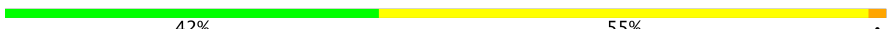
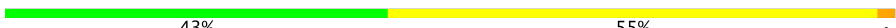




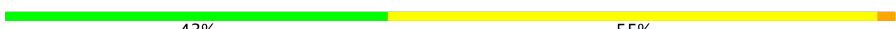
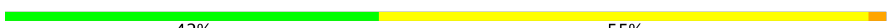

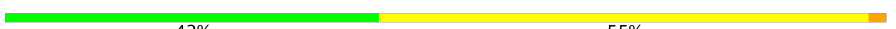
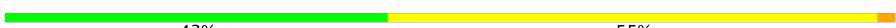

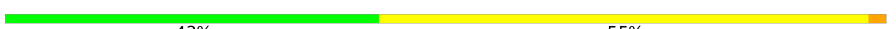


Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	125131	1336
Ramachandran outliers	121729	1120
Sidechain outliers	121581	1026

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	0	537	
1	1	537	
1	2	537	
1	3	537	
1	4	537	
1	5	537	
1	6	537	
1	7	537	
1	A	537	

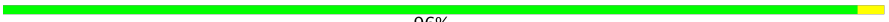
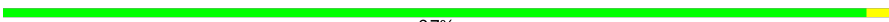












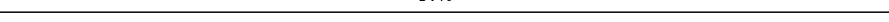
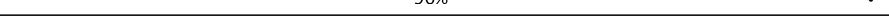
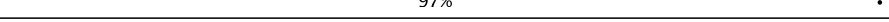
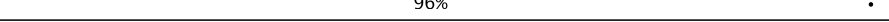
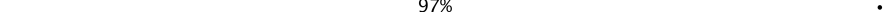
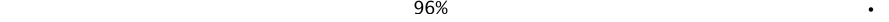
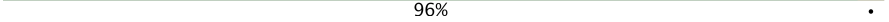
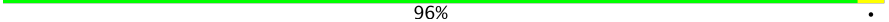
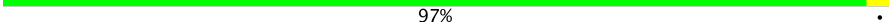
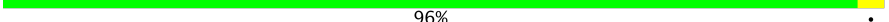
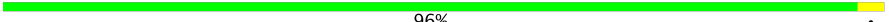
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Mol	Chain	Length	Quality of chain	
1	B	537		.
1	C	537		.
1	D	537		.
1	E	537		.
1	F	537		.
1	G	537		.
1	H	537		.
1	I	537		.
1	J	537		.
1	K	537		.
1	L	537		.
1	M	537		.
1	N	537		.
1	O	537		.
1	P	537		.
1	Q	537		.
1	R	537		.
1	S	537		.
1	T	537		.
1	U	537		.
1	V	537		.
1	W	537		.
1	X	537		.
1	Y	537		.
1	Z	537		.

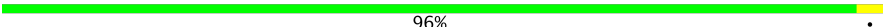
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Mol	Chain	Length	Quality of chain
1	a	537	 96% .
1	b	537	 97% .
1	c	537	 96% .
1	d	537	 96% .
1	e	537	 96% .
1	f	537	 96% .
1	g	537	 96% .
1	h	537	 97% .
1	i	537	 97% .
1	j	537	 97% .
1	k	537	 96% .
1	l	537	 96% .
1	m	537	 96% .
1	n	537	 97% .
1	o	537	 96% .
1	p	537	 97% .
1	q	537	 96% .
1	r	537	 97% .
1	s	537	 96% .
1	t	537	 96% .
1	u	537	 96% .
1	v	537	 97% .
1	w	537	 96% .
1	x	537	 96% .
1	y	537	 97% .

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Mol	Chain	Length	Quality of chain
1	z	537	 96%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 259560 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 VP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	B	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	C	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	D	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	E	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	F	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	G	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	H	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	I	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	J	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	K	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	L	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	M	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	N	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	O	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	P	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	Q	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	S	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	T	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	U	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	V	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	W	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	X	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	Y	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	Z	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	0	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	1	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	2	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	3	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	4	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	5	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	a	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	b	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	c	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	d	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	e	535	Total 4326	C 2727	N 763	O 817	S 19	0	0
1	f	535	Total 4326	C 2727	N 763	O 817	S 19	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	h	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	i	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	j	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	k	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	l	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	m	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	n	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	o	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	p	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	q	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	r	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	s	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	t	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	u	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	v	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	w	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	x	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	y	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	z	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	6	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		

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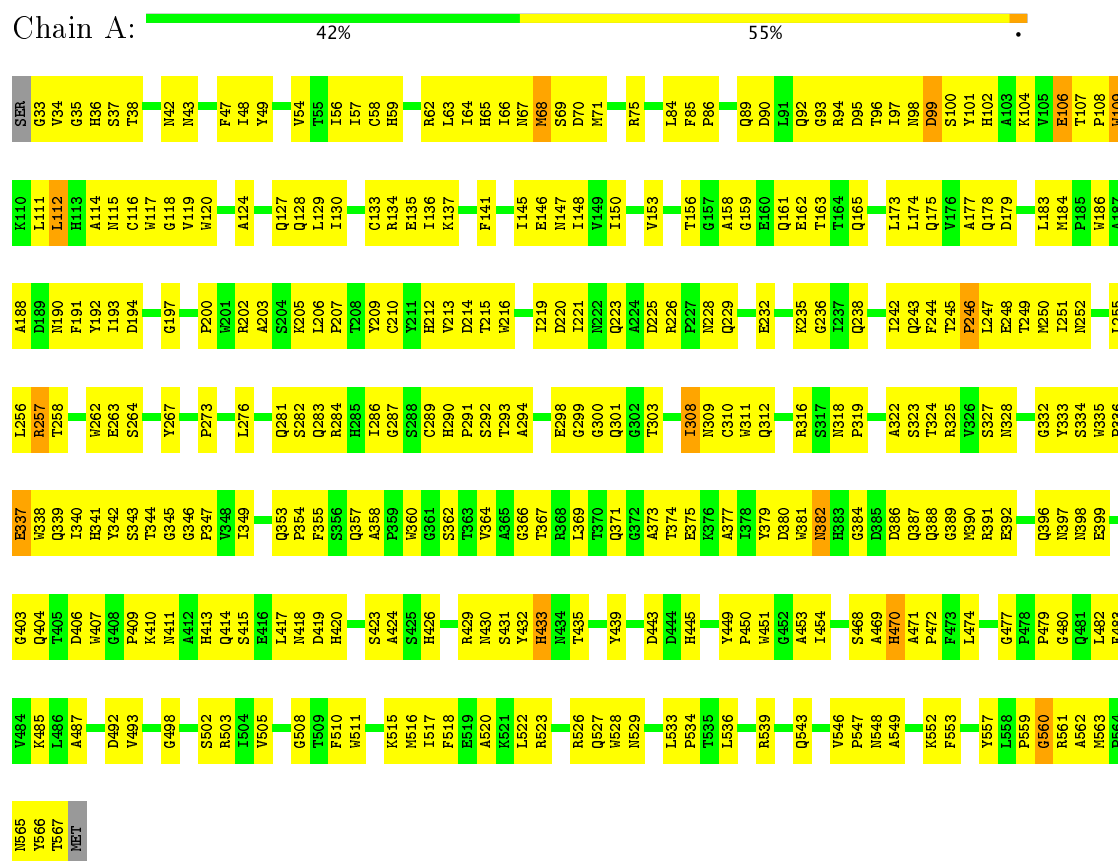
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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	7	535	4326	2727	763	817	19	0	0

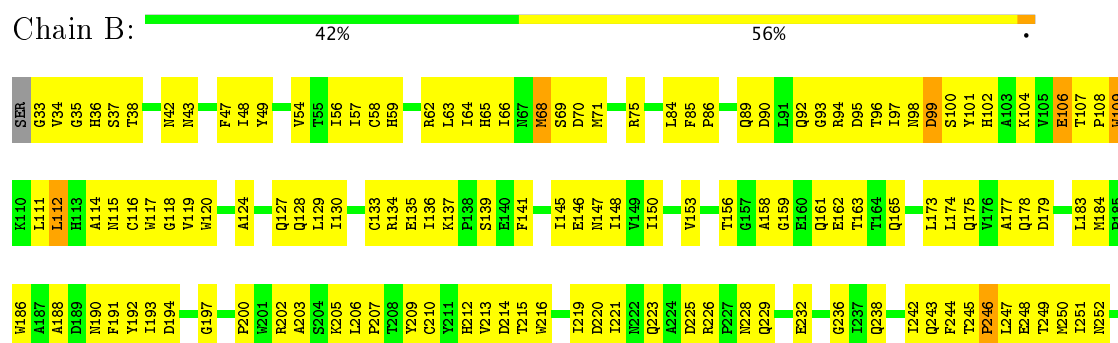
3 Residue-property plots

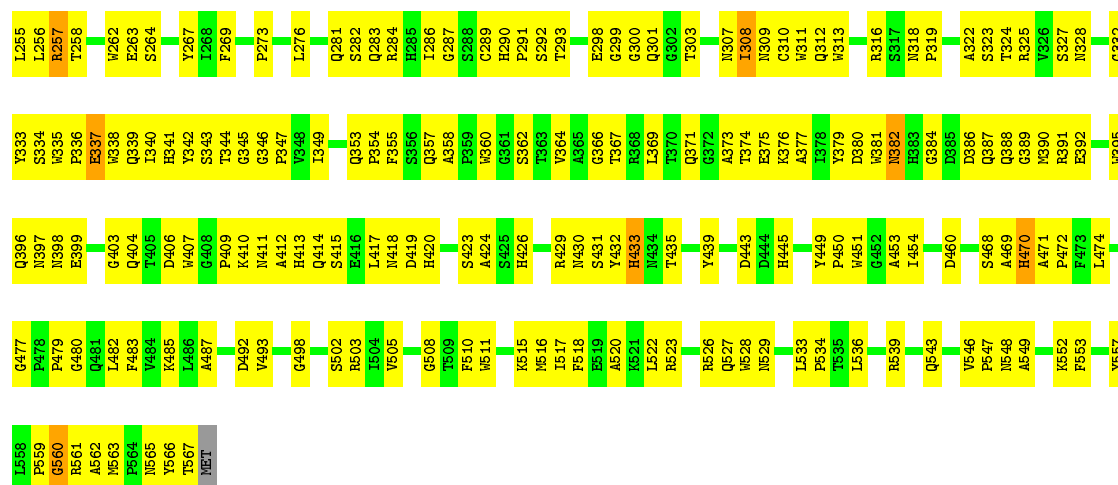
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according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

• Molecule 1: VP2



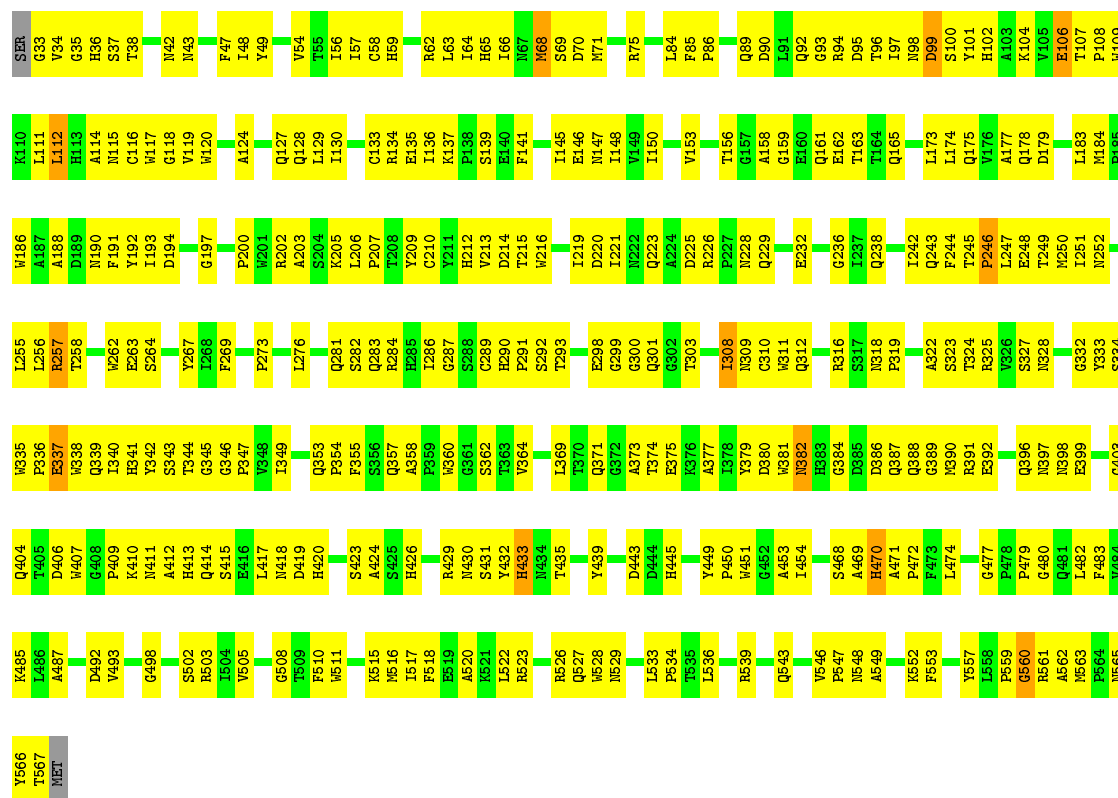
• Molecule 1: VP2





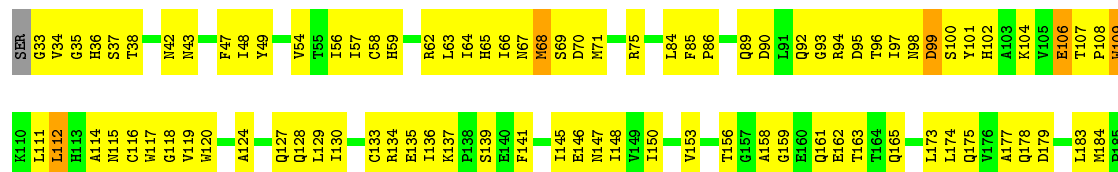
• Molecule 1: VP2

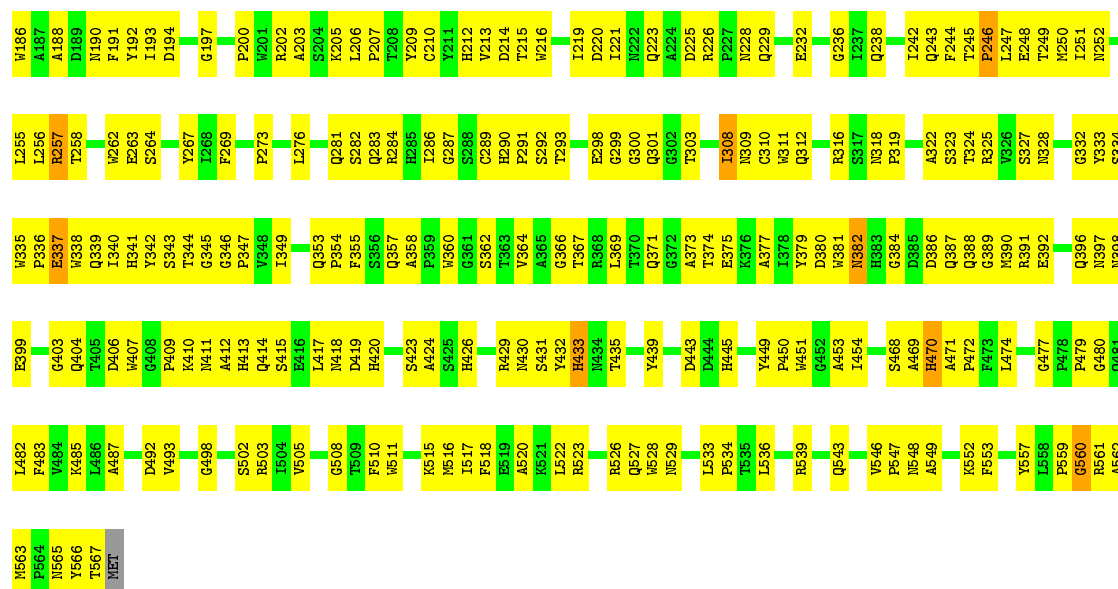
Chain C: 43% 55% .



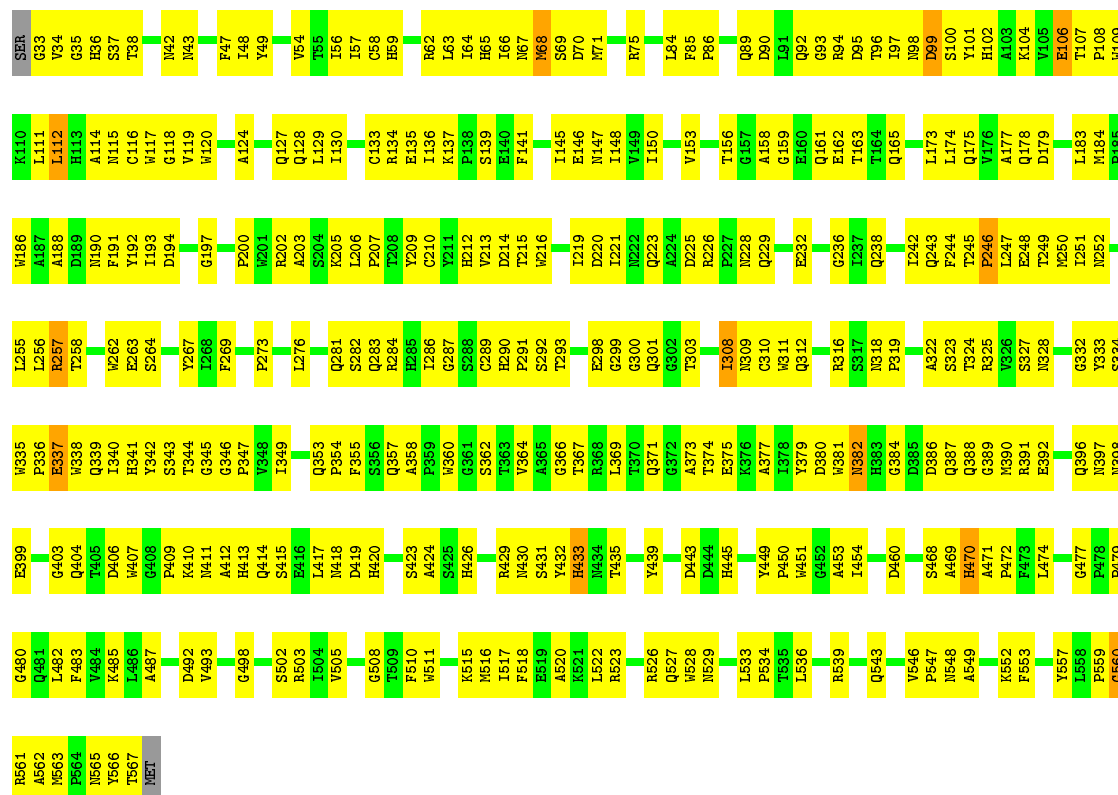
• Molecule 1: VP2

Chain D: 42% 55% .





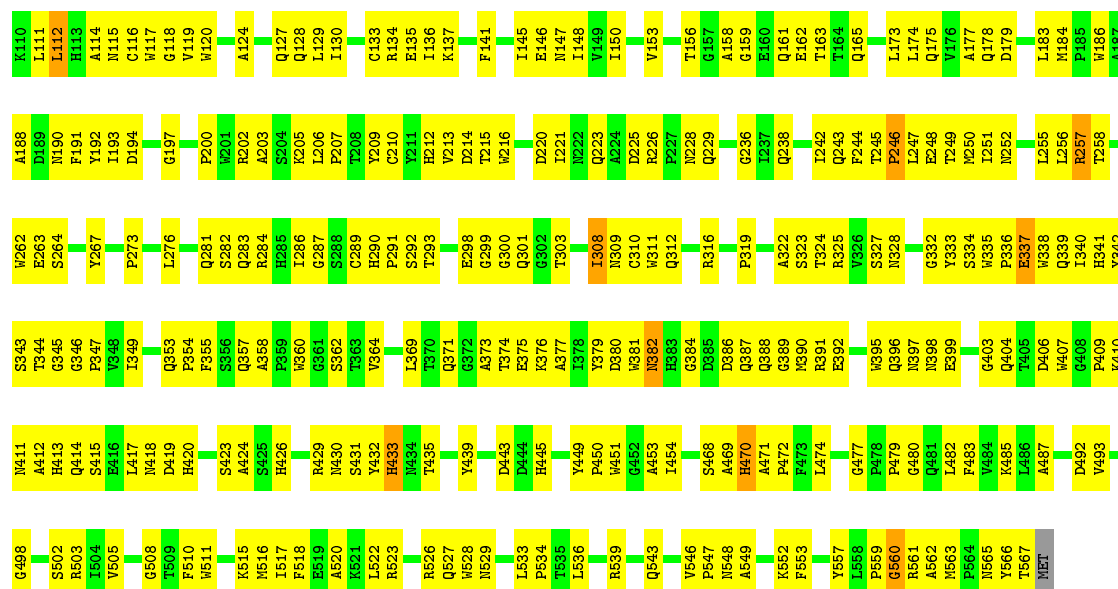
Chain E: 42% 55%



• Molecule 1: VP2

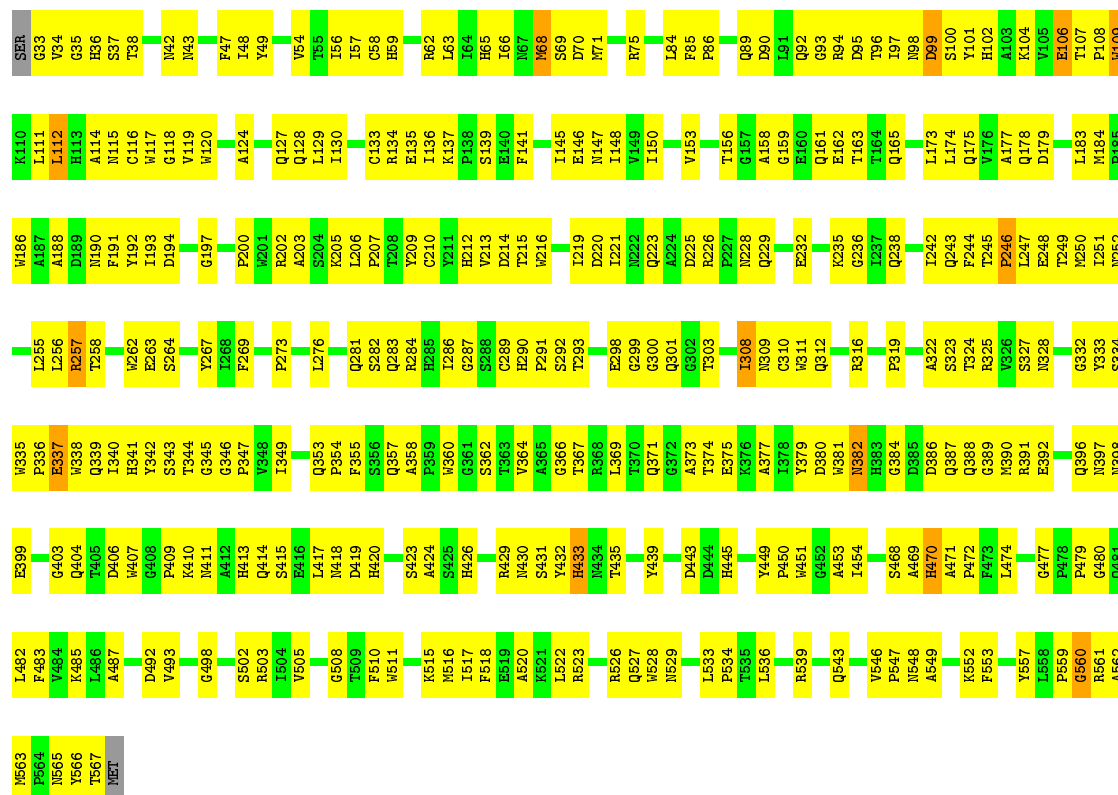
Chain F: 43% 54%





• Molecule 1: VP2

Chain G: 43% 54%



• Molecule 1: VP2

Chain H: 42% 55%

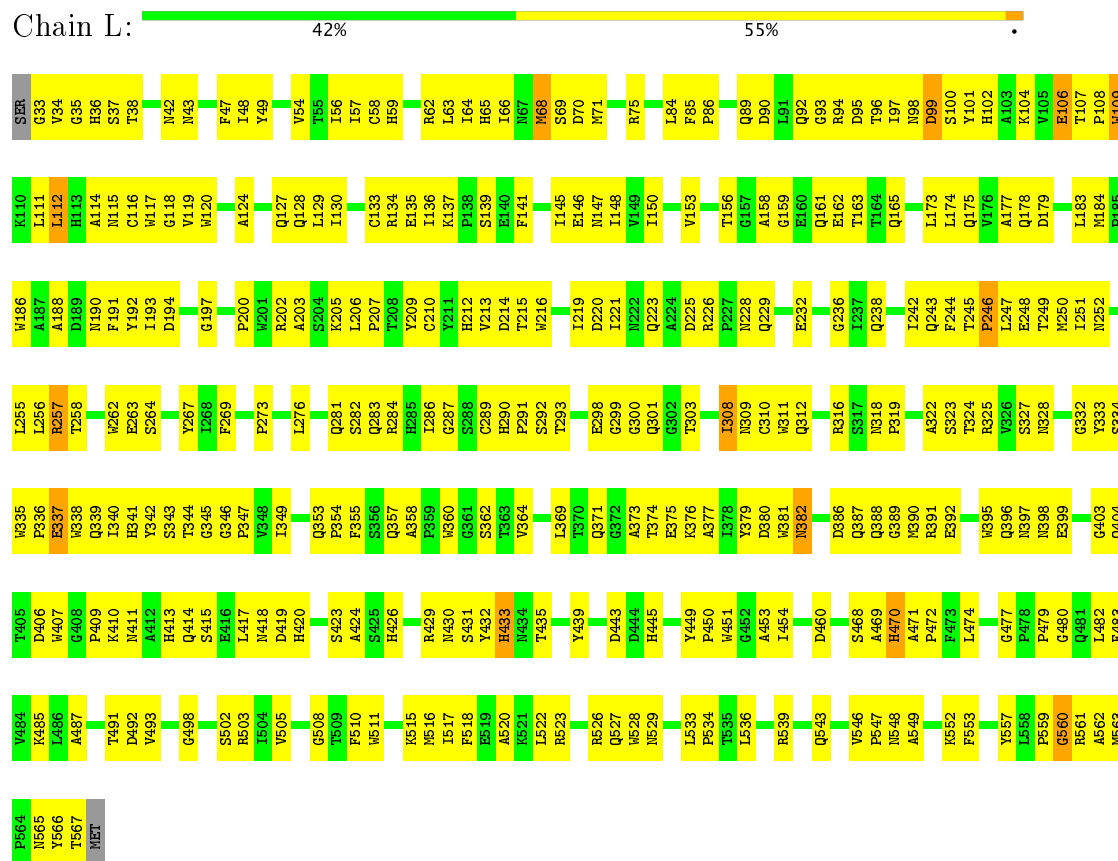


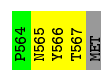
- Molecule 1: VP2

Chain K: 42% 55%

L482	E399	P336	L255	W186	K110	S8
P463	E337	E337	L256	A187	L111	G33
V484	G403	E338	R257	A188	L112	V34
V566	Q404	Q339	T258	D189	H113	G35
L486	W405	I240		N190	A114	H36
A487	D406	H341	W262	F191	M115	S37
	W407	V342	E263	I192	C116	T38
D492	G408	S343	S264	D194	M117	
V493	P409	T344			G118	M42
	K410	G345	Y267	G197	V119	M43
G498	M411	G346	T268		M120	
	A412	P347	F269			F47
S502	H413	V348		P200	A124	L48
R503	Q414	I349	P273	W201	G127	Y49
I504	A415			R202	Q128	
V505	E416		L276	A203	L129	V54
	L417	Q353	Q281	S204	I130	S56
G508	M418	F355	S282	K205		I57
T509	D419	S356	Q283	L206	C133	H59
F510	H420	Q357	R284	P207	R134	
W511		A358	Y208	E135	E135	
	S423	P359	E285	Y209	I136	R62
K515	A424	H360	L286	C210	T137	L63
M516	S425	G361	G287	T211	P138	I64
F518	H426	S362	S288	H212	S139	H65
E519	R429	T363	C289	V213	E140	I66
A520	M430	V364	E290	D214	T141	
F521	S431	A365	P291	T215		N67
L522	Y432	G366	S292	W216		M68
M523	H433	T367	T293		I145	S69
	A434	R368		L219	E146	D70
R526	T435	L369	E298	D220	M147	M71
Q527		G370	G299	I221	I148	
W528	Y439	Q371	G300	H222	V149	R75
M529		G372	Q301	Q223	I150	
	D443	A373	G302	A224		L34
L533	P444	T374	T303	D225	V153	F85
P534	H445	E375	R226	R227		P86
T535		K376	I308	P227	T156	
L536	Y449	A377	N309	N228	G157	Q89
	P450	Y379	C310	Q229	A158	D90
R539	W451	W381	W311	E232	G159	L91
	E452	N382	Q312		E160	Q92
Q543	A453	H383	R316	G236	G161	G93
	L454			I237	E162	R94
V546		G384	P319	Q238	T163	D95
P547	S468	S385			T164	T96
M548	A469	D386	A322	T242	Q165	N97
A549	H470	Q387	S323	Q243	L173	P98
	A471	Q388	T324	F244	L174	D99
K552	P472	G389	R325	T245	Q175	S100
F553	F473	M390	W326	P246	V176	I101
	L474	R391	S327	L247	A177	H102
		E392	N328	E248	Q178	A103
Y557	G477			T249	D179	K104
L558		W395	G332	M250	L183	O106
P559	P478	Q396	Y332	T251	T187	T107
S560	F479	S397	G334	N252	M184	F108
R561	G480	N397	L325		H185	P109
A562	S481					

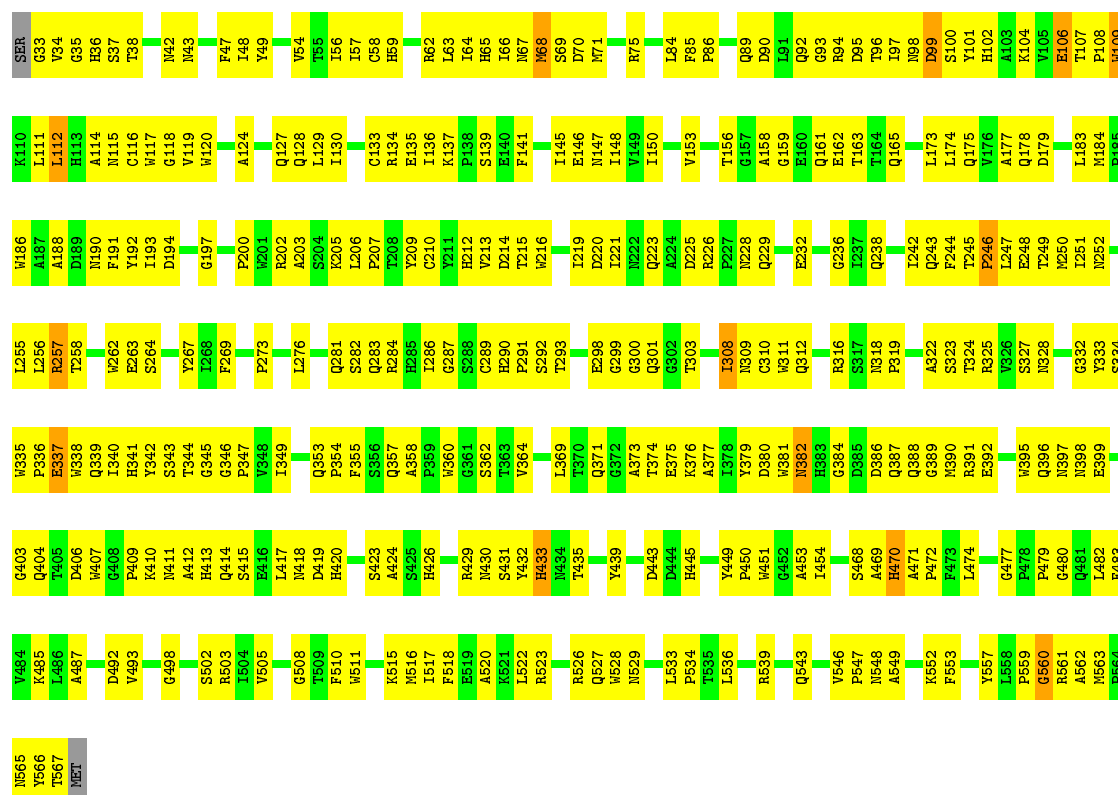
- Molecule 1: VP2





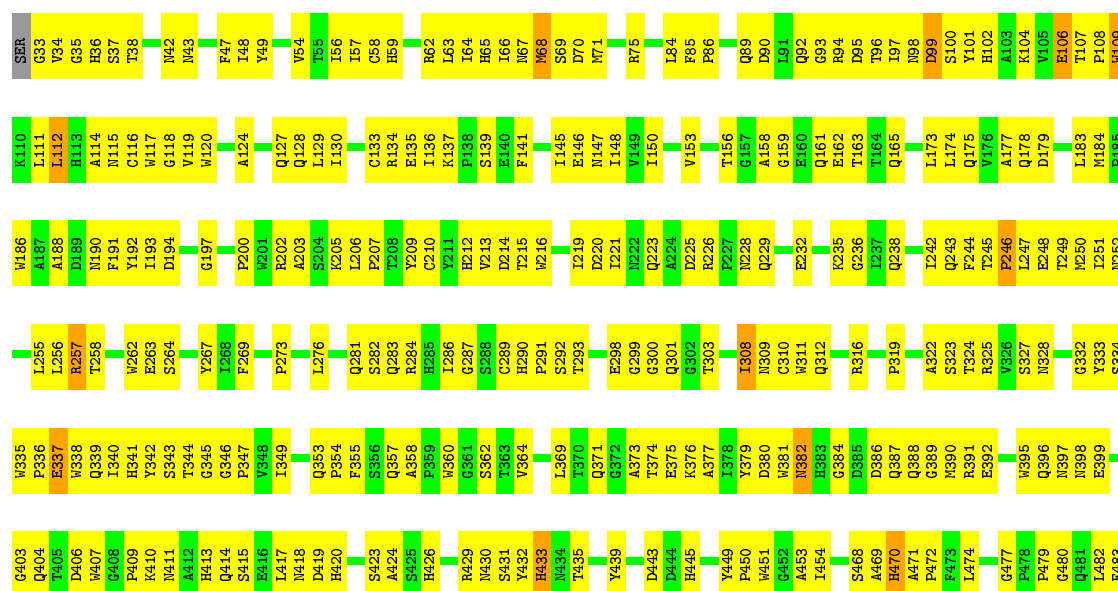
• Molecule 1: VP2

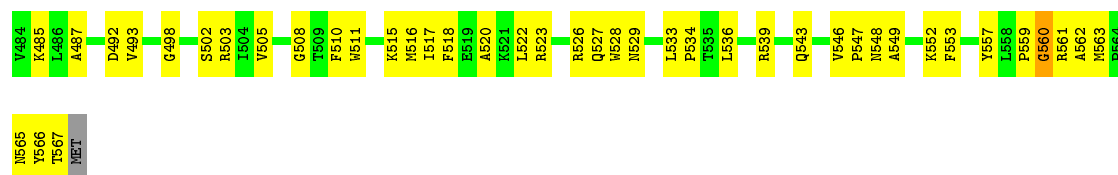
Chain N: 42% 55%



• Molecule 1: VP2

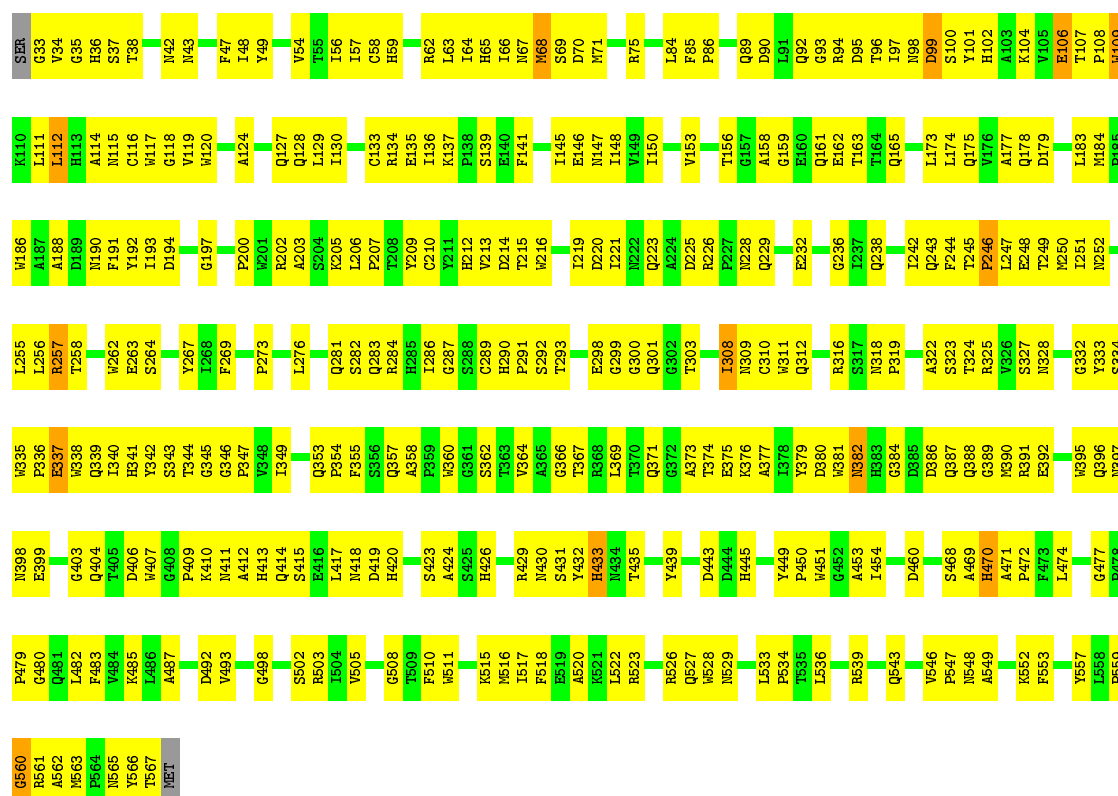
Chain O: 42% 55%





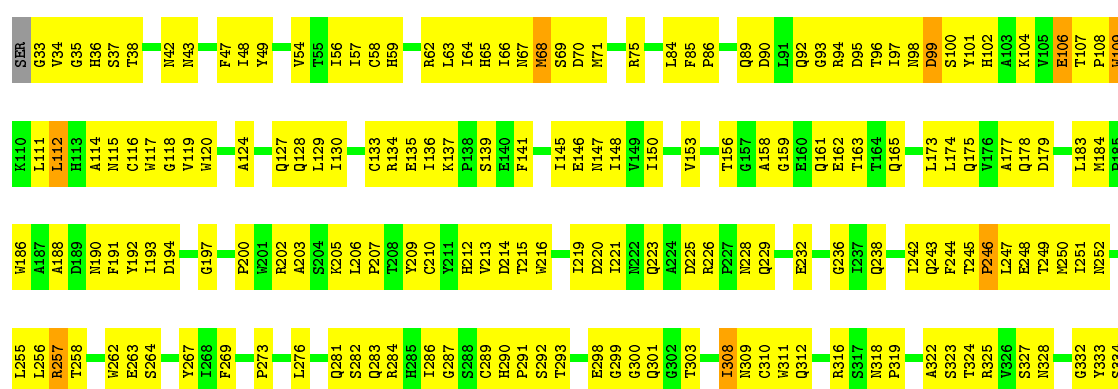
• Molecule 1: VP2

Chain P: 42% 55%

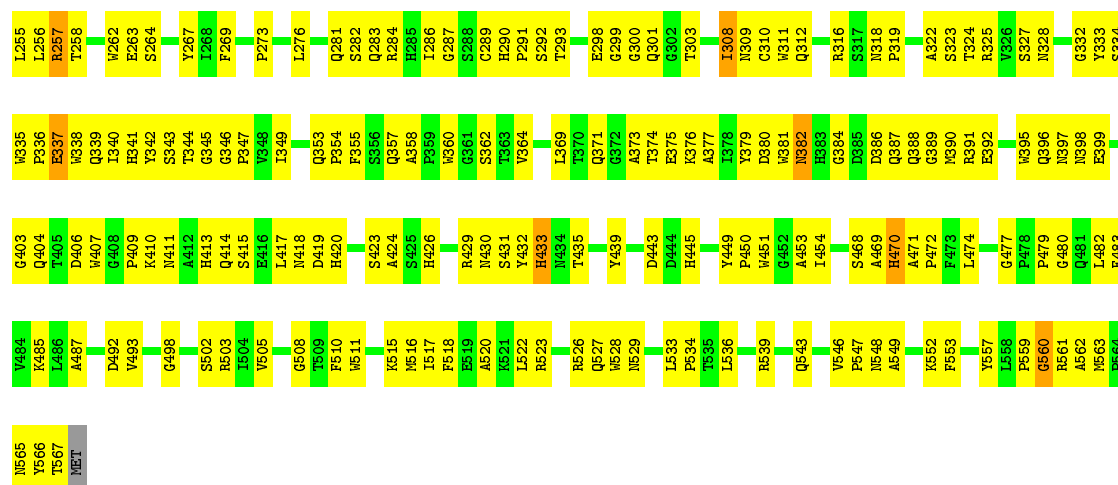


• Molecule 1: VP2

Chain Q: 42% 55%

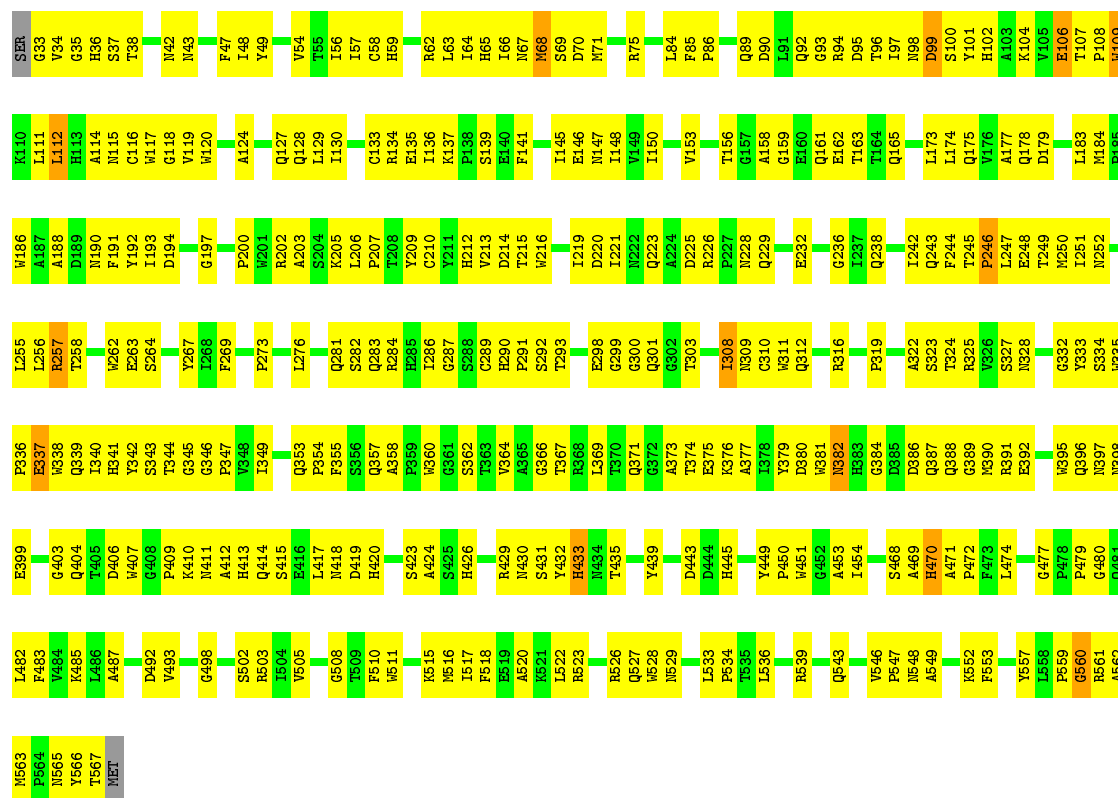






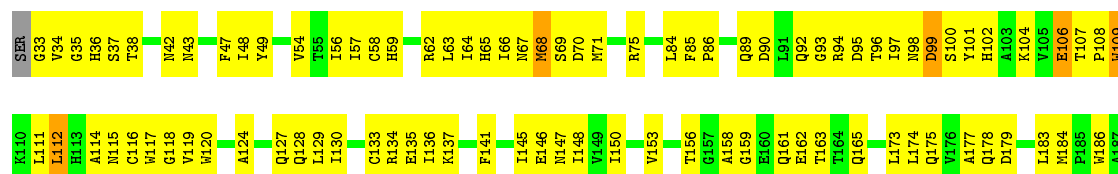
• Molecule 1: VP2

Chain T: 42% 55%

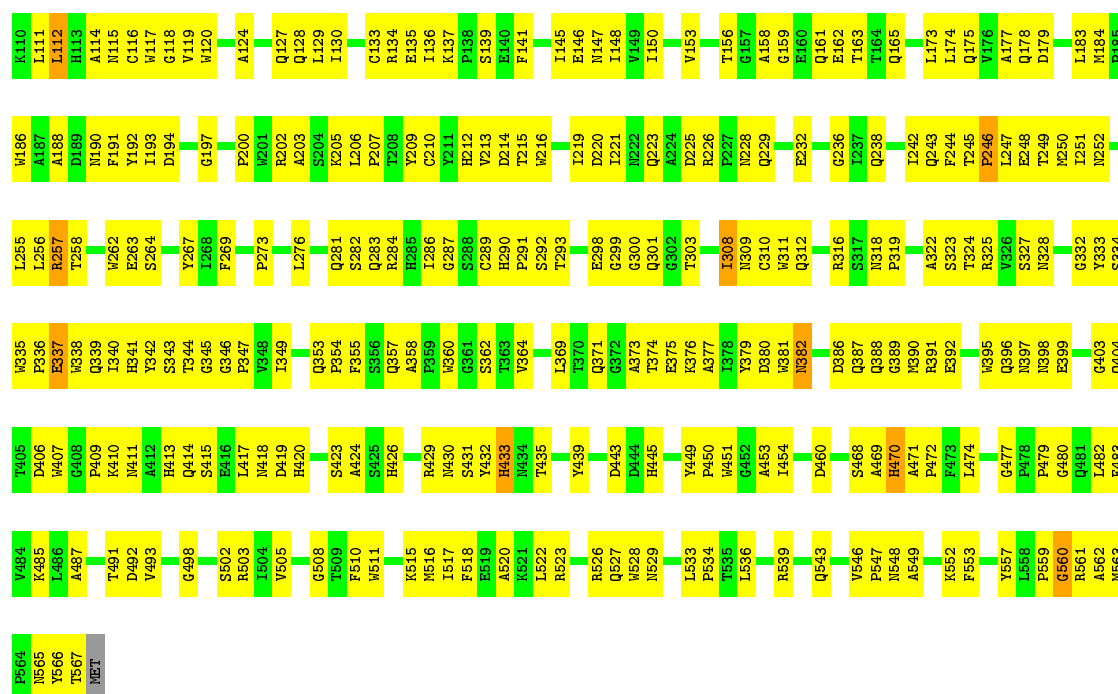


• Molecule 1: VP2

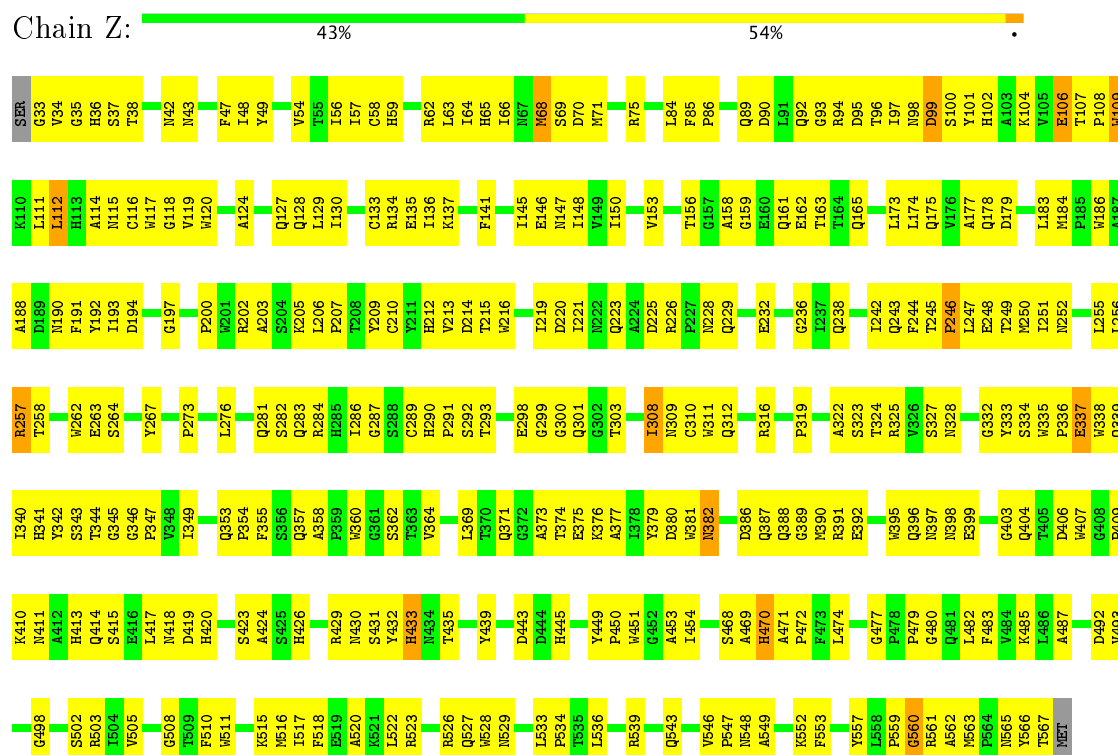
Chain U: 42% 55%



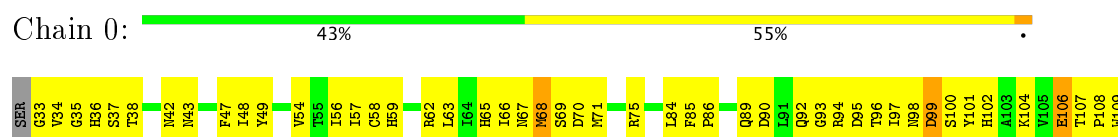
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R257	T258	W262	E263	S264	Y267	P273	L276	Q281	S282	Q283	R284	H285	I286	G287	S288	C289	H290	P291	S292	T293	E298	G299	G300	T301	W222	Q223	A224	D225	R226	N228	Q229	E232	G236	T237	Q238	T242	Q243	F244	T245	P246	N247	E248	T249	N250	T251	N252	P253	E257	G258	C259	H260	S261	T262	Y263	P264	Q265	R266	S267	T268	W269	P270	L271	Q272	S273	R274	H275	I276	G277	C278	H279	P280	S281	T282	W283	P284	Q285	R286	N287	Q288	T289	W290	P291	S292	T293	E294	G295	H296	P297	S298	T299	W300	P301	L302	Q303	R304	H305	I306	G307	C308	H309	P310	S311	T312	E313	G314	T315	W316	P317	Q318	R319	H320	I321	G322	C323	H324	P325	S326	T327	W328	P329	L330	Q331	R332	H333	I334	G335	C336	H337	P338	S339	T340	W341	P342	Q343	R344	H345	I346	G347	C348	H349	P350	S351	T352	W353	P354	Q355	R356	N357	Q358	T359	W360	P361	L362	Q363	R364	H365	I366	G367	C368	H369	P370	S371	T372	W373	P374	Q375	R376	N377	Q378	T379	W380	P381	L382	Q383	R384	H385	I386	G387	C388	H389	P390	S391	T392	W393	P394	Q395	R396	N397	Q398	T399	W400	P401	L402	Q403	R404	H405	I406	G407	C408	H409	P410	S411	T412	W413	P414	Q415	R416	N417	Q418	T419	W420	P421	L422	Q423	R424	H425	I426	G427	C428	H429	P430	S431	T432	W433	P434	Q435	R436	N437	Q438	T439	W440	P441	L442	Q443	R444	H445	I446	G447	C448	H449	P450	S451	T452	W453	P454	Q455	R456	N457	Q458	T459	W460	P461	L462	Q463	R464	H465	I466	G467	C468	H469	P470	S471	T472	W473	P474	Q475	R476	N477	Q478	T479	W480	P481	L482	Q483	R484	H485	I486	G487	C488	H489	P490	S491	T492	W493	P494	Q495	R496	N497	Q498	T499	W500	P501	L502	Q503	R504	H505	I506	G507	C508	H509	P510	S511	T512	W513	P514	Q515	R516	N517	Q518	T519	W520	P521	L522	Q523	R524	H525	I526	G527	C528	H529	P530	S531	T532	W533	P534	Q535	R536	N537	Q538	T539	W540	P541	L542	Q543	R544	H545	I546	G547	C548	H549	P550	S551	T552	W553	P554	Q555	R556	N557	Q558	T559	W560	P561	L562	Q563	R564	H565	I566	G567	C568	H569	P570	S571	T572	W573	P574	Q575	R576	N577	Q578	T579	W580	P581	L582	Q583	R584	H585	I586	G587	C588	H589	P590	S591	T592	W593	P594	Q595	R596	N597	Q598	T599	W600	P601	L602	Q603	R604	H605	I606	G607	C608	H609	P610	S611	T612	W613	P614	Q615	R616	N617	Q618	T619	W620	P621	L622	Q623	R624	H625	I626	G627	C628	H629	P630	S631	T632	W633	P634	Q635	R636	N637	Q638	T639	W640	P641	L642	Q643	R644	H645	I646	G647	C648	H649	P650	S651	T652	W653	P654	Q655	R656	N657	Q658	T659	W660	P661	L662	Q663	R664	H665	I666	G667	C668	H669	P670	S671	T672	W673	P674	Q675	R676	N677	Q678	T679	W680	P681	L682	Q683	R684	H685	I686	G687	C688	H689	P690	S691	T692	W693	P694	Q695	R696	N697	Q698	T699	W700	P701	L702	Q703	R704	H705	I706	G707	C708	H709	P710	S711	T712	W713	P714	Q715	R716	N717	Q718	T719	W720	P721	L722	Q723	R724	H725	I726	G727	C728	H729	P730	S731	T732	W733	P734	Q735	R736	N737	Q738	T739	W740	P741	L742	Q743	R744	H745	I746	G747	C748	H749	P750	S751	T752	W753	P754	Q755	R756	N757	Q758	T759	W760	P761	L762	Q763	R764	H765	I766	G767	C768	H769	P770	S771	T772	W773	P774	Q775	R776	N777	Q778	T779	W780	P781	L782	Q783	R784	H785	I786	G787	C788	H789	P790	S791	T792	W793	P794	Q795	R796	N797	Q798	T799	W800	P801	L802	Q803	R804	H805	I806	G807	C808	H809	P810	S811	T812	W813	P814	Q815	R816	N817	Q818	T819	W820	P821	L822	Q823	R824	H825	I826	G827	C828	H829	P830	S831	T832	W833	P834	Q835	R836	N837	Q838	T839	W840	P841	L842	Q843	R844	H845	I846	G847	C848	H849	P850	S851	T852	W853	P854	Q855	R856	N857	Q858	T859	W860	P861	L862	Q863	R864	H865	I866	G867	C868	H869	P870	S871	T872	W873	P874	Q875	R876	N877	Q878	T879	W880	P881	L882	Q883	R884	H885	I886	G887	C888	H889	P890	S891	T892	W893	P894	Q895	R896	N897	Q898	T899	W900	P901	L902	Q903	R904	H905	I906	G907	C908	H909	P910	S911	T912	W913	P914	Q915	R916	N917	Q918	T919	W920	P921	L922	Q923	R924	H925	I926	G927	C928	H929	P930	S931	T932	W933	P934	Q935	R936	N937	Q938	T939	W940	P941	L942	Q943	R944	H945	I946	G947	C948	H949	P950	S951	T952	W953	P954	Q955	R956	N957	Q958	T959	W960	P961	L962	Q963	R964	H965	I966	G967	C968	H969	P970	S971	T972	W973	P974	Q975	R976	N977	Q978	T979	W980	P981	L982	Q983	R984	H985	I986	G987	C988	H989	P990	S991	T992	W993	P994	Q995	R996	N997	Q998	T999	W1000	P1001	L1002	Q1003	R1004	H1005	I1006	G1007	C1008	H1009	P1010	S1011	T1012	W1013	P1014	Q1015	R1016	N1017	Q1018	T1019	W1020	P1021	L1022	Q1023	R1024	H1025	I1026	G1027	C1028	H1029	P1030	S1031	T1032	W1033	P1034	Q1035	R1036	N1037	Q1038	T1039	W1040	P1041	L1042	Q1043	R1044	H1045	I1046	G1047	C1048	H1049	P1050	S1051	T1052	W1053	P1054	Q1055	R1056	N1057	Q1058	T1059	W1060	P1061	L1062	Q1063	R1064	H1065	I1066	G1067	C1068	H1069	P1070	S1071	T1072	W1073	P1074	Q1075	R1076	N1077	Q1078	T1079	W1080	P1081	L1082	Q1083	R1084	H1085	I1086	G1087	C1088	H1089	P1090	S1091	T1092	W1093	P1094	Q1095	R1096	N1097	Q1098	T1099	W1100	P1101	L1102	Q1103	R1104	H1105	I1106	G1107	C1108	H1109	P1110	S1111	T1112	W1113	P1114	Q1115	R1116	N1117	Q1118	T1119	W1120	P1121	L1122	Q1123	R1124	H1125	I1126	G1127	C1128	H1129	P1130	S1131	T1132	W1133	P1134	Q1135	R1136	N1137	Q1138	T1139	W1140	P1141	L1142	Q1143	R1144	H1145	I1146	G1147	C1148	H1149	P1150	S1151	T1152	W1153	P1154	Q1155	R1156	N1157	Q1158	T1159	W1160	P1161	L1162	Q1163	R1164	H1165	I1166	G1167	C1168	H1169	P1170	S1171	T1172	W1173	P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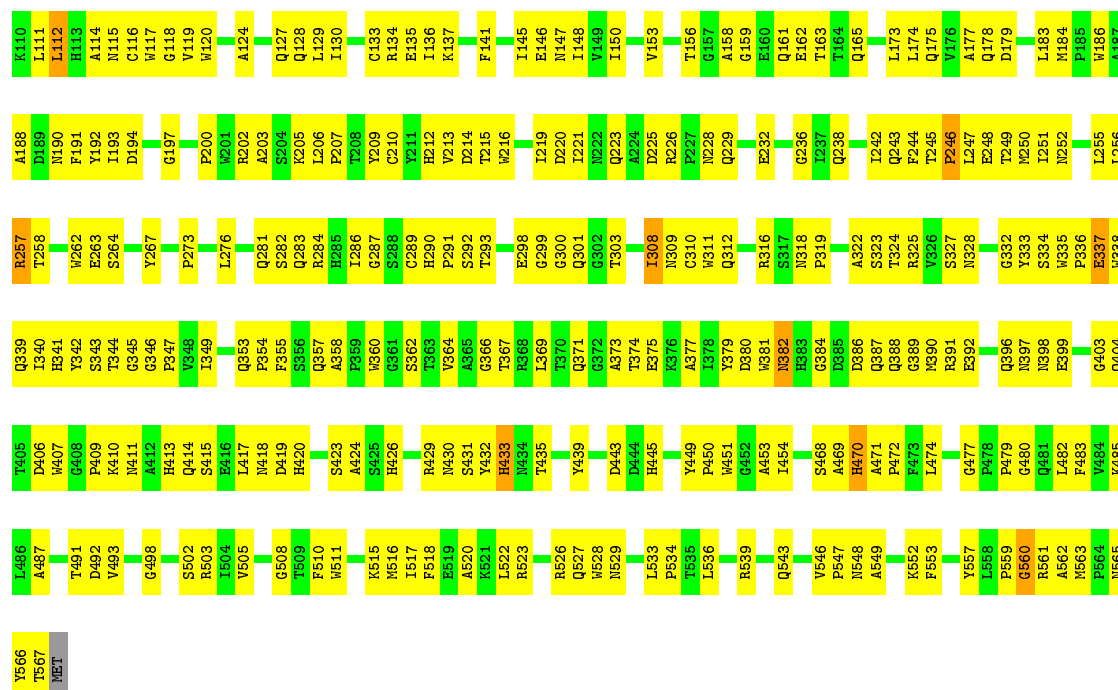


• Molecule 1: VP2



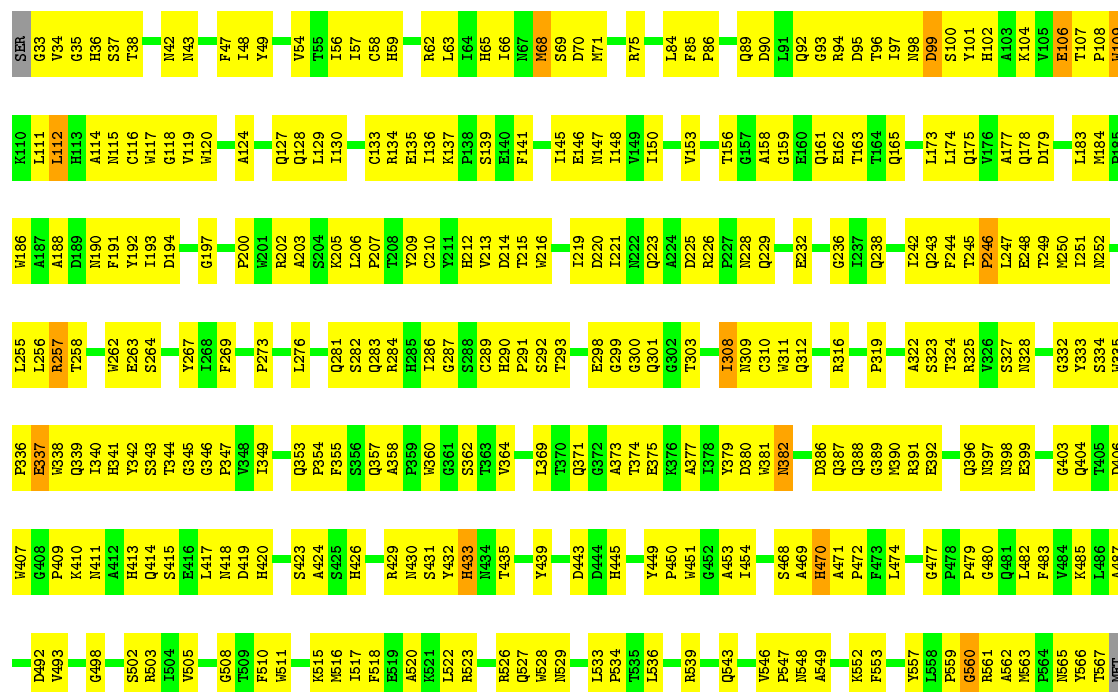
• Molecule 1: VP2





• Molecule 1: VP2

Chain 1: 44% 54%



• Molecule 1: VP2

Chain 2: 44% 54%



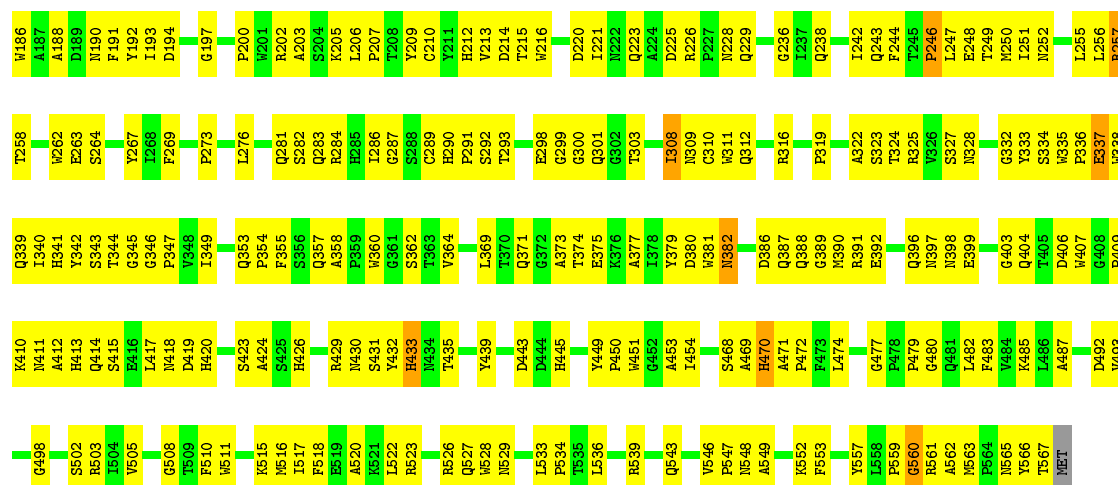


Response	Percentage
U.S. should take more action to reduce global warming	44%
U.S. should not take more action to reduce global warming	54%

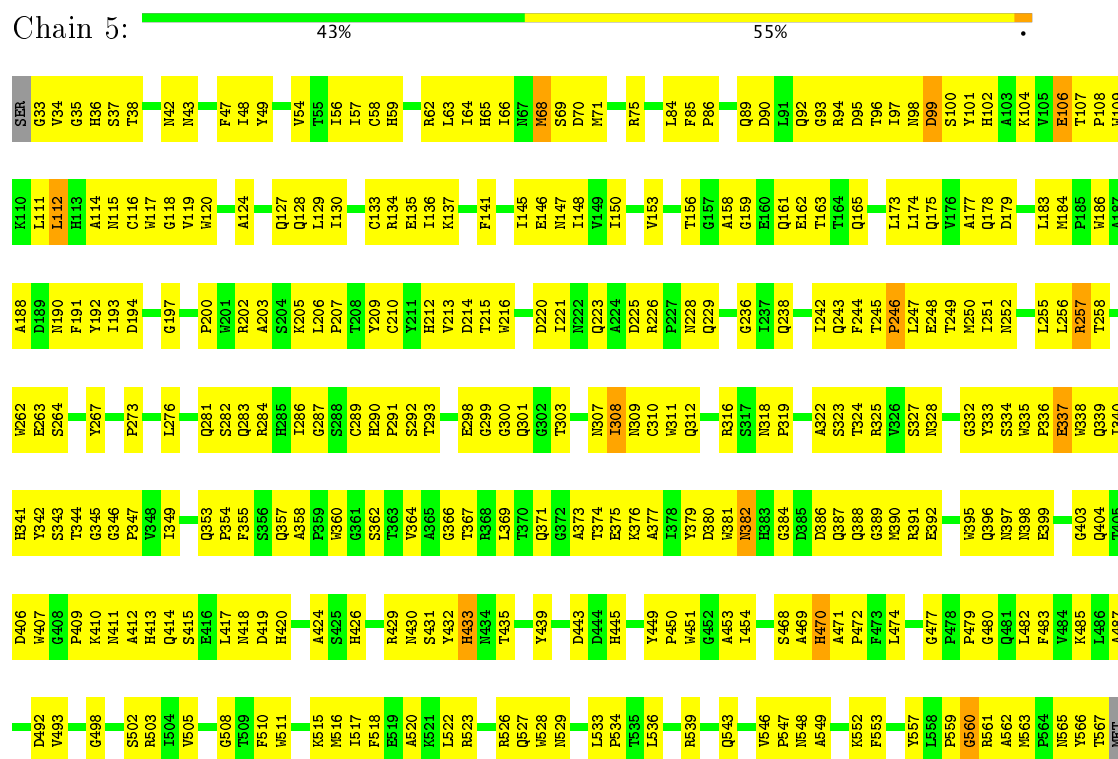


Response	Percentage
U.S. should take more action to reduce greenhouse gas emissions	44%
U.S. should take less action to reduce greenhouse gas emissions	54%

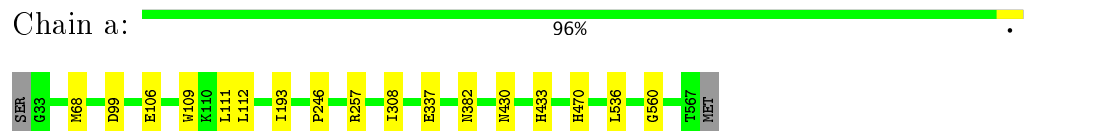




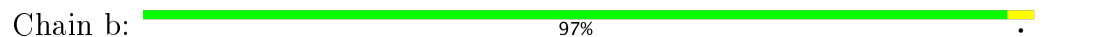
• Molecule 1: VP2



• Molecule 1: VP2



• Molecule 1: VP2





- Molecule 1: VP2

Chain c: 96%



- Molecule 1: VP2

Chain d: 96%



- Molecule 1: VP2

Chain e: 96%



- Molecule 1: VP2

Chain f: 96%



- Molecule 1: VP2

Chain g: 96%



- Molecule 1: VP2

Chain h: 97%



- Molecule 1: VP2

Chain i: 97%



• Molecule 1: VP2

Chain j:  97%

• Molecule 1: VP2

Chain k:  96%

• Molecule 1: VP2

Chain l:  96%

• Molecule 1: VP2

Chain m:  96%

• Molecule 1: VP2

Chain n:  97%

• Molecule 1: VP2

Chain o:  96%

• Molecule 1: VP2

Chain p:  97%

• Molecule 1: VP2

Chain q:  96%



- Molecule 1: VP2

Chain r:  97%



- Molecule 1: VP2

Chain s:  96%



- Molecule 1: VP2

Chain t:  96%



- Molecule 1: VP2

Chain u:  96%



- Molecule 1: VP2

Chain v:  97%



- Molecule 1: VP2

Chain w:  96%



- Molecule 1: VP2

Chain x:  96%



- Molecule 1: VP2

Chain y:  97%



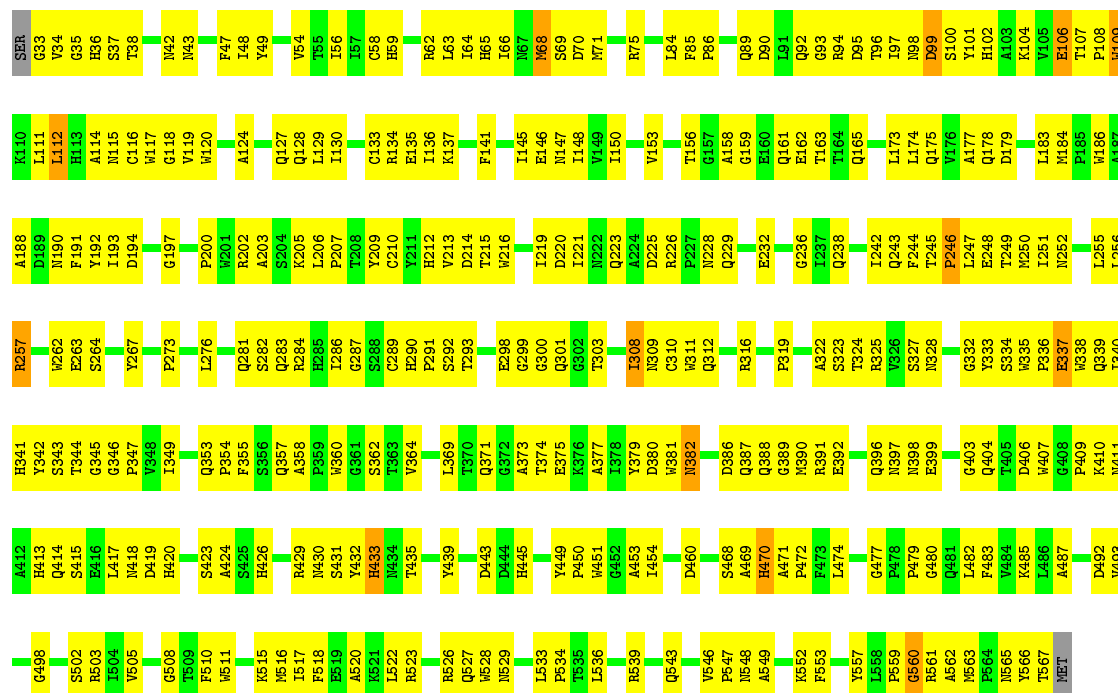
• Molecule 1: VP2

Chain z:  96%



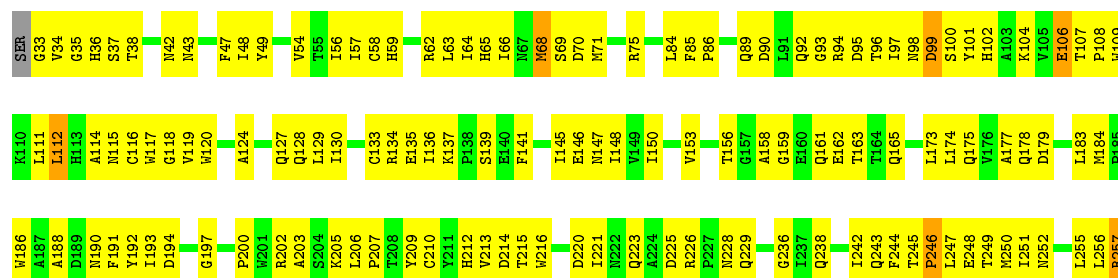
• Molecule 1: VP2

Chain 6:  44% 53%



• Molecule 1: VP2

Chain 7:  43% 54%



ME1	A487	D406	W338	T258
	D492	W407	Q339	
	V493	G408	I340	W262
		P409	H341	E263
	G498	K410	Y342	S264
		N411	S343	
	S502	A412	T344	Y267
	R503	H413	G345	L268
	I504	Q414	G346	F269
	V505	S415	P347	
		E416	V348	P273
	G508	L417	I349	
	T509	N418		L276
	W510	D419	Q353	
	W511	H420	P354	Q281
			F355	S282
	K515	S423	S356	Q283
	M516	A424	Q357	R284
	I517	S425	A358	H285
	F518	H426	F359	L286
	E519		W360	G287
	A520	R429	G361	S288
	R521	N430	S362	C289
	L522	S431	T363	H290
	R523	Y432	V364	P291
		H433	A365	S292
	R526	N434	G366	T293
	Q527	T435	T367	
	W528		R368	E298
	N529	Y439	L369	G299
			T370	G300
	L533	D443	Q371	Q301
	P534	D444	G372	G302
	T535	H445	A373	T303
	L536		T374	
	R539	Y449	E375	I308
		P450	K376	N309
		W451	A377	C310
	Q543	G452	I378	W311
		A453	Y379	Q312
	V546	I454	D380	
	P547		W381	R316
	N548	S468	N382	S317
	A549	A469		N318
		H470	D386	F319
	K552	A471	Q387	
	F553	P472	Q388	A322
		F473	G389	S323
	Y557	L474	M390	T324
	L558		R391	R325
	P559	G477	E392	V326
	G560	P478		S327
	R561	P479	Q396	N328
	A562	G480	N397	
	M563	Q481	N398	G332
	F564	L482	E399	Y333
	N565	F483		S334
	Y566	W484	G403	W335
	T567	K485	Q404	P336
			T405	E337

4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of particles used	7564	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	57	Depositor
Minimum defocus (nm)	Not provided	Depositor
Maximum defocus (nm)	Not provided	Depositor
Magnification	Not provided	Depositor
Image detector	DIRECT ELECTRON DE-20 (5k x 3k)	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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 >2	RMSZ	# Z >2
1	0	0.52	0/4472	0.65	3/6114 (0.0%)
1	1	0.52	0/4472	0.65	3/6114 (0.0%)
1	2	0.52	0/4472	0.65	3/6114 (0.0%)
1	3	0.52	0/4472	0.65	3/6114 (0.0%)
1	4	0.52	0/4472	0.65	3/6114 (0.0%)
1	5	0.52	0/4472	0.65	3/6114 (0.0%)
1	6	0.52	0/4472	0.65	3/6114 (0.0%)
1	7	0.52	0/4472	0.65	3/6114 (0.0%)
1	A	0.52	0/4472	0.65	3/6114 (0.0%)
1	B	0.52	0/4472	0.65	3/6114 (0.0%)
1	C	0.52	0/4472	0.65	3/6114 (0.0%)
1	D	0.52	0/4472	0.65	3/6114 (0.0%)
1	E	0.52	0/4472	0.65	3/6114 (0.0%)
1	F	0.52	0/4472	0.65	3/6114 (0.0%)
1	G	0.52	0/4472	0.65	3/6114 (0.0%)
1	H	0.52	0/4472	0.65	3/6114 (0.0%)
1	I	0.52	0/4472	0.65	3/6114 (0.0%)
1	J	0.52	0/4472	0.65	3/6114 (0.0%)
1	K	0.52	0/4472	0.65	3/6114 (0.0%)
1	L	0.52	0/4472	0.65	3/6114 (0.0%)
1	M	0.52	0/4472	0.65	3/6114 (0.0%)
1	N	0.52	0/4472	0.65	3/6114 (0.0%)
1	O	0.52	0/4472	0.65	3/6114 (0.0%)
1	P	0.52	0/4472	0.65	3/6114 (0.0%)
1	Q	0.52	0/4472	0.65	3/6114 (0.0%)
1	R	0.52	0/4472	0.65	3/6114 (0.0%)
1	S	0.52	0/4472	0.65	3/6114 (0.0%)
1	T	0.52	0/4472	0.65	3/6114 (0.0%)
1	U	0.52	0/4472	0.65	3/6114 (0.0%)
1	V	0.52	0/4472	0.65	3/6114 (0.0%)
1	W	0.52	0/4472	0.65	3/6114 (0.0%)
1	X	0.52	0/4472	0.65	3/6114 (0.0%)
1	Y	0.52	0/4472	0.65	3/6114 (0.0%)
1	Z	0.52	0/4472	0.65	3/6114 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
1	a	0.52	0/4472	0.65	3/6114 (0.0%)
1	b	0.52	0/4472	0.65	3/6114 (0.0%)
1	c	0.52	0/4472	0.65	3/6114 (0.0%)
1	d	0.52	0/4472	0.65	3/6114 (0.0%)
1	e	0.52	0/4472	0.65	3/6114 (0.0%)
1	f	0.52	0/4472	0.65	3/6114 (0.0%)
1	g	0.52	0/4472	0.65	3/6114 (0.0%)
1	h	0.52	0/4472	0.65	3/6114 (0.0%)
1	i	0.52	0/4472	0.65	3/6114 (0.0%)
1	j	0.52	0/4472	0.65	3/6114 (0.0%)
1	k	0.52	0/4472	0.65	3/6114 (0.0%)
1	l	0.52	0/4472	0.65	3/6114 (0.0%)
1	m	0.52	0/4472	0.65	3/6114 (0.0%)
1	n	0.52	0/4472	0.65	3/6114 (0.0%)
1	o	0.52	0/4472	0.65	3/6114 (0.0%)
1	p	0.52	0/4472	0.65	3/6114 (0.0%)
1	q	0.52	0/4472	0.65	3/6114 (0.0%)
1	r	0.52	0/4472	0.65	3/6114 (0.0%)
1	s	0.52	0/4472	0.65	3/6114 (0.0%)
1	t	0.52	0/4472	0.65	3/6114 (0.0%)
1	u	0.52	0/4472	0.65	3/6114 (0.0%)
1	v	0.52	0/4472	0.65	3/6114 (0.0%)
1	w	0.52	0/4472	0.65	3/6114 (0.0%)
1	x	0.52	0/4472	0.65	3/6114 (0.0%)
1	y	0.52	0/4472	0.65	3/6114 (0.0%)
1	z	0.52	0/4472	0.65	3/6114 (0.0%)
All	All	0.52	0/268320	0.65	180/366840 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0	0	2
1	1	0	2
1	2	0	2
1	3	0	2
1	4	0	2
1	5	0	2
1	6	0	2
1	7	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	2
1	C	0	2
1	D	0	2
1	E	0	2
1	F	0	2
1	G	0	2
1	H	0	2
1	I	0	2
1	J	0	2
1	K	0	2
1	L	0	2
1	M	0	2
1	N	0	2
1	O	0	2
1	P	0	2
1	Q	0	2
1	R	0	2
1	S	0	2
1	T	0	2
1	U	0	2
1	V	0	2
1	W	0	2
1	X	0	2
1	Y	0	2
1	Z	0	2
1	a	0	2
1	b	0	2
1	c	0	2
1	d	0	2
1	e	0	2
1	f	0	2
1	g	0	2
1	h	0	2
1	i	0	2
1	j	0	2
1	k	0	2
1	l	0	2
1	m	0	2
1	n	0	2
1	o	0	2
1	p	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	q	0	2
1	r	0	2
1	s	0	2
1	t	0	2
1	u	0	2
1	v	0	2
1	w	0	2
1	x	0	2
1	y	0	2
1	z	0	2
All	All	0	120

There are no bond length outliers.

All (180) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	560	GLY	N-CA-C	5.99	128.06	113.10
1	g	560	GLY	N-CA-C	5.99	128.06	113.10
1	h	560	GLY	N-CA-C	5.99	128.06	113.10
1	l	560	GLY	N-CA-C	5.99	128.06	113.10
1	x	560	GLY	N-CA-C	5.99	128.06	113.10
1	P	560	GLY	N-CA-C	5.98	128.06	113.10
1	Q	560	GLY	N-CA-C	5.98	128.06	113.10
1	f	560	GLY	N-CA-C	5.98	128.06	113.10
1	t	560	GLY	N-CA-C	5.98	128.06	113.10
1	v	560	GLY	N-CA-C	5.98	128.06	113.10
1	D	560	GLY	N-CA-C	5.98	128.06	113.10
1	K	560	GLY	N-CA-C	5.98	128.06	113.10
1	0	560	GLY	N-CA-C	5.98	128.06	113.10
1	q	560	GLY	N-CA-C	5.98	128.06	113.10
1	H	560	GLY	N-CA-C	5.98	128.05	113.10
1	c	560	GLY	N-CA-C	5.98	128.05	113.10
1	m	560	GLY	N-CA-C	5.98	128.05	113.10
1	b	560	GLY	N-CA-C	5.98	128.05	113.10
1	T	560	GLY	N-CA-C	5.98	128.04	113.10
1	V	560	GLY	N-CA-C	5.98	128.04	113.10
1	W	560	GLY	N-CA-C	5.98	128.04	113.10
1	5	560	GLY	N-CA-C	5.98	128.04	113.10
1	C	560	GLY	N-CA-C	5.98	128.04	113.10
1	E	560	GLY	N-CA-C	5.98	128.04	113.10
1	L	560	GLY	N-CA-C	5.98	128.04	113.10
1	M	560	GLY	N-CA-C	5.98	128.04	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	560	GLY	N-CA-C	5.98	128.04	113.10
1	O	560	GLY	N-CA-C	5.98	128.04	113.10
1	R	560	GLY	N-CA-C	5.98	128.04	113.10
1	k	560	GLY	N-CA-C	5.98	128.04	113.10
1	n	560	GLY	N-CA-C	5.98	128.04	113.10
1	p	560	GLY	N-CA-C	5.98	128.04	113.10
1	y	560	GLY	N-CA-C	5.98	128.04	113.10
1	6	560	GLY	N-CA-C	5.98	128.04	113.10
1	G	560	GLY	N-CA-C	5.97	128.03	113.10
1	Z	560	GLY	N-CA-C	5.97	128.03	113.10
1	3	560	GLY	N-CA-C	5.97	128.04	113.10
1	A	560	GLY	N-CA-C	5.97	128.03	113.10
1	l	560	GLY	N-CA-C	5.97	128.03	113.10
1	i	560	GLY	N-CA-C	5.97	128.02	113.10
1	j	560	GLY	N-CA-C	5.97	128.02	113.10
1	s	560	GLY	N-CA-C	5.97	128.02	113.10
1	u	560	GLY	N-CA-C	5.97	128.02	113.10
1	d	560	GLY	N-CA-C	5.97	128.02	113.10
1	B	560	GLY	N-CA-C	5.97	128.01	113.10
1	J	560	GLY	N-CA-C	5.97	128.02	113.10
1	U	560	GLY	N-CA-C	5.97	128.02	113.10
1	w	560	GLY	N-CA-C	5.97	128.02	113.10
1	z	560	GLY	N-CA-C	5.97	128.02	113.10
1	Y	560	GLY	N-CA-C	5.96	128.01	113.10
1	2	560	GLY	N-CA-C	5.96	128.00	113.10
1	e	560	GLY	N-CA-C	5.96	128.00	113.10
1	a	560	GLY	N-CA-C	5.96	128.00	113.10
1	o	560	GLY	N-CA-C	5.96	128.00	113.10
1	X	560	GLY	N-CA-C	5.96	127.99	113.10
1	7	560	GLY	N-CA-C	5.96	127.99	113.10
1	4	560	GLY	N-CA-C	5.96	127.99	113.10
1	r	560	GLY	N-CA-C	5.96	127.99	113.10
1	I	560	GLY	N-CA-C	5.95	127.99	113.10
1	S	560	GLY	N-CA-C	5.95	127.98	113.10
1	C	246	PRO	N-CA-C	-5.79	97.06	112.10
1	Q	246	PRO	N-CA-C	-5.79	97.06	112.10
1	Z	246	PRO	N-CA-C	-5.79	97.06	112.10
1	n	246	PRO	N-CA-C	-5.79	97.06	112.10
1	y	246	PRO	N-CA-C	-5.79	97.06	112.10
1	I	246	PRO	N-CA-C	-5.78	97.06	112.10
1	P	246	PRO	N-CA-C	-5.78	97.06	112.10
1	5	246	PRO	N-CA-C	-5.78	97.06	112.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	246	PRO	N-CA-C	-5.78	97.07	112.10
1	0	246	PRO	N-CA-C	-5.78	97.07	112.10
1	s	246	PRO	N-CA-C	-5.78	97.07	112.10
1	F	246	PRO	N-CA-C	-5.78	97.07	112.10
1	U	246	PRO	N-CA-C	-5.78	97.07	112.10
1	c	246	PRO	N-CA-C	-5.78	97.07	112.10
1	p	246	PRO	N-CA-C	-5.78	97.07	112.10
1	B	246	PRO	N-CA-C	-5.78	97.07	112.10
1	K	246	PRO	N-CA-C	-5.78	97.08	112.10
1	l	246	PRO	N-CA-C	-5.78	97.07	112.10
1	4	246	PRO	N-CA-C	-5.78	97.08	112.10
1	b	246	PRO	N-CA-C	-5.78	97.07	112.10
1	q	246	PRO	N-CA-C	-5.78	97.08	112.10
1	x	246	PRO	N-CA-C	-5.78	97.07	112.10
1	E	246	PRO	N-CA-C	-5.78	97.08	112.10
1	w	246	PRO	N-CA-C	-5.78	97.08	112.10
1	G	246	PRO	N-CA-C	-5.78	97.08	112.10
1	W	246	PRO	N-CA-C	-5.77	97.09	112.10
1	A	246	PRO	N-CA-C	-5.77	97.09	112.10
1	M	246	PRO	N-CA-C	-5.77	97.09	112.10
1	2	246	PRO	N-CA-C	-5.77	97.09	112.10
1	h	246	PRO	N-CA-C	-5.77	97.09	112.10
1	i	246	PRO	N-CA-C	-5.77	97.09	112.10
1	k	246	PRO	N-CA-C	-5.77	97.09	112.10
1	u	246	PRO	N-CA-C	-5.77	97.09	112.10
1	v	246	PRO	N-CA-C	-5.77	97.09	112.10
1	6	246	PRO	N-CA-C	-5.77	97.09	112.10
1	X	246	PRO	N-CA-C	-5.77	97.10	112.10
1	3	246	PRO	N-CA-C	-5.77	97.09	112.10
1	J	246	PRO	N-CA-C	-5.77	97.10	112.10
1	N	246	PRO	N-CA-C	-5.77	97.10	112.10
1	T	246	PRO	N-CA-C	-5.77	97.10	112.10
1	R	246	PRO	N-CA-C	-5.77	97.11	112.10
1	Y	246	PRO	N-CA-C	-5.77	97.11	112.10
1	g	246	PRO	N-CA-C	-5.77	97.11	112.10
1	l	246	PRO	N-CA-C	-5.77	97.11	112.10
1	S	246	PRO	N-CA-C	-5.77	97.11	112.10
1	o	246	PRO	N-CA-C	-5.77	97.11	112.10
1	z	246	PRO	N-CA-C	-5.77	97.11	112.10
1	a	246	PRO	N-CA-C	-5.76	97.11	112.10
1	j	246	PRO	N-CA-C	-5.76	97.11	112.10
1	t	246	PRO	N-CA-C	-5.76	97.11	112.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7	246	PRO	N-CA-C	-5.76	97.11	112.10
1	d	246	PRO	N-CA-C	-5.76	97.12	112.10
1	e	246	PRO	N-CA-C	-5.76	97.12	112.10
1	L	246	PRO	N-CA-C	-5.76	97.13	112.10
1	f	246	PRO	N-CA-C	-5.76	97.13	112.10
1	H	246	PRO	N-CA-C	-5.76	97.13	112.10
1	O	246	PRO	N-CA-C	-5.75	97.14	112.10
1	V	246	PRO	N-CA-C	-5.75	97.14	112.10
1	r	246	PRO	N-CA-C	-5.75	97.14	112.10
1	m	246	PRO	N-CA-C	-5.75	97.15	112.10
1	I	308	ILE	C-N-CA	5.29	134.93	121.70
1	N	308	ILE	C-N-CA	5.29	134.94	121.70
1	e	308	ILE	C-N-CA	5.29	134.93	121.70
1	v	308	ILE	C-N-CA	5.29	134.93	121.70
1	t	308	ILE	C-N-CA	5.29	134.91	121.70
1	x	308	ILE	C-N-CA	5.29	134.91	121.70
1	Q	308	ILE	C-N-CA	5.28	134.91	121.70
1	0	308	ILE	C-N-CA	5.28	134.91	121.70
1	r	308	ILE	C-N-CA	5.28	134.91	121.70
1	T	308	ILE	C-N-CA	5.28	134.90	121.70
1	3	308	ILE	C-N-CA	5.28	134.90	121.70
1	i	308	ILE	C-N-CA	5.28	134.90	121.70
1	b	308	ILE	C-N-CA	5.28	134.90	121.70
1	4	308	ILE	C-N-CA	5.28	134.89	121.70
1	C	308	ILE	C-N-CA	5.28	134.89	121.70
1	E	308	ILE	C-N-CA	5.28	134.89	121.70
1	G	308	ILE	C-N-CA	5.28	134.89	121.70
1	L	308	ILE	C-N-CA	5.28	134.89	121.70
1	M	308	ILE	C-N-CA	5.28	134.89	121.70
1	O	308	ILE	C-N-CA	5.28	134.89	121.70
1	W	308	ILE	C-N-CA	5.28	134.89	121.70
1	Y	308	ILE	C-N-CA	5.28	134.89	121.70
1	Z	308	ILE	C-N-CA	5.28	134.89	121.70
1	5	308	ILE	C-N-CA	5.28	134.89	121.70
1	k	308	ILE	C-N-CA	5.28	134.89	121.70
1	l	308	ILE	C-N-CA	5.28	134.89	121.70
1	6	308	ILE	C-N-CA	5.28	134.89	121.70
1	D	308	ILE	C-N-CA	5.27	134.88	121.70
1	F	308	ILE	C-N-CA	5.27	134.88	121.70
1	S	308	ILE	C-N-CA	5.27	134.88	121.70
1	1	308	ILE	C-N-CA	5.27	134.88	121.70
1	h	308	ILE	C-N-CA	5.27	134.88	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	q	308	ILE	C-N-CA	5.27	134.88	121.70
1	s	308	ILE	C-N-CA	5.27	134.88	121.70
1	7	308	ILE	C-N-CA	5.27	134.88	121.70
1	U	308	ILE	C-N-CA	5.27	134.88	121.70
1	d	308	ILE	C-N-CA	5.27	134.88	121.70
1	A	308	ILE	C-N-CA	5.27	134.88	121.70
1	X	308	ILE	C-N-CA	5.27	134.87	121.70
1	K	308	ILE	C-N-CA	5.26	134.86	121.70
1	a	308	ILE	C-N-CA	5.26	134.86	121.70
1	j	308	ILE	C-N-CA	5.26	134.86	121.70
1	w	308	ILE	C-N-CA	5.26	134.86	121.70
1	P	308	ILE	C-N-CA	5.26	134.86	121.70
1	g	308	ILE	C-N-CA	5.26	134.85	121.70
1	n	308	ILE	C-N-CA	5.26	134.85	121.70
1	u	308	ILE	C-N-CA	5.26	134.85	121.70
1	y	308	ILE	C-N-CA	5.26	134.85	121.70
1	B	308	ILE	C-N-CA	5.26	134.85	121.70
1	o	308	ILE	C-N-CA	5.26	134.85	121.70
1	z	308	ILE	C-N-CA	5.26	134.85	121.70
1	2	308	ILE	C-N-CA	5.26	134.85	121.70
1	f	308	ILE	C-N-CA	5.26	134.85	121.70
1	H	308	ILE	C-N-CA	5.26	134.84	121.70
1	J	308	ILE	C-N-CA	5.25	134.84	121.70
1	R	308	ILE	C-N-CA	5.25	134.84	121.70
1	p	308	ILE	C-N-CA	5.25	134.82	121.70
1	V	308	ILE	C-N-CA	5.25	134.82	121.70
1	c	308	ILE	C-N-CA	5.25	134.81	121.70
1	m	308	ILE	C-N-CA	5.25	134.81	121.70

There are no chirality outliers.

All (120) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	382	ASN	Peptide
1	0	68	MET	Peptide
1	1	382	ASN	Peptide
1	1	68	MET	Peptide
1	2	382	ASN	Peptide
1	2	68	MET	Peptide
1	3	382	ASN	Peptide
1	3	68	MET	Peptide
1	4	382	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	4	68	MET	Peptide
1	5	382	ASN	Peptide
1	5	68	MET	Peptide
1	6	382	ASN	Peptide
1	6	68	MET	Peptide
1	7	382	ASN	Peptide
1	7	68	MET	Peptide
1	A	382	ASN	Peptide
1	A	68	MET	Peptide
1	B	382	ASN	Peptide
1	B	68	MET	Peptide
1	C	382	ASN	Peptide
1	C	68	MET	Peptide
1	D	382	ASN	Peptide
1	D	68	MET	Peptide
1	E	382	ASN	Peptide
1	E	68	MET	Peptide
1	F	382	ASN	Peptide
1	F	68	MET	Peptide
1	G	382	ASN	Peptide
1	G	68	MET	Peptide
1	H	382	ASN	Peptide
1	H	68	MET	Peptide
1	I	382	ASN	Peptide
1	I	68	MET	Peptide
1	J	382	ASN	Peptide
1	J	68	MET	Peptide
1	K	382	ASN	Peptide
1	K	68	MET	Peptide
1	L	382	ASN	Peptide
1	L	68	MET	Peptide
1	M	382	ASN	Peptide
1	M	68	MET	Peptide
1	N	382	ASN	Peptide
1	N	68	MET	Peptide
1	O	382	ASN	Peptide
1	O	68	MET	Peptide
1	P	382	ASN	Peptide
1	P	68	MET	Peptide
1	Q	382	ASN	Peptide
1	Q	68	MET	Peptide
1	R	382	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	R	68	MET	Peptide
1	S	382	ASN	Peptide
1	S	68	MET	Peptide
1	T	382	ASN	Peptide
1	T	68	MET	Peptide
1	U	382	ASN	Peptide
1	U	68	MET	Peptide
1	V	382	ASN	Peptide
1	V	68	MET	Peptide
1	W	382	ASN	Peptide
1	W	68	MET	Peptide
1	X	382	ASN	Peptide
1	X	68	MET	Peptide
1	Y	382	ASN	Peptide
1	Y	68	MET	Peptide
1	Z	382	ASN	Peptide
1	Z	68	MET	Peptide
1	a	382	ASN	Peptide
1	a	68	MET	Peptide
1	b	382	ASN	Peptide
1	b	68	MET	Peptide
1	c	382	ASN	Peptide
1	c	68	MET	Peptide
1	d	382	ASN	Peptide
1	d	68	MET	Peptide
1	e	382	ASN	Peptide
1	e	68	MET	Peptide
1	f	382	ASN	Peptide
1	f	68	MET	Peptide
1	g	382	ASN	Peptide
1	g	68	MET	Peptide
1	h	382	ASN	Peptide
1	h	68	MET	Peptide
1	i	382	ASN	Peptide
1	i	68	MET	Peptide
1	j	382	ASN	Peptide
1	j	68	MET	Peptide
1	k	382	ASN	Peptide
1	k	68	MET	Peptide
1	l	382	ASN	Peptide
1	l	68	MET	Peptide
1	m	382	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	m	68	MET	Peptide
1	n	382	ASN	Peptide
1	n	68	MET	Peptide
1	o	382	ASN	Peptide
1	o	68	MET	Peptide
1	p	382	ASN	Peptide
1	p	68	MET	Peptide
1	q	382	ASN	Peptide
1	q	68	MET	Peptide
1	r	382	ASN	Peptide
1	r	68	MET	Peptide
1	s	382	ASN	Peptide
1	s	68	MET	Peptide
1	t	382	ASN	Peptide
1	t	68	MET	Peptide
1	u	382	ASN	Peptide
1	u	68	MET	Peptide
1	v	382	ASN	Peptide
1	v	68	MET	Peptide
1	w	382	ASN	Peptide
1	w	68	MET	Peptide
1	x	382	ASN	Peptide
1	x	68	MET	Peptide
1	y	382	ASN	Peptide
1	y	68	MET	Peptide
1	z	382	ASN	Peptide
1	z	68	MET	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	4326	0	4014	457	0
1	1	4326	0	4013	452	0
1	2	4326	0	4014	453	0
1	3	4326	0	4014	461	0
1	4	4326	0	4013	459	0
1	5	4326	0	4013	455	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	6	4326	0	4014	451	0
1	7	4326	0	4013	456	0
1	A	4326	0	4014	672	0
1	B	4326	0	4013	680	0
1	C	4326	0	4014	670	0
1	D	4326	0	4013	669	0
1	E	4326	0	4014	676	0
1	F	4326	0	4013	661	0
1	G	4326	0	4014	670	0
1	H	4326	0	4013	675	0
1	I	4326	0	4014	676	0
1	J	4326	0	4013	671	0
1	K	4326	0	4013	679	0
1	L	4326	0	4014	674	0
1	M	4326	0	4014	676	0
1	N	4326	0	4014	670	0
1	O	4326	0	4014	670	0
1	P	4326	0	4013	628	0
1	Q	4326	0	4014	632	0
1	R	4326	0	4014	617	0
1	S	4326	0	4013	618	0
1	T	4326	0	4014	678	0
1	U	4326	0	4014	673	0
1	V	4326	0	4014	675	0
1	W	4326	0	4014	670	0
1	X	4326	0	4013	675	0
1	Y	4326	0	4014	675	0
1	Z	4326	0	4014	665	0
1	a	4326	0	4013	0	0
1	b	4326	0	4014	0	0
1	c	4326	0	4013	0	0
1	d	4326	0	4013	0	0
1	e	4326	0	4014	0	0
1	f	4326	0	4014	0	0
1	g	4326	0	4014	0	0
1	h	4326	0	4014	0	0
1	i	4326	0	4014	0	0
1	j	4326	0	4014	0	0
1	k	4326	0	4014	0	0
1	l	4326	0	4014	0	0
1	m	4326	0	4014	0	0
1	n	4326	0	4014	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	o	4326	0	4013	0	0
1	p	4326	0	4014	0	0
1	q	4326	0	4014	0	0
1	r	4326	0	4014	0	0
1	s	4326	0	4013	0	0
1	t	4326	0	4014	0	0
1	u	4326	0	4014	0	0
1	v	4326	0	4014	0	0
1	w	4326	0	4014	0	0
1	x	4326	0	4013	0	0
1	y	4326	0	4014	0	0
1	z	4326	0	4013	0	0
All	All	259560	0	240820	14764	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 30.

All (14764) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:34:VAL:N	1:5:36:HIS:CE1	1.71	1.58
1:A:34:VAL:N	1:E:36:HIS:CE1	11.02	1.58
1:J:36:HIS:CE1	1:O:34:VAL:N	1.72	1.58
1:G:36:HIS:CE1	1:M:34:VAL:H	152.11	1.57
1:A:34:VAL:H	1:B:36:HIS:CE1	1.22	1.57
1:D:34:VAL:N	1:F:36:HIS:CE1	91.74	1.57
1:B:34:VAL:N	1:C:36:HIS:CE1	1.72	1.57
1:D:34:VAL:N	1:E:36:HIS:CE1	1.72	1.57
1:U:36:HIS:CE1	1:4:34:VAL:N	1.72	1.56
1:P:36:HIS:CE1	1:Q:34:VAL:N	1.73	1.56
1:T:36:HIS:CE1	1:5:34:VAL:N	91.06	1.56
1:F:36:HIS:CE1	1:G:34:VAL:N	1.72	1.56
1:K:34:VAL:N	1:6:36:HIS:CE1	1.72	1.56
1:L:36:HIS:CE1	1:1:34:VAL:N	1.72	1.56
1:L:34:VAL:H	1:R:36:HIS:CE1	146.68	1.56
1:O:36:HIS:CE1	1:V:34:VAL:N	96.47	1.56
1:T:34:VAL:N	1:X:36:HIS:CE1	99.70	1.56
1:H:36:HIS:CE1	1:I:34:VAL:N	1.72	1.56
1:G:34:VAL:H	1:N:36:HIS:CE1	149.28	1.56
1:F:34:VAL:N	1:R:36:HIS:CE1	1.72	1.56
1:H:34:VAL:N	1:Z:36:HIS:CE1	1.72	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:34:VAL:N	1:Y:36:HIS:CE1	156.32	1.56
1:A:36:HIS:CE1	1:E:34:VAL:H	1.24	1.56
1:O:36:HIS:CE1	1:P:34:VAL:N	1.71	1.56
1:Y:34:VAL:H	1:7:36:HIS:CE1	99.90	1.56
1:X:34:VAL:N	1:Y:36:HIS:CE1	11.02	1.56
1:I:36:HIS:CE1	1:J:34:VAL:N	1.72	1.55
1:R:34:VAL:H	1:V:36:HIS:CE1	1.23	1.55
1:K:36:HIS:CE1	1:S:34:VAL:N	152.97	1.55
1:N:34:VAL:N	1:S:36:HIS:CE1	91.03	1.55
1:O:36:HIS:CE1	1:V:34:VAL:H	97.07	1.55
1:M:34:VAL:H	1:2:36:HIS:CE1	1.22	1.54
1:F:36:HIS:CE1	1:G:34:VAL:H	1.23	1.54
1:I:36:HIS:CE1	1:6:34:VAL:H	91.01	1.54
1:C:34:VAL:H	1:D:36:HIS:CE1	1.23	1.54
1:M:36:HIS:CE1	1:N:34:VAL:N	1.72	1.54
1:R:34:VAL:N	1:V:36:HIS:CE1	1.73	1.54
1:Y:34:VAL:N	1:7:36:HIS:CE1	99.33	1.54
1:D:36:HIS:CE1	1:R:34:VAL:N	99.33	1.54
1:T:36:HIS:CE1	1:U:34:VAL:H	1.22	1.54
1:E:34:VAL:N	1:Q:36:HIS:CE1	90.21	1.54
1:V:36:HIS:CE1	1:W:34:VAL:N	11.02	1.54
1:B:36:HIS:CE1	1:C:34:VAL:N	11.01	1.54
1:E:34:VAL:H	1:Q:36:HIS:CE1	89.97	1.54
1:G:36:HIS:CE1	1:W:34:VAL:N	1.72	1.54
1:C:34:VAL:N	1:D:36:HIS:CE1	1.73	1.54
1:S:36:HIS:CE1	1:3:34:VAL:H	1.23	1.53
1:J:34:VAL:N	1:Z:36:HIS:CE1	11.88	1.53
1:N:34:VAL:H	1:S:36:HIS:CE1	90.90	1.53
1:P:36:HIS:CE1	1:Q:34:VAL:H	1.23	1.53
1:S:36:HIS:CE1	1:3:34:VAL:N	1.72	1.53
1:M:36:HIS:CE1	1:2:34:VAL:H	11.76	1.53
1:Q:36:HIS:CE1	1:S:34:VAL:N	1.72	1.53
1:V:36:HIS:CE1	1:W:34:VAL:H	11.76	1.52
1:N:36:HIS:CE1	1:Z:34:VAL:N	156.32	1.52
1:G:36:HIS:CE1	1:W:34:VAL:H	1.22	1.52
1:V:34:VAL:H	1:W:36:HIS:CE1	1.22	1.52
1:I:36:HIS:CE1	1:6:34:VAL:N	90.40	1.51
1:V:34:VAL:N	1:W:36:HIS:CE1	1.72	1.51
1:I:34:VAL:N	1:1:36:HIS:CE1	99.33	1.51
1:C:36:HIS:CE1	1:T:34:VAL:N	152.49	1.51
1:W:36:HIS:CE1	1:7:34:VAL:N	149.75	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:36:HIS:CE1	1:U:34:VAL:N	1.72	1.51
1:G:34:VAL:N	1:N:36:HIS:CE1	149.75	1.51
1:H:36:HIS:CE1	1:I:34:VAL:H	1.23	1.51
1:L:34:VAL:N	1:R:36:HIS:CE1	147.09	1.51
1:T:34:VAL:H	1:X:36:HIS:CE1	100.19	1.51
1:X:36:HIS:CE1	1:Y:34:VAL:H	1.23	1.50
1:X:36:HIS:CE1	1:Y:34:VAL:N	1.73	1.50
1:L:34:VAL:N	1:R:36:HIS:HE1	146.70	1.50
1:Z:34:VAL:N	1:O:36:HIS:CE1	1.73	1.50
1:Z:34:VAL:H	1:O:36:HIS:CE1	1.23	1.50
1:H:34:VAL:N	1:L:36:HIS:CE1	99.70	1.50
1:G:34:VAL:N	1:N:36:HIS:HE1	150.33	1.50
1:G:36:HIS:CE1	1:M:34:VAL:N	152.05	1.50
1:M:36:HIS:CE1	1:N:34:VAL:H	1.22	1.50
1:A:36:HIS:HE1	1:U:34:VAL:N	144.65	1.50
1:A:34:VAL:N	1:B:36:HIS:HE1	1.00	1.50
1:D:36:HIS:CE1	1:R:34:VAL:H	99.90	1.49
1:L:36:HIS:HE1	1:I:34:VAL:N	1.01	1.49
1:J:36:HIS:CE1	1:O:34:VAL:H	1.22	1.49
1:N:34:VAL:N	1:S:36:HIS:HE1	90.34	1.49
1:X:34:VAL:N	1:5:36:HIS:HE1	1.01	1.49
1:P:36:HIS:HE1	1:Q:34:VAL:N	1.03	1.49
1:C:36:HIS:CE1	1:T:34:VAL:H	152.59	1.49
1:K:36:HIS:HE1	1:S:34:VAL:N	152.63	1.49
1:O:36:HIS:HE1	1:P:34:VAL:N	1.01	1.49
1:A:36:HIS:CE1	1:U:34:VAL:N	144.54	1.49
1:O:34:VAL:H	1:3:36:HIS:CE1	1.22	1.48
1:C:98:ASN:HB3	1:E:316:ARG:NH2	132.31	1.48
1:I:34:VAL:H	1:I:36:HIS:CE1	99.89	1.48
1:C:316:ARG:NH2	1:I:98:ASN:HB3	1.28	1.48
1:A:34:VAL:N	1:B:36:HIS:CE1	1.72	1.48
1:K:36:HIS:CE1	1:L:34:VAL:H	1.23	1.48
1:Q:316:ARG:NH2	1:R:98:ASN:HB3	64.29	1.48
1:F:34:VAL:N	1:H:36:HIS:CE1	89.60	1.48
1:M:34:VAL:N	1:2:36:HIS:CE1	1.72	1.48
1:D:316:ARG:NH2	1:N:98:ASN:HB3	1.28	1.48
1:J:316:ARG:NH2	1:2:98:ASN:HB3	126.33	1.48
1:J:36:HIS:CE1	1:K:34:VAL:N	84.31	1.47
1:K:36:HIS:CE1	1:L:34:VAL:N	1.73	1.47
1:M:36:HIS:CE1	1:2:34:VAL:N	11.01	1.47
1:W:316:ARG:NH2	1:Y:98:ASN:HB3	1.29	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:316:ARG:NH2	1:Z:98:ASN:HB3	71.95	1.47
1:F:98:ASN:HB3	1:3:316:ARG:NH2	165.59	1.47
1:R:316:ARG:NH2	1:S:98:ASN:HB3	1.29	1.47
1:P:34:VAL:N	1:U:36:HIS:CE1	99.70	1.47
1:Y:316:ARG:NH2	1:Z:98:ASN:HB3	64.29	1.47
1:A:98:ASN:HB3	1:I:316:ARG:NH2	1.28	1.47
1:H:316:ARG:NH2	1:O:98:ASN:HB3	208.36	1.47
1:O:34:VAL:N	1:3:36:HIS:CE1	1.72	1.46
1:M:36:HIS:HE1	1:2:34:VAL:N	11.36	1.46
1:K:98:ASN:HB3	1:M:316:ARG:NH2	125.84	1.46
1:A:36:HIS:CE1	1:E:34:VAL:N	1.75	1.46
1:T:316:ARG:NH2	1:U:98:ASN:HB3	80.75	1.46
1:A:36:HIS:CE1	1:U:34:VAL:H	144.09	1.46
1:G:316:ARG:NH2	1:I:98:ASN:HB3	1.29	1.46
1:T:98:ASN:HB3	1:V:316:ARG:NH2	102.79	1.46
1:F:34:VAL:N	1:H:36:HIS:HE1	90.11	1.45
1:I:36:HIS:HE1	1:6:34:VAL:N	89.94	1.45
1:D:34:VAL:N	1:E:36:HIS:HE1	1.01	1.45
1:N:98:ASN:HB3	1:P:316:ARG:NH2	42.35	1.45
1:T:36:HIS:HE1	1:U:34:VAL:N	1.02	1.45
1:B:34:VAL:N	1:4:36:HIS:CE1	155.53	1.45
1:U:316:ARG:NH2	1:V:98:ASN:HB3	64.28	1.45
1:Y:34:VAL:N	1:7:36:HIS:HE1	99.43	1.44
1:H:34:VAL:N	1:L:36:HIS:HE1	100.48	1.44
1:E:316:ARG:NH2	1:Q:98:ASN:HB3	1.29	1.44
1:A:316:ARG:NH2	1:G:98:ASN:HB3	1.30	1.44
1:B:36:HIS:HE1	1:C:34:VAL:N	11.35	1.44
1:K:36:HIS:HE1	1:L:34:VAL:N	1.03	1.44
1:B:98:ASN:HB3	1:L:316:ARG:NH2	1.28	1.44
1:G:36:HIS:HE1	1:M:34:VAL:N	152.45	1.44
1:R:34:VAL:N	1:V:36:HIS:HE1	1.03	1.44
1:V:98:ASN:HB3	1:X:316:ARG:NH2	1.29	1.44
1:B:34:VAL:N	1:4:36:HIS:HE1	155.90	1.43
1:O:316:ARG:NH2	1:7:98:ASN:HB3	1.28	1.43
1:T:34:VAL:N	1:X:36:HIS:HE1	100.48	1.43
1:X:36:HIS:HE1	1:Y:34:VAL:N	1.03	1.43
1:C:98:ASN:HB3	1:M:316:ARG:NH2	1.29	1.43
1:D:316:ARG:NH2	1:E:98:ASN:HB3	100.16	1.43
1:H:36:HIS:HE1	1:I:34:VAL:N	1.02	1.42
1:Z:34:VAL:N	1:O:36:HIS:HE1	1.03	1.42
1:B:34:VAL:N	1:C:36:HIS:HE1	1.01	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:34:VAL:N	1:R:36:HIS:HE1	1.01	1.42
1:I:34:VAL:N	1:I:36:HIS:HE1	99.42	1.42
1:O:34:VAL:N	1:Y:36:HIS:HE1	156.67	1.42
1:D:36:HIS:HE1	1:R:34:VAL:N	99.43	1.42
1:N:316:ARG:NH2	1:O:98:ASN:HB3	64.28	1.42
1:X:98:ASN:HB3	1:Z:316:ARG:NH2	102.79	1.42
1:H:98:ASN:HB3	1:Y:316:ARG:NH2	1.29	1.42
1:F:98:ASN:HB3	1:Q:316:ARG:NH2	1.29	1.42
1:I:36:HIS:HE1	1:J:34:VAL:N	1.02	1.41
1:W:98:ASN:HB3	1:X:316:ARG:NH2	64.29	1.41
1:K:316:ARG:NH2	1:O:98:ASN:HB3	1.29	1.41
1:X:98:ASN:HB3	1:4:316:ARG:NH2	1.29	1.41
1:C:36:HIS:HE1	1:T:34:VAL:N	152.31	1.41
1:H:316:ARG:NH2	1:W:98:ASN:HB3	1.29	1.41
1:Q:98:ASN:HB3	1:S:316:ARG:NH2	100.16	1.41
1:M:36:HIS:HE1	1:N:34:VAL:N	1.01	1.41
1:V:316:ARG:NH2	1:4:98:ASN:HB3	1.29	1.41
1:J:316:ARG:NH2	1:L:98:ASN:HB3	1.29	1.41
1:S:316:ARG:NH2	1:U:98:ASN:HB3	1.29	1.41
1:Z:316:ARG:NH2	1:6:98:ASN:HB3	161.32	1.41
1:D:98:ASN:HB3	1:P:316:ARG:NH2	1.29	1.41
1:A:34:VAL:N	1:E:36:HIS:HE1	11.36	1.41
1:N:316:ARG:NH2	1:P:98:ASN:HB3	1.28	1.40
1:K:98:ASN:HB3	1:7:316:ARG:NH2	1.29	1.40
1:K:316:ARG:NH2	1:L:98:ASN:HB3	80.74	1.40
1:T:36:HIS:HE1	1:5:34:VAL:N	90.37	1.40
1:W:36:HIS:HE1	1:7:34:VAL:N	150.33	1.40
1:V:34:VAL:N	1:W:36:HIS:HE1	1.02	1.40
1:L:316:ARG:NH2	1:M:98:ASN:HB3	103.24	1.40
1:R:98:ASN:HB3	1:U:316:ARG:NH2	1.29	1.40
1:O:316:ARG:NH2	1:P:98:ASN:HB3	80.74	1.40
1:Y:98:ASN:HB3	1:6:316:ARG:NH2	184.79	1.40
1:G:98:ASN:HB3	1:O:316:ARG:NH2	202.44	1.40
1:N:36:HIS:HE1	1:Z:34:VAL:N	156.66	1.40
1:G:316:ARG:NH2	1:H:98:ASN:HB3	64.29	1.40
1:E:98:ASN:HB3	1:F:316:ARG:NH2	1.29	1.39
1:Q:36:HIS:HE1	1:S:34:VAL:N	1.01	1.39
1:A:316:ARG:NH2	1:5:98:ASN:HB3	175.33	1.39
1:A:257:ARG:HD2	1:B:37:SER:CA	1.51	1.39
1:I:98:ASN:HB3	1:2:316:ARG:NH2	184.80	1.39
1:B:98:ASN:HB3	1:5:316:ARG:NH2	235.17	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:37:SER:CA	1:G:257:ARG:HD2	1.53	1.38
1:I:37:SER:CA	1:6:257:ARG:HD2	100.69	1.38
1:K:257:ARG:HD2	1:6:37:SER:CA	1.53	1.38
1:M:37:SER:CA	1:N:257:ARG:HD2	1.53	1.38
1:O:37:SER:CA	1:V:257:ARG:HD2	112.22	1.38
1:D:37:SER:CA	1:R:257:ARG:HD2	112.40	1.38
1:W:37:SER:CA	1:7:257:ARG:HD2	144.99	1.38
1:B:257:ARG:HD2	1:C:37:SER:CA	1.54	1.38
1:F:316:ARG:NH2	1:T:98:ASN:HB3	161.32	1.38
1:T:37:SER:CA	1:U:257:ARG:HD2	1.54	1.38
1:V:257:ARG:HD2	1:W:37:SER:CA	1.53	1.38
1:X:257:ARG:HD2	1:Y:37:SER:CA	23.65	1.38
1:A:257:ARG:HD2	1:E:37:SER:CA	23.64	1.38
1:T:316:ARG:NH2	1:3:98:ASN:HB3	1.29	1.38
1:U:37:SER:CA	1:4:257:ARG:HD2	1.53	1.38
1:B:37:SER:CA	1:C:257:ARG:HD2	23.65	1.38
1:H:257:ARG:HD2	1:Z:37:SER:CA	1.54	1.38
1:B:316:ARG:NH2	1:J:98:ASN:HB3	1.29	1.38
1:A:98:ASN:HB3	1:B:316:ARG:NH2	80.75	1.38
1:I:316:ARG:NH2	1:J:98:ASN:HB3	80.75	1.38
1:A:37:SER:CA	1:U:257:ARG:HD2	143.44	1.38
1:P:37:SER:CA	1:Q:257:ARG:HD2	1.54	1.37
1:J:37:SER:CA	1:K:257:ARG:HD2	81.39	1.37
1:P:34:VAL:N	1:U:36:HIS:HE1	100.48	1.37
1:D:257:ARG:HD2	1:E:37:SER:CA	1.53	1.37
1:I:37:SER:CA	1:J:257:ARG:HD2	1.54	1.37
1:O:257:ARG:HD2	1:3:37:SER:CA	1.54	1.37
1:D:257:ARG:HD2	1:F:37:SER:CA	82.87	1.37
1:M:98:ASN:HB3	1:1:316:ARG:NH2	1.29	1.37
1:N:37:SER:CA	1:Z:257:ARG:HD2	160.54	1.37
1:Q:37:SER:CA	1:S:257:ARG:HD2	1.53	1.37
1:Y:257:ARG:HD2	1:7:37:SER:CA	112.40	1.37
1:M:257:ARG:HD2	1:2:37:SER:CA	1.54	1.36
1:L:37:SER:CA	1:1:257:ARG:HD2	1.54	1.36
1:C:316:ARG:NH2	1:D:98:ASN:HB3	100.15	1.36
1:O:37:SER:CA	1:P:257:ARG:HD2	1.53	1.36
1:C:37:SER:CA	1:T:257:ARG:HD2	162.96	1.36
1:O:34:VAL:N	1:3:36:HIS:HE1	1.02	1.36
1:T:37:SER:CA	1:5:257:ARG:HD2	101.82	1.36
1:R:257:ARG:HD2	1:V:37:SER:CA	1.54	1.36
1:Z:257:ARG:HD2	1:0:37:SER:CA	1.54	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:37:SER:CA	1:W:257:ARG:HD2	1.54	1.36
1:H:257:ARG:HD2	1:L:37:SER:CA	103.30	1.36
1:J:36:HIS:HE1	1:K:34:VAL:N	84.86	1.36
1:X:34:VAL:N	1:Y:36:HIS:HE1	11.36	1.36
1:I:257:ARG:HD2	1:1:37:SER:CA	112.40	1.36
1:K:37:SER:CA	1:S:257:ARG:HD2	157.61	1.36
1:X:37:SER:CA	1:Y:257:ARG:HD2	1.54	1.36
1:A:36:HIS:HE1	1:E:34:VAL:N	1.05	1.36
1:D:34:VAL:N	1:F:36:HIS:HE1	92.34	1.36
1:H:34:VAL:N	1:Z:36:HIS:HE1	1.01	1.36
1:J:37:SER:CA	1:O:257:ARG:HD2	1.53	1.36
1:C:34:VAL:N	1:D:36:HIS:HE1	1.03	1.36
1:G:257:ARG:HD2	1:N:37:SER:CA	144.99	1.36
1:G:37:SER:CA	1:M:257:ARG:HD2	158.29	1.36
1:V:37:SER:CA	1:W:257:ARG:HD2	23.66	1.36
1:L:257:ARG:HD2	1:R:37:SER:CA	151.71	1.36
1:F:257:ARG:HD2	1:R:37:SER:CA	1.53	1.36
1:X:257:ARG:HD2	1:5:37:SER:CA	1.52	1.35
1:S:36:HIS:HE1	1:3:34:VAL:N	1.02	1.35
1:O:257:ARG:HD2	1:Y:37:SER:CA	160.55	1.35
1:J:34:VAL:N	1:Z:36:HIS:HE1	11.67	1.35
1:M:37:SER:CA	1:2:257:ARG:HD2	23.65	1.35
1:M:34:VAL:N	1:2:36:HIS:HE1	1.02	1.35
1:E:257:ARG:HD2	1:Q:37:SER:CA	89.25	1.35
1:T:257:ARG:HD2	1:X:37:SER:CA	103.30	1.35
1:C:257:ARG:HD2	1:D:37:SER:CA	1.54	1.35
1:E:34:VAL:N	1:Q:36:HIS:HE1	91.02	1.35
1:F:257:ARG:HD2	1:H:37:SER:CA	93.06	1.35
1:H:37:SER:CA	1:I:257:ARG:HD2	1.54	1.35
1:N:257:ARG:HD2	1:S:37:SER:CA	101.79	1.35
1:U:36:HIS:HE1	1:4:34:VAL:N	1.01	1.34
1:K:34:VAL:N	1:6:36:HIS:HE1	1.01	1.34
1:K:37:SER:CA	1:L:257:ARG:HD2	1.54	1.34
1:P:257:ARG:HD2	1:U:37:SER:CA	103.30	1.34
1:S:37:SER:CA	1:3:257:ARG:HD2	1.54	1.33
1:J:257:ARG:HD2	1:Z:37:SER:CA	23.28	1.33
1:J:36:HIS:HE1	1:O:34:VAL:N	1.01	1.33
1:B:257:ARG:HD2	1:4:37:SER:CA	163.37	1.32
1:U:246:PRO:O	1:U:249:THR:HG22	1.30	1.32
1:G:36:HIS:HE1	1:W:34:VAL:N	1.02	1.31
1:V:36:HIS:HE1	1:W:34:VAL:N	11.36	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:246:PRO:O	1:6:249:THR:HG22	1.30	1.31
1:B:246:PRO:O	1:B:249:THR:HG22	1.30	1.31
1:L:246:PRO:O	1:L:249:THR:HG22	1.30	1.31
1:F:36:HIS:HE1	1:G:34:VAL:N	1.02	1.31
1:O:36:HIS:NE2	1:P:34:VAL:HG23	1.46	1.31
1:A:37:SER:CA	1:E:257:ARG:HD2	1.57	1.30
1:J:246:PRO:O	1:J:249:THR:HG22	1.30	1.30
1:O:36:HIS:HE1	1:V:34:VAL:N	95.81	1.30
1:5:246:PRO:O	1:5:249:THR:HG22	1.30	1.30
1:K:36:HIS:NE2	1:S:34:VAL:HG23	151.13	1.30
1:I:36:HIS:NE2	1:6:34:VAL:HG23	91.19	1.30
1:T:246:PRO:O	1:T:249:THR:HG22	1.30	1.30
1:T:36:HIS:NE2	1:U:34:VAL:HG23	1.47	1.30
1:F:36:HIS:NE2	1:G:34:VAL:HG23	1.47	1.30
1:I:246:PRO:O	1:I:249:THR:HG22	1.30	1.30
1:H:34:VAL:HG23	1:Z:36:HIS:NE2	1.47	1.30
1:X:34:VAL:HG23	1:Y:36:HIS:NE2	8.51	1.30
1:N:36:HIS:NE2	1:Z:34:VAL:HG23	153.35	1.29
1:O:36:HIS:NE2	1:V:34:VAL:HG23	96.37	1.29
1:Q:246:PRO:O	1:Q:249:THR:HG22	1.30	1.29
1:Q:36:HIS:NE2	1:S:34:VAL:HG23	1.47	1.29
1:C:246:PRO:O	1:C:249:THR:HG22	1.30	1.29
1:D:246:PRO:O	1:D:249:THR:HG22	1.30	1.29
1:W:246:PRO:O	1:W:249:THR:HG22	1.30	1.29
1:I:246:PRO:O	1:I:249:THR:HG22	1.30	1.29
1:O:34:VAL:HG23	1:Y:36:HIS:NE2	153.35	1.29
1:3:246:PRO:O	1:3:249:THR:HG22	1.30	1.29
1:J:36:HIS:NE2	1:K:34:VAL:HG23	85.96	1.29
1:P:36:HIS:NE2	1:Q:34:VAL:HG23	1.48	1.29
1:F:34:VAL:HG23	1:R:36:HIS:NE2	1.47	1.29
1:V:36:HIS:NE2	1:W:34:VAL:HG23	8.51	1.29
1:X:246:PRO:O	1:X:249:THR:HG22	1.30	1.29
1:D:34:VAL:HG23	1:E:36:HIS:NE2	1.47	1.29
1:G:36:HIS:NE2	1:W:34:VAL:HG23	1.47	1.28
1:Z:246:PRO:O	1:Z:249:THR:HG22	1.30	1.28
1:A:34:VAL:HG23	1:E:36:HIS:NE2	8.51	1.28
1:N:34:VAL:HG23	1:S:36:HIS:NE2	92.53	1.28
1:I:36:HIS:NE2	1:J:34:VAL:HG23	1.47	1.28
1:Y:246:PRO:O	1:Y:249:THR:HG22	1.30	1.28
1:O:34:VAL:HG23	1:3:36:HIS:NE2	1.48	1.28
1:X:34:VAL:HG23	1:5:36:HIS:NE2	1.45	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:36:HIS:NE2	1:7:34:VAL:HG23	147.88	1.28
1:V:34:VAL:HG23	1:W:36:HIS:NE2	1.47	1.28
1:O:246:PRO:O	1:O:249:THR:HG22	1.30	1.28
1:J:246:PRO:O	1:J:249:THR:CG2	1.82	1.28
1:R:246:PRO:O	1:R:249:THR:CG2	1.82	1.28
1:5:246:PRO:O	1:5:249:THR:CG2	1.82	1.28
1:P:246:PRO:O	1:P:249:THR:CG2	1.82	1.28
1:T:36:HIS:NE2	1:5:34:VAL:HG23	92.55	1.28
1:B:34:VAL:HG23	1:C:36:HIS:NE2	1.47	1.28
1:N:246:PRO:O	1:N:249:THR:CG2	1.82	1.28
1:S:246:PRO:O	1:S:249:THR:CG2	1.82	1.28
1:G:34:VAL:HG23	1:N:36:HIS:NE2	147.87	1.28
1:M:36:HIS:NE2	1:N:34:VAL:HG23	1.47	1.28
1:R:246:PRO:O	1:R:249:THR:HG22	1.30	1.28
1:U:36:HIS:NE2	1:4:34:VAL:HG23	1.47	1.28
1:D:36:HIS:NE2	1:R:34:VAL:HG23	98.22	1.28
1:C:246:PRO:O	1:C:249:THR:CG2	1.82	1.28
1:E:246:PRO:O	1:E:249:THR:CG2	1.82	1.28
1:K:34:VAL:HG23	1:6:36:HIS:NE2	1.47	1.27
1:A:246:PRO:O	1:A:249:THR:HG22	1.30	1.27
1:X:246:PRO:O	1:X:249:THR:CG2	1.82	1.27
1:D:246:PRO:O	1:D:249:THR:CG2	1.82	1.27
1:H:246:PRO:O	1:H:249:THR:CG2	1.82	1.27
1:Q:246:PRO:O	1:Q:249:THR:CG2	1.82	1.27
1:L:34:VAL:HG23	1:R:36:HIS:NE2	147.56	1.27
1:Y:246:PRO:O	1:Y:249:THR:CG2	1.82	1.27
1:G:246:PRO:O	1:G:249:THR:CG2	1.82	1.27
1:U:246:PRO:O	1:U:249:THR:CG2	1.82	1.27
1:6:246:PRO:O	1:6:249:THR:CG2	1.82	1.27
1:L:246:PRO:O	1:L:249:THR:CG2	1.82	1.27
1:M:246:PRO:O	1:M:249:THR:CG2	1.82	1.27
1:I:246:PRO:O	1:I:249:THR:CG2	1.82	1.27
1:M:36:HIS:NE2	1:2:34:VAL:HG23	8.51	1.27
1:Z:246:PRO:O	1:Z:249:THR:CG2	1.82	1.27
1:J:36:HIS:NE2	1:O:34:VAL:HG23	1.47	1.27
1:K:246:PRO:O	1:K:249:THR:CG2	1.82	1.27
1:Q:35:GLY:O	1:S:257:ARG:HD3	1.09	1.27
1:N:35:GLY:O	1:Z:257:ARG:HD3	161.48	1.27
1:T:246:PRO:O	1:T:249:THR:CG2	1.82	1.27
1:X:36:HIS:NE2	1:Y:34:VAL:HG23	1.48	1.27
1:Y:34:VAL:HG23	1:7:36:HIS:NE2	98.22	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:246:PRO:O	1:4:249:THR:CG2	1.82	1.26
1:I:246:PRO:O	1:I:249:THR:CG2	1.82	1.26
1:P:246:PRO:O	1:P:249:THR:HG22	1.30	1.26
1:Z:34:VAL:HG23	1:0:36:HIS:NE2	1.48	1.26
1:L:36:HIS:NE2	1:1:34:VAL:HG23	1.47	1.26
1:V:246:PRO:O	1:V:249:THR:CG2	1.82	1.26
1:R:34:VAL:HG23	1:V:36:HIS:NE2	1.48	1.26
1:0:246:PRO:O	1:0:249:THR:CG2	1.82	1.26
1:I:34:VAL:HG23	1:1:36:HIS:NE2	98.22	1.26
1:S:35:GLY:O	1:3:257:ARG:HD3	1.09	1.26
1:H:36:HIS:NE2	1:I:34:VAL:HG23	1.47	1.26
1:7:246:PRO:O	1:7:249:THR:CG2	1.82	1.26
1:A:246:PRO:O	1:A:249:THR:CG2	1.82	1.26
1:F:246:PRO:O	1:F:249:THR:CG2	1.82	1.26
1:F:34:VAL:HG23	1:H:36:HIS:NE2	89.85	1.26
1:J:35:GLY:O	1:K:257:ARG:HD3	85.72	1.26
1:C:36:HIS:NE2	1:T:34:VAL:HG23	151.98	1.26
1:V:257:ARG:HD3	1:W:35:GLY:O	1.09	1.26
1:W:35:GLY:O	1:7:257:ARG:HD3	148.89	1.26
1:B:246:PRO:O	1:B:249:THR:CG2	1.82	1.26
1:J:257:ARG:HD3	1:Z:35:GLY:O	19.21	1.26
1:O:246:PRO:O	1:O:249:THR:HG22	1.30	1.26
1:O:246:PRO:O	1:O:249:THR:CG2	1.82	1.26
1:J:34:VAL:HG23	1:Z:36:HIS:NE2	8.90	1.26
1:A:34:VAL:HG23	1:B:36:HIS:NE2	1.46	1.26
1:C:34:VAL:HG23	1:D:36:HIS:NE2	1.48	1.26
1:E:34:VAL:HG23	1:Q:36:HIS:NE2	90.55	1.26
1:L:35:GLY:O	1:1:257:ARG:HD3	1.09	1.26
1:P:34:VAL:HG23	1:U:36:HIS:NE2	96.56	1.26
1:K:36:HIS:NE2	1:L:34:VAL:HG23	1.48	1.26
1:M:33:GLY:O	1:M:36:HIS:CD2	1.89	1.26
1:O:257:ARG:HD3	1:Y:35:GLY:O	161.48	1.26
1:R:33:GLY:O	1:R:36:HIS:CD2	1.89	1.26
1:S:246:PRO:O	1:S:249:THR:HG22	1.30	1.26
1:S:36:HIS:NE2	1:3:34:VAL:HG23	1.47	1.26
1:T:34:VAL:HG23	1:X:36:HIS:NE2	96.56	1.26
1:D:33:GLY:O	1:D:36:HIS:CD2	1.89	1.26
1:D:34:VAL:HG23	1:F:36:HIS:NE2	89.58	1.26
1:Y:33:GLY:O	1:Y:36:HIS:CD2	1.89	1.26
1:E:246:PRO:O	1:E:249:THR:HG22	1.30	1.26
1:N:246:PRO:O	1:N:249:THR:HG22	1.30	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:246:PRO:O	1:3:249:THR:CG2	1.82	1.26
1:O:257:ARG:HD3	1:3:35:GLY:O	1.08	1.26
1:H:33:GLY:O	1:H:36:HIS:CD2	1.89	1.26
1:K:246:PRO:O	1:K:249:THR:HG22	1.30	1.26
1:F:257:ARG:HD3	1:R:35:GLY:O	1.09	1.26
1:2:246:PRO:O	1:2:249:THR:CG2	1.82	1.25
1:C:33:GLY:O	1:C:36:HIS:CD2	1.89	1.25
1:G:246:PRO:O	1:G:249:THR:HG22	1.30	1.25
1:S:33:GLY:O	1:S:36:HIS:CD2	1.89	1.25
1:Z:33:GLY:O	1:Z:36:HIS:CD2	1.89	1.25
1:1:33:GLY:O	1:1:36:HIS:CD2	1.89	1.25
1:M:34:VAL:HG23	1:2:36:HIS:NE2	1.47	1.25
1:7:246:PRO:O	1:7:249:THR:HG22	1.30	1.25
1:A:36:HIS:NE2	1:U:34:VAL:HG23	145.01	1.25
1:A:33:GLY:O	1:A:36:HIS:CD2	1.89	1.25
1:2:33:GLY:O	1:2:36:HIS:CD2	1.89	1.25
1:D:191:PHE:HE1	1:D:470:HIS:CE1	1.55	1.25
1:F:246:PRO:O	1:F:249:THR:HG22	1.30	1.25
1:G:33:GLY:O	1:G:36:HIS:CD2	1.89	1.25
1:M:191:PHE:HE1	1:M:470:HIS:CE1	1.55	1.25
1:U:33:GLY:O	1:U:36:HIS:CD2	1.89	1.25
1:W:191:PHE:HE1	1:W:470:HIS:CE1	1.55	1.25
1:7:191:PHE:HE1	1:7:470:HIS:CE1	1.55	1.25
1:K:33:GLY:O	1:K:36:HIS:CD2	1.89	1.25
1:Q:33:GLY:O	1:Q:36:HIS:CD2	1.89	1.25
1:V:191:PHE:HE1	1:V:470:HIS:CE1	1.55	1.25
1:2:191:PHE:HE1	1:2:470:HIS:CE1	1.55	1.25
1:4:33:GLY:O	1:4:36:HIS:CD2	1.89	1.25
1:F:33:GLY:O	1:F:36:HIS:CD2	1.89	1.25
1:L:33:GLY:O	1:L:36:HIS:CD2	1.89	1.25
1:N:33:GLY:O	1:N:36:HIS:CD2	1.89	1.25
1:Q:191:PHE:HE1	1:Q:470:HIS:CE1	1.55	1.25
1:R:191:PHE:HE1	1:R:470:HIS:CE1	1.55	1.25
1:W:33:GLY:O	1:W:36:HIS:CD2	1.89	1.25
1:B:36:HIS:NE2	1:C:34:VAL:HG23	8.50	1.25
1:W:246:PRO:O	1:W:249:THR:CG2	1.82	1.25
1:0:191:PHE:HE1	1:0:470:HIS:CE1	1.55	1.25
1:7:33:GLY:O	1:7:36:HIS:CD2	1.89	1.25
1:F:191:PHE:HE1	1:F:470:HIS:CE1	1.55	1.25
1:N:191:PHE:HE1	1:N:470:HIS:CE1	1.55	1.25
1:V:33:GLY:O	1:V:36:HIS:CD2	1.89	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:33:GLY:O	1:E:36:HIS:CD2	1.89	1.25
1:I:191:PHE:HE1	1:I:470:HIS:CE1	1.55	1.25
1:V:246:PRO:O	1:V:249:THR:HG22	1.30	1.25
1:X:191:PHE:HE1	1:X:470:HIS:CE1	1.55	1.25
1:Z:191:PHE:HE1	1:Z:470:HIS:CE1	1.55	1.25
1:2:246:PRO:O	1:2:249:THR:HG22	1.30	1.24
1:K:257:ARG:HD3	1:6:35:GLY:O	1.09	1.24
1:C:191:PHE:HE1	1:C:470:HIS:CE1	1.55	1.24
1:H:246:PRO:O	1:H:249:THR:HG22	1.30	1.24
1:O:33:GLY:O	1:O:36:HIS:CD2	1.89	1.24
1:P:33:GLY:O	1:P:36:HIS:CD2	1.89	1.24
1:T:191:PHE:HE1	1:T:470:HIS:CE1	1.55	1.24
1:P:257:ARG:HD3	1:U:35:GLY:O	103.54	1.24
1:B:33:GLY:O	1:B:36:HIS:CD2	1.89	1.24
1:S:191:PHE:HE1	1:S:470:HIS:CE1	1.55	1.24
1:T:33:GLY:O	1:T:36:HIS:CD2	1.89	1.24
1:Y:191:PHE:HE1	1:Y:470:HIS:CE1	1.55	1.24
1:1:191:PHE:HE1	1:1:470:HIS:CE1	1.55	1.24
1:U:35:GLY:O	1:4:257:ARG:HD3	1.09	1.24
1:J:33:GLY:O	1:J:36:HIS:CD2	1.89	1.24
1:M:35:GLY:O	1:2:257:ARG:HD3	19.09	1.24
1:X:34:VAL:CG2	1:5:36:HIS:NE2	2.00	1.24
1:G:257:ARG:HD3	1:N:35:GLY:O	148.88	1.24
1:I:33:GLY:O	1:I:36:HIS:CD2	1.89	1.24
1:H:34:VAL:HG23	1:L:36:HIS:NE2	96.56	1.24
1:3:33:GLY:O	1:3:36:HIS:CD2	1.89	1.24
1:5:33:GLY:O	1:5:36:HIS:CD2	1.89	1.24
1:N:257:ARG:HD3	1:S:35:GLY:O	100.98	1.24
1:L:191:PHE:HE1	1:L:470:HIS:CE1	1.55	1.24
1:A:35:GLY:O	1:U:257:ARG:HD3	147.86	1.24
1:J:191:PHE:HE1	1:J:470:HIS:CE1	1.55	1.24
1:K:191:PHE:HE1	1:K:470:HIS:CE1	1.55	1.24
1:L:257:ARG:HD3	1:R:35:GLY:O	154.02	1.24
1:P:35:GLY:O	1:Q:257:ARG:HD3	1.08	1.24
1:V:35:GLY:O	1:W:257:ARG:HD3	19.10	1.24
1:T:257:ARG:HD3	1:X:35:GLY:O	103.54	1.24
1:4:191:PHE:HE1	1:4:470:HIS:CE1	1.55	1.24
1:G:191:PHE:HE1	1:G:470:HIS:CE1	1.55	1.24
1:G:36:HIS:NE2	1:M:34:VAL:HG23	151.18	1.24
1:K:35:GLY:O	1:L:257:ARG:HD3	1.08	1.24
1:5:191:PHE:HE1	1:5:470:HIS:CE1	1.55	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:191:PHE:HE1	1:E:470:HIS:CE1	1.55	1.24
1:G:35:GLY:O	1:W:257:ARG:HD3	1.09	1.24
1:O:35:GLY:O	1:P:257:ARG:HD3	1.09	1.24
1:U:191:PHE:HE1	1:U:470:HIS:CE1	1.55	1.24
1:3:191:PHE:HE1	1:3:470:HIS:CE1	1.55	1.24
1:P:191:PHE:HE1	1:P:470:HIS:CE1	1.55	1.24
1:P:36:HIS:NE2	1:Q:34:VAL:CG2	2.03	1.24
1:X:33:GLY:O	1:X:36:HIS:CD2	1.89	1.24
1:A:191:PHE:HE1	1:A:470:HIS:CE1	1.55	1.23
1:D:34:VAL:CG2	1:E:36:HIS:NE2	2.02	1.23
1:H:35:GLY:O	1:I:257:ARG:HD3	1.09	1.23
1:O:191:PHE:HE1	1:O:470:HIS:CE1	1.55	1.23
1:H:257:ARG:HD3	1:Z:35:GLY:O	1.09	1.23
1:6:33:GLY:O	1:6:36:HIS:CD2	1.89	1.23
1:F:257:ARG:HD3	1:H:35:GLY:O	96.13	1.23
1:K:35:GLY:O	1:S:257:ARG:HD3	159.85	1.23
1:C:35:GLY:O	1:T:257:ARG:HD3	163.25	1.23
1:A:34:VAL:CG2	1:E:36:HIS:NE2	8.44	1.23
1:M:36:HIS:NE2	1:N:34:VAL:CG2	2.01	1.23
1:B:191:PHE:HE1	1:B:470:HIS:CE1	1.55	1.23
1:B:34:VAL:CG2	1:C:36:HIS:NE2	2.02	1.23
1:T:35:GLY:O	1:U:257:ARG:HD3	1.08	1.23
1:I:35:GLY:O	1:6:257:ARG:HD3	102.04	1.23
1:A:34:VAL:CG2	1:B:36:HIS:NE2	2.00	1.23
1:A:36:HIS:NE2	1:E:34:VAL:HG23	1.50	1.23
1:D:36:HIS:NE2	1:R:34:VAL:CG2	98.84	1.23
1:0:33:GLY:O	1:0:36:HIS:CD2	1.89	1.23
1:D:34:VAL:CG2	1:F:36:HIS:NE2	89.59	1.23
1:H:191:PHE:HE1	1:H:470:HIS:CE1	1.55	1.23
1:J:36:HIS:NE2	1:0:34:VAL:CG2	2.02	1.23
1:X:257:ARG:HD3	1:Y:35:GLY:O	19.09	1.23
1:F:36:HIS:NE2	1:G:34:VAL:CG2	2.02	1.23
1:I:35:GLY:O	1:J:257:ARG:HD3	1.08	1.23
1:M:34:VAL:CG2	1:2:36:HIS:NE2	2.02	1.23
1:G:35:GLY:O	1:M:257:ARG:HD3	159.60	1.23
1:H:257:ARG:HD3	1:L:35:GLY:O	103.55	1.23
1:N:36:HIS:NE2	1:Z:34:VAL:CG2	153.79	1.23
1:Q:36:HIS:NE2	1:S:34:VAL:CG2	2.02	1.23
1:O:36:HIS:NE2	1:V:34:VAL:CG2	96.96	1.23
1:I:257:ARG:HD3	1:1:35:GLY:O	110.40	1.23
1:E:257:ARG:HD3	1:Q:35:GLY:O	91.22	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:257:ARG:HD3	1:V:35:GLY:O	1.08	1.23
1:X:35:GLY:O	1:Y:257:ARG:HD3	1.08	1.23
1:2:93:GLY:O	1:2:96:THR:HG23	1.39	1.22
1:C:257:ARG:HD3	1:D:35:GLY:O	1.08	1.22
1:A:257:ARG:HD3	1:E:35:GLY:O	19.08	1.22
1:F:93:GLY:O	1:F:96:THR:HG23	1.39	1.22
1:T:35:GLY:O	1:5:257:ARG:HD3	101.00	1.22
1:H:34:VAL:CG2	1:L:36:HIS:NE2	96.69	1.22
1:I:36:HIS:NE2	1:J:34:VAL:CG2	2.02	1.22
1:M:93:GLY:O	1:M:96:THR:HG23	1.39	1.22
1:R:93:GLY:O	1:R:96:THR:HG23	1.39	1.22
1:X:257:ARG:HD3	1:5:35:GLY:O	1.10	1.22
1:H:93:GLY:O	1:H:96:THR:HG23	1.39	1.22
1:H:36:HIS:NE2	1:I:34:VAL:CG2	2.02	1.22
1:R:34:VAL:CG2	1:V:36:HIS:NE2	2.03	1.22
1:T:34:VAL:CG2	1:X:36:HIS:NE2	96.68	1.22
1:Z:257:ARG:HD3	1:0:35:GLY:O	1.08	1.22
1:Y:34:VAL:CG2	1:7:36:HIS:NE2	98.84	1.22
1:N:93:GLY:O	1:N:96:THR:HG23	1.39	1.22
1:Y:93:GLY:O	1:Y:96:THR:HG23	1.39	1.22
1:Y:257:ARG:HD3	1:7:35:GLY:O	110.40	1.22
1:B:93:GLY:O	1:B:96:THR:HG23	1.39	1.22
1:G:36:HIS:NE2	1:M:34:VAL:CG2	152.11	1.22
1:O:36:HIS:NE2	1:P:34:VAL:CG2	2.01	1.22
1:6:191:PHE:HE1	1:6:470:HIS:CE1	1.55	1.22
1:W:36:HIS:NE2	1:7:34:VAL:CG2	148.43	1.22
1:M:246:PRO:O	1:M:249:THR:HG22	1.30	1.22
1:K:36:HIS:NE2	1:S:34:VAL:CG2	151.54	1.22
1:P:34:VAL:CG2	1:U:36:HIS:NE2	96.68	1.22
1:G:36:HIS:NE2	1:W:34:VAL:CG2	2.02	1.22
1:V:34:VAL:CG2	1:W:36:HIS:NE2	2.02	1.22
1:A:35:GLY:O	1:E:257:ARG:HD3	1.06	1.22
1:G:93:GLY:O	1:G:96:THR:HG23	1.39	1.22
1:L:93:GLY:O	1:L:96:THR:HG23	1.39	1.22
1:M:257:ARG:HD3	1:2:35:GLY:O	1.08	1.22
1:O:35:GLY:O	1:V:257:ARG:HD3	110.60	1.22
1:V:36:HIS:NE2	1:W:34:VAL:CG2	8.45	1.22
1:D:257:ARG:HD3	1:F:35:GLY:O	87.22	1.22
1:M:35:GLY:O	1:N:257:ARG:HD3	1.09	1.22
1:F:35:GLY:O	1:G:257:ARG:HD3	1.09	1.22
1:G:34:VAL:CG2	1:N:36:HIS:NE2	148.43	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:36:HIS:NE2	1:U:34:VAL:CG2	145.91	1.22
1:M:36:HIS:NE2	1:2:34:VAL:CG2	8.45	1.22
1:A:257:ARG:HD3	1:B:35:GLY:O	1.09	1.22
1:J:35:GLY:O	1:0:257:ARG:HD3	1.09	1.22
1:J:36:HIS:NE2	1:K:34:VAL:CG2	86.82	1.22
1:N:34:VAL:CG2	1:S:36:HIS:NE2	93.41	1.22
1:V:93:GLY:O	1:V:96:THR:HG23	1.39	1.21
1:T:36:HIS:NE2	1:5:34:VAL:CG2	93.44	1.21
1:K:93:GLY:O	1:K:96:THR:HG23	1.39	1.21
1:T:93:GLY:O	1:T:96:THR:HG23	1.39	1.21
1:1:93:GLY:O	1:1:96:THR:HG23	1.39	1.21
1:C:93:GLY:O	1:C:96:THR:HG23	1.39	1.21
1:L:34:VAL:CG2	1:R:36:HIS:NE2	148.47	1.21
1:C:36:HIS:NE2	1:T:34:VAL:CG2	152.91	1.21
1:T:36:HIS:NE2	1:U:34:VAL:CG2	2.02	1.21
1:Z:34:VAL:CG2	1:0:36:HIS:NE2	2.03	1.21
1:B:257:ARG:HD3	1:C:35:GLY:O	1.09	1.21
1:O:93:GLY:O	1:O:96:THR:HG23	1.39	1.21
1:4:93:GLY:O	1:4:96:THR:HG23	1.39	1.21
1:D:35:GLY:O	1:R:257:ARG:HD3	110.40	1.21
1:E:34:VAL:CG2	1:Q:36:HIS:NE2	91.42	1.21
1:X:93:GLY:O	1:X:96:THR:HG23	1.39	1.21
1:X:36:HIS:NE2	1:Y:34:VAL:CG2	2.03	1.21
1:0:93:GLY:O	1:0:96:THR:HG23	1.39	1.21
1:L:36:HIS:NE2	1:1:34:VAL:CG2	2.02	1.21
1:A:37:SER:OG	1:E:257:ARG:HG2	1.05	1.21
1:B:35:GLY:O	1:C:257:ARG:HD3	19.09	1.21
1:I:34:VAL:CG2	1:1:36:HIS:NE2	98.84	1.21
1:I:36:HIS:NE2	1:6:34:VAL:CG2	91.76	1.21
1:O:34:VAL:CG2	1:3:36:HIS:NE2	2.03	1.21
1:H:34:VAL:CG2	1:Z:36:HIS:NE2	2.02	1.21
1:C:34:VAL:CG2	1:D:36:HIS:NE2	2.03	1.21
1:D:257:ARG:HD3	1:E:35:GLY:O	1.09	1.21
1:F:34:VAL:CG2	1:H:36:HIS:NE2	90.44	1.21
1:I:93:GLY:O	1:I:96:THR:HG23	1.39	1.21
1:F:34:VAL:CG2	1:R:36:HIS:NE2	2.02	1.21
1:X:34:VAL:CG2	1:Y:36:HIS:NE2	8.45	1.21
1:K:34:VAL:CG2	1:6:36:HIS:NE2	2.01	1.21
1:B:36:HIS:NE2	1:C:34:VAL:CG2	8.44	1.21
1:B:37:SER:HA	1:C:257:ARG:CD	23.02	1.21
1:J:93:GLY:O	1:J:96:THR:HG23	1.39	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:34:VAL:CG2	1:Y:36:HIS:NE2	153.79	1.21
1:D:93:GLY:O	1:D:96:THR:HG23	1.39	1.20
1:K:36:HIS:NE2	1:L:34:VAL:CG2	2.03	1.20
1:W:93:GLY:O	1:W:96:THR:HG23	1.39	1.20
1:3:93:GLY:O	1:3:96:THR:HG23	1.39	1.20
1:U:36:HIS:NE2	1:4:34:VAL:CG2	2.01	1.20
1:Q:93:GLY:O	1:Q:96:THR:HG23	1.39	1.20
1:S:36:HIS:NE2	1:3:34:VAL:CG2	2.02	1.20
1:4:246:PRO:O	1:4:249:THR:HG22	1.30	1.20
1:A:93:GLY:O	1:A:96:THR:HG23	1.39	1.20
1:U:93:GLY:O	1:U:96:THR:HG23	1.39	1.20
1:X:257:ARG:CD	1:5:37:SER:HA	1.72	1.20
1:7:93:GLY:O	1:7:96:THR:HG23	1.39	1.20
1:A:257:ARG:CD	1:B:37:SER:HA	1.72	1.20
1:P:93:GLY:O	1:P:96:THR:HG23	1.39	1.20
1:J:34:VAL:CG2	1:Z:36:HIS:NE2	8.54	1.20
1:Z:93:GLY:O	1:Z:96:THR:HG23	1.39	1.20
1:L:257:ARG:HG2	1:R:37:SER:OG	151.68	1.19
1:E:93:GLY:O	1:E:96:THR:HG23	1.39	1.19
1:O:257:ARG:HG2	1:Y:37:SER:OG	164.46	1.19
1:B:257:ARG:HD3	1:4:35:GLY:O	164.14	1.19
1:D:37:SER:HA	1:R:257:ARG:CD	112.55	1.19
1:L:37:SER:HA	1:1:257:ARG:CD	1.73	1.19
1:M:37:SER:HA	1:N:257:ARG:CD	1.73	1.19
1:O:257:ARG:HG2	1:3:37:SER:OG	1.02	1.19
1:F:257:ARG:HG2	1:R:37:SER:OG	1.01	1.19
1:C:37:SER:HA	1:T:257:ARG:CD	164.08	1.19
1:W:37:SER:HA	1:7:257:ARG:CD	146.36	1.19
1:Y:257:ARG:HG2	1:7:37:SER:OG	114.51	1.19
1:G:37:SER:OG	1:M:257:ARG:HG2	160.28	1.19
1:G:257:ARG:HG2	1:N:37:SER:OG	147.80	1.19
1:R:257:ARG:HG2	1:V:37:SER:OG	1.02	1.19
1:X:257:ARG:CD	1:Y:37:SER:HA	23.02	1.19
1:H:257:ARG:CD	1:Z:37:SER:HA	1.73	1.19
1:J:37:SER:HA	1:0:257:ARG:CD	1.73	1.19
1:V:257:ARG:CD	1:W:37:SER:HA	1.73	1.19
1:A:37:SER:HA	1:U:257:ARG:CD	145.02	1.19
1:D:37:SER:OG	1:R:257:ARG:HG2	114.51	1.19
1:I:257:ARG:CD	1:1:37:SER:HA	112.55	1.19
1:J:37:SER:OG	1:0:257:ARG:HG2	1.01	1.19
1:P:37:SER:OG	1:Q:257:ARG:HG2	1.02	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:93:GLY:O	1:6:96:THR:HG23	1.39	1.19
1:H:257:ARG:HG2	1:L:37:SER:OG	107.23	1.19
1:J:37:SER:HA	1:K:257:ARG:CD	82.03	1.19
1:J:37:SER:OG	1:K:257:ARG:HG2	79.85	1.19
1:P:257:ARG:CD	1:U:37:SER:HA	103.43	1.19
1:O:257:ARG:CD	1:3:37:SER:HA	1.73	1.19
1:B:257:ARG:HG2	1:4:37:SER:OG	166.43	1.19
1:M:37:SER:OG	1:N:257:ARG:HG2	1.01	1.19
1:P:257:ARG:HG2	1:U:37:SER:OG	107.23	1.19
1:B:34:VAL:HG23	1:4:36:HIS:NE2	153.39	1.18
1:A:36:HIS:NE2	1:E:34:VAL:CG2	2.06	1.18
1:K:257:ARG:HG2	1:6:37:SER:OG	1.01	1.18
1:N:257:ARG:HG2	1:S:37:SER:OG	101.05	1.18
1:U:37:SER:OG	1:4:257:ARG:HG2	1.01	1.18
1:B:37:SER:OG	1:C:257:ARG:HG2	25.48	1.18
1:R:257:ARG:CD	1:V:37:SER:HA	1.74	1.18
1:U:37:SER:HA	1:4:257:ARG:CD	1.72	1.18
1:V:37:SER:OG	1:W:257:ARG:HG2	25.49	1.18
1:X:257:ARG:HG2	1:5:37:SER:OG	1.00	1.18
1:T:37:SER:OG	1:5:257:ARG:HG2	101.07	1.18
1:5:93:GLY:O	1:5:96:THR:HG23	1.39	1.18
1:K:257:ARG:CD	1:6:37:SER:HA	1.72	1.18
1:F:37:SER:HA	1:G:257:ARG:CD	1.73	1.18
1:I:37:SER:HA	1:J:257:ARG:CD	1.73	1.18
1:O:37:SER:HA	1:V:257:ARG:CD	112.90	1.18
1:Y:257:ARG:CD	1:7:37:SER:HA	112.55	1.18
1:F:257:ARG:HG2	1:H:37:SER:OG	93.14	1.18
1:K:37:SER:HA	1:L:257:ARG:CD	1.74	1.18
1:G:37:SER:OG	1:W:257:ARG:HG2	1.01	1.18
1:J:257:ARG:HG2	1:Z:37:SER:OG	25.27	1.18
1:S:37:SER:OG	1:3:257:ARG:HG2	1.01	1.18
1:A:257:ARG:CG	1:B:37:SER:OG	1.92	1.18
1:O:37:SER:OG	1:P:257:ARG:CG	1.92	1.18
1:S:93:GLY:O	1:S:96:THR:HG23	1.39	1.18
1:T:37:SER:HA	1:5:257:ARG:CD	102.66	1.18
1:A:37:SER:OG	1:U:257:ARG:CG	143.82	1.18
1:D:257:ARG:CD	1:F:37:SER:HA	83.90	1.18
1:O:37:SER:HA	1:P:257:ARG:CD	1.72	1.18
1:O:37:SER:OG	1:V:257:ARG:HG2	113.00	1.18
1:A:257:ARG:CD	1:E:37:SER:HA	23.01	1.17
1:F:37:SER:OG	1:G:257:ARG:CG	1.93	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:37:SER:OG	1:V:257:ARG:CG	112.50	1.17
1:Z:257:ARG:HG2	1:O:37:SER:OG	1.02	1.17
1:B:257:ARG:CD	1:C:37:SER:HA	1.73	1.17
1:M:257:ARG:CD	1:2:37:SER:HA	1.73	1.17
1:Q:37:SER:OG	1:S:257:ARG:CG	1.93	1.17
1:F:37:SER:OG	1:G:257:ARG:HG2	1.01	1.17
1:N:37:SER:OG	1:Z:257:ARG:CG	164.32	1.17
1:O:257:ARG:CG	1:Y:37:SER:OG	164.33	1.17
1:I:37:SER:OG	1:J:257:ARG:HG2	1.02	1.17
1:K:37:SER:OG	1:S:257:ARG:CG	159.71	1.17
1:G:257:ARG:CD	1:N:37:SER:HA	146.36	1.17
1:F:257:ARG:CG	1:R:37:SER:OG	1.93	1.17
1:K:37:SER:HA	1:S:257:ARG:CD	159.37	1.17
1:V:37:SER:HA	1:W:257:ARG:CD	23.03	1.17
1:X:37:SER:OG	1:Y:257:ARG:HG2	1.02	1.17
1:A:257:ARG:CG	1:E:37:SER:OG	24.60	1.17
1:G:37:SER:HA	1:W:257:ARG:CD	1.73	1.17
1:L:257:ARG:CD	1:R:37:SER:HA	153.37	1.17
1:M:37:SER:OG	1:2:257:ARG:HG2	25.49	1.17
1:C:257:ARG:HG2	1:D:37:SER:OG	1.02	1.17
1:F:257:ARG:CD	1:R:37:SER:HA	1.72	1.17
1:O:257:ARG:CD	1:Y:37:SER:HA	161.67	1.17
1:E:257:ARG:HG2	1:Q:37:SER:OG	89.91	1.17
1:H:257:ARG:HG2	1:Z:37:SER:OG	1.01	1.17
1:A:257:ARG:HG2	1:E:37:SER:OG	25.48	1.17
1:G:37:SER:HA	1:M:257:ARG:CD	159.14	1.17
1:L:37:SER:OG	1:1:257:ARG:HG2	1.01	1.17
1:P:37:SER:HA	1:Q:257:ARG:CD	1.74	1.17
1:T:257:ARG:HG2	1:X:37:SER:OG	107.23	1.17
1:Z:257:ARG:CD	1:O:37:SER:HA	1.74	1.17
1:B:257:ARG:HG2	1:C:37:SER:OG	1.01	1.17
1:B:257:ARG:CG	1:C:37:SER:OG	1.93	1.17
1:K:37:SER:OG	1:L:257:ARG:HG2	1.02	1.17
1:H:257:ARG:CD	1:L:37:SER:HA	103.43	1.17
1:N:37:SER:HA	1:Z:257:ARG:CD	161.66	1.17
1:C:37:SER:OG	1:T:257:ARG:CG	164.67	1.17
1:Q:37:SER:HA	1:S:257:ARG:CD	1.73	1.17
1:T:257:ARG:CD	1:X:37:SER:HA	103.43	1.17
1:A:37:SER:OG	1:U:257:ARG:HG2	143.18	1.17
1:D:257:ARG:CD	1:E:37:SER:HA	1.73	1.17
1:H:37:SER:HA	1:I:257:ARG:CD	1.73	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:257:ARG:HG2	1:2:37:SER:OG	1.02	1.17
1:X:257:ARG:HG2	1:Y:37:SER:OG	25.49	1.17
1:X:37:SER:HA	1:Y:257:ARG:CD	1.74	1.17
1:X:257:ARG:CG	1:Y:37:SER:OG	24.61	1.17
1:H:257:ARG:CG	1:Z:37:SER:OG	1.93	1.17
1:I:257:ARG:HG2	1:1:37:SER:OG	114.51	1.16
1:K:37:SER:OG	1:S:257:ARG:HG2	159.74	1.16
1:O:37:SER:OG	1:P:257:ARG:HG2	1.01	1.16
1:N:257:ARG:CG	1:S:37:SER:OG	101.41	1.16
1:T:37:SER:OG	1:U:257:ARG:HG2	1.02	1.16
1:I:257:ARG:CG	1:1:37:SER:OG	114.11	1.16
1:I:37:SER:OG	1:6:257:ARG:HG2	100.14	1.16
1:D:257:ARG:HG2	1:E:37:SER:OG	1.01	1.16
1:D:257:ARG:HG2	1:F:37:SER:OG	85.42	1.16
1:H:37:SER:OG	1:I:257:ARG:HG2	1.01	1.16
1:G:257:ARG:CG	1:N:37:SER:OG	148.24	1.16
1:Q:37:SER:OG	1:S:257:ARG:HG2	1.01	1.16
1:T:37:SER:HA	1:U:257:ARG:CD	1.73	1.16
1:I:37:SER:HA	1:6:257:ARG:CD	101.55	1.16
1:J:257:ARG:CD	1:Z:37:SER:HA	23.23	1.16
1:X:257:ARG:CG	1:5:37:SER:OG	1.91	1.16
1:G:37:SER:OG	1:W:257:ARG:CG	1.93	1.16
1:P:37:SER:OG	1:Q:257:ARG:CG	1.94	1.16
1:S:37:SER:HA	1:3:257:ARG:CD	1.73	1.16
1:P:257:ARG:CG	1:U:37:SER:OG	106.54	1.16
1:V:257:ARG:HG2	1:W:37:SER:OG	1.01	1.16
1:V:37:SER:OG	1:W:257:ARG:CG	24.62	1.16
1:C:257:ARG:CG	1:D:37:SER:OG	1.93	1.16
1:M:37:SER:OG	1:N:257:ARG:CG	1.92	1.16
1:L:257:ARG:CG	1:R:37:SER:OG	152.26	1.16
1:N:37:SER:OG	1:Z:257:ARG:HG2	164.46	1.16
1:D:37:SER:OG	1:R:257:ARG:CG	114.11	1.16
1:E:257:ARG:CD	1:Q:37:SER:HA	89.46	1.16
1:B:34:VAL:CG2	1:4:36:HIS:NE2	154.05	1.16
1:C:257:ARG:CD	1:D:37:SER:HA	1.74	1.16
1:C:37:SER:OG	1:T:257:ARG:HG2	164.57	1.16
1:H:257:ARG:CG	1:L:37:SER:OG	106.54	1.16
1:E:257:ARG:CG	1:Q:37:SER:OG	90.47	1.16
1:W:37:SER:OG	1:7:257:ARG:HG2	147.80	1.16
1:A:257:ARG:HG2	1:B:37:SER:OG	1.00	1.16
1:M:37:SER:HA	1:2:257:ARG:CD	23.02	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:37:SER:OG	1:7:257:ARG:CG	148.24	1.16
1:D:257:ARG:CG	1:E:37:SER:OG	1.92	1.16
1:G:37:SER:OG	1:M:257:ARG:CG	160.46	1.16
1:I:37:SER:OG	1:J:257:ARG:CG	1.93	1.16
1:J:37:SER:OG	1:K:257:ARG:CG	80.31	1.16
1:L:37:SER:OG	1:1:257:ARG:CG	1.93	1.16
1:M:37:SER:OG	1:2:257:ARG:CG	24.61	1.16
1:S:37:SER:OG	1:3:257:ARG:CG	1.93	1.15
1:V:257:ARG:CG	1:W:37:SER:OG	1.92	1.15
1:J:257:ARG:CG	1:Z:37:SER:OG	24.39	1.15
1:J:37:SER:OG	1:0:257:ARG:CG	1.92	1.15
1:U:37:SER:OG	1:4:257:ARG:CG	1.92	1.15
1:A:37:SER:HA	1:E:257:ARG:CD	1.76	1.15
1:F:257:ARG:CD	1:H:37:SER:HA	93.43	1.15
1:O:257:ARG:CG	1:3:37:SER:OG	1.94	1.15
1:K:257:ARG:CG	1:6:37:SER:OG	1.92	1.15
1:H:37:SER:OG	1:I:257:ARG:CG	1.92	1.15
1:T:37:SER:OG	1:U:257:ARG:CG	1.93	1.15
1:Z:257:ARG:CG	1:0:37:SER:OG	1.93	1.15
1:I:37:SER:OG	1:6:257:ARG:CG	99.57	1.15
1:X:37:SER:OG	1:Y:257:ARG:CG	1.94	1.15
1:Y:257:ARG:CG	1:7:37:SER:OG	114.11	1.15
1:F:257:ARG:CG	1:H:37:SER:OG	92.65	1.15
1:K:37:SER:OG	1:L:257:ARG:CG	1.93	1.15
1:T:37:SER:OG	1:5:257:ARG:CG	101.43	1.15
1:R:257:ARG:CG	1:V:37:SER:OG	1.93	1.15
1:D:257:ARG:CG	1:F:37:SER:OG	85.44	1.15
1:T:257:ARG:CG	1:X:37:SER:OG	106.54	1.15
1:M:257:ARG:CG	1:2:37:SER:OG	1.93	1.14
1:N:257:ARG:CD	1:S:37:SER:HA	102.64	1.14
1:B:257:ARG:CD	1:4:37:SER:HA	164.23	1.13
1:A:37:SER:OG	1:E:257:ARG:CG	1.96	1.13
1:B:98:ASN:CB	1:L:316:ARG:NH2	2.12	1.13
1:K:316:ARG:NH2	1:L:98:ASN:CB	80.29	1.13
1:G:98:ASN:CB	1:O:316:ARG:NH2	202.35	1.13
1:B:37:SER:OG	1:C:257:ARG:CG	24.61	1.13
1:D:98:ASN:CB	1:P:316:ARG:NH2	2.12	1.13
1:C:98:ASN:CB	1:M:316:ARG:NH2	2.12	1.13
1:Q:98:ASN:CB	1:S:316:ARG:NH2	100.61	1.13
1:A:98:ASN:CB	1:I:316:ARG:NH2	2.12	1.12
1:C:316:ARG:NH2	1:D:98:ASN:CB	100.60	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:316:ARG:NH2	1:O:98:ASN:CB	208.26	1.12
1:T:98:ASN:CB	1:V:316:ARG:NH2	102.50	1.12
1:B:257:ARG:CG	1:4:37:SER:OG	166.15	1.12
1:D:316:ARG:NH2	1:E:98:ASN:CB	100.60	1.12
1:E:98:ASN:CB	1:F:316:ARG:NH2	2.12	1.12
1:G:316:ARG:NH2	1:I:98:ASN:CB	2.12	1.12
1:K:98:ASN:CB	1:M:316:ARG:NH2	125.86	1.12
1:J:316:ARG:NH2	1:L:98:ASN:CB	2.12	1.12
1:M:98:ASN:CB	1:1:316:ARG:NH2	2.12	1.12
1:O:316:ARG:NH2	1:P:98:ASN:CB	80.29	1.12
1:K:98:ASN:CB	1:7:316:ARG:NH2	2.12	1.12
1:A:316:ARG:NH2	1:5:98:ASN:CB	175.50	1.12
1:0:316:ARG:NH2	1:7:98:ASN:CB	2.12	1.12
1:V:316:ARG:NH2	1:4:98:ASN:CB	2.12	1.12
1:R:98:ASN:CB	1:U:316:ARG:NH2	2.12	1.12
1:F:98:ASN:CB	1:3:316:ARG:NH2	165.50	1.12
1:V:98:ASN:CB	1:X:316:ARG:NH2	2.12	1.12
1:J:316:ARG:NH2	1:2:98:ASN:CB	127.17	1.12
1:I:316:ARG:NH2	1:J:98:ASN:CB	80.30	1.12
1:T:316:ARG:NH2	1:U:98:ASN:CB	80.30	1.12
1:H:316:ARG:NH2	1:W:98:ASN:CB	2.12	1.12
1:W:98:ASN:CB	1:X:316:ARG:NH2	64.48	1.12
1:Y:98:ASN:CB	1:6:316:ARG:NH2	185.28	1.12
1:M:33:GLY:O	1:M:36:HIS:HD2	1.28	1.12
1:T:316:ARG:NH2	1:3:98:ASN:CB	2.12	1.12
1:X:98:ASN:CB	1:4:316:ARG:NH2	2.12	1.12
1:K:316:ARG:NH2	1:0:98:ASN:CB	2.12	1.11
1:R:316:ARG:NH2	1:S:98:ASN:CB	2.12	1.11
1:Q:316:ARG:NH2	1:R:98:ASN:CB	64.48	1.11
1:B:316:ARG:NH2	1:J:98:ASN:CB	2.12	1.11
1:D:316:ARG:NH2	1:N:98:ASN:CB	2.12	1.11
1:D:33:GLY:O	1:D:36:HIS:HD2	1.28	1.11
1:C:98:ASN:CB	1:E:316:ARG:NH2	131.70	1.11
1:E:316:ARG:NH2	1:Q:98:ASN:CB	2.12	1.11
1:F:98:ASN:CB	1:Q:316:ARG:NH2	2.12	1.11
1:N:98:ASN:CB	1:P:316:ARG:NH2	42.60	1.11
1:N:316:ARG:NH2	1:O:98:ASN:CB	64.48	1.11
1:Y:316:ARG:NH2	1:Z:98:ASN:CB	64.48	1.11
1:Z:316:ARG:NH2	1:6:98:ASN:CB	162.12	1.11
1:X:33:GLY:C	1:5:36:HIS:HE1	1.53	1.11
1:G:316:ARG:NH2	1:H:98:ASN:CB	64.48	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:98:ASN:CB	1:Y:316:ARG:NH2	2.12	1.11
1:O:36:HIS:HE1	1:P:33:GLY:C	1.54	1.11
1:H:33:GLY:C	1:Z:36:HIS:HE1	1.54	1.11
1:C:316:ARG:NH2	1:1:98:ASN:CB	2.12	1.11
1:S:316:ARG:NH2	1:U:98:ASN:CB	2.12	1.11
1:X:33:GLY:C	1:Y:36:HIS:HE1	10.95	1.11
1:7:33:GLY:O	1:7:36:HIS:HD2	1.28	1.11
1:L:316:ARG:NH2	1:M:98:ASN:CB	104.10	1.11
1:V:33:GLY:O	1:V:36:HIS:HD2	1.29	1.11
1:X:98:ASN:CB	1:Z:316:ARG:NH2	102.50	1.11
1:F:316:ARG:NH2	1:T:98:ASN:CB	162.13	1.11
1:N:316:ARG:NH2	1:P:98:ASN:CB	2.12	1.11
1:I:98:ASN:CB	1:2:316:ARG:NH2	185.28	1.10
1:A:33:GLY:C	1:E:36:HIS:HE1	10.95	1.10
1:D:33:GLY:C	1:E:36:HIS:HE1	1.55	1.10
1:P:36:HIS:HE1	1:Q:33:GLY:C	1.55	1.10
1:O:33:GLY:C	1:3:36:HIS:HE1	1.55	1.10
1:G:244:PHE:CE2	1:G:246:PRO:HB3	1.87	1.10
1:J:36:HIS:HE1	1:K:33:GLY:C	84.10	1.10
1:K:36:HIS:HE1	1:S:33:GLY:C	152.16	1.10
1:L:244:PHE:CE2	1:L:246:PRO:HB3	1.87	1.10
1:1:244:PHE:CE2	1:1:246:PRO:HB3	1.87	1.10
1:C:244:PHE:CE2	1:C:246:PRO:HB3	1.87	1.10
1:H:33:GLY:O	1:H:36:HIS:HD2	1.28	1.10
1:U:316:ARG:NH2	1:V:98:ASN:CB	64.48	1.10
1:D:244:PHE:CE2	1:D:246:PRO:HB3	1.87	1.10
1:E:244:PHE:CE2	1:E:246:PRO:HB3	1.87	1.10
1:J:244:PHE:CE2	1:J:246:PRO:HB3	1.87	1.10
1:J:33:GLY:O	1:J:36:HIS:HD2	1.28	1.10
1:K:244:PHE:CE2	1:K:246:PRO:HB3	1.87	1.10
1:M:244:PHE:CE2	1:M:246:PRO:HB3	1.87	1.10
1:O:244:PHE:CE2	1:O:246:PRO:HB3	1.87	1.10
1:R:244:PHE:CE2	1:R:246:PRO:HB3	1.87	1.10
1:F:36:HIS:HE1	1:G:33:GLY:C	1.55	1.10
1:O:36:HIS:HE1	1:V:33:GLY:C	94.51	1.10
1:S:33:GLY:O	1:S:36:HIS:HD2	1.28	1.10
1:U:33:GLY:O	1:U:36:HIS:HD2	1.28	1.10
1:Y:244:PHE:CE2	1:Y:246:PRO:HB3	1.87	1.10
1:M:33:GLY:C	1:2:36:HIS:HE1	1.55	1.10
1:3:244:PHE:CE2	1:3:246:PRO:HB3	1.87	1.10
1:F:33:GLY:O	1:F:36:HIS:HD2	1.28	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:33:GLY:C	1:F:36:HIS:HE1	92.62	1.10
1:N:244:PHE:CE2	1:N:246:PRO:HB3	1.87	1.10
1:Q:244:PHE:CE2	1:Q:246:PRO:HB3	1.87	1.10
1:Z:244:PHE:CE2	1:Z:246:PRO:HB3	1.87	1.10
1:Z:33:GLY:C	1:O:36:HIS:HE1	1.55	1.10
1:Y:33:GLY:C	1:7:36:HIS:HE1	98.11	1.10
1:A:244:PHE:CE2	1:A:246:PRO:HB3	1.87	1.10
1:A:36:HIS:HE1	1:U:33:GLY:C	144.07	1.10
1:V:244:PHE:CE2	1:V:246:PRO:HB3	1.87	1.10
1:R:33:GLY:C	1:V:36:HIS:HE1	1.55	1.10
1:X:33:GLY:O	1:X:36:HIS:HD2	1.28	1.10
1:0:244:PHE:CE2	1:0:246:PRO:HB3	1.87	1.10
1:3:33:GLY:O	1:3:36:HIS:HD2	1.28	1.10
1:O:33:GLY:O	1:O:36:HIS:HD2	1.28	1.10
1:X:244:PHE:CE2	1:X:246:PRO:HB3	1.86	1.10
1:X:36:HIS:HE1	1:Y:33:GLY:C	1.55	1.10
1:B:244:PHE:CE2	1:B:246:PRO:HB3	1.87	1.10
1:B:35:GLY:O	1:C:257:ARG:CD	19.98	1.10
1:I:244:PHE:CE2	1:I:246:PRO:HB3	1.87	1.10
1:J:36:HIS:HE1	1:0:33:GLY:C	1.55	1.10
1:Q:33:GLY:O	1:Q:36:HIS:HD2	1.28	1.10
1:B:257:ARG:CD	1:4:35:GLY:O	164.72	1.10
1:B:33:GLY:C	1:C:36:HIS:HE1	1.54	1.10
1:H:36:HIS:HE1	1:I:33:GLY:C	1.55	1.10
1:N:36:HIS:HE1	1:Z:33:GLY:C	156.11	1.10
1:Z:33:GLY:O	1:Z:36:HIS:HD2	1.28	1.10
1:6:33:GLY:O	1:6:36:HIS:HD2	1.28	1.09
1:Q:36:HIS:HE1	1:S:33:GLY:C	1.54	1.09
1:T:36:HIS:HE1	1:5:33:GLY:C	89.49	1.09
1:U:244:PHE:CE2	1:U:246:PRO:HB3	1.87	1.09
1:T:244:PHE:CE2	1:T:246:PRO:HB3	1.87	1.09
1:W:316:ARG:NH2	1:Y:98:ASN:CB	2.12	1.09
1:T:33:GLY:C	1:X:36:HIS:HE1	99.79	1.09
1:G:36:HIS:HE1	1:M:33:GLY:C	151.28	1.09
1:S:244:PHE:CE2	1:S:246:PRO:HB3	1.87	1.09
1:W:316:ARG:NH2	1:Z:98:ASN:CB	72.66	1.09
1:V:33:GLY:C	1:W:36:HIS:HE1	1.55	1.09
1:A:528:TRP:HB2	1:G:246:PRO:HG3	1.34	1.09
1:W:36:HIS:HE1	1:7:33:GLY:C	150.15	1.09
1:B:98:ASN:CB	1:5:316:ARG:NH2	235.64	1.09
1:A:316:ARG:NH2	1:G:98:ASN:CB	2.13	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:33:GLY:C	1:N:36:HIS:HE1	150.15	1.09
1:P:244:PHE:CE2	1:P:246:PRO:HB3	1.87	1.09
1:2:244:PHE:CE2	1:2:246:PRO:HB3	1.86	1.09
1:L:33:GLY:C	1:R:36:HIS:HE1	146.06	1.09
1:W:244:PHE:CE2	1:W:246:PRO:HB3	1.87	1.09
1:F:244:PHE:CE2	1:F:246:PRO:HB3	1.87	1.09
1:T:36:HIS:HE1	1:U:33:GLY:C	1.55	1.09
1:7:244:PHE:CE2	1:7:246:PRO:HB3	1.87	1.09
1:I:36:HIS:HE1	1:6:33:GLY:C	88.64	1.09
1:L:36:HIS:HE1	1:1:33:GLY:C	1.54	1.09
1:H:33:GLY:C	1:L:36:HIS:HE1	99.79	1.09
1:I:36:HIS:HE1	1:J:33:GLY:C	1.55	1.09
1:P:33:GLY:C	1:U:36:HIS:HE1	99.79	1.09
1:S:36:HIS:HE1	1:3:33:GLY:C	1.55	1.09
1:A:33:GLY:C	1:B:36:HIS:HE1	1.56	1.08
1:U:36:HIS:HE1	1:4:33:GLY:C	1.54	1.08
1:4:244:PHE:CE2	1:4:246:PRO:HB3	1.87	1.08
1:K:33:GLY:C	1:6:36:HIS:HE1	1.55	1.08
1:H:244:PHE:CE2	1:H:246:PRO:HB3	1.87	1.08
1:M:36:HIS:HE1	1:2:33:GLY:C	10.94	1.08
1:N:33:GLY:C	1:S:36:HIS:HE1	89.46	1.08
1:5:244:PHE:CE2	1:5:246:PRO:HB3	1.87	1.08
1:6:244:PHE:CE2	1:6:246:PRO:HB3	1.87	1.08
1:J:33:GLY:C	1:Z:36:HIS:HE1	11.89	1.08
1:A:35:GLY:O	1:E:257:ARG:CD	2.01	1.08
1:A:36:HIS:HE1	1:E:33:GLY:C	1.56	1.08
1:F:33:GLY:C	1:H:36:HIS:HE1	88.80	1.08
1:I:33:GLY:C	1:1:36:HIS:HE1	98.11	1.08
1:G:33:GLY:O	1:G:36:HIS:HD2	1.28	1.08
1:L:33:GLY:O	1:L:36:HIS:HD2	1.28	1.08
1:C:36:HIS:HE1	1:T:33:GLY:C	151.11	1.08
1:G:36:HIS:HE1	1:W:33:GLY:C	1.55	1.08
1:K:36:HIS:HE1	1:L:33:GLY:C	1.55	1.08
1:P:33:GLY:O	1:P:36:HIS:HD2	1.28	1.08
1:V:36:HIS:HE1	1:W:33:GLY:C	10.95	1.08
1:F:33:GLY:C	1:R:36:HIS:HE1	1.54	1.07
1:O:33:GLY:C	1:Y:36:HIS:HE1	156.11	1.07
1:A:246:PRO:HG3	1:B:528:TRP:HB2	35.90	1.07
1:E:33:GLY:O	1:E:36:HIS:HD2	1.28	1.07
1:D:246:PRO:HG3	1:P:528:TRP:HB2	1.37	1.07
1:X:257:ARG:CD	1:5:37:SER:CA	2.31	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:528:TRP:HB2	1:V:246:PRO:HG3	45.07	1.07
1:B:36:HIS:HE1	1:C:33:GLY:C	10.94	1.07
1:K:35:GLY:O	1:L:257:ARG:CD	2.03	1.07
1:B:37:SER:CA	1:C:257:ARG:CD	23.24	1.07
1:C:246:PRO:HG3	1:E:528:TRP:HB2	73.90	1.07
1:A:528:TRP:CB	1:G:246:PRO:HG3	1.84	1.07
1:Q:246:PRO:HG3	1:S:528:TRP:HB2	101.16	1.07
1:V:35:GLY:O	1:W:257:ARG:CD	19.99	1.07
1:C:528:TRP:HB2	1:I:246:PRO:HG3	1.37	1.07
1:J:37:SER:CA	1:O:257:ARG:CD	2.32	1.07
1:G:35:GLY:O	1:W:257:ARG:CD	2.03	1.07
1:M:36:HIS:HE1	1:N:33:GLY:C	1.55	1.07
1:N:35:GLY:O	1:Z:257:ARG:CD	161.87	1.07
1:O:528:TRP:HB2	1:7:246:PRO:HG3	1.37	1.07
1:D:36:HIS:HE1	1:R:33:GLY:C	98.11	1.07
1:I:37:SER:CA	1:J:257:ARG:CD	2.32	1.07
1:Q:35:GLY:O	1:S:257:ARG:CD	2.03	1.07
1:T:35:GLY:O	1:5:257:ARG:CD	100.81	1.07
1:T:246:PRO:HG3	1:V:528:TRP:HB2	73.26	1.07
1:Y:257:ARG:CD	1:7:35:GLY:O	111.02	1.07
1:C:33:GLY:O	1:C:36:HIS:HD2	1.28	1.07
1:E:33:GLY:C	1:Q:36:HIS:HE1	90.26	1.07
1:R:257:ARG:CD	1:V:35:GLY:O	2.03	1.07
1:W:33:GLY:O	1:W:36:HIS:HD2	1.28	1.07
1:H:257:ARG:CD	1:Z:35:GLY:O	2.03	1.07
1:C:33:GLY:C	1:D:36:HIS:HE1	1.55	1.06
1:G:528:TRP:HB2	1:I:246:PRO:HG3	1.37	1.06
1:P:35:GLY:O	1:Q:257:ARG:CD	2.02	1.06
1:X:257:ARG:CD	1:Y:35:GLY:O	19.98	1.06
1:M:246:PRO:HG3	1:I:528:TRP:HB2	1.37	1.06
1:D:257:ARG:CD	1:F:37:SER:CA	83.59	1.06
1:K:35:GLY:O	1:S:257:ARG:CD	160.16	1.06
1:N:257:ARG:CD	1:S:35:GLY:O	100.78	1.06
1:I:35:GLY:O	1:6:257:ARG:CD	102.76	1.06
1:B:528:TRP:HB2	1:J:246:PRO:HG3	1.37	1.06
1:F:257:ARG:CD	1:R:35:GLY:O	2.03	1.06
1:V:246:PRO:HG3	1:X:528:TRP:HB2	1.37	1.06
1:I:257:ARG:CD	1:I:35:GLY:O	111.02	1.06
1:F:35:GLY:O	1:G:257:ARG:CD	2.03	1.06
1:E:246:PRO:HG3	1:F:528:TRP:HB2	1.37	1.06
1:F:257:ARG:CD	1:H:35:GLY:O	96.81	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:35:GLY:O	1:V:257:ARG:CD	111.28	1.06
1:T:35:GLY:O	1:U:257:ARG:CD	2.03	1.06
1:M:257:ARG:CD	1:2:37:SER:CA	2.32	1.06
1:O:257:ARG:CD	1:3:35:GLY:O	2.02	1.06
1:A:257:ARG:CD	1:B:37:SER:CA	2.31	1.06
1:H:528:TRP:HB2	1:O:246:PRO:HG3	161.85	1.06
1:L:35:GLY:O	1:1:257:ARG:CD	2.03	1.06
1:H:257:ARG:CD	1:L:37:SER:CA	103.49	1.06
1:P:257:ARG:CD	1:U:35:GLY:O	104.39	1.06
1:O:257:ARG:CD	1:Y:35:GLY:O	161.87	1.06
1:T:37:SER:CA	1:5:257:ARG:CD	102.07	1.06
1:M:35:GLY:O	1:N:257:ARG:CD	2.03	1.06
1:K:221:ILE:HG22	1:M:429:ARG:HD3	149.33	1.06
1:K:246:PRO:HG3	1:M:528:TRP:HB2	130.23	1.06
1:O:528:TRP:HB2	1:P:246:PRO:HG3	35.89	1.06
1:E:257:ARG:CD	1:Q:35:GLY:O	90.88	1.06
1:V:257:ARG:CD	1:W:35:GLY:O	2.03	1.06
1:L:37:SER:CA	1:1:257:ARG:CD	2.32	1.06
1:M:257:ARG:CD	1:2:35:GLY:O	2.03	1.06
1:C:35:GLY:O	1:T:257:ARG:CD	163.44	1.06
1:C:528:TRP:HB2	1:D:246:PRO:HG3	101.16	1.06
1:D:35:GLY:O	1:R:257:ARG:CD	111.02	1.06
1:G:37:SER:CA	1:M:257:ARG:CD	158.78	1.06
1:Z:257:ARG:CD	1:0:35:GLY:O	2.03	1.06
1:A:429:ARG:HD3	1:5:221:ILE:HG22	205.10	1.06
1:A:257:ARG:CD	1:B:35:GLY:O	2.03	1.06
1:C:257:ARG:CD	1:D:35:GLY:O	2.03	1.06
1:D:528:TRP:HB2	1:N:246:PRO:HG3	1.36	1.06
1:Q:528:TRP:HB2	1:R:246:PRO:HG3	45.07	1.06
1:W:35:GLY:O	1:7:257:ARG:CD	148.65	1.06
1:J:35:GLY:O	1:K:257:ARG:CD	85.46	1.06
1:O:35:GLY:O	1:P:257:ARG:CD	2.04	1.06
1:X:35:GLY:O	1:Y:257:ARG:CD	2.02	1.06
1:D:257:ARG:CD	1:F:35:GLY:O	87.26	1.06
1:G:35:GLY:O	1:M:257:ARG:CD	159.74	1.06
1:G:528:TRP:HB2	1:H:246:PRO:HG3	45.08	1.06
1:H:429:ARG:HD3	1:O:221:ILE:HG22	233.30	1.06
1:I:35:GLY:O	1:J:257:ARG:CD	2.03	1.06
1:2:33:GLY:O	1:2:36:HIS:HD2	1.28	1.05
1:K:257:ARG:CD	1:6:35:GLY:O	2.03	1.05
1:D:528:TRP:HB2	1:E:246:PRO:HG3	101.16	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:257:ARG:CD	1:L:35:GLY:O	104.40	1.05
1:M:101:TYR:OH	1:M:236:GLY:HA3	1.57	1.05
1:M:35:GLY:O	1:2:257:ARG:CD	19.98	1.05
1:L:257:ARG:CD	1:R:35:GLY:O	153.71	1.05
1:N:257:ARG:CD	1:S:37:SER:CA	102.04	1.05
1:V:101:TYR:OH	1:V:236:GLY:HA3	1.56	1.05
1:K:528:TRP:HB2	1:O:246:PRO:HG3	1.37	1.05
1:H:101:TYR:OH	1:H:236:GLY:HA3	1.56	1.05
1:L:528:TRP:HB2	1:M:246:PRO:HG3	80.49	1.05
1:G:257:ARG:CD	1:N:35:GLY:O	148.65	1.05
1:A:35:GLY:O	1:U:257:ARG:CD	147.49	1.05
1:F:429:ARG:HD3	1:T:221:ILE:HG22	170.06	1.05
1:G:101:TYR:OH	1:G:236:GLY:HA3	1.56	1.05
1:I:221:ILE:HG22	1:2:429:ARG:HD3	207.52	1.05
1:B:221:ILE:HG22	1:L:429:ARG:HD3	1.38	1.05
1:C:246:PRO:HG3	1:M:528:TRP:HB2	1.37	1.05
1:O:101:TYR:OH	1:O:236:GLY:HA3	1.56	1.05
1:P:37:SER:CA	1:Q:257:ARG:CD	2.33	1.05
1:T:101:TYR:OH	1:T:236:GLY:HA3	1.56	1.05
1:S:429:ARG:HD3	1:U:221:ILE:HG22	1.38	1.05
1:U:35:GLY:O	1:4:257:ARG:CD	2.03	1.05
1:B:257:ARG:CD	1:C:35:GLY:O	2.03	1.05
1:D:257:ARG:CD	1:E:37:SER:CA	2.32	1.05
1:B:429:ARG:HD3	1:J:221:ILE:HG22	1.38	1.05
1:N:429:ARG:HD3	1:O:221:ILE:HG22	80.26	1.05
1:F:221:ILE:HG22	1:Q:429:ARG:HD3	1.38	1.05
1:W:101:TYR:OH	1:W:236:GLY:HA3	1.56	1.05
1:Z:429:ARG:HD3	1:6:221:ILE:HG22	170.06	1.05
1:X:246:PRO:HG3	1:4:528:TRP:HB2	1.37	1.05
1:O:528:TRP:CB	1:7:246:PRO:HG3	1.87	1.05
1:B:191:PHE:CE1	1:B:470:HIS:CE1	2.45	1.05
1:D:191:PHE:CE1	1:D:470:HIS:CE1	2.45	1.05
1:F:101:TYR:OH	1:F:236:GLY:HA3	1.57	1.05
1:I:191:PHE:CE1	1:I:470:HIS:CE1	2.45	1.05
1:I:101:TYR:OH	1:I:236:GLY:HA3	1.56	1.05
1:J:35:GLY:O	1:O:257:ARG:CD	2.03	1.05
1:J:37:SER:CA	1:K:257:ARG:CD	81.58	1.05
1:M:37:SER:CA	1:2:257:ARG:CD	23.24	1.05
1:C:221:ILE:HG22	1:M:429:ARG:HD3	1.38	1.05
1:R:528:TRP:CB	1:S:246:PRO:HG3	1.87	1.05
1:S:35:GLY:O	1:3:257:ARG:CD	2.03	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:191:PHE:CE1	1:T:470:HIS:CE1	2.45	1.05
1:T:528:TRP:HB2	1:3:246:PRO:HG3	1.37	1.05
1:V:221:ILE:HG22	1:X:429:ARG:HD3	1.38	1.05
1:V:246:PRO:HG3	1:X:528:TRP:CB	1.87	1.05
1:J:257:ARG:CD	1:Z:35:GLY:O	20.16	1.05
1:4:101:TYR:OH	1:4:236:GLY:HA3	1.56	1.05
1:A:101:TYR:OH	1:A:236:GLY:HA3	1.56	1.05
1:A:191:PHE:CE1	1:A:470:HIS:CE1	2.45	1.05
1:A:246:PRO:HG3	1:B:528:TRP:CB	35.35	1.05
1:K:33:GLY:O	1:K:36:HIS:HD2	1.28	1.05
1:M:191:PHE:CE1	1:M:470:HIS:CE1	2.45	1.05
1:N:528:TRP:CB	1:P:246:PRO:HG3	1.87	1.05
1:H:429:ARG:HD3	1:W:221:ILE:HG22	1.38	1.05
1:W:191:PHE:CE1	1:W:470:HIS:CE1	2.45	1.05
1:W:221:ILE:HG22	1:X:429:ARG:HD3	80.26	1.05
1:Z:191:PHE:CE1	1:Z:470:HIS:CE1	2.45	1.05
1:4:33:GLY:O	1:4:36:HIS:HD2	1.28	1.05
1:K:246:PRO:HG3	1:7:528:TRP:CB	1.87	1.05
1:G:221:ILE:HG22	1:O:429:ARG:HD3	206.10	1.05
1:H:35:GLY:O	1:I:257:ARG:CD	2.03	1.05
1:I:528:TRP:HB2	1:J:246:PRO:HG3	35.90	1.05
1:N:33:GLY:O	1:N:36:HIS:HD2	1.28	1.05
1:S:191:PHE:CE1	1:S:470:HIS:CE1	2.45	1.05
1:V:191:PHE:CE1	1:V:470:HIS:CE1	2.45	1.05
1:V:528:TRP:CB	1:4:246:PRO:HG3	1.87	1.05
1:T:257:ARG:CD	1:X:35:GLY:O	104.39	1.05
1:Y:191:PHE:CE1	1:Y:470:HIS:CE1	2.45	1.05
1:0:33:GLY:O	1:0:36:HIS:HD2	1.28	1.05
1:B:246:PRO:HG3	1:5:528:TRP:CB	195.00	1.05
1:B:101:TYR:OH	1:B:236:GLY:HA3	1.56	1.05
1:D:101:TYR:OH	1:D:236:GLY:HA3	1.56	1.05
1:D:37:SER:CA	1:R:257:ARG:CD	112.42	1.05
1:O:257:ARG:CD	1:3:37:SER:CA	2.33	1.05
1:0:429:ARG:HD3	1:7:221:ILE:HG22	1.38	1.05
1:A:528:TRP:HB2	1:5:246:PRO:HG3	158.83	1.05
1:D:528:TRP:CB	1:N:246:PRO:HG3	1.87	1.05
1:D:429:ARG:HD3	1:E:221:ILE:HG22	105.24	1.05
1:D:257:ARG:CD	1:E:35:GLY:O	2.03	1.05
1:G:191:PHE:CE1	1:G:470:HIS:CE1	2.45	1.05
1:I:246:PRO:HG3	1:2:528:TRP:HB2	153.69	1.05
1:K:429:ARG:HD3	1:L:221:ILE:HG22	73.08	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:37:SER:CA	1:N:257:ARG:CD	2.32	1.05
1:Q:528:TRP:CB	1:R:246:PRO:HG3	45.11	1.05
1:Q:221:ILE:HG22	1:S:429:ARG:HD3	105.25	1.05
1:6:191:PHE:CE1	1:6:470:HIS:CE1	2.45	1.04
1:A:257:ARG:CD	1:E:35:GLY:O	19.97	1.04
1:K:101:TYR:OH	1:K:236:GLY:HA3	1.57	1.04
1:Q:101:TYR:OH	1:Q:236:GLY:HA3	1.56	1.04
1:R:191:PHE:CE1	1:R:470:HIS:CE1	2.45	1.04
1:U:191:PHE:CE1	1:U:470:HIS:CE1	2.45	1.04
1:A:37:SER:CA	1:U:257:ARG:CD	144.17	1.04
1:W:37:SER:CA	1:7:257:ARG:CD	145.95	1.04
1:W:528:TRP:CB	1:Y:246:PRO:HG3	1.87	1.04
1:Y:528:TRP:CB	1:Z:246:PRO:HG3	45.11	1.04
1:F:528:TRP:HB2	1:T:246:PRO:HG3	164.80	1.04
1:H:221:ILE:HG22	1:Y:429:ARG:HD3	1.38	1.04
1:H:528:TRP:CB	1:O:246:PRO:HG3	162.54	1.04
1:K:246:PRO:HG3	1:M:528:TRP:CB	130.98	1.04
1:X:221:ILE:HG22	1:Z:429:ARG:HD3	128.96	1.04
1:6:101:TYR:OH	1:6:236:GLY:HA3	1.56	1.04
1:J:528:TRP:CB	1:L:246:PRO:HG3	1.88	1.04
1:B:246:PRO:HG3	1:L:528:TRP:CB	1.87	1.04
1:N:101:TYR:OH	1:N:236:GLY:HA3	1.57	1.04
1:O:429:ARG:HD3	1:P:221:ILE:HG22	73.08	1.04
1:D:221:ILE:HG22	1:P:429:ARG:HD3	1.38	1.04
1:T:528:TRP:HB2	1:U:246:PRO:HG3	35.90	1.04
1:H:528:TRP:CB	1:W:246:PRO:HG3	1.87	1.04
1:W:429:ARG:HD3	1:Y:221:ILE:HG22	1.38	1.04
1:W:246:PRO:HG3	1:X:528:TRP:CB	45.11	1.04
1:Y:246:PRO:HG3	1:6:528:TRP:CB	154.16	1.04
1:W:528:TRP:CB	1:Z:246:PRO:HG3	104.89	1.04
1:2:191:PHE:CE1	1:2:470:HIS:CE1	2.45	1.04
1:3:191:PHE:CE1	1:3:470:HIS:CE1	2.45	1.04
1:A:98:ASN:CB	1:B:316:ARG:NH2	80.30	1.04
1:F:191:PHE:CE1	1:F:470:HIS:CE1	2.45	1.04
1:F:257:ARG:CD	1:H:37:SER:CA	92.95	1.04
1:J:191:PHE:CE1	1:J:470:HIS:CE1	2.45	1.04
1:Q:191:PHE:CE1	1:Q:470:HIS:CE1	2.45	1.04
1:U:101:TYR:OH	1:U:236:GLY:HA3	1.56	1.04
1:R:246:PRO:HG3	1:U:528:TRP:CB	1.88	1.04
1:W:429:ARG:HD3	1:Z:221:ILE:HG22	93.55	1.04
1:R:429:ARG:HD3	1:S:221:ILE:HG22	1.38	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:257:ARG:CD	1:W:37:SER:CA	2.32	1.04
1:T:221:ILE:HG22	1:V:429:ARG:HD3	128.96	1.04
1:Y:101:TYR:OH	1:Y:236:GLY:HA3	1.56	1.04
1:O:101:TYR:OH	1:O:236:GLY:HA3	1.56	1.04
1:7:101:TYR:OH	1:7:236:GLY:HA3	1.56	1.04
1:E:221:ILE:HG22	1:F:429:ARG:HD3	1.38	1.04
1:X:257:ARG:CD	1:Y:37:SER:CA	23.24	1.04
1:Z:528:TRP:CB	1:6:246:PRO:HG3	165.30	1.04
1:M:246:PRO:HG3	1:1:528:TRP:CB	1.87	1.04
1:A:528:TRP:CB	1:5:246:PRO:HG3	159.76	1.04
1:B:246:PRO:HG3	1:5:528:TRP:HB2	194.63	1.04
1:G:429:ARG:HD3	1:I:221:ILE:HG22	1.39	1.04
1:H:257:ARG:CD	1:Z:37:SER:CA	2.32	1.04
1:B:528:TRP:CB	1:J:246:PRO:HG3	1.87	1.04
1:P:191:PHE:CE1	1:P:470:HIS:CE1	2.45	1.04
1:R:101:TYR:OH	1:R:236:GLY:HA3	1.56	1.04
1:S:528:TRP:CB	1:U:246:PRO:HG3	1.87	1.04
1:Y:429:ARG:HD3	1:Z:221:ILE:HG22	80.27	1.04
1:D:528:TRP:CB	1:E:246:PRO:HG3	101.06	1.04
1:O:528:TRP:CB	1:P:246:PRO:HG3	35.33	1.04
1:K:37:SER:CA	1:S:257:ARG:CD	158.41	1.04
1:U:528:TRP:CB	1:V:246:PRO:HG3	45.10	1.04
1:A:246:PRO:HG3	1:I:528:TRP:HB2	1.37	1.04
1:C:191:PHE:CE1	1:C:470:HIS:CE1	2.45	1.04
1:E:101:TYR:OH	1:E:236:GLY:HA3	1.56	1.04
1:E:246:PRO:HG3	1:F:528:TRP:CB	1.87	1.04
1:E:191:PHE:CE1	1:E:470:HIS:CE1	2.45	1.04
1:K:528:TRP:CB	1:L:246:PRO:HG3	35.34	1.04
1:L:191:PHE:CE1	1:L:470:HIS:CE1	2.45	1.04
1:O:37:SER:CA	1:P:257:ARG:CD	2.32	1.04
1:P:257:ARG:CD	1:U:37:SER:CA	103.48	1.04
1:X:101:TYR:OH	1:X:236:GLY:HA3	1.57	1.04
1:X:246:PRO:HG3	1:Z:528:TRP:HB2	73.27	1.04
1:K:528:TRP:CB	1:O:246:PRO:HG3	1.87	1.04
1:1:191:PHE:CE1	1:1:470:HIS:CE1	2.45	1.04
1:7:191:PHE:CE1	1:7:470:HIS:CE1	2.45	1.04
1:H:37:SER:CA	1:I:257:ARG:CD	2.32	1.04
1:H:191:PHE:CE1	1:H:470:HIS:CE1	2.45	1.04
1:I:429:ARG:HD3	1:J:221:ILE:HG22	73.09	1.04
1:F:257:ARG:CD	1:R:37:SER:CA	2.32	1.04
1:X:246:PRO:HG3	1:4:528:TRP:CB	1.87	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:257:ARG:CD	1:X:37:SER:CA	103.48	1.04
1:Z:101:TYR:OH	1:Z:236:GLY:HA3	1.56	1.04
1:X:257:ARG:CD	1:5:35:GLY:O	2.05	1.03
1:A:221:ILE:HG22	1:I:429:ARG:HD3	1.38	1.03
1:B:257:ARG:CD	1:C:37:SER:CA	2.32	1.03
1:E:528:TRP:CB	1:Q:246:PRO:HG3	1.88	1.03
1:C:246:PRO:HG3	1:M:528:TRP:CB	1.88	1.03
1:O:257:ARG:CD	1:Y:37:SER:CA	161.27	1.03
1:N:246:PRO:HG3	1:P:528:TRP:CB	66.90	1.03
1:X:191:PHE:CE1	1:X:470:HIS:CE1	2.45	1.03
1:J:528:TRP:HB2	1:2:246:PRO:HG3	130.90	1.03
1:K:246:PRO:HG3	1:7:528:TRP:HB2	1.37	1.03
1:C:101:TYR:OH	1:C:236:GLY:HA3	1.56	1.03
1:D:246:PRO:HG3	1:P:528:TRP:CB	1.87	1.03
1:H:246:PRO:HG3	1:Y:528:TRP:HB2	1.37	1.03
1:G:528:TRP:CB	1:I:246:PRO:HG3	1.87	1.03
1:G:246:PRO:HG3	1:O:528:TRP:CB	141.27	1.03
1:F:528:TRP:CB	1:T:246:PRO:HG3	165.29	1.03
1:T:528:TRP:CB	1:U:246:PRO:HG3	35.34	1.03
1:T:429:ARG:HD3	1:3:221:ILE:HG22	1.39	1.03
1:V:528:TRP:HB2	1:4:246:PRO:HG3	1.37	1.03
1:C:528:TRP:CB	1:D:246:PRO:HG3	101.06	1.03
1:D:429:ARG:HD3	1:N:221:ILE:HG22	1.38	1.03
1:I:246:PRO:HG3	1:2:528:TRP:CB	154.16	1.03
1:N:528:TRP:HB2	1:P:246:PRO:HG3	1.37	1.03
1:F:246:PRO:HG3	1:Q:528:TRP:CB	1.87	1.03
1:Q:246:PRO:HG3	1:S:528:TRP:CB	101.06	1.03
1:J:257:ARG:CD	1:Z:37:SER:CA	23.11	1.03
1:0:191:PHE:CE1	1:0:470:HIS:CE1	2.45	1.03
1:S:37:SER:CA	1:3:257:ARG:CD	2.32	1.03
1:5:191:PHE:CE1	1:5:470:HIS:CE1	2.45	1.03
1:C:246:PRO:HG3	1:E:528:TRP:CB	73.40	1.03
1:O:191:PHE:CE1	1:O:470:HIS:CE1	2.45	1.03
1:Q:429:ARG:HD3	1:R:221:ILE:HG22	80.27	1.03
1:R:528:TRP:HB2	1:S:246:PRO:HG3	1.37	1.03
1:2:101:TYR:OH	1:2:236:GLY:HA3	1.56	1.03
1:A:257:ARG:CD	1:E:37:SER:CA	23.23	1.03
1:F:246:PRO:HG3	1:3:528:TRP:HB2	130.61	1.03
1:I:528:TRP:CB	1:J:246:PRO:HG3	35.34	1.03
1:N:191:PHE:CE1	1:N:470:HIS:CE1	2.45	1.03
1:N:528:TRP:CB	1:O:246:PRO:HG3	45.11	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:528:TRP:HB2	1:O:246:PRO:HG3	45.07	1.03
1:F:246:PRO:HG3	1:Q:528:TRP:HB2	1.37	1.03
1:C:429:ARG:HD3	1:I:221:ILE:HG22	1.38	1.03
1:T:528:TRP:CB	1:3:246:PRO:HG3	1.87	1.03
1:C:221:ILE:HG22	1:E:429:ARG:HD3	135.94	1.03
1:C:528:TRP:CB	1:I:246:PRO:HG3	1.87	1.03
1:L:528:TRP:CB	1:M:246:PRO:HG3	80.09	1.03
1:T:246:PRO:HG3	1:V:528:TRP:CB	73.82	1.03
1:H:246:PRO:HG3	1:Y:528:TRP:CB	1.87	1.03
1:4:191:PHE:CE1	1:4:470:HIS:CE1	2.45	1.03
1:G:429:ARG:HD3	1:H:221:ILE:HG22	80.27	1.03
1:G:528:TRP:CB	1:H:246:PRO:HG3	45.11	1.03
1:B:246:PRO:HG3	1:L:528:TRP:HB2	1.37	1.03
1:P:101:TYR:OH	1:P:236:GLY:HA3	1.56	1.03
1:S:101:TYR:OH	1:S:236:GLY:HA3	1.56	1.03
1:Y:246:PRO:HG3	1:6:528:TRP:HB2	153.69	1.03
1:J:528:TRP:HB2	1:L:246:PRO:HG3	1.37	1.03
1:K:191:PHE:CE1	1:K:470:HIS:CE1	2.45	1.03
1:X:246:PRO:HG3	1:Z:528:TRP:CB	73.82	1.03
1:L:101:TYR:OH	1:L:236:GLY:HA3	1.56	1.03
1:N:316:ARG:HH21	1:P:98:ASN:HB3	1.20	1.03
1:5:33:GLY:O	1:5:36:HIS:HD2	1.28	1.03
1:Z:257:ARG:CD	1:0:37:SER:CA	2.33	1.03
1:K:429:ARG:HD3	1:0:221:ILE:HG22	1.38	1.02
1:Y:257:ARG:CD	1:7:37:SER:CA	112.42	1.02
1:C:429:ARG:HD3	1:D:221:ILE:HG22	105.24	1.02
1:F:246:PRO:HG3	1:3:528:TRP:CB	130.70	1.02
1:A:246:PRO:HG3	1:I:528:TRP:CB	1.88	1.02
1:X:37:SER:CA	1:Y:257:ARG:CD	2.33	1.02
1:M:221:ILE:HG22	1:I:429:ARG:HD3	1.38	1.02
1:X:221:ILE:HG22	1:4:429:ARG:HD3	1.38	1.02
1:F:221:ILE:HG22	1:3:429:ARG:HD3	156.96	1.02
1:L:429:ARG:HD3	1:M:221:ILE:HG22	97.84	1.02
1:T:429:ARG:HD3	1:U:221:ILE:HG22	73.09	1.02
1:J:429:ARG:HD3	1:2:221:ILE:HG22	149.98	1.02
1:J:528:TRP:CB	1:2:246:PRO:HG3	131.80	1.02
1:R:316:ARG:HH21	1:S:98:ASN:HB3	1.20	1.02
1:A:33:GLY:O	1:A:36:HIS:HD2	1.28	1.02
1:R:257:ARG:CD	1:V:37:SER:CA	2.33	1.02
1:R:246:PRO:HG3	1:U:528:TRP:HB2	1.37	1.02
1:U:429:ARG:HD3	1:V:221:ILE:HG22	80.26	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:101:TYR:OH	1:5:236:GLY:HA3	1.57	1.02
1:N:429:ARG:HD3	1:P:221:ILE:HG22	1.38	1.02
1:S:528:TRP:HB2	1:U:246:PRO:HG3	1.37	1.02
1:Y:528:TRP:HB2	1:Z:246:PRO:HG3	45.07	1.02
1:K:221:ILE:HG22	1:7:429:ARG:HD3	1.38	1.02
1:V:429:ARG:HD3	1:4:221:ILE:HG22	1.38	1.02
1:A:528:TRP:HB2	1:G:246:PRO:CG	1.89	1.02
1:F:98:ASN:HB3	1:3:316:ARG:HH21	165.60	1.02
1:J:101:TYR:OH	1:J:236:GLY:HA3	1.56	1.02
1:T:98:ASN:HB3	1:V:316:ARG:HH21	101.95	1.02
1:G:246:PRO:HG3	1:O:528:TRP:HB2	141.41	1.02
1:K:257:ARG:CD	1:6:37:SER:CA	2.32	1.02
1:Z:528:TRP:HB2	1:6:246:PRO:HG3	164.81	1.02
1:U:37:SER:CA	1:4:257:ARG:CD	2.32	1.01
1:N:37:SER:CA	1:Z:257:ARG:CD	161.27	1.01
1:1:101:TYR:OH	1:1:236:GLY:HA3	1.56	1.01
1:G:316:ARG:HH21	1:I:98:ASN:HB3	1.20	1.01
1:Q:37:SER:CA	1:S:257:ARG:CD	2.32	1.01
1:A:429:ARG:HD3	1:G:221:ILE:HG22	1.40	1.01
1:K:528:TRP:HB2	1:L:246:PRO:HG3	35.90	1.01
1:B:33:GLY:O	1:B:36:HIS:HD2	1.28	1.01
1:R:221:ILE:HG22	1:U:429:ARG:HD3	1.38	1.01
1:N:221:ILE:HG22	1:P:429:ARG:HD3	26.95	1.01
1:E:528:TRP:HB2	1:Q:246:PRO:HG3	1.37	1.01
1:J:316:ARG:HH21	1:2:98:ASN:HB3	125.92	1.01
1:C:257:ARG:CD	1:D:37:SER:CA	2.33	1.01
1:C:316:ARG:HH21	1:1:98:ASN:HB3	1.20	1.01
1:O:431:SER:OG	1:O:433:HIS:NE2	1.94	1.01
1:3:101:TYR:OH	1:3:236:GLY:HA3	1.56	1.01
1:B:33:GLY:C	1:4:36:HIS:HE1	154.77	1.01
1:Y:221:ILE:HG22	1:6:429:ARG:HD3	207.52	1.01
1:N:246:PRO:HG3	1:P:528:TRP:HB2	66.21	1.01
1:E:429:ARG:HD3	1:Q:221:ILE:HG22	1.38	1.01
1:X:431:SER:OG	1:X:433:HIS:NE2	1.94	1.01
1:3:431:SER:OG	1:3:433:HIS:NE2	1.94	1.01
1:C:37:SER:CA	1:T:257:ARG:CD	163.46	1.01
1:E:257:ARG:CD	1:Q:37:SER:CA	89.56	1.01
1:I:37:SER:CA	1:6:257:ARG:CD	100.64	1.01
1:K:37:SER:CA	1:L:257:ARG:CD	2.33	1.01
1:Z:431:SER:OG	1:Z:433:HIS:NE2	1.94	1.01
1:C:98:ASN:HB3	1:E:316:ARG:HH21	131.91	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:316:ARG:HH21	1:E:98:ASN:HB3	100.44	1.00
1:I:33:GLY:O	1:I:36:HIS:HD2	1.28	1.00
1:I:431:SER:OG	1:I:433:HIS:NE2	1.94	1.00
1:J:431:SER:OG	1:J:433:HIS:NE2	1.94	1.00
1:K:431:SER:OG	1:K:433:HIS:NE2	1.94	1.00
1:M:431:SER:OG	1:M:433:HIS:NE2	1.94	1.00
1:O:431:SER:OG	1:O:433:HIS:NE2	1.94	1.00
1:S:431:SER:OG	1:S:433:HIS:NE2	1.94	1.00
1:T:37:SER:CA	1:U:257:ARG:CD	2.32	1.00
1:W:528:TRP:HB2	1:Y:246:PRO:HG3	1.37	1.00
1:W:246:PRO:HG3	1:X:528:TRP:HB2	45.07	1.00
1:A:431:SER:OG	1:A:433:HIS:NE2	1.94	1.00
1:C:98:ASN:HB3	1:M:316:ARG:HH21	1.20	1.00
1:E:431:SER:OG	1:E:433:HIS:NE2	1.94	1.00
1:N:431:SER:OG	1:N:433:HIS:NE2	1.94	1.00
1:P:431:SER:OG	1:P:433:HIS:NE2	1.94	1.00
1:T:431:SER:OG	1:T:433:HIS:NE2	1.94	1.00
1:H:528:TRP:HB2	1:W:246:PRO:HG3	1.37	1.00
1:Y:431:SER:OG	1:Y:433:HIS:NE2	1.94	1.00
1:B:431:SER:OG	1:B:433:HIS:NE2	1.94	1.00
1:A:246:PRO:CG	1:B:528:TRP:HB2	36.40	1.00
1:D:431:SER:OG	1:D:433:HIS:NE2	1.94	1.00
1:Q:431:SER:OG	1:Q:433:HIS:NE2	1.94	1.00
1:R:431:SER:OG	1:R:433:HIS:NE2	1.94	1.00
1:W:431:SER:OG	1:W:433:HIS:NE2	1.94	1.00
1:B:469:ALA:HB2	1:5:439:TYR:CE1	203.43	1.00
1:A:37:SER:CA	1:E:257:ARG:CD	2.36	1.00
1:V:431:SER:OG	1:V:433:HIS:NE2	1.94	1.00
1:7:431:SER:OG	1:7:433:HIS:NE2	1.94	1.00
1:G:431:SER:OG	1:G:433:HIS:NE2	1.94	1.00
1:I:257:ARG:CD	1:1:37:SER:CA	112.42	1.00
1:J:429:ARG:HD3	1:L:221:ILE:HG22	1.38	1.00
1:L:431:SER:OG	1:L:433:HIS:NE2	1.94	1.00
1:4:431:SER:OG	1:4:433:HIS:NE2	1.94	1.00
1:5:431:SER:OG	1:5:433:HIS:NE2	1.94	1.00
1:T:33:GLY:O	1:T:36:HIS:HD2	1.28	1.00
1:D:528:TRP:HB2	1:N:246:PRO:CG	1.92	1.00
1:H:431:SER:OG	1:H:433:HIS:NE2	1.94	1.00
1:Q:528:TRP:HB2	1:R:246:PRO:CG	44.12	1.00
1:W:528:TRP:HB2	1:Z:246:PRO:HG3	104.03	1.00
1:K:246:PRO:CG	1:7:528:TRP:HB2	1.92	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:431:SER:OG	1:C:433:HIS:NE2	1.94	1.00
1:X:246:PRO:CG	1:Z:528:TRP:HB2	72.55	1.00
1:1:431:SER:OG	1:1:433:HIS:NE2	1.94	1.00
1:V:528:TRP:HB2	1:4:246:PRO:CG	1.92	1.00
1:G:528:TRP:HB2	1:I:246:PRO:CG	1.92	1.00
1:H:246:PRO:CG	1:Y:528:TRP:HB2	1.92	1.00
1:R:33:GLY:O	1:R:36:HIS:HD2	1.28	1.00
1:U:431:SER:OG	1:U:433:HIS:NE2	1.94	1.00
1:W:316:ARG:HH21	1:Z:98:ASN:HB3	72.27	1.00
1:F:431:SER:OG	1:F:433:HIS:NE2	1.94	1.00
1:I:98:ASN:HB3	1:2:316:ARG:HH21	184.00	1.00
1:6:431:SER:OG	1:6:433:HIS:NE2	1.94	0.99
1:B:37:SER:N	1:C:257:ARG:CD	22.24	0.99
1:F:37:SER:CA	1:G:257:ARG:CD	2.32	0.99
1:G:257:ARG:CD	1:N:37:SER:CA	145.95	0.99
1:L:257:ARG:CD	1:R:37:SER:CA	152.44	0.99
1:T:246:PRO:CG	1:V:528:TRP:HB2	72.54	0.99
1:O:37:SER:CA	1:V:257:ARG:CD	112.24	0.99
1:W:528:TRP:HB2	1:Y:246:PRO:CG	1.92	0.99
1:W:528:TRP:HB2	1:Z:246:PRO:CG	103.09	0.99
1:O:528:TRP:HB2	1:P:246:PRO:CG	36.39	0.99
1:Y:33:GLY:O	1:Y:36:HIS:HD2	1.28	0.99
1:M:246:PRO:CG	1:1:528:TRP:HB2	1.92	0.99
1:E:246:PRO:CG	1:F:528:TRP:HB2	1.92	0.99
1:I:246:PRO:CG	1:2:528:TRP:HB2	152.84	0.99
1:K:528:TRP:HB2	1:L:246:PRO:CG	36.40	0.99
1:R:528:TRP:HB2	1:S:246:PRO:CG	1.92	0.99
1:F:528:TRP:HB2	1:T:246:PRO:CG	163.98	0.99
1:Y:528:TRP:HB2	1:Z:246:PRO:CG	44.12	0.99
1:B:246:PRO:CG	1:5:528:TRP:HB2	194.02	0.99
1:H:528:TRP:HB2	1:W:246:PRO:CG	1.92	0.99
1:W:246:PRO:CG	1:X:528:TRP:HB2	44.12	0.99
1:A:221:ILE:HG22	1:B:429:ARG:HD3	73.08	0.99
1:F:316:ARG:HH21	1:T:98:ASN:HB3	161.61	0.99
1:G:37:SER:CA	1:W:257:ARG:CD	2.32	0.99
1:W:316:ARG:HH21	1:Y:98:ASN:HB3	1.21	0.99
1:C:528:TRP:HB2	1:D:246:PRO:CG	100.32	0.99
1:D:528:TRP:HB2	1:E:246:PRO:CG	100.33	0.99
1:G:246:PRO:CG	1:O:528:TRP:HB2	141.81	0.99
1:B:528:TRP:HB2	1:J:246:PRO:CG	1.92	0.99
1:U:528:TRP:HB2	1:V:246:PRO:CG	44.12	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:37:SER:CA	1:W:257:ARG:CD	23.25	0.99
1:B:257:ARG:CD	1:4:37:SER:CA	163.81	0.99
1:A:257:ARG:CD	1:B:37:SER:N	2.26	0.99
1:C:246:PRO:CG	1:M:528:TRP:HB2	1.92	0.99
1:T:528:TRP:HB2	1:U:246:PRO:CG	36.39	0.99
1:O:528:TRP:HB2	1:7:246:PRO:CG	1.92	0.98
1:B:246:PRO:CG	1:L:528:TRP:HB2	1.92	0.98
1:2:431:SER:OG	1:2:433:HIS:NE2	1.94	0.98
1:C:528:TRP:HB2	1:1:246:PRO:CG	1.92	0.98
1:K:246:PRO:CG	1:M:528:TRP:HB2	129.56	0.98
1:N:528:TRP:HB2	1:O:246:PRO:CG	44.12	0.98
1:D:246:PRO:CG	1:P:528:TRP:HB2	1.92	0.98
1:V:246:PRO:CG	1:X:528:TRP:HB2	1.92	0.98
1:A:528:TRP:HB2	1:5:246:PRO:CG	158.11	0.98
1:J:528:TRP:HB2	1:2:246:PRO:CG	130.07	0.98
1:S:528:TRP:HB2	1:U:246:PRO:CG	1.92	0.98
1:T:528:TRP:HB2	1:3:246:PRO:CG	1.92	0.98
1:D:98:ASN:HB3	1:P:316:ARG:HH21	1.20	0.98
1:Q:246:PRO:CG	1:S:528:TRP:HB2	100.32	0.98
1:F:246:PRO:CG	1:Q:528:TRP:HB2	1.92	0.98
1:Y:246:PRO:CG	1:6:528:TRP:HB2	152.84	0.98
1:C:246:PRO:CG	1:E:528:TRP:HB2	74.43	0.98
1:H:528:TRP:HB2	1:O:246:PRO:CG	161.53	0.98
1:A:469:ALA:HB2	1:I:439:TYR:CE1	1.99	0.98
1:R:246:PRO:CG	1:U:528:TRP:HB2	1.93	0.98
1:Z:528:TRP:HB2	1:6:246:PRO:CG	163.98	0.98
1:G:528:TRP:HB2	1:H:246:PRO:CG	44.12	0.98
1:I:528:TRP:HB2	1:J:246:PRO:CG	36.39	0.98
1:X:246:PRO:CG	1:4:528:TRP:HB2	1.92	0.98
1:F:246:PRO:CG	1:3:528:TRP:HB2	130.96	0.98
1:N:439:TYR:CE1	1:P:469:ALA:HB2	1.99	0.98
1:A:246:PRO:CG	1:I:528:TRP:HB2	1.93	0.98
1:K:528:TRP:HB2	1:O:246:PRO:CG	1.92	0.98
1:L:528:TRP:HB2	1:M:246:PRO:CG	79.94	0.98
1:R:439:TYR:CE1	1:S:469:ALA:HB2	1.99	0.98
1:T:439:TYR:CE1	1:U:469:ALA:HB2	78.59	0.97
1:K:439:TYR:CE1	1:L:469:ALA:HB2	78.59	0.97
1:Q:98:ASN:HB3	1:S:316:ARG:HH21	100.44	0.97
1:K:429:ARG:HD3	1:O:221:ILE:CG2	1.95	0.97
1:X:221:ILE:CG2	1:4:429:ARG:HD3	1.95	0.97
1:I:429:ARG:HD3	1:J:221:ILE:CG2	72.89	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:439:TYR:CE1	1:O:469:ALA:HB2	64.86	0.97
1:N:528:TRP:HB2	1:P:246:PRO:CG	1.92	0.97
1:N:246:PRO:CG	1:P:528:TRP:HB2	66.05	0.97
1:X:98:ASN:HB3	1:Z:316:ARG:HH21	101.95	0.97
1:O:439:TYR:CE1	1:7:469:ALA:HB2	1.99	0.97
1:K:316:ARG:HH21	1:O:98:ASN:HB3	1.20	0.97
1:Y:221:ILE:CG2	1:6:429:ARG:HD3	207.16	0.97
1:A:439:TYR:CE1	1:G:469:ALA:HB2	1.99	0.97
1:E:221:ILE:CG2	1:F:429:ARG:HD3	1.94	0.97
1:G:429:ARG:HD3	1:H:221:ILE:CG2	79.70	0.97
1:H:469:ALA:HB2	1:Y:439:TYR:CE1	1.99	0.97
1:G:469:ALA:HB2	1:O:439:TYR:CE1	180.36	0.97
1:T:429:ARG:HD3	1:3:221:ILE:CG2	1.95	0.97
1:R:221:ILE:CG2	1:U:429:ARG:HD3	1.95	0.97
1:H:429:ARG:HD3	1:W:221:ILE:CG2	1.95	0.97
1:E:439:TYR:CE1	1:Q:469:ALA:HB2	2.00	0.97
1:F:469:ALA:HB2	1:Q:439:TYR:CE1	2.00	0.97
1:N:469:ALA:HB2	1:P:439:TYR:CE1	22.44	0.97
1:O:429:ARG:HD3	1:P:221:ILE:CG2	72.89	0.97
1:E:528:TRP:HB2	1:Q:246:PRO:CG	1.93	0.97
1:W:221:ILE:CG2	1:X:429:ARG:HD3	79.69	0.97
1:X:469:ALA:HB2	1:Z:439:TYR:CE1	105.68	0.97
1:E:469:ALA:HB2	1:F:439:TYR:CE1	2.00	0.97
1:H:429:ARG:HD3	1:O:221:ILE:CG2	232.66	0.97
1:M:469:ALA:HB2	1:1:439:TYR:CE1	2.00	0.97
1:E:429:ARG:HD3	1:Q:221:ILE:CG2	1.95	0.97
1:R:96:THR:OG1	1:R:342:TYR:OH	1.83	0.97
1:V:469:ALA:HB2	1:X:439:TYR:CE1	1.99	0.97
1:Y:96:THR:OG1	1:Y:342:TYR:OH	1.83	0.97
1:V:439:TYR:CE1	1:4:469:ALA:HB2	1.99	0.97
1:A:429:ARG:HD3	1:5:221:ILE:CG2	204.44	0.97
1:C:439:TYR:CE1	1:D:469:ALA:HB2	77.10	0.97
1:F:429:ARG:HD3	1:T:221:ILE:CG2	169.98	0.97
1:H:257:ARG:CD	1:L:37:SER:N	103.99	0.97
1:J:37:SER:N	1:O:257:ARG:CD	2.28	0.97
1:J:528:TRP:HB2	1:L:246:PRO:CG	1.93	0.97
1:L:429:ARG:HD3	1:M:221:ILE:CG2	98.60	0.97
1:K:221:ILE:CG2	1:M:429:ARG:HD3	148.49	0.97
1:Q:221:ILE:CG2	1:S:429:ARG:HD3	104.69	0.97
1:W:37:SER:N	1:7:257:ARG:CD	146.56	0.97
1:W:439:TYR:CE1	1:Y:469:ALA:HB2	1.99	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:221:ILE:CG2	1:L:429:ARG:HD3	1.95	0.97
1:C:221:ILE:CG2	1:E:429:ARG:HD3	135.17	0.97
1:C:469:ALA:HB2	1:M:439:TYR:CE1	2.00	0.97
1:K:469:ALA:HB2	1:7:439:TYR:CE1	1.99	0.97
1:D:439:TYR:CE1	1:N:469:ALA:HB2	1.99	0.97
1:D:221:ILE:CG2	1:P:429:ARG:HD3	1.95	0.97
1:N:221:ILE:CG2	1:P:429:ARG:HD3	27.88	0.97
1:V:257:ARG:CD	1:W:37:SER:N	2.28	0.97
1:U:439:TYR:CE1	1:V:469:ALA:HB2	64.86	0.97
1:X:98:ASN:HB3	1:4:316:ARG:HH21	1.20	0.97
1:Y:429:ARG:HD3	1:Z:221:ILE:CG2	79.70	0.97
1:B:98:ASN:HB3	1:5:316:ARG:HH21	234.63	0.97
1:B:37:SER:CB	1:C:257:ARG:HG2	25.43	0.97
1:C:429:ARG:HD3	1:D:221:ILE:CG2	104.68	0.97
1:D:439:TYR:CE1	1:E:469:ALA:HB2	77.10	0.97
1:H:221:ILE:CG2	1:Y:429:ARG:HD3	1.95	0.97
1:I:221:ILE:CG2	1:2:429:ARG:HD3	207.16	0.97
1:J:439:TYR:CE1	1:L:469:ALA:HB2	1.99	0.97
1:O:439:TYR:CE1	1:P:469:ALA:HB2	78.59	0.97
1:Q:469:ALA:HB2	1:S:439:TYR:CE1	77.10	0.97
1:R:429:ARG:HD3	1:S:221:ILE:CG2	1.95	0.97
1:Y:439:TYR:CE1	1:Z:469:ALA:HB2	64.86	0.97
1:X:221:ILE:CG2	1:Z:429:ARG:HD3	128.07	0.97
1:W:439:TYR:CE1	1:Z:469:ALA:HB2	57.94	0.97
1:O:429:ARG:HD3	1:7:221:ILE:CG2	1.95	0.96
1:C:429:ARG:HD3	1:1:221:ILE:CG2	1.95	0.96
1:H:98:ASN:HB3	1:Y:316:ARG:HH21	1.20	0.96
1:I:96:THR:OG1	1:I:342:TYR:OH	1.83	0.96
1:D:469:ALA:HB2	1:P:439:TYR:CE1	1.99	0.96
1:Q:439:TYR:CE1	1:R:469:ALA:HB2	64.86	0.96
1:V:221:ILE:CG2	1:X:429:ARG:HD3	1.95	0.96
1:M:221:ILE:CG2	1:1:429:ARG:HD3	1.94	0.96
1:J:429:ARG:HD3	1:2:221:ILE:CG2	149.97	0.96
1:B:257:ARG:CD	1:C:37:SER:N	2.29	0.96
1:D:257:ARG:CD	1:E:37:SER:N	2.28	0.96
1:F:221:ILE:CG2	1:3:429:ARG:HD3	157.11	0.96
1:D:257:ARG:CD	1:F:37:SER:N	84.72	0.96
1:F:37:SER:N	1:G:257:ARG:CD	2.29	0.96
1:B:469:ALA:HB2	1:L:439:TYR:CE1	2.00	0.96
1:M:37:SER:N	1:N:257:ARG:CD	2.28	0.96
1:P:37:SER:N	1:Q:257:ARG:CD	2.29	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:37:SER:N	1:S:257:ARG:CD	2.28	0.96
1:C:37:SER:N	1:T:257:ARG:CD	162.64	0.96
1:X:257:ARG:CD	1:5:37:SER:N	2.28	0.96
1:U:37:SER:N	1:4:257:ARG:CD	2.28	0.96
1:F:257:ARG:CD	1:R:37:SER:N	2.28	0.96
1:G:37:SER:N	1:M:257:ARG:CD	158.74	0.96
1:G:439:TYR:CE1	1:I:469:ALA:HB2	1.99	0.96
1:I:37:SER:N	1:J:257:ARG:CD	2.29	0.96
1:K:469:ALA:HB2	1:M:439:TYR:CE1	109.33	0.96
1:O:37:SER:N	1:V:257:ARG:CD	110.94	0.96
1:H:439:TYR:CE1	1:O:469:ALA:HB2	191.12	0.96
1:N:429:ARG:HD3	1:P:221:ILE:CG2	1.95	0.96
1:O:257:ARG:CD	1:Y:37:SER:N	161.03	0.96
1:M:257:ARG:CD	1:2:37:SER:N	2.29	0.96
1:K:257:ARG:CD	1:6:37:SER:N	2.28	0.96
1:Y:469:ALA:HB2	1:6:439:TYR:CE1	166.63	0.96
1:G:429:ARG:HD3	1:I:221:ILE:CG2	1.95	0.96
1:G:96:THR:OG1	1:G:342:TYR:OH	1.83	0.96
1:J:37:SER:N	1:K:257:ARG:CD	82.58	0.96
1:D:37:SER:N	1:R:257:ARG:CD	111.72	0.96
1:T:221:ILE:CG2	1:V:429:ARG:HD3	128.07	0.96
1:N:37:SER:N	1:Z:257:ARG:CD	161.03	0.96
1:Z:439:TYR:CE1	1:6:469:ALA:HB2	126.48	0.96
1:A:37:SER:N	1:U:257:ARG:CD	144.38	0.96
1:A:439:TYR:CE1	1:5:469:ALA:HB2	159.50	0.96
1:A:469:ALA:HB2	1:B:439:TYR:CE1	78.60	0.96
1:B:439:TYR:CE1	1:J:469:ALA:HB2	2.00	0.96
1:J:429:ARG:HD3	1:L:221:ILE:CG2	1.95	0.96
1:L:439:TYR:CE1	1:M:469:ALA:HB2	87.41	0.96
1:K:37:SER:N	1:S:257:ARG:CD	157.82	0.96
1:A:257:ARG:CD	1:E:37:SER:N	22.23	0.96
1:I:469:ALA:HB2	1:2:439:TYR:CE1	166.64	0.96
1:B:429:ARG:HD3	1:J:221:ILE:CG2	1.94	0.96
1:R:469:ALA:HB2	1:U:439:TYR:CE1	1.99	0.96
1:T:469:ALA:HB2	1:V:439:TYR:CE1	105.68	0.96
1:O:257:ARG:CD	1:3:37:SER:N	2.29	0.96
1:A:98:ASN:HB3	1:B:316:ARG:HH22	80.63	0.96
1:G:439:TYR:CE1	1:H:469:ALA:HB2	64.87	0.96
1:H:37:SER:N	1:I:257:ARG:CD	2.29	0.96
1:L:37:SER:N	1:1:257:ARG:CD	2.28	0.96
1:O:37:SER:N	1:P:257:ARG:CD	2.28	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:257:ARG:CD	1:X:37:SER:N	103.98	0.96
1:S:439:TYR:CE1	1:U:469:ALA:HB2	2.00	0.96
1:T:439:TYR:CE1	1:3:469:ALA:HB2	1.99	0.96
1:B:37:SER:N	1:C:257:ARG:CG	22.27	0.96
1:C:221:ILE:CG2	1:M:429:ARG:HD3	1.95	0.96
1:D:429:ARG:HD3	1:E:221:ILE:CG2	104.68	0.96
1:F:439:TYR:CE1	1:T:469:ALA:HB2	126.48	0.96
1:I:257:ARG:CD	1:1:37:SER:N	111.72	0.96
1:F:221:ILE:CG2	1:Q:429:ARG:HD3	1.95	0.96
1:Q:429:ARG:HD3	1:R:221:ILE:CG2	79.70	0.96
1:T:37:SER:N	1:5:257:ARG:CD	100.72	0.96
1:T:37:SER:N	1:U:257:ARG:CD	2.29	0.96
1:Y:257:ARG:CD	1:7:37:SER:N	111.72	0.96
1:Z:257:ARG:CD	1:0:37:SER:N	2.29	0.96
1:V:429:ARG:HD3	1:4:221:ILE:CG2	1.95	0.96
1:C:469:ALA:HB2	1:E:439:TYR:CE1	122.92	0.96
1:I:37:SER:N	1:6:257:ARG:CD	100.23	0.96
1:M:37:SER:N	1:2:257:ARG:CD	22.24	0.96
1:R:257:ARG:CD	1:V:37:SER:N	2.29	0.96
1:W:429:ARG:HD3	1:Y:221:ILE:CG2	1.95	0.96
1:X:96:THR:OG1	1:X:342:TYR:OH	1.83	0.96
1:Y:316:ARG:HH21	1:Z:98:ASN:HB3	63.51	0.96
1:K:221:ILE:CG2	1:7:429:ARG:HD3	1.95	0.96
1:B:221:ILE:HG22	1:5:429:ARG:HD3	249.30	0.96
1:C:439:TYR:CE1	1:1:469:ALA:HB2	2.00	0.96
1:H:439:TYR:CE1	1:W:469:ALA:HB2	2.00	0.96
1:I:439:TYR:CE1	1:J:469:ALA:HB2	78.60	0.96
1:N:429:ARG:HD3	1:O:221:ILE:CG2	79.69	0.96
1:W:469:ALA:HB2	1:X:439:TYR:CE1	64.87	0.96
1:X:257:ARG:CD	1:Y:37:SER:N	22.24	0.96
1:W:429:ARG:HD3	1:Z:221:ILE:CG2	93.20	0.96
1:D:429:ARG:HD3	1:N:221:ILE:CG2	1.95	0.95
1:F:257:ARG:CD	1:H:37:SER:N	93.92	0.95
1:H:257:ARG:CD	1:Z:37:SER:N	2.29	0.95
1:T:429:ARG:HD3	1:U:221:ILE:CG2	72.89	0.95
1:X:37:SER:N	1:Y:257:ARG:CD	2.29	0.95
1:F:469:ALA:HB2	1:3:439:TYR:CE1	139.66	0.95
1:J:439:TYR:CE1	1:2:469:ALA:HB2	110.65	0.95
1:B:257:ARG:CD	1:4:37:SER:N	163.68	0.95
1:6:247:LEU:O	1:6:248:GLU:HB2	1.66	0.95
1:A:221:ILE:CG2	1:I:429:ARG:HD3	1.95	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:247:LEU:O	1:U:248:GLU:HB2	1.66	0.95
1:A:247:LEU:O	1:A:248:GLU:HB2	1.67	0.95
1:G:247:LEU:O	1:G:248:GLU:HB2	1.66	0.95
1:K:439:TYR:CE1	1:O:469:ALA:HB2	1.99	0.95
1:K:429:ARG:HD3	1:L:221:ILE:CG2	72.89	0.95
1:G:221:ILE:CG2	1:O:429:ARG:HD3	205.96	0.95
1:P:257:ARG:CD	1:U:37:SER:N	103.98	0.95
1:X:469:ALA:HB2	1:4:439:TYR:CE1	1.99	0.95
1:C:257:ARG:CD	1:D:37:SER:N	2.29	0.95
1:E:257:ARG:CD	1:Q:37:SER:N	90.29	0.95
1:B:247:LEU:O	1:B:248:GLU:HB2	1.67	0.95
1:J:257:ARG:CD	1:Z:37:SER:N	21.70	0.95
1:K:37:SER:N	1:L:257:ARG:CD	2.29	0.95
1:N:257:ARG:CD	1:S:37:SER:N	100.70	0.95
1:U:429:ARG:HD3	1:V:221:ILE:CG2	79.69	0.95
1:A:257:ARG:HG2	1:B:37:SER:CB	1.96	0.95
1:G:37:SER:N	1:W:257:ARG:CD	2.28	0.95
1:L:247:LEU:O	1:L:248:GLU:HB2	1.67	0.95
1:G:257:ARG:CD	1:N:37:SER:N	146.56	0.95
1:V:37:SER:N	1:W:257:ARG:CD	22.25	0.95
1:G:316:ARG:HH21	1:H:98:ASN:HB3	63.52	0.95
1:S:429:ARG:HD3	1:U:221:ILE:CG2	1.94	0.95
1:X:247:LEU:O	1:X:248:GLU:HB2	1.67	0.95
1:O:247:LEU:O	1:O:248:GLU:HB2	1.67	0.95
1:2:247:LEU:O	1:2:248:GLU:HB2	1.66	0.95
1:S:37:SER:N	1:3:257:ARG:CD	2.29	0.95
1:A:98:ASN:HB3	1:I:316:ARG:HH21	1.20	0.95
1:O:37:SER:CB	1:P:257:ARG:HG2	1.97	0.95
1:S:247:LEU:O	1:S:248:GLU:HB2	1.67	0.95
1:B:257:ARG:HD2	1:4:37:SER:HA	163.78	0.94
1:A:429:ARG:CD	1:5:221:ILE:HG22	205.52	0.94
1:F:247:LEU:O	1:F:248:GLU:HB2	1.67	0.94
1:I:247:LEU:O	1:I:248:GLU:HB2	1.66	0.94
1:N:247:LEU:O	1:N:248:GLU:HB2	1.67	0.94
1:O:257:ARG:HG2	1:Y:37:SER:CB	163.24	0.94
1:Q:247:LEU:O	1:Q:248:GLU:HB2	1.67	0.94
1:T:247:LEU:O	1:T:248:GLU:HB2	1.67	0.94
1:Z:247:LEU:O	1:Z:248:GLU:HB2	1.67	0.94
1:Z:429:ARG:HD3	1:6:221:ILE:CG2	169.97	0.94
1:Z:316:ARG:HH21	1:6:98:ASN:HB3	161.61	0.94
1:B:257:ARG:HD2	1:4:37:SER:N	163.23	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:257:ARG:HG2	1:R:37:SER:CB	1.97	0.94
1:K:96:THR:OG1	1:K:342:TYR:OH	1.82	0.94
1:W:98:ASN:HB3	1:X:316:ARG:HH21	63.52	0.94
1:U:37:SER:CB	1:4:257:ARG:HG2	1.97	0.94
1:B:221:ILE:CG2	1:5:429:ARG:HD3	249.11	0.94
1:L:257:ARG:CD	1:R:37:SER:N	151.67	0.94
1:B:98:ASN:CB	1:L:316:ARG:HH21	1.78	0.94
1:H:257:ARG:HG2	1:L:37:SER:CB	105.94	0.94
1:L:316:ARG:HH21	1:M:98:ASN:HB3	102.49	0.94
1:K:37:SER:CB	1:S:257:ARG:HG2	159.14	0.94
1:Z:316:ARG:HH21	1:6:98:ASN:CB	162.42	0.94
1:E:247:LEU:O	1:E:248:GLU:HB2	1.67	0.94
1:A:429:ARG:HD3	1:G:221:ILE:CG2	1.96	0.94
1:H:247:LEU:O	1:H:248:GLU:HB2	1.67	0.94
1:K:257:ARG:HG2	1:6:37:SER:CB	1.97	0.94
1:K:98:ASN:HB3	1:7:316:ARG:HH21	1.20	0.94
1:O:96:THR:OG1	1:O:342:TYR:OH	1.83	0.94
1:R:247:LEU:O	1:R:248:GLU:HB2	1.67	0.94
1:S:316:ARG:HH21	1:U:98:ASN:HB3	1.21	0.94
1:G:37:SER:CB	1:W:257:ARG:HG2	1.98	0.94
1:1:33:GLY:O	1:1:36:HIS:HD2	1.28	0.94
1:G:37:SER:CB	1:M:257:ARG:HG2	158.97	0.94
1:S:316:ARG:HH21	1:U:98:ASN:CB	1.78	0.94
1:C:37:SER:CB	1:T:257:ARG:HG2	163.73	0.94
1:V:37:SER:CB	1:W:257:ARG:HG2	25.44	0.94
1:H:316:ARG:HH21	1:W:98:ASN:HB3	1.21	0.94
1:E:96:THR:OG1	1:E:342:TYR:OH	1.83	0.94
1:T:316:ARG:HH21	1:U:98:ASN:HB3	80.23	0.94
1:C:247:LEU:O	1:C:248:GLU:HB2	1.67	0.94
1:I:257:ARG:HG2	1:1:37:SER:CB	113.73	0.94
1:A:257:ARG:HG2	1:E:37:SER:CB	25.43	0.94
1:E:221:ILE:HG22	1:F:429:ARG:CD	1.98	0.94
1:H:37:SER:CB	1:I:257:ARG:HG2	1.98	0.94
1:K:221:ILE:HG22	1:7:429:ARG:CD	1.98	0.94
1:O:429:ARG:CD	1:P:221:ILE:HG22	73.49	0.94
1:Y:247:LEU:O	1:Y:248:GLU:HB2	1.67	0.94
1:V:316:ARG:HH21	1:4:98:ASN:CB	1.78	0.94
1:W:37:SER:CB	1:7:257:ARG:HG2	146.40	0.94
1:H:316:ARG:HH21	1:O:98:ASN:HB3	207.68	0.94
1:P:247:LEU:O	1:P:248:GLU:HB2	1.67	0.94
1:P:96:THR:OG1	1:P:342:TYR:OH	1.83	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:257:ARG:HG2	1:X:37:SER:CB	105.94	0.94
1:X:257:ARG:HG2	1:5:37:SER:CB	1.97	0.94
1:O:316:ARG:HH21	1:7:98:ASN:CB	1.78	0.94
1:V:429:ARG:CD	1:4:221:ILE:HG22	1.98	0.94
1:A:34:VAL:HG22	1:B:36:HIS:NE2	1.83	0.94
1:A:98:ASN:CB	1:I:316:ARG:HH21	1.77	0.94
1:B:429:ARG:CD	1:J:221:ILE:HG22	1.98	0.94
1:K:98:ASN:CB	1:7:316:ARG:HH21	1.78	0.94
1:R:257:ARG:HG2	1:V:37:SER:CB	1.98	0.94
1:Q:37:SER:CB	1:S:257:ARG:HG2	1.97	0.94
1:A:37:SER:CB	1:U:257:ARG:HG2	142.35	0.94
1:V:257:ARG:HG2	1:W:37:SER:CB	1.98	0.94
1:Y:257:ARG:HG2	1:7:37:SER:CB	113.73	0.94
1:X:37:SER:CB	1:Y:257:ARG:HG2	1.99	0.94
1:Y:316:ARG:HH21	1:Z:98:ASN:CB	63.71	0.94
1:Z:257:ARG:HG2	1:O:37:SER:CB	1.98	0.94
1:V:316:ARG:HH21	1:4:98:ASN:HB3	1.20	0.93
1:D:257:ARG:HG2	1:F:37:SER:CB	84.38	0.93
1:H:37:SER:HG	1:I:257:ARG:HG2	1.12	0.93
1:R:316:ARG:HH21	1:S:98:ASN:CB	1.78	0.93
1:N:37:SER:CB	1:Z:257:ARG:HG2	163.23	0.93
1:X:221:ILE:HG22	1:Z:429:ARG:CD	129.83	0.93
1:B:257:ARG:HG2	1:C:37:SER:CB	1.97	0.93
1:B:98:ASN:HB3	1:L:316:ARG:HH21	1.20	0.93
1:C:96:THR:OG1	1:C:342:TYR:OH	1.83	0.93
1:C:429:ARG:CD	1:D:221:ILE:HG22	104.42	0.93
1:H:221:ILE:HG22	1:Y:429:ARG:CD	1.99	0.93
1:K:247:LEU:O	1:K:248:GLU:HB2	1.67	0.93
1:J:37:SER:CB	1:K:257:ARG:HG2	79.03	0.93
1:K:98:ASN:HB3	1:M:316:ARG:HH21	126.16	0.93
1:M:257:ARG:HG2	1:2:37:SER:CB	1.98	0.93
1:N:316:ARG:HH21	1:O:98:ASN:CB	63.70	0.93
1:F:98:ASN:CB	1:Q:316:ARG:HH21	1.78	0.93
1:W:429:ARG:CD	1:Y:221:ILE:HG22	1.98	0.93
1:W:429:ARG:CD	1:Z:221:ILE:HG22	93.61	0.93
1:M:221:ILE:HG22	1:1:429:ARG:CD	1.98	0.93
1:1:96:THR:OG1	1:1:342:TYR:OH	1.82	0.93
1:M:96:THR:OG1	1:M:342:TYR:OH	1.83	0.93
1:N:429:ARG:CD	1:O:221:ILE:HG22	80.94	0.93
1:F:221:ILE:HG22	1:Q:429:ARG:CD	1.98	0.93
1:Y:98:ASN:HB3	1:6:316:ARG:HH21	183.99	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:221:ILE:HG22	1:3:429:ARG:CD	156.40	0.93
1:4:96:THR:OG1	1:4:342:TYR:OH	1.83	0.93
1:F:37:SER:CB	1:G:257:ARG:HG2	1.98	0.93
1:J:429:ARG:CD	1:2:221:ILE:HG22	150.63	0.93
1:J:316:ARG:HH21	1:L:98:ASN:HB3	1.20	0.93
1:O:247:LEU:O	1:O:248:GLU:HB2	1.67	0.93
1:V:96:THR:OG1	1:V:342:TYR:OH	1.82	0.93
1:V:98:ASN:CB	1:X:316:ARG:HH21	1.78	0.93
1:C:246:PRO:O	1:C:249:THR:HG21	1.69	0.93
1:D:429:ARG:CD	1:N:221:ILE:HG22	1.98	0.93
1:G:257:ARG:HG2	1:N:37:SER:CB	146.40	0.93
1:G:98:ASN:HB3	1:O:316:ARG:HH21	201.86	0.93
1:M:98:ASN:HB3	1:1:316:ARG:HH21	1.21	0.93
1:P:37:SER:CB	1:Q:257:ARG:HG2	1.99	0.93
1:O:37:SER:CB	1:V:257:ARG:HG2	112.90	0.93
1:X:246:PRO:O	1:X:249:THR:HG21	1.69	0.93
1:1:246:PRO:O	1:1:249:THR:HG21	1.69	0.93
1:L:37:SER:CB	1:1:257:ARG:HG2	1.97	0.93
1:Z:429:ARG:CD	1:6:221:ILE:HG22	169.42	0.93
1:M:37:SER:CB	1:N:257:ARG:HG2	1.97	0.93
1:O:257:ARG:HG2	1:3:37:SER:CB	1.98	0.93
1:P:257:ARG:HG2	1:U:37:SER:CB	105.94	0.93
1:R:221:ILE:HG22	1:U:429:ARG:CD	1.98	0.93
1:D:37:SER:CB	1:R:257:ARG:HG2	113.73	0.93
1:T:316:ARG:HH21	1:U:98:ASN:CB	79.78	0.93
1:J:37:SER:CB	1:O:257:ARG:HG2	1.97	0.93
1:D:246:PRO:O	1:D:249:THR:HG21	1.69	0.93
1:D:257:ARG:HG2	1:E:37:SER:CB	1.97	0.93
1:H:246:PRO:O	1:H:249:THR:HG21	1.69	0.93
1:H:257:ARG:HG2	1:Z:37:SER:CB	1.97	0.93
1:K:37:SER:CB	1:L:257:ARG:HG2	1.98	0.93
1:Q:429:ARG:CD	1:R:221:ILE:HG22	80.95	0.93
1:S:429:ARG:CD	1:U:221:ILE:HG22	1.98	0.93
1:P:257:ARG:HG2	1:U:37:SER:HG	107.26	0.93
1:U:316:ARG:HH21	1:V:98:ASN:HB3	63.51	0.93
1:I:37:SER:CB	1:6:257:ARG:HG2	100.07	0.93
1:Y:221:ILE:HG22	1:6:429:ARG:CD	208.12	0.93
1:7:96:THR:OG1	1:7:342:TYR:OH	1.83	0.93
1:C:257:ARG:HG2	1:D:37:SER:CB	1.98	0.93
1:I:246:PRO:O	1:I:249:THR:HG21	1.69	0.93
1:L:257:ARG:HG2	1:R:37:SER:CB	151.23	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:246:PRO:O	1:M:249:THR:HG21	1.69	0.93
1:T:37:SER:CB	1:U:257:ARG:HG2	1.98	0.93
1:U:429:ARG:CD	1:V:221:ILE:HG22	80.94	0.93
1:X:257:ARG:HG2	1:Y:37:SER:CB	25.44	0.93
1:U:37:SER:N	1:4:257:ARG:HD2	1.84	0.93
1:A:257:ARG:HD2	1:B:37:SER:N	1.82	0.93
1:D:247:LEU:O	1:D:248:GLU:HB2	1.67	0.93
1:J:96:THR:OG1	1:J:342:TYR:OH	1.83	0.93
1:K:257:ARG:HD2	1:6:37:SER:N	1.84	0.93
1:O:246:PRO:O	1:O:249:THR:HG21	1.69	0.93
1:N:98:ASN:CB	1:P:316:ARG:HH21	43.28	0.93
1:D:221:ILE:HG22	1:P:429:ARG:CD	1.98	0.93
1:R:98:ASN:HB3	1:U:316:ARG:HH21	1.20	0.93
1:R:429:ARG:CD	1:S:221:ILE:HG22	1.98	0.93
1:T:246:PRO:O	1:T:249:THR:HG21	1.69	0.93
1:J:37:SER:N	1:0:257:ARG:HD2	1.84	0.93
1:M:37:SER:HG	1:2:257:ARG:HG2	25.59	0.93
1:A:221:ILE:CG2	1:B:429:ARG:HD3	72.89	0.93
1:B:246:PRO:O	1:B:249:THR:HG21	1.69	0.93
1:D:96:THR:OG1	1:D:342:TYR:OH	1.83	0.93
1:E:257:ARG:HG2	1:Q:37:SER:CB	88.64	0.93
1:F:98:ASN:CB	1:3:316:ARG:HH21	165.50	0.93
1:J:247:LEU:O	1:J:248:GLU:HB2	1.66	0.93
1:I:37:SER:CB	1:J:257:ARG:HG2	1.98	0.93
1:I:316:ARG:HH21	1:J:98:ASN:CB	79.78	0.93
1:K:246:PRO:O	1:K:249:THR:HG21	1.69	0.93
1:Q:221:ILE:HG22	1:S:429:ARG:CD	104.43	0.93
1:T:429:ARG:CD	1:U:221:ILE:HG22	73.50	0.93
1:T:37:SER:CB	1:5:257:ARG:HG2	101.07	0.92
1:A:37:SER:N	1:E:257:ARG:CD	2.31	0.92
1:D:429:ARG:CD	1:E:221:ILE:HG22	104.43	0.92
1:E:316:ARG:HH21	1:Q:98:ASN:CB	1.78	0.92
1:H:429:ARG:CD	1:W:221:ILE:HG22	1.98	0.92
1:L:246:PRO:O	1:L:249:THR:HG21	1.69	0.92
1:C:221:ILE:HG22	1:M:429:ARG:CD	1.98	0.92
1:K:221:ILE:HG22	1:M:429:ARG:CD	149.03	0.92
1:N:316:ARG:HH21	1:O:98:ASN:HB3	63.51	0.92
1:R:246:PRO:O	1:R:249:THR:HG21	1.69	0.92
1:Y:429:ARG:CD	1:Z:221:ILE:HG22	80.95	0.92
1:T:316:ARG:HH21	1:3:98:ASN:HB3	1.21	0.92
1:7:247:LEU:O	1:7:248:GLU:HB2	1.67	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:316:ARG:HH21	1:D:98:ASN:HB3	100.44	0.92
1:J:429:ARG:CD	1:L:221:ILE:HG22	1.98	0.92
1:M:247:LEU:O	1:M:248:GLU:HB2	1.66	0.92
1:T:221:ILE:HG22	1:V:429:ARG:CD	129.83	0.92
1:T:316:ARG:HH21	1:3:98:ASN:CB	1.78	0.92
1:V:246:PRO:O	1:V:249:THR:HG21	1.69	0.92
1:M:37:SER:CB	1:2:257:ARG:HG2	25.44	0.92
1:3:96:THR:OG1	1:3:342:TYR:OH	1.82	0.92
1:5:96:THR:OG1	1:5:342:TYR:OH	1.83	0.92
1:0:316:ARG:HH21	1:7:98:ASN:HB3	1.20	0.92
1:A:37:SER:HA	1:E:257:ARG:HD2	0.93	0.92
1:G:429:ARG:CD	1:I:221:ILE:HG22	1.99	0.92
1:H:429:ARG:CD	1:O:221:ILE:HG22	233.79	0.92
1:N:246:PRO:O	1:N:249:THR:HG21	1.69	0.92
1:W:221:ILE:HG22	1:X:429:ARG:CD	80.95	0.92
1:Y:246:PRO:O	1:Y:249:THR:HG21	1.69	0.92
1:Z:246:PRO:O	1:Z:249:THR:HG21	1.69	0.92
1:M:37:SER:N	1:2:257:ARG:HD2	22.63	0.92
1:J:316:ARG:HH21	1:2:98:ASN:CB	126.76	0.92
1:5:247:LEU:O	1:5:248:GLU:HB2	1.67	0.92
1:7:246:PRO:O	1:7:249:THR:HG21	1.69	0.92
1:A:221:ILE:HG22	1:I:429:ARG:CD	1.99	0.92
1:K:316:ARG:HH21	1:L:98:ASN:HB3	80.22	0.92
1:X:34:VAL:HG22	1:5:36:HIS:NE2	1.85	0.92
1:K:429:ARG:CD	1:L:221:ILE:HG22	73.49	0.92
1:J:316:ARG:HH21	1:L:98:ASN:CB	1.78	0.92
1:N:257:ARG:HG2	1:S:37:SER:CB	101.05	0.92
1:N:429:ARG:CD	1:P:221:ILE:HG22	1.98	0.92
1:S:246:PRO:O	1:S:249:THR:HG21	1.69	0.92
1:V:247:LEU:O	1:V:248:GLU:HB2	1.67	0.92
1:C:429:ARG:CD	1:I:221:ILE:HG22	1.98	0.92
1:E:246:PRO:O	1:E:249:THR:HG21	1.69	0.92
1:G:429:ARG:CD	1:H:221:ILE:HG22	80.95	0.92
1:I:316:ARG:HH21	1:J:98:ASN:HB3	80.23	0.92
1:L:429:ARG:CD	1:M:221:ILE:HG22	98.33	0.92
1:0:246:PRO:O	1:0:249:THR:HG21	1.69	0.92
1:0:429:ARG:CD	1:7:221:ILE:HG22	1.98	0.92
1:A:429:ARG:CD	1:G:221:ILE:HG22	2.00	0.92
1:D:98:ASN:CB	1:P:316:ARG:HH21	1.78	0.92
1:C:221:ILE:HG22	1:E:429:ARG:CD	135.96	0.92
1:F:257:ARG:HG2	1:H:37:SER:CB	92.24	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:429:ARG:CD	1:T:221:ILE:HG22	169.42	0.92
1:F:98:ASN:HB3	1:Q:316:ARG:HH21	1.20	0.92
1:I:98:ASN:CB	1:2:316:ARG:HH21	184.48	0.92
1:J:257:ARG:HG2	1:Z:37:SER:CB	25.69	0.92
1:G:221:ILE:HG22	1:O:429:ARG:CD	206.29	0.92
1:N:221:ILE:HG22	1:P:429:ARG:CD	26.25	0.92
1:A:36:HIS:NE2	1:U:34:VAL:HG22	145.89	0.92
1:X:257:ARG:HD2	1:5:37:SER:N	1.85	0.92
1:V:221:ILE:HG22	1:X:429:ARG:CD	1.98	0.92
1:S:37:SER:CB	1:3:257:ARG:HG2	1.98	0.92
1:B:257:ARG:HD2	1:C:37:SER:N	1.85	0.92
1:C:316:ARG:HH21	1:D:98:ASN:CB	100.88	0.92
1:F:257:ARG:HD2	1:H:37:SER:N	94.01	0.92
1:J:246:PRO:O	1:J:249:THR:HG21	1.69	0.92
1:J:37:SER:N	1:K:257:ARG:HD2	82.37	0.92
1:K:37:SER:N	1:L:257:ARG:HD2	1.85	0.92
1:M:37:SER:N	1:N:257:ARG:HD2	1.84	0.92
1:E:429:ARG:CD	1:Q:221:ILE:HG22	1.98	0.92
1:I:221:ILE:HG22	1:2:429:ARG:CD	208.13	0.92
1:T:429:ARG:CD	1:3:221:ILE:HG22	1.99	0.92
1:3:247:LEU:O	1:3:248:GLU:HB2	1.66	0.92
1:A:257:ARG:HG2	1:B:37:SER:HG	1.09	0.92
1:B:221:ILE:HG22	1:L:429:ARG:CD	1.98	0.92
1:U:96:THR:OG1	1:U:342:TYR:OH	1.82	0.92
1:Z:96:THR:OG1	1:Z:342:TYR:OH	1.83	0.92
1:M:98:ASN:CB	1:1:316:ARG:HH21	1.78	0.92
1:B:98:ASN:HA	1:5:323:SER:OG	231.41	0.92
1:F:316:ARG:HH21	1:T:98:ASN:CB	162.42	0.92
1:J:257:ARG:HD2	1:Z:37:SER:N	21.86	0.92
1:Q:246:PRO:O	1:Q:249:THR:HG21	1.69	0.92
1:D:37:SER:N	1:R:257:ARG:HD2	111.70	0.92
1:Q:98:ASN:CB	1:S:316:ARG:HH21	100.89	0.92
1:T:37:SER:N	1:U:257:ARG:HD2	1.85	0.92
1:V:98:ASN:HB3	1:X:316:ARG:HH21	1.20	0.92
1:B:37:SER:HA	1:C:257:ARG:HD2	23.46	0.91
1:G:246:PRO:O	1:G:249:THR:HG21	1.69	0.91
1:A:316:ARG:HH21	1:G:98:ASN:HB3	1.20	0.91
1:I:429:ARG:CD	1:J:221:ILE:HG22	73.50	0.91
1:L:96:THR:OG1	1:L:342:TYR:OH	1.83	0.91
1:O:257:ARG:HD2	1:3:37:SER:N	1.85	0.91
1:Q:96:THR:OG1	1:Q:342:TYR:OH	1.83	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:316:ARG:HH21	1:Q:98:ASN:HB3	1.20	0.91
1:5:246:PRO:O	1:5:249:THR:HG21	1.69	0.91
1:6:96:THR:OG1	1:6:342:TYR:OH	1.83	0.91
1:F:96:THR:OG1	1:F:342:TYR:OH	1.83	0.91
1:P:36:HIS:NE2	1:Q:34:VAL:HG22	1.87	0.91
1:V:34:VAL:HG22	1:W:36:HIS:NE2	1.85	0.91
1:J:36:HIS:NE2	1:O:34:VAL:HG22	1.85	0.91
1:W:36:HIS:NE2	1:7:34:VAL:HG22	148.20	0.91
1:G:37:SER:HG	1:W:257:ARG:HG2	1.16	0.91
1:P:246:PRO:O	1:P:249:THR:HG21	1.69	0.91
1:Q:37:SER:N	1:S:257:ARG:HD2	1.85	0.91
1:Z:257:ARG:HD2	1:O:37:SER:N	1.85	0.91
1:O:96:THR:OG1	1:O:342:TYR:OH	1.83	0.91
1:2:96:THR:OG1	1:2:342:TYR:OH	1.82	0.91
1:S:37:SER:N	1:3:257:ARG:HD2	1.85	0.91
1:F:257:ARG:HG2	1:H:37:SER:HG	93.26	0.91
1:Q:316:ARG:HH21	1:R:98:ASN:HB3	63.51	0.91
1:X:37:SER:N	1:Y:257:ARG:HD2	1.85	0.91
1:N:37:SER:N	1:Z:257:ARG:HD2	160.30	0.91
1:A:37:SER:HG	1:U:257:ARG:HG2	143.79	0.91
1:C:257:ARG:HD2	1:D:37:SER:N	1.85	0.91
1:D:257:ARG:HD2	1:F:37:SER:N	83.99	0.91
1:A:316:ARG:HH22	1:G:98:ASN:HB3	1.10	0.91
1:K:429:ARG:CD	1:O:221:ILE:HG22	1.98	0.91
1:W:247:LEU:O	1:W:248:GLU:HB2	1.66	0.91
1:6:246:PRO:O	1:6:249:THR:HG21	1.69	0.91
1:B:257:ARG:HG2	1:4:37:SER:HG	166.96	0.91
1:B:34:VAL:HG22	1:C:36:HIS:NE2	1.86	0.91
1:D:34:VAL:HG22	1:E:36:HIS:NE2	1.85	0.91
1:E:257:ARG:HD2	1:Q:37:SER:N	89.99	0.91
1:J:36:HIS:NE2	1:K:34:VAL:HG22	87.02	0.91
1:M:257:ARG:HD2	1:2:37:SER:N	1.85	0.91
1:X:221:ILE:HG22	1:4:429:ARG:CD	1.98	0.91
1:A:257:ARG:HD2	1:E:37:SER:N	22.62	0.91
1:O:316:ARG:HH21	1:P:98:ASN:HB3	80.22	0.91
1:F:34:VAL:HG22	1:R:36:HIS:NE2	1.86	0.91
1:4:246:PRO:O	1:4:249:THR:HG21	1.69	0.91
1:A:34:VAL:HG22	1:E:36:HIS:NE2	9.32	0.91
1:N:98:ASN:HB3	1:P:316:ARG:HH21	43.02	0.91
1:O:257:ARG:HD2	1:Y:37:SER:N	160.30	0.91
1:U:246:PRO:O	1:U:249:THR:HG21	1.69	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:34:VAL:HG22	1:U:36:HIS:NE2	97.30	0.91
1:G:37:SER:N	1:W:257:ARG:HD2	1.85	0.91
1:G:316:ARG:HH21	1:I:98:ASN:CB	1.78	0.91
1:O:34:VAL:HG22	1:Y:36:HIS:NE2	154.03	0.91
1:Q:316:ARG:HH22	1:R:98:ASN:HB3	64.37	0.91
1:K:37:SER:N	1:S:257:ARG:HD2	157.03	0.91
1:N:34:VAL:HG22	1:S:36:HIS:NE2	93.68	0.91
1:C:37:SER:N	1:T:257:ARG:HD2	162.15	0.91
1:Y:257:ARG:HD2	1:7:37:SER:N	111.70	0.91
1:I:247:LEU:O	1:I:248:GLU:HB2	1.67	0.91
1:W:37:SER:N	1:7:257:ARG:HD2	145.60	0.91
1:F:257:ARG:HD2	1:R:37:SER:N	1.85	0.91
1:D:316:ARG:HH21	1:N:98:ASN:HB3	1.20	0.91
1:D:316:ARG:HH22	1:N:98:ASN:HB3	1.08	0.91
1:V:37:SER:N	1:W:257:ARG:HD2	22.64	0.91
1:H:257:ARG:HD2	1:L:37:SER:N	103.79	0.90
1:I:257:ARG:HD2	1:I:37:SER:N	111.70	0.90
1:M:98:ASN:HB3	1:I:316:ARG:HH22	1.08	0.90
1:V:257:ARG:HD2	1:W:37:SER:N	1.84	0.90
1:X:37:SER:HA	1:Y:257:ARG:HD2	0.90	0.90
1:Z:257:ARG:HD2	1:O:37:SER:HA	0.90	0.90
1:B:98:ASN:HB3	1:5:316:ARG:HH22	235.71	0.90
1:I:37:SER:N	1:J:257:ARG:HD2	1.85	0.90
1:O:34:VAL:HG22	1:3:36:HIS:NE2	1.86	0.90
1:R:257:ARG:HD2	1:V:37:SER:N	1.85	0.90
1:A:37:SER:N	1:U:257:ARG:HD2	143.65	0.90
1:A:96:THR:OG1	1:A:342:TYR:OH	1.83	0.90
1:B:37:SER:N	1:C:257:ARG:HD2	22.63	0.90
1:C:316:ARG:HH21	1:I:98:ASN:CB	1.78	0.90
1:C:316:ARG:HH22	1:D:98:ASN:HB3	100.00	0.90
1:E:98:ASN:HB3	1:F:316:ARG:HH21	1.21	0.90
1:L:316:ARG:HH22	1:M:98:ASN:HB3	103.36	0.90
1:P:37:SER:N	1:Q:257:ARG:HD2	1.85	0.90
1:T:98:ASN:CB	1:V:316:ARG:HH21	101.66	0.90
1:R:34:VAL:HG22	1:V:36:HIS:NE2	1.86	0.90
1:W:98:ASN:CB	1:X:316:ARG:HH21	63.71	0.90
1:F:98:ASN:HB3	1:3:316:ARG:HH22	165.67	0.90
1:Y:257:ARG:HD2	1:7:37:SER:HA	112.54	0.90
1:A:246:PRO:O	1:A:249:THR:HG21	1.69	0.90
1:G:37:SER:N	1:M:257:ARG:HD2	158.25	0.90
1:N:257:ARG:HD2	1:S:37:SER:N	100.45	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:98:ASN:HB3	1:S:316:ARG:HH22	100.01	0.90
1:V:37:SER:HA	1:W:257:ARG:HD2	23.47	0.90
1:G:37:SER:HA	1:W:257:ARG:HD2	0.90	0.90
1:G:316:ARG:HH22	1:H:98:ASN:HB3	64.37	0.90
1:O:37:SER:N	1:P:257:ARG:HD2	1.85	0.90
1:R:257:ARG:HD2	1:V:37:SER:HA	0.90	0.90
1:Y:34:VAL:HG22	1:7:36:HIS:NE2	99.75	0.90
1:D:98:ASN:HB3	1:P:316:ARG:HH22	1.08	0.90
1:C:98:ASN:CB	1:E:316:ARG:HH21	131.31	0.90
1:D:257:ARG:HD2	1:F:37:SER:HA	83.18	0.90
1:M:257:ARG:HD2	1:2:37:SER:HA	0.90	0.90
1:V:316:ARG:HH22	1:4:98:ASN:HB3	1.08	0.90
1:W:246:PRO:O	1:W:249:THR:HG21	1.69	0.90
1:J:316:ARG:HH22	1:2:98:ASN:HB3	127.13	0.90
1:T:37:SER:HG	1:5:257:ARG:HG2	101.75	0.90
1:K:98:ASN:HB3	1:7:316:ARG:HH22	1.08	0.90
1:H:34:VAL:HG22	1:L:36:HIS:NE2	97.30	0.90
1:O:37:SER:HA	1:V:257:ARG:HD2	112.88	0.90
1:O:323:SER:OG	1:7:98:ASN:HA	1.72	0.90
1:L:37:SER:N	1:1:257:ARG:HD2	1.85	0.90
1:F:37:SER:HA	1:G:257:ARG:HD2	0.90	0.90
1:K:37:SER:HA	1:L:257:ARG:HD2	0.90	0.90
1:C:98:ASN:CB	1:M:316:ARG:HH21	1.78	0.90
1:M:36:HIS:NE2	1:N:34:VAL:HG22	1.85	0.90
1:N:96:THR:OG1	1:N:342:TYR:OH	1.83	0.90
1:D:316:ARG:HH21	1:N:98:ASN:CB	1.78	0.90
1:F:257:ARG:HG2	1:R:37:SER:HG	1.10	0.90
1:T:323:SER:OG	1:3:98:ASN:HA	1.72	0.90
1:P:257:ARG:HD2	1:U:37:SER:HA	103.25	0.90
1:V:98:ASN:HA	1:X:323:SER:OG	1.72	0.90
1:O:257:ARG:HD2	1:Y:37:SER:HA	160.94	0.90
1:A:323:SER:OG	1:G:98:ASN:HA	1.71	0.90
1:F:246:PRO:O	1:F:249:THR:HG21	1.69	0.90
1:H:316:ARG:HH21	1:W:98:ASN:CB	1.78	0.90
1:Q:98:ASN:HA	1:S:323:SER:OG	99.40	0.90
1:U:316:ARG:HH22	1:V:98:ASN:HB3	64.36	0.90
1:Y:323:SER:OG	1:Z:98:ASN:HA	62.18	0.90
1:4:247:LEU:O	1:4:248:GLU:HB2	1.67	0.90
1:T:37:SER:N	1:5:257:ARG:HD2	100.47	0.90
1:A:316:ARG:HH21	1:5:98:ASN:HB3	174.93	0.90
1:D:98:ASN:HA	1:P:323:SER:OG	1.72	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:257:ARG:HD2	1:R:37:SER:HA	0.90	0.90
1:F:36:HIS:NE2	1:G:34:VAL:HG22	1.86	0.90
1:I:323:SER:OG	1:J:98:ASN:HA	74.79	0.90
1:L:37:SER:HA	1:I:257:ARG:HD2	0.90	0.90
1:R:323:SER:OG	1:S:98:ASN:HA	1.72	0.90
1:D:36:HIS:NE2	1:R:34:VAL:HG22	99.75	0.90
1:U:37:SER:HA	1:4:257:ARG:HD2	0.89	0.89
1:K:257:ARG:HD2	1:6:37:SER:HA	0.89	0.89
1:A:316:ARG:HH21	1:G:98:ASN:CB	1.78	0.89
1:A:98:ASN:HB3	1:B:316:ARG:HH21	80.23	0.89
1:A:37:SER:CB	1:E:257:ARG:HG2	2.01	0.89
1:B:316:ARG:HH21	1:J:98:ASN:HB3	1.21	0.89
1:P:257:ARG:HD2	1:U:37:SER:N	103.79	0.89
1:Q:316:ARG:HH21	1:R:98:ASN:CB	63.71	0.89
1:O:36:HIS:NE2	1:V:34:VAL:HG22	97.88	0.89
1:U:316:ARG:HH21	1:V:98:ASN:CB	63.70	0.89
1:Y:98:ASN:HB3	1:6:316:ARG:HH22	185.44	0.89
1:D:316:ARG:HH21	1:E:98:ASN:CB	100.88	0.89
1:H:257:ARG:HD2	1:Z:37:SER:HA	0.90	0.89
1:K:323:SER:OG	1:0:98:ASN:HA	1.72	0.89
1:L:225:ASP:HB2	1:L:226:ARG:HB2	1.54	0.89
1:L:257:ARG:HD2	1:R:37:SER:HA	152.65	0.89
1:T:225:ASP:HB2	1:T:226:ARG:HB2	1.54	0.89
1:S:316:ARG:HH22	1:U:98:ASN:HB3	1.08	0.89
1:1:225:ASP:HB2	1:1:226:ARG:HB2	1.54	0.89
1:2:246:PRO:O	1:2:249:THR:HG21	1.69	0.89
1:B:221:ILE:HG22	1:5:429:ARG:CD	249.34	0.89
1:B:225:ASP:HB2	1:B:226:ARG:HB2	1.54	0.89
1:F:323:SER:OG	1:T:98:ASN:HA	161.38	0.89
1:J:225:ASP:HB2	1:J:226:ARG:HB2	1.54	0.89
1:G:36:HIS:NE2	1:M:34:VAL:HG22	152.65	0.89
1:O:323:SER:OG	1:P:98:ASN:HA	74.78	0.89
1:T:257:ARG:HD2	1:X:37:SER:N	103.79	0.89
1:X:98:ASN:HA	1:4:323:SER:OG	1.72	0.89
1:M:36:HIS:NE2	1:2:34:VAL:HG22	9.33	0.89
1:Z:316:ARG:HH22	1:6:98:ASN:HB3	161.60	0.89
1:C:225:ASP:HB2	1:C:226:ARG:HB2	1.54	0.89
1:E:98:ASN:HA	1:F:323:SER:OG	1.72	0.89
1:G:225:ASP:HB2	1:G:226:ARG:HB2	1.54	0.89
1:H:323:SER:OG	1:W:98:ASN:HA	1.73	0.89
1:H:37:SER:HA	1:I:257:ARG:HD2	0.90	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:225:ASP:HB2	1:I:226:ARG:HB2	1.54	0.89
1:I:98:ASN:HA	1:2:323:SER:OG	182.50	0.89
1:M:257:ARG:HG2	1:2:37:SER:HG	1.12	0.89
1:N:98:ASN:HA	1:P:323:SER:OG	42.47	0.89
1:C:36:HIS:NE2	1:T:34:VAL:HG22	153.47	0.89
1:U:323:SER:OG	1:V:98:ASN:HA	62.18	0.89
1:W:98:ASN:HA	1:X:323:SER:OG	62.19	0.89
1:X:34:VAL:HG22	1:Y:36:HIS:NE2	9.33	0.89
1:X:257:ARG:HD2	1:Y:37:SER:HA	23.46	0.89
1:C:98:ASN:HA	1:E:323:SER:OG	126.55	0.89
1:C:34:VAL:HG22	1:D:36:HIS:NE2	1.86	0.89
1:F:37:SER:N	1:G:257:ARG:HD2	1.85	0.89
1:B:98:ASN:HB3	1:L:316:ARG:HH22	1.08	0.89
1:L:323:SER:OG	1:M:98:ASN:HA	99.93	0.89
1:R:98:ASN:HB3	1:U:316:ARG:HH22	1.08	0.89
1:S:36:HIS:NE2	1:3:34:VAL:HG22	1.86	0.89
1:U:225:ASP:HB2	1:U:226:ARG:HB2	1.54	0.89
1:T:257:ARG:HD2	1:X:37:SER:HA	103.25	0.89
1:3:246:PRO:O	1:3:249:THR:HG21	1.69	0.89
1:5:225:ASP:HB2	1:5:226:ARG:HB2	1.54	0.89
1:6:225:ASP:HB2	1:6:226:ARG:HB2	1.54	0.89
1:B:257:ARG:HG2	1:4:37:SER:CB	165.14	0.89
1:A:257:ARG:CG	1:B:37:SER:N	2.36	0.89
1:D:257:ARG:HD2	1:E:37:SER:N	1.84	0.89
1:H:37:SER:N	1:I:257:ARG:HD2	1.85	0.89
1:G:37:SER:HA	1:M:257:ARG:HD2	158.65	0.89
1:V:257:ARG:HD2	1:W:37:SER:HA	0.90	0.89
1:K:34:VAL:HG22	1:6:36:HIS:NE2	1.85	0.89
1:F:98:ASN:HA	1:3:323:SER:OG	160.84	0.89
1:G:98:ASN:HB3	1:O:316:ARG:HH22	202.79	0.89
1:G:323:SER:OG	1:H:98:ASN:HA	62.19	0.89
1:G:257:ARG:HD2	1:N:37:SER:HA	145.39	0.89
1:N:37:SER:HA	1:Z:257:ARG:HD2	160.94	0.89
1:O:257:ARG:HD2	1:3:37:SER:HA	0.91	0.89
1:P:225:ASP:HB2	1:P:226:ARG:HB2	1.54	0.89
1:E:34:VAL:HG22	1:Q:36:HIS:NE2	91.60	0.89
1:E:323:SER:OG	1:Q:98:ASN:HA	1.72	0.89
1:R:98:ASN:HA	1:U:323:SER:OG	1.72	0.89
1:W:37:SER:HA	1:7:257:ARG:HD2	145.39	0.89
1:Y:98:ASN:HA	1:6:323:SER:OG	182.50	0.89
1:H:34:VAL:HG22	1:Z:36:HIS:NE2	1.86	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:225:ASP:HB2	1:A:226:ARG:HB2	1.54	0.89
1:D:257:ARG:HG2	1:F:37:SER:HG	85.60	0.89
1:C:257:ARG:HD2	1:D:37:SER:HA	0.91	0.89
1:D:323:SER:OG	1:E:98:ASN:HA	99.40	0.89
1:F:225:ASP:HB2	1:F:226:ARG:HB2	1.54	0.89
1:G:34:VAL:HG22	1:N:36:HIS:NE2	148.20	0.89
1:H:257:ARG:HD2	1:L:37:SER:HA	103.26	0.89
1:I:34:VAL:HG22	1:I:36:HIS:NE2	99.75	0.89
1:N:257:ARG:HG2	1:S:37:SER:HG	101.75	0.89
1:O:36:HIS:NE2	1:P:34:VAL:HG22	1.85	0.89
1:O:37:SER:N	1:V:257:ARG:HD2	110.93	0.89
1:X:36:HIS:NE2	1:Y:34:VAL:HG22	1.86	0.89
1:J:34:VAL:HG22	1:Z:36:HIS:NE2	8.97	0.89
1:J:323:SER:OG	1:2:98:ASN:HA	127.94	0.89
1:S:37:SER:HA	1:3:257:ARG:HD2	0.90	0.89
1:B:96:THR:OG1	1:B:342:TYR:OH	1.83	0.89
1:C:323:SER:OG	1:I:98:ASN:HA	1.72	0.89
1:E:225:ASP:HB2	1:E:226:ARG:HB2	1.54	0.89
1:I:98:ASN:HB3	1:2:316:ARG:HH22	185.44	0.89
1:J:37:SER:HA	1:K:257:ARG:HD2	81.85	0.89
1:J:323:SER:OG	1:L:98:ASN:HA	1.72	0.89
1:C:98:ASN:HA	1:M:323:SER:OG	1.72	0.89
1:Q:37:SER:HA	1:S:257:ARG:HD2	0.90	0.89
1:T:323:SER:OG	1:U:98:ASN:HA	74.79	0.89
1:2:225:ASP:HB2	1:2:226:ARG:HB2	1.55	0.89
1:D:257:ARG:HD2	1:E:37:SER:HA	0.90	0.89
1:F:34:VAL:HG22	1:H:36:HIS:NE2	91.36	0.89
1:H:225:ASP:HB2	1:H:226:ARG:HB2	1.54	0.89
1:I:316:ARG:HH22	1:J:98:ASN:HB3	80.62	0.89
1:K:316:ARG:HH22	1:L:98:ASN:HB3	80.62	0.89
1:E:257:ARG:HD2	1:Q:37:SER:HA	89.16	0.89
1:Z:34:VAL:HG22	1:O:36:HIS:NE2	1.86	0.89
1:F:257:ARG:HD2	1:H:37:SER:HA	93.54	0.88
1:H:323:SER:OG	1:O:98:ASN:HA	205.22	0.88
1:A:98:ASN:HA	1:I:323:SER:OG	1.72	0.88
1:I:36:HIS:NE2	1:J:34:VAL:HG22	1.86	0.88
1:B:323:SER:OG	1:J:98:ASN:HA	1.73	0.88
1:N:225:ASP:HB2	1:N:226:ARG:HB2	1.54	0.88
1:P:37:SER:HA	1:Q:257:ARG:HD2	0.91	0.88
1:X:225:ASP:HB2	1:X:226:ARG:HB2	1.54	0.88
1:O:257:ARG:CG	1:Y:37:SER:N	161.90	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:257:ARG:CG	1:R:37:SER:N	2.37	0.88
1:K:98:ASN:HA	1:M:323:SER:OG	127.27	0.88
1:M:37:SER:HA	1:2:257:ARG:HD2	23.46	0.88
1:N:323:SER:OG	1:P:98:ASN:HA	1.72	0.88
1:R:225:ASP:HB2	1:R:226:ARG:HB2	1.54	0.88
1:W:323:SER:OG	1:Y:98:ASN:HA	1.72	0.88
1:X:257:ARG:CG	1:Y:37:SER:N	22.27	0.88
1:L:36:HIS:NE2	1:1:34:VAL:HG22	1.86	0.88
1:T:316:ARG:HH22	1:3:98:ASN:HB3	1.08	0.88
1:U:37:SER:N	1:4:257:ARG:CG	2.37	0.88
1:G:316:ARG:HH22	1:I:98:ASN:HB3	1.08	0.88
1:L:37:SER:N	1:1:257:ARG:CG	2.37	0.88
1:D:37:SER:HA	1:R:257:ARG:HD2	112.54	0.88
1:S:225:ASP:HB2	1:S:226:ARG:HB2	1.54	0.88
1:U:36:HIS:NE2	1:4:34:VAL:HG22	1.85	0.88
1:X:257:ARG:HG2	1:5:37:SER:HG	1.09	0.88
1:Z:225:ASP:HB2	1:Z:226:ARG:HB2	1.54	0.88
1:H:257:ARG:CG	1:Z:37:SER:N	2.37	0.88
1:T:37:SER:HA	1:5:257:ARG:HD2	102.41	0.88
1:A:323:SER:OG	1:5:98:ASN:HA	175.14	0.88
1:I:37:SER:N	1:6:257:ARG:HD2	100.29	0.88
1:K:257:ARG:CG	1:6:37:SER:N	2.37	0.88
1:7:225:ASP:HB2	1:7:226:ARG:HB2	1.54	0.88
1:H:96:THR:OG1	1:H:342:TYR:OH	1.83	0.88
1:K:36:HIS:NE2	1:S:34:VAL:HG22	151.73	0.88
1:K:98:ASN:CB	1:M:316:ARG:HH21	126.18	0.88
1:L:316:ARG:HH21	1:M:98:ASN:CB	103.35	0.88
1:M:37:SER:HA	1:N:257:ARG:HD2	0.89	0.88
1:N:323:SER:OG	1:O:98:ASN:HA	62.18	0.88
1:F:98:ASN:HA	1:Q:323:SER:OG	1.72	0.88
1:L:34:VAL:HG22	1:R:36:HIS:NE2	148.48	0.88
1:N:257:ARG:HD2	1:S:37:SER:HA	102.39	0.88
1:T:37:SER:N	1:5:257:ARG:CG	99.59	0.88
1:X:257:ARG:HD2	1:Y:37:SER:N	22.63	0.88
1:W:323:SER:OG	1:Z:98:ASN:HA	75.80	0.88
1:B:36:HIS:NE2	1:C:34:VAL:HG22	9.33	0.88
1:F:316:ARG:HH22	1:T:98:ASN:HB3	161.60	0.88
1:H:257:ARG:CG	1:L:37:SER:N	104.81	0.88
1:G:316:ARG:HH21	1:H:98:ASN:CB	63.71	0.88
1:O:37:SER:N	1:P:257:ARG:CG	2.37	0.88
1:K:37:SER:N	1:S:257:ARG:CG	158.75	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:98:ASN:HB3	1:V:316:ARG:HH22	103.28	0.88
1:V:225:ASP:HB2	1:V:226:ARG:HB2	1.54	0.88
1:V:36:HIS:NE2	1:W:34:VAL:HG22	9.34	0.88
1:W:316:ARG:HH22	1:Y:98:ASN:HB3	1.08	0.88
1:I:37:SER:N	1:6:257:ARG:CG	99.97	0.88
1:D:316:ARG:HH22	1:E:98:ASN:HB3	100.00	0.88
1:G:98:ASN:CB	1:O:316:ARG:HH21	201.76	0.88
1:H:316:ARG:HH21	1:O:98:ASN:CB	207.58	0.88
1:I:37:SER:HA	1:J:257:ARG:HD2	0.90	0.88
1:N:37:SER:HG	1:Z:257:ARG:HG2	164.95	0.88
1:T:36:HIS:NE2	1:5:34:VAL:HG22	93.71	0.88
1:J:37:SER:N	1:0:257:ARG:CG	2.37	0.88
1:O:257:ARG:CG	1:3:37:SER:N	2.37	0.88
1:V:323:SER:OG	1:4:98:ASN:HA	1.72	0.88
1:B:98:ASN:HA	1:L:323:SER:OG	1.72	0.88
1:C:316:ARG:HH22	1:1:98:ASN:HB3	1.08	0.88
1:B:257:ARG:HD2	1:C:37:SER:HA	0.90	0.88
1:G:37:SER:N	1:M:257:ARG:CG	158.20	0.88
1:K:36:HIS:NE2	1:L:34:VAL:HG22	1.86	0.88
1:S:323:SER:OG	1:U:98:ASN:HA	1.73	0.88
1:T:96:THR:OG1	1:T:342:TYR:OH	1.83	0.88
1:T:37:SER:N	1:U:257:ARG:CG	2.37	0.88
1:X:98:ASN:HA	1:Z:323:SER:OG	100.62	0.88
1:Y:225:ASP:HB2	1:Y:226:ARG:HB2	1.54	0.88
1:A:37:SER:N	1:E:257:ARG:HD2	1.87	0.88
1:I:37:SER:N	1:J:257:ARG:CG	2.37	0.88
1:J:37:SER:N	1:K:257:ARG:CG	81.35	0.88
1:M:225:ASP:HB2	1:M:226:ARG:HB2	1.54	0.88
1:M:34:VAL:HG22	1:2:36:HIS:NE2	1.86	0.88
1:G:257:ARG:CG	1:N:37:SER:N	147.18	0.88
1:G:36:HIS:NE2	1:W:34:VAL:HG22	1.86	0.88
1:0:225:ASP:HB2	1:0:226:ARG:HB2	1.54	0.88
1:W:37:SER:N	1:7:257:ARG:CG	147.19	0.88
1:D:34:VAL:HG22	1:F:36:HIS:NE2	89.27	0.88
1:D:257:ARG:CG	1:E:37:SER:N	2.37	0.88
1:H:98:ASN:HA	1:Y:323:SER:OG	1.72	0.88
1:I:37:SER:HA	1:6:257:ARG:HD2	101.61	0.88
1:K:316:ARG:HH21	1:L:98:ASN:CB	79.78	0.88
1:P:37:SER:N	1:Q:257:ARG:CG	2.38	0.88
1:K:37:SER:HA	1:S:257:ARG:HD2	158.57	0.88
1:W:316:ARG:HH22	1:Z:98:ASN:HB3	72.47	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:257:ARG:HD2	1:I:37:SER:HA	112.54	0.88
1:C:98:ASN:HB3	1:M:316:ARG:HH22	1.08	0.88
1:D:225:ASP:HB2	1:D:226:ARG:HB2	1.54	0.88
1:H:257:ARG:HD2	1:Z:37:SER:N	1.85	0.88
1:K:98:ASN:HA	1:7:323:SER:OG	1.72	0.88
1:T:37:SER:HA	1:U:257:ARG:HD2	0.90	0.88
1:V:257:ARG:CG	1:W:37:SER:N	2.37	0.88
1:X:257:ARG:CG	1:5:37:SER:N	2.37	0.88
1:Z:323:SER:OG	1:6:98:ASN:HA	161.38	0.88
1:I:36:HIS:NE2	1:6:34:VAL:HG22	92.69	0.87
1:A:36:HIS:NE2	1:E:34:VAL:HG22	1.89	0.87
1:A:257:ARG:HD2	1:E:37:SER:HA	23.45	0.87
1:G:98:ASN:HA	1:O:323:SER:OG	196.58	0.87
1:G:323:SER:OG	1:I:98:ASN:HA	1.72	0.87
1:I:37:SER:HG	1:J:257:ARG:HG2	1.09	0.87
1:L:257:ARG:CG	1:R:37:SER:N	151.19	0.87
1:L:257:ARG:HG2	1:R:37:SER:HG	152.51	0.87
1:O:225:ASP:HB2	1:O:226:ARG:HB2	1.54	0.87
1:T:257:ARG:HG2	1:X:37:SER:HG	107.27	0.87
1:A:257:ARG:HD2	1:B:37:SER:HA	0.89	0.87
1:C:98:ASN:HB3	1:E:316:ARG:HH22	132.28	0.87
1:K:257:ARG:HG2	1:6:37:SER:HG	1.07	0.87
1:K:323:SER:OG	1:L:98:ASN:HA	74.78	0.87
1:N:37:SER:N	1:Z:257:ARG:CG	161.89	0.87
1:D:323:SER:OG	1:N:98:ASN:HA	1.72	0.87
1:O:316:ARG:HH22	1:P:98:ASN:HB3	80.62	0.87
1:N:257:ARG:CG	1:S:37:SER:N	99.56	0.87
1:T:98:ASN:HA	1:V:323:SER:OG	100.62	0.87
1:T:257:ARG:CG	1:X:37:SER:N	104.81	0.87
1:Y:98:ASN:CB	1:6:316:ARG:HH21	184.48	0.87
1:Z:257:ARG:CG	1:0:37:SER:N	2.38	0.87
1:M:257:ARG:CG	1:2:37:SER:N	2.37	0.87
1:D:257:ARG:CG	1:F:37:SER:N	86.05	0.87
1:H:37:SER:N	1:I:257:ARG:CG	2.37	0.87
1:K:225:ASP:HB2	1:K:226:ARG:HB2	1.54	0.87
1:Q:323:SER:OG	1:R:98:ASN:HA	62.19	0.87
1:Q:37:SER:N	1:S:257:ARG:CG	2.37	0.87
1:T:34:VAL:HG22	1:X:36:HIS:NE2	97.30	0.87
1:X:98:ASN:CB	1:4:316:ARG:HH21	1.78	0.87
1:B:35:GLY:O	1:C:257:ARG:NH1	18.90	0.87
1:C:37:SER:HA	1:T:257:ARG:HD2	163.58	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:98:ASN:HB3	1:Q:316:ARG:HH22	1.08	0.87
1:F:37:SER:N	1:G:257:ARG:CG	2.37	0.87
1:B:316:ARG:HH21	1:J:98:ASN:CB	1.78	0.87
1:M:37:SER:N	1:N:257:ARG:CG	2.37	0.87
1:O:37:SER:N	1:V:257:ARG:CG	110.65	0.87
1:N:316:ARG:HH22	1:O:98:ASN:HB3	64.37	0.87
1:C:37:SER:N	1:T:257:ARG:CG	162.19	0.87
1:T:36:HIS:NE2	1:U:34:VAL:HG22	1.86	0.87
1:P:257:ARG:CG	1:U:37:SER:N	104.81	0.87
1:W:316:ARG:HH21	1:Y:98:ASN:CB	1.78	0.87
1:X:37:SER:N	1:Y:257:ARG:CG	2.38	0.87
1:W:316:ARG:HH21	1:Z:98:ASN:CB	72.99	0.87
1:F:257:ARG:CG	1:H:37:SER:N	93.47	0.87
1:D:37:SER:N	1:R:257:ARG:CG	111.27	0.87
1:R:316:ARG:HH22	1:S:98:ASN:HB3	1.08	0.87
1:R:98:ASN:CB	1:U:316:ARG:HH21	1.78	0.87
1:I:257:ARG:CG	1:I:37:SER:N	111.27	0.87
1:H:36:HIS:NE2	1:I:34:VAL:HG22	1.86	0.87
1:J:257:ARG:HD2	1:Z:37:SER:HA	23.45	0.87
1:N:36:HIS:NE2	1:Z:34:VAL:HG22	154.03	0.87
1:O:37:SER:HA	1:P:257:ARG:HD2	0.89	0.87
1:S:37:SER:N	1:3:257:ARG:CG	2.37	0.87
1:V:37:SER:N	1:W:257:ARG:CG	22.28	0.87
1:B:34:VAL:HG22	1:4:36:HIS:NE2	154.74	0.87
1:G:37:SER:N	1:W:257:ARG:CG	2.37	0.87
1:J:257:ARG:CG	1:Z:37:SER:N	22.60	0.87
1:K:316:ARG:HH21	1:O:98:ASN:CB	1.78	0.87
1:M:37:SER:HG	1:N:257:ARG:HG2	1.05	0.87
1:Q:36:HIS:NE2	1:S:34:VAL:HG22	1.85	0.87
1:M:37:SER:N	1:2:257:ARG:CG	22.27	0.87
1:4:225:ASP:HB2	1:4:226:ARG:HB2	1.54	0.87
1:A:316:ARG:HH21	1:5:98:ASN:CB	175.11	0.87
1:E:98:ASN:HB3	1:F:316:ARG:HH22	1.08	0.87
1:J:37:SER:HA	1:O:257:ARG:HD2	0.90	0.87
1:M:98:ASN:HA	1:I:323:SER:OG	1.73	0.87
1:A:37:SER:N	1:U:257:ARG:CG	143.87	0.87
1:C:323:SER:OG	1:D:98:ASN:HA	99.40	0.87
1:N:316:ARG:HH22	1:P:98:ASN:HB3	1.08	0.87
1:A:37:SER:HA	1:U:257:ARG:HD2	144.30	0.87
1:3:225:ASP:HB2	1:3:226:ARG:HB2	1.54	0.86
1:B:257:ARG:CG	1:C:37:SER:N	2.37	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:257:ARG:HD2	1:R:37:SER:N	150.94	0.86
1:O:257:ARG:HG2	1:3:37:SER:HG	1.06	0.86
1:G:257:ARG:HD2	1:N:37:SER:N	145.60	0.86
1:Q:225:ASP:HB2	1:Q:226:ARG:HB2	1.54	0.86
1:X:98:ASN:HB3	1:Z:316:ARG:HH22	103.28	0.86
1:A:257:ARG:CG	1:E:37:SER:N	22.26	0.86
1:H:98:ASN:CB	1:Y:316:ARG:HH21	1.78	0.86
1:T:316:ARG:HH22	1:U:98:ASN:HB3	80.62	0.86
1:H:98:ASN:HB3	1:Y:316:ARG:HH22	1.08	0.86
1:B:98:ASN:CB	1:5:316:ARG:HH21	235.11	0.86
1:E:257:ARG:CG	1:Q:37:SER:N	89.14	0.86
1:J:37:SER:HG	1:0:257:ARG:HG2	1.05	0.86
1:A:98:ASN:CB	1:B:316:ARG:HH21	79.79	0.86
1:A:221:ILE:HG22	1:B:429:ARG:CD	73.50	0.86
1:G:257:ARG:HG2	1:N:37:SER:HG	148.09	0.86
1:H:316:ARG:HH22	1:O:98:ASN:HB3	209.15	0.86
1:X:98:ASN:CB	1:Z:316:ARG:HH21	101.66	0.86
1:Y:316:ARG:HH22	1:Z:98:ASN:HB3	64.37	0.86
1:C:257:ARG:CG	1:D:37:SER:N	2.38	0.86
1:K:98:ASN:HB3	1:M:316:ARG:HH22	126.37	0.86
1:K:37:SER:N	1:L:257:ARG:CG	2.38	0.86
1:N:316:ARG:HH21	1:P:98:ASN:CB	1.78	0.86
1:R:257:ARG:HG2	1:V:37:SER:HG	1.08	0.86
1:Y:257:ARG:CG	1:7:37:SER:N	111.27	0.86
1:A:257:ARG:NH1	1:B:35:GLY:O	2.08	0.86
1:K:316:ARG:HH22	1:0:98:ASN:HB3	1.08	0.86
1:W:225:ASP:HB2	1:W:226:ARG:HB2	1.54	0.86
1:O:257:ARG:HG2	1:Y:37:SER:HG	164.95	0.86
1:A:98:ASN:HB3	1:I:316:ARG:HH22	1.07	0.86
1:R:257:ARG:CG	1:V:37:SER:N	2.38	0.86
1:X:257:ARG:HD2	1:5:37:SER:HA	0.88	0.86
1:V:37:SER:HG	1:W:257:ARG:HG2	25.63	0.85
1:Y:257:ARG:HG2	1:7:37:SER:HG	114.90	0.85
1:Z:257:ARG:HG2	1:0:37:SER:HG	1.09	0.85
1:A:98:ASN:HA	1:B:323:SER:OG	74.79	0.85
1:H:316:ARG:HH22	1:W:98:ASN:HB3	1.08	0.85
1:J:37:SER:HG	1:K:257:ARG:HG2	79.98	0.85
1:X:98:ASN:HB3	1:4:316:ARG:HH22	1.08	0.85
1:B:37:SER:CA	1:C:257:ARG:CG	23.20	0.85
1:E:316:ARG:HH22	1:Q:98:ASN:HB3	1.07	0.85
1:B:316:ARG:HH22	1:J:98:ASN:HB3	1.08	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:98:ASN:HB3	1:X:316:ARG:HH22	64.37	0.85
1:S:96:THR:OG1	1:S:342:TYR:OH	1.83	0.85
1:J:316:ARG:HH22	1:L:98:ASN:HB3	1.08	0.85
1:A:316:ARG:HH22	1:5:98:ASN:HB3	176.18	0.85
1:B:37:SER:HG	1:C:257:ARG:HG2	25.63	0.85
1:K:35:GLY:O	1:S:257:ARG:NH1	161.21	0.85
1:A:37:SER:N	1:E:257:ARG:CG	2.39	0.85
1:B:37:SER:N	1:C:257:ARG:HG3	21.58	0.85
1:A:84:LEU:HD12	1:I:319:PRO:HD3	1.59	0.85
1:N:98:ASN:HB3	1:P:316:ARG:HH22	42.27	0.85
1:A:319:PRO:HD3	1:G:84:LEU:HD12	1.59	0.85
1:J:35:GLY:O	1:O:257:ARG:NH1	2.10	0.85
1:K:37:SER:HG	1:L:257:ARG:HG2	1.04	0.85
1:M:35:GLY:O	1:N:257:ARG:NH1	2.10	0.85
1:X:257:ARG:HG2	1:Y:37:SER:HG	25.57	0.85
1:D:35:GLY:O	1:R:257:ARG:NH1	111.64	0.84
1:H:257:ARG:NH1	1:L:35:GLY:O	103.85	0.84
1:O:35:GLY:O	1:P:257:ARG:NH1	2.10	0.84
1:C:35:GLY:O	1:T:257:ARG:NH1	165.45	0.84
1:J:133:CYS:HA	1:J:522:LEU:HA	1.60	0.84
1:L:133:CYS:HA	1:L:522:LEU:HA	1.60	0.84
1:K:319:PRO:HD3	1:O:84:LEU:HD12	1.59	0.84
1:K:257:ARG:NH1	1:6:35:GLY:O	2.10	0.84
1:B:37:SER:OG	1:C:257:ARG:N	25.91	0.84
1:G:133:CYS:HA	1:G:522:LEU:HA	1.60	0.84
1:I:133:CYS:HA	1:I:522:LEU:HA	1.60	0.84
1:U:35:GLY:O	1:4:257:ARG:NH1	2.10	0.84
1:B:257:ARG:NH1	1:C:35:GLY:O	2.11	0.84
1:D:257:ARG:NH1	1:E:35:GLY:O	2.10	0.84
1:I:133:CYS:HA	1:I:522:LEU:HA	1.60	0.84
1:T:133:CYS:HA	1:T:522:LEU:HA	1.60	0.84
1:5:133:CYS:HA	1:5:522:LEU:HA	1.60	0.84
1:B:96:THR:HG1	1:B:342:TYR:HH	1.17	0.84
1:K:84:LEU:HD12	1:7:319:PRO:HD3	1.60	0.84
1:P:35:GLY:O	1:Q:257:ARG:NH1	2.11	0.84
1:I:257:ARG:NH1	1:1:35:GLY:O	111.64	0.84
1:W:35:GLY:O	1:7:257:ARG:NH1	150.64	0.84
1:C:133:CYS:HA	1:C:522:LEU:HA	1.60	0.84
1:C:84:LEU:HD12	1:M:319:PRO:HD3	1.60	0.84
1:G:35:GLY:O	1:M:257:ARG:NH1	161.84	0.84
1:T:319:PRO:HD3	1:U:84:LEU:HD12	86.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:257:ARG:NH1	1:5:35:GLY:O	2.11	0.84
1:B:257:ARG:CG	1:4:37:SER:N	163.86	0.84
1:C:319:PRO:HD3	1:D:84:LEU:HD12	104.41	0.84
1:H:35:GLY:O	1:I:257:ARG:NH1	2.11	0.84
1:M:84:LEU:HD12	1:1:319:PRO:HD3	1.60	0.84
1:V:319:PRO:HD3	1:4:84:LEU:HD12	1.60	0.84
1:T:257:ARG:NH1	1:X:35:GLY:O	103.85	0.84
1:X:84:LEU:HD12	1:4:319:PRO:HD3	1.60	0.84
1:U:319:PRO:HD3	1:V:84:LEU:HD12	61.95	0.84
1:V:257:ARG:NH1	1:W:35:GLY:O	2.10	0.84
1:B:84:LEU:HD12	1:L:319:PRO:HD3	1.59	0.84
1:D:319:PRO:HD3	1:E:84:LEU:HD12	104.41	0.84
1:E:98:ASN:CB	1:F:316:ARG:HH21	1.78	0.84
1:K:133:CYS:HA	1:K:522:LEU:HA	1.60	0.84
1:N:84:LEU:HD12	1:P:319:PRO:HD3	50.70	0.84
1:O:37:SER:HG	1:P:257:ARG:HG2	1.04	0.84
1:E:319:PRO:HD3	1:Q:84:LEU:HD12	1.60	0.84
1:4:133:CYS:HA	1:4:522:LEU:HA	1.60	0.84
1:E:133:CYS:HA	1:E:522:LEU:HA	1.60	0.84
1:D:257:ARG:NH1	1:F:35:GLY:O	87.65	0.84
1:H:257:ARG:HG2	1:Z:37:SER:HG	1.01	0.84
1:F:257:ARG:NH1	1:H:35:GLY:O	97.14	0.84
1:M:35:GLY:O	1:2:257:ARG:NH1	18.90	0.84
1:O:316:ARG:HH21	1:P:98:ASN:CB	79.78	0.84
1:U:37:SER:HG	1:4:257:ARG:HG2	1.03	0.84
1:V:98:ASN:HB3	1:X:316:ARG:HH22	1.08	0.83
1:M:257:ARG:NH1	1:2:35:GLY:O	2.11	0.83
1:6:93:GLY:O	1:6:96:THR:CG2	2.26	0.83
1:A:257:ARG:NH1	1:E:35:GLY:O	18.89	0.83
1:D:257:ARG:HG2	1:E:37:SER:HG	1.01	0.83
1:M:133:CYS:HA	1:M:522:LEU:HA	1.60	0.83
1:S:319:PRO:HD3	1:U:84:LEU:HD12	1.60	0.83
1:U:133:CYS:HA	1:U:522:LEU:HA	1.60	0.83
1:Y:133:CYS:HA	1:Y:522:LEU:HA	1.59	0.83
1:6:133:CYS:HA	1:6:522:LEU:HA	1.60	0.83
1:Z:319:PRO:HD3	1:6:84:LEU:HD12	168.71	0.83
1:D:133:CYS:HA	1:D:522:LEU:HA	1.60	0.83
1:W:133:CYS:HA	1:W:522:LEU:HA	1.60	0.83
1:O:257:ARG:NH1	1:Y:35:GLY:O	162.81	0.83
1:P:133:CYS:HA	1:P:522:LEU:HA	1.60	0.83
1:P:37:SER:HG	1:Q:257:ARG:HG2	0.98	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:300:GLY:HA2	1:Y:301:GLN:HB3	1.61	0.83
1:C:319:PRO:HD3	1:1:84:LEU:HD12	1.60	0.83
1:G:257:ARG:NH1	1:N:35:GLY:O	150.64	0.83
1:N:133:CYS:HA	1:N:522:LEU:HA	1.60	0.83
1:R:300:GLY:HA2	1:R:301:GLN:HB3	1.61	0.83
1:A:35:GLY:O	1:U:257:ARG:NH1	150.26	0.83
1:Z:133:CYS:HA	1:Z:522:LEU:HA	1.60	0.83
1:O:316:ARG:HH22	1:7:98:ASN:HB3	1.08	0.83
1:B:133:CYS:HA	1:B:522:LEU:HA	1.60	0.83
1:C:84:LEU:HD12	1:E:319:PRO:HD3	137.12	0.83
1:J:300:GLY:HA2	1:J:301:GLN:HB3	1.61	0.83
1:J:498:GLY:O	1:J:502:SER:CB	2.24	0.83
1:Q:133:CYS:HA	1:Q:522:LEU:HA	1.60	0.83
1:3:300:GLY:HA2	1:3:301:GLN:HB3	1.61	0.83
1:L:300:GLY:HA2	1:L:301:GLN:HB3	1.61	0.83
1:R:498:GLY:O	1:R:502:SER:CB	2.24	0.83
1:X:133:CYS:HA	1:X:522:LEU:HA	1.60	0.83
1:3:498:GLY:O	1:3:502:SER:CB	2.24	0.83
1:5:498:GLY:O	1:5:502:SER:CB	2.24	0.83
1:A:37:SER:HG	1:E:257:ARG:HG2	1.02	0.83
1:C:93:GLY:O	1:C:96:THR:CG2	2.26	0.83
1:E:93:GLY:O	1:E:96:THR:CG2	2.26	0.83
1:K:35:GLY:O	1:L:257:ARG:NH1	2.11	0.83
1:M:300:GLY:HA2	1:M:301:GLN:HB3	1.61	0.83
1:N:300:GLY:HA2	1:N:301:GLN:HB3	1.61	0.83
1:X:35:GLY:O	1:Y:257:ARG:NH1	2.11	0.83
1:Y:93:GLY:O	1:Y:96:THR:CG2	2.26	0.83
1:Z:93:GLY:O	1:Z:96:THR:CG2	2.26	0.83
1:Z:257:ARG:NH1	1:O:35:GLY:O	2.11	0.83
1:O:133:CYS:HA	1:O:522:LEU:HA	1.60	0.83
1:D:300:GLY:HA2	1:D:301:GLN:HB3	1.61	0.83
1:C:257:ARG:HG2	1:D:37:SER:HG	1.03	0.83
1:G:35:GLY:O	1:W:257:ARG:NH1	2.11	0.83
1:H:319:PRO:HD3	1:O:84:LEU:HD12	211.41	0.83
1:H:93:GLY:O	1:H:96:THR:CG2	2.26	0.83
1:P:300:GLY:HA2	1:P:301:GLN:HB3	1.61	0.83
1:T:300:GLY:HA2	1:T:301:GLN:HB3	1.61	0.83
1:T:84:LEU:HD12	1:V:319:PRO:HD3	99.78	0.83
1:V:84:LEU:HD12	1:X:319:PRO:HD3	1.60	0.83
1:O:319:PRO:HD3	1:7:84:LEU:HD12	1.59	0.83
1:2:133:CYS:HA	1:2:522:LEU:HA	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:300:GLY:HA2	1:4:301:GLN:HB3	1.61	0.83
1:B:300:GLY:HA2	1:B:301:GLN:HB3	1.61	0.83
1:E:257:ARG:HG2	1:Q:37:SER:HG	89.82	0.83
1:F:93:GLY:O	1:F:96:THR:CG2	2.26	0.83
1:G:319:PRO:HD3	1:I:84:LEU:HD12	1.60	0.83
1:I:300:GLY:HA2	1:I:301:GLN:HB3	1.61	0.83
1:K:319:PRO:HD3	1:L:84:LEU:HD12	86.60	0.83
1:M:335:TRP:CD1	1:M:336:PRO:HD2	2.14	0.83
1:O:93:GLY:O	1:O:96:THR:CG2	2.26	0.83
1:R:84:LEU:HD12	1:U:319:PRO:HD3	1.60	0.83
1:Y:84:LEU:HD12	1:6:319:PRO:HD3	187.14	0.83
1:I:37:SER:HG	1:6:257:ARG:HG2	100.80	0.82
1:6:335:TRP:CD1	1:6:336:PRO:HD2	2.14	0.82
1:B:257:ARG:HG2	1:C:37:SER:HG	1.01	0.82
1:D:335:TRP:CD1	1:D:336:PRO:HD2	2.14	0.82
1:E:335:TRP:CD1	1:E:336:PRO:HD2	2.14	0.82
1:F:133:CYS:HA	1:F:522:LEU:HA	1.60	0.82
1:G:84:LEU:HD12	1:O:319:PRO:HD3	210.95	0.82
1:H:257:ARG:NH1	1:Z:35:GLY:O	2.11	0.82
1:H:335:TRP:CD1	1:H:336:PRO:HD2	2.14	0.82
1:K:300:GLY:HA2	1:K:301:GLN:HB3	1.61	0.82
1:L:257:ARG:NH1	1:R:35:GLY:O	156.44	0.82
1:L:35:GLY:O	1:1:257:ARG:NH1	2.11	0.82
1:S:37:SER:HG	1:3:257:ARG:HG2	1.02	0.82
1:T:35:GLY:O	1:U:257:ARG:NH1	2.11	0.82
1:U:335:TRP:CD1	1:U:336:PRO:HD2	2.14	0.82
1:V:35:GLY:O	1:W:257:ARG:NH1	18.91	0.82
1:V:133:CYS:HA	1:V:522:LEU:HA	1.60	0.82
1:S:35:GLY:O	1:3:257:ARG:NH1	2.11	0.82
1:I:35:GLY:O	1:6:257:ARG:NH1	103.02	0.82
1:7:133:CYS:HA	1:7:522:LEU:HA	1.60	0.82
1:E:257:ARG:NH1	1:Q:35:GLY:O	93.24	0.82
1:K:335:TRP:CD1	1:K:336:PRO:HD2	2.14	0.82
1:K:84:LEU:HD12	1:M:319:PRO:HD3	126.94	0.82
1:M:93:GLY:O	1:M:96:THR:CG2	2.26	0.82
1:N:335:TRP:CD1	1:N:336:PRO:HD2	2.14	0.82
1:O:335:TRP:CD1	1:O:336:PRO:HD2	2.14	0.82
1:P:335:TRP:CD1	1:P:336:PRO:HD2	2.14	0.82
1:P:93:GLY:O	1:P:96:THR:CG2	2.26	0.82
1:F:84:LEU:HD12	1:Q:319:PRO:HD3	1.60	0.82
1:S:300:GLY:HA2	1:S:301:GLN:HB3	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:257:ARG:NH1	1:Y:35:GLY:O	18.91	0.82
1:H:84:LEU:HD12	1:Y:319:PRO:HD3	1.59	0.82
1:3:335:TRP:CD1	1:3:336:PRO:HD2	2.14	0.82
1:G:335:TRP:CD1	1:G:336:PRO:HD2	2.14	0.82
1:H:300:GLY:HA2	1:H:301:GLN:HB3	1.61	0.82
1:I:35:GLY:O	1:J:257:ARG:NH1	2.11	0.82
1:N:319:PRO:HD3	1:O:84:LEU:HD12	61.95	0.82
1:R:133:CYS:HA	1:R:522:LEU:HA	1.60	0.82
1:Q:35:GLY:O	1:S:257:ARG:NH1	2.10	0.82
1:S:133:CYS:HA	1:S:522:LEU:HA	1.60	0.82
1:T:37:SER:HG	1:U:257:ARG:HG2	1.00	0.82
1:X:84:LEU:HD12	1:Z:319:PRO:HD3	99.78	0.82
1:4:335:TRP:CD1	1:4:336:PRO:HD2	2.14	0.82
1:A:300:GLY:HA2	1:A:301:GLN:HB3	1.61	0.82
1:D:93:GLY:O	1:D:96:THR:CG2	2.26	0.82
1:F:109:TRP:CZ3	1:F:485:LYS:HB3	2.15	0.82
1:J:335:TRP:CD1	1:J:336:PRO:HD2	2.14	0.82
1:J:35:GLY:O	1:K:257:ARG:NH1	87.66	0.82
1:R:335:TRP:CD1	1:R:336:PRO:HD2	2.14	0.82
1:O:35:GLY:O	1:V:257:ARG:NH1	111.72	0.82
1:Y:335:TRP:CD1	1:Y:336:PRO:HD2	2.14	0.82
1:T:35:GLY:O	1:5:257:ARG:NH1	103.03	0.82
1:C:109:TRP:CZ3	1:C:485:LYS:HB3	2.15	0.82
1:C:257:ARG:NH1	1:D:35:GLY:O	2.11	0.82
1:H:133:CYS:HA	1:H:522:LEU:HA	1.60	0.82
1:J:257:ARG:NH1	1:Z:35:GLY:O	18.52	0.82
1:L:335:TRP:CD1	1:L:336:PRO:HD2	2.14	0.82
1:R:109:TRP:CZ3	1:R:485:LYS:HB3	2.15	0.82
1:S:335:TRP:CD1	1:S:336:PRO:HD2	2.14	0.82
1:X:300:GLY:HA2	1:X:301:GLN:HB3	1.61	0.82
1:Y:109:TRP:CZ3	1:Y:485:LYS:HB3	2.15	0.82
1:Z:335:TRP:CD1	1:Z:336:PRO:HD2	2.14	0.82
1:I:84:LEU:HD12	1:2:319:PRO:HD3	187.14	0.82
1:2:109:TRP:CZ3	1:2:485:LYS:HB3	2.15	0.82
1:B:335:TRP:CD1	1:B:336:PRO:HD2	2.14	0.82
1:F:35:GLY:O	1:G:257:ARG:NH1	2.11	0.82
1:O:109:TRP:CZ3	1:O:485:LYS:HB3	2.15	0.82
1:U:300:GLY:HA2	1:U:301:GLN:HB3	1.61	0.82
1:N:35:GLY:O	1:Z:257:ARG:NH1	162.81	0.82
1:Z:300:GLY:HA2	1:Z:301:GLN:HB3	1.61	0.82
1:Z:109:TRP:CZ3	1:Z:485:LYS:HB3	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:319:PRO:HD3	1:Z:84:LEU:HD12	61.95	0.82
1:6:109:TRP:CZ3	1:6:485:LYS:HB3	2.15	0.82
1:6:300:GLY:HA2	1:6:301:GLN:HB3	1.61	0.82
1:A:335:TRP:CD1	1:A:336:PRO:HD2	2.14	0.82
1:B:109:TRP:CZ3	1:B:485:LYS:HB3	2.15	0.82
1:B:257:ARG:NH1	1:4:35:GLY:O	165.74	0.82
1:E:109:TRP:CZ3	1:E:485:LYS:HB3	2.15	0.82
1:F:319:PRO:HD3	1:T:84:LEU:HD12	168.71	0.82
1:R:319:PRO:HD3	1:S:84:LEU:HD12	1.60	0.82
1:F:257:ARG:NH1	1:R:35:GLY:O	2.10	0.82
1:S:109:TRP:CZ3	1:S:485:LYS:HB3	2.15	0.82
1:T:319:PRO:HD3	1:3:84:LEU:HD12	1.60	0.82
1:U:109:TRP:CZ3	1:U:485:LYS:HB3	2.15	0.82
1:P:257:ARG:NH1	1:U:35:GLY:O	103.85	0.82
1:O:257:ARG:NH1	1:3:35:GLY:O	2.11	0.82
1:3:93:GLY:O	1:3:96:THR:CG2	2.26	0.82
1:5:300:GLY:HA2	1:5:301:GLN:HB3	1.61	0.82
1:A:109:TRP:CZ3	1:A:485:LYS:HB3	2.15	0.82
1:E:84:LEU:HD12	1:F:319:PRO:HD3	1.60	0.82
1:F:37:SER:HG	1:G:257:ARG:CG	1.78	0.82
1:G:109:TRP:CZ3	1:G:485:LYS:HB3	2.15	0.82
1:B:319:PRO:HD3	1:J:84:LEU:HD12	1.60	0.82
1:I:319:PRO:HD3	1:J:84:LEU:HD12	86.60	0.82
1:L:319:PRO:HD3	1:M:84:LEU:HD12	109.14	0.82
1:N:93:GLY:O	1:N:96:THR:CG2	2.26	0.82
1:Q:335:TRP:CD1	1:Q:336:PRO:HD2	2.14	0.82
1:T:335:TRP:CD1	1:T:336:PRO:HD2	2.14	0.82
1:X:335:TRP:CD1	1:X:336:PRO:HD2	2.14	0.82
1:W:319:PRO:HD3	1:Z:84:LEU:HD12	72.45	0.82
1:0:335:TRP:CD1	1:0:336:PRO:HD2	2.14	0.82
1:A:257:ARG:CG	1:E:37:SER:CA	23.19	0.82
1:A:257:ARG:HG2	1:E:37:SER:HG	25.54	0.82
1:G:319:PRO:HD3	1:H:84:LEU:HD12	61.95	0.82
1:I:335:TRP:CD1	1:I:336:PRO:HD2	2.14	0.82
1:J:319:PRO:HD3	1:2:84:LEU:HD12	127.16	0.82
1:J:93:GLY:O	1:J:96:THR:CG2	2.26	0.82
1:J:319:PRO:HD3	1:L:84:LEU:HD12	1.60	0.82
1:N:319:PRO:HD3	1:P:84:LEU:HD12	1.59	0.82
1:O:300:GLY:HA2	1:O:301:GLN:HB3	1.61	0.82
1:O:498:GLY:O	1:O:502:SER:CB	2.24	0.82
1:R:93:GLY:O	1:R:96:THR:CG2	2.26	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:109:TRP:CZ3	1:V:485:LYS:HB3	2.15	0.82
1:W:319:PRO:HD3	1:Y:84:LEU:HD12	1.60	0.82
1:F:84:LEU:HD12	1:3:319:PRO:HD3	175.97	0.82
1:F:335:TRP:CD1	1:F:336:PRO:HD2	2.14	0.82
1:G:362:SER:HB2	1:G:369:LEU:HG	1.62	0.82
1:H:109:TRP:CZ3	1:H:485:LYS:HB3	2.15	0.82
1:I:362:SER:HB2	1:I:369:LEU:HG	1.62	0.82
1:M:109:TRP:CZ3	1:M:485:LYS:HB3	2.15	0.82
1:D:319:PRO:HD3	1:N:84:LEU:HD12	1.59	0.82
1:O:319:PRO:HD3	1:P:84:LEU:HD12	86.59	0.82
1:P:362:SER:HB2	1:P:369:LEU:HG	1.62	0.82
1:P:109:TRP:CZ3	1:P:485:LYS:HB3	2.15	0.82
1:Q:362:SER:HB2	1:Q:369:LEU:HG	1.62	0.82
1:Q:319:PRO:HD3	1:R:84:LEU:HD12	61.95	0.82
1:T:362:SER:HB2	1:T:369:LEU:HG	1.62	0.82
1:V:362:SER:HB2	1:V:369:LEU:HG	1.62	0.82
1:Y:362:SER:HB2	1:Y:369:LEU:HG	1.62	0.82
1:A:133:CYS:HA	1:A:522:LEU:HA	1.60	0.81
1:D:362:SER:HB2	1:D:369:LEU:HG	1.62	0.81
1:F:498:GLY:O	1:F:502:SER:CB	2.24	0.81
1:K:37:SER:HG	1:S:257:ARG:HG2	160.56	0.81
1:N:498:GLY:O	1:N:502:SER:CB	2.24	0.81
1:R:362:SER:HB2	1:R:369:LEU:HG	1.62	0.81
1:F:257:ARG:CG	1:R:37:SER:CA	2.58	0.81
1:X:109:TRP:CZ3	1:X:485:LYS:HB3	2.15	0.81
1:O:300:GLY:HA2	1:O:301:GLN:HB3	1.61	0.81
1:A:319:PRO:HD3	1:5:84:LEU:HD12	176.12	0.81
1:7:335:TRP:CD1	1:7:336:PRO:HD2	2.14	0.81
1:O:257:ARG:CG	1:Y:37:SER:CA	162.13	0.81
1:Q:37:SER:CA	1:S:257:ARG:CG	2.58	0.81
1:Q:93:GLY:O	1:Q:96:THR:CG2	2.26	0.81
1:D:37:SER:HG	1:R:257:ARG:HG2	114.86	0.81
1:Q:84:LEU:HD12	1:S:319:PRO:HD3	104.42	0.81
1:S:362:SER:HB2	1:S:369:LEU:HG	1.62	0.81
1:G:37:SER:CA	1:W:257:ARG:CG	2.59	0.81
1:W:335:TRP:CD1	1:W:336:PRO:HD2	2.14	0.81
1:X:37:SER:HG	1:Y:257:ARG:HG2	1.03	0.81
1:5:362:SER:HB2	1:5:369:LEU:HG	1.62	0.81
1:A:498:GLY:O	1:A:502:SER:CB	2.24	0.81
1:B:257:ARG:CG	1:C:37:SER:CA	2.58	0.81
1:C:300:GLY:HA2	1:C:301:GLN:HB3	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:84:LEU:HD12	1:P:319:PRO:HD3	1.59	0.81
1:K:109:TRP:CZ3	1:K:485:LYS:HB3	2.15	0.81
1:K:93:GLY:O	1:K:96:THR:CG2	2.26	0.81
1:N:37:SER:CA	1:Z:257:ARG:CG	162.13	0.81
1:O:133:CYS:HA	1:O:522:LEU:HA	1.60	0.81
1:Q:300:GLY:HA2	1:Q:301:GLN:HB3	1.61	0.81
1:Q:498:GLY:O	1:Q:502:SER:CB	2.24	0.81
1:R:257:ARG:NH1	1:V:35:GLY:O	2.11	0.81
1:T:109:TRP:CZ3	1:T:485:LYS:HB3	2.15	0.81
1:V:335:TRP:CD1	1:V:336:PRO:HD2	2.14	0.81
1:V:37:SER:CA	1:W:257:ARG:CG	23.21	0.81
1:W:109:TRP:CZ3	1:W:485:LYS:HB3	2.15	0.81
1:W:84:LEU:HD12	1:X:319:PRO:HD3	61.95	0.81
1:Z:362:SER:HB2	1:Z:369:LEU:HG	1.62	0.81
1:0:109:TRP:CZ3	1:0:485:LYS:HB3	2.15	0.81
1:1:300:GLY:HA2	1:1:301:GLN:HB3	1.61	0.81
1:2:335:TRP:CD1	1:2:336:PRO:HD2	2.14	0.81
1:3:133:CYS:HA	1:3:522:LEU:HA	1.60	0.81
1:7:362:SER:HB2	1:7:369:LEU:HG	1.63	0.81
1:I:109:TRP:CZ3	1:I:485:LYS:HB3	2.15	0.81
1:N:362:SER:HB2	1:N:369:LEU:HG	1.62	0.81
1:Q:109:TRP:CZ3	1:Q:485:LYS:HB3	2.15	0.81
1:W:498:GLY:O	1:W:502:SER:CB	2.24	0.81
1:L:37:SER:CA	1:1:257:ARG:CG	2.58	0.81
1:4:109:TRP:CZ3	1:4:485:LYS:HB3	2.15	0.81
1:5:335:TRP:CD1	1:5:336:PRO:HD2	2.14	0.81
1:Y:257:ARG:NH1	1:7:35:GLY:O	111.64	0.81
1:B:498:GLY:O	1:B:502:SER:CB	2.24	0.81
1:C:498:GLY:O	1:C:502:SER:CB	2.24	0.81
1:D:109:TRP:CZ3	1:D:485:LYS:HB3	2.15	0.81
1:E:300:GLY:HA2	1:E:301:GLN:HB3	1.61	0.81
1:D:257:ARG:CG	1:E:37:SER:CA	2.58	0.81
1:H:319:PRO:HD3	1:W:84:LEU:HD12	1.60	0.81
1:L:362:SER:HB2	1:L:369:LEU:HG	1.62	0.81
1:P:257:ARG:CG	1:U:37:SER:CA	104.30	0.81
1:V:300:GLY:HA2	1:V:301:GLN:HB3	1.61	0.81
1:W:362:SER:HB2	1:W:369:LEU:HG	1.62	0.81
1:X:257:ARG:CG	1:Y:37:SER:CA	23.20	0.81
1:A:362:SER:HB2	1:A:369:LEU:HG	1.62	0.81
1:B:362:SER:HB2	1:B:369:LEU:HG	1.62	0.81
1:C:335:TRP:CD1	1:C:336:PRO:HD2	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:37:SER:CA	1:T:257:ARG:CG	163.01	0.81
1:G:300:GLY:HA2	1:G:301:GLN:HB3	1.61	0.81
1:H:257:ARG:CG	1:Z:37:SER:CA	2.58	0.81
1:J:362:SER:HB2	1:J:369:LEU:HG	1.62	0.81
1:J:109:TRP:CZ3	1:J:485:LYS:HB3	2.15	0.81
1:O:362:SER:HB2	1:O:369:LEU:HG	1.62	0.81
1:P:37:SER:CA	1:Q:257:ARG:CG	2.59	0.81
1:1:498:GLY:O	1:1:502:SER:CB	2.24	0.81
1:3:109:TRP:CZ3	1:3:485:LYS:HB3	2.15	0.81
1:W:37:SER:CA	1:7:257:ARG:CG	146.58	0.81
1:7:300:GLY:HA2	1:7:301:GLN:HB3	1.61	0.81
1:F:362:SER:HB2	1:F:369:LEU:HG	1.62	0.81
1:L:109:TRP:CZ3	1:L:485:LYS:HB3	2.15	0.81
1:N:257:ARG:NH1	1:S:35:GLY:O	103.01	0.81
1:O:37:SER:HG	1:V:257:ARG:CG	113.24	0.81
1:0:362:SER:HB2	1:0:369:LEU:HG	1.62	0.81
1:I:257:ARG:CG	1:1:37:SER:CA	111.96	0.81
1:E:498:GLY:O	1:E:502:SER:CB	2.24	0.81
1:G:257:ARG:CG	1:N:37:SER:CA	146.58	0.81
1:H:37:SER:CA	1:I:257:ARG:CG	2.59	0.81
1:N:109:TRP:CZ3	1:N:485:LYS:HB3	2.15	0.81
1:W:93:GLY:O	1:W:96:THR:CG2	2.26	0.81
1:X:93:GLY:O	1:X:96:THR:CG2	2.26	0.81
1:2:362:SER:HB2	1:2:369:LEU:HG	1.62	0.81
1:D:257:ARG:CG	1:F:37:SER:CA	84.93	0.81
1:K:498:GLY:O	1:K:502:SER:CB	2.24	0.81
1:L:498:GLY:O	1:L:502:SER:CB	2.24	0.81
1:M:498:GLY:O	1:M:502:SER:CB	2.24	0.81
1:T:96:THR:HG1	1:T:342:TYR:HH	1.09	0.81
1:V:257:ARG:CG	1:W:37:SER:CA	2.59	0.81
1:T:257:ARG:CG	1:X:37:SER:CA	104.30	0.81
1:5:109:TRP:CZ3	1:5:485:LYS:HB3	2.15	0.81
1:X:257:ARG:CG	1:5:37:SER:CA	2.58	0.81
1:H:498:GLY:O	1:H:502:SER:CB	2.24	0.81
1:I:257:ARG:HG2	1:1:37:SER:HG	114.83	0.81
1:X:362:SER:HB2	1:X:369:LEU:HG	1.62	0.81
1:M:257:ARG:CG	1:2:37:SER:CA	2.59	0.81
1:B:100:SER:HA	1:5:284:ARG:HH22	227.76	0.81
1:B:93:GLY:O	1:B:96:THR:CG2	2.26	0.81
1:M:362:SER:HB2	1:M:369:LEU:HG	1.62	0.81
1:I:37:SER:CA	1:6:257:ARG:CG	100.39	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:257:ARG:CG	1:6:37:SER:CA	2.58	0.80
1:7:109:TRP:CZ3	1:7:485:LYS:HB3	2.15	0.80
1:B:36:HIS:C	1:C:257:ARG:CD	20.98	0.80
1:H:362:SER:HB2	1:H:369:LEU:HG	1.62	0.80
1:L:257:ARG:CG	1:R:37:SER:CA	151.95	0.80
1:L:93:GLY:O	1:L:96:THR:CG2	2.26	0.80
1:X:498:GLY:O	1:X:502:SER:CB	2.24	0.80
1:1:335:TRP:CD1	1:1:336:PRO:HD2	2.14	0.80
1:1:109:TRP:CZ3	1:1:485:LYS:HB3	2.15	0.80
1:S:37:SER:CA	1:3:257:ARG:CG	2.59	0.80
1:3:362:SER:HB2	1:3:369:LEU:HG	1.62	0.80
1:H:257:ARG:CG	1:L:37:SER:CA	104.30	0.80
1:I:93:GLY:O	1:I:96:THR:CG2	2.26	0.80
1:K:37:SER:CA	1:L:257:ARG:CG	2.59	0.80
1:M:37:SER:CA	1:N:257:ARG:CG	2.59	0.80
1:T:37:SER:CA	1:U:257:ARG:CG	2.59	0.80
1:U:37:SER:CA	1:4:257:ARG:CG	2.58	0.80
1:A:137:LYS:HD3	1:A:273:PRO:HG3	1.64	0.80
1:B:341:HIS:NE2	1:5:406:ASP:OD1	219.19	0.80
1:L:137:LYS:HD3	1:L:273:PRO:HG3	1.64	0.80
1:O:37:SER:CA	1:P:257:ARG:CG	2.58	0.80
1:U:137:LYS:HD3	1:U:273:PRO:HG3	1.64	0.80
1:U:362:SER:HB2	1:U:369:LEU:HG	1.62	0.80
1:R:257:ARG:CG	1:V:37:SER:CA	2.59	0.80
1:Y:498:GLY:O	1:Y:502:SER:CB	2.24	0.80
1:6:498:GLY:O	1:6:502:SER:CB	2.24	0.80
1:Y:257:ARG:CG	1:7:37:SER:CA	111.96	0.80
1:A:257:ARG:CG	1:B:37:SER:CA	2.58	0.80
1:D:37:SER:CA	1:R:257:ARG:CG	111.96	0.80
1:G:137:LYS:HD3	1:G:273:PRO:HG3	1.64	0.80
1:G:37:SER:CA	1:M:257:ARG:CG	158.23	0.80
1:I:137:LYS:HD3	1:I:273:PRO:HG3	1.64	0.80
1:T:93:GLY:O	1:T:96:THR:CG2	2.26	0.80
1:W:300:GLY:HA2	1:W:301:GLN:HB3	1.61	0.80
1:J:257:ARG:CG	1:Z:37:SER:CA	23.99	0.80
1:Z:498:GLY:O	1:Z:502:SER:CB	2.24	0.80
1:L:37:SER:HG	1:1:257:ARG:HG2	0.99	0.80
1:P:498:GLY:O	1:P:502:SER:CB	2.24	0.80
1:T:137:LYS:HD3	1:T:273:PRO:HG3	1.64	0.80
1:O:257:ARG:CG	1:3:37:SER:CA	2.59	0.80
1:B:137:LYS:HD3	1:B:273:PRO:HG3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:137:LYS:HD3	1:F:273:PRO:HG3	1.64	0.80
1:J:37:SER:CA	1:K:257:ARG:CG	80.34	0.80
1:Z:257:ARG:CG	1:O:37:SER:CA	2.59	0.80
1:J:37:SER:CA	1:O:257:ARG:CG	2.59	0.80
1:5:137:LYS:HD3	1:5:273:PRO:HG3	1.64	0.80
1:T:37:SER:CA	1:5:257:ARG:CG	100.94	0.80
1:A:93:GLY:O	1:A:96:THR:CG2	2.26	0.80
1:C:257:ARG:CG	1:D:37:SER:CA	2.59	0.80
1:E:257:ARG:CG	1:Q:37:SER:CA	88.40	0.80
1:G:93:GLY:O	1:G:96:THR:CG2	2.26	0.80
1:K:37:SER:CA	1:S:257:ARG:CG	159.33	0.80
1:S:93:GLY:O	1:S:96:THR:CG2	2.26	0.80
1:U:498:GLY:O	1:U:502:SER:CB	2.24	0.80
1:U:93:GLY:O	1:U:96:THR:CG2	2.26	0.80
1:X:37:SER:CA	1:Y:257:ARG:CG	2.59	0.80
1:4:362:SER:HB2	1:4:369:LEU:HG	1.62	0.80
1:6:137:LYS:HD3	1:6:273:PRO:HG3	1.64	0.80
1:7:137:LYS:HD3	1:7:273:PRO:HG3	1.64	0.80
1:D:137:LYS:HD3	1:D:273:PRO:HG3	1.64	0.80
1:H:137:LYS:HD3	1:H:273:PRO:HG3	1.64	0.80
1:J:137:LYS:HD3	1:J:273:PRO:HG3	1.64	0.80
1:M:137:LYS:HD3	1:M:273:PRO:HG3	1.64	0.80
1:O:137:LYS:HD3	1:O:273:PRO:HG3	1.64	0.80
1:Q:137:LYS:HD3	1:Q:273:PRO:HG3	1.64	0.80
1:Q:37:SER:HG	1:S:257:ARG:CG	1.81	0.80
1:R:137:LYS:HD3	1:R:273:PRO:HG3	1.64	0.80
1:X:137:LYS:HD3	1:X:273:PRO:HG3	1.64	0.80
1:F:257:ARG:CG	1:H:37:SER:CA	92.51	0.80
1:F:300:GLY:HA2	1:F:301:GLN:HB3	1.61	0.80
1:I:37:SER:CA	1:J:257:ARG:CG	2.59	0.80
1:K:362:SER:HB2	1:K:369:LEU:HG	1.62	0.80
1:N:137:LYS:HD3	1:N:273:PRO:HG3	1.64	0.80
1:V:137:LYS:HD3	1:V:273:PRO:HG3	1.64	0.80
1:I:137:LYS:HD3	1:I:273:PRO:HG3	1.64	0.80
1:A:35:GLY:O	1:E:257:ARG:NH1	2.13	0.80
1:A:36:HIS:HE1	1:E:33:GLY:CA	1.95	0.80
1:B:84:LEU:HD12	1:5:319:PRO:HD3	242.71	0.80
1:W:137:LYS:HD3	1:W:273:PRO:HG3	1.64	0.80
1:W:96:THR:OG1	1:W:342:TYR:OH	1.82	0.80
1:Y:137:LYS:HD3	1:Y:273:PRO:HG3	1.64	0.80
1:M:37:SER:CA	1:2:257:ARG:CG	23.20	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:300:GLY:HA2	1:2:301:GLN:HB3	1.61	0.79
1:C:137:LYS:HD3	1:C:273:PRO:HG3	1.64	0.79
1:E:362:SER:HB2	1:E:369:LEU:HG	1.62	0.79
1:F:37:SER:CA	1:G:257:ARG:CG	2.59	0.79
1:C:37:SER:HG	1:T:257:ARG:HG2	165.26	0.79
1:O:37:SER:CA	1:V:257:ARG:CG	111.96	0.79
1:Z:137:LYS:HD3	1:Z:273:PRO:HG3	1.64	0.79
1:2:137:LYS:HD3	1:2:273:PRO:HG3	1.64	0.79
1:4:244:PHE:CZ	1:4:246:PRO:HB3	2.18	0.79
1:D:244:PHE:CZ	1:D:246:PRO:HB3	2.18	0.79
1:K:244:PHE:CZ	1:K:246:PRO:HB3	2.18	0.79
1:N:244:PHE:CZ	1:N:246:PRO:HB3	2.18	0.79
1:Q:244:PHE:CZ	1:Q:246:PRO:HB3	2.18	0.79
1:T:37:SER:OG	1:5:257:ARG:N	100.15	0.79
1:2:93:GLY:O	1:2:96:THR:CG2	2.26	0.79
1:6:362:SER:HB2	1:6:369:LEU:HG	1.62	0.79
1:C:244:PHE:CZ	1:C:246:PRO:HB3	2.18	0.79
1:E:244:PHE:CZ	1:E:246:PRO:HB3	2.18	0.79
1:M:244:PHE:CZ	1:M:246:PRO:HB3	2.18	0.79
1:P:244:PHE:CZ	1:P:246:PRO:HB3	2.18	0.79
1:S:137:LYS:HD3	1:S:273:PRO:HG3	1.64	0.79
1:5:93:GLY:O	1:5:96:THR:CG2	2.26	0.79
1:F:244:PHE:CZ	1:F:246:PRO:HB3	2.18	0.79
1:H:244:PHE:CZ	1:H:246:PRO:HB3	2.18	0.79
1:I:498:GLY:O	1:I:502:SER:CB	2.24	0.79
1:N:257:ARG:CG	1:S:37:SER:CA	100.92	0.79
1:O:244:PHE:CZ	1:O:246:PRO:HB3	2.18	0.79
1:P:137:LYS:HD3	1:P:273:PRO:HG3	1.64	0.79
1:T:37:SER:N	1:5:257:ARG:HG3	98.88	0.79
1:V:93:GLY:O	1:V:96:THR:CG2	2.26	0.79
1:X:244:PHE:CZ	1:X:246:PRO:HB3	2.18	0.79
1:4:137:LYS:HD3	1:4:273:PRO:HG3	1.64	0.79
1:C:362:SER:HB2	1:C:369:LEU:HG	1.62	0.79
1:G:244:PHE:CZ	1:G:246:PRO:HB3	2.18	0.79
1:L:244:PHE:CZ	1:L:246:PRO:HB3	2.18	0.79
1:A:37:SER:CA	1:U:257:ARG:CG	143.64	0.79
1:A:36:HIS:CE1	1:U:34:VAL:HG23	144.77	0.79
1:Z:244:PHE:CZ	1:Z:246:PRO:HB3	2.18	0.79
1:0:244:PHE:CZ	1:0:246:PRO:HB3	2.18	0.79
1:A:36:HIS:CE1	1:E:33:GLY:N	2.51	0.79
1:K:137:LYS:HD3	1:K:273:PRO:HG3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:37:SER:N	1:Z:257:ARG:HG3	161.44	0.79
1:Q:37:SER:N	1:S:257:ARG:HG3	1.98	0.79
1:S:498:GLY:O	1:S:502:SER:CB	2.24	0.79
1:3:137:LYS:HD3	1:3:273:PRO:HG3	1.64	0.79
1:E:137:LYS:HD3	1:E:273:PRO:HG3	1.64	0.79
1:F:257:ARG:HG3	1:R:37:SER:N	1.98	0.79
1:R:244:PHE:CZ	1:R:246:PRO:HB3	2.18	0.79
1:S:244:PHE:CZ	1:S:246:PRO:HB3	2.18	0.79
1:T:498:GLY:O	1:T:502:SER:CB	2.24	0.79
1:U:244:PHE:CZ	1:U:246:PRO:HB3	2.18	0.79
1:O:257:ARG:HG3	1:Y:37:SER:N	161.45	0.79
1:A:257:ARG:N	1:E:37:SER:OG	25.90	0.79
1:T:244:PHE:CZ	1:T:246:PRO:HB3	2.18	0.79
1:Y:244:PHE:CZ	1:Y:246:PRO:HB3	2.18	0.79
1:1:362:SER:HB2	1:1:369:LEU:HG	1.62	0.79
1:7:244:PHE:CZ	1:7:246:PRO:HB3	2.18	0.79
1:A:244:PHE:CZ	1:A:246:PRO:HB3	2.18	0.79
1:J:244:PHE:CZ	1:J:246:PRO:HB3	2.18	0.79
1:I:37:SER:N	1:J:257:ARG:HG3	1.98	0.79
1:I:37:SER:OG	1:J:257:ARG:N	2.16	0.79
1:V:244:PHE:CZ	1:V:246:PRO:HB3	2.18	0.79
1:X:257:ARG:HG3	1:Y:37:SER:N	21.59	0.79
1:X:257:ARG:N	1:Y:37:SER:OG	25.91	0.79
1:H:257:ARG:N	1:Z:37:SER:OG	2.16	0.79
1:O:257:ARG:N	1:3:37:SER:OG	2.16	0.79
1:4:93:GLY:O	1:4:96:THR:CG2	2.26	0.79
1:I:244:PHE:CZ	1:I:246:PRO:HB3	2.18	0.79
1:H:257:ARG:HG3	1:Z:37:SER:N	1.98	0.79
1:X:34:VAL:HG23	1:5:36:HIS:CE1	2.17	0.78
1:7:93:GLY:O	1:7:96:THR:CG2	2.26	0.78
1:A:257:ARG:HG3	1:B:37:SER:N	1.98	0.78
1:F:257:ARG:N	1:R:37:SER:OG	2.16	0.78
1:J:37:SER:OG	1:K:257:ARG:N	78.67	0.78
1:O:37:SER:N	1:P:257:ARG:HG3	1.98	0.78
1:1:244:PHE:CZ	1:1:246:PRO:HB3	2.18	0.78
1:3:244:PHE:CZ	1:3:246:PRO:HB3	2.18	0.78
1:B:257:ARG:N	1:C:37:SER:OG	2.16	0.78
1:A:34:VAL:HG23	1:B:36:HIS:CE1	2.18	0.78
1:A:37:SER:CA	1:E:257:ARG:CG	2.61	0.78
1:A:33:GLY:CA	1:E:36:HIS:HE1	11.89	0.78
1:I:37:SER:N	1:6:257:ARG:HG3	99.04	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:36:HIS:CE1	1:N:34:VAL:HG23	2.18	0.78
1:T:37:SER:N	1:U:257:ARG:HG3	1.98	0.78
1:O:257:ARG:N	1:Y:37:SER:OG	166.41	0.78
1:O:257:ARG:HG3	1:3:37:SER:N	1.98	0.78
1:W:36:HIS:CE1	1:7:34:VAL:HG23	148.46	0.78
1:K:34:VAL:HG23	1:6:36:HIS:CE1	2.18	0.78
1:L:37:SER:OG	1:1:257:ARG:N	2.16	0.78
1:P:37:SER:N	1:Q:257:ARG:HG3	1.99	0.78
1:K:37:SER:N	1:S:257:ARG:HG3	158.40	0.78
1:U:37:SER:OG	1:4:257:ARG:N	2.16	0.78
1:5:244:PHE:CZ	1:5:246:PRO:HB3	2.18	0.78
1:X:257:ARG:N	1:5:37:SER:OG	2.17	0.78
1:7:498:GLY:O	1:7:502:SER:CB	2.24	0.78
1:D:34:VAL:HG23	1:E:36:HIS:CE1	2.18	0.78
1:J:37:SER:OG	1:0:257:ARG:N	2.17	0.78
1:G:257:ARG:HG3	1:N:37:SER:N	147.07	0.78
1:P:36:HIS:CE1	1:Q:34:VAL:HG23	2.19	0.78
1:D:36:HIS:CE1	1:R:34:VAL:HG23	99.30	0.78
1:P:257:ARG:HG3	1:U:37:SER:N	104.25	0.78
1:V:34:VAL:HG23	1:W:36:HIS:CE1	2.19	0.78
1:0:137:LYS:HD3	1:0:273:PRO:HG3	1.64	0.78
1:0:498:GLY:O	1:0:502:SER:CB	2.24	0.78
1:D:498:GLY:O	1:D:502:SER:CB	2.24	0.78
1:L:37:SER:N	1:1:257:ARG:HG3	1.98	0.78
1:W:244:PHE:CZ	1:W:246:PRO:HB3	2.18	0.78
1:X:36:HIS:HE1	1:Y:33:GLY:CA	1.97	0.78
1:Z:33:GLY:CA	1:0:36:HIS:HE1	1.97	0.78
1:U:36:HIS:CE1	1:4:34:VAL:HG23	2.19	0.78
1:D:257:ARG:HG3	1:E:37:SER:N	1.98	0.78
1:G:257:ARG:N	1:N:37:SER:OG	149.36	0.78
1:G:37:SER:N	1:W:257:ARG:HG3	1.98	0.78
1:J:37:SER:N	1:K:257:ARG:HG3	80.72	0.78
1:K:257:ARG:N	1:6:37:SER:OG	2.16	0.78
1:M:36:HIS:CE1	1:2:34:VAL:HG23	9.63	0.78
1:M:37:SER:N	1:N:257:ARG:HG3	1.98	0.78
1:L:257:ARG:HG3	1:R:37:SER:N	150.67	0.78
1:Z:257:ARG:HG3	1:0:37:SER:N	1.99	0.78
1:A:257:ARG:N	1:B:37:SER:OG	2.17	0.78
1:A:84:LEU:HD12	1:B:319:PRO:HD3	86.61	0.78
1:C:36:HIS:CE1	1:T:34:VAL:HG23	152.54	0.78
1:L:257:ARG:N	1:R:37:SER:OG	151.81	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:36:HIS:HE1	1:5:33:GLY:CA	88.23	0.78
1:V:37:SER:N	1:W:257:ARG:HG3	21.59	0.78
1:O:93:GLY:O	1:O:96:THR:CG2	2.26	0.78
1:S:37:SER:OG	1:3:257:ARG:N	2.17	0.78
1:G:36:HIS:HE1	1:W:33:GLY:CA	1.97	0.78
1:G:37:SER:HG	1:M:257:ARG:HG2	160.73	0.78
1:J:34:VAL:HG23	1:Z:36:HIS:CE1	9.58	0.78
1:K:36:HIS:CE1	1:L:34:VAL:HG23	2.19	0.78
1:K:37:SER:OG	1:L:257:ARG:N	2.17	0.78
1:O:36:HIS:CE1	1:P:34:VAL:HG23	2.18	0.78
1:X:37:SER:N	1:Y:257:ARG:HG3	1.99	0.78
1:D:37:SER:N	1:R:257:ARG:HG3	110.31	0.78
1:H:37:SER:OG	1:I:257:ARG:N	2.17	0.78
1:H:36:HIS:CE1	1:I:34:VAL:HG23	2.18	0.78
1:M:37:SER:OG	1:N:257:ARG:N	2.17	0.78
1:T:257:ARG:N	1:X:37:SER:OG	108.87	0.78
1:T:34:VAL:HG23	1:X:36:HIS:CE1	97.67	0.78
1:V:36:HIS:HE1	1:W:33:GLY:CA	11.88	0.78
1:V:498:GLY:O	1:V:502:SER:CB	2.24	0.78
1:B:244:PHE:CZ	1:B:246:PRO:HB3	2.18	0.78
1:B:33:GLY:CA	1:C:36:HIS:HE1	1.97	0.78
1:D:257:ARG:N	1:E:37:SER:OG	2.16	0.78
1:F:257:ARG:HG3	1:H:37:SER:N	92.53	0.78
1:F:36:HIS:CE1	1:G:34:VAL:HG23	2.18	0.78
1:G:498:GLY:O	1:G:502:SER:CB	2.24	0.78
1:I:34:VAL:HG23	1:I:36:HIS:CE1	99.30	0.78
1:J:257:ARG:N	1:Z:37:SER:OG	26.78	0.78
1:P:36:HIS:HE1	1:Q:33:GLY:CA	1.97	0.78
1:G:36:HIS:CE1	1:W:34:VAL:HG23	2.19	0.78
1:2:244:PHE:CZ	1:2:246:PRO:HB3	2.18	0.77
1:6:244:PHE:CZ	1:6:246:PRO:HB3	2.18	0.77
1:D:37:SER:OG	1:R:257:ARG:N	114.59	0.77
1:A:33:GLY:N	1:E:36:HIS:CE1	11.42	0.77
1:F:34:VAL:HG23	1:H:36:HIS:CE1	89.71	0.77
1:H:34:VAL:HG23	1:L:36:HIS:CE1	97.67	0.77
1:O:37:SER:OG	1:P:257:ARG:N	2.16	0.77
1:P:37:SER:OG	1:Q:257:ARG:N	2.17	0.77
1:K:37:SER:OG	1:S:257:ARG:N	161.76	0.77
1:N:33:GLY:CA	1:S:36:HIS:HE1	88.21	0.77
1:O:37:SER:OG	1:V:257:ARG:N	113.32	0.77
1:V:36:HIS:CE1	1:W:34:VAL:HG23	9.63	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:36:HIS:CE1	1:1:34:VAL:HG23	2.19	0.77
1:X:33:GLY:CA	1:5:36:HIS:HE1	1.97	0.77
1:E:34:VAL:HG23	1:Q:36:HIS:CE1	91.64	0.77
1:A:257:ARG:HG3	1:E:37:SER:N	21.58	0.77
1:F:37:SER:OG	1:G:257:ARG:N	2.17	0.77
1:F:37:SER:N	1:G:257:ARG:HG3	1.99	0.77
1:K:36:HIS:CE1	1:S:34:VAL:HG23	150.92	0.77
1:P:33:GLY:CA	1:U:36:HIS:HE1	99.92	0.77
1:O:36:HIS:CE1	1:V:34:VAL:HG23	96.32	0.77
1:W:37:SER:N	1:7:257:ARG:HG3	147.07	0.77
1:T:33:GLY:CA	1:X:36:HIS:HE1	99.92	0.77
1:H:33:GLY:CA	1:Z:36:HIS:HE1	1.97	0.77
1:J:36:HIS:CE1	1:0:34:VAL:HG23	2.18	0.77
1:C:257:ARG:N	1:D:37:SER:OG	2.17	0.77
1:H:36:HIS:HE1	1:I:33:GLY:CA	1.97	0.77
1:H:37:SER:N	1:I:257:ARG:HG3	1.99	0.77
1:I:36:HIS:HE1	1:J:33:GLY:CA	1.97	0.77
1:M:37:SER:N	1:2:257:ARG:HG3	21.59	0.77
1:N:37:SER:OG	1:Z:257:ARG:N	166.41	0.77
1:O:37:SER:N	1:V:257:ARG:HG3	109.71	0.77
1:Q:37:SER:OG	1:S:257:ARG:N	2.16	0.77
1:T:257:ARG:HG3	1:X:37:SER:N	104.25	0.77
1:T:36:HIS:CE1	1:U:34:VAL:HG23	2.19	0.77
1:X:257:ARG:HG3	1:5:37:SER:N	1.98	0.77
1:X:33:GLY:CA	1:Y:36:HIS:HE1	11.88	0.77
1:T:36:HIS:CE1	1:5:33:GLY:N	89.17	0.77
1:W:37:SER:OG	1:7:257:ARG:N	149.37	0.77
1:Y:257:ARG:HG3	1:7:37:SER:N	110.31	0.77
1:A:341:HIS:NE2	1:B:406:ASP:OD1	60.80	0.77
1:A:34:VAL:HG23	1:E:36:HIS:CE1	9.63	0.77
1:A:37:SER:N	1:U:257:ARG:HG3	143.40	0.77
1:C:34:VAL:HG23	1:D:36:HIS:CE1	2.19	0.77
1:D:33:GLY:CA	1:E:36:HIS:HE1	1.98	0.77
1:F:34:VAL:HG23	1:R:36:HIS:CE1	2.19	0.77
1:K:37:SER:N	1:L:257:ARG:HG3	1.99	0.77
1:G:36:HIS:CE1	1:M:34:VAL:HG23	152.17	0.77
1:O:34:VAL:HG23	1:Y:36:HIS:CE1	154.32	0.77
1:E:257:ARG:N	1:Q:37:SER:OG	88.89	0.77
1:X:36:HIS:CE1	1:Y:33:GLY:N	2.53	0.77
1:Z:33:GLY:N	1:0:36:HIS:CE1	2.53	0.77
1:J:37:SER:N	1:0:257:ARG:HG3	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:33:GLY:CA	1:1:36:HIS:HE1	97.68	0.77
1:2:498:GLY:O	1:2:502:SER:CB	2.24	0.77
1:B:34:VAL:HG23	1:C:36:HIS:CE1	2.19	0.77
1:J:36:HIS:CE1	1:K:34:VAL:HG23	85.82	0.77
1:R:257:ARG:HG3	1:V:37:SER:N	1.99	0.77
1:O:33:GLY:N	1:3:36:HIS:CE1	2.53	0.77
1:I:36:HIS:CE1	1:6:34:VAL:HG23	90.32	0.77
1:I:36:HIS:HE1	1:6:33:GLY:CA	88.33	0.77
1:L:33:GLY:N	1:R:36:HIS:CE1	144.31	0.77
1:N:34:VAL:HG23	1:S:36:HIS:CE1	92.45	0.77
1:V:257:ARG:N	1:W:37:SER:OG	2.17	0.77
1:V:257:ARG:HG3	1:W:37:SER:N	1.99	0.77
1:B:34:VAL:HG23	1:4:36:HIS:CE1	154.36	0.77
1:A:36:HIS:CE1	1:E:33:GLY:CA	2.68	0.77
1:F:257:ARG:N	1:H:37:SER:OG	93.10	0.77
1:H:257:ARG:HG2	1:L:37:SER:HG	107.26	0.77
1:H:96:THR:HG1	1:H:342:TYR:HH	1.09	0.77
1:I:36:HIS:CE1	1:J:34:VAL:HG23	2.19	0.77
1:T:36:HIS:HE1	1:U:33:GLY:CA	1.97	0.77
1:C:33:GLY:N	1:D:36:HIS:CE1	2.53	0.77
1:B:257:ARG:HG3	1:C:37:SER:N	1.98	0.77
1:E:257:ARG:HG3	1:Q:37:SER:N	88.57	0.77
1:G:36:HIS:HE1	1:M:33:GLY:CA	150.06	0.77
1:J:36:HIS:CE1	1:K:33:GLY:N	82.50	0.77
1:K:36:HIS:CE1	1:L:33:GLY:N	2.53	0.77
1:G:33:GLY:N	1:N:36:HIS:CE1	147.16	0.77
1:P:257:ARG:N	1:U:37:SER:OG	108.86	0.77
1:P:33:GLY:N	1:U:36:HIS:CE1	98.39	0.77
1:Q:36:HIS:HE1	1:S:33:GLY:CA	1.97	0.77
1:C:37:SER:N	1:T:257:ARG:HG3	161.32	0.77
1:T:36:HIS:CE1	1:5:33:GLY:CA	88.92	0.77
1:R:33:GLY:N	1:V:36:HIS:CE1	2.53	0.77
1:V:36:HIS:CE1	1:W:33:GLY:N	11.42	0.77
1:G:36:HIS:CE1	1:W:33:GLY:N	2.53	0.77
1:Y:257:ARG:N	1:7:37:SER:OG	114.59	0.77
1:Y:33:GLY:N	1:7:36:HIS:CE1	97.71	0.77
1:U:37:SER:N	1:4:257:ARG:HG3	1.98	0.77
1:B:33:GLY:N	1:4:36:HIS:CE1	153.01	0.77
1:4:498:GLY:O	1:4:502:SER:CB	2.24	0.77
1:B:33:GLY:N	1:C:36:HIS:CE1	2.53	0.77
1:C:257:ARG:HG3	1:D:37:SER:N	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:257:ARG:HG3	1:F:37:SER:N	86.25	0.77
1:J:36:HIS:HE1	1:O:33:GLY:CA	1.98	0.77
1:L:36:HIS:HE1	1:1:33:GLY:CA	1.97	0.77
1:M:37:SER:OG	1:2:257:ARG:N	25.91	0.77
1:N:36:HIS:HE1	1:Z:33:GLY:CA	155.47	0.77
1:E:33:GLY:N	1:Q:36:HIS:CE1	88.30	0.77
1:C:37:SER:OG	1:T:257:ARG:N	164.87	0.77
1:A:37:SER:OG	1:U:257:ARG:N	143.22	0.77
1:V:33:GLY:CA	1:W:36:HIS:HE1	1.98	0.77
1:I:257:ARG:N	1:1:37:SER:OG	114.59	0.77
1:M:33:GLY:CA	1:2:36:HIS:HE1	1.97	0.77
1:A:36:HIS:HE1	1:U:33:GLY:CA	142.56	0.77
1:G:36:HIS:CE1	1:M:33:GLY:N	149.32	0.77
1:H:257:ARG:N	1:L:37:SER:OG	108.87	0.77
1:I:36:HIS:CE1	1:J:33:GLY:N	2.53	0.77
1:M:257:ARG:HG3	1:2:37:SER:N	1.98	0.77
1:O:36:HIS:HE1	1:P:33:GLY:CA	1.97	0.77
1:P:34:VAL:HG23	1:U:36:HIS:CE1	97.66	0.77
1:R:257:ARG:N	1:V:37:SER:OG	2.17	0.77
1:V:37:SER:OG	1:W:257:ARG:N	25.92	0.77
1:W:36:HIS:HE1	1:7:33:GLY:CA	149.06	0.77
1:K:257:ARG:HG3	1:6:37:SER:N	1.98	0.76
1:A:33:GLY:CA	1:E:36:HIS:CE1	11.44	0.76
1:B:36:HIS:CE1	1:C:34:VAL:CA	10.56	0.76
1:C:36:HIS:HE1	1:T:33:GLY:CA	149.94	0.76
1:C:33:GLY:CA	1:D:36:HIS:HE1	1.97	0.76
1:G:37:SER:OG	1:M:257:ARG:N	160.42	0.76
1:N:257:ARG:N	1:S:37:SER:OG	100.13	0.76
1:Q:36:HIS:CE1	1:S:34:VAL:HG23	2.19	0.76
1:X:37:SER:OG	1:Y:257:ARG:N	2.17	0.76
1:1:93:GLY:O	1:1:96:THR:CG2	2.26	0.76
1:K:33:GLY:CA	1:6:36:HIS:HE1	1.98	0.76
1:D:33:GLY:N	1:F:36:HIS:CE1	90.40	0.76
1:D:34:VAL:HG23	1:F:36:HIS:CE1	89.55	0.76
1:D:33:GLY:CA	1:F:36:HIS:HE1	92.39	0.76
1:G:37:SER:OG	1:W:257:ARG:N	2.17	0.76
1:K:36:HIS:HE1	1:S:33:GLY:CA	151.55	0.76
1:H:33:GLY:CA	1:L:36:HIS:HE1	99.92	0.76
1:M:33:GLY:N	1:2:36:HIS:CE1	2.53	0.76
1:O:36:HIS:CE1	1:P:33:GLY:N	2.53	0.76
1:S:36:HIS:HE1	1:3:33:GLY:CA	1.97	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:36:HIS:CE1	1:U:33:GLY:N	2.53	0.76
1:U:36:HIS:HE1	1:4:33:GLY:CA	1.98	0.76
1:V:257:ARG:HG2	1:W:37:SER:HG	0.96	0.76
1:Z:257:ARG:N	1:0:37:SER:OG	2.17	0.76
1:H:34:VAL:HG23	1:Z:36:HIS:CE1	2.19	0.76
1:I:257:ARG:HG3	1:1:37:SER:N	110.30	0.76
1:I:36:HIS:CE1	1:6:33:GLY:N	88.96	0.76
1:I:37:SER:OG	1:6:257:ARG:N	100.42	0.76
1:J:33:GLY:N	1:Z:36:HIS:CE1	12.28	0.76
1:L:33:GLY:CA	1:R:36:HIS:HE1	144.55	0.76
1:N:257:ARG:HG3	1:S:37:SER:N	98.85	0.76
1:T:37:SER:OG	1:U:257:ARG:N	2.16	0.76
1:Z:34:VAL:HG23	1:0:36:HIS:CE1	2.19	0.76
1:S:36:HIS:CE1	1:3:33:GLY:N	2.53	0.76
1:W:36:HIS:CE1	1:7:33:GLY:N	147.16	0.76
1:K:36:HIS:HE1	1:L:33:GLY:CA	1.97	0.76
1:M:34:VAL:HG23	1:2:36:HIS:CE1	2.19	0.76
1:N:36:HIS:CE1	1:Z:34:VAL:HG23	154.32	0.76
1:O:34:VAL:HG23	1:3:36:HIS:CE1	2.20	0.76
1:R:34:VAL:HG23	1:V:36:HIS:CE1	2.19	0.76
1:K:36:HIS:CE1	1:S:33:GLY:N	150.56	0.76
1:V:33:GLY:N	1:W:36:HIS:CE1	2.54	0.76
1:X:36:HIS:CE1	1:Y:34:VAL:HG23	2.19	0.76
1:X:34:VAL:HG23	1:Y:36:HIS:CE1	9.63	0.76
1:J:33:GLY:CA	1:Z:36:HIS:HE1	12.74	0.76
1:S:36:HIS:CE1	1:3:34:VAL:HG23	2.18	0.76
1:Y:33:GLY:CA	1:7:36:HIS:HE1	97.69	0.76
1:B:36:HIS:HE1	1:C:33:GLY:CA	11.87	0.76
1:F:33:GLY:N	1:H:36:HIS:CE1	88.15	0.76
1:G:37:SER:N	1:M:257:ARG:HG3	157.35	0.76
1:H:257:ARG:HG3	1:L:37:SER:N	104.25	0.76
1:H:33:GLY:N	1:L:36:HIS:CE1	98.39	0.76
1:G:33:GLY:CA	1:N:36:HIS:HE1	149.06	0.76
1:P:36:HIS:CE1	1:Q:33:GLY:N	2.53	0.76
1:E:33:GLY:CA	1:Q:36:HIS:HE1	88.93	0.76
1:O:33:GLY:CA	1:Y:36:HIS:HE1	155.48	0.76
1:M:36:HIS:CE1	1:2:33:GLY:N	11.41	0.76
1:A:37:SER:N	1:E:257:ARG:HG3	2.01	0.76
1:F:33:GLY:CA	1:H:36:HIS:HE1	88.41	0.76
1:T:33:GLY:N	1:X:36:HIS:CE1	98.39	0.76
1:A:36:HIS:CE1	1:U:33:GLY:N	141.79	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:33:GLY:CA	1:V:36:HIS:HE1	1.97	0.76
1:Y:34:VAL:HG23	1:7:36:HIS:CE1	99.30	0.76
1:L:36:HIS:CE1	1:1:33:GLY:N	2.53	0.76
1:X:34:VAL:CA	1:5:36:HIS:CE1	2.69	0.76
1:A:257:ARG:CD	1:B:36:HIS:C	2.53	0.76
1:A:34:VAL:CA	1:B:36:HIS:CE1	2.69	0.76
1:G:36:HIS:CE1	1:W:33:GLY:CA	2.69	0.76
1:J:257:ARG:HG3	1:Z:37:SER:N	22.27	0.76
1:I:36:HIS:CE1	1:J:33:GLY:CA	2.69	0.76
1:L:33:GLY:CA	1:R:36:HIS:CE1	144.94	0.76
1:M:36:HIS:HE1	1:2:33:GLY:CA	11.88	0.76
1:F:33:GLY:CA	1:R:36:HIS:HE1	1.97	0.76
1:U:36:HIS:CE1	1:4:33:GLY:N	2.54	0.76
1:P:33:GLY:CA	1:U:36:HIS:CE1	99.15	0.76
1:X:33:GLY:N	1:Y:36:HIS:CE1	11.42	0.76
1:S:37:SER:N	1:3:257:ARG:HG3	1.99	0.76
1:H:33:GLY:N	1:Z:36:HIS:CE1	2.53	0.76
1:X:33:GLY:N	1:5:36:HIS:CE1	2.53	0.76
1:T:36:HIS:CE1	1:5:34:VAL:HG23	92.47	0.76
1:B:257:ARG:CG	1:4:37:SER:CA	163.98	0.76
1:D:36:HIS:HE1	1:R:33:GLY:CA	97.69	0.76
1:G:33:GLY:CA	1:N:36:HIS:CE1	148.49	0.76
1:H:36:HIS:CE1	1:I:33:GLY:N	2.53	0.76
1:K:33:GLY:N	1:6:36:HIS:CE1	2.54	0.76
1:N:33:GLY:N	1:S:36:HIS:CE1	89.14	0.76
1:D:36:HIS:CE1	1:R:33:GLY:N	97.71	0.76
1:I:33:GLY:N	1:1:36:HIS:CE1	97.71	0.76
1:W:37:SER:HG	1:7:257:ARG:HG2	148.11	0.76
1:A:37:SER:OG	1:E:257:ARG:N	2.18	0.76
1:D:257:ARG:N	1:F:37:SER:OG	87.59	0.76
1:J:257:ARG:HG2	1:Z:37:SER:HG	25.61	0.76
1:L:36:HIS:CE1	1:1:33:GLY:CA	2.69	0.76
1:O:36:HIS:CE1	1:P:33:GLY:CA	2.69	0.76
1:Q:36:HIS:CE1	1:S:33:GLY:CA	2.69	0.76
1:Q:36:HIS:CE1	1:S:33:GLY:N	2.53	0.76
1:K:257:ARG:CD	1:6:36:HIS:C	2.55	0.75
1:B:33:GLY:CA	1:C:36:HIS:CE1	2.69	0.75
1:M:36:HIS:HE1	1:N:33:GLY:CA	1.98	0.75
1:M:36:HIS:CE1	1:N:33:GLY:N	2.54	0.75
1:X:33:GLY:CA	1:Y:36:HIS:CE1	11.44	0.75
1:N:36:HIS:CE1	1:Z:33:GLY:CA	155.13	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:36:HIS:CE1	1:Z:33:GLY:N	153.85	0.75
1:H:33:GLY:CA	1:Z:36:HIS:CE1	2.69	0.75
1:M:257:ARG:N	1:2:37:SER:OG	2.16	0.75
1:O:33:GLY:CA	1:3:36:HIS:HE1	1.97	0.75
1:B:339:GLN:HE22	1:5:435:THR:HG21	223.09	0.75
1:G:34:VAL:HG23	1:N:36:HIS:CE1	148.45	0.75
1:K:36:HIS:C	1:S:257:ARG:CD	157.95	0.75
1:F:33:GLY:CA	1:R:36:HIS:CE1	2.69	0.75
1:S:36:HIS:CE1	1:3:33:GLY:CA	2.69	0.75
1:U:36:HIS:CE1	1:4:33:GLY:CA	2.70	0.75
1:I:36:HIS:CE1	1:6:33:GLY:CA	88.79	0.75
1:D:34:VAL:CA	1:E:36:HIS:CE1	2.70	0.75
1:K:36:HIS:CE1	1:S:33:GLY:CA	151.89	0.75
1:O:36:HIS:HE1	1:V:33:GLY:CA	94.17	0.75
1:T:284:ARG:HH22	1:3:100:SER:HA	1.52	0.75
1:T:36:HIS:CE1	1:U:33:GLY:CA	2.69	0.75
1:V:36:HIS:CE1	1:W:33:GLY:CA	11.44	0.75
1:O:33:GLY:CA	1:Y:36:HIS:CE1	155.14	0.75
1:O:33:GLY:N	1:Y:36:HIS:CE1	153.86	0.75
1:Y:33:GLY:CA	1:7:36:HIS:CE1	97.58	0.75
1:C:33:GLY:CA	1:D:36:HIS:CE1	2.69	0.75
1:I:284:ARG:HH22	1:J:100:SER:HA	64.67	0.75
1:J:33:GLY:CA	1:Z:36:HIS:CE1	12.88	0.75
1:J:36:HIS:CE1	1:0:34:VAL:CA	2.70	0.75
1:J:36:HIS:HE1	1:K:33:GLY:CA	82.81	0.75
1:O:36:HIS:CE1	1:V:33:GLY:CA	94.82	0.75
1:P:36:HIS:CE1	1:Q:34:VAL:CA	2.71	0.75
1:F:33:GLY:N	1:R:36:HIS:CE1	2.53	0.75
1:U:284:ARG:HH22	1:V:100:SER:HA	59.06	0.75
1:O:36:HIS:CE1	1:V:33:GLY:N	94.93	0.75
1:R:33:GLY:CA	1:V:36:HIS:CE1	2.69	0.75
1:I:33:GLY:CA	1:1:36:HIS:CE1	97.58	0.75
1:K:33:GLY:CA	1:6:36:HIS:CE1	2.70	0.75
1:W:36:HIS:CE1	1:7:33:GLY:CA	148.49	0.75
1:D:36:HIS:C	1:R:257:ARG:CD	110.51	0.75
1:A:34:VAL:CA	1:E:36:HIS:CE1	10.56	0.75
1:D:257:ARG:CD	1:F:36:HIS:C	85.36	0.75
1:F:36:HIS:HE1	1:G:33:GLY:CA	1.97	0.75
1:F:36:HIS:CE1	1:G:33:GLY:CA	2.70	0.75
1:F:33:GLY:CA	1:H:36:HIS:CE1	87.91	0.75
1:J:36:HIS:CE1	1:0:33:GLY:N	2.54	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:284:ARG:HH22	1:O:100:SER:HA	1.52	0.75
1:H:33:GLY:CA	1:L:36:HIS:CE1	99.15	0.75
1:N:284:ARG:HH22	1:P:100:SER:HA	1.52	0.75
1:G:257:ARG:CD	1:N:36:HIS:C	146.50	0.75
1:O:36:HIS:C	1:P:257:ARG:CD	2.55	0.75
1:P:257:ARG:CD	1:U:36:HIS:C	103.32	0.75
1:P:36:HIS:CE1	1:Q:33:GLY:CA	2.69	0.75
1:C:36:HIS:CE1	1:T:33:GLY:N	149.77	0.75
1:T:36:HIS:C	1:5:257:ARG:CD	100.13	0.75
1:X:100:SER:HA	1:4:284:ARG:HH22	1.52	0.75
1:I:36:HIS:C	1:6:257:ARG:CD	100.93	0.75
1:K:34:VAL:CA	1:6:36:HIS:CE1	2.70	0.75
1:A:284:ARG:HH22	1:G:100:SER:HA	1.52	0.75
1:D:33:GLY:CA	1:F:36:HIS:CE1	91.80	0.75
1:I:36:HIS:C	1:J:257:ARG:CD	2.55	0.75
1:M:257:ARG:CD	1:2:36:HIS:C	2.55	0.75
1:M:36:HIS:C	1:N:257:ARG:CD	2.55	0.75
1:N:33:GLY:CA	1:S:36:HIS:CE1	88.90	0.75
1:R:284:ARG:HH22	1:S:100:SER:HA	1.52	0.75
1:U:36:HIS:CE1	1:4:34:VAL:CA	2.70	0.75
1:W:36:HIS:CE1	1:7:34:VAL:CA	150.75	0.75
1:M:36:HIS:CE1	1:2:33:GLY:CA	11.44	0.75
1:B:257:ARG:CD	1:4:36:HIS:C	162.96	0.75
1:Z:284:ARG:HH22	1:6:100:SER:HA	165.53	0.75
1:D:33:GLY:N	1:E:36:HIS:CE1	2.54	0.75
1:E:284:ARG:HH22	1:Q:100:SER:HA	1.52	0.75
1:E:33:GLY:CA	1:Q:36:HIS:CE1	88.13	0.75
1:F:36:HIS:CE1	1:G:33:GLY:N	2.53	0.75
1:J:36:HIS:C	1:K:257:ARG:CD	83.45	0.75
1:F:34:VAL:CA	1:R:36:HIS:CE1	2.70	0.75
1:L:34:VAL:HG23	1:R:36:HIS:CE1	147.32	0.75
1:S:284:ARG:HH22	1:U:100:SER:HA	1.52	0.75
1:T:36:HIS:C	1:U:257:ARG:CD	2.55	0.75
1:V:33:GLY:CA	1:W:36:HIS:CE1	2.70	0.75
1:V:34:VAL:CA	1:W:36:HIS:CE1	2.70	0.75
1:X:36:HIS:CE1	1:Y:33:GLY:CA	2.69	0.75
1:O:34:VAL:CA	1:Y:36:HIS:CE1	157.00	0.75
1:Z:33:GLY:CA	1:O:36:HIS:CE1	2.69	0.75
1:B:36:HIS:CE1	1:C:33:GLY:CA	11.43	0.75
1:F:36:HIS:C	1:G:257:ARG:CD	2.55	0.75
1:H:257:ARG:CG	1:L:37:SER:HG	106.56	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:33:GLY:CA	1:2:36:HIS:CE1	2.69	0.75
1:O:36:HIS:C	1:V:257:ARG:CD	110.40	0.75
1:P:36:HIS:C	1:Q:257:ARG:CD	2.55	0.75
1:L:257:ARG:CD	1:R:36:HIS:C	151.70	0.75
1:C:36:HIS:CE1	1:T:33:GLY:CA	150.12	0.75
1:W:284:ARG:HH22	1:Z:100:SER:HA	84.09	0.75
1:O:257:ARG:CD	1:3:36:HIS:C	2.55	0.75
1:5:70:ASP:O	1:5:503:ARG:NH2	2.20	0.75
1:D:284:ARG:HH22	1:E:100:SER:HA	101.50	0.75
1:D:33:GLY:CA	1:E:36:HIS:CE1	2.70	0.75
1:F:257:ARG:CD	1:R:36:HIS:C	2.55	0.75
1:H:36:HIS:CE1	1:I:33:GLY:CA	2.69	0.75
1:K:36:HIS:C	1:L:257:ARG:CD	2.56	0.75
1:N:284:ARG:HH22	1:O:100:SER:HA	59.07	0.75
1:O:257:ARG:CD	1:Y:36:HIS:C	160.24	0.75
1:O:284:ARG:HH22	1:P:100:SER:HA	64.66	0.75
1:N:100:SER:HA	1:P:284:ARG:HH22	46.57	0.75
1:G:36:HIS:C	1:W:257:ARG:CD	2.55	0.75
1:V:36:HIS:C	1:W:257:ARG:CD	20.99	0.75
1:W:284:ARG:HH22	1:Y:100:SER:HA	1.52	0.75
1:F:100:SER:HA	1:3:284:ARG:HH22	155.37	0.74
1:A:406:ASP:OD1	1:G:341:HIS:NE2	2.20	0.74
1:B:70:ASP:O	1:B:503:ARG:NH2	2.20	0.74
1:C:100:SER:HA	1:M:284:ARG:HH22	1.52	0.74
1:H:36:HIS:CE1	1:I:34:VAL:CA	2.70	0.74
1:J:284:ARG:HH22	1:2:100:SER:HA	131.91	0.74
1:J:70:ASP:O	1:J:503:ARG:NH2	2.20	0.74
1:L:70:ASP:O	1:L:503:ARG:NH2	2.20	0.74
1:R:70:ASP:O	1:R:503:ARG:NH2	2.20	0.74
1:T:33:GLY:CA	1:X:36:HIS:CE1	99.15	0.74
1:X:34:VAL:CA	1:Y:36:HIS:CE1	10.57	0.74
1:X:257:ARG:CD	1:Y:36:HIS:C	20.98	0.74
1:Y:70:ASP:O	1:Y:503:ARG:NH2	2.20	0.74
1:Z:257:ARG:CD	1:0:36:HIS:C	2.55	0.74
1:X:33:GLY:CA	1:5:36:HIS:CE1	2.69	0.74
1:B:511:TRP:HE1	1:C:173:LEU:HD13	34.88	0.74
1:B:34:VAL:CA	1:C:36:HIS:CE1	2.70	0.74
1:C:406:ASP:OD1	1:1:341:HIS:NE2	2.21	0.74
1:D:257:ARG:CD	1:E:36:HIS:C	2.55	0.74
1:F:257:ARG:CD	1:H:36:HIS:C	94.71	0.74
1:E:100:SER:HA	1:F:284:ARG:HH22	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:284:ARG:HH22	1:O:100:SER:HA	199.86	0.74
1:K:70:ASP:O	1:K:503:ARG:NH2	2.20	0.74
1:M:36:HIS:C	1:2:257:ARG:CD	20.98	0.74
1:P:70:ASP:O	1:P:503:ARG:NH2	2.20	0.74
1:D:36:HIS:CE1	1:R:34:VAL:CA	100.00	0.74
1:S:70:ASP:O	1:S:503:ARG:NH2	2.20	0.74
1:C:36:HIS:C	1:T:257:ARG:CD	161.88	0.74
1:A:36:HIS:CE1	1:U:34:VAL:CA	145.99	0.74
1:V:70:ASP:O	1:V:503:ARG:NH2	2.20	0.74
1:H:257:ARG:CD	1:Z:36:HIS:C	2.55	0.74
1:U:36:HIS:C	1:4:257:ARG:CD	2.55	0.74
1:4:70:ASP:O	1:4:503:ARG:NH2	2.20	0.74
1:K:341:HIS:NE2	1:7:406:ASP:OD1	2.21	0.74
1:C:36:HIS:CE1	1:T:34:VAL:CA	153.77	0.74
1:D:70:ASP:O	1:D:503:ARG:NH2	2.20	0.74
1:F:100:SER:HA	1:Q:284:ARG:HH22	1.52	0.74
1:G:70:ASP:O	1:G:503:ARG:NH2	2.20	0.74
1:H:284:ARG:HH22	1:W:100:SER:HA	1.52	0.74
1:I:257:ARG:CD	1:1:36:HIS:C	110.51	0.74
1:K:100:SER:HA	1:M:284:ARG:HH22	130.59	0.74
1:M:36:HIS:CE1	1:N:34:VAL:CA	2.70	0.74
1:N:36:HIS:C	1:Z:257:ARG:CD	160.24	0.74
1:O:70:ASP:O	1:O:503:ARG:NH2	2.20	0.74
1:Q:36:HIS:C	1:S:257:ARG:CD	2.55	0.74
1:W:100:SER:HA	1:X:284:ARG:HH22	59.07	0.74
1:T:34:VAL:CA	1:X:36:HIS:CE1	99.73	0.74
1:X:36:HIS:C	1:Y:257:ARG:CD	2.55	0.74
1:O:33:GLY:CA	1:3:36:HIS:CE1	2.69	0.74
1:V:406:ASP:OD1	1:4:341:HIS:NE2	2.21	0.74
1:A:36:HIS:CE1	1:U:33:GLY:CA	142.44	0.74
1:B:257:ARG:CD	1:C:36:HIS:C	2.55	0.74
1:C:341:HIS:NE2	1:E:406:ASP:OD1	116.91	0.74
1:J:406:ASP:OD1	1:2:341:HIS:NE2	136.00	0.74
1:J:36:HIS:CE1	1:K:33:GLY:CA	82.26	0.74
1:L:36:HIS:C	1:1:257:ARG:CD	2.55	0.74
1:K:341:HIS:NE2	1:M:406:ASP:OD1	135.75	0.74
1:H:406:ASP:OD1	1:O:341:HIS:NE2	207.47	0.74
1:Q:70:ASP:O	1:Q:503:ARG:NH2	2.20	0.74
1:R:257:ARG:CD	1:V:36:HIS:C	2.55	0.74
1:Y:257:ARG:CD	1:7:36:HIS:C	110.51	0.74
1:W:406:ASP:OD1	1:Y:341:HIS:NE2	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:34:VAL:CA	1:Z:36:HIS:CE1	2.70	0.74
1:I:100:SER:HA	1:2:284:ARG:HH22	179.91	0.74
1:F:341:HIS:NE2	1:3:406:ASP:OD1	134.81	0.74
1:A:33:GLY:CA	1:B:36:HIS:HE1	2.01	0.74
1:B:406:ASP:OD1	1:J:341:HIS:NE2	2.21	0.74
1:W:36:HIS:C	1:7:257:ARG:CD	146.50	0.74
1:V:257:ARG:CD	1:W:36:HIS:C	2.55	0.74
1:W:406:ASP:OD1	1:Z:341:HIS:NE2	87.71	0.74
1:W:70:ASP:O	1:W:503:ARG:NH2	2.20	0.74
1:Y:284:ARG:HH22	1:Z:100:SER:HA	59.07	0.74
1:Y:406:ASP:OD1	1:Z:341:HIS:NE2	70.44	0.74
1:0:406:ASP:OD1	1:7:341:HIS:NE2	2.21	0.74
1:B:257:ARG:N	1:4:37:SER:OG	167.53	0.74
1:A:406:ASP:OD1	1:5:341:HIS:NE2	184.56	0.74
1:A:34:VAL:CG2	1:B:36:HIS:CE1	2.71	0.74
1:D:34:VAL:CA	1:F:36:HIS:CE1	91.92	0.74
1:H:257:ARG:CD	1:L:36:HIS:C	103.33	0.74
1:K:406:ASP:OD1	1:0:341:HIS:NE2	2.21	0.74
1:M:36:HIS:CE1	1:N:33:GLY:CA	2.70	0.74
1:O:511:TRP:HE1	1:P:173:LEU:HD13	1.53	0.74
1:R:406:ASP:OD1	1:S:341:HIS:NE2	2.21	0.74
1:T:511:TRP:HE1	1:5:173:LEU:HD13	114.50	0.74
1:A:70:ASP:O	1:A:503:ARG:NH2	2.20	0.74
1:D:36:HIS:CE1	1:R:33:GLY:CA	97.58	0.74
1:G:36:HIS:CE1	1:W:34:VAL:CA	2.70	0.74
1:L:36:HIS:CE1	1:1:34:VAL:CA	2.70	0.74
1:F:284:ARG:HH22	1:T:100:SER:HA	165.53	0.74
1:I:34:VAL:CA	1:1:36:HIS:CE1	99.99	0.74
1:M:34:VAL:CA	1:2:36:HIS:CE1	2.70	0.74
1:A:100:SER:HA	1:B:284:ARG:HH22	64.67	0.74
1:D:100:SER:HA	1:P:284:ARG:HH22	1.52	0.74
1:E:406:ASP:OD1	1:Q:341:HIS:NE2	2.21	0.74
1:I:341:HIS:NE2	1:2:406:ASP:OD1	183.90	0.74
1:J:511:TRP:HE1	1:K:173:LEU:HD13	83.16	0.74
1:J:36:HIS:CE1	1:K:34:VAL:CA	85.61	0.74
1:N:70:ASP:O	1:N:503:ARG:NH2	2.20	0.74
1:O:173:LEU:HD13	1:3:511:TRP:HE1	1.53	0.74
1:Q:406:ASP:OD1	1:R:341:HIS:NE2	70.44	0.74
1:V:341:HIS:NE2	1:X:406:ASP:OD1	2.21	0.74
1:X:341:HIS:NE2	1:4:406:ASP:OD1	2.21	0.74
1:S:36:HIS:C	1:3:257:ARG:CD	2.55	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:34:VAL:CA	1:3:36:HIS:CE1	2.71	0.74
1:B:346:GLY:HA2	1:L:284:ARG:HD2	1.70	0.74
1:G:284:ARG:HH22	1:I:100:SER:HA	1.52	0.74
1:A:284:ARG:HD2	1:G:346:GLY:HA2	1.70	0.74
1:I:409:PRO:HG3	1:I:432:TYR:CZ	2.23	0.74
1:M:36:HIS:CE1	1:2:34:VAL:CA	10.57	0.74
1:D:284:ARG:HH22	1:N:100:SER:HA	1.52	0.74
1:D:406:ASP:OD1	1:N:341:HIS:NE2	2.21	0.74
1:Q:100:SER:HA	1:S:284:ARG:HH22	101.50	0.74
1:F:406:ASP:OD1	1:T:341:HIS:NE2	151.30	0.74
1:T:409:PRO:HG3	1:T:432:TYR:CZ	2.23	0.74
1:S:406:ASP:OD1	1:U:341:HIS:NE2	2.21	0.74
1:T:406:ASP:OD1	1:U:341:HIS:NE2	60.80	0.74
1:U:406:ASP:OD1	1:V:341:HIS:NE2	70.44	0.74
1:V:36:HIS:CE1	1:W:34:VAL:CA	10.57	0.74
1:J:257:ARG:CD	1:Z:36:HIS:C	20.89	0.74
1:J:36:HIS:C	1:0:257:ARG:CD	2.55	0.74
1:J:36:HIS:CE1	1:0:33:GLY:CA	2.70	0.74
1:2:409:PRO:HG3	1:2:432:TYR:CZ	2.23	0.74
1:5:409:PRO:HG3	1:5:432:TYR:CZ	2.23	0.74
1:C:293:THR:OG1	1:C:303:THR:OG1	2.06	0.74
1:E:409:PRO:HG3	1:E:432:TYR:CZ	2.23	0.74
1:F:409:PRO:HG3	1:F:432:TYR:CZ	2.23	0.74
1:F:34:VAL:CA	1:H:36:HIS:CE1	90.22	0.74
1:J:409:PRO:HG3	1:J:432:TYR:CZ	2.23	0.74
1:K:409:PRO:HG3	1:K:432:TYR:CZ	2.23	0.74
1:K:511:TRP:HE1	1:S:173:LEU:HD13	170.69	0.74
1:N:293:THR:OG1	1:N:303:THR:OG1	2.06	0.74
1:P:409:PRO:HG3	1:P:432:TYR:CZ	2.23	0.74
1:R:284:ARG:HD2	1:S:346:GLY:HA2	1.71	0.74
1:P:34:VAL:CA	1:U:36:HIS:CE1	99.73	0.74
1:T:100:SER:HA	1:V:284:ARG:HH22	95.74	0.74
1:0:284:ARG:HH22	1:7:100:SER:HA	1.52	0.73
1:2:293:THR:OG1	1:2:303:THR:OG1	2.06	0.73
1:4:409:PRO:HG3	1:4:432:TYR:CZ	2.23	0.73
1:Z:406:ASP:OD1	1:6:341:HIS:NE2	151.30	0.73
1:A:36:HIS:CE1	1:U:34:VAL:CG2	145.67	0.73
1:C:341:HIS:NE2	1:M:406:ASP:OD1	2.21	0.73
1:D:409:PRO:HG3	1:D:432:TYR:CZ	2.23	0.73
1:E:293:THR:OG1	1:E:303:THR:OG1	2.06	0.73
1:D:406:ASP:OD1	1:E:341:HIS:NE2	92.31	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:ARG:CD	1:E:36:HIS:C	20.97	0.73
1:E:70:ASP:O	1:E:503:ARG:NH2	2.20	0.73
1:F:293:THR:OG1	1:F:303:THR:OG1	2.06	0.73
1:G:341:HIS:NE2	1:O:406:ASP:OD1	179.11	0.73
1:G:36:HIS:C	1:M:257:ARG:CD	158.03	0.73
1:G:37:SER:HG	1:M:257:ARG:CG	160.91	0.73
1:I:293:THR:OG1	1:I:303:THR:OG1	2.06	0.73
1:L:511:TRP:HE1	1:1:173:LEU:HD13	1.53	0.73
1:M:409:PRO:HG3	1:M:432:TYR:CZ	2.23	0.73
1:N:341:HIS:NE2	1:P:406:ASP:OD1	24.89	0.73
1:N:511:TRP:HE1	1:Z:173:LEU:HD13	173.04	0.73
1:N:406:ASP:OD1	1:P:341:HIS:NE2	2.21	0.73
1:Q:293:THR:OG1	1:Q:303:THR:OG1	2.06	0.73
1:Q:284:ARG:HH22	1:R:100:SER:HA	59.07	0.73
1:Y:409:PRO:HG3	1:Y:432:TYR:CZ	2.23	0.73
1:Z:70:ASP:O	1:Z:503:ARG:NH2	2.20	0.73
1:T:406:ASP:OD1	1:3:341:HIS:NE2	2.20	0.73
1:A:36:HIS:C	1:U:257:ARG:CD	144.97	0.73
1:C:284:ARG:HH22	1:1:100:SER:HA	1.52	0.73
1:C:346:GLY:HA2	1:M:284:ARG:HD2	1.70	0.73
1:C:284:ARG:HH22	1:D:100:SER:HA	101.49	0.73
1:D:173:LEU:HD13	1:F:511:TRP:HE1	82.18	0.73
1:D:284:ARG:HD2	1:E:346:GLY:HA2	99.83	0.73
1:C:257:ARG:CD	1:D:36:HIS:C	2.55	0.73
1:A:36:HIS:C	1:E:257:ARG:CD	2.57	0.73
1:A:36:HIS:CE1	1:E:34:VAL:HG23	2.21	0.73
1:F:36:HIS:CE1	1:G:34:VAL:CA	2.70	0.73
1:H:36:HIS:C	1:I:257:ARG:CD	2.55	0.73
1:I:511:TRP:HE1	1:J:173:LEU:HD13	1.53	0.73
1:K:406:ASP:OD1	1:L:341:HIS:NE2	60.80	0.73
1:L:284:ARG:HD2	1:M:346:GLY:HA2	90.01	0.73
1:K:36:HIS:CE1	1:L:33:GLY:CA	2.69	0.73
1:B:341:HIS:NE2	1:L:406:ASP:OD1	2.21	0.73
1:N:284:ARG:HD2	1:O:346:GLY:HA2	62.91	0.73
1:N:284:ARG:HD2	1:P:346:GLY:HA2	1.70	0.73
1:O:293:THR:OG1	1:O:303:THR:OG1	2.06	0.73
1:O:36:HIS:CE1	1:V:34:VAL:CA	97.06	0.73
1:O:409:PRO:HG3	1:O:432:TYR:CZ	2.23	0.73
1:O:36:HIS:CE1	1:P:34:VAL:CA	2.69	0.73
1:F:346:GLY:HA2	1:Q:284:ARG:HD2	1.70	0.73
1:Q:511:TRP:HE1	1:S:173:LEU:HD13	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:409:PRO:HG3	1:R:432:TYR:CZ	2.23	0.73
1:T:257:ARG:CD	1:X:36:HIS:C	103.32	0.73
1:W:409:PRO:HG3	1:W:432:TYR:CZ	2.23	0.73
1:X:173:LEU:HD13	1:Y:511:TRP:HE1	34.88	0.73
1:X:341:HIS:NE2	1:Z:406:ASP:OD1	115.78	0.73
1:Z:409:PRO:HG3	1:Z:432:TYR:CZ	2.23	0.73
1:0:409:PRO:HG3	1:0:432:TYR:CZ	2.23	0.73
1:W:511:TRP:HE1	1:7:173:LEU:HD13	149.30	0.73
1:A:33:GLY:N	1:B:36:HIS:CE1	2.56	0.73
1:A:341:HIS:NE2	1:I:406:ASP:OD1	2.21	0.73
1:G:406:ASP:OD1	1:I:341:HIS:NE2	2.20	0.73
1:G:511:TRP:HE1	1:W:173:LEU:HD13	1.53	0.73
1:M:173:LEU:HD13	1:2:511:TRP:HE1	1.53	0.73
1:N:409:PRO:HG3	1:N:432:TYR:CZ	2.23	0.73
1:S:409:PRO:HG3	1:S:432:TYR:CZ	2.23	0.73
1:V:511:TRP:HE1	1:W:173:LEU:HD13	34.88	0.73
1:H:173:LEU:HD13	1:Z:511:TRP:HE1	1.53	0.73
1:0:293:THR:OG1	1:0:303:THR:OG1	2.06	0.73
1:F:346:GLY:HA2	1:3:284:ARG:HD2	147.04	0.73
1:C:100:SER:HA	1:E:284:ARG:HH22	116.81	0.73
1:I:406:ASP:OD1	1:J:341:HIS:NE2	60.80	0.73
1:K:293:THR:OG1	1:K:303:THR:OG1	2.06	0.73
1:B:100:SER:HA	1:L:284:ARG:HH22	1.52	0.73
1:M:100:SER:HA	1:1:284:ARG:HH22	1.52	0.73
1:E:284:ARG:HD2	1:Q:346:GLY:HA2	1.70	0.73
1:E:257:ARG:CD	1:Q:36:HIS:C	89.82	0.73
1:R:293:THR:OG1	1:R:303:THR:OG1	2.06	0.73
1:T:293:THR:OG1	1:T:303:THR:OG1	2.06	0.73
1:T:341:HIS:NE2	1:V:406:ASP:OD1	115.78	0.73
1:T:36:HIS:CE1	1:5:34:VAL:CA	92.35	0.73
1:V:100:SER:HA	1:X:284:ARG:HH22	1.52	0.73
1:V:173:LEU:HD13	1:W:511:TRP:HE1	1.53	0.73
1:X:409:PRO:HG3	1:X:432:TYR:CZ	2.23	0.73
1:Z:34:VAL:CA	1:0:36:HIS:CE1	2.71	0.73
1:Z:173:LEU:HD13	1:0:511:TRP:HE1	1.54	0.73
1:F:511:TRP:HE1	1:G:173:LEU:HD13	1.54	0.73
1:G:284:ARG:HD2	1:H:346:GLY:HA2	62.91	0.73
1:G:36:HIS:CE1	1:M:33:GLY:CA	149.66	0.73
1:H:341:HIS:NE2	1:Y:406:ASP:OD1	2.21	0.73
1:I:36:HIS:CE1	1:J:34:VAL:CA	2.70	0.73
1:K:284:ARG:HH22	1:L:100:SER:HA	64.67	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:409:PRO:HG3	1:Q:432:TYR:CZ	2.23	0.73
1:X:293:THR:OG1	1:X:303:THR:OG1	2.06	0.73
1:X:36:HIS:CE1	1:Y:34:VAL:CA	2.71	0.73
1:4:293:THR:OG1	1:4:303:THR:OG1	2.06	0.73
1:B:33:GLY:CA	1:4:36:HIS:HE1	154.09	0.73
1:B:257:ARG:HG3	1:4:37:SER:N	163.01	0.73
1:A:284:ARG:HH22	1:5:100:SER:HA	175.18	0.73
1:K:100:SER:HA	1:7:284:ARG:HH22	1.52	0.73
1:C:406:ASP:OD1	1:D:341:HIS:NE2	92.30	0.73
1:G:316:ARG:HH22	1:H:98:ASN:CB	64.57	0.73
1:J:284:ARG:HD2	1:2:346:GLY:HA2	131.66	0.73
1:L:406:ASP:OD1	1:M:341:HIS:NE2	82.95	0.73
1:N:346:GLY:HA2	1:P:284:ARG:HD2	38.29	0.73
1:N:406:ASP:OD1	1:O:341:HIS:NE2	70.44	0.73
1:O:511:TRP:HE1	1:V:173:LEU:HD13	129.30	0.73
1:P:293:THR:OG1	1:P:303:THR:OG1	2.06	0.73
1:Z:293:THR:OG1	1:Z:303:THR:OG1	2.06	0.73
1:W:284:ARG:HD2	1:Z:346:GLY:HA2	84.82	0.73
1:V:284:ARG:HD2	1:4:346:GLY:HA2	1.70	0.73
1:B:284:ARG:HH22	1:J:100:SER:HA	1.52	0.73
1:B:293:THR:OG1	1:B:303:THR:OG1	2.06	0.73
1:B:409:PRO:HG3	1:B:432:TYR:CZ	2.23	0.73
1:C:409:PRO:HG3	1:C:432:TYR:CZ	2.23	0.73
1:C:70:ASP:O	1:C:503:ARG:NH2	2.20	0.73
1:F:341:HIS:NE2	1:Q:406:ASP:OD1	2.21	0.73
1:G:293:THR:OG1	1:G:303:THR:OG1	2.06	0.73
1:K:36:HIS:CE1	1:L:34:VAL:CA	2.71	0.73
1:J:284:ARG:HH22	1:L:100:SER:HA	1.52	0.73
1:L:468:SER:HB3	1:L:474:LEU:HD11	1.71	0.73
1:M:341:HIS:NE2	1:I:406:ASP:OD1	2.21	0.73
1:M:70:ASP:O	1:M:503:ARG:NH2	2.20	0.73
1:M:511:TRP:HE1	1:N:173:LEU:HD13	1.53	0.73
1:Q:36:HIS:CE1	1:S:34:VAL:CA	2.70	0.73
1:S:293:THR:OG1	1:S:303:THR:OG1	2.06	0.73
1:X:511:TRP:HE1	1:Y:173:LEU:HD13	1.54	0.73
1:1:409:PRO:HG3	1:1:432:TYR:CZ	2.23	0.73
1:A:293:THR:OG1	1:A:303:THR:OG1	2.06	0.73
1:A:316:ARG:HH22	1:5:98:ASN:CB	176.35	0.73
1:A:409:PRO:HG3	1:A:432:TYR:CZ	2.23	0.73
1:B:468:SER:HB3	1:B:474:LEU:HD11	1.71	0.73
1:C:284:ARG:HD2	1:D:346:GLY:HA2	99.83	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:341:HIS:NE2	1:P:406:ASP:OD1	2.20	0.73
1:G:100:SER:HA	1:O:284:ARG:HH22	187.78	0.73
1:G:406:ASP:OD1	1:H:341:HIS:NE2	70.44	0.73
1:K:346:GLY:HA2	1:7:284:ARG:HD2	1.71	0.73
1:L:293:THR:OG1	1:L:303:THR:OG1	2.06	0.73
1:N:257:ARG:CD	1:S:36:HIS:C	100.10	0.73
1:R:173:LEU:HD13	1:V:511:TRP:HE1	1.54	0.73
1:V:293:THR:OG1	1:V:303:THR:OG1	2.06	0.73
1:U:284:ARG:HD2	1:V:346:GLY:HA2	62.90	0.73
1:H:100:SER:HA	1:Y:284:ARG:HH22	1.52	0.73
1:C:34:VAL:CA	1:D:36:HIS:CE1	2.71	0.73
1:G:409:PRO:HG3	1:G:432:TYR:CZ	2.23	0.73
1:J:293:THR:OG1	1:J:303:THR:OG1	2.06	0.73
1:J:406:ASP:OD1	1:L:341:HIS:NE2	2.21	0.73
1:M:346:GLY:HA2	1:1:284:ARG:HD2	1.71	0.73
1:G:34:VAL:CA	1:N:36:HIS:CE1	150.75	0.73
1:N:36:HIS:CE1	1:Z:34:VAL:CA	156.99	0.73
1:P:173:LEU:HD13	1:U:511:TRP:HE1	111.88	0.73
1:D:511:TRP:HE1	1:R:173:LEU:HD13	126.33	0.73
1:T:284:ARG:HH22	1:U:100:SER:HA	64.67	0.73
1:U:293:THR:OG1	1:U:303:THR:OG1	2.06	0.73
1:V:284:ARG:HH22	1:4:100:SER:HA	1.52	0.73
1:V:468:SER:HB3	1:V:474:LEU:HD11	1.71	0.73
1:Y:100:SER:HA	1:6:284:ARG:HH22	179.90	0.73
1:Y:173:LEU:HD13	1:7:511:TRP:HE1	126.33	0.73
1:W:284:ARG:HD2	1:Y:346:GLY:HA2	1.70	0.73
1:3:293:THR:OG1	1:3:303:THR:OG1	2.06	0.73
1:X:173:LEU:HD13	1:5:511:TRP:HE1	1.52	0.73
1:Y:346:GLY:HA2	1:6:284:ARG:HD2	179.95	0.73
1:6:409:PRO:HG3	1:6:432:TYR:CZ	2.23	0.73
1:E:341:HIS:NE2	1:F:406:ASP:OD1	2.21	0.73
1:I:468:SER:HB3	1:I:474:LEU:HD11	1.71	0.73
1:K:36:HIS:CE1	1:S:34:VAL:CA	153.61	0.73
1:L:409:PRO:HG3	1:L:432:TYR:CZ	2.23	0.73
1:Q:341:HIS:NE2	1:S:406:ASP:OD1	92.31	0.73
1:U:409:PRO:HG3	1:U:432:TYR:CZ	2.23	0.73
1:X:100:SER:HA	1:Z:284:ARG:HH22	95.74	0.73
1:Y:293:THR:OG1	1:Y:303:THR:OG1	2.06	0.73
1:1:70:ASP:O	1:1:503:ARG:NH2	2.20	0.72
1:3:409:PRO:HG3	1:3:432:TYR:CZ	2.23	0.72
1:6:293:THR:OG1	1:6:303:THR:OG1	2.06	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:468:SER:HB3	1:7:474:LEU:HD11	1.71	0.72
1:D:173:LEU:HD13	1:E:511:TRP:HE1	1.53	0.72
1:H:406:ASP:OD1	1:W:341:HIS:NE2	2.21	0.72
1:K:284:ARG:HD2	1:O:346:GLY:HA2	1.70	0.72
1:L:316:ARG:HH22	1:M:98:ASN:CB	104.22	0.72
1:O:406:ASP:OD1	1:P:341:HIS:NE2	60.80	0.72
1:P:468:SER:HB3	1:P:474:LEU:HD11	1.71	0.72
1:E:34:VAL:CA	1:Q:36:HIS:CE1	91.54	0.72
1:R:100:SER:HA	1:U:284:ARG:HH22	1.52	0.72
1:R:341:HIS:NE2	1:U:406:ASP:OD1	2.21	0.72
1:T:468:SER:HB3	1:T:474:LEU:HD11	1.71	0.72
1:X:257:ARG:CD	1:5:36:HIS:C	2.56	0.72
1:X:346:GLY:HA2	1:Z:284:ARG:HD2	101.92	0.72
1:3:244:PHE:O	1:3:246:PRO:HD3	1.90	0.72
1:3:468:SER:HB3	1:3:474:LEU:HD11	1.71	0.72
1:A:424:ALA:HA	1:5:94:ARG:HH11	204.16	0.72
1:6:468:SER:HB3	1:6:474:LEU:HD11	1.71	0.72
1:A:346:GLY:HA2	1:B:284:ARG:HD2	60.32	0.72
1:B:100:SER:HA	1:5:284:ARG:NH2	227.18	0.72
1:D:468:SER:HB3	1:D:474:LEU:HD11	1.71	0.72
1:C:173:LEU:HD13	1:D:511:TRP:HE1	1.54	0.72
1:E:468:SER:HB3	1:E:474:LEU:HD11	1.71	0.72
1:G:468:SER:HB3	1:G:474:LEU:HD11	1.71	0.72
1:H:293:THR:OG1	1:H:303:THR:OG1	2.06	0.72
1:H:346:GLY:HA2	1:Y:284:ARG:HD2	1.70	0.72
1:J:468:SER:HB3	1:J:474:LEU:HD11	1.71	0.72
1:P:511:TRP:HE1	1:Q:173:LEU:HD13	1.54	0.72
1:N:34:VAL:CA	1:S:36:HIS:CE1	92.33	0.72
1:R:346:GLY:HA2	1:U:284:ARG:HD2	1.70	0.72
1:U:468:SER:HB3	1:U:474:LEU:HD11	1.71	0.72
1:V:409:PRO:HG3	1:V:432:TYR:CZ	2.23	0.72
1:W:468:SER:HB3	1:W:474:LEU:HD11	1.71	0.72
1:W:341:HIS:NE2	1:X:406:ASP:OD1	70.44	0.72
1:Y:468:SER:HB3	1:Y:474:LEU:HD11	1.71	0.72
1:O:284:ARG:HD2	1:7:346:GLY:HA2	1.70	0.72
1:A:511:TRP:HE1	1:U:173:LEU:HD13	150.62	0.72
1:E:173:LEU:HD13	1:Q:511:TRP:HE1	90.80	0.72
1:F:36:HIS:CE1	1:G:34:VAL:CG2	2.72	0.72
1:H:409:PRO:HG3	1:H:432:TYR:CZ	2.23	0.72
1:J:244:PHE:O	1:J:246:PRO:HD3	1.90	0.72
1:N:244:PHE:O	1:N:246:PRO:HD3	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:34:VAL:CA	1:R:36:HIS:CE1	148.55	0.72
1:F:173:LEU:HD13	1:R:511:TRP:HE1	1.53	0.72
1:S:468:SER:HB3	1:S:474:LEU:HD11	1.71	0.72
1:O:36:HIS:CE1	1:V:34:VAL:CG2	96.90	0.72
1:X:346:GLY:HA2	1:4:284:ARG:HD2	1.70	0.72
1:Y:341:HIS:NE2	1:6:406:ASP:OD1	183.90	0.72
1:Z:468:SER:HB3	1:Z:474:LEU:HD11	1.71	0.72
1:J:173:LEU:HD13	1:Z:511:TRP:HE1	35.55	0.72
1:B:346:GLY:HA2	1:5:284:ARG:HD2	223.56	0.72
1:6:96:THR:HG1	1:6:342:TYR:HH	1.09	0.72
1:A:100:SER:HA	1:I:284:ARG:HH22	1.52	0.72
1:B:165:GLN:HE21	1:C:156:THR:HG21	9.01	0.72
1:C:244:PHE:O	1:C:246:PRO:HD3	1.90	0.72
1:G:244:PHE:O	1:G:246:PRO:HD3	1.90	0.72
1:H:36:HIS:CE1	1:I:34:VAL:CG2	2.72	0.72
1:I:244:PHE:O	1:I:246:PRO:HD3	1.90	0.72
1:I:70:ASP:O	1:I:503:ARG:NH2	2.20	0.72
1:K:468:SER:HB3	1:K:474:LEU:HD11	1.71	0.72
1:L:244:PHE:O	1:L:246:PRO:HD3	1.90	0.72
1:M:468:SER:HB3	1:M:474:LEU:HD11	1.71	0.72
1:R:244:PHE:O	1:R:246:PRO:HD3	1.90	0.72
1:S:511:TRP:HE1	1:3:173:LEU:HD13	1.53	0.72
1:T:165:GLN:HE21	1:5:156:THR:HG21	123.49	0.72
1:T:244:PHE:O	1:T:246:PRO:HD3	1.90	0.72
1:W:244:PHE:O	1:W:246:PRO:HD3	1.90	0.72
1:V:346:GLY:HA2	1:X:284:ARG:HD2	1.70	0.72
1:O:173:LEU:HD13	1:Y:511:TRP:HE1	173.04	0.72
1:4:468:SER:HB3	1:4:474:LEU:HD11	1.71	0.72
1:A:33:GLY:CA	1:B:36:HIS:CE1	2.72	0.72
1:D:244:PHE:O	1:D:246:PRO:HD3	1.90	0.72
1:G:36:HIS:CE1	1:M:34:VAL:CA	153.36	0.72
1:H:468:SER:HB3	1:H:474:LEU:HD11	1.71	0.72
1:H:511:TRP:HE1	1:I:173:LEU:HD13	1.53	0.72
1:K:173:LEU:HD13	1:6:511:TRP:HE1	1.53	0.72
1:H:34:VAL:CA	1:L:36:HIS:CE1	99.73	0.72
1:P:244:PHE:O	1:P:246:PRO:HD3	1.90	0.72
1:Q:346:GLY:HA2	1:S:284:ARG:HD2	99.84	0.72
1:S:244:PHE:O	1:S:246:PRO:HD3	1.90	0.72
1:V:34:VAL:CG2	1:W:36:HIS:CE1	2.72	0.72
1:W:36:HIS:CE1	1:7:34:VAL:CG2	149.01	0.72
1:T:34:VAL:CG2	1:X:36:HIS:CE1	97.79	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:284:ARG:HD2	1:Z:346:GLY:HA2	62.91	0.72
1:O:244:PHE:O	1:O:246:PRO:HD3	1.90	0.72
1:6:244:PHE:O	1:6:246:PRO:HD3	1.90	0.72
1:7:409:PRO:HG3	1:7:432:TYR:CZ	2.23	0.72
1:A:468:SER:HB3	1:A:474:LEU:HD11	1.71	0.72
1:B:36:HIS:CE1	1:C:33:GLY:N	11.41	0.72
1:D:293:THR:OG1	1:D:303:THR:OG1	2.06	0.72
1:E:244:PHE:O	1:E:246:PRO:HD3	1.90	0.72
1:C:346:GLY:HA2	1:E:284:ARG:HD2	115.95	0.72
1:N:468:SER:HB3	1:N:474:LEU:HD11	1.71	0.72
1:H:284:ARG:HD2	1:O:346:GLY:HA2	200.95	0.72
1:O:34:VAL:CG2	1:Y:36:HIS:CE1	154.77	0.72
1:D:346:GLY:HA2	1:P:284:ARG:HD2	1.70	0.72
1:F:34:VAL:CG2	1:R:36:HIS:CE1	2.73	0.72
1:T:36:HIS:CE1	1:U:34:VAL:CA	2.70	0.72
1:T:70:ASP:O	1:T:503:ARG:NH2	2.20	0.72
1:X:244:PHE:O	1:X:246:PRO:HD3	1.90	0.72
1:B:284:ARG:HD2	1:J:346:GLY:HA2	1.71	0.72
1:G:284:ARG:HH22	1:H:100:SER:HA	59.07	0.72
1:H:173:LEU:HD13	1:L:511:TRP:HE1	111.89	0.72
1:I:36:HIS:CE1	1:6:34:VAL:CA	90.96	0.72
1:B:424:ALA:HA	1:J:94:ARG:HH11	1.55	0.72
1:K:346:GLY:HA2	1:M:284:ARG:HD2	132.76	0.72
1:G:511:TRP:HE1	1:M:173:LEU:HD13	169.57	0.72
1:M:244:PHE:O	1:M:246:PRO:HD3	1.90	0.72
1:G:34:VAL:CG2	1:N:36:HIS:CE1	149.00	0.72
1:U:511:TRP:HE1	1:4:173:LEU:HD13	1.53	0.72
1:H:284:ARG:HD2	1:W:346:GLY:HA2	1.71	0.72
1:W:346:GLY:HA2	1:X:284:ARG:HD2	62.91	0.72
1:W:37:SER:HG	1:7:257:ARG:CG	148.55	0.72
1:X:468:SER:HB3	1:X:474:LEU:HD11	1.71	0.72
1:C:284:ARG:HD2	1:1:346:GLY:HA2	1.70	0.72
1:A:244:PHE:O	1:A:246:PRO:HD3	1.90	0.72
1:F:284:ARG:HD2	1:T:346:GLY:HA2	160.65	0.72
1:F:468:SER:HB3	1:F:474:LEU:HD11	1.71	0.72
1:H:70:ASP:O	1:H:503:ARG:NH2	2.20	0.72
1:O:36:HIS:CE1	1:P:34:VAL:CG2	2.72	0.72
1:U:244:PHE:O	1:U:246:PRO:HD3	1.90	0.72
1:W:293:THR:OG1	1:W:303:THR:OG1	2.06	0.72
1:Y:244:PHE:O	1:Y:246:PRO:HD3	1.90	0.72
1:L:36:HIS:CE1	1:1:34:VAL:CG2	2.73	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:468:SER:HB3	1:2:474:LEU:HD11	1.71	0.72
1:3:498:GLY:O	1:3:502:SER:HB2	1.90	0.72
1:B:94:ARG:HH11	1:L:424:ALA:HA	1.55	0.72
1:F:244:PHE:O	1:F:246:PRO:HD3	1.90	0.72
1:I:346:GLY:HA2	1:2:284:ARG:HD2	179.96	0.72
1:A:94:ARG:HH11	1:I:424:ALA:HA	1.55	0.72
1:J:498:GLY:O	1:J:502:SER:HB2	1.90	0.72
1:D:424:ALA:HA	1:N:94:ARG:HH11	1.55	0.72
1:Q:284:ARG:HD2	1:R:346:GLY:HA2	62.91	0.72
1:Q:468:SER:HB3	1:Q:474:LEU:HD11	1.71	0.72
1:R:468:SER:HB3	1:R:474:LEU:HD11	1.71	0.72
1:Q:424:ALA:HA	1:R:94:ARG:HH11	82.44	0.72
1:4:244:PHE:O	1:4:246:PRO:HD3	1.90	0.72
1:5:293:THR:OG1	1:5:303:THR:OG1	2.06	0.72
1:A:108:PRO:O	1:A:485:LYS:HD3	1.90	0.72
1:F:70:ASP:O	1:F:503:ARG:NH2	2.20	0.72
1:G:36:HIS:CE1	1:W:34:VAL:CG2	2.73	0.72
1:J:424:ALA:HA	1:L:94:ARG:HH11	1.55	0.72
1:L:284:ARG:HH22	1:M:100:SER:HA	96.87	0.72
1:O:156:THR:HG21	1:3:165:GLN:HE21	1.55	0.72
1:O:244:PHE:O	1:O:246:PRO:HD3	1.90	0.72
1:Q:244:PHE:O	1:Q:246:PRO:HD3	1.90	0.72
1:L:34:VAL:CG2	1:R:36:HIS:CE1	148.23	0.72
1:K:36:HIS:CE1	1:S:34:VAL:CG2	151.32	0.72
1:S:36:HIS:CE1	1:3:34:VAL:CA	2.70	0.72
1:T:173:LEU:HD13	1:X:511:TRP:HE1	111.89	0.72
1:Z:244:PHE:O	1:Z:246:PRO:HD3	1.90	0.72
1:1:293:THR:OG1	1:1:303:THR:OG1	2.06	0.71
1:1:468:SER:HB3	1:1:474:LEU:HD11	1.71	0.71
1:3:70:ASP:O	1:3:503:ARG:NH2	2.20	0.71
1:4:498:GLY:O	1:4:502:SER:HB2	1.90	0.71
1:Z:284:ARG:HD2	1:6:346:GLY:HA2	160.65	0.71
1:7:70:ASP:O	1:7:503:ARG:NH2	2.20	0.71
1:A:173:LEU:HD13	1:B:511:TRP:HE1	1.54	0.71
1:A:173:LEU:HD13	1:E:511:TRP:HE1	34.86	0.71
1:A:284:ARG:HD2	1:5:346:GLY:HA2	177.42	0.71
1:A:346:GLY:HA2	1:I:284:ARG:HD2	1.70	0.71
1:D:284:ARG:HD2	1:N:346:GLY:HA2	1.70	0.71
1:D:34:VAL:CG2	1:E:36:HIS:CE1	2.72	0.71
1:A:511:TRP:HE1	1:E:173:LEU:HD13	1.54	0.71
1:F:156:THR:HG21	1:R:165:GLN:HE21	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:424:ALA:HA	1:J:94:ARG:HH11	91.00	0.71
1:K:108:PRO:O	1:K:485:LYS:HD3	1.90	0.71
1:K:284:ARG:HD2	1:L:346:GLY:HA2	60.32	0.71
1:K:498:GLY:O	1:K:502:SER:HB2	1.90	0.71
1:J:284:ARG:HD2	1:L:346:GLY:HA2	1.70	0.71
1:K:424:ALA:HA	1:L:94:ARG:HH11	90.99	0.71
1:G:346:GLY:HA2	1:O:284:ARG:HD2	182.34	0.71
1:O:284:ARG:HD2	1:P:346:GLY:HA2	60.31	0.71
1:O:109:TRP:CZ3	1:O:485:LYS:CB	2.73	0.71
1:P:36:HIS:CE1	1:Q:34:VAL:CG2	2.73	0.71
1:Q:498:GLY:O	1:Q:502:SER:HB2	1.90	0.71
1:R:108:PRO:O	1:R:485:LYS:HD3	1.90	0.71
1:U:108:PRO:O	1:U:485:LYS:HD3	1.90	0.71
1:O:468:SER:HB3	1:O:474:LEU:HD11	1.71	0.71
1:2:70:ASP:O	1:2:503:ARG:NH2	2.20	0.71
1:4:108:PRO:O	1:4:485:LYS:HD3	1.90	0.71
1:6:498:GLY:O	1:6:502:SER:HB2	1.90	0.71
1:B:316:ARG:HH22	1:J:98:ASN:CB	1.92	0.71
1:E:346:GLY:HA2	1:F:284:ARG:HD2	1.71	0.71
1:G:173:LEU:HD13	1:N:511:TRP:HE1	149.30	0.71
1:K:109:TRP:CZ3	1:K:485:LYS:CB	2.73	0.71
1:K:244:PHE:O	1:K:246:PRO:HD3	1.90	0.71
1:M:293:THR:OG1	1:M:303:THR:OG1	2.06	0.71
1:N:498:GLY:O	1:N:502:SER:HB2	1.90	0.71
1:O:156:THR:HG21	1:Y:165:GLN:HE21	200.86	0.71
1:P:108:PRO:O	1:P:485:LYS:HD3	1.91	0.71
1:Q:316:ARG:HH22	1:R:98:ASN:CB	64.57	0.71
1:S:108:PRO:O	1:S:485:LYS:HD3	1.91	0.71
1:N:173:LEU:HD13	1:S:511:TRP:HE1	114.48	0.71
1:T:424:ALA:HA	1:3:94:ARG:HH11	1.56	0.71
1:U:498:GLY:O	1:U:502:SER:HB2	1.90	0.71
1:R:34:VAL:CA	1:V:36:HIS:CE1	2.71	0.71
1:V:36:HIS:CE1	1:W:34:VAL:CG2	9.50	0.71
1:V:257:ARG:CG	1:W:37:SER:HG	1.88	0.71
1:J:511:TRP:HE1	1:O:173:LEU:HD13	1.53	0.71
1:T:284:ARG:HD2	1:3:346:GLY:HA2	1.70	0.71
1:V:424:ALA:HA	1:4:94:ARG:HH11	1.55	0.71
1:X:34:VAL:CG2	1:5:36:HIS:CE1	2.71	0.71
1:5:498:GLY:O	1:5:502:SER:HB2	1.90	0.71
1:7:244:PHE:O	1:7:246:PRO:HD3	1.90	0.71
1:C:468:SER:HB3	1:C:474:LEU:HD11	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:173:LEU:HD13	1:C:511:TRP:HE1	1.53	0.71
1:D:316:ARG:HH22	1:N:98:ASN:CB	1.92	0.71
1:D:94:ARG:HH11	1:P:424:ALA:HA	1.55	0.71
1:E:109:TRP:CZ3	1:E:485:LYS:CB	2.73	0.71
1:G:94:ARG:HH11	1:O:424:ALA:HA	223.25	0.71
1:H:244:PHE:O	1:H:246:PRO:HD3	1.90	0.71
1:K:94:ARG:HH11	1:7:424:ALA:HA	1.55	0.71
1:M:108:PRO:O	1:M:485:LYS:HD3	1.90	0.71
1:M:36:HIS:CE1	1:N:34:VAL:CG2	2.72	0.71
1:N:424:ALA:HA	1:P:94:ARG:HH11	1.55	0.71
1:O:468:SER:HB3	1:O:474:LEU:HD11	1.71	0.71
1:P:109:TRP:CZ3	1:P:485:LYS:CB	2.73	0.71
1:Q:332:GLY:HA2	1:Q:353:GLN:HE22	1.56	0.71
1:R:34:VAL:CG2	1:V:36:HIS:CE1	2.73	0.71
1:R:109:TRP:CZ3	1:R:485:LYS:CB	2.73	0.71
1:L:173:LEU:HD13	1:R:511:TRP:HE1	163.82	0.71
1:Q:94:ARG:HH11	1:S:424:ALA:HA	104.12	0.71
1:S:284:ARG:HD2	1:U:346:GLY:HA2	1.71	0.71
1:T:36:HIS:CE1	1:U:34:VAL:CG2	2.73	0.71
1:V:244:PHE:O	1:V:246:PRO:HD3	1.90	0.71
1:Y:109:TRP:CZ3	1:Y:485:LYS:CB	2.73	0.71
1:Y:108:PRO:O	1:Y:485:LYS:HD3	1.90	0.71
1:J:34:VAL:CA	1:Z:36:HIS:CE1	11.29	0.71
1:W:424:ALA:HA	1:Z:94:ARG:HH11	80.74	0.71
1:0:108:PRO:O	1:0:485:LYS:HD3	1.91	0.71
1:3:332:GLY:HA2	1:3:353:GLN:HE22	1.56	0.71
1:7:293:THR:OG1	1:7:303:THR:OG1	2.06	0.71
1:Y:34:VAL:CA	1:7:36:HIS:CE1	99.99	0.71
1:A:109:TRP:CZ3	1:A:485:LYS:CB	2.73	0.71
1:A:498:GLY:O	1:A:502:SER:HB2	1.90	0.71
1:B:109:TRP:CZ3	1:B:485:LYS:CB	2.73	0.71
1:B:498:GLY:O	1:B:502:SER:HB2	1.90	0.71
1:C:109:TRP:CZ3	1:C:485:LYS:CB	2.73	0.71
1:C:36:HIS:CE1	1:T:34:VAL:CG2	153.46	0.71
1:D:108:PRO:O	1:D:485:LYS:HD3	1.91	0.71
1:D:332:GLY:HA2	1:D:353:GLN:HE22	1.56	0.71
1:E:108:PRO:O	1:E:485:LYS:HD3	1.90	0.71
1:A:165:GLN:HE21	1:E:156:THR:HG21	1.54	0.71
1:E:94:ARG:HH11	1:F:424:ALA:HA	1.55	0.71
1:I:284:ARG:HD2	1:J:346:GLY:HA2	60.32	0.71
1:J:332:GLY:HA2	1:J:353:GLN:HE22	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:498:GLY:O	1:L:502:SER:HB2	1.90	0.71
1:R:332:GLY:HA2	1:R:353:GLN:HE22	1.56	0.71
1:Q:37:SER:HG	1:S:257:ARG:HG2	0.89	0.71
1:T:308:ILE:HG23	1:T:309:ASN:HB3	1.73	0.71
1:U:332:GLY:HA2	1:U:353:GLN:HE22	1.56	0.71
1:V:108:PRO:O	1:V:485:LYS:HD3	1.90	0.71
1:Y:34:VAL:CG2	1:7:36:HIS:CE1	99.92	0.71
1:2:108:PRO:O	1:2:485:LYS:HD3	1.90	0.71
1:4:332:GLY:HA2	1:4:353:GLN:HE22	1.56	0.71
1:5:244:PHE:O	1:5:246:PRO:HD3	1.90	0.71
1:5:308:ILE:HG23	1:5:309:ASN:HB3	1.73	0.71
1:6:109:TRP:CZ3	1:6:485:LYS:CB	2.73	0.71
1:B:244:PHE:O	1:B:246:PRO:HD3	1.90	0.71
1:C:108:PRO:O	1:C:485:LYS:HD3	1.90	0.71
1:C:156:THR:HG21	1:D:165:GLN:HE21	1.56	0.71
1:D:36:HIS:CE1	1:R:34:VAL:CG2	99.92	0.71
1:F:108:PRO:O	1:F:485:LYS:HD3	1.91	0.71
1:G:379:TYR:HD2	1:G:392:GLU:HG3	1.56	0.71
1:H:424:ALA:HA	1:O:94:ARG:HH11	240.53	0.71
1:I:109:TRP:CZ3	1:I:485:LYS:CB	2.73	0.71
1:I:308:ILE:HG23	1:I:309:ASN:HB3	1.73	0.71
1:I:36:HIS:CE1	1:6:34:VAL:CG2	90.88	0.71
1:K:34:VAL:CG2	1:6:36:HIS:CE1	2.72	0.71
1:L:379:TYR:HD2	1:L:392:GLU:HG3	1.56	0.71
1:M:332:GLY:HA2	1:M:353:GLN:HE22	1.56	0.71
1:M:109:TRP:CZ3	1:M:485:LYS:CB	2.73	0.71
1:N:332:GLY:HA2	1:N:353:GLN:HE22	1.56	0.71
1:N:379:TYR:HD2	1:N:392:GLU:HG3	1.56	0.71
1:P:379:TYR:HD2	1:P:392:GLU:HG3	1.56	0.71
1:F:98:ASN:CB	1:Q:316:ARG:HH22	1.92	0.71
1:R:379:TYR:HD2	1:R:392:GLU:HG3	1.56	0.71
1:R:424:ALA:HA	1:S:94:ARG:HH11	1.55	0.71
1:S:308:ILE:HG23	1:S:309:ASN:HB3	1.73	0.71
1:T:109:TRP:CZ3	1:T:485:LYS:CB	2.73	0.71
1:U:109:TRP:CZ3	1:U:485:LYS:CB	2.73	0.71
1:U:36:HIS:CE1	1:4:34:VAL:CG2	2.72	0.71
1:X:108:PRO:O	1:X:485:LYS:HD3	1.91	0.71
1:W:424:ALA:HA	1:Y:94:ARG:HH11	1.55	0.71
1:Z:109:TRP:CZ3	1:Z:485:LYS:CB	2.73	0.71
1:2:244:PHE:O	1:2:246:PRO:HD3	1.90	0.71
1:4:109:TRP:CZ3	1:4:485:LYS:CB	2.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:332:GLY:HA2	1:6:353:GLN:HE22	1.56	0.71
1:7:108:PRO:O	1:7:485:LYS:HD3	1.91	0.71
1:7:109:TRP:CZ3	1:7:485:LYS:CB	2.73	0.71
1:D:109:TRP:CZ3	1:D:485:LYS:CB	2.73	0.71
1:D:165:GLN:HE21	1:R:156:THR:HG21	128.68	0.71
1:C:94:ARG:HH11	1:E:424:ALA:HA	151.28	0.71
1:G:108:PRO:O	1:G:485:LYS:HD3	1.91	0.71
1:H:34:VAL:CG2	1:L:36:HIS:CE1	97.80	0.71
1:I:332:GLY:HA2	1:I:353:GLN:HE22	1.56	0.71
1:I:165:GLN:HE21	1:J:156:THR:HG21	1.55	0.71
1:J:308:ILE:HG23	1:J:309:ASN:HB3	1.73	0.71
1:J:165:GLN:HE21	1:K:156:THR:HG21	116.45	0.71
1:M:165:GLN:HE21	1:N:156:THR:HG21	1.56	0.71
1:N:316:ARG:HH22	1:O:98:ASN:CB	64.57	0.71
1:O:424:ALA:HA	1:P:94:ARG:HH11	91.00	0.71
1:E:156:THR:HG21	1:Q:165:GLN:HE21	119.10	0.71
1:S:379:TYR:HD2	1:S:392:GLU:HG3	1.56	0.71
1:T:284:ARG:HD2	1:U:346:GLY:HA2	60.32	0.71
1:V:109:TRP:CZ3	1:V:485:LYS:CB	2.73	0.71
1:Y:379:TYR:HD2	1:Y:392:GLU:HG3	1.56	0.71
1:Z:308:ILE:HG23	1:Z:309:ASN:HB3	1.73	0.71
1:Z:379:TYR:HD2	1:Z:392:GLU:HG3	1.56	0.71
1:1:308:ILE:HG23	1:1:309:ASN:HB3	1.73	0.71
1:I:34:VAL:CG2	1:1:36:HIS:CE1	99.92	0.71
1:M:36:HIS:CE1	1:2:34:VAL:CG2	9.49	0.71
1:A:156:THR:HG21	1:B:165:GLN:HE21	1.55	0.71
1:B:332:GLY:HA2	1:B:353:GLN:HE22	1.56	0.71
1:C:308:ILE:HG23	1:C:309:ASN:HB3	1.73	0.71
1:F:109:TRP:CZ3	1:F:485:LYS:CB	2.73	0.71
1:K:332:GLY:HA2	1:K:353:GLN:HE22	1.56	0.71
1:K:94:ARG:HH11	1:M:424:ALA:HA	143.86	0.71
1:K:511:TRP:HE1	1:L:173:LEU:HD13	1.54	0.71
1:L:332:GLY:HA2	1:L:353:GLN:HE22	1.56	0.71
1:N:109:TRP:CZ3	1:N:485:LYS:CB	2.73	0.71
1:O:332:GLY:HA2	1:O:353:GLN:HE22	1.56	0.71
1:Q:308:ILE:HG23	1:Q:309:ASN:HB3	1.73	0.71
1:E:34:VAL:CG2	1:Q:36:HIS:CE1	92.52	0.71
1:S:424:ALA:HA	1:U:94:ARG:HH11	1.55	0.71
1:T:332:GLY:HA2	1:T:353:GLN:HE22	1.56	0.71
1:W:108:PRO:O	1:W:485:LYS:HD3	1.90	0.71
1:0:308:ILE:HG23	1:0:309:ASN:HB3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:244:PHE:O	1:1:246:PRO:HD3	1.90	0.71
1:I:173:LEU:HD13	1:1:511:TRP:HE1	126.33	0.71
1:6:108:PRO:O	1:6:485:LYS:HD3	1.90	0.71
1:D:156:THR:HG21	1:E:165:GLN:HE21	1.56	0.71
1:D:156:THR:HG21	1:F:165:GLN:HE21	118.63	0.71
1:F:308:ILE:HG23	1:F:309:ASN:HB3	1.73	0.71
1:G:498:GLY:O	1:G:502:SER:HB2	1.90	0.71
1:H:94:ARG:HH11	1:Y:424:ALA:HA	1.55	0.71
1:I:36:HIS:CE1	1:J:34:VAL:CG2	2.73	0.71
1:G:424:ALA:HA	1:I:94:ARG:HH11	1.55	0.71
1:M:308:ILE:HG23	1:M:309:ASN:HB3	1.73	0.71
1:G:36:HIS:CE1	1:M:34:VAL:CG2	153.11	0.71
1:N:308:ILE:HG23	1:N:309:ASN:HB3	1.73	0.71
1:P:165:GLN:HE21	1:Q:156:THR:HG21	1.56	0.71
1:Q:109:TRP:CZ3	1:Q:485:LYS:CB	2.73	0.71
1:S:109:TRP:CZ3	1:S:485:LYS:CB	2.73	0.71
1:T:108:PRO:O	1:T:485:LYS:HD3	1.91	0.71
1:C:511:TRP:HE1	1:T:173:LEU:HD13	178.18	0.71
1:T:424:ALA:HA	1:U:94:ARG:HH11	91.00	0.71
1:T:94:ARG:HH11	1:V:424:ALA:HA	131.97	0.71
1:W:332:GLY:HA2	1:W:353:GLN:HE22	1.56	0.71
1:X:308:ILE:HG23	1:X:309:ASN:HB3	1.73	0.71
1:X:379:TYR:HD2	1:X:392:GLU:HG3	1.56	0.71
1:Z:424:ALA:HA	1:6:94:ARG:HH11	167.18	0.71
1:0:379:TYR:HD2	1:0:392:GLU:HG3	1.56	0.71
1:L:165:GLN:HE21	1:1:156:THR:HG21	1.56	0.71
1:2:109:TRP:CZ3	1:2:485:LYS:CB	2.73	0.71
1:3:308:ILE:HG23	1:3:309:ASN:HB3	1.73	0.71
1:5:468:SER:HB3	1:5:474:LEU:HD11	1.71	0.71
1:7:332:GLY:HA2	1:7:353:GLN:HE22	1.56	0.71
1:C:34:VAL:CG2	1:D:36:HIS:CE1	2.73	0.71
1:C:424:ALA:HA	1:1:94:ARG:HH11	1.55	0.71
1:D:308:ILE:HG23	1:D:309:ASN:HB3	1.73	0.71
1:E:308:ILE:HG23	1:E:309:ASN:HB3	1.73	0.71
1:E:424:ALA:HA	1:Q:94:ARG:HH11	1.55	0.71
1:F:332:GLY:HA2	1:F:353:GLN:HE22	1.56	0.71
1:H:379:TYR:HD2	1:H:392:GLU:HG3	1.56	0.71
1:F:173:LEU:HD13	1:H:511:TRP:HE1	100.10	0.71
1:G:284:ARG:HD2	1:I:346:GLY:HA2	1.71	0.71
1:I:108:PRO:O	1:I:485:LYS:HD3	1.91	0.71
1:J:316:ARG:HH22	1:L:98:ASN:CB	1.92	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:308:ILE:HG23	1:K:309:ASN:HB3	1.73	0.71
1:M:156:THR:HG21	1:2:165:GLN:HE21	1.55	0.71
1:M:565:ASN:OD1	1:M:566:TYR:N	2.24	0.71
1:O:308:ILE:HG23	1:O:309:ASN:HB3	1.73	0.71
1:O:498:GLY:O	1:O:502:SER:HB2	1.90	0.71
1:P:308:ILE:HG23	1:P:309:ASN:HB3	1.73	0.71
1:S:36:HIS:CE1	1:3:34:VAL:CG2	2.72	0.71
1:T:379:TYR:HD2	1:T:392:GLU:HG3	1.56	0.71
1:V:498:GLY:O	1:V:502:SER:HB2	1.90	0.71
1:X:94:ARG:HH11	1:4:424:ALA:HA	1.55	0.71
1:Z:108:PRO:O	1:Z:485:LYS:HD3	1.90	0.71
1:J:36:HIS:CE1	1:0:34:VAL:CG2	2.72	0.71
1:0:70:ASP:O	1:0:503:ARG:NH2	2.20	0.71
1:1:109:TRP:CZ3	1:1:485:LYS:CB	2.73	0.71
1:7:498:GLY:O	1:7:502:SER:HB2	1.90	0.71
1:A:424:ALA:HA	1:G:94:ARG:HH11	1.55	0.71
1:B:108:PRO:O	1:B:485:LYS:HD3	1.90	0.71
1:C:332:GLY:HA2	1:C:353:GLN:HE22	1.56	0.71
1:D:34:VAL:CG2	1:F:36:HIS:CE1	89.55	0.71
1:D:565:ASN:OD1	1:D:566:TYR:N	2.24	0.71
1:E:565:ASN:OD1	1:E:566:TYR:N	2.24	0.71
1:G:308:ILE:HG23	1:G:309:ASN:HB3	1.73	0.71
1:G:565:ASN:OD1	1:G:566:TYR:N	2.24	0.71
1:H:109:TRP:CZ3	1:H:485:LYS:CB	2.73	0.71
1:H:565:ASN:OD1	1:H:566:TYR:N	2.24	0.71
1:J:379:TYR:HD2	1:J:392:GLU:HG3	1.56	0.71
1:J:109:TRP:CZ3	1:J:485:LYS:CB	2.73	0.71
1:L:109:TRP:CZ3	1:L:485:LYS:CB	2.73	0.71
1:L:308:ILE:HG23	1:L:309:ASN:HB3	1.73	0.71
1:L:565:ASN:OD1	1:L:566:TYR:N	2.24	0.71
1:C:94:ARG:HH11	1:M:424:ALA:HA	1.55	0.71
1:M:511:TRP:HE1	1:2:173:LEU:HD13	34.88	0.71
1:N:94:ARG:HH11	1:P:424:ALA:HA	27.60	0.71
1:Q:108:PRO:O	1:Q:485:LYS:HD3	1.90	0.71
1:T:346:GLY:HA2	1:V:284:ARG:HD2	101.92	0.71
1:V:332:GLY:HA2	1:V:353:GLN:HE22	1.56	0.71
1:U:424:ALA:HA	1:V:94:ARG:HH11	82.43	0.71
1:V:165:GLN:HE21	1:W:156:THR:HG21	9.01	0.71
1:W:379:TYR:HD2	1:W:392:GLU:HG3	1.56	0.71
1:Y:332:GLY:HA2	1:Y:353:GLN:HE22	1.56	0.71
1:J:34:VAL:CG2	1:Z:36:HIS:CE1	9.15	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:308:ILE:HG23	1:2:309:ASN:HB3	1.73	0.70
1:2:332:GLY:HA2	1:2:353:GLN:HE22	1.56	0.70
1:A:332:GLY:HA2	1:A:353:GLN:HE22	1.56	0.70
1:A:379:TYR:HD2	1:A:392:GLU:HG3	1.56	0.70
1:H:332:GLY:HA2	1:H:353:GLN:HE22	1.56	0.70
1:I:379:TYR:HD2	1:I:392:GLU:HG3	1.56	0.70
1:K:424:ALA:HA	1:O:94:ARG:HH11	1.55	0.70
1:M:379:TYR:HD2	1:M:392:GLU:HG3	1.56	0.70
1:N:424:ALA:HA	1:O:94:ARG:HH11	82.43	0.70
1:P:565:ASN:OD1	1:P:566:TYR:N	2.24	0.70
1:R:565:ASN:OD1	1:R:566:TYR:N	2.24	0.70
1:X:165:GLN:HE21	1:Y:156:THR:HG21	1.55	0.70
1:X:156:THR:HG21	1:Y:165:GLN:HE21	9.00	0.70
1:Y:565:ASN:OD1	1:Y:566:TYR:N	2.24	0.70
1:3:379:TYR:HD2	1:3:392:GLU:HG3	1.56	0.70
1:5:109:TRP:CZ3	1:5:485:LYS:CB	2.73	0.70
1:A:36:HIS:CE1	1:E:34:VAL:CA	2.74	0.70
1:E:332:GLY:HA2	1:E:353:GLN:HE22	1.56	0.70
1:H:108:PRO:O	1:H:485:LYS:HD3	1.91	0.70
1:F:34:VAL:CG2	1:H:36:HIS:CE1	90.31	0.70
1:I:565:ASN:OD1	1:I:566:TYR:N	2.24	0.70
1:L:108:PRO:O	1:L:485:LYS:HD3	1.90	0.70
1:M:34:VAL:CG2	1:2:36:HIS:CE1	2.73	0.70
1:P:37:SER:HG	1:Q:257:ARG:CG	1.91	0.70
1:T:565:ASN:OD1	1:T:566:TYR:N	2.24	0.70
1:V:565:ASN:OD1	1:V:566:TYR:N	2.24	0.70
1:G:165:GLN:HE21	1:W:156:THR:HG21	1.56	0.70
1:X:70:ASP:O	1:X:503:ARG:NH2	2.20	0.70
1:X:565:ASN:OD1	1:X:566:TYR:N	2.24	0.70
1:X:94:ARG:HH11	1:Z:424:ALA:HA	131.97	0.70
1:Y:94:ARG:HH11	1:6:424:ALA:HA	211.65	0.70
1:H:156:THR:HG21	1:Z:165:GLN:HE21	1.55	0.70
1:1:565:ASN:OD1	1:1:566:TYR:N	2.24	0.70
1:Y:156:THR:HG21	1:7:165:GLN:HE21	128.68	0.70
1:B:379:TYR:HD2	1:B:392:GLU:HG3	1.56	0.70
1:E:316:ARG:HH22	1:Q:98:ASN:CB	1.92	0.70
1:F:498:GLY:O	1:F:502:SER:HB2	1.90	0.70
1:F:94:ARG:HH11	1:Q:424:ALA:HA	1.55	0.70
1:G:109:TRP:CZ3	1:G:485:LYS:CB	2.73	0.70
1:K:165:GLN:HE21	1:S:156:THR:HG21	200.55	0.70
1:G:165:GLN:HE21	1:M:156:THR:HG21	199.36	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:108:PRO:O	1:N:485:LYS:HD3	1.90	0.70
1:O:108:PRO:O	1:O:485:LYS:HD3	1.90	0.70
1:O:565:ASN:OD1	1:O:566:TYR:N	2.24	0.70
1:S:332:GLY:HA2	1:S:353:GLN:HE22	1.56	0.70
1:R:94:ARG:HH11	1:U:424:ALA:HA	1.55	0.70
1:U:70:ASP:O	1:U:503:ARG:NH2	2.20	0.70
1:Y:498:GLY:O	1:Y:502:SER:HB2	1.90	0.70
1:Z:332:GLY:HA2	1:Z:353:GLN:HE22	1.56	0.70
1:O:109:TRP:CZ3	1:O:485:LYS:CB	2.73	0.70
1:4:379:TYR:HD2	1:4:392:GLU:HG3	1.56	0.70
1:6:70:ASP:O	1:6:503:ARG:NH2	2.20	0.70
1:A:565:ASN:OD1	1:A:566:TYR:N	2.24	0.70
1:B:565:ASN:OD1	1:B:566:TYR:N	2.24	0.70
1:C:565:ASN:OD1	1:C:566:TYR:N	2.24	0.70
1:J:36:HIS:CE1	1:K:34:VAL:CG2	86.68	0.70
1:K:565:ASN:OD1	1:K:566:TYR:N	2.24	0.70
1:K:165:GLN:HE21	1:L:156:THR:HG21	1.56	0.70
1:S:498:GLY:O	1:S:502:SER:HB2	1.90	0.70
1:V:379:TYR:HD2	1:V:392:GLU:HG3	1.56	0.70
1:X:89:GLN:HE21	1:X:229:GLN:HB2	1.57	0.70
1:Z:498:GLY:O	1:Z:502:SER:HB2	1.90	0.70
1:Z:156:THR:HG21	1:O:165:GLN:HE21	1.56	0.70
1:O:89:GLN:HE21	1:O:229:GLN:HB2	1.57	0.70
1:O:424:ALA:HA	1:7:94:ARG:HH11	1.55	0.70
1:2:89:GLN:HE21	1:2:229:GLN:HB2	1.57	0.70
1:3:109:TRP:CZ3	1:3:485:LYS:CB	2.73	0.70
1:3:565:ASN:OD1	1:3:566:TYR:N	2.24	0.70
1:4:256:LEU:HD11	1:4:262:TRP:HB2	1.74	0.70
1:4:565:ASN:OD1	1:4:566:TYR:N	2.24	0.70
1:B:36:HIS:CE1	1:C:34:VAL:HG23	9.62	0.70
1:D:89:GLN:HE21	1:D:229:GLN:HB2	1.57	0.70
1:D:379:TYR:HD2	1:D:392:GLU:HG3	1.56	0.70
1:D:424:ALA:HA	1:E:94:ARG:HH11	104.11	0.70
1:F:565:ASN:OD1	1:F:566:TYR:N	2.24	0.70
1:K:256:LEU:HD11	1:K:262:TRP:HB2	1.74	0.70
1:O:165:GLN:HE21	1:P:156:THR:HG21	1.56	0.70
1:P:89:GLN:HE21	1:P:229:GLN:HB2	1.57	0.70
1:Q:165:GLN:HE21	1:S:156:THR:HG21	1.56	0.70
1:Q:379:TYR:HD2	1:Q:392:GLU:HG3	1.56	0.70
1:R:156:THR:HG21	1:V:165:GLN:HE21	1.56	0.70
1:N:156:THR:HG21	1:S:165:GLN:HE21	123.47	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:89:GLN:HE21	1:S:229:GLN:HB2	1.57	0.70
1:V:94:ARG:HH11	1:X:424:ALA:HA	1.55	0.70
1:X:34:VAL:CG2	1:Y:36:HIS:CE1	9.50	0.70
1:1:498:GLY:O	1:1:502:SER:HB2	1.90	0.70
1:2:565:ASN:OD1	1:2:566:TYR:N	2.24	0.70
1:5:108:PRO:O	1:5:485:LYS:HD3	1.90	0.70
1:I:511:TRP:HE1	1:6:173:LEU:HD13	114.23	0.70
1:6:256:LEU:HD11	1:6:262:TRP:HB2	1.74	0.70
1:C:379:TYR:HD2	1:C:392:GLU:HG3	1.56	0.70
1:E:379:TYR:HD2	1:E:392:GLU:HG3	1.56	0.70
1:F:89:GLN:HE21	1:F:229:GLN:HB2	1.57	0.70
1:F:94:ARG:HH11	1:3:424:ALA:HA	173.00	0.70
1:H:165:GLN:HE21	1:I:156:THR:HG21	1.56	0.70
1:J:565:ASN:OD1	1:J:566:TYR:N	2.24	0.70
1:K:379:TYR:HD2	1:K:392:GLU:HG3	1.56	0.70
1:P:332:GLY:HA2	1:P:353:GLN:HE22	1.56	0.70
1:R:256:LEU:HD11	1:R:262:TRP:HB2	1.74	0.70
1:S:62:ARG:NH1	1:S:197:GLY:O	2.25	0.70
1:T:511:TRP:HE1	1:U:173:LEU:HD13	1.53	0.70
1:W:165:GLN:HE21	1:7:156:THR:HG21	194.82	0.70
1:W:109:TRP:CZ3	1:W:485:LYS:CB	2.73	0.70
1:X:109:TRP:CZ3	1:X:485:LYS:CB	2.73	0.70
1:X:498:GLY:O	1:X:502:SER:HB2	1.90	0.70
1:Z:256:LEU:HD11	1:Z:262:TRP:HB2	1.74	0.70
1:Z:565:ASN:OD1	1:Z:566:TYR:N	2.24	0.70
1:Z:34:VAL:CG2	1:0:36:HIS:CE1	2.73	0.70
1:1:108:PRO:O	1:1:485:LYS:HD3	1.90	0.70
1:1:379:TYR:HD2	1:1:392:GLU:HG3	1.56	0.70
1:2:283:GLN:HA	1:2:283:GLN:OE1	1.92	0.70
1:2:498:GLY:O	1:2:502:SER:HB2	1.90	0.70
1:J:424:ALA:HA	1:2:94:ARG:HH11	143.94	0.70
1:C:498:GLY:O	1:C:502:SER:HB2	1.90	0.70
1:D:62:ARG:NH1	1:D:197:GLY:O	2.25	0.70
1:E:256:LEU:HD11	1:E:262:TRP:HB2	1.74	0.70
1:F:156:THR:HG21	1:H:165:GLN:HE21	121.84	0.70
1:H:283:GLN:OE1	1:H:283:GLN:HA	1.92	0.70
1:H:34:VAL:CG2	1:Z:36:HIS:CE1	2.73	0.70
1:H:498:GLY:O	1:H:502:SER:HB2	1.90	0.70
1:L:89:GLN:HE21	1:L:229:GLN:HB2	1.57	0.70
1:M:283:GLN:OE1	1:M:283:GLN:HA	1.92	0.70
1:N:256:LEU:HD11	1:N:262:TRP:HB2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:34:VAL:CG2	1:S:36:HIS:CE1	93.33	0.70
1:O:62:ARG:NH1	1:O:197:GLY:O	2.25	0.70
1:O:379:TYR:HD2	1:O:392:GLU:HG3	1.56	0.70
1:P:498:GLY:O	1:P:502:SER:HB2	1.90	0.70
1:P:62:ARG:NH1	1:P:197:GLY:O	2.25	0.70
1:Q:89:GLN:HE21	1:Q:229:GLN:HB2	1.57	0.70
1:R:308:ILE:HG23	1:R:309:ASN:HB3	1.73	0.70
1:T:256:LEU:HD11	1:T:262:TRP:HB2	1.74	0.70
1:P:156:THR:HG21	1:U:165:GLN:HE21	125.95	0.70
1:U:379:TYR:HD2	1:U:392:GLU:HG3	1.56	0.70
1:V:156:THR:HG21	1:W:165:GLN:HE21	1.56	0.70
1:Y:89:GLN:HE21	1:Y:229:GLN:HB2	1.57	0.70
1:N:165:GLN:HE21	1:Z:156:THR:HG21	200.86	0.70
1:M:94:ARG:HH11	1:1:424:ALA:HA	1.55	0.70
1:U:165:GLN:HE21	1:4:156:THR:HG21	1.56	0.70
1:B:98:ASN:CB	1:5:316:ARG:HH22	236.19	0.70
1:A:89:GLN:HE21	1:A:229:GLN:HB2	1.57	0.70
1:A:62:ARG:NH1	1:A:197:GLY:O	2.25	0.70
1:B:62:ARG:NH1	1:B:197:GLY:O	2.25	0.70
1:C:256:LEU:HD11	1:C:262:TRP:HB2	1.74	0.70
1:E:498:GLY:O	1:E:502:SER:HB2	1.90	0.70
1:F:283:GLN:HA	1:F:283:GLN:OE1	1.92	0.70
1:G:283:GLN:OE1	1:G:283:GLN:HA	1.92	0.70
1:H:156:THR:HG21	1:L:165:GLN:HE21	125.95	0.70
1:H:256:LEU:HD11	1:H:262:TRP:HB2	1.74	0.70
1:I:256:LEU:HD11	1:I:262:TRP:HB2	1.74	0.70
1:I:283:GLN:HA	1:I:283:GLN:OE1	1.92	0.70
1:I:94:ARG:HH11	1:2:424:ALA:HA	211.65	0.70
1:J:108:PRO:O	1:J:485:LYS:HD3	1.90	0.70
1:Q:62:ARG:NH1	1:Q:197:GLY:O	2.25	0.70
1:R:89:GLN:HE21	1:R:229:GLN:HB2	1.57	0.70
1:U:256:LEU:HD11	1:U:262:TRP:HB2	1.74	0.70
1:O:165:GLN:HE21	1:V:156:THR:HG21	128.73	0.70
1:Y:256:LEU:HD11	1:Y:262:TRP:HB2	1.74	0.70
1:7:256:LEU:HD11	1:7:262:TRP:HB2	1.74	0.70
1:B:89:GLN:HE21	1:B:229:GLN:HB2	1.57	0.70
1:H:89:GLN:HE21	1:H:229:GLN:HB2	1.57	0.70
1:G:424:ALA:HA	1:H:94:ARG:HH11	82.44	0.70
1:K:62:ARG:NH1	1:K:197:GLY:O	2.25	0.70
1:M:62:ARG:NH1	1:M:197:GLY:O	2.25	0.70
1:L:424:ALA:HA	1:M:94:ARG:HH11	107.34	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:62:ARG:NH1	1:N:197:GLY:O	2.25	0.70
1:O:89:GLN:HE21	1:O:229:GLN:HB2	1.57	0.70
1:O:34:VAL:CG2	1:3:36:HIS:CE1	2.74	0.70
1:R:62:ARG:NH1	1:R:197:GLY:O	2.25	0.70
1:S:256:LEU:HD11	1:S:262:TRP:HB2	1.74	0.70
1:S:565:ASN:OD1	1:S:566:TYR:N	2.24	0.70
1:T:156:THR:HG21	1:X:165:GLN:HE21	125.95	0.70
1:T:283:GLN:HA	1:T:283:GLN:OE1	1.92	0.70
1:U:89:GLN:HE21	1:U:229:GLN:HB2	1.57	0.70
1:U:565:ASN:OD1	1:U:566:TYR:N	2.24	0.70
1:V:256:LEU:HD11	1:V:262:TRP:HB2	1.74	0.70
1:V:283:GLN:OE1	1:V:283:GLN:HA	1.92	0.70
1:W:498:GLY:O	1:W:502:SER:HB2	1.90	0.70
1:X:36:HIS:CE1	1:Y:34:VAL:CG2	2.74	0.70
1:Y:62:ARG:NH1	1:Y:197:GLY:O	2.25	0.70
1:6:308:ILE:HG23	1:6:309:ASN:HB3	1.73	0.70
1:A:34:VAL:CG2	1:E:36:HIS:CE1	9.49	0.70
1:C:424:ALA:HA	1:D:94:ARG:HH11	104.11	0.70
1:D:183:LEU:O	1:P:526:ARG:NH1	2.25	0.70
1:F:424:ALA:HA	1:T:94:ARG:HH11	167.18	0.70
1:F:165:GLN:HE21	1:G:156:THR:HG21	1.56	0.70
1:I:156:THR:HG21	1:1:165:GLN:HE21	128.68	0.70
1:K:156:THR:HG21	1:6:165:GLN:HE21	1.56	0.70
1:M:256:LEU:HD11	1:M:262:TRP:HB2	1.74	0.70
1:Y:308:ILE:HG23	1:Y:309:ASN:HB3	1.73	0.70
1:Z:283:GLN:HA	1:Z:283:GLN:OE1	1.92	0.70
1:Z:62:ARG:NH1	1:Z:197:GLY:O	2.25	0.70
1:0:498:GLY:O	1:0:502:SER:HB2	1.90	0.69
1:6:89:GLN:HE21	1:6:229:GLN:HB2	1.57	0.69
1:7:565:ASN:OD1	1:7:566:TYR:N	2.24	0.69
1:B:34:VAL:CG2	1:C:36:HIS:CE1	2.73	0.69
1:L:37:SER:HG	1:1:257:ARG:CG	1.91	0.69
1:N:98:ASN:CB	1:P:316:ARG:HH22	42.53	0.69
1:Q:183:LEU:O	1:S:526:ARG:NH1	88.38	0.69
1:U:308:ILE:HG23	1:U:309:ASN:HB3	1.73	0.69
1:W:89:GLN:HE21	1:W:229:GLN:HB2	1.57	0.69
1:Y:283:GLN:OE1	1:Y:283:GLN:HA	1.92	0.69
1:Z:89:GLN:HE21	1:Z:229:GLN:HB2	1.57	0.69
1:T:36:HIS:CE1	1:5:34:VAL:CG2	93.36	0.69
1:5:565:ASN:OD1	1:5:566:TYR:N	2.24	0.69
1:7:62:ARG:NH1	1:7:197:GLY:O	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:308:ILE:HG23	1:B:309:ASN:HB3	1.73	0.69
1:D:498:GLY:O	1:D:502:SER:HB2	1.90	0.69
1:E:62:ARG:NH1	1:E:197:GLY:O	2.25	0.69
1:F:379:TYR:HD2	1:F:392:GLU:HG3	1.56	0.69
1:G:89:GLN:HE21	1:G:229:GLN:HB2	1.57	0.69
1:I:498:GLY:O	1:I:502:SER:HB2	1.90	0.69
1:M:89:GLN:HE21	1:M:229:GLN:HB2	1.57	0.69
1:N:565:ASN:OD1	1:N:566:TYR:N	2.24	0.69
1:Q:565:ASN:OD1	1:Q:566:TYR:N	2.24	0.69
1:V:308:ILE:HG23	1:V:309:ASN:HB3	1.73	0.69
1:W:283:GLN:HA	1:W:283:GLN:OE1	1.92	0.69
1:0:565:ASN:OD1	1:0:566:TYR:N	2.24	0.69
1:3:108:PRO:O	1:3:485:LYS:HD3	1.91	0.69
1:3:62:ARG:NH1	1:3:197:GLY:O	2.25	0.69
1:4:308:ILE:HG23	1:4:309:ASN:HB3	1.73	0.69
1:X:156:THR:HG21	1:5:165:GLN:HE21	1.56	0.69
1:6:379:TYR:HD2	1:6:392:GLU:HG3	1.56	0.69
1:B:156:THR:HG21	1:C:165:GLN:HE21	1.56	0.69
1:B:37:SER:H	1:C:257:ARG:HG3	21.97	0.69
1:C:62:ARG:NH1	1:C:197:GLY:O	2.25	0.69
1:J:165:GLN:HE21	1:0:156:THR:HG21	1.56	0.69
1:J:62:ARG:NH1	1:J:197:GLY:O	2.25	0.69
1:J:89:GLN:HE21	1:J:229:GLN:HB2	1.57	0.69
1:K:89:GLN:HE21	1:K:229:GLN:HB2	1.57	0.69
1:M:498:GLY:O	1:M:502:SER:HB2	1.90	0.69
1:N:89:GLN:HE21	1:N:229:GLN:HB2	1.57	0.69
1:T:498:GLY:O	1:T:502:SER:HB2	1.90	0.69
1:U:316:ARG:HH22	1:V:98:ASN:CB	64.56	0.69
1:U:62:ARG:NH1	1:U:197:GLY:O	2.25	0.69
1:V:62:ARG:NH1	1:V:197:GLY:O	2.25	0.69
1:W:565:ASN:OD1	1:W:566:TYR:N	2.24	0.69
1:X:332:GLY:HA2	1:X:353:GLN:HE22	1.56	0.69
1:0:283:GLN:HA	1:0:283:GLN:OE1	1.92	0.69
1:0:332:GLY:HA2	1:0:353:GLN:HE22	1.56	0.69
1:2:379:TYR:HD2	1:2:392:GLU:HG3	1.56	0.69
1:4:89:GLN:HE21	1:4:229:GLN:HB2	1.57	0.69
1:6:565:ASN:OD1	1:6:566:TYR:N	2.24	0.69
1:A:308:ILE:HG23	1:A:309:ASN:HB3	1.73	0.69
1:B:34:VAL:CG2	1:4:36:HIS:CE1	155.02	0.69
1:C:165:GLN:HE21	1:T:156:THR:HG21	201.03	0.69
1:G:62:ARG:NH1	1:G:197:GLY:O	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:256:LEU:HD11	1:G:262:TRP:HB2	1.74	0.69
1:H:62:ARG:NH1	1:H:197:GLY:O	2.25	0.69
1:H:424:ALA:HA	1:W:94:ARG:HH11	1.55	0.69
1:L:62:ARG:NH1	1:L:197:GLY:O	2.25	0.69
1:O:256:LEU:HD11	1:O:262:TRP:HB2	1.74	0.69
1:U:283:GLN:HA	1:U:283:GLN:OE1	1.92	0.69
1:W:308:ILE:HG23	1:W:309:ASN:HB3	1.73	0.69
1:W:94:ARG:HH11	1:X:424:ALA:HA	82.44	0.69
1:Y:424:ALA:HA	1:Z:94:ARG:HH11	82.44	0.69
1:1:89:GLN:HE21	1:1:229:GLN:HB2	1.57	0.69
1:5:62:ARG:NH1	1:5:197:GLY:O	2.25	0.69
1:6:283:GLN:HA	1:6:283:GLN:OE1	1.92	0.69
1:B:256:LEU:HD11	1:B:262:TRP:HB2	1.74	0.69
1:D:283:GLN:HA	1:D:283:GLN:OE1	1.92	0.69
1:H:308:ILE:HG23	1:H:309:ASN:HB3	1.73	0.69
1:I:165:GLN:HE21	1:6:156:THR:HG21	124.56	0.69
1:L:256:LEU:HD11	1:L:262:TRP:HB2	1.74	0.69
1:R:283:GLN:OE1	1:R:283:GLN:HA	1.92	0.69
1:V:89:GLN:HE21	1:V:229:GLN:HB2	1.57	0.69
1:2:62:ARG:NH1	1:2:197:GLY:O	2.25	0.69
1:7:89:GLN:HE21	1:7:229:GLN:HB2	1.57	0.69
1:B:283:GLN:HA	1:B:283:GLN:OE1	1.92	0.69
1:F:256:LEU:HD11	1:F:262:TRP:HB2	1.74	0.69
1:E:183:LEU:O	1:F:526:ARG:NH1	2.25	0.69
1:G:332:GLY:HA2	1:G:353:GLN:HE22	1.56	0.69
1:I:89:GLN:HE21	1:I:229:GLN:HB2	1.57	0.69
1:K:36:HIS:CE1	1:L:34:VAL:CG2	2.73	0.69
1:O:548:ASN:OD1	1:O:549:ALA:N	2.26	0.69
1:O:526:ARG:NH1	1:P:183:LEU:O	38.17	0.69
1:P:283:GLN:HA	1:P:283:GLN:OE1	1.92	0.69
1:P:34:VAL:CG2	1:U:36:HIS:CE1	97.79	0.69
1:R:498:GLY:O	1:R:502:SER:HB2	1.90	0.69
1:T:526:ARG:NH1	1:3:183:LEU:O	2.25	0.69
1:A:165:GLN:HE21	1:U:156:THR:HG21	193.84	0.69
1:W:548:ASN:OD1	1:W:549:ALA:N	2.26	0.69
1:X:62:ARG:NH1	1:X:197:GLY:O	2.25	0.69
1:0:256:LEU:HD11	1:0:262:TRP:HB2	1.74	0.69
1:1:332:GLY:HA2	1:1:353:GLN:HE22	1.56	0.69
1:M:165:GLN:HE21	1:2:156:THR:HG21	9.00	0.69
1:2:256:LEU:HD11	1:2:262:TRP:HB2	1.74	0.69
1:3:89:GLN:HE21	1:3:229:GLN:HB2	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:283:GLN:HA	1:4:283:GLN:OE1	1.92	0.69
1:5:379:TYR:HD2	1:5:392:GLU:HG3	1.56	0.69
1:A:256:LEU:HD11	1:A:262:TRP:HB2	1.74	0.69
1:B:173:LEU:HD13	1:4:511:TRP:HE1	177.35	0.69
1:B:548:ASN:OD1	1:B:549:ALA:N	2.26	0.69
1:C:89:GLN:HE21	1:C:229:GLN:HB2	1.57	0.69
1:F:62:ARG:NH1	1:F:197:GLY:O	2.25	0.69
1:H:548:ASN:OD1	1:H:549:ALA:N	2.26	0.69
1:K:548:ASN:OD1	1:K:549:ALA:N	2.26	0.69
1:L:283:GLN:HA	1:L:283:GLN:OE1	1.92	0.69
1:L:548:ASN:OD1	1:L:549:ALA:N	2.26	0.69
1:M:548:ASN:OD1	1:M:549:ALA:N	2.26	0.69
1:N:283:GLN:OE1	1:N:283:GLN:HA	1.92	0.69
1:S:283:GLN:HA	1:S:283:GLN:OE1	1.92	0.69
1:T:165:GLN:HE21	1:U:156:THR:HG21	1.56	0.69
1:T:89:GLN:HE21	1:T:229:GLN:HB2	1.57	0.69
1:X:283:GLN:HA	1:X:283:GLN:OE1	1.92	0.69
1:S:165:GLN:HE21	1:3:156:THR:HG21	1.56	0.69
1:A:156:THR:HG21	1:E:165:GLN:HE21	8.98	0.69
1:E:89:GLN:HE21	1:E:229:GLN:HB2	1.57	0.69
1:E:283:GLN:HA	1:E:283:GLN:OE1	1.92	0.69
1:I:526:ARG:NH1	1:J:183:LEU:O	38.17	0.69
1:B:526:ARG:NH1	1:J:183:LEU:O	2.25	0.69
1:K:283:GLN:HA	1:K:283:GLN:OE1	1.92	0.69
1:T:62:ARG:NH1	1:T:197:GLY:O	2.25	0.69
1:X:256:LEU:HD11	1:X:262:TRP:HB2	1.74	0.69
1:I:62:ARG:NH1	1:I:197:GLY:O	2.25	0.69
1:B:33:GLY:CA	1:4:36:HIS:CE1	153.71	0.69
1:5:89:GLN:HE21	1:5:229:GLN:HB2	1.57	0.69
1:6:548:ASN:OD1	1:6:549:ALA:N	2.26	0.69
1:7:379:TYR:HD2	1:7:392:GLU:HG3	1.56	0.69
1:D:256:LEU:HD11	1:D:262:TRP:HB2	1.74	0.69
1:I:62:ARG:NH1	1:I:197:GLY:O	2.25	0.69
1:L:107:THR:HG22	1:L:209:TYR:O	1.93	0.69
1:P:256:LEU:HD11	1:P:262:TRP:HB2	1.74	0.69
1:Q:283:GLN:HA	1:Q:283:GLN:OE1	1.92	0.69
1:L:156:THR:HG21	1:R:165:GLN:HE21	196.61	0.69
1:U:548:ASN:OD1	1:U:549:ALA:N	2.26	0.69
1:V:107:THR:HG22	1:V:209:TYR:O	1.93	0.69
1:0:62:ARG:NH1	1:0:197:GLY:O	2.25	0.69
1:A:526:ARG:NH1	1:5:183:LEU:O	150.00	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:62:ARG:NH1	1:6:197:GLY:O	2.25	0.69
1:7:107:THR:HG22	1:7:209:TYR:O	1.93	0.69
1:7:283:GLN:OE1	1:7:283:GLN:HA	1.92	0.69
1:G:107:THR:HG22	1:G:209:TYR:O	1.93	0.69
1:G:548:ASN:OD1	1:G:549:ALA:N	2.26	0.69
1:A:183:LEU:O	1:I:526:ARG:NH1	2.25	0.69
1:J:283:GLN:OE1	1:J:283:GLN:HA	1.92	0.69
1:G:156:THR:HG21	1:N:165:GLN:HE21	194.82	0.69
1:N:526:ARG:NH1	1:O:183:LEU:O	47.91	0.69
1:R:107:THR:HG22	1:R:209:TYR:O	1.93	0.69
1:U:107:THR:HG22	1:U:209:TYR:O	1.93	0.69
1:W:107:THR:HG22	1:W:209:TYR:O	1.93	0.69
1:Y:107:THR:HG22	1:Y:209:TYR:O	1.93	0.69
1:2:107:THR:HG22	1:2:209:TYR:O	1.93	0.69
1:6:107:THR:HG22	1:6:209:TYR:O	1.93	0.69
1:D:107:THR:HG22	1:D:209:TYR:O	1.93	0.69
1:F:107:THR:HG22	1:F:209:TYR:O	1.93	0.69
1:G:526:ARG:NH1	1:H:183:LEU:O	47.91	0.69
1:J:156:THR:HG21	1:Z:165:GLN:HE21	9.67	0.69
1:J:548:ASN:OD1	1:J:549:ALA:N	2.26	0.69
1:Q:36:HIS:CE1	1:S:34:VAL:CG2	2.73	0.69
1:F:183:LEU:O	1:Q:526:ARG:NH1	2.26	0.69
1:V:548:ASN:OD1	1:V:549:ALA:N	2.26	0.69
1:X:548:ASN:OD1	1:X:549:ALA:N	2.26	0.69
1:N:36:HIS:CE1	1:Z:34:VAL:CG2	154.76	0.69
1:5:548:ASN:OD1	1:5:549:ALA:N	2.26	0.68
1:C:283:GLN:OE1	1:C:283:GLN:HA	1.92	0.68
1:D:526:ARG:NH1	1:E:183:LEU:O	88.39	0.68
1:L:526:ARG:NH1	1:M:183:LEU:O	75.93	0.68
1:M:107:THR:HG22	1:M:209:TYR:O	1.93	0.68
1:E:526:ARG:NH1	1:Q:183:LEU:O	2.26	0.68
1:Q:256:LEU:HD11	1:Q:262:TRP:HB2	1.74	0.68
1:S:548:ASN:OD1	1:S:549:ALA:N	2.26	0.68
1:T:526:ARG:NH1	1:U:183:LEU:O	38.17	0.68
1:W:256:LEU:HD11	1:W:262:TRP:HB2	1.74	0.68
1:0:548:ASN:OD1	1:0:549:ALA:N	2.26	0.68
1:1:283:GLN:OE1	1:1:283:GLN:HA	1.92	0.68
1:3:283:GLN:OE1	1:3:283:GLN:HA	1.92	0.68
1:5:283:GLN:HA	1:5:283:GLN:OE1	1.92	0.68
1:B:107:THR:HG22	1:B:209:TYR:O	1.93	0.68
1:D:548:ASN:OD1	1:D:549:ALA:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:107:THR:HG22	1:K:209:TYR:O	1.93	0.68
1:C:183:LEU:O	1:M:526:ARG:NH1	2.26	0.68
1:O:107:THR:HG22	1:O:209:TYR:O	1.93	0.68
1:P:548:ASN:OD1	1:P:549:ALA:N	2.26	0.68
1:2:548:ASN:OD1	1:2:549:ALA:N	2.26	0.68
1:7:548:ASN:OD1	1:7:549:ALA:N	2.26	0.68
1:A:526:ARG:NH1	1:G:183:LEU:O	2.25	0.68
1:H:386:ASP:HB2	1:H:552:LYS:HE3	1.76	0.68
1:J:256:LEU:HD11	1:J:262:TRP:HB2	1.74	0.68
1:N:183:LEU:O	1:P:526:ARG:NH1	46.64	0.68
1:Q:107:THR:HG22	1:Q:209:TYR:O	1.93	0.68
1:3:256:LEU:HD11	1:3:262:TRP:HB2	1.74	0.68
1:5:256:LEU:HD11	1:5:262:TRP:HB2	1.74	0.68
1:A:107:THR:HG22	1:A:209:TYR:O	1.93	0.68
1:B:386:ASP:HB2	1:B:552:LYS:HE3	1.76	0.68
1:E:107:THR:HG22	1:E:209:TYR:O	1.93	0.68
1:E:386:ASP:HB2	1:E:552:LYS:HE3	1.76	0.68
1:F:548:ASN:OD1	1:F:549:ALA:N	2.26	0.68
1:H:107:THR:HG22	1:H:209:TYR:O	1.93	0.68
1:B:98:ASN:CB	1:L:316:ARG:HH22	1.92	0.68
1:M:386:ASP:HB2	1:M:552:LYS:HE3	1.76	0.68
1:P:107:THR:HG22	1:P:209:TYR:O	1.93	0.68
1:P:386:ASP:HB2	1:P:552:LYS:HE3	1.76	0.68
1:X:386:ASP:HB2	1:X:552:LYS:HE3	1.76	0.68
1:0:386:ASP:HB2	1:0:552:LYS:HE3	1.76	0.68
1:1:256:LEU:HD11	1:1:262:TRP:HB2	1.74	0.68
1:4:107:THR:HG22	1:4:209:TYR:O	1.93	0.68
1:7:308:ILE:HG23	1:7:309:ASN:HB3	1.73	0.68
1:F:386:ASP:HB2	1:F:552:LYS:HE3	1.76	0.68
1:K:316:ARG:HH22	1:L:98:ASN:CB	80.16	0.68
1:L:386:ASP:HB2	1:L:552:LYS:HE3	1.76	0.68
1:O:283:GLN:HA	1:O:283:GLN:OE1	1.92	0.68
1:Q:548:ASN:OD1	1:Q:549:ALA:N	2.26	0.68
1:F:526:ARG:NH1	1:T:183:LEU:O	145.07	0.68
1:Y:548:ASN:OD1	1:Y:549:ALA:N	2.26	0.68
1:0:107:THR:HG22	1:0:209:TYR:O	1.93	0.68
1:0:92:GLN:OE1	1:0:228:ASN:ND2	2.27	0.68
1:2:386:ASP:HB2	1:2:552:LYS:HE3	1.76	0.68
1:5:332:GLY:HA2	1:5:353:GLN:HE22	1.56	0.68
1:A:283:GLN:OE1	1:A:283:GLN:HA	1.92	0.68
1:A:386:ASP:HB2	1:A:552:LYS:HE3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:183:LEU:O	1:2:526:ARG:NH1	149.26	0.68
1:N:107:THR:HG22	1:N:209:TYR:O	1.93	0.68
1:N:526:ARG:NH1	1:P:183:LEU:O	2.25	0.68
1:R:92:GLN:OE1	1:R:228:ASN:ND2	2.27	0.68
1:S:107:THR:HG22	1:S:209:TYR:O	1.93	0.68
1:O:37:SER:HG	1:V:257:ARG:HG2	113.74	0.68
1:W:92:GLN:OE1	1:W:228:ASN:ND2	2.27	0.68
1:X:107:THR:HG22	1:X:209:TYR:O	1.93	0.68
1:X:92:GLN:OE1	1:X:228:ASN:ND2	2.27	0.68
1:Y:92:GLN:OE1	1:Y:228:ASN:ND2	2.27	0.68
1:Z:107:THR:HG22	1:Z:209:TYR:O	1.93	0.68
1:Z:548:ASN:OD1	1:Z:549:ALA:N	2.26	0.68
1:4:62:ARG:NH1	1:4:197:GLY:O	2.25	0.68
1:6:92:GLN:OE1	1:6:228:ASN:ND2	2.27	0.68
1:A:316:ARG:HH22	1:G:98:ASN:CB	1.94	0.68
1:R:548:ASN:OD1	1:R:549:ALA:N	2.26	0.68
1:W:62:ARG:NH1	1:W:197:GLY:O	2.25	0.68
1:1:548:ASN:OD1	1:1:549:ALA:N	2.26	0.68
1:2:247:LEU:O	1:2:248:GLU:CB	2.42	0.68
1:5:107:THR:HG22	1:5:209:TYR:O	1.93	0.68
1:C:98:ASN:CB	1:E:316:ARG:HH22	131.67	0.68
1:I:548:ASN:OD1	1:I:549:ALA:N	2.26	0.68
1:J:526:ARG:NH1	1:L:183:LEU:O	2.26	0.68
1:N:548:ASN:OD1	1:N:549:ALA:N	2.26	0.68
1:R:183:LEU:O	1:U:526:ARG:NH1	2.26	0.68
1:R:386:ASP:HB2	1:R:552:LYS:HE3	1.76	0.68
1:U:92:GLN:OE1	1:U:228:ASN:ND2	2.27	0.68
1:W:386:ASP:HB2	1:W:552:LYS:HE3	1.76	0.68
1:Y:386:ASP:HB2	1:Y:552:LYS:HE3	1.76	0.68
1:C:548:ASN:OD1	1:C:549:ALA:N	2.26	0.68
1:C:386:ASP:HB2	1:C:552:LYS:HE3	1.76	0.68
1:E:548:ASN:OD1	1:E:549:ALA:N	2.26	0.68
1:F:247:LEU:O	1:F:248:GLU:CB	2.42	0.68
1:J:92:GLN:OE1	1:J:228:ASN:ND2	2.27	0.68
1:G:98:ASN:CB	1:O:316:ARG:HH22	202.70	0.68
1:R:526:ARG:NH1	1:S:183:LEU:O	2.26	0.68
1:T:386:ASP:HB2	1:T:552:LYS:HE3	1.76	0.68
1:T:548:ASN:OD1	1:T:549:ALA:N	2.26	0.68
1:2:336:PRO:HB3	1:2:432:TYR:O	1.94	0.68
1:3:548:ASN:OD1	1:3:549:ALA:N	2.26	0.68
1:3:92:GLN:OE1	1:3:228:ASN:ND2	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:336:PRO:HB3	1:7:432:TYR:O	1.94	0.68
1:A:548:ASN:OD1	1:A:549:ALA:N	2.26	0.68
1:I:386:ASP:HB2	1:I:552:LYS:HE3	1.76	0.68
1:Q:386:ASP:HB2	1:Q:552:LYS:HE3	1.76	0.68
1:Y:183:LEU:O	1:6:526:ARG:NH1	149.25	0.68
1:3:107:THR:HG22	1:3:209:TYR:O	1.93	0.67
1:5:386:ASP:HB2	1:5:552:LYS:HE3	1.76	0.67
1:C:92:GLN:OE1	1:C:228:ASN:ND2	2.27	0.67
1:D:386:ASP:HB2	1:D:552:LYS:HE3	1.76	0.67
1:F:336:PRO:HB3	1:F:432:TYR:O	1.95	0.67
1:I:92:GLN:OE1	1:I:228:ASN:ND2	2.27	0.67
1:J:107:THR:HG22	1:J:209:TYR:O	1.93	0.67
1:P:54:VAL:HB	1:P:520:ALA:HB3	1.77	0.67
1:V:54:VAL:HB	1:V:520:ALA:HB3	1.77	0.67
1:W:336:PRO:HB3	1:W:432:TYR:O	1.95	0.67
1:Y:526:ARG:NH1	1:Z:183:LEU:O	47.90	0.67
1:Z:92:GLN:OE1	1:Z:228:ASN:ND2	2.27	0.67
1:4:548:ASN:OD1	1:4:549:ALA:N	2.26	0.67
1:4:386:ASP:HB2	1:4:552:LYS:HE3	1.76	0.67
1:7:54:VAL:HB	1:7:520:ALA:HB3	1.77	0.67
1:A:92:GLN:OE1	1:A:228:ASN:ND2	2.27	0.67
1:A:54:VAL:HB	1:A:520:ALA:HB3	1.77	0.67
1:B:92:GLN:OE1	1:B:228:ASN:ND2	2.27	0.67
1:B:36:HIS:C	1:C:257:ARG:HD3	20.08	0.67
1:E:92:GLN:OE1	1:E:228:ASN:ND2	2.27	0.67
1:F:54:VAL:HB	1:F:520:ALA:HB3	1.77	0.67
1:O:54:VAL:HB	1:O:520:ALA:HB3	1.77	0.67
1:S:336:PRO:HB3	1:S:432:TYR:O	1.95	0.67
1:T:92:GLN:OE1	1:T:228:ASN:ND2	2.27	0.67
1:V:98:ASN:CB	1:X:316:ARG:HH22	1.92	0.67
1:C:316:ARG:HH22	1:1:98:ASN:CB	1.92	0.67
1:E:336:PRO:HB3	1:E:432:TYR:O	1.95	0.67
1:G:336:PRO:HB3	1:G:432:TYR:O	1.95	0.67
1:H:316:ARG:HH22	1:W:98:ASN:CB	1.92	0.67
1:H:336:PRO:HB3	1:H:432:TYR:O	1.95	0.67
1:J:316:ARG:HH22	1:2:98:ASN:CB	127.97	0.67
1:K:386:ASP:HB2	1:K:552:LYS:HE3	1.76	0.67
1:M:336:PRO:HB3	1:M:432:TYR:O	1.95	0.67
1:P:97:ILE:HG21	1:P:340:ILE:HD12	1.77	0.67
1:P:336:PRO:HB3	1:P:432:TYR:O	1.94	0.67
1:S:54:VAL:HB	1:S:520:ALA:HB3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:336:PRO:HB3	1:U:432:TYR:O	1.95	0.67
1:V:336:PRO:HB3	1:V:432:TYR:O	1.95	0.67
1:W:97:ILE:HG21	1:W:340:ILE:HD12	1.77	0.67
1:W:54:VAL:HB	1:W:520:ALA:HB3	1.77	0.67
1:W:526:ARG:NH1	1:Y:183:LEU:O	2.26	0.67
1:Z:336:PRO:HB3	1:Z:432:TYR:O	1.95	0.67
1:4:92:GLN:OE1	1:4:228:ASN:ND2	2.27	0.67
1:6:386:ASP:HB2	1:6:552:LYS:HE3	1.76	0.67
1:6:336:PRO:HB3	1:6:432:TYR:O	1.95	0.67
1:7:92:GLN:OE1	1:7:228:ASN:ND2	2.27	0.67
1:A:336:PRO:HB3	1:A:432:TYR:O	1.95	0.67
1:B:247:LEU:O	1:B:248:GLU:CB	2.42	0.67
1:B:54:VAL:HB	1:B:520:ALA:HB3	1.77	0.67
1:C:534:PRO:HG3	1:C:562:ALA:HB1	1.77	0.67
1:D:92:GLN:OE1	1:D:228:ASN:ND2	2.27	0.67
1:G:386:ASP:HB2	1:G:552:LYS:HE3	1.76	0.67
1:H:97:ILE:HG21	1:H:340:ILE:HD12	1.77	0.67
1:J:386:ASP:HB2	1:J:552:LYS:HE3	1.76	0.67
1:L:247:LEU:O	1:L:248:GLU:CB	2.42	0.67
1:L:97:ILE:HG21	1:L:340:ILE:HD12	1.77	0.67
1:M:97:ILE:HG21	1:M:340:ILE:HD12	1.77	0.67
1:Q:92:GLN:OE1	1:Q:228:ASN:ND2	2.27	0.67
1:R:339:GLN:HE22	1:U:435:THR:HG21	1.60	0.67
1:U:526:ARG:NH1	1:V:183:LEU:O	47.90	0.67
1:W:526:ARG:NH1	1:Z:183:LEU:O	84.36	0.67
1:J:257:ARG:CG	1:Z:37:SER:HG	24.72	0.67
1:1:534:PRO:HG3	1:1:562:ALA:HB1	1.77	0.67
1:3:96:THR:HG21	1:3:221:ILE:HG12	1.77	0.67
1:3:54:VAL:HB	1:3:520:ALA:HB3	1.77	0.67
1:A:435:THR:HG21	1:5:339:GLN:HE22	187.43	0.67
1:B:336:PRO:HB3	1:B:432:TYR:O	1.95	0.67
1:C:336:PRO:HB3	1:C:432:TYR:O	1.95	0.67
1:D:534:PRO:HG3	1:D:562:ALA:HB1	1.77	0.67
1:E:97:ILE:HG21	1:E:340:ILE:HD12	1.77	0.67
1:G:97:ILE:HG21	1:G:340:ILE:HD12	1.77	0.67
1:G:526:ARG:NH1	1:I:183:LEU:O	2.25	0.67
1:H:96:THR:HG21	1:H:221:ILE:HG12	1.77	0.67
1:J:96:THR:HG21	1:J:221:ILE:HG12	1.77	0.67
1:K:92:GLN:OE1	1:K:228:ASN:ND2	2.27	0.67
1:K:336:PRO:HB3	1:K:432:TYR:O	1.95	0.67
1:L:336:PRO:HB3	1:L:432:TYR:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:92:GLN:OE1	1:L:228:ASN:ND2	2.27	0.67
1:N:339:GLN:HE22	1:P:435:THR:HG21	14.89	0.67
1:H:435:THR:HG21	1:O:339:GLN:HE22	214.51	0.67
1:O:336:PRO:HB3	1:O:432:TYR:O	1.95	0.67
1:P:92:GLN:OE1	1:P:228:ASN:ND2	2.27	0.67
1:R:97:ILE:HG21	1:R:340:ILE:HD12	1.77	0.67
1:S:92:GLN:OE1	1:S:228:ASN:ND2	2.27	0.67
1:S:386:ASP:HB2	1:S:552:LYS:HE3	1.76	0.67
1:U:282:SER:HB3	1:U:403:GLY:HA2	1.77	0.67
1:U:386:ASP:HB2	1:U:552:LYS:HE3	1.76	0.67
1:V:386:ASP:HB2	1:V:552:LYS:HE3	1.76	0.67
1:V:92:GLN:OE1	1:V:228:ASN:ND2	2.27	0.67
1:Y:339:GLN:HE22	1:6:435:THR:HG21	189.05	0.67
1:Z:54:VAL:HB	1:Z:520:ALA:HB3	1.76	0.67
1:Z:386:ASP:HB2	1:Z:552:LYS:HE3	1.76	0.67
1:K:526:ARG:NH1	1:0:183:LEU:O	2.25	0.67
1:C:435:THR:HG21	1:1:339:GLN:HE22	1.60	0.67
1:1:336:PRO:HB3	1:1:432:TYR:O	1.95	0.67
1:5:336:PRO:HB3	1:5:432:TYR:O	1.95	0.67
1:A:534:PRO:HG3	1:A:562:ALA:HB1	1.77	0.67
1:C:107:THR:HG22	1:C:209:TYR:O	1.93	0.67
1:B:36:HIS:CE1	1:C:33:GLY:C	10.52	0.67
1:C:96:THR:HG21	1:C:221:ILE:HG12	1.77	0.67
1:D:54:VAL:HB	1:D:520:ALA:HB3	1.77	0.67
1:E:339:GLN:HE22	1:F:435:THR:HG21	1.60	0.67
1:E:96:THR:HG21	1:E:221:ILE:HG12	1.77	0.67
1:G:54:VAL:HB	1:G:520:ALA:HB3	1.77	0.67
1:I:107:THR:HG22	1:I:209:TYR:O	1.93	0.67
1:I:336:PRO:HB3	1:I:432:TYR:O	1.94	0.67
1:J:336:PRO:HB3	1:J:432:TYR:O	1.95	0.67
1:J:54:VAL:HB	1:J:520:ALA:HB3	1.77	0.67
1:L:435:THR:HG21	1:M:339:GLN:HE22	86.84	0.67
1:N:92:GLN:OE1	1:N:228:ASN:ND2	2.27	0.67
1:N:336:PRO:HB3	1:N:432:TYR:O	1.95	0.67
1:O:435:THR:HG21	1:P:339:GLN:HE22	73.35	0.67
1:E:435:THR:HG21	1:Q:339:GLN:HE22	1.60	0.67
1:R:336:PRO:HB3	1:R:432:TYR:O	1.94	0.67
1:U:534:PRO:HG3	1:U:562:ALA:HB1	1.77	0.67
1:H:435:THR:HG21	1:W:339:GLN:HE22	1.60	0.67
1:W:339:GLN:HE22	1:X:435:THR:HG21	76.58	0.67
1:W:96:THR:HG21	1:W:221:ILE:HG12	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:97:ILE:HG21	1:Y:340:ILE:HD12	1.77	0.67
1:O:316:ARG:HH22	1:7:98:ASN:CB	1.92	0.67
1:F:98:ASN:CB	1:3:316:ARG:HH22	165.58	0.67
1:3:336:PRO:HB3	1:3:432:TYR:O	1.95	0.67
1:3:97:ILE:HG21	1:3:340:ILE:HD12	1.77	0.67
1:6:247:LEU:O	1:6:248:GLU:CB	2.42	0.67
1:A:282:SER:HB3	1:A:403:GLY:HA2	1.77	0.67
1:B:37:SER:HG	1:C:257:ARG:CG	24.75	0.67
1:B:36:HIS:CE1	1:C:34:VAL:CG2	9.49	0.67
1:F:96:THR:HG21	1:F:221:ILE:HG12	1.77	0.67
1:F:37:SER:HG	1:G:257:ARG:HG2	0.86	0.67
1:G:435:THR:HG21	1:H:339:GLN:HE22	76.59	0.67
1:G:92:GLN:OE1	1:G:228:ASN:ND2	2.27	0.67
1:J:97:ILE:HG21	1:J:340:ILE:HD12	1.77	0.67
1:K:54:VAL:HB	1:K:520:ALA:HB3	1.77	0.67
1:L:68:MET:HA	1:L:69:SER:HB3	1.77	0.67
1:M:534:PRO:HG3	1:M:562:ALA:HB1	1.77	0.67
1:M:96:THR:HG21	1:M:221:ILE:HG12	1.77	0.67
1:D:435:THR:HG21	1:N:339:GLN:HE22	1.60	0.67
1:Q:282:SER:HB3	1:Q:403:GLY:HA2	1.77	0.67
1:Z:534:PRO:HG3	1:Z:562:ALA:HB1	1.77	0.67
1:1:96:THR:HG21	1:1:221:ILE:HG12	1.77	0.67
1:M:98:ASN:CB	1:1:316:ARG:HH22	1.92	0.67
1:2:97:ILE:HG21	1:2:340:ILE:HD12	1.77	0.67
1:X:183:LEU:O	1:4:526:ARG:NH1	2.25	0.67
1:6:68:MET:HA	1:6:69:SER:HB3	1.77	0.67
1:7:96:THR:HG21	1:7:221:ILE:HG12	1.77	0.67
1:B:49:TYR:HB3	1:E:49:TYR:HB3	84.98	0.67
1:E:534:PRO:HG3	1:E:562:ALA:HB1	1.77	0.67
1:G:68:MET:HA	1:G:69:SER:HB3	1.77	0.67
1:B:435:THR:HG21	1:J:339:GLN:HE22	1.60	0.67
1:K:339:GLN:HE22	1:M:435:THR:HG21	134.18	0.67
1:C:339:GLN:HE22	1:M:435:THR:HG21	1.60	0.67
1:M:54:VAL:HB	1:M:520:ALA:HB3	1.77	0.67
1:N:282:SER:HB3	1:N:403:GLY:HA2	1.77	0.67
1:N:97:ILE:HG21	1:N:340:ILE:HD12	1.77	0.67
1:O:534:PRO:HG3	1:O:562:ALA:HB1	1.77	0.67
1:O:96:THR:HG21	1:O:221:ILE:HG12	1.77	0.67
1:P:534:PRO:HG3	1:P:562:ALA:HB1	1.77	0.67
1:P:68:MET:HA	1:P:69:SER:HB3	1.77	0.67
1:Q:435:THR:HG21	1:R:339:GLN:HE22	76.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:54:VAL:HB	1:Q:520:ALA:HB3	1.77	0.67
1:T:107:THR:HG22	1:T:209:TYR:O	1.93	0.67
1:T:336:PRO:HB3	1:T:432:TYR:O	1.95	0.67
1:T:54:VAL:HB	1:T:520:ALA:HB3	1.77	0.67
1:T:534:PRO:HG3	1:T:562:ALA:HB1	1.77	0.67
1:T:96:THR:HG21	1:T:221:ILE:HG12	1.77	0.67
1:U:247:LEU:O	1:U:248:GLU:CB	2.42	0.67
1:U:68:MET:HA	1:U:69:SER:HB3	1.77	0.67
1:V:96:THR:HG21	1:V:221:ILE:HG12	1.77	0.67
1:W:98:ASN:CB	1:X:316:ARG:HH22	64.57	0.67
1:X:97:ILE:HG21	1:X:340:ILE:HD12	1.77	0.67
1:Y:54:VAL:HB	1:Y:520:ALA:HB3	1.77	0.67
1:Y:534:PRO:HG3	1:Y:562:ALA:HB1	1.77	0.67
1:1:107:THR:HG22	1:1:209:TYR:O	1.93	0.67
1:1:97:ILE:HG21	1:1:340:ILE:HD12	1.77	0.67
1:1:54:VAL:HB	1:1:520:ALA:HB3	1.77	0.67
1:I:339:GLN:HE22	1:2:435:THR:HG21	189.06	0.67
1:3:282:SER:HB3	1:3:403:GLY:HA2	1.77	0.67
1:A:68:MET:HA	1:A:69:SER:HB3	1.77	0.67
1:B:257:ARG:HD2	1:4:36:HIS:C	162.52	0.67
1:C:339:GLN:HE22	1:E:435:THR:HG21	128.05	0.67
1:D:96:THR:HG21	1:D:221:ILE:HG12	1.77	0.67
1:E:68:MET:HA	1:E:69:SER:HB3	1.77	0.67
1:F:97:ILE:HG21	1:F:340:ILE:HD12	1.77	0.67
1:F:435:THR:HG21	1:T:339:GLN:HE22	145.72	0.67
1:H:92:GLN:OE1	1:H:228:ASN:ND2	2.27	0.67
1:A:98:ASN:CB	1:I:316:ARG:HH22	1.92	0.67
1:I:54:VAL:HB	1:I:520:ALA:HB3	1.77	0.67
1:I:96:THR:HG21	1:I:221:ILE:HG12	1.77	0.67
1:K:534:PRO:HG3	1:K:562:ALA:HB1	1.77	0.67
1:Q:97:ILE:HG21	1:Q:340:ILE:HD12	1.77	0.67
1:Q:96:THR:HG21	1:Q:221:ILE:HG12	1.77	0.67
1:S:534:PRO:HG3	1:S:562:ALA:HB1	1.77	0.67
1:T:183:LEU:O	1:V:526:ARG:NH1	77.61	0.67
1:R:98:ASN:CB	1:U:316:ARG:HH22	1.92	0.67
1:W:316:ARG:HH22	1:Z:98:ASN:CB	73.17	0.67
1:X:534:PRO:HG3	1:X:562:ALA:HB1	1.77	0.67
1:Y:435:THR:HG21	1:Z:339:GLN:HE22	76.58	0.67
1:Y:96:THR:HG21	1:Y:221:ILE:HG12	1.77	0.67
1:O:534:PRO:HG3	1:O:562:ALA:HB1	1.77	0.67
1:4:336:PRO:HB3	1:4:432:TYR:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:435:THR:HG21	1:7:339:GLN:HE22	1.60	0.67
1:B:534:PRO:HG3	1:B:562:ALA:HB1	1.77	0.67
1:B:36:HIS:C	1:C:257:ARG:HD2	21.36	0.67
1:C:97:ILE:HG21	1:C:340:ILE:HD12	1.77	0.67
1:C:54:VAL:HB	1:C:520:ALA:HB3	1.77	0.67
1:D:435:THR:HG21	1:E:339:GLN:HE22	89.63	0.67
1:H:526:ARG:NH1	1:O:183:LEU:O	162.17	0.67
1:H:534:PRO:HG3	1:H:562:ALA:HB1	1.77	0.67
1:I:534:PRO:HG3	1:I:562:ALA:HB1	1.77	0.67
1:J:282:SER:HB3	1:J:403:GLY:HA2	1.77	0.67
1:J:68:MET:HA	1:J:69:SER:HB3	1.77	0.67
1:J:435:THR:HG21	1:L:339:GLN:HE22	1.60	0.67
1:L:96:THR:HG21	1:L:221:ILE:HG12	1.77	0.67
1:M:183:LEU:O	1:I:526:ARG:NH1	2.25	0.67
1:R:435:THR:HG21	1:S:339:GLN:HE22	1.60	0.67
1:R:54:VAL:HB	1:R:520:ALA:HB3	1.77	0.67
1:S:96:THR:HG21	1:S:221:ILE:HG12	1.77	0.67
1:T:68:MET:HA	1:T:69:SER:HB3	1.77	0.67
1:T:435:THR:HG21	1:U:339:GLN:HE22	73.36	0.67
1:Z:96:THR:HG21	1:Z:221:ILE:HG12	1.77	0.67
1:5:68:MET:HA	1:5:69:SER:HB3	1.77	0.66
1:5:97:ILE:HG21	1:5:340:ILE:HD12	1.77	0.66
1:A:435:THR:HG21	1:G:339:GLN:HE22	1.59	0.66
1:B:339:GLN:HE22	1:L:435:THR:HG21	1.60	0.66
1:B:97:ILE:HG21	1:B:340:ILE:HD12	1.77	0.66
1:B:96:THR:HG21	1:B:221:ILE:HG12	1.77	0.66
1:F:92:GLN:OE1	1:F:228:ASN:ND2	2.27	0.66
1:I:97:ILE:HG21	1:I:340:ILE:HD12	1.77	0.66
1:L:534:PRO:HG3	1:L:562:ALA:HB1	1.77	0.66
1:N:107:THR:HG21	1:N:209:TYR:HD2	1.61	0.66
1:N:54:VAL:HB	1:N:520:ALA:HB3	1.77	0.66
1:O:97:ILE:HG21	1:O:340:ILE:HD12	1.77	0.66
1:R:282:SER:HB3	1:R:403:GLY:HA2	1.77	0.66
1:V:339:GLN:HE22	1:X:435:THR:HG21	1.60	0.66
1:Y:282:SER:HB3	1:Y:403:GLY:HA2	1.77	0.66
1:Y:336:PRO:HB3	1:Y:432:TYR:O	1.95	0.66
1:H:183:LEU:O	1:Y:526:ARG:NH1	2.26	0.66
1:2:68:MET:HA	1:2:69:SER:HB3	1.77	0.66
1:4:534:PRO:HG3	1:4:562:ALA:HB1	1.77	0.66
1:Y:98:ASN:CB	1:6:316:ARG:HH22	185.93	0.66
1:K:339:GLN:HE22	1:7:435:THR:HG21	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:68:MET:HA	1:B:69:SER:HB3	1.77	0.66
1:C:526:ARG:NH1	1:D:183:LEU:O	88.38	0.66
1:F:107:THR:HG21	1:F:209:TYR:HD2	1.61	0.66
1:I:107:THR:HG21	1:I:209:TYR:HD2	1.61	0.66
1:I:68:MET:HA	1:I:69:SER:HB3	1.77	0.66
1:K:107:THR:HG21	1:K:209:TYR:HD2	1.61	0.66
1:K:96:THR:HG21	1:K:221:ILE:HG12	1.77	0.66
1:O:107:THR:HG21	1:O:209:TYR:HD2	1.61	0.66
1:O:386:ASP:HB2	1:O:552:LYS:HE3	1.76	0.66
1:Q:336:PRO:HB3	1:Q:432:TYR:O	1.95	0.66
1:R:107:THR:HG21	1:R:209:TYR:HD2	1.61	0.66
1:T:97:ILE:HG21	1:T:340:ILE:HD12	1.77	0.66
1:V:282:SER:HB3	1:V:403:GLY:HA2	1.77	0.66
1:V:435:THR:HG21	1:4:339:GLN:HE22	1.60	0.66
1:X:282:SER:HB3	1:X:403:GLY:HA2	1.77	0.66
1:2:92:GLN:OE1	1:2:228:ASN:ND2	2.27	0.66
1:4:97:ILE:HG21	1:4:340:ILE:HD12	1.77	0.66
1:7:68:MET:HA	1:7:69:SER:HB3	1.77	0.66
1:C:316:ARG:HH22	1:D:98:ASN:CB	100.45	0.66
1:D:107:THR:HG21	1:D:209:TYR:HD2	1.61	0.66
1:D:336:PRO:HB3	1:D:432:TYR:O	1.95	0.66
1:F:68:MET:HA	1:F:69:SER:HB3	1.77	0.66
1:K:97:ILE:HG21	1:K:340:ILE:HD12	1.77	0.66
1:L:107:THR:HG21	1:L:209:TYR:HD2	1.61	0.66
1:M:107:THR:HG21	1:M:209:TYR:HD2	1.61	0.66
1:K:183:LEU:O	1:M:526:ARG:NH1	116.47	0.66
1:N:68:MET:HA	1:N:69:SER:HB3	1.77	0.66
1:O:92:GLN:OE1	1:O:228:ASN:ND2	2.27	0.66
1:R:96:THR:HG21	1:R:221:ILE:HG12	1.77	0.66
1:T:107:THR:HG21	1:T:209:TYR:HD2	1.61	0.66
1:U:97:ILE:HG21	1:U:340:ILE:HD12	1.77	0.66
1:W:282:SER:HB3	1:W:403:GLY:HA2	1.77	0.66
1:0:282:SER:HB3	1:0:403:GLY:HA2	1.77	0.66
1:1:68:MET:HA	1:1:69:SER:HB3	1.77	0.66
1:B:34:VAL:CA	1:4:36:HIS:CE1	156.36	0.66
1:6:282:SER:HB3	1:6:403:GLY:HA2	1.77	0.66
1:7:337:GLU:HB2	1:7:338:TRP:HA	1.78	0.66
1:A:97:ILE:HG21	1:A:340:ILE:HD12	1.77	0.66
1:A:183:LEU:O	1:B:526:ARG:NH1	38.18	0.66
1:C:68:MET:HA	1:C:69:SER:HB3	1.77	0.66
1:D:282:SER:HB3	1:D:403:GLY:HA2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:68:MET:HA	1:R:69:SER:HB3	1.77	0.66
1:S:97:ILE:HG21	1:S:340:ILE:HD12	1.77	0.66
1:T:339:GLN:HE22	1:V:435:THR:HG21	123.98	0.66
1:T:282:SER:HB3	1:T:403:GLY:HA2	1.77	0.66
1:V:183:LEU:O	1:X:526:ARG:NH1	2.25	0.66
1:1:92:GLN:OE1	1:1:228:ASN:ND2	2.27	0.66
1:5:92:GLN:OE1	1:5:228:ASN:ND2	2.27	0.66
1:7:282:SER:HB3	1:7:403:GLY:HA2	1.77	0.66
1:A:49:TYR:HB3	1:F:49:TYR:HB3	1.77	0.66
1:D:337:GLU:HB2	1:D:338:TRP:HA	1.78	0.66
1:F:534:PRO:HG3	1:F:562:ALA:HB1	1.77	0.66
1:G:107:THR:HG21	1:G:209:TYR:HD2	1.61	0.66
1:G:337:GLU:HB2	1:G:338:TRP:HA	1.78	0.66
1:H:526:ARG:NH1	1:W:183:LEU:O	2.25	0.66
1:I:282:SER:HB3	1:I:403:GLY:HA2	1.77	0.66
1:M:337:GLU:HB2	1:M:338:TRP:HA	1.78	0.66
1:M:282:SER:HB3	1:M:403:GLY:HA2	1.77	0.66
1:N:386:ASP:HB2	1:N:552:LYS:HE3	1.76	0.66
1:P:282:SER:HB3	1:P:403:GLY:HA2	1.77	0.66
1:V:337:GLU:HB2	1:V:338:TRP:HA	1.78	0.66
1:V:68:MET:HA	1:V:69:SER:HB3	1.77	0.66
1:W:316:ARG:HH22	1:Y:98:ASN:CB	1.92	0.66
1:W:183:LEU:O	1:X:526:ARG:NH1	47.91	0.66
1:X:96:THR:HG21	1:X:221:ILE:HG12	1.77	0.66
1:Y:68:MET:HA	1:Y:69:SER:HB3	1.77	0.66
1:Z:282:SER:HB3	1:Z:403:GLY:HA2	1.77	0.66
1:Z:97:ILE:HG21	1:Z:340:ILE:HD12	1.77	0.66
1:X:183:LEU:O	1:Z:526:ARG:NH1	77.61	0.66
1:0:96:THR:HG21	1:0:221:ILE:HG12	1.77	0.66
1:5:337:GLU:HB2	1:5:338:TRP:HA	1.78	0.66
1:5:534:PRO:HG3	1:5:562:ALA:HB1	1.77	0.66
1:6:97:ILE:HG21	1:6:340:ILE:HD12	1.77	0.66
1:0:526:ARG:NH1	1:7:183:LEU:O	2.25	0.66
1:7:386:ASP:HB2	1:7:552:LYS:HE3	1.76	0.66
1:D:150:ILE:HD11	1:D:174:LEU:HB2	1.78	0.66
1:D:97:ILE:HG21	1:D:340:ILE:HD12	1.77	0.66
1:A:36:HIS:CE1	1:E:34:VAL:CG2	2.76	0.66
1:E:282:SER:HB3	1:E:403:GLY:HA2	1.77	0.66
1:G:96:THR:HG21	1:G:221:ILE:HG12	1.77	0.66
1:G:435:THR:HG21	1:I:339:GLN:HE22	1.60	0.66
1:J:337:GLU:HB2	1:J:338:TRP:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:92:GLN:OE1	1:M:228:ASN:ND2	2.27	0.66
1:O:337:GLU:HB2	1:O:338:TRP:HA	1.78	0.66
1:O:282:SER:HB3	1:O:403:GLY:HA2	1.77	0.66
1:R:534:PRO:HG3	1:R:562:ALA:HB1	1.77	0.66
1:S:282:SER:HB3	1:S:403:GLY:HA2	1.77	0.66
1:T:316:ARG:HH22	1:U:98:ASN:CB	80.16	0.66
1:U:435:THR:HG21	1:V:339:GLN:HE22	76.58	0.66
1:X:107:THR:HG21	1:X:209:TYR:HD2	1.61	0.66
1:0:107:THR:HG21	1:0:209:TYR:HD2	1.61	0.66
1:0:336:PRO:HB3	1:0:432:TYR:O	1.95	0.66
1:5:150:ILE:HD11	1:5:174:LEU:HB2	1.78	0.66
1:A:247:LEU:O	1:A:248:GLU:CB	2.42	0.66
1:B:150:ILE:HD11	1:B:174:LEU:HB2	1.78	0.66
1:H:150:ILE:HD11	1:H:174:LEU:HB2	1.78	0.66
1:A:339:GLN:HE22	1:I:435:THR:HG21	1.60	0.66
1:J:150:ILE:HD11	1:J:174:LEU:HB2	1.78	0.66
1:J:534:PRO:HG3	1:J:562:ALA:HB1	1.77	0.66
1:K:337:GLU:HB2	1:K:338:TRP:HA	1.78	0.66
1:L:150:ILE:HD11	1:L:174:LEU:HB2	1.78	0.66
1:M:150:ILE:HD11	1:M:174:LEU:HB2	1.78	0.66
1:D:526:ARG:NH1	1:N:183:LEU:O	2.25	0.66
1:N:337:GLU:HB2	1:N:338:TRP:HA	1.78	0.66
1:P:107:THR:HG21	1:P:209:TYR:HD2	1.61	0.66
1:S:107:THR:HG21	1:S:209:TYR:HD2	1.61	0.66
1:S:68:MET:HA	1:S:69:SER:HB3	1.77	0.66
1:U:337:GLU:HB2	1:U:338:TRP:HA	1.78	0.66
1:U:54:VAL:HB	1:U:520:ALA:HB3	1.77	0.66
1:X:337:GLU:HB2	1:X:338:TRP:HA	1.78	0.66
1:X:336:PRO:HB3	1:X:432:TYR:O	1.95	0.66
1:Y:150:ILE:HD11	1:Y:174:LEU:HB2	1.78	0.66
1:Z:150:ILE:HD11	1:Z:174:LEU:HB2	1.78	0.66
1:W:49:TYR:HB3	1:0:49:TYR:HB3	101.36	0.66
1:1:107:THR:HG21	1:1:209:TYR:HD2	1.61	0.66
1:1:282:SER:HB3	1:1:403:GLY:HA2	1.77	0.66
1:2:282:SER:HB3	1:2:403:GLY:HA2	1.77	0.66
1:3:534:PRO:HG3	1:3:562:ALA:HB1	1.77	0.66
1:4:107:THR:HG21	1:4:209:TYR:HD2	1.61	0.66
1:7:534:PRO:HG3	1:7:562:ALA:HB1	1.77	0.66
1:A:150:ILE:HD11	1:A:174:LEU:HB2	1.78	0.66
1:C:107:THR:HG21	1:C:209:TYR:HD2	1.61	0.66
1:E:107:THR:HG21	1:E:209:TYR:HD2	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:337:GLU:HB2	1:F:338:TRP:HA	1.78	0.66
1:F:357:GLN:HB3	1:F:362:SER:HB3	1.78	0.66
1:I:247:LEU:O	1:I:248:GLU:CB	2.42	0.66
1:K:282:SER:HB3	1:K:403:GLY:HA2	1.77	0.66
1:K:68:MET:HA	1:K:69:SER:HB3	1.77	0.66
1:L:54:VAL:HB	1:L:520:ALA:HB3	1.77	0.66
1:W:49:TYR:HB3	1:X:49:TYR:HB3	1.78	0.66
1:Y:107:THR:HG21	1:Y:209:TYR:HD2	1.61	0.66
1:Z:107:THR:HG21	1:Z:209:TYR:HD2	1.61	0.66
1:0:337:GLU:HB2	1:0:338:TRP:HA	1.78	0.66
1:3:337:GLU:HB2	1:3:338:TRP:HA	1.78	0.66
1:K:183:LEU:O	1:7:526:ARG:NH1	2.25	0.66
1:A:337:GLU:HB2	1:A:338:TRP:HA	1.78	0.66
1:B:94:ARG:NH2	1:5:429:ARG:HH12	252.03	0.66
1:C:150:ILE:HD11	1:C:174:LEU:HB2	1.78	0.66
1:C:282:SER:HB3	1:C:403:GLY:HA2	1.77	0.66
1:E:150:ILE:HD11	1:E:174:LEU:HB2	1.78	0.66
1:E:54:VAL:HB	1:E:520:ALA:HB3	1.77	0.66
1:H:282:SER:HB3	1:H:403:GLY:HA2	1.77	0.66
1:I:435:THR:HG21	1:J:339:GLN:HE22	73.36	0.66
1:I:323:SER:HG	1:J:98:ASN:HA	74.91	0.66
1:N:96:THR:HG21	1:N:221:ILE:HG12	1.77	0.66
1:O:357:GLN:HB3	1:O:362:SER:HB3	1.78	0.66
1:D:98:ASN:CB	1:P:316:ARG:HH22	1.92	0.66
1:Q:337:GLU:HB2	1:Q:338:TRP:HA	1.78	0.66
1:Q:98:ASN:CB	1:S:316:ARG:HH22	100.45	0.66
1:Q:339:GLN:HE22	1:S:435:THR:HG21	89.63	0.66
1:T:435:THR:HG21	1:3:339:GLN:HE22	1.60	0.66
1:U:107:THR:HG21	1:U:209:TYR:HD2	1.61	0.66
1:V:247:LEU:O	1:V:248:GLU:CB	2.42	0.66
1:V:534:PRO:HG3	1:V:562:ALA:HB1	1.77	0.66
1:X:68:MET:HA	1:X:69:SER:HB3	1.77	0.66
1:Z:68:MET:HA	1:Z:69:SER:HB3	1.77	0.66
1:2:54:VAL:HB	1:2:520:ALA:HB3	1.77	0.66
1:4:150:ILE:HD11	1:4:174:LEU:HB2	1.78	0.66
1:V:526:ARG:NH1	1:4:183:LEU:O	2.25	0.66
1:X:339:GLN:HE22	1:4:435:THR:HG21	1.60	0.66
1:5:107:THR:HG21	1:5:209:TYR:HD2	1.61	0.66
1:A:107:THR:HG21	1:A:209:TYR:HD2	1.61	0.66
1:F:339:GLN:HE22	1:3:435:THR:HG21	139.57	0.66
1:F:282:SER:HB3	1:F:403:GLY:HA2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:282:SER:HB3	1:G:403:GLY:HA2	1.77	0.66
1:H:107:THR:HG21	1:H:209:TYR:HD2	1.61	0.66
1:H:68:MET:HA	1:H:69:SER:HB3	1.77	0.66
1:J:526:ARG:NH1	1:2:183:LEU:O	118.32	0.66
1:L:357:GLN:HB3	1:L:362:SER:HB3	1.78	0.66
1:B:183:LEU:O	1:L:526:ARG:NH1	2.26	0.66
1:N:150:ILE:HD11	1:N:174:LEU:HB2	1.78	0.66
1:O:68:MET:HA	1:O:69:SER:HB3	1.77	0.66
1:Q:534:PRO:HG3	1:Q:562:ALA:HB1	1.77	0.66
1:R:150:ILE:HD11	1:R:174:LEU:HB2	1.78	0.66
1:R:357:GLN:HB3	1:R:362:SER:HB3	1.78	0.66
1:T:316:ARG:HH22	1:3:98:ASN:CB	1.92	0.66
1:U:357:GLN:HB3	1:U:362:SER:HB3	1.78	0.66
1:V:97:ILE:HG21	1:V:340:ILE:HD12	1.77	0.66
1:X:54:VAL:HB	1:X:520:ALA:HB3	1.77	0.66
1:Z:357:GLN:HB3	1:Z:362:SER:HB3	1.78	0.66
1:I:49:TYR:HB3	1:Z:49:TYR:HB3	84.99	0.66
1:K:435:THR:HG21	1:0:339:GLN:HE22	1.60	0.65
1:2:534:PRO:HG3	1:2:562:ALA:HB1	1.77	0.65
1:3:255:LEU:O	1:3:256:LEU:HD23	1.97	0.65
1:6:357:GLN:HB3	1:6:362:SER:HB3	1.78	0.65
1:7:107:THR:HG21	1:7:209:TYR:HD2	1.61	0.65
1:B:183:LEU:O	1:5:526:ARG:NH1	186.57	0.65
1:D:255:LEU:O	1:D:256:LEU:HD23	1.97	0.65
1:E:247:LEU:O	1:E:248:GLU:CB	2.42	0.65
1:G:247:LEU:O	1:G:248:GLU:CB	2.42	0.65
1:G:357:GLN:HB3	1:G:362:SER:HB3	1.78	0.65
1:H:247:LEU:O	1:H:248:GLU:CB	2.42	0.65
1:H:337:GLU:HB2	1:H:338:TRP:HA	1.78	0.65
1:J:255:LEU:O	1:J:256:LEU:HD23	1.97	0.65
1:L:282:SER:HB3	1:L:403:GLY:HA2	1.77	0.65
1:M:255:LEU:O	1:M:256:LEU:HD23	1.97	0.65
1:Q:526:ARG:NH1	1:R:183:LEU:O	47.90	0.65
1:T:247:LEU:O	1:T:248:GLU:CB	2.42	0.65
1:S:49:TYR:HB3	1:T:49:TYR:HB3	1.78	0.65
1:V:107:THR:HG21	1:V:209:TYR:HD2	1.61	0.65
1:V:150:ILE:HD11	1:V:174:LEU:HB2	1.78	0.65
1:X:247:LEU:O	1:X:248:GLU:CB	2.42	0.65
1:X:255:LEU:O	1:X:256:LEU:HD23	1.97	0.65
1:Y:337:GLU:HB2	1:Y:338:TRP:HA	1.78	0.65
1:Z:337:GLU:HB2	1:Z:338:TRP:HA	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:435:THR:HG21	1:Z:339:GLN:HE22	82.39	0.65
1:1:150:ILE:HD11	1:1:174:LEU:HB2	1.78	0.65
1:1:386:ASP:HB2	1:1:552:LYS:HE3	1.76	0.65
1:J:435:THR:HG21	1:2:339:GLN:HE22	134.84	0.65
1:3:386:ASP:HB2	1:3:552:LYS:HE3	1.76	0.65
1:4:68:MET:HA	1:4:69:SER:HB3	1.77	0.65
1:6:107:THR:HG21	1:6:209:TYR:HD2	1.61	0.65
1:6:255:LEU:O	1:6:256:LEU:HD23	1.97	0.65
1:6:89:GLN:HB3	1:6:90:ASP:HA	1.79	0.65
1:6:96:THR:HG21	1:6:221:ILE:HG12	1.77	0.65
1:7:150:ILE:HD11	1:7:174:LEU:HB2	1.78	0.65
1:A:284:ARG:NH2	1:G:100:SER:HA	2.11	0.65
1:A:96:THR:HG21	1:A:221:ILE:HG12	1.77	0.65
1:B:107:THR:HG21	1:B:209:TYR:HD2	1.61	0.65
1:B:282:SER:HB3	1:B:403:GLY:HA2	1.77	0.65
1:D:89:GLN:HB3	1:D:90:ASP:HA	1.79	0.65
1:E:89:GLN:HB3	1:E:90:ASP:HA	1.79	0.65
1:G:36:HIS:CE1	1:M:33:GLY:C	150.88	0.65
1:H:54:VAL:HB	1:H:520:ALA:HB3	1.77	0.65
1:H:89:GLN:HB3	1:H:90:ASP:HA	1.79	0.65
1:J:107:THR:HG21	1:J:209:TYR:HD2	1.61	0.65
1:K:150:ILE:HD11	1:K:174:LEU:HB2	1.78	0.65
1:K:435:THR:HG21	1:L:339:GLN:HE22	73.36	0.65
1:G:49:TYR:HB3	1:L:49:TYR:HB3	101.40	0.65
1:N:357:GLN:HB3	1:N:362:SER:HB3	1.78	0.65
1:N:435:THR:HG21	1:P:339:GLN:HE22	1.60	0.65
1:G:339:GLN:HE22	1:O:435:THR:HG21	188.91	0.65
1:P:89:GLN:HB3	1:P:90:ASP:HA	1.79	0.65
1:Q:255:LEU:O	1:Q:256:LEU:HD23	1.97	0.65
1:S:337:GLU:HB2	1:S:338:TRP:HA	1.78	0.65
1:S:357:GLN:HB3	1:S:362:SER:HB3	1.78	0.65
1:U:255:LEU:O	1:U:256:LEU:HD23	1.97	0.65
1:U:89:GLN:HB3	1:U:90:ASP:HA	1.79	0.65
1:W:107:THR:HG21	1:W:209:TYR:HD2	1.61	0.65
1:X:89:GLN:HB3	1:X:90:ASP:HA	1.79	0.65
1:W:435:THR:HG21	1:Y:339:GLN:HE22	1.60	0.65
1:Y:357:GLN:HB3	1:Y:362:SER:HB3	1.78	0.65
1:Y:89:GLN:HB3	1:Y:90:ASP:HA	1.79	0.65
1:0:97:ILE:HG21	1:0:340:ILE:HD12	1.77	0.65
1:0:89:GLN:HB3	1:0:90:ASP:HA	1.79	0.65
1:2:357:GLN:HB3	1:2:362:SER:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:96:THR:HG21	1:2:221:ILE:HG12	1.77	0.65
1:3:107:THR:HG21	1:3:209:TYR:HD2	1.61	0.65
1:4:54:VAL:HB	1:4:520:ALA:HB3	1.77	0.65
1:Z:435:THR:HG21	1:6:339:GLN:HE22	145.72	0.65
1:6:54:VAL:HB	1:6:520:ALA:HB3	1.77	0.65
1:C:89:GLN:HB3	1:C:90:ASP:HA	1.79	0.65
1:H:255:LEU:O	1:H:256:LEU:HD23	1.97	0.65
1:N:534:PRO:HG3	1:N:562:ALA:HB1	1.77	0.65
1:N:89:GLN:HB3	1:N:90:ASP:HA	1.78	0.65
1:P:96:THR:HG21	1:P:221:ILE:HG12	1.77	0.65
1:Q:109:TRP:CE3	1:Q:485:LYS:HB2	2.32	0.65
1:R:255:LEU:O	1:R:256:LEU:HD23	1.97	0.65
1:R:337:GLU:HB2	1:R:338:TRP:HA	1.78	0.65
1:S:255:LEU:O	1:S:256:LEU:HD23	1.97	0.65
1:S:89:GLN:HB3	1:S:90:ASP:HA	1.79	0.65
1:U:96:THR:HG21	1:U:221:ILE:HG12	1.77	0.65
1:X:339:GLN:HE22	1:Z:435:THR:HG21	123.98	0.65
1:Z:89:GLN:HB3	1:Z:90:ASP:HA	1.79	0.65
1:0:357:GLN:HB3	1:0:362:SER:HB3	1.78	0.65
1:3:109:TRP:CE3	1:3:485:LYS:HB2	2.32	0.65
1:5:247:LEU:O	1:5:248:GLU:CB	2.42	0.65
1:5:173:LEU:HB2	1:5:487:ALA:HB3	1.79	0.65
1:5:54:VAL:HB	1:5:520:ALA:HB3	1.77	0.65
1:A:357:GLN:HB3	1:A:362:SER:HB3	1.78	0.65
1:B:255:LEU:O	1:B:256:LEU:HD23	1.97	0.65
1:G:534:PRO:HG3	1:G:562:ALA:HB1	1.77	0.65
1:I:89:GLN:HB3	1:I:90:ASP:HA	1.79	0.65
1:J:49:TYR:HB3	1:K:49:TYR:HB3	1.78	0.65
1:L:255:LEU:O	1:L:256:LEU:HD23	1.97	0.65
1:M:68:MET:HA	1:M:69:SER:HB3	1.77	0.65
1:M:89:GLN:HB3	1:M:90:ASP:HA	1.79	0.65
1:N:109:TRP:CE3	1:N:485:LYS:HB2	2.32	0.65
1:D:339:GLN:HE22	1:P:435:THR:HG21	1.60	0.65
1:P:109:TRP:CE3	1:P:485:LYS:HB2	2.32	0.65
1:Q:89:GLN:HB3	1:Q:90:ASP:HA	1.79	0.65
1:T:89:GLN:HB3	1:T:90:ASP:HA	1.79	0.65
1:S:526:ARG:NH1	1:U:183:LEU:O	2.25	0.65
1:U:109:TRP:CE3	1:U:485:LYS:HB2	2.32	0.65
1:Z:255:LEU:O	1:Z:256:LEU:HD23	1.97	0.65
1:0:54:VAL:HB	1:0:520:ALA:HB3	1.77	0.65
1:0:68:MET:HA	1:0:69:SER:HB3	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:109:TRP:CE3	1:1:485:LYS:HB2	2.32	0.65
1:1:89:GLN:HB3	1:1:90:ASP:HA	1.79	0.65
1:3:357:GLN:HB3	1:3:362:SER:HB3	1.78	0.65
1:3:68:MET:HA	1:3:69:SER:HB3	1.77	0.65
1:4:96:THR:HG21	1:4:221:ILE:HG12	1.77	0.65
1:6:109:TRP:CE3	1:6:485:LYS:HB2	2.32	0.65
1:6:534:PRO:HG3	1:6:562:ALA:HB1	1.77	0.65
1:A:173:LEU:HB2	1:A:487:ALA:HB3	1.79	0.65
1:B:173:LEU:HB2	1:B:487:ALA:HB3	1.79	0.65
1:B:342:TYR:CE1	1:B:347:PRO:HG3	2.32	0.65
1:B:357:GLN:HB3	1:B:362:SER:HB3	1.78	0.65
1:C:337:GLU:HB2	1:C:338:TRP:HA	1.78	0.65
1:D:68:MET:HA	1:D:69:SER:HB3	1.77	0.65
1:G:150:ILE:HD11	1:G:174:LEU:HB2	1.78	0.65
1:I:109:TRP:CE3	1:I:485:LYS:HB2	2.32	0.65
1:I:316:ARG:HH22	1:J:98:ASN:CB	80.16	0.65
1:J:109:TRP:CE3	1:J:485:LYS:HB2	2.32	0.65
1:K:357:GLN:HB3	1:K:362:SER:HB3	1.78	0.65
1:L:342:TYR:CE1	1:L:347:PRO:HG3	2.32	0.65
1:N:255:LEU:O	1:N:256:LEU:HD23	1.97	0.65
1:S:109:TRP:CE3	1:S:485:LYS:HB2	2.32	0.65
1:T:109:TRP:CE3	1:T:485:LYS:HB2	2.32	0.65
1:V:255:LEU:O	1:V:256:LEU:HD23	1.97	0.65
1:X:357:GLN:HB3	1:X:362:SER:HB3	1.78	0.65
1:Y:49:TYR:HB3	1:Z:49:TYR:HB3	1.78	0.65
1:2:342:TYR:CE1	1:2:347:PRO:HG3	2.32	0.65
1:1:49:TYR:HB3	1:2:49:TYR:HB3	1.78	0.65
1:4:357:GLN:HB3	1:4:362:SER:HB3	1.78	0.65
1:4:89:GLN:HB3	1:4:90:ASP:HA	1.79	0.65
1:5:282:SER:HB3	1:5:403:GLY:HA2	1.77	0.65
1:B:94:ARG:HH22	1:5:429:ARG:HH12	252.33	0.65
1:Z:526:ARG:NH1	1:6:183:LEU:O	145.08	0.65
1:A:255:LEU:O	1:A:256:LEU:HD23	1.97	0.65
1:C:109:TRP:CE3	1:C:485:LYS:HB2	2.32	0.65
1:D:342:TYR:CE1	1:D:347:PRO:HG3	2.32	0.65
1:E:342:TYR:CE1	1:E:347:PRO:HG3	2.32	0.65
1:G:109:TRP:CE3	1:G:485:LYS:HB2	2.32	0.65
1:H:33:GLY:C	1:L:36:HIS:CE1	99.01	0.65
1:I:150:ILE:HD11	1:I:174:LEU:HB2	1.78	0.65
1:J:173:LEU:HB2	1:J:487:ALA:HB3	1.79	0.65
1:J:357:GLN:HB3	1:J:362:SER:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:109:TRP:CE3	1:L:485:LYS:HB2	2.32	0.65
1:D:49:TYR:HB3	1:M:49:TYR:HB3	1.78	0.65
1:E:49:TYR:HB3	1:P:49:TYR:HB3	1.78	0.65
1:Q:357:GLN:HB3	1:Q:362:SER:HB3	1.78	0.65
1:S:435:THR:HG21	1:U:339:GLN:HE22	1.60	0.65
1:T:150:ILE:HD11	1:T:174:LEU:HB2	1.78	0.65
1:O:49:TYR:HB3	1:U:49:TYR:HB3	121.07	0.65
1:V:342:TYR:CE1	1:V:347:PRO:HG3	2.32	0.65
1:V:357:GLN:HB3	1:V:362:SER:HB3	1.78	0.65
1:W:342:TYR:CE1	1:W:347:PRO:HG3	2.32	0.65
1:W:357:GLN:HB3	1:W:362:SER:HB3	1.78	0.65
1:X:173:LEU:HB2	1:X:487:ALA:HB3	1.79	0.65
1:H:339:GLN:HE22	1:Y:435:THR:HG21	1.60	0.65
1:Z:109:TRP:CE3	1:Z:485:LYS:HB2	2.32	0.65
1:0:173:LEU:HB2	1:0:487:ALA:HB3	1.79	0.65
1:5:109:TRP:CE3	1:5:485:LYS:HB2	2.32	0.65
1:7:255:LEU:O	1:7:256:LEU:HD23	1.97	0.65
1:7:357:GLN:HB3	1:7:362:SER:HB3	1.78	0.65
1:B:109:TRP:CE3	1:B:485:LYS:HB2	2.32	0.65
1:C:173:LEU:HB2	1:C:487:ALA:HB3	1.79	0.65
1:E:173:LEU:HB2	1:E:487:ALA:HB3	1.79	0.65
1:E:337:GLU:HB2	1:E:338:TRP:HA	1.78	0.65
1:G:255:LEU:O	1:G:256:LEU:HD23	1.97	0.65
1:G:342:TYR:CE1	1:G:347:PRO:HG3	2.32	0.65
1:M:342:TYR:CE1	1:M:347:PRO:HG3	2.32	0.65
1:N:284:ARG:NH2	1:P:100:SER:HA	2.12	0.65
1:P:337:GLU:HB2	1:P:338:TRP:HA	1.78	0.65
1:P:49:TYR:HB3	1:S:49:TYR:HB3	84.99	0.65
1:D:49:TYR:HB3	1:Q:49:TYR:HB3	100.09	0.65
1:R:173:LEU:HB2	1:R:487:ALA:HB3	1.79	0.65
1:W:89:GLN:HB3	1:W:90:ASP:HA	1.79	0.65
1:Y:109:TRP:CE3	1:Y:485:LYS:HB2	2.32	0.65
1:2:109:TRP:CE3	1:2:485:LYS:HB2	2.32	0.65
1:3:173:LEU:HB2	1:3:487:ALA:HB3	1.79	0.65
1:H:49:TYR:HB3	1:3:49:TYR:HB3	149.35	0.65
1:4:255:LEU:O	1:4:256:LEU:HD23	1.97	0.65
1:5:357:GLN:HB3	1:5:362:SER:HB3	1.78	0.65
1:5:96:THR:HG21	1:5:221:ILE:HG12	1.77	0.65
1:A:109:TRP:CE3	1:A:485:LYS:HB2	2.32	0.65
1:C:342:TYR:CE1	1:C:347:PRO:HG3	2.32	0.65
1:C:49:TYR:HB3	1:F:49:TYR:HB3	86.51	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:109:TRP:CE3	1:D:485:LYS:HB2	2.32	0.65
1:F:342:TYR:CE1	1:F:347:PRO:HG3	2.32	0.65
1:I:255:LEU:O	1:I:256:LEU:HD23	1.97	0.65
1:K:89:GLN:HB3	1:K:90:ASP:HA	1.79	0.65
1:P:173:LEU:HB2	1:P:487:ALA:HB3	1.79	0.65
1:P:342:TYR:CE1	1:P:347:PRO:HG3	2.32	0.65
1:D:246:PRO:CG	1:P:528:TRP:CB	2.65	0.65
1:Q:107:THR:HG21	1:Q:209:TYR:HD2	1.61	0.65
1:Q:173:LEU:HB2	1:Q:487:ALA:HB3	1.79	0.65
1:R:284:ARG:NH2	1:S:100:SER:HA	2.12	0.65
1:S:150:ILE:HD11	1:S:174:LEU:HB2	1.78	0.65
1:T:255:LEU:O	1:T:256:LEU:HD23	1.97	0.65
1:T:337:GLU:HB2	1:T:338:TRP:HA	1.78	0.65
1:X:342:TYR:CE1	1:X:347:PRO:HG3	2.32	0.65
1:Y:173:LEU:HB2	1:Y:487:ALA:HB3	1.79	0.65
1:Y:255:LEU:O	1:Y:256:LEU:HD23	1.97	0.65
1:Y:316:ARG:HH22	1:Z:98:ASN:CB	64.57	0.65
1:0:342:TYR:CE1	1:0:347:PRO:HG3	2.32	0.65
1:4:282:SER:HB3	1:4:403:GLY:HA2	1.77	0.65
1:K:98:ASN:CB	1:7:316:ARG:HH22	1.92	0.65
1:7:97:ILE:HG21	1:7:340:ILE:HD12	1.77	0.65
1:A:89:GLN:HB3	1:A:90:ASP:HA	1.79	0.65
1:B:337:GLU:HB2	1:B:338:TRP:HA	1.78	0.65
1:D:284:ARG:NH2	1:E:100:SER:HA	100.95	0.65
1:C:183:LEU:O	1:E:526:ARG:NH1	82.98	0.65
1:F:255:LEU:O	1:F:256:LEU:HD23	1.97	0.65
1:F:339:GLN:HE22	1:Q:435:THR:HG21	1.60	0.65
1:F:36:HIS:CE1	1:G:33:GLY:C	2.45	0.65
1:H:357:GLN:HB3	1:H:362:SER:HB3	1.78	0.65
1:L:337:GLU:HB2	1:L:338:TRP:HA	1.78	0.65
1:L:173:LEU:HB2	1:L:487:ALA:HB3	1.79	0.65
1:M:109:TRP:CE3	1:M:485:LYS:HB2	2.32	0.65
1:N:173:LEU:HB2	1:N:487:ALA:HB3	1.79	0.65
1:O:150:ILE:HD11	1:O:174:LEU:HB2	1.78	0.65
1:O:89:GLN:HB3	1:O:90:ASP:HA	1.78	0.65
1:R:316:ARG:HH22	1:S:98:ASN:CB	1.92	0.65
1:R:109:TRP:CE3	1:R:485:LYS:HB2	2.32	0.65
1:V:49:TYR:HB3	1:X:49:TYR:HB3	52.56	0.65
1:W:98:ASN:HA	1:X:323:SER:HG	61.79	0.65
1:1:342:TYR:CE1	1:1:347:PRO:HG3	2.32	0.65
1:2:337:GLU:HB2	1:2:338:TRP:HA	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:342:TYR:CE1	1:7:347:PRO:HG3	2.32	0.65
1:I:337:GLU:HB2	1:I:338:TRP:HA	1.78	0.65
1:K:255:LEU:O	1:K:256:LEU:HD23	1.97	0.65
1:N:435:THR:HG21	1:O:339:GLN:HE22	76.58	0.65
1:N:49:TYR:HB3	1:Y:49:TYR:HB3	164.02	0.65
1:O:255:LEU:O	1:O:256:LEU:HD23	1.97	0.65
1:P:357:GLN:HB3	1:P:362:SER:HB3	1.78	0.65
1:Q:49:TYR:HB3	1:R:49:TYR:HB3	1.78	0.65
1:Q:68:MET:HA	1:Q:69:SER:HB3	1.77	0.65
1:S:342:TYR:CE1	1:S:347:PRO:HG3	2.32	0.65
1:S:173:LEU:HB2	1:S:487:ALA:HB3	1.79	0.65
1:V:337:GLU:CB	1:V:338:TRP:HA	2.28	0.65
1:W:109:TRP:CE3	1:W:485:LYS:HB2	2.32	0.65
1:0:109:TRP:CE3	1:0:485:LYS:HB2	2.32	0.64
1:0:150:ILE:HD11	1:0:174:LEU:HB2	1.78	0.64
1:1:337:GLU:CB	1:1:338:TRP:HA	2.27	0.64
1:B:89:GLN:HB3	1:B:90:ASP:HA	1.79	0.64
1:F:109:TRP:CE3	1:F:485:LYS:HB2	2.32	0.64
1:G:337:GLU:CB	1:G:338:TRP:HA	2.28	0.64
1:G:49:TYR:HB3	1:H:49:TYR:HB3	1.78	0.64
1:H:337:GLU:CB	1:H:338:TRP:HA	2.28	0.64
1:I:357:GLN:HB3	1:I:362:SER:HB3	1.78	0.64
1:K:342:TYR:CE1	1:K:347:PRO:HG3	2.32	0.64
1:M:337:GLU:CB	1:M:338:TRP:HA	2.27	0.64
1:N:337:GLU:CB	1:N:338:TRP:HA	2.27	0.64
1:O:342:TYR:CE1	1:O:347:PRO:HG3	2.32	0.64
1:O:109:TRP:CE3	1:O:485:LYS:HB2	2.32	0.64
1:P:255:LEU:O	1:P:256:LEU:HD23	1.97	0.64
1:Q:150:ILE:HD11	1:Q:174:LEU:HB2	1.78	0.64
1:Q:342:TYR:CE1	1:Q:347:PRO:HG3	2.32	0.64
1:T:357:GLN:HB3	1:T:362:SER:HB3	1.78	0.64
1:U:284:ARG:NH2	1:V:100:SER:HA	58.60	0.64
1:V:316:ARG:HH22	1:4:98:ASN:CB	1.92	0.64
1:W:284:ARG:NH2	1:Y:100:SER:HA	2.12	0.64
1:W:337:GLU:HB2	1:W:338:TRP:HA	1.78	0.64
1:X:109:TRP:CE3	1:X:485:LYS:HB2	2.32	0.64
1:X:337:GLU:CB	1:X:338:TRP:HA	2.27	0.64
1:W:284:ARG:NH2	1:Z:100:SER:HA	84.61	0.64
1:2:337:GLU:CB	1:2:338:TRP:HA	2.27	0.64
1:6:49:TYR:HB3	1:7:49:TYR:HB3	1.78	0.64
1:A:471:ALA:HB2	1:B:328:ASN:ND2	72.70	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:100:SER:HA	1:M:284:ARG:NH2	2.13	0.64
1:C:337:GLU:CB	1:C:338:TRP:HA	2.27	0.64
1:C:526:ARG:NH1	1:1:183:LEU:O	2.26	0.64
1:F:337:GLU:CB	1:F:338:TRP:HA	2.27	0.64
1:H:342:TYR:CE1	1:H:347:PRO:HG3	2.32	0.64
1:H:109:TRP:CE3	1:H:485:LYS:HB2	2.32	0.64
1:J:36:HIS:C	1:0:257:ARG:HD2	2.18	0.64
1:K:109:TRP:CE3	1:K:485:LYS:HB2	2.32	0.64
1:K:49:TYR:HB3	1:R:49:TYR:HB3	139.97	0.64
1:N:342:TYR:CE1	1:N:347:PRO:HG3	2.32	0.64
1:R:342:TYR:CE1	1:R:347:PRO:HG3	2.32	0.64
1:U:49:TYR:HB3	1:V:49:TYR:HB3	1.78	0.64
1:W:534:PRO:HG3	1:W:562:ALA:HB1	1.77	0.64
1:X:150:ILE:HD11	1:X:174:LEU:HB2	1.78	0.64
1:Z:342:TYR:CE1	1:Z:347:PRO:HG3	2.32	0.64
1:0:337:GLU:CB	1:0:338:TRP:HA	2.27	0.64
1:4:337:GLU:CB	1:4:338:TRP:HA	2.27	0.64
1:4:342:TYR:CE1	1:4:347:PRO:HG3	2.32	0.64
1:4:109:TRP:CE3	1:4:485:LYS:HB2	2.32	0.64
1:6:173:LEU:HB2	1:6:487:ALA:HB3	1.79	0.64
1:B:156:THR:HG21	1:4:165:GLN:HE21	201.94	0.64
1:A:100:SER:HA	1:B:284:ARG:NH2	63.85	0.64
1:E:284:ARG:NH2	1:Q:100:SER:HA	2.12	0.64
1:J:49:TYR:HB3	1:M:49:TYR:HB3	101.40	0.64
1:K:337:GLU:CB	1:K:338:TRP:HA	2.28	0.64
1:J:284:ARG:NH2	1:L:100:SER:HA	2.12	0.64
1:O:173:LEU:HB2	1:O:487:ALA:HB3	1.79	0.64
1:O:337:GLU:CB	1:O:338:TRP:HA	2.28	0.64
1:Q:337:GLU:CB	1:Q:338:TRP:HA	2.27	0.64
1:R:337:GLU:CB	1:R:338:TRP:HA	2.28	0.64
1:U:150:ILE:HD11	1:U:174:LEU:HB2	1.78	0.64
1:V:173:LEU:HB2	1:V:487:ALA:HB3	1.79	0.64
1:W:68:MET:HA	1:W:69:SER:HB3	1.77	0.64
1:Y:337:GLU:CB	1:Y:338:TRP:HA	2.27	0.64
1:1:255:LEU:O	1:1:256:LEU:HD23	1.97	0.64
1:X:34:VAL:HG22	1:5:36:HIS:CD2	2.33	0.64
1:7:337:GLU:CB	1:7:338:TRP:HA	2.27	0.64
1:A:342:TYR:CE1	1:A:347:PRO:HG3	2.32	0.64
1:B:49:TYR:HB3	1:I:49:TYR:HB3	1.78	0.64
1:C:247:LEU:O	1:C:248:GLU:CB	2.42	0.64
1:C:255:LEU:O	1:C:256:LEU:HD23	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:37:SER:HG	1:R:257:ARG:CG	114.46	0.64
1:G:173:LEU:HB2	1:G:487:ALA:HB3	1.79	0.64
1:H:173:LEU:HB2	1:H:487:ALA:HB3	1.79	0.64
1:B:284:ARG:NH2	1:J:100:SER:HA	2.12	0.64
1:J:342:TYR:CE1	1:J:347:PRO:HG3	2.32	0.64
1:M:173:LEU:HB2	1:M:487:ALA:HB3	1.79	0.64
1:N:100:SER:HA	1:P:284:ARG:NH2	46.79	0.64
1:D:36:HIS:C	1:R:257:ARG:HD2	110.50	0.64
1:R:89:GLN:HB3	1:R:90:ASP:HA	1.79	0.64
1:U:342:TYR:CE1	1:U:347:PRO:HG3	2.32	0.64
1:V:109:TRP:CE3	1:V:485:LYS:HB2	2.32	0.64
1:W:255:LEU:O	1:W:256:LEU:HD23	1.97	0.64
1:V:36:HIS:C	1:W:257:ARG:HD2	21.37	0.64
1:W:337:GLU:CB	1:W:338:TRP:HA	2.28	0.64
1:H:33:GLY:C	1:Z:36:HIS:CE1	2.44	0.64
1:F:100:SER:HA	1:3:284:ARG:NH2	154.73	0.64
1:A:284:ARG:NH2	1:5:100:SER:HA	175.38	0.64
1:4:49:TYR:HB3	1:5:49:TYR:HB3	1.79	0.64
1:7:173:LEU:HB2	1:7:487:ALA:HB3	1.79	0.64
1:B:100:SER:HA	1:L:284:ARG:NH2	2.12	0.64
1:E:255:LEU:O	1:E:256:LEU:HD23	1.97	0.64
1:E:337:GLU:CB	1:E:338:TRP:HA	2.28	0.64
1:F:257:ARG:HD2	1:H:36:HIS:C	94.80	0.64
1:G:36:HIS:C	1:W:257:ARG:HD2	2.18	0.64
1:G:284:ARG:NH2	1:I:100:SER:HA	2.12	0.64
1:I:173:LEU:HB2	1:I:487:ALA:HB3	1.79	0.64
1:K:173:LEU:HB2	1:K:487:ALA:HB3	1.79	0.64
1:K:37:SER:HG	1:S:257:ARG:CG	160.52	0.64
1:H:323:SER:HG	1:O:98:ASN:HA	204.55	0.64
1:P:150:ILE:HD11	1:P:174:LEU:HB2	1.78	0.64
1:U:173:LEU:HB2	1:U:487:ALA:HB3	1.79	0.64
1:O:36:HIS:CE1	1:V:33:GLY:C	95.17	0.64
1:Z:337:GLU:CB	1:Z:338:TRP:HA	2.28	0.64
1:2:150:ILE:HD11	1:2:174:LEU:HB2	1.78	0.64
1:3:342:TYR:CE1	1:3:347:PRO:HG3	2.32	0.64
1:4:173:LEU:HB2	1:4:487:ALA:HB3	1.79	0.64
1:4:337:GLU:HB2	1:4:338:TRP:HA	1.78	0.64
1:5:337:GLU:CB	1:5:338:TRP:HA	2.27	0.64
1:7:109:TRP:CE3	1:7:485:LYS:HB2	2.32	0.64
1:B:243:GLN:HG2	1:5:527:GLN:NE2	199.62	0.64
1:C:435:THR:HG21	1:D:339:GLN:HE22	89.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:141:PHE:HD1	1:D:516:MET:SD	2.21	0.64
1:E:257:ARG:HD2	1:Q:36:HIS:C	89.52	0.64
1:F:141:PHE:HD1	1:F:516:MET:SD	2.21	0.64
1:I:337:GLU:CB	1:I:338:TRP:HA	2.28	0.64
1:K:36:HIS:C	1:L:257:ARG:HD2	2.18	0.64
1:C:49:TYR:HB3	1:L:49:TYR:HB3	1.78	0.64
1:M:36:HIS:C	1:N:257:ARG:HD2	2.18	0.64
1:N:49:TYR:HB3	1:O:49:TYR:HB3	1.78	0.64
1:T:337:GLU:CB	1:T:338:TRP:HA	2.27	0.64
1:V:284:ARG:NH2	1:4:100:SER:HA	2.12	0.64
1:2:107:THR:HG21	1:2:209:TYR:HD2	1.61	0.64
1:2:141:PHE:HD1	1:2:516:MET:SD	2.21	0.64
1:3:141:PHE:HD1	1:3:516:MET:SD	2.21	0.64
1:6:150:ILE:HD11	1:6:174:LEU:HB2	1.78	0.64
1:K:100:SER:HA	1:7:284:ARG:NH2	2.12	0.64
1:A:49:TYR:HB3	1:T:49:TYR:HB3	102.64	0.64
1:C:257:ARG:HD2	1:D:36:HIS:C	2.18	0.64
1:C:357:GLN:HB3	1:C:362:SER:HB3	1.78	0.64
1:C:36:HIS:C	1:T:257:ARG:HD2	161.39	0.64
1:D:173:LEU:HB2	1:D:487:ALA:HB3	1.79	0.64
1:F:150:ILE:HD11	1:F:174:LEU:HB2	1.78	0.64
1:H:284:ARG:NH2	1:O:100:SER:HA	199.69	0.64
1:J:141:PHE:HD1	1:J:516:MET:SD	2.21	0.64
1:J:284:ARG:NH2	1:2:100:SER:HA	132.25	0.64
1:K:100:SER:HA	1:M:284:ARG:NH2	130.86	0.64
1:K:98:ASN:HA	1:M:323:SER:HG	127.25	0.64
1:M:37:SER:H	1:N:257:ARG:HG3	1.63	0.64
1:O:141:PHE:HD1	1:O:516:MET:SD	2.21	0.64
1:Q:141:PHE:HD1	1:Q:516:MET:SD	2.21	0.64
1:T:100:SER:HA	1:V:284:ARG:NH2	95.66	0.64
1:T:173:LEU:HB2	1:T:487:ALA:HB3	1.79	0.64
1:T:284:ARG:NH2	1:3:100:SER:HA	2.12	0.64
1:T:342:TYR:CE1	1:T:347:PRO:HG3	2.32	0.64
1:Y:284:ARG:NH2	1:Z:100:SER:HA	58.61	0.64
1:C:284:ARG:NH2	1:1:100:SER:HA	2.12	0.64
1:1:357:GLN:HB3	1:1:362:SER:HB3	1.78	0.64
1:6:337:GLU:HB2	1:6:338:TRP:HA	1.78	0.64
1:D:100:SER:HA	1:P:284:ARG:NH2	2.12	0.64
1:E:109:TRP:CE3	1:E:485:LYS:HB2	2.32	0.64
1:E:100:SER:HA	1:F:284:ARG:NH2	2.13	0.64
1:F:316:ARG:HH22	1:T:98:ASN:CB	162.41	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:342:TYR:CE1	1:I:347:PRO:HG3	2.32	0.64
1:I:284:ARG:NH2	1:J:100:SER:HA	63.85	0.64
1:J:257:ARG:HD2	1:Z:36:HIS:C	21.07	0.64
1:J:337:GLU:CB	1:J:338:TRP:HA	2.27	0.64
1:J:89:GLN:HB3	1:J:90:ASP:HA	1.79	0.64
1:L:114:ALA:HB1	1:L:120:TRP:HE1	1.63	0.64
1:L:89:GLN:HB3	1:L:90:ASP:HA	1.79	0.64
1:N:114:ALA:HB1	1:N:120:TRP:HE1	1.63	0.64
1:O:284:ARG:NH2	1:P:100:SER:HA	63.84	0.64
1:P:141:PHE:HD1	1:P:516:MET:SD	2.21	0.64
1:T:284:ARG:NH2	1:U:100:SER:HA	63.85	0.64
1:Y:342:TYR:CE1	1:Y:347:PRO:HG3	2.32	0.64
1:2:89:GLN:HB3	1:2:90:ASP:HA	1.79	0.64
1:3:114:ALA:HB1	1:3:120:TRP:HE1	1.63	0.64
1:3:150:ILE:HD11	1:3:174:LEU:HB2	1.78	0.64
1:6:141:PHE:HD1	1:6:516:MET:SD	2.21	0.64
1:A:114:ALA:HB1	1:A:120:TRP:HE1	1.63	0.64
1:B:114:ALA:HB1	1:B:120:TRP:HE1	1.63	0.64
1:A:34:VAL:HG22	1:B:36:HIS:CD2	2.33	0.64
1:C:100:SER:HA	1:E:284:ARG:NH2	115.95	0.64
1:D:357:GLN:HB3	1:D:362:SER:HB3	1.78	0.64
1:A:257:ARG:HG3	1:E:37:SER:H	21.97	0.64
1:I:257:ARG:HD2	1:1:36:HIS:C	110.50	0.64
1:M:141:PHE:HD1	1:M:516:MET:SD	2.21	0.64
1:N:284:ARG:NH2	1:O:100:SER:HA	58.60	0.64
1:Q:100:SER:HA	1:S:284:ARG:NH2	100.95	0.64
1:Q:284:ARG:NH2	1:R:100:SER:HA	58.61	0.64
1:S:141:PHE:HD1	1:S:516:MET:SD	2.21	0.64
1:V:89:GLN:HB3	1:V:90:ASP:HA	1.79	0.64
1:0:255:LEU:O	1:0:256:LEU:HD23	1.97	0.64
1:1:114:ALA:HB1	1:1:120:TRP:HE1	1.63	0.64
1:S:36:HIS:C	1:3:257:ARG:HD2	2.18	0.64
1:3:89:GLN:HB3	1:3:90:ASP:HA	1.79	0.64
1:4:141:PHE:HD1	1:4:516:MET:SD	2.21	0.64
1:5:255:LEU:O	1:5:256:LEU:HD23	1.97	0.64
1:6:337:GLU:CB	1:6:338:TRP:HA	2.28	0.64
1:0:284:ARG:NH2	1:7:100:SER:HA	2.12	0.64
1:Y:257:ARG:HD2	1:7:36:HIS:C	110.50	0.64
1:B:257:ARG:HG3	1:C:37:SER:H	1.63	0.64
1:D:284:ARG:NH2	1:N:100:SER:HA	2.12	0.64
1:E:357:GLN:HB3	1:E:362:SER:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:89:GLN:HB3	1:F:90:ASP:HA	1.79	0.64
1:G:37:SER:H	1:W:257:ARG:HG3	1.63	0.64
1:G:141:PHE:HD1	1:G:516:MET:SD	2.21	0.64
1:J:114:ALA:HB1	1:J:120:TRP:HE1	1.63	0.64
1:I:36:HIS:C	1:J:257:ARG:HD2	2.18	0.64
1:L:141:PHE:HD1	1:L:516:MET:SD	2.21	0.64
1:M:357:GLN:HB3	1:M:362:SER:HB3	1.78	0.64
1:N:191:PHE:CE1	1:N:470:HIS:HE1	2.16	0.64
1:S:337:GLU:CB	1:S:338:TRP:HA	2.27	0.64
1:U:337:GLU:CB	1:U:338:TRP:HA	2.27	0.64
1:U:141:PHE:HD1	1:U:516:MET:SD	2.21	0.64
1:V:141:PHE:HD1	1:V:516:MET:SD	2.21	0.64
1:V:37:SER:H	1:W:257:ARG:HG3	21.98	0.64
1:Z:141:PHE:HD1	1:Z:516:MET:SD	2.21	0.64
1:1:337:GLU:HB2	1:1:338:TRP:HA	1.78	0.63
1:M:339:GLN:HE22	1:1:435:THR:HG21	1.60	0.63
1:U:36:HIS:C	1:4:257:ARG:HD2	2.18	0.63
1:T:36:HIS:C	1:5:257:ARG:HD2	99.87	0.63
1:Z:284:ARG:NH2	1:6:100:SER:HA	165.31	0.63
1:K:34:VAL:HG22	1:6:36:HIS:CD2	2.34	0.63
1:W:37:SER:H	1:7:257:ARG:HG3	147.47	0.63
1:7:141:PHE:HD1	1:7:516:MET:SD	2.21	0.63
1:C:114:ALA:HB1	1:C:120:TRP:HE1	1.63	0.63
1:F:284:ARG:NH2	1:T:100:SER:HA	165.30	0.63
1:G:284:ARG:NH2	1:H:100:SER:HA	58.61	0.63
1:I:100:SER:HA	1:2:284:ARG:NH2	179.59	0.63
1:J:37:SER:H	1:K:257:ARG:HG3	80.71	0.63
1:L:337:GLU:CB	1:L:338:TRP:HA	2.28	0.63
1:L:284:ARG:NH2	1:M:100:SER:HA	96.16	0.63
1:R:114:ALA:HB1	1:R:120:TRP:HE1	1.63	0.63
1:D:37:SER:H	1:R:257:ARG:HG3	110.75	0.63
1:T:141:PHE:HD1	1:T:516:MET:SD	2.21	0.63
1:R:257:ARG:HD2	1:V:36:HIS:C	2.18	0.63
1:W:114:ALA:HB1	1:W:120:TRP:HE1	1.63	0.63
1:W:150:ILE:HD11	1:W:174:LEU:HB2	1.78	0.63
1:W:173:LEU:HB2	1:W:487:ALA:HB3	1.79	0.63
1:W:141:PHE:HD1	1:W:516:MET:SD	2.21	0.63
1:2:173:LEU:HB2	1:2:487:ALA:HB3	1.79	0.63
1:3:337:GLU:CB	1:3:338:TRP:HA	2.27	0.63
1:K:257:ARG:HD2	1:6:36:HIS:C	2.18	0.63
1:A:141:PHE:HD1	1:A:516:MET:SD	2.21	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:141:PHE:HD1	1:B:516:MET:SD	2.21	0.63
1:A:94:ARG:HH11	1:B:424:ALA:HA	91.00	0.63
1:G:89:GLN:HB3	1:G:90:ASP:HA	1.79	0.63
1:K:141:PHE:HD1	1:K:516:MET:SD	2.21	0.63
1:Q:114:ALA:HB1	1:Q:120:TRP:HE1	1.63	0.63
1:F:100:SER:HA	1:Q:284:ARG:NH2	2.12	0.63
1:S:191:PHE:CE1	1:S:470:HIS:HE1	2.16	0.63
1:S:316:ARG:HH22	1:U:98:ASN:CB	1.92	0.63
1:U:36:HIS:CD2	1:4:34:VAL:HG22	2.34	0.63
1:V:100:SER:HA	1:X:284:ARG:NH2	2.12	0.63
1:2:255:LEU:O	1:2:256:LEU:HD23	1.97	0.63
1:I:98:ASN:CB	1:2:316:ARG:HH22	185.93	0.63
1:B:220:ASP:OD1	1:5:360:TRP:HZ3	238.06	0.63
1:5:89:GLN:HB3	1:5:90:ASP:HA	1.79	0.63
1:A:244:PHE:CE2	1:A:246:PRO:CB	2.76	0.63
1:D:114:ALA:HB1	1:D:120:TRP:HE1	1.63	0.63
1:D:257:ARG:HG3	1:F:37:SER:H	86.45	0.63
1:E:246:PRO:CG	1:F:528:TRP:CB	2.65	0.63
1:F:173:LEU:HB2	1:F:487:ALA:HB3	1.79	0.63
1:M:96:THR:HG1	1:M:342:TYR:HH	1.15	0.63
1:O:257:ARG:HG3	1:3:37:SER:H	1.64	0.63
1:O:528:TRP:CB	1:P:246:PRO:CG	35.83	0.63
1:P:337:GLU:CB	1:P:338:TRP:HA	2.28	0.63
1:Q:146:GLU:O	1:Q:511:TRP:HB2	1.99	0.63
1:S:284:ARG:NH2	1:U:100:SER:HA	2.12	0.63
1:P:257:ARG:HD2	1:U:36:HIS:C	103.12	0.63
1:Z:191:PHE:CE1	1:Z:470:HIS:HE1	2.16	0.63
1:X:100:SER:HA	1:Z:284:ARG:NH2	95.66	0.63
1:Z:316:ARG:HH22	1:6:98:ASN:CB	162.41	0.63
1:1:173:LEU:HB2	1:1:487:ALA:HB3	1.79	0.63
1:M:257:ARG:HG3	1:2:37:SER:H	1.64	0.63
1:2:146:GLU:O	1:2:511:TRP:HB2	1.99	0.63
1:5:342:TYR:CE1	1:5:347:PRO:HG3	2.32	0.63
1:6:342:TYR:CE1	1:6:347:PRO:HG3	2.32	0.63
1:B:244:PHE:CE2	1:B:246:PRO:CB	2.76	0.63
1:B:337:GLU:CB	1:B:338:TRP:HA	2.27	0.63
1:C:284:ARG:NH2	1:D:100:SER:HA	100.94	0.63
1:D:146:GLU:O	1:D:511:TRP:HB2	1.99	0.63
1:F:146:GLU:O	1:F:511:TRP:HB2	1.99	0.63
1:G:257:ARG:HG3	1:N:37:SER:H	147.47	0.63
1:H:284:ARG:NH2	1:W:100:SER:HA	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:141:PHE:HD1	1:I:516:MET:SD	2.21	0.63
1:M:114:ALA:HB1	1:M:120:TRP:HE1	1.63	0.63
1:S:36:HIS:CE1	1:3:33:GLY:C	2.45	0.63
1:T:146:GLU:O	1:T:511:TRP:HB2	1.99	0.63
1:3:146:GLU:O	1:3:511:TRP:HB2	1.99	0.63
1:A:257:ARG:HD2	1:B:36:HIS:C	2.16	0.63
1:D:33:GLY:C	1:E:36:HIS:CE1	2.45	0.63
1:F:33:GLY:C	1:R:36:HIS:CE1	2.44	0.63
1:G:114:ALA:HB1	1:G:120:TRP:HE1	1.63	0.63
1:J:146:GLU:O	1:J:511:TRP:HB2	1.99	0.63
1:H:257:ARG:HD2	1:L:36:HIS:C	103.12	0.63
1:B:246:PRO:CG	1:L:528:TRP:CB	2.65	0.63
1:P:36:HIS:CE1	1:Q:33:GLY:C	2.45	0.63
1:R:100:SER:HA	1:U:284:ARG:NH2	2.12	0.63
1:V:114:ALA:HB1	1:V:120:TRP:HE1	1.63	0.63
1:V:257:ARG:HG3	1:W:37:SER:H	1.63	0.63
1:Y:100:SER:HA	1:6:284:ARG:NH2	179.58	0.63
1:H:100:SER:HA	1:Y:284:ARG:NH2	2.12	0.63
1:K:284:ARG:NH2	1:0:100:SER:HA	2.12	0.63
1:0:141:PHE:HD1	1:0:516:MET:SD	2.21	0.63
1:X:100:SER:HA	1:4:284:ARG:NH2	2.12	0.63
1:5:146:GLU:O	1:5:511:TRP:HB2	1.99	0.63
1:5:141:PHE:HD1	1:5:516:MET:SD	2.21	0.63
1:6:146:GLU:O	1:6:511:TRP:HB2	1.99	0.63
1:7:114:ALA:HB1	1:7:120:TRP:HE1	1.63	0.63
1:A:337:GLU:CB	1:A:338:TRP:HA	2.28	0.63
1:D:337:GLU:CB	1:D:338:TRP:HA	2.27	0.63
1:H:114:ALA:HB1	1:H:120:TRP:HE1	1.63	0.63
1:A:100:SER:HA	1:I:284:ARG:NH2	2.13	0.63
1:I:146:GLU:O	1:I:511:TRP:HB2	1.99	0.63
1:K:114:ALA:HB1	1:K:120:TRP:HE1	1.63	0.63
1:K:284:ARG:NH2	1:L:100:SER:HA	63.84	0.63
1:M:100:SER:HA	1:1:284:ARG:NH2	2.12	0.63
1:N:146:GLU:O	1:N:511:TRP:HB2	1.99	0.63
1:G:100:SER:HA	1:O:284:ARG:NH2	187.02	0.63
1:U:146:GLU:O	1:U:511:TRP:HB2	1.99	0.63
1:X:257:ARG:HD2	1:5:36:HIS:C	2.19	0.63
1:X:257:ARG:HG3	1:Y:37:SER:H	21.98	0.63
1:W:528:TRP:CB	1:Y:246:PRO:CG	2.65	0.63
1:J:36:HIS:CD2	1:0:34:VAL:HG22	2.34	0.63
1:F:183:LEU:O	1:3:526:ARG:NH1	121.52	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:141:PHE:HD1	1:E:516:MET:SD	2.21	0.63
1:D:33:GLY:C	1:F:36:HIS:CE1	92.04	0.63
1:H:34:VAL:HG22	1:Z:36:HIS:CD2	2.34	0.63
1:G:33:GLY:C	1:N:36:HIS:CE1	149.58	0.63
1:N:141:PHE:HD1	1:N:516:MET:SD	2.21	0.63
1:O:114:ALA:HB1	1:O:120:TRP:HE1	1.63	0.63
1:P:146:GLU:O	1:P:511:TRP:HB2	1.99	0.63
1:R:146:GLU:O	1:R:511:TRP:HB2	1.99	0.63
1:L:257:ARG:HG3	1:R:37:SER:H	150.23	0.63
1:W:100:SER:HA	1:X:284:ARG:NH2	58.61	0.63
1:X:34:VAL:HG22	1:Y:36:HIS:CD2	9.81	0.63
1:Z:173:LEU:HB2	1:Z:487:ALA:HB3	1.79	0.63
1:H:257:ARG:HG3	1:Z:37:SER:H	1.63	0.63
1:O:146:GLU:O	1:O:511:TRP:HB2	1.99	0.63
1:6:114:ALA:HB1	1:6:120:TRP:HE1	1.63	0.63
1:7:146:GLU:O	1:7:511:TRP:HB2	1.99	0.63
1:7:130:ILE:HD12	1:7:562:ALA:HB2	1.81	0.63
1:A:191:PHE:CE1	1:A:470:HIS:HE1	2.16	0.63
1:C:141:PHE:HD1	1:C:516:MET:SD	2.21	0.63
1:A:34:VAL:HG22	1:E:36:HIS:CD2	9.80	0.63
1:H:141:PHE:HD1	1:H:516:MET:SD	2.21	0.63
1:G:36:HIS:C	1:M:257:ARG:HD2	157.55	0.63
1:O:33:GLY:C	1:Y:36:HIS:CE1	155.77	0.63
1:O:36:HIS:CD2	1:P:34:VAL:HG22	2.33	0.63
1:F:257:ARG:HG3	1:R:37:SER:H	1.63	0.63
1:S:146:GLU:O	1:S:511:TRP:HB2	1.99	0.63
1:U:114:ALA:HB1	1:U:120:TRP:HE1	1.63	0.63
1:G:36:HIS:CD2	1:W:34:VAL:HG22	2.34	0.63
1:W:528:TRP:CB	1:Z:246:PRO:CG	103.94	0.63
1:X:141:PHE:HD1	1:X:516:MET:SD	2.21	0.63
1:Y:114:ALA:HB1	1:Y:120:TRP:HE1	1.63	0.63
1:1:141:PHE:HD1	1:1:516:MET:SD	2.21	0.63
1:6:130:ILE:HD12	1:6:562:ALA:HB2	1.81	0.63
1:7:89:GLN:HB3	1:7:90:ASP:HA	1.79	0.63
1:B:146:GLU:O	1:B:511:TRP:HB2	1.99	0.63
1:F:33:GLY:C	1:H:36:HIS:CE1	88.29	0.63
1:M:36:HIS:CD2	1:2:34:VAL:HG22	9.81	0.63
1:M:36:HIS:CD2	1:N:34:VAL:HG22	2.34	0.63
1:O:146:GLU:O	1:O:511:TRP:HB2	1.99	0.63
1:R:141:PHE:HD1	1:R:516:MET:SD	2.21	0.63
1:A:36:HIS:CD2	1:U:34:VAL:HG22	145.65	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:36:HIS:CD2	1:V:34:VAL:HG22	99.03	0.63
1:V:130:ILE:HD12	1:V:562:ALA:HB2	1.81	0.63
1:W:404:GLN:HE22	1:W:443:ASP:N	1.97	0.63
1:X:146:GLU:O	1:X:511:TRP:HB2	1.99	0.63
1:O:257:ARG:HG3	1:Y:37:SER:H	161.85	0.63
1:2:244:PHE:CE2	1:2:246:PRO:CB	2.76	0.62
1:A:257:ARG:HD3	1:B:36:HIS:C	2.18	0.62
1:A:146:GLU:O	1:A:511:TRP:HB2	1.99	0.62
1:D:404:GLN:HE22	1:D:443:ASP:N	1.97	0.62
1:F:244:PHE:CE2	1:F:246:PRO:CB	2.76	0.62
1:F:404:GLN:HE22	1:F:443:ASP:N	1.97	0.62
1:H:146:GLU:O	1:H:511:TRP:HB2	1.99	0.62
1:I:114:ALA:HB1	1:I:120:TRP:HE1	1.63	0.62
1:M:191:PHE:CE1	1:M:470:HIS:HE1	2.16	0.62
1:D:36:HIS:CD2	1:R:34:VAL:HG22	100.06	0.62
1:T:114:ALA:HB1	1:T:120:TRP:HE1	1.63	0.62
1:U:191:PHE:CE1	1:U:470:HIS:HE1	2.16	0.62
1:U:130:ILE:HD12	1:U:562:ALA:HB2	1.81	0.62
1:V:36:HIS:CD2	1:W:34:VAL:HG22	9.82	0.62
1:X:114:ALA:HB1	1:X:120:TRP:HE1	1.63	0.62
1:Y:130:ILE:HD12	1:Y:562:ALA:HB2	1.81	0.62
1:Z:130:ILE:HD12	1:Z:562:ALA:HB2	1.81	0.62
1:4:244:PHE:CE2	1:4:246:PRO:CB	2.76	0.62
1:A:36:HIS:C	1:E:257:ARG:HD2	2.19	0.62
1:F:114:ALA:HB1	1:F:120:TRP:HE1	1.63	0.62
1:F:34:VAL:HG22	1:H:36:HIS:CD2	90.42	0.62
1:K:36:HIS:CD2	1:S:34:VAL:HG22	152.27	0.62
1:L:146:GLU:O	1:L:511:TRP:HB2	1.99	0.62
1:K:36:HIS:CE1	1:L:33:GLY:C	2.45	0.62
1:M:130:ILE:HD12	1:M:562:ALA:HB2	1.81	0.62
1:M:33:GLY:C	1:2:36:HIS:CE1	2.44	0.62
1:N:36:HIS:CD2	1:Z:34:VAL:HG22	153.82	0.62
1:O:404:GLN:HE22	1:O:443:ASP:N	1.97	0.62
1:T:36:HIS:CE1	1:5:33:GLY:C	90.18	0.62
1:T:37:SER:HG	1:U:257:ARG:CG	1.93	0.62
1:V:146:GLU:O	1:V:511:TRP:HB2	1.99	0.62
1:W:146:GLU:O	1:W:511:TRP:HB2	1.99	0.62
1:Y:146:GLU:O	1:Y:511:TRP:HB2	1.99	0.62
1:Y:141:PHE:HD1	1:Y:516:MET:SD	2.21	0.62
1:J:33:GLY:C	1:Z:36:HIS:CE1	12.03	0.62
1:0:404:GLN:HE22	1:0:443:ASP:N	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:130:ILE:HD12	1:3:562:ALA:HB2	1.81	0.62
1:4:114:ALA:HB1	1:4:120:TRP:HE1	1.63	0.62
1:B:191:PHE:CE1	1:B:470:HIS:HE1	2.16	0.62
1:A:98:ASN:CB	1:B:316:ARG:HH22	80.17	0.62
1:C:146:GLU:O	1:C:511:TRP:HB2	1.99	0.62
1:B:36:HIS:CD2	1:C:34:VAL:HG22	9.81	0.62
1:D:191:PHE:CE1	1:D:470:HIS:HE1	2.16	0.62
1:D:247:LEU:O	1:D:248:GLU:CB	2.42	0.62
1:E:146:GLU:O	1:E:511:TRP:HB2	1.99	0.62
1:G:146:GLU:O	1:G:511:TRP:HB2	1.99	0.62
1:F:36:HIS:CD2	1:G:34:VAL:HG22	2.34	0.62
1:I:37:SER:HG	1:6:257:ARG:CG	100.23	0.62
1:J:130:ILE:HD12	1:J:562:ALA:HB2	1.81	0.62
1:L:130:ILE:HD12	1:L:562:ALA:HB2	1.81	0.62
1:M:36:HIS:CE1	1:2:33:GLY:C	10.52	0.62
1:M:404:GLN:HE22	1:M:443:ASP:N	1.97	0.62
1:M:146:GLU:O	1:M:511:TRP:HB2	1.99	0.62
1:G:257:ARG:HD2	1:N:36:HIS:C	145.53	0.62
1:Q:36:HIS:CD2	1:S:34:VAL:HG22	2.34	0.62
1:T:36:HIS:CD2	1:U:34:VAL:HG22	2.34	0.62
1:0:114:ALA:HB1	1:0:120:TRP:HE1	1.63	0.62
1:5:114:ALA:HB1	1:5:120:TRP:HE1	1.63	0.62
1:C:36:HIS:CD2	1:T:34:VAL:HG22	154.00	0.62
1:C:130:ILE:HD12	1:C:562:ALA:HB2	1.81	0.62
1:D:130:ILE:HD12	1:D:562:ALA:HB2	1.81	0.62
1:E:114:ALA:HB1	1:E:120:TRP:HE1	1.63	0.62
1:G:183:LEU:O	1:O:526:ARG:NH1	143.50	0.62
1:H:130:ILE:HD12	1:H:562:ALA:HB2	1.81	0.62
1:K:526:ARG:NH1	1:L:183:LEU:O	38.18	0.62
1:N:404:GLN:HE22	1:N:443:ASP:N	1.97	0.62
1:Q:130:ILE:HD12	1:Q:562:ALA:HB2	1.81	0.62
1:Z:404:GLN:HE22	1:Z:443:ASP:N	1.97	0.62
1:0:130:ILE:HD12	1:0:562:ALA:HB2	1.81	0.62
1:1:146:GLU:O	1:1:511:TRP:HB2	1.99	0.62
1:2:114:ALA:HB1	1:2:120:TRP:HE1	1.63	0.62
1:B:130:ILE:HD12	1:B:562:ALA:HB2	1.81	0.62
1:E:130:ILE:HD12	1:E:562:ALA:HB2	1.81	0.62
1:G:404:GLN:HE22	1:G:443:ASP:N	1.97	0.62
1:G:130:ILE:HD12	1:G:562:ALA:HB2	1.81	0.62
1:I:36:HIS:CD2	1:6:34:VAL:HG22	93.13	0.62
1:I:130:ILE:HD12	1:I:562:ALA:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:36:HIS:C	1:S:257:ARG:HD3	2.20	0.62
1:Q:404:GLN:HE22	1:Q:443:ASP:N	1.97	0.62
1:R:244:PHE:CE2	1:R:246:PRO:CB	2.76	0.62
1:R:404:GLN:HE22	1:R:443:ASP:N	1.97	0.62
1:S:404:GLN:HE22	1:S:443:ASP:N	1.97	0.62
1:T:130:ILE:HD12	1:T:562:ALA:HB2	1.81	0.62
1:U:36:HIS:C	1:4:257:ARG:HD3	2.20	0.62
1:X:404:GLN:HE22	1:X:443:ASP:N	1.97	0.62
1:X:130:ILE:HD12	1:X:562:ALA:HB2	1.81	0.62
1:X:33:GLY:C	1:Y:36:HIS:CE1	10.52	0.62
1:Y:404:GLN:HE22	1:Y:443:ASP:N	1.97	0.62
1:Z:114:ALA:HB1	1:Z:120:TRP:HE1	1.63	0.62
1:L:36:HIS:CD2	1:1:34:VAL:HG22	2.34	0.62
1:B:404:GLN:HE22	1:B:443:ASP:N	1.97	0.62
1:B:34:VAL:HG22	1:C:36:HIS:CD2	2.34	0.62
1:F:36:HIS:C	1:G:257:ARG:HD2	2.18	0.62
1:K:191:PHE:CE1	1:K:470:HIS:HE1	2.16	0.62
1:K:244:PHE:CE2	1:K:246:PRO:CB	2.76	0.62
1:K:257:ARG:HD3	1:6:36:HIS:C	2.20	0.62
1:K:257:ARG:HG3	1:6:37:SER:H	1.63	0.62
1:K:146:GLU:O	1:K:511:TRP:HB2	1.99	0.62
1:M:257:ARG:HD2	1:2:36:HIS:C	2.18	0.62
1:C:98:ASN:CB	1:M:316:ARG:HH22	1.92	0.62
1:O:37:SER:H	1:P:257:ARG:HG3	1.63	0.62
1:L:257:ARG:HD2	1:R:36:HIS:C	150.97	0.62
1:S:130:ILE:HD12	1:S:562:ALA:HB2	1.81	0.62
1:T:191:PHE:CE1	1:T:470:HIS:HE1	2.16	0.62
1:T:37:SER:H	1:5:257:ARG:HG3	98.53	0.62
1:U:404:GLN:HE22	1:U:443:ASP:N	1.97	0.62
1:W:130:ILE:HD12	1:W:562:ALA:HB2	1.81	0.62
1:N:36:HIS:C	1:Z:257:ARG:HD3	159.84	0.62
1:3:34:VAL:HG12	1:3:34:VAL:O	2.00	0.62
1:I:36:HIS:C	1:6:257:ARG:HD3	100.20	0.62
1:A:257:ARG:HG3	1:B:37:SER:H	1.62	0.62
1:A:404:GLN:HE22	1:A:443:ASP:N	1.97	0.62
1:D:257:ARG:HD3	1:E:36:HIS:C	2.20	0.62
1:I:34:VAL:HG22	1:1:36:HIS:CD2	100.05	0.62
1:I:37:SER:H	1:J:257:ARG:HG3	1.63	0.62
1:K:130:ILE:HD12	1:K:562:ALA:HB2	1.81	0.62
1:L:404:GLN:HE22	1:L:443:ASP:N	1.97	0.62
1:P:36:HIS:C	1:Q:257:ARG:HD3	2.21	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:37:SER:H	1:Q:257:ARG:HG3	1.64	0.62
1:R:130:ILE:HD12	1:R:562:ALA:HB2	1.81	0.62
1:N:257:ARG:HG3	1:S:37:SER:H	98.50	0.62
1:T:34:VAL:O	1:T:34:VAL:HG12	2.00	0.62
1:T:36:HIS:C	1:U:257:ARG:HD3	2.20	0.62
1:O:36:HIS:C	1:V:257:ARG:HD2	110.39	0.62
1:T:98:ASN:CB	1:V:316:ARG:HH22	103.00	0.62
1:V:404:GLN:HE22	1:V:443:ASP:N	1.97	0.62
1:S:36:HIS:CD2	1:3:34:VAL:HG22	2.34	0.62
1:4:191:PHE:CE1	1:4:470:HIS:HE1	2.16	0.62
1:6:379:TYR:HB2	1:6:392:GLU:HB3	1.82	0.62
1:C:34:VAL:O	1:C:34:VAL:HG12	2.00	0.62
1:D:257:ARG:HD2	1:F:36:HIS:C	84.63	0.62
1:E:34:VAL:HG12	1:E:34:VAL:O	2.00	0.62
1:I:34:VAL:O	1:I:34:VAL:HG12	2.00	0.62
1:J:37:SER:H	1:0:257:ARG:HG3	1.63	0.62
1:L:36:HIS:C	1:1:257:ARG:HD3	2.20	0.62
1:G:37:SER:H	1:M:257:ARG:HG3	157.82	0.62
1:N:244:PHE:CE2	1:N:246:PRO:CB	2.76	0.62
1:F:34:VAL:HG22	1:R:36:HIS:CD2	2.34	0.62
1:T:404:GLN:HE22	1:T:443:ASP:N	1.97	0.62
1:Z:34:VAL:HG12	1:Z:34:VAL:O	2.00	0.62
1:Z:93:GLY:C	1:Z:96:THR:HG23	2.20	0.62
1:A:242:ILE:O	1:B:529:ASN:ND2	27.58	0.62
1:D:257:ARG:HD3	1:F:36:HIS:C	85.32	0.62
1:F:93:GLY:C	1:F:96:THR:HG23	2.20	0.62
1:G:36:HIS:C	1:W:257:ARG:HD3	2.20	0.62
1:H:257:ARG:HG3	1:L:37:SER:H	104.98	0.62
1:J:34:VAL:HG22	1:Z:36:HIS:CD2	10.04	0.62
1:J:34:VAL:O	1:J:34:VAL:HG12	2.00	0.62
1:L:36:HIS:CE1	1:1:33:GLY:C	2.44	0.62
1:N:33:GLY:C	1:S:36:HIS:CE1	90.16	0.62
1:N:130:ILE:HD12	1:N:562:ALA:HB2	1.81	0.62
1:Q:379:TYR:HB2	1:Q:392:GLU:HB3	1.82	0.62
1:S:34:VAL:O	1:S:34:VAL:HG12	2.00	0.62
1:S:93:GLY:C	1:S:96:THR:HG23	2.20	0.62
1:U:37:SER:H	1:4:257:ARG:HG3	1.63	0.62
1:W:36:HIS:C	1:7:257:ARG:HD2	145.53	0.62
1:V:257:ARG:HD2	1:W:36:HIS:C	2.18	0.62
1:1:404:GLN:HE22	1:1:443:ASP:N	1.97	0.62
1:2:404:GLN:HE22	1:2:443:ASP:N	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:93:GLY:C	1:2:96:THR:HG23	2.20	0.62
1:4:146:GLU:O	1:4:511:TRP:HB2	1.99	0.62
1:5:404:GLN:HE22	1:5:443:ASP:N	1.97	0.62
1:6:93:GLY:C	1:6:96:THR:HG23	2.20	0.62
1:A:246:PRO:HG2	1:A:249:THR:HG21	1.82	0.62
1:A:379:TYR:HB2	1:A:392:GLU:HB3	1.82	0.62
1:C:404:GLN:HE22	1:C:443:ASP:N	1.97	0.62
1:D:316:ARG:HH22	1:E:98:ASN:CB	100.45	0.62
1:E:93:GLY:C	1:E:96:THR:HG23	2.20	0.62
1:G:316:ARG:HH22	1:I:98:ASN:CB	1.92	0.62
1:I:36:HIS:CE1	1:6:33:GLY:C	89.10	0.62
1:J:379:TYR:HB2	1:J:392:GLU:HB3	1.82	0.62
1:K:37:SER:H	1:L:257:ARG:HG3	1.64	0.62
1:M:257:ARG:HD3	1:2:36:HIS:C	2.20	0.62
1:N:246:PRO:HG2	1:N:249:THR:HG21	1.82	0.62
1:O:130:ILE:HD12	1:O:562:ALA:HB2	1.81	0.62
1:P:34:VAL:O	1:P:34:VAL:HG12	2.00	0.62
1:P:379:TYR:HB2	1:P:392:GLU:HB3	1.82	0.62
1:P:130:ILE:HD12	1:P:562:ALA:HB2	1.81	0.62
1:S:379:TYR:HB2	1:S:392:GLU:HB3	1.82	0.62
1:T:36:HIS:CE1	1:U:33:GLY:C	2.44	0.62
1:T:136:ILE:HG22	1:T:520:ALA:HB2	1.82	0.62
1:U:246:PRO:HG2	1:U:249:THR:HG21	1.82	0.62
1:U:379:TYR:HB2	1:U:392:GLU:HB3	1.82	0.62
1:S:328:ASN:ND2	1:U:471:ALA:HB2	2.15	0.62
1:U:93:GLY:C	1:U:96:THR:HG23	2.20	0.62
1:G:36:HIS:CE1	1:W:33:GLY:C	2.44	0.62
1:O:34:VAL:HG22	1:Y:36:HIS:CD2	153.82	0.62
1:Z:146:GLU:O	1:Z:511:TRP:HB2	1.99	0.62
1:2:136:ILE:HG22	1:2:520:ALA:HB2	1.82	0.61
1:Z:328:ASN:ND2	1:6:471:ALA:HB2	129.75	0.61
1:7:404:GLN:HE22	1:7:443:ASP:N	1.98	0.61
1:C:36:HIS:C	1:T:257:ARG:HD3	161.69	0.61
1:D:34:VAL:O	1:D:34:VAL:HG12	2.00	0.61
1:F:136:ILE:HG22	1:F:520:ALA:HB2	1.82	0.61
1:H:246:PRO:HG2	1:H:249:THR:HG21	1.82	0.61
1:I:136:ILE:HG22	1:I:520:ALA:HB2	1.82	0.61
1:I:191:PHE:CE1	1:I:470:HIS:HE1	2.16	0.61
1:I:404:GLN:HE22	1:I:443:ASP:N	1.97	0.61
1:J:404:GLN:HE22	1:J:443:ASP:N	1.97	0.61
1:K:34:VAL:HG12	1:K:34:VAL:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:379:TYR:HB2	1:K:392:GLU:HB3	1.82	0.61
1:L:37:SER:H	1:1:257:ARG:HG3	1.63	0.61
1:N:379:TYR:HB2	1:N:392:GLU:HB3	1.82	0.61
1:O:34:VAL:HG12	1:O:34:VAL:O	2.00	0.61
1:P:114:ALA:HB1	1:P:120:TRP:HE1	1.63	0.61
1:Q:34:VAL:O	1:Q:34:VAL:HG12	2.00	0.61
1:E:257:ARG:CG	1:Q:37:SER:HG	90.38	0.61
1:R:246:PRO:HG2	1:R:249:THR:HG21	1.82	0.61
1:R:34:VAL:O	1:R:34:VAL:HG12	2.00	0.61
1:V:379:TYR:HB2	1:V:392:GLU:HB3	1.82	0.61
1:V:36:HIS:C	1:W:257:ARG:HD3	20.09	0.61
1:X:246:PRO:HG2	1:X:249:THR:HG21	1.82	0.61
1:W:471:ALA:HB2	1:X:328:ASN:ND2	55.12	0.61
1:T:34:VAL:HG22	1:X:36:HIS:CD2	96.39	0.61
1:Y:34:VAL:O	1:Y:34:VAL:HG12	2.00	0.61
1:Z:34:VAL:HG22	1:0:36:HIS:CD2	2.35	0.61
1:M:471:ALA:HB2	1:1:328:ASN:ND2	2.15	0.61
1:2:379:TYR:HB2	1:2:392:GLU:HB3	1.82	0.61
1:3:379:TYR:HB2	1:3:392:GLU:HB3	1.82	0.61
1:4:379:TYR:HB2	1:4:392:GLU:HB3	1.82	0.61
1:4:136:ILE:HG22	1:4:520:ALA:HB2	1.82	0.61
1:5:379:TYR:HB2	1:5:392:GLU:HB3	1.82	0.61
1:6:404:GLN:HE22	1:6:443:ASP:N	1.97	0.61
1:A:338:TRP:O	1:B:414:GLN:N	85.61	0.61
1:A:136:ILE:HG22	1:A:520:ALA:HB2	1.82	0.61
1:B:136:ILE:HG22	1:B:520:ALA:HB2	1.82	0.61
1:C:93:GLY:C	1:C:96:THR:HG23	2.20	0.61
1:D:328:ASN:ND2	1:E:471:ALA:HB2	79.88	0.61
1:C:257:ARG:CG	1:D:37:SER:HG	1.96	0.61
1:F:379:TYR:HB2	1:F:392:GLU:HB3	1.82	0.61
1:G:328:ASN:ND2	1:H:471:ALA:HB2	55.13	0.61
1:G:379:TYR:HB2	1:G:392:GLU:HB3	1.82	0.61
1:H:191:PHE:CE1	1:H:470:HIS:HE1	2.16	0.61
1:H:328:ASN:ND2	1:W:471:ALA:HB2	2.15	0.61
1:H:37:SER:H	1:I:257:ARG:HG3	1.64	0.61
1:H:36:HIS:CD2	1:I:34:VAL:HG22	2.34	0.61
1:I:36:HIS:CD2	1:J:34:VAL:HG22	2.34	0.61
1:K:136:ILE:HG22	1:K:520:ALA:HB2	1.82	0.61
1:G:34:VAL:HG22	1:N:36:HIS:CD2	147.43	0.61
1:Q:246:PRO:HG2	1:Q:249:THR:HG21	1.82	0.61
1:R:312:GLN:OE1	1:R:324:THR:OG1	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:246:PRO:HG2	1:S:249:THR:HG21	1.82	0.61
1:P:34:VAL:HG22	1:U:36:HIS:CD2	96.38	0.61
1:T:257:ARG:HG3	1:X:37:SER:H	104.98	0.61
1:Y:312:GLN:OE1	1:Y:324:THR:OG1	2.19	0.61
1:X:471:ALA:HB2	1:Z:328:ASN:ND2	90.28	0.61
1:O:246:PRO:HG2	1:O:249:THR:HG21	1.82	0.61
1:3:404:GLN:HE22	1:3:443:ASP:N	1.97	0.61
1:5:136:ILE:HG22	1:5:520:ALA:HB2	1.82	0.61
1:A:130:ILE:HD12	1:A:562:ALA:HB2	1.81	0.61
1:B:242:ILE:O	1:5:529:ASN:ND2	205.62	0.61
1:C:328:ASN:ND2	1:D:471:ALA:HB2	79.88	0.61
1:D:93:GLY:C	1:D:96:THR:HG23	2.20	0.61
1:E:471:ALA:HB2	1:F:328:ASN:ND2	2.15	0.61
1:D:34:VAL:HG22	1:F:36:HIS:CD2	88.26	0.61
1:F:36:HIS:C	1:G:257:ARG:HD3	2.21	0.61
1:F:130:ILE:HD12	1:F:562:ALA:HB2	1.81	0.61
1:H:34:VAL:HG12	1:H:34:VAL:O	2.00	0.61
1:H:404:GLN:HE22	1:H:443:ASP:N	1.97	0.61
1:H:471:ALA:HB2	1:Y:328:ASN:ND2	2.16	0.61
1:I:471:ALA:HB2	1:2:328:ASN:ND2	155.10	0.61
1:J:136:ILE:HG22	1:J:520:ALA:HB2	1.82	0.61
1:K:247:LEU:O	1:K:248:GLU:CB	2.42	0.61
1:L:36:HIS:C	1:1:257:ARG:HD2	2.18	0.61
1:M:93:GLY:C	1:M:96:THR:HG23	2.20	0.61
1:O:244:PHE:CE2	1:O:246:PRO:CB	2.76	0.61
1:O:36:HIS:CE1	1:P:33:GLY:C	2.44	0.61
1:D:471:ALA:HB2	1:P:328:ASN:ND2	2.16	0.61
1:E:34:VAL:HG22	1:Q:36:HIS:CD2	90.62	0.61
1:R:379:TYR:HB2	1:R:392:GLU:HB3	1.82	0.61
1:S:114:ALA:HB1	1:S:120:TRP:HE1	1.63	0.61
1:S:136:ILE:HG22	1:S:520:ALA:HB2	1.82	0.61
1:S:247:LEU:O	1:S:248:GLU:CB	2.42	0.61
1:O:36:HIS:C	1:V:257:ARG:HD3	109.72	0.61
1:X:36:HIS:CD2	1:Y:34:VAL:HG22	2.35	0.61
1:X:379:TYR:HB2	1:X:392:GLU:HB3	1.82	0.61
1:Y:471:ALA:HB2	1:6:328:ASN:ND2	155.09	0.61
1:W:36:HIS:CD2	1:7:34:VAL:HG22	147.43	0.61
1:C:471:ALA:HB2	1:M:328:ASN:ND2	2.16	0.61
1:D:136:ILE:HG22	1:D:520:ALA:HB2	1.83	0.61
1:D:246:PRO:HG2	1:D:249:THR:HG21	1.82	0.61
1:C:34:VAL:HG22	1:D:36:HIS:CD2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:404:GLN:HE22	1:E:443:ASP:N	1.97	0.61
1:F:257:ARG:HD2	1:R:36:HIS:C	2.18	0.61
1:F:312:GLN:OE1	1:F:324:THR:OG1	2.19	0.61
1:F:328:ASN:ND2	1:T:471:ALA:HB2	129.75	0.61
1:G:34:VAL:O	1:G:34:VAL:HG12	2.00	0.61
1:G:93:GLY:C	1:G:96:THR:HG23	2.20	0.61
1:H:379:TYR:HB2	1:H:392:GLU:HB3	1.82	0.61
1:K:404:GLN:HE22	1:K:443:ASP:N	1.97	0.61
1:L:328:ASN:ND2	1:M:471:ALA:HB2	85.53	0.61
1:M:246:PRO:HG2	1:M:249:THR:HG21	1.82	0.61
1:M:312:GLN:OE1	1:M:324:THR:OG1	2.18	0.61
1:M:136:ILE:HG22	1:M:520:ALA:HB2	1.82	0.61
1:O:328:ASN:ND2	1:P:471:ALA:HB2	72.69	0.61
1:O:136:ILE:HG22	1:O:520:ALA:HB2	1.83	0.61
1:P:246:PRO:HG2	1:P:249:THR:HG21	1.82	0.61
1:P:136:ILE:HG22	1:P:520:ALA:HB2	1.82	0.61
1:Q:136:ILE:HG22	1:Q:520:ALA:HB2	1.82	0.61
1:Q:37:SER:H	1:S:257:ARG:HG3	1.63	0.61
1:Q:471:ALA:HB2	1:S:328:ASN:ND2	79.88	0.61
1:L:34:VAL:HG22	1:R:36:HIS:CD2	149.08	0.61
1:R:471:ALA:HB2	1:U:328:ASN:ND2	2.16	0.61
1:U:136:ILE:HG22	1:U:520:ALA:HB2	1.82	0.61
1:V:312:GLN:OE1	1:V:324:THR:OG1	2.19	0.61
1:V:93:GLY:C	1:V:96:THR:HG23	2.20	0.61
1:X:34:VAL:O	1:X:34:VAL:HG12	2.00	0.61
1:Y:257:ARG:HG3	1:7:37:SER:H	110.74	0.61
1:Z:246:PRO:HG2	1:Z:249:THR:HG21	1.82	0.61
1:0:34:VAL:O	1:0:34:VAL:HG12	2.00	0.61
1:0:379:TYR:HB2	1:0:392:GLU:HB3	1.82	0.61
1:1:312:GLN:OE1	1:1:324:THR:OG1	2.18	0.61
1:I:257:ARG:HD3	1:1:36:HIS:C	109.90	0.61
1:2:312:GLN:OE1	1:2:324:THR:OG1	2.19	0.61
1:2:130:ILE:HD12	1:2:562:ALA:HB2	1.81	0.61
1:4:404:GLN:HE22	1:4:443:ASP:N	1.97	0.61
1:7:312:GLN:OE1	1:7:324:THR:OG1	2.19	0.61
1:B:34:VAL:O	1:B:34:VAL:HG12	2.00	0.61
1:B:379:TYR:HB2	1:B:392:GLU:HB3	1.82	0.61
1:B:86:PRO:HG3	1:B:95:ASP:HB2	1.83	0.61
1:C:246:PRO:HG2	1:C:249:THR:HG21	1.82	0.61
1:C:312:GLN:OE1	1:C:324:THR:OG1	2.19	0.61
1:C:37:SER:H	1:T:257:ARG:HG3	161.39	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:312:GLN:OE1	1:D:324:THR:OG1	2.19	0.61
1:A:257:ARG:CG	1:E:37:SER:HG	24.67	0.61
1:G:246:PRO:HG2	1:G:249:THR:HG21	1.82	0.61
1:K:36:HIS:C	1:L:257:ARG:HD3	2.21	0.61
1:L:34:VAL:HG12	1:L:34:VAL:O	2.00	0.61
1:L:379:TYR:HB2	1:L:392:GLU:HB3	1.82	0.61
1:M:244:PHE:CE2	1:M:246:PRO:CB	2.76	0.61
1:P:247:LEU:O	1:P:248:GLU:CB	2.42	0.61
1:P:404:GLN:HE22	1:P:443:ASP:N	1.97	0.61
1:P:36:HIS:CD2	1:Q:34:VAL:HG22	2.35	0.61
1:R:328:ASN:ND2	1:S:471:ALA:HB2	2.16	0.61
1:T:36:HIS:CD2	1:5:34:VAL:HG22	94.87	0.61
1:T:37:SER:H	1:U:257:ARG:HG3	1.63	0.61
1:W:379:TYR:HB2	1:W:392:GLU:HB3	1.82	0.61
1:Y:136:ILE:HG22	1:Y:520:ALA:HB2	1.82	0.61
1:J:257:ARG:HG3	1:Z:37:SER:H	22.14	0.61
1:1:130:ILE:HD12	1:1:562:ALA:HB2	1.81	0.61
1:1:86:PRO:HG3	1:1:95:ASP:HB2	1.83	0.61
1:4:247:LEU:O	1:4:248:GLU:CB	2.42	0.61
1:X:471:ALA:HB2	1:4:328:ASN:ND2	2.16	0.61
1:4:130:ILE:HD12	1:4:562:ALA:HB2	1.81	0.61
1:5:130:ILE:HD12	1:5:562:ALA:HB2	1.81	0.61
1:I:37:SER:H	1:6:257:ARG:HG3	98.35	0.61
1:A:86:PRO:HG3	1:A:95:ASP:HB2	1.83	0.61
1:B:257:ARG:CG	1:C:37:SER:HG	1.94	0.61
1:C:86:PRO:HG3	1:C:95:ASP:HB2	1.83	0.61
1:E:246:PRO:HG2	1:E:249:THR:HG21	1.82	0.61
1:G:136:ILE:HG22	1:G:520:ALA:HB2	1.82	0.61
1:G:312:GLN:OE1	1:G:324:THR:OG1	2.19	0.61
1:F:257:ARG:HG3	1:H:37:SER:H	92.53	0.61
1:H:86:PRO:HG3	1:H:95:ASP:HB2	1.83	0.61
1:I:36:HIS:C	1:J:257:ARG:HD3	2.20	0.61
1:I:86:PRO:HG3	1:I:95:ASP:HB2	1.83	0.61
1:I:36:HIS:CE1	1:J:33:GLY:C	2.44	0.61
1:J:36:HIS:C	1:O:257:ARG:HD3	2.20	0.61
1:J:36:HIS:CD2	1:K:34:VAL:HG22	86.07	0.61
1:J:36:HIS:C	1:K:257:ARG:HD3	83.71	0.61
1:K:36:HIS:CE1	1:S:33:GLY:C	152.50	0.61
1:L:312:GLN:OE1	1:L:324:THR:OG1	2.19	0.61
1:M:34:VAL:HG22	1:2:36:HIS:CD2	2.34	0.61
1:M:37:SER:H	1:2:257:ARG:HG3	21.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:257:ARG:HD3	1:S:36:HIS:C	100.28	0.61
1:O:257:ARG:HD3	1:3:36:HIS:C	2.21	0.61
1:G:471:ALA:HB2	1:O:328:ASN:ND2	172.76	0.61
1:P:86:PRO:HG3	1:P:95:ASP:HB2	1.83	0.61
1:R:136:ILE:HG22	1:R:520:ALA:HB2	1.82	0.61
1:N:257:ARG:HD2	1:S:36:HIS:C	99.85	0.61
1:S:37:SER:H	1:3:257:ARG:HG3	1.64	0.61
1:S:86:PRO:HG3	1:S:95:ASP:HB2	1.83	0.61
1:T:86:PRO:HG3	1:T:95:ASP:HB2	1.83	0.61
1:V:246:PRO:HG2	1:V:249:THR:HG21	1.82	0.61
1:U:328:ASN:ND2	1:V:471:ALA:HB2	55.12	0.61
1:V:36:HIS:CE1	1:W:33:GLY:C	10.52	0.61
1:W:136:ILE:HG22	1:W:520:ALA:HB2	1.82	0.61
1:X:86:PRO:HG3	1:X:95:ASP:HB2	1.83	0.61
1:Y:328:ASN:ND2	1:Z:471:ALA:HB2	55.12	0.61
1:O:257:ARG:HD2	1:Y:36:HIS:C	159.51	0.61
1:Z:136:ILE:HG22	1:Z:520:ALA:HB2	1.83	0.61
1:Z:257:ARG:HD3	1:0:36:HIS:C	2.21	0.61
1:1:316:ARG:HA	1:1:419:ASP:HB3	1.83	0.61
1:T:36:HIS:C	1:5:257:ARG:HD3	100.30	0.61
1:5:34:VAL:O	1:5:34:VAL:HG12	2.00	0.61
1:X:257:ARG:HD3	1:5:36:HIS:C	2.20	0.61
1:6:312:GLN:OE1	1:6:324:THR:OG1	2.19	0.61
1:B:312:GLN:OE1	1:B:324:THR:OG1	2.19	0.61
1:C:136:ILE:HG22	1:C:520:ALA:HB2	1.82	0.61
1:E:86:PRO:HG3	1:E:95:ASP:HB2	1.83	0.61
1:H:312:GLN:OE1	1:H:324:THR:OG1	2.19	0.61
1:I:93:GLY:C	1:I:96:THR:HG23	2.20	0.61
1:K:328:ASN:ND2	1:L:471:ALA:HB2	72.70	0.61
1:L:246:PRO:HG2	1:L:249:THR:HG21	1.82	0.61
1:H:34:VAL:HG22	1:L:36:HIS:CD2	96.39	0.61
1:M:247:LEU:O	1:M:248:GLU:CB	2.42	0.61
1:D:528:TRP:CB	1:N:246:PRO:CG	2.65	0.61
1:N:34:VAL:HG12	1:N:34:VAL:O	2.00	0.61
1:N:471:ALA:HB2	1:P:328:ASN:ND2	33.03	0.61
1:N:136:ILE:HG22	1:N:520:ALA:HB2	1.83	0.61
1:P:257:ARG:HG3	1:U:37:SER:H	104.98	0.61
1:P:36:HIS:C	1:Q:257:ARG:HD2	2.18	0.61
1:E:328:ASN:ND2	1:Q:471:ALA:HB2	2.16	0.61
1:T:312:GLN:OE1	1:T:324:THR:OG1	2.19	0.61
1:U:312:GLN:OE1	1:U:324:THR:OG1	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:34:VAL:HG22	1:W:36:HIS:CD2	2.34	0.61
1:R:257:ARG:HG3	1:V:37:SER:H	1.64	0.61
1:W:244:PHE:CE2	1:W:246:PRO:CB	2.76	0.61
1:X:257:ARG:HG3	1:5:37:SER:H	1.63	0.61
1:Y:86:PRO:HG3	1:Y:95:ASP:HB2	1.83	0.61
1:Z:86:PRO:HG3	1:Z:95:ASP:HB2	1.83	0.61
1:0:312:GLN:OE1	1:0:324:THR:OG1	2.18	0.61
1:K:328:ASN:ND2	1:0:471:ALA:HB2	2.16	0.61
1:C:328:ASN:ND2	1:1:471:ALA:HB2	2.16	0.61
1:1:136:ILE:HG22	1:1:520:ALA:HB2	1.82	0.61
1:6:246:PRO:HG2	1:6:249:THR:HG21	1.82	0.61
1:Y:34:VAL:HG22	1:7:36:HIS:CD2	100.05	0.61
1:7:136:ILE:HG22	1:7:520:ALA:HB2	1.82	0.61
1:A:243:GLN:HG2	1:B:527:GLN:NE2	26.75	0.61
1:A:312:GLN:OE1	1:A:324:THR:OG1	2.19	0.61
1:B:246:PRO:HG2	1:B:249:THR:HG21	1.82	0.61
1:C:244:PHE:CE2	1:C:246:PRO:CB	2.76	0.61
1:C:316:ARG:HA	1:C:419:ASP:HB3	1.83	0.61
1:D:379:TYR:HB2	1:D:392:GLU:HB3	1.82	0.61
1:D:257:ARG:HD2	1:E:36:HIS:C	2.18	0.61
1:D:34:VAL:HG22	1:E:36:HIS:CD2	2.34	0.61
1:D:257:ARG:HG3	1:E:37:SER:H	1.63	0.61
1:E:136:ILE:HG22	1:E:520:ALA:HB2	1.82	0.61
1:F:316:ARG:HA	1:F:419:ASP:HB3	1.83	0.61
1:H:244:PHE:CE2	1:H:246:PRO:CB	2.76	0.61
1:I:246:PRO:HG2	1:I:249:THR:HG21	1.82	0.61
1:I:312:GLN:OE1	1:I:324:THR:OG1	2.19	0.61
1:K:471:ALA:HB2	1:M:328:ASN:ND2	103.79	0.61
1:K:86:PRO:HG3	1:K:95:ASP:HB2	1.83	0.61
1:M:34:VAL:O	1:M:34:VAL:HG12	2.00	0.61
1:N:36:HIS:C	1:Z:257:ARG:HD2	159.51	0.61
1:N:37:SER:H	1:Z:257:ARG:HG3	161.85	0.61
1:O:34:VAL:HG22	1:3:36:HIS:CD2	2.35	0.61
1:P:93:GLY:C	1:P:96:THR:HG23	2.20	0.61
1:Q:312:GLN:OE1	1:Q:324:THR:OG1	2.18	0.61
1:Q:86:PRO:HG3	1:Q:95:ASP:HB2	1.83	0.61
1:T:246:PRO:HG2	1:T:249:THR:HG21	1.82	0.61
1:U:34:VAL:O	1:U:34:VAL:HG12	2.00	0.61
1:V:136:ILE:HG22	1:V:520:ALA:HB2	1.82	0.61
1:X:312:GLN:OE1	1:X:324:THR:OG1	2.19	0.61
1:X:36:HIS:C	1:Y:257:ARG:HD3	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:312:GLN:OE1	1:Z:324:THR:OG1	2.19	0.61
1:4:312:GLN:OE1	1:4:324:THR:OG1	2.19	0.61
1:7:246:PRO:HG2	1:7:249:THR:HG21	1.82	0.61
1:A:34:VAL:HG12	1:A:34:VAL:O	2.00	0.61
1:A:37:SER:HG	1:E:257:ARG:CG	1.95	0.61
1:C:191:PHE:CE1	1:C:470:HIS:HE1	2.16	0.61
1:C:471:ALA:HB2	1:E:328:ASN:ND2	115.29	0.61
1:K:244:PHE:HE2	1:K:246:PRO:HB3	1.63	0.61
1:K:312:GLN:OE1	1:K:324:THR:OG1	2.18	0.61
1:N:86:PRO:HG3	1:N:95:ASP:HB2	1.83	0.61
1:O:316:ARG:HA	1:O:419:ASP:HB3	1.83	0.61
1:O:86:PRO:HG3	1:O:95:ASP:HB2	1.83	0.61
1:P:312:GLN:OE1	1:P:324:THR:OG1	2.19	0.61
1:T:244:PHE:CE2	1:T:246:PRO:CB	2.76	0.61
1:T:471:ALA:HB2	1:V:328:ASN:ND2	90.28	0.61
1:T:93:GLY:C	1:T:96:THR:HG23	2.20	0.61
1:R:34:VAL:HG22	1:V:36:HIS:CD2	2.35	0.61
1:X:244:PHE:CE2	1:X:246:PRO:CB	2.76	0.61
1:Y:379:TYR:HB2	1:Y:392:GLU:HB3	1.82	0.61
1:Z:379:TYR:HB2	1:Z:392:GLU:HB3	1.82	0.61
1:Z:257:ARG:HD2	1:O:36:HIS:C	2.18	0.61
1:O:86:PRO:HG3	1:O:95:ASP:HB2	1.83	0.61
1:I:257:ARG:HG3	1:1:37:SER:H	110.74	0.61
1:2:246:PRO:HG2	1:2:249:THR:HG21	1.82	0.61
1:3:86:PRO:HG3	1:3:95:ASP:HB2	1.83	0.61
1:A:328:ASN:ND2	1:G:471:ALA:HB2	2.16	0.61
1:A:316:ARG:HA	1:A:419:ASP:HB3	1.83	0.61
1:B:316:ARG:HA	1:B:419:ASP:HB3	1.83	0.61
1:E:244:PHE:CE2	1:E:246:PRO:CB	2.76	0.61
1:E:312:GLN:OE1	1:E:324:THR:OG1	2.19	0.61
1:H:257:ARG:HD3	1:Z:36:HIS:C	2.20	0.61
1:J:246:PRO:HG2	1:J:249:THR:HG21	1.82	0.61
1:J:86:PRO:HG3	1:J:95:ASP:HB2	1.83	0.61
1:K:36:HIS:CD2	1:L:34:VAL:HG22	2.35	0.61
1:M:379:TYR:HB2	1:M:392:GLU:HB3	1.82	0.61
1:O:246:PRO:HG2	1:O:249:THR:HG21	1.82	0.61
1:O:257:ARG:HD3	1:Y:36:HIS:C	159.85	0.61
1:H:328:ASN:ND2	1:O:471:ALA:HB2	177.57	0.61
1:P:404:GLN:HE22	1:P:443:ASP:H	1.49	0.61
1:R:191:PHE:CE1	1:R:470:HIS:HE1	2.16	0.61
1:Q:528:TRP:CB	1:R:246:PRO:CG	44.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:257:ARG:HD3	1:V:36:HIS:C	2.21	0.61
1:F:257:ARG:HD3	1:R:36:HIS:C	2.20	0.61
1:K:36:HIS:C	1:S:257:ARG:HD2	157.16	0.61
1:S:312:GLN:OE1	1:S:324:THR:OG1	2.19	0.61
1:H:528:TRP:CB	1:W:246:PRO:CG	2.65	0.61
1:W:93:GLY:C	1:W:96:THR:HG23	2.20	0.61
1:X:257:ARG:HD3	1:Y:36:HIS:C	20.09	0.61
1:Y:93:GLY:C	1:Y:96:THR:HG23	2.20	0.61
1:3:246:PRO:HG2	1:3:249:THR:HG21	1.82	0.60
1:5:316:ARG:HA	1:5:419:ASP:HB3	1.83	0.60
1:B:257:ARG:HD3	1:C:36:HIS:C	2.20	0.60
1:A:339:GLN:HE22	1:B:435:THR:HG21	73.36	0.60
1:E:191:PHE:CE1	1:E:470:HIS:HE1	2.16	0.60
1:F:246:PRO:HG2	1:F:249:THR:HG21	1.82	0.60
1:G:328:ASN:ND2	1:I:471:ALA:HB2	2.16	0.60
1:J:328:ASN:ND2	1:L:471:ALA:HB2	2.16	0.60
1:K:246:PRO:HG2	1:K:249:THR:HG21	1.82	0.60
1:L:316:ARG:HA	1:L:419:ASP:HB3	1.83	0.60
1:G:36:HIS:CD2	1:M:34:VAL:HG22	152.36	0.60
1:M:36:HIS:C	1:2:257:ARG:HD3	20.09	0.60
1:M:36:HIS:C	1:N:257:ARG:HD3	2.20	0.60
1:N:247:LEU:O	1:N:248:GLU:CB	2.42	0.60
1:G:257:ARG:HD3	1:N:36:HIS:C	146.72	0.60
1:Q:36:HIS:C	1:S:257:ARG:HD2	2.18	0.60
1:N:34:VAL:HG22	1:S:36:HIS:CD2	94.85	0.60
1:V:316:ARG:HA	1:V:419:ASP:HB3	1.83	0.60
1:X:136:ILE:HG22	1:X:520:ALA:HB2	1.83	0.60
1:X:36:HIS:C	1:Y:257:ARG:HD2	2.18	0.60
1:H:98:ASN:CB	1:Y:316:ARG:HH22	1.92	0.60
1:1:191:PHE:CE1	1:1:470:HIS:HE1	2.16	0.60
1:2:316:ARG:HA	1:2:419:ASP:HB3	1.83	0.60
1:4:246:PRO:HG2	1:4:249:THR:HG21	1.82	0.60
1:4:404:GLN:HE22	1:4:443:ASP:H	1.49	0.60
1:7:380:ASP:OD1	1:7:391:ARG:NH2	2.30	0.60
1:7:379:TYR:HB2	1:7:392:GLU:HB3	1.82	0.60
1:A:380:ASP:OD1	1:A:391:ARG:NH2	2.30	0.60
1:B:257:ARG:HD2	1:C:36:HIS:C	2.18	0.60
1:D:316:ARG:HA	1:D:419:ASP:HB3	1.83	0.60
1:D:328:ASN:ND2	1:N:471:ALA:HB2	2.16	0.60
1:E:379:TYR:HB2	1:E:392:GLU:HB3	1.82	0.60
1:F:86:PRO:HG3	1:F:95:ASP:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:316:ARG:HA	1:G:419:ASP:HB3	1.83	0.60
1:F:257:ARG:HD3	1:H:36:HIS:C	94.04	0.60
1:H:136:ILE:HG22	1:H:520:ALA:HB2	1.83	0.60
1:I:244:PHE:CE2	1:I:246:PRO:CB	2.76	0.60
1:J:316:ARG:HA	1:J:419:ASP:HB3	1.83	0.60
1:N:312:GLN:OE1	1:N:324:THR:OG1	2.19	0.60
1:N:404:GLN:HE22	1:N:443:ASP:H	1.50	0.60
1:O:257:ARG:HD2	1:3:36:HIS:C	2.18	0.60
1:O:312:GLN:OE1	1:O:324:THR:OG1	2.19	0.60
1:O:379:TYR:HB2	1:O:392:GLU:HB3	1.82	0.60
1:P:191:PHE:CE1	1:P:470:HIS:HE1	2.16	0.60
1:O:36:HIS:C	1:P:257:ARG:HD3	2.20	0.60
1:N:328:ASN:ND2	1:P:471:ALA:HB2	2.16	0.60
1:T:328:ASN:ND2	1:U:471:ALA:HB2	72.70	0.60
1:T:33:GLY:C	1:X:36:HIS:CE1	99.01	0.60
1:Z:316:ARG:HA	1:Z:419:ASP:HB3	1.83	0.60
1:1:244:PHE:HE2	1:1:246:PRO:HB3	1.63	0.60
1:O:33:GLY:C	1:3:36:HIS:CE1	2.44	0.60
1:3:404:GLN:HE22	1:3:443:ASP:H	1.50	0.60
1:V:328:ASN:ND2	1:4:471:ALA:HB2	2.16	0.60
1:5:86:PRO:HG3	1:5:95:ASP:HB2	1.83	0.60
1:6:34:VAL:O	1:6:34:VAL:HG12	2.00	0.60
1:7:316:ARG:HA	1:7:419:ASP:HB3	1.83	0.60
1:B:186:TRP:NE1	1:B:188:ALA:O	2.35	0.60
1:C:186:TRP:NE1	1:C:188:ALA:O	2.35	0.60
1:C:379:TYR:HB2	1:C:392:GLU:HB3	1.82	0.60
1:D:36:HIS:C	1:R:257:ARG:HD3	109.90	0.60
1:F:34:VAL:HG12	1:F:34:VAL:O	2.00	0.60
1:G:86:PRO:HG3	1:G:95:ASP:HB2	1.83	0.60
1:L:186:TRP:NE1	1:L:188:ALA:O	2.35	0.60
1:L:136:ILE:HG22	1:L:520:ALA:HB2	1.82	0.60
1:N:186:TRP:NE1	1:N:188:ALA:O	2.35	0.60
1:O:244:PHE:HE2	1:O:246:PRO:HB3	1.63	0.60
1:P:186:TRP:NE1	1:P:188:ALA:O	2.35	0.60
1:Q:186:TRP:NE1	1:Q:188:ALA:O	2.35	0.60
1:Q:328:ASN:ND2	1:R:471:ALA:HB2	55.12	0.60
1:Q:316:ARG:HA	1:Q:419:ASP:HB3	1.83	0.60
1:Q:404:GLN:HE22	1:Q:443:ASP:H	1.50	0.60
1:R:184:MET:HG3	1:R:483:PHE:HE2	1.67	0.60
1:K:36:HIS:C	1:S:257:ARG:HD3	157.66	0.60
1:S:37:SER:HG	1:3:257:ARG:CG	1.95	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:36:HIS:C	1:U:257:ARG:HD2	144.23	0.60
1:V:34:VAL:O	1:V:34:VAL:HG12	2.00	0.60
1:W:34:VAL:O	1:W:34:VAL:HG12	2.00	0.60
1:W:404:GLN:HE22	1:W:443:ASP:H	1.49	0.60
1:Y:246:PRO:HG2	1:Y:249:THR:HG21	1.82	0.60
1:Y:257:ARG:HD3	1:7:36:HIS:C	109.90	0.60
1:Y:184:MET:HG3	1:Y:483:PHE:HE2	1.67	0.60
1:Z:184:MET:HG3	1:Z:483:PHE:HE2	1.67	0.60
1:X:98:ASN:CB	1:Z:316:ARG:HH22	103.00	0.60
1:1:186:TRP:NE1	1:1:188:ALA:O	2.35	0.60
1:2:186:TRP:NE1	1:2:188:ALA:O	2.35	0.60
1:4:34:VAL:HG12	1:4:34:VAL:O	2.00	0.60
1:5:380:ASP:OD1	1:5:391:ARG:NH2	2.30	0.60
1:E:186:TRP:NE1	1:E:188:ALA:O	2.35	0.60
1:E:404:GLN:HE22	1:E:443:ASP:H	1.50	0.60
1:F:186:TRP:NE1	1:F:188:ALA:O	2.35	0.60
1:G:186:TRP:NE1	1:G:188:ALA:O	2.35	0.60
1:H:257:ARG:HD3	1:L:36:HIS:C	102.48	0.60
1:H:36:HIS:C	1:I:257:ARG:HD3	2.21	0.60
1:I:379:TYR:HB2	1:I:392:GLU:HB3	1.82	0.60
1:K:184:MET:HG3	1:K:483:PHE:HE2	1.67	0.60
1:K:37:SER:H	1:S:257:ARG:HG3	158.01	0.60
1:K:404:GLN:HE22	1:K:443:ASP:H	1.50	0.60
1:N:328:ASN:ND2	1:O:471:ALA:HB2	55.12	0.60
1:O:184:MET:HG3	1:O:483:PHE:HE2	1.66	0.60
1:O:186:TRP:NE1	1:O:188:ALA:O	2.35	0.60
1:Q:247:LEU:O	1:Q:248:GLU:CB	2.42	0.60
1:R:186:TRP:NE1	1:R:188:ALA:O	2.35	0.60
1:S:184:MET:HG3	1:S:483:PHE:HE2	1.67	0.60
1:S:316:ARG:HA	1:S:419:ASP:HB3	1.83	0.60
1:S:36:HIS:C	1:3:257:ARG:HD3	2.21	0.60
1:S:404:GLN:HE22	1:S:443:ASP:H	1.50	0.60
1:T:404:GLN:HE22	1:T:443:ASP:H	1.50	0.60
1:A:36:HIS:C	1:U:257:ARG:HD3	145.33	0.60
1:U:316:ARG:HA	1:U:419:ASP:HB3	1.83	0.60
1:V:184:MET:HG3	1:V:483:PHE:HE2	1.67	0.60
1:X:191:PHE:CE1	1:X:470:HIS:HE1	2.16	0.60
1:Y:186:TRP:NE1	1:Y:188:ALA:O	2.35	0.60
1:Y:404:GLN:HE22	1:Y:443:ASP:H	1.50	0.60
1:Z:186:TRP:NE1	1:Z:188:ALA:O	2.35	0.60
1:J:257:ARG:HD3	1:Z:36:HIS:C	19.94	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:404:GLN:HE22	1:Z:443:ASP:H	1.50	0.60
1:2:34:VAL:HG12	1:2:34:VAL:O	2.00	0.60
1:3:191:PHE:CE1	1:3:470:HIS:HE1	2.16	0.60
1:3:312:GLN:OE1	1:3:324:THR:OG1	2.19	0.60
1:5:186:TRP:NE1	1:5:188:ALA:O	2.35	0.60
1:5:312:GLN:OE1	1:5:324:THR:OG1	2.19	0.60
1:7:184:MET:HG3	1:7:483:PHE:HE2	1.67	0.60
1:K:471:ALA:HB2	1:7:328:ASN:ND2	2.16	0.60
1:A:186:TRP:NE1	1:A:188:ALA:O	2.35	0.60
1:A:328:ASN:ND2	1:5:471:ALA:HB2	147.29	0.60
1:A:404:GLN:HE22	1:A:443:ASP:H	1.50	0.60
1:A:471:ALA:HB2	1:I:328:ASN:ND2	2.16	0.60
1:B:328:ASN:ND2	1:J:471:ALA:HB2	2.15	0.60
1:C:244:PHE:HE2	1:C:246:PRO:HB3	1.63	0.60
1:D:184:MET:HG3	1:D:483:PHE:HE2	1.66	0.60
1:D:186:TRP:NE1	1:D:188:ALA:O	2.35	0.60
1:F:184:MET:HG3	1:F:483:PHE:HE2	1.66	0.60
1:G:404:GLN:HE22	1:G:443:ASP:H	1.49	0.60
1:J:186:TRP:NE1	1:J:188:ALA:O	2.35	0.60
1:J:36:HIS:C	1:K:257:ARG:HD2	83.25	0.60
1:J:404:GLN:HE22	1:J:443:ASP:H	1.49	0.60
1:P:184:MET:HG3	1:P:483:PHE:HE2	1.67	0.60
1:P:244:PHE:CE2	1:P:246:PRO:CB	2.76	0.60
1:P:257:ARG:HD3	1:U:36:HIS:C	102.48	0.60
1:F:471:ALA:HB2	1:Q:328:ASN:ND2	2.16	0.60
1:S:186:TRP:NE1	1:S:188:ALA:O	2.35	0.60
1:T:379:TYR:HB2	1:T:392:GLU:HB3	1.82	0.60
1:U:186:TRP:NE1	1:U:188:ALA:O	2.35	0.60
1:U:404:GLN:HE22	1:U:443:ASP:H	1.49	0.60
1:U:86:PRO:HG3	1:U:95:ASP:HB2	1.83	0.60
1:V:380:ASP:OD1	1:V:391:ARG:NH2	2.30	0.60
1:V:404:GLN:HE22	1:V:443:ASP:H	1.50	0.60
1:V:86:PRO:HG3	1:V:95:ASP:HB2	1.83	0.60
1:W:36:HIS:C	1:7:257:ARG:HD3	146.73	0.60
1:T:257:ARG:HD2	1:X:36:HIS:C	103.12	0.60
1:0:244:PHE:CE2	1:0:246:PRO:CB	2.76	0.60
1:1:93:GLY:C	1:1:96:THR:HG23	2.20	0.60
1:2:184:MET:HG3	1:2:483:PHE:HE2	1.67	0.60
1:F:471:ALA:HB2	1:3:328:ASN:ND2	139.95	0.60
1:B:471:ALA:HB2	1:5:328:ASN:ND2	196.57	0.60
1:6:404:GLN:HE22	1:6:443:ASP:H	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:471:ALA:HB2	1:L:328:ASN:ND2	2.16	0.60
1:H:186:TRP:NE1	1:H:188:ALA:O	2.35	0.60
1:H:36:HIS:CE1	1:I:33:GLY:C	2.45	0.60
1:I:404:GLN:HE22	1:I:443:ASP:H	1.49	0.60
1:L:257:ARG:HD3	1:R:36:HIS:C	152.00	0.60
1:M:186:TRP:NE1	1:M:188:ALA:O	2.35	0.60
1:S:244:PHE:CE2	1:S:246:PRO:CB	2.76	0.60
1:T:186:TRP:NE1	1:T:188:ALA:O	2.35	0.60
1:T:316:ARG:HA	1:T:419:ASP:HB3	1.83	0.60
1:T:328:ASN:ND2	1:3:471:ALA:HB2	2.16	0.60
1:V:186:TRP:NE1	1:V:188:ALA:O	2.35	0.60
1:T:257:ARG:HD3	1:X:36:HIS:C	102.48	0.60
1:W:328:ASN:ND2	1:Y:471:ALA:HB2	2.16	0.60
1:Z:244:PHE:CE2	1:Z:246:PRO:CB	2.76	0.60
1:5:246:PRO:HG2	1:5:249:THR:HG21	1.82	0.60
1:7:86:PRO:HG3	1:7:95:ASP:HB2	1.83	0.60
1:B:404:GLN:HE22	1:B:443:ASP:H	1.50	0.60
1:C:184:MET:HG3	1:C:483:PHE:HE2	1.67	0.60
1:E:184:MET:HG3	1:E:483:PHE:HE2	1.67	0.60
1:E:257:ARG:HG3	1:Q:37:SER:H	89.32	0.60
1:E:316:ARG:HA	1:E:419:ASP:HB3	1.83	0.60
1:A:257:ARG:HD3	1:E:36:HIS:C	20.08	0.60
1:H:276:LEU:O	1:H:561:ARG:N	2.35	0.60
1:I:186:TRP:NE1	1:I:188:ALA:O	2.35	0.60
1:H:36:HIS:C	1:I:257:ARG:HD2	2.18	0.60
1:I:316:ARG:HA	1:I:419:ASP:HB3	1.83	0.60
1:I:328:ASN:ND2	1:J:471:ALA:HB2	72.70	0.60
1:J:247:LEU:O	1:J:248:GLU:CB	2.42	0.60
1:J:312:GLN:OE1	1:J:324:THR:OG1	2.19	0.60
1:K:289:CYS:HB2	1:L:104:LYS:HE2	60.87	0.60
1:K:316:ARG:HA	1:K:419:ASP:HB3	1.83	0.60
1:K:316:ARG:HH21	1:0:98:ASN:HB2	1.67	0.60
1:O:247:LEU:O	1:O:248:GLU:CB	2.42	0.60
1:V:257:ARG:HD3	1:W:36:HIS:C	2.20	0.60
1:W:109:TRP:HZ3	1:W:485:LYS:HB3	1.67	0.60
1:0:136:ILE:HG22	1:0:520:ALA:HB2	1.83	0.60
1:1:247:LEU:O	1:1:248:GLU:CB	2.42	0.60
1:2:404:GLN:HE22	1:2:443:ASP:H	1.50	0.60
1:T:289:CYS:HB2	1:3:104:LYS:HE2	1.84	0.60
1:4:109:TRP:HZ3	1:4:485:LYS:HB3	1.67	0.60
1:6:136:ILE:HG22	1:6:520:ALA:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:328:ASN:ND2	1:7:471:ALA:HB2	2.16	0.60
1:E:276:LEU:O	1:E:561:ARG:N	2.35	0.60
1:F:404:GLN:HE22	1:F:443:ASP:H	1.50	0.60
1:G:184:MET:HG3	1:G:483:PHE:HE2	1.67	0.60
1:I:380:ASP:OD1	1:I:391:ARG:NH2	2.30	0.60
1:I:184:MET:HG3	1:I:483:PHE:HE2	1.67	0.60
1:J:191:PHE:CE1	1:J:470:HIS:HE1	2.16	0.60
1:L:184:MET:HG3	1:L:483:PHE:HE2	1.67	0.60
1:M:184:MET:HG3	1:M:483:PHE:HE2	1.67	0.60
1:G:36:HIS:C	1:M:257:ARG:HD3	157.90	0.60
1:M:276:LEU:O	1:M:561:ARG:N	2.35	0.60
1:O:36:HIS:C	1:P:257:ARG:HD2	2.18	0.60
1:Q:184:MET:HG3	1:Q:483:PHE:HE2	1.67	0.60
1:S:276:LEU:O	1:S:561:ARG:N	2.35	0.60
1:X:37:SER:H	1:Y:257:ARG:HG3	1.64	0.60
1:Y:316:ARG:HA	1:Y:419:ASP:HB3	1.83	0.60
1:W:328:ASN:ND2	1:Z:471:ALA:HB2	55.32	0.60
1:0:316:ARG:HA	1:0:419:ASP:HB3	1.83	0.60
1:1:246:PRO:HG2	1:1:249:THR:HG21	1.82	0.60
1:1:34:VAL:O	1:1:34:VAL:HG12	2.00	0.60
1:6:186:TRP:NE1	1:6:188:ALA:O	2.35	0.60
1:0:289:CYS:HB2	1:7:104:LYS:HE2	1.84	0.60
1:7:404:GLN:HE22	1:7:443:ASP:H	1.50	0.60
1:C:276:LEU:O	1:C:561:ARG:N	2.35	0.60
1:H:404:GLN:HE22	1:H:443:ASP:H	1.49	0.60
1:I:244:PHE:HE2	1:I:246:PRO:HB3	1.63	0.60
1:A:104:LYS:HE2	1:I:289:CYS:HB2	1.83	0.60
1:K:109:TRP:HZ3	1:K:485:LYS:HB3	1.67	0.60
1:M:316:ARG:HA	1:M:419:ASP:HB3	1.83	0.60
1:N:184:MET:HG3	1:N:483:PHE:HE2	1.67	0.60
1:P:276:LEU:O	1:P:561:ARG:N	2.35	0.60
1:E:257:ARG:HD3	1:Q:36:HIS:C	90.16	0.60
1:R:316:ARG:HA	1:R:419:ASP:HB3	1.83	0.60
1:V:104:LYS:HE2	1:X:289:CYS:HB2	1.84	0.60
1:W:312:GLN:OE1	1:W:324:THR:OG1	2.18	0.60
1:V:471:ALA:HB2	1:X:328:ASN:ND2	2.16	0.60
1:Z:276:LEU:O	1:Z:561:ARG:N	2.35	0.60
1:2:191:PHE:CE1	1:2:470:HIS:HE1	2.16	0.60
1:X:98:ASN:HB2	1:4:316:ARG:HH21	1.67	0.60
1:Y:104:LYS:HE2	1:6:289:CYS:HB2	164.99	0.60
1:C:104:LYS:HE2	1:E:289:CYS:HB2	105.53	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:257:ARG:HD3	1:D:36:HIS:C	2.21	0.60
1:C:257:ARG:HG3	1:D:37:SER:H	1.64	0.60
1:D:404:GLN:HE22	1:D:443:ASP:H	1.50	0.60
1:F:37:SER:H	1:G:257:ARG:HG3	1.64	0.60
1:G:289:CYS:HB2	1:H:104:LYS:HE2	49.00	0.60
1:H:104:LYS:HE2	1:Y:289:CYS:HB2	1.84	0.60
1:H:184:MET:HG3	1:H:483:PHE:HE2	1.67	0.60
1:I:289:CYS:HB2	1:J:104:LYS:HE2	60.87	0.60
1:J:328:ASN:ND2	1:2:471:ALA:HB2	103.09	0.60
1:L:289:CYS:HB2	1:M:104:LYS:HE2	95.16	0.60
1:L:316:ARG:HH21	1:M:98:ASN:HB2	103.87	0.60
1:G:104:LYS:HE2	1:O:289:CYS:HB2	175.38	0.60
1:O:37:SER:H	1:V:257:ARG:HG3	109.36	0.60
1:D:104:LYS:HE2	1:P:289:CYS:HB2	1.84	0.60
1:P:316:ARG:HA	1:P:419:ASP:HB3	1.83	0.60
1:R:93:GLY:C	1:R:96:THR:HG23	2.20	0.60
1:Q:104:LYS:HE2	1:S:289:CYS:HB2	102.25	0.60
1:T:184:MET:HG3	1:T:483:PHE:HE2	1.67	0.60
1:X:316:ARG:HA	1:X:419:ASP:HB3	1.83	0.60
1:Y:289:CYS:HB2	1:Z:104:LYS:HE2	49.00	0.60
1:Z:257:ARG:HG3	1:O:37:SER:H	1.64	0.59
1:3:247:LEU:O	1:3:248:GLU:CB	2.42	0.59
1:U:36:HIS:CE1	1:4:33:GLY:C	2.44	0.59
1:A:184:MET:HG3	1:A:483:PHE:HE2	1.67	0.59
1:A:37:SER:H	1:U:257:ARG:HG3	143.13	0.59
1:D:284:ARG:O	1:D:284:ARG:HG2	2.02	0.59
1:G:316:ARG:HH21	1:H:98:ASN:HB2	62.92	0.59
1:M:104:LYS:HE2	1:1:289:CYS:HB2	1.85	0.59
1:N:289:CYS:HB2	1:P:104:LYS:HE2	1.84	0.59
1:R:289:CYS:HB2	1:S:104:LYS:HE2	1.84	0.59
1:R:86:PRO:HG3	1:R:95:ASP:HB2	1.83	0.59
1:T:244:PHE:HE2	1:T:246:PRO:HB3	1.63	0.59
1:T:380:ASP:OD1	1:T:391:ARG:NH2	2.30	0.59
1:R:104:LYS:HE2	1:U:289:CYS:HB2	1.84	0.59
1:W:380:ASP:OD1	1:W:391:ARG:NH2	2.30	0.59
1:X:104:LYS:HE2	1:Z:289:CYS:HB2	78.07	0.59
1:X:186:TRP:NE1	1:X:188:ALA:O	2.35	0.59
1:X:404:GLN:HE22	1:X:443:ASP:H	1.50	0.59
1:Z:109:TRP:HZ3	1:Z:485:LYS:HB3	1.67	0.59
1:C:289:CYS:HB2	1:1:104:LYS:HE2	1.84	0.59
1:2:86:PRO:HG3	1:2:95:ASP:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:186:TRP:NE1	1:3:188:ALA:O	2.35	0.59
1:3:284:ARG:O	1:3:284:ARG:HG2	2.02	0.59
1:B:257:ARG:HD3	1:4:36:HIS:C	162.40	0.59
1:6:284:ARG:O	1:6:284:ARG:HG2	2.02	0.59
1:7:244:PHE:CE2	1:7:246:PRO:CB	2.76	0.59
1:B:244:PHE:HE2	1:B:246:PRO:HB3	1.63	0.59
1:B:184:MET:HG3	1:B:483:PHE:HE2	1.66	0.59
1:C:289:CYS:HB2	1:D:104:LYS:HE2	102.25	0.59
1:F:191:PHE:CE1	1:F:470:HIS:HE1	2.16	0.59
1:J:284:ARG:O	1:J:284:ARG:HG2	2.02	0.59
1:K:276:LEU:O	1:K:561:ARG:N	2.35	0.59
1:Q:284:ARG:O	1:Q:284:ARG:HG2	2.02	0.59
1:C:36:HIS:CE1	1:T:33:GLY:C	151.30	0.59
1:U:284:ARG:HG2	1:U:284:ARG:O	2.02	0.59
1:W:186:TRP:NE1	1:W:188:ALA:O	2.35	0.59
1:W:246:PRO:HG2	1:W:249:THR:HG21	1.82	0.59
1:W:86:PRO:HG3	1:W:95:ASP:HB2	1.83	0.59
1:X:184:MET:HG3	1:X:483:PHE:HE2	1.67	0.59
1:Y:109:TRP:HZ3	1:Y:485:LYS:HB3	1.67	0.59
1:K:289:CYS:HB2	1:0:104:LYS:HE2	1.84	0.59
1:0:184:MET:HG3	1:0:483:PHE:HE2	1.67	0.59
1:3:316:ARG:HA	1:3:419:ASP:HB3	1.83	0.59
1:6:316:ARG:HA	1:6:419:ASP:HB3	1.83	0.59
1:6:380:ASP:OD1	1:6:391:ARG:NH2	2.30	0.59
1:6:86:PRO:HG3	1:6:95:ASP:HB2	1.83	0.59
1:7:186:TRP:NE1	1:7:188:ALA:O	2.35	0.59
1:D:86:PRO:HG3	1:D:95:ASP:HB2	1.83	0.59
1:G:276:LEU:O	1:G:561:ARG:N	2.35	0.59
1:I:33:GLY:C	1:1:36:HIS:CE1	98.01	0.59
1:J:184:MET:HG3	1:J:483:PHE:HE2	1.67	0.59
1:K:186:TRP:NE1	1:K:188:ALA:O	2.35	0.59
1:M:86:PRO:HG3	1:M:95:ASP:HB2	1.83	0.59
1:O:191:PHE:CE1	1:O:470:HIS:HE1	2.16	0.59
1:O:404:GLN:HE22	1:O:443:ASP:H	1.50	0.59
1:O:93:GLY:C	1:O:96:THR:HG23	2.20	0.59
1:P:380:ASP:OD1	1:P:391:ARG:NH2	2.30	0.59
1:T:284:ARG:HG2	1:T:284:ARG:O	2.02	0.59
1:T:70:ASP:OD1	1:T:71:MET:N	2.36	0.59
1:V:276:LEU:O	1:V:561:ARG:N	2.35	0.59
1:X:276:LEU:O	1:X:561:ARG:N	2.35	0.59
1:Y:380:ASP:OD1	1:Y:391:ARG:NH2	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:257:ARG:CG	1:Z:37:SER:HG	1.94	0.59
1:O:247:LEU:O	1:O:248:GLU:CB	2.42	0.59
1:1:404:GLN:HE22	1:1:443:ASP:H	1.50	0.59
1:3:70:ASP:OD1	1:3:71:MET:N	2.36	0.59
1:4:316:ARG:HA	1:4:419:ASP:HB3	1.83	0.59
1:6:191:PHE:CE1	1:6:470:HIS:HE1	2.16	0.59
1:A:257:ARG:HD2	1:E:36:HIS:C	21.36	0.59
1:A:93:GLY:C	1:A:96:THR:HG23	2.20	0.59
1:C:335:TRP:CG	1:C:336:PRO:HD2	2.38	0.59
1:E:335:TRP:CG	1:E:336:PRO:HD2	2.38	0.59
1:I:335:TRP:CG	1:I:336:PRO:HD2	2.38	0.59
1:I:70:ASP:OD1	1:I:71:MET:N	2.36	0.59
1:J:36:HIS:CE1	1:K:33:GLY:C	83.55	0.59
1:L:191:PHE:CE1	1:L:470:HIS:HE1	2.16	0.59
1:M:404:GLN:HE22	1:M:443:ASP:H	1.50	0.59
1:N:276:LEU:O	1:N:561:ARG:N	2.35	0.59
1:N:316:ARG:HH21	1:O:98:ASN:HB2	62.92	0.59
1:P:284:ARG:HG2	1:P:284:ARG:O	2.02	0.59
1:Q:276:LEU:O	1:Q:561:ARG:N	2.35	0.59
1:F:98:ASN:HB2	1:Q:316:ARG:HH21	1.67	0.59
1:R:404:GLN:HE22	1:R:443:ASP:H	1.50	0.59
1:T:335:TRP:CG	1:T:336:PRO:HD2	2.38	0.59
1:U:380:ASP:OD1	1:U:391:ARG:NH2	2.30	0.59
1:V:191:PHE:CE1	1:V:470:HIS:HE1	2.16	0.59
1:V:244:PHE:CE2	1:V:246:PRO:CB	2.76	0.59
1:X:104:LYS:HE2	1:4:289:CYS:HB2	1.84	0.59
1:Z:284:ARG:HG2	1:Z:284:ARG:O	2.02	0.59
1:1:276:LEU:O	1:1:561:ARG:N	2.35	0.59
1:3:184:MET:HG3	1:3:483:PHE:HE2	1.67	0.59
1:4:276:LEU:O	1:4:561:ARG:N	2.35	0.59
1:5:404:GLN:HE22	1:5:443:ASP:H	1.49	0.59
1:6:184:MET:HG3	1:6:483:PHE:HE2	1.67	0.59
1:6:70:ASP:OD1	1:6:71:MET:N	2.36	0.59
1:7:191:PHE:CE1	1:7:470:HIS:HE1	2.16	0.59
1:E:380:ASP:OD1	1:E:391:ARG:NH2	2.30	0.59
1:F:289:CYS:HB2	1:T:104:LYS:HE2	165.01	0.59
1:G:244:PHE:CE2	1:G:246:PRO:CB	2.76	0.59
1:I:284:ARG:HG2	1:I:284:ARG:O	2.02	0.59
1:J:70:ASP:OD1	1:J:71:MET:N	2.36	0.59
1:P:335:TRP:CG	1:P:336:PRO:HD2	2.38	0.59
1:R:284:ARG:HG2	1:R:284:ARG:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:284:ARG:O	1:X:284:ARG:HG2	2.02	0.59
1:X:33:GLY:C	1:5:36:HIS:CE1	2.43	0.59
1:X:257:ARG:HD2	1:Y:36:HIS:C	21.37	0.59
1:0:284:ARG:HG2	1:0:284:ARG:O	2.02	0.59
1:1:335:TRP:CG	1:1:336:PRO:HD2	2.38	0.59
1:I:104:LYS:HE2	1:2:289:CYS:HB2	164.99	0.59
1:2:335:TRP:CG	1:2:336:PRO:HD2	2.38	0.59
1:7:34:VAL:O	1:7:34:VAL:HG12	2.00	0.59
1:A:257:ARG:HG2	1:E:37:SER:CA	24.03	0.59
1:C:404:GLN:HE22	1:C:443:ASP:H	1.50	0.59
1:E:109:TRP:HZ3	1:E:485:LYS:HB3	1.67	0.59
1:F:335:TRP:CG	1:F:336:PRO:HD2	2.38	0.59
1:A:527:GLN:NE2	1:G:243:GLN:HG2	2.18	0.59
1:G:284:ARG:HG2	1:G:284:ARG:O	2.02	0.59
1:H:316:ARG:HA	1:H:419:ASP:HB3	1.83	0.59
1:A:98:ASN:HB2	1:I:316:ARG:HH21	1.67	0.59
1:I:36:HIS:C	1:6:257:ARG:HD2	100.97	0.59
1:K:316:ARG:HH22	1:0:98:ASN:CB	1.92	0.59
1:K:70:ASP:OD1	1:K:71:MET:N	2.36	0.59
1:L:86:PRO:HG3	1:L:95:ASP:HB2	1.83	0.59
1:P:109:TRP:HZ3	1:P:485:LYS:HB3	1.67	0.59
1:S:284:ARG:O	1:S:284:ARG:HG2	2.02	0.59
1:S:335:TRP:CG	1:S:336:PRO:HD2	2.38	0.59
1:U:70:ASP:OD1	1:U:71:MET:N	2.36	0.59
1:W:316:ARG:HA	1:W:419:ASP:HB3	1.83	0.59
1:X:70:ASP:OD1	1:X:71:MET:N	2.36	0.59
1:Y:276:LEU:O	1:Y:561:ARG:N	2.35	0.59
1:Y:284:ARG:HG2	1:Y:284:ARG:O	2.02	0.59
1:0:186:TRP:NE1	1:0:188:ALA:O	2.35	0.59
1:1:379:TYR:HB2	1:1:392:GLU:HB3	1.82	0.59
1:4:186:TRP:NE1	1:4:188:ALA:O	2.35	0.59
1:4:86:PRO:HG3	1:4:95:ASP:HB2	1.83	0.59
1:5:284:ARG:O	1:5:284:ARG:HG2	2.02	0.59
1:A:284:ARG:O	1:A:284:ARG:HG2	2.02	0.59
1:D:276:LEU:O	1:D:561:ARG:N	2.35	0.59
1:D:335:TRP:CG	1:D:336:PRO:HD2	2.38	0.59
1:E:98:ASN:CB	1:F:316:ARG:HH22	1.92	0.59
1:G:148:ILE:HG12	1:G:174:LEU:HD23	1.85	0.59
1:H:70:ASP:OD1	1:H:71:MET:N	2.36	0.59
1:I:276:LEU:O	1:I:561:ARG:N	2.35	0.59
1:J:244:PHE:HE2	1:J:246:PRO:HB3	1.63	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:244:PHE:CE2	1:L:246:PRO:CB	2.76	0.59
1:L:284:ARG:HG2	1:L:284:ARG:O	2.02	0.59
1:L:404:GLN:HE22	1:L:443:ASP:H	1.50	0.59
1:N:316:ARG:HA	1:N:419:ASP:HB3	1.83	0.59
1:N:70:ASP:OD1	1:N:71:MET:N	2.36	0.59
1:O:70:ASP:OD1	1:O:71:MET:N	2.36	0.59
1:R:276:LEU:O	1:R:561:ARG:N	2.35	0.59
1:R:70:ASP:OD1	1:R:71:MET:N	2.36	0.59
1:S:380:ASP:OD1	1:S:391:ARG:NH2	2.30	0.59
1:U:184:MET:HG3	1:U:483:PHE:HE2	1.67	0.59
1:V:148:ILE:HG12	1:V:174:LEU:HD23	1.85	0.59
1:Z:380:ASP:OD1	1:Z:391:ARG:NH2	2.30	0.59
1:X:98:ASN:CB	1:4:316:ARG:HH22	1.92	0.59
1:B:104:LYS:HE2	1:5:289:CYS:HB2	214.58	0.59
1:K:33:GLY:C	1:6:36:HIS:CE1	2.44	0.59
1:7:148:ILE:HG12	1:7:174:LEU:HD23	1.85	0.59
1:A:388:GLN:N	1:A:389:GLY:HA2	2.18	0.59
1:A:70:ASP:OD1	1:A:71:MET:N	2.36	0.59
1:B:289:CYS:HB2	1:J:104:LYS:HE2	1.85	0.59
1:B:388:GLN:N	1:B:389:GLY:HA2	2.18	0.59
1:C:33:GLY:C	1:D:36:HIS:CE1	2.45	0.59
1:D:388:GLN:N	1:D:389:GLY:HA2	2.18	0.59
1:E:284:ARG:HG2	1:E:284:ARG:O	2.02	0.59
1:G:191:PHE:CE1	1:G:470:HIS:HE1	2.16	0.59
1:G:528:TRP:CB	1:H:246:PRO:CG	44.16	0.59
1:L:70:ASP:OD1	1:L:71:MET:N	2.36	0.59
1:O:316:ARG:HH22	1:P:98:ASN:CB	80.16	0.59
1:Q:300:GLY:HA2	1:Q:301:GLN:CB	2.33	0.59
1:Q:335:TRP:CG	1:Q:336:PRO:HD2	2.38	0.59
1:T:276:LEU:O	1:T:561:ARG:N	2.35	0.59
1:T:37:SER:CA	1:U:257:ARG:HG2	2.32	0.59
1:U:276:LEU:O	1:U:561:ARG:N	2.35	0.59
1:U:37:SER:HG	1:4:257:ARG:CG	1.95	0.59
1:X:380:ASP:OD1	1:X:391:ARG:NH2	2.30	0.59
1:I:37:SER:CA	1:6:257:ARG:HG2	100.95	0.59
1:Y:98:ASN:HB2	1:6:316:ARG:HH21	183.84	0.59
1:7:93:GLY:C	1:7:96:THR:HG23	2.20	0.59
1:A:148:ILE:HG12	1:A:174:LEU:HD23	1.85	0.59
1:A:276:LEU:O	1:A:561:ARG:N	2.35	0.59
1:B:148:ILE:HG12	1:B:174:LEU:HD23	1.85	0.59
1:B:257:ARG:HG2	1:C:37:SER:CA	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:276:LEU:O	1:B:561:ARG:N	2.35	0.59
1:B:33:GLY:C	1:4:36:HIS:CE1	154.39	0.59
1:B:70:ASP:OD1	1:B:71:MET:N	2.36	0.59
1:C:109:TRP:NE1	1:C:247:LEU:HD23	2.18	0.59
1:D:109:TRP:NE1	1:D:247:LEU:HD23	2.18	0.59
1:D:300:GLY:HA2	1:D:301:GLN:CB	2.33	0.59
1:A:37:SER:H	1:E:257:ARG:HG3	1.66	0.59
1:G:300:GLY:HA2	1:G:301:GLN:CB	2.33	0.59
1:I:148:ILE:HG12	1:I:174:LEU:HD23	1.85	0.59
1:I:388:GLN:N	1:I:389:GLY:HA2	2.18	0.59
1:L:148:ILE:HG12	1:L:174:LEU:HD23	1.85	0.59
1:M:109:TRP:NE1	1:M:247:LEU:HD23	2.18	0.59
1:M:388:GLN:N	1:M:389:GLY:HA2	2.18	0.59
1:N:284:ARG:HG2	1:N:284:ARG:O	2.02	0.59
1:N:380:ASP:OD1	1:N:391:ARG:NH2	2.30	0.59
1:R:109:TRP:HZ3	1:R:485:LYS:HB3	1.67	0.59
1:S:300:GLY:HA2	1:S:301:GLN:CB	2.33	0.59
1:V:300:GLY:HA2	1:V:301:GLN:CB	2.33	0.59
1:X:257:ARG:CG	1:5:37:SER:CB	2.71	0.59
1:Z:335:TRP:CG	1:Z:336:PRO:HD2	2.38	0.59
1:0:191:PHE:CE1	1:0:470:HIS:HE1	2.16	0.59
1:0:276:LEU:O	1:0:561:ARG:N	2.35	0.59
1:0:388:GLN:N	1:0:389:GLY:HA2	2.18	0.59
1:1:184:MET:HG3	1:1:483:PHE:HE2	1.66	0.59
1:3:136:ILE:HG22	1:3:520:ALA:HB2	1.82	0.59
1:Z:289:CYS:HB2	1:6:104:LYS:HE2	165.01	0.59
1:B:109:TRP:HZ3	1:B:485:LYS:HB3	1.67	0.59
1:B:85:PHE:HD1	1:B:99:ASP:HB3	1.68	0.59
1:D:148:ILE:HG12	1:D:174:LEU:HD23	1.85	0.59
1:D:85:PHE:HD1	1:D:99:ASP:HB3	1.68	0.59
1:E:109:TRP:NE1	1:E:247:LEU:HD23	2.18	0.59
1:G:244:PHE:HE2	1:G:246:PRO:HB3	1.63	0.59
1:H:257:ARG:HD2	1:Z:36:HIS:C	2.18	0.59
1:H:335:TRP:CG	1:H:336:PRO:HD2	2.38	0.59
1:L:85:PHE:HD1	1:L:99:ASP:HB3	1.68	0.59
1:P:300:GLY:HA2	1:P:301:GLN:CB	2.33	0.59
1:T:148:ILE:HG12	1:T:174:LEU:HD23	1.85	0.59
1:T:316:ARG:HH21	1:U:98:ASN:HB2	79.96	0.59
1:T:388:GLN:N	1:T:389:GLY:HA2	2.18	0.59
1:U:148:ILE:HG12	1:U:174:LEU:HD23	1.85	0.59
1:T:36:HIS:C	1:U:257:ARG:HD2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:335:TRP:CG	1:X:336:PRO:HD2	2.38	0.59
1:Y:335:TRP:CG	1:Y:336:PRO:HD2	2.38	0.59
1:Z:388:GLN:N	1:Z:389:GLY:HA2	2.18	0.59
1:1:85:PHE:HD1	1:1:99:ASP:HB3	1.68	0.58
1:3:388:GLN:N	1:3:389:GLY:HA2	2.18	0.58
1:4:184:MET:HG3	1:4:483:PHE:HE2	1.67	0.58
1:5:184:MET:HG3	1:5:483:PHE:HE2	1.67	0.58
1:A:109:TRP:HZ3	1:A:485:LYS:HB3	1.67	0.58
1:C:85:PHE:HD1	1:C:99:ASP:HB3	1.68	0.58
1:F:276:LEU:O	1:F:561:ARG:N	2.35	0.58
1:G:85:PHE:HD1	1:G:99:ASP:HB3	1.68	0.58
1:H:284:ARG:O	1:H:284:ARG:HG2	2.02	0.58
1:I:85:PHE:HD1	1:I:99:ASP:HB3	1.68	0.58
1:J:300:GLY:HA2	1:J:301:GLN:CB	2.33	0.58
1:J:388:GLN:N	1:J:389:GLY:HA2	2.18	0.58
1:L:300:GLY:HA2	1:L:301:GLN:CB	2.33	0.58
1:M:148:ILE:HG12	1:M:174:LEU:HD23	1.85	0.58
1:N:85:PHE:HD1	1:N:99:ASP:HB3	1.68	0.58
1:O:276:LEU:O	1:O:561:ARG:N	2.35	0.58
1:Q:36:HIS:CE1	1:S:33:GLY:C	2.44	0.58
1:R:85:PHE:HD1	1:R:99:ASP:HB3	1.68	0.58
1:S:244:PHE:HE2	1:S:246:PRO:HB3	1.63	0.58
1:T:289:CYS:HB2	1:U:104:LYS:HE2	60.87	0.58
1:T:85:PHE:HD1	1:T:99:ASP:HB3	1.68	0.58
1:S:289:CYS:HB2	1:U:104:LYS:HE2	1.85	0.58
1:R:98:ASN:HB2	1:U:316:ARG:HH21	1.67	0.58
1:V:284:ARG:HG2	1:V:284:ARG:O	2.02	0.58
1:W:388:GLN:N	1:W:389:GLY:HA2	2.18	0.58
1:Y:148:ILE:HG12	1:Y:174:LEU:HD23	1.85	0.58
1:Y:388:GLN:N	1:Y:389:GLY:HA2	2.18	0.58
1:W:289:CYS:HB2	1:Z:104:LYS:HE2	85.37	0.58
1:Z:85:PHE:HD1	1:Z:99:ASP:HB3	1.68	0.58
1:1:388:GLN:N	1:1:389:GLY:HA2	2.18	0.58
1:2:148:ILE:HG12	1:2:174:LEU:HD23	1.85	0.58
1:2:300:GLY:HA2	1:2:301:GLN:CB	2.33	0.58
1:3:85:PHE:HD1	1:3:99:ASP:HB3	1.68	0.58
1:K:98:ASN:HB2	1:7:316:ARG:HH21	1.67	0.58
1:D:36:HIS:CE1	1:R:33:GLY:C	98.02	0.58
1:E:388:GLN:N	1:E:389:GLY:HA2	2.18	0.58
1:F:148:ILE:HG12	1:F:174:LEU:HD23	1.85	0.58
1:F:284:ARG:O	1:F:284:ARG:HG2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:300:GLY:HA2	1:F:301:GLN:CB	2.33	0.58
1:F:109:TRP:HZ3	1:F:485:LYS:HB3	1.67	0.58
1:G:109:TRP:NE1	1:G:247:LEU:HD23	2.18	0.58
1:H:380:ASP:OD1	1:H:391:ARG:NH2	2.30	0.58
1:I:109:TRP:HZ3	1:I:485:LYS:HB3	1.67	0.58
1:J:85:PHE:HD1	1:J:99:ASP:HB3	1.68	0.58
1:J:93:GLY:C	1:J:96:THR:HG23	2.20	0.58
1:K:300:GLY:HA2	1:K:301:GLN:CB	2.33	0.58
1:N:104:LYS:HE2	1:P:289:CYS:HB2	56.29	0.58
1:O:300:GLY:HA2	1:O:301:GLN:CB	2.33	0.58
1:P:148:ILE:HG12	1:P:174:LEU:HD23	1.85	0.58
1:Q:109:TRP:NE1	1:Q:247:LEU:HD23	2.18	0.58
1:Q:380:ASP:OD1	1:Q:391:ARG:NH2	2.30	0.58
1:Q:70:ASP:OD1	1:Q:71:MET:N	2.36	0.58
1:Q:85:PHE:HD1	1:Q:99:ASP:HB3	1.68	0.58
1:R:148:ILE:HG12	1:R:174:LEU:HD23	1.85	0.58
1:S:148:ILE:HG12	1:S:174:LEU:HD23	1.85	0.58
1:S:388:GLN:N	1:S:389:GLY:HA2	2.18	0.58
1:S:85:PHE:HD1	1:S:99:ASP:HB3	1.68	0.58
1:U:109:TRP:NE1	1:U:247:LEU:HD23	2.18	0.58
1:U:289:CYS:HB2	1:V:104:LYS:HE2	48.99	0.58
1:V:85:PHE:HD1	1:V:99:ASP:HB3	1.68	0.58
1:W:191:PHE:CE1	1:W:470:HIS:HE1	2.16	0.58
1:X:388:GLN:N	1:X:389:GLY:HA2	2.18	0.58
1:Y:85:PHE:HD1	1:Y:99:ASP:HB3	1.68	0.58
1:Z:148:ILE:HG12	1:Z:174:LEU:HD23	1.85	0.58
1:0:335:TRP:CG	1:0:336:PRO:HD2	2.38	0.58
1:0:404:GLN:HE22	1:0:443:ASP:H	1.50	0.58
1:1:244:PHE:CE2	1:1:246:PRO:CB	2.76	0.58
1:2:85:PHE:HD1	1:2:99:ASP:HB3	1.68	0.58
1:3:244:PHE:HE2	1:3:246:PRO:HB3	1.63	0.58
1:5:109:TRP:NE1	1:5:247:LEU:HD23	2.18	0.58
1:5:300:GLY:HA2	1:5:301:GLN:CB	2.33	0.58
1:5:93:GLY:C	1:5:96:THR:HG23	2.20	0.58
1:6:244:PHE:CE2	1:6:246:PRO:CB	2.76	0.58
1:6:276:LEU:O	1:6:561:ARG:N	2.35	0.58
1:A:109:TRP:NE1	1:A:247:LEU:HD23	2.18	0.58
1:A:94:ARG:HH22	1:B:429:ARG:HH12	82.04	0.58
1:B:300:GLY:HA2	1:B:301:GLN:CB	2.33	0.58
1:C:148:ILE:HG12	1:C:174:LEU:HD23	1.85	0.58
1:C:388:GLN:N	1:C:389:GLY:HA2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:70:ASP:OD1	1:D:71:MET:N	2.36	0.58
1:E:148:ILE:HG12	1:E:174:LEU:HD23	1.85	0.58
1:G:335:TRP:CG	1:G:336:PRO:HD2	2.38	0.58
1:H:109:TRP:NE1	1:H:247:LEU:HD23	2.18	0.58
1:I:97:ILE:HG21	1:I:340:ILE:CD1	2.34	0.58
1:J:109:TRP:HZ3	1:J:485:LYS:HB3	1.67	0.58
1:K:335:TRP:CG	1:K:336:PRO:HD2	2.38	0.58
1:K:97:ILE:HG21	1:K:340:ILE:CD1	2.34	0.58
1:L:244:PHE:CD2	1:L:246:PRO:HD3	2.39	0.58
1:M:284:ARG:O	1:M:284:ARG:HG2	2.02	0.58
1:M:36:HIS:CE1	1:N:33:GLY:C	2.45	0.58
1:N:36:HIS:CE1	1:Z:33:GLY:C	155.76	0.58
1:N:388:GLN:N	1:N:389:GLY:HA2	2.18	0.58
1:O:148:ILE:HG12	1:O:174:LEU:HD23	1.85	0.58
1:O:388:GLN:N	1:O:389:GLY:HA2	2.18	0.58
1:O:97:ILE:HG21	1:O:340:ILE:CD1	2.34	0.58
1:P:388:GLN:N	1:P:389:GLY:HA2	2.18	0.58
1:E:289:CYS:HB2	1:Q:104:LYS:HE2	1.84	0.58
1:R:380:ASP:OD1	1:R:391:ARG:NH2	2.30	0.58
1:R:388:GLN:N	1:R:389:GLY:HA2	2.18	0.58
1:T:97:ILE:HG21	1:T:340:ILE:CD1	2.34	0.58
1:W:148:ILE:HG12	1:W:174:LEU:HD23	1.85	0.58
1:W:184:MET:HG3	1:W:483:PHE:HE2	1.66	0.58
1:W:289:CYS:HB2	1:Y:104:LYS:HE2	1.84	0.58
1:Y:109:TRP:NE1	1:Y:247:LEU:HD23	2.18	0.58
1:Y:300:GLY:HA2	1:Y:301:GLN:CB	2.33	0.58
1:Y:70:ASP:OD1	1:Y:71:MET:N	2.36	0.58
1:Z:300:GLY:HA2	1:Z:301:GLN:CB	2.33	0.58
1:1:148:ILE:HG12	1:1:174:LEU:HD23	1.85	0.58
1:2:109:TRP:NE1	1:2:247:LEU:HD23	2.18	0.58
1:2:284:ARG:HG2	1:2:284:ARG:O	2.02	0.58
1:2:109:TRP:HZ3	1:2:485:LYS:HB3	1.67	0.58
1:3:335:TRP:CG	1:3:336:PRO:HD2	2.38	0.58
1:U:37:SER:CA	1:4:257:ARG:HG2	2.31	0.58
1:4:335:TRP:CG	1:4:336:PRO:HD2	2.38	0.58
1:7:388:GLN:N	1:7:389:GLY:HA2	2.18	0.58
1:7:85:PHE:HD1	1:7:99:ASP:HB3	1.68	0.58
1:A:289:CYS:HB2	1:5:104:LYS:HE2	160.42	0.58
1:B:104:LYS:HE2	1:L:289:CYS:HB2	1.84	0.58
1:B:244:PHE:CD2	1:B:246:PRO:HD3	2.39	0.58
1:C:104:LYS:HE2	1:M:289:CYS:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:244:PHE:CD2	1:E:246:PRO:HD3	2.39	0.58
1:E:96:THR:HG1	1:E:342:TYR:HH	1.15	0.58
1:F:85:PHE:HD1	1:F:99:ASP:HB3	1.68	0.58
1:J:244:PHE:CD2	1:J:246:PRO:HD3	2.39	0.58
1:J:109:TRP:NE1	1:J:247:LEU:HD23	2.18	0.58
1:K:104:LYS:HE2	1:7:289:CYS:HB2	1.84	0.58
1:K:388:GLN:N	1:K:389:GLY:HA2	2.18	0.58
1:L:244:PHE:HE2	1:L:246:PRO:HB3	1.63	0.58
1:L:528:TRP:CB	1:M:246:PRO:CG	79.55	0.58
1:M:70:ASP:OD1	1:M:71:MET:N	2.36	0.58
1:N:109:TRP:NE1	1:N:247:LEU:HD23	2.18	0.58
1:N:529:ASN:ND2	1:O:242:ILE:O	53.38	0.58
1:O:335:TRP:CG	1:O:336:PRO:HD2	2.38	0.58
1:P:244:PHE:CD2	1:P:246:PRO:HD3	2.39	0.58
1:F:104:LYS:HE2	1:Q:289:CYS:HB2	1.84	0.58
1:Q:97:ILE:HG21	1:Q:340:ILE:CD1	2.34	0.58
1:R:335:TRP:CG	1:R:336:PRO:HD2	2.38	0.58
1:T:109:TRP:HZ3	1:T:485:LYS:HB3	1.67	0.58
1:T:109:TRP:NE1	1:T:247:LEU:HD23	2.18	0.58
1:T:316:ARG:HH21	1:3:98:ASN:HB2	1.67	0.58
1:V:109:TRP:NE1	1:V:247:LEU:HD23	2.18	0.58
1:V:316:ARG:HH21	1:4:98:ASN:HB2	1.67	0.58
1:W:109:TRP:NE1	1:W:247:LEU:HD23	2.18	0.58
1:Y:97:ILE:HG21	1:Y:340:ILE:CD1	2.34	0.58
1:0:148:ILE:HG12	1:0:174:LEU:HD23	1.85	0.58
1:3:109:TRP:NE1	1:3:247:LEU:HD23	2.18	0.58
1:3:109:TRP:HZ3	1:3:485:LYS:HB3	1.67	0.58
1:5:244:PHE:CD2	1:5:246:PRO:HD3	2.39	0.58
1:7:247:LEU:O	1:7:248:GLU:CB	2.42	0.58
1:7:335:TRP:CG	1:7:336:PRO:HD2	2.38	0.58
1:A:94:ARG:NH2	1:B:429:ARG:HH12	82.36	0.58
1:B:109:TRP:NE1	1:B:247:LEU:HD23	2.18	0.58
1:B:242:ILE:O	1:L:529:ASN:ND2	2.37	0.58
1:B:284:ARG:HG2	1:B:284:ARG:O	2.02	0.58
1:C:244:PHE:CD2	1:C:246:PRO:HD3	2.39	0.58
1:D:244:PHE:HE2	1:D:246:PRO:HB3	1.63	0.58
1:A:36:HIS:CD2	1:E:34:VAL:HG22	2.38	0.58
1:F:109:TRP:NE1	1:F:247:LEU:HD23	2.18	0.58
1:G:97:ILE:HG21	1:G:340:ILE:CD1	2.34	0.58
1:H:85:PHE:HD1	1:H:99:ASP:HB3	1.68	0.58
1:I:109:TRP:NE1	1:I:247:LEU:HD23	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:244:PHE:CE2	1:J:246:PRO:CB	2.76	0.58
1:J:335:TRP:CG	1:J:336:PRO:HD2	2.38	0.58
1:J:97:ILE:HG21	1:J:340:ILE:CD1	2.34	0.58
1:K:284:ARG:O	1:K:284:ARG:HG2	2.02	0.58
1:L:335:TRP:CG	1:L:336:PRO:HD2	2.38	0.58
1:L:97:ILE:HG21	1:L:340:ILE:CD1	2.34	0.58
1:M:244:PHE:HE2	1:M:246:PRO:HB3	1.63	0.58
1:M:85:PHE:HD1	1:M:99:ASP:HB3	1.68	0.58
1:N:244:PHE:CD2	1:N:246:PRO:HD3	2.39	0.58
1:H:289:CYS:HB2	1:O:104:LYS:HE2	180.03	0.58
1:P:244:PHE:HE2	1:P:246:PRO:HB3	1.63	0.58
1:Q:244:PHE:CD2	1:Q:246:PRO:HD3	2.39	0.58
1:Q:388:GLN:N	1:Q:389:GLY:HA2	2.18	0.58
1:F:242:ILE:O	1:Q:529:ASN:ND2	2.37	0.58
1:R:97:ILE:HG21	1:R:340:ILE:CD1	2.34	0.58
1:T:244:PHE:CD2	1:T:246:PRO:HD3	2.39	0.58
1:R:242:ILE:O	1:U:529:ASN:ND2	2.37	0.58
1:V:388:GLN:N	1:V:389:GLY:HA2	2.18	0.58
1:X:85:PHE:HD1	1:X:99:ASP:HB3	1.68	0.58
1:Y:242:ILE:O	1:6:529:ASN:ND2	166.05	0.58
1:Z:109:TRP:NE1	1:Z:247:LEU:HD23	2.18	0.58
1:0:109:TRP:HZ3	1:0:485:LYS:HB3	1.67	0.58
1:1:244:PHE:CD2	1:1:246:PRO:HD3	2.39	0.58
1:V:289:CYS:HB2	1:4:104:LYS:HE2	1.84	0.58
1:5:85:PHE:HD1	1:5:99:ASP:HB3	1.68	0.58
1:6:335:TRP:CG	1:6:336:PRO:HD2	2.38	0.58
1:G:242:ILE:O	1:O:529:ASN:ND2	146.37	0.58
1:G:70:ASP:OD1	1:G:71:MET:N	2.36	0.58
1:H:148:ILE:HG12	1:H:174:LEU:HD23	1.85	0.58
1:H:529:ASN:ND2	1:O:242:ILE:O	178.50	0.58
1:I:244:PHE:CD2	1:I:246:PRO:HD3	2.39	0.58
1:K:148:ILE:HG12	1:K:174:LEU:HD23	1.85	0.58
1:K:242:ILE:O	1:M:529:ASN:ND2	140.25	0.58
1:J:289:CYS:HB2	1:L:104:LYS:HE2	1.84	0.58
1:N:148:ILE:HG12	1:N:174:LEU:HD23	1.85	0.58
1:N:289:CYS:HB2	1:O:104:LYS:HE2	49.00	0.58
1:N:97:ILE:HG21	1:N:340:ILE:CD1	2.34	0.58
1:O:284:ARG:O	1:O:284:ARG:HG2	2.02	0.58
1:O:109:TRP:HZ3	1:O:485:LYS:HB3	1.67	0.58
1:P:109:TRP:NE1	1:P:247:LEU:HD23	2.18	0.58
1:P:33:GLY:C	1:U:36:HIS:CE1	99.00	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:33:GLY:C	1:Q:36:HIS:CE1	89.46	0.58
1:W:335:TRP:CG	1:W:336:PRO:HD2	2.38	0.58
1:X:148:ILE:HG12	1:X:174:LEU:HD23	1.85	0.58
1:X:244:PHE:CD2	1:X:246:PRO:HD3	2.39	0.58
1:O:97:ILE:HG21	1:O:340:ILE:CD1	2.34	0.58
1:C:529:ASN:ND2	1:1:242:ILE:O	2.37	0.58
1:2:276:LEU:O	1:2:561:ARG:N	2.35	0.58
1:3:97:ILE:HG21	1:3:340:ILE:CD1	2.34	0.58
1:A:316:ARG:HH21	1:5:98:ASN:HB2	174.26	0.58
1:A:335:TRP:CG	1:A:336:PRO:HD2	2.38	0.58
1:B:335:TRP:CG	1:B:336:PRO:HD2	2.38	0.58
1:D:244:PHE:CD2	1:D:246:PRO:HD3	2.39	0.58
1:D:289:CYS:HB2	1:E:104:LYS:HE2	102.25	0.58
1:G:388:GLN:N	1:G:389:GLY:HA2	2.18	0.58
1:H:244:PHE:CD2	1:H:246:PRO:HD3	2.39	0.58
1:K:244:PHE:CD2	1:K:246:PRO:HD3	2.39	0.58
1:K:529:ASN:ND2	1:L:242:ILE:O	27.57	0.58
1:M:244:PHE:CD2	1:M:246:PRO:HD3	2.39	0.58
1:N:93:GLY:C	1:N:96:THR:HG23	2.20	0.58
1:O:244:PHE:CD2	1:O:246:PRO:HD3	2.39	0.58
1:R:244:PHE:CD2	1:R:246:PRO:HD3	2.39	0.58
1:S:109:TRP:NE1	1:S:247:LEU:HD23	2.18	0.58
1:U:335:TRP:CG	1:U:336:PRO:HD2	2.38	0.58
1:U:97:ILE:HG21	1:U:340:ILE:CD1	2.34	0.58
1:V:335:TRP:CG	1:V:336:PRO:HD2	2.38	0.58
1:W:85:PHE:HD1	1:W:99:ASP:HB3	1.68	0.58
1:X:93:GLY:C	1:X:96:THR:HG23	2.20	0.58
1:X:97:ILE:HG21	1:X:340:ILE:CD1	2.34	0.58
1:1:109:TRP:NE1	1:1:247:LEU:HD23	2.18	0.58
1:4:148:ILE:HG12	1:4:174:LEU:HD23	1.85	0.58
1:4:388:GLN:N	1:4:389:GLY:HA2	2.18	0.58
1:6:388:GLN:N	1:6:389:GLY:HA2	2.18	0.58
1:6:97:ILE:HG21	1:6:340:ILE:CD1	2.34	0.58
1:7:284:ARG:HG2	1:7:284:ARG:O	2.02	0.58
1:C:316:ARG:HH21	1:1:98:ASN:HB2	1.67	0.58
1:J:36:HIS:CE1	1:O:33:GLY:C	2.45	0.58
1:J:528:TRP:CB	1:L:246:PRO:CG	2.65	0.58
1:K:109:TRP:NE1	1:K:247:LEU:HD23	2.18	0.58
1:K:257:ARG:HG2	1:6:37:SER:CA	2.32	0.58
1:K:93:GLY:C	1:K:96:THR:HG23	2.20	0.58
1:L:109:TRP:NE1	1:L:247:LEU:HD23	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:388:GLN:N	1:L:389:GLY:HA2	2.18	0.58
1:M:335:TRP:CG	1:M:336:PRO:HD2	2.38	0.58
1:N:335:TRP:CG	1:N:336:PRO:HD2	2.38	0.58
1:O:109:TRP:NE1	1:O:247:LEU:HD23	2.18	0.58
1:P:85:PHE:HD1	1:P:99:ASP:HB3	1.68	0.58
1:U:244:PHE:CE2	1:U:246:PRO:CB	2.76	0.58
1:U:244:PHE:HE2	1:U:246:PRO:HB3	1.63	0.58
1:U:300:GLY:HA2	1:U:301:GLN:CB	2.33	0.58
1:U:388:GLN:N	1:U:389:GLY:HA2	2.18	0.58
1:X:109:TRP:HZ3	1:X:485:LYS:HB3	1.68	0.58
1:0:93:GLY:C	1:0:96:THR:HG23	2.20	0.58
1:2:70:ASP:OD1	1:2:71:MET:N	2.36	0.58
1:4:284:ARG:O	1:4:284:ARG:HG2	2.02	0.58
1:5:244:PHE:CE2	1:5:246:PRO:CB	2.76	0.58
1:Z:323:SER:HG	1:6:98:ASN:HA	161.81	0.58
1:7:244:PHE:CD2	1:7:246:PRO:HD3	2.39	0.58
1:A:300:GLY:HA2	1:A:301:GLN:CB	2.33	0.58
1:A:85:PHE:HD1	1:A:99:ASP:HB3	1.68	0.58
1:D:244:PHE:CE2	1:D:246:PRO:CB	2.76	0.58
1:A:36:HIS:C	1:E:257:ARG:HD3	2.23	0.58
1:C:98:ASN:HB2	1:E:316:ARG:HH21	130.68	0.58
1:C:242:ILE:O	1:E:529:ASN:ND2	80.30	0.58
1:F:257:ARG:HG2	1:H:37:SER:CA	93.01	0.58
1:F:388:GLN:N	1:F:389:GLY:HA2	2.18	0.58
1:F:527:GLN:NE2	1:T:243:GLN:HG2	161.54	0.58
1:I:527:GLN:NE2	1:J:243:GLN:HG2	26.74	0.58
1:J:148:ILE:HG12	1:J:174:LEU:HD23	1.85	0.58
1:J:529:ASN:ND2	1:L:242:ILE:O	2.37	0.58
1:M:97:ILE:HG21	1:M:340:ILE:CD1	2.34	0.58
1:R:300:GLY:HA2	1:R:301:GLN:CB	2.33	0.58
1:S:244:PHE:CD2	1:S:246:PRO:HD3	2.39	0.58
1:T:527:GLN:NE2	1:3:243:GLN:HG2	2.19	0.58
1:V:244:PHE:CD2	1:V:246:PRO:HD3	2.39	0.58
1:Y:244:PHE:CE2	1:Y:246:PRO:CB	2.76	0.58
1:Y:247:LEU:O	1:Y:248:GLU:CB	2.42	0.58
1:Z:244:PHE:CD2	1:Z:246:PRO:HD3	2.39	0.58
1:Z:97:ILE:HG21	1:Z:340:ILE:CD1	2.34	0.58
1:4:109:TRP:NE1	1:4:247:LEU:HD23	2.18	0.58
1:B:316:ARG:HH21	1:J:98:ASN:HB2	1.67	0.58
1:D:97:ILE:HG21	1:D:340:ILE:CD1	2.34	0.58
1:A:289:CYS:HB2	1:G:104:LYS:HE2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:244:PHE:CD2	1:G:246:PRO:HD3	2.39	0.58
1:G:527:GLN:NE2	1:I:243:GLN:HG2	2.19	0.58
1:H:388:GLN:N	1:H:389:GLY:HA2	2.18	0.58
1:H:97:ILE:HG21	1:H:340:ILE:CD1	2.34	0.58
1:G:529:ASN:ND2	1:I:242:ILE:O	2.37	0.58
1:I:243:GLN:HG2	1:2:527:GLN:NE2	162.53	0.58
1:K:104:LYS:HE2	1:M:289:CYS:HB2	123.99	0.58
1:N:300:GLY:HA2	1:N:301:GLN:CB	2.33	0.58
1:P:97:ILE:HG21	1:P:340:ILE:CD1	2.34	0.58
1:Q:93:GLY:C	1:Q:96:THR:HG23	2.20	0.58
1:R:109:TRP:NE1	1:R:247:LEU:HD23	2.18	0.58
1:S:97:ILE:HG21	1:S:340:ILE:CD1	2.34	0.58
1:T:243:GLN:HG2	1:V:527:GLN:NE2	88.76	0.58
1:U:85:PHE:HD1	1:U:99:ASP:HB3	1.68	0.58
1:S:323:SER:HG	1:U:98:ASN:HA	1.69	0.58
1:T:242:ILE:O	1:V:529:ASN:ND2	88.15	0.58
1:X:109:TRP:NE1	1:X:247:LEU:HD23	2.18	0.58
1:Y:244:PHE:CD2	1:Y:246:PRO:HD3	2.39	0.58
1:Y:33:GLY:C	1:7:36:HIS:CE1	98.01	0.58
1:0:109:TRP:NE1	1:0:247:LEU:HD23	2.18	0.57
1:K:527:GLN:NE2	1:0:243:GLN:HG2	2.19	0.57
1:1:300:GLY:HA2	1:1:301:GLN:CB	2.33	0.57
1:5:148:ILE:HG12	1:5:174:LEU:HD23	1.85	0.57
1:6:244:PHE:CD2	1:6:246:PRO:HD3	2.39	0.57
1:7:109:TRP:HZ3	1:7:485:LYS:HB3	1.67	0.57
1:K:243:GLN:HG2	1:7:527:GLN:NE2	2.19	0.57
1:A:244:PHE:HE2	1:A:246:PRO:HB3	1.63	0.57
1:B:257:ARG:HG3	1:4:37:SER:H	163.43	0.57
1:B:97:ILE:HG21	1:B:340:ILE:CD1	2.34	0.57
1:C:284:ARG:HG2	1:C:284:ARG:O	2.02	0.57
1:D:528:TRP:CB	1:E:246:PRO:CG	100.23	0.57
1:E:85:PHE:HD1	1:E:99:ASP:HB3	1.68	0.57
1:F:70:ASP:OD1	1:F:71:MET:N	2.36	0.57
1:J:276:LEU:O	1:J:561:ARG:N	2.35	0.57
1:L:529:ASN:ND2	1:M:242:ILE:O	77.52	0.57
1:C:242:ILE:O	1:M:529:ASN:ND2	2.37	0.57
1:N:529:ASN:ND2	1:P:242:ILE:O	2.37	0.57
1:Q:98:ASN:HA	1:S:323:SER:HG	100.11	0.57
1:R:529:ASN:ND2	1:S:242:ILE:O	2.37	0.57
1:S:386:ASP:N	1:S:387:GLN:HA	2.19	0.57
1:S:109:TRP:HZ3	1:S:485:LYS:HB3	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:243:GLN:HG2	1:U:527:GLN:NE2	2.19	0.57
1:V:109:TRP:HZ3	1:V:485:LYS:HB3	1.67	0.57
1:X:37:SER:CA	1:Y:257:ARG:HG2	2.32	0.57
1:Z:247:LEU:O	1:Z:248:GLU:CB	2.42	0.57
1:Z:257:ARG:HG2	1:O:37:SER:CA	2.32	0.57
1:Z:386:ASP:N	1:Z:387:GLN:HA	2.19	0.57
1:Z:529:ASN:ND2	1:6:242:ILE:O	169.65	0.57
1:C:527:GLN:NE2	1:1:243:GLN:HG2	2.19	0.57
1:1:97:ILE:HG21	1:1:340:ILE:CD1	2.34	0.57
1:J:289:CYS:HB2	1:2:104:LYS:HE2	124.64	0.57
1:2:386:ASP:N	1:2:387:GLN:HA	2.19	0.57
1:V:527:GLN:NE2	1:4:243:GLN:HG2	2.20	0.57
1:6:85:PHE:HD1	1:6:99:ASP:HB3	1.68	0.57
1:7:276:LEU:O	1:7:561:ARG:N	2.35	0.57
1:A:242:ILE:O	1:I:529:ASN:ND2	2.37	0.57
1:A:97:ILE:HG21	1:A:340:ILE:CD1	2.34	0.57
1:C:243:GLN:HG2	1:E:527:GLN:NE2	80.23	0.57
1:F:386:ASP:N	1:F:387:GLN:HA	2.19	0.57
1:F:97:ILE:HG21	1:F:340:ILE:CD1	2.34	0.57
1:G:257:ARG:HG2	1:N:37:SER:CA	146.13	0.57
1:G:529:ASN:ND2	1:H:242:ILE:O	53.38	0.57
1:B:243:GLN:HG2	1:L:527:GLN:NE2	2.19	0.57
1:S:529:ASN:ND2	1:U:242:ILE:O	2.37	0.57
1:U:244:PHE:CD2	1:U:246:PRO:HD3	2.39	0.57
1:U:527:GLN:NE2	1:V:243:GLN:HG2	53.92	0.57
1:W:70:ASP:OD1	1:W:71:MET:N	2.36	0.57
1:Z:33:GLY:C	1:O:36:HIS:CE1	2.45	0.57
1:J:37:SER:CB	1:O:257:ARG:CG	2.72	0.57
1:2:97:ILE:HG21	1:2:340:ILE:CD1	2.34	0.57
1:3:148:ILE:HG12	1:3:174:LEU:HD23	1.85	0.57
1:X:243:GLN:HG2	1:4:527:GLN:NE2	2.19	0.57
1:5:276:LEU:O	1:5:561:ARG:N	2.35	0.57
1:5:335:TRP:CG	1:5:336:PRO:HD2	2.38	0.57
1:5:97:ILE:HG21	1:5:340:ILE:CD1	2.34	0.57
1:Y:243:GLN:HG2	1:6:527:GLN:NE2	162.52	0.57
1:C:300:GLY:HA2	1:C:301:GLN:CB	2.33	0.57
1:C:97:ILE:HG21	1:C:340:ILE:CD1	2.34	0.57
1:D:527:GLN:NE2	1:N:243:GLN:HG2	2.19	0.57
1:D:529:ASN:ND2	1:E:242:ILE:O	105.28	0.57
1:E:97:ILE:HG21	1:E:340:ILE:CD1	2.34	0.57
1:F:104:LYS:HE2	1:3:289:CYS:HB2	152.12	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:529:ASN:ND2	1:G:242:ILE:O	2.36	0.57
1:L:386:ASP:N	1:L:387:GLN:HA	2.19	0.57
1:L:276:LEU:O	1:L:561:ARG:N	2.35	0.57
1:M:36:HIS:C	1:2:257:ARG:HD2	21.37	0.57
1:N:242:ILE:O	1:P:529:ASN:ND2	60.07	0.57
1:Q:527:GLN:NE2	1:R:243:GLN:HG2	53.93	0.57
1:R:33:GLY:C	1:V:36:HIS:CE1	2.45	0.57
1:T:529:ASN:ND2	1:3:242:ILE:O	2.37	0.57
1:V:97:ILE:HG21	1:V:340:ILE:CD1	2.34	0.57
1:H:529:ASN:ND2	1:W:242:ILE:O	2.37	0.57
1:W:242:ILE:O	1:X:529:ASN:ND2	53.38	0.57
1:W:97:ILE:HG21	1:W:340:ILE:CD1	2.34	0.57
1:X:242:ILE:O	1:Z:529:ASN:ND2	88.15	0.57
1:I:98:ASN:HB2	1:2:316:ARG:HH21	183.84	0.57
1:3:244:PHE:CD2	1:3:246:PRO:HD3	2.39	0.57
1:4:244:PHE:HE2	1:4:246:PRO:HB3	1.63	0.57
1:7:386:ASP:N	1:7:387:GLN:HA	2.19	0.57
1:B:386:ASP:N	1:B:387:GLN:HA	2.19	0.57
1:E:529:ASN:ND2	1:Q:242:ILE:O	2.37	0.57
1:F:244:PHE:CD2	1:F:246:PRO:HD3	2.39	0.57
1:I:242:ILE:O	1:2:529:ASN:ND2	166.05	0.57
1:G:528:TRP:CB	1:I:246:PRO:CG	2.65	0.57
1:I:529:ASN:ND2	1:J:242:ILE:O	27.57	0.57
1:K:529:ASN:ND2	1:0:242:ILE:O	2.37	0.57
1:K:527:GLN:NE2	1:L:243:GLN:HG2	26.74	0.57
1:L:93:GLY:C	1:L:96:THR:HG23	2.20	0.57
1:D:289:CYS:HB2	1:N:104:LYS:HE2	1.84	0.57
1:R:527:GLN:NE2	1:S:243:GLN:HG2	2.19	0.57
1:X:242:ILE:O	1:4:529:ASN:ND2	2.37	0.57
1:0:244:PHE:CD2	1:0:246:PRO:HD3	2.39	0.57
1:1:284:ARG:HG2	1:1:284:ARG:O	2.02	0.57
1:M:37:SER:CA	1:2:257:ARG:HG2	24.04	0.57
1:2:388:GLN:N	1:2:389:GLY:HA2	2.18	0.57
1:F:243:GLN:HG2	1:3:527:GLN:NE2	122.64	0.57
1:4:244:PHE:CD2	1:4:246:PRO:HD3	2.39	0.57
1:5:388:GLN:N	1:5:389:GLY:HA2	2.18	0.57
1:7:431:SER:OG	1:7:433:HIS:CE1	2.58	0.57
1:B:529:ASN:ND2	1:J:242:ILE:O	2.37	0.57
1:B:93:GLY:C	1:B:96:THR:HG23	2.20	0.57
1:D:386:ASP:N	1:D:387:GLN:HA	2.19	0.57
1:E:300:GLY:HA2	1:E:301:GLN:CB	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:109:TRP:HZ3	1:G:485:LYS:HB3	1.67	0.57
1:H:242:ILE:O	1:Y:529:ASN:ND2	2.37	0.57
1:G:289:CYS:HB2	1:I:104:LYS:HE2	1.84	0.57
1:K:242:ILE:O	1:7:529:ASN:ND2	2.37	0.57
1:K:37:SER:CA	1:L:257:ARG:HG2	2.32	0.57
1:M:386:ASP:N	1:M:387:GLN:HA	2.19	0.57
1:G:243:GLN:HG2	1:O:527:GLN:NE2	143.47	0.57
1:O:85:PHE:HD1	1:O:99:ASP:HB3	1.68	0.57
1:Q:244:PHE:CE2	1:Q:246:PRO:CB	2.76	0.57
1:T:37:SER:HG	1:5:257:ARG:N	100.82	0.57
1:T:529:ASN:ND2	1:U:242:ILE:O	27.57	0.57
1:S:527:GLN:NE2	1:U:243:GLN:HG2	2.20	0.57
1:U:386:ASP:N	1:U:387:GLN:HA	2.19	0.57
1:O:70:ASP:OD1	1:O:71:MET:N	2.36	0.57
1:J:529:ASN:ND2	1:2:242:ILE:O	138.35	0.57
1:V:529:ASN:ND2	1:4:242:ILE:O	2.37	0.57
1:4:431:SER:OG	1:4:433:HIS:CE1	2.58	0.57
1:4:93:GLY:C	1:4:96:THR:HG23	2.20	0.57
1:5:70:ASP:OD1	1:5:71:MET:N	2.36	0.57
1:Z:527:GLN:NE2	1:6:243:GLN:HG2	161.55	0.57
1:7:109:TRP:NE1	1:7:247:LEU:HD23	2.18	0.57
1:A:244:PHE:CD2	1:A:246:PRO:HD3	2.39	0.57
1:A:386:ASP:N	1:A:387:GLN:HA	2.19	0.57
1:D:380:ASP:OD1	1:D:391:ARG:NH2	2.30	0.57
1:F:316:ARG:HH21	1:T:98:ASN:HB2	162.15	0.57
1:F:529:ASN:ND2	1:T:242:ILE:O	169.65	0.57
1:H:93:GLY:C	1:H:96:THR:HG23	2.20	0.57
1:B:527:GLN:NE2	1:J:243:GLN:HG2	2.20	0.57
1:J:386:ASP:N	1:J:387:GLN:HA	2.19	0.57
1:J:527:GLN:NE2	1:2:243:GLN:HG2	134.08	0.57
1:K:386:ASP:N	1:K:387:GLN:HA	2.19	0.57
1:K:431:SER:OG	1:K:433:HIS:CE1	2.58	0.57
1:L:257:ARG:HG2	1:R:37:SER:CA	151.38	0.57
1:M:431:SER:OG	1:M:433:HIS:CE1	2.58	0.57
1:P:70:ASP:OD1	1:P:71:MET:N	2.36	0.57
1:Q:289:CYS:HB2	1:R:104:LYS:HE2	49.00	0.57
1:T:527:GLN:NE2	1:U:243:GLN:HG2	26.74	0.57
1:T:104:LYS:HE2	1:V:289:CYS:HB2	78.08	0.57
1:V:386:ASP:N	1:V:387:GLN:HA	2.19	0.57
1:V:431:SER:OG	1:V:433:HIS:CE1	2.58	0.57
1:W:104:LYS:HE2	1:X:289:CYS:HB2	49.00	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:333:TYR:HE2	1:X:335:TRP:CE3	2.23	0.57
1:Y:527:GLN:NE2	1:Z:243:GLN:HG2	53.92	0.57
1:W:527:GLN:NE2	1:Z:243:GLN:HG2	102.71	0.57
1:Z:70:ASP:OD1	1:Z:71:MET:N	2.36	0.57
1:M:243:GLN:HG2	1:1:527:GLN:NE2	2.20	0.57
1:2:244:PHE:CD2	1:2:246:PRO:HD3	2.39	0.57
1:5:386:ASP:N	1:5:387:GLN:HA	2.19	0.57
1:6:109:TRP:NE1	1:6:247:LEU:HD23	2.18	0.57
1:A:243:GLN:HG2	1:I:527:GLN:NE2	2.20	0.57
1:C:527:GLN:NE2	1:D:243:GLN:HG2	99.53	0.57
1:E:202:ARG:CZ	1:E:381:TRP:HE1	2.18	0.57
1:F:242:ILE:O	1:3:529:ASN:ND2	128.61	0.57
1:H:333:TYR:HE2	1:H:335:TRP:CE3	2.23	0.57
1:K:85:PHE:HD1	1:K:99:ASP:HB3	1.68	0.57
1:C:246:PRO:CG	1:M:528:TRP:CB	2.65	0.57
1:S:70:ASP:OD1	1:S:71:MET:N	2.36	0.57
1:T:246:PRO:CG	1:V:528:TRP:CB	73.09	0.57
1:W:244:PHE:CD2	1:W:246:PRO:HD3	2.39	0.57
1:W:529:ASN:ND2	1:Y:242:ILE:O	2.37	0.57
1:Y:386:ASP:N	1:Y:387:GLN:HA	2.19	0.57
1:W:529:ASN:ND2	1:Z:242:ILE:O	108.35	0.57
1:1:333:TYR:HE2	1:1:335:TRP:CE3	2.23	0.57
1:3:380:ASP:OD1	1:3:391:ARG:NH2	2.30	0.57
1:4:85:PHE:HD1	1:4:99:ASP:HB3	1.68	0.57
1:4:97:ILE:HG21	1:4:340:ILE:CD1	2.34	0.57
1:6:148:ILE:HG12	1:6:174:LEU:HD23	1.85	0.57
1:6:386:ASP:N	1:6:387:GLN:HA	2.19	0.57
1:0:528:TRP:CB	1:7:246:PRO:CG	2.65	0.57
1:B:380:ASP:OD1	1:B:391:ARG:NH2	2.30	0.57
1:B:202:ARG:CZ	1:B:381:TRP:HE1	2.18	0.57
1:D:202:ARG:CZ	1:D:381:TRP:HE1	2.18	0.57
1:D:431:SER:OG	1:D:433:HIS:CE1	2.58	0.57
1:A:36:HIS:CE1	1:E:33:GLY:C	2.45	0.57
1:E:431:SER:OG	1:E:433:HIS:CE1	2.58	0.57
1:F:202:ARG:CZ	1:F:381:TRP:HE1	2.18	0.57
1:J:316:ARG:HH21	1:L:98:ASN:HB2	1.67	0.57
1:L:202:ARG:CZ	1:L:381:TRP:HE1	2.18	0.57
1:L:109:TRP:HZ3	1:L:485:LYS:HB3	1.67	0.57
1:M:202:ARG:CZ	1:M:381:TRP:HE1	2.18	0.57
1:M:333:TYR:HE2	1:M:335:TRP:CE3	2.23	0.57
1:M:37:SER:CB	1:N:257:ARG:CG	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:202:ARG:CZ	1:O:381:TRP:HE1	2.18	0.57
1:O:407:TRP:CE3	1:O:410:LYS:HG2	2.40	0.57
1:P:202:ARG:CZ	1:P:381:TRP:HE1	2.18	0.57
1:P:333:TYR:HE2	1:P:335:TRP:CE3	2.23	0.57
1:P:431:SER:OG	1:P:433:HIS:CE1	2.58	0.57
1:Q:243:GLN:HG2	1:S:527:GLN:NE2	99.52	0.57
1:Q:109:TRP:HZ3	1:Q:485:LYS:HB3	1.67	0.57
1:Q:529:ASN:ND2	1:R:242:ILE:O	53.38	0.57
1:S:333:TYR:HE2	1:S:335:TRP:CE3	2.23	0.57
1:U:333:TYR:HE2	1:U:335:TRP:CE3	2.23	0.57
1:H:289:CYS:HB2	1:W:104:LYS:HE2	1.85	0.57
1:W:527:GLN:NE2	1:Y:243:GLN:HG2	2.20	0.57
1:X:36:HIS:CE1	1:Y:33:GLY:C	2.45	0.57
1:Y:191:PHE:CE1	1:Y:470:HIS:HE1	2.16	0.57
1:X:243:GLN:HG2	1:Z:527:GLN:NE2	88.76	0.57
1:0:333:TYR:HE2	1:0:335:TRP:CE3	2.23	0.57
1:2:202:ARG:CZ	1:2:381:TRP:HE1	2.18	0.57
1:7:202:ARG:CZ	1:7:381:TRP:HE1	2.18	0.57
1:A:333:TYR:HE2	1:A:335:TRP:CE3	2.23	0.57
1:B:94:ARG:HH11	1:5:424:ALA:HA	258.14	0.57
1:C:333:TYR:HE2	1:C:335:TRP:CE3	2.23	0.57
1:C:37:SER:HG	1:T:257:ARG:CG	165.36	0.57
1:C:407:TRP:CE3	1:C:410:LYS:HG2	2.40	0.57
1:D:529:ASN:ND2	1:N:242:ILE:O	2.37	0.57
1:E:104:LYS:HE2	1:F:289:CYS:HB2	1.85	0.57
1:E:386:ASP:N	1:E:387:GLN:HA	2.19	0.57
1:E:407:TRP:CE3	1:E:410:LYS:HG2	2.40	0.57
1:F:407:TRP:CE3	1:F:410:LYS:HG2	2.40	0.57
1:H:202:ARG:CZ	1:H:381:TRP:HE1	2.18	0.57
1:H:243:GLN:HG2	1:Y:527:GLN:NE2	2.19	0.57
1:I:300:GLY:HA2	1:I:301:GLN:CB	2.33	0.57
1:I:386:ASP:N	1:I:387:GLN:HA	2.20	0.57
1:J:380:ASP:OD1	1:J:391:ARG:NH2	2.30	0.57
1:J:527:GLN:NE2	1:L:243:GLN:HG2	2.19	0.57
1:N:202:ARG:CZ	1:N:381:TRP:HE1	2.18	0.57
1:N:386:ASP:N	1:N:387:GLN:HA	2.19	0.57
1:D:243:GLN:HG2	1:P:527:GLN:NE2	2.20	0.57
1:Q:148:ILE:HG12	1:Q:174:LEU:HD23	1.85	0.57
1:P:37:SER:CA	1:Q:257:ARG:HG2	2.32	0.57
1:Q:202:ARG:CZ	1:Q:381:TRP:HE1	2.18	0.57
1:Q:386:ASP:N	1:Q:387:GLN:HA	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:386:ASP:N	1:R:387:GLN:HA	2.19	0.57
1:V:202:ARG:CZ	1:V:381:TRP:HE1	2.18	0.57
1:W:407:TRP:CE3	1:W:410:LYS:HG2	2.40	0.57
1:V:242:ILE:O	1:X:529:ASN:ND2	2.37	0.57
1:O:529:ASN:ND2	1:7:242:ILE:O	2.37	0.57
1:1:407:TRP:CE3	1:1:410:LYS:HG2	2.40	0.57
1:6:333:TYR:HE2	1:6:335:TRP:CE3	2.23	0.57
1:6:407:TRP:CE3	1:6:410:LYS:HG2	2.40	0.57
1:A:33:GLY:C	1:B:36:HIS:CE1	2.46	0.57
1:C:316:ARG:HH21	1:D:98:ASN:HB2	100.22	0.57
1:D:333:TYR:HE2	1:D:335:TRP:CE3	2.23	0.57
1:D:257:ARG:CG	1:E:37:SER:HG	1.94	0.57
1:H:386:ASP:N	1:H:387:GLN:HA	2.19	0.57
1:K:316:ARG:HH21	1:L:98:ASN:HB2	79.96	0.57
1:M:380:ASP:OD1	1:M:391:ARG:NH2	2.30	0.57
1:N:333:TYR:HE2	1:N:335:TRP:CE3	2.23	0.57
1:N:407:TRP:CE3	1:N:410:LYS:HG2	2.40	0.57
1:H:527:GLN:NE2	1:O:243:GLN:HG2	175.81	0.57
1:N:527:GLN:NE2	1:P:243:GLN:HG2	2.19	0.57
1:P:386:ASP:N	1:P:387:GLN:HA	2.20	0.57
1:Q:333:TYR:HE2	1:Q:335:TRP:CE3	2.23	0.57
1:Q:407:TRP:CE3	1:Q:410:LYS:HG2	2.40	0.57
1:R:202:ARG:CZ	1:R:381:TRP:HE1	2.18	0.57
1:Q:242:ILE:O	1:S:529:ASN:ND2	105.27	0.57
1:U:407:TRP:CE3	1:U:410:LYS:HG2	2.40	0.57
1:U:529:ASN:ND2	1:V:242:ILE:O	53.37	0.57
1:W:247:LEU:O	1:W:248:GLU:CB	2.42	0.57
1:W:284:ARG:HG2	1:W:284:ARG:O	2.02	0.57
1:Z:333:TYR:HE2	1:Z:335:TRP:CE3	2.23	0.57
1:O:527:GLN:NE2	1:7:243:GLN:HG2	2.20	0.56
1:5:202:ARG:CZ	1:5:381:TRP:HE1	2.18	0.56
1:7:97:ILE:HG21	1:7:340:ILE:CD1	2.34	0.56
1:C:202:ARG:CZ	1:C:381:TRP:HE1	2.18	0.56
1:C:386:ASP:N	1:C:387:GLN:HA	2.19	0.56
1:F:243:GLN:HG2	1:Q:527:GLN:NE2	2.19	0.56
1:E:242:ILE:O	1:F:529:ASN:ND2	2.37	0.56
1:G:333:TYR:HE2	1:G:335:TRP:CE3	2.23	0.56
1:H:316:ARG:HH22	1:O:98:ASN:CB	209.04	0.56
1:J:202:ARG:CZ	1:J:381:TRP:HE1	2.18	0.56
1:L:380:ASP:OD1	1:L:391:ARG:NH2	2.30	0.56
1:C:243:GLN:HG2	1:M:527:GLN:NE2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:244:PHE:HE2	1:N:246:PRO:HB3	1.63	0.56
1:O:333:TYR:HE2	1:O:335:TRP:CE3	2.23	0.56
1:O:386:ASP:N	1:O:387:GLN:HA	2.19	0.56
1:O:431:SER:OG	1:O:433:HIS:CE1	2.58	0.56
1:R:316:ARG:HH21	1:S:98:ASN:HB2	1.67	0.56
1:R:333:TYR:HE2	1:R:335:TRP:CE3	2.23	0.56
1:U:431:SER:OG	1:U:433:HIS:CE1	2.58	0.56
1:V:407:TRP:CE3	1:V:410:LYS:HG2	2.40	0.56
1:T:257:ARG:CG	1:X:37:SER:HG	106.57	0.56
1:X:386:ASP:N	1:X:387:GLN:HA	2.20	0.56
1:Y:100:SER:O	1:Y:100:SER:OG	2.23	0.56
1:Y:529:ASN:ND2	1:Z:242:ILE:O	53.38	0.56
1:1:386:ASP:N	1:1:387:GLN:HA	2.19	0.56
1:M:242:ILE:O	1:1:529:ASN:ND2	2.37	0.56
1:3:244:PHE:CE2	1:3:246:PRO:CB	2.76	0.56
1:3:276:LEU:O	1:3:561:ARG:N	2.35	0.56
1:4:202:ARG:CZ	1:4:381:TRP:HE1	2.18	0.56
1:A:529:ASN:ND2	1:5:242:ILE:O	172.79	0.56
1:7:407:TRP:CE3	1:7:410:LYS:HG2	2.40	0.56
1:A:431:SER:OG	1:A:433:HIS:CE1	2.58	0.56
1:C:529:ASN:ND2	1:D:242:ILE:O	105.27	0.56
1:D:242:ILE:O	1:P:529:ASN:ND2	2.37	0.56
1:D:246:PRO:HG3	1:P:528:TRP:HB3	1.85	0.56
1:D:109:TRP:HZ3	1:D:485:LYS:HB3	1.67	0.56
1:D:527:GLN:NE2	1:E:243:GLN:HG2	99.53	0.56
1:E:333:TYR:HE2	1:E:335:TRP:CE3	2.23	0.56
1:A:33:GLY:C	1:E:36:HIS:CE1	10.53	0.56
1:A:528:TRP:CG	1:G:246:PRO:HG3	2.38	0.56
1:G:407:TRP:CE3	1:G:410:LYS:HG2	2.40	0.56
1:H:407:TRP:CE3	1:H:410:LYS:HG2	2.40	0.56
1:I:407:TRP:CE3	1:I:410:LYS:HG2	2.40	0.56
1:K:333:TYR:HE2	1:K:335:TRP:CE3	2.23	0.56
1:L:407:TRP:CE3	1:L:410:LYS:HG2	2.40	0.56
1:M:407:TRP:CE3	1:M:410:LYS:HG2	2.40	0.56
1:N:257:ARG:HG2	1:S:37:SER:CA	100.54	0.56
1:N:527:GLN:NE2	1:O:243:GLN:HG2	53.93	0.56
1:G:98:ASN:HB2	1:O:316:ARG:HH21	201.61	0.56
1:O:529:ASN:ND2	1:P:242:ILE:O	27.56	0.56
1:O:289:CYS:HB2	1:P:104:LYS:HE2	60.86	0.56
1:Q:244:PHE:HE2	1:Q:246:PRO:HB3	1.63	0.56
1:D:37:SER:CB	1:R:257:ARG:CG	113.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:300:GLY:HA2	1:T:301:GLN:CB	2.33	0.56
1:T:386:ASP:N	1:T:387:GLN:HA	2.20	0.56
1:V:243:GLN:HG2	1:X:527:GLN:NE2	2.19	0.56
1:V:333:TYR:HE2	1:V:335:TRP:CE3	2.23	0.56
1:X:407:TRP:CE3	1:X:410:LYS:HG2	2.40	0.56
1:0:85:PHE:HD1	1:0:99:ASP:HB3	1.68	0.56
1:1:109:TRP:HZ3	1:1:485:LYS:HB3	1.67	0.56
1:M:98:ASN:HB2	1:1:316:ARG:HH21	1.67	0.56
1:2:333:TYR:HE2	1:2:335:TRP:CE3	2.23	0.56
1:4:100:SER:OG	1:4:100:SER:O	2.23	0.56
1:4:386:ASP:N	1:4:387:GLN:HA	2.19	0.56
1:5:333:TYR:HE2	1:5:335:TRP:CE3	2.23	0.56
1:A:407:TRP:CE3	1:A:410:LYS:HG2	2.40	0.56
1:B:407:TRP:CE3	1:B:410:LYS:HG2	2.40	0.56
1:A:338:TRP:CD1	1:B:417:LEU:HB2	90.98	0.56
1:D:407:TRP:CE3	1:D:410:LYS:HG2	2.40	0.56
1:F:244:PHE:HE2	1:F:246:PRO:HB3	1.63	0.56
1:F:333:TYR:HE2	1:F:335:TRP:CE3	2.23	0.56
1:J:333:TYR:HE2	1:J:335:TRP:CE3	2.23	0.56
1:K:202:ARG:CZ	1:K:381:TRP:HE1	2.18	0.56
1:M:300:GLY:HA2	1:M:301:GLN:CB	2.33	0.56
1:S:202:ARG:CZ	1:S:381:TRP:HE1	2.18	0.56
1:T:407:TRP:CE3	1:T:410:LYS:HG2	2.40	0.56
1:T:431:SER:OG	1:T:433:HIS:CE1	2.58	0.56
1:U:202:ARG:CZ	1:U:381:TRP:HE1	2.18	0.56
1:X:37:SER:CB	1:Y:257:ARG:CG	2.74	0.56
1:Y:431:SER:OG	1:Y:433:HIS:CE1	2.58	0.56
1:Z:202:ARG:CZ	1:Z:381:TRP:HE1	2.18	0.56
1:Z:431:SER:OG	1:Z:433:HIS:CE1	2.58	0.56
1:1:380:ASP:OD1	1:1:391:ARG:NH2	2.30	0.56
1:6:202:ARG:CZ	1:6:381:TRP:HE1	2.18	0.56
1:A:202:ARG:CZ	1:A:381:TRP:HE1	2.18	0.56
1:A:36:HIS:CE1	1:U:33:GLY:C	143.95	0.56
1:A:527:GLN:NE2	1:5:243:GLN:HG2	168.43	0.56
1:B:33:GLY:C	1:C:36:HIS:CE1	2.44	0.56
1:C:109:TRP:HZ3	1:C:485:LYS:HB3	1.67	0.56
1:C:380:ASP:OD1	1:C:391:ARG:NH2	2.30	0.56
1:E:243:GLN:HG2	1:F:527:GLN:NE2	2.20	0.56
1:F:380:ASP:OD1	1:F:391:ARG:NH2	2.30	0.56
1:G:62:ARG:HH12	1:G:119:VAL:HA	1.71	0.56
1:G:431:SER:OG	1:G:433:HIS:CE1	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:202:ARG:CZ	1:I:381:TRP:HE1	2.18	0.56
1:I:431:SER:OG	1:I:433:HIS:CE1	2.58	0.56
1:L:333:TYR:HE2	1:L:335:TRP:CE3	2.23	0.56
1:L:431:SER:OG	1:L:433:HIS:CE1	2.58	0.56
1:M:246:PRO:HG3	1:1:528:TRP:HB3	1.85	0.56
1:K:243:GLN:HG2	1:M:527:GLN:NE2	134.81	0.56
1:N:316:ARG:HH21	1:P:98:ASN:HB2	1.67	0.56
1:N:316:ARG:HH22	1:P:98:ASN:CB	1.92	0.56
1:P:96:THR:HG1	1:P:342:TYR:HH	1.16	0.56
1:U:109:TRP:HZ3	1:U:485:LYS:HB3	1.67	0.56
1:Y:333:TYR:HE2	1:Y:335:TRP:CE3	2.23	0.56
1:O:316:ARG:HH21	1:7:98:ASN:HB2	1.67	0.56
1:O:407:TRP:CE3	1:O:410:LYS:HG2	2.40	0.56
1:A:339:GLN:HA	1:B:413:HIS:HA	81.48	0.56
1:B:431:SER:OG	1:B:433:HIS:CE1	2.58	0.56
1:C:528:TRP:HB3	1:D:246:PRO:HG3	101.37	0.56
1:G:202:ARG:CZ	1:G:381:TRP:HE1	2.18	0.56
1:G:386:ASP:N	1:G:387:GLN:HA	2.20	0.56
1:H:534:PRO:HD3	1:H:563:MET:HE1	1.88	0.56
1:J:407:TRP:CE3	1:J:410:LYS:HG2	2.40	0.56
1:N:109:TRP:HZ3	1:N:485:LYS:HB3	1.67	0.56
1:P:407:TRP:CE3	1:P:410:LYS:HG2	2.40	0.56
1:N:243:GLN:HG2	1:P:527:GLN:NE2	54.34	0.56
1:Q:246:PRO:HG3	1:S:528:TRP:HB3	101.37	0.56
1:R:247:LEU:O	1:R:248:GLU:CB	2.42	0.56
1:T:202:ARG:CZ	1:T:381:TRP:HE1	2.18	0.56
1:T:62:ARG:HH12	1:T:119:VAL:HA	1.71	0.56
1:U:316:ARG:HH21	1:V:98:ASN:HB2	62.91	0.56
1:V:62:ARG:HH12	1:V:119:VAL:HA	1.71	0.56
1:V:70:ASP:OD1	1:V:71:MET:N	2.36	0.56
1:X:534:PRO:HD3	1:X:563:MET:HE1	2.03	0.56
1:Y:316:ARG:HH21	1:Z:98:ASN:HB2	62.92	0.56
1:O:431:SER:OG	1:O:433:HIS:CE1	2.58	0.56
1:3:333:TYR:HE2	1:3:335:TRP:CE3	2.23	0.56
1:3:407:TRP:CE3	1:3:410:LYS:HG2	2.40	0.56
1:I:333:TYR:HE2	1:I:335:TRP:CE3	2.23	0.56
1:I:528:TRP:CB	1:J:246:PRO:CG	35.84	0.56
1:J:431:SER:OG	1:J:433:HIS:CE1	2.58	0.56
1:L:527:GLN:NE2	1:M:243:GLN:HG2	74.38	0.56
1:M:109:TRP:HZ3	1:M:485:LYS:HB3	1.67	0.56
1:O:527:GLN:NE2	1:P:243:GLN:HG2	26.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:37:SER:CA	1:P:257:ARG:HG2	2.31	0.56
1:E:527:GLN:NE2	1:Q:243:GLN:HG2	2.20	0.56
1:S:290:HIS:HD2	1:S:291:PRO:HD2	1.71	0.56
1:T:333:TYR:HE2	1:T:335:TRP:CE3	2.23	0.56
1:X:62:ARG:HH12	1:X:119:VAL:HA	1.71	0.56
1:O:62:ARG:HH12	1:O:119:VAL:HA	1.71	0.56
1:O:386:ASP:N	1:O:387:GLN:HA	2.19	0.56
1:1:202:ARG:CZ	1:1:381:TRP:HE1	2.18	0.56
1:2:244:PHE:HE2	1:2:246:PRO:HB3	1.63	0.56
1:2:407:TRP:CE3	1:2:410:LYS:HG2	2.40	0.56
1:3:431:SER:OG	1:3:433:HIS:CE1	2.58	0.56
1:5:290:HIS:HD2	1:5:291:PRO:HD2	1.71	0.56
1:B:391:ARG:HH12	1:5:308:ILE:N	224.29	0.56
1:6:109:TRP:HZ3	1:6:485:LYS:HB3	1.67	0.56
1:6:62:ARG:HH12	1:6:119:VAL:HA	1.71	0.56
1:7:333:TYR:HE2	1:7:335:TRP:CE3	2.23	0.56
1:C:431:SER:OG	1:C:433:HIS:CE1	2.58	0.56
1:H:527:GLN:NE2	1:W:243:GLN:HG2	2.20	0.56
1:I:62:ARG:HH12	1:I:119:VAL:HA	1.71	0.56
1:H:37:SER:CB	1:I:257:ARG:CG	2.73	0.56
1:J:290:HIS:HD2	1:J:291:PRO:HD2	1.71	0.56
1:R:431:SER:OG	1:R:433:HIS:CE1	2.58	0.56
1:K:37:SER:CA	1:S:257:ARG:HG2	159.36	0.56
1:U:62:ARG:HH12	1:U:119:VAL:HA	1.71	0.56
1:W:202:ARG:CZ	1:W:381:TRP:HE1	2.18	0.56
1:H:528:TRP:CG	1:W:246:PRO:HG3	2.41	0.56
1:W:333:TYR:HE2	1:W:335:TRP:CE3	2.23	0.56
1:X:431:SER:OG	1:X:433:HIS:CE1	2.58	0.56
1:Y:528:TRP:CG	1:Z:246:PRO:HG3	43.77	0.56
1:Z:290:HIS:HD2	1:Z:291:PRO:HD2	1.71	0.56
1:2:290:HIS:HD2	1:2:291:PRO:HD2	1.71	0.56
1:2:380:ASP:OD1	1:2:391:ARG:NH2	2.30	0.56
1:3:386:ASP:N	1:3:387:GLN:HA	2.19	0.56
1:5:62:ARG:HH12	1:5:119:VAL:HA	1.71	0.56
1:6:300:GLY:HA2	1:6:301:GLN:CB	2.33	0.56
1:A:104:LYS:HE2	1:B:289:CYS:HB2	60.88	0.56
1:G:527:GLN:NE2	1:H:243:GLN:HG2	53.93	0.56
1:H:62:ARG:HH12	1:H:119:VAL:HA	1.71	0.56
1:J:62:ARG:HH12	1:J:119:VAL:HA	1.71	0.56
1:K:62:ARG:HH12	1:K:119:VAL:HA	1.71	0.56
1:J:528:TRP:HB3	1:L:246:PRO:HG3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:98:ASN:CB	1:M:316:ARG:HH22	126.38	0.56
1:R:290:HIS:HD2	1:R:291:PRO:HD2	1.71	0.56
1:R:528:TRP:CG	1:S:246:PRO:HG3	2.41	0.56
1:W:243:GLN:HG2	1:X:527:GLN:NE2	53.92	0.56
1:V:98:ASN:HB2	1:X:316:ARG:HH21	1.67	0.56
1:Y:290:HIS:HD2	1:Y:291:PRO:HD2	1.71	0.56
1:Y:202:ARG:CZ	1:Y:381:TRP:HE1	2.18	0.56
1:6:431:SER:OG	1:6:433:HIS:CE1	2.58	0.56
1:B:341:HIS:HE2	1:5:406:ASP:CG	218.67	0.56
1:B:62:ARG:HH12	1:B:119:VAL:HA	1.71	0.56
1:C:62:ARG:HH12	1:C:119:VAL:HA	1.71	0.56
1:C:290:HIS:HD2	1:C:291:PRO:HD2	1.71	0.56
1:D:62:ARG:HH12	1:D:119:VAL:HA	1.71	0.56
1:F:100:SER:OG	1:F:100:SER:O	2.23	0.56
1:F:290:HIS:HD2	1:F:291:PRO:HD2	1.71	0.56
1:H:431:SER:OG	1:H:433:HIS:CE1	2.58	0.56
1:K:290:HIS:HD2	1:K:291:PRO:HD2	1.71	0.56
1:L:62:ARG:HH12	1:L:119:VAL:HA	1.71	0.56
1:Q:431:SER:OG	1:Q:433:HIS:CE1	2.58	0.56
1:Q:62:ARG:HH12	1:Q:119:VAL:HA	1.71	0.56
1:R:407:TRP:CE3	1:R:410:LYS:HG2	2.40	0.56
1:S:431:SER:OG	1:S:433:HIS:CE1	2.58	0.56
1:T:257:ARG:CG	1:X:37:SER:CB	105.25	0.56
1:W:300:GLY:HA2	1:W:301:GLN:CB	2.33	0.56
1:W:316:ARG:HH21	1:Y:98:ASN:HB2	1.67	0.56
1:Z:316:ARG:HH21	1:6:98:ASN:HB2	162.15	0.56
1:2:62:ARG:HH12	1:2:119:VAL:HA	1.71	0.56
1:3:300:GLY:HA2	1:3:301:GLN:CB	2.33	0.56
1:4:62:ARG:HH12	1:4:119:VAL:HA	1.71	0.56
1:4:290:HIS:HD2	1:4:291:PRO:HD2	1.71	0.56
1:4:333:TYR:HE2	1:4:335:TRP:CE3	2.23	0.56
1:4:407:TRP:CE3	1:4:410:LYS:HG2	2.40	0.56
1:7:290:HIS:HD2	1:7:291:PRO:HD2	1.71	0.56
1:A:62:ARG:HH12	1:A:119:VAL:HA	1.71	0.56
1:A:316:ARG:HH21	1:G:98:ASN:HB2	1.68	0.56
1:B:246:PRO:HG3	1:5:528:TRP:CG	194.80	0.56
1:B:333:TYR:HE2	1:B:335:TRP:CE3	2.23	0.56
1:E:290:HIS:HD2	1:E:291:PRO:HD2	1.71	0.56
1:F:246:PRO:HG3	1:3:528:TRP:CG	131.61	0.56
1:K:407:TRP:CE3	1:K:410:LYS:HG2	2.40	0.56
1:B:98:ASN:HB2	1:L:316:ARG:HH21	1.67	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:62:ARG:HH12	1:N:119:VAL:HA	1.71	0.56
1:R:62:ARG:HH12	1:R:119:VAL:HA	1.71	0.56
1:L:33:GLY:C	1:R:36:HIS:CE1	146.45	0.56
1:V:290:HIS:HD2	1:V:291:PRO:HD2	1.71	0.56
1:W:290:HIS:HD2	1:W:291:PRO:HD2	1.71	0.56
1:X:202:ARG:CZ	1:X:381:TRP:HE1	2.18	0.56
1:Y:407:TRP:CE3	1:Y:410:LYS:HG2	2.40	0.56
1:O:202:ARG:CZ	1:O:381:TRP:HE1	2.18	0.56
1:I:70:ASP:OD1	1:I:71:MET:N	2.36	0.56
1:J:528:TRP:CG	1:2:246:PRO:HG3	131.72	0.56
1:T:528:TRP:CB	1:3:246:PRO:CG	2.65	0.56
1:3:202:ARG:CZ	1:3:381:TRP:HE1	2.18	0.56
1:3:62:ARG:HH12	1:3:119:VAL:HA	1.71	0.56
1:D:246:PRO:HG3	1:P:528:TRP:CG	2.41	0.56
1:E:62:ARG:HH12	1:E:119:VAL:HA	1.71	0.56
1:F:62:ARG:HH12	1:F:119:VAL:HA	1.71	0.56
1:G:100:SER:O	1:G:100:SER:OG	2.23	0.56
1:G:290:HIS:HD2	1:G:291:PRO:HD2	1.71	0.56
1:I:194:ASP:HB3	1:I:207:PRO:HB3	1.89	0.56
1:J:194:ASP:HB3	1:J:207:PRO:HB3	1.88	0.56
1:L:290:HIS:HD2	1:L:291:PRO:HD2	1.71	0.56
1:O:100:SER:OG	1:O:100:SER:O	2.23	0.56
1:O:62:ARG:HH12	1:O:119:VAL:HA	1.71	0.56
1:P:257:ARG:CG	1:U:37:SER:CB	105.25	0.56
1:Q:246:PRO:HG3	1:S:528:TRP:CG	101.93	0.56
1:S:316:ARG:HH21	1:U:98:ASN:HB2	1.67	0.56
1:T:194:ASP:HB3	1:T:207:PRO:HB3	1.88	0.56
1:W:276:LEU:O	1:W:561:ARG:N	2.35	0.56
1:Z:407:TRP:CE3	1:Z:410:LYS:HG2	2.40	0.56
1:I:194:ASP:HB3	1:I:207:PRO:HB3	1.88	0.55
1:2:431:SER:OG	1:2:433:HIS:CE1	2.58	0.55
1:V:528:TRP:CG	1:4:246:PRO:HG3	2.41	0.55
1:X:246:PRO:CG	1:4:528:TRP:CB	2.65	0.55
1:5:407:TRP:CE3	1:5:410:LYS:HG2	2.40	0.55
1:A:429:ARG:HH12	1:G:94:ARG:HH22	1.54	0.55
1:F:431:SER:OG	1:F:433:HIS:CE1	2.58	0.55
1:A:528:TRP:HB3	1:G:246:PRO:HG3	1.83	0.55
1:G:380:ASP:OD1	1:G:391:ARG:NH2	2.30	0.55
1:K:246:PRO:HG3	1:7:528:TRP:CG	2.41	0.55
1:M:62:ARG:HH12	1:M:119:VAL:HA	1.71	0.55
1:S:194:ASP:HB3	1:S:207:PRO:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:407:TRP:CE3	1:S:410:LYS:HG2	2.40	0.55
1:T:290:HIS:HD2	1:T:291:PRO:HD2	1.71	0.55
1:5:194:ASP:HB3	1:5:207:PRO:HB3	1.89	0.55
1:T:37:SER:CA	1:5:257:ARG:HG2	100.57	0.55
1:B:246:PRO:CG	1:5:528:TRP:CB	194.39	0.55
1:7:62:ARG:HH12	1:7:119:VAL:HA	1.71	0.55
1:A:194:ASP:HB3	1:A:207:PRO:HB3	1.88	0.55
1:B:194:ASP:HB3	1:B:207:PRO:HB3	1.88	0.55
1:C:194:ASP:HB3	1:C:207:PRO:HB3	1.89	0.55
1:C:70:ASP:OD1	1:C:71:MET:N	2.36	0.55
1:G:246:PRO:HG3	1:O:528:TRP:CG	140.93	0.55
1:H:290:HIS:HD2	1:H:291:PRO:HD2	1.71	0.55
1:I:290:HIS:HD2	1:I:291:PRO:HD2	1.71	0.55
1:K:528:TRP:CG	1:L:246:PRO:HG3	35.72	0.55
1:K:37:SER:CB	1:L:257:ARG:CG	2.73	0.55
1:M:290:HIS:HD2	1:M:291:PRO:HD2	1.71	0.55
1:N:194:ASP:HB3	1:N:207:PRO:HB3	1.89	0.55
1:G:257:ARG:CG	1:N:37:SER:HG	148.54	0.55
1:H:528:TRP:CB	1:O:246:PRO:CG	162.21	0.55
1:P:194:ASP:HB3	1:P:207:PRO:HB3	1.88	0.55
1:P:290:HIS:HD2	1:P:291:PRO:HD2	1.71	0.55
1:Q:100:SER:OG	1:Q:100:SER:O	2.23	0.55
1:R:194:ASP:HB3	1:R:207:PRO:HB3	1.89	0.55
1:W:316:ARG:HH21	1:Z:98:ASN:HB2	72.65	0.55
1:Z:194:ASP:HB3	1:Z:207:PRO:HB3	1.89	0.55
1:Z:244:PHE:HE2	1:Z:246:PRO:HB3	1.63	0.55
1:1:290:HIS:HD2	1:1:291:PRO:HD2	1.71	0.55
1:D:134:ARG:HG3	1:D:135:GLU:OE1	2.07	0.55
1:D:59:HIS:HE1	1:D:515:LYS:HZ1	1.67	0.55
1:H:300:GLY:HA2	1:H:301:GLN:CB	2.33	0.55
1:I:134:ARG:HG3	1:I:135:GLU:OE1	2.07	0.55
1:L:100:SER:OG	1:L:100:SER:O	2.23	0.55
1:M:134:ARG:HG3	1:M:135:GLU:OE1	2.07	0.55
1:M:257:ARG:CG	1:2:37:SER:CB	2.73	0.55
1:N:100:SER:OG	1:N:100:SER:O	2.23	0.55
1:O:194:ASP:HB3	1:O:207:PRO:HB3	1.88	0.55
1:N:528:TRP:CG	1:P:246:PRO:HG3	2.41	0.55
1:E:528:TRP:CG	1:Q:246:PRO:HG3	2.41	0.55
1:T:134:ARG:HG3	1:T:135:GLU:OE1	2.07	0.55
1:W:134:ARG:HG3	1:W:135:GLU:OE1	2.07	0.55
1:X:257:ARG:CG	1:Y:37:SER:HG	24.69	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:62:ARG:HH12	1:Y:119:VAL:HA	1.71	0.55
1:K:528:TRP:CB	1:O:246:PRO:CG	2.65	0.55
1:1:134:ARG:HG3	1:1:135:GLU:OE1	2.07	0.55
1:3:290:HIS:HD2	1:3:291:PRO:HD2	1.71	0.55
1:5:186:TRP:CZ2	1:5:188:ALA:HB3	2.42	0.55
1:6:186:TRP:CZ2	1:6:188:ALA:HB3	2.42	0.55
1:C:134:ARG:HG3	1:C:135:GLU:OE1	2.07	0.55
1:C:246:PRO:HG3	1:M:528:TRP:CG	2.41	0.55
1:E:134:ARG:HG3	1:E:135:GLU:OE1	2.07	0.55
1:F:257:ARG:HG2	1:R:37:SER:CA	2.31	0.55
1:I:186:TRP:CZ2	1:I:188:ALA:HB3	2.42	0.55
1:J:134:ARG:HG3	1:J:135:GLU:OE1	2.07	0.55
1:J:186:TRP:CZ2	1:J:188:ALA:HB3	2.42	0.55
1:K:186:TRP:CZ2	1:K:188:ALA:HB3	2.42	0.55
1:K:194:ASP:HB3	1:K:207:PRO:HB3	1.88	0.55
1:M:194:ASP:HB3	1:M:207:PRO:HB3	1.88	0.55
1:P:134:ARG:HG3	1:P:135:GLU:OE1	2.07	0.55
1:N:246:PRO:HG3	1:P:528:TRP:CG	68.19	0.55
1:T:186:TRP:CZ2	1:T:188:ALA:HB3	2.42	0.55
1:U:186:TRP:CZ2	1:U:188:ALA:HB3	2.42	0.55
1:V:186:TRP:CZ2	1:V:188:ALA:HB3	2.42	0.55
1:O:37:SER:CB	1:V:257:ARG:CG	112.41	0.55
1:W:386:ASP:N	1:W:387:GLN:HA	2.19	0.55
1:X:194:ASP:HB3	1:X:207:PRO:HB3	1.88	0.55
1:O:186:TRP:CZ2	1:O:188:ALA:HB3	2.42	0.55
1:5:431:SER:OG	1:5:433:HIS:CE1	2.58	0.55
1:B:134:ARG:HG3	1:B:135:GLU:OE1	2.07	0.55
1:G:186:TRP:CZ2	1:G:188:ALA:HB3	2.42	0.55
1:H:194:ASP:HB3	1:H:207:PRO:HB3	1.89	0.55
1:K:534:PRO:HD3	1:K:563:MET:HE1	1.92	0.55
1:L:134:ARG:HG3	1:L:135:GLU:OE1	2.07	0.55
1:M:186:TRP:CZ2	1:M:188:ALA:HB3	2.42	0.55
1:N:134:ARG:HG3	1:N:135:GLU:OE1	2.07	0.55
1:O:186:TRP:CZ2	1:O:188:ALA:HB3	2.42	0.55
1:O:257:ARG:HG2	1:Y:37:SER:CA	162.27	0.55
1:X:186:TRP:CZ2	1:X:188:ALA:HB3	2.42	0.55
1:X:300:GLY:HA2	1:X:301:GLN:CB	2.33	0.55
1:Z:134:ARG:HG3	1:Z:135:GLU:OE1	2.07	0.55
1:O:194:ASP:HB3	1:O:207:PRO:HB3	1.89	0.55
1:I:257:ARG:CG	1:1:37:SER:HG	114.43	0.55
1:S:37:SER:CA	1:3:257:ARG:HG2	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:300:GLY:HA2	1:4:301:GLN:CB	2.33	0.55
1:7:186:TRP:CZ2	1:7:188:ALA:HB3	2.42	0.55
1:B:186:TRP:CZ2	1:B:188:ALA:HB3	2.42	0.55
1:B:290:HIS:HD2	1:B:291:PRO:HD2	1.71	0.55
1:D:186:TRP:CZ2	1:D:188:ALA:HB3	2.42	0.55
1:E:70:ASP:OD1	1:E:71:MET:N	2.36	0.55
1:F:246:PRO:CG	1:Q:528:TRP:CB	2.65	0.55
1:F:450:PRO:HD2	1:F:451:TRP:CZ3	2.42	0.55
1:H:186:TRP:CZ2	1:H:188:ALA:HB3	2.42	0.55
1:H:450:PRO:HD2	1:H:451:TRP:CZ3	2.42	0.55
1:K:450:PRO:HD2	1:K:451:TRP:CZ3	2.42	0.55
1:M:450:PRO:HD2	1:M:451:TRP:CZ3	2.42	0.55
1:D:528:TRP:CG	1:N:246:PRO:HG3	2.41	0.55
1:N:290:HIS:HD2	1:N:291:PRO:HD2	1.71	0.55
1:N:450:PRO:HD2	1:N:451:TRP:CZ3	2.42	0.55
1:O:290:HIS:HD2	1:O:291:PRO:HD2	1.71	0.55
1:O:316:ARG:HH21	1:P:98:ASN:HB2	79.96	0.55
1:O:528:TRP:CG	1:P:246:PRO:HG3	35.70	0.55
1:Q:186:TRP:CZ2	1:Q:188:ALA:HB3	2.42	0.55
1:Q:450:PRO:HD2	1:Q:451:TRP:CZ3	2.42	0.55
1:R:134:ARG:HG3	1:R:135:GLU:OE1	2.07	0.55
1:S:134:ARG:HG3	1:S:135:GLU:OE1	2.07	0.55
1:V:134:ARG:HG3	1:V:135:GLU:OE1	2.07	0.55
1:W:450:PRO:HD2	1:W:451:TRP:CZ3	2.42	0.55
1:X:246:PRO:HG3	1:Z:528:TRP:HB3	74.28	0.55
1:Y:194:ASP:HB3	1:Y:207:PRO:HB3	1.88	0.55
1:0:450:PRO:HD2	1:0:451:TRP:CZ3	2.42	0.55
1:2:194:ASP:HB3	1:2:207:PRO:HB3	1.88	0.55
1:3:134:ARG:HG3	1:3:135:GLU:OE1	2.07	0.55
1:4:450:PRO:HD2	1:4:451:TRP:CZ3	2.42	0.55
1:B:98:ASN:HB2	1:5:316:ARG:HH21	234.64	0.55
1:5:450:PRO:HD2	1:5:451:TRP:CZ3	2.42	0.55
1:6:290:HIS:HD2	1:6:291:PRO:HD2	1.71	0.55
1:A:186:TRP:CZ2	1:A:188:ALA:HB3	2.42	0.55
1:A:450:PRO:HD2	1:A:451:TRP:CZ3	2.42	0.55
1:B:450:PRO:HD2	1:B:451:TRP:CZ3	2.42	0.55
1:C:257:ARG:HG2	1:D:37:SER:CA	2.32	0.55
1:D:194:ASP:HB3	1:D:207:PRO:HB3	1.88	0.55
1:D:257:ARG:CG	1:F:37:SER:CB	84.40	0.55
1:D:450:PRO:HD2	1:D:451:TRP:CZ3	2.42	0.55
1:E:246:PRO:HG3	1:F:528:TRP:CG	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:450:PRO:HD2	1:E:451:TRP:CZ3	2.42	0.55
1:F:194:ASP:HB3	1:F:207:PRO:HB3	1.88	0.55
1:F:59:HIS:HE1	1:F:515:LYS:HZ1	1.55	0.55
1:I:429:ARG:HH12	1:J:94:ARG:HH22	82.04	0.55
1:I:37:SER:CA	1:J:257:ARG:HG2	2.31	0.55
1:J:450:PRO:HD2	1:J:451:TRP:CZ3	2.42	0.55
1:K:380:ASP:OD1	1:K:391:ARG:NH2	2.30	0.55
1:N:186:TRP:CZ2	1:N:188:ALA:HB3	2.42	0.55
1:O:450:PRO:HD2	1:O:451:TRP:CZ3	2.42	0.55
1:R:186:TRP:CZ2	1:R:188:ALA:HB3	2.42	0.55
1:T:429:ARG:HH12	1:3:94:ARG:HH22	1.55	0.55
1:U:290:HIS:HD2	1:U:291:PRO:HD2	1.71	0.55
1:U:450:PRO:HD2	1:U:451:TRP:CZ3	2.42	0.55
1:U:429:ARG:HH12	1:V:94:ARG:HH22	78.86	0.55
1:X:134:ARG:HG3	1:X:135:GLU:OE1	2.07	0.55
1:X:290:HIS:HD2	1:X:291:PRO:HD2	1.71	0.55
1:Z:186:TRP:CZ2	1:Z:188:ALA:HB3	2.42	0.55
1:1:62:ARG:HH12	1:1:119:VAL:HA	1.71	0.55
1:4:186:TRP:CZ2	1:4:188:ALA:HB3	2.42	0.55
1:7:134:ARG:HG3	1:7:135:GLU:OE1	2.07	0.55
1:7:450:PRO:HD2	1:7:451:TRP:CZ3	2.42	0.55
1:A:220:ASP:OD1	1:B:360:TRP:HZ3	54.26	0.55
1:B:34:VAL:HG22	1:4:36:HIS:CD2	154.48	0.55
1:C:450:PRO:HD2	1:C:451:TRP:CZ3	2.42	0.55
1:E:98:ASN:HB2	1:F:316:ARG:HH21	1.67	0.55
1:G:134:ARG:HG3	1:G:135:GLU:OE1	2.07	0.55
1:G:194:ASP:HB3	1:G:207:PRO:HB3	1.88	0.55
1:F:37:SER:CB	1:G:257:ARG:CG	2.73	0.55
1:H:134:ARG:HG3	1:H:135:GLU:OE1	2.07	0.55
1:L:450:PRO:HD2	1:L:451:TRP:CZ3	2.42	0.55
1:L:528:TRP:CG	1:M:246:PRO:HG3	79.27	0.55
1:N:431:SER:OG	1:N:433:HIS:CE1	2.58	0.55
1:O:380:ASP:OD1	1:O:391:ARG:NH2	2.30	0.55
1:P:62:ARG:HH12	1:P:119:VAL:HA	1.71	0.55
1:Q:528:TRP:CG	1:R:246:PRO:HG3	43.77	0.55
1:S:62:ARG:HH12	1:S:119:VAL:HA	1.71	0.55
1:S:186:TRP:CZ2	1:S:188:ALA:HB3	2.42	0.55
1:V:450:PRO:HD2	1:V:451:TRP:CZ3	2.42	0.55
1:X:450:PRO:HD2	1:X:451:TRP:CZ3	2.42	0.55
1:Z:62:ARG:HH12	1:Z:119:VAL:HA	1.71	0.55
1:A:134:ARG:HG3	1:A:135:GLU:OE1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:100:SER:OG	1:D:100:SER:O	2.23	0.55
1:D:316:ARG:HH21	1:N:98:ASN:HB2	1.67	0.55
1:J:528:TRP:CG	1:L:246:PRO:HG3	2.41	0.55
1:P:186:TRP:CZ2	1:P:188:ALA:HB3	2.42	0.55
1:Q:290:HIS:HD2	1:Q:291:PRO:HD2	1.71	0.55
1:R:257:ARG:HG2	1:V:37:SER:CA	2.32	0.55
1:W:62:ARG:HH12	1:W:119:VAL:HA	1.71	0.55
1:2:450:PRO:HD2	1:2:451:TRP:CZ3	2.42	0.55
1:3:93:GLY:C	1:3:96:THR:HG23	2.20	0.55
1:B:492:ASP:O	1:4:65:HIS:NE2	197.08	0.55
1:C:186:TRP:CZ2	1:C:188:ALA:HB3	2.42	0.55
1:D:290:HIS:HD2	1:D:291:PRO:HD2	1.71	0.55
1:E:186:TRP:CZ2	1:E:188:ALA:HB3	2.42	0.55
1:E:194:ASP:HB3	1:E:207:PRO:HB3	1.88	0.55
1:I:375:GLU:HG2	1:I:396:GLN:HE22	1.73	0.55
1:J:257:ARG:HG2	1:Z:37:SER:CA	24.87	0.55
1:J:375:GLU:HG2	1:J:396:GLN:HE22	1.73	0.55
1:L:186:TRP:CZ2	1:L:188:ALA:HB3	2.42	0.55
1:L:429:ARG:HH12	1:M:94:ARG:HH22	101.37	0.55
1:U:134:ARG:HG3	1:U:135:GLU:OE1	2.07	0.55
1:V:194:ASP:HB3	1:V:207:PRO:HB3	1.89	0.55
1:Y:134:ARG:HG3	1:Y:135:GLU:OE1	2.07	0.55
1:W:429:ARG:HH12	1:Z:94:ARG:HH22	86.63	0.55
1:O:290:HIS:HD2	1:O:291:PRO:HD2	1.71	0.54
1:1:450:PRO:HD2	1:1:451:TRP:CZ3	2.42	0.54
1:3:375:GLU:HG2	1:3:396:GLN:HE22	1.73	0.54
1:4:194:ASP:HB3	1:4:207:PRO:HB3	1.88	0.54
1:6:134:ARG:HG3	1:6:135:GLU:OE1	2.07	0.54
1:Y:94:ARG:HH22	1:6:429:ARG:HH12	207.78	0.54
1:6:450:PRO:HD2	1:6:451:TRP:CZ3	2.42	0.54
1:A:290:HIS:HD2	1:A:291:PRO:HD2	1.71	0.54
1:A:334:SER:OG	1:A:435:THR:CG2	2.56	0.54
1:B:334:SER:OG	1:B:435:THR:CG2	2.56	0.54
1:E:244:PHE:HE2	1:E:246:PRO:HB3	1.63	0.54
1:E:257:ARG:HG2	1:Q:37:SER:CA	87.85	0.54
1:E:334:SER:OG	1:E:435:THR:CG2	2.56	0.54
1:F:334:SER:OG	1:F:435:THR:CG2	2.56	0.54
1:G:450:PRO:HD2	1:G:451:TRP:CZ3	2.42	0.54
1:G:528:TRP:CG	1:H:246:PRO:HG3	43.77	0.54
1:H:246:PRO:HG3	1:Y:528:TRP:HB3	1.86	0.54
1:J:316:ARG:HH21	1:2:98:ASN:HB2	126.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:528:TRP:CB	1:O:246:PRO:CG	44.16	0.54
1:P:334:SER:OG	1:P:435:THR:CG2	2.56	0.54
1:Q:134:ARG:HG3	1:Q:135:GLU:OE1	2.07	0.54
1:Q:316:ARG:HH21	1:R:98:ASN:HB2	62.92	0.54
1:E:414:GLN:N	1:Q:338:TRP:O	2.37	0.54
1:R:246:PRO:CG	1:U:528:TRP:CB	2.66	0.54
1:R:94:ARG:HH22	1:U:429:ARG:HH12	1.55	0.54
1:T:375:GLU:HG2	1:T:396:GLN:HE22	1.73	0.54
1:T:429:ARG:HH12	1:U:94:ARG:HH22	82.04	0.54
1:Y:186:TRP:CZ2	1:Y:188:ALA:HB3	2.42	0.54
1:W:429:ARG:HH12	1:Y:94:ARG:HH22	1.55	0.54
1:K:528:TRP:CG	1:O:246:PRO:HG3	2.41	0.54
1:1:186:TRP:CZ2	1:1:188:ALA:HB3	2.42	0.54
1:L:37:SER:CB	1:1:257:ARG:CG	2.72	0.54
1:1:431:SER:OG	1:1:433:HIS:CE1	2.58	0.54
1:2:334:SER:OG	1:2:435:THR:CG2	2.56	0.54
1:T:528:TRP:HB3	1:3:246:PRO:HG3	1.85	0.54
1:F:98:ASN:HB2	1:3:316:ARG:HH21	165.61	0.54
1:5:134:ARG:HG3	1:5:135:GLU:OE1	2.07	0.54
1:A:63:LEU:HD23	1:A:203:ALA:HB2	1.90	0.54
1:B:63:LEU:HD23	1:B:203:ALA:HB2	1.90	0.54
1:F:186:TRP:CZ2	1:F:188:ALA:HB3	2.42	0.54
1:F:286:ILE:HD11	1:F:327:SER:HB2	1.90	0.54
1:F:338:TRP:O	1:Q:414:GLN:N	2.38	0.54
1:G:429:ARG:HH12	1:H:94:ARG:HH22	78.86	0.54
1:H:316:ARG:HH21	1:O:98:ASN:HB2	206.80	0.54
1:I:450:PRO:HD2	1:I:451:TRP:CZ3	2.42	0.54
1:K:286:ILE:HD11	1:K:327:SER:HB2	1.90	0.54
1:L:334:SER:OG	1:L:435:THR:CG2	2.56	0.54
1:L:63:LEU:HD23	1:L:203:ALA:HB2	1.90	0.54
1:M:63:LEU:HD23	1:M:203:ALA:HB2	1.90	0.54
1:C:98:ASN:HB2	1:M:316:ARG:HH21	1.67	0.54
1:E:429:ARG:HH12	1:Q:94:ARG:HH22	1.55	0.54
1:T:334:SER:OG	1:T:435:THR:CG2	2.56	0.54
1:T:450:PRO:HD2	1:T:451:TRP:CZ3	2.42	0.54
1:W:186:TRP:CZ2	1:W:188:ALA:HB3	2.42	0.54
1:X:246:PRO:HG3	1:4:528:TRP:CG	2.41	0.54
1:W:98:ASN:HB2	1:X:316:ARG:HH21	62.92	0.54
1:O:300:GLY:HA2	1:O:301:GLN:CB	2.33	0.54
1:1:375:GLU:HG2	1:1:396:GLN:HE22	1.73	0.54
1:2:186:TRP:CZ2	1:2:188:ALA:HB3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:286:ILE:HD11	1:2:327:SER:HB2	1.90	0.54
1:T:528:TRP:CG	1:3:246:PRO:HG3	2.41	0.54
1:3:450:PRO:HD2	1:3:451:TRP:CZ3	2.42	0.54
1:4:70:ASP:OD1	1:4:71:MET:N	2.36	0.54
1:5:191:PHE:CE1	1:5:470:HIS:HE1	2.16	0.54
1:0:528:TRP:CG	1:7:246:PRO:HG3	2.41	0.54
1:C:375:GLU:HG2	1:C:396:GLN:HE22	1.73	0.54
1:F:63:LEU:HD23	1:F:203:ALA:HB2	1.90	0.54
1:G:156:THR:O	1:G:163:THR:OG1	2.25	0.54
1:G:63:LEU:HD23	1:G:203:ALA:HB2	1.90	0.54
1:I:334:SER:OG	1:I:435:THR:CG2	2.56	0.54
1:J:334:SER:OG	1:J:435:THR:CG2	2.56	0.54
1:K:334:SER:OG	1:K:435:THR:CG2	2.56	0.54
1:L:286:ILE:HD11	1:L:327:SER:HB2	1.90	0.54
1:K:414:GLN:N	1:L:338:TRP:O	85.61	0.54
1:K:98:ASN:HB2	1:M:316:ARG:HH21	125.26	0.54
1:N:63:LEU:HD23	1:N:203:ALA:HB2	1.90	0.54
1:O:134:ARG:HG3	1:O:135:GLU:OE1	2.07	0.54
1:O:286:ILE:HD11	1:O:327:SER:HB2	1.90	0.54
1:O:334:SER:OG	1:O:435:THR:CG2	2.56	0.54
1:O:63:LEU:HD23	1:O:203:ALA:HB2	1.90	0.54
1:P:286:ILE:HD11	1:P:327:SER:HB2	1.90	0.54
1:Q:429:ARG:HH12	1:R:94:ARG:HH22	78.87	0.54
1:S:286:ILE:HD11	1:S:327:SER:HB2	1.90	0.54
1:U:286:ILE:HD11	1:U:327:SER:HB2	1.90	0.54
1:X:375:GLU:HG2	1:X:396:GLN:HE22	1.73	0.54
1:V:246:PRO:HG3	1:X:528:TRP:CG	2.41	0.54
1:0:375:GLU:HG2	1:0:396:GLN:HE22	1.73	0.54
1:3:286:ILE:HD11	1:3:327:SER:HB2	1.90	0.54
1:3:334:SER:OG	1:3:435:THR:CG2	2.56	0.54
1:6:286:ILE:HD11	1:6:327:SER:HB2	1.90	0.54
1:B:257:ARG:HG2	1:4:37:SER:CA	164.26	0.54
1:B:65:HIS:NE2	1:C:492:ASP:O	41.97	0.54
1:C:286:ILE:HD11	1:C:327:SER:HB2	1.90	0.54
1:D:63:LEU:HD23	1:D:203:ALA:HB2	1.90	0.54
1:D:286:ILE:HD11	1:D:327:SER:HB2	1.90	0.54
1:D:429:ARG:HH12	1:N:94:ARG:HH22	1.56	0.54
1:F:134:ARG:HG3	1:F:135:GLU:OE1	2.07	0.54
1:G:286:ILE:HD11	1:G:327:SER:HB2	1.90	0.54
1:G:334:SER:OG	1:G:435:THR:CG2	2.56	0.54
1:G:343:SER:HB3	1:G:345:GLY:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:309:ASN:HB2	1:G:391:ARG:HH22	1.72	0.54
1:H:286:ILE:HD11	1:H:327:SER:HB2	1.90	0.54
1:H:375:GLU:HG2	1:H:396:GLN:HE22	1.73	0.54
1:H:334:SER:OG	1:H:435:THR:CG2	2.56	0.54
1:I:286:ILE:HD11	1:I:327:SER:HB2	1.90	0.54
1:B:429:ARG:HH12	1:J:94:ARG:HH22	1.56	0.54
1:K:134:ARG:HG3	1:K:135:GLU:OE1	2.07	0.54
1:L:194:ASP:HB3	1:L:207:PRO:HB3	1.89	0.54
1:M:375:GLU:HG2	1:M:396:GLN:HE22	1.73	0.54
1:M:334:SER:OG	1:M:435:THR:CG2	2.56	0.54
1:N:334:SER:OG	1:N:435:THR:CG2	2.56	0.54
1:N:338:TRP:O	1:P:414:GLN:N	22.55	0.54
1:N:429:ARG:HH12	1:P:94:ARG:HH22	1.56	0.54
1:N:94:ARG:HH22	1:P:429:ARG:HH12	27.65	0.54
1:Q:156:THR:O	1:Q:163:THR:OG1	2.25	0.54
1:T:286:ILE:HD11	1:T:327:SER:HB2	1.90	0.54
1:U:63:LEU:HD23	1:U:203:ALA:HB2	1.90	0.54
1:V:246:PRO:HG3	1:X:528:TRP:HB3	1.85	0.54
1:X:286:ILE:HD11	1:X:327:SER:HB2	1.90	0.54
1:X:334:SER:OG	1:X:435:THR:CG2	2.56	0.54
1:Y:63:LEU:HD23	1:Y:203:ALA:HB2	1.90	0.54
1:0:343:SER:HB3	1:0:345:GLY:O	2.08	0.54
1:0:334:SER:OG	1:0:435:THR:CG2	2.56	0.54
1:3:343:SER:HB3	1:3:345:GLY:O	2.08	0.54
1:5:334:SER:OG	1:5:435:THR:CG2	2.56	0.54
1:5:343:SER:HB3	1:5:345:GLY:O	2.08	0.54
1:7:194:ASP:HB3	1:7:207:PRO:HB3	1.88	0.54
1:B:100:SER:OG	1:B:100:SER:O	2.23	0.54
1:A:391:ARG:HH12	1:B:308:ILE:N	88.90	0.54
1:D:334:SER:OG	1:D:435:THR:CG2	2.56	0.54
1:D:343:SER:HB3	1:D:345:GLY:O	2.08	0.54
1:E:286:ILE:HD11	1:E:327:SER:HB2	1.90	0.54
1:G:338:TRP:O	1:O:414:GLN:N	204.54	0.54
1:H:257:ARG:CG	1:L:37:SER:CB	105.25	0.54
1:J:286:ILE:HD11	1:J:327:SER:HB2	1.90	0.54
1:J:343:SER:HB3	1:J:345:GLY:O	2.08	0.54
1:L:343:SER:HB3	1:L:345:GLY:O	2.08	0.54
1:M:286:ILE:HD11	1:M:327:SER:HB2	1.90	0.54
1:N:286:ILE:HD11	1:N:327:SER:HB2	1.90	0.54
1:N:375:GLU:HG2	1:N:396:GLN:HE22	1.73	0.54
1:Q:63:LEU:HD23	1:Q:203:ALA:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:286:ILE:HD11	1:Q:327:SER:HB2	1.90	0.54
1:Q:343:SER:HB3	1:Q:345:GLY:O	2.08	0.54
1:Q:375:GLU:HG2	1:Q:396:GLN:HE22	1.73	0.54
1:Q:334:SER:OG	1:Q:435:THR:CG2	2.56	0.54
1:R:286:ILE:HD11	1:R:327:SER:HB2	1.90	0.54
1:R:375:GLU:HG2	1:R:396:GLN:HE22	1.73	0.54
1:R:450:PRO:HD2	1:R:451:TRP:CZ3	2.42	0.54
1:R:429:ARG:HH12	1:S:94:ARG:HH22	1.55	0.54
1:S:414:GLN:N	1:U:338:TRP:O	2.37	0.54
1:V:334:SER:OG	1:V:435:THR:CG2	2.55	0.54
1:W:334:SER:OG	1:W:435:THR:CG2	2.56	0.54
1:W:528:TRP:CG	1:Y:246:PRO:HG3	2.41	0.54
1:Y:375:GLU:HG2	1:Y:396:GLN:HE22	1.73	0.54
1:Y:450:PRO:HD2	1:Y:451:TRP:CZ3	2.42	0.54
1:Z:63:LEU:HD23	1:Z:203:ALA:HB2	1.90	0.54
1:Z:334:SER:OG	1:Z:435:THR:CG2	2.56	0.54
1:Y:414:GLN:N	1:Z:338:TRP:O	76.12	0.54
1:Z:450:PRO:HD2	1:Z:451:TRP:CZ3	2.42	0.54
1:4:343:SER:HB3	1:4:345:GLY:O	2.08	0.54
1:Z:528:TRP:CG	1:6:246:PRO:HG3	166.31	0.54
1:Z:414:GLN:N	1:6:338:TRP:O	148.65	0.54
1:0:528:TRP:HB3	1:7:246:PRO:HG3	1.85	0.54
1:7:334:SER:OG	1:7:435:THR:CG2	2.56	0.54
1:D:316:ARG:HH21	1:E:98:ASN:HB2	100.22	0.54
1:F:338:TRP:O	1:3:414:GLN:N	156.93	0.54
1:I:528:TRP:CG	1:J:246:PRO:HG3	35.71	0.54
1:K:343:SER:HB3	1:K:345:GLY:O	2.08	0.54
1:J:429:ARG:HH12	1:L:94:ARG:HH22	1.55	0.54
1:P:343:SER:HB3	1:P:345:GLY:O	2.08	0.54
1:S:334:SER:OG	1:S:435:THR:CG2	2.56	0.54
1:S:343:SER:HB3	1:S:345:GLY:O	2.08	0.54
1:W:431:SER:OG	1:W:433:HIS:CE1	2.58	0.54
1:W:528:TRP:CG	1:Z:246:PRO:HG3	105.95	0.54
1:X:343:SER:HB3	1:X:345:GLY:O	2.08	0.54
1:Y:246:PRO:CG	1:6:528:TRP:CB	153.30	0.54
1:0:71:MET:HB2	1:0:75:ARG:NH2	2.23	0.54
1:1:63:LEU:HD23	1:1:203:ALA:HB2	1.90	0.54
1:J:414:GLN:N	1:2:338:TRP:O	131.14	0.54
1:5:71:MET:HB2	1:5:75:ARG:NH2	2.23	0.54
1:0:429:ARG:HH12	1:7:94:ARG:HH22	1.56	0.54
1:A:375:GLU:HG2	1:A:396:GLN:HE22	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:42:ASN:ND2	1:C:252:ASN:OD1	52.53	0.54
1:D:492:ASP:O	1:E:65:HIS:NE2	2.41	0.54
1:F:343:SER:HB3	1:F:345:GLY:O	2.08	0.54
1:H:316:ARG:HH21	1:W:98:ASN:HB2	1.67	0.54
1:H:338:TRP:O	1:Y:414:GLN:N	2.38	0.54
1:H:343:SER:HB3	1:H:345:GLY:O	2.08	0.54
1:G:528:TRP:CG	1:I:246:PRO:HG3	2.41	0.54
1:A:94:ARG:HH22	1:I:429:ARG:HH12	1.56	0.54
1:I:528:TRP:HB3	1:J:246:PRO:HG3	35.58	0.54
1:B:414:GLN:N	1:J:338:TRP:O	2.37	0.54
1:J:71:MET:HB2	1:J:75:ARG:NH2	2.23	0.54
1:P:63:LEU:HD23	1:P:203:ALA:HB2	1.90	0.54
1:N:98:ASN:HB2	1:P:316:ARG:HH21	44.04	0.54
1:P:65:HIS:NE2	1:Q:492:ASP:O	2.42	0.54
1:R:334:SER:OG	1:R:435:THR:CG2	2.56	0.54
1:S:63:LEU:HD23	1:S:203:ALA:HB2	1.90	0.54
1:R:414:GLN:N	1:S:338:TRP:O	2.38	0.54
1:U:194:ASP:HB3	1:U:207:PRO:HB3	1.89	0.54
1:S:528:TRP:CG	1:U:246:PRO:HG3	2.41	0.54
1:U:375:GLU:HG2	1:U:396:GLN:HE22	1.73	0.54
1:V:94:ARG:HH22	1:X:429:ARG:HH12	1.56	0.54
1:W:194:ASP:HB3	1:W:207:PRO:HB3	1.88	0.54
1:X:244:PHE:HE2	1:X:246:PRO:HB3	1.63	0.54
1:X:71:MET:HB2	1:X:75:ARG:NH2	2.23	0.54
1:Y:334:SER:OG	1:Y:435:THR:CG2	2.56	0.54
1:X:98:ASN:HB2	1:Z:316:ARG:HH21	100.69	0.54
1:O:134:ARG:HG3	1:O:135:GLU:OE1	2.07	0.54
1:3:71:MET:HB2	1:3:75:ARG:NH2	2.23	0.54
1:V:429:ARG:HH12	1:4:94:ARG:HH22	1.56	0.54
1:6:343:SER:HB3	1:6:345:GLY:O	2.08	0.54
1:7:63:LEU:HD23	1:7:203:ALA:HB2	1.90	0.54
1:A:360:TRP:HZ3	1:G:220:ASP:OD1	1.91	0.54
1:C:63:LEU:HD23	1:C:203:ALA:HB2	1.90	0.54
1:C:334:SER:OG	1:C:435:THR:CG2	2.56	0.54
1:F:71:MET:HB2	1:F:75:ARG:NH2	2.23	0.54
1:G:429:ARG:HH12	1:I:94:ARG:HH22	1.55	0.54
1:H:63:LEU:HD23	1:H:203:ALA:HB2	1.90	0.54
1:K:246:PRO:HG3	1:M:528:TRP:CG	132.16	0.54
1:L:71:MET:HB2	1:L:75:ARG:NH2	2.23	0.54
1:M:343:SER:HB3	1:M:345:GLY:O	2.08	0.54
1:D:414:GLN:N	1:N:338:TRP:O	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:492:ASP:O	1:N:65:HIS:NE2	162.34	0.54
1:N:528:TRP:CG	1:O:246:PRO:HG3	43.77	0.54
1:O:343:SER:HB3	1:O:345:GLY:O	2.08	0.54
1:O:59:HIS:HE1	1:O:515:LYS:HZ1	1.62	0.54
1:Q:194:ASP:HB3	1:Q:207:PRO:HB3	1.89	0.54
1:S:450:PRO:HD2	1:S:451:TRP:CZ3	2.42	0.54
1:T:246:PRO:HG3	1:V:528:TRP:CG	72.96	0.54
1:U:334:SER:OG	1:U:435:THR:CG2	2.56	0.54
1:X:492:ASP:O	1:5:65:HIS:NE2	2.41	0.54
1:2:71:MET:HB2	1:2:75:ARG:NH2	2.23	0.54
1:F:94:ARG:HH22	1:3:429:ARG:HH12	165.34	0.54
1:4:134:ARG:HG3	1:4:135:GLU:OE1	2.07	0.54
1:4:63:LEU:HD23	1:4:203:ALA:HB2	1.89	0.54
1:A:414:GLN:N	1:5:338:TRP:O	187.33	0.54
1:6:63:LEU:HD23	1:6:203:ALA:HB2	1.90	0.54
1:6:71:MET:HB2	1:6:75:ARG:NH2	2.23	0.54
1:7:286:ILE:HD11	1:7:327:SER:HB2	1.90	0.54
1:7:343:SER:HB3	1:7:345:GLY:O	2.08	0.54
1:7:70:ASP:OD1	1:7:71:MET:N	2.36	0.54
1:A:534:PRO:HD3	1:A:563:MET:HE1	1.98	0.54
1:A:71:MET:HB2	1:A:75:ARG:NH2	2.23	0.54
1:B:534:PRO:HD3	1:B:563:MET:HE1	1.90	0.54
1:B:71:MET:HB2	1:B:75:ARG:NH2	2.23	0.54
1:D:244:PHE:O	1:D:246:PRO:CD	2.56	0.54
1:E:63:LEU:HD23	1:E:203:ALA:HB2	1.90	0.54
1:E:316:ARG:HH21	1:Q:98:ASN:HB2	1.67	0.54
1:G:244:PHE:O	1:G:246:PRO:CD	2.56	0.54
1:G:257:ARG:CG	1:N:37:SER:CB	146.85	0.54
1:G:71:MET:HB2	1:G:75:ARG:NH2	2.23	0.54
1:H:244:PHE:O	1:H:246:PRO:CD	2.56	0.54
1:I:63:LEU:HD23	1:I:203:ALA:HB2	1.90	0.54
1:I:414:GLN:N	1:J:338:TRP:O	85.61	0.54
1:J:429:ARG:HH12	1:2:94:ARG:HH22	145.93	0.54
1:L:244:PHE:O	1:L:246:PRO:CD	2.56	0.54
1:N:244:PHE:O	1:N:246:PRO:CD	2.56	0.54
1:P:450:PRO:HD2	1:P:451:TRP:CZ3	2.42	0.54
1:P:71:MET:HB2	1:P:75:ARG:NH2	2.23	0.54
1:Q:244:PHE:O	1:Q:246:PRO:CD	2.56	0.54
1:L:257:ARG:CG	1:R:37:SER:HG	153.08	0.54
1:S:71:MET:HB2	1:S:75:ARG:NH2	2.23	0.54
1:U:343:SER:HB3	1:U:345:GLY:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:71:MET:HB2	1:U:75:ARG:NH2	2.23	0.54
1:W:375:GLU:HG2	1:W:396:GLN:HE22	1.73	0.54
1:W:65:HIS:NE2	1:7:492:ASP:O	162.35	0.54
1:X:244:PHE:O	1:X:246:PRO:CD	2.56	0.54
1:X:338:TRP:O	1:Z:414:GLN:N	123.39	0.54
1:H:98:ASN:HB2	1:Y:316:ARG:HH21	1.67	0.54
1:Y:343:SER:HB3	1:Y:345:GLY:O	2.08	0.54
1:Z:343:SER:HB3	1:Z:345:GLY:O	2.08	0.54
1:1:286:ILE:HD11	1:1:327:SER:HB2	1.90	0.54
1:1:334:SER:OG	1:1:435:THR:CG2	2.56	0.54
1:2:134:ARG:HG3	1:2:135:GLU:OE1	2.07	0.54
1:2:63:LEU:HD23	1:2:203:ALA:HB2	1.90	0.54
1:3:186:TRP:CZ2	1:3:188:ALA:HB3	2.42	0.54
1:4:334:SER:OG	1:4:435:THR:CG2	2.56	0.54
1:6:334:SER:OG	1:6:435:THR:CG2	2.56	0.54
1:7:375:GLU:HG2	1:7:396:GLN:HE22	1.73	0.54
1:K:94:ARG:HH22	1:7:429:ARG:HH12	1.56	0.54
1:A:85:PHE:CD1	1:A:99:ASP:CB	2.91	0.54
1:E:343:SER:HB3	1:E:345:GLY:O	2.08	0.54
1:E:85:PHE:CD1	1:E:99:ASP:CB	2.91	0.54
1:F:37:SER:CA	1:G:257:ARG:HG2	2.32	0.54
1:K:156:THR:O	1:K:163:THR:OG1	2.25	0.54
1:K:429:ARG:HH12	1:L:94:ARG:HH22	82.04	0.54
1:L:257:ARG:CG	1:R:37:SER:CB	151.80	0.54
1:G:94:ARG:HH22	1:O:429:ARG:HH12	214.40	0.54
1:Q:338:TRP:O	1:S:414:GLN:N	91.67	0.54
1:R:244:PHE:O	1:R:246:PRO:CD	2.56	0.54
1:T:63:LEU:HD23	1:T:203:ALA:HB2	1.90	0.54
1:T:94:ARG:HH22	1:V:429:ARG:HH12	128.93	0.54
1:V:63:LEU:HD23	1:V:203:ALA:HB2	1.90	0.54
1:V:286:ILE:HD11	1:V:327:SER:HB2	1.90	0.54
1:V:338:TRP:O	1:X:414:GLN:N	2.38	0.54
1:V:343:SER:HB3	1:V:345:GLY:O	2.08	0.54
1:W:100:SER:O	1:W:100:SER:OG	2.23	0.54
1:W:286:ILE:HD11	1:W:327:SER:HB2	1.90	0.54
1:G:65:HIS:NE2	1:W:492:ASP:O	2.41	0.54
1:Z:71:MET:HB2	1:Z:75:ARG:NH2	2.23	0.54
1:0:244:PHE:HE2	1:0:246:PRO:HB3	1.63	0.53
1:J:65:HIS:NE2	1:0:492:ASP:O	2.41	0.53
1:2:244:PHE:O	1:2:246:PRO:CD	2.56	0.53
1:I:246:PRO:HG3	1:2:528:TRP:CG	153.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:286:ILE:HD11	1:5:327:SER:HB2	1.90	0.53
1:7:71:MET:HB2	1:7:75:ARG:NH2	2.23	0.53
1:A:429:ARG:HH12	1:5:94:ARG:HH22	203.86	0.53
1:C:85:PHE:CD1	1:C:99:ASP:CB	2.92	0.53
1:D:156:THR:O	1:D:163:THR:OG1	2.25	0.53
1:D:85:PHE:CD1	1:D:99:ASP:CB	2.91	0.53
1:E:71:MET:HB2	1:E:75:ARG:NH2	2.23	0.53
1:F:244:PHE:O	1:F:246:PRO:CD	2.56	0.53
1:F:246:PRO:HG3	1:Q:528:TRP:CG	2.41	0.53
1:H:528:TRP:CG	1:O:246:PRO:HG3	162.06	0.53
1:G:323:SER:HG	1:I:98:ASN:HA	1.72	0.53
1:G:37:SER:CB	1:M:257:ARG:CG	159.15	0.53
1:M:85:PHE:CD1	1:M:99:ASP:CB	2.92	0.53
1:N:429:ARG:HH12	1:O:94:ARG:HH22	78.86	0.53
1:Q:246:PRO:CG	1:S:528:TRP:CB	100.23	0.53
1:Q:414:GLN:N	1:R:338:TRP:O	76.12	0.53
1:S:375:GLU:HG2	1:S:396:GLN:HE22	1.72	0.53
1:T:246:PRO:HG3	1:V:528:TRP:HB3	74.28	0.53
1:U:85:PHE:CD1	1:U:99:ASP:CB	2.91	0.53
1:V:375:GLU:HG2	1:V:396:GLN:HE22	1.73	0.53
1:W:343:SER:HB3	1:W:345:GLY:O	2.08	0.53
1:Y:98:ASN:HA	1:6:323:SER:HG	181.92	0.53
1:Z:375:GLU:HG2	1:Z:396:GLN:HE22	1.73	0.53
1:0:286:ILE:HD11	1:0:327:SER:HB2	1.90	0.53
1:0:85:PHE:CD1	1:0:99:ASP:CB	2.91	0.53
1:T:414:GLN:N	1:3:338:TRP:O	2.38	0.53
1:4:244:PHE:O	1:4:246:PRO:CD	2.56	0.53
1:V:528:TRP:HB3	1:4:246:PRO:HG3	1.85	0.53
1:X:94:ARG:HH22	1:4:429:ARG:HH12	1.56	0.53
1:4:85:PHE:CD1	1:4:99:ASP:CB	2.91	0.53
1:6:194:ASP:HB3	1:6:207:PRO:HB3	1.88	0.53
1:0:414:GLN:N	1:7:338:TRP:O	2.38	0.53
1:A:286:ILE:HD11	1:A:327:SER:HB2	1.90	0.53
1:A:338:TRP:O	1:I:414:GLN:N	2.37	0.53
1:A:343:SER:HB3	1:A:345:GLY:O	2.08	0.53
1:B:338:TRP:O	1:L:414:GLN:N	2.38	0.53
1:B:375:GLU:HG2	1:B:396:GLN:HE22	1.73	0.53
1:F:528:TRP:CG	1:T:246:PRO:HG3	166.31	0.53
1:G:85:PHE:CD1	1:G:99:ASP:CB	2.91	0.53
1:G:85:PHE:CD1	1:G:99:ASP:HB2	2.44	0.53
1:H:109:TRP:HZ3	1:H:485:LYS:HB3	1.67	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:71:MET:HB2	1:H:75:ARG:NH2	2.23	0.53
1:G:528:TRP:HB3	1:I:246:PRO:HG3	1.85	0.53
1:H:65:HIS:NE2	1:I:492:ASP:O	2.41	0.53
1:I:65:HIS:NE2	1:6:492:ASP:O	137.46	0.53
1:K:63:LEU:HD23	1:K:203:ALA:HB2	1.90	0.53
1:K:244:PHE:O	1:K:246:PRO:CD	2.56	0.53
1:K:85:PHE:CD1	1:K:99:ASP:CB	2.91	0.53
1:B:220:ASP:OD1	1:L:360:TRP:HZ3	1.92	0.53
1:L:375:GLU:HG2	1:L:396:GLN:HE22	1.73	0.53
1:M:71:MET:HB2	1:M:75:ARG:NH2	2.23	0.53
1:M:65:HIS:NE2	1:N:492:ASP:O	2.41	0.53
1:O:145:ILE:HD11	1:O:482:LEU:HD21	1.91	0.53
1:N:220:ASP:OD1	1:P:360:TRP:HZ3	36.01	0.53
1:P:492:ASP:O	1:U:65:HIS:NE2	116.25	0.53
1:F:94:ARG:HH22	1:Q:429:ARG:HH12	1.55	0.53
1:Q:85:PHE:CD1	1:Q:99:ASP:CB	2.91	0.53
1:L:492:ASP:O	1:R:65:HIS:NE2	192.10	0.53
1:R:85:PHE:CD1	1:R:99:ASP:CB	2.91	0.53
1:T:145:ILE:HD11	1:T:482:LEU:HD21	1.91	0.53
1:U:528:TRP:CG	1:V:246:PRO:HG3	43.77	0.53
1:V:65:HIS:NE2	1:W:492:ASP:O	41.97	0.53
1:V:71:MET:HB2	1:V:75:ARG:NH2	2.23	0.53
1:V:85:PHE:CD1	1:V:99:ASP:CB	2.91	0.53
1:V:85:PHE:CD1	1:V:99:ASP:HB2	2.44	0.53
1:V:492:ASP:O	1:W:65:HIS:NE2	2.41	0.53
1:X:85:PHE:CD1	1:X:99:ASP:CB	2.92	0.53
1:X:85:PHE:CD1	1:X:99:ASP:HB2	2.44	0.53
1:Y:286:ILE:HD11	1:Y:327:SER:HB2	1.90	0.53
1:Y:85:PHE:CD1	1:Y:99:ASP:CB	2.91	0.53
1:O:85:PHE:CD1	1:O:99:ASP:HB2	2.44	0.53
1:I:220:ASP:OD1	1:2:360:TRP:HZ3	198.89	0.53
1:3:194:ASP:HB3	1:3:207:PRO:HB3	1.89	0.53
1:X:220:ASP:OD1	1:4:360:TRP:HZ3	1.92	0.53
1:4:145:ILE:HD11	1:4:482:LEU:HD21	1.91	0.53
1:A:129:LEU:HD11	1:A:136:ILE:HD13	1.91	0.53
1:A:85:PHE:CD1	1:A:99:ASP:HB2	2.44	0.53
1:B:286:ILE:HD11	1:B:327:SER:HB2	1.90	0.53
1:C:343:SER:HB3	1:C:345:GLY:O	2.08	0.53
1:D:338:TRP:O	1:P:414:GLN:N	2.38	0.53
1:D:85:PHE:CD1	1:D:99:ASP:HB2	2.44	0.53
1:E:244:PHE:O	1:E:246:PRO:CD	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:85:PHE:CD1	1:E:99:ASP:HB2	2.44	0.53
1:F:145:ILE:HD11	1:F:482:LEU:HD21	1.91	0.53
1:I:145:ILE:HD11	1:I:482:LEU:HD21	1.91	0.53
1:M:156:THR:O	1:M:163:THR:OG1	2.25	0.53
1:N:129:LEU:HD11	1:N:136:ILE:HD13	1.91	0.53
1:N:343:SER:HB3	1:N:345:GLY:O	2.08	0.53
1:N:71:MET:HB2	1:N:75:ARG:NH2	2.23	0.53
1:H:528:TRP:HB3	1:O:246:PRO:HG3	163.32	0.53
1:H:429:ARG:HH12	1:O:94:ARG:HH22	236.14	0.53
1:P:244:PHE:O	1:P:246:PRO:CD	2.56	0.53
1:P:375:GLU:HG2	1:P:396:GLN:HE22	1.73	0.53
1:Q:191:PHE:CE1	1:Q:470:HIS:HE1	2.16	0.53
1:E:360:TRP:HZ3	1:Q:220:ASP:OD1	1.92	0.53
1:Q:85:PHE:CD1	1:Q:99:ASP:HB2	2.44	0.53
1:R:129:LEU:HD11	1:R:136:ILE:HD13	1.91	0.53
1:R:343:SER:HB3	1:R:345:GLY:O	2.08	0.53
1:R:98:ASN:HA	1:U:323:SER:HG	1.71	0.53
1:S:145:ILE:HD11	1:S:482:LEU:HD21	1.91	0.53
1:F:360:TRP:HZ3	1:T:220:ASP:OD1	172.48	0.53
1:T:338:TRP:O	1:V:414:GLN:N	123.39	0.53
1:T:492:ASP:O	1:X:65:HIS:NE2	116.25	0.53
1:U:85:PHE:CD1	1:U:99:ASP:HB2	2.44	0.53
1:O:37:SER:CA	1:V:257:ARG:HG2	112.44	0.53
1:W:63:LEU:HD23	1:W:203:ALA:HB2	1.90	0.53
1:H:528:TRP:HB3	1:W:246:PRO:HG3	1.85	0.53
1:W:145:ILE:HD11	1:W:482:LEU:HD21	1.91	0.53
1:X:63:LEU:HD23	1:X:203:ALA:HB2	1.90	0.53
1:Y:129:LEU:HD11	1:Y:136:ILE:HD13	1.91	0.53
1:Z:286:ILE:HD11	1:Z:327:SER:HB2	1.90	0.53
1:Z:145:ILE:HD11	1:Z:482:LEU:HD21	1.91	0.53
1:K:429:ARG:HH12	1:O:94:ARG:HH22	1.56	0.53
1:I:343:SER:HB3	1:I:345:GLY:O	2.08	0.53
1:M:246:PRO:HG3	1:I:528:TRP:CG	2.41	0.53
1:5:375:GLU:HG2	1:5:396:GLN:HE22	1.72	0.53
1:A:244:PHE:O	1:A:246:PRO:CD	2.56	0.53
1:B:129:LEU:HD11	1:B:136:ILE:HD13	1.91	0.53
1:B:244:PHE:O	1:B:246:PRO:CD	2.56	0.53
1:B:492:ASP:O	1:C:65:HIS:NE2	2.41	0.53
1:A:492:ASP:O	1:B:65:HIS:NE2	2.40	0.53
1:C:85:PHE:CD1	1:C:99:ASP:HB2	2.44	0.53
1:D:173:LEU:HD22	1:D:255:LEU:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:220:ASP:OD1	1:E:360:TRP:HZ3	118.47	0.53
1:E:375:GLU:HG2	1:E:396:GLN:HE22	1.73	0.53
1:F:173:LEU:HD22	1:F:255:LEU:HD12	1.91	0.53
1:F:375:GLU:HG2	1:F:396:GLN:HE22	1.73	0.53
1:G:375:GLU:HG2	1:G:396:GLN:HE22	1.73	0.53
1:H:220:ASP:OD1	1:Y:360:TRP:HZ3	1.92	0.53
1:G:414:GLN:N	1:H:338:TRP:O	76.12	0.53
1:H:360:TRP:HZ3	1:O:220:ASP:OD1	221.72	0.53
1:J:360:TRP:HZ3	1:L:220:ASP:OD1	1.92	0.53
1:K:360:TRP:HZ3	1:O:220:ASP:OD1	1.92	0.53
1:K:145:ILE:HD11	1:K:482:LEU:HD21	1.91	0.53
1:J:414:GLN:N	1:L:338:TRP:O	2.38	0.53
1:N:85:PHE:CD1	1:N:99:ASP:CB	2.91	0.53
1:O:375:GLU:HG2	1:O:396:GLN:HE22	1.73	0.53
1:O:71:MET:HB2	1:O:75:ARG:NH2	2.23	0.53
1:N:414:GLN:N	1:P:338:TRP:O	2.38	0.53
1:Q:145:ILE:HD11	1:Q:482:LEU:HD21	1.91	0.53
1:Q:71:MET:HB2	1:Q:75:ARG:NH2	2.23	0.53
1:T:71:MET:HB2	1:T:75:ARG:NH2	2.23	0.53
1:T:98:ASN:HA	1:V:323:SER:HG	99.89	0.53
1:V:129:LEU:HD11	1:V:136:ILE:HD13	1.91	0.53
1:V:145:ILE:HD11	1:V:482:LEU:HD21	1.91	0.53
1:W:129:LEU:HD11	1:W:136:ILE:HD13	1.91	0.53
1:Y:429:ARG:HH12	1:Z:94:ARG:HH22	78.86	0.53
1:Y:71:MET:HB2	1:Y:75:ARG:NH2	2.23	0.53
1:X:220:ASP:OD1	1:Z:360:TRP:HZ3	121.57	0.53
1:C:360:TRP:HZ3	1:1:220:ASP:OD1	1.92	0.53
1:1:71:MET:HB2	1:1:75:ARG:NH2	2.23	0.53
1:3:85:PHE:CD1	1:3:99:ASP:CB	2.91	0.53
1:A:528:TRP:CG	1:5:246:PRO:HG3	159.95	0.53
1:O:360:TRP:HZ3	1:7:220:ASP:OD1	1.92	0.53
1:D:145:ILE:HD11	1:D:482:LEU:HD21	1.91	0.53
1:G:129:LEU:HD11	1:G:136:ILE:HD13	1.91	0.53
1:A:417:LEU:HB2	1:G:338:TRP:CD1	2.44	0.53
1:H:129:LEU:HD11	1:H:136:ILE:HD13	1.91	0.53
1:H:173:LEU:HD22	1:H:255:LEU:HD12	1.91	0.53
1:H:85:PHE:CD1	1:H:99:ASP:HB2	2.44	0.53
1:I:71:MET:HB2	1:I:75:ARG:NH2	2.23	0.53
1:K:375:GLU:HG2	1:K:396:GLN:HE22	1.73	0.53
1:M:129:LEU:HD11	1:M:136:ILE:HD13	1.91	0.53
1:M:85:PHE:CD1	1:M:99:ASP:HB2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:360:TRP:HZ3	1:O:220:ASP:OD1	74.66	0.53
1:N:85:PHE:CD1	1:N:99:ASP:HB2	2.44	0.53
1:O:173:LEU:HD22	1:O:255:LEU:HD12	1.91	0.53
1:P:173:LEU:HD22	1:P:255:LEU:HD12	1.91	0.53
1:N:360:TRP:HZ3	1:P:220:ASP:OD1	1.92	0.53
1:R:63:LEU:HD23	1:R:203:ALA:HB2	1.90	0.53
1:D:65:HIS:NE2	1:R:492:ASP:O	142.48	0.53
1:R:528:TRP:CB	1:S:246:PRO:CG	2.65	0.53
1:R:71:MET:HB2	1:R:75:ARG:NH2	2.23	0.53
1:R:360:TRP:HZ3	1:S:220:ASP:OD1	1.92	0.53
1:C:65:HIS:NE2	1:T:492:ASP:O	203.51	0.53
1:T:85:PHE:CD1	1:T:99:ASP:HB2	2.44	0.53
1:X:257:ARG:HG2	1:Y:37:SER:CA	24.04	0.53
1:V:220:ASP:OD1	1:X:360:TRP:HZ3	1.92	0.53
1:Y:244:PHE:O	1:Y:246:PRO:CD	2.56	0.53
1:W:360:TRP:HZ3	1:Z:220:ASP:OD1	103.24	0.53
1:O:63:LEU:HD23	1:O:203:ALA:HB2	1.90	0.53
1:I:145:ILE:HD11	1:I:482:LEU:HD21	1.91	0.53
1:I:85:PHE:CD1	1:I:99:ASP:CB	2.91	0.53
1:A:391:ARG:HH22	1:I:309:ASN:HB2	1.74	0.53
1:B:85:PHE:CD1	1:B:99:ASP:HB2	2.44	0.53
1:C:71:MET:HB2	1:C:75:ARG:NH2	2.23	0.53
1:D:429:ARG:HH12	1:E:94:ARG:HH22	103.15	0.53
1:A:37:SER:CB	1:E:257:ARG:CG	2.76	0.53
1:F:129:LEU:HD11	1:F:136:ILE:HD13	1.91	0.53
1:F:85:PHE:CD1	1:F:99:ASP:HB2	2.44	0.53
1:G:173:LEU:HD22	1:G:255:LEU:HD12	1.91	0.53
1:G:145:ILE:HD11	1:G:482:LEU:HD21	1.91	0.53
1:G:547:PRO:HA	1:G:553:PHE:HB3	1.91	0.53
1:H:244:PHE:HE2	1:H:246:PRO:HB3	1.63	0.53
1:H:429:ARG:HH12	1:W:94:ARG:HH22	1.56	0.53
1:I:244:PHE:O	1:I:246:PRO:CD	2.56	0.53
1:I:316:ARG:HH21	1:J:98:ASN:HB2	79.97	0.53
1:G:414:GLN:N	1:I:338:TRP:O	2.37	0.53
1:I:85:PHE:CD1	1:I:99:ASP:HB2	2.44	0.53
1:B:528:TRP:CG	1:J:246:PRO:HG3	2.41	0.53
1:J:63:LEU:HD23	1:J:203:ALA:HB2	1.90	0.53
1:J:85:PHE:CD1	1:J:99:ASP:CB	2.91	0.53
1:K:220:ASP:OD1	1:7:360:TRP:HZ3	1.92	0.53
1:K:246:PRO:HG3	1:M:528:TRP:HB3	131.14	0.53
1:H:492:ASP:O	1:L:65:HIS:NE2	116.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:85:PHE:CD1	1:L:99:ASP:CB	2.91	0.53
1:M:244:PHE:O	1:M:246:PRO:CD	2.56	0.53
1:M:173:LEU:HD22	1:M:255:LEU:HD12	1.91	0.53
1:L:414:GLN:N	1:M:338:TRP:O	97.08	0.53
1:K:94:ARG:HH22	1:M:429:ARG:HH12	146.46	0.53
1:M:98:ASN:HA	1:1:323:SER:HG	1.74	0.53
1:O:547:PRO:HA	1:O:553:PHE:HB3	1.91	0.53
1:O:65:HIS:NE2	1:P:492:ASP:O	2.41	0.53
1:P:37:SER:CB	1:Q:257:ARG:CG	2.74	0.53
1:F:220:ASP:OD1	1:Q:360:TRP:HZ3	1.92	0.53
1:R:85:PHE:CD1	1:R:99:ASP:HB2	2.44	0.53
1:S:173:LEU:HD22	1:S:255:LEU:HD12	1.91	0.53
1:T:129:LEU:HD11	1:T:136:ILE:HD13	1.91	0.53
1:W:246:PRO:HG3	1:X:528:TRP:HB3	45.69	0.53
1:W:94:ARG:HH22	1:X:429:ARG:HH12	78.86	0.53
1:O:129:LEU:HD11	1:O:136:ILE:HD13	1.91	0.53
1:2:129:LEU:HD11	1:2:136:ILE:HD13	1.91	0.53
1:2:375:GLU:HG2	1:2:396:GLN:HE22	1.73	0.53
1:2:145:ILE:HD11	1:2:482:LEU:HD21	1.91	0.53
1:2:85:PHE:CD1	1:2:99:ASP:HB2	2.44	0.53
1:V:360:TRP:HZ3	1:4:220:ASP:OD1	1.92	0.53
1:4:375:GLU:HG2	1:4:396:GLN:HE22	1.73	0.53
1:5:63:LEU:HD23	1:5:203:ALA:HB2	1.90	0.53
1:7:85:PHE:CD1	1:7:99:ASP:CB	2.91	0.53
1:B:145:ILE:HD11	1:B:482:LEU:HD21	1.91	0.53
1:B:85:PHE:CD1	1:B:99:ASP:CB	2.91	0.53
1:D:375:GLU:HG2	1:D:396:GLN:HE22	1.73	0.53
1:D:71:MET:HB2	1:D:75:ARG:NH2	2.23	0.53
1:E:220:ASP:OD1	1:F:360:TRP:HZ3	1.92	0.53
1:E:492:ASP:O	1:Q:65:HIS:NE2	104.05	0.53
1:E:547:PRO:HA	1:E:553:PHE:HB3	1.91	0.53
1:F:547:PRO:HA	1:F:553:PHE:HB3	1.91	0.53
1:I:129:LEU:HD11	1:I:136:ILE:HD13	1.91	0.53
1:L:145:ILE:HD11	1:L:482:LEU:HD21	1.91	0.53
1:K:360:TRP:HZ3	1:L:220:ASP:OD1	54.26	0.53
1:K:220:ASP:OD1	1:M:360:TRP:HZ3	151.70	0.53
1:N:417:LEU:HB2	1:O:338:TRP:CD1	71.52	0.53
1:G:220:ASP:OD1	1:O:360:TRP:HZ3	186.79	0.53
1:P:547:PRO:HA	1:P:553:PHE:HB3	1.91	0.53
1:F:492:ASP:O	1:R:65:HIS:NE2	2.41	0.53
1:Q:65:HIS:NE2	1:S:492:ASP:O	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:85:PHE:CD1	1:S:99:ASP:CB	2.91	0.53
1:S:85:PHE:CD1	1:S:99:ASP:HB2	2.44	0.53
1:T:244:PHE:O	1:T:246:PRO:CD	2.56	0.53
1:T:414:GLN:N	1:U:338:TRP:O	85.61	0.53
1:U:360:TRP:HZ3	1:V:220:ASP:OD1	74.66	0.53
1:V:244:PHE:O	1:V:246:PRO:CD	2.56	0.53
1:T:98:ASN:HB2	1:V:316:ARG:HH21	100.69	0.53
1:W:360:TRP:HZ3	1:Y:220:ASP:OD1	1.92	0.53
1:W:85:PHE:CD1	1:W:99:ASP:HB2	2.44	0.53
1:X:129:LEU:HD11	1:X:136:ILE:HD13	1.91	0.53
1:Z:129:LEU:HD11	1:Z:136:ILE:HD13	1.91	0.53
1:I:492:ASP:O	1:I:65:HIS:NE2	142.48	0.53
1:2:343:SER:HB3	1:2:345:GLY:O	2.08	0.53
1:3:100:SER:O	1:3:100:SER:OG	2.23	0.53
1:F:220:ASP:OD1	1:3:360:TRP:HZ3	143.08	0.53
1:4:71:MET:HB2	1:4:75:ARG:NH2	2.23	0.53
1:5:85:PHE:CD1	1:5:99:ASP:CB	2.91	0.53
1:6:244:PHE:O	1:6:246:PRO:CD	2.56	0.53
1:7:173:LEU:HD22	1:7:255:LEU:HD12	1.91	0.53
1:7:85:PHE:CD1	1:7:99:ASP:HB2	2.44	0.53
1:A:413:HIS:HA	1:5:339:GLN:HA	187.50	0.53
1:B:343:SER:HB3	1:B:345:GLY:O	2.08	0.53
1:B:413:HIS:HA	1:J:339:GLN:HA	1.91	0.53
1:C:145:ILE:HD11	1:C:482:LEU:HD21	1.91	0.53
1:C:528:TRP:CG	1:D:246:PRO:HG3	101.93	0.53
1:C:360:TRP:HZ3	1:D:220:ASP:OD1	106.19	0.53
1:D:534:PRO:HD3	1:D:563:MET:HE1	1.96	0.53
1:G:316:ARG:HH21	1:I:98:ASN:HB2	1.67	0.53
1:G:338:TRP:CD1	1:O:417:LEU:HB2	205.96	0.53
1:G:360:TRP:HZ3	1:I:220:ASP:OD1	1.92	0.53
1:I:338:TRP:CD1	1:2:417:LEU:HB2	185.83	0.53
1:I:343:SER:HB3	1:I:345:GLY:O	2.08	0.53
1:I:85:PHE:CD1	1:I:99:ASP:CB	2.91	0.53
1:J:492:ASP:O	1:Z:65:HIS:NE2	41.90	0.53
1:K:246:PRO:HG3	1:7:528:TRP:HB3	1.85	0.53
1:K:71:MET:HB2	1:K:75:ARG:NH2	2.23	0.53
1:L:360:TRP:HZ3	1:M:220:ASP:OD1	88.07	0.53
1:L:547:PRO:HA	1:L:553:PHE:HB3	1.91	0.53
1:K:338:TRP:CD1	1:M:417:LEU:HB2	122.38	0.53
1:N:492:ASP:O	1:S:65:HIS:NE2	138.21	0.53
1:N:547:PRO:HA	1:N:553:PHE:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:65:HIS:NE2	1:Z:492:ASP:O	187.14	0.53
1:O:85:PHE:CD1	1:O:99:ASP:HB2	2.44	0.53
1:P:85:PHE:CD1	1:P:99:ASP:CB	2.91	0.53
1:P:85:PHE:CD1	1:P:99:ASP:HB2	2.44	0.53
1:F:338:TRP:CD1	1:Q:417:LEU:HB2	2.44	0.53
1:R:417:LEU:HB2	1:S:338:TRP:CD1	2.44	0.53
1:S:547:PRO:HA	1:S:553:PHE:HB3	1.91	0.53
1:F:417:LEU:HB2	1:T:338:TRP:CD1	145.29	0.53
1:F:414:GLN:N	1:T:338:TRP:O	148.66	0.53
1:T:85:PHE:CD1	1:T:99:ASP:CB	2.91	0.53
1:U:129:LEU:HD11	1:U:136:ILE:HD13	1.91	0.53
1:U:244:PHE:O	1:U:246:PRO:CD	2.56	0.53
1:U:145:ILE:HD11	1:U:482:LEU:HD21	1.91	0.53
1:V:173:LEU:HD22	1:V:255:LEU:HD12	1.91	0.53
1:T:220:ASP:OD1	1:V:360:TRP:HZ3	121.57	0.53
1:W:431:SER:HG	1:W:433:HIS:CD2	2.25	0.53
1:Y:246:PRO:HG3	1:6:528:TRP:CG	153.41	0.53
1:O:492:ASP:O	1:Y:65:HIS:NE2	187.14	0.53
1:Z:173:LEU:HD22	1:Z:255:LEU:HD12	1.91	0.53
1:Y:417:LEU:HB2	1:Z:338:TRP:CD1	71.52	0.53
1:Z:85:PHE:CD1	1:Z:99:ASP:HB2	2.44	0.53
1:M:220:ASP:OD1	1:1:360:TRP:HZ3	1.92	0.53
1:J:417:LEU:HB2	1:2:338:TRP:CD1	120.07	0.53
1:T:360:TRP:HZ3	1:3:220:ASP:OD1	1.91	0.53
1:3:244:PHE:O	1:3:246:PRO:CD	2.56	0.53
1:T:429:ARG:HH12	1:3:94:ARG:NH2	2.07	0.53
1:4:286:ILE:HD11	1:4:327:SER:HB2	1.90	0.53
1:Y:339:GLN:HA	1:6:413:HIS:HA	192.54	0.53
1:6:85:PHE:CD1	1:6:99:ASP:CB	2.92	0.53
1:A:492:ASP:O	1:E:65:HIS:NE2	41.94	0.53
1:D:129:LEU:HD11	1:D:136:ILE:HD13	1.91	0.53
1:C:492:ASP:O	1:D:65:HIS:NE2	2.42	0.53
1:E:338:TRP:CD1	1:F:417:LEU:HB2	2.44	0.53
1:G:417:LEU:HB2	1:I:338:TRP:CD1	2.44	0.53
1:F:65:HIS:NE2	1:G:492:ASP:O	2.41	0.53
1:G:534:PRO:HD3	1:G:563:MET:HE1	1.91	0.53
1:H:100:SER:O	1:H:100:SER:OG	2.23	0.53
1:H:257:ARG:HG2	1:Z:37:SER:CA	2.31	0.53
1:H:391:ARG:HH22	1:Y:309:ASN:HB2	1.74	0.53
1:I:391:ARG:HH22	1:2:309:ASN:HB2	160.30	0.53
1:J:244:PHE:O	1:J:246:PRO:CD	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:360:TRP:HZ3	1:2:220:ASP:OD1	151.65	0.53
1:J:65:HIS:NE2	1:K:492:ASP:O	104.60	0.53
1:I:429:ARG:HH12	1:J:94:ARG:NH2	82.37	0.53
1:L:129:LEU:HD11	1:L:136:ILE:HD13	1.91	0.53
1:O:413:HIS:HA	1:P:339:GLN:HA	81.47	0.53
1:O:534:PRO:HD3	1:O:563:MET:HE1	1.90	0.53
1:O:85:PHE:CD1	1:O:99:ASP:CB	2.92	0.53
1:O:360:TRP:HZ3	1:P:220:ASP:OD1	54.26	0.53
1:D:94:ARG:HH22	1:P:429:ARG:HH12	1.56	0.53
1:Q:547:PRO:HA	1:Q:553:PHE:HB3	1.91	0.53
1:R:246:PRO:HG3	1:U:528:TRP:CG	2.41	0.53
1:R:547:PRO:HA	1:R:553:PHE:HB3	1.91	0.53
1:S:560:GLY:H	1:S:562:ALA:N	2.07	0.53
1:S:65:HIS:NE2	1:3:492:ASP:O	2.41	0.53
1:T:338:TRP:CD1	1:V:417:LEU:HB2	115.90	0.53
1:T:343:SER:HB3	1:T:345:GLY:O	2.08	0.53
1:F:309:ASN:HB2	1:T:391:ARG:HH22	158.06	0.53
1:U:173:LEU:HD22	1:U:255:LEU:HD12	1.91	0.53
1:U:414:GLN:N	1:V:338:TRP:O	76.11	0.53
1:Y:560:GLY:H	1:Y:562:ALA:N	2.07	0.53
1:Y:85:PHE:CD1	1:Y:99:ASP:HB2	2.44	0.53
1:Z:547:PRO:HA	1:Z:553:PHE:HB3	1.91	0.53
1:Z:85:PHE:CD1	1:Z:99:ASP:CB	2.91	0.53
1:2:547:PRO:HA	1:2:553:PHE:HB3	1.91	0.53
1:2:85:PHE:HD1	1:2:99:ASP:CB	2.22	0.53
1:B:391:ARG:HH22	1:5:309:ASN:HB2	219.11	0.53
1:6:173:LEU:HD22	1:6:255:LEU:HD12	1.91	0.53
1:6:145:ILE:HD11	1:6:482:LEU:HD21	1.91	0.53
1:6:560:GLY:H	1:6:562:ALA:N	2.07	0.53
1:7:244:PHE:O	1:7:246:PRO:CD	2.56	0.53
1:7:300:GLY:HA2	1:7:301:GLN:CB	2.33	0.53
1:A:173:LEU:HD22	1:A:255:LEU:HD12	1.91	0.53
1:A:429:ARG:HH12	1:G:94:ARG:NH2	2.07	0.53
1:A:560:GLY:H	1:A:562:ALA:N	2.07	0.53
1:B:85:PHE:HD1	1:B:99:ASP:CB	2.22	0.53
1:D:257:ARG:CG	1:E:37:SER:CB	2.72	0.53
1:F:101:TYR:CZ	1:F:236:GLY:HA3	2.44	0.53
1:E:339:GLN:HA	1:F:413:HIS:HA	1.91	0.53
1:F:85:PHE:HD1	1:F:99:ASP:CB	2.22	0.53
1:G:429:ARG:HH12	1:I:94:ARG:NH2	2.07	0.53
1:G:65:HIS:NE2	1:M:492:ASP:O	191.86	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:547:PRO:HA	1:H:553:PHE:HB3	1.91	0.53
1:H:85:PHE:CD1	1:H:99:ASP:CB	2.91	0.53
1:I:547:PRO:HA	1:I:553:PHE:HB3	1.91	0.53
1:K:417:LEU:HB2	1:L:338:TRP:CD1	90.97	0.53
1:L:85:PHE:CD1	1:L:99:ASP:HB2	2.44	0.53
1:L:85:PHE:HD1	1:L:99:ASP:CB	2.22	0.53
1:O:129:LEU:HD11	1:O:136:ILE:HD13	1.91	0.53
1:O:244:PHE:O	1:O:246:PRO:CD	2.56	0.53
1:O:560:GLY:H	1:O:562:ALA:N	2.07	0.53
1:O:417:LEU:HB2	1:P:338:TRP:CD1	90.97	0.53
1:D:220:ASP:OD1	1:P:360:TRP:HZ3	1.92	0.53
1:P:145:ILE:HD11	1:P:482:LEU:HD21	1.91	0.53
1:R:338:TRP:CD1	1:U:417:LEU:HB2	2.44	0.53
1:K:65:HIS:NE2	1:S:492:ASP:O	192.20	0.53
1:T:547:PRO:HA	1:T:553:PHE:HB3	1.91	0.53
1:T:309:ASN:HB2	1:U:391:ARG:HH22	89.11	0.53
1:U:560:GLY:H	1:U:562:ALA:N	2.07	0.53
1:O:65:HIS:NE2	1:V:492:ASP:O	151.27	0.53
1:W:547:PRO:HA	1:W:553:PHE:HB3	1.91	0.53
1:W:85:PHE:HD1	1:W:99:ASP:CB	2.22	0.53
1:Y:338:TRP:CD1	1:6:417:LEU:HB2	185.82	0.53
1:H:94:ARG:HH22	1:Y:429:ARG:HH12	1.55	0.53
1:Z:244:PHE:O	1:Z:246:PRO:CD	2.56	0.53
1:X:391:ARG:HH22	1:Z:309:ASN:HB2	75.79	0.53
1:Z:560:GLY:H	1:Z:562:ALA:N	2.07	0.53
1:2:560:GLY:H	1:2:562:ALA:N	2.07	0.52
1:3:156:THR:O	1:3:163:THR:OG1	2.25	0.52
1:O:492:ASP:O	1:3:65:HIS:NE2	2.41	0.52
1:B:228:ASN:OD1	1:5:429:ARG:NH2	256.79	0.52
1:A:371:GLN:HE22	1:B:415:SER:C	97.74	0.52
1:B:98:ASN:HA	1:5:323:SER:HG	231.27	0.52
1:E:560:GLY:H	1:E:562:ALA:N	2.07	0.52
1:F:338:TRP:CD1	1:3:417:LEU:HB2	163.18	0.52
1:F:560:GLY:H	1:F:562:ALA:N	2.07	0.52
1:G:116:CYS:HB2	1:G:119:VAL:HG23	1.92	0.52
1:G:360:TRP:HZ3	1:H:220:ASP:OD1	74.67	0.52
1:H:339:GLN:HA	1:Y:413:HIS:HA	1.92	0.52
1:I:338:TRP:O	1:2:414:GLN:N	193.44	0.52
1:I:360:TRP:HZ3	1:J:220:ASP:OD1	54.26	0.52
1:J:129:LEU:HD11	1:J:136:ILE:HD13	1.91	0.52
1:J:145:ILE:HD11	1:J:482:LEU:HD21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:85:PHE:CD1	1:K:99:ASP:HB2	2.44	0.52
1:L:173:LEU:HD22	1:L:255:LEU:HD12	1.91	0.52
1:C:94:ARG:HH22	1:M:429:ARG:HH12	1.56	0.52
1:M:547:PRO:HA	1:M:553:PHE:HB3	1.91	0.52
1:P:129:LEU:HD11	1:P:136:ILE:HD13	1.91	0.52
1:N:417:LEU:HB2	1:P:338:TRP:CD1	2.44	0.52
1:D:338:TRP:CD1	1:P:417:LEU:HB2	2.44	0.52
1:O:429:ARG:HH12	1:P:94:ARG:HH22	82.04	0.52
1:R:339:GLN:HA	1:U:413:HIS:HA	1.92	0.52
1:R:534:PRO:HD3	1:R:563:MET:HE1	1.96	0.52
1:R:85:PHE:HD1	1:R:99:ASP:CB	2.22	0.52
1:R:94:ARG:NH2	1:U:429:ARG:HH12	2.08	0.52
1:Q:220:ASP:OD1	1:S:360:TRP:HZ3	106.19	0.52
1:Q:338:TRP:CD1	1:S:417:LEU:HB2	90.71	0.52
1:T:360:TRP:HZ3	1:U:220:ASP:OD1	54.26	0.52
1:T:94:ARG:NH2	1:V:429:ARG:HH12	128.15	0.52
1:V:116:CYS:HB2	1:V:119:VAL:HG23	1.91	0.52
1:V:417:LEU:HB2	1:4:338:TRP:CD1	2.44	0.52
1:V:547:PRO:HA	1:V:553:PHE:HB3	1.91	0.52
1:W:220:ASP:OD1	1:X:360:TRP:HZ3	74.66	0.52
1:X:339:GLN:HA	1:Z:413:HIS:HA	123.00	0.52
1:Y:101:TYR:CZ	1:Y:236:GLY:HA3	2.44	0.52
1:Y:145:ILE:HD11	1:Y:482:LEU:HD21	1.91	0.52
1:Y:547:PRO:HA	1:Y:553:PHE:HB3	1.91	0.52
1:Y:85:PHE:HD1	1:Y:99:ASP:CB	2.22	0.52
1:Y:528:TRP:CB	1:Z:246:PRO:CG	44.15	0.52
1:1:173:LEU:HD22	1:1:255:LEU:HD12	1.91	0.52
1:C:413:HIS:HA	1:1:339:GLN:HA	1.91	0.52
1:C:429:ARG:HH12	1:1:94:ARG:HH22	1.56	0.52
1:3:129:LEU:HD11	1:3:136:ILE:HD13	1.91	0.52
1:3:145:ILE:HD11	1:3:482:LEU:HD21	1.91	0.52
1:3:85:PHE:CD1	1:3:99:ASP:HB2	2.44	0.52
1:V:413:HIS:HA	1:4:339:GLN:HA	1.91	0.52
1:X:338:TRP:CD1	1:4:417:LEU:HB2	2.44	0.52
1:4:85:PHE:CD1	1:4:99:ASP:HB2	2.44	0.52
1:B:469:ALA:CB	1:5:439:TYR:CE1	203.40	0.52
1:6:129:LEU:HD11	1:6:136:ILE:HD13	1.91	0.52
1:Y:220:ASP:OD1	1:6:360:TRP:HZ3	198.88	0.52
1:6:375:GLU:HG2	1:6:396:GLN:HE22	1.73	0.52
1:0:413:HIS:HA	1:7:339:GLN:HA	1.92	0.52
1:K:338:TRP:CD1	1:7:417:LEU:HB2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:560:GLY:H	1:B:562:ALA:N	2.07	0.52
1:B:94:ARG:HH22	1:L:429:ARG:HH12	1.56	0.52
1:C:547:PRO:HA	1:C:553:PHE:HB3	1.91	0.52
1:C:94:ARG:HH22	1:E:429:ARG:HH12	142.86	0.52
1:C:429:ARG:HH12	1:D:94:ARG:HH22	103.15	0.52
1:E:116:CYS:HB2	1:E:119:VAL:HG23	1.91	0.52
1:E:129:LEU:HD11	1:E:136:ILE:HD13	1.91	0.52
1:E:173:LEU:HD22	1:E:255:LEU:HD12	1.91	0.52
1:E:94:ARG:HH22	1:F:429:ARG:HH12	1.56	0.52
1:F:339:GLN:HA	1:Q:413:HIS:HA	1.91	0.52
1:D:492:ASP:O	1:F:65:HIS:NE2	84.62	0.52
1:F:85:PHE:CD1	1:F:99:ASP:CB	2.91	0.52
1:H:417:LEU:HB2	1:O:338:TRP:CD1	214.24	0.52
1:I:560:GLY:H	1:I:562:ALA:N	2.07	0.52
1:J:85:PHE:CD1	1:J:99:ASP:HB2	2.44	0.52
1:K:338:TRP:O	1:M:414:GLN:N	131.00	0.52
1:K:339:GLN:HA	1:7:413:HIS:HA	1.92	0.52
1:B:338:TRP:CD1	1:L:417:LEU:HB2	2.44	0.52
1:L:560:GLY:H	1:L:562:ALA:N	2.07	0.52
1:J:429:ARG:HH12	1:L:94:ARG:NH2	2.08	0.52
1:N:413:HIS:HA	1:O:339:GLN:HA	76.09	0.52
1:H:414:GLN:N	1:O:338:TRP:O	221.08	0.52
1:N:309:ASN:HB2	1:O:391:ARG:HH22	46.35	0.52
1:P:116:CYS:HB2	1:P:119:VAL:HG23	1.92	0.52
1:R:173:LEU:HD22	1:R:255:LEU:HD12	1.91	0.52
1:S:116:CYS:HB2	1:S:119:VAL:HG23	1.91	0.52
1:S:429:ARG:HH12	1:U:94:ARG:HH22	1.56	0.52
1:T:173:LEU:HD22	1:T:255:LEU:HD12	1.91	0.52
1:T:85:PHE:HD1	1:T:99:ASP:CB	2.22	0.52
1:V:100:SER:O	1:V:100:SER:OG	2.23	0.52
1:U:528:TRP:HB3	1:V:246:PRO:HG3	45.68	0.52
1:U:417:LEU:HB2	1:V:338:TRP:CD1	71.51	0.52
1:V:339:GLN:HA	1:X:413:HIS:HA	1.92	0.52
1:W:173:LEU:HD22	1:W:255:LEU:HD12	1.91	0.52
1:X:492:ASP:O	1:Y:65:HIS:NE2	41.96	0.52
1:Y:173:LEU:HD22	1:Y:255:LEU:HD12	1.91	0.52
1:H:246:PRO:CG	1:Y:528:TRP:CB	2.65	0.52
1:Y:94:ARG:NH2	1:6:429:ARG:HH12	207.22	0.52
1:0:560:GLY:H	1:0:562:ALA:N	2.07	0.52
1:M:94:ARG:HH22	1:1:429:ARG:HH12	1.56	0.52
1:1:547:PRO:HA	1:1:553:PHE:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:492:ASP:O	1:2:65:HIS:NE2	2.41	0.52
1:2:85:PHE:CD1	1:2:99:ASP:CB	2.91	0.52
1:6:85:PHE:CD1	1:6:99:ASP:HB2	2.44	0.52
1:7:560:GLY:H	1:7:562:ALA:N	2.07	0.52
1:A:116:CYS:HB2	1:A:119:VAL:HG23	1.92	0.52
1:A:257:ARG:CG	1:B:37:SER:CB	2.71	0.52
1:A:65:HIS:NE2	1:U:492:ASP:O	177.92	0.52
1:C:391:ARG:HH22	1:E:309:ASN:HB2	127.25	0.52
1:C:417:LEU:HB2	1:1:338:TRP:CD1	2.44	0.52
1:C:560:GLY:H	1:C:562:ALA:N	2.07	0.52
1:E:101:TYR:CZ	1:E:236:GLY:HA3	2.44	0.52
1:E:391:ARG:HH22	1:F:309:ASN:HB2	1.75	0.52
1:H:338:TRP:CD1	1:Y:417:LEU:HB2	2.44	0.52
1:G:413:HIS:HA	1:H:339:GLN:HA	76.10	0.52
1:H:360:TRP:HZ3	1:W:220:ASP:OD1	1.92	0.52
1:H:492:ASP:O	1:Z:65:HIS:NE2	2.41	0.52
1:I:173:LEU:HD22	1:I:255:LEU:HD12	1.91	0.52
1:J:156:THR:O	1:J:163:THR:OG1	2.25	0.52
1:J:309:ASN:HB2	1:L:391:ARG:HH22	1.75	0.52
1:J:37:SER:HG	1:O:257:ARG:CG	1.98	0.52
1:M:100:SER:OG	1:M:100:SER:O	2.23	0.52
1:M:145:ILE:HD11	1:M:482:LEU:HD21	1.91	0.52
1:N:145:ILE:HD11	1:N:482:LEU:HD21	1.91	0.52
1:O:309:ASN:HB2	1:P:391:ARG:HH22	89.10	0.52
1:Q:94:ARG:HH22	1:S:429:ARG:HH12	103.16	0.52
1:R:101:TYR:CZ	1:R:236:GLY:HA3	2.44	0.52
1:R:246:PRO:HG3	1:U:528:TRP:HB3	1.86	0.52
1:R:528:TRP:HB3	1:S:246:PRO:HG3	1.85	0.52
1:R:220:ASP:OD1	1:U:360:TRP:HZ3	1.92	0.52
1:U:547:PRO:HA	1:U:553:PHE:HB3	1.91	0.52
1:V:309:ASN:HB2	1:4:391:ARG:HH22	1.74	0.52
1:V:560:GLY:H	1:V:562:ALA:N	2.07	0.52
1:W:85:PHE:CD1	1:W:99:ASP:CB	2.92	0.52
1:X:173:LEU:HD22	1:X:255:LEU:HD12	1.91	0.52
1:X:37:SER:HG	1:Y:257:ARG:CG	1.96	0.52
1:X:560:GLY:H	1:X:562:ALA:N	2.07	0.52
1:Y:246:PRO:HG3	1:6:528:TRP:HB3	155.02	0.52
1:Y:360:TRP:HZ3	1:Z:220:ASP:OD1	74.67	0.52
1:X:338:TRP:CD1	1:Z:417:LEU:HB2	115.89	0.52
1:X:94:ARG:HH22	1:Z:429:ARG:HH12	128.93	0.52
1:K:417:LEU:HB2	1:O:338:TRP:CD1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:309:ASN:HB2	1:O:391:ARG:HH22	1.74	0.52
1:C:309:ASN:HB2	1:1:391:ARG:HH22	1.74	0.52
1:5:85:PHE:HD1	1:5:99:ASP:CB	2.22	0.52
1:6:547:PRO:HA	1:6:553:PHE:HB3	1.91	0.52
1:Z:429:ARG:HH12	1:6:94:ARG:HH22	167.67	0.52
1:A:85:PHE:HD1	1:A:99:ASP:CB	2.22	0.52
1:B:116:CYS:HB2	1:B:119:VAL:HG23	1.92	0.52
1:B:547:PRO:HA	1:B:553:PHE:HB3	1.91	0.52
1:C:129:LEU:HD11	1:C:136:ILE:HD13	1.91	0.52
1:C:173:LEU:HD22	1:C:255:LEU:HD12	1.91	0.52
1:C:338:TRP:CD1	1:E:417:LEU:HB2	141.97	0.52
1:D:360:TRP:HZ3	1:N:220:ASP:OD1	1.92	0.52
1:D:94:ARG:NH2	1:P:429:ARG:HH12	2.08	0.52
1:C:339:GLN:HA	1:E:413:HIS:HA	135.90	0.52
1:G:417:LEU:HB2	1:H:338:TRP:CD1	71.52	0.52
1:G:560:GLY:H	1:G:562:ALA:N	2.07	0.52
1:A:316:ARG:HH22	1:G:98:ASN:HD22	1.57	0.52
1:H:145:ILE:HD11	1:H:482:LEU:HD21	1.91	0.52
1:I:85:PHE:HD1	1:I:99:ASP:CB	2.22	0.52
1:J:85:PHE:HD1	1:J:99:ASP:CB	2.22	0.52
1:K:129:LEU:HD11	1:K:136:ILE:HD13	1.91	0.52
1:K:173:LEU:HD22	1:K:255:LEU:HD12	1.91	0.52
1:K:339:GLN:HA	1:M:413:HIS:HA	132.09	0.52
1:L:413:HIS:HA	1:M:339:GLN:HA	94.75	0.52
1:K:65:HIS:NE2	1:L:492:ASP:O	2.42	0.52
1:L:417:LEU:HB2	1:M:338:TRP:CD1	98.68	0.52
1:N:560:GLY:H	1:N:562:ALA:N	2.07	0.52
1:O:37:SER:CB	1:P:257:ARG:CG	2.72	0.52
1:Q:116:CYS:HB2	1:Q:119:VAL:HG23	1.92	0.52
1:F:391:ARG:HH22	1:Q:309:ASN:HB2	1.75	0.52
1:Q:360:TRP:HZ3	1:R:220:ASP:OD1	74.67	0.52
1:Q:560:GLY:H	1:Q:562:ALA:N	2.07	0.52
1:Q:534:PRO:HD3	1:Q:563:MET:HE1	1.91	0.52
1:Q:94:ARG:NH2	1:S:429:ARG:HH12	102.38	0.52
1:R:244:PHE:HE2	1:R:246:PRO:HB3	1.63	0.52
1:R:145:ILE:HD11	1:R:482:LEU:HD21	1.91	0.52
1:S:360:TRP:HZ3	1:U:220:ASP:OD1	1.92	0.52
1:T:560:GLY:H	1:T:562:ALA:N	2.07	0.52
1:U:116:CYS:HB2	1:U:119:VAL:HG23	1.91	0.52
1:T:528:TRP:CG	1:U:246:PRO:HG3	35.71	0.52
1:U:429:ARG:HH12	1:V:94:ARG:NH2	78.04	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:417:LEU:HB2	1:Y:338:TRP:CD1	2.44	0.52
1:W:71:MET:HB2	1:W:75:ARG:NH2	2.23	0.52
1:X:246:PRO:HG3	1:Z:528:TRP:CG	72.96	0.52
1:X:145:ILE:HD11	1:X:482:LEU:HD21	1.91	0.52
1:X:65:HIS:NE2	1:Y:492:ASP:O	2.42	0.52
1:Y:59:HIS:HE1	1:Y:515:LYS:HZ1	1.67	0.52
1:K:316:ARG:HH22	1:O:98:ASN:HD22	1.58	0.52
1:C:528:TRP:CG	1:1:246:PRO:HG3	2.41	0.52
1:M:338:TRP:CD1	1:1:417:LEU:HB2	2.44	0.52
1:1:560:GLY:H	1:1:562:ALA:N	2.07	0.52
1:I:94:ARG:HH22	1:2:429:ARG:HH12	207.79	0.52
1:3:63:LEU:HD23	1:3:203:ALA:HB2	1.90	0.52
1:4:173:LEU:HD22	1:4:255:LEU:HD12	1.91	0.52
1:Z:413:HIS:HA	1:6:339:GLN:HA	148.85	0.52
1:K:391:ARG:HH22	1:7:309:ASN:HB2	1.74	0.52
1:A:547:PRO:HA	1:A:553:PHE:HB3	1.91	0.52
1:C:338:TRP:O	1:E:414:GLN:N	139.46	0.52
1:C:417:LEU:HB2	1:D:338:TRP:CD1	90.70	0.52
1:E:417:LEU:HB2	1:Q:338:TRP:CD1	2.44	0.52
1:J:173:LEU:HD22	1:J:255:LEU:HD12	1.91	0.52
1:K:37:SER:HG	1:L:257:ARG:CG	1.97	0.52
1:M:85:PHE:HD1	1:M:99:ASP:CB	2.22	0.52
1:N:116:CYS:HB2	1:N:119:VAL:HG23	1.92	0.52
1:G:94:ARG:NH2	1:O:429:ARG:HH12	214.56	0.52
1:P:156:THR:O	1:P:163:THR:OG1	2.25	0.52
1:N:528:TRP:HB3	1:P:246:PRO:HG3	1.85	0.52
1:D:339:GLN:HA	1:P:413:HIS:HA	1.92	0.52
1:P:560:GLY:H	1:P:562:ALA:N	2.07	0.52
1:O:429:ARG:HH12	1:P:94:ARG:NH2	82.36	0.52
1:Q:85:PHE:HD1	1:Q:99:ASP:CB	2.22	0.52
1:Q:528:TRP:HB3	1:R:246:PRO:HG3	45.69	0.52
1:R:560:GLY:H	1:R:562:ALA:N	2.07	0.52
1:F:429:ARG:HH12	1:T:94:ARG:HH22	167.68	0.52
1:X:98:ASN:HD22	1:4:316:ARG:HH22	1.58	0.52
1:X:246:PRO:CG	1:Z:528:TRP:CB	73.09	0.52
1:Z:85:PHE:HD1	1:Z:99:ASP:CB	2.22	0.52
1:O:145:ILE:HD11	1:O:482:LEU:HD21	1.91	0.52
1:Z:492:ASP:O	1:O:65:HIS:NE2	2.42	0.52
1:1:129:LEU:HD11	1:1:136:ILE:HD13	1.91	0.52
1:1:161:GLN:OE1	1:1:161:GLN:N	2.43	0.52
1:1:85:PHE:CD1	1:1:99:ASP:HB2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:173:LEU:HD22	1:5:255:LEU:HD12	1.91	0.52
1:5:263:GLU:HB2	1:5:264:SER:OG	2.10	0.52
1:5:145:ILE:HD11	1:5:482:LEU:HD21	1.91	0.52
1:5:560:GLY:H	1:5:562:ALA:N	2.07	0.52
1:5:85:PHE:CD1	1:5:99:ASP:HB2	2.44	0.52
1:6:116:CYS:HB2	1:6:119:VAL:HG23	1.92	0.52
1:Z:528:TRP:HB3	1:6:246:PRO:HG3	165.75	0.52
1:0:309:ASN:HB2	1:7:391:ARG:HH22	1.74	0.52
1:7:145:ILE:HD11	1:7:482:LEU:HD21	1.91	0.52
1:A:246:PRO:HG3	1:B:528:TRP:CG	35.72	0.52
1:A:528:TRP:CB	1:5:246:PRO:CG	159.04	0.52
1:C:161:GLN:OE1	1:C:161:GLN:N	2.43	0.52
1:C:246:PRO:HG3	1:E:528:TRP:CG	73.19	0.52
1:C:98:ASN:HD22	1:E:316:ARG:HH22	134.04	0.52
1:D:116:CYS:HB2	1:D:119:VAL:HG23	1.92	0.52
1:D:413:HIS:HA	1:N:339:GLN:HA	1.91	0.52
1:D:547:PRO:HA	1:D:553:PHE:HB3	1.91	0.52
1:D:528:TRP:CG	1:E:246:PRO:HG3	101.94	0.52
1:I:116:CYS:HB2	1:I:119:VAL:HG23	1.92	0.52
1:I:161:GLN:OE1	1:I:161:GLN:N	2.43	0.52
1:I:417:LEU:HB2	1:J:338:TRP:CD1	90.98	0.52
1:B:309:ASN:HB2	1:J:391:ARG:HH22	1.75	0.52
1:J:417:LEU:HB2	1:L:338:TRP:CD1	2.44	0.52
1:J:560:GLY:H	1:J:562:ALA:N	2.08	0.52
1:K:429:ARG:HH12	1:L:94:ARG:NH2	82.36	0.52
1:K:560:GLY:H	1:K:562:ALA:N	2.08	0.52
1:L:65:HIS:NE2	1:1:492:ASP:O	2.41	0.52
1:M:560:GLY:H	1:M:562:ALA:N	2.07	0.52
1:N:338:TRP:CD1	1:P:417:LEU:HB2	31.53	0.52
1:Q:339:GLN:HA	1:S:413:HIS:HA	91.77	0.52
1:R:116:CYS:HB2	1:R:119:VAL:HG23	1.92	0.52
1:S:413:HIS:HA	1:U:339:GLN:HA	1.91	0.52
1:T:116:CYS:HB2	1:T:119:VAL:HG23	1.92	0.52
1:W:560:GLY:H	1:W:562:ALA:N	2.07	0.52
1:X:85:PHE:HD1	1:X:99:ASP:CB	2.22	0.52
1:Y:244:PHE:HE2	1:Y:246:PRO:HB3	1.63	0.52
1:Z:360:TRP:HZ3	1:6:220:ASP:OD1	172.47	0.52
1:Z:66:ILE:HD12	1:Z:510:PHE:HE1	1.75	0.52
1:0:263:GLU:HB2	1:0:264:SER:OG	2.10	0.52
1:C:414:GLN:N	1:1:338:TRP:O	2.38	0.52
1:T:417:LEU:HB2	1:3:338:TRP:CD1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:94:ARG:NH2	1:3:429:ARG:HH12	165.76	0.52
1:4:129:LEU:HD11	1:4:136:ILE:HD13	1.91	0.52
1:4:161:GLN:OE1	1:4:161:GLN:N	2.43	0.52
1:6:263:GLU:HB2	1:6:264:SER:OG	2.10	0.52
1:6:66:ILE:HD12	1:6:510:PHE:HE1	1.75	0.52
1:7:263:GLU:HB2	1:7:264:SER:OG	2.10	0.52
1:B:161:GLN:OE1	1:B:161:GLN:N	2.43	0.52
1:B:66:ILE:HD12	1:B:510:PHE:HE1	1.75	0.52
1:D:161:GLN:N	1:D:161:GLN:OE1	2.43	0.52
1:D:560:GLY:H	1:D:562:ALA:N	2.07	0.52
1:C:429:ARG:HH12	1:D:94:ARG:NH2	102.37	0.52
1:D:85:PHE:HD1	1:D:99:ASP:CB	2.22	0.52
1:E:156:THR:O	1:E:163:THR:OG1	2.25	0.52
1:E:161:GLN:N	1:E:161:GLN:OE1	2.43	0.52
1:E:117:TRP:HA	1:E:454:ILE:HD11	1.92	0.52
1:F:117:TRP:HA	1:F:454:ILE:HD11	1.92	0.52
1:F:246:PRO:HG3	1:Q:528:TRP:HB3	1.85	0.52
1:E:94:ARG:NH2	1:F:429:ARG:HH12	2.08	0.52
1:H:246:PRO:HG3	1:Y:528:TRP:CG	2.41	0.52
1:H:85:PHE:HD1	1:H:99:ASP:CB	2.22	0.52
1:L:161:GLN:N	1:L:161:GLN:OE1	2.43	0.52
1:K:309:ASN:HB2	1:L:391:ARG:HH22	89.11	0.52
1:L:66:ILE:HD12	1:L:510:PHE:HE1	1.75	0.52
1:M:339:GLN:HA	1:I:413:HIS:HA	1.91	0.52
1:N:85:PHE:HD1	1:N:99:ASP:CB	2.22	0.52
1:H:413:HIS:HA	1:O:339:GLN:HA	219.23	0.52
1:O:117:TRP:HA	1:O:454:ILE:HD11	1.92	0.52
1:O:85:PHE:HD1	1:O:99:ASP:CB	2.22	0.52
1:P:117:TRP:HA	1:P:454:ILE:HD11	1.92	0.52
1:D:391:ARG:HH22	1:P:309:ASN:HB2	1.74	0.52
1:Q:129:LEU:HD11	1:Q:136:ILE:HD13	1.91	0.52
1:S:161:GLN:OE1	1:S:161:GLN:N	2.43	0.52
1:S:85:PHE:HD1	1:S:99:ASP:CB	2.22	0.52
1:T:161:GLN:N	1:T:161:GLN:OE1	2.43	0.52
1:T:391:ARG:HH22	1:V:309:ASN:HB2	75.79	0.52
1:U:161:GLN:OE1	1:U:161:GLN:N	2.43	0.52
1:T:528:TRP:HB3	1:U:246:PRO:HG3	35.58	0.52
1:A:37:SER:CB	1:U:257:ARG:CG	142.99	0.52
1:U:263:GLU:HB2	1:U:264:SER:OG	2.10	0.52
1:V:263:GLU:HB2	1:V:264:SER:OG	2.10	0.52
1:U:413:HIS:HA	1:V:339:GLN:HA	76.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:391:ARG:HH22	1:X:309:ASN:HB2	1.74	0.52
1:H:413:HIS:HA	1:W:339:GLN:HA	1.91	0.52
1:W:339:GLN:HA	1:X:413:HIS:HA	76.10	0.52
1:W:413:HIS:HA	1:Z:339:GLN:HA	75.85	0.52
1:W:417:LEU:HB2	1:Z:338:TRP:CD1	61.61	0.52
1:X:263:GLU:HB2	1:X:264:SER:OG	2.10	0.52
1:Y:66:ILE:HD12	1:Y:510:PHE:HE1	1.75	0.52
1:Z:101:TYR:CZ	1:Z:236:GLY:HA3	2.44	0.52
1:0:380:ASP:OD1	1:0:391:ARG:NH2	2.30	0.52
1:0:417:LEU:HB2	1:7:338:TRP:CD1	2.44	0.52
1:C:316:ARG:HH22	1:1:98:ASN:HD22	1.58	0.52
1:3:116:CYS:HB2	1:3:119:VAL:HG23	1.92	0.52
1:3:161:GLN:N	1:3:161:GLN:OE1	2.43	0.52
1:X:391:ARG:HH22	1:4:309:ASN:HB2	1.74	0.52
1:5:116:CYS:HB2	1:5:119:VAL:HG23	1.91	0.52
1:B:98:ASN:HD22	1:5:316:ARG:HH22	237.20	0.52
1:6:161:GLN:OE1	1:6:161:GLN:N	2.43	0.52
1:7:116:CYS:HB2	1:7:119:VAL:HG23	1.92	0.52
1:7:129:LEU:HD11	1:7:136:ILE:HD13	1.91	0.52
1:7:534:PRO:HD3	1:7:563:MET:HE1	1.92	0.52
1:A:220:ASP:OD1	1:I:360:TRP:HZ3	1.92	0.52
1:A:66:ILE:HD12	1:A:510:PHE:HE1	1.75	0.52
1:B:257:ARG:CG	1:4:37:SER:CB	164.87	0.52
1:C:413:HIS:HA	1:D:339:GLN:HA	91.77	0.52
1:C:85:PHE:HD1	1:C:99:ASP:CB	2.22	0.52
1:D:360:TRP:HZ3	1:E:220:ASP:OD1	106.19	0.52
1:D:413:HIS:HA	1:E:339:GLN:HA	91.77	0.52
1:D:417:LEU:HB2	1:E:338:TRP:CD1	90.71	0.52
1:E:145:ILE:HD11	1:E:482:LEU:HD21	1.91	0.52
1:A:528:TRP:CB	1:G:246:PRO:CG	2.62	0.52
1:I:66:ILE:HD12	1:I:510:PHE:HE1	1.75	0.52
1:J:116:CYS:HB2	1:J:119:VAL:HG23	1.91	0.52
1:J:161:GLN:OE1	1:J:161:GLN:N	2.43	0.52
1:J:263:GLU:HB2	1:J:264:SER:OG	2.10	0.52
1:J:429:ARG:HH12	1:2:94:ARG:NH2	145.52	0.52
1:K:161:GLN:N	1:K:161:GLN:OE1	2.43	0.52
1:J:413:HIS:HA	1:L:339:GLN:HA	1.91	0.52
1:B:94:ARG:NH2	1:L:429:ARG:HH12	2.08	0.52
1:M:116:CYS:HB2	1:M:119:VAL:HG23	1.92	0.52
1:M:101:TYR:CZ	1:M:236:GLY:HA3	2.44	0.52
1:C:220:ASP:OD1	1:M:360:TRP:HZ3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:94:ARG:NH2	1:1:429:ARG:HH12	2.08	0.52
1:N:66:ILE:HD12	1:N:510:PHE:HE1	1.75	0.52
1:O:161:GLN:OE1	1:O:161:GLN:N	2.43	0.52
1:O:37:SER:HG	1:P:257:ARG:CG	1.97	0.52
1:P:161:GLN:OE1	1:P:161:GLN:N	2.43	0.52
1:Q:161:GLN:OE1	1:Q:161:GLN:N	2.43	0.52
1:Q:66:ILE:HD12	1:Q:510:PHE:HE1	1.75	0.52
1:R:413:HIS:HA	1:S:339:GLN:HA	1.91	0.52
1:T:66:ILE:HD12	1:T:510:PHE:HE1	1.75	0.52
1:U:66:ILE:HD12	1:U:510:PHE:HE1	1.75	0.52
1:V:338:TRP:CD1	1:X:417:LEU:HB2	2.44	0.52
1:V:85:PHE:HD1	1:V:99:ASP:CB	2.22	0.52
1:V:37:SER:CB	1:W:257:ARG:CG	24.59	0.52
1:W:263:GLU:HB2	1:W:264:SER:OG	2.10	0.52
1:W:66:ILE:HD12	1:W:510:PHE:HE1	1.75	0.52
1:Y:116:CYS:HB2	1:Y:119:VAL:HG23	1.92	0.52
1:Y:161:GLN:N	1:Y:161:GLN:OE1	2.43	0.52
1:W:413:HIS:HA	1:Y:339:GLN:HA	1.91	0.52
1:W:429:ARG:HH12	1:Y:94:ARG:NH2	2.08	0.52
1:Z:116:CYS:HB2	1:Z:119:VAL:HG23	1.91	0.52
1:Z:161:GLN:N	1:Z:161:GLN:OE1	2.43	0.52
1:W:316:ARG:HH22	1:Z:98:ASN:HD22	72.04	0.52
1:1:244:PHE:O	1:1:246:PRO:CD	2.56	0.52
1:3:173:LEU:HD22	1:3:255:LEU:HD12	1.91	0.52
1:T:309:ASN:HB2	1:3:391:ARG:HH22	1.74	0.52
1:7:344:THR:N	1:7:345:GLY:HA3	2.25	0.52
1:7:85:PHE:HD1	1:7:99:ASP:CB	2.22	0.52
1:A:161:GLN:N	1:A:161:GLN:OE1	2.43	0.52
1:A:145:ILE:HD11	1:A:482:LEU:HD21	1.91	0.52
1:B:173:LEU:HD22	1:B:255:LEU:HD12	1.91	0.52
1:D:263:GLU:HB2	1:D:264:SER:OG	2.10	0.52
1:D:316:ARG:HH22	1:N:98:ASN:HD22	1.58	0.52
1:G:263:GLU:HB2	1:G:264:SER:OG	2.10	0.52
1:H:116:CYS:HB2	1:H:119:VAL:HG23	1.92	0.52
1:H:101:TYR:CZ	1:H:236:GLY:HA3	2.44	0.52
1:G:309:ASN:HB2	1:I:391:ARG:HH22	1.74	0.52
1:I:117:TRP:HA	1:I:454:ILE:HD11	1.92	0.52
1:I:309:ASN:HB2	1:J:391:ARG:HH22	89.11	0.52
1:K:225:ASP:HB2	1:K:226:ARG:CB	2.36	0.52
1:M:161:GLN:OE1	1:M:161:GLN:N	2.43	0.52
1:G:37:SER:CA	1:M:257:ARG:HG2	158.05	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:101:TYR:CZ	1:N:236:GLY:HA3	2.44	0.52
1:D:528:TRP:HB3	1:N:246:PRO:HG3	1.85	0.52
1:N:339:GLN:HA	1:P:413:HIS:HA	20.49	0.52
1:N:413:HIS:HA	1:P:339:GLN:HA	1.92	0.52
1:N:429:ARG:HH12	1:P:94:ARG:NH2	2.08	0.52
1:Q:263:GLU:HB2	1:Q:264:SER:OG	2.10	0.52
1:E:413:HIS:HA	1:Q:339:GLN:HA	1.91	0.52
1:Q:413:HIS:HA	1:R:339:GLN:HA	76.10	0.52
1:Q:117:TRP:HA	1:Q:454:ILE:HD11	1.92	0.52
1:R:161:GLN:N	1:R:161:GLN:OE1	2.43	0.52
1:Q:316:ARG:HH22	1:R:98:ASN:HD22	64.24	0.52
1:Q:37:SER:CB	1:S:257:ARG:CG	2.72	0.52
1:Q:391:ARG:HH22	1:S:309:ASN:HB2	97.24	0.52
1:T:117:TRP:HA	1:T:454:ILE:HD11	1.92	0.52
1:U:101:TYR:CZ	1:U:236:GLY:HA3	2.44	0.52
1:V:37:SER:HG	1:W:257:ARG:CG	24.75	0.52
1:U:309:ASN:HB2	1:V:391:ARG:HH22	46.34	0.52
1:V:534:PRO:HD3	1:V:563:MET:HE1	1.92	0.52
1:W:36:HIS:CE1	1:7:33:GLY:C	149.58	0.52
1:Y:344:THR:N	1:Y:345:GLY:HA3	2.25	0.52
1:W:316:ARG:HH22	1:Y:98:ASN:HD22	1.58	0.52
1:Y:528:TRP:HB3	1:Z:246:PRO:HG3	45.68	0.52
1:N:37:SER:CB	1:Z:257:ARG:CG	163.09	0.52
1:Z:344:THR:N	1:Z:345:GLY:HA3	2.25	0.52
1:0:116:CYS:HB2	1:0:119:VAL:HG23	1.91	0.52
1:5:244:PHE:HE2	1:5:246:PRO:HB3	1.63	0.52
1:K:98:ASN:HD22	1:7:316:ARG:HH22	1.58	0.52
1:7:547:PRO:HA	1:7:553:PHE:HB3	1.91	0.52
1:B:316:ARG:HH22	1:J:98:ASN:HD22	1.58	0.52
1:B:344:THR:N	1:B:345:GLY:HA3	2.25	0.52
1:C:339:GLN:HA	1:M:413:HIS:HA	1.91	0.52
1:D:117:TRP:HA	1:D:454:ILE:HD11	1.92	0.52
1:E:85:PHE:HD1	1:E:99:ASP:CB	2.22	0.52
1:F:98:ASN:HA	1:Q:323:SER:HG	1.71	0.52
1:A:414:GLN:N	1:G:338:TRP:O	2.39	0.52
1:G:85:PHE:HD1	1:G:99:ASP:CB	2.22	0.52
1:H:263:GLU:HB2	1:H:264:SER:OG	2.10	0.52
1:H:94:ARG:NH2	1:Y:429:ARG:HH12	2.08	0.52
1:K:85:PHE:HD1	1:K:99:ASP:CB	2.22	0.52
1:K:316:ARG:HH22	1:L:98:ASN:HD22	82.22	0.52
1:M:263:GLU:HB2	1:M:264:SER:OG	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:338:TRP:CD1	1:M:417:LEU:HB2	2.44	0.52
1:N:281:GLN:HG2	1:N:567:THR:HB	1.93	0.52
1:O:257:ARG:CG	1:Y:37:SER:CB	163.09	0.52
1:P:85:PHE:HD1	1:P:99:ASP:CB	2.22	0.52
1:Q:281:GLN:HG2	1:Q:567:THR:HB	1.92	0.52
1:Q:309:ASN:HB2	1:R:391:ARG:HH22	46.35	0.52
1:S:129:LEU:HD11	1:S:136:ILE:HD13	1.91	0.52
1:R:429:ARG:HH12	1:S:94:ARG:NH2	2.08	0.52
1:W:161:GLN:N	1:W:161:GLN:OE1	2.43	0.52
1:W:429:ARG:HH12	1:Z:94:ARG:NH2	85.93	0.52
1:O:244:PHE:O	1:O:246:PRO:CD	2.56	0.51
1:O:281:GLN:HG2	1:O:567:THR:HB	1.93	0.51
1:O:344:THR:N	1:O:345:GLY:HA3	2.25	0.51
1:O:85:PHE:HD1	1:O:99:ASP:CB	2.22	0.51
1:1:116:CYS:HB2	1:1:119:VAL:HG23	1.92	0.51
1:2:161:GLN:OE1	1:2:161:GLN:N	2.43	0.51
1:X:339:GLN:HA	1:4:413:HIS:HA	1.91	0.51
1:5:66:ILE:HD12	1:5:510:PHE:HE1	1.75	0.51
1:A:101:TYR:CZ	1:A:236:GLY:HA3	2.44	0.51
1:A:344:THR:N	1:A:345:GLY:HA3	2.25	0.51
1:B:360:TRP:HZ3	1:J:220:ASP:OD1	1.92	0.51
1:B:98:ASN:HD22	1:L:316:ARG:HH22	1.58	0.51
1:C:244:PHE:O	1:C:246:PRO:CD	2.56	0.51
1:E:309:ASN:HB2	1:Q:391:ARG:HH22	1.75	0.51
1:F:246:PRO:CG	1:3:528:TRP:CB	131.05	0.51
1:F:257:ARG:CG	1:R:37:SER:CB	2.72	0.51
1:G:391:ARG:HH22	1:O:309:ASN:HB2	196.60	0.51
1:G:98:ASN:HD22	1:O:316:ARG:HH22	204.94	0.51
1:H:117:TRP:HA	1:H:454:ILE:HD11	1.92	0.51
1:H:257:ARG:HG2	1:L:37:SER:CA	104.99	0.51
1:H:281:GLN:HG2	1:H:567:THR:HB	1.93	0.51
1:I:339:GLN:HA	1:2:413:HIS:HA	192.55	0.51
1:A:469:ALA:CB	1:I:439:TYR:CE1	2.86	0.51
1:I:413:HIS:HA	1:J:339:GLN:HA	81.48	0.51
1:K:492:ASP:O	1:6:65:HIS:NE2	2.41	0.51
1:K:547:PRO:HA	1:K:553:PHE:HB3	1.91	0.51
1:L:263:GLU:HB2	1:L:264:SER:OG	2.10	0.51
1:M:65:HIS:NE2	1:2:492:ASP:O	41.96	0.51
1:N:161:GLN:OE1	1:N:161:GLN:N	2.43	0.51
1:N:173:LEU:HD22	1:N:255:LEU:HD12	1.91	0.51
1:D:417:LEU:HB2	1:N:338:TRP:CD1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:309:ASN:HB2	1:N:391:ARG:HH22	1.74	0.51
1:N:528:TRP:HB3	1:O:246:PRO:HG3	45.69	0.51
1:G:339:GLN:HA	1:O:413:HIS:HA	200.25	0.51
1:N:309:ASN:HB2	1:P:391:ARG:HH22	1.74	0.51
1:R:338:TRP:O	1:U:414:GLN:N	2.37	0.51
1:S:153:VAL:HB	1:S:505:VAL:HG23	1.93	0.51
1:S:528:TRP:HB3	1:U:246:PRO:HG3	1.85	0.51
1:U:65:HIS:NE2	1:4:492:ASP:O	2.41	0.51
1:S:429:ARG:HH12	1:U:94:ARG:NH2	2.08	0.51
1:T:429:ARG:HH12	1:U:94:ARG:NH2	82.37	0.51
1:V:161:GLN:OE1	1:V:161:GLN:N	2.43	0.51
1:V:316:ARG:HH22	1:4:98:ASN:HD22	1.58	0.51
1:W:246:PRO:HG3	1:X:528:TRP:CG	43.77	0.51
1:G:37:SER:CA	1:W:257:ARG:HG2	2.32	0.51
1:X:116:CYS:HB2	1:X:119:VAL:HG23	1.92	0.51
1:X:281:GLN:HG2	1:X:567:THR:HB	1.93	0.51
1:X:344:THR:N	1:X:345:GLY:HA3	2.25	0.51
1:X:94:ARG:NH2	1:Z:429:ARG:HH12	128.15	0.51
1:Y:98:ASN:HD22	1:6:316:ARG:HH22	186.27	0.51
1:Z:263:GLU:HB2	1:Z:264:SER:OG	2.10	0.51
1:Z:153:VAL:HB	1:Z:505:VAL:HG23	1.93	0.51
1:M:98:ASN:HD22	1:1:316:ARG:HH22	1.58	0.51
1:J:316:ARG:HH22	1:2:98:ASN:HD22	127.18	0.51
1:T:316:ARG:HH22	1:3:98:ASN:HD22	1.58	0.51
1:5:129:LEU:HD11	1:5:136:ILE:HD13	1.91	0.51
1:5:161:GLN:OE1	1:5:161:GLN:N	2.43	0.51
1:Z:429:ARG:HH12	1:6:94:ARG:NH2	167.25	0.51
1:C:116:CYS:HB2	1:C:119:VAL:HG23	1.92	0.51
1:D:66:ILE:HD12	1:D:510:PHE:HE1	1.75	0.51
1:C:316:ARG:HH22	1:D:98:ASN:HD22	99.99	0.51
1:E:66:ILE:HD12	1:E:510:PHE:HE1	1.75	0.51
1:D:323:SER:HG	1:E:98:ASN:HA	100.02	0.51
1:E:98:ASN:HD22	1:F:316:ARG:HH22	1.58	0.51
1:F:116:CYS:HB2	1:F:119:VAL:HG23	1.92	0.51
1:F:413:HIS:HA	1:T:339:GLN:HA	148.85	0.51
1:G:161:GLN:N	1:G:161:GLN:OE1	2.43	0.51
1:G:153:VAL:HB	1:G:505:VAL:HG23	1.93	0.51
1:J:66:ILE:HD12	1:J:510:PHE:HE1	1.75	0.51
1:I:316:ARG:HH22	1:J:98:ASN:HD22	82.22	0.51
1:K:263:GLU:HB2	1:K:264:SER:OG	2.10	0.51
1:L:156:THR:O	1:L:163:THR:OG1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:153:VAL:HB	1:N:505:VAL:HG23	1.93	0.51
1:N:117:TRP:HA	1:N:454:ILE:HD11	1.92	0.51
1:O:225:ASP:HB2	1:O:226:ARG:CB	2.36	0.51
1:N:391:ARG:HH22	1:P:309:ASN:HB2	62.19	0.51
1:Q:173:LEU:HD22	1:Q:255:LEU:HD12	1.91	0.51
1:Q:417:LEU:HB2	1:R:338:TRP:CD1	71.52	0.51
1:Q:153:VAL:HB	1:Q:505:VAL:HG23	1.93	0.51
1:R:316:ARG:HH22	1:S:98:ASN:HD22	1.58	0.51
1:R:344:THR:N	1:R:345:GLY:HA3	2.26	0.51
1:S:244:PHE:O	1:S:246:PRO:CD	2.56	0.51
1:U:85:PHE:HD1	1:U:99:ASP:CB	2.22	0.51
1:V:153:VAL:HB	1:V:505:VAL:HG23	1.93	0.51
1:G:37:SER:CB	1:W:257:ARG:CG	2.73	0.51
1:W:153:VAL:HB	1:W:505:VAL:HG23	1.93	0.51
1:X:117:TRP:HA	1:X:454:ILE:HD11	1.92	0.51
1:X:94:ARG:NH2	1:4:429:ARG:HH12	2.08	0.51
1:W:414:GLN:N	1:Z:338:TRP:O	72.83	0.51
1:2:116:CYS:HB2	1:2:119:VAL:HG23	1.92	0.51
1:T:413:HIS:HA	1:3:339:GLN:HA	1.92	0.51
1:3:534:PRO:HD3	1:3:563:MET:HE1	1.92	0.51
1:3:281:GLN:HG2	1:3:567:THR:HB	1.93	0.51
1:T:323:SER:HG	1:3:98:ASN:HA	1.72	0.51
1:4:101:TYR:CZ	1:4:236:GLY:HA3	2.44	0.51
1:4:263:GLU:HB2	1:4:264:SER:OG	2.10	0.51
1:4:281:GLN:HG2	1:4:567:THR:HB	1.93	0.51
1:4:547:PRO:HA	1:4:553:PHE:HB3	1.91	0.51
1:6:117:TRP:HA	1:6:454:ILE:HD11	1.92	0.51
1:K:94:ARG:NH2	1:7:429:ARG:HH12	2.08	0.51
1:A:309:ASN:HB2	1:5:391:ARG:HH22	146.86	0.51
1:B:124:ALA:HB2	1:E:529:ASN:O	102.33	0.51
1:D:344:THR:N	1:D:345:GLY:HA3	2.25	0.51
1:F:161:GLN:OE1	1:F:161:GLN:N	2.43	0.51
1:F:98:ASN:HD22	1:3:316:ARG:HH22	167.62	0.51
1:G:344:THR:N	1:G:345:GLY:HA3	2.25	0.51
1:H:344:THR:N	1:H:345:GLY:HA3	2.25	0.51
1:H:560:GLY:H	1:H:562:ALA:N	2.07	0.51
1:I:94:ARG:NH2	1:2:429:ARG:HH12	207.22	0.51
1:J:281:GLN:HG2	1:J:567:THR:HB	1.93	0.51
1:J:344:THR:N	1:J:345:GLY:HA3	2.25	0.51
1:K:101:TYR:CZ	1:K:236:GLY:HA3	2.44	0.51
1:K:281:GLN:HG2	1:K:567:THR:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:413:HIS:HA	1:O:339:GLN:HA	1.92	0.51
1:K:413:HIS:HA	1:L:339:GLN:HA	81.47	0.51
1:L:116:CYS:HB2	1:L:119:VAL:HG23	1.91	0.51
1:M:281:GLN:HG2	1:M:567:THR:HB	1.93	0.51
1:C:98:ASN:HD22	1:M:316:ARG:HH22	1.58	0.51
1:M:344:THR:N	1:M:345:GLY:HA3	2.25	0.51
1:M:117:TRP:HA	1:M:454:ILE:HD11	1.92	0.51
1:L:429:ARG:HH12	1:M:94:ARG:NH2	101.81	0.51
1:O:116:CYS:HB2	1:O:119:VAL:HG23	1.92	0.51
1:O:316:ARG:HH22	1:P:98:ASN:HD22	82.21	0.51
1:O:332:GLY:HA2	1:O:353:GLN:NE2	2.26	0.51
1:P:66:ILE:HD12	1:P:510:PHE:HE1	1.75	0.51
1:R:263:GLU:HB2	1:R:264:SER:OG	2.10	0.51
1:R:66:ILE:HD12	1:R:510:PHE:HE1	1.75	0.51
1:S:263:GLU:HB2	1:S:264:SER:OG	2.10	0.51
1:U:117:TRP:HA	1:U:454:ILE:HD11	1.92	0.51
1:R:98:ASN:HD22	1:U:316:ARG:HH22	1.58	0.51
1:T:417:LEU:HB2	1:U:338:TRP:CD1	90.98	0.51
1:U:344:THR:N	1:U:345:GLY:HA3	2.25	0.51
1:V:344:THR:N	1:V:345:GLY:HA3	2.25	0.51
1:W:117:TRP:HA	1:W:454:ILE:HD11	1.92	0.51
1:X:98:ASN:HA	1:Z:323:SER:HG	99.88	0.51
1:Y:263:GLU:HB2	1:Y:264:SER:OG	2.10	0.51
1:O:173:LEU:HD22	1:O:255:LEU:HD12	1.91	0.51
1:1:66:ILE:HD12	1:1:510:PHE:HE1	1.75	0.51
1:2:173:LEU:HD22	1:2:255:LEU:HD12	1.91	0.51
1:2:263:GLU:HB2	1:2:264:SER:OG	2.10	0.51
1:3:344:THR:N	1:3:345:GLY:HA3	2.25	0.51
1:F:469:ALA:CB	1:3:439:TYR:CE1	139.79	0.51
1:4:380:ASP:OD1	1:4:391:ARG:NH2	2.30	0.51
1:6:101:TYR:CZ	1:6:236:GLY:HA3	2.44	0.51
1:6:244:PHE:HE2	1:6:246:PRO:HB3	1.63	0.51
1:A:263:GLU:HB2	1:A:264:SER:OG	2.10	0.51
1:A:316:ARG:HH22	1:5:98:ASN:HD22	177.20	0.51
1:A:338:TRP:CD1	1:I:417:LEU:HB2	2.44	0.51
1:A:360:TRP:HZ3	1:5:220:ASP:OD1	201.21	0.51
1:B:263:GLU:HB2	1:B:264:SER:OG	2.10	0.51
1:B:339:GLN:HA	1:L:413:HIS:HA	1.92	0.51
1:C:59:HIS:HE1	1:C:515:LYS:NZ	2.09	0.51
1:E:263:GLU:HB2	1:E:264:SER:OG	2.10	0.51
1:F:281:GLN:HG2	1:F:567:THR:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:339:GLN:HA	1:3:413:HIS:HA	152.44	0.51
1:G:66:ILE:HD12	1:G:510:PHE:HE1	1.75	0.51
1:K:100:SER:O	1:K:100:SER:OG	2.23	0.51
1:K:429:ARG:HH12	1:0:94:ARG:NH2	2.08	0.51
1:M:66:ILE:HD12	1:M:510:PHE:HE1	1.75	0.51
1:N:263:GLU:HB2	1:N:264:SER:OG	2.10	0.51
1:Q:429:ARG:HH12	1:R:94:ARG:NH2	78.05	0.51
1:R:309:ASN:HB2	1:S:391:ARG:HH22	1.74	0.51
1:T:263:GLU:HB2	1:T:264:SER:OG	2.10	0.51
1:T:339:GLN:HA	1:V:413:HIS:HA	123.00	0.51
1:T:439:TYR:CE1	1:U:469:ALA:CB	78.45	0.51
1:W:309:ASN:HB2	1:Z:391:ARG:HH22	63.56	0.51
1:V:33:GLY:C	1:W:36:HIS:CE1	2.45	0.51
1:X:161:GLN:N	1:X:161:GLN:OE1	2.43	0.51
1:X:66:ILE:HD12	1:X:510:PHE:HE1	1.75	0.51
1:Y:338:TRP:O	1:6:414:GLN:N	193.43	0.51
1:Z:309:ASN:HB2	1:6:391:ARG:HH22	158.07	0.51
1:Y:429:ARG:HH12	1:Z:94:ARG:NH2	78.05	0.51
1:1:59:HIS:HE1	1:1:515:LYS:NZ	2.09	0.51
1:3:547:PRO:HA	1:3:553:PHE:HB3	1.91	0.51
1:4:59:HIS:HE1	1:4:515:LYS:NZ	2.09	0.51
1:4:85:PHE:HD1	1:4:99:ASP:CB	2.22	0.51
1:V:429:ARG:HH12	1:4:94:ARG:NH2	2.08	0.51
1:A:528:TRP:HB3	1:5:246:PRO:HG3	160.29	0.51
1:5:547:PRO:HA	1:5:553:PHE:HB3	1.91	0.51
1:Z:417:LEU:HB2	1:6:338:TRP:CD1	145.28	0.51
1:6:59:HIS:HE1	1:6:515:LYS:NZ	2.09	0.51
1:6:85:PHE:HD1	1:6:99:ASP:CB	2.22	0.51
1:A:339:GLN:HA	1:I:413:HIS:HA	1.91	0.51
1:A:429:ARG:NH2	1:5:228:ASN:OD1	209.40	0.51
1:C:66:ILE:HD12	1:C:510:PHE:HE1	1.75	0.51
1:D:153:VAL:HB	1:D:505:VAL:HG23	1.93	0.51
1:F:263:GLU:HB2	1:F:264:SER:OG	2.10	0.51
1:F:332:GLY:HA2	1:F:353:GLN:NE2	2.26	0.51
1:G:364:VAL:HG21	1:G:539:ARG:HD3	1.93	0.51
1:H:161:GLN:OE1	1:H:161:GLN:N	2.43	0.51
1:H:66:ILE:HD12	1:H:510:PHE:HE1	1.75	0.51
1:I:65:HIS:NE2	1:J:492:ASP:O	2.41	0.51
1:J:547:PRO:HA	1:J:553:PHE:HB3	1.91	0.51
1:K:116:CYS:HB2	1:K:119:VAL:HG23	1.92	0.51
1:K:59:HIS:HE1	1:K:515:LYS:NZ	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:344:THR:N	1:L:345:GLY:HA3	2.25	0.51
1:L:364:VAL:HG21	1:L:539:ARG:HD3	1.93	0.51
1:N:37:SER:HG	1:Z:257:ARG:N	166.90	0.51
1:P:59:HIS:HE1	1:P:515:LYS:NZ	2.09	0.51
1:N:316:ARG:HH22	1:P:98:ASN:HD22	1.58	0.51
1:S:117:TRP:HA	1:S:454:ILE:HD11	1.92	0.51
1:S:364:VAL:HG21	1:S:539:ARG:HD3	1.93	0.51
1:F:429:ARG:HH12	1:T:94:ARG:NH2	167.26	0.51
1:S:417:LEU:HB2	1:U:338:TRP:CD1	2.44	0.51
1:S:309:ASN:HB2	1:U:391:ARG:HH22	1.75	0.51
1:U:59:HIS:HE1	1:U:515:LYS:NZ	2.09	0.51
1:R:492:ASP:O	1:V:65:HIS:NE2	2.42	0.51
1:W:116:CYS:HB2	1:W:119:VAL:HG23	1.92	0.51
1:W:309:ASN:HB2	1:Y:391:ARG:HH22	1.75	0.51
1:W:344:THR:N	1:W:345:GLY:HA3	2.25	0.51
1:W:439:TYR:CE1	1:Y:469:ALA:CB	2.86	0.51
1:W:281:GLN:HG2	1:W:567:THR:HB	1.93	0.51
1:W:338:TRP:CD1	1:X:417:LEU:HB2	71.52	0.51
1:Y:281:GLN:HG2	1:Y:567:THR:HB	1.93	0.51
1:Y:309:ASN:HB2	1:Z:391:ARG:HH22	46.35	0.51
1:W:414:GLN:N	1:Y:338:TRP:O	2.37	0.51
1:Y:492:ASP:O	1:7:65:HIS:NE2	142.48	0.51
1:Z:117:TRP:HA	1:Z:454:ILE:HD11	1.92	0.51
1:Y:316:ARG:HH22	1:Z:98:ASN:HD22	64.24	0.51
1:0:161:GLN:OE1	1:0:161:GLN:N	2.43	0.51
1:0:547:PRO:HA	1:0:553:PHE:HB3	1.91	0.51
1:0:66:ILE:HD12	1:0:510:PHE:HE1	1.75	0.51
1:1:85:PHE:HD1	1:1:99:ASP:CB	2.22	0.51
1:J:413:HIS:HA	1:2:339:GLN:HA	132.65	0.51
1:J:309:ASN:HB2	1:2:391:ARG:HH22	107.48	0.51
1:2:153:VAL:HB	1:2:505:VAL:HG23	1.93	0.51
1:3:59:HIS:HE1	1:3:515:LYS:NZ	2.09	0.51
1:3:85:PHE:HD1	1:3:99:ASP:CB	2.22	0.51
1:4:101:TYR:CD2	1:4:101:TYR:C	2.84	0.51
1:5:281:GLN:HG2	1:5:567:THR:HB	1.93	0.51
1:A:246:PRO:HG3	1:I:528:TRP:CG	2.42	0.51
1:A:391:ARG:HH22	1:B:309:ASN:HB2	89.12	0.51
1:C:263:GLU:HB2	1:C:264:SER:OG	2.10	0.51
1:C:364:VAL:HG21	1:C:539:ARG:HD3	1.93	0.51
1:D:267:TYR:OH	1:D:477:GLY:O	2.29	0.51
1:E:257:ARG:CG	1:Q:37:SER:CB	89.20	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:316:ARG:HH22	1:E:98:ASN:HD22	99.99	0.51
1:F:153:VAL:HB	1:F:505:VAL:HG23	1.93	0.51
1:G:309:ASN:HB2	1:H:391:ARG:HH22	46.35	0.51
1:H:429:ARG:HH12	1:W:94:ARG:NH2	2.08	0.51
1:G:429:ARG:HH12	1:H:94:ARG:NH2	78.05	0.51
1:I:263:GLU:HB2	1:I:264:SER:OG	2.10	0.51
1:G:413:HIS:HA	1:I:339:GLN:HA	1.91	0.51
1:B:528:TRP:CB	1:J:246:PRO:CG	2.65	0.51
1:B:528:TRP:HB3	1:J:246:PRO:HG3	1.85	0.51
1:B:417:LEU:HB2	1:J:338:TRP:CD1	2.44	0.51
1:J:439:TYR:CE1	1:2:469:ALA:CB	110.71	0.51
1:K:117:TRP:HA	1:K:454:ILE:HD11	1.92	0.51
1:K:94:ARG:NH2	1:M:429:ARG:HH12	145.67	0.51
1:B:391:ARG:HH22	1:L:309:ASN:HB2	1.74	0.51
1:M:267:TYR:OH	1:M:477:GLY:O	2.29	0.51
1:M:37:SER:HG	1:N:257:ARG:CG	1.98	0.51
1:D:429:ARG:HH12	1:N:94:ARG:NH2	2.08	0.51
1:O:66:ILE:HD12	1:O:510:PHE:HE1	1.75	0.51
1:O:281:GLN:HG2	1:O:567:THR:HB	1.93	0.51
1:Q:59:HIS:HE1	1:Q:515:LYS:NZ	2.09	0.51
1:R:281:GLN:HG2	1:R:567:THR:HB	1.92	0.51
1:K:37:SER:CB	1:S:257:ARG:CG	159.11	0.51
1:S:59:HIS:HE1	1:S:515:LYS:NZ	2.09	0.51
1:V:281:GLN:HG2	1:V:567:THR:HB	1.93	0.51
1:V:37:SER:CA	1:W:257:ARG:HG2	24.05	0.51
1:V:246:PRO:CG	1:X:528:TRP:CB	2.65	0.51
1:Y:267:TYR:OH	1:Y:477:GLY:O	2.29	0.51
1:0:267:TYR:OH	1:0:477:GLY:O	2.29	0.51
1:0:332:GLY:HA2	1:0:353:GLN:NE2	2.26	0.51
1:1:267:TYR:OH	1:1:477:GLY:O	2.29	0.51
1:1:469:ALA:CB	1:2:439:TYR:CE1	166.37	0.51
1:5:364:VAL:HG21	1:5:539:ARG:HD3	1.93	0.51
1:6:214:ASP:OD2	1:6:238:GLN:HB3	2.11	0.51
1:6:281:GLN:HG2	1:6:567:THR:HB	1.93	0.51
1:7:161:GLN:OE1	1:7:161:GLN:N	2.43	0.51
1:7:267:TYR:OH	1:7:477:GLY:O	2.29	0.51
1:7:281:GLN:HG2	1:7:567:THR:HB	1.93	0.51
1:B:246:PRO:HG3	1:L:528:TRP:CG	2.41	0.51
1:C:246:PRO:HG3	1:M:528:TRP:HB3	1.86	0.51
1:C:267:TYR:OH	1:C:477:GLY:O	2.29	0.51
1:C:153:VAL:HB	1:C:505:VAL:HG23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:281:GLN:HG2	1:D:567:THR:HB	1.93	0.51
1:D:309:ASN:HB2	1:E:391:ARG:HH22	97.24	0.51
1:F:66:ILE:HD12	1:F:510:PHE:HE1	1.75	0.51
1:F:94:ARG:NH2	1:Q:429:ARG:HH12	2.08	0.51
1:G:281:GLN:HG2	1:G:567:THR:HB	1.92	0.51
1:A:308:ILE:N	1:G:391:ARG:HH12	2.08	0.51
1:I:364:VAL:HG21	1:I:539:ARG:HD3	1.93	0.51
1:J:59:HIS:HE1	1:J:515:LYS:NZ	2.09	0.51
1:K:101:TYR:C	1:K:101:TYR:CD2	2.84	0.51
1:L:117:TRP:HA	1:L:454:ILE:HD11	1.92	0.51
1:N:358:ALA:HB2	1:N:399:GLU:HG3	1.93	0.51
1:O:153:VAL:HB	1:O:505:VAL:HG23	1.93	0.51
1:H:429:ARG:HH12	1:O:94:ARG:NH2	235.68	0.51
1:N:429:ARG:HH12	1:O:94:ARG:NH2	78.04	0.51
1:E:429:ARG:HH12	1:Q:94:ARG:NH2	2.08	0.51
1:Q:323:SER:HG	1:R:98:ASN:HA	61.78	0.51
1:S:101:TYR:CD2	1:S:101:TYR:C	2.84	0.51
1:T:109:TRP:CD1	1:T:247:LEU:HD22	2.46	0.51
1:T:316:ARG:HH22	1:U:98:ASN:HD22	82.22	0.51
1:T:344:THR:N	1:T:345:GLY:HA3	2.25	0.51
1:U:281:GLN:HG2	1:U:567:THR:HB	1.93	0.51
1:V:94:ARG:NH2	1:X:429:ARG:HH12	2.08	0.51
1:W:244:PHE:O	1:W:246:PRO:CD	2.56	0.51
1:W:59:HIS:HE1	1:W:515:LYS:NZ	2.09	0.51
1:X:547:PRO:HA	1:X:553:PHE:HB3	1.91	0.51
1:Y:109:TRP:CD1	1:Y:247:LEU:HD22	2.46	0.51
1:Z:101:TYR:CD2	1:Z:101:TYR:C	2.84	0.51
1:O:429:ARG:HH12	1:7:94:ARG:NH2	2.08	0.51
1:1:153:VAL:HB	1:1:505:VAL:HG23	1.93	0.51
1:1:364:VAL:HG21	1:1:539:ARG:HD3	1.93	0.51
1:3:358:ALA:HB2	1:3:399:GLU:HG3	1.93	0.51
1:4:560:GLY:H	1:4:562:ALA:N	2.07	0.51
1:5:109:TRP:CD1	1:5:247:LEU:HD22	2.46	0.51
1:5:109:TRP:HZ3	1:5:485:LYS:HB3	1.67	0.51
1:6:364:VAL:HG21	1:6:539:ARG:HD3	1.93	0.51
1:A:117:TRP:HA	1:A:454:ILE:HD11	1.92	0.51
1:B:214:ASP:OD2	1:B:238:GLN:HB3	2.11	0.51
1:B:358:ALA:HB2	1:B:399:GLU:HG3	1.93	0.51
1:B:429:ARG:HH12	1:J:94:ARG:NH2	2.08	0.51
1:B:117:TRP:HA	1:B:454:ILE:HD11	1.92	0.51
1:C:344:THR:N	1:C:345:GLY:HA3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:528:TRP:HB3	1:E:246:PRO:HG3	101.38	0.51
1:F:391:ARG:HH22	1:3:309:ASN:HB2	171.26	0.51
1:F:439:TYR:CE1	1:T:469:ALA:CB	126.59	0.51
1:H:316:ARG:HH22	1:O:98:ASN:HD22	210.93	0.51
1:H:153:VAL:HB	1:H:505:VAL:HG23	1.93	0.51
1:I:225:ASP:HB2	1:I:226:ARG:CB	2.36	0.51
1:A:98:ASN:HD22	1:I:316:ARG:HH22	1.58	0.51
1:I:344:THR:N	1:I:345:GLY:HA3	2.25	0.51
1:J:358:ALA:HB2	1:J:399:GLU:HG3	1.93	0.51
1:J:153:VAL:HB	1:J:505:VAL:HG23	1.93	0.51
1:J:364:VAL:HG21	1:J:539:ARG:HD3	1.93	0.51
1:L:309:ASN:HB2	1:M:391:ARG:HH22	105.48	0.51
1:C:391:ARG:HH22	1:M:309:ASN:HB2	1.75	0.51
1:M:153:VAL:HB	1:M:505:VAL:HG23	1.93	0.51
1:N:344:THR:N	1:N:345:GLY:HA3	2.25	0.51
1:N:59:HIS:HE1	1:N:515:LYS:NZ	2.09	0.51
1:O:358:ALA:HB2	1:O:399:GLU:HG3	1.93	0.51
1:P:101:TYR:CD2	1:P:101:TYR:C	2.84	0.51
1:P:109:TRP:CD1	1:P:247:LEU:HD22	2.46	0.51
1:P:263:GLU:HB2	1:P:264:SER:OG	2.10	0.51
1:P:364:VAL:HG21	1:P:539:ARG:HD3	1.93	0.51
1:Q:344:THR:N	1:Q:345:GLY:HA3	2.25	0.51
1:R:117:TRP:HA	1:R:454:ILE:HD11	1.92	0.51
1:S:109:TRP:CD1	1:S:247:LEU:HD22	2.46	0.51
1:T:364:VAL:HG21	1:T:539:ARG:HD3	1.93	0.51
1:T:65:HIS:NE2	1:5:492:ASP:O	138.23	0.51
1:U:214:ASP:OD2	1:U:238:GLN:HB3	2.11	0.51
1:V:267:TYR:OH	1:V:477:GLY:O	2.29	0.51
1:H:417:LEU:HB2	1:W:338:TRP:CD1	2.44	0.51
1:X:267:TYR:OH	1:X:477:GLY:O	2.29	0.51
1:X:332:GLY:HA2	1:X:353:GLN:NE2	2.26	0.51
1:W:94:ARG:NH2	1:X:429:ARG:HH12	78.05	0.51
1:Y:156:THR:O	1:Y:163:THR:OG1	2.25	0.51
1:Z:109:TRP:CD1	1:Z:247:LEU:HD22	2.46	0.51
1:O:101:TYR:C	1:O:101:TYR:CD2	2.84	0.51
1:1:263:GLU:HB2	1:1:264:SER:OG	2.10	0.51
1:1:344:THR:N	1:1:345:GLY:HA3	2.25	0.51
1:C:323:SER:HG	1:1:98:ASN:HA	1.76	0.51
1:M:37:SER:HG	1:2:257:ARG:N	25.95	0.51
1:3:364:VAL:HG21	1:3:539:ARG:HD3	1.93	0.51
1:3:560:GLY:H	1:3:562:ALA:N	2.07	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:364:VAL:HG21	1:4:539:ARG:HD3	1.93	0.51
1:5:101:TYR:CD2	1:5:101:TYR:C	2.84	0.51
1:5:244:PHE:O	1:5:246:PRO:CD	2.56	0.51
1:A:101:TYR:C	1:A:101:TYR:CD2	2.84	0.51
1:B:101:TYR:C	1:B:101:TYR:CD2	2.84	0.51
1:B:281:GLN:HG2	1:B:567:THR:HB	1.93	0.51
1:C:101:TYR:CZ	1:C:236:GLY:HA3	2.44	0.51
1:C:429:ARG:HH12	1:1:94:ARG:NH2	2.08	0.51
1:C:439:TYR:CE1	1:1:469:ALA:CB	2.87	0.51
1:D:332:GLY:HA2	1:D:353:GLN:NE2	2.26	0.51
1:D:358:ALA:HB2	1:D:399:GLU:HG3	1.93	0.51
1:D:59:HIS:HE1	1:D:515:LYS:NZ	2.09	0.51
1:C:94:ARG:NH2	1:E:429:ARG:HH12	142.55	0.51
1:E:59:HIS:HE1	1:E:515:LYS:NZ	2.09	0.51
1:D:429:ARG:HH12	1:E:94:ARG:NH2	102.38	0.51
1:G:101:TYR:C	1:G:101:TYR:CD2	2.85	0.51
1:G:332:GLY:HA2	1:G:353:GLN:NE2	2.26	0.51
1:G:117:TRP:HA	1:G:454:ILE:HD11	1.92	0.51
1:I:109:TRP:CD1	1:I:247:LEU:HD22	2.46	0.51
1:H:37:SER:HG	1:I:257:ARG:N	2.09	0.51
1:A:94:ARG:NH2	1:I:429:ARG:HH12	2.08	0.51
1:I:153:VAL:HB	1:I:505:VAL:HG23	1.93	0.51
1:J:101:TYR:C	1:J:101:TYR:CD2	2.84	0.51
1:K:214:ASP:OD2	1:K:238:GLN:HB3	2.11	0.51
1:K:358:ALA:HB2	1:K:399:GLU:HG3	1.93	0.51
1:L:101:TYR:CD2	1:L:101:TYR:C	2.84	0.51
1:L:358:ALA:HB2	1:L:399:GLU:HG3	1.93	0.51
1:M:358:ALA:HB2	1:M:399:GLU:HG3	1.93	0.51
1:N:414:GLN:N	1:O:338:TRP:O	76.12	0.51
1:P:281:GLN:HG2	1:P:567:THR:HB	1.92	0.51
1:P:358:ALA:HB2	1:P:399:GLU:HG3	1.93	0.51
1:D:228:ASN:OD1	1:P:429:ARG:NH2	2.44	0.51
1:Q:332:GLY:HA2	1:Q:353:GLN:NE2	2.26	0.51
1:Q:358:ALA:HB2	1:Q:399:GLU:HG3	1.93	0.51
1:R:156:THR:O	1:R:163:THR:OG1	2.25	0.51
1:Q:228:ASN:OD1	1:S:429:ARG:NH2	105.88	0.51
1:F:316:ARG:HH22	1:T:98:ASN:HD22	162.02	0.51
1:T:528:TRP:CB	1:U:246:PRO:CG	35.84	0.51
1:T:413:HIS:HA	1:U:339:GLN:HA	81.48	0.51
1:U:364:VAL:HG21	1:U:539:ARG:HD3	1.93	0.51
1:V:332:GLY:HA2	1:V:353:GLN:NE2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:117:TRP:HA	1:V:454:ILE:HD11	1.92	0.51
1:W:358:ALA:HB2	1:W:399:GLU:HG3	1.93	0.51
1:X:101:TYR:C	1:X:101:TYR:CD2	2.84	0.51
1:X:492:ASP:OD1	1:X:493:VAL:N	2.44	0.51
1:X:59:HIS:HE1	1:X:515:LYS:NZ	2.09	0.51
1:Y:358:ALA:HB2	1:Y:399:GLU:HG3	1.93	0.51
1:Z:281:GLN:HG2	1:Z:567:THR:HB	1.92	0.51
1:0:101:TYR:CZ	1:0:236:GLY:HA3	2.44	0.51
1:0:358:ALA:HB2	1:0:399:GLU:HG3	1.93	0.51
1:0:492:ASP:OD1	1:0:493:VAL:N	2.44	0.51
1:0:59:HIS:HE1	1:0:515:LYS:NZ	2.09	0.51
1:1:281:GLN:HG2	1:1:567:THR:HB	1.93	0.51
1:2:358:ALA:HB2	1:2:399:GLU:HG3	1.93	0.51
1:3:109:TRP:CD1	1:3:247:LEU:HD22	2.46	0.51
1:3:153:VAL:HB	1:3:505:VAL:HG23	1.93	0.51
1:4:214:ASP:OD2	1:4:238:GLN:HB3	2.11	0.51
1:4:66:ILE:HD12	1:4:510:PHE:HE1	1.75	0.51
1:Y:391:ARG:HH22	1:6:309:ASN:HB2	160.30	0.51
1:0:429:ARG:NH2	1:7:228:ASN:OD1	2.44	0.51
1:7:66:ILE:HD12	1:7:510:PHE:HE1	1.75	0.51
1:A:214:ASP:OD2	1:A:238:GLN:HB3	2.11	0.51
1:A:246:PRO:HG3	1:I:528:TRP:HB3	1.86	0.51
1:A:417:LEU:HB2	1:5:338:TRP:CD1	176.73	0.51
1:B:246:PRO:HG3	1:L:528:TRP:HB3	1.86	0.51
1:C:257:ARG:CG	1:D:37:SER:CB	2.73	0.51
1:C:281:GLN:HG2	1:C:567:THR:HB	1.93	0.51
1:D:407:TRP:HE3	1:D:410:LYS:HG2	1.76	0.51
1:D:364:VAL:HG21	1:D:539:ARG:HD3	1.93	0.51
1:F:109:TRP:CD1	1:F:247:LEU:HD22	2.46	0.51
1:F:358:ALA:HB2	1:F:399:GLU:HG3	1.93	0.51
1:G:59:HIS:HE1	1:G:515:LYS:NZ	2.09	0.51
1:H:332:GLY:HA2	1:H:353:GLN:NE2	2.26	0.51
1:H:492:ASP:OD1	1:H:493:VAL:N	2.44	0.51
1:I:98:ASN:HD22	1:2:316:ARG:HH22	186.28	0.51
1:J:109:TRP:CD1	1:J:247:LEU:HD22	2.46	0.51
1:K:429:ARG:NH2	1:L:228:ASN:OD1	80.09	0.51
1:K:364:VAL:HG21	1:K:539:ARG:HD3	1.93	0.51
1:K:98:ASN:HD22	1:M:316:ARG:HH22	127.03	0.51
1:L:214:ASP:OD2	1:L:238:GLN:HB3	2.11	0.51
1:L:281:GLN:HG2	1:L:567:THR:HB	1.93	0.51
1:L:59:HIS:HE1	1:L:515:LYS:NZ	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:59:HIS:HE1	1:M:515:LYS:NZ	2.09	0.51
1:M:364:VAL:HG21	1:M:539:ARG:HD3	1.93	0.51
1:N:94:ARG:NH2	1:P:429:ARG:HH12	28.43	0.51
1:O:214:ASP:OD2	1:O:238:GLN:HB3	2.11	0.51
1:O:263:GLU:HB2	1:O:264:SER:OG	2.10	0.51
1:G:228:ASN:OD1	1:O:429:ARG:NH2	215.34	0.51
1:N:323:SER:HG	1:O:98:ASN:HA	61.81	0.51
1:N:228:ASN:OD1	1:P:429:ARG:NH2	25.87	0.51
1:E:429:ARG:NH2	1:Q:228:ASN:OD1	2.44	0.51
1:R:358:ALA:HB2	1:R:399:GLU:HG3	1.93	0.51
1:U:492:ASP:OD1	1:U:493:VAL:N	2.44	0.51
1:V:214:ASP:OD2	1:V:238:GLN:HB3	2.11	0.51
1:V:66:ILE:HD12	1:V:510:PHE:HE1	1.75	0.51
1:V:59:HIS:HE1	1:V:515:LYS:NZ	2.09	0.51
1:W:492:ASP:OD1	1:W:493:VAL:N	2.45	0.51
1:X:153:VAL:HB	1:X:505:VAL:HG23	1.93	0.51
1:X:101:TYR:CZ	1:X:236:GLY:HA3	2.44	0.51
1:W:391:ARG:HH22	1:X:309:ASN:HB2	46.35	0.51
1:X:338:TRP:O	1:4:414:GLN:N	2.38	0.51
1:X:358:ALA:HB2	1:X:399:GLU:HG3	1.93	0.51
1:Y:117:TRP:HA	1:Y:454:ILE:HD11	1.92	0.51
1:W:323:SER:HG	1:Z:98:ASN:HA	75.69	0.51
1:K:414:GLN:N	1:0:338:TRP:O	2.38	0.50
1:1:117:TRP:HA	1:1:454:ILE:HD11	1.92	0.50
1:1:156:THR:O	1:1:163:THR:OG1	2.25	0.50
1:1:101:TYR:CZ	1:1:236:GLY:HA3	2.44	0.50
1:1:492:ASP:OD1	1:1:493:VAL:N	2.44	0.50
1:2:214:ASP:OD2	1:2:238:GLN:HB3	2.11	0.50
1:2:109:TRP:CD1	1:2:247:LEU:HD22	2.46	0.50
1:2:344:THR:N	1:2:345:GLY:HA3	2.25	0.50
1:2:364:VAL:HG21	1:2:539:ARG:HD3	1.93	0.50
1:4:267:TYR:OH	1:4:477:GLY:O	2.29	0.50
1:5:358:ALA:HB2	1:5:399:GLU:HG3	1.93	0.50
1:6:492:ASP:OD1	1:6:493:VAL:N	2.45	0.50
1:7:332:GLY:HA2	1:7:353:GLN:NE2	2.26	0.50
1:A:246:PRO:CG	1:B:528:TRP:CB	35.85	0.50
1:A:364:VAL:HG21	1:A:539:ARG:HD3	1.93	0.50
1:B:371:GLN:HE22	1:5:415:SER:C	236.82	0.50
1:B:59:HIS:HE1	1:B:515:LYS:NZ	2.09	0.50
1:C:101:TYR:C	1:C:101:TYR:CD2	2.84	0.50
1:C:117:TRP:HA	1:C:454:ILE:HD11	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:492:ASP:OD1	1:C:493:VAL:N	2.44	0.50
1:C:429:ARG:NH2	1:D:228:ASN:OD1	105.87	0.50
1:E:332:GLY:HA2	1:E:353:GLN:NE2	2.26	0.50
1:E:344:THR:N	1:E:345:GLY:HA3	2.25	0.50
1:C:469:ALA:CB	1:E:439:TYR:CE1	122.22	0.50
1:E:364:VAL:HG21	1:E:539:ARG:HD3	1.93	0.50
1:E:281:GLN:HG2	1:E:567:THR:HB	1.93	0.50
1:F:344:THR:N	1:F:345:GLY:HA3	2.25	0.50
1:H:214:ASP:OD2	1:H:238:GLN:HB3	2.11	0.50
1:G:316:ARG:HH22	1:H:98:ASN:HD22	64.24	0.50
1:I:100:SER:O	1:I:100:SER:OG	2.23	0.50
1:I:101:TYR:CD2	1:I:101:TYR:C	2.84	0.50
1:J:267:TYR:OH	1:J:477:GLY:O	2.29	0.50
1:K:109:TRP:CD1	1:K:247:LEU:HD22	2.46	0.50
1:K:391:ARG:HH22	1:M:309:ASN:HB2	107.39	0.50
1:K:267:TYR:OH	1:K:477:GLY:O	2.29	0.50
1:M:214:ASP:OD2	1:M:238:GLN:HB3	2.11	0.50
1:L:316:ARG:HH22	1:M:98:ASN:HD22	103.67	0.50
1:N:214:ASP:OD2	1:N:238:GLN:HB3	2.11	0.50
1:N:332:GLY:HA2	1:N:353:GLN:NE2	2.26	0.50
1:O:109:TRP:CD1	1:O:247:LEU:HD22	2.46	0.50
1:O:267:TYR:OH	1:O:477:GLY:O	2.29	0.50
1:N:528:TRP:CB	1:P:246:PRO:CG	2.65	0.50
1:Q:101:TYR:C	1:Q:101:TYR:CD2	2.84	0.50
1:E:323:SER:HG	1:Q:98:ASN:HA	1.72	0.50
1:R:101:TYR:C	1:R:101:TYR:CD2	2.84	0.50
1:R:109:TRP:CD1	1:R:247:LEU:HD22	2.46	0.50
1:R:391:ARG:HH22	1:U:309:ASN:HB2	1.75	0.50
1:R:153:VAL:HB	1:R:505:VAL:HG23	1.93	0.50
1:S:358:ALA:HB2	1:S:399:GLU:HG3	1.93	0.50
1:T:101:TYR:C	1:T:101:TYR:CD2	2.84	0.50
1:A:533:LEU:HD21	1:T:127:GLN:HE21	123.28	0.50
1:T:153:VAL:HB	1:T:505:VAL:HG23	1.93	0.50
1:H:309:ASN:HB2	1:W:391:ARG:HH22	1.75	0.50
1:W:439:TYR:CE1	1:Z:469:ALA:CB	57.60	0.50
1:W:364:VAL:HG21	1:W:539:ARG:HD3	1.93	0.50
1:X:214:ASP:OD2	1:X:238:GLN:HB3	2.11	0.50
1:V:228:ASN:OD1	1:X:429:ARG:NH2	2.44	0.50
1:H:228:ASN:OD1	1:Y:429:ARG:NH2	2.45	0.50
1:Z:316:ARG:HH22	1:6:98:ASN:HD22	162.02	0.50
1:Z:358:ALA:HB2	1:Z:399:GLU:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:429:ARG:NH2	1:O:228:ASN:OD1	2.44	0.50
1:2:101:TYR:C	1:2:101:TYR:CD2	2.84	0.50
1:2:66:ILE:HD12	1:2:510:PHE:HE1	1.75	0.50
1:F:228:ASN:OD1	1:3:429:ARG:NH2	163.88	0.50
1:3:267:TYR:OH	1:3:477:GLY:O	2.29	0.50
1:3:66:ILE:HD12	1:3:510:PHE:HE1	1.75	0.50
1:4:156:THR:O	1:4:163:THR:OG1	2.25	0.50
1:4:109:TRP:CD1	1:4:247:LEU:HD22	2.46	0.50
1:X:228:ASN:OD1	1:4:429:ARG:NH2	2.44	0.50
1:Z:429:ARG:NH2	1:6:228:ASN:OD1	171.74	0.50
1:7:214:ASP:OD2	1:7:238:GLN:HB3	2.11	0.50
1:A:281:GLN:HG2	1:A:567:THR:HB	1.93	0.50
1:A:390:MET:HA	1:A:391:ARG:HD2	1.94	0.50
1:B:109:TRP:CD1	1:B:247:LEU:HD22	2.46	0.50
1:B:390:MET:HA	1:B:391:ARG:HD2	1.94	0.50
1:B:364:VAL:HG21	1:B:539:ARG:HD3	1.93	0.50
1:D:257:ARG:HG2	1:F:37:SER:CA	84.88	0.50
1:D:429:ARG:NH2	1:N:228:ASN:OD1	2.44	0.50
1:E:101:TYR:C	1:E:101:TYR:CD2	2.84	0.50
1:E:431:SER:HG	1:E:433:HIS:CD2	2.45	0.50
1:E:267:TYR:OH	1:E:477:GLY:O	2.29	0.50
1:F:214:ASP:OD2	1:F:238:GLN:HB3	2.11	0.50
1:F:267:TYR:OH	1:F:477:GLY:O	2.29	0.50
1:F:364:VAL:HG21	1:F:539:ARG:HD3	1.93	0.50
1:F:98:ASN:HD22	1:Q:316:ARG:HH22	1.58	0.50
1:A:413:HIS:HA	1:G:339:GLN:HA	1.93	0.50
1:G:358:ALA:HB2	1:G:399:GLU:HG3	1.93	0.50
1:H:309:ASN:HB2	1:O:391:ARG:HH22	182.10	0.50
1:H:358:ALA:HB2	1:H:399:GLU:HG3	1.93	0.50
1:H:98:ASN:HA	1:Y:323:SER:HG	1.73	0.50
1:J:407:TRP:HE3	1:J:410:LYS:HG2	1.76	0.50
1:J:429:ARG:NH2	1:2:228:ASN:OD1	152.18	0.50
1:K:289:CYS:HA	1:L:212:HIS:CE1	59.25	0.50
1:K:407:TRP:HE3	1:K:410:LYS:HG2	1.77	0.50
1:K:153:VAL:HB	1:K:505:VAL:HG23	1.93	0.50
1:C:228:ASN:OD1	1:M:429:ARG:NH2	2.44	0.50
1:N:101:TYR:C	1:N:101:TYR:CD2	2.84	0.50
1:N:429:ARG:NH2	1:P:228:ASN:OD1	2.44	0.50
1:G:212:HIS:CE1	1:O:289:CYS:HA	174.18	0.50
1:P:332:GLY:HA2	1:P:353:GLN:NE2	2.26	0.50
1:P:344:THR:N	1:P:345:GLY:HA3	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:407:TRP:HE3	1:P:410:LYS:HG2	1.77	0.50
1:Q:214:ASP:OD2	1:Q:238:GLN:HB3	2.11	0.50
1:Q:429:ARG:NH2	1:R:228:ASN:OD1	83.25	0.50
1:R:228:ASN:OD1	1:U:429:ARG:NH2	2.44	0.50
1:R:364:VAL:HG21	1:R:539:ARG:HD3	1.93	0.50
1:R:429:ARG:NH2	1:S:228:ASN:OD1	2.45	0.50
1:S:267:TYR:OH	1:S:477:GLY:O	2.29	0.50
1:S:316:ARG:HH22	1:U:98:ASN:HD22	1.59	0.50
1:R:308:ILE:N	1:S:391:ARG:HH12	2.10	0.50
1:S:429:ARG:NH2	1:U:228:ASN:OD1	2.44	0.50
1:T:225:ASP:HB2	1:T:226:ARG:CB	2.36	0.50
1:U:390:MET:HA	1:U:391:ARG:HD2	1.94	0.50
1:W:101:TYR:C	1:W:101:TYR:CD2	2.84	0.50
1:H:316:ARG:HH22	1:W:98:ASN:HD22	1.58	0.50
1:W:98:ASN:HD22	1:X:316:ARG:HH22	64.24	0.50
1:Y:228:ASN:OD1	1:6:429:ARG:NH2	213.61	0.50
1:Y:308:ILE:N	1:Z:391:ARG:HH12	47.32	0.50
1:Y:390:MET:HA	1:Y:391:ARG:HD2	1.94	0.50
1:Y:364:VAL:HG21	1:Y:539:ARG:HD3	1.93	0.50
1:X:228:ASN:OD1	1:Z:429:ARG:NH2	133.28	0.50
1:Z:267:TYR:OH	1:Z:477:GLY:O	2.29	0.50
1:O:117:TRP:HA	1:O:454:ILE:HD11	1.92	0.50
1:M:391:ARG:HH12	1:1:308:ILE:N	2.10	0.50
1:M:391:ARG:HH22	1:1:309:ASN:HB2	1.75	0.50
1:3:263:GLU:HB2	1:3:264:SER:OG	2.10	0.50
1:5:379:TYR:CD2	1:5:392:GLU:HG3	2.44	0.50
1:5:59:HIS:HE1	1:5:515:LYS:NZ	2.09	0.50
1:7:153:VAL:HB	1:7:505:VAL:HG23	1.93	0.50
1:7:492:ASP:OD1	1:7:493:VAL:N	2.44	0.50
1:A:246:PRO:HG3	1:B:528:TRP:HB3	35.59	0.50
1:C:156:THR:O	1:C:163:THR:OG1	2.25	0.50
1:C:214:ASP:OD2	1:C:238:GLN:HB3	2.11	0.50
1:C:94:ARG:NH2	1:M:429:ARG:HH12	2.08	0.50
1:C:308:ILE:N	1:D:391:ARG:HH12	98.63	0.50
1:E:153:VAL:HB	1:E:505:VAL:HG23	1.93	0.50
1:E:528:TRP:CB	1:Q:246:PRO:CG	2.65	0.50
1:F:101:TYR:CD2	1:F:101:TYR:C	2.84	0.50
1:F:429:ARG:NH2	1:T:228:ASN:OD1	171.75	0.50
1:H:308:ILE:N	1:O:391:ARG:HH12	187.53	0.50
1:H:267:TYR:OH	1:H:477:GLY:O	2.29	0.50
1:I:281:GLN:HG2	1:I:567:THR:HB	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:379:TYR:CD2	1:J:392:GLU:HG3	2.44	0.50
1:K:391:ARG:HH12	1:M:308:ILE:N	111.49	0.50
1:K:66:ILE:HD12	1:K:510:PHE:HE1	1.75	0.50
1:L:429:ARG:NH2	1:M:228:ASN:OD1	103.31	0.50
1:M:228:ASN:OD1	1:I:429:ARG:NH2	2.44	0.50
1:P:267:TYR:OH	1:P:477:GLY:O	2.29	0.50
1:R:390:MET:HA	1:R:391:ARG:HD2	1.94	0.50
1:R:407:TRP:HE3	1:R:410:LYS:HG2	1.77	0.50
1:R:59:HIS:HE1	1:R:515:LYS:NZ	2.09	0.50
1:S:407:TRP:HE3	1:S:410:LYS:HG2	1.76	0.50
1:T:281:GLN:HG2	1:T:567:THR:HB	1.93	0.50
1:U:109:TRP:CD1	1:U:247:LEU:HD22	2.46	0.50
1:V:492:ASP:OD1	1:V:493:VAL:N	2.44	0.50
1:U:316:ARG:HH22	1:V:98:ASN:HD22	64.23	0.50
1:W:390:MET:HA	1:W:391:ARG:HD2	1.94	0.50
1:Y:59:HIS:HE1	1:Y:515:LYS:NZ	2.09	0.50
1:Z:59:HIS:HE1	1:Z:515:LYS:NZ	2.09	0.50
1:0:153:VAL:HB	1:0:505:VAL:HG23	1.93	0.50
1:1:101:TYR:C	1:1:101:TYR:CD2	2.84	0.50
1:2:390:MET:HA	1:2:391:ARG:HD2	1.94	0.50
1:I:228:ASN:OD1	1:2:429:ARG:NH2	213.61	0.50
1:3:390:MET:HA	1:3:391:ARG:HD2	1.94	0.50
1:4:116:CYS:HB2	1:4:119:VAL:HG23	1.92	0.50
1:4:117:TRP:HA	1:4:454:ILE:HD11	1.92	0.50
1:4:153:VAL:HB	1:4:505:VAL:HG23	1.93	0.50
1:5:332:GLY:HA2	1:5:353:GLN:NE2	2.26	0.50
1:5:407:TRP:HE3	1:5:410:LYS:HG2	1.77	0.50
1:7:59:HIS:HE1	1:7:515:LYS:NZ	2.09	0.50
1:0:316:ARG:HH22	1:7:98:ASN:HD22	1.58	0.50
1:A:225:ASP:HB2	1:A:226:ARG:CB	2.36	0.50
1:A:109:TRP:CD1	1:A:247:LEU:HD22	2.46	0.50
1:A:358:ALA:HB2	1:A:399:GLU:HG3	1.93	0.50
1:B:228:ASN:OD1	1:L:429:ARG:NH2	2.45	0.50
1:C:407:TRP:HE3	1:C:410:LYS:HG2	1.77	0.50
1:C:431:SER:HG	1:C:433:HIS:CD2	2.25	0.50
1:D:308:ILE:N	1:N:391:ARG:HH12	2.10	0.50
1:D:391:ARG:HH12	1:P:308:ILE:N	2.10	0.50
1:E:109:TRP:CD1	1:E:247:LEU:HD22	2.46	0.50
1:E:214:ASP:OD2	1:E:238:GLN:HB3	2.11	0.50
1:F:390:MET:HA	1:F:391:ARG:HD2	1.94	0.50
1:G:267:TYR:OH	1:G:477:GLY:O	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:390:MET:HA	1:G:391:ARG:HD2	1.94	0.50
1:G:429:ARG:NH2	1:H:228:ASN:OD1	83.25	0.50
1:H:407:TRP:HE3	1:H:410:LYS:HG2	1.77	0.50
1:H:439:TYR:CE1	1:W:469:ALA:CB	2.87	0.50
1:I:214:ASP:OD2	1:I:238:GLN:HB3	2.11	0.50
1:I:429:ARG:NH2	1:J:228:ASN:OD1	80.10	0.50
1:I:492:ASP:OD1	1:I:493:VAL:N	2.44	0.50
1:I:59:HIS:HE1	1:I:515:LYS:NZ	2.09	0.50
1:J:390:MET:HA	1:J:391:ARG:HD2	1.94	0.50
1:J:492:ASP:OD1	1:J:493:VAL:N	2.44	0.50
1:K:338:TRP:O	1:7:414:GLN:N	2.38	0.50
1:L:390:MET:HA	1:L:391:ARG:HD2	1.94	0.50
1:L:407:TRP:HE3	1:L:410:LYS:HG2	1.76	0.50
1:L:267:TYR:OH	1:L:477:GLY:O	2.29	0.50
1:M:109:TRP:CD1	1:M:247:LEU:HD22	2.46	0.50
1:N:246:PRO:CG	1:P:528:TRP:CB	66.74	0.50
1:N:534:PRO:HD3	1:N:563:MET:HE1	1.93	0.50
1:O:344:THR:N	1:O:345:GLY:HA3	2.25	0.50
1:O:407:TRP:HE3	1:O:410:LYS:HG2	1.77	0.50
1:O:364:VAL:HG21	1:O:539:ARG:HD3	1.93	0.50
1:P:153:VAL:HB	1:P:505:VAL:HG23	1.93	0.50
1:Q:225:ASP:HB2	1:Q:226:ARG:CB	2.36	0.50
1:E:308:ILE:N	1:Q:391:ARG:HH12	2.10	0.50
1:T:214:ASP:OD2	1:T:238:GLN:HB3	2.11	0.50
1:T:358:ALA:HB2	1:T:399:GLU:HG3	1.93	0.50
1:T:429:ARG:NH2	1:3:228:ASN:OD1	2.45	0.50
1:W:267:TYR:OH	1:W:477:GLY:O	2.29	0.50
1:X:390:MET:HA	1:X:391:ARG:HD2	1.94	0.50
1:X:98:ASN:HA	1:4:323:SER:HG	1.75	0.50
1:Y:492:ASP:OD1	1:Y:493:VAL:N	2.44	0.50
1:W:323:SER:HG	1:Y:98:ASN:HA	1.74	0.50
1:Y:413:HIS:HA	1:Z:339:GLN:HA	76.10	0.50
1:Z:59:HIS:HE1	1:Z:515:LYS:HZ1	1.60	0.50
1:2:117:TRP:HA	1:2:454:ILE:HD11	1.92	0.50
1:3:407:TRP:HE3	1:3:410:LYS:HG2	1.76	0.50
1:3:492:ASP:OD1	1:3:493:VAL:N	2.45	0.50
1:4:379:TYR:CD2	1:4:392:GLU:HG3	2.44	0.50
1:6:390:MET:HA	1:6:391:ARG:HD2	1.94	0.50
1:A:246:PRO:CG	1:I:528:TRP:CB	2.66	0.50
1:A:341:HIS:HE2	1:B:406:ASP:CG	60.83	0.50
1:A:407:TRP:HE3	1:A:410:LYS:HG2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:492:ASP:OD1	1:A:493:VAL:N	2.44	0.50
1:B:308:ILE:N	1:J:391:ARG:HH12	2.10	0.50
1:B:338:TRP:O	1:5:414:GLN:N	234.26	0.50
1:B:342:TYR:H	1:5:411:ASN:HD22	229.17	0.50
1:C:109:TRP:CD1	1:C:247:LEU:HD22	2.46	0.50
1:C:289:CYS:HA	1:D:212:HIS:CE1	100.75	0.50
1:C:534:PRO:HD3	1:C:563:MET:HE1	1.93	0.50
1:D:225:ASP:HB2	1:D:226:ARG:CB	2.36	0.50
1:D:109:TRP:CD1	1:D:247:LEU:HD22	2.46	0.50
1:D:429:ARG:NH2	1:E:228:ASN:OD1	105.88	0.50
1:D:414:GLN:N	1:E:338:TRP:O	91.66	0.50
1:E:407:TRP:HE3	1:E:410:LYS:HG2	1.76	0.50
1:F:59:HIS:HE1	1:F:515:LYS:NZ	2.09	0.50
1:G:109:TRP:CD1	1:G:247:LEU:HD22	2.46	0.50
1:H:391:ARG:HH12	1:Y:308:ILE:N	2.10	0.50
1:I:358:ALA:HB2	1:I:399:GLU:HG3	1.93	0.50
1:J:332:GLY:HA2	1:J:353:GLN:NE2	2.26	0.50
1:J:289:CYS:HA	1:L:212:HIS:CE1	2.47	0.50
1:L:109:TRP:CD1	1:L:247:LEU:HD22	2.46	0.50
1:M:257:ARG:HG2	1:2:37:SER:CA	2.32	0.50
1:M:407:TRP:HE3	1:M:410:LYS:HG2	1.76	0.50
1:N:267:TYR:OH	1:N:477:GLY:O	2.29	0.50
1:N:407:TRP:HE3	1:N:410:LYS:HG2	1.77	0.50
1:N:429:ARG:NH2	1:O:228:ASN:OD1	83.24	0.50
1:N:364:VAL:HG21	1:N:539:ARG:HD3	1.93	0.50
1:N:316:ARG:HH22	1:O:98:ASN:HD22	64.24	0.50
1:P:257:ARG:N	1:U:37:SER:HG	108.90	0.50
1:Q:267:TYR:OH	1:Q:477:GLY:O	2.29	0.50
1:F:228:ASN:OD1	1:Q:429:ARG:NH2	2.45	0.50
1:Q:492:ASP:OD1	1:Q:493:VAL:N	2.44	0.50
1:Q:364:VAL:HG21	1:Q:539:ARG:HD3	1.93	0.50
1:R:214:ASP:OD2	1:R:238:GLN:HB3	2.11	0.50
1:Q:308:ILE:N	1:R:391:ARG:HH12	47.32	0.50
1:S:281:GLN:HG2	1:S:567:THR:HB	1.93	0.50
1:S:344:THR:N	1:S:345:GLY:HA3	2.25	0.50
1:T:100:SER:O	1:T:100:SER:OG	2.23	0.50
1:T:101:TYR:CZ	1:T:236:GLY:HA3	2.44	0.50
1:T:59:HIS:HE1	1:T:515:LYS:NZ	2.09	0.50
1:U:439:TYR:CE1	1:V:469:ALA:CB	64.25	0.50
1:V:364:VAL:HG21	1:V:539:ARG:HD3	1.93	0.50
1:V:390:MET:HA	1:V:391:ARG:HD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:308:ILE:N	1:Y:391:ARG:HH12	2.10	0.50
1:W:534:PRO:HD3	1:W:563:MET:HE1	1.93	0.50
1:V:98:ASN:HD22	1:X:316:ARG:HH22	1.58	0.50
1:X:391:ARG:HH12	1:Z:308:ILE:N	78.51	0.50
1:W:469:ALA:CB	1:X:439:TYR:CE1	64.26	0.50
1:Y:214:ASP:OD2	1:Y:238:GLN:HB3	2.11	0.50
1:Y:429:ARG:NH2	1:Z:228:ASN:OD1	83.25	0.50
1:Z:214:ASP:OD2	1:Z:238:GLN:HB3	2.11	0.50
1:W:308:ILE:N	1:Z:391:ARG:HH12	66.33	0.50
1:Z:492:ASP:OD1	1:Z:493:VAL:N	2.44	0.50
1:K:528:TRP:HB3	1:O:246:PRO:HG3	1.85	0.50
1:M:212:HIS:CE1	1:1:289:CYS:HA	2.47	0.50
1:4:223:GLN:HB3	1:4:226:ARG:HB3	1.94	0.50
1:V:429:ARG:NH2	1:4:228:ASN:OD1	2.44	0.50
1:4:431:SER:HG	1:4:433:HIS:CD2	2.26	0.50
1:5:390:MET:HA	1:5:391:ARG:HD2	1.94	0.50
1:A:429:ARG:HH12	1:5:94:ARG:NH2	203.18	0.50
1:6:344:THR:N	1:6:345:GLY:HA3	2.25	0.50
1:7:244:PHE:HE2	1:7:246:PRO:HB3	1.63	0.50
1:7:178:GLN:HE21	1:7:262:TRP:HH2	1.60	0.50
1:7:364:VAL:HG21	1:7:539:ARG:HD3	1.93	0.50
1:A:100:SER:O	1:A:100:SER:OG	2.23	0.50
1:B:429:ARG:NH2	1:J:228:ASN:OD1	2.44	0.50
1:D:214:ASP:OD2	1:D:238:GLN:HB3	2.11	0.50
1:C:309:ASN:HB2	1:D:391:ARG:HH22	97.23	0.50
1:E:316:ARG:HH22	1:Q:98:ASN:HD22	1.58	0.50
1:A:127:GLN:HE21	1:F:533:LEU:HD21	1.77	0.50
1:G:407:TRP:HE3	1:G:410:LYS:HG2	1.77	0.50
1:H:289:CYS:HA	1:O:212:HIS:CE1	182.64	0.50
1:H:390:MET:HA	1:H:391:ARG:HD2	1.94	0.50
1:H:429:ARG:NH2	1:W:228:ASN:OD1	2.44	0.50
1:I:101:TYR:CZ	1:I:236:GLY:HA3	2.44	0.50
1:K:212:HIS:CE1	1:M:289:CYS:HA	124.29	0.50
1:K:228:ASN:OD1	1:7:429:ARG:NH2	2.44	0.50
1:K:178:GLN:HE21	1:K:262:TRP:HH2	1.60	0.50
1:K:344:THR:N	1:K:345:GLY:HA3	2.25	0.50
1:M:101:TYR:C	1:M:101:TYR:CD2	2.84	0.50
1:N:492:ASP:OD1	1:N:493:VAL:N	2.44	0.50
1:O:289:CYS:HA	1:P:212:HIS:CE1	59.24	0.50
1:O:390:MET:HA	1:O:391:ARG:HD2	1.94	0.50
1:P:214:ASP:OD2	1:P:238:GLN:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:391:ARG:HH12	1:P:308:ILE:N	62.38	0.50
1:Q:109:TRP:CD1	1:Q:247:LEU:HD22	2.46	0.50
1:R:391:ARG:HH12	1:U:308:ILE:N	2.10	0.50
1:R:267:TYR:OH	1:R:477:GLY:O	2.29	0.50
1:R:492:ASP:OD1	1:R:493:VAL:N	2.44	0.50
1:Q:391:ARG:HH12	1:S:308:ILE:N	98.64	0.50
1:Q:98:ASN:HB2	1:S:316:ARG:HH21	100.22	0.50
1:S:492:ASP:OD1	1:S:493:VAL:N	2.44	0.50
1:S:66:ILE:HD12	1:S:510:PHE:HE1	1.75	0.50
1:C:37:SER:CB	1:T:257:ARG:CG	163.83	0.50
1:T:492:ASP:OD1	1:T:493:VAL:N	2.44	0.50
1:T:534:PRO:HD3	1:T:563:MET:HE1	1.93	0.50
1:T:65:HIS:NE2	1:U:492:ASP:O	2.41	0.50
1:U:407:TRP:HE3	1:U:410:LYS:HG2	1.77	0.50
1:U:153:VAL:HB	1:U:505:VAL:HG23	1.93	0.50
1:V:101:TYR:CD2	1:V:101:TYR:C	2.84	0.50
1:V:178:GLN:HE21	1:V:262:TRP:HH2	1.60	0.50
1:V:289:CYS:HA	1:4:212:HIS:CE1	2.47	0.50
1:X:225:ASP:HB2	1:X:226:ARG:CB	2.36	0.50
1:H:212:HIS:CE1	1:Y:289:CYS:HA	2.47	0.50
1:Y:391:ARG:HH12	1:6:308:ILE:N	165.16	0.50
1:Z:407:TRP:HE3	1:Z:410:LYS:HG2	1.76	0.50
1:0:223:GLN:HB3	1:0:226:ARG:HB3	1.94	0.50
1:0:109:TRP:CD1	1:0:247:LEU:HD22	2.46	0.50
1:2:59:HIS:HE1	1:2:515:LYS:NZ	2.09	0.50
1:4:344:THR:N	1:4:345:GLY:HA3	2.25	0.50
1:4:492:ASP:OD1	1:4:493:VAL:N	2.44	0.50
1:6:109:TRP:CD1	1:6:247:LEU:HD22	2.46	0.50
1:6:407:TRP:HE3	1:6:410:LYS:HG2	1.76	0.50
1:7:101:TYR:C	1:7:101:TYR:CD2	2.84	0.50
1:7:109:TRP:CD1	1:7:247:LEU:HD22	2.46	0.50
1:A:308:ILE:N	1:5:391:ARG:HH12	152.56	0.50
1:B:267:TYR:OH	1:B:477:GLY:O	2.29	0.50
1:D:101:TYR:CD2	1:D:101:TYR:C	2.84	0.50
1:D:223:GLN:HB3	1:D:226:ARG:HB3	1.94	0.50
1:D:492:ASP:OD1	1:D:493:VAL:N	2.44	0.50
1:E:212:HIS:CE1	1:F:289:CYS:HA	2.47	0.50
1:F:492:ASP:OD1	1:F:493:VAL:N	2.44	0.50
1:G:178:GLN:HE21	1:G:262:TRP:HH2	1.60	0.50
1:G:214:ASP:OD2	1:G:238:GLN:HB3	2.11	0.50
1:G:246:PRO:CG	1:O:528:TRP:CB	141.68	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:225:ASP:HB2	1:H:226:ARG:CB	2.36	0.50
1:H:59:HIS:HE1	1:H:515:LYS:NZ	2.09	0.50
1:H:364:VAL:HG21	1:H:539:ARG:HD3	1.93	0.50
1:I:390:MET:HA	1:I:391:ARG:HD2	1.94	0.50
1:I:534:PRO:HD3	1:I:563:MET:HE1	1.98	0.50
1:J:117:TRP:HA	1:J:454:ILE:HD11	1.92	0.50
1:K:212:HIS:CE1	1:7:289:CYS:HA	2.47	0.50
1:K:223:GLN:HB3	1:K:226:ARG:HB3	1.94	0.50
1:K:379:TYR:CD2	1:K:392:GLU:HG3	2.44	0.50
1:K:439:TYR:CE1	1:0:469:ALA:CB	2.86	0.50
1:K:492:ASP:OD1	1:K:493:VAL:N	2.44	0.50
1:B:391:ARG:HH12	1:L:308:ILE:N	2.10	0.50
1:M:223:GLN:HB3	1:M:226:ARG:HB3	1.94	0.50
1:O:178:GLN:HE21	1:O:262:TRP:HH2	1.60	0.50
1:O:492:ASP:OD1	1:O:493:VAL:N	2.44	0.50
1:D:98:ASN:HB2	1:P:316:ARG:HH21	1.67	0.50
1:N:308:ILE:N	1:P:391:ARG:HH12	2.10	0.50
1:D:469:ALA:CB	1:P:439:TYR:CE1	2.86	0.50
1:S:214:ASP:OD2	1:S:238:GLN:HB3	2.11	0.50
1:T:391:ARG:HH12	1:V:308:ILE:N	78.52	0.50
1:U:223:GLN:HB3	1:U:226:ARG:HB3	1.94	0.50
1:U:225:ASP:HB2	1:U:226:ARG:CB	2.36	0.50
1:T:429:ARG:NH2	1:U:228:ASN:OD1	80.10	0.50
1:U:528:TRP:CB	1:V:246:PRO:CG	44.15	0.50
1:V:109:TRP:CD1	1:V:247:LEU:HD22	2.46	0.50
1:W:228:ASN:OD1	1:X:429:ARG:NH2	83.24	0.50
1:X:212:HIS:CE1	1:Z:289:CYS:HA	83.42	0.50
1:X:223:GLN:HB3	1:X:226:ARG:HB3	1.94	0.50
1:X:109:TRP:CD1	1:X:247:LEU:HD22	2.46	0.50
1:Z:390:MET:HA	1:Z:391:ARG:HD2	1.94	0.50
1:Z:528:TRP:CB	1:6:246:PRO:CG	164.47	0.50
1:0:214:ASP:OD2	1:0:238:GLN:HB3	2.11	0.50
1:0:407:TRP:HE3	1:0:410:LYS:HG2	1.76	0.50
1:1:109:TRP:CD1	1:1:247:LEU:HD22	2.46	0.50
1:C:528:TRP:HB3	1:1:246:PRO:HG3	1.85	0.50
1:1:534:PRO:HD3	1:1:563:MET:HE1	1.92	0.50
1:2:267:TYR:OH	1:2:477:GLY:O	2.29	0.50
1:T:308:ILE:N	1:3:391:ARG:HH12	2.09	0.50
1:3:117:TRP:HA	1:3:454:ILE:HD11	1.92	0.50
1:V:414:GLN:N	1:4:338:TRP:O	2.38	0.50
1:4:59:HIS:HE1	1:4:515:LYS:HZ1	1.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:214:ASP:OD2	1:5:238:GLN:HB3	2.11	0.50
1:5:117:TRP:HA	1:5:454:ILE:HD11	1.92	0.50
1:6:223:GLN:HB3	1:6:226:ARG:HB3	1.94	0.50
1:6:178:GLN:HE21	1:6:262:TRP:HH2	1.60	0.50
1:6:153:VAL:HB	1:6:505:VAL:HG23	1.93	0.50
1:7:390:MET:HA	1:7:391:ARG:HD2	1.94	0.50
1:7:379:TYR:CD2	1:7:392:GLU:HG3	2.44	0.50
1:A:267:TYR:OH	1:A:477:GLY:O	2.29	0.50
1:A:153:VAL:HB	1:A:505:VAL:HG23	1.93	0.50
1:A:59:HIS:HE1	1:A:515:LYS:NZ	2.09	0.50
1:C:246:PRO:HG3	1:E:528:TRP:HB3	73.97	0.50
1:C:98:ASN:HA	1:E:323:SER:HG	126.78	0.50
1:E:223:GLN:HB3	1:E:226:ARG:HB3	1.94	0.50
1:F:225:ASP:HB2	1:F:226:ARG:CB	2.36	0.50
1:G:107:THR:CG2	1:G:209:TYR:HD2	2.25	0.50
1:H:101:TYR:C	1:H:101:TYR:CD2	2.84	0.50
1:H:109:TRP:CD1	1:H:247:LEU:HD22	2.46	0.50
1:H:429:ARG:NH2	1:O:228:ASN:OD1	240.51	0.50
1:I:223:GLN:HB3	1:I:226:ARG:HB3	1.94	0.50
1:G:308:ILE:N	1:I:391:ARG:HH12	2.10	0.50
1:I:308:ILE:N	1:J:391:ARG:HH12	88.89	0.50
1:K:528:TRP:CB	1:L:246:PRO:CG	35.84	0.50
1:M:534:PRO:HD3	1:M:563:MET:HE1	1.93	0.50
1:N:212:HIS:CE1	1:P:289:CYS:HA	49.41	0.50
1:N:390:MET:HA	1:N:391:ARG:HD2	1.94	0.50
1:N:308:ILE:N	1:O:391:ARG:HH12	47.32	0.50
1:O:59:HIS:HE1	1:O:515:LYS:NZ	2.09	0.50
1:P:492:ASP:OD1	1:P:493:VAL:N	2.44	0.50
1:E:289:CYS:HA	1:Q:212:HIS:CE1	2.47	0.50
1:Q:390:MET:HA	1:Q:391:ARG:HD2	1.94	0.50
1:R:178:GLN:HE21	1:R:262:TRP:HH2	1.60	0.50
1:S:332:GLY:HA2	1:S:353:GLN:NE2	2.26	0.50
1:S:528:TRP:CB	1:U:246:PRO:CG	2.65	0.50
1:T:223:GLN:HB3	1:T:226:ARG:HB3	1.94	0.50
1:T:390:MET:HA	1:T:391:ARG:HD2	1.94	0.50
1:U:178:GLN:HE21	1:U:262:TRP:HH2	1.60	0.50
1:V:107:THR:CG2	1:V:209:TYR:HD2	2.25	0.50
1:V:379:TYR:CD2	1:V:392:GLU:HG3	2.44	0.50
1:W:214:ASP:OD2	1:W:238:GLN:HB3	2.11	0.50
1:W:109:TRP:CD1	1:W:247:LEU:HD22	2.46	0.50
1:Y:101:TYR:CD2	1:Y:101:TYR:C	2.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:390:MET:HA	1:O:391:ARG:HD2	1.94	0.50
1:B:252:ASN:OD1	1:4:42:ASN:ND2	166.07	0.50
1:X:469:ALA:CB	1:4:439:TYR:CE1	2.86	0.50
1:T:42:ASN:ND2	1:5:252:ASN:OD1	107.95	0.50
1:5:267:TYR:OH	1:5:477:GLY:O	2.29	0.50
1:7:223:GLN:HB3	1:7:226:ARG:HB3	1.94	0.50
1:A:429:ARG:NH2	1:G:228:ASN:OD1	2.44	0.50
1:B:439:TYR:CE1	1:J:469:ALA:CB	2.87	0.50
1:B:153:VAL:HB	1:B:505:VAL:HG23	1.92	0.50
1:C:223:GLN:HB3	1:C:226:ARG:HB3	1.94	0.50
1:C:390:MET:HA	1:C:391:ARG:HD2	1.94	0.50
1:E:390:MET:HA	1:E:391:ARG:HD2	1.94	0.50
1:F:308:ILE:N	1:T:391:ARG:HH12	161.62	0.50
1:F:391:ARG:HH12	1:3:308:ILE:N	173.78	0.50
1:G:223:GLN:HB3	1:G:226:ARG:HB3	1.94	0.50
1:G:429:ARG:NH2	1:I:228:ASN:OD1	2.45	0.50
1:I:289:CYS:HA	1:J:212:HIS:CE1	59.25	0.50
1:I:391:ARG:HH12	1:2:308:ILE:N	165.16	0.50
1:G:316:ARG:HH22	1:I:98:ASN:HD22	1.58	0.50
1:L:153:VAL:HB	1:L:505:VAL:HG23	1.93	0.50
1:M:492:ASP:OD1	1:M:493:VAL:N	2.44	0.50
1:N:178:GLN:HE21	1:N:262:TRP:HH2	1.60	0.50
1:P:390:MET:HA	1:P:391:ARG:HD2	1.94	0.50
1:R:223:GLN:HB3	1:R:226:ARG:HB3	1.94	0.50
1:U:101:TYR:CD2	1:U:101:TYR:C	2.84	0.50
1:U:267:TYR:OH	1:U:477:GLY:O	2.29	0.50
1:V:223:GLN:HB3	1:V:226:ARG:HB3	1.94	0.50
1:X:212:HIS:CE1	1:4:289:CYS:HA	2.47	0.50
1:X:246:PRO:HG3	1:4:528:TRP:HB3	1.85	0.50
1:X:407:TRP:HE3	1:X:410:LYS:HG2	1.76	0.50
1:Y:407:TRP:HE3	1:Y:410:LYS:HG2	1.77	0.50
1:1:223:GLN:HB3	1:1:226:ARG:HB3	1.94	0.49
1:C:429:ARG:NH2	1:1:228:ASN:OD1	2.45	0.49
1:2:492:ASP:OD1	1:2:493:VAL:N	2.44	0.49
1:T:289:CYS:HA	1:3:212:HIS:CE1	2.47	0.49
1:3:379:TYR:CD2	1:3:392:GLU:HG3	2.44	0.49
1:O:252:ASN:OD1	1:3:42:ASN:ND2	2.45	0.49
1:6:358:ALA:HB2	1:6:399:GLU:HG3	1.93	0.49
1:B:212:HIS:CE1	1:L:289:CYS:HA	2.47	0.49
1:B:533:LEU:HD21	1:I:127:GLN:HE21	1.77	0.49
1:C:178:GLN:HE21	1:C:262:TRP:HH2	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:338:TRP:O	1:M:414:GLN:N	2.38	0.49
1:C:228:ASN:OD1	1:E:429:ARG:NH2	142.90	0.49
1:E:534:PRO:HD3	1:E:563:MET:HE1	1.96	0.49
1:G:37:SER:HG	1:W:257:ARG:N	2.08	0.49
1:F:492:ASP:O	1:H:65:HIS:NE2	117.65	0.49
1:I:212:HIS:CE1	1:2:289:CYS:HA	165.68	0.49
1:J:214:ASP:OD2	1:J:238:GLN:HB3	2.11	0.49
1:J:223:GLN:HB3	1:J:226:ARG:HB3	1.94	0.49
1:L:223:GLN:HB3	1:L:226:ARG:HB3	1.94	0.49
1:O:101:TYR:CD2	1:O:101:TYR:C	2.84	0.49
1:N:289:CYS:HA	1:P:212:HIS:CE1	2.47	0.49
1:D:212:HIS:CE1	1:P:289:CYS:HA	2.47	0.49
1:P:431:SER:HG	1:P:433:HIS:CD2	2.26	0.49
1:Q:212:HIS:CE1	1:S:289:CYS:HA	100.75	0.49
1:S:390:MET:HA	1:S:391:ARG:HD2	1.94	0.49
1:T:267:TYR:OH	1:T:477:GLY:O	2.29	0.49
1:T:98:ASN:HD22	1:V:316:ARG:HH22	104.07	0.49
1:U:100:SER:O	1:U:100:SER:OG	2.23	0.49
1:U:289:CYS:HA	1:V:212:HIS:CE1	52.15	0.49
1:U:358:ALA:HB2	1:U:399:GLU:HG3	1.93	0.49
1:H:308:ILE:N	1:W:391:ARG:HH12	2.10	0.49
1:W:429:ARG:NH2	1:Z:228:ASN:OD1	91.86	0.49
1:K:289:CYS:HA	1:0:212:HIS:CE1	2.47	0.49
1:1:358:ALA:HB2	1:1:399:GLU:HG3	1.93	0.49
1:1:407:TRP:HE3	1:1:410:LYS:HG2	1.77	0.49
1:2:225:ASP:HB2	1:2:226:ARG:CB	2.36	0.49
1:J:308:ILE:N	1:2:391:ARG:HH12	112.14	0.49
1:3:107:THR:CG2	1:3:209:TYR:HD2	2.25	0.49
1:4:534:PRO:HD3	1:4:563:MET:HE1	1.92	0.49
1:5:492:ASP:OD1	1:5:493:VAL:N	2.44	0.49
1:6:101:TYR:CD2	1:6:101:TYR:C	2.84	0.49
1:6:267:TYR:OH	1:6:477:GLY:O	2.29	0.49
1:A:178:GLN:HE21	1:A:262:TRP:HH2	1.60	0.49
1:A:223:GLN:HB3	1:A:226:ARG:HB3	1.94	0.49
1:D:390:MET:HA	1:D:391:ARG:HD2	1.94	0.49
1:D:120:TRP:CZ3	1:D:516:MET:HG2	2.48	0.49
1:F:289:CYS:HA	1:T:212:HIS:CE1	160.62	0.49
1:F:379:TYR:CD2	1:F:392:GLU:HG3	2.44	0.49
1:G:391:ARG:HH12	1:O:308:ILE:N	200.14	0.49
1:H:223:GLN:HB3	1:H:226:ARG:HB3	1.94	0.49
1:J:101:TYR:CZ	1:J:236:GLY:HA3	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:429:ARG:NH2	1:L:228:ASN:OD1	2.44	0.49
1:K:228:ASN:OD1	1:M:429:ARG:NH2	150.26	0.49
1:K:332:GLY:HA2	1:K:353:GLN:NE2	2.26	0.49
1:L:178:GLN:HE21	1:L:262:TRP:HH2	1.60	0.49
1:L:225:ASP:HB2	1:L:226:ARG:CB	2.36	0.49
1:K:308:ILE:N	1:L:391:ARG:HH12	88.89	0.49
1:C:212:HIS:CE1	1:M:289:CYS:HA	2.47	0.49
1:M:338:TRP:O	1:1:414:GLN:N	2.37	0.49
1:N:98:ASN:HD22	1:P:316:ARG:HH22	42.96	0.49
1:F:391:ARG:HH12	1:Q:308:ILE:N	2.10	0.49
1:T:228:ASN:OD1	1:V:429:ARG:NH2	133.28	0.49
1:U:107:THR:CG2	1:U:209:TYR:HD2	2.25	0.49
1:U:429:ARG:NH2	1:V:228:ASN:OD1	83.24	0.49
1:V:244:PHE:HE2	1:V:246:PRO:HB3	1.63	0.49
1:H:289:CYS:HA	1:W:212:HIS:CE1	2.47	0.49
1:W:212:HIS:CE1	1:X:289:CYS:HA	52.16	0.49
1:W:178:GLN:HE21	1:W:262:TRP:HH2	1.60	0.49
1:W:391:ARG:HH12	1:X:308:ILE:N	47.33	0.49
1:W:429:ARG:NH2	1:Y:228:ASN:OD1	2.45	0.49
1:W:533:LEU:HD21	1:X:127:GLN:HE21	1.77	0.49
1:X:379:TYR:CD2	1:X:392:GLU:HG3	2.44	0.49
1:Y:153:VAL:HB	1:Y:505:VAL:HG23	1.93	0.49
1:Y:289:CYS:HA	1:Z:212:HIS:CE1	52.15	0.49
1:Z:364:VAL:HG21	1:Z:539:ARG:HD3	1.93	0.49
1:K:308:ILE:N	1:0:391:ARG:HH12	2.10	0.49
1:0:411:ASN:HD22	1:7:342:TYR:H	1.61	0.49
1:3:101:TYR:C	1:3:101:TYR:CD2	2.84	0.49
1:3:223:GLN:HB3	1:3:226:ARG:HB3	1.94	0.49
1:5:223:GLN:HB3	1:5:226:ARG:HB3	1.94	0.49
1:A:411:ASN:HD22	1:5:342:TYR:H	189.53	0.49
1:5:344:THR:N	1:5:345:GLY:HA3	2.26	0.49
1:5:153:VAL:HB	1:5:505:VAL:HG23	1.93	0.49
1:Z:289:CYS:HA	1:6:212:HIS:CE1	160.62	0.49
1:A:107:THR:CG2	1:A:209:TYR:HD2	2.25	0.49
1:B:178:GLN:HE21	1:B:262:TRP:HH2	1.60	0.49
1:B:492:ASP:OD1	1:B:493:VAL:N	2.44	0.49
1:B:252:ASN:OD1	1:C:42:ASN:ND2	2.45	0.49
1:D:101:TYR:CZ	1:D:236:GLY:HA3	2.44	0.49
1:D:289:CYS:HA	1:E:212:HIS:CE1	100.75	0.49
1:D:289:CYS:HA	1:N:212:HIS:CE1	2.47	0.49
1:D:439:TYR:CE1	1:N:469:ALA:CB	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:178:GLN:HE21	1:E:262:TRP:HH2	1.60	0.49
1:E:228:ASN:OD1	1:F:429:ARG:NH2	2.44	0.49
1:E:492:ASP:OD1	1:E:493:VAL:N	2.45	0.49
1:G:289:CYS:HA	1:H:212:HIS:CE1	52.16	0.49
1:I:267:TYR:OH	1:I:477:GLY:O	2.29	0.49
1:A:212:HIS:CE1	1:I:289:CYS:HA	2.46	0.49
1:J:225:ASP:HB2	1:J:226:ARG:CB	2.36	0.49
1:K:107:THR:CG2	1:K:209:TYR:HD2	2.25	0.49
1:K:390:MET:HA	1:K:391:ARG:HD2	1.94	0.49
1:L:332:GLY:HA2	1:L:353:GLN:NE2	2.26	0.49
1:L:289:CYS:HA	1:M:212:HIS:CE1	91.02	0.49
1:N:109:TRP:CD1	1:N:247:LEU:HD22	2.46	0.49
1:O:107:THR:CG2	1:O:209:TYR:HD2	2.25	0.49
1:O:379:TYR:CD2	1:O:392:GLU:HG3	2.44	0.49
1:Q:178:GLN:HE21	1:Q:262:TRP:HH2	1.60	0.49
1:Q:289:CYS:HA	1:R:212:HIS:CE1	52.16	0.49
1:Q:407:TRP:HE3	1:Q:410:LYS:HG2	1.77	0.49
1:Q:439:TYR:CE1	1:R:469:ALA:CB	64.26	0.49
1:Q:120:TRP:CZ3	1:Q:516:MET:HG2	2.48	0.49
1:R:289:CYS:HA	1:S:212:HIS:CE1	2.47	0.49
1:Q:98:ASN:HD22	1:S:316:ARG:HH22	99.99	0.49
1:Q:469:ALA:CB	1:S:439:TYR:CE1	76.69	0.49
1:T:308:ILE:N	1:U:391:ARG:HH12	88.89	0.49
1:V:127:GLN:HE21	1:X:533:LEU:HD21	58.74	0.49
1:V:439:TYR:CE1	1:4:469:ALA:CB	2.86	0.49
1:W:101:TYR:CZ	1:W:236:GLY:HA3	2.44	0.49
1:W:379:TYR:CD2	1:W:392:GLU:HG3	2.44	0.49
1:W:533:LEU:HD21	1:0:127:GLN:HE21	119.07	0.49
1:X:178:GLN:HE21	1:X:262:TRP:HH2	1.60	0.49
1:V:342:TYR:H	1:X:411:ASN:HD22	1.61	0.49
1:Y:223:GLN:HB3	1:Y:226:ARG:HB3	1.94	0.49
1:W:289:CYS:HA	1:Z:212:HIS:CE1	82.17	0.49
1:Z:534:PRO:HD3	1:Z:563:MET:HE1	1.94	0.49
1:K:411:ASN:HD22	1:0:342:TYR:H	1.61	0.49
1:1:114:ALA:HB1	1:1:120:TRP:NE1	2.28	0.49
1:3:101:TYR:CZ	1:3:236:GLY:HA3	2.44	0.49
1:3:120:TRP:CZ3	1:3:516:MET:HG2	2.48	0.49
1:5:225:ASP:HB2	1:5:226:ARG:CB	2.36	0.49
1:B:339:GLN:HA	1:5:413:HIS:HA	231.81	0.49
1:A:42:ASN:ND2	1:E:252:ASN:OD1	2.46	0.49
1:B:332:GLY:HA2	1:B:353:GLN:NE2	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:358:ALA:HB2	1:C:399:GLU:HG3	1.93	0.49
1:D:98:ASN:HD22	1:P:316:ARG:HH22	1.58	0.49
1:G:120:TRP:CZ3	1:G:516:MET:HG2	2.48	0.49
1:H:178:GLN:HE21	1:H:262:TRP:HH2	1.60	0.49
1:F:252:ASN:OD1	1:H:42:ASN:ND2	89.09	0.49
1:H:533:LEU:HD21	1:3:127:GLN:HE21	175.46	0.49
1:G:289:CYS:HA	1:I:212:HIS:CE1	2.47	0.49
1:I:257:ARG:CG	1:1:37:SER:CB	113.33	0.49
1:J:107:THR:CG2	1:J:209:TYR:HD2	2.25	0.49
1:L:101:TYR:CZ	1:L:236:GLY:HA3	2.44	0.49
1:L:120:TRP:CZ3	1:L:516:MET:HG2	2.48	0.49
1:J:323:SER:HG	1:L:98:ASN:HA	1.76	0.49
1:O:101:TYR:CZ	1:O:236:GLY:HA3	2.44	0.49
1:O:429:ARG:NH2	1:P:228:ASN:OD1	80.09	0.49
1:P:252:ASN:OD1	1:U:42:ASN:ND2	112.41	0.49
1:P:178:GLN:HE21	1:P:262:TRP:HH2	1.60	0.49
1:P:120:TRP:CZ3	1:P:516:MET:HG2	2.48	0.49
1:R:100:SER:O	1:R:100:SER:OG	2.23	0.49
1:R:212:HIS:CE1	1:U:289:CYS:HA	2.47	0.49
1:S:120:TRP:CZ3	1:S:516:MET:HG2	2.48	0.49
1:T:212:HIS:CE1	1:V:289:CYS:HA	83.42	0.49
1:U:379:TYR:CD2	1:U:392:GLU:HG3	2.43	0.49
1:R:342:TYR:H	1:U:411:ASN:HD22	1.60	0.49
1:V:358:ALA:HB2	1:V:399:GLU:HG3	1.93	0.49
1:W:127:GLN:HE21	1:0:533:LEU:HD21	125.10	0.49
1:W:127:GLN:HE21	1:X:533:LEU:HD21	1.77	0.49
1:V:212:HIS:CE1	1:X:289:CYS:HA	2.47	0.49
1:X:342:TYR:H	1:Z:411:ASN:HD22	119.05	0.49
1:W:246:PRO:CG	1:X:528:TRP:CB	44.16	0.49
1:X:98:ASN:HD22	1:Z:316:ARG:HH22	104.07	0.49
1:Z:100:SER:OG	1:Z:100:SER:O	2.23	0.49
1:C:308:ILE:N	1:1:391:ARG:HH12	2.10	0.49
1:J:528:TRP:HB3	1:2:246:PRO:HG3	132.25	0.49
1:3:214:ASP:OD2	1:3:238:GLN:HB3	2.11	0.49
1:5:534:PRO:HD3	1:5:563:MET:HE1	1.95	0.49
1:0:289:CYS:HA	1:7:212:HIS:CE1	2.47	0.49
1:7:358:ALA:HB2	1:7:399:GLU:HG3	1.93	0.49
1:A:439:TYR:CE1	1:5:469:ALA:CB	158.90	0.49
1:A:529:ASN:O	1:T:124:ALA:HB2	122.28	0.49
1:B:407:TRP:HE3	1:B:410:LYS:HG2	1.77	0.49
1:C:114:ALA:HB1	1:C:120:TRP:NE1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:114:ALA:HB1	1:D:120:TRP:NE1	2.28	0.49
1:C:414:GLN:N	1:D:338:TRP:O	91.66	0.49
1:E:114:ALA:HB1	1:E:120:TRP:NE1	2.28	0.49
1:E:107:THR:CG2	1:E:209:TYR:HD2	2.25	0.49
1:A:252:ASN:OD1	1:E:42:ASN:ND2	52.53	0.49
1:G:411:ASN:HD22	1:I:342:TYR:H	1.61	0.49
1:G:96:THR:HG21	1:G:221:ILE:CG1	2.43	0.49
1:I:178:GLN:HE21	1:I:262:TRP:HH2	1.60	0.49
1:A:228:ASN:OD1	1:I:429:ARG:NH2	2.45	0.49
1:J:120:TRP:CZ3	1:J:516:MET:HG2	2.48	0.49
1:J:59:HIS:HE1	1:J:515:LYS:HZ1	1.67	0.49
1:K:96:THR:HG21	1:K:221:ILE:CG1	2.43	0.49
1:K:42:ASN:ND2	1:L:252:ASN:OD1	2.46	0.49
1:J:316:ARG:HH22	1:L:98:ASN:HD22	1.58	0.49
1:M:114:ALA:HB1	1:M:120:TRP:NE1	2.28	0.49
1:N:114:ALA:HB1	1:N:120:TRP:NE1	2.28	0.49
1:N:107:THR:CG2	1:N:209:TYR:HD2	2.25	0.49
1:D:411:ASN:HD22	1:N:342:TYR:H	1.60	0.49
1:O:120:TRP:CZ3	1:O:516:MET:HG2	2.48	0.49
1:Q:114:ALA:HB1	1:Q:120:TRP:NE1	2.28	0.49
1:Q:107:THR:CG2	1:Q:209:TYR:HD2	2.25	0.49
1:Q:101:TYR:CZ	1:Q:236:GLY:HA3	2.44	0.49
1:R:379:TYR:CD2	1:R:392:GLU:HG3	2.44	0.49
1:S:439:TYR:CE1	1:U:469:ALA:CB	2.87	0.49
1:S:534:PRO:HD3	1:S:563:MET:HE1	1.93	0.49
1:S:289:CYS:HA	1:U:212:HIS:CE1	2.47	0.49
1:U:308:ILE:N	1:V:391:ARG:HH12	47.31	0.49
1:T:342:TYR:H	1:V:411:ASN:HD22	119.05	0.49
1:X:100:SER:O	1:X:100:SER:OG	2.23	0.49
1:X:342:TYR:H	1:4:411:ASN:HD22	1.61	0.49
1:Y:212:HIS:CE1	1:6:289:CYS:HA	165.67	0.49
1:W:289:CYS:HA	1:Y:212:HIS:CE1	2.47	0.49
1:X:42:ASN:ND2	1:Y:252:ASN:OD1	2.46	0.49
1:H:98:ASN:HD22	1:Y:316:ARG:HH22	1.58	0.49
1:Y:342:TYR:H	1:6:411:ASN:HD22	191.36	0.49
1:Y:534:PRO:HD3	1:Y:563:MET:HE1	1.95	0.49
1:1:390:MET:HA	1:1:391:ARG:HD2	1.94	0.49
1:2:281:GLN:HG2	1:2:567:THR:HB	1.93	0.49
1:2:96:THR:HG21	1:2:221:ILE:CG1	2.43	0.49
1:4:127:GLN:HE21	1:5:533:LEU:HD21	1.77	0.49
1:7:117:TRP:HA	1:7:454:ILE:HD11	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:120:TRP:CZ3	1:A:516:MET:HG2	2.48	0.49
1:B:101:TYR:CZ	1:B:236:GLY:HA3	2.44	0.49
1:B:96:THR:HG21	1:B:221:ILE:CG1	2.43	0.49
1:C:391:ARG:HH12	1:E:308:ILE:N	128.62	0.49
1:E:342:TYR:H	1:F:411:ASN:HD22	1.61	0.49
1:E:358:ALA:HB2	1:E:399:GLU:HG3	1.93	0.49
1:F:120:TRP:CZ3	1:F:516:MET:HG2	2.48	0.49
1:A:533:LEU:HD21	1:F:127:GLN:HE21	1.77	0.49
1:F:453:ALA:O	1:F:472:PRO:HD2	2.13	0.49
1:G:308:ILE:N	1:H:391:ARG:HH12	47.32	0.49
1:G:379:TYR:CD2	1:G:392:GLU:HG3	2.44	0.49
1:H:342:TYR:H	1:Y:411:ASN:HD22	1.61	0.49
1:G:127:GLN:HE21	1:H:533:LEU:HD21	1.78	0.49
1:J:534:PRO:HD3	1:J:563:MET:HE1	1.95	0.49
1:K:120:TRP:CZ3	1:K:516:MET:HG2	2.48	0.49
1:J:308:ILE:N	1:L:391:ARG:HH12	2.10	0.49
1:L:534:PRO:HD3	1:L:563:MET:HE1	2.01	0.49
1:L:96:THR:HG21	1:L:221:ILE:CG1	2.43	0.49
1:N:120:TRP:CZ3	1:N:516:MET:HG2	2.48	0.49
1:O:114:ALA:HB1	1:O:120:TRP:NE1	2.28	0.49
1:O:96:THR:HG21	1:O:221:ILE:CG1	2.43	0.49
1:F:212:HIS:CE1	1:Q:289:CYS:HA	2.47	0.49
1:E:411:ASN:HD22	1:Q:342:TYR:H	1.60	0.49
1:S:101:TYR:CZ	1:S:236:GLY:HA3	2.44	0.49
1:Q:42:ASN:ND2	1:S:252:ASN:OD1	2.46	0.49
1:S:533:LEU:HD21	1:T:127:GLN:HE21	1.77	0.49
1:T:178:GLN:HE21	1:T:262:TRP:HH2	1.60	0.49
1:S:127:GLN:HE21	1:T:533:LEU:HD21	1.78	0.49
1:U:120:TRP:CZ3	1:U:516:MET:HG2	2.48	0.49
1:T:289:CYS:HA	1:U:212:HIS:CE1	59.25	0.49
1:V:120:TRP:CZ3	1:V:516:MET:HG2	2.48	0.49
1:V:96:THR:HG21	1:V:221:ILE:CG1	2.43	0.49
1:W:120:TRP:CZ3	1:W:516:MET:HG2	2.48	0.49
1:W:332:GLY:HA2	1:W:353:GLN:NE2	2.26	0.49
1:W:42:ASN:ND2	1:7:252:ASN:OD1	126.72	0.49
1:X:364:VAL:HG21	1:X:539:ARG:HD3	1.93	0.49
1:X:391:ARG:HH12	1:4:308:ILE:N	2.10	0.49
1:I:127:GLN:HE21	1:Z:533:LEU:HD21	102.63	0.49
1:Z:252:ASN:OD1	1:0:42:ASN:ND2	2.46	0.49
1:0:120:TRP:CZ3	1:0:516:MET:HG2	2.48	0.49
1:C:289:CYS:HA	1:1:212:HIS:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:47:PHE:HE2	1:2:128:GLN:HB3	1.78	0.49
1:3:114:ALA:HB1	1:3:120:TRP:NE1	2.28	0.49
1:T:406:ASP:CG	1:3:341:HIS:HE2	2.16	0.49
1:4:47:PHE:HE2	1:4:128:GLN:HB3	1.78	0.49
1:4:358:ALA:HB2	1:4:399:GLU:HG3	1.93	0.49
1:5:47:PHE:HE2	1:5:128:GLN:HB3	1.78	0.49
1:5:66:ILE:HD11	1:5:206:LEU:HD22	1.95	0.49
1:6:120:TRP:CZ3	1:6:516:MET:HG2	2.48	0.49
1:6:453:ALA:O	1:6:472:PRO:HD2	2.13	0.49
1:K:469:ALA:CB	1:7:439:TYR:CE1	2.86	0.49
1:A:332:GLY:HA2	1:A:353:GLN:NE2	2.26	0.49
1:B:120:TRP:CZ3	1:B:516:MET:HG2	2.48	0.49
1:C:107:THR:CG2	1:C:209:TYR:HD2	2.25	0.49
1:C:212:HIS:CE1	1:E:289:CYS:HA	107.78	0.49
1:D:453:ALA:O	1:D:472:PRO:HD2	2.13	0.49
1:E:120:TRP:CZ3	1:E:516:MET:HG2	2.48	0.49
1:E:47:PHE:HE2	1:E:128:GLN:HB3	1.78	0.49
1:E:109:TRP:CZ3	1:E:485:LYS:HB2	2.48	0.49
1:F:114:ALA:HB1	1:F:120:TRP:NE1	2.28	0.49
1:F:47:PHE:HE2	1:F:128:GLN:HB3	1.78	0.49
1:F:96:THR:HG21	1:F:221:ILE:CG1	2.43	0.49
1:F:407:TRP:HE3	1:F:410:LYS:HG2	1.76	0.49
1:A:289:CYS:HA	1:G:212:HIS:CE1	2.48	0.49
1:G:101:TYR:CZ	1:G:236:GLY:HA3	2.44	0.49
1:G:492:ASP:OD1	1:G:493:VAL:N	2.44	0.49
1:G:59:HIS:HE1	1:G:515:LYS:HZ1	1.61	0.49
1:A:192:TYR:CD1	1:I:310:CYS:HB3	2.48	0.49
1:I:533:LEU:HD21	1:Z:127:GLN:HE21	103.19	0.49
1:J:66:ILE:HD11	1:J:206:LEU:HD22	1.95	0.49
1:J:47:PHE:HE2	1:J:128:GLN:HB3	1.78	0.49
1:J:96:THR:HG21	1:J:221:ILE:CG1	2.43	0.49
1:K:114:ALA:HB1	1:K:120:TRP:NE1	2.28	0.49
1:J:533:LEU:HD21	1:K:127:GLN:HE21	1.77	0.49
1:L:107:THR:CG2	1:L:209:TYR:HD2	2.25	0.49
1:G:533:LEU:HD21	1:L:127:GLN:HE21	121.40	0.49
1:L:379:TYR:CD2	1:L:392:GLU:HG3	2.44	0.49
1:M:120:TRP:CZ3	1:M:516:MET:HG2	2.48	0.49
1:N:42:ASN:ND2	1:Z:252:ASN:OD1	163.50	0.49
1:O:411:ASN:HD22	1:P:342:TYR:H	65.94	0.49
1:P:106:GLU:HA	1:P:210:CYS:HB3	1.95	0.49
1:Q:223:GLN:HB3	1:Q:226:ARG:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:42:ASN:ND2	1:Q:252:ASN:OD1	2.46	0.49
1:R:332:GLY:HA2	1:R:353:GLN:NE2	2.26	0.49
1:S:178:GLN:HE21	1:S:262:TRP:HH2	1.60	0.49
1:S:223:GLN:HB3	1:S:226:ARG:HB3	1.94	0.49
1:O:533:LEU:HD21	1:U:127:GLN:HE21	148.51	0.49
1:S:308:ILE:N	1:U:391:ARG:HH12	2.10	0.49
1:U:453:ALA:O	1:U:472:PRO:HD2	2.13	0.49
1:V:252:ASN:OD1	1:W:42:ASN:ND2	2.46	0.49
1:X:453:ALA:O	1:X:472:PRO:HD2	2.13	0.49
1:Y:107:THR:CG2	1:Y:209:TYR:HD2	2.25	0.49
1:Y:47:PHE:HE2	1:Y:128:GLN:HB3	1.78	0.49
1:Y:120:TRP:CZ3	1:Y:516:MET:HG2	2.48	0.49
1:Z:107:THR:CG2	1:Z:209:TYR:HD2	2.25	0.49
1:Z:223:GLN:HB3	1:Z:226:ARG:HB3	1.94	0.49
1:Z:332:GLY:HA2	1:Z:353:GLN:NE2	2.26	0.49
1:Z:439:TYR:CE1	1:6:469:ALA:CB	126.60	0.49
1:Z:66:ILE:HD11	1:Z:206:LEU:HD22	1.95	0.49
1:O:100:SER:OG	1:O:100:SER:O	2.23	0.49
1:1:214:ASP:OD2	1:1:238:GLN:HB3	2.11	0.49
1:F:342:TYR:H	1:3:411:ASN:HD22	143.04	0.49
1:5:96:THR:HG21	1:5:221:ILE:CG1	2.43	0.49
1:7:120:TRP:CZ3	1:7:516:MET:HG2	2.48	0.49
1:K:246:PRO:CG	1:7:528:TRP:CB	2.65	0.49
1:A:379:TYR:CD2	1:A:392:GLU:HG3	2.44	0.49
1:C:47:PHE:HE2	1:C:128:GLN:HB3	1.78	0.49
1:D:66:ILE:HD11	1:D:206:LEU:HD22	1.95	0.49
1:E:106:GLU:HA	1:E:210:CYS:HB3	1.95	0.49
1:D:411:ASN:HD22	1:E:342:TYR:H	96.23	0.49
1:D:308:ILE:N	1:E:391:ARG:HH12	98.64	0.49
1:G:106:GLU:HA	1:G:210:CYS:HB3	1.95	0.49
1:G:453:ALA:O	1:G:472:PRO:HD2	2.13	0.49
1:H:42:ASN:ND2	1:I:252:ASN:OD1	2.46	0.49
1:H:453:ALA:O	1:H:472:PRO:HD2	2.13	0.49
1:H:66:ILE:HD11	1:H:206:LEU:HD22	1.95	0.49
1:B:411:ASN:HD22	1:J:342:TYR:H	1.61	0.49
1:I:411:ASN:HD22	1:J:342:TYR:H	65.94	0.49
1:J:411:ASN:HD22	1:2:342:TYR:H	139.49	0.49
1:J:42:ASN:ND2	1:K:252:ASN:OD1	61.44	0.49
1:K:127:GLN:HE21	1:R:533:LEU:HD21	171.00	0.49
1:K:47:PHE:HE2	1:K:128:GLN:HB3	1.78	0.49
1:K:391:ARG:HH12	1:7:308:ILE:N	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:127:GLN:HE21	1:L:533:LEU:HD21	1.78	0.49
1:M:390:MET:HA	1:M:391:ARG:HD2	1.94	0.49
1:L:308:ILE:N	1:M:391:ARG:HH12	106.90	0.49
1:C:342:TYR:H	1:M:411:ASN:HD22	1.61	0.49
1:N:127:GLN:HE21	1:Y:533:LEU:HD21	197.01	0.49
1:N:223:GLN:HB3	1:N:226:ARG:HB3	1.94	0.49
1:N:252:ASN:OD1	1:S:42:ASN:ND2	107.93	0.49
1:N:379:TYR:CD2	1:N:392:GLU:HG3	2.44	0.49
1:N:411:ASN:HD22	1:O:342:TYR:H	73.93	0.49
1:N:411:ASN:HD22	1:P:342:TYR:H	1.60	0.49
1:O:47:PHE:HE2	1:O:128:GLN:HB3	1.78	0.49
1:N:289:CYS:HA	1:O:212:HIS:CE1	52.16	0.49
1:O:308:ILE:N	1:P:391:ARG:HH12	88.88	0.49
1:O:453:ALA:O	1:O:472:PRO:HD2	2.13	0.49
1:P:223:GLN:HB3	1:P:226:ARG:HB3	1.94	0.49
1:Q:96:THR:HG21	1:Q:221:ILE:CG1	2.43	0.49
1:R:47:PHE:HE2	1:R:128:GLN:HB3	1.78	0.49
1:R:107:THR:CG2	1:R:209:TYR:HD2	2.25	0.49
1:Q:411:ASN:HD22	1:R:342:TYR:H	73.93	0.49
1:R:411:ASN:HD22	1:S:342:TYR:H	1.61	0.49
1:R:419:ASP:OD1	1:R:420:HIS:N	2.46	0.49
1:S:100:SER:OG	1:S:100:SER:O	2.23	0.49
1:S:114:ALA:HB1	1:S:120:TRP:NE1	2.28	0.49
1:T:252:ASN:OD1	1:X:42:ASN:ND2	112.41	0.49
1:T:59:HIS:HE1	1:T:515:LYS:HZ1	1.60	0.49
1:F:323:SER:HG	1:T:98:ASN:HA	161.69	0.49
1:V:308:ILE:N	1:4:391:ARG:HH12	2.10	0.49
1:V:453:ALA:O	1:V:472:PRO:HD2	2.13	0.49
1:V:59:HIS:HE1	1:V:515:LYS:HZ1	1.67	0.49
1:W:109:TRP:CZ3	1:W:485:LYS:HB2	2.48	0.49
1:X:120:TRP:CZ3	1:X:516:MET:HG2	2.48	0.49
1:X:66:ILE:HD11	1:X:206:LEU:HD22	1.95	0.49
1:Y:66:ILE:HD11	1:Y:206:LEU:HD22	1.95	0.49
1:Y:252:ASN:OD1	1:7:42:ASN:ND2	126.28	0.49
1:Z:120:TRP:CZ3	1:Z:516:MET:HG2	2.48	0.49
1:Z:96:THR:HG21	1:Z:221:ILE:CG1	2.43	0.49
1:Z:56:ILE:HB	1:Z:518:PHE:HB2	1.95	0.49
1:0:107:THR:CG2	1:0:209:TYR:HD2	2.25	0.49
1:1:225:ASP:HB2	1:1:226:ARG:CB	2.36	0.49
1:2:114:ALA:HB1	1:2:120:TRP:NE1	2.28	0.49
1:J:289:CYS:HA	1:2:212:HIS:CE1	122.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:114:ALA:HB1	1:6:120:TRP:NE1	2.28	0.49
1:6:107:THR:CG2	1:6:209:TYR:HD2	2.25	0.49
1:A:106:GLU:HA	1:A:210:CYS:HB3	1.95	0.49
1:A:134:ARG:O	1:A:276:LEU:N	2.32	0.49
1:A:59:HIS:HE1	1:A:515:LYS:HZ1	1.70	0.49
1:C:56:ILE:HB	1:C:518:PHE:HB2	1.95	0.49
1:D:96:THR:HG21	1:D:221:ILE:CG1	2.43	0.49
1:E:245:THR:HA	1:E:246:PRO:HD2	1.50	0.49
1:E:338:TRP:O	1:F:414:GLN:N	2.37	0.49
1:D:252:ASN:OD1	1:E:42:ASN:ND2	2.46	0.49
1:E:56:ILE:HB	1:E:518:PHE:HB2	1.95	0.49
1:F:212:HIS:CE1	1:3:289:CYS:HA	148.27	0.49
1:F:419:ASP:OD1	1:F:420:HIS:N	2.46	0.49
1:G:42:ASN:ND2	1:M:252:ASN:OD1	151.91	0.49
1:G:439:TYR:CE1	1:I:469:ALA:CB	2.86	0.49
1:I:114:ALA:HB1	1:I:120:TRP:NE1	2.28	0.49
1:I:56:ILE:HB	1:I:518:PHE:HB2	1.95	0.49
1:I:59:HIS:HE1	1:I:515:LYS:HZ1	1.65	0.49
1:I:66:ILE:HD11	1:I:206:LEU:HD22	1.95	0.49
1:J:114:ALA:HB1	1:J:120:TRP:NE1	2.28	0.49
1:I:406:ASP:CG	1:J:341:HIS:HE2	60.83	0.49
1:K:66:ILE:HD11	1:K:206:LEU:HD22	1.95	0.49
1:L:453:ALA:O	1:L:472:PRO:HD2	2.13	0.49
1:M:47:PHE:HE2	1:M:128:GLN:HB3	1.78	0.49
1:M:252:ASN:OD1	1:2:42:ASN:ND2	2.46	0.49
1:M:42:ASN:ND2	1:2:252:ASN:OD1	52.53	0.49
1:M:453:ALA:O	1:M:472:PRO:HD2	2.13	0.49
1:N:106:GLU:HA	1:N:210:CYS:HB3	1.95	0.49
1:N:419:ASP:OD1	1:N:420:HIS:N	2.46	0.49
1:P:101:TYR:CZ	1:P:236:GLY:HA3	2.44	0.49
1:N:342:TYR:H	1:P:411:ASN:HD22	25.30	0.49
1:P:453:ALA:O	1:P:472:PRO:HD2	2.13	0.49
1:P:109:TRP:CZ3	1:P:485:LYS:HB2	2.48	0.49
1:R:252:ASN:OD1	1:V:42:ASN:ND2	2.46	0.49
1:Q:127:GLN:HE21	1:R:533:LEU:HD21	1.78	0.49
1:S:225:ASP:HB2	1:S:226:ARG:CB	2.36	0.49
1:S:431:SER:HG	1:S:433:HIS:CD2	2.47	0.49
1:S:453:ALA:O	1:S:472:PRO:HD2	2.13	0.49
1:S:56:ILE:HB	1:S:518:PHE:HB2	1.95	0.49
1:S:96:THR:HG21	1:S:221:ILE:CG1	2.43	0.49
1:T:114:ALA:HB1	1:T:120:TRP:NE1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:66:ILE:HD11	1:T:206:LEU:HD22	1.95	0.49
1:T:411:ASN:HD22	1:3:342:TYR:H	1.61	0.49
1:U:114:ALA:HB1	1:U:120:TRP:NE1	2.28	0.49
1:U:332:GLY:HA2	1:U:353:GLN:NE2	2.26	0.49
1:V:66:ILE:HD11	1:V:206:LEU:HD22	1.95	0.49
1:V:225:ASP:HB2	1:V:226:ARG:CB	2.36	0.49
1:W:107:THR:CG2	1:W:209:TYR:HD2	2.25	0.49
1:W:223:GLN:HB3	1:W:226:ARG:HB3	1.94	0.49
1:V:391:ARG:HH12	1:X:308:ILE:N	2.10	0.49
1:Y:332:GLY:HA2	1:Y:353:GLN:NE2	2.26	0.49
1:Y:419:ASP:OD1	1:Y:420:HIS:N	2.46	0.49
1:Z:114:ALA:HB1	1:Z:120:TRP:NE1	2.28	0.49
1:Z:308:ILE:N	1:6:391:ARG:HH12	161.62	0.49
1:Z:419:ASP:OD1	1:Z:420:HIS:N	2.46	0.49
1:J:42:ASN:ND2	1:0:252:ASN:OD1	2.46	0.49
1:0:364:VAL:HG21	1:0:539:ARG:HD3	1.93	0.49
1:2:419:ASP:OD1	1:2:420:HIS:N	2.46	0.49
1:2:120:TRP:CZ3	1:2:516:MET:HG2	2.48	0.49
1:4:120:TRP:CZ3	1:4:516:MET:HG2	2.48	0.49
1:4:66:ILE:HD11	1:4:206:LEU:HD22	1.95	0.49
1:7:47:PHE:HE2	1:7:128:GLN:HB3	1.78	0.49
1:A:257:ARG:CG	1:E:37:SER:CB	24.57	0.49
1:A:419:ASP:OD1	1:A:420:HIS:N	2.46	0.49
1:A:66:ILE:HD11	1:A:206:LEU:HD22	1.95	0.49
1:B:289:CYS:HA	1:J:212:HIS:CE1	2.47	0.49
1:E:391:ARG:HH12	1:F:308:ILE:N	2.10	0.49
1:F:246:PRO:HG3	1:3:528:TRP:HB3	131.10	0.49
1:I:134:ARG:O	1:I:276:LEU:N	2.32	0.49
1:I:98:ASN:HA	1:2:323:SER:HG	181.91	0.49
1:K:106:GLU:HA	1:K:210:CYS:HB3	1.95	0.49
1:K:411:ASN:HD22	1:L:342:TYR:H	65.94	0.49
1:L:419:ASP:OD1	1:L:420:HIS:N	2.46	0.49
1:L:439:TYR:CE1	1:M:469:ALA:CB	88.25	0.49
1:G:127:GLN:HE21	1:L:533:LEU:HD21	121.40	0.49
1:L:56:ILE:HB	1:L:518:PHE:HB2	1.95	0.49
1:N:533:LEU:HD21	1:O:127:GLN:HE21	1.78	0.49
1:E:533:LEU:HD21	1:P:127:GLN:HE21	1.77	0.49
1:O:414:GLN:N	1:P:338:TRP:O	85.61	0.49
1:P:56:ILE:HB	1:P:518:PHE:HB2	1.95	0.49
1:Q:134:ARG:O	1:Q:276:LEU:N	2.32	0.49
1:Q:66:ILE:HD11	1:Q:206:LEU:HD22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:342:TYR:H	1:Q:411:ASN:HD22	1.61	0.49
1:Q:419:ASP:OD1	1:Q:420:HIS:N	2.46	0.49
1:Q:453:ALA:O	1:Q:472:PRO:HD2	2.13	0.49
1:R:106:GLU:HA	1:R:210:CYS:HB3	1.95	0.49
1:R:120:TRP:CZ3	1:R:516:MET:HG2	2.48	0.49
1:S:106:GLU:HA	1:S:210:CYS:HB3	1.95	0.49
1:T:453:ALA:O	1:T:472:PRO:HD2	2.13	0.49
1:T:56:ILE:HB	1:T:518:PHE:HB2	1.95	0.49
1:U:106:GLU:HA	1:U:210:CYS:HB3	1.95	0.49
1:U:419:ASP:OD1	1:U:420:HIS:N	2.46	0.49
1:V:47:PHE:HE2	1:V:128:GLN:HB3	1.78	0.49
1:V:407:TRP:HE3	1:V:410:LYS:HG2	1.77	0.49
1:W:106:GLU:HA	1:W:210:CYS:HB3	1.95	0.49
1:W:96:THR:HG21	1:W:221:ILE:CG1	2.43	0.49
1:W:453:ALA:O	1:W:472:PRO:HD2	2.13	0.49
1:X:107:THR:CG2	1:X:209:TYR:HD2	2.25	0.49
1:Y:178:GLN:HE21	1:Y:262:TRP:HH2	1.60	0.49
1:Z:225:ASP:HB2	1:Z:226:ARG:CB	2.36	0.49
1:Z:178:GLN:HE21	1:Z:262:TRP:HH2	1.60	0.49
1:Y:127:GLN:HE21	1:Z:533:LEU:HD21	1.78	0.49
1:1:178:GLN:HE21	1:1:262:TRP:HH2	1.60	0.48
1:I:342:TYR:H	1:2:411:ASN:HD22	191.36	0.48
1:U:42:ASN:ND2	1:4:252:ASN:OD1	2.46	0.48
1:4:56:ILE:HB	1:4:518:PHE:HB2	1.95	0.48
1:5:419:ASP:OD1	1:5:420:HIS:N	2.46	0.48
1:0:308:ILE:N	1:7:391:ARG:HH12	2.10	0.48
1:7:66:ILE:HD11	1:7:206:LEU:HD22	1.95	0.48
1:A:114:ALA:HB1	1:A:120:TRP:NE1	2.28	0.48
1:A:289:CYS:HA	1:5:212:HIS:CE1	161.67	0.48
1:A:56:ILE:HB	1:A:518:PHE:HB2	1.95	0.48
1:B:66:ILE:HD11	1:B:206:LEU:HD22	1.95	0.48
1:B:419:ASP:OD1	1:B:420:HIS:N	2.46	0.48
1:B:59:HIS:HE1	1:B:515:LYS:HZ1	1.61	0.48
1:B:56:ILE:HB	1:B:518:PHE:HB2	1.95	0.48
1:D:47:PHE:HE2	1:D:128:GLN:HB3	1.78	0.48
1:C:192:TYR:CD1	1:E:310:CYS:HB3	120.09	0.48
1:F:411:ASN:HD22	1:T:342:TYR:H	156.72	0.48
1:D:252:ASN:OD1	1:F:42:ASN:ND2	68.11	0.48
1:G:47:PHE:HE2	1:G:128:GLN:HB3	1.78	0.48
1:G:225:ASP:HB2	1:G:226:ARG:CB	2.36	0.48
1:H:47:PHE:HE2	1:H:128:GLN:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:106:GLU:HA	1:I:210:CYS:HB3	1.95	0.48
1:I:407:TRP:HE3	1:I:410:LYS:HG2	1.77	0.48
1:I:453:ALA:O	1:I:472:PRO:HD2	2.13	0.48
1:I:96:THR:HG21	1:I:221:ILE:CG1	2.43	0.48
1:J:127:GLN:HE21	1:M:533:LEU:HD21	121.40	0.48
1:J:419:ASP:OD1	1:J:420:HIS:N	2.46	0.48
1:L:106:GLU:HA	1:L:210:CYS:HB3	1.95	0.48
1:L:42:ASN:ND2	1:1:252:ASN:OD1	2.46	0.48
1:H:252:ASN:OD1	1:L:42:ASN:ND2	112.41	0.48
1:L:47:PHE:HE2	1:L:128:GLN:HB3	1.78	0.48
1:M:225:ASP:HB2	1:M:226:ARG:CB	2.36	0.48
1:C:391:ARG:HH12	1:M:308:ILE:N	2.10	0.48
1:M:332:GLY:HA2	1:M:353:GLN:NE2	2.26	0.48
1:P:114:ALA:HB1	1:P:120:TRP:NE1	2.28	0.48
1:P:107:THR:CG2	1:P:209:TYR:HD2	2.25	0.48
1:P:379:TYR:CD2	1:P:392:GLU:HG3	2.44	0.48
1:R:192:TYR:CD1	1:U:310:CYS:HB3	2.48	0.48
1:P:533:LEU:HD21	1:S:127:GLN:HE21	102.62	0.48
1:S:419:ASP:OD1	1:S:420:HIS:N	2.46	0.48
1:T:134:ARG:O	1:T:276:LEU:N	2.32	0.48
1:T:106:GLU:HA	1:T:210:CYS:HB3	1.95	0.48
1:T:120:TRP:CZ3	1:T:516:MET:HG2	2.48	0.48
1:T:96:THR:HG21	1:T:221:ILE:CG1	2.43	0.48
1:V:106:GLU:HA	1:V:210:CYS:HB3	1.95	0.48
1:W:407:TRP:HE3	1:W:410:LYS:HG2	1.77	0.48
1:Y:114:ALA:HB1	1:Y:120:TRP:NE1	2.28	0.48
1:Y:192:TYR:CD1	1:6:310:CYS:HB3	164.49	0.48
1:Y:106:GLU:HA	1:Y:210:CYS:HB3	1.95	0.48
1:Y:533:LEU:HD21	1:Z:127:GLN:HE21	1.78	0.48
1:0:419:ASP:OD1	1:0:420:HIS:N	2.46	0.48
1:1:419:ASP:OD1	1:1:420:HIS:N	2.46	0.48
1:2:156:THR:O	1:2:163:THR:OG1	2.25	0.48
1:2:246:PRO:O	1:2:246:PRO:HG2	2.14	0.48
1:2:407:TRP:HE3	1:2:410:LYS:HG2	1.77	0.48
1:3:178:GLN:HE21	1:3:262:TRP:HH2	1.60	0.48
1:4:341:HIS:CE1	1:4:343:SER:HB2	2.49	0.48
1:4:390:MET:HA	1:4:391:ARG:HD2	1.94	0.48
1:5:120:TRP:CZ3	1:5:516:MET:HG2	2.48	0.48
1:5:56:ILE:HB	1:5:518:PHE:HB2	1.95	0.48
1:6:106:GLU:HA	1:6:210:CYS:HB3	1.95	0.48
1:7:106:GLU:HA	1:7:210:CYS:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:407:TRP:HE3	1:7:410:LYS:HG2	1.77	0.48
1:7:56:ILE:HB	1:7:518:PHE:HB2	1.95	0.48
1:A:453:ALA:O	1:A:472:PRO:HD2	2.13	0.48
1:C:310:CYS:HB3	1:1:192:TYR:CD1	2.49	0.48
1:C:419:ASP:OD1	1:C:420:HIS:N	2.46	0.48
1:D:342:TYR:H	1:P:411:ASN:HD22	1.60	0.48
1:F:106:GLU:HA	1:F:210:CYS:HB3	1.95	0.48
1:F:223:GLN:HB3	1:F:226:ARG:HB3	1.94	0.48
1:F:178:GLN:HE21	1:F:262:TRP:HH2	1.60	0.48
1:G:342:TYR:H	1:O:411:ASN:HD22	188.66	0.48
1:G:419:ASP:OD1	1:G:420:HIS:N	2.46	0.48
1:G:439:TYR:CE1	1:H:469:ALA:CB	64.26	0.48
1:H:120:TRP:CZ3	1:H:516:MET:HG2	2.48	0.48
1:G:411:ASN:HD22	1:H:342:TYR:H	73.93	0.48
1:I:120:TRP:CZ3	1:I:516:MET:HG2	2.48	0.48
1:J:178:GLN:HE21	1:J:262:TRP:HH2	1.60	0.48
1:I:42:ASN:ND2	1:J:252:ASN:OD1	2.46	0.48
1:K:56:ILE:HB	1:K:518:PHE:HB2	1.95	0.48
1:G:252:ASN:OD1	1:N:42:ASN:ND2	126.72	0.48
1:O:106:GLU:HA	1:O:210:CYS:HB3	1.95	0.48
1:P:47:PHE:HE2	1:P:128:GLN:HB3	1.78	0.48
1:R:114:ALA:HB1	1:R:120:TRP:NE1	2.28	0.48
1:L:252:ASN:OD1	1:R:42:ASN:ND2	143.63	0.48
1:R:439:TYR:CE1	1:S:469:ALA:CB	2.87	0.48
1:R:66:ILE:HD11	1:R:206:LEU:HD22	1.95	0.48
1:T:47:PHE:HE2	1:T:128:GLN:HB3	1.78	0.48
1:T:469:ALA:CB	1:V:439:TYR:CE1	104.82	0.48
1:V:528:TRP:CB	1:4:246:PRO:CG	2.65	0.48
1:X:114:ALA:HB1	1:X:120:TRP:NE1	2.28	0.48
1:V:533:LEU:HD21	1:X:127:GLN:HE21	67.19	0.48
1:X:419:ASP:OD1	1:X:420:HIS:N	2.46	0.48
1:Y:225:ASP:HB2	1:Y:226:ARG:CB	2.36	0.48
1:Y:379:TYR:CD2	1:Y:392:GLU:HG3	2.44	0.48
1:Y:56:ILE:HB	1:Y:518:PHE:HB2	1.95	0.48
1:Z:47:PHE:HE2	1:Z:128:GLN:HB3	1.78	0.48
1:0:246:PRO:O	1:0:246:PRO:HG2	2.14	0.48
1:0:341:HIS:CE1	1:0:343:SER:HB2	2.49	0.48
1:3:66:ILE:HD11	1:3:206:LEU:HD22	1.95	0.48
1:4:453:ALA:O	1:4:472:PRO:HD2	2.13	0.48
1:A:406:ASP:CG	1:5:341:HIS:HE2	185.11	0.48
1:6:419:ASP:OD1	1:6:420:HIS:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:109:TRP:CZ3	1:7:485:LYS:HB2	2.48	0.48
1:A:246:PRO:O	1:A:246:PRO:HG2	2.14	0.48
1:A:341:HIS:CE1	1:A:343:SER:HB2	2.49	0.48
1:B:106:GLU:HA	1:B:210:CYS:HB3	1.95	0.48
1:B:223:GLN:HB3	1:B:226:ARG:HB3	1.94	0.48
1:C:120:TRP:CZ3	1:C:516:MET:HG2	2.48	0.48
1:C:225:ASP:HB2	1:C:226:ARG:CB	2.36	0.48
1:D:419:ASP:OD1	1:D:420:HIS:N	2.46	0.48
1:E:341:HIS:CE1	1:E:343:SER:HB2	2.49	0.48
1:E:419:ASP:OD1	1:E:420:HIS:N	2.46	0.48
1:F:246:PRO:HG2	1:F:246:PRO:O	2.14	0.48
1:F:341:HIS:CE1	1:F:343:SER:HB2	2.49	0.48
1:C:127:GLN:HE21	1:F:533:LEU:HD21	97.25	0.48
1:G:66:ILE:HD11	1:G:206:LEU:HD22	1.95	0.48
1:H:114:ALA:HB1	1:H:120:TRP:NE1	2.28	0.48
1:H:107:THR:CG2	1:H:209:TYR:HD2	2.25	0.48
1:H:96:THR:HG21	1:H:221:ILE:CG1	2.43	0.48
1:B:406:ASP:CG	1:J:341:HIS:HE2	2.16	0.48
1:J:56:ILE:HB	1:J:518:PHE:HB2	1.95	0.48
1:K:341:HIS:CE1	1:K:343:SER:HB2	2.49	0.48
1:K:453:ALA:O	1:K:472:PRO:HD2	2.13	0.48
1:K:533:LEU:HD21	1:R:127:GLN:HE21	165.79	0.48
1:L:66:ILE:HD11	1:L:206:LEU:HD22	1.95	0.48
1:L:341:HIS:CE1	1:L:343:SER:HB2	2.49	0.48
1:M:106:GLU:HA	1:M:210:CYS:HB3	1.95	0.48
1:M:107:THR:CG2	1:M:209:TYR:HD2	2.25	0.48
1:D:533:LEU:HD21	1:M:127:GLN:HE21	1.77	0.48
1:M:246:PRO:O	1:M:246:PRO:HG2	2.14	0.48
1:L:411:ASN:HD22	1:M:342:TYR:H	89.89	0.48
1:N:191:PHE:CD1	1:N:191:PHE:N	2.81	0.48
1:D:310:CYS:HB3	1:N:192:TYR:CD1	2.48	0.48
1:N:66:ILE:HD11	1:N:206:LEU:HD22	1.95	0.48
1:N:439:TYR:CE1	1:P:469:ALA:CB	2.86	0.48
1:O:419:ASP:OD1	1:O:420:HIS:N	2.46	0.48
1:P:96:THR:HG21	1:P:221:ILE:CG1	2.43	0.48
1:P:246:PRO:O	1:P:246:PRO:HG2	2.14	0.48
1:P:419:ASP:OD1	1:P:420:HIS:N	2.46	0.48
1:R:453:ALA:O	1:R:472:PRO:HD2	2.13	0.48
1:S:47:PHE:HE2	1:S:128:GLN:HB3	1.78	0.48
1:S:379:TYR:CD2	1:S:392:GLU:HG3	2.44	0.48
1:T:407:TRP:HE3	1:T:410:LYS:HG2	1.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:246:PRO:HG2	1:U:246:PRO:O	2.14	0.48
1:T:406:ASP:CG	1:U:341:HIS:HE2	60.83	0.48
1:V:42:ASN:ND2	1:W:252:ASN:OD1	52.53	0.48
1:W:156:THR:O	1:W:163:THR:OG1	2.25	0.48
1:X:246:PRO:HG2	1:X:246:PRO:O	2.14	0.48
1:X:252:ASN:OD1	1:5:42:ASN:ND2	2.46	0.48
1:X:252:ASN:OD1	1:Y:42:ASN:ND2	52.53	0.48
1:X:341:HIS:CE1	1:X:343:SER:HB2	2.49	0.48
1:N:533:LEU:HD21	1:Y:127:GLN:HE21	197.01	0.48
1:Y:341:HIS:CE1	1:Y:343:SER:HB2	2.49	0.48
1:Y:411:ASN:HD22	1:Z:342:TYR:H	73.93	0.48
1:1:127:GLN:HE21	1:2:533:LEU:HD21	1.78	0.48
1:1:191:PHE:CD1	1:1:191:PHE:N	2.81	0.48
1:1:120:TRP:CZ3	1:1:516:MET:HG2	2.48	0.48
1:2:191:PHE:N	1:2:191:PHE:CD1	2.81	0.48
1:4:106:GLU:HA	1:4:210:CYS:HB3	1.95	0.48
1:5:341:HIS:CE1	1:5:343:SER:HB2	2.49	0.48
1:A:341:HIS:HE2	1:I:406:ASP:CG	2.16	0.48
1:A:391:ARG:HH12	1:I:308:ILE:N	2.10	0.48
1:B:134:ARG:O	1:B:276:LEU:N	2.32	0.48
1:B:246:PRO:HG2	1:B:246:PRO:O	2.14	0.48
1:B:341:HIS:CE1	1:B:343:SER:HB2	2.49	0.48
1:B:109:TRP:CZ3	1:B:485:LYS:HB2	2.48	0.48
1:D:192:TYR:CD1	1:P:310:CYS:HB3	2.49	0.48
1:D:107:THR:CG2	1:D:209:TYR:HD2	2.25	0.48
1:D:257:ARG:N	1:F:37:SER:HG	87.76	0.48
1:C:252:ASN:OD1	1:D:42:ASN:ND2	2.46	0.48
1:E:246:PRO:O	1:E:246:PRO:HG2	2.14	0.48
1:F:191:PHE:N	1:F:191:PHE:CD1	2.81	0.48
1:E:192:TYR:CD1	1:F:310:CYS:HB3	2.49	0.48
1:G:42:ASN:ND2	1:W:252:ASN:OD1	2.46	0.48
1:G:533:LEU:HD21	1:H:127:GLN:HE21	1.78	0.48
1:H:106:GLU:HA	1:H:210:CYS:HB3	1.95	0.48
1:H:419:ASP:OD1	1:H:420:HIS:N	2.46	0.48
1:I:47:PHE:HE2	1:I:128:GLN:HB3	1.78	0.48
1:J:528:TRP:CB	1:2:246:PRO:CG	130.97	0.48
1:K:252:ASN:OD1	1:6:42:ASN:ND2	2.46	0.48
1:K:257:ARG:CG	1:6:37:SER:CB	2.72	0.48
1:L:492:ASP:OD1	1:L:493:VAL:N	2.44	0.48
1:M:66:ILE:HD11	1:M:206:LEU:HD22	1.95	0.48
1:M:419:ASP:OD1	1:M:420:HIS:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:310:CYS:HB3	1:P:192:TYR:CD1	2.49	0.48
1:N:453:ALA:O	1:N:472:PRO:HD2	2.13	0.48
1:O:341:HIS:CE1	1:O:343:SER:HB2	2.49	0.48
1:N:127:GLN:HE21	1:O:533:LEU:HD21	1.78	0.48
1:P:341:HIS:CE1	1:P:343:SER:HB2	2.49	0.48
1:Q:191:PHE:CD1	1:Q:191:PHE:N	2.81	0.48
1:Q:192:TYR:CD1	1:S:310:CYS:HB3	96.31	0.48
1:D:127:GLN:HE21	1:Q:533:LEU:HD21	120.49	0.48
1:Q:533:LEU:HD21	1:R:127:GLN:HE21	1.78	0.48
1:Q:310:CYS:HB3	1:R:192:TYR:CD1	52.43	0.48
1:R:341:HIS:CE1	1:R:343:SER:HB2	2.49	0.48
1:R:310:CYS:HB3	1:S:192:TYR:CD1	2.49	0.48
1:S:66:ILE:HD11	1:S:206:LEU:HD22	1.95	0.48
1:S:341:HIS:CE1	1:S:343:SER:HB2	2.49	0.48
1:Q:342:TYR:H	1:S:411:ASN:HD22	96.23	0.48
1:U:127:GLN:HE21	1:V:533:LEU:HD21	1.77	0.48
1:U:66:ILE:HD11	1:U:206:LEU:HD22	1.95	0.48
1:V:109:TRP:CZ3	1:V:485:LYS:HB2	2.48	0.48
1:V:56:ILE:HB	1:V:518:PHE:HB2	1.95	0.48
1:W:114:ALA:HB1	1:W:120:TRP:NE1	2.28	0.48
1:W:246:PRO:HG2	1:W:246:PRO:O	2.14	0.48
1:W:56:ILE:HB	1:W:518:PHE:HB2	1.95	0.48
1:O:252:ASN:OD1	1:Y:42:ASN:ND2	163.51	0.48
1:Z:106:GLU:HA	1:Z:210:CYS:HB3	1.95	0.48
1:H:252:ASN:OD1	1:Z:42:ASN:ND2	2.45	0.48
1:I:252:ASN:OD1	1:1:42:ASN:ND2	126.28	0.48
1:2:223:GLN:HB3	1:2:226:ARG:HB3	1.94	0.48
1:3:47:PHE:HE2	1:3:128:GLN:HB3	1.78	0.48
1:4:178:GLN:HE21	1:4:262:TRP:HH2	1.60	0.48
1:V:406:ASP:CG	1:4:341:HIS:HE2	2.16	0.48
1:6:298:GLU:HA	1:6:299:GLY:HA2	1.56	0.48
1:6:56:ILE:HB	1:6:518:PHE:HB2	1.95	0.48
1:A:101:TYR:HD2	1:A:101:TYR:O	1.97	0.48
1:A:191:PHE:N	1:A:191:PHE:CD1	2.81	0.48
1:A:109:TRP:CZ3	1:A:485:LYS:HB2	2.48	0.48
1:B:101:TYR:O	1:B:101:TYR:HD2	1.97	0.48
1:B:257:ARG:N	1:4:37:SER:HG	168.05	0.48
1:C:191:PHE:N	1:C:191:PHE:CD1	2.81	0.48
1:C:246:PRO:O	1:C:246:PRO:HG2	2.14	0.48
1:C:66:ILE:HD11	1:C:206:LEU:HD22	1.95	0.48
1:D:178:GLN:HE21	1:D:262:TRP:HH2	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:127:GLN:HE21	1:P:533:LEU:HD21	1.77	0.48
1:A:65:HIS:NE2	1:E:492:ASP:O	2.43	0.48
1:F:156:THR:O	1:F:163:THR:OG1	2.25	0.48
1:F:192:TYR:CD1	1:Q:310:CYS:HB3	2.49	0.48
1:F:107:THR:CG2	1:F:209:TYR:HD2	2.25	0.48
1:F:252:ASN:OD1	1:R:42:ASN:ND2	2.46	0.48
1:H:246:PRO:HG2	1:H:246:PRO:O	2.14	0.48
1:H:411:ASN:HD22	1:W:342:TYR:H	1.60	0.48
1:I:101:TYR:O	1:I:101:TYR:HD2	1.97	0.48
1:I:42:ASN:ND2	1:6:252:ASN:OD1	109.86	0.48
1:J:246:PRO:O	1:J:246:PRO:HG2	2.14	0.48
1:J:439:TYR:CE1	1:L:469:ALA:CB	2.86	0.48
1:K:192:TYR:CD1	1:7:310:CYS:HB3	2.49	0.48
1:K:341:HIS:HE2	1:7:406:ASP:CG	2.16	0.48
1:K:59:HIS:HE1	1:K:515:LYS:HZ1	1.61	0.48
1:J:310:CYS:HB3	1:L:192:TYR:CD1	2.48	0.48
1:M:178:GLN:HE21	1:M:262:TRP:HH2	1.60	0.48
1:M:257:ARG:N	1:2:37:SER:HG	2.08	0.48
1:N:47:PHE:HE2	1:N:128:GLN:HB3	1.78	0.48
1:N:192:TYR:CD1	1:P:310:CYS:HB3	50.61	0.48
1:N:257:ARG:CG	1:S:37:SER:CB	101.41	0.48
1:O:127:GLN:HE21	1:U:533:LEU:HD21	143.13	0.48
1:H:310:CYS:HB3	1:O:192:TYR:CD1	183.75	0.48
1:N:310:CYS:HB3	1:O:192:TYR:CD1	52.43	0.48
1:O:223:GLN:HB3	1:O:226:ARG:HB3	1.94	0.48
1:O:310:CYS:HB3	1:P:192:TYR:CD1	77.41	0.48
1:P:66:ILE:HD11	1:P:206:LEU:HD22	1.95	0.48
1:Q:47:PHE:HE2	1:Q:128:GLN:HB3	1.78	0.48
1:T:101:TYR:HD2	1:T:101:TYR:O	1.97	0.48
1:C:42:ASN:ND2	1:T:252:ASN:OD1	165.04	0.48
1:T:379:TYR:CD2	1:T:392:GLU:HG3	2.44	0.48
1:U:191:PHE:N	1:U:191:PHE:CD1	2.81	0.48
1:T:310:CYS:HB3	1:U:192:TYR:CD1	77.42	0.48
1:T:37:SER:CB	1:U:257:ARG:CG	2.73	0.48
1:V:101:TYR:O	1:V:101:TYR:HD2	1.97	0.48
1:V:101:TYR:CZ	1:V:236:GLY:HA3	2.44	0.48
1:V:419:ASP:OD1	1:V:420:HIS:N	2.46	0.48
1:W:47:PHE:HE2	1:W:128:GLN:HB3	1.78	0.48
1:W:310:CYS:HB3	1:Z:192:TYR:CD1	66.93	0.48
1:X:96:THR:HG21	1:X:221:ILE:CG1	2.43	0.48
1:Y:453:ALA:O	1:Y:472:PRO:HD2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:100:SER:OG	1:1:100:SER:O	2.23	0.48
1:1:47:PHE:HE2	1:1:128:GLN:HB3	1.78	0.48
1:1:341:HIS:CE1	1:1:343:SER:HB2	2.49	0.48
1:1:453:ALA:O	1:1:472:PRO:HD2	2.13	0.48
1:1:66:ILE:HD11	1:1:206:LEU:HD22	1.95	0.48
1:2:178:GLN:HE21	1:2:262:TRP:HH2	1.60	0.48
1:2:66:ILE:HD11	1:2:206:LEU:HD22	1.95	0.48
1:U:37:SER:CB	1:4:257:ARG:CG	2.72	0.48
1:4:419:ASP:OD1	1:4:420:HIS:N	2.46	0.48
1:5:246:PRO:HG2	1:5:246:PRO:O	2.14	0.48
1:A:323:SER:HG	1:5:98:ASN:HA	174.44	0.48
1:6:127:GLN:HE21	1:7:533:LEU:HD21	1.77	0.48
1:6:386:ASP:H	1:6:387:GLN:HA	1.79	0.48
1:7:96:THR:HG21	1:7:221:ILE:CG1	2.43	0.48
1:7:419:ASP:OD1	1:7:420:HIS:N	2.46	0.48
1:B:191:PHE:N	1:B:191:PHE:CD1	2.81	0.48
1:B:47:PHE:HE2	1:B:128:GLN:HB3	1.78	0.48
1:B:37:SER:HG	1:C:257:ARG:N	25.99	0.48
1:C:341:HIS:CE1	1:C:343:SER:HB2	2.49	0.48
1:D:109:TRP:CZ3	1:D:485:LYS:HB2	2.48	0.48
1:D:246:PRO:O	1:D:246:PRO:HG2	2.14	0.48
1:D:341:HIS:CE1	1:D:343:SER:HB2	2.49	0.48
1:D:379:TYR:CD2	1:D:392:GLU:HG3	2.44	0.48
1:E:453:ALA:O	1:E:472:PRO:HD2	2.13	0.48
1:F:386:ASP:H	1:F:387:GLN:HA	1.79	0.48
1:F:534:PRO:HD3	1:F:563:MET:HE1	1.95	0.48
1:G:101:TYR:O	1:G:101:TYR:HD2	1.97	0.48
1:G:341:HIS:CE1	1:G:343:SER:HB2	2.49	0.48
1:H:386:ASP:H	1:H:387:GLN:HA	1.79	0.48
1:I:246:PRO:O	1:I:246:PRO:HG2	2.14	0.48
1:J:106:GLU:HA	1:J:210:CYS:HB3	1.95	0.48
1:J:341:HIS:CE1	1:J:343:SER:HB2	2.49	0.48
1:B:323:SER:HG	1:J:98:ASN:HA	1.74	0.48
1:L:191:PHE:N	1:L:191:PHE:CD1	2.81	0.48
1:K:192:TYR:CD1	1:M:310:CYS:HB3	111.83	0.48
1:M:341:HIS:CE1	1:M:343:SER:HB2	2.49	0.48
1:M:386:ASP:H	1:M:387:GLN:HA	1.79	0.48
1:M:42:ASN:ND2	1:N:252:ASN:OD1	2.46	0.48
1:M:109:TRP:CZ3	1:M:485:LYS:HB2	2.48	0.48
1:N:101:TYR:O	1:N:101:TYR:HD2	1.97	0.48
1:O:191:PHE:N	1:O:191:PHE:CD1	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:386:ASP:H	1:O:387:GLN:HA	1.79	0.48
1:O:42:ASN:ND2	1:V:252:ASN:OD1	130.45	0.48
1:O:109:TRP:CZ3	1:O:485:LYS:HB2	2.48	0.48
1:O:56:ILE:HB	1:O:518:PHE:HB2	1.95	0.48
1:P:101:TYR:O	1:P:101:TYR:HD2	1.97	0.48
1:E:310:CYS:HB3	1:Q:192:TYR:CD1	2.48	0.48
1:E:252:ASN:OD1	1:Q:42:ASN:ND2	72.44	0.48
1:Q:56:ILE:HB	1:Q:518:PHE:HB2	1.95	0.48
1:T:246:PRO:HG2	1:T:246:PRO:O	2.14	0.48
1:U:56:ILE:HB	1:U:518:PHE:HB2	1.95	0.48
1:V:341:HIS:CE1	1:V:343:SER:HB2	2.49	0.48
1:W:342:TYR:H	1:X:411:ASN:HD22	73.93	0.48
1:X:106:GLU:HA	1:X:210:CYS:HB3	1.95	0.48
1:X:47:PHE:HE2	1:X:128:GLN:HB3	1.78	0.48
1:Z:386:ASP:H	1:Z:387:GLN:HA	1.79	0.48
1:Z:453:ALA:O	1:Z:472:PRO:HD2	2.13	0.48
1:0:178:GLN:HE21	1:0:262:TRP:HH2	1.60	0.48
1:C:411:ASN:HD22	1:1:342:TYR:H	1.61	0.48
1:1:533:LEU:HD21	1:2:127:GLN:HE21	1.77	0.48
1:4:386:ASP:H	1:4:387:GLN:HA	1.79	0.48
1:A:310:CYS:HB3	1:5:192:TYR:CD1	153.28	0.48
1:6:101:TYR:O	1:6:101:TYR:HD2	1.97	0.48
1:I:37:SER:CB	1:6:257:ARG:CG	99.50	0.48
1:6:341:HIS:CE1	1:6:343:SER:HB2	2.49	0.48
1:7:341:HIS:CE1	1:7:343:SER:HB2	2.49	0.48
1:C:453:ALA:O	1:C:472:PRO:HD2	2.13	0.48
1:D:42:ASN:ND2	1:R:252:ASN:OD1	126.28	0.48
1:F:56:ILE:HB	1:F:518:PHE:HB2	1.95	0.48
1:G:114:ALA:HB1	1:G:120:TRP:NE1	2.28	0.48
1:I:379:TYR:CD2	1:I:392:GLU:HG3	2.44	0.48
1:J:453:ALA:O	1:J:472:PRO:HD2	2.13	0.48
1:C:533:LEU:HD21	1:L:127:GLN:HE21	1.78	0.48
1:L:528:TRP:HB3	1:M:246:PRO:HG3	80.82	0.48
1:N:56:ILE:HB	1:N:518:PHE:HB2	1.95	0.48
1:P:127:GLN:HE21	1:S:533:LEU:HD21	103.19	0.48
1:Q:246:PRO:O	1:Q:246:PRO:HG2	2.14	0.48
1:Q:341:HIS:CE1	1:Q:343:SER:HB2	2.49	0.48
1:S:101:TYR:HD2	1:S:101:TYR:O	1.97	0.48
1:S:107:THR:CG2	1:S:209:TYR:HD2	2.25	0.48
1:T:42:ASN:ND2	1:U:252:ASN:OD1	2.46	0.48
1:U:101:TYR:O	1:U:101:TYR:HD2	1.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:341:HIS:CE1	1:U:343:SER:HB2	2.49	0.48
1:U:411:ASN:HD22	1:V:342:TYR:H	73.93	0.48
1:V:114:ALA:HB1	1:V:120:TRP:NE1	2.28	0.48
1:V:310:CYS:HB3	1:4:192:TYR:CD1	2.49	0.48
1:Y:101:TYR:HD2	1:Y:101:TYR:O	1.97	0.48
1:W:310:CYS:HB3	1:Y:192:TYR:CD1	2.48	0.48
1:Z:191:PHE:CD1	1:Z:191:PHE:N	2.81	0.48
1:0:47:PHE:HE2	1:0:128:GLN:HB3	1.78	0.48
1:0:56:ILE:HB	1:0:518:PHE:HB2	1.95	0.48
1:1:101:TYR:HD2	1:1:101:TYR:O	1.97	0.48
1:2:453:ALA:O	1:2:472:PRO:HD2	2.13	0.48
1:3:106:GLU:HA	1:3:210:CYS:HB3	1.95	0.48
1:F:192:TYR:CD1	1:3:310:CYS:HB3	159.08	0.48
1:4:101:TYR:HD2	1:4:101:TYR:O	1.97	0.48
1:6:246:PRO:HG2	1:6:246:PRO:O	2.14	0.48
1:7:101:TYR:O	1:7:101:TYR:HD2	1.97	0.48
1:B:257:ARG:CG	1:C:37:SER:CB	2.72	0.48
1:B:453:ALA:O	1:B:472:PRO:HD2	2.13	0.48
1:C:101:TYR:O	1:C:101:TYR:HD2	1.97	0.48
1:D:191:PHE:N	1:D:191:PHE:CD1	2.81	0.48
1:D:533:LEU:HD21	1:Q:127:GLN:HE21	120.49	0.48
1:E:66:ILE:HD11	1:E:206:LEU:HD22	1.95	0.48
1:E:386:ASP:H	1:E:387:GLN:HA	1.79	0.48
1:C:342:TYR:H	1:E:411:ASN:HD22	123.60	0.48
1:C:533:LEU:HD21	1:F:127:GLN:HE21	110.90	0.48
1:F:66:ILE:HD11	1:F:206:LEU:HD22	1.95	0.48
1:G:192:TYR:CD1	1:O:310:CYS:HB3	187.50	0.48
1:F:42:ASN:ND2	1:G:252:ASN:OD1	2.46	0.48
1:H:341:HIS:CE1	1:H:343:SER:HB2	2.49	0.48
1:J:100:SER:O	1:J:100:SER:OG	2.23	0.48
1:J:310:CYS:HB3	1:2:192:TYR:CD1	113.12	0.48
1:K:310:CYS:HB3	1:0:192:TYR:CD1	2.49	0.48
1:K:419:ASP:OD1	1:K:420:HIS:N	2.46	0.48
1:J:127:GLN:HE21	1:K:533:LEU:HD21	1.77	0.48
1:L:101:TYR:HD2	1:L:101:TYR:O	1.97	0.48
1:L:257:ARG:N	1:R:37:SER:HG	152.63	0.48
1:B:342:TYR:H	1:L:411:ASN:HD22	1.61	0.48
1:M:379:TYR:CD2	1:M:392:GLU:HG3	2.44	0.48
1:P:386:ASP:H	1:P:387:GLN:HA	1.79	0.48
1:Q:101:TYR:O	1:Q:101:TYR:HD2	1.97	0.48
1:R:101:TYR:HD2	1:R:101:TYR:O	1.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:246:PRO:O	1:S:246:PRO:HG2	2.14	0.48
1:T:257:ARG:N	1:X:37:SER:HG	108.90	0.48
1:V:192:TYR:CD1	1:X:310:CYS:HB3	2.49	0.48
1:W:419:ASP:OD1	1:W:420:HIS:N	2.46	0.48
1:X:191:PHE:CD1	1:X:191:PHE:N	2.81	0.48
1:X:192:TYR:CD1	1:4:310:CYS:HB3	2.49	0.48
1:X:56:ILE:HB	1:X:518:PHE:HB2	1.95	0.48
1:Y:246:PRO:O	1:Y:246:PRO:HG2	2.14	0.48
1:Y:386:ASP:H	1:Y:387:GLN:HA	1.79	0.48
1:Z:246:PRO:HG2	1:Z:246:PRO:O	2.14	0.48
1:Z:341:HIS:CE1	1:Z:343:SER:HB2	2.49	0.48
1:Z:379:TYR:CD2	1:Z:392:GLU:HG3	2.44	0.48
1:0:310:CYS:HB3	1:7:192:TYR:CD1	2.49	0.48
1:2:101:TYR:O	1:2:101:TYR:HD2	1.97	0.48
1:I:192:TYR:CD1	1:2:310:CYS:HB3	164.49	0.48
1:3:246:PRO:O	1:3:246:PRO:HG2	2.14	0.48
1:3:386:ASP:H	1:3:387:GLN:HA	1.79	0.48
1:3:96:THR:HG21	1:3:221:ILE:CG1	2.43	0.48
1:5:101:TYR:HD2	1:5:101:TYR:O	1.97	0.48
1:5:453:ALA:O	1:5:472:PRO:HD2	2.13	0.48
1:6:47:PHE:HE2	1:6:128:GLN:HB3	1.78	0.48
1:6:225:ASP:HB2	1:6:226:ARG:CB	2.36	0.48
1:7:453:ALA:O	1:7:472:PRO:HD2	2.13	0.48
1:C:129:LEU:HD11	1:C:136:ILE:HG21	1.96	0.48
1:C:257:ARG:N	1:D:37:SER:HG	2.11	0.48
1:C:310:CYS:HB3	1:D:192:TYR:CD1	96.31	0.48
1:G:56:ILE:HB	1:G:518:PHE:HB2	1.95	0.48
1:H:129:LEU:HD11	1:H:136:ILE:HG21	1.96	0.48
1:I:419:ASP:OD1	1:I:420:HIS:N	2.46	0.48
1:K:101:TYR:O	1:K:101:TYR:HD2	1.97	0.48
1:K:246:PRO:O	1:K:246:PRO:HG2	2.14	0.48
1:L:246:PRO:O	1:L:246:PRO:HG2	2.14	0.48
1:N:156:THR:O	1:N:163:THR:OG1	2.25	0.48
1:N:341:HIS:CE1	1:N:343:SER:HB2	2.49	0.48
1:N:96:THR:HG21	1:N:221:ILE:CG1	2.43	0.48
1:Q:106:GLU:HA	1:Q:210:CYS:HB3	1.95	0.48
1:R:56:ILE:HB	1:R:518:PHE:HB2	1.95	0.48
1:U:47:PHE:HE2	1:U:128:GLN:HB3	1.78	0.48
1:U:386:ASP:H	1:U:387:GLN:HA	1.79	0.48
1:0:101:TYR:HD2	1:0:101:TYR:O	1.97	0.48
1:0:66:ILE:HD11	1:0:206:LEU:HD22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:246:PRO:HG2	1:1:246:PRO:O	2.14	0.48
1:2:106:GLU:HA	1:2:210:CYS:HB3	1.95	0.48
1:2:101:TYR:CZ	1:2:236:GLY:HA3	2.44	0.48
1:2:292:SER:HB2	1:2:303:THR:O	2.14	0.48
1:3:419:ASP:OD1	1:3:420:HIS:N	2.46	0.48
1:4:246:PRO:HG2	1:4:246:PRO:O	2.14	0.48
1:4:407:TRP:HE3	1:4:410:LYS:HG2	1.77	0.48
1:6:66:ILE:HD11	1:6:206:LEU:HD22	1.95	0.48
1:B:192:TYR:CD1	1:L:310:CYS:HB3	2.49	0.48
1:B:225:ASP:HB2	1:B:226:ARG:CB	2.36	0.48
1:A:212:HIS:CE1	1:B:289:CYS:HA	59.26	0.48
1:C:100:SER:O	1:C:100:SER:OG	2.23	0.48
1:C:332:GLY:HA2	1:C:353:GLN:NE2	2.26	0.48
1:C:411:ASN:HD22	1:D:342:TYR:H	96.23	0.48
1:D:127:GLN:HE21	1:M:533:LEU:HD21	1.77	0.48
1:D:129:LEU:HD11	1:D:136:ILE:HG21	1.96	0.48
1:E:101:TYR:HD2	1:E:101:TYR:O	1.97	0.48
1:E:129:LEU:HD11	1:E:136:ILE:HG21	1.96	0.48
1:F:292:SER:HB2	1:F:303:THR:O	2.14	0.48
1:G:246:PRO:HG2	1:G:246:PRO:O	2.14	0.48
1:G:341:HIS:HE2	1:O:406:ASP:CG	178.46	0.48
1:G:310:CYS:HB3	1:H:192:TYR:CD1	52.43	0.48
1:H:411:ASN:HD22	1:O:342:TYR:H	214.85	0.48
1:B:310:CYS:HB3	1:J:192:TYR:CD1	2.49	0.48
1:K:310:CYS:HB3	1:L:192:TYR:CD1	77.42	0.48
1:K:386:ASP:H	1:K:387:GLN:HA	1.79	0.48
1:M:129:LEU:HD11	1:M:136:ILE:HG21	1.96	0.48
1:L:310:CYS:HB3	1:M:192:TYR:CD1	100.50	0.48
1:M:96:THR:HG21	1:M:221:ILE:CG1	2.43	0.48
1:C:192:TYR:CD1	1:M:310:CYS:HB3	2.48	0.48
1:K:342:TYR:H	1:M:411:ASN:HD22	137.90	0.48
1:O:42:ASN:ND2	1:P:252:ASN:OD1	2.46	0.48
1:R:96:THR:HG21	1:R:221:ILE:CG1	2.43	0.48
1:F:310:CYS:HB3	1:T:192:TYR:CD1	154.72	0.48
1:T:419:ASP:OD1	1:T:420:HIS:N	2.46	0.48
1:W:89:GLN:NE2	1:W:229:GLN:HB2	2.28	0.48
1:Z:101:TYR:O	1:Z:101:TYR:HD2	1.97	0.48
1:O:453:ALA:O	1:O:472:PRO:HD2	2.13	0.47
1:2:341:HIS:CE1	1:2:343:SER:HB2	2.49	0.47
1:3:453:ALA:O	1:3:472:PRO:HD2	2.13	0.47
1:4:124:ALA:HB2	1:5:529:ASN:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:533:LEU:HD21	1:5:127:GLN:HE21	1.78	0.47
1:K:257:ARG:CG	1:6:37:SER:HG	2.00	0.47
1:B:114:ALA:HB1	1:B:120:TRP:NE1	2.28	0.47
1:E:96:THR:HG21	1:E:221:ILE:CG1	2.43	0.47
1:F:101:TYR:HD2	1:F:101:TYR:O	1.97	0.47
1:F:159:GLY:N	1:F:162:GLU:OE2	2.48	0.47
1:G:292:SER:HB2	1:G:303:THR:O	2.14	0.47
1:H:127:GLN:HE21	1:3:533:LEU:HD21	183.63	0.47
1:J:101:TYR:O	1:J:101:TYR:HD2	1.97	0.47
1:J:252:ASN:OD1	1:Z:42:ASN:ND2	53.95	0.47
1:J:37:SER:HG	1:K:257:ARG:CG	80.44	0.47
1:J:386:ASP:H	1:J:387:GLN:HA	1.79	0.47
1:K:406:ASP:CG	1:L:341:HIS:HE2	60.83	0.47
1:M:342:TYR:H	1:1:411:ASN:HD22	1.61	0.47
1:O:101:TYR:O	1:O:101:TYR:HD2	1.97	0.47
1:Q:129:LEU:HD11	1:Q:136:ILE:HG21	1.96	0.47
1:R:246:PRO:O	1:R:246:PRO:HG2	2.14	0.47
1:K:42:ASN:ND2	1:S:252:ASN:OD1	154.24	0.47
1:A:127:GLN:HE21	1:T:533:LEU:HD21	123.28	0.47
1:X:101:TYR:O	1:X:101:TYR:HD2	1.97	0.47
1:X:386:ASP:H	1:X:387:GLN:HA	1.79	0.47
1:V:124:ALA:HB2	1:X:529:ASN:O	51.51	0.47
1:Y:310:CYS:HB3	1:Z:192:TYR:CD1	52.42	0.47
1:0:129:LEU:HD11	1:0:136:ILE:HG21	1.96	0.47
1:2:159:GLY:N	1:2:162:GLU:OE2	2.48	0.47
1:2:534:PRO:HD3	1:2:563:MET:HE1	1.95	0.47
1:S:42:ASN:ND2	1:3:252:ASN:OD1	2.46	0.47
1:4:332:GLY:HA2	1:4:353:GLN:NE2	2.26	0.47
1:4:109:TRP:CZ3	1:4:485:LYS:HB2	2.48	0.47
1:5:178:GLN:HE21	1:5:262:TRP:HH2	1.60	0.47
1:5:101:TYR:CZ	1:5:236:GLY:HA3	2.44	0.47
1:5:386:ASP:H	1:5:387:GLN:HA	1.79	0.47
1:7:156:THR:O	1:7:163:THR:OG1	2.25	0.47
1:7:246:PRO:HG2	1:7:246:PRO:O	2.14	0.47
1:K:342:TYR:H	1:7:411:ASN:HD22	1.61	0.47
1:B:107:THR:CG2	1:B:209:TYR:HD2	2.25	0.47
1:A:98:ASN:HB2	1:B:316:ARG:HH21	79.97	0.47
1:B:379:TYR:CD2	1:B:392:GLU:HG3	2.44	0.47
1:D:56:ILE:HB	1:D:518:PHE:HB2	1.95	0.47
1:E:159:GLY:N	1:E:162:GLU:OE2	2.48	0.47
1:E:257:ARG:N	1:Q:37:SER:HG	88.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:129:LEU:HD11	1:G:136:ILE:HG21	1.96	0.47
1:G:159:GLY:N	1:G:162:GLU:OE2	2.48	0.47
1:G:386:ASP:H	1:G:387:GLN:HA	1.79	0.47
1:H:192:TYR:CD1	1:Y:310:CYS:HB3	2.49	0.47
1:G:528:TRP:HB3	1:H:246:PRO:HG3	45.69	0.47
1:H:56:ILE:HB	1:H:518:PHE:HB2	1.95	0.47
1:I:129:LEU:HD11	1:I:136:ILE:HG21	1.96	0.47
1:M:192:TYR:CD1	1:I:310:CYS:HB3	2.49	0.47
1:O:528:TRP:HB3	1:P:246:PRO:HG3	35.57	0.47
1:R:292:SER:HB2	1:R:303:THR:O	2.14	0.47
1:S:159:GLY:N	1:S:162:GLU:OE2	2.48	0.47
1:T:332:GLY:HA2	1:T:353:GLN:NE2	2.26	0.47
1:T:386:ASP:H	1:T:387:GLN:HA	1.79	0.47
1:T:439:TYR:CE1	1:3:469:ALA:CB	2.86	0.47
1:U:292:SER:HB2	1:U:303:THR:O	2.14	0.47
1:U:310:CYS:HB3	1:V:192:TYR:CD1	52.42	0.47
1:U:533:LEU:HD21	1:V:127:GLN:HE21	1.78	0.47
1:V:156:THR:O	1:V:163:THR:OG1	2.25	0.47
1:V:292:SER:HB2	1:V:303:THR:O	2.14	0.47
1:W:192:TYR:CD1	1:X:310:CYS:HB3	52.43	0.47
1:Y:292:SER:HB2	1:Y:303:THR:O	2.14	0.47
1:Z:159:GLY:N	1:Z:162:GLU:OE2	2.48	0.47
1:1:379:TYR:CD2	1:1:392:GLU:HG3	2.44	0.47
1:2:100:SER:OG	1:2:100:SER:O	2.23	0.47
1:3:101:TYR:O	1:3:101:TYR:HD2	1.97	0.47
1:3:332:GLY:HA2	1:3:353:GLN:NE2	2.26	0.47
1:4:292:SER:HB2	1:4:303:THR:O	2.14	0.47
1:5:129:LEU:HD11	1:5:136:ILE:HG21	1.96	0.47
1:6:292:SER:HB2	1:6:303:THR:O	2.14	0.47
1:6:533:LEU:HD21	1:7:127:GLN:HE21	1.78	0.47
1:A:159:GLY:N	1:A:162:GLU:OE2	2.48	0.47
1:A:469:ALA:HB2	1:B:439:TYR:CZ	79.60	0.47
1:A:96:THR:HG21	1:A:221:ILE:CG1	2.43	0.47
1:B:159:GLY:N	1:B:162:GLU:OE2	2.48	0.47
1:C:179:ASP:O	1:C:480:GLY:HA3	2.15	0.47
1:C:386:ASP:H	1:C:387:GLN:HA	1.79	0.47
1:D:386:ASP:H	1:D:387:GLN:HA	1.79	0.47
1:D:310:CYS:HB3	1:E:192:TYR:CD1	96.31	0.47
1:E:439:TYR:CE1	1:Q:469:ALA:CB	2.87	0.47
1:H:292:SER:HB2	1:H:303:THR:O	2.14	0.47
1:H:310:CYS:HB3	1:W:192:TYR:CD1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:246:PRO:HG3	1:2:528:TRP:HB3	155.02	0.47
1:I:332:GLY:HA2	1:I:353:GLN:NE2	2.26	0.47
1:B:127:GLN:HE21	1:I:533:LEU:HD21	1.78	0.47
1:K:292:SER:HB2	1:K:303:THR:O	2.14	0.47
1:K:109:TRP:CZ3	1:K:485:LYS:HB2	2.48	0.47
1:L:292:SER:HB2	1:L:303:THR:O	2.14	0.47
1:L:386:ASP:H	1:L:387:GLN:HA	1.79	0.47
1:M:292:SER:HB2	1:M:303:THR:O	2.14	0.47
1:M:56:ILE:HB	1:M:518:PHE:HB2	1.95	0.47
1:N:134:ARG:O	1:N:276:LEU:N	2.32	0.47
1:O:129:LEU:HD11	1:O:136:ILE:HG21	1.96	0.47
1:O:66:ILE:HD11	1:O:206:LEU:HD22	1.95	0.47
1:O:246:PRO:HG2	1:O:246:PRO:O	2.14	0.47
1:O:292:SER:HB2	1:O:303:THR:O	2.14	0.47
1:P:159:GLY:N	1:P:162:GLU:OE2	2.48	0.47
1:P:292:SER:HB2	1:P:303:THR:O	2.14	0.47
1:Q:159:GLY:N	1:Q:162:GLU:OE2	2.48	0.47
1:Q:292:SER:HB2	1:Q:303:THR:O	2.14	0.47
1:Q:386:ASP:H	1:Q:387:GLN:HA	1.79	0.47
1:R:129:LEU:HD11	1:R:136:ILE:HG21	1.96	0.47
1:R:159:GLY:N	1:R:162:GLU:OE2	2.48	0.47
1:S:292:SER:HB2	1:S:303:THR:O	2.14	0.47
1:S:310:CYS:HB3	1:U:192:TYR:CD1	2.49	0.47
1:T:107:THR:CG2	1:T:209:TYR:HD2	2.25	0.47
1:U:124:ALA:HB2	1:V:529:ASN:O	2.15	0.47
1:V:129:LEU:HD11	1:V:136:ILE:HG21	1.96	0.47
1:V:159:GLY:N	1:V:162:GLU:OE2	2.48	0.47
1:V:246:PRO:HG2	1:V:246:PRO:O	2.14	0.47
1:V:411:ASN:HD22	1:4:342:TYR:H	1.61	0.47
1:X:129:LEU:HD11	1:X:136:ILE:HG21	1.96	0.47
1:Y:159:GLY:N	1:Y:162:GLU:OE2	2.48	0.47
1:Z:310:CYS:HB3	1:6:192:TYR:CD1	154.72	0.47
1:0:106:GLU:HA	1:0:210:CYS:HB3	1.95	0.47
1:2:107:THR:CG2	1:2:209:TYR:HD2	2.25	0.47
1:3:129:LEU:HD11	1:3:136:ILE:HG21	1.96	0.47
1:3:191:PHE:N	1:3:191:PHE:CD1	2.81	0.47
1:O:257:ARG:CG	1:3:37:SER:HG	1.99	0.47
1:4:191:PHE:N	1:4:191:PHE:CD1	2.81	0.47
1:5:106:GLU:HA	1:5:210:CYS:HB3	1.95	0.47
1:6:124:ALA:HB2	1:7:529:ASN:O	2.15	0.47
1:6:96:THR:HG21	1:6:221:ILE:CG1	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:292:SER:HB2	1:7:303:THR:O	2.14	0.47
1:A:161:GLN:HB3	1:E:158:ALA:HA	1.95	0.47
1:A:292:SER:HB2	1:A:303:THR:O	2.14	0.47
1:B:127:GLN:HE21	1:E:533:LEU:HD21	103.18	0.47
1:B:292:SER:HB2	1:B:303:THR:O	2.14	0.47
1:A:98:ASN:HD22	1:B:316:ARG:HH22	82.22	0.47
1:D:159:GLY:N	1:D:162:GLU:OE2	2.48	0.47
1:D:106:GLU:HA	1:D:210:CYS:HB3	1.95	0.47
1:D:292:SER:HB2	1:D:303:THR:O	2.14	0.47
1:E:225:ASP:HB2	1:E:226:ARG:CB	2.36	0.47
1:G:124:ALA:HB2	1:H:529:ASN:O	2.14	0.47
1:H:439:TYR:CE1	1:O:469:ALA:CB	190.61	0.47
1:I:386:ASP:H	1:I:387:GLN:HA	1.79	0.47
1:I:439:TYR:CE1	1:J:469:ALA:CB	78.45	0.47
1:J:129:LEU:HD11	1:J:136:ILE:HG21	1.96	0.47
1:J:191:PHE:N	1:J:191:PHE:CD1	2.81	0.47
1:K:129:LEU:HD11	1:K:136:ILE:HG21	1.96	0.47
1:K:191:PHE:CD1	1:K:191:PHE:N	2.81	0.47
1:J:411:ASN:HD22	1:L:342:TYR:H	1.61	0.47
1:L:59:HIS:HE1	1:L:515:LYS:HZ1	1.63	0.47
1:N:124:ALA:HB2	1:O:529:ASN:O	2.15	0.47
1:N:129:LEU:HD11	1:N:136:ILE:HG21	1.96	0.47
1:N:246:PRO:O	1:N:246:PRO:HG2	2.14	0.47
1:N:292:SER:HB2	1:N:303:THR:O	2.14	0.47
1:O:529:ASN:O	1:U:124:ALA:HB2	155.33	0.47
1:P:179:ASP:O	1:P:480:GLY:HA3	2.15	0.47
1:Q:379:TYR:CD2	1:Q:392:GLU:HG3	2.44	0.47
1:T:129:LEU:HD11	1:T:136:ILE:HG21	1.96	0.47
1:U:159:GLY:N	1:U:162:GLU:OE2	2.48	0.47
1:X:192:TYR:CD1	1:Z:310:CYS:HB3	82.52	0.47
1:Y:109:TRP:CZ3	1:Y:485:LYS:HB2	2.48	0.47
1:W:528:TRP:HB3	1:Y:246:PRO:HG3	1.86	0.47
1:Y:263:GLU:HA	1:Y:264:SER:HA	1.75	0.47
1:Z:292:SER:HB2	1:Z:303:THR:O	2.14	0.47
1:O:156:THR:O	1:O:163:THR:OG1	2.25	0.47
1:1:106:GLU:HA	1:1:210:CYS:HB3	1.95	0.47
1:3:341:HIS:CE1	1:3:343:SER:HB2	2.49	0.47
1:4:179:ASP:O	1:4:480:GLY:HA3	2.15	0.47
1:Z:411:ASN:HD22	1:6:342:TYR:H	156.72	0.47
1:7:107:THR:CG2	1:7:209:TYR:HD2	2.25	0.47
1:A:47:PHE:HE2	1:A:128:GLN:HB3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:179:ASP:O	1:A:480:GLY:HA3	2.15	0.47
1:A:411:ASN:HD22	1:G:342:TYR:H	1.61	0.47
1:A:42:ASN:ND2	1:U:252:ASN:OD1	122.56	0.47
1:B:158:ALA:HA	1:4:161:GLN:HB3	220.59	0.47
1:B:338:TRP:CD1	1:5:417:LEU:HB2	231.05	0.47
1:B:386:ASP:H	1:B:387:GLN:HA	1.79	0.47
1:C:106:GLU:HA	1:C:210:CYS:HB3	1.95	0.47
1:C:159:GLY:N	1:C:162:GLU:OE2	2.48	0.47
1:C:379:TYR:CD2	1:C:392:GLU:HG3	2.44	0.47
1:C:528:TRP:CB	1:1:246:PRO:CG	2.65	0.47
1:E:179:ASP:O	1:E:480:GLY:HA3	2.15	0.47
1:E:89:GLN:NE2	1:E:229:GLN:HB2	2.28	0.47
1:E:246:PRO:HG3	1:F:528:TRP:HB3	1.85	0.47
1:E:298:GLU:HA	1:E:299:GLY:HA2	1.56	0.47
1:E:292:SER:HB2	1:E:303:THR:O	2.14	0.47
1:G:310:CYS:HB3	1:I:192:TYR:CD1	2.49	0.47
1:I:341:HIS:CE1	1:I:343:SER:HB2	2.49	0.47
1:I:310:CYS:HB3	1:J:192:TYR:CD1	77.42	0.47
1:K:159:GLY:N	1:K:162:GLU:OE2	2.48	0.47
1:K:179:ASP:O	1:K:480:GLY:HA3	2.15	0.47
1:B:469:ALA:CB	1:L:439:TYR:CE1	2.87	0.47
1:M:159:GLY:N	1:M:162:GLU:OE2	2.48	0.47
1:M:341:HIS:HE2	1:1:406:ASP:CG	2.16	0.47
1:O:159:GLY:N	1:O:162:GLU:OE2	2.48	0.47
1:P:534:PRO:HD3	1:P:563:MET:HE1	1.97	0.47
1:R:257:ARG:CG	1:V:37:SER:CB	2.73	0.47
1:S:386:ASP:H	1:S:387:GLN:HA	1.79	0.47
1:S:411:ASN:HD22	1:U:342:TYR:H	1.60	0.47
1:F:528:TRP:HB3	1:T:246:PRO:HG3	165.74	0.47
1:U:179:ASP:O	1:U:480:GLY:HA3	2.15	0.47
1:Y:298:GLU:HA	1:Y:299:GLY:HA2	1.56	0.47
1:W:411:ASN:HD22	1:Z:342:TYR:H	87.53	0.47
1:0:292:SER:HB2	1:0:303:THR:O	2.14	0.47
1:3:109:TRP:CZ3	1:3:485:LYS:HB2	2.48	0.47
1:7:129:LEU:HD11	1:7:136:ILE:HG21	1.96	0.47
1:7:159:GLY:N	1:7:162:GLU:OE2	2.48	0.47
1:B:529:ASN:O	1:I:124:ALA:HB2	2.14	0.47
1:C:89:GLN:NE2	1:C:229:GLN:HB2	2.28	0.47
1:D:179:ASP:O	1:D:480:GLY:HA3	2.15	0.47
1:D:298:GLU:HA	1:D:299:GLY:HA2	1.56	0.47
1:E:379:TYR:CD2	1:E:392:GLU:HG3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:191:PHE:CD1	1:G:191:PHE:N	2.81	0.47
1:G:179:ASP:O	1:G:480:GLY:HA3	2.15	0.47
1:H:101:TYR:O	1:H:101:TYR:HD2	1.97	0.47
1:H:159:GLY:N	1:H:162:GLU:OE2	2.48	0.47
1:H:191:PHE:N	1:H:191:PHE:CD1	2.81	0.47
1:F:257:ARG:N	1:H:37:SER:HG	93.21	0.47
1:H:529:ASN:O	1:3:124:ALA:HB2	169.03	0.47
1:I:107:THR:CG2	1:I:209:TYR:HD2	2.25	0.47
1:I:191:PHE:CD1	1:I:191:PHE:N	2.81	0.47
1:J:124:ALA:HB2	1:M:529:ASN:O	121.16	0.47
1:K:529:ASN:O	1:R:124:ALA:HB2	160.27	0.47
1:M:101:TYR:HD2	1:M:101:TYR:O	1.97	0.47
1:M:179:ASP:O	1:M:480:GLY:HA3	2.15	0.47
1:O:156:THR:O	1:O:163:THR:OG1	2.25	0.47
1:N:469:ALA:CB	1:P:439:TYR:CE1	23.07	0.47
1:R:109:TRP:CZ3	1:R:485:LYS:HB2	2.48	0.47
1:S:179:ASP:O	1:S:480:GLY:HA3	2.15	0.47
1:T:310:CYS:HB3	1:3:192:TYR:CD1	2.49	0.47
1:T:341:HIS:CE1	1:T:343:SER:HB2	2.49	0.47
1:T:192:TYR:CD1	1:V:310:CYS:HB3	82.52	0.47
1:V:386:ASP:H	1:V:387:GLN:HA	1.79	0.47
1:W:411:ASN:HD22	1:Y:342:TYR:H	1.61	0.47
1:Z:156:THR:O	1:Z:163:THR:OG1	2.25	0.47
1:1:292:SER:HB2	1:1:303:THR:O	2.14	0.47
1:2:179:ASP:O	1:2:480:GLY:HA3	2.15	0.47
1:3:179:ASP:O	1:3:480:GLY:HA3	2.15	0.47
1:5:159:GLY:N	1:5:162:GLU:OE2	2.48	0.47
1:7:386:ASP:H	1:7:387:GLN:HA	1.79	0.47
1:A:267:TYR:CE2	1:A:479:PRO:HD3	2.50	0.47
1:A:386:ASP:H	1:A:387:GLN:HA	1.79	0.47
1:B:267:TYR:CE2	1:B:479:PRO:HD3	2.50	0.47
1:C:59:HIS:HE1	1:C:515:LYS:HZ1	1.63	0.47
1:C:406:ASP:CG	1:D:341:HIS:HE2	91.64	0.47
1:E:267:TYR:CE2	1:E:479:PRO:HD3	2.50	0.47
1:G:529:ASN:O	1:L:124:ALA:HB2	121.16	0.47
1:H:109:TRP:CZ3	1:H:485:LYS:HB2	2.48	0.47
1:J:179:ASP:O	1:J:480:GLY:HA3	2.15	0.47
1:J:533:LEU:HD21	1:M:127:GLN:HE21	121.40	0.47
1:L:129:LEU:HD11	1:L:136:ILE:HG21	1.96	0.47
1:M:89:GLN:NE2	1:M:229:GLN:HB2	2.28	0.47
1:N:343:SER:OG	1:N:344:THR:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:267:TYR:CE2	1:P:479:PRO:HD3	2.50	0.47
1:E:406:ASP:CG	1:Q:341:HIS:HE2	2.16	0.47
1:Q:179:ASP:O	1:Q:480:GLY:HA3	2.15	0.47
1:R:406:ASP:CG	1:S:341:HIS:HE2	2.16	0.47
1:T:159:GLY:N	1:T:162:GLU:OE2	2.48	0.47
1:T:191:PHE:N	1:T:191:PHE:CD1	2.81	0.47
1:U:96:THR:HG21	1:U:221:ILE:CG1	2.43	0.47
1:W:124:ALA:HB2	1:O:529:ASN:O	135.05	0.47
1:W:292:SER:HB2	1:W:303:THR:O	2.14	0.47
1:X:292:SER:HB2	1:X:303:THR:O	2.14	0.47
1:H:346:GLY:CA	1:Y:284:ARG:HD2	2.44	0.47
1:W:528:TRP:HB3	1:Z:246:PRO:HG3	104.92	0.47
1:O:179:ASP:O	1:O:480:GLY:HA3	2.15	0.47
1:1:386:ASP:H	1:1:387:GLN:HA	1.79	0.47
1:3:159:GLY:N	1:3:162:GLU:OE2	2.48	0.47
1:3:267:TYR:CE2	1:3:479:PRO:HD3	2.50	0.47
1:4:159:GLY:N	1:4:162:GLU:OE2	2.48	0.47
1:5:267:TYR:CE2	1:5:479:PRO:HD3	2.50	0.47
1:6:179:ASP:O	1:6:480:GLY:HA3	2.15	0.47
1:6:529:ASN:O	1:7:124:ALA:HB2	2.15	0.47
1:A:390:MET:HA	1:A:391:ARG:HA	1.72	0.47
1:B:129:LEU:HD11	1:B:136:ILE:HG21	1.96	0.47
1:A:252:ASN:OD1	1:B:42:ASN:ND2	2.47	0.47
1:C:292:SER:HB2	1:C:303:THR:O	2.14	0.47
1:E:59:HIS:HE1	1:E:515:LYS:HZ1	1.66	0.47
1:F:179:ASP:O	1:F:480:GLY:HA3	2.15	0.47
1:F:287:GLY:H	1:F:325:ARG:HH12	1.63	0.47
1:G:390:MET:HA	1:G:391:ARG:HA	1.72	0.47
1:H:179:ASP:O	1:H:480:GLY:HA3	2.15	0.47
1:I:298:GLU:HA	1:I:299:GLY:HA2	1.56	0.47
1:J:109:TRP:CZ3	1:J:485:LYS:HB2	2.48	0.47
1:J:159:GLY:N	1:J:162:GLU:OE2	2.48	0.47
1:K:343:SER:OG	1:K:344:THR:N	2.48	0.47
1:L:298:GLU:HA	1:L:299:GLY:HA2	1.56	0.47
1:L:267:TYR:CE2	1:L:479:PRO:HD3	2.50	0.47
1:L:179:ASP:O	1:L:480:GLY:HA3	2.15	0.47
1:D:124:ALA:HB2	1:M:529:ASN:O	2.15	0.47
1:P:129:LEU:HD11	1:P:136:ILE:HG21	1.96	0.47
1:P:191:PHE:N	1:P:191:PHE:CD1	2.81	0.47
1:E:124:ALA:HB2	1:P:529:ASN:O	2.15	0.47
1:D:529:ASN:O	1:Q:124:ALA:HB2	120.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:343:SER:OG	1:R:344:THR:N	2.48	0.47
1:T:298:GLU:HA	1:T:299:GLY:HA2	1.56	0.47
1:T:411:ASN:HD22	1:U:342:TYR:H	65.94	0.47
1:V:89:GLN:NE2	1:V:229:GLN:HB2	2.28	0.47
1:V:287:GLY:H	1:V:325:ARG:HH12	1.63	0.47
1:W:341:HIS:CE1	1:W:343:SER:HB2	2.49	0.47
1:W:267:TYR:CE2	1:W:479:PRO:HD3	2.50	0.47
1:Y:96:THR:HG21	1:Y:221:ILE:CG1	2.43	0.47
1:0:267:TYR:CE2	1:0:479:PRO:HD3	2.50	0.47
1:1:129:LEU:HD11	1:1:136:ILE:HG21	1.96	0.47
1:1:159:GLY:N	1:1:162:GLU:OE2	2.48	0.47
1:1:89:GLN:NE2	1:1:229:GLN:HB2	2.28	0.47
1:1:287:GLY:H	1:1:325:ARG:HH12	1.63	0.47
1:1:56:ILE:HB	1:1:518:PHE:HB2	1.95	0.47
1:4:107:THR:CG2	1:4:209:TYR:HD2	2.25	0.47
1:7:179:ASP:O	1:7:480:GLY:HA3	2.15	0.47
1:A:129:LEU:HD11	1:A:136:ILE:HG21	1.96	0.47
1:A:469:ALA:CB	1:B:439:TYR:CE1	78.45	0.47
1:C:287:GLY:H	1:C:325:ARG:HH12	1.63	0.47
1:D:101:TYR:O	1:D:101:TYR:HD2	1.97	0.47
1:D:89:GLN:NE2	1:D:229:GLN:HB2	2.28	0.47
1:D:267:TYR:CE2	1:D:479:PRO:HD3	2.50	0.47
1:I:159:GLY:N	1:I:162:GLU:OE2	2.48	0.47
1:I:179:ASP:O	1:I:480:GLY:HA3	2.15	0.47
1:J:267:TYR:CE2	1:J:479:PRO:HD3	2.50	0.47
1:K:124:ALA:HB2	1:R:529:ASN:O	174.52	0.47
1:K:469:ALA:CB	1:M:439:TYR:CE1	108.54	0.47
1:N:159:GLY:N	1:N:162:GLU:OE2	2.48	0.47
1:O:298:GLU:HA	1:O:299:GLY:HA2	1.56	0.47
1:Q:267:TYR:CE2	1:Q:479:PRO:HD3	2.50	0.47
1:R:179:ASP:O	1:R:480:GLY:HA3	2.15	0.47
1:S:129:LEU:HD11	1:S:136:ILE:HG21	1.96	0.47
1:T:161:GLN:HB3	1:5:158:ALA:HA	136.16	0.47
1:T:179:ASP:O	1:T:480:GLY:HA3	2.15	0.47
1:U:529:ASN:O	1:V:124:ALA:HB2	2.15	0.47
1:V:191:PHE:CD1	1:V:191:PHE:N	2.81	0.47
1:W:124:ALA:HB2	1:X:529:ASN:O	2.15	0.47
1:W:129:LEU:HD11	1:W:136:ILE:HG21	1.96	0.47
1:X:267:TYR:CE2	1:X:479:PRO:HD3	2.50	0.47
1:X:287:GLY:H	1:X:325:ARG:HH12	1.63	0.47
1:Y:129:LEU:HD11	1:Y:136:ILE:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:129:LEU:HD11	1:Z:136:ILE:HG21	1.96	0.47
1:X:346:GLY:CA	1:Z:284:ARG:HD2	102.84	0.47
1:Y:406:ASP:CG	1:Z:341:HIS:HE2	71.70	0.47
1:O:215:THR:O	1:O:216:TRP:HD1	1.98	0.47
1:O:386:ASP:H	1:O:387:GLN:HA	1.79	0.47
1:1:124:ALA:HB2	1:2:529:ASN:O	2.15	0.47
1:1:107:THR:CG2	1:1:209:TYR:HD2	2.25	0.47
1:2:267:TYR:CE2	1:2:479:PRO:HD3	2.50	0.47
1:3:56:ILE:HB	1:3:518:PHE:HB2	1.95	0.47
1:4:343:SER:OG	1:4:344:THR:N	2.48	0.47
1:7:89:GLN:NE2	1:7:229:GLN:HB2	2.28	0.47
1:7:66:ILE:O	1:7:508:GLY:N	2.48	0.47
1:B:298:GLU:HA	1:B:299:GLY:HA2	1.56	0.47
1:B:469:ALA:HB2	1:5:439:TYR:CZ	204.50	0.47
1:E:100:SER:O	1:E:100:SER:OG	2.23	0.47
1:E:191:PHE:CD1	1:E:191:PHE:N	2.81	0.47
1:F:341:HIS:HE2	1:3:406:ASP:CG	133.10	0.47
1:F:343:SER:OG	1:F:344:THR:N	2.48	0.47
1:G:287:GLY:H	1:G:325:ARG:HH12	1.63	0.47
1:G:66:ILE:O	1:G:508:GLY:N	2.48	0.47
1:H:134:ARG:O	1:H:276:LEU:N	2.32	0.47
1:H:215:THR:O	1:H:216:TRP:HD1	1.98	0.47
1:I:343:SER:OG	1:I:344:THR:N	2.48	0.47
1:A:342:TYR:H	1:I:411:ASN:HD22	1.61	0.47
1:J:292:SER:HB2	1:J:303:THR:O	2.14	0.47
1:M:215:THR:O	1:M:216:TRP:HD1	1.98	0.47
1:N:341:HIS:HE2	1:P:406:ASP:CG	23.68	0.47
1:G:257:ARG:N	1:N:37:SER:HG	149.66	0.47
1:N:386:ASP:H	1:N:387:GLN:HA	1.79	0.47
1:O:287:GLY:H	1:O:325:ARG:HH12	1.63	0.47
1:O:343:SER:OG	1:O:344:THR:N	2.48	0.47
1:R:215:THR:O	1:R:216:TRP:HD1	1.98	0.47
1:R:341:HIS:HE2	1:U:406:ASP:CG	2.17	0.47
1:S:156:THR:O	1:S:163:THR:OG1	2.25	0.47
1:S:343:SER:OG	1:S:344:THR:N	2.48	0.47
1:P:124:ALA:HB2	1:S:529:ASN:O	102.33	0.47
1:U:129:LEU:HD11	1:U:136:ILE:HG21	1.96	0.47
1:V:179:ASP:O	1:V:480:GLY:HA3	2.15	0.47
1:V:66:ILE:O	1:V:508:GLY:N	2.48	0.47
1:X:156:THR:O	1:X:163:THR:OG1	2.25	0.47
1:X:215:THR:O	1:X:216:TRP:HD1	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:215:THR:O	1:Y:216:TRP:HD1	1.98	0.47
1:Y:341:HIS:HE2	1:6:406:ASP:CG	184.46	0.47
1:X:469:ALA:CB	1:Z:439:TYR:CE1	104.82	0.47
1:O:287:GLY:H	1:O:325:ARG:HH12	1.63	0.47
1:5:292:SER:HB2	1:5:303:THR:O	2.14	0.47
1:7:225:ASP:HB2	1:7:226:ARG:CB	2.36	0.47
1:A:124:ALA:HB2	1:F:529:ASN:O	2.15	0.47
1:C:246:PRO:CG	1:E:528:TRP:CB	73.94	0.47
1:C:298:GLU:HA	1:C:299:GLY:HA2	1.56	0.47
1:C:343:SER:OG	1:C:344:THR:N	2.48	0.47
1:D:124:ALA:HB2	1:Q:529:ASN:O	120.41	0.47
1:D:529:ASN:O	1:M:124:ALA:HB2	2.15	0.47
1:E:529:ASN:O	1:P:124:ALA:HB2	2.15	0.47
1:F:267:TYR:CE2	1:F:479:PRO:HD3	2.50	0.47
1:C:124:ALA:HB2	1:F:529:ASN:O	84.88	0.47
1:G:124:ALA:HB2	1:L:529:ASN:O	121.16	0.47
1:G:267:TYR:CE2	1:G:479:PRO:HD3	2.50	0.47
1:G:406:ASP:CG	1:I:341:HIS:HE2	2.16	0.47
1:J:343:SER:OG	1:J:344:THR:N	2.48	0.47
1:N:529:ASN:O	1:Y:124:ALA:HB2	196.56	0.47
1:O:179:ASP:O	1:O:480:GLY:HA3	2.15	0.47
1:E:528:TRP:HB3	1:Q:246:PRO:HG3	1.86	0.47
1:Q:341:HIS:HE2	1:S:406:ASP:CG	91.65	0.47
1:Q:529:ASN:O	1:R:124:ALA:HB2	2.15	0.47
1:R:298:GLU:HA	1:R:299:GLY:HA2	1.56	0.47
1:T:343:SER:OG	1:T:344:THR:N	2.48	0.47
1:U:156:THR:O	1:U:163:THR:OG1	2.25	0.47
1:U:89:GLN:NE2	1:U:229:GLN:HB2	2.28	0.47
1:U:267:TYR:CE2	1:U:479:PRO:HD3	2.50	0.47
1:W:529:ASN:O	1:O:124:ALA:HB2	109.94	0.47
1:W:529:ASN:O	1:X:124:ALA:HB2	2.15	0.47
1:X:179:ASP:O	1:X:480:GLY:HA3	2.15	0.47
1:Y:257:ARG:CG	1:7:37:SER:CB	113.34	0.47
1:Y:257:ARG:N	1:7:37:SER:HG	114.96	0.47
1:Y:343:SER:OG	1:Y:344:THR:N	2.48	0.47
1:Z:263:GLU:HA	1:Z:264:SER:HA	1.76	0.47
1:Z:343:SER:OG	1:Z:344:THR:N	2.48	0.47
1:1:343:SER:OG	1:1:344:THR:N	2.48	0.46
1:2:89:GLN:NE2	1:2:229:GLN:HB2	2.28	0.46
1:J:406:ASP:CG	1:2:341:HIS:HE2	136.76	0.46
1:3:66:ILE:O	1:3:508:GLY:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:129:LEU:HD11	1:4:136:ILE:HG21	1.96	0.46
1:4:267:TYR:CE2	1:4:479:PRO:HD3	2.50	0.46
1:5:215:THR:O	1:5:216:TRP:HD1	1.98	0.46
1:5:343:SER:OG	1:5:344:THR:N	2.48	0.46
1:5:66:ILE:O	1:5:508:GLY:N	2.48	0.46
1:C:96:THR:HG21	1:C:221:ILE:CG1	2.43	0.46
1:D:341:HIS:HE2	1:P:406:ASP:CG	2.16	0.46
1:F:89:GLN:NE2	1:F:229:GLN:HB2	2.28	0.46
1:G:298:GLU:HA	1:G:299:GLY:HA2	1.56	0.46
1:I:124:ALA:HB2	1:Z:529:ASN:O	104.79	0.46
1:J:215:THR:O	1:J:216:TRP:HD1	1.98	0.46
1:J:66:ILE:O	1:J:508:GLY:N	2.48	0.46
1:K:267:TYR:CE2	1:K:479:PRO:HD3	2.50	0.46
1:K:287:GLY:H	1:K:325:ARG:HH12	1.63	0.46
1:L:114:ALA:HB1	1:L:120:TRP:NE1	2.28	0.46
1:L:159:GLY:N	1:L:162:GLU:OE2	2.48	0.46
1:M:134:ARG:O	1:M:276:LEU:N	2.32	0.46
1:M:267:TYR:CE2	1:M:479:PRO:HD3	2.50	0.46
1:O:267:TYR:CE2	1:O:479:PRO:HD3	2.50	0.46
1:P:529:ASN:O	1:S:124:ALA:HB2	104.78	0.46
1:E:158:ALA:HA	1:Q:161:GLN:HB3	127.35	0.46
1:R:257:ARG:N	1:V:37:SER:HG	2.10	0.46
1:S:267:TYR:CE2	1:S:479:PRO:HD3	2.50	0.46
1:S:59:HIS:HE1	1:S:515:LYS:HZ1	1.63	0.46
1:W:101:TYR:O	1:W:101:TYR:HD2	1.97	0.46
1:W:343:SER:OG	1:W:344:THR:N	2.48	0.46
1:W:386:ASP:H	1:W:387:GLN:HA	1.79	0.46
1:Y:124:ALA:HB2	1:Z:529:ASN:O	2.15	0.46
1:Y:179:ASP:O	1:Y:480:GLY:HA3	2.15	0.46
1:Y:529:ASN:O	1:Z:124:ALA:HB2	2.15	0.46
1:Z:267:TYR:CE2	1:Z:479:PRO:HD3	2.50	0.46
1:0:439:TYR:CE1	1:7:469:ALA:CB	2.86	0.46
1:1:267:TYR:CE2	1:1:479:PRO:HD3	2.50	0.46
1:1:529:ASN:O	1:2:124:ALA:HB2	2.14	0.46
1:2:56:ILE:HB	1:2:518:PHE:HB2	1.95	0.46
1:2:66:ILE:O	1:2:508:GLY:N	2.48	0.46
1:4:287:GLY:H	1:4:325:ARG:HH12	1.63	0.46
1:5:107:THR:CG2	1:5:209:TYR:HD2	2.25	0.46
1:5:355:PHE:HE1	1:5:357:GLN:NE2	2.14	0.46
1:6:89:GLN:NE2	1:6:229:GLN:HB2	2.28	0.46
1:B:341:HIS:HE2	1:L:406:ASP:CG	2.17	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:124:ALA:HB2	1:L:529:ASN:O	2.15	0.46
1:C:267:TYR:CE2	1:C:479:PRO:HD3	2.50	0.46
1:D:245:THR:HA	1:D:246:PRO:HD2	1.50	0.46
1:F:245:THR:HA	1:F:246:PRO:HD2	1.50	0.46
1:F:66:ILE:O	1:F:508:GLY:N	2.48	0.46
1:G:161:GLN:HB3	1:W:158:ALA:HA	1.98	0.46
1:H:156:THR:O	1:H:163:THR:OG1	2.25	0.46
1:H:355:PHE:HE1	1:H:357:GLN:NE2	2.14	0.46
1:J:355:PHE:HE1	1:J:357:GLN:NE2	2.14	0.46
1:J:37:SER:CB	1:K:257:ARG:CG	79.49	0.46
1:K:37:SER:HG	1:L:257:ARG:N	2.11	0.46
1:M:355:PHE:HE1	1:M:357:GLN:NE2	2.14	0.46
1:N:529:ASN:O	1:O:124:ALA:HB2	2.15	0.46
1:P:298:GLU:HA	1:P:299:GLY:HA2	1.56	0.46
1:S:191:PHE:N	1:S:191:PHE:CD1	2.81	0.46
1:S:215:THR:O	1:S:216:TRP:HD1	1.98	0.46
1:S:287:GLY:H	1:S:325:ARG:HH12	1.63	0.46
1:T:292:SER:HB2	1:T:303:THR:O	2.14	0.46
1:T:341:HIS:HE2	1:V:406:ASP:CG	117.20	0.46
1:V:390:MET:HA	1:V:391:ARG:HA	1.72	0.46
1:V:267:TYR:CE2	1:V:479:PRO:HD3	2.50	0.46
1:V:161:GLN:HB3	1:W:158:ALA:HA	14.55	0.46
1:W:159:GLY:N	1:W:162:GLU:OE2	2.48	0.46
1:W:179:ASP:O	1:W:480:GLY:HA3	2.15	0.46
1:W:66:ILE:HD11	1:W:206:LEU:HD22	1.95	0.46
1:1:179:ASP:O	1:1:480:GLY:HA3	2.15	0.46
1:2:343:SER:OG	1:2:344:THR:N	2.48	0.46
1:3:215:THR:O	1:3:216:TRP:HD1	1.98	0.46
1:3:343:SER:OG	1:3:344:THR:N	2.48	0.46
1:4:114:ALA:HB1	1:4:120:TRP:NE1	2.28	0.46
1:4:96:THR:HG21	1:4:221:ILE:CG1	2.43	0.46
1:6:159:GLY:N	1:6:162:GLU:OE2	2.48	0.46
1:6:355:PHE:HE1	1:6:357:GLN:NE2	2.14	0.46
1:7:100:SER:O	1:7:100:SER:OG	2.23	0.46
1:A:156:THR:O	1:A:163:THR:OG1	2.25	0.46
1:B:156:THR:O	1:B:163:THR:OG1	2.25	0.46
1:C:215:THR:O	1:C:216:TRP:HD1	1.98	0.46
1:C:334:SER:OG	1:C:435:THR:HG23	2.16	0.46
1:C:158:ALA:HA	1:D:161:GLN:HB3	1.98	0.46
1:D:355:PHE:HE1	1:D:357:GLN:NE2	2.14	0.46
1:G:343:SER:OG	1:G:344:THR:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:343:SER:OG	1:H:344:THR:N	2.48	0.46
1:H:267:TYR:CE2	1:H:479:PRO:HD3	2.50	0.46
1:J:529:ASN:O	1:K:124:ALA:HB2	2.15	0.46
1:C:529:ASN:O	1:L:124:ALA:HB2	2.15	0.46
1:L:343:SER:OG	1:L:344:THR:N	2.48	0.46
1:M:287:GLY:H	1:M:325:ARG:HH12	1.63	0.46
1:N:246:PRO:HG3	1:P:528:TRP:HB3	66.72	0.46
1:P:215:THR:O	1:P:216:TRP:HD1	1.98	0.46
1:P:225:ASP:HB2	1:P:226:ARG:CB	2.36	0.46
1:N:406:ASP:CG	1:P:341:HIS:HE2	2.16	0.46
1:P:59:HIS:HE1	1:P:515:LYS:HZ1	1.64	0.46
1:Q:109:TRP:CZ3	1:Q:485:LYS:HB2	2.48	0.46
1:S:529:ASN:O	1:T:124:ALA:HB2	2.14	0.46
1:F:528:TRP:CB	1:T:246:PRO:CG	164.46	0.46
1:U:355:PHE:HE1	1:U:357:GLN:NE2	2.14	0.46
1:W:215:THR:O	1:W:216:TRP:HD1	1.98	0.46
1:H:414:GLN:N	1:W:338:TRP:O	2.37	0.46
1:W:338:TRP:O	1:X:414:GLN:N	76.12	0.46
1:X:159:GLY:N	1:X:162:GLU:OE2	2.48	0.46
1:V:469:ALA:CB	1:X:439:TYR:CE1	2.86	0.46
1:Y:191:PHE:N	1:Y:191:PHE:CD1	2.81	0.46
1:Y:334:SER:OG	1:Y:435:THR:HG23	2.16	0.46
1:H:469:ALA:CB	1:Y:439:TYR:CE1	2.87	0.46
1:Z:179:ASP:O	1:Z:480:GLY:HA3	2.15	0.46
1:Z:66:ILE:O	1:Z:508:GLY:N	2.48	0.46
1:O:225:ASP:HB2	1:O:226:ARG:CB	2.36	0.46
1:K:406:ASP:CG	1:O:341:HIS:HE2	2.16	0.46
1:1:215:THR:O	1:1:216:TRP:HD1	1.98	0.46
1:3:292:SER:HB2	1:3:303:THR:O	2.14	0.46
1:3:355:PHE:HE1	1:3:357:GLN:NE2	2.14	0.46
1:5:100:SER:OG	1:5:100:SER:O	2.23	0.46
1:5:114:ALA:HB1	1:5:120:TRP:NE1	2.28	0.46
1:5:179:ASP:O	1:5:480:GLY:HA3	2.15	0.46
1:6:215:THR:O	1:6:216:TRP:HD1	1.98	0.46
1:6:267:TYR:CE2	1:6:479:PRO:HD3	2.50	0.46
1:A:334:SER:OG	1:A:435:THR:HG23	2.16	0.46
1:B:192:TYR:CD1	1:5:310:CYS:HB3	216.32	0.46
1:B:334:SER:OG	1:B:435:THR:HG23	2.16	0.46
1:B:179:ASP:O	1:B:480:GLY:HA3	2.15	0.46
1:E:334:SER:OG	1:E:435:THR:HG23	2.16	0.46
1:C:529:ASN:O	1:F:124:ALA:HB2	122.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:215:THR:O	1:G:216:TRP:HD1	1.98	0.46
1:G:334:SER:OG	1:G:435:THR:HG23	2.16	0.46
1:H:287:GLY:H	1:H:325:ARG:HH12	1.63	0.46
1:I:292:SER:HB2	1:I:303:THR:O	2.14	0.46
1:B:124:ALA:HB2	1:I:529:ASN:O	2.15	0.46
1:J:124:ALA:HB2	1:K:529:ASN:O	2.15	0.46
1:K:341:HIS:HE2	1:M:406:ASP:CG	135.76	0.46
1:L:334:SER:OG	1:L:435:THR:HG23	2.16	0.46
1:M:146:GLU:HA	1:M:147:ASN:HA	1.79	0.46
1:M:343:SER:OG	1:M:344:THR:N	2.48	0.46
1:N:109:TRP:CZ3	1:N:485:LYS:HB2	2.48	0.46
1:N:179:ASP:O	1:N:480:GLY:HA3	2.15	0.46
1:P:334:SER:OG	1:P:435:THR:HG23	2.16	0.46
1:P:161:GLN:HB3	1:Q:158:ALA:HA	1.97	0.46
1:S:298:GLU:HA	1:S:299:GLY:HA2	1.56	0.46
1:T:89:GLN:NE2	1:T:229:GLN:HB2	2.28	0.46
1:U:343:SER:OG	1:U:344:THR:N	2.48	0.46
1:W:245:THR:HA	1:W:246:PRO:HD2	1.50	0.46
1:X:158:ALA:HA	1:5:161:GLN:HB3	1.97	0.46
1:X:341:HIS:HE2	1:4:406:ASP:CG	2.16	0.46
1:N:161:GLN:HB3	1:Z:158:ALA:HA	218.98	0.46
1:Z:89:GLN:NE2	1:Z:229:GLN:HB2	2.28	0.46
1:Z:287:GLY:H	1:Z:325:ARG:HH12	1.63	0.46
1:Z:334:SER:OG	1:Z:435:THR:HG23	2.16	0.46
1:O:159:GLY:N	1:O:162:GLU:OE2	2.48	0.46
1:1:298:GLU:HA	1:1:299:GLY:HA2	1.56	0.46
1:2:129:LEU:HD11	1:2:136:ILE:HG21	1.96	0.46
1:S:161:GLN:HB3	1:3:158:ALA:HA	1.98	0.46
1:4:298:GLU:HA	1:4:299:GLY:HA2	1.56	0.46
1:5:298:GLU:HA	1:5:299:GLY:HA2	1.56	0.46
1:6:191:PHE:CD1	1:6:191:PHE:N	2.81	0.46
1:6:332:GLY:HA2	1:6:353:GLN:NE2	2.26	0.46
1:7:101:TYR:CZ	1:7:236:GLY:HA3	2.44	0.46
1:A:245:THR:HA	1:A:246:PRO:HD2	1.50	0.46
1:B:215:THR:O	1:B:216:TRP:HD1	1.98	0.46
1:B:355:PHE:HE1	1:B:357:GLN:NE2	2.14	0.46
1:E:215:THR:O	1:E:216:TRP:HD1	1.98	0.46
1:G:341:HIS:HE1	1:G:343:SER:HB2	1.81	0.46
1:G:98:ASN:HA	1:O:323:SER:HG	196.51	0.46
1:H:124:ALA:HB2	1:3:529:ASN:O	189.03	0.46
1:H:257:ARG:CG	1:Z:37:SER:CB	2.72	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:156:THR:O	1:I:163:THR:OG1	2.25	0.46
1:I:89:GLN:NE2	1:I:229:GLN:HB2	2.28	0.46
1:J:287:GLY:H	1:J:325:ARG:HH12	1.63	0.46
1:J:334:SER:OG	1:J:435:THR:HG23	2.16	0.46
1:K:298:GLU:HA	1:K:299:GLY:HA2	1.56	0.46
1:K:334:SER:OG	1:K:435:THR:HG23	2.16	0.46
1:L:215:THR:O	1:L:216:TRP:HD1	1.98	0.46
1:L:355:PHE:HE1	1:L:357:GLN:NE2	2.14	0.46
1:M:298:GLU:HA	1:M:299:GLY:HA2	1.56	0.46
1:N:158:ALA:HA	1:S:161:GLN:HB3	136.14	0.46
1:N:287:GLY:H	1:N:325:ARG:HH12	1.63	0.46
1:N:267:TYR:CE2	1:N:479:PRO:HD3	2.50	0.46
1:N:66:ILE:O	1:N:508:GLY:N	2.48	0.46
1:O:102:HIS:HE1	1:O:104:LYS:HE3	1.81	0.46
1:O:334:SER:OG	1:O:435:THR:HG23	2.16	0.46
1:P:102:HIS:HE1	1:P:104:LYS:HE3	1.81	0.46
1:Q:287:GLY:H	1:Q:325:ARG:HH12	1.63	0.46
1:R:287:GLY:H	1:R:325:ARG:HH12	1.63	0.46
1:R:355:PHE:HE1	1:R:357:GLN:NE2	2.14	0.46
1:S:334:SER:OG	1:S:435:THR:HG23	2.16	0.46
1:S:66:ILE:O	1:S:508:GLY:N	2.48	0.46
1:U:215:THR:O	1:U:216:TRP:HD1	1.98	0.46
1:U:245:THR:HA	1:U:246:PRO:HD2	1.50	0.46
1:U:334:SER:OG	1:U:435:THR:HG23	2.16	0.46
1:U:109:TRP:CZ3	1:U:485:LYS:HB2	2.48	0.46
1:O:161:GLN:HB3	1:V:158:ALA:HA	143.66	0.46
1:V:215:THR:O	1:V:216:TRP:HD1	1.98	0.46
1:V:341:HIS:HE1	1:V:343:SER:HB2	1.81	0.46
1:O:355:PHE:HE1	1:O:357:GLN:NE2	2.14	0.46
1:2:332:GLY:HA2	1:2:353:GLN:NE2	2.26	0.46
1:2:355:PHE:HE1	1:2:357:GLN:NE2	2.14	0.46
1:3:287:GLY:H	1:3:325:ARG:HH12	1.63	0.46
1:B:212:HIS:CE1	1:5:289:CYS:HA	213.22	0.46
1:5:287:GLY:H	1:5:325:ARG:HH12	1.63	0.46
1:5:390:MET:HA	1:5:391:ARG:HA	1.72	0.46
1:B:339:GLN:NE2	1:5:435:THR:HG21	223.44	0.46
1:7:215:THR:O	1:7:216:TRP:HD1	1.98	0.46
1:A:355:PHE:HE1	1:A:357:GLN:NE2	2.14	0.46
1:B:287:GLY:H	1:B:325:ARG:HH12	1.63	0.46
1:C:102:HIS:HE1	1:C:104:LYS:HE3	1.81	0.46
1:C:109:TRP:CZ3	1:C:485:LYS:HB2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:355:PHE:HE1	1:C:357:GLN:NE2	2.14	0.46
1:D:287:GLY:H	1:D:325:ARG:HH12	1.63	0.46
1:F:102:HIS:HE1	1:F:104:LYS:HE3	1.81	0.46
1:A:529:ASN:O	1:F:124:ALA:HB2	2.16	0.46
1:F:129:LEU:HD11	1:F:136:ILE:HG21	1.96	0.46
1:F:215:THR:O	1:F:216:TRP:HD1	1.98	0.46
1:F:355:PHE:HE1	1:F:357:GLN:NE2	2.14	0.46
1:G:355:PHE:HE1	1:G:357:GLN:NE2	2.14	0.46
1:H:334:SER:OG	1:H:435:THR:HG23	2.16	0.46
1:I:267:TYR:CE2	1:I:479:PRO:HD3	2.50	0.46
1:I:470:HIS:O	1:I:470:HIS:CG	2.69	0.46
1:I:161:GLN:HB3	1:J:158:ALA:HA	1.97	0.46
1:N:355:PHE:HE1	1:N:357:GLN:NE2	2.14	0.46
1:O:215:THR:O	1:O:216:TRP:HD1	1.98	0.46
1:R:334:SER:OG	1:R:435:THR:HG23	2.16	0.46
1:F:257:ARG:N	1:R:37:SER:HG	2.08	0.46
1:Q:161:GLN:HB3	1:S:158:ALA:HA	1.98	0.46
1:S:390:MET:HA	1:S:391:ARG:HA	1.72	0.46
1:S:109:TRP:CZ3	1:S:485:LYS:HB2	2.48	0.46
1:T:267:TYR:CE2	1:T:479:PRO:HD3	2.50	0.46
1:V:102:HIS:HE1	1:V:104:LYS:HE3	1.81	0.46
1:X:355:PHE:HE1	1:X:357:GLN:NE2	2.14	0.46
1:Y:134:ARG:O	1:Y:276:LEU:N	2.32	0.46
1:X:257:ARG:N	1:Y:37:SER:HG	25.92	0.46
1:Y:66:ILE:O	1:Y:508:GLY:N	2.48	0.46
1:J:158:ALA:HA	1:Z:161:GLN:HB3	15.73	0.46
1:Z:470:HIS:CG	1:Z:470:HIS:O	2.69	0.46
1:1:355:PHE:HE1	1:1:357:GLN:NE2	2.14	0.46
1:1:390:MET:HA	1:1:391:ARG:HA	1.72	0.46
1:1:404:GLN:HE22	1:1:443:ASP:HB2	1.81	0.46
1:2:109:TRP:CZ3	1:2:485:LYS:HB2	2.48	0.46
1:5:334:SER:OG	1:5:435:THR:HG23	2.16	0.46
1:6:470:HIS:CG	1:6:470:HIS:O	2.69	0.46
1:6:109:TRP:CZ3	1:6:485:LYS:HB2	2.48	0.46
1:A:215:THR:O	1:A:216:TRP:HD1	1.98	0.46
1:A:298:GLU:HA	1:A:299:GLY:HA2	1.56	0.46
1:A:287:GLY:H	1:A:325:ARG:HH12	1.63	0.46
1:A:343:SER:OG	1:A:344:THR:N	2.48	0.46
1:C:404:GLN:HE22	1:C:443:ASP:HB2	1.81	0.46
1:D:343:SER:OG	1:D:344:THR:N	2.48	0.46
1:E:102:HIS:HE1	1:E:104:LYS:HE3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:343:SER:OG	1:E:344:THR:N	2.48	0.46
1:E:355:PHE:HE1	1:E:357:GLN:NE2	2.14	0.46
1:F:109:TRP:CZ3	1:F:485:LYS:HB2	2.48	0.46
1:G:102:HIS:HE1	1:G:104:LYS:HE3	1.81	0.46
1:F:161:GLN:HB3	1:G:158:ALA:HA	1.98	0.46
1:G:158:ALA:HA	1:N:161:GLN:HB3	209.17	0.46
1:G:175:GLN:HE21	1:G:485:LYS:HE2	1.81	0.46
1:H:379:TYR:CD2	1:H:392:GLU:HG3	2.44	0.46
1:H:404:GLN:HE22	1:H:443:ASP:HB2	1.81	0.46
1:I:334:SER:OG	1:I:435:THR:HG23	2.16	0.46
1:J:89:GLN:NE2	1:J:229:GLN:HB2	2.29	0.46
1:J:245:THR:HA	1:J:246:PRO:HD2	1.50	0.46
1:J:298:GLU:HA	1:J:299:GLY:HA2	1.56	0.46
1:J:470:HIS:O	1:J:470:HIS:CG	2.69	0.46
1:L:158:ALA:HA	1:R:161:GLN:HB3	213.46	0.46
1:L:341:HIS:HE1	1:L:343:SER:HB2	1.81	0.46
1:N:334:SER:OG	1:N:435:THR:HG23	2.16	0.46
1:H:406:ASP:CG	1:O:341:HIS:HE2	207.79	0.46
1:O:341:HIS:HE1	1:O:343:SER:HB2	1.81	0.46
1:Q:355:PHE:HE1	1:Q:357:GLN:NE2	2.14	0.46
1:Q:66:ILE:O	1:Q:508:GLY:N	2.48	0.46
1:R:191:PHE:N	1:R:191:PHE:CD1	2.81	0.46
1:R:66:ILE:O	1:R:508:GLY:N	2.48	0.46
1:S:102:HIS:HE1	1:S:104:LYS:HE3	1.81	0.46
1:S:470:HIS:CG	1:S:470:HIS:O	2.69	0.46
1:T:156:THR:O	1:T:163:THR:OG1	2.25	0.46
1:T:334:SER:OG	1:T:435:THR:HG23	2.16	0.46
1:U:470:HIS:CG	1:U:470:HIS:O	2.69	0.46
1:U:559:PRO:HA	1:U:560:GLY:HA3	1.80	0.46
1:V:257:ARG:CG	1:W:37:SER:CB	2.72	0.46
1:Y:102:HIS:HE1	1:Y:104:LYS:HE3	1.81	0.46
1:Y:355:PHE:HE1	1:Y:357:GLN:NE2	2.14	0.46
1:Y:267:TYR:CE2	1:Y:479:PRO:HD3	2.50	0.46
1:Z:257:ARG:CG	1:0:37:SER:CB	2.73	0.46
1:0:96:THR:HG21	1:0:221:ILE:CG1	2.43	0.46
1:M:246:PRO:CG	1:1:528:TRP:CB	2.65	0.46
1:2:102:HIS:HE1	1:2:104:LYS:HE3	1.81	0.46
1:3:225:ASP:HB2	1:3:226:ARG:CB	2.36	0.46
1:3:470:HIS:O	1:3:470:HIS:CG	2.69	0.46
1:4:334:SER:OG	1:4:435:THR:HG23	2.16	0.46
1:4:470:HIS:O	1:4:470:HIS:CG	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:257:ARG:N	1:6:37:SER:HG	2.09	0.46
1:6:379:TYR:CD2	1:6:392:GLU:HG3	2.44	0.46
1:7:191:PHE:N	1:7:191:PHE:CD1	2.81	0.46
1:7:267:TYR:CE2	1:7:479:PRO:HD3	2.50	0.46
1:A:337:GLU:HA	1:A:338:TRP:C	2.37	0.46
1:B:102:HIS:HE1	1:B:104:LYS:HE3	1.81	0.46
1:B:284:ARG:HD2	1:J:346:GLY:CA	2.44	0.46
1:B:343:SER:OG	1:B:344:THR:N	2.48	0.46
1:B:533:LEU:HD21	1:E:127:GLN:HE21	102.62	0.46
1:D:175:GLN:HE21	1:D:485:LYS:HE2	1.81	0.46
1:F:470:HIS:O	1:F:470:HIS:CG	2.69	0.46
1:G:337:GLU:HA	1:G:338:TRP:C	2.36	0.46
1:H:102:HIS:HE1	1:H:104:LYS:HE3	1.81	0.46
1:G:529:ASN:O	1:H:124:ALA:HB2	2.15	0.46
1:H:318:ASN:HA	1:H:319:PRO:HA	1.81	0.46
1:J:102:HIS:HE1	1:J:104:LYS:HE3	1.81	0.46
1:K:284:ARG:HD2	1:L:346:GLY:CA	59.81	0.46
1:K:470:HIS:CG	1:K:470:HIS:O	2.69	0.46
1:K:66:ILE:O	1:K:508:GLY:N	2.48	0.46
1:M:175:GLN:HE21	1:M:485:LYS:HE2	1.81	0.46
1:N:213:VAL:O	1:N:215:THR:HG23	2.16	0.46
1:O:124:ALA:HB2	1:U:529:ASN:O	136.15	0.46
1:O:158:ALA:HA	1:3:161:GLN:HB3	1.98	0.46
1:O:89:GLN:NE2	1:O:229:GLN:HB2	2.29	0.46
1:O:470:HIS:O	1:O:470:HIS:CG	2.69	0.46
1:P:337:GLU:HA	1:P:338:TRP:C	2.37	0.46
1:P:343:SER:OG	1:P:344:THR:N	2.48	0.46
1:Q:124:ALA:HB2	1:R:529:ASN:O	2.15	0.46
1:Q:213:VAL:O	1:Q:215:THR:HG23	2.16	0.46
1:Q:334:SER:OG	1:Q:435:THR:HG23	2.16	0.46
1:R:102:HIS:HE1	1:R:104:LYS:HE3	1.81	0.46
1:S:223:GLN:HB2	1:S:229:GLN:O	2.16	0.46
1:S:341:HIS:HE1	1:S:343:SER:HB2	1.81	0.46
1:T:470:HIS:O	1:T:470:HIS:CG	2.69	0.46
1:U:102:HIS:HE1	1:U:104:LYS:HE3	1.81	0.46
1:U:534:PRO:HD3	1:U:563:MET:HE1	1.98	0.46
1:V:263:GLU:HA	1:V:264:SER:HA	1.76	0.46
1:V:175:GLN:HE21	1:V:485:LYS:HE2	1.81	0.46
1:V:529:ASN:O	1:X:124:ALA:HB2	74.50	0.46
1:W:244:PHE:HE2	1:W:246:PRO:HB3	1.63	0.46
1:W:470:HIS:CG	1:W:470:HIS:O	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:257:ARG:N	1:5:37:SER:HG	2.08	0.46
1:X:334:SER:OG	1:X:435:THR:HG23	2.16	0.46
1:Y:213:VAL:O	1:Y:215:THR:HG23	2.16	0.46
1:Y:89:GLN:NE2	1:Y:229:GLN:HB2	2.28	0.46
1:Y:404:GLN:HE22	1:Y:443:ASP:HB2	1.81	0.46
1:Y:470:HIS:O	1:Y:470:HIS:CG	2.69	0.46
1:N:124:ALA:HB2	1:Y:529:ASN:O	196.56	0.46
1:Z:102:HIS:HE1	1:Z:104:LYS:HE3	1.81	0.46
1:I:529:ASN:O	1:Z:124:ALA:HB2	102.33	0.46
1:Z:213:VAL:O	1:Z:215:THR:HG23	2.16	0.46
1:Z:223:GLN:HB2	1:Z:229:GLN:O	2.16	0.46
1:O:102:HIS:HE1	1:O:104:LYS:HE3	1.81	0.46
1:1:102:HIS:HE1	1:1:104:LYS:HE3	1.81	0.46
1:1:245:THR:HA	1:1:246:PRO:HD2	1.50	0.46
1:1:334:SER:OG	1:1:435:THR:HG23	2.16	0.46
1:3:102:HIS:HE1	1:3:104:LYS:HE3	1.81	0.46
1:4:215:THR:O	1:4:216:TRP:HD1	1.98	0.46
1:4:404:GLN:HE22	1:4:443:ASP:HB2	1.81	0.46
1:6:245:THR:HA	1:6:246:PRO:HD2	1.50	0.46
1:6:66:ILE:O	1:6:508:GLY:N	2.48	0.46
1:7:263:GLU:HA	1:7:264:SER:HA	1.76	0.46
1:A:102:HIS:HE1	1:A:104:LYS:HE3	1.81	0.46
1:A:175:GLN:HE21	1:A:485:LYS:HE2	1.81	0.46
1:D:334:SER:OG	1:D:435:THR:HG23	2.16	0.46
1:E:213:VAL:O	1:E:215:THR:HG23	2.16	0.46
1:E:337:GLU:HA	1:E:338:TRP:C	2.37	0.46
1:F:334:SER:OG	1:F:435:THR:HG23	2.16	0.46
1:K:215:THR:O	1:K:216:TRP:HD1	1.98	0.46
1:K:89:GLN:NE2	1:K:229:GLN:HB2	2.29	0.46
1:K:341:HIS:HE1	1:K:343:SER:HB2	1.81	0.46
1:L:404:GLN:HE22	1:L:443:ASP:HB2	1.81	0.46
1:M:245:THR:HA	1:M:246:PRO:HD2	1.50	0.46
1:N:102:HIS:HE1	1:N:104:LYS:HE3	1.81	0.46
1:N:223:GLN:HB2	1:N:229:GLN:O	2.16	0.46
1:N:298:GLU:HA	1:N:299:GLY:HA2	1.56	0.46
1:P:175:GLN:HE21	1:P:485:LYS:HE2	1.81	0.46
1:P:355:PHE:HE1	1:P:357:GLN:NE2	2.14	0.46
1:Q:215:THR:O	1:Q:216:TRP:HD1	1.98	0.46
1:Q:245:THR:HA	1:Q:246:PRO:HD2	1.50	0.46
1:Q:337:GLU:HA	1:Q:338:TRP:C	2.37	0.46
1:S:124:ALA:HB2	1:T:529:ASN:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:341:HIS:HE1	1:T:343:SER:HB2	1.81	0.46
1:T:355:PHE:HE1	1:T:357:GLN:NE2	2.14	0.46
1:U:287:GLY:H	1:U:325:ARG:HH12	1.63	0.46
1:U:337:GLU:HA	1:U:338:TRP:C	2.37	0.46
1:V:343:SER:OG	1:V:344:THR:N	2.48	0.46
1:W:175:GLN:HE21	1:W:485:LYS:HE2	1.81	0.46
1:W:287:GLY:H	1:W:325:ARG:HH12	1.63	0.46
1:W:404:GLN:HE22	1:W:443:ASP:HB2	1.81	0.46
1:X:102:HIS:HE1	1:X:104:LYS:HE3	1.81	0.46
1:X:404:GLN:HE22	1:X:443:ASP:HB2	1.81	0.46
1:X:175:GLN:HE21	1:X:485:LYS:HE2	1.81	0.46
1:Z:215:THR:O	1:Z:216:TRP:HD1	1.98	0.46
1:Z:245:THR:HA	1:Z:246:PRO:HD2	1.50	0.46
1:Z:355:PHE:HE1	1:Z:357:GLN:NE2	2.14	0.46
1:0:114:ALA:HB1	1:0:120:TRP:NE1	2.28	0.46
1:0:404:GLN:HE22	1:0:443:ASP:HB2	1.81	0.46
1:0:175:GLN:HE21	1:0:485:LYS:HE2	1.81	0.46
1:M:158:ALA:HA	1:2:161:GLN:HB3	1.97	0.46
1:2:341:HIS:HE1	1:2:343:SER:HB2	1.81	0.46
1:2:334:SER:OG	1:2:435:THR:HG23	2.16	0.46
1:3:89:GLN:NE2	1:3:229:GLN:HB2	2.28	0.46
1:3:334:SER:OG	1:3:435:THR:HG23	2.16	0.46
1:5:341:HIS:HE1	1:5:343:SER:HB2	1.81	0.46
1:6:129:LEU:HD11	1:6:136:ILE:HG21	1.96	0.46
1:7:175:GLN:HE21	1:7:485:LYS:HE2	1.81	0.46
1:7:343:SER:OG	1:7:344:THR:N	2.48	0.46
1:7:355:PHE:HE1	1:7:357:GLN:NE2	2.14	0.46
1:A:284:ARG:HD2	1:5:346:GLY:CA	178.19	0.46
1:A:404:GLN:HE22	1:A:443:ASP:HB2	1.81	0.46
1:A:470:HIS:CG	1:A:470:HIS:O	2.69	0.46
1:B:404:GLN:HE22	1:B:443:ASP:HB2	1.81	0.46
1:B:470:HIS:CG	1:B:470:HIS:O	2.69	0.46
1:C:213:VAL:O	1:C:215:THR:HG23	2.16	0.46
1:C:223:GLN:HB2	1:C:229:GLN:O	2.16	0.46
1:B:35:GLY:C	1:C:257:ARG:HH11	17.29	0.46
1:C:470:HIS:CG	1:C:470:HIS:O	2.69	0.46
1:D:215:THR:O	1:D:216:TRP:HD1	1.98	0.46
1:D:337:GLU:HA	1:D:338:TRP:C	2.37	0.46
1:D:470:HIS:O	1:D:470:HIS:CG	2.69	0.46
1:E:223:GLN:HB2	1:E:229:GLN:O	2.16	0.46
1:F:223:GLN:HB2	1:F:229:GLN:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:375:GLU:OE2	1:F:445:HIS:NE2	2.49	0.46
1:A:406:ASP:CG	1:G:341:HIS:HE2	2.16	0.46
1:G:431:SER:OG	1:G:433:HIS:CD2	2.68	0.46
1:H:298:GLU:HA	1:H:299:GLY:HA2	1.56	0.46
1:I:213:VAL:O	1:I:215:THR:HG23	2.16	0.46
1:I:287:GLY:H	1:I:325:ARG:HH12	1.63	0.46
1:I:355:PHE:HE1	1:I:357:GLN:NE2	2.14	0.46
1:I:109:TRP:CZ3	1:I:485:LYS:HB2	2.48	0.46
1:K:355:PHE:HE1	1:K:357:GLN:NE2	2.14	0.46
1:K:404:GLN:HE22	1:K:443:ASP:HB2	1.81	0.46
1:B:346:GLY:CA	1:L:284:ARG:HD2	2.44	0.46
1:M:102:HIS:HE1	1:M:104:LYS:HE3	1.81	0.46
1:K:346:GLY:CA	1:M:284:ARG:HD2	133.66	0.46
1:N:341:HIS:HE1	1:N:343:SER:HB2	1.81	0.46
1:O:223:GLN:HB2	1:O:229:GLN:O	2.16	0.46
1:O:245:THR:HA	1:O:246:PRO:HD2	1.50	0.46
1:G:346:GLY:CA	1:O:284:ARG:HD2	182.11	0.46
1:O:431:SER:OG	1:O:433:HIS:CD2	2.68	0.46
1:O:66:ILE:O	1:O:508:GLY:N	2.48	0.46
1:P:341:HIS:HE1	1:P:343:SER:HB2	1.81	0.46
1:R:318:ASN:HA	1:R:319:PRO:HA	1.81	0.46
1:R:375:GLU:OE2	1:R:445:HIS:NE2	2.49	0.46
1:R:386:ASP:H	1:R:387:GLN:HA	1.79	0.46
1:R:404:GLN:HE22	1:R:443:ASP:HB2	1.81	0.46
1:R:267:TYR:CE2	1:R:479:PRO:HD3	2.50	0.46
1:S:213:VAL:O	1:S:215:THR:HG23	2.16	0.46
1:S:355:PHE:HE1	1:S:357:GLN:NE2	2.14	0.46
1:S:175:GLN:HE21	1:S:485:LYS:HE2	1.81	0.46
1:T:213:VAL:O	1:T:215:THR:HG23	2.16	0.46
1:T:223:GLN:HB2	1:T:229:GLN:O	2.16	0.46
1:T:287:GLY:H	1:T:325:ARG:HH12	1.63	0.46
1:U:491:THR:OG1	1:U:502:SER:O	2.30	0.46
1:V:334:SER:OG	1:V:435:THR:HG23	2.16	0.46
1:W:102:HIS:HE1	1:W:104:LYS:HE3	1.81	0.46
1:W:355:PHE:HE1	1:W:357:GLN:NE2	2.14	0.46
1:X:257:ARG:CG	1:Y:37:SER:CB	24.58	0.46
1:Y:337:GLU:HA	1:Y:338:TRP:C	2.37	0.46
1:Y:375:GLU:OE2	1:Y:445:HIS:NE2	2.49	0.46
1:Z:337:GLU:HA	1:Z:338:TRP:C	2.37	0.46
1:Z:341:HIS:HE1	1:Z:343:SER:HB2	1.81	0.46
1:Z:175:GLN:HE21	1:Z:485:LYS:HE2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:109:TRP:CZ3	1:0:485:LYS:HB2	2.48	0.45
1:0:375:GLU:OE2	1:0:445:HIS:NE2	2.49	0.45
1:2:379:TYR:CD2	1:2:392:GLU:HG3	2.44	0.45
1:3:375:GLU:OE2	1:3:445:HIS:NE2	2.50	0.45
1:4:355:PHE:HE1	1:4:357:GLN:NE2	2.14	0.45
1:5:102:HIS:HE1	1:5:104:LYS:HE3	1.81	0.45
1:5:375:GLU:OE2	1:5:445:HIS:NE2	2.49	0.45
1:6:102:HIS:HE1	1:6:104:LYS:HE3	1.81	0.45
1:I:161:GLN:HB3	1:6:158:ALA:HA	136.29	0.45
1:7:213:VAL:O	1:7:215:THR:HG23	2.16	0.45
1:W:37:SER:CB	1:7:257:ARG:CG	146.85	0.45
1:7:337:GLU:HA	1:7:338:TRP:C	2.37	0.45
1:7:341:HIS:HE1	1:7:343:SER:HB2	1.81	0.45
1:7:404:GLN:HE22	1:7:443:ASP:HB2	1.81	0.45
1:A:375:GLU:OE2	1:A:445:HIS:NE2	2.50	0.45
1:A:469:ALA:HB2	1:I:439:TYR:CZ	2.49	0.45
1:B:89:GLN:NE2	1:B:229:GLN:HB2	2.28	0.45
1:B:175:GLN:HE21	1:B:485:LYS:HE2	1.81	0.45
1:D:213:VAL:O	1:D:215:THR:HG23	2.16	0.45
1:D:223:GLN:HB2	1:D:229:GLN:O	2.16	0.45
1:D:284:ARG:HD2	1:N:346:GLY:CA	2.44	0.45
1:D:341:HIS:HE1	1:D:343:SER:HB2	1.81	0.45
1:D:375:GLU:OE2	1:D:445:HIS:NE2	2.50	0.45
1:E:146:GLU:HA	1:E:147:ASN:HA	1.79	0.45
1:E:470:HIS:CG	1:E:470:HIS:O	2.69	0.45
1:D:158:ALA:HA	1:F:161:GLN:HB3	125.59	0.45
1:F:213:VAL:O	1:F:215:THR:HG23	2.16	0.45
1:F:341:HIS:HE1	1:F:343:SER:HB2	1.81	0.45
1:F:431:SER:OG	1:F:433:HIS:CD2	2.68	0.45
1:H:175:GLN:HE21	1:H:485:LYS:HE2	1.81	0.45
1:G:406:ASP:CG	1:H:341:HIS:HE2	71.70	0.45
1:I:223:GLN:HB2	1:I:229:GLN:O	2.16	0.45
1:I:341:HIS:HE1	1:I:343:SER:HB2	1.81	0.45
1:I:390:MET:HA	1:I:391:ARG:HA	1.72	0.45
1:J:375:GLU:OE2	1:J:445:HIS:NE2	2.50	0.45
1:J:390:MET:HA	1:J:391:ARG:HA	1.72	0.45
1:J:161:GLN:HB3	1:K:158:ALA:HA	122.96	0.45
1:K:213:VAL:O	1:K:215:THR:HG23	2.16	0.45
1:L:146:GLU:HA	1:L:147:ASN:HA	1.79	0.45
1:L:390:MET:HA	1:L:391:ARG:HA	1.72	0.45
1:L:431:SER:OG	1:L:433:HIS:CD2	2.68	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:470:HIS:CG	1:L:470:HIS:O	2.69	0.45
1:L:175:GLN:HE21	1:L:485:LYS:HE2	1.81	0.45
1:M:191:PHE:N	1:M:191:PHE:CD1	2.81	0.45
1:M:341:HIS:HE1	1:M:343:SER:HB2	1.81	0.45
1:N:404:GLN:HE22	1:N:443:ASP:HB2	1.81	0.45
1:O:213:VAL:O	1:O:215:THR:HG23	2.16	0.45
1:O:375:GLU:OE2	1:O:445:HIS:NE2	2.50	0.45
1:P:213:VAL:O	1:P:215:THR:HG23	2.16	0.45
1:P:223:GLN:HB2	1:P:229:GLN:O	2.16	0.45
1:Q:223:GLN:HB2	1:Q:229:GLN:O	2.16	0.45
1:Q:470:HIS:O	1:Q:470:HIS:CG	2.69	0.45
1:R:470:HIS:CG	1:R:470:HIS:O	2.69	0.45
1:S:337:GLU:HA	1:S:338:TRP:C	2.37	0.45
1:T:102:HIS:HE1	1:T:104:LYS:HE3	1.81	0.45
1:U:404:GLN:HE22	1:U:443:ASP:HB2	1.81	0.45
1:U:66:ILE:O	1:U:508:GLY:N	2.48	0.45
1:V:213:VAL:O	1:V:215:THR:HG23	2.16	0.45
1:V:257:ARG:HG2	1:W:37:SER:CA	2.32	0.45
1:V:337:GLU:HA	1:V:338:TRP:C	2.37	0.45
1:V:355:PHE:HE1	1:V:357:GLN:NE2	2.14	0.45
1:V:431:SER:OG	1:V:433:HIS:CD2	2.68	0.45
1:V:404:GLN:HE22	1:V:443:ASP:HB2	1.81	0.45
1:V:470:HIS:O	1:V:470:HIS:CG	2.69	0.45
1:W:225:ASP:HB2	1:W:226:ARG:CB	2.36	0.45
1:W:318:ASN:HA	1:W:319:PRO:HA	1.81	0.45
1:X:158:ALA:HA	1:Y:161:GLN:HB3	14.53	0.45
1:Y:223:GLN:HB2	1:Y:229:GLN:O	2.16	0.45
1:Y:431:SER:OG	1:Y:433:HIS:CD2	2.68	0.45
1:Z:134:ARG:O	1:Z:276:LEU:N	2.32	0.45
1:Z:390:MET:HA	1:Z:391:ARG:HA	1.72	0.45
1:Z:431:SER:OG	1:Z:433:HIS:CD2	2.68	0.45
1:1:375:GLU:OE2	1:1:445:HIS:NE2	2.49	0.45
1:2:213:VAL:O	1:2:215:THR:HG23	2.16	0.45
1:2:298:GLU:HA	1:2:299:GLY:HA2	1.56	0.45
1:6:375:GLU:OE2	1:6:445:HIS:NE2	2.50	0.45
1:Y:158:ALA:HA	1:7:161:GLN:HB3	143.01	0.45
1:7:287:GLY:H	1:7:325:ARG:HH12	1.63	0.45
1:A:213:VAL:O	1:A:215:THR:HG23	2.16	0.45
1:A:431:SER:OG	1:A:433:HIS:CD2	2.68	0.45
1:A:66:ILE:O	1:A:508:GLY:N	2.48	0.45
1:A:559:PRO:HA	1:A:560:GLY:HA3	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:213:VAL:O	1:B:215:THR:HG23	2.16	0.45
1:A:349:ILE:CD1	1:B:324:THR:HG22	77.76	0.45
1:B:375:GLU:OE2	1:B:445:HIS:NE2	2.49	0.45
1:B:75:ARG:HD2	1:4:549:ALA:O	218.44	0.45
1:C:375:GLU:OE2	1:C:445:HIS:NE2	2.50	0.45
1:D:158:ALA:HA	1:E:161:GLN:HB3	1.98	0.45
1:E:287:GLY:H	1:E:325:ARG:HH12	1.63	0.45
1:E:431:SER:OG	1:E:433:HIS:CD2	2.68	0.45
1:E:404:GLN:HE22	1:E:443:ASP:HB2	1.81	0.45
1:F:175:GLN:HE21	1:F:485:LYS:HE2	1.81	0.45
1:G:213:VAL:O	1:G:215:THR:HG23	2.16	0.45
1:G:223:GLN:HB2	1:G:229:GLN:O	2.16	0.45
1:G:470:HIS:O	1:G:470:HIS:CG	2.69	0.45
1:H:158:ALA:HA	1:Z:161:GLN:HB3	1.98	0.45
1:H:213:VAL:O	1:H:215:THR:HG23	2.16	0.45
1:H:284:ARG:HD2	1:O:346:GLY:CA	201.51	0.45
1:H:337:GLU:HA	1:H:338:TRP:C	2.37	0.45
1:J:341:HIS:HE1	1:J:343:SER:HB2	1.81	0.45
1:K:175:GLN:HE21	1:K:485:LYS:HE2	1.81	0.45
1:L:102:HIS:HE1	1:L:104:LYS:HE3	1.81	0.45
1:L:287:GLY:H	1:L:325:ARG:HH12	1.63	0.45
1:L:337:GLU:HA	1:L:338:TRP:C	2.37	0.45
1:L:406:ASP:CG	1:M:341:HIS:HE2	82.72	0.45
1:M:375:GLU:OE2	1:M:445:HIS:NE2	2.50	0.45
1:N:470:HIS:CG	1:N:470:HIS:O	2.69	0.45
1:O:257:ARG:CG	1:3:37:SER:CB	2.73	0.45
1:O:355:PHE:HE1	1:O:357:GLN:NE2	2.14	0.45
1:N:346:GLY:CA	1:P:284:ARG:HD2	37.49	0.45
1:Q:284:ARG:HD2	1:R:346:GLY:CA	63.81	0.45
1:Q:341:HIS:HE1	1:Q:343:SER:HB2	1.81	0.45
1:Q:343:SER:OG	1:Q:344:THR:N	2.48	0.45
1:Q:375:GLU:OE2	1:Q:445:HIS:NE2	2.49	0.45
1:R:337:GLU:HA	1:R:338:TRP:C	2.37	0.45
1:R:341:HIS:HE1	1:R:343:SER:HB2	1.81	0.45
1:T:375:GLU:OE2	1:T:445:HIS:NE2	2.50	0.45
1:T:404:GLN:HE22	1:T:443:ASP:HB2	1.81	0.45
1:R:158:ALA:HA	1:V:161:GLN:HB3	1.98	0.45
1:V:375:GLU:OE2	1:V:445:HIS:NE2	2.49	0.45
1:X:213:VAL:O	1:X:215:THR:HG23	2.16	0.45
1:X:375:GLU:OE2	1:X:445:HIS:NE2	2.50	0.45
1:Y:318:ASN:HA	1:Y:319:PRO:HA	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:109:TRP:CZ3	1:Z:485:LYS:HB2	2.48	0.45
1:0:343:SER:OG	1:0:344:THR:N	2.48	0.45
1:1:332:GLY:HA2	1:1:353:GLN:NE2	2.26	0.45
1:1:337:GLU:HA	1:1:338:TRP:C	2.37	0.45
1:1:353:GLN:NE2	1:1:404:GLN:HB3	2.32	0.45
1:1:470:HIS:O	1:1:470:HIS:CG	2.69	0.45
1:4:175:GLN:HE21	1:4:485:LYS:HE2	1.81	0.45
1:4:223:GLN:HB2	1:4:229:GLN:O	2.16	0.45
1:5:223:GLN:HB2	1:5:229:GLN:O	2.16	0.45
1:7:114:ALA:HB1	1:7:120:TRP:NE1	2.28	0.45
1:7:134:ARG:O	1:7:276:LEU:N	2.32	0.45
1:W:37:SER:CA	1:7:257:ARG:HG2	146.13	0.45
1:C:245:THR:HA	1:C:246:PRO:HD2	1.50	0.45
1:C:353:GLN:NE2	1:C:404:GLN:HB3	2.32	0.45
1:D:284:ARG:HD2	1:E:346:GLY:CA	100.70	0.45
1:E:284:ARG:HD2	1:Q:346:GLY:CA	2.44	0.45
1:D:406:ASP:CG	1:E:341:HIS:HE2	91.65	0.45
1:E:353:GLN:NE2	1:E:404:GLN:HB3	2.32	0.45
1:F:158:ALA:HA	1:H:161:GLN:HB3	130.80	0.45
1:F:353:GLN:NE2	1:F:404:GLN:HB3	2.32	0.45
1:G:375:GLU:OE2	1:G:445:HIS:NE2	2.50	0.45
1:G:404:GLN:HE22	1:G:443:ASP:HB2	1.81	0.45
1:H:245:THR:HA	1:H:246:PRO:HD2	1.50	0.45
1:H:375:GLU:OE2	1:H:445:HIS:NE2	2.50	0.45
1:I:102:HIS:HE1	1:I:104:LYS:HE3	1.81	0.45
1:I:246:PRO:CG	1:2:528:TRP:CB	153.31	0.45
1:I:375:GLU:OE2	1:I:445:HIS:NE2	2.50	0.45
1:I:404:GLN:HE22	1:I:443:ASP:HB2	1.81	0.45
1:I:175:GLN:HE21	1:I:485:LYS:HE2	1.81	0.45
1:J:223:GLN:HB2	1:J:229:GLN:O	2.16	0.45
1:K:223:GLN:HB2	1:K:229:GLN:O	2.16	0.45
1:K:431:SER:OG	1:K:433:HIS:CD2	2.68	0.45
1:K:161:GLN:HB3	1:L:158:ALA:HA	1.98	0.45
1:L:213:VAL:O	1:L:215:THR:HG23	2.16	0.45
1:L:375:GLU:OE2	1:L:445:HIS:NE2	2.50	0.45
1:L:66:ILE:O	1:L:508:GLY:N	2.48	0.45
1:J:529:ASN:O	1:M:124:ALA:HB2	121.16	0.45
1:G:161:GLN:HB3	1:M:158:ALA:HA	216.90	0.45
1:M:223:GLN:HB2	1:M:229:GLN:O	2.16	0.45
1:M:334:SER:OG	1:M:435:THR:HG23	2.16	0.45
1:M:337:GLU:HA	1:M:338:TRP:C	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:375:GLU:OE2	1:N:445:HIS:NE2	2.50	0.45
1:O:175:GLN:HE21	1:O:485:LYS:HE2	1.81	0.45
1:P:353:GLN:NE2	1:P:404:GLN:HB3	2.32	0.45
1:F:469:ALA:CB	1:Q:439:TYR:CE1	2.87	0.45
1:S:353:GLN:NE2	1:S:404:GLN:HB3	2.32	0.45
1:T:175:GLN:HE21	1:T:485:LYS:HE2	1.81	0.45
1:T:257:ARG:HG2	1:X:37:SER:CA	104.99	0.45
1:T:353:GLN:NE2	1:T:404:GLN:HB3	2.32	0.45
1:T:109:TRP:CZ3	1:T:485:LYS:HB2	2.48	0.45
1:T:161:GLN:HB3	1:U:158:ALA:HA	1.98	0.45
1:U:375:GLU:OE2	1:U:445:HIS:NE2	2.50	0.45
1:V:223:GLN:HB2	1:V:229:GLN:O	2.16	0.45
1:V:98:ASN:HA	1:X:323:SER:HG	1.75	0.45
1:W:161:GLN:HB3	1:7:158:ALA:HA	209.17	0.45
1:W:191:PHE:CD1	1:W:191:PHE:N	2.81	0.45
1:X:343:SER:OG	1:X:344:THR:N	2.48	0.45
1:X:59:HIS:HE1	1:X:515:LYS:HZ1	1.69	0.45
1:X:161:GLN:HB3	1:Y:158:ALA:HA	1.97	0.45
1:Y:353:GLN:NE2	1:Y:404:GLN:HB3	2.32	0.45
1:Z:353:GLN:NE2	1:Z:404:GLN:HB3	2.32	0.45
1:L:161:GLN:HB3	1:1:158:ALA:HA	1.98	0.45
1:1:223:GLN:HB2	1:1:229:GLN:O	2.16	0.45
1:1:341:HIS:HE1	1:1:343:SER:HB2	1.81	0.45
1:2:287:GLY:H	1:2:325:ARG:HH12	1.63	0.45
1:2:353:GLN:NE2	1:2:404:GLN:HB3	2.32	0.45
1:2:59:HIS:HE1	1:2:515:LYS:HZ1	1.64	0.45
1:4:353:GLN:NE2	1:4:404:GLN:HB3	2.32	0.45
1:4:431:SER:OG	1:4:433:HIS:CD2	2.68	0.45
1:5:337:GLU:HA	1:5:338:TRP:C	2.37	0.45
1:5:353:GLN:NE2	1:5:404:GLN:HB3	2.32	0.45
1:7:334:SER:OG	1:7:435:THR:HG23	2.16	0.45
1:A:89:GLN:NE2	1:A:229:GLN:HB2	2.28	0.45
1:A:310:CYS:HB3	1:G:192:TYR:CD1	2.51	0.45
1:A:341:HIS:HE1	1:A:343:SER:HB2	1.81	0.45
1:A:439:TYR:CE1	1:G:469:ALA:CB	2.86	0.45
1:B:337:GLU:HA	1:B:338:TRP:C	2.37	0.45
1:B:342:TYR:H	1:5:411:ASN:ND2	228.57	0.45
1:B:431:SER:OG	1:B:433:HIS:CD2	2.68	0.45
1:C:431:SER:OG	1:C:433:HIS:CD2	2.68	0.45
1:D:353:GLN:NE2	1:D:404:GLN:HB3	2.32	0.45
1:G:353:GLN:NE2	1:G:404:GLN:HB3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:59:HIS:HE1	1:H:515:LYS:HZ1	1.63	0.45
1:I:353:GLN:NE2	1:I:404:GLN:HB3	2.32	0.45
1:J:161:GLN:HB3	1:O:158:ALA:HA	1.98	0.45
1:J:284:ARG:HD2	1:L:346:GLY:CA	2.44	0.45
1:J:353:GLN:NE2	1:J:404:GLN:HB3	2.32	0.45
1:K:353:GLN:NE2	1:K:404:GLN:HB3	2.32	0.45
1:K:528:TRP:HB3	1:L:246:PRO:HG3	35.59	0.45
1:L:353:GLN:NE2	1:L:404:GLN:HB3	2.32	0.45
1:C:346:GLY:CA	1:M:284:ARG:HD2	2.44	0.45
1:M:353:GLN:NE2	1:M:404:GLN:HB3	2.32	0.45
1:M:404:GLN:HE22	1:M:443:ASP:HB2	1.81	0.45
1:O:179:ASP:OD1	1:O:251:ILE:HG21	2.17	0.45
1:O:353:GLN:NE2	1:O:404:GLN:HB3	2.32	0.45
1:P:287:GLY:H	1:P:325:ARG:HH12	1.63	0.45
1:S:284:ARG:HD2	1:U:346:GLY:CA	2.44	0.45
1:S:375:GLU:OE2	1:S:445:HIS:NE2	2.49	0.45
1:S:404:GLN:HE22	1:S:443:ASP:HB2	1.81	0.45
1:T:215:THR:O	1:T:216:TRP:HD1	1.98	0.45
1:A:124:ALA:HB2	1:T:529:ASN:O	122.26	0.45
1:U:341:HIS:HE1	1:U:343:SER:HB2	1.81	0.45
1:U:353:GLN:NE2	1:U:404:GLN:HB3	2.32	0.45
1:U:431:SER:OG	1:U:433:HIS:CD2	2.68	0.45
1:U:406:ASP:CG	1:V:341:HIS:HE2	71.70	0.45
1:W:179:ASP:OD1	1:W:251:ILE:HG21	2.17	0.45
1:W:341:HIS:HE1	1:W:343:SER:HB2	1.81	0.45
1:X:341:HIS:HE1	1:X:343:SER:HB2	1.81	0.45
1:X:66:ILE:O	1:X:508:GLY:N	2.48	0.45
1:Y:287:GLY:H	1:Y:325:ARG:HH12	1.63	0.45
1:Y:175:GLN:HE21	1:Y:485:LYS:HE2	1.81	0.45
1:Z:284:ARG:HD2	1:6:346:GLY:CA	161.10	0.45
1:H:257:ARG:N	1:Z:37:SER:HG	2.10	0.45
1:Z:158:ALA:HA	1:O:161:GLN:HB3	1.97	0.45
1:O:341:HIS:HE1	1:O:343:SER:HB2	1.81	0.45
1:2:375:GLU:OE2	1:2:445:HIS:NE2	2.49	0.45
1:3:341:HIS:HE1	1:3:343:SER:HB2	1.81	0.45
1:4:529:ASN:O	1:5:124:ALA:HB2	2.16	0.45
1:6:179:ASP:OD1	1:6:251:ILE:HG21	2.17	0.45
1:6:223:GLN:HB2	1:6:229:GLN:O	2.16	0.45
1:6:337:GLU:HA	1:6:338:TRP:C	2.37	0.45
1:7:102:HIS:HE1	1:7:104:LYS:HE3	1.81	0.45
1:A:223:GLN:HB2	1:A:229:GLN:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:353:GLN:NE2	1:A:404:GLN:HB3	2.32	0.45
1:B:158:ALA:HA	1:C:161:GLN:HB3	1.98	0.45
1:B:223:GLN:HB2	1:B:229:GLN:O	2.16	0.45
1:B:243:GLN:HG2	1:5:527:GLN:HE21	199.73	0.45
1:A:338:TRP:N	1:B:414:GLN:O	89.77	0.45
1:B:66:ILE:O	1:B:508:GLY:N	2.48	0.45
1:C:337:GLU:HA	1:C:338:TRP:C	2.37	0.45
1:C:341:HIS:HE2	1:M:406:ASP:CG	2.16	0.45
1:C:341:HIS:HE1	1:C:343:SER:HB2	1.81	0.45
1:D:134:ARG:O	1:D:276:LEU:N	2.32	0.45
1:F:179:ASP:OD1	1:F:251:ILE:HG21	2.17	0.45
1:G:246:PRO:HG3	1:O:528:TRP:HB3	142.12	0.45
1:I:215:THR:O	1:I:216:TRP:HD1	1.98	0.45
1:J:284:ARG:HD2	1:2:346:GLY:CA	132.05	0.45
1:J:337:GLU:HA	1:J:338:TRP:C	2.37	0.45
1:M:470:HIS:CG	1:M:470:HIS:O	2.69	0.45
1:N:175:GLN:HE21	1:N:485:LYS:HE2	1.81	0.45
1:Q:179:ASP:OD1	1:Q:251:ILE:HG21	2.17	0.45
1:Q:175:GLN:HE21	1:Q:485:LYS:HE2	1.81	0.45
1:F:158:ALA:HA	1:R:161:GLN:HB3	1.98	0.45
1:R:175:GLN:HE21	1:R:485:LYS:HE2	1.81	0.45
1:R:223:GLN:HB2	1:R:229:GLN:O	2.16	0.45
1:R:284:ARG:HD2	1:S:346:GLY:CA	2.44	0.45
1:S:134:ARG:O	1:S:276:LEU:N	2.32	0.45
1:T:245:THR:HA	1:T:246:PRO:HD2	1.50	0.45
1:A:161:GLN:HB3	1:U:158:ALA:HA	208.23	0.45
1:P:158:ALA:HA	1:U:161:GLN:HB3	137.21	0.45
1:U:179:ASP:OD1	1:U:251:ILE:HG21	2.17	0.45
1:U:223:GLN:HB2	1:U:229:GLN:O	2.16	0.45
1:V:134:ARG:O	1:V:276:LEU:N	2.32	0.45
1:V:353:GLN:NE2	1:V:404:GLN:HB3	2.32	0.45
1:X:245:THR:HA	1:X:246:PRO:HD2	1.50	0.45
1:O:158:ALA:HA	1:Y:161:GLN:HB3	218.98	0.45
1:Y:341:HIS:HE1	1:Y:343:SER:HB2	1.81	0.45
1:Z:404:GLN:HE22	1:Z:443:ASP:HB2	1.81	0.45
1:Z:375:GLU:OE2	1:Z:445:HIS:NE2	2.50	0.45
1:0:334:SER:OG	1:0:435:THR:HG23	2.16	0.45
1:1:134:ARG:O	1:1:276:LEU:N	2.32	0.45
1:2:215:THR:O	1:2:216:TRP:HD1	1.98	0.45
1:3:213:VAL:O	1:3:215:THR:HG23	2.16	0.45
1:F:346:GLY:CA	1:3:284:ARG:HD2	146.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:353:GLN:NE2	1:3:404:GLN:HB3	2.32	0.45
1:4:89:GLN:NE2	1:4:229:GLN:HB2	2.28	0.45
1:6:287:GLY:H	1:6:325:ARG:HH12	1.63	0.45
1:6:353:GLN:NE2	1:6:404:GLN:HB3	2.32	0.45
1:6:404:GLN:HE22	1:6:443:ASP:HB2	1.81	0.45
1:0:323:SER:HG	1:7:98:ASN:HA	1.75	0.45
1:B:341:HIS:HE1	1:B:343:SER:HB2	1.81	0.45
1:B:353:GLN:NE2	1:B:404:GLN:HB3	2.32	0.45
1:C:528:TRP:CB	1:D:246:PRO:CG	100.23	0.45
1:D:102:HIS:HE1	1:D:104:LYS:HE3	1.81	0.45
1:D:179:ASP:OD1	1:D:251:ILE:HG21	2.17	0.45
1:D:404:GLN:HE22	1:D:443:ASP:HB2	1.81	0.45
1:D:66:ILE:O	1:D:508:GLY:N	2.48	0.45
1:E:341:HIS:HE1	1:E:343:SER:HB2	1.81	0.45
1:F:298:GLU:HA	1:F:299:GLY:HA2	1.56	0.45
1:F:337:GLU:HA	1:F:338:TRP:C	2.37	0.45
1:H:223:GLN:HB2	1:H:229:GLN:O	2.16	0.45
1:H:179:ASP:OD1	1:H:251:ILE:HG21	2.17	0.45
1:H:341:HIS:HE1	1:H:343:SER:HB2	1.81	0.45
1:H:470:HIS:O	1:H:470:HIS:CG	2.69	0.45
1:H:161:GLN:HB3	1:I:158:ALA:HA	1.98	0.45
1:N:225:ASP:HB2	1:N:226:ARG:CB	2.36	0.45
1:O:257:ARG:N	1:Y:37:SER:HG	166.90	0.45
1:O:404:GLN:HE22	1:O:443:ASP:HB2	1.81	0.45
1:P:146:GLU:HA	1:P:147:ASN:HA	1.79	0.45
1:P:404:GLN:HE22	1:P:443:ASP:HB2	1.81	0.45
1:P:375:GLU:OE2	1:P:445:HIS:NE2	2.50	0.45
1:R:439:TYR:CZ	1:S:469:ALA:HB2	2.50	0.45
1:T:439:TYR:CZ	1:U:469:ALA:HB2	79.60	0.45
1:W:213:VAL:O	1:W:215:THR:HG23	2.16	0.45
1:W:334:SER:OG	1:W:435:THR:HG23	2.16	0.45
1:X:109:TRP:CZ3	1:X:485:LYS:HB2	2.48	0.45
1:K:439:TYR:CZ	1:0:469:ALA:HB2	2.50	0.45
1:1:431:SER:OG	1:1:433:HIS:CD2	2.68	0.45
1:2:134:ARG:O	1:2:276:LEU:N	2.32	0.45
1:2:337:GLU:HA	1:2:338:TRP:C	2.37	0.45
1:2:386:ASP:H	1:2:387:GLN:HA	1.79	0.45
1:4:375:GLU:OE2	1:4:445:HIS:NE2	2.49	0.45
1:5:245:THR:HA	1:5:246:PRO:HD2	1.50	0.45
1:B:100:SER:HB2	1:5:322:ALA:HB3	224.80	0.45
1:5:381:TRP:O	1:5:381:TRP:CG	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:175:GLN:HE21	1:5:485:LYS:HE2	1.81	0.45
1:7:375:GLU:OE2	1:7:445:HIS:NE2	2.49	0.45
1:A:179:ASP:OD1	1:A:251:ILE:HG21	2.17	0.45
1:B:101:TYR:O	1:B:101:TYR:CD2	2.70	0.45
1:B:179:ASP:OD1	1:B:251:ILE:HG21	2.17	0.45
1:C:175:GLN:HE21	1:C:485:LYS:HE2	1.81	0.45
1:D:390:MET:HA	1:D:391:ARG:HA	1.72	0.45
1:H:353:GLN:NE2	1:H:404:GLN:HB3	2.32	0.45
1:H:66:ILE:O	1:H:508:GLY:N	2.48	0.45
1:I:158:ALA:HA	1:I:161:GLN:HB3	143.01	0.45
1:J:175:GLN:HE21	1:J:485:LYS:HE2	1.81	0.45
1:J:213:VAL:O	1:J:215:THR:HG23	2.16	0.45
1:J:179:ASP:OD1	1:J:251:ILE:HG21	2.17	0.45
1:J:404:GLN:HE22	1:J:443:ASP:HB2	1.81	0.45
1:K:375:GLU:OE2	1:K:445:HIS:NE2	2.50	0.45
1:M:179:ASP:OD1	1:M:251:ILE:HG21	2.17	0.45
1:M:414:GLN:HA	1:M:426:HIS:O	2.17	0.45
1:N:284:ARG:HD2	1:P:346:GLY:CA	2.44	0.45
1:N:337:GLU:HA	1:N:338:TRP:C	2.37	0.45
1:O:337:GLU:HA	1:O:338:TRP:C	2.37	0.45
1:O:439:TYR:CE1	1:P:469:ALA:CB	78.44	0.45
1:Q:146:GLU:HA	1:Q:147:ASN:HA	1.78	0.45
1:T:390:MET:HA	1:T:391:ARG:HA	1.72	0.45
1:U:146:GLU:HA	1:U:147:ASN:HA	1.79	0.45
1:V:245:THR:HA	1:V:246:PRO:HD2	1.50	0.45
1:V:179:ASP:OD1	1:V:251:ILE:HG21	2.17	0.45
1:W:223:GLN:HB2	1:W:229:GLN:O	2.16	0.45
1:W:353:GLN:NE2	1:W:404:GLN:HB3	2.32	0.45
1:X:223:GLN:HB2	1:X:229:GLN:O	2.16	0.45
1:X:318:ASN:HA	1:X:319:PRO:HA	1.81	0.45
1:X:337:GLU:HA	1:X:338:TRP:C	2.37	0.45
1:0:101:TYR:CD2	1:0:101:TYR:O	2.70	0.45
1:0:353:GLN:NE2	1:0:404:GLN:HB3	2.32	0.45
1:1:175:GLN:HE21	1:1:485:LYS:HE2	1.81	0.45
1:2:381:TRP:CG	1:2:381:TRP:O	2.70	0.45
1:3:146:GLU:HA	1:3:147:ASN:HA	1.78	0.45
1:3:175:GLN:HE21	1:3:485:LYS:HE2	1.81	0.45
1:4:341:HIS:HE1	1:4:343:SER:HB2	1.81	0.45
1:5:179:ASP:OD1	1:5:251:ILE:HG21	2.17	0.45
1:K:158:ALA:HA	1:6:161:GLN:HB3	1.98	0.45
1:6:534:PRO:HD3	1:6:563:MET:HE1	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:223:GLN:HB2	1:7:229:GLN:O	2.16	0.45
1:7:179:ASP:OD1	1:7:251:ILE:HG21	2.17	0.45
1:A:257:ARG:N	1:B:37:SER:HG	2.10	0.45
1:E:375:GLU:OE2	1:E:445:HIS:NE2	2.50	0.45
1:F:404:GLN:HE22	1:F:443:ASP:HB2	1.81	0.45
1:E:469:ALA:CB	1:F:439:TYR:CE1	2.87	0.45
1:H:158:ALA:HA	1:L:161:GLN:HB3	137.21	0.45
1:H:37:SER:CA	1:I:257:ARG:HG2	2.32	0.45
1:I:469:ALA:HB2	1:2:439:TYR:CZ	168.00	0.45
1:J:381:TRP:CG	1:J:381:TRP:O	2.70	0.45
1:M:213:VAL:O	1:M:215:THR:HG23	2.16	0.45
1:N:215:THR:O	1:N:216:TRP:HD1	1.98	0.45
1:N:318:ASN:HA	1:N:319:PRO:HA	1.81	0.45
1:D:406:ASP:CG	1:N:341:HIS:HE2	2.16	0.45
1:N:439:TYR:CE1	1:O:469:ALA:CB	64.26	0.45
1:D:439:TYR:CZ	1:N:469:ALA:HB2	2.50	0.45
1:P:101:TYR:O	1:P:101:TYR:CD2	2.70	0.45
1:Q:101:TYR:O	1:Q:101:TYR:CD2	2.70	0.45
1:R:179:ASP:OD1	1:R:251:ILE:HG21	2.17	0.45
1:R:213:VAL:O	1:R:215:THR:HG23	2.16	0.45
1:Q:406:ASP:CG	1:R:341:HIS:HE2	71.70	0.45
1:R:381:TRP:CG	1:R:381:TRP:O	2.70	0.45
1:R:431:SER:OG	1:R:433:HIS:CD2	2.68	0.45
1:S:245:THR:HA	1:S:246:PRO:HD2	1.50	0.45
1:S:381:TRP:O	1:S:381:TRP:CG	2.70	0.45
1:S:431:SER:OG	1:S:433:HIS:CD2	2.68	0.45
1:T:158:ALA:HA	1:X:161:GLN:HB3	137.21	0.45
1:F:439:TYR:CZ	1:T:469:ALA:HB2	126.33	0.45
1:V:101:TYR:O	1:V:101:TYR:CD2	2.70	0.45
1:V:158:ALA:HA	1:W:161:GLN:HB3	1.99	0.45
1:X:353:GLN:NE2	1:X:404:GLN:HB3	2.32	0.45
1:Y:179:ASP:OD1	1:Y:251:ILE:HG21	2.17	0.45
1:Y:381:TRP:CG	1:Y:381:TRP:O	2.70	0.45
1:Y:414:GLN:HA	1:Y:426:HIS:O	2.17	0.45
1:Z:414:GLN:HA	1:Z:426:HIS:O	2.17	0.45
1:2:223:GLN:HB2	1:2:229:GLN:O	2.16	0.45
1:2:404:GLN:HE22	1:2:443:ASP:HB2	1.81	0.45
1:2:470:HIS:CG	1:2:470:HIS:O	2.69	0.45
1:4:213:VAL:O	1:4:215:THR:HG23	2.16	0.45
1:T:37:SER:CB	1:5:257:ARG:CG	101.43	0.45
1:B:377:ALA:HB2	1:5:311:TRP:CZ3	212.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:343:SER:OG	1:6:344:THR:N	2.48	0.45
1:A:414:GLN:HA	1:A:426:HIS:O	2.17	0.45
1:B:263:GLU:HA	1:B:264:SER:HA	1.76	0.45
1:C:179:ASP:OD1	1:C:251:ILE:HG21	2.17	0.45
1:D:101:TYR:O	1:D:101:TYR:CD2	2.70	0.45
1:D:381:TRP:CG	1:D:381:TRP:O	2.70	0.45
1:E:101:TYR:O	1:E:101:TYR:CD2	2.70	0.45
1:F:381:TRP:CG	1:F:381:TRP:O	2.70	0.45
1:G:101:TYR:CD2	1:G:101:TYR:O	2.70	0.45
1:H:89:GLN:NE2	1:H:229:GLN:HB2	2.29	0.45
1:I:101:TYR:O	1:I:101:TYR:CD2	2.70	0.45
1:I:337:GLU:HA	1:I:338:TRP:C	2.37	0.45
1:I:37:SER:CB	1:J:257:ARG:CG	2.73	0.45
1:K:390:MET:HA	1:K:391:ARG:HA	1.72	0.45
1:L:101:TYR:CD2	1:L:101:TYR:O	2.70	0.45
1:O:161:GLN:HB3	1:P:158:ALA:HA	1.98	0.45
1:P:381:TRP:CG	1:P:381:TRP:O	2.70	0.45
1:Q:102:HIS:HE1	1:Q:104:LYS:HE3	1.81	0.45
1:T:337:GLU:HA	1:T:338:TRP:C	2.37	0.45
1:U:213:VAL:O	1:U:215:THR:HG23	2.16	0.45
1:S:406:ASP:CG	1:U:341:HIS:HE2	2.16	0.45
1:W:101:TYR:O	1:W:101:TYR:CD2	2.70	0.45
1:W:263:GLU:HA	1:W:264:SER:HA	1.76	0.45
1:W:375:GLU:OE2	1:W:445:HIS:NE2	2.50	0.45
1:X:101:TYR:CD2	1:X:101:TYR:O	2.70	0.45
1:X:179:ASP:OD1	1:X:251:ILE:HG21	2.17	0.45
1:X:469:ALA:HB2	1:4:439:TYR:CZ	2.50	0.45
1:X:470:HIS:O	1:X:470:HIS:CG	2.69	0.45
1:Y:439:TYR:CZ	1:Z:469:ALA:HB2	65.96	0.45
1:0:414:GLN:HA	1:0:426:HIS:O	2.17	0.45
1:1:96:THR:HG21	1:1:221:ILE:CG1	2.43	0.45
1:2:129:LEU:HD12	1:2:133:CYS:SG	2.57	0.45
1:3:337:GLU:HA	1:3:338:TRP:C	2.37	0.45
1:3:404:GLN:HE22	1:3:443:ASP:HB2	1.81	0.45
1:U:161:GLN:HB3	1:4:158:ALA:HA	1.98	0.45
1:A:308:ILE:HG21	1:5:192:TYR:HD1	153.23	0.45
1:5:213:VAL:O	1:5:215:THR:HG23	2.16	0.45
1:X:75:ARG:HD2	1:5:549:ALA:O	2.17	0.45
1:7:245:THR:HA	1:7:246:PRO:HD2	1.50	0.45
1:7:414:GLN:HA	1:7:426:HIS:O	2.17	0.45
1:C:101:TYR:CD2	1:C:101:TYR:O	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:134:ARG:O	1:C:276:LEU:N	2.32	0.45
1:C:161:GLN:HB3	1:T:158:ALA:HA	220.24	0.45
1:F:129:LEU:HD12	1:F:133:CYS:SG	2.58	0.45
1:G:381:TRP:O	1:G:381:TRP:CG	2.70	0.45
1:I:179:ASP:OD1	1:I:251:ILE:HG21	2.17	0.45
1:J:101:TYR:O	1:J:101:TYR:CD2	2.70	0.45
1:K:161:GLN:HB3	1:S:158:ALA:HA	218.77	0.45
1:K:179:ASP:OD1	1:K:251:ILE:HG21	2.17	0.45
1:L:179:ASP:OD1	1:L:251:ILE:HG21	2.17	0.45
1:L:89:GLN:NE2	1:L:229:GLN:HB2	2.28	0.45
1:L:381:TRP:CG	1:L:381:TRP:O	2.70	0.45
1:L:491:THR:OG1	1:L:502:SER:O	2.30	0.45
1:M:101:TYR:CD2	1:M:101:TYR:O	2.70	0.45
1:M:161:GLN:HB3	1:2:158:ALA:HA	14.54	0.45
1:C:469:ALA:CB	1:M:439:TYR:CE1	2.87	0.45
1:N:101:TYR:O	1:N:101:TYR:CD2	2.70	0.45
1:N:353:GLN:NE2	1:N:404:GLN:HB3	2.32	0.45
1:O:414:GLN:HA	1:O:426:HIS:O	2.17	0.45
1:P:431:SER:OG	1:P:433:HIS:CD2	2.68	0.45
1:Q:381:TRP:O	1:Q:381:TRP:CG	2.70	0.45
1:R:101:TYR:CD2	1:R:101:TYR:O	2.70	0.45
1:Q:439:TYR:CZ	1:R:469:ALA:HB2	65.96	0.45
1:T:101:TYR:O	1:T:101:TYR:CD2	2.70	0.45
1:T:179:ASP:OD1	1:T:251:ILE:HG21	2.17	0.45
1:T:414:GLN:HA	1:T:426:HIS:O	2.17	0.45
1:U:175:GLN:HE21	1:U:485:LYS:HE2	1.81	0.45
1:U:414:GLN:HA	1:U:426:HIS:O	2.17	0.45
1:V:414:GLN:HA	1:V:426:HIS:O	2.17	0.45
1:W:381:TRP:O	1:W:381:TRP:CG	2.70	0.45
1:W:414:GLN:HA	1:W:426:HIS:O	2.17	0.45
1:X:89:GLN:NE2	1:X:229:GLN:HB2	2.28	0.45
1:X:414:GLN:HA	1:X:426:HIS:O	2.17	0.45
1:0:213:VAL:O	1:0:215:THR:HG23	2.16	0.44
1:1:179:ASP:OD1	1:1:251:ILE:HG21	2.17	0.44
1:C:406:ASP:CG	1:1:341:HIS:HE2	2.17	0.44
1:2:175:GLN:HE21	1:2:485:LYS:HE2	1.81	0.44
1:3:101:TYR:O	1:3:101:TYR:CD2	2.70	0.44
1:4:134:ARG:O	1:4:276:LEU:N	2.32	0.44
1:4:337:GLU:HA	1:4:338:TRP:C	2.37	0.44
1:6:156:THR:O	1:6:163:THR:OG1	2.25	0.44
1:6:334:SER:OG	1:6:435:THR:HG23	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:101:TYR:O	1:7:101:TYR:CD2	2.70	0.44
1:A:257:ARG:N	1:E:37:SER:HG	25.90	0.44
1:A:263:GLU:HA	1:A:264:SER:HA	1.76	0.44
1:B:414:GLN:HA	1:B:426:HIS:O	2.17	0.44
1:C:341:HIS:HE2	1:E:406:ASP:CG	116.75	0.44
1:C:381:TRP:CG	1:C:381:TRP:O	2.70	0.44
1:C:469:ALA:HB2	1:M:439:TYR:CZ	2.50	0.44
1:D:414:GLN:HA	1:D:426:HIS:O	2.17	0.44
1:E:341:HIS:HE2	1:F:406:ASP:CG	2.16	0.44
1:F:390:MET:HA	1:F:391:ARG:HA	1.72	0.44
1:G:129:LEU:HD12	1:G:133:CYS:SG	2.57	0.44
1:G:179:ASP:OD1	1:G:251:ILE:HG21	2.17	0.44
1:H:431:SER:OG	1:H:433:HIS:CD2	2.68	0.44
1:I:414:GLN:HA	1:I:426:HIS:O	2.17	0.44
1:J:414:GLN:HA	1:J:426:HIS:O	2.17	0.44
1:K:337:GLU:HA	1:K:338:TRP:C	2.37	0.44
1:L:223:GLN:HB2	1:L:229:GLN:O	2.16	0.44
1:N:284:ARG:HD2	1:O:346:GLY:CA	63.80	0.44
1:O:374:THR:OG1	1:O:396:GLN:O	2.34	0.44
1:T:129:LEU:HD12	1:T:133:CYS:SG	2.58	0.44
1:V:284:ARG:HD2	1:4:346:GLY:CA	2.44	0.44
1:V:381:TRP:CG	1:V:381:TRP:O	2.70	0.44
1:W:337:GLU:HA	1:W:338:TRP:C	2.37	0.44
1:X:298:GLU:HA	1:X:299:GLY:HA2	1.56	0.44
1:Y:101:TYR:CD2	1:Y:101:TYR:O	2.70	0.44
1:Y:439:TYR:CE1	1:Z:469:ALA:CB	64.26	0.44
1:Z:101:TYR:O	1:Z:101:TYR:CD2	2.70	0.44
1:Z:129:LEU:HD12	1:Z:133:CYS:SG	2.58	0.44
1:0:129:LEU:HD12	1:0:133:CYS:SG	2.58	0.44
1:0:223:GLN:HB2	1:0:229:GLN:O	2.16	0.44
1:Z:257:ARG:N	1:0:37:SER:HG	2.10	0.44
1:0:470:HIS:CG	1:0:470:HIS:O	2.69	0.44
1:3:414:GLN:HA	1:3:426:HIS:O	2.17	0.44
1:5:470:HIS:CG	1:5:470:HIS:O	2.69	0.44
1:6:100:SER:O	1:6:100:SER:OG	2.23	0.44
1:6:213:VAL:O	1:6:215:THR:HG23	2.16	0.44
1:Z:406:ASP:CG	1:6:341:HIS:HE2	150.43	0.44
1:K:346:GLY:CA	1:7:284:ARG:HD2	2.44	0.44
1:A:381:TRP:O	1:A:381:TRP:CG	2.70	0.44
1:C:129:LEU:HD12	1:C:133:CYS:SG	2.58	0.44
1:D:146:GLU:HA	1:D:147:ASN:HA	1.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:308:ILE:HG21	1:Q:192:TYR:HD1	1.83	0.44
1:F:414:GLN:HA	1:F:426:HIS:O	2.17	0.44
1:I:129:LEU:HD12	1:I:133:CYS:SG	2.58	0.44
1:J:183:LEU:HB3	1:J:250:MET:SD	2.58	0.44
1:K:414:GLN:HA	1:K:426:HIS:O	2.17	0.44
1:L:129:LEU:HD12	1:L:133:CYS:SG	2.58	0.44
1:L:439:TYR:CZ	1:M:469:ALA:HB2	88.58	0.44
1:N:381:TRP:CG	1:N:381:TRP:O	2.70	0.44
1:P:470:HIS:O	1:P:470:HIS:CG	2.69	0.44
1:Q:353:GLN:NE2	1:Q:404:GLN:HB3	2.32	0.44
1:R:183:LEU:HB3	1:R:250:MET:SD	2.58	0.44
1:R:245:THR:HA	1:R:246:PRO:HD2	1.50	0.44
1:S:101:TYR:CD2	1:S:101:TYR:O	2.70	0.44
1:S:414:GLN:HA	1:S:426:HIS:O	2.17	0.44
1:T:381:TRP:CG	1:T:381:TRP:O	2.70	0.44
1:U:381:TRP:O	1:U:381:TRP:CG	2.70	0.44
1:V:129:LEU:HD12	1:V:133:CYS:SG	2.57	0.44
1:W:129:LEU:HD12	1:W:133:CYS:SG	2.58	0.44
1:X:129:LEU:HD12	1:X:133:CYS:SG	2.58	0.44
1:Y:129:LEU:HD12	1:Y:133:CYS:SG	2.58	0.44
1:0:179:ASP:OD1	1:0:251:ILE:HG21	2.17	0.44
1:2:179:ASP:OD1	1:2:251:ILE:HG21	2.17	0.44
1:5:183:LEU:HB3	1:5:250:MET:SD	2.58	0.44
1:6:175:GLN:HE21	1:6:485:LYS:HE2	1.81	0.44
1:C:183:LEU:HB3	1:C:250:MET:SD	2.58	0.44
1:B:257:ARG:N	1:C:37:SER:HG	2.10	0.44
1:D:129:LEU:HD12	1:D:133:CYS:SG	2.58	0.44
1:D:374:THR:OG1	1:D:396:GLN:O	2.34	0.44
1:E:179:ASP:OD1	1:E:251:ILE:HG21	2.17	0.44
1:E:183:LEU:HB3	1:E:250:MET:SD	2.58	0.44
1:C:349:ILE:CD1	1:E:324:THR:HG22	130.50	0.44
1:E:381:TRP:O	1:E:381:TRP:CG	2.70	0.44
1:E:390:MET:HA	1:E:391:ARG:HA	1.72	0.44
1:E:414:GLN:HA	1:E:426:HIS:O	2.17	0.44
1:E:349:ILE:CD1	1:F:324:THR:HG22	2.48	0.44
1:H:129:LEU:HD12	1:H:133:CYS:SG	2.58	0.44
1:H:183:LEU:HB3	1:H:250:MET:SD	2.58	0.44
1:H:357:GLN:CB	1:H:362:SER:HB3	2.48	0.44
1:G:439:TYR:CZ	1:H:469:ALA:HB2	65.96	0.44
1:I:245:THR:HA	1:I:246:PRO:HD2	1.50	0.44
1:I:381:TRP:O	1:I:381:TRP:CG	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:129:LEU:HD12	1:M:133:CYS:SG	2.58	0.44
1:N:183:LEU:HB3	1:N:250:MET:SD	2.58	0.44
1:N:59:HIS:HE1	1:N:515:LYS:HZ1	1.70	0.44
1:O:390:MET:HA	1:O:391:ARG:HA	1.72	0.44
1:P:139:SER:O	1:P:269:PHE:N	2.45	0.44
1:P:414:GLN:HA	1:P:426:HIS:O	2.17	0.44
1:Q:183:LEU:HB3	1:Q:250:MET:SD	2.58	0.44
1:F:346:GLY:CA	1:Q:284:ARG:HD2	2.44	0.44
1:Q:414:GLN:HA	1:Q:426:HIS:O	2.17	0.44
1:Q:404:GLN:HE22	1:Q:443:ASP:HB2	1.81	0.44
1:Q:59:HIS:HE1	1:Q:515:LYS:HZ1	1.64	0.44
1:T:374:THR:OG1	1:T:396:GLN:O	2.34	0.44
1:W:183:LEU:HB3	1:W:250:MET:SD	2.58	0.44
1:W:334:SER:N	1:W:435:THR:OG1	2.51	0.44
1:W:346:GLY:CA	1:X:284:ARG:HD2	63.81	0.44
1:W:192:TYR:HD1	1:X:308:ILE:HG21	50.17	0.44
1:X:431:SER:OG	1:X:433:HIS:CD2	2.68	0.44
1:Y:183:LEU:HB3	1:Y:250:MET:SD	2.58	0.44
1:O:257:ARG:CG	1:Y:37:SER:HG	164.80	0.44
1:1:213:VAL:O	1:1:215:THR:HG23	2.16	0.44
1:3:129:LEU:HD12	1:3:133:CYS:SG	2.58	0.44
1:3:183:LEU:HB3	1:3:250:MET:SD	2.58	0.44
1:3:223:GLN:HB2	1:3:229:GLN:O	2.16	0.44
1:S:37:SER:CB	1:3:257:ARG:CG	2.73	0.44
1:4:129:LEU:HD12	1:4:133:CYS:SG	2.58	0.44
1:4:146:GLU:HA	1:4:147:ASN:HA	1.79	0.44
1:4:183:LEU:HB3	1:4:250:MET:SD	2.58	0.44
1:5:156:THR:O	1:5:163:THR:OG1	2.25	0.44
1:6:183:LEU:HB3	1:6:250:MET:SD	2.58	0.44
1:7:353:GLN:NE2	1:7:404:GLN:HB3	2.32	0.44
1:A:129:LEU:HD12	1:A:133:CYS:SG	2.58	0.44
1:A:158:ALA:HA	1:E:161:GLN:HB3	14.50	0.44
1:A:192:TYR:CD1	1:B:310:CYS:HB3	77.42	0.44
1:A:523:ARG:O	1:A:523:ARG:HG3	2.18	0.44
1:B:334:SER:N	1:B:435:THR:OG1	2.51	0.44
1:C:324:THR:HG22	1:1:349:ILE:CD1	2.48	0.44
1:D:109:TRP:HZ3	1:D:485:LYS:CB	2.27	0.44
1:E:129:LEU:HD12	1:E:133:CYS:SG	2.58	0.44
1:E:175:GLN:HE21	1:E:485:LYS:HE2	1.81	0.44
1:D:439:TYR:CZ	1:E:469:ALA:HB2	76.86	0.44
1:G:183:LEU:HB3	1:G:250:MET:SD	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:324:THR:HG22	1:G:349:ILE:CD1	2.47	0.44
1:G:414:GLN:HA	1:G:426:HIS:O	2.17	0.44
1:G:324:THR:HG22	1:H:349:ILE:CD1	65.72	0.44
1:J:129:LEU:HD12	1:J:133:CYS:SG	2.58	0.44
1:K:102:HIS:HE1	1:K:104:LYS:HE3	1.81	0.44
1:K:129:LEU:HD12	1:K:133:CYS:SG	2.58	0.44
1:K:374:THR:OG1	1:K:396:GLN:O	2.34	0.44
1:L:334:SER:N	1:L:435:THR:OG1	2.51	0.44
1:L:414:GLN:HA	1:L:426:HIS:O	2.17	0.44
1:M:183:LEU:HB3	1:M:250:MET:SD	2.58	0.44
1:L:324:THR:HG22	1:M:349:ILE:CD1	95.45	0.44
1:M:357:GLN:CB	1:M:362:SER:HB3	2.48	0.44
1:N:139:SER:O	1:N:269:PHE:N	2.45	0.44
1:N:179:ASP:OD1	1:N:251:ILE:HG21	2.17	0.44
1:P:179:ASP:OD1	1:P:251:ILE:HG21	2.17	0.44
1:P:257:ARG:HG2	1:U:37:SER:CA	104.98	0.44
1:N:192:TYR:HD1	1:P:308:ILE:HG21	54.14	0.44
1:O:406:ASP:CG	1:P:341:HIS:HE2	60.83	0.44
1:P:334:SER:N	1:P:435:THR:OG1	2.51	0.44
1:Q:109:TRP:HZ3	1:Q:485:LYS:CB	2.28	0.44
1:R:139:SER:O	1:R:269:PHE:N	2.45	0.44
1:T:431:SER:OG	1:T:433:HIS:CD2	2.68	0.44
1:U:183:LEU:HB3	1:U:250:MET:SD	2.58	0.44
1:V:341:HIS:HE2	1:X:406:ASP:CG	2.17	0.44
1:V:37:SER:HG	1:W:257:ARG:N	25.98	0.44
1:X:183:LEU:HB3	1:X:250:MET:SD	2.58	0.44
1:Z:179:ASP:OD1	1:Z:251:ILE:HG21	2.17	0.44
1:O:183:LEU:HB3	1:O:250:MET:SD	2.58	0.44
1:O:337:GLU:HA	1:O:338:TRP:C	2.37	0.44
1:1:101:TYR:O	1:1:101:TYR:CD2	2.70	0.44
1:2:414:GLN:HA	1:2:426:HIS:O	2.17	0.44
1:S:549:ALA:O	1:3:75:ARG:HD2	2.18	0.44
1:O:406:ASP:CG	1:7:341:HIS:HE2	2.16	0.44
1:7:431:SER:OG	1:7:433:HIS:CD2	2.68	0.44
1:A:101:TYR:CD2	1:A:101:TYR:O	2.70	0.44
1:A:349:ILE:CD1	1:I:324:THR:HG22	2.48	0.44
1:A:37:SER:HG	1:U:257:ARG:N	143.82	0.44
1:H:308:ILE:HG21	1:W:192:TYR:HD1	1.83	0.44
1:H:414:GLN:HA	1:H:426:HIS:O	2.17	0.44
1:J:257:ARG:CG	1:Z:37:SER:CB	24.82	0.44
1:I:37:SER:HG	1:J:257:ARG:N	2.09	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:523:ARG:HG3	1:J:523:ARG:O	2.18	0.44
1:J:75:ARG:HD2	1:Z:549:ALA:O	69.85	0.44
1:K:101:TYR:CD2	1:K:101:TYR:O	2.70	0.44
1:K:183:LEU:HB3	1:K:250:MET:SD	2.58	0.44
1:N:263:GLU:HA	1:N:264:SER:HA	1.76	0.44
1:N:308:ILE:HG21	1:O:192:TYR:HD1	50.16	0.44
1:O:101:TYR:CD2	1:O:101:TYR:O	2.70	0.44
1:P:245:THR:HA	1:P:246:PRO:HD2	1.50	0.44
1:O:324:THR:HG22	1:P:349:ILE:CD1	77.75	0.44
1:P:66:ILE:O	1:P:508:GLY:N	2.48	0.44
1:R:129:LEU:HD12	1:R:133:CYS:SG	2.58	0.44
1:R:192:TYR:HD1	1:U:308:ILE:HG21	1.83	0.44
1:S:139:SER:O	1:S:269:PHE:N	2.45	0.44
1:S:179:ASP:OD1	1:S:251:ILE:HG21	2.17	0.44
1:Q:349:ILE:CD1	1:S:324:THR:HG22	95.88	0.44
1:S:324:THR:HG22	1:U:349:ILE:CD1	2.48	0.44
1:T:139:SER:O	1:T:269:PHE:N	2.45	0.44
1:V:183:LEU:HB3	1:V:250:MET:SD	2.58	0.44
1:V:349:ILE:CD1	1:X:324:THR:HG22	2.48	0.44
1:W:308:ILE:HG21	1:Z:192:TYR:HD1	68.55	0.44
1:W:523:ARG:HG3	1:W:523:ARG:O	2.18	0.44
1:W:59:HIS:HE1	1:W:515:LYS:HZ1	1.65	0.44
1:Z:324:THR:HG22	1:6:349:ILE:CD1	153.18	0.44
1:Y:324:THR:HG22	1:Z:349:ILE:CD1	65.72	0.44
1:Z:334:SER:N	1:Z:435:THR:OG1	2.51	0.44
1:O:381:TRP:O	1:O:381:TRP:CG	2.70	0.44
1:M:349:ILE:CD1	1:1:324:THR:HG22	2.48	0.44
1:1:381:TRP:O	1:1:381:TRP:CG	2.70	0.44
1:F:192:TYR:HD1	1:3:308:ILE:HG21	161.96	0.44
1:3:523:ARG:HG3	1:3:523:ARG:O	2.18	0.44
1:4:102:HIS:HE1	1:4:104:LYS:HE3	1.81	0.44
1:V:308:ILE:HG21	1:4:192:TYR:HD1	1.83	0.44
1:B:377:ALA:HB2	1:5:311:TRP:CE3	212.69	0.44
1:Y:192:TYR:HD1	1:6:308:ILE:HG21	163.63	0.44
1:7:183:LEU:HB3	1:7:250:MET:SD	2.58	0.44
1:O:324:THR:HG22	1:7:349:ILE:CD1	2.48	0.44
1:B:129:LEU:HD12	1:B:133:CYS:SG	2.58	0.44
1:A:346:GLY:CA	1:B:284:ARG:HD2	59.82	0.44
1:B:460:ASP:OD1	1:B:460:ASP:N	2.50	0.44
1:B:523:ARG:HG3	1:B:523:ARG:O	2.18	0.44
1:C:324:THR:HG22	1:D:349:ILE:CD1	95.88	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:183:LEU:HB3	1:D:250:MET:SD	2.58	0.44
1:D:349:ILE:CD1	1:P:324:THR:HG22	2.48	0.44
1:D:439:TYR:CE1	1:E:469:ALA:CB	76.69	0.44
1:C:192:TYR:HD1	1:E:308:ILE:HG21	120.85	0.44
1:E:523:ARG:HG3	1:E:523:ARG:O	2.18	0.44
1:E:66:ILE:O	1:E:508:GLY:N	2.48	0.44
1:H:284:ARG:HD2	1:W:346:GLY:CA	2.44	0.44
1:H:341:HIS:HE2	1:Y:406:ASP:CG	2.17	0.44
1:H:349:ILE:CD1	1:Y:324:THR:HG22	2.48	0.44
1:H:381:TRP:CG	1:H:381:TRP:O	2.70	0.44
1:I:183:LEU:HB3	1:I:250:MET:SD	2.58	0.44
1:I:374:THR:OG1	1:I:396:GLN:O	2.34	0.44
1:I:431:SER:OG	1:I:433:HIS:CD2	2.68	0.44
1:J:308:ILE:HG21	1:2:192:TYR:HD1	113.02	0.44
1:K:134:ARG:O	1:K:276:LEU:N	2.32	0.44
1:K:146:GLU:HA	1:K:147:ASN:HA	1.78	0.44
1:K:469:ALA:HB2	1:7:439:TYR:CZ	2.50	0.44
1:L:183:LEU:HB3	1:L:250:MET:SD	2.58	0.44
1:L:263:GLU:HA	1:L:264:SER:HA	1.76	0.44
1:L:460:ASP:N	1:L:460:ASP:OD1	2.50	0.44
1:L:109:TRP:CZ3	1:L:485:LYS:HB2	2.48	0.44
1:M:381:TRP:O	1:M:381:TRP:CG	2.70	0.44
1:M:390:MET:HA	1:M:391:ARG:HA	1.72	0.44
1:M:161:GLN:HB3	1:N:158:ALA:HA	1.98	0.44
1:N:89:GLN:NE2	1:N:229:GLN:HB2	2.28	0.44
1:N:414:GLN:HA	1:N:426:HIS:O	2.17	0.44
1:P:109:TRP:HZ3	1:P:485:LYS:CB	2.27	0.44
1:Q:263:GLU:HA	1:Q:264:SER:HA	1.76	0.44
1:Q:374:THR:OG1	1:Q:396:GLN:O	2.34	0.44
1:R:353:GLN:NE2	1:R:404:GLN:HB3	2.32	0.44
1:R:414:GLN:HA	1:R:426:HIS:O	2.17	0.44
1:R:523:ARG:O	1:R:523:ARG:HG3	2.18	0.44
1:S:183:LEU:HB3	1:S:250:MET:SD	2.58	0.44
1:S:334:SER:N	1:S:435:THR:OG1	2.51	0.44
1:S:109:TRP:HZ3	1:S:485:LYS:CB	2.27	0.44
1:T:415:SER:C	1:U:371:GLN:HE22	97.74	0.44
1:U:101:TYR:O	1:U:101:TYR:CD2	2.70	0.44
1:V:298:GLU:HA	1:V:299:GLY:HA2	1.56	0.44
1:W:308:ILE:HG21	1:Y:192:TYR:HD1	1.83	0.44
1:X:349:ILE:CD1	1:Z:324:THR:HG22	106.10	0.44
1:X:390:MET:HA	1:X:391:ARG:HA	1.72	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:334:SER:N	1:Y:435:THR:OG1	2.51	0.44
1:O:191:PHE:CD1	1:O:191:PHE:N	2.81	0.44
1:1:334:SER:N	1:1:435:THR:OG1	2.51	0.44
1:L:549:ALA:O	1:1:75:ARG:HD2	2.18	0.44
1:I:371:GLN:HE22	1:2:415:SER:C	192.42	0.44
1:3:334:SER:N	1:3:435:THR:OG1	2.51	0.44
1:V:439:TYR:CZ	1:4:469:ALA:HB2	2.50	0.44
1:6:414:GLN:HA	1:6:426:HIS:O	2.17	0.44
1:K:192:TYR:HD1	1:7:308:ILE:HG21	1.83	0.44
1:A:75:ARG:HD2	1:E:549:ALA:O	69.44	0.44
1:B:381:TRP:O	1:B:381:TRP:CG	2.70	0.44
1:C:308:ILE:HG21	1:1:192:TYR:HD1	1.83	0.44
1:C:390:MET:HA	1:C:391:ARG:HA	1.72	0.44
1:D:415:SER:C	1:E:371:GLN:HE22	88.11	0.44
1:A:37:SER:HG	1:E:257:ARG:N	2.12	0.44
1:E:334:SER:N	1:E:435:THR:OG1	2.51	0.44
1:F:101:TYR:CD2	1:F:101:TYR:O	2.70	0.44
1:G:109:TRP:CZ3	1:G:485:LYS:HB2	2.48	0.44
1:A:415:SER:C	1:G:371:GLN:HE22	2.21	0.44
1:J:334:SER:N	1:J:435:THR:OG1	2.51	0.44
1:K:334:SER:N	1:K:435:THR:OG1	2.51	0.44
1:K:192:TYR:HD1	1:M:308:ILE:HG21	113.39	0.44
1:N:374:THR:OG1	1:N:396:GLN:O	2.34	0.44
1:N:523:ARG:HG3	1:N:523:ARG:O	2.18	0.44
1:O:129:LEU:HD12	1:O:133:CYS:SG	2.58	0.44
1:P:183:LEU:HB3	1:P:250:MET:SD	2.58	0.44
1:P:89:GLN:NE2	1:P:229:GLN:HB2	2.28	0.44
1:P:523:ARG:O	1:P:523:ARG:HG3	2.18	0.44
1:F:192:TYR:HD1	1:Q:308:ILE:HG21	1.83	0.44
1:D:161:GLN:HB3	1:R:158:ALA:HA	143.01	0.44
1:R:324:THR:HG22	1:S:349:ILE:CD1	2.48	0.44
1:R:390:MET:HA	1:R:391:ARG:HA	1.72	0.44
1:Q:346:GLY:CA	1:S:284:ARG:HD2	100.70	0.44
1:T:183:LEU:HB3	1:T:250:MET:SD	2.58	0.44
1:T:559:PRO:HA	1:T:560:GLY:HA3	1.80	0.44
1:T:324:THR:HG22	1:U:349:ILE:CD1	77.76	0.44
1:A:549:ALA:O	1:U:75:ARG:HD2	156.50	0.44
1:U:308:ILE:HG21	1:V:192:TYR:HD1	50.16	0.44
1:W:324:THR:HG22	1:Z:349:ILE:CD1	70.31	0.44
1:H:406:ASP:CG	1:W:341:HIS:HE2	2.16	0.44
1:W:349:ILE:CD1	1:X:324:THR:HG22	65.72	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:341:HIS:HE2	1:Z:406:ASP:CG	117.20	0.44
1:X:349:ILE:CD1	1:4:324:THR:HG22	2.48	0.44
1:X:37:SER:HG	1:Y:257:ARG:N	2.11	0.44
1:X:381:TRP:O	1:X:381:TRP:CG	2.70	0.44
1:Y:139:SER:O	1:Y:269:PHE:N	2.45	0.44
1:W:406:ASP:CG	1:Y:341:HIS:HE2	2.16	0.44
1:4:381:TRP:O	1:4:381:TRP:CG	2.70	0.44
1:5:404:GLN:HE22	1:5:443:ASP:HB2	1.81	0.44
1:I:37:SER:HG	1:6:257:ARG:N	101.08	0.44
1:Z:415:SER:C	1:6:371:GLN:HE22	143.82	0.44
1:7:470:HIS:CG	1:7:470:HIS:O	2.69	0.44
1:A:334:SER:N	1:A:435:THR:OG1	2.51	0.44
1:A:257:ARG:CG	1:B:37:SER:HG	2.01	0.44
1:C:334:SER:N	1:C:435:THR:OG1	2.51	0.44
1:D:549:ALA:O	1:R:75:ARG:HD2	166.23	0.44
1:E:374:THR:OG1	1:E:396:GLN:O	2.34	0.44
1:D:75:ARG:HD2	1:E:549:ALA:O	2.18	0.44
1:F:415:SER:C	1:T:371:GLN:HE22	143.82	0.44
1:G:139:SER:O	1:G:269:PHE:N	2.45	0.44
1:G:192:TYR:HD1	1:O:308:ILE:HG21	188.81	0.44
1:G:89:GLN:NE2	1:G:229:GLN:HB2	2.28	0.44
1:G:349:ILE:CD1	1:O:324:THR:HG22	195.72	0.44
1:H:308:ILE:HG21	1:O:192:TYR:HD1	183.48	0.44
1:G:324:THR:HG22	1:I:349:ILE:CD1	2.48	0.44
1:G:415:SER:C	1:I:371:GLN:HE22	2.21	0.44
1:A:371:GLN:HE22	1:I:415:SER:C	2.22	0.44
1:B:308:ILE:HG21	1:J:192:TYR:HD1	1.83	0.44
1:I:324:THR:HG22	1:J:349:ILE:CD1	77.76	0.44
1:K:324:THR:HG22	1:L:349:ILE:CD1	77.75	0.44
1:M:549:ALA:O	1:N:75:ARG:HD2	2.18	0.44
1:N:129:LEU:HD12	1:N:133:CYS:SG	2.58	0.44
1:N:38:THR:HG22	1:N:147:ASN:HB3	2.00	0.44
1:N:415:SER:C	1:O:371:GLN:HE22	75.08	0.44
1:N:431:SER:OG	1:N:433:HIS:CD2	2.68	0.44
1:O:381:TRP:O	1:O:381:TRP:CG	2.70	0.44
1:O:334:SER:N	1:O:435:THR:OG1	2.51	0.44
1:O:523:ARG:HG3	1:O:523:ARG:O	2.18	0.44
1:P:549:ALA:O	1:Q:75:ARG:HD2	2.18	0.44
1:Q:129:LEU:HD12	1:Q:133:CYS:SG	2.58	0.44
1:Q:357:GLN:CB	1:Q:362:SER:HB3	2.47	0.44
1:Q:390:MET:HA	1:Q:391:ARG:HA	1.72	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:431:SER:OG	1:Q:433:HIS:CD2	2.68	0.44
1:Q:334:SER:N	1:Q:435:THR:OG1	2.51	0.44
1:R:38:THR:HG22	1:R:147:ASN:HB3	2.00	0.44
1:D:37:SER:CA	1:R:257:ARG:HG2	112.35	0.44
1:S:146:GLU:HA	1:S:147:ASN:HA	1.79	0.44
1:T:371:GLN:HE22	1:V:415:SER:C	123.66	0.44
1:U:129:LEU:HD12	1:U:133:CYS:SG	2.58	0.44
1:S:415:SER:C	1:U:371:GLN:HE22	2.21	0.44
1:U:415:SER:C	1:V:371:GLN:HE22	75.08	0.44
1:H:324:THR:HG22	1:W:349:ILE:CD1	2.48	0.44
1:X:523:ARG:HG3	1:X:523:ARG:O	2.18	0.44
1:W:324:THR:HG22	1:Y:349:ILE:CD1	2.48	0.44
1:Z:183:LEU:HB3	1:Z:250:MET:SD	2.58	0.44
1:W:406:ASP:CG	1:Z:341:HIS:HE2	88.29	0.44
1:O:245:THR:HA	1:O:246:PRO:HD2	1.50	0.44
1:1:183:LEU:HB3	1:1:250:MET:SD	2.58	0.44
1:2:334:SER:N	1:2:435:THR:OG1	2.51	0.44
1:3:374:THR:OG1	1:3:396:GLN:O	2.34	0.44
1:4:101:TYR:CD2	1:4:101:TYR:O	2.70	0.44
1:4:179:ASP:OD1	1:4:251:ILE:HG21	2.17	0.44
1:5:101:TYR:CD2	1:5:101:TYR:O	2.70	0.44
1:5:523:ARG:HG3	1:5:523:ARG:O	2.18	0.44
1:7:298:GLU:HA	1:7:299:GLY:HA2	1.56	0.44
1:7:381:TRP:CG	1:7:381:TRP:O	2.70	0.44
1:A:38:THR:HG22	1:A:147:ASN:HB3	2.00	0.44
1:B:38:THR:HG22	1:B:147:ASN:HB3	2.00	0.44
1:B:324:THR:HG22	1:J:349:ILE:CD1	2.48	0.44
1:A:191:PHE:CE2	1:B:327:SER:HA	69.79	0.44
1:B:349:ILE:CD1	1:L:324:THR:HG22	2.48	0.44
1:C:371:GLN:HE22	1:M:415:SER:C	2.22	0.44
1:D:357:GLN:CB	1:D:362:SER:HB3	2.48	0.44
1:D:38:THR:HG22	1:D:147:ASN:HB3	2.00	0.44
1:D:65:HIS:CD2	1:D:205:LYS:HE2	2.53	0.44
1:E:263:GLU:HA	1:E:264:SER:HA	1.76	0.44
1:D:324:THR:HG22	1:E:349:ILE:CD1	95.88	0.44
1:F:38:THR:HG22	1:F:147:ASN:HB3	2.00	0.44
1:F:349:ILE:CD1	1:Q:324:THR:HG22	2.48	0.44
1:F:371:GLN:HE22	1:Q:415:SER:C	2.21	0.44
1:G:334:SER:N	1:G:435:THR:OG1	2.51	0.44
1:A:311:TRP:CZ3	1:G:377:ALA:HB2	2.53	0.44
1:G:65:HIS:CD2	1:G:205:LYS:HE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:101:TYR:O	1:H:101:TYR:CD2	2.70	0.44
1:H:334:SER:N	1:H:435:THR:OG1	2.51	0.44
1:I:284:ARG:HD2	1:J:346:GLY:CA	59.81	0.44
1:A:377:ALA:HB2	1:I:311:TRP:CZ3	2.53	0.44
1:I:523:ARG:HG3	1:I:523:ARG:O	2.18	0.44
1:I:549:ALA:O	1:6:75:ARG:HD2	136.93	0.44
1:K:381:TRP:O	1:K:381:TRP:CG	2.70	0.44
1:J:324:THR:HG22	1:L:349:ILE:CD1	2.48	0.44
1:L:523:ARG:HG3	1:L:523:ARG:O	2.18	0.44
1:M:38:THR:HG22	1:M:147:ASN:HB3	2.00	0.44
1:C:349:ILE:CD1	1:M:324:THR:HG22	2.48	0.44
1:M:334:SER:N	1:M:435:THR:OG1	2.51	0.44
1:M:374:THR:OG1	1:M:396:GLN:O	2.34	0.44
1:M:561:ARG:HA	1:M:561:ARG:HD3	1.88	0.44
1:N:324:THR:HG22	1:P:349:ILE:CD1	2.48	0.44
1:N:390:MET:HA	1:N:391:ARG:HA	1.72	0.44
1:N:324:THR:HG22	1:O:349:ILE:CD1	65.72	0.44
1:D:346:GLY:CA	1:P:284:ARG:HD2	2.44	0.44
1:R:89:GLN:NE2	1:R:229:GLN:HB2	2.28	0.44
1:R:308:ILE:HG21	1:S:192:TYR:HD1	1.83	0.44
1:T:324:THR:HG22	1:3:349:ILE:CD1	2.48	0.44
1:T:37:SER:HG	1:U:257:ARG:N	2.11	0.44
1:U:263:GLU:HA	1:U:264:SER:HA	1.76	0.44
1:U:65:HIS:CD2	1:U:205:LYS:HE2	2.53	0.44
1:V:257:ARG:N	1:W:37:SER:HG	2.12	0.44
1:T:349:ILE:CD1	1:V:324:THR:HG22	106.10	0.44
1:U:324:THR:HG22	1:V:349:ILE:CD1	65.72	0.44
1:W:371:GLN:HE22	1:X:415:SER:C	75.09	0.44
1:Y:308:ILE:HG21	1:Z:192:TYR:HD1	50.16	0.44
1:0:379:TYR:CD2	1:0:392:GLU:HG3	2.44	0.43
1:0:431:SER:OG	1:0:433:HIS:CD2	2.68	0.43
1:0:523:ARG:O	1:0:523:ARG:HG3	2.18	0.43
1:0:65:HIS:CD2	1:0:205:LYS:HE2	2.53	0.43
1:0:66:ILE:O	1:0:508:GLY:N	2.48	0.43
1:1:333:TYR:CE2	1:1:335:TRP:CE3	3.06	0.43
1:C:415:SER:C	1:1:371:GLN:HE22	2.22	0.43
1:2:245:THR:HA	1:2:246:PRO:HD2	1.50	0.43
1:2:390:MET:HA	1:2:391:ARG:HA	1.72	0.43
1:T:439:TYR:CZ	1:3:469:ALA:HB2	2.50	0.43
1:X:192:TYR:HD1	1:4:308:ILE:HG21	1.83	0.43
1:6:101:TYR:O	1:6:101:TYR:CD2	2.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:65:HIS:CD2	1:6:205:LYS:HE2	2.53	0.43
1:6:381:TRP:CG	1:6:381:TRP:O	2.70	0.43
1:D:308:ILE:HG21	1:E:192:TYR:HD1	97.92	0.43
1:D:334:SER:N	1:D:435:THR:OG1	2.51	0.43
1:F:183:LEU:HB3	1:F:250:MET:SD	2.58	0.43
1:F:523:ARG:HG3	1:F:523:ARG:O	2.18	0.43
1:G:284:ARG:HD2	1:I:346:GLY:CA	2.44	0.43
1:H:374:THR:OG1	1:H:396:GLN:O	2.34	0.43
1:J:415:SER:C	1:L:371:GLN:HE22	2.22	0.43
1:K:324:THR:HG22	1:O:349:ILE:CD1	2.48	0.43
1:L:38:THR:HG22	1:L:147:ASN:HB3	2.00	0.43
1:M:65:HIS:CD2	1:M:205:LYS:HE2	2.53	0.43
1:G:549:ALA:O	1:M:75:ARG:HD2	200.50	0.43
1:D:311:TRP:CZ3	1:N:377:ALA:HB2	2.53	0.43
1:O:38:THR:HG22	1:O:147:ASN:HB3	2.00	0.43
1:E:75:ARG:HD2	1:Q:549:ALA:O	97.93	0.43
1:Q:65:HIS:CD2	1:Q:205:LYS:HE2	2.53	0.43
1:Q:324:THR:HG22	1:R:349:ILE:CD1	65.72	0.43
1:Q:311:TRP:CZ3	1:R:377:ALA:HB2	56.30	0.43
1:S:65:HIS:CD2	1:S:205:LYS:HE2	2.53	0.43
1:T:65:HIS:CD2	1:T:205:LYS:HE2	2.53	0.43
1:U:38:THR:HG22	1:U:147:ASN:HB3	2.00	0.43
1:S:308:ILE:HG21	1:U:192:TYR:HD1	1.83	0.43
1:T:549:ALA:O	1:U:75:ARG:HD2	2.18	0.43
1:V:139:SER:O	1:V:269:PHE:N	2.45	0.43
1:W:341:HIS:HE2	1:X:406:ASP:CG	71.70	0.43
1:H:415:SER:C	1:W:371:GLN:HE22	2.22	0.43
1:X:65:HIS:CD2	1:X:205:LYS:HE2	2.53	0.43
1:X:75:ARG:HD2	1:Y:549:ALA:O	69.45	0.43
1:Z:308:ILE:HG21	1:6:192:TYR:HD1	157.40	0.43
1:Z:381:TRP:O	1:Z:381:TRP:CG	2.70	0.43
1:K:311:TRP:CZ3	1:O:377:ALA:HB2	2.53	0.43
1:3:179:ASP:OD1	1:3:251:ILE:HG21	2.17	0.43
1:T:308:ILE:HG21	1:3:192:TYR:HD1	1.83	0.43
1:3:298:GLU:HA	1:3:299:GLY:HA2	1.56	0.43
1:4:334:SER:N	1:4:435:THR:OG1	2.51	0.43
1:5:129:LEU:HD12	1:5:133:CYS:SG	2.58	0.43
1:6:341:HIS:HE1	1:6:343:SER:HB2	1.81	0.43
1:Y:469:ALA:CB	1:6:439:TYR:CE1	166.37	0.43
1:7:333:TYR:CE2	1:7:335:TRP:CE3	3.06	0.43
1:0:311:TRP:CZ3	1:7:377:ALA:HB2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:65:HIS:CD2	1:A:205:LYS:HE2	2.53	0.43
1:A:342:TYR:H	1:B:411:ASN:HD22	65.94	0.43
1:B:65:HIS:CD2	1:B:205:LYS:HE2	2.53	0.43
1:C:333:TYR:CE2	1:C:335:TRP:CE3	3.06	0.43
1:C:523:ARG:HG3	1:C:523:ARG:O	2.18	0.43
1:C:75:ARG:HD2	1:D:549:ALA:O	2.18	0.43
1:C:439:TYR:CZ	1:D:469:ALA:HB2	76.86	0.43
1:D:523:ARG:O	1:D:523:ARG:HG3	2.18	0.43
1:F:334:SER:N	1:F:435:THR:OG1	2.51	0.43
1:G:75:ARG:HD2	1:N:549:ALA:O	171.28	0.43
1:H:549:ALA:O	1:I:75:ARG:HD2	2.18	0.43
1:I:257:ARG:N	1:I:37:SER:HG	114.90	0.43
1:I:65:HIS:CD2	1:I:205:LYS:HE2	2.53	0.43
1:L:245:THR:HA	1:L:246:PRO:HD2	1.50	0.43
1:L:65:HIS:CD2	1:L:205:LYS:HE2	2.53	0.43
1:C:192:TYR:HD1	1:M:308:ILE:HG21	1.83	0.43
1:M:66:ILE:O	1:M:508:GLY:N	2.48	0.43
1:D:324:THR:HG22	1:N:349:ILE:CD1	2.48	0.43
1:N:334:SER:N	1:N:435:THR:OG1	2.51	0.43
1:G:469:ALA:CB	1:O:439:TYR:CE1	180.29	0.43
1:H:439:TYR:CZ	1:O:469:ALA:HB2	192.36	0.43
1:P:129:LEU:HD12	1:P:133:CYS:SG	2.58	0.43
1:O:549:ALA:O	1:P:75:ARG:HD2	2.18	0.43
1:S:523:ARG:HG3	1:S:523:ARG:O	2.18	0.43
1:N:75:ARG:HD2	1:S:549:ALA:O	138.18	0.43
1:T:333:TYR:CE2	1:T:335:TRP:CE3	3.06	0.43
1:T:357:GLN:CB	1:T:362:SER:HB3	2.47	0.43
1:T:334:SER:N	1:T:435:THR:OG1	2.51	0.43
1:R:469:ALA:CB	1:U:439:TYR:CE1	2.86	0.43
1:V:65:HIS:CD2	1:V:205:LYS:HE2	2.54	0.43
1:O:549:ALA:O	1:V:75:ARG:HD2	167.57	0.43
1:W:38:THR:HG22	1:W:147:ASN:HB3	2.00	0.43
1:W:65:HIS:CD2	1:W:205:LYS:HE2	2.53	0.43
1:Z:65:HIS:CD2	1:Z:205:LYS:HE2	2.54	0.43
1:X:371:GLN:HE22	1:Z:415:SER:C	123.65	0.43
1:H:75:ARG:HD2	1:Z:549:ALA:O	2.18	0.43
1:1:38:THR:HG22	1:1:147:ASN:HB3	2.00	0.43
1:L:37:SER:HG	1:1:257:ARG:N	2.11	0.43
1:I:349:ILE:CD1	1:2:324:THR:HG22	181.23	0.43
1:2:333:TYR:CE2	1:2:335:TRP:CE3	3.06	0.43
1:F:349:ILE:CD1	1:3:324:THR:HG22	157.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:65:HIS:CD2	1:3:205:LYS:HE2	2.54	0.43
1:4:414:GLN:HA	1:4:426:HIS:O	2.17	0.43
1:4:523:ARG:O	1:4:523:ARG:HG3	2.18	0.43
1:5:146:GLU:HA	1:5:147:ASN:HA	1.78	0.43
1:5:191:PHE:CD1	1:5:191:PHE:N	2.81	0.43
1:A:324:THR:HG22	1:5:349:ILE:CD1	174.19	0.43
1:5:109:TRP:HZ3	1:5:485:LYS:CB	2.28	0.43
1:6:129:LEU:HD12	1:6:133:CYS:SG	2.58	0.43
1:Y:371:GLN:HE22	1:6:415:SER:C	192.41	0.43
1:7:334:SER:N	1:7:435:THR:OG1	2.51	0.43
1:A:284:ARG:HD2	1:G:346:GLY:CA	2.44	0.43
1:B:139:SER:O	1:B:269:PHE:N	2.45	0.43
1:B:183:LEU:HB3	1:B:250:MET:SD	2.58	0.43
1:C:38:THR:HG22	1:C:147:ASN:HB3	2.00	0.43
1:C:371:GLN:HE22	1:E:415:SER:C	148.15	0.43
1:C:308:ILE:HG21	1:D:192:TYR:HD1	97.91	0.43
1:F:341:HIS:HE2	1:Q:406:ASP:CG	2.16	0.43
1:H:65:HIS:CD2	1:H:205:LYS:HE2	2.53	0.43
1:H:75:ARG:HD2	1:L:549:ALA:O	150.90	0.43
1:I:308:ILE:HG21	1:J:192:TYR:HD1	78.26	0.43
1:I:334:SER:N	1:I:435:THR:OG1	2.51	0.43
1:I:333:TYR:CE2	1:I:335:TRP:CE3	3.06	0.43
1:I:559:PRO:HA	1:I:560:GLY:HA3	1.80	0.43
1:I:66:ILE:O	1:I:508:GLY:N	2.48	0.43
1:J:146:GLU:HA	1:J:147:ASN:HA	1.79	0.43
1:I:439:TYR:CZ	1:J:469:ALA:HB2	79.60	0.43
1:K:263:GLU:HA	1:K:264:SER:HA	1.76	0.43
1:K:65:HIS:CD2	1:K:205:LYS:HE2	2.53	0.43
1:L:139:SER:O	1:L:269:PHE:N	2.45	0.43
1:J:439:TYR:CZ	1:L:469:ALA:HB2	2.50	0.43
1:M:469:ALA:HB2	1:I:439:TYR:CZ	2.50	0.43
1:N:65:HIS:CD2	1:N:205:LYS:HE2	2.53	0.43
1:Q:89:GLN:NE2	1:Q:229:GLN:HB2	2.28	0.43
1:Q:523:ARG:O	1:Q:523:ARG:HG3	2.18	0.43
1:R:371:GLN:HE22	1:U:415:SER:C	2.22	0.43
1:L:75:ARG:HD2	1:R:549:ALA:O	184.13	0.43
1:S:89:GLN:NE2	1:S:229:GLN:HB2	2.29	0.43
1:T:284:ARG:HD2	1:3:346:GLY:CA	2.44	0.43
1:T:523:ARG:HG3	1:T:523:ARG:O	2.18	0.43
1:T:66:ILE:O	1:T:508:GLY:N	2.48	0.43
1:R:349:ILE:CD1	1:U:324:THR:HG22	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:75:ARG:HD2	1:U:549:ALA:O	150.90	0.43
1:T:346:GLY:CA	1:V:284:ARG:HD2	102.84	0.43
1:V:333:TYR:CE2	1:V:335:TRP:CE3	3.06	0.43
1:V:377:ALA:HB2	1:X:311:TRP:CZ3	2.54	0.43
1:V:334:SER:N	1:V:435:THR:OG1	2.51	0.43
1:W:390:MET:HA	1:W:391:ARG:HA	1.72	0.43
1:Y:349:ILE:CD1	1:6:324:THR:HG22	181.23	0.43
1:H:371:GLN:HE22	1:Y:415:SER:C	2.22	0.43
1:Y:75:ARG:HD2	1:7:549:ALA:O	166.23	0.43
1:0:38:THR:HG22	1:0:147:ASN:HB3	2.00	0.43
1:K:308:ILE:HG21	1:0:192:TYR:HD1	1.83	0.43
1:0:298:GLU:HA	1:0:299:GLY:HA2	1.56	0.43
1:1:414:GLN:HA	1:1:426:HIS:O	2.17	0.43
1:1:557:TYR:CZ	1:1:559:PRO:HG3	2.54	0.43
1:2:101:TYR:CD2	1:2:101:TYR:O	2.70	0.43
1:J:415:SER:C	1:2:371:GLN:HE22	123.61	0.43
1:4:65:HIS:CD2	1:4:205:LYS:HE2	2.53	0.43
1:5:414:GLN:HA	1:5:426:HIS:O	2.17	0.43
1:5:334:SER:N	1:5:435:THR:OG1	2.51	0.43
1:0:415:SER:C	1:7:371:GLN:HE22	2.22	0.43
1:7:59:HIS:HE1	1:7:515:LYS:HZ1	1.66	0.43
1:A:146:GLU:HA	1:A:147:ASN:HA	1.79	0.43
1:B:377:ALA:HB2	1:L:311:TRP:CZ3	2.54	0.43
1:B:75:ARG:HD2	1:C:549:ALA:O	2.18	0.43
1:D:308:ILE:HG21	1:N:192:TYR:HD1	1.83	0.43
1:D:561:ARG:HA	1:D:561:ARG:HD3	1.88	0.43
1:E:38:THR:HG22	1:E:147:ASN:HB3	2.00	0.43
1:E:557:TYR:CZ	1:E:559:PRO:HG3	2.54	0.43
1:F:333:TYR:CE2	1:F:335:TRP:CE3	3.06	0.43
1:F:374:THR:OG1	1:F:396:GLN:O	2.34	0.43
1:F:65:HIS:CD2	1:F:205:LYS:HE2	2.53	0.43
1:G:333:TYR:CE2	1:G:335:TRP:CE3	3.06	0.43
1:F:549:ALA:O	1:G:75:ARG:HD2	2.18	0.43
1:H:38:THR:HG22	1:H:147:ASN:HB3	2.00	0.43
1:I:357:GLN:CB	1:I:362:SER:HB3	2.48	0.43
1:J:65:HIS:CD2	1:J:205:LYS:HE2	2.53	0.43
1:I:549:ALA:O	1:J:75:ARG:HD2	2.19	0.43
1:K:139:SER:O	1:K:269:PHE:N	2.45	0.43
1:K:523:ARG:HG3	1:K:523:ARG:O	2.18	0.43
1:J:549:ALA:O	1:K:75:ARG:HD2	74.62	0.43
1:K:308:ILE:HG21	1:L:192:TYR:HD1	78.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:333:TYR:CE2	1:L:335:TRP:CE3	3.06	0.43
1:M:37:SER:CA	1:N:257:ARG:HG2	2.32	0.43
1:O:133:CYS:HB2	1:O:520:ALA:HB1	2.01	0.43
1:O:65:HIS:CD2	1:O:205:LYS:HE2	2.53	0.43
1:O:183:LEU:HB3	1:O:250:MET:SD	2.58	0.43
1:O:263:GLU:HA	1:O:264:SER:HA	1.76	0.43
1:N:406:ASP:CG	1:O:341:HIS:HE2	71.70	0.43
1:P:100:SER:OG	1:P:100:SER:O	2.23	0.43
1:P:38:THR:HG22	1:P:147:ASN:HB3	2.00	0.43
1:O:37:SER:HG	1:P:257:ARG:N	2.10	0.43
1:N:415:SER:C	1:P:371:GLN:HE22	2.22	0.43
1:P:65:HIS:CD2	1:P:205:LYS:HE2	2.53	0.43
1:Q:38:THR:HG22	1:Q:147:ASN:HB3	2.00	0.43
1:E:324:THR:HG22	1:Q:349:ILE:CD1	2.48	0.43
1:R:146:GLU:HA	1:R:147:ASN:HA	1.79	0.43
1:R:415:SER:C	1:S:371:GLN:HE22	2.21	0.43
1:R:334:SER:N	1:R:435:THR:OG1	2.51	0.43
1:R:559:PRO:HA	1:R:560:GLY:HA3	1.80	0.43
1:T:75:ARG:HD2	1:X:549:ALA:O	150.90	0.43
1:U:523:ARG:O	1:U:523:ARG:HG3	2.18	0.43
1:U:59:HIS:HE1	1:U:515:LYS:HZ1	1.65	0.43
1:V:523:ARG:O	1:V:523:ARG:HG3	2.18	0.43
1:W:66:ILE:O	1:W:508:GLY:N	2.48	0.43
1:X:38:THR:HG22	1:X:147:ASN:HB3	2.00	0.43
1:V:371:GLN:HE22	1:X:415:SER:C	2.22	0.43
1:H:377:ALA:HB2	1:Y:311:TRP:CZ3	2.54	0.43
1:Y:415:SER:C	1:Z:371:GLN:HE22	75.09	0.43
1:O:390:MET:HA	1:O:391:ARG:HA	1.72	0.43
1:1:129:LEU:HD12	1:1:133:CYS:SG	2.58	0.43
1:J:324:THR:HG22	1:2:349:ILE:CD1	123.15	0.43
1:3:557:TYR:CZ	1:3:559:PRO:HG3	2.54	0.43
1:X:377:ALA:HB2	1:4:311:TRP:CZ3	2.54	0.43
1:4:66:ILE:O	1:4:508:GLY:N	2.48	0.43
1:Y:377:ALA:HB2	1:6:311:TRP:CZ3	162.24	0.43
1:6:523:ARG:HG3	1:6:523:ARG:O	2.18	0.43
1:7:523:ARG:HG3	1:7:523:ARG:O	2.18	0.43
1:A:183:LEU:HB3	1:A:250:MET:SD	2.58	0.43
1:B:68:MET:CA	1:B:69:SER:HB3	2.48	0.43
1:C:415:SER:C	1:D:371:GLN:HE22	88.11	0.43
1:C:414:GLN:HA	1:C:426:HIS:O	2.17	0.43
1:C:557:TYR:CZ	1:C:559:PRO:HG3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:469:ALA:HB2	1:F:439:TYR:CZ	2.50	0.43
1:E:192:TYR:HD1	1:F:308:ILE:HG21	1.83	0.43
1:F:371:GLN:HE22	1:3:415:SER:C	167.41	0.43
1:F:133:CYS:HB2	1:F:520:ALA:HB1	2.01	0.43
1:G:308:ILE:HG21	1:I:192:TYR:HD1	1.83	0.43
1:G:38:THR:HG22	1:G:147:ASN:HB3	2.00	0.43
1:G:133:CYS:HB2	1:G:520:ALA:HB1	2.01	0.43
1:H:557:TYR:CZ	1:H:559:PRO:HG3	2.54	0.43
1:I:146:GLU:HA	1:I:147:ASN:HA	1.79	0.43
1:J:357:GLN:CB	1:J:362:SER:HB3	2.48	0.43
1:J:557:TYR:CZ	1:J:559:PRO:HG3	2.54	0.43
1:K:38:THR:HG22	1:K:147:ASN:HB3	2.00	0.43
1:K:349:ILE:CD1	1:7:324:THR:HG22	2.48	0.43
1:K:469:ALA:HB2	1:M:439:TYR:CZ	109.26	0.43
1:K:559:PRO:HA	1:K:560:GLY:HA3	1.80	0.43
1:K:557:TYR:CZ	1:K:559:PRO:HG3	2.54	0.43
1:J:406:ASP:CG	1:L:341:HIS:HE2	2.16	0.43
1:L:133:CYS:HB2	1:L:520:ALA:HB1	2.01	0.43
1:M:371:GLN:HE22	1:1:415:SER:C	2.22	0.43
1:K:371:GLN:HE22	1:M:415:SER:C	124.74	0.43
1:M:523:ARG:HG3	1:M:523:ARG:O	2.18	0.43
1:M:549:ALA:O	1:2:75:ARG:HD2	69.45	0.43
1:N:349:ILE:CD1	1:P:324:THR:HG22	34.77	0.43
1:O:139:SER:O	1:O:269:PHE:N	2.45	0.43
1:O:333:TYR:CE2	1:O:335:TRP:CE3	3.06	0.43
1:N:308:ILE:HG21	1:P:192:TYR:HD1	1.83	0.43
1:P:559:PRO:HA	1:P:560:GLY:HA3	1.80	0.43
1:R:134:ARG:O	1:R:276:LEU:N	2.32	0.43
1:R:65:HIS:CD2	1:R:205:LYS:HE2	2.53	0.43
1:R:75:ARG:HD2	1:V:549:ALA:O	2.18	0.43
1:S:129:LEU:HD12	1:S:133:CYS:SG	2.57	0.43
1:S:557:TYR:CZ	1:S:559:PRO:HG3	2.54	0.43
1:F:324:THR:HG22	1:T:349:ILE:CD1	153.18	0.43
1:U:134:ARG:O	1:U:276:LEU:N	2.32	0.43
1:R:377:ALA:HB2	1:U:311:TRP:CZ3	2.54	0.43
1:U:334:SER:N	1:U:435:THR:OG1	2.51	0.43
1:V:324:THR:HG22	1:4:349:ILE:CD1	2.48	0.43
1:V:415:SER:C	1:4:371:GLN:HE22	2.22	0.43
1:V:133:CYS:HB2	1:V:520:ALA:HB1	2.01	0.43
1:X:146:GLU:HA	1:X:147:ASN:HA	1.79	0.43
1:X:377:ALA:HB2	1:Z:311:TRP:CZ3	91.78	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:469:ALA:HB2	1:Z:439:TYR:CZ	106.96	0.43
1:X:557:TYR:CZ	1:X:559:PRO:HG3	2.54	0.43
1:Y:390:MET:HA	1:Y:391:ARG:HA	1.72	0.43
1:Z:146:GLU:HA	1:Z:147:ASN:HA	1.79	0.43
1:M:192:TYR:HD1	1:I:308:ILE:HG21	1.83	0.43
1:2:557:TYR:CZ	1:2:559:PRO:HG3	2.54	0.43
1:3:357:GLN:CB	1:3:362:SER:HB3	2.47	0.43
1:7:129:LEU:HD12	1:7:133:CYS:SG	2.58	0.43
1:7:397:ASN:N	1:7:398:ASN:HA	2.34	0.43
1:K:371:GLN:HE22	1:7:415:SER:C	2.22	0.43
1:A:192:TYR:HD1	1:B:308:ILE:HG21	78.26	0.43
1:D:415:SER:C	1:N:371:GLN:HE22	2.22	0.43
1:E:65:HIS:CD2	1:E:205:LYS:HE2	2.53	0.43
1:G:146:GLU:HA	1:G:147:ASN:HA	1.79	0.43
1:G:109:TRP:NE1	1:G:247:LEU:CD2	2.82	0.43
1:H:109:TRP:NE1	1:H:247:LEU:CD2	2.82	0.43
1:H:311:TRP:CZ3	1:O:377:ALA:HB2	187.36	0.43
1:H:415:SER:C	1:O:371:GLN:HE22	223.16	0.43
1:I:38:THR:HG22	1:I:147:ASN:HB3	2.00	0.43
1:J:133:CYS:HB2	1:J:520:ALA:HB1	2.01	0.43
1:J:308:ILE:HG21	1:L:192:TYR:HD1	1.83	0.43
1:B:415:SER:C	1:J:371:GLN:HE22	2.22	0.43
1:K:349:ILE:CD1	1:M:324:THR:HG22	125.40	0.43
1:K:439:TYR:CE1	1:L:469:ALA:CB	78.45	0.43
1:L:109:TRP:NE1	1:L:247:LEU:CD2	2.82	0.43
1:M:133:CYS:HB2	1:M:520:ALA:HB1	2.01	0.43
1:M:59:HIS:HE1	1:M:515:LYS:HZ1	1.66	0.43
1:N:549:ALA:O	1:Z:75:ARG:HD2	217.08	0.43
1:N:557:TYR:CZ	1:N:559:PRO:HG3	2.54	0.43
1:O:557:TYR:CZ	1:O:559:PRO:HG3	2.54	0.43
1:Q:109:TRP:NE1	1:Q:247:LEU:CD2	2.82	0.43
1:Q:308:ILE:HG21	1:R:192:TYR:HD1	50.16	0.43
1:Q:318:ASN:HA	1:Q:319:PRO:HA	1.81	0.43
1:Q:549:ALA:O	1:S:75:ARG:HD2	2.18	0.43
1:R:133:CYS:HB2	1:R:520:ALA:HB1	2.01	0.43
1:T:38:THR:HG22	1:T:147:ASN:HB3	2.00	0.43
1:T:192:TYR:HD1	1:V:308:ILE:HG21	80.22	0.43
1:F:406:ASP:CG	1:T:341:HIS:HE2	150.43	0.43
1:V:38:THR:HG22	1:V:147:ASN:HB3	2.00	0.43
1:V:397:ASN:N	1:V:398:ASN:HA	2.34	0.43
1:X:109:TRP:NE1	1:X:247:LEU:CD2	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:491:THR:OG1	1:X:502:SER:O	2.30	0.43
1:Y:65:HIS:CD2	1:Y:205:LYS:HE2	2.54	0.43
1:Z:38:THR:HG22	1:Z:147:ASN:HB3	2.00	0.43
1:Z:557:TYR:CZ	1:Z:559:PRO:HG3	2.54	0.43
1:0:357:GLN:CB	1:0:362:SER:HB3	2.48	0.43
1:0:58:CYS:SG	1:0:516:MET:HB2	2.59	0.43
1:2:183:LEU:HB3	1:2:250:MET:SD	2.58	0.43
1:3:133:CYS:HB2	1:3:520:ALA:HB1	2.01	0.43
1:3:381:TRP:CG	1:3:381:TRP:O	2.70	0.43
1:5:38:THR:HG22	1:5:147:ASN:HB3	2.00	0.43
1:A:423:SER:O	1:5:94:ARG:NE	199.43	0.43
1:6:397:ASN:N	1:6:398:ASN:HA	2.34	0.43
1:B:133:CYS:HB2	1:B:520:ALA:HB1	2.01	0.43
1:B:146:GLU:HA	1:B:147:ASN:HA	1.79	0.43
1:B:311:TRP:CZ3	1:J:377:ALA:HB2	2.54	0.43
1:B:533:LEU:HA	1:B:563:MET:HE1	2.03	0.43
1:D:371:GLN:HE22	1:P:415:SER:C	2.22	0.43
1:D:133:CYS:HB2	1:D:520:ALA:HB1	2.01	0.43
1:D:75:ARG:HD2	1:F:549:ALA:O	94.07	0.43
1:F:334:SER:HG	1:F:435:THR:CB	2.27	0.43
1:F:557:TYR:CZ	1:F:559:PRO:HG3	2.54	0.43
1:G:469:ALA:HB2	1:O:439:TYR:CZ	181.52	0.43
1:G:523:ARG:HG3	1:G:523:ARG:O	2.18	0.43
1:G:557:TYR:CZ	1:G:559:PRO:HG3	2.54	0.43
1:H:469:ALA:HB2	1:Y:439:TYR:CZ	2.50	0.43
1:H:133:CYS:HB2	1:H:520:ALA:HB1	2.01	0.43
1:H:523:ARG:O	1:H:523:ARG:HG3	2.18	0.43
1:I:192:TYR:HD1	1:2:308:ILE:HG21	163.64	0.43
1:J:549:ALA:O	1:0:75:ARG:HD2	2.18	0.43
1:K:58:CYS:SG	1:K:516:MET:HB2	2.59	0.43
1:B:371:GLN:HE22	1:L:415:SER:C	2.22	0.43
1:L:557:TYR:CZ	1:L:559:PRO:HG3	2.54	0.43
1:L:533:LEU:HA	1:L:563:MET:HE1	2.01	0.43
1:M:75:ARG:HD2	1:2:549:ALA:O	2.18	0.43
1:N:177:ALA:HB3	1:N:483:PHE:HB2	2.01	0.43
1:O:146:GLU:HA	1:O:147:ASN:HA	1.79	0.43
1:O:109:TRP:NE1	1:O:247:LEU:CD2	2.82	0.43
1:O:308:ILE:HG21	1:P:192:TYR:HD1	78.25	0.43
1:N:377:ALA:HB2	1:P:311:TRP:CZ3	46.05	0.43
1:O:439:TYR:CZ	1:P:469:ALA:HB2	79.60	0.43
1:Q:133:CYS:HB2	1:Q:520:ALA:HB1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:139:SER:O	1:Q:269:PHE:N	2.45	0.43
1:Q:371:GLN:HE22	1:S:415:SER:C	88.12	0.43
1:Q:415:SER:C	1:R:371:GLN:HE22	75.09	0.43
1:C:37:SER:HG	1:T:257:ARG:N	165.55	0.43
1:T:397:ASN:N	1:T:398:ASN:HA	2.34	0.43
1:U:284:ARG:HD2	1:V:346:GLY:CA	63.80	0.43
1:U:311:TRP:CZ3	1:V:377:ALA:HB2	56.30	0.43
1:U:557:TYR:CZ	1:U:559:PRO:HG3	2.54	0.43
1:V:557:TYR:CZ	1:V:559:PRO:HG3	2.54	0.43
1:W:311:TRP:CZ3	1:Y:377:ALA:HB2	2.54	0.43
1:W:333:TYR:CE2	1:W:335:TRP:CE3	3.06	0.43
1:W:58:CYS:SG	1:W:516:MET:HB2	2.59	0.43
1:X:371:GLN:HE22	1:4:415:SER:C	2.22	0.43
1:X:374:THR:OG1	1:X:396:GLN:O	2.34	0.43
1:X:58:CYS:SG	1:X:516:MET:HB2	2.59	0.43
1:X:559:PRO:HA	1:X:560:GLY:HA3	1.80	0.43
1:Y:133:CYS:HB2	1:Y:520:ALA:HB1	2.01	0.43
1:Y:38:THR:HG22	1:Y:147:ASN:HB3	2.00	0.43
1:H:192:TYR:HD1	1:Y:308:ILE:HG21	1.83	0.43
1:Z:397:ASN:N	1:Z:398:ASN:HA	2.34	0.43
1:0:557:TYR:CZ	1:0:559:PRO:HG3	2.54	0.43
1:1:65:HIS:CD2	1:1:205:LYS:HE2	2.53	0.43
1:T:415:SER:C	1:3:371:GLN:HE22	2.21	0.43
1:3:449:TYR:CD1	1:3:450:PRO:HA	2.54	0.43
1:3:177:ALA:HB3	1:3:483:PHE:HB2	2.01	0.43
1:V:311:TRP:CZ3	1:4:377:ALA:HB2	2.54	0.43
1:4:58:CYS:SG	1:4:516:MET:HB2	2.59	0.43
1:5:89:GLN:NE2	1:5:229:GLN:HB2	2.29	0.43
1:5:397:ASN:N	1:5:398:ASN:HA	2.34	0.43
1:5:115:ASN:O	1:5:454:ILE:HD12	2.19	0.43
1:5:557:TYR:CZ	1:5:559:PRO:HG3	2.54	0.43
1:6:133:CYS:HB2	1:6:520:ALA:HB1	2.01	0.43
1:6:134:ARG:O	1:6:276:LEU:N	2.32	0.43
1:6:557:TYR:CZ	1:6:559:PRO:HG3	2.54	0.43
1:0:308:ILE:HG21	1:7:192:TYR:HD1	1.83	0.43
1:A:311:TRP:CZ3	1:5:377:ALA:HB2	147.60	0.43
1:A:318:ASN:HA	1:A:319:PRO:HA	1.81	0.43
1:A:58:CYS:SG	1:A:516:MET:HB2	2.59	0.43
1:B:245:THR:HA	1:B:246:PRO:HD2	1.50	0.43
1:B:58:CYS:SG	1:B:516:MET:HB2	2.59	0.43
1:C:66:ILE:O	1:C:508:GLY:N	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:109:TRP:NE1	1:F:247:LEU:CD2	2.82	0.43
1:F:377:ALA:HB2	1:3:311:TRP:CZ3	161.10	0.43
1:G:177:ALA:HB3	1:G:483:PHE:HB2	2.01	0.43
1:H:177:ALA:HB3	1:H:483:PHE:HB2	2.01	0.43
1:H:58:CYS:SG	1:H:516:MET:HB2	2.59	0.43
1:I:341:HIS:HE2	1:2:406:ASP:CG	184.46	0.43
1:I:397:ASN:N	1:I:398:ASN:HA	2.34	0.43
1:I:58:CYS:SG	1:I:516:MET:HB2	2.59	0.43
1:J:115:ASN:O	1:J:454:ILE:HD12	2.19	0.43
1:J:38:THR:HG22	1:J:147:ASN:HB3	2.00	0.43
1:I:415:SER:C	1:J:371:GLN:HE22	97.74	0.43
1:J:397:ASN:N	1:J:398:ASN:HA	2.34	0.43
1:K:377:ALA:HB2	1:7:311:TRP:CZ3	2.54	0.43
1:K:549:ALA:O	1:S:75:ARG:HD2	200.77	0.43
1:K:439:TYR:CZ	1:L:469:ALA:HB2	79.60	0.43
1:L:58:CYS:SG	1:L:516:MET:HB2	2.59	0.43
1:M:431:SER:OG	1:M:433:HIS:CD2	2.68	0.43
1:M:58:CYS:SG	1:M:516:MET:HB2	2.59	0.43
1:N:109:TRP:NE1	1:N:247:LEU:CD2	2.82	0.43
1:M:37:SER:HG	1:N:257:ARG:N	2.10	0.43
1:N:133:CYS:HB2	1:N:520:ALA:HB1	2.01	0.43
1:H:324:THR:HG22	1:O:349:ILE:CD1	206.01	0.43
1:O:75:ARG:HD2	1:3:549:ALA:O	2.19	0.43
1:P:115:ASN:O	1:P:454:ILE:HD12	2.19	0.43
1:P:177:ALA:HB3	1:P:483:PHE:HB2	2.01	0.43
1:P:557:TYR:CZ	1:P:559:PRO:HG3	2.54	0.43
1:Q:298:GLU:HA	1:Q:299:GLY:HA2	1.56	0.43
1:Q:115:ASN:O	1:Q:454:ILE:HD12	2.19	0.43
1:Q:177:ALA:HB3	1:Q:483:PHE:HB2	2.01	0.43
1:Q:557:TYR:CZ	1:Q:559:PRO:HG3	2.54	0.43
1:S:311:TRP:CZ3	1:U:377:ALA:HB2	2.54	0.43
1:S:397:ASN:N	1:S:398:ASN:HA	2.34	0.43
1:S:115:ASN:O	1:S:454:ILE:HD12	2.19	0.43
1:S:177:ALA:HB3	1:S:483:PHE:HB2	2.01	0.43
1:T:146:GLU:HA	1:T:147:ASN:HA	1.79	0.43
1:T:58:CYS:SG	1:T:516:MET:HB2	2.59	0.43
1:T:311:TRP:CZ3	1:U:377:ALA:HB2	91.36	0.43
1:U:397:ASN:N	1:U:398:ASN:HA	2.34	0.43
1:U:133:CYS:HB2	1:U:520:ALA:HB1	2.01	0.43
1:W:133:CYS:HB2	1:W:520:ALA:HB1	2.01	0.43
1:X:357:GLN:CB	1:X:362:SER:HB3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:133:CYS:HB2	1:X:520:ALA:HB1	2.01	0.43
1:Y:115:ASN:O	1:Y:454:ILE:HD12	2.19	0.43
1:X:192:TYR:HD1	1:Z:308:ILE:HG21	80.22	0.43
1:0:109:TRP:NE1	1:0:247:LEU:CD2	2.82	0.43
1:J:37:SER:HG	1:0:257:ARG:N	2.10	0.43
1:K:415:SER:C	1:0:371:GLN:HE22	2.22	0.43
1:0:177:ALA:HB3	1:0:483:PHE:HB2	2.01	0.43
1:1:139:SER:O	1:1:269:PHE:N	2.45	0.43
1:1:59:HIS:HE1	1:1:515:LYS:HZ1	1.66	0.43
1:J:311:TRP:CZ3	1:2:377:ALA:HB2	101.00	0.43
1:3:38:THR:HG22	1:3:147:ASN:HB3	2.00	0.43
1:6:115:ASN:O	1:6:454:ILE:HD12	2.19	0.43
1:6:449:TYR:CD1	1:6:450:PRO:HA	2.54	0.43
1:W:37:SER:HG	1:7:257:ARG:N	149.67	0.43
1:7:65:HIS:CD2	1:7:205:LYS:HE2	2.53	0.43
1:A:557:TYR:CZ	1:A:559:PRO:HG3	2.54	0.43
1:B:397:ASN:N	1:B:398:ASN:HA	2.34	0.43
1:B:115:ASN:O	1:B:454:ILE:HD12	2.19	0.43
1:C:65:HIS:CD2	1:C:205:LYS:HE2	2.54	0.43
1:C:177:ALA:HB3	1:C:483:PHE:HB2	2.01	0.43
1:D:431:SER:OG	1:D:433:HIS:CD2	2.68	0.43
1:E:415:SER:C	1:Q:371:GLN:HE22	2.22	0.43
1:F:58:CYS:SG	1:F:516:MET:HB2	2.59	0.43
1:F:75:ARG:HD2	1:H:549:ALA:O	111.94	0.43
1:G:311:TRP:CZ3	1:I:377:ALA:HB2	2.54	0.43
1:G:58:CYS:SG	1:G:516:MET:HB2	2.59	0.43
1:I:334:SER:HG	1:I:435:THR:CB	2.26	0.43
1:J:134:ARG:O	1:J:276:LEU:N	2.32	0.43
1:J:177:ALA:HB3	1:J:483:PHE:HB2	2.01	0.43
1:J:449:TYR:CD1	1:J:450:PRO:HA	2.54	0.43
1:K:333:TYR:CE2	1:K:335:TRP:CE3	3.06	0.43
1:K:377:ALA:HB2	1:M:311:TRP:CZ3	99.38	0.43
1:K:449:TYR:CD1	1:K:450:PRO:HA	2.54	0.43
1:L:374:THR:OG1	1:L:396:GLN:O	2.34	0.43
1:L:177:ALA:HB3	1:L:483:PHE:HB2	2.01	0.43
1:M:177:ALA:HB3	1:M:483:PHE:HB2	2.01	0.43
1:N:115:ASN:O	1:N:454:ILE:HD12	2.19	0.43
1:N:58:CYS:SG	1:N:516:MET:HB2	2.59	0.43
1:O:397:ASN:N	1:O:398:ASN:HA	2.34	0.43
1:O:58:CYS:SG	1:O:516:MET:HB2	2.59	0.43
1:P:109:TRP:NE1	1:P:247:LEU:CD2	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:225:ASP:CB	1:P:226:ARG:HB2	2.39	0.43
1:P:397:ASN:N	1:P:398:ASN:HA	2.34	0.43
1:N:371:GLN:HE22	1:P:415:SER:C	29.94	0.43
1:P:449:TYR:CD1	1:P:450:PRO:HA	2.54	0.43
1:E:311:TRP:CZ3	1:Q:377:ALA:HB2	2.54	0.43
1:E:439:TYR:CZ	1:Q:469:ALA:HB2	2.50	0.43
1:Q:58:CYS:SG	1:Q:516:MET:HB2	2.59	0.43
1:S:109:TRP:NE1	1:S:247:LEU:CD2	2.82	0.43
1:U:58:CYS:SG	1:U:516:MET:HB2	2.59	0.43
1:W:146:GLU:HA	1:W:147:ASN:HA	1.79	0.43
1:W:415:SER:C	1:Z:371:GLN:HE22	61.54	0.43
1:V:192:TYR:HD1	1:X:308:ILE:HG21	1.83	0.43
1:X:177:ALA:HB3	1:X:483:PHE:HB2	2.01	0.43
1:Y:245:THR:HA	1:Y:246:PRO:HD2	1.50	0.43
1:Y:557:TYR:CZ	1:Y:559:PRO:HG3	2.54	0.43
1:Z:115:ASN:O	1:Z:454:ILE:HD12	2.19	0.43
1:Z:311:TRP:CZ3	1:6:377:ALA:HB2	137.35	0.43
1:W:311:TRP:CZ3	1:Z:377:ALA:HB2	46.80	0.43
1:0:146:GLU:HA	1:0:147:ASN:HA	1.78	0.43
1:0:334:SER:N	1:0:435:THR:OG1	2.51	0.43
1:0:379:TYR:CE1	1:0:451:TRP:CE2	3.07	0.43
1:0:491:THR:OG1	1:0:502:SER:O	2.30	0.43
1:3:397:ASN:N	1:3:398:ASN:HA	2.34	0.43
1:B:98:ASN:ND2	1:5:316:ARG:HH22	237.83	0.43
1:6:109:TRP:NE1	1:6:247:LEU:CD2	2.82	0.43
1:6:263:GLU:HA	1:6:264:SER:HA	1.76	0.43
1:7:115:ASN:O	1:7:454:ILE:HD12	2.19	0.43
1:A:112:LEU:HD11	1:A:482:LEU:HD23	2.01	0.43
1:A:115:ASN:O	1:A:454:ILE:HD12	2.19	0.43
1:A:397:ASN:N	1:A:398:ASN:HA	2.34	0.43
1:A:158:ALA:HA	1:B:161:GLN:HB3	2.01	0.43
1:B:246:PRO:HG3	1:5:528:TRP:HB3	195.96	0.43
1:D:318:ASN:HA	1:D:319:PRO:HA	1.81	0.43
1:D:43:ASN:HD22	1:D:200:PRO:HB3	1.84	0.43
1:E:43:ASN:HD22	1:E:200:PRO:HB3	1.84	0.43
1:G:415:SER:C	1:H:371:GLN:HE22	75.09	0.43
1:I:109:TRP:NE1	1:I:247:LEU:CD2	2.82	0.43
1:A:100:SER:HB2	1:I:322:ALA:HB3	2.01	0.43
1:K:397:ASN:N	1:K:398:ASN:HA	2.34	0.43
1:B:192:TYR:HD1	1:L:308:ILE:HG21	1.83	0.43
1:L:397:ASN:N	1:L:398:ASN:HA	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:112:LEU:HD11	1:L:482:LEU:HD23	2.01	0.43
1:K:549:ALA:O	1:L:75:ARG:HD2	2.18	0.43
1:M:115:ASN:O	1:M:454:ILE:HD12	2.19	0.43
1:N:146:GLU:HA	1:N:147:ASN:HA	1.79	0.43
1:N:43:ASN:HD22	1:N:200:PRO:HB3	1.84	0.43
1:O:449:TYR:CD1	1:O:450:PRO:HA	2.54	0.43
1:P:390:MET:HA	1:P:391:ARG:HA	1.72	0.43
1:Q:43:ASN:HD22	1:Q:200:PRO:HB3	1.84	0.43
1:Q:449:TYR:CD1	1:Q:450:PRO:HA	2.54	0.43
1:R:109:TRP:NE1	1:R:247:LEU:CD2	2.82	0.43
1:R:115:ASN:O	1:R:454:ILE:HD12	2.19	0.43
1:R:112:LEU:HD11	1:R:482:LEU:HD23	2.01	0.43
1:S:38:THR:HG22	1:S:147:ASN:HB3	2.00	0.43
1:F:308:ILE:HG21	1:T:192:TYR:HD1	157.40	0.43
1:T:334:SER:HG	1:T:435:THR:CB	3.10	0.43
1:T:377:ALA:HB2	1:V:311:TRP:CZ3	91.78	0.43
1:U:109:TRP:NE1	1:U:247:LEU:CD2	2.82	0.43
1:U:390:MET:HA	1:U:391:ARG:HA	1.72	0.43
1:U:449:TYR:CD1	1:U:450:PRO:HA	2.54	0.43
1:U:460:ASP:OD1	1:U:460:ASP:N	2.50	0.43
1:U:112:LEU:HD11	1:U:482:LEU:HD23	2.01	0.43
1:V:112:LEU:HD11	1:V:482:LEU:HD23	2.01	0.43
1:V:115:ASN:O	1:V:454:ILE:HD12	2.19	0.43
1:V:177:ALA:HB3	1:V:483:PHE:HB2	2.01	0.43
1:W:357:GLN:CB	1:W:362:SER:HB3	2.48	0.43
1:H:311:TRP:CZ3	1:W:377:ALA:HB2	2.54	0.43
1:W:549:ALA:O	1:7:75:ARG:HD2	171.28	0.43
1:X:334:SER:N	1:X:435:THR:OG1	2.51	0.43
1:Y:449:TYR:CD1	1:Y:450:PRO:HA	2.54	0.43
1:Z:58:CYS:SG	1:Z:516:MET:HB2	2.59	0.43
1:Z:523:ARG:HG3	1:Z:523:ARG:O	2.18	0.43
1:Z:561:ARG:HA	1:Z:561:ARG:HD3	1.88	0.43
1:1:177:ALA:HB3	1:1:483:PHE:HB2	2.01	0.42
1:1:66:ILE:O	1:1:508:GLY:N	2.48	0.42
1:2:382:ASN:OD1	1:2:392:GLU:HG2	2.19	0.42
1:4:109:TRP:NE1	1:4:247:LEU:CD2	2.82	0.42
1:4:559:PRO:HA	1:4:560:GLY:HA3	1.80	0.42
1:U:549:ALA:O	1:4:75:ARG:HD2	2.18	0.42
1:T:549:ALA:O	1:5:75:ARG:HD2	138.19	0.42
1:6:334:SER:N	1:6:435:THR:OG1	2.51	0.42
1:6:460:ASP:OD1	1:6:460:ASP:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:112:LEU:HD11	1:7:482:LEU:HD23	2.01	0.42
1:A:109:TRP:NE1	1:A:247:LEU:CD2	2.82	0.42
1:C:139:SER:O	1:C:269:PHE:N	2.45	0.42
1:C:43:ASN:HD22	1:C:200:PRO:HB3	1.84	0.42
1:C:133:CYS:HB2	1:C:520:ALA:HB1	2.01	0.42
1:D:379:TYR:CE1	1:D:451:TRP:CE2	3.07	0.42
1:D:115:ASN:O	1:D:454:ILE:HD12	2.19	0.42
1:E:115:ASN:O	1:E:454:ILE:HD12	2.19	0.42
1:E:133:CYS:HB2	1:E:520:ALA:HB1	2.01	0.42
1:E:333:TYR:CE2	1:E:335:TRP:CE3	3.06	0.42
1:E:354:PRO:HA	1:E:373:ALA:HB3	2.01	0.42
1:E:449:TYR:CD1	1:E:450:PRO:HA	2.54	0.42
1:E:559:PRO:HA	1:E:560:GLY:HA3	1.80	0.42
1:E:561:ARG:HD3	1:E:561:ARG:HA	1.88	0.42
1:F:516:MET:O	1:F:517:ILE:HD13	2.20	0.42
1:F:75:ARG:HD2	1:R:549:ALA:O	2.18	0.42
1:G:112:LEU:HD11	1:G:482:LEU:HD23	2.01	0.42
1:G:245:THR:HA	1:G:246:PRO:HD2	1.50	0.42
1:G:397:ASN:N	1:G:398:ASN:HA	2.34	0.42
1:G:379:TYR:CE1	1:G:451:TRP:CE2	3.07	0.42
1:G:511:TRP:HE1	1:M:173:LEU:CD1	169.92	0.42
1:H:382:ASN:OD1	1:H:392:GLU:HG2	2.19	0.42
1:H:559:PRO:HA	1:H:560:GLY:HA3	1.80	0.42
1:I:250:MET:HB2	1:I:251:ILE:HG23	2.02	0.42
1:J:311:TRP:CZ3	1:L:377:ALA:HB2	2.54	0.42
1:K:379:TYR:CE1	1:K:451:TRP:CE2	3.07	0.42
1:K:75:ARG:HD2	1:6:549:ALA:O	2.18	0.42
1:M:43:ASN:HD22	1:M:200:PRO:HB3	1.84	0.42
1:N:382:ASN:OD1	1:N:392:GLU:HG2	2.19	0.42
1:N:449:TYR:CD1	1:N:450:PRO:HA	2.54	0.42
1:N:469:ALA:HB2	1:P:439:TYR:CZ	21.74	0.42
1:N:112:LEU:HD11	1:N:482:LEU:HD23	2.01	0.42
1:N:559:PRO:HA	1:N:560:GLY:HA3	1.80	0.42
1:P:354:PRO:HA	1:P:373:ALA:HB3	2.02	0.42
1:Q:354:PRO:HA	1:Q:373:ALA:HB3	2.02	0.42
1:Q:382:ASN:OD1	1:Q:392:GLU:HG2	2.19	0.42
1:R:357:GLN:CB	1:R:362:SER:HB3	2.47	0.42
1:R:177:ALA:HB3	1:R:483:PHE:HB2	2.01	0.42
1:R:58:CYS:SG	1:R:516:MET:HB2	2.59	0.42
1:S:58:CYS:SG	1:S:516:MET:HB2	2.59	0.42
1:T:109:TRP:NE1	1:T:247:LEU:CD2	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:115:ASN:O	1:U:454:ILE:HD12	2.19	0.42
1:W:377:ALA:HB2	1:X:311:TRP:CZ3	56.30	0.42
1:W:415:SER:C	1:Y:371:GLN:HE22	2.21	0.42
1:W:557:TYR:CZ	1:W:559:PRO:HG3	2.54	0.42
1:X:354:PRO:HA	1:X:373:ALA:HB3	2.02	0.42
1:X:397:ASN:N	1:X:398:ASN:HA	2.34	0.42
1:X:43:ASN:HD22	1:X:200:PRO:HB3	1.84	0.42
1:X:379:TYR:CE1	1:X:451:TRP:CE2	3.07	0.42
1:Y:109:TRP:NE1	1:Y:247:LEU:CD2	2.82	0.42
1:Y:250:MET:HB2	1:Y:251:ILE:HG23	2.01	0.42
1:Z:449:TYR:CD1	1:Z:450:PRO:HA	2.54	0.42
1:0:318:ASN:HA	1:0:319:PRO:HA	1.81	0.42
1:0:397:ASN:N	1:0:398:ASN:HA	2.34	0.42
1:0:43:ASN:HD22	1:0:200:PRO:HB3	1.84	0.42
1:1:109:TRP:NE1	1:1:247:LEU:CD2	2.82	0.42
1:1:516:MET:O	1:1:517:ILE:HD13	2.20	0.42
1:1:543:GLN:HA	1:1:546:VAL:HG12	2.02	0.42
1:2:516:MET:O	1:2:517:ILE:HD13	2.20	0.42
1:2:523:ARG:HG3	1:2:523:ARG:O	2.18	0.42
1:B:340:ILE:N	1:5:412:ALA:O	232.06	0.42
1:5:449:TYR:CD1	1:5:450:PRO:HA	2.54	0.42
1:6:38:THR:HG22	1:6:147:ASN:HB3	2.00	0.42
1:6:516:MET:O	1:6:517:ILE:HD13	2.20	0.42
1:7:38:THR:HG22	1:7:147:ASN:HB3	2.00	0.42
1:A:43:ASN:HD22	1:A:200:PRO:HB3	1.84	0.42
1:B:318:ASN:HA	1:B:319:PRO:HA	1.81	0.42
1:B:43:ASN:HD22	1:B:200:PRO:HB3	1.84	0.42
1:B:543:GLN:HA	1:B:546:VAL:HG12	2.02	0.42
1:B:98:ASN:HA	1:L:323:SER:HG	1.78	0.42
1:C:379:TYR:CE1	1:C:451:TRP:CE2	3.07	0.42
1:C:58:CYS:SG	1:C:516:MET:HB2	2.59	0.42
1:C:516:MET:O	1:C:517:ILE:HD13	2.20	0.42
1:D:397:ASN:N	1:D:398:ASN:HA	2.34	0.42
1:D:543:GLN:HA	1:D:546:VAL:HG12	2.02	0.42
1:E:382:ASN:OD1	1:E:392:GLU:HG2	2.19	0.42
1:E:58:CYS:SG	1:E:516:MET:HB2	2.59	0.42
1:E:543:GLN:HA	1:E:546:VAL:HG12	2.02	0.42
1:F:250:MET:HB2	1:F:251:ILE:HG23	2.02	0.42
1:F:382:ASN:OD1	1:F:392:GLU:HG2	2.19	0.42
1:G:354:PRO:HA	1:G:373:ALA:HB3	2.02	0.42
1:G:115:ASN:O	1:G:454:ILE:HD12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:354:PRO:HA	1:H:373:ALA:HB3	2.02	0.42
1:H:43:ASN:HD22	1:H:200:PRO:HB3	1.84	0.42
1:I:382:ASN:OD1	1:I:392:GLU:HG2	2.19	0.42
1:I:557:TYR:CZ	1:I:559:PRO:HG3	2.54	0.42
1:J:382:ASN:OD1	1:J:392:GLU:HG2	2.20	0.42
1:K:109:TRP:NE1	1:K:247:LEU:CD2	2.82	0.42
1:K:177:ALA:HB3	1:K:483:PHE:HB2	2.01	0.42
1:K:415:SER:C	1:L:371:GLN:HE22	97.74	0.42
1:H:173:LEU:CD1	1:L:511:TRP:HE1	111.43	0.42
1:L:543:GLN:HA	1:L:546:VAL:HG12	2.02	0.42
1:M:379:TYR:CE1	1:M:451:TRP:CE2	3.07	0.42
1:M:382:ASN:OD1	1:M:392:GLU:HG2	2.19	0.42
1:M:557:TYR:CZ	1:M:559:PRO:HG3	2.54	0.42
1:N:109:TRP:O	1:N:209:TYR:HB3	2.20	0.42
1:N:379:TYR:CE1	1:N:451:TRP:CE2	3.07	0.42
1:N:543:GLN:HA	1:N:546:VAL:HG12	2.02	0.42
1:O:415:SER:C	1:P:371:GLN:HE22	97.74	0.42
1:O:379:TYR:CE1	1:O:451:TRP:CE2	3.07	0.42
1:O:75:ARG:HD2	1:Y:549:ALA:O	217.09	0.42
1:O:311:TRP:CZ3	1:P:377:ALA:HB2	91.35	0.42
1:P:382:ASN:OD1	1:P:392:GLU:HG2	2.19	0.42
1:P:516:MET:O	1:P:517:ILE:HD13	2.19	0.42
1:P:543:GLN:HA	1:P:546:VAL:HG12	2.02	0.42
1:Q:379:TYR:CE1	1:Q:451:TRP:CE2	3.07	0.42
1:R:109:TRP:O	1:R:209:TYR:HB3	2.20	0.42
1:S:112:LEU:HD11	1:S:482:LEU:HD23	2.02	0.42
1:Q:37:SER:HG	1:S:257:ARG:N	2.13	0.42
1:S:449:TYR:CD1	1:S:450:PRO:HA	2.54	0.42
1:S:516:MET:O	1:S:517:ILE:HD13	2.19	0.42
1:T:250:MET:HB2	1:T:251:ILE:HG23	2.02	0.42
1:T:379:TYR:CE1	1:T:451:TRP:CE2	3.07	0.42
1:U:43:ASN:HD22	1:U:200:PRO:HB3	1.84	0.42
1:U:379:TYR:CE1	1:U:451:TRP:CE2	3.07	0.42
1:U:109:TRP:HZ3	1:U:485:LYS:CB	2.27	0.42
1:V:109:TRP:NE1	1:V:247:LEU:CD2	2.82	0.42
1:V:354:PRO:HA	1:V:373:ALA:HB3	2.01	0.42
1:V:379:TYR:CE1	1:V:451:TRP:CE2	3.07	0.42
1:W:43:ASN:HD22	1:W:200:PRO:HB3	1.84	0.42
1:H:439:TYR:CZ	1:W:469:ALA:HB2	2.50	0.42
1:W:516:MET:O	1:W:517:ILE:HD13	2.20	0.42
1:V:75:ARG:HD2	1:W:549:ALA:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:68:MET:SD	1:W:503:ARG:NE	2.92	0.42
1:X:134:ARG:O	1:X:276:LEU:N	2.32	0.42
1:X:543:GLN:HA	1:X:546:VAL:HG12	2.02	0.42
1:Y:177:ALA:HB3	1:Y:483:PHE:HB2	2.01	0.42
1:Y:382:ASN:OD1	1:Y:392:GLU:HG2	2.19	0.42
1:Y:112:LEU:HD11	1:Y:482:LEU:HD23	2.01	0.42
1:Y:516:MET:O	1:Y:517:ILE:HD13	2.20	0.42
1:Y:523:ARG:O	1:Y:523:ARG:HG3	2.18	0.42
1:Z:382:ASN:OD1	1:Z:392:GLU:HG2	2.19	0.42
1:Z:112:LEU:HD11	1:Z:482:LEU:HD23	2.01	0.42
1:Z:516:MET:O	1:Z:517:ILE:HD13	2.20	0.42
1:0:250:MET:HB2	1:0:251:ILE:HG23	2.01	0.42
1:0:366:GLY:HA2	1:0:367:THR:HA	1.76	0.42
1:2:38:THR:HG22	1:2:147:ASN:HB3	2.00	0.42
1:2:397:ASN:HB2	1:2:399:GLU:N	2.35	0.42
1:2:43:ASN:HD22	1:2:200:PRO:HB3	1.84	0.42
1:2:379:TYR:CE1	1:2:451:TRP:CE2	3.07	0.42
1:T:311:TRP:CZ3	1:3:377:ALA:HB2	2.54	0.42
1:4:43:ASN:HD22	1:4:200:PRO:HB3	1.84	0.42
1:4:177:ALA:HB3	1:4:483:PHE:HB2	2.01	0.42
1:6:43:ASN:HD22	1:6:200:PRO:HB3	1.84	0.42
1:6:58:CYS:SG	1:6:516:MET:HB2	2.59	0.42
1:7:250:MET:HB2	1:7:251:ILE:HG23	2.02	0.42
1:0:439:TYR:CZ	1:7:469:ALA:HB2	2.50	0.42
1:A:316:ARG:HH22	1:G:98:ASN:ND2	2.18	0.42
1:A:379:TYR:CE1	1:A:451:TRP:CE2	3.07	0.42
1:A:177:ALA:HB3	1:A:483:PHE:HB2	2.01	0.42
1:B:109:TRP:NE1	1:B:247:LEU:CD2	2.82	0.42
1:B:516:MET:O	1:B:517:ILE:HD13	2.20	0.42
1:C:397:ASN:N	1:C:398:ASN:HA	2.34	0.42
1:C:543:GLN:HA	1:C:546:VAL:HG12	2.02	0.42
1:D:109:TRP:NE1	1:D:247:LEU:CD2	2.82	0.42
1:D:354:PRO:HA	1:D:373:ALA:HB3	2.02	0.42
1:D:382:ASN:OD1	1:D:392:GLU:HG2	2.20	0.42
1:D:449:TYR:CD1	1:D:450:PRO:HA	2.54	0.42
1:D:68:MET:SD	1:D:503:ARG:NE	2.92	0.42
1:E:318:ASN:HA	1:E:319:PRO:HA	1.81	0.42
1:E:377:ALA:HB2	1:F:311:TRP:CZ3	2.54	0.42
1:F:43:ASN:HD22	1:F:200:PRO:HB3	1.84	0.42
1:F:354:PRO:HA	1:F:373:ALA:HB3	2.01	0.42
1:F:379:TYR:CE1	1:F:451:TRP:CE2	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:397:ASN:N	1:F:398:ASN:HA	2.34	0.42
1:H:115:ASN:O	1:H:454:ILE:HD12	2.19	0.42
1:G:308:ILE:HG21	1:H:192:TYR:HD1	50.17	0.42
1:H:397:ASN:HB2	1:H:399:GLU:N	2.35	0.42
1:H:109:TRP:HZ3	1:H:485:LYS:CB	2.27	0.42
1:H:543:GLN:HA	1:H:546:VAL:HG12	2.02	0.42
1:I:109:TRP:O	1:I:209:TYR:HB3	2.20	0.42
1:I:112:LEU:HD11	1:I:482:LEU:HD23	2.01	0.42
1:I:118:GLY:HA2	1:I:449:TYR:CE1	2.55	0.42
1:I:379:TYR:CE1	1:I:451:TRP:CE2	3.07	0.42
1:I:516:MET:O	1:I:517:ILE:HD13	2.20	0.42
1:J:58:CYS:SG	1:J:516:MET:HB2	2.59	0.42
1:K:115:ASN:O	1:K:454:ILE:HD12	2.19	0.42
1:K:43:ASN:HD22	1:K:200:PRO:HB3	1.84	0.42
1:L:415:SER:C	1:M:371:GLN:HE22	102.10	0.42
1:L:379:TYR:CE1	1:L:451:TRP:CE2	3.07	0.42
1:M:397:ASN:N	1:M:398:ASN:HA	2.34	0.42
1:M:397:ASN:HB2	1:M:399:GLU:N	2.35	0.42
1:M:68:MET:SD	1:M:503:ARG:NE	2.92	0.42
1:N:354:PRO:HA	1:N:373:ALA:HB3	2.01	0.42
1:N:397:ASN:HB2	1:N:399:GLU:N	2.35	0.42
1:O:250:MET:HB2	1:O:251:ILE:HG23	2.02	0.42
1:O:354:PRO:HA	1:O:373:ALA:HB3	2.01	0.42
1:O:177:ALA:HB3	1:O:483:PHE:HB2	2.01	0.42
1:P:250:MET:HB2	1:P:251:ILE:HG23	2.02	0.42
1:P:58:CYS:SG	1:P:516:MET:HB2	2.59	0.42
1:Q:109:TRP:O	1:Q:209:TYR:HB3	2.20	0.42
1:Q:516:MET:O	1:Q:517:ILE:HD13	2.20	0.42
1:Q:543:GLN:HA	1:Q:546:VAL:HG12	2.02	0.42
1:R:250:MET:HB2	1:R:251:ILE:HG23	2.02	0.42
1:R:449:TYR:CD1	1:R:450:PRO:HA	2.54	0.42
1:S:250:MET:HB2	1:S:251:ILE:HG23	2.01	0.42
1:T:118:GLY:HA2	1:T:449:TYR:CE1	2.55	0.42
1:T:109:TRP:O	1:T:209:TYR:HB3	2.20	0.42
1:T:322:ALA:HB3	1:U:100:SER:HB2	67.05	0.42
1:T:382:ASN:OD1	1:T:392:GLU:HG2	2.20	0.42
1:T:43:ASN:HD22	1:T:200:PRO:HB3	1.84	0.42
1:T:449:TYR:CD1	1:T:450:PRO:HA	2.54	0.42
1:T:112:LEU:HD11	1:T:482:LEU:HD23	2.01	0.42
1:T:516:MET:O	1:T:517:ILE:HD13	2.20	0.42
1:V:469:ALA:HB2	1:X:439:TYR:CZ	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:109:TRP:NE1	1:W:247:LEU:CD2	2.82	0.42
1:X:382:ASN:OD1	1:X:392:GLU:HG2	2.20	0.42
1:X:115:ASN:O	1:X:454:ILE:HD12	2.19	0.42
1:Y:311:TRP:CZ3	1:Z:377:ALA:HB2	56.30	0.42
1:Y:397:ASN:HB2	1:Y:399:GLU:N	2.35	0.42
1:Y:58:CYS:SG	1:Y:516:MET:HB2	2.59	0.42
1:Z:109:TRP:O	1:Z:209:TYR:HB3	2.20	0.42
1:0:333:TYR:CE2	1:0:335:TRP:CE3	3.06	0.42
1:0:374:THR:OG1	1:0:396:GLN:O	2.34	0.42
1:0:115:ASN:O	1:0:454:ILE:HD12	2.19	0.42
1:1:379:TYR:CE1	1:1:451:TRP:CE2	3.07	0.42
1:1:43:ASN:HD22	1:1:200:PRO:HB3	1.85	0.42
1:2:109:TRP:O	1:2:209:TYR:HB3	2.20	0.42
1:2:354:PRO:HA	1:2:373:ALA:HB3	2.02	0.42
1:2:177:ALA:HB3	1:2:483:PHE:HB2	2.01	0.42
1:2:65:HIS:CD2	1:2:205:LYS:HE2	2.53	0.42
1:3:382:ASN:OD1	1:3:392:GLU:HG2	2.20	0.42
1:4:38:THR:HG22	1:4:147:ASN:HB3	2.00	0.42
1:4:449:TYR:CD1	1:4:450:PRO:HA	2.54	0.42
1:A:415:SER:C	1:5:371:GLN:HE22	183.42	0.42
1:6:390:MET:HA	1:6:391:ARG:HA	1.72	0.42
1:7:379:TYR:CE1	1:7:451:TRP:CE2	3.07	0.42
1:A:449:TYR:CD1	1:A:450:PRO:HA	2.54	0.42
1:B:115:ASN:C	1:B:190:ASN:HD21	2.23	0.42
1:A:340:ILE:N	1:B:412:ALA:O	77.67	0.42
1:B:177:ALA:HB3	1:B:483:PHE:HB2	2.01	0.42
1:C:100:SER:HB2	1:E:322:ALA:HB3	116.72	0.42
1:C:109:TRP:NE1	1:C:247:LEU:CD2	2.82	0.42
1:C:374:THR:OG1	1:C:396:GLN:O	2.34	0.42
1:D:112:LEU:HD11	1:D:482:LEU:HD23	2.02	0.42
1:D:109:TRP:O	1:D:209:TYR:HB3	2.20	0.42
1:D:557:TYR:CZ	1:D:559:PRO:HG3	2.54	0.42
1:D:94:ARG:NE	1:P:423:SER:O	2.53	0.42
1:E:397:ASN:N	1:E:398:ASN:HA	2.34	0.42
1:E:423:SER:O	1:Q:94:ARG:NE	2.53	0.42
1:F:397:ASN:HB2	1:F:399:GLU:N	2.35	0.42
1:G:100:SER:HB2	1:O:322:ALA:HB3	187.08	0.42
1:G:371:GLN:HE22	1:O:415:SER:C	213.94	0.42
1:G:397:ASN:HB2	1:G:399:GLU:N	2.35	0.42
1:H:112:LEU:HD11	1:H:482:LEU:HD23	2.01	0.42
1:I:311:TRP:CZ3	1:J:377:ALA:HB2	91.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:43:ASN:HD22	1:I:200:PRO:HB3	1.84	0.42
1:I:115:ASN:O	1:I:454:ILE:HD12	2.19	0.42
1:J:333:TYR:CE2	1:J:335:TRP:CE3	3.06	0.42
1:K:109:TRP:O	1:K:209:TYR:HB3	2.20	0.42
1:K:354:PRO:HA	1:K:373:ALA:HB3	2.01	0.42
1:K:543:GLN:HA	1:K:546:VAL:HG12	2.02	0.42
1:L:357:GLN:CB	1:L:362:SER:HB3	2.47	0.42
1:L:115:ASN:O	1:L:454:ILE:HD12	2.19	0.42
1:L:516:MET:O	1:L:517:ILE:HD13	2.20	0.42
1:M:109:TRP:O	1:M:209:TYR:HB3	2.20	0.42
1:M:112:LEU:HD11	1:M:482:LEU:HD23	2.01	0.42
1:N:357:GLN:CB	1:N:362:SER:HB3	2.48	0.42
1:N:118:GLY:HA2	1:N:449:TYR:CE1	2.55	0.42
1:N:516:MET:O	1:N:517:ILE:HD13	2.20	0.42
1:O:109:TRP:O	1:O:209:TYR:HB3	2.20	0.42
1:O:43:ASN:HD22	1:O:200:PRO:HB3	1.84	0.42
1:O:118:GLY:HA2	1:O:449:TYR:CE1	2.55	0.42
1:O:543:GLN:HA	1:O:546:VAL:HG12	2.02	0.42
1:D:100:SER:HB2	1:P:322:ALA:HB3	2.02	0.42
1:P:397:ASN:HB2	1:P:399:GLU:N	2.35	0.42
1:N:94:ARG:NE	1:P:423:SER:O	28.92	0.42
1:P:112:LEU:HD11	1:P:482:LEU:HD23	2.01	0.42
1:Q:100:SER:HB2	1:S:322:ALA:HB3	100.86	0.42
1:Q:192:TYR:HD1	1:S:308:ILE:HG21	97.92	0.42
1:Q:397:ASN:N	1:Q:398:ASN:HA	2.34	0.42
1:Q:397:ASN:HB2	1:Q:399:GLU:N	2.35	0.42
1:R:311:TRP:CZ3	1:S:377:ALA:HB2	2.54	0.42
1:R:354:PRO:HA	1:R:373:ALA:HB3	2.01	0.42
1:R:397:ASN:HB2	1:R:399:GLU:N	2.35	0.42
1:R:43:ASN:HD22	1:R:200:PRO:HB3	1.84	0.42
1:R:516:MET:O	1:R:517:ILE:HD13	2.20	0.42
1:Q:94:ARG:NE	1:S:423:SER:O	103.01	0.42
1:T:322:ALA:HB3	1:3:100:SER:HB2	2.01	0.42
1:T:115:ASN:O	1:T:454:ILE:HD12	2.19	0.42
1:T:557:TYR:CZ	1:T:559:PRO:HG3	2.54	0.42
1:U:516:MET:O	1:U:517:ILE:HD13	2.20	0.42
1:U:533:LEU:HA	1:U:563:MET:HE1	2.01	0.42
1:V:250:MET:HB2	1:V:251:ILE:HG23	2.02	0.42
1:W:284:ARG:HD2	1:Z:346:GLY:CA	85.47	0.42
1:W:469:ALA:HB2	1:X:439:TYR:CZ	65.96	0.42
1:X:250:MET:HB2	1:X:251:ILE:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:333:TYR:CE2	1:X:335:TRP:CE3	3.06	0.42
1:X:449:TYR:CD1	1:X:450:PRO:HA	2.54	0.42
1:Y:109:TRP:O	1:Y:209:TYR:HB3	2.20	0.42
1:O:533:LEU:HA	1:O:563:MET:HE1	2.01	0.42
1:M:94:ARG:NE	1:1:423:SER:O	2.53	0.42
1:J:322:ALA:HB3	1:2:100:SER:HB2	127.60	0.42
1:2:118:GLY:HA2	1:2:449:TYR:CE1	2.55	0.42
1:3:134:ARG:O	1:3:276:LEU:N	2.32	0.42
1:3:112:LEU:HD11	1:3:482:LEU:HD23	2.01	0.42
1:4:354:PRO:HA	1:4:373:ALA:HB3	2.01	0.42
1:4:379:TYR:CE1	1:4:451:TRP:CE2	3.07	0.42
1:4:382:ASN:OD1	1:4:392:GLU:HG2	2.20	0.42
1:4:397:ASN:N	1:4:398:ASN:HA	2.34	0.42
1:4:543:GLN:HA	1:4:546:VAL:HG12	2.02	0.42
1:5:115:ASN:C	1:5:190:ASN:HD21	2.23	0.42
1:5:250:MET:HB2	1:5:251:ILE:HG23	2.02	0.42
1:5:333:TYR:CE2	1:5:335:TRP:CE3	3.06	0.42
1:5:65:HIS:CD2	1:5:205:LYS:HE2	2.53	0.42
1:6:533:LEU:HA	1:6:563:MET:HE1	2.02	0.42
1:7:557:TYR:CZ	1:7:559:PRO:HG3	2.54	0.42
1:A:381:TRP:O	1:A:381:TRP:CD1	2.73	0.42
1:A:533:LEU:HA	1:A:563:MET:HE1	2.01	0.42
1:A:349:ILE:HD13	1:B:324:THR:HG22	78.16	0.42
1:B:357:GLN:CB	1:B:362:SER:HB3	2.47	0.42
1:B:366:GLY:HA2	1:B:367:THR:HA	1.76	0.42
1:B:118:GLY:HA2	1:B:449:TYR:CE1	2.55	0.42
1:B:379:TYR:CE1	1:B:451:TRP:CE2	3.07	0.42
1:C:449:TYR:CD1	1:C:450:PRO:HA	2.54	0.42
1:D:192:TYR:HD1	1:P:308:ILE:HG21	1.83	0.42
1:D:58:CYS:SG	1:D:516:MET:HB2	2.59	0.42
1:C:423:SER:O	1:D:94:ARG:NE	103.00	0.42
1:E:139:SER:O	1:E:269:PHE:N	2.45	0.42
1:E:250:MET:HB2	1:E:251:ILE:HG23	2.02	0.42
1:E:371:GLN:HE22	1:F:415:SER:C	2.22	0.42
1:E:397:ASN:HB2	1:E:399:GLU:N	2.35	0.42
1:A:549:ALA:O	1:E:75:ARG:HD2	2.19	0.42
1:F:109:TRP:O	1:F:209:TYR:HB3	2.20	0.42
1:F:308:ILE:HA	1:F:309:ASN:CB	2.50	0.42
1:F:118:GLY:HA2	1:F:449:TYR:CE1	2.55	0.42
1:F:177:ALA:HB3	1:F:483:PHE:HB2	2.01	0.42
1:G:109:TRP:O	1:G:209:TYR:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:335:TRP:HD1	1:G:337:GLU:HB3	1.85	0.42
1:G:423:SER:O	1:H:94:ARG:NE	80.79	0.42
1:G:449:TYR:CD1	1:G:450:PRO:HA	2.54	0.42
1:G:118:GLY:HA2	1:G:449:TYR:CE1	2.55	0.42
1:H:335:TRP:HD1	1:H:337:GLU:HB3	1.85	0.42
1:H:397:ASN:N	1:H:398:ASN:HA	2.34	0.42
1:H:449:TYR:CD1	1:H:450:PRO:HA	2.54	0.42
1:I:322:ALA:HB3	1:J:100:SER:HB2	67.05	0.42
1:I:354:PRO:HA	1:I:373:ALA:HB3	2.02	0.42
1:I:449:TYR:CD1	1:I:450:PRO:HA	2.54	0.42
1:J:115:ASN:C	1:J:190:ASN:HD21	2.23	0.42
1:J:381:TRP:O	1:J:381:TRP:CD1	2.73	0.42
1:J:112:LEU:HD11	1:J:482:LEU:HD23	2.01	0.42
1:K:118:GLY:HA2	1:K:449:TYR:CE1	2.55	0.42
1:K:322:ALA:HB3	1:L:100:SER:HB2	67.05	0.42
1:K:382:ASN:OD1	1:K:392:GLU:HG2	2.19	0.42
1:K:133:CYS:HB2	1:K:520:ALA:HB1	2.01	0.42
1:L:109:TRP:O	1:L:209:TYR:HB3	2.20	0.42
1:L:115:ASN:C	1:L:190:ASN:HD21	2.23	0.42
1:L:118:GLY:HA2	1:L:449:TYR:CE1	2.55	0.42
1:M:335:TRP:HD1	1:M:337:GLU:HB3	1.85	0.42
1:M:109:TRP:HZ3	1:M:485:LYS:CB	2.27	0.42
1:O:115:ASN:O	1:O:454:ILE:HD12	2.19	0.42
1:P:263:GLU:HA	1:P:264:SER:HA	1.76	0.42
1:D:377:ALA:HB2	1:P:311:TRP:CZ3	2.54	0.42
1:P:318:ASN:HA	1:P:319:PRO:HA	1.81	0.42
1:F:377:ALA:HB2	1:Q:311:TRP:CZ3	2.54	0.42
1:R:225:ASP:HB2	1:R:226:ARG:CB	2.36	0.42
1:R:379:TYR:CE1	1:R:451:TRP:CE2	3.07	0.42
1:R:557:TYR:CZ	1:R:559:PRO:HG3	2.54	0.42
1:S:382:ASN:OD1	1:S:392:GLU:HG2	2.19	0.42
1:R:323:SER:HG	1:S:98:ASN:HA	1.81	0.42
1:V:109:TRP:O	1:V:209:TYR:HB3	2.20	0.42
1:V:335:TRP:HD1	1:V:337:GLU:HB3	1.85	0.42
1:V:491:THR:OG1	1:V:502:SER:O	2.30	0.42
1:V:516:MET:O	1:V:517:ILE:HD13	2.19	0.42
1:W:109:TRP:O	1:W:209:TYR:HB3	2.20	0.42
1:W:115:ASN:O	1:W:454:ILE:HD12	2.19	0.42
1:W:397:ASN:N	1:W:398:ASN:HA	2.34	0.42
1:W:431:SER:OG	1:W:433:HIS:CD2	2.68	0.42
1:W:109:TRP:HZ3	1:W:485:LYS:CB	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:559:PRO:HA	1:W:560:GLY:HA3	1.80	0.42
1:X:112:LEU:HD11	1:X:482:LEU:HD23	2.01	0.42
1:X:533:LEU:HA	1:X:563:MET:HE1	2.01	0.42
1:W:322:ALA:HB3	1:Y:100:SER:HB2	2.02	0.42
1:Y:335:TRP:HD1	1:Y:337:GLU:HB3	1.85	0.42
1:Y:379:TYR:CE1	1:Y:451:TRP:CE2	3.07	0.42
1:Y:543:GLN:HA	1:Y:546:VAL:HG12	2.02	0.42
1:Z:335:TRP:HD1	1:Z:337:GLU:HB3	1.85	0.42
1:Z:381:TRP:CD1	1:Z:381:TRP:O	2.73	0.42
1:Z:543:GLN:HA	1:Z:546:VAL:HG12	2.02	0.42
1:O:89:GLN:NE2	1:O:229:GLN:HB2	2.28	0.42
1:1:397:ASN:N	1:1:398:ASN:HA	2.34	0.42
1:1:523:ARG:O	1:1:523:ARG:HG3	2.18	0.42
1:I:75:ARG:HD2	1:1:549:ALA:O	166.23	0.42
1:2:308:ILE:HA	1:2:309:ASN:CB	2.50	0.42
1:2:58:CYS:SG	1:2:516:MET:HB2	2.59	0.42
1:3:381:TRP:CD1	1:3:381:TRP:O	2.73	0.42
1:4:112:LEU:HD11	1:4:482:LEU:HD23	2.01	0.42
1:5:118:GLY:HA2	1:5:449:TYR:CE1	2.55	0.42
1:5:177:ALA:HB3	1:5:483:PHE:HB2	2.01	0.42
1:5:58:CYS:SG	1:5:516:MET:HB2	2.59	0.42
1:Y:346:GLY:CA	1:6:284:ARG:HD2	180.60	0.42
1:6:109:TRP:HZ3	1:6:485:LYS:CB	2.27	0.42
1:7:115:ASN:C	1:7:190:ASN:HD21	2.23	0.42
1:7:381:TRP:O	1:7:381:TRP:CD1	2.73	0.42
1:7:390:MET:HA	1:7:391:ARG:HA	1.72	0.42
1:7:449:TYR:CD1	1:7:450:PRO:HA	2.54	0.42
1:7:58:CYS:SG	1:7:516:MET:HB2	2.59	0.42
1:A:118:GLY:HA2	1:A:449:TYR:CE1	2.55	0.42
1:A:528:TRP:HB2	1:G:246:PRO:HG2	1.94	0.42
1:B:109:TRP:O	1:B:209:TYR:HB3	2.20	0.42
1:B:112:LEU:HD11	1:B:482:LEU:HD23	2.01	0.42
1:C:115:ASN:O	1:C:454:ILE:HD12	2.19	0.42
1:C:322:ALA:HB3	1:1:100:SER:HB2	2.02	0.42
1:C:322:ALA:HB3	1:D:100:SER:HB2	100.86	0.42
1:D:516:MET:O	1:D:517:ILE:HD13	2.20	0.42
1:E:177:ALA:HB3	1:E:483:PHE:HB2	2.01	0.42
1:F:115:ASN:O	1:F:454:ILE:HD12	2.19	0.42
1:E:346:GLY:CA	1:F:284:ARG:HD2	2.44	0.42
1:G:43:ASN:HD22	1:G:200:PRO:HB3	1.84	0.42
1:G:516:MET:O	1:G:517:ILE:HD13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:107:THR:OG1	1:H:108:PRO:HD2	2.20	0.42
1:H:250:MET:HB2	1:H:251:ILE:HG23	2.02	0.42
1:H:333:TYR:CE2	1:H:335:TRP:CE3	3.06	0.42
1:H:381:TRP:CD1	1:H:381:TRP:O	2.73	0.42
1:H:423:SER:O	1:O:94:ARG:NE	235.76	0.42
1:I:335:TRP:HD1	1:I:337:GLU:HB3	1.85	0.42
1:I:381:TRP:CD1	1:I:381:TRP:O	2.73	0.42
1:J:250:MET:HB2	1:J:251:ILE:HG23	2.02	0.42
1:J:374:THR:OG1	1:J:396:GLN:O	2.34	0.42
1:J:543:GLN:HA	1:J:546:VAL:HG12	2.02	0.42
1:K:335:TRP:HD1	1:K:337:GLU:HB3	1.85	0.42
1:K:112:LEU:HD11	1:K:482:LEU:HD23	2.01	0.42
1:K:68:MET:SD	1:K:503:ARG:NE	2.92	0.42
1:K:94:ARG:NE	1:M:423:SER:O	139.84	0.42
1:L:284:ARG:HD2	1:M:346:GLY:CA	89.58	0.42
1:L:354:PRO:HA	1:L:373:ALA:HB3	2.01	0.42
1:L:397:ASN:HB2	1:L:399:GLU:N	2.35	0.42
1:L:423:SER:O	1:M:94:ARG:NE	107.87	0.42
1:L:449:TYR:CD1	1:L:450:PRO:HA	2.54	0.42
1:M:250:MET:HB2	1:M:251:ILE:HG23	2.02	0.42
1:M:449:TYR:CD1	1:M:450:PRO:HA	2.54	0.42
1:O:284:ARG:HD2	1:P:346:GLY:CA	59.81	0.42
1:N:311:TRP:CZ3	1:O:377:ALA:HB2	56.30	0.42
1:O:533:LEU:HA	1:O:563:MET:HE1	2.03	0.42
1:P:43:ASN:HD22	1:P:200:PRO:HB3	1.84	0.42
1:P:109:TRP:O	1:P:209:TYR:HB3	2.20	0.42
1:N:311:TRP:CZ3	1:P:377:ALA:HB2	2.54	0.42
1:Q:423:SER:O	1:R:94:ARG:NE	80.79	0.42
1:R:118:GLY:HA2	1:R:449:TYR:CE1	2.55	0.42
1:R:382:ASN:OD1	1:R:392:GLU:HG2	2.19	0.42
1:R:397:ASN:N	1:R:398:ASN:HA	2.34	0.42
1:S:115:ASN:C	1:S:190:ASN:HD21	2.23	0.42
1:S:109:TRP:O	1:S:209:TYR:HB3	2.19	0.42
1:Q:377:ALA:HB2	1:S:311:TRP:CZ3	83.97	0.42
1:S:334:SER:HG	1:S:435:THR:CB	3.10	0.42
1:S:381:TRP:O	1:S:381:TRP:CD1	2.73	0.42
1:T:335:TRP:HD1	1:T:337:GLU:HB3	1.85	0.42
1:T:354:PRO:HA	1:T:373:ALA:HB3	2.02	0.42
1:T:381:TRP:O	1:T:381:TRP:CD1	2.73	0.42
1:U:115:ASN:C	1:U:190:ASN:HD21	2.23	0.42
1:U:109:TRP:O	1:U:209:TYR:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:250:MET:HB2	1:U:251:ILE:HG23	2.02	0.42
1:U:381:TRP:O	1:U:381:TRP:CD1	2.73	0.42
1:U:177:ALA:HB3	1:U:483:PHE:HB2	2.01	0.42
1:V:115:ASN:C	1:V:190:ASN:HD21	2.23	0.42
1:V:381:TRP:CD1	1:V:381:TRP:O	2.73	0.42
1:V:58:CYS:SG	1:V:516:MET:HB2	2.59	0.42
1:W:250:MET:HB2	1:W:251:ILE:HG23	2.01	0.42
1:W:322:ALA:HB3	1:Z:100:SER:HB2	80.63	0.42
1:W:397:ASN:HB2	1:W:399:GLU:N	2.35	0.42
1:W:68:MET:CA	1:W:69:SER:HB3	2.48	0.42
1:G:549:ALA:O	1:W:75:ARG:HD2	2.18	0.42
1:Y:333:TYR:CE2	1:Y:335:TRP:CE3	3.06	0.42
1:Y:381:TRP:CD1	1:Y:381:TRP:O	2.73	0.42
1:Y:374:THR:OG1	1:Y:396:GLN:O	2.34	0.42
1:Z:354:PRO:HA	1:Z:373:ALA:HB3	2.01	0.42
1:Z:177:ALA:HB3	1:Z:483:PHE:HB2	2.01	0.42
1:Z:75:ARG:HD2	1:0:549:ALA:O	2.18	0.42
1:0:112:LEU:HD11	1:0:482:LEU:HD23	2.01	0.42
1:0:284:ARG:HD2	1:7:346:GLY:CA	2.44	0.42
1:0:381:TRP:CD1	1:0:381:TRP:O	2.73	0.42
1:1:449:TYR:CD1	1:1:450:PRO:HA	2.54	0.42
1:1:58:CYS:SG	1:1:516:MET:HB2	2.59	0.42
1:2:431:SER:OG	1:2:433:HIS:CD2	2.68	0.42
1:3:397:ASN:HB2	1:3:399:GLU:N	2.35	0.42
1:4:250:MET:HB2	1:4:251:ILE:HG23	2.01	0.42
1:X:346:GLY:CA	1:4:284:ARG:HD2	2.44	0.42
1:4:397:ASN:HB2	1:4:399:GLU:N	2.35	0.42
1:5:374:THR:OG1	1:5:396:GLN:O	2.34	0.42
1:5:379:TYR:CE1	1:5:451:TRP:CE2	3.07	0.42
1:6:115:ASN:C	1:6:190:ASN:HD21	2.23	0.42
1:6:112:LEU:HD11	1:6:482:LEU:HD23	2.01	0.42
1:7:109:TRP:O	1:7:209:TYR:HB3	2.20	0.42
1:7:139:SER:O	1:7:269:PHE:N	2.45	0.42
1:7:543:GLN:HA	1:7:546:VAL:HG12	2.02	0.42
1:A:109:TRP:O	1:A:209:TYR:HB3	2.20	0.42
1:A:250:MET:HB2	1:A:251:ILE:HG23	2.02	0.42
1:A:391:ARG:HH12	1:B:307:ASN:C	89.04	0.42
1:A:397:ASN:HB2	1:A:399:GLU:N	2.35	0.42
1:B:354:PRO:HA	1:B:373:ALA:HB3	2.01	0.42
1:B:381:TRP:O	1:B:381:TRP:CD1	2.73	0.42
1:B:382:ASN:OD1	1:B:392:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:391:ARG:HH12	1:5:307:ASN:C	224.60	0.42
1:B:423:SER:O	1:J:94:ARG:NE	2.53	0.42
1:C:107:THR:OG1	1:C:108:PRO:HD2	2.20	0.42
1:C:311:TRP:CZ3	1:D:377:ALA:HB2	83.97	0.42
1:C:561:ARG:HA	1:C:561:ARG:HD3	1.88	0.42
1:D:333:TYR:CE2	1:D:335:TRP:CE3	3.06	0.42
1:D:423:SER:O	1:N:94:ARG:NE	2.53	0.42
1:E:107:THR:OG1	1:E:108:PRO:HD2	2.20	0.42
1:E:109:TRP:O	1:E:209:TYR:HB3	2.20	0.42
1:E:379:TYR:CE1	1:E:451:TRP:CE2	3.07	0.42
1:F:100:SER:HB2	1:3:322:ALA:HB3	156.33	0.42
1:F:263:GLU:HA	1:F:264:SER:HA	1.76	0.42
1:F:533:LEU:HA	1:F:563:MET:HE1	2.02	0.42
1:G:250:MET:HB2	1:G:251:ILE:HG23	2.01	0.42
1:G:263:GLU:HA	1:G:264:SER:HA	1.76	0.42
1:J:118:GLY:HA2	1:J:449:TYR:CE1	2.55	0.42
1:J:322:ALA:HB3	1:L:100:SER:HB2	2.02	0.42
1:J:354:PRO:HA	1:J:373:ALA:HB3	2.01	0.42
1:J:379:TYR:CE1	1:J:451:TRP:CE2	3.07	0.42
1:K:250:MET:HB2	1:K:251:ILE:HG23	2.02	0.42
1:K:308:ILE:HA	1:K:309:ASN:CB	2.50	0.42
1:K:357:GLN:CB	1:K:362:SER:HB3	2.48	0.42
1:L:308:ILE:HG21	1:M:192:TYR:HD1	100.31	0.42
1:L:308:ILE:HA	1:L:309:ASN:CB	2.50	0.42
1:B:100:SER:HB2	1:L:322:ALA:HB3	2.02	0.42
1:L:382:ASN:OD1	1:L:392:GLU:HG2	2.19	0.42
1:L:43:ASN:HD22	1:L:200:PRO:HB3	1.84	0.42
1:M:107:THR:OG1	1:M:108:PRO:HD2	2.20	0.42
1:M:118:GLY:HA2	1:M:449:TYR:CE1	2.55	0.42
1:M:377:ALA:HB2	1:I:311:TRP:CZ3	2.54	0.42
1:M:543:GLN:HA	1:M:546:VAL:HG12	2.02	0.42
1:N:245:THR:HA	1:N:246:PRO:HD2	1.50	0.42
1:O:335:TRP:HD1	1:O:337:GLU:HB3	1.85	0.42
1:O:382:ASN:OD1	1:O:392:GLU:HG2	2.20	0.42
1:O:397:ASN:HB2	1:O:399:GLU:N	2.35	0.42
1:P:335:TRP:HD1	1:P:337:GLU:HB3	1.85	0.42
1:P:561:ARG:HA	1:P:561:ARG:HD3	1.88	0.42
1:Q:112:LEU:HD11	1:Q:482:LEU:HD23	2.01	0.42
1:Q:250:MET:HB2	1:Q:251:ILE:HG23	2.01	0.42
1:Q:308:ILE:HA	1:Q:309:ASN:CB	2.50	0.42
1:Q:381:TRP:O	1:Q:381:TRP:CD1	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:118:GLY:HA2	1:Q:449:TYR:CE1	2.55	0.42
1:Q:68:MET:CA	1:Q:69:SER:HB3	2.48	0.42
1:R:333:TYR:CE2	1:R:335:TRP:CE3	3.06	0.42
1:R:335:TRP:HD1	1:R:337:GLU:HB3	1.85	0.42
1:S:308:ILE:HA	1:S:309:ASN:CB	2.50	0.42
1:S:335:TRP:HD1	1:S:337:GLU:HB3	1.85	0.42
1:S:354:PRO:HA	1:S:373:ALA:HB3	2.01	0.42
1:S:118:GLY:HA2	1:S:449:TYR:CE1	2.55	0.42
1:T:177:ALA:HB3	1:T:483:PHE:HB2	2.01	0.42
1:T:511:TRP:HE1	1:U:173:LEU:CD1	2.29	0.42
1:U:382:ASN:OD1	1:U:392:GLU:HG2	2.19	0.42
1:U:397:ASN:HB2	1:U:399:GLU:N	2.35	0.42
1:V:449:TYR:CD1	1:V:450:PRO:HA	2.54	0.42
1:W:382:ASN:OD1	1:W:392:GLU:HG2	2.20	0.42
1:W:449:TYR:CD1	1:W:450:PRO:HA	2.54	0.42
1:X:381:TRP:CD1	1:X:381:TRP:O	2.73	0.42
1:Z:109:TRP:NE1	1:Z:247:LEU:CD2	2.82	0.42
1:Z:115:ASN:C	1:Z:190:ASN:HD21	2.23	0.42
1:Z:559:PRO:HA	1:Z:560:GLY:HA3	1.80	0.42
1:0:134:ARG:O	1:0:276:LEU:N	2.32	0.42
1:0:449:TYR:CD1	1:0:450:PRO:HA	2.54	0.42
1:1:118:GLY:HA2	1:1:449:TYR:CE1	2.55	0.42
1:2:115:ASN:C	1:2:190:ASN:HD21	2.23	0.42
1:2:397:ASN:N	1:2:398:ASN:HA	2.34	0.42
1:3:390:MET:HA	1:3:391:ARG:HA	1.72	0.42
1:3:43:ASN:HD22	1:3:200:PRO:HB3	1.84	0.42
1:3:58:CYS:SG	1:3:516:MET:HB2	2.59	0.42
1:4:225:ASP:HB2	1:4:226:ARG:CB	2.36	0.42
1:4:308:ILE:HA	1:4:309:ASN:CB	2.50	0.42
1:4:557:TYR:CZ	1:4:559:PRO:HG3	2.54	0.42
1:4:68:MET:SD	1:4:503:ARG:NE	2.92	0.42
1:5:109:TRP:NE1	1:5:247:LEU:CD2	2.82	0.42
1:5:354:PRO:HA	1:5:373:ALA:HB3	2.02	0.42
1:5:516:MET:O	1:5:517:ILE:HD13	2.20	0.42
1:6:379:TYR:CE1	1:6:451:TRP:CE2	3.07	0.42
1:0:322:ALA:HB3	1:7:100:SER:HB2	2.02	0.42
1:K:100:SER:HB2	1:7:322:ALA:HB3	2.02	0.42
1:7:354:PRO:HA	1:7:373:ALA:HB3	2.02	0.42
1:K:94:ARG:NE	1:7:423:SER:O	2.53	0.42
1:A:115:ASN:C	1:A:190:ASN:HD21	2.23	0.42
1:A:192:TYR:HD1	1:I:308:ILE:HG21	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:308:ILE:HG21	1:G:192:TYR:HD1	1.85	0.42
1:B:397:ASN:HB2	1:B:399:GLU:N	2.35	0.42
1:C:100:SER:HB2	1:M:322:ALA:HB3	2.02	0.42
1:C:118:GLY:HA2	1:C:449:TYR:CE1	2.55	0.42
1:C:109:TRP:O	1:C:209:TYR:HB3	2.20	0.42
1:C:284:ARG:HD2	1:D:346:GLY:CA	100.70	0.42
1:C:377:ALA:HB2	1:E:311:TRP:CZ3	130.58	0.42
1:C:549:ALA:O	1:T:75:ARG:HD2	216.05	0.42
1:D:308:ILE:HA	1:D:309:ASN:CB	2.50	0.42
1:E:115:ASN:C	1:E:190:ASN:HD21	2.23	0.42
1:E:516:MET:O	1:E:517:ILE:HD13	2.20	0.42
1:F:335:TRP:HD1	1:F:337:GLU:HB3	1.85	0.42
1:F:449:TYR:CD1	1:F:450:PRO:HA	2.54	0.42
1:F:543:GLN:HA	1:F:546:VAL:HG12	2.02	0.42
1:G:308:ILE:HA	1:G:309:ASN:CB	2.50	0.42
1:G:322:ALA:HB3	1:I:100:SER:HB2	2.02	0.42
1:G:366:GLY:HA2	1:G:367:THR:HA	1.76	0.42
1:H:118:GLY:HA2	1:H:449:TYR:CE1	2.55	0.42
1:I:397:ASN:HB2	1:I:399:GLU:N	2.35	0.42
1:I:511:TRP:HE1	1:6:173:LEU:CD1	113.80	0.42
1:I:133:CYS:HB2	1:I:520:ALA:HB1	2.01	0.42
1:J:335:TRP:HD1	1:J:337:GLU:HB3	1.85	0.42
1:J:397:ASN:HB2	1:J:399:GLU:N	2.35	0.42
1:J:533:LEU:HA	1:J:563:MET:HE1	2.02	0.42
1:K:246:PRO:CG	1:M:528:TRP:CB	130.32	0.42
1:K:311:TRP:CZ3	1:L:377:ALA:HB2	91.36	0.42
1:K:397:ASN:HB2	1:K:399:GLU:N	2.35	0.42
1:K:516:MET:O	1:K:517:ILE:HD13	2.20	0.42
1:L:68:MET:CA	1:L:69:SER:HB3	2.48	0.42
1:N:250:MET:HB2	1:N:251:ILE:HG23	2.02	0.42
1:N:333:TYR:CE2	1:N:335:TRP:CE3	3.06	0.42
1:N:381:TRP:CD1	1:N:381:TRP:O	2.73	0.42
1:N:397:ASN:N	1:N:398:ASN:HA	2.34	0.42
1:N:423:SER:O	1:O:94:ARG:NE	80.79	0.42
1:N:533:LEU:HA	1:N:563:MET:HE1	2.02	0.42
1:P:118:GLY:HA2	1:P:449:TYR:CE1	2.55	0.42
1:P:334:SER:HG	1:P:435:THR:CB	2.26	0.42
1:P:381:TRP:CD1	1:P:381:TRP:O	2.73	0.42
1:P:133:CYS:HB2	1:P:520:ALA:HB1	2.01	0.42
1:F:94:ARG:NE	1:Q:423:SER:O	2.53	0.42
1:R:491:THR:OG1	1:R:502:SER:O	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:543:GLN:HA	1:R:546:VAL:HG12	2.02	0.42
1:S:559:PRO:HA	1:S:560:GLY:HA3	1.80	0.42
1:T:100:SER:HB2	1:V:322:ALA:HB3	91.28	0.42
1:T:133:CYS:HB2	1:T:520:ALA:HB1	2.01	0.42
1:T:397:ASN:HB2	1:T:399:GLU:N	2.35	0.42
1:F:423:SER:O	1:T:94:ARG:NE	165.37	0.42
1:R:346:GLY:CA	1:U:284:ARG:HD2	2.44	0.42
1:U:308:ILE:HA	1:U:309:ASN:CB	2.50	0.42
1:U:335:TRP:HD1	1:U:337:GLU:HB3	1.85	0.42
1:U:118:GLY:HA2	1:U:449:TYR:CE1	2.55	0.42
1:U:511:TRP:HE1	1:4:173:LEU:CD1	2.29	0.42
1:V:423:SER:O	1:4:94:ARG:NE	2.53	0.42
1:V:543:GLN:HA	1:V:546:VAL:HG12	2.02	0.42
1:W:107:THR:OG1	1:W:108:PRO:HD2	2.20	0.42
1:W:543:GLN:HA	1:W:546:VAL:HG12	2.02	0.42
1:V:549:ALA:O	1:W:75:ARG:HD2	69.46	0.42
1:Y:146:GLU:HA	1:Y:147:ASN:HA	1.79	0.42
1:Y:284:ARG:HD2	1:Z:346:GLY:CA	63.80	0.42
1:Y:491:THR:OG1	1:Y:502:SER:O	2.30	0.42
1:Y:68:MET:SD	1:Y:503:ARG:NE	2.92	0.42
1:Z:118:GLY:HA2	1:Z:449:TYR:CE1	2.55	0.42
1:Z:308:ILE:HA	1:Z:309:ASN:CB	2.50	0.42
1:Z:379:TYR:CE1	1:Z:451:TRP:CE2	3.07	0.42
1:Z:374:THR:OG1	1:Z:396:GLN:O	2.34	0.42
1:0:109:TRP:O	1:0:209:TYR:HB3	2.20	0.42
1:2:357:GLN:CB	1:2:362:SER:HB3	2.48	0.42
1:2:133:CYS:HB2	1:2:520:ALA:HB1	2.01	0.42
1:3:543:GLN:HA	1:3:546:VAL:HG12	2.02	0.42
1:4:263:GLU:HA	1:4:264:SER:HA	1.76	0.42
1:4:516:MET:O	1:4:517:ILE:HD13	2.20	0.42
1:5:109:TRP:O	1:5:209:TYR:HB3	2.20	0.42
1:5:397:ASN:HB2	1:5:399:GLU:N	2.35	0.42
1:5:133:CYS:HB2	1:5:520:ALA:HB1	2.01	0.42
1:6:250:MET:HB2	1:6:251:ILE:HG23	2.02	0.42
1:6:335:TRP:HD1	1:6:337:GLU:HB3	1.85	0.42
1:6:382:ASN:OD1	1:6:392:GLU:HG2	2.20	0.42
1:7:382:ASN:OD1	1:7:392:GLU:HG2	2.20	0.42
1:7:118:GLY:HA2	1:7:449:TYR:CE1	2.55	0.42
1:7:177:ALA:HB3	1:7:483:PHE:HB2	2.01	0.42
1:A:107:THR:OG1	1:A:108:PRO:HD2	2.20	0.42
1:A:308:ILE:HA	1:A:309:ASN:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:133:CYS:HB2	1:A:520:ALA:HB1	2.01	0.42
1:A:543:GLN:HA	1:A:546:VAL:HG12	2.02	0.42
1:A:68:MET:CA	1:A:69:SER:HB3	2.48	0.42
1:B:250:MET:HB2	1:B:251:ILE:HG23	2.02	0.42
1:B:449:TYR:CD1	1:B:450:PRO:HA	2.54	0.42
1:B:559:PRO:HA	1:B:560:GLY:HA3	1.80	0.42
1:C:318:ASN:HA	1:C:319:PRO:HA	1.81	0.42
1:C:377:ALA:HB2	1:M:311:TRP:CZ3	2.54	0.42
1:C:397:ASN:HB2	1:C:399:GLU:N	2.35	0.42
1:C:112:LEU:HD11	1:C:482:LEU:HD23	2.01	0.42
1:D:250:MET:HB2	1:D:251:ILE:HG23	2.02	0.42
1:D:311:TRP:CZ3	1:E:377:ALA:HB2	83.97	0.42
1:D:118:GLY:HA2	1:D:449:TYR:CE1	2.55	0.42
1:E:109:TRP:NE1	1:E:247:LEU:CD2	2.82	0.42
1:A:37:SER:CA	1:E:257:ARG:HG2	2.33	0.42
1:F:115:ASN:C	1:F:190:ASN:HD21	2.23	0.42
1:F:357:GLN:CB	1:F:362:SER:HB3	2.48	0.42
1:G:107:THR:OG1	1:G:108:PRO:HD2	2.20	0.42
1:G:381:TRP:CD1	1:G:381:TRP:O	2.73	0.42
1:H:308:ILE:HA	1:H:309:ASN:CB	2.50	0.42
1:H:68:MET:CA	1:H:69:SER:HB3	2.48	0.42
1:I:139:SER:O	1:I:269:PHE:N	2.45	0.42
1:J:109:TRP:O	1:J:209:TYR:HB3	2.20	0.42
1:J:43:ASN:HD22	1:J:200:PRO:HB3	1.84	0.42
1:J:516:MET:O	1:J:517:ILE:HD13	2.20	0.42
1:L:335:TRP:HD1	1:L:337:GLU:HB3	1.85	0.42
1:M:109:TRP:NE1	1:M:247:LEU:CD2	2.82	0.42
1:M:333:TYR:CE2	1:M:335:TRP:CE3	3.06	0.42
1:M:381:TRP:O	1:M:381:TRP:CD1	2.73	0.42
1:N:322:ALA:HB3	1:O:100:SER:HB2	56.86	0.42
1:N:68:MET:CA	1:N:69:SER:HB3	2.48	0.42
1:O:235:LYS:HA	1:O:236:GLY:HA2	1.90	0.42
1:O:308:ILE:HA	1:O:309:ASN:CB	2.50	0.42
1:O:516:MET:O	1:O:517:ILE:HD13	2.20	0.42
1:O:84:LEU:HD23	1:O:84:LEU:HA	1.90	0.42
1:P:47:PHE:O	1:P:48:ILE:HD13	2.20	0.42
1:P:533:LEU:HA	1:P:563:MET:HE1	2.02	0.42
1:Q:333:TYR:CE2	1:Q:335:TRP:CE3	3.06	0.42
1:R:381:TRP:CD1	1:R:381:TRP:O	2.73	0.42
1:S:357:GLN:CB	1:S:362:SER:HB3	2.48	0.42
1:S:43:ASN:HD22	1:S:200:PRO:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:543:GLN:HA	1:S:546:VAL:HG12	2.02	0.42
1:S:68:MET:CA	1:S:69:SER:HB3	2.48	0.42
1:T:308:ILE:HA	1:T:309:ASN:CB	2.50	0.42
1:U:423:SER:O	1:V:94:ARG:NE	80.78	0.42
1:V:100:SER:HB2	1:X:322:ALA:HB3	2.02	0.42
1:V:107:THR:OG1	1:V:108:PRO:HD2	2.20	0.42
1:V:322:ALA:HB3	1:4:100:SER:HB2	2.02	0.42
1:V:118:GLY:HA2	1:V:449:TYR:CE1	2.55	0.42
1:X:109:TRP:O	1:X:209:TYR:HB3	2.20	0.42
1:V:346:GLY:CA	1:X:284:ARG:HD2	2.44	0.42
1:X:308:ILE:HA	1:X:309:ASN:CB	2.50	0.42
1:Y:354:PRO:HA	1:Y:373:ALA:HB3	2.02	0.42
1:X:549:ALA:O	1:Y:75:ARG:HD2	2.18	0.42
1:Z:68:MET:SD	1:Z:503:ARG:NE	2.92	0.42
1:K:322:ALA:HB3	1:0:100:SER:HB2	2.01	0.42
1:0:418:ASN:OD1	1:0:419:ASP:N	2.53	0.42
1:0:423:SER:O	1:7:94:ARG:NE	2.52	0.42
1:1:112:LEU:HD11	1:1:482:LEU:HD23	2.01	0.42
1:1:115:ASN:O	1:1:454:ILE:HD12	2.19	0.42
1:M:346:GLY:CA	1:1:284:ARG:HD2	2.44	0.42
1:1:382:ASN:OD1	1:1:392:GLU:HG2	2.19	0.42
1:1:397:ASN:HB2	1:1:399:GLU:N	2.35	0.42
1:1:418:ASN:OD1	1:1:419:ASP:N	2.53	0.42
1:1:47:PHE:O	1:1:48:ILE:HD13	2.20	0.42
1:2:335:TRP:HD1	1:2:337:GLU:HB3	1.85	0.42
1:2:449:TYR:CD1	1:2:450:PRO:HA	2.54	0.42
1:2:543:GLN:HA	1:2:546:VAL:HG12	2.02	0.42
1:3:109:TRP:NE1	1:3:247:LEU:CD2	2.82	0.42
1:O:257:ARG:N	1:3:37:SER:HG	2.10	0.42
1:3:115:ASN:O	1:3:454:ILE:HD12	2.19	0.42
1:4:107:THR:OG1	1:4:108:PRO:HD2	2.20	0.42
1:5:335:TRP:HD1	1:5:337:GLU:HB3	1.85	0.42
1:5:382:ASN:OD1	1:5:392:GLU:HG2	2.20	0.42
1:5:43:ASN:HD22	1:5:200:PRO:HB3	1.84	0.42
1:5:533:LEU:HA	1:5:563:MET:HE1	2.02	0.42
1:6:308:ILE:HA	1:6:309:ASN:CB	2.50	0.42
1:6:354:PRO:HA	1:6:373:ALA:HB3	2.01	0.42
1:K:173:LEU:CD1	1:6:511:TRP:HE1	2.29	0.42
1:7:107:THR:OG1	1:7:108:PRO:HD2	2.20	0.42
1:7:308:ILE:HA	1:7:309:ASN:CB	2.50	0.42
1:7:335:TRP:HD1	1:7:337:GLU:HB3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:47:PHE:O	1:7:48:ILE:HD13	2.20	0.42
1:7:516:MET:O	1:7:517:ILE:HD13	2.20	0.42
1:A:333:TYR:CE2	1:A:335:TRP:CE3	3.06	0.42
1:A:366:GLY:HA2	1:A:367:THR:HA	1.76	0.42
1:A:418:ASN:OD1	1:A:419:ASP:N	2.53	0.42
1:B:107:THR:OG1	1:B:108:PRO:HD2	2.20	0.42
1:B:308:ILE:HA	1:B:309:ASN:CB	2.50	0.42
1:B:333:TYR:CE2	1:B:335:TRP:CE3	3.06	0.42
1:B:335:TRP:HD1	1:B:337:GLU:HB3	1.85	0.42
1:B:557:TYR:CZ	1:B:559:PRO:HG3	2.54	0.42
1:C:115:ASN:C	1:C:190:ASN:HD21	2.23	0.42
1:C:382:ASN:OD1	1:C:392:GLU:HG2	2.19	0.42
1:C:418:ASN:OD1	1:C:419:ASP:N	2.53	0.42
1:D:107:THR:OG1	1:D:108:PRO:HD2	2.20	0.42
1:D:322:ALA:HB3	1:E:100:SER:HB2	100.86	0.42
1:D:381:TRP:CD1	1:D:381:TRP:O	2.73	0.42
1:E:118:GLY:HA2	1:E:449:TYR:CE1	2.55	0.42
1:E:381:TRP:O	1:E:381:TRP:CD1	2.73	0.42
1:E:47:PHE:O	1:E:48:ILE:HD13	2.20	0.42
1:F:100:SER:HB2	1:Q:322:ALA:HB3	2.02	0.42
1:F:311:TRP:CZ3	1:T:377:ALA:HB2	137.35	0.42
1:F:112:LEU:HD11	1:F:482:LEU:HD23	2.01	0.42
1:F:561:ARG:HA	1:F:561:ARG:HD3	1.88	0.42
1:F:71:MET:HB2	1:F:75:ARG:HH22	1.85	0.42
1:G:115:ASN:C	1:G:190:ASN:HD21	2.23	0.42
1:G:71:MET:HB2	1:G:75:ARG:HH22	1.85	0.42
1:H:109:TRP:O	1:H:209:TYR:HB3	2.20	0.42
1:A:102:HIS:NE2	1:I:290:HIS:HB3	2.35	0.42
1:I:366:GLY:HA2	1:I:367:THR:HA	1.76	0.42
1:A:340:ILE:N	1:I:412:ALA:O	2.53	0.42
1:I:423:SER:O	1:J:94:ARG:NE	90.07	0.42
1:I:177:ALA:HB3	1:I:483:PHE:HB2	2.01	0.42
1:I:94:ARG:NE	1:2:423:SER:O	208.14	0.42
1:J:109:TRP:NE1	1:J:247:LEU:CD2	2.82	0.42
1:J:308:ILE:HA	1:J:309:ASN:CB	2.50	0.42
1:J:37:SER:HG	1:K:257:ARG:N	78.78	0.42
1:K:316:ARG:HH22	1:0:98:ASN:ND2	2.18	0.42
1:L:381:TRP:CD1	1:L:381:TRP:O	2.73	0.42
1:L:559:PRO:HA	1:L:560:GLY:HA3	1.80	0.42
1:M:100:SER:HB2	1:1:322:ALA:HB3	2.02	0.42
1:M:366:GLY:HA2	1:M:367:THR:HA	1.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:354:PRO:HA	1:M:373:ALA:HB3	2.01	0.42
1:N:308:ILE:HA	1:N:309:ASN:CB	2.50	0.42
1:O:107:THR:OG1	1:O:108:PRO:HD2	2.20	0.42
1:G:377:ALA:HB2	1:O:311:TRP:CZ3	193.88	0.42
1:O:357:GLN:CB	1:O:362:SER:HB3	2.48	0.42
1:O:112:LEU:HD11	1:O:482:LEU:HD23	2.01	0.42
1:P:115:ASN:C	1:P:190:ASN:HD21	2.23	0.42
1:P:308:ILE:HA	1:P:309:ASN:CB	2.50	0.42
1:P:379:TYR:CE1	1:P:451:TRP:CE2	3.07	0.42
1:R:225:ASP:CB	1:R:226:ARG:HB2	2.39	0.42
1:S:333:TYR:CE2	1:S:335:TRP:CE3	3.06	0.42
1:S:374:THR:OG1	1:S:396:GLN:O	2.34	0.42
1:S:397:ASN:HB2	1:S:399:GLU:N	2.35	0.42
1:S:533:LEU:HA	1:S:563:MET:HE1	2.02	0.42
1:T:412:ALA:O	1:U:340:ILE:N	77.67	0.42
1:T:47:PHE:O	1:T:48:ILE:HD13	2.20	0.42
1:U:107:THR:OG1	1:U:108:PRO:HD2	2.20	0.42
1:U:354:PRO:HA	1:U:373:ALA:HB3	2.01	0.42
1:U:418:ASN:OD1	1:U:419:ASP:N	2.53	0.42
1:V:366:GLY:HA2	1:V:367:THR:HA	1.76	0.42
1:V:382:ASN:OD1	1:V:392:GLU:HG2	2.20	0.42
1:V:43:ASN:HD22	1:V:200:PRO:HB3	1.84	0.42
1:V:47:PHE:O	1:V:48:ILE:HD13	2.20	0.42
1:W:284:ARG:HD2	1:Y:346:GLY:CA	2.44	0.42
1:W:379:TYR:CE1	1:W:451:TRP:CE2	3.07	0.42
1:W:100:SER:HB2	1:X:322:ALA:HB3	56.86	0.42
1:X:418:ASN:OD1	1:X:419:ASP:N	2.53	0.42
1:V:94:ARG:NE	1:X:423:SER:O	2.52	0.42
1:X:71:MET:HB2	1:X:75:ARG:HH22	1.85	0.42
1:Y:397:ASN:N	1:Y:398:ASN:HA	2.34	0.42
1:Z:250:MET:HB2	1:Z:251:ILE:HG23	2.02	0.42
1:Z:397:ASN:HB2	1:Z:399:GLU:N	2.35	0.42
1:Z:71:MET:HB2	1:Z:75:ARG:HH22	1.85	0.42
1:W:423:SER:O	1:Z:94:ARG:NE	78.16	0.42
1:O:308:ILE:HA	1:O:309:ASN:CB	2.50	0.41
1:O:118:GLY:HA2	1:O:449:TYR:CE1	2.55	0.41
1:1:107:THR:OG1	1:1:108:PRO:HD2	2.20	0.41
1:C:311:TRP:CZ3	1:1:377:ALA:HB2	2.54	0.41
1:1:381:TRP:O	1:1:381:TRP:CD1	2.73	0.41
1:2:112:LEU:HD11	1:2:482:LEU:HD23	2.01	0.41
1:I:377:ALA:HB2	1:2:311:TRP:CZ3	162.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:533:LEU:HA	1:2:563:MET:HE1	2.02	0.41
1:3:115:ASN:C	1:3:190:ASN:HD21	2.23	0.41
1:3:118:GLY:HA2	1:3:449:TYR:CE1	2.55	0.41
1:3:379:TYR:CE1	1:3:451:TRP:CE2	3.07	0.41
1:4:109:TRP:O	1:4:209:TYR:HB3	2.20	0.41
1:X:100:SER:HB2	1:4:322:ALA:HB3	2.02	0.41
1:4:381:TRP:CD1	1:4:381:TRP:O	2.73	0.41
1:4:133:CYS:HB2	1:4:520:ALA:HB1	2.01	0.41
1:A:429:ARG:CG	1:5:221:ILE:HG22	204.47	0.41
1:5:308:ILE:HA	1:5:309:ASN:CB	2.50	0.41
1:5:431:SER:OG	1:5:433:HIS:CD2	2.68	0.41
1:6:109:TRP:O	1:6:209:TYR:HB3	2.20	0.41
1:6:118:GLY:HA2	1:6:449:TYR:CE1	2.55	0.41
1:7:43:ASN:HD22	1:7:200:PRO:HB3	1.84	0.41
1:7:133:CYS:HB2	1:7:520:ALA:HB1	2.01	0.41
1:A:423:SER:O	1:G:94:ARG:NE	2.53	0.41
1:A:75:ARG:HD2	1:B:549:ALA:O	2.20	0.41
1:C:308:ILE:HA	1:C:309:ASN:CB	2.50	0.41
1:C:381:TRP:CD1	1:C:381:TRP:O	2.73	0.41
1:C:439:TYR:CE1	1:D:469:ALA:CB	76.69	0.41
1:C:47:PHE:O	1:C:48:ILE:HD13	2.21	0.41
1:D:115:ASN:C	1:D:190:ASN:HD21	2.23	0.41
1:D:177:ALA:HB3	1:D:483:PHE:HB2	2.01	0.41
1:E:308:ILE:HA	1:E:309:ASN:CB	2.50	0.41
1:F:107:THR:OG1	1:F:108:PRO:HD2	2.20	0.41
1:G:284:ARG:HD2	1:H:346:GLY:CA	63.81	0.41
1:G:382:ASN:OD1	1:G:392:GLU:HG2	2.19	0.41
1:I:107:THR:OG1	1:I:108:PRO:HD2	2.20	0.41
1:I:308:ILE:HA	1:I:309:ASN:CB	2.50	0.41
1:I:418:ASN:OD1	1:I:419:ASP:N	2.53	0.41
1:I:47:PHE:O	1:I:48:ILE:HD13	2.20	0.41
1:B:439:TYR:CZ	1:J:469:ALA:HB2	2.50	0.41
1:J:68:MET:CA	1:J:69:SER:HB3	2.48	0.41
1:K:107:THR:OG1	1:K:108:PRO:HD2	2.20	0.41
1:K:284:ARG:HD2	1:O:346:GLY:CA	2.44	0.41
1:C:94:ARG:NE	1:M:423:SER:O	2.53	0.41
1:N:418:ASN:OD1	1:N:419:ASP:N	2.53	0.41
1:P:357:GLN:CB	1:P:362:SER:HB3	2.48	0.41
1:P:37:SER:HG	1:Q:257:ARG:N	2.12	0.41
1:R:107:THR:OG1	1:R:108:PRO:HD2	2.20	0.41
1:D:37:SER:HG	1:R:257:ARG:N	114.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:308:ILE:HA	1:R:309:ASN:CB	2.50	0.41
1:S:318:ASN:HA	1:S:319:PRO:HA	1.81	0.41
1:S:379:TYR:CE1	1:S:451:TRP:CE2	3.07	0.41
1:T:418:ASN:OD1	1:T:419:ASP:N	2.53	0.41
1:T:423:SER:O	1:3:94:ARG:NE	2.53	0.41
1:V:235:LYS:HA	1:V:236:GLY:HA2	1.90	0.41
1:V:71:MET:HB2	1:V:75:ARG:HH22	1.85	0.41
1:W:381:TRP:O	1:W:381:TRP:CD1	2.73	0.41
1:W:423:SER:O	1:Y:94:ARG:NE	2.53	0.41
1:X:107:THR:OG1	1:X:108:PRO:HD2	2.20	0.41
1:X:397:ASN:HB2	1:X:399:GLU:N	2.35	0.41
1:Y:115:ASN:C	1:Y:190:ASN:HD21	2.23	0.41
1:Y:43:ASN:HD22	1:Y:200:PRO:HB3	1.84	0.41
1:Y:118:GLY:HA2	1:Y:449:TYR:CE1	2.55	0.41
1:Z:107:THR:OG1	1:Z:108:PRO:HD2	2.20	0.41
1:Z:298:GLU:HA	1:Z:299:GLY:HA2	1.56	0.41
1:X:94:ARG:NE	1:Z:423:SER:O	128.24	0.41
1:Z:133:CYS:HB2	1:Z:520:ALA:HB1	2.01	0.41
1:2:263:GLU:HA	1:2:264:SER:HA	1.76	0.41
1:2:418:ASN:OD1	1:2:419:ASP:N	2.53	0.41
1:J:423:SER:O	1:2:94:ARG:NE	141.13	0.41
1:X:98:ASN:ND2	1:4:316:ARG:HH22	2.19	0.41
1:B:191:PHE:CE2	1:5:327:SER:HA	204.10	0.41
1:5:543:GLN:HA	1:5:546:VAL:HG12	2.02	0.41
1:5:68:MET:CA	1:5:69:SER:HB3	2.48	0.41
1:7:68:MET:SD	1:7:503:ARG:NE	2.92	0.41
1:A:335:TRP:HD1	1:A:337:GLU:HB3	1.85	0.41
1:A:354:PRO:HA	1:A:373:ALA:HB3	2.02	0.41
1:A:357:GLN:CB	1:A:362:SER:HB3	2.48	0.41
1:A:382:ASN:OD1	1:A:392:GLU:HG2	2.20	0.41
1:A:516:MET:O	1:A:517:ILE:HD13	2.20	0.41
1:A:374:THR:O	1:B:313:TRP:O	91.90	0.41
1:D:335:TRP:HD1	1:D:337:GLU:HB3	1.85	0.41
1:E:148:ILE:O	1:E:258:THR:HG23	2.21	0.41
1:C:98:ASN:ND2	1:E:316:ARG:HH22	133.72	0.41
1:D:257:ARG:N	1:E:37:SER:HG	2.11	0.41
1:F:381:TRP:CD1	1:F:381:TRP:O	2.73	0.41
1:F:418:ASN:OD1	1:F:419:ASP:N	2.53	0.41
1:A:311:TRP:CE3	1:G:377:ALA:HB2	2.56	0.41
1:G:543:GLN:HA	1:G:546:VAL:HG12	2.02	0.41
1:H:379:TYR:CE1	1:H:451:TRP:CE2	3.07	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:543:GLN:HA	1:I:546:VAL:HG12	2.02	0.41
1:B:322:ALA:HB3	1:J:100:SER:HB2	2.02	0.41
1:K:381:TRP:O	1:K:381:TRP:CD1	2.73	0.41
1:K:418:ASN:OD1	1:K:419:ASP:N	2.53	0.41
1:K:47:PHE:O	1:K:48:ILE:HD13	2.20	0.41
1:K:84:LEU:HD23	1:K:84:LEU:HA	1.90	0.41
1:L:250:MET:HB2	1:L:251:ILE:HG23	2.02	0.41
1:L:311:TRP:CZ3	1:M:377:ALA:HB2	100.81	0.41
1:M:115:ASN:C	1:M:190:ASN:HD21	2.23	0.41
1:M:308:ILE:HA	1:M:309:ASN:CB	2.50	0.41
1:M:47:PHE:O	1:M:48:ILE:HD13	2.20	0.41
1:M:533:LEU:HA	1:M:563:MET:HE1	2.02	0.41
1:M:68:MET:CA	1:M:69:SER:HB3	2.48	0.41
1:N:316:ARG:HH22	1:P:98:ASN:ND2	2.18	0.41
1:N:335:TRP:HD1	1:N:337:GLU:HB3	1.85	0.41
1:O:418:ASN:OD1	1:O:419:ASP:N	2.53	0.41
1:O:71:MET:HB2	1:O:75:ARG:HH22	1.85	0.41
1:P:107:THR:OG1	1:P:108:PRO:HD2	2.20	0.41
1:P:68:MET:CA	1:P:69:SER:HB3	2.48	0.41
1:P:71:MET:HB2	1:P:75:ARG:HH22	1.85	0.41
1:Q:115:ASN:C	1:Q:190:ASN:HD21	2.23	0.41
1:Q:335:TRP:HD1	1:Q:337:GLU:HB3	1.85	0.41
1:Q:418:ASN:OD1	1:Q:419:ASP:N	2.53	0.41
1:R:115:ASN:C	1:R:190:ASN:HD21	2.23	0.41
1:S:418:ASN:OD1	1:S:419:ASP:N	2.53	0.41
1:S:133:CYS:HB2	1:S:520:ALA:HB1	2.01	0.41
1:R:423:SER:O	1:S:94:ARG:NE	2.53	0.41
1:T:107:THR:OG1	1:T:108:PRO:HD2	2.20	0.41
1:T:308:ILE:HG21	1:U:192:TYR:HD1	78.26	0.41
1:U:316:ARG:HH22	1:V:98:ASN:ND2	64.55	0.41
1:U:366:GLY:HA2	1:U:367:THR:HA	1.76	0.41
1:U:68:MET:CA	1:U:69:SER:HB3	2.48	0.41
1:V:308:ILE:HA	1:V:309:ASN:CB	2.50	0.41
1:V:397:ASN:HB2	1:V:399:GLU:N	2.35	0.41
1:V:418:ASN:OD1	1:V:419:ASP:N	2.53	0.41
1:V:68:MET:SD	1:V:503:ARG:NE	2.92	0.41
1:H:322:ALA:HB3	1:W:100:SER:HB2	2.02	0.41
1:Y:107:THR:OG1	1:Y:108:PRO:HD2	2.20	0.41
1:Y:357:GLN:CB	1:Y:362:SER:HB3	2.47	0.41
1:H:94:ARG:NE	1:Y:423:SER:O	2.53	0.41
1:Y:71:MET:HB2	1:Y:75:ARG:HH22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:107:THR:OG1	1:0:108:PRO:HD2	2.20	0.41
1:0:316:ARG:HH22	1:7:98:ASN:ND2	2.18	0.41
1:0:397:ASN:HB2	1:0:399:GLU:N	2.35	0.41
1:0:543:GLN:HA	1:0:546:VAL:HG12	2.02	0.41
1:3:107:THR:OG1	1:3:108:PRO:HD2	2.20	0.41
1:3:250:MET:HB2	1:3:251:ILE:HG23	2.02	0.41
1:3:308:ILE:HA	1:3:309:ASN:CB	2.50	0.41
1:3:418:ASN:OD1	1:3:419:ASP:N	2.53	0.41
1:F:94:ARG:NE	1:3:423:SER:O	171.64	0.41
1:3:68:MET:CA	1:3:69:SER:HB3	2.48	0.41
1:4:139:SER:O	1:4:269:PHE:N	2.45	0.41
1:4:115:ASN:C	1:4:190:ASN:HD21	2.23	0.41
1:U:37:SER:HG	1:4:257:ARG:N	2.10	0.41
1:4:68:MET:CA	1:4:69:SER:HB3	2.48	0.41
1:5:65:HIS:HD2	1:5:205:LYS:HE2	1.86	0.41
1:6:47:PHE:HE2	1:6:128:GLN:CB	2.34	0.41
1:6:333:TYR:CE2	1:6:335:TRP:CE3	3.06	0.41
1:6:374:THR:OG1	1:6:396:GLN:O	2.34	0.41
1:7:397:ASN:HB2	1:7:399:GLU:N	2.35	0.41
1:7:65:HIS:HD2	1:7:205:LYS:HE2	1.86	0.41
1:B:390:MET:HA	1:B:391:ARG:HA	1.72	0.41
1:C:148:ILE:O	1:C:258:THR:HG23	2.21	0.41
1:C:250:MET:HB2	1:C:251:ILE:HG23	2.01	0.41
1:D:47:PHE:O	1:D:48:ILE:HD13	2.20	0.41
1:E:112:LEU:HD11	1:E:482:LEU:HD23	2.01	0.41
1:E:109:TRP:HZ3	1:E:485:LYS:CB	2.27	0.41
1:G:533:LEU:HA	1:G:563:MET:HE1	2.03	0.41
1:H:316:ARG:HH22	1:O:98:ASN:ND2	211.10	0.41
1:H:71:MET:HB2	1:H:75:ARG:HH22	1.85	0.41
1:I:533:LEU:HA	1:I:563:MET:HE1	2.01	0.41
1:J:107:THR:OG1	1:J:108:PRO:HD2	2.20	0.41
1:J:418:ASN:OD1	1:J:419:ASP:N	2.53	0.41
1:J:65:HIS:HD2	1:J:205:LYS:HE2	1.86	0.41
1:K:423:SER:O	1:L:94:ARG:NE	90.06	0.41
1:L:47:PHE:HE2	1:L:128:GLN:CB	2.34	0.41
1:J:423:SER:O	1:L:94:ARG:NE	2.53	0.41
1:M:148:ILE:O	1:M:258:THR:HG23	2.21	0.41
1:M:97:ILE:CG2	1:M:340:ILE:HD12	2.50	0.41
1:M:418:ASN:OD1	1:M:419:ASP:N	2.53	0.41
1:N:100:SER:HB2	1:P:322:ALA:HB3	48.17	0.41
1:N:115:ASN:C	1:N:190:ASN:HD21	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:65:HIS:HD2	1:N:205:LYS:HE2	1.86	0.41
1:N:423:SER:O	1:P:94:ARG:NE	2.53	0.41
1:O:134:ARG:O	1:O:276:LEU:N	2.32	0.41
1:O:47:PHE:O	1:O:48:ILE:HD13	2.20	0.41
1:N:323:SER:HG	1:P:98:ASN:HA	1.80	0.41
1:Q:107:THR:OG1	1:Q:108:PRO:HD2	2.20	0.41
1:Q:65:HIS:HD2	1:Q:205:LYS:HE2	1.85	0.41
1:R:316:ARG:HH22	1:S:98:ASN:ND2	2.19	0.41
1:T:148:ILE:O	1:T:258:THR:HG23	2.21	0.41
1:R:100:SER:HB2	1:U:322:ALA:HB3	2.01	0.41
1:U:357:GLN:CB	1:U:362:SER:HB3	2.48	0.41
1:V:146:GLU:HA	1:V:147:ASN:HA	1.79	0.41
1:V:47:PHE:HE2	1:V:128:GLN:CB	2.34	0.41
1:W:118:GLY:HA2	1:W:449:TYR:CE1	2.55	0.41
1:W:418:ASN:OD1	1:W:419:ASP:N	2.53	0.41
1:X:118:GLY:HA2	1:X:449:TYR:CE1	2.55	0.41
1:Y:418:ASN:OD1	1:Y:419:ASP:N	2.53	0.41
1:Z:418:ASN:OD1	1:Z:419:ASP:N	2.53	0.41
1:O:133:CYS:HB2	1:O:520:ALA:HB1	2.01	0.41
1:1:133:CYS:HB2	1:1:520:ALA:HB1	2.01	0.41
1:1:109:TRP:O	1:1:209:TYR:HB3	2.20	0.41
1:1:148:ILE:O	1:1:258:THR:HG23	2.21	0.41
1:2:109:TRP:NE1	1:2:247:LEU:CD2	2.82	0.41
1:3:516:MET:O	1:3:517:ILE:HD13	2.20	0.41
1:3:533:LEU:HA	1:3:563:MET:HE1	2.03	0.41
1:4:115:ASN:O	1:4:454:ILE:HD12	2.19	0.41
1:4:357:GLN:CB	1:4:362:SER:HB3	2.48	0.41
1:4:418:ASN:OD1	1:4:419:ASP:N	2.53	0.41
1:5:107:THR:OG1	1:5:108:PRO:HD2	2.20	0.41
1:5:381:TRP:CD1	1:5:381:TRP:O	2.73	0.41
1:6:381:TRP:O	1:6:381:TRP:CD1	2.73	0.41
1:K:98:ASN:ND2	1:7:316:ARG:HH22	2.18	0.41
1:7:418:ASN:OD1	1:7:419:ASP:N	2.53	0.41
1:7:47:PHE:HE2	1:7:128:GLN:CB	2.34	0.41
1:A:47:PHE:HE2	1:A:128:GLN:CB	2.34	0.41
1:C:109:TRP:HZ3	1:C:485:LYS:CB	2.27	0.41
1:C:559:PRO:HA	1:C:560:GLY:HA3	1.80	0.41
1:D:418:ASN:OD1	1:D:419:ASP:N	2.53	0.41
1:E:134:ARG:O	1:E:276:LEU:N	2.32	0.41
1:E:322:ALA:HB3	1:Q:100:SER:HB2	2.02	0.41
1:E:65:HIS:HD2	1:E:205:LYS:HE2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:71:MET:HB2	1:E:75:ARG:HH22	1.86	0.41
1:D:423:SER:O	1:E:94:ARG:NE	103.01	0.41
1:A:322:ALA:HB3	1:G:100:SER:HB2	2.02	0.41
1:G:235:LYS:HA	1:G:236:GLY:HA2	1.90	0.41
1:G:311:TRP:CZ3	1:H:377:ALA:HB2	56.30	0.41
1:H:115:ASN:C	1:H:190:ASN:HD21	2.23	0.41
1:H:148:ILE:O	1:H:258:THR:HG23	2.21	0.41
1:H:97:ILE:CG2	1:H:340:ILE:HD12	2.49	0.41
1:H:418:ASN:OD1	1:H:419:ASP:N	2.53	0.41
1:I:148:ILE:O	1:I:258:THR:HG23	2.21	0.41
1:A:346:GLY:CA	1:I:284:ARG:HD2	2.44	0.41
1:J:148:ILE:O	1:J:258:THR:HG23	2.21	0.41
1:J:47:PHE:HE2	1:J:128:GLN:CB	2.34	0.41
1:J:47:PHE:O	1:J:48:ILE:HD13	2.20	0.41
1:K:115:ASN:C	1:K:190:ASN:HD21	2.23	0.41
1:K:225:ASP:CB	1:K:226:ARG:HB2	2.39	0.41
1:K:65:HIS:HD2	1:K:205:LYS:HE2	1.85	0.41
1:K:68:MET:CA	1:K:69:SER:HB3	2.48	0.41
1:K:327:SER:HA	1:L:191:PHE:CE2	69.79	0.41
1:O:381:TRP:CD1	1:O:381:TRP:O	2.73	0.41
1:P:65:HIS:HD2	1:P:205:LYS:HE2	1.86	0.41
1:P:148:ILE:O	1:P:258:THR:HG23	2.21	0.41
1:P:374:THR:OG1	1:P:396:GLN:O	2.34	0.41
1:Q:68:MET:SD	1:Q:503:ARG:NE	2.92	0.41
1:R:322:ALA:HB3	1:S:100:SER:HB2	2.02	0.41
1:S:107:THR:OG1	1:S:108:PRO:HD2	2.20	0.41
1:S:65:HIS:HD2	1:S:205:LYS:HE2	1.86	0.41
1:T:366:GLY:HA2	1:T:367:THR:HA	1.76	0.41
1:T:543:GLN:HA	1:T:546:VAL:HG12	2.02	0.41
1:T:533:LEU:HA	1:T:563:MET:HE1	2.02	0.41
1:S:423:SER:O	1:U:94:ARG:NE	2.53	0.41
1:V:65:HIS:HD2	1:V:205:LYS:HE2	1.86	0.41
1:W:354:PRO:HA	1:W:373:ALA:HB3	2.01	0.41
1:W:65:HIS:HD2	1:W:205:LYS:HE2	1.86	0.41
1:V:98:ASN:ND2	1:X:316:ARG:HH22	2.18	0.41
1:X:335:TRP:HD1	1:X:337:GLU:HB3	1.85	0.41
1:X:47:PHE:HE2	1:X:128:GLN:CB	2.34	0.41
1:H:100:SER:HB2	1:Y:322:ALA:HB3	2.02	0.41
1:Y:47:PHE:HE2	1:Y:128:GLN:CB	2.34	0.41
1:Y:322:ALA:HB3	1:Z:100:SER:HB2	56.86	0.41
1:X:100:SER:HB2	1:Z:322:ALA:HB3	91.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:423:SER:O	1:6:94:ARG:NE	165.37	0.41
1:1:250:MET:HB2	1:1:251:ILE:HG23	2.02	0.41
1:I:346:GLY:CA	1:2:284:ARG:HD2	180.60	0.41
1:2:47:PHE:O	1:2:48:ILE:HD13	2.20	0.41
1:2:561:ARG:HA	1:2:561:ARG:HD3	1.88	0.41
1:3:148:ILE:O	1:3:258:THR:HG23	2.21	0.41
1:3:47:PHE:O	1:3:48:ILE:HD13	2.20	0.41
1:4:244:PHE:C	1:4:246:PRO:HD3	2.41	0.41
1:4:533:LEU:HA	1:4:563:MET:HE1	2.02	0.41
1:5:318:ASN:HA	1:5:319:PRO:HA	1.81	0.41
1:5:47:PHE:HE2	1:5:128:GLN:CB	2.34	0.41
1:6:357:GLN:CB	1:6:362:SER:HB3	2.48	0.41
1:6:177:ALA:HB3	1:6:483:PHE:HB2	2.01	0.41
1:7:533:LEU:HA	1:7:563:MET:HE1	2.03	0.41
1:A:191:PHE:CE2	1:I:327:SER:HA	2.56	0.41
1:A:47:PHE:O	1:A:48:ILE:HD13	2.20	0.41
1:B:418:ASN:OD1	1:B:419:ASP:N	2.53	0.41
1:B:84:LEU:HD23	1:B:84:LEU:HA	1.90	0.41
1:C:335:TRP:HD1	1:C:337:GLU:HB3	1.85	0.41
1:C:57:ILE:HG12	1:C:517:ILE:CD1	2.51	0.41
1:C:68:MET:SD	1:C:503:ARG:NE	2.92	0.41
1:D:65:HIS:HD2	1:D:205:LYS:HE2	1.85	0.41
1:D:366:GLY:HA2	1:D:367:THR:HA	1.76	0.41
1:D:397:ASN:HB2	1:D:399:GLU:N	2.35	0.41
1:C:346:GLY:CA	1:E:284:ARG:HD2	116.27	0.41
1:E:335:TRP:HD1	1:E:337:GLU:HB3	1.85	0.41
1:E:57:ILE:HG12	1:E:517:ILE:CD1	2.51	0.41
1:E:67:ASN:N	1:E:67:ASN:OD1	2.54	0.41
1:F:284:ARG:HD2	1:T:346:GLY:CA	161.10	0.41
1:F:47:PHE:O	1:F:48:ILE:HD13	2.20	0.41
1:G:191:PHE:CE2	1:O:327:SER:HA	175.77	0.41
1:G:148:ILE:O	1:G:258:THR:HG23	2.21	0.41
1:G:357:GLN:CB	1:G:362:SER:HB3	2.47	0.41
1:G:47:PHE:HE2	1:G:128:GLN:CB	2.34	0.41
1:G:94:ARG:NE	1:O:423:SER:O	220.42	0.41
1:H:366:GLY:HA2	1:H:367:THR:HA	1.76	0.41
1:H:423:SER:O	1:W:94:ARG:NE	2.53	0.41
1:H:47:PHE:HE2	1:H:128:GLN:CB	2.34	0.41
1:H:57:ILE:HG12	1:H:517:ILE:CD1	2.51	0.41
1:A:98:ASN:ND2	1:I:316:ARG:HH22	2.18	0.41
1:I:47:PHE:HE2	1:I:128:GLN:CB	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:107:THR:OG1	1:L:108:PRO:HD2	2.20	0.41
1:L:148:ILE:O	1:L:258:THR:HG23	2.21	0.41
1:L:418:ASN:OD1	1:L:419:ASP:N	2.53	0.41
1:M:65:HIS:HD2	1:M:205:LYS:HE2	1.86	0.41
1:M:516:MET:O	1:M:517:ILE:HD13	2.20	0.41
1:M:71:MET:HB2	1:M:75:ARG:HH22	1.85	0.41
1:O:115:ASN:C	1:O:190:ASN:HD21	2.23	0.41
1:O:511:TRP:HE1	1:P:173:LEU:CD1	2.28	0.41
1:O:68:MET:SD	1:O:503:ARG:NE	2.92	0.41
1:N:322:ALA:HB3	1:P:100:SER:HB2	2.02	0.41
1:R:68:MET:CA	1:R:69:SER:HB3	2.48	0.41
1:S:561:ARG:HA	1:S:561:ARG:HD3	1.88	0.41
1:T:47:PHE:HE2	1:T:128:GLN:CB	2.34	0.41
1:T:71:MET:HB2	1:T:75:ARG:HH22	1.85	0.41
1:U:148:ILE:O	1:U:258:THR:HG23	2.21	0.41
1:U:333:TYR:CE2	1:U:335:TRP:CE3	3.06	0.41
1:U:47:PHE:HE2	1:U:128:GLN:CB	2.34	0.41
1:U:71:MET:HB2	1:U:75:ARG:HH22	1.85	0.41
1:V:316:ARG:HH22	1:4:98:ASN:ND2	2.19	0.41
1:W:335:TRP:HD1	1:W:337:GLU:HB3	1.85	0.41
1:W:112:LEU:HD11	1:W:482:LEU:HD23	2.01	0.41
1:W:98:ASN:ND2	1:X:316:ARG:HH22	64.56	0.41
1:X:34:VAL:CG2	1:5:36:HIS:CD2	2.91	0.41
1:X:57:ILE:HG12	1:X:517:ILE:CD1	2.51	0.41
1:X:68:MET:SD	1:X:503:ARG:NE	2.92	0.41
1:Y:225:ASP:CB	1:Y:226:ARG:HB2	2.39	0.41
1:Y:559:PRO:HA	1:Y:560:GLY:HA3	1.80	0.41
1:Z:533:LEU:HA	1:Z:563:MET:HE1	2.02	0.41
1:0:57:ILE:HG12	1:0:517:ILE:CD1	2.51	0.41
1:1:308:ILE:HA	1:1:309:ASN:CB	2.50	0.41
1:1:335:TRP:HD1	1:1:337:GLU:HB3	1.85	0.41
1:M:469:ALA:CB	1:1:439:TYR:CE1	2.87	0.41
1:2:107:THR:OG1	1:2:108:PRO:HD2	2.20	0.41
1:2:381:TRP:O	1:2:381:TRP:CD1	2.73	0.41
1:2:374:THR:OG1	1:2:396:GLN:O	2.34	0.41
1:2:47:PHE:HE2	1:2:128:GLN:CB	2.34	0.41
1:3:335:TRP:HD1	1:3:337:GLU:HB3	1.85	0.41
1:3:354:PRO:HA	1:3:373:ALA:HB3	2.02	0.41
1:4:47:PHE:O	1:4:48:ILE:HD13	2.20	0.41
1:4:65:HIS:HD2	1:4:205:LYS:HE2	1.86	0.41
1:5:112:LEU:HD11	1:5:482:LEU:HD23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:263:GLU:HA	1:5:264:SER:HA	1.75	0.41
1:A:439:TYR:CZ	1:5:469:ALA:HB2	160.40	0.41
1:Y:100:SER:HB2	1:6:322:ALA:HB3	175.77	0.41
1:6:397:ASN:HB2	1:6:399:GLU:N	2.35	0.41
1:6:47:PHE:O	1:6:48:ILE:HD13	2.20	0.41
1:7:146:GLU:HA	1:7:147:ASN:HA	1.79	0.41
1:0:327:SER:HA	1:7:191:PHE:CE2	2.56	0.41
1:A:65:HIS:HD2	1:A:205:LYS:HE2	1.86	0.41
1:A:243:GLN:HG2	1:B:527:GLN:HE21	27.49	0.41
1:A:148:ILE:O	1:A:258:THR:HG23	2.21	0.41
1:A:71:MET:HB2	1:A:75:ARG:HH22	1.85	0.41
1:B:374:THR:OG1	1:B:396:GLN:O	2.34	0.41
1:B:47:PHE:O	1:B:48:ILE:HD13	2.20	0.41
1:B:57:ILE:HG12	1:B:517:ILE:CD1	2.51	0.41
1:C:65:HIS:HD2	1:C:205:LYS:HE2	1.86	0.41
1:C:284:ARG:HD2	1:1:346:GLY:CA	2.44	0.41
1:C:354:PRO:HA	1:C:373:ALA:HB3	2.01	0.41
1:C:84:LEU:HA	1:C:84:LEU:HD23	1.90	0.41
1:E:94:ARG:NE	1:F:423:SER:O	2.53	0.41
1:F:47:PHE:HE2	1:F:128:GLN:CB	2.34	0.41
1:F:65:HIS:HD2	1:F:205:LYS:HE2	1.86	0.41
1:G:65:HIS:HD2	1:G:205:LYS:HE2	1.86	0.41
1:G:327:SER:HA	1:H:191:PHE:CE2	55.72	0.41
1:G:57:ILE:HG12	1:G:517:ILE:CD1	2.51	0.41
1:H:139:SER:O	1:H:269:PHE:N	2.45	0.41
1:H:65:HIS:HD2	1:H:205:LYS:HE2	1.86	0.41
1:G:327:SER:HA	1:I:191:PHE:CE2	2.56	0.41
1:A:94:ARG:NE	1:I:423:SER:O	2.53	0.41
1:I:57:ILE:HG12	1:I:517:ILE:CD1	2.51	0.41
1:J:64:ILE:HG23	1:J:206:LEU:HD13	2.03	0.41
1:J:431:SER:OG	1:J:433:HIS:CD2	2.68	0.41
1:K:148:ILE:O	1:K:258:THR:HG23	2.21	0.41
1:K:191:PHE:CE2	1:7:327:SER:HA	2.56	0.41
1:K:245:THR:HA	1:K:246:PRO:HD2	1.50	0.41
1:K:244:PHE:C	1:K:246:PRO:HD3	2.41	0.41
1:K:423:SER:O	1:0:94:ARG:NE	2.53	0.41
1:K:533:LEU:HA	1:K:563:MET:HE1	2.03	0.41
1:B:98:ASN:ND2	1:L:316:ARG:HH22	2.18	0.41
1:L:84:LEU:HD23	1:L:84:LEU:HA	1.90	0.41
1:M:139:SER:O	1:M:269:PHE:N	2.45	0.41
1:K:98:ASN:ND2	1:M:316:ARG:HH22	127.25	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:57:ILE:HG12	1:M:517:ILE:CD1	2.51	0.41
1:N:107:THR:OG1	1:N:108:PRO:HD2	2.20	0.41
1:N:47:PHE:HE2	1:N:128:GLN:CB	2.34	0.41
1:D:327:SER:HA	1:N:191:PHE:CE2	2.56	0.41
1:N:244:PHE:C	1:N:246:PRO:HD3	2.41	0.41
1:O:148:ILE:O	1:O:258:THR:HG23	2.21	0.41
1:O:65:HIS:HD2	1:O:205:LYS:HE2	1.86	0.41
1:P:57:ILE:HG12	1:P:517:ILE:CD1	2.51	0.41
1:P:67:ASN:OD1	1:P:67:ASN:N	2.54	0.41
1:Q:244:PHE:C	1:Q:246:PRO:HD3	2.41	0.41
1:Q:327:SER:HA	1:R:191:PHE:CE2	55.72	0.41
1:R:418:ASN:OD1	1:R:419:ASP:N	2.53	0.41
1:R:57:ILE:HG12	1:R:517:ILE:CD1	2.51	0.41
1:R:68:MET:SD	1:R:503:ARG:NE	2.92	0.41
1:S:57:ILE:HG12	1:S:517:ILE:CD1	2.51	0.41
1:T:191:PHE:CE2	1:V:327:SER:HA	90.38	0.41
1:T:57:ILE:HG12	1:T:517:ILE:CD1	2.51	0.41
1:U:322:ALA:HB3	1:V:100:SER:HB2	56.85	0.41
1:U:374:THR:OG1	1:U:396:GLN:O	2.34	0.41
1:U:543:GLN:HA	1:U:546:VAL:HG12	2.02	0.41
1:V:357:GLN:CB	1:V:362:SER:HB3	2.48	0.41
1:V:412:ALA:O	1:4:340:ILE:N	2.53	0.41
1:V:57:ILE:HG12	1:V:517:ILE:CD1	2.51	0.41
1:V:533:LEU:HA	1:V:563:MET:HE1	2.03	0.41
1:V:64:ILE:HG23	1:V:206:LEU:HD13	2.03	0.41
1:W:47:PHE:HE2	1:W:128:GLN:CB	2.34	0.41
1:W:177:ALA:HB3	1:W:483:PHE:HB2	2.01	0.41
1:W:94:ARG:NE	1:X:423:SER:O	80.79	0.41
1:X:516:MET:O	1:X:517:ILE:HD13	2.20	0.41
1:X:67:ASN:N	1:X:67:ASN:OD1	2.54	0.41
1:Y:533:LEU:HA	1:Y:563:MET:HE1	2.02	0.41
1:Y:57:ILE:HG12	1:Y:517:ILE:CD1	2.51	0.41
1:Z:47:PHE:HE2	1:Z:128:GLN:CB	2.34	0.41
1:0:382:ASN:OD1	1:0:392:GLU:HG2	2.20	0.41
1:Z:173:LEU:CD1	1:0:511:TRP:HE1	2.30	0.41
1:0:68:MET:SD	1:0:503:ARG:NE	2.92	0.41
1:1:354:PRO:HA	1:1:373:ALA:HB3	2.01	0.41
1:3:333:TYR:CE2	1:3:335:TRP:CE3	3.06	0.41
1:X:102:HIS:NE2	1:4:290:HIS:HB3	2.36	0.41
1:5:47:PHE:O	1:5:48:ILE:HD13	2.20	0.41
1:6:418:ASN:OD1	1:6:419:ASP:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:109:TRP:NE1	1:7:247:LEU:CD2	2.82	0.41
1:K:340:ILE:N	1:7:412:ALA:O	2.53	0.41
1:7:64:ILE:HG23	1:7:206:LEU:HD13	2.03	0.41
1:A:316:ARG:HH22	1:5:98:ASN:ND2	177.58	0.41
1:A:322:ALA:HB3	1:5:100:SER:HB2	169.57	0.41
1:A:57:ILE:HG12	1:A:517:ILE:CD1	2.51	0.41
1:A:67:ASN:OD1	1:A:67:ASN:N	2.54	0.41
1:B:64:ILE:HG23	1:B:206:LEU:HD13	2.03	0.41
1:B:148:ILE:O	1:B:258:THR:HG23	2.21	0.41
1:D:219:ILE:HG22	1:D:232:GLU:HA	2.03	0.41
1:D:57:ILE:HG12	1:D:517:ILE:CD1	2.51	0.41
1:D:64:ILE:HG23	1:D:206:LEU:HD13	2.03	0.41
1:E:64:ILE:HG23	1:E:206:LEU:HD13	2.03	0.41
1:F:256:LEU:HD11	1:F:262:TRP:CB	2.49	0.41
1:G:418:ASN:OD1	1:G:419:ASP:N	2.53	0.41
1:G:423:SER:O	1:I:94:ARG:NE	2.53	0.41
1:H:219:ILE:HG22	1:H:232:GLU:HA	2.03	0.41
1:H:316:ARG:HH22	1:W:98:ASN:ND2	2.19	0.41
1:H:47:PHE:O	1:H:48:ILE:HD13	2.20	0.41
1:H:516:MET:O	1:H:517:ILE:HD13	2.20	0.41
1:H:533:LEU:HA	1:H:563:MET:HE1	2.04	0.41
1:I:100:SER:HB2	1:2:322:ALA:HB3	175.78	0.41
1:I:115:ASN:C	1:I:190:ASN:HD21	2.23	0.41
1:I:71:MET:HB2	1:I:75:ARG:HH22	1.85	0.41
1:J:318:ASN:HA	1:J:319:PRO:HA	1.81	0.41
1:J:559:PRO:HA	1:J:560:GLY:HA3	1.80	0.41
1:K:100:SER:HB2	1:M:322:ALA:HB3	126.29	0.41
1:K:219:ILE:HG22	1:K:232:GLU:HA	2.03	0.41
1:K:290:HIS:HB3	1:O:102:HIS:NE2	2.36	0.41
1:K:37:SER:HG	1:S:257:ARG:N	162.57	0.41
1:K:47:PHE:HE2	1:K:128:GLN:CB	2.34	0.41
1:L:64:ILE:HG23	1:L:206:LEU:HD13	2.03	0.41
1:M:219:ILE:HG22	1:M:232:GLU:HA	2.03	0.41
1:D:290:HIS:HB3	1:N:102:HIS:NE2	2.36	0.41
1:N:219:ILE:HG22	1:N:232:GLU:HA	2.03	0.41
1:N:47:PHE:O	1:N:48:ILE:HD13	2.21	0.41
1:O:219:ILE:HG22	1:O:232:GLU:HA	2.03	0.41
1:O:423:SER:O	1:P:94:ARG:NE	90.06	0.41
1:P:64:ILE:HG23	1:P:206:LEU:HD13	2.03	0.41
1:Q:219:ILE:HG22	1:Q:232:GLU:HA	2.03	0.41
1:Q:290:HIS:HB3	1:R:102:HIS:NE2	53.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:47:PHE:O	1:Q:48:ILE:HD13	2.20	0.41
1:Q:64:ILE:HG23	1:Q:206:LEU:HD13	2.03	0.41
1:R:148:ILE:O	1:R:258:THR:HG23	2.21	0.41
1:R:263:GLU:HA	1:R:264:SER:HA	1.76	0.41
1:R:47:PHE:O	1:R:48:ILE:HD13	2.20	0.41
1:R:533:LEU:HA	1:R:563:MET:HE1	2.02	0.41
1:S:97:ILE:CG2	1:S:340:ILE:HD12	2.50	0.41
1:S:47:PHE:O	1:S:48:ILE:HD13	2.20	0.41
1:T:316:ARG:HH22	1:U:98:ASN:ND2	81.89	0.41
1:S:322:ALA:HB3	1:U:100:SER:HB2	2.02	0.41
1:T:327:SER:HA	1:U:191:PHE:CE2	69.78	0.41
1:U:47:PHE:O	1:U:48:ILE:HD13	2.20	0.41
1:U:65:HIS:HD2	1:U:205:LYS:HE2	1.86	0.41
1:V:191:PHE:CE2	1:X:327:SER:HA	2.56	0.41
1:W:97:ILE:CG2	1:W:340:ILE:HD12	2.49	0.41
1:X:47:PHE:O	1:X:48:ILE:HD13	2.20	0.41
1:Y:148:ILE:O	1:Y:258:THR:HG23	2.21	0.41
1:Y:423:SER:O	1:Z:94:ARG:NE	80.79	0.41
1:Z:148:ILE:O	1:Z:258:THR:HG23	2.21	0.41
1:Z:57:ILE:HG12	1:Z:517:ILE:CD1	2.51	0.41
1:0:109:TRP:CE3	1:0:109:TRP:HA	2.56	0.41
1:0:115:ASN:C	1:0:190:ASN:HD21	2.23	0.41
1:0:219:ILE:HG22	1:0:232:GLU:HA	2.03	0.41
1:0:354:PRO:HA	1:0:373:ALA:HB3	2.02	0.41
1:0:47:PHE:O	1:0:48:ILE:HD13	2.20	0.41
1:1:115:ASN:C	1:1:190:ASN:HD21	2.23	0.41
1:C:327:SER:HA	1:1:191:PHE:CE2	2.56	0.41
1:2:115:ASN:O	1:2:454:ILE:HD12	2.19	0.41
1:2:250:MET:HB2	1:2:251:ILE:HG23	2.02	0.41
1:3:64:ILE:HG23	1:3:206:LEU:HD13	2.03	0.41
1:3:109:TRP:O	1:3:209:TYR:HB3	2.20	0.41
1:3:256:LEU:HD11	1:3:262:TRP:CB	2.49	0.41
1:S:37:SER:HG	1:3:257:ARG:N	2.11	0.41
1:4:118:GLY:HA2	1:4:449:TYR:CE1	2.55	0.41
1:4:47:PHE:HE2	1:4:128:GLN:CB	2.34	0.41
1:V:327:SER:HA	1:4:191:PHE:CE2	2.56	0.41
1:5:418:ASN:OD1	1:5:419:ASP:N	2.53	0.41
1:5:64:ILE:HG23	1:5:206:LEU:HD13	2.03	0.41
1:A:294:ALA:HB2	1:5:75:ARG:HH11	160.09	0.41
1:6:543:GLN:HA	1:6:546:VAL:HG12	2.02	0.41
1:7:366:GLY:HA2	1:7:367:THR:HA	1.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:559:PRO:HA	1:7:560:GLY:HA3	1.80	0.41
1:C:219:ILE:HG22	1:C:232:GLU:HA	2.03	0.41
1:C:423:SER:O	1:1:94:ARG:NE	2.53	0.41
1:C:98:ASN:HA	1:M:323:SER:HG	1.82	0.41
1:D:559:PRO:HA	1:D:560:GLY:HA3	1.80	0.41
1:E:244:PHE:C	1:E:246:PRO:HD3	2.41	0.41
1:C:94:ARG:NE	1:E:423:SER:O	148.78	0.41
1:E:47:PHE:HE2	1:E:128:GLN:CB	2.34	0.41
1:E:533:LEU:HA	1:E:563:MET:HE1	2.02	0.41
1:E:68:MET:SD	1:E:503:ARG:NE	2.92	0.41
1:F:148:ILE:O	1:F:258:THR:HG23	2.21	0.41
1:I:109:TRP:HA	1:I:109:TRP:CE3	2.56	0.41
1:I:443:ASP:OD1	1:J:462:THR:OG1	47.19	0.41
1:L:57:ILE:HG12	1:L:517:ILE:CD1	2.51	0.41
1:M:109:TRP:HA	1:M:109:TRP:CE3	2.56	0.41
1:L:327:SER:HA	1:M:191:PHE:CE2	89.79	0.41
1:M:47:PHE:HE2	1:M:128:GLN:CB	2.34	0.41
1:N:62:ARG:NH1	1:N:119:VAL:HA	2.36	0.41
1:N:225:ASP:CB	1:N:226:ARG:HB2	2.39	0.41
1:N:412:ALA:O	1:P:340:ILE:N	2.53	0.41
1:N:57:ILE:HG12	1:N:517:ILE:CD1	2.51	0.41
1:H:322:ALA:HB3	1:O:100:SER:HB2	195.01	0.41
1:N:290:HIS:HB3	1:O:102:HIS:NE2	53.77	0.41
1:N:102:HIS:NE2	1:P:290:HIS:HB3	52.30	0.41
1:P:97:ILE:CG2	1:P:340:ILE:HD12	2.49	0.41
1:Q:109:TRP:HA	1:Q:109:TRP:CE3	2.56	0.41
1:Q:62:ARG:NH1	1:Q:119:VAL:HA	2.36	0.41
1:Q:148:ILE:O	1:Q:258:THR:HG23	2.21	0.41
1:Q:47:PHE:HE2	1:Q:128:GLN:CB	2.34	0.41
1:Q:57:ILE:HG12	1:Q:517:ILE:CD1	2.51	0.41
1:R:290:HIS:HB3	1:S:102:HIS:NE2	2.36	0.41
1:F:322:ALA:HB3	1:T:100:SER:HB2	163.68	0.41
1:T:109:TRP:CE3	1:T:109:TRP:HA	2.56	0.41
1:T:115:ASN:C	1:T:190:ASN:HD21	2.23	0.41
1:T:263:GLU:HA	1:T:264:SER:HA	1.75	0.41
1:T:284:ARG:HD2	1:U:346:GLY:CA	59.81	0.41
1:T:67:ASN:N	1:T:67:ASN:OD1	2.54	0.41
1:U:298:GLU:HA	1:U:299:GLY:HA2	1.56	0.41
1:U:318:ASN:HA	1:U:319:PRO:HA	1.81	0.41
1:R:191:PHE:CE2	1:U:327:SER:HA	2.56	0.41
1:U:327:SER:HA	1:V:191:PHE:CE2	55.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:98:ASN:ND2	1:V:316:ARG:HH22	104.04	0.41
1:T:94:ARG:NE	1:V:423:SER:O	128.24	0.41
1:V:559:PRO:HA	1:V:560:GLY:HA3	1.80	0.41
1:W:256:LEU:HD11	1:W:262:TRP:CB	2.49	0.41
1:W:308:ILE:HA	1:W:309:ASN:CB	2.50	0.41
1:W:533:LEU:HA	1:W:563:MET:HE1	2.02	0.41
1:W:57:ILE:HG12	1:W:517:ILE:CD1	2.51	0.41
1:X:109:TRP:CE3	1:X:109:TRP:HA	2.56	0.41
1:X:115:ASN:C	1:X:190:ASN:HD21	2.23	0.41
1:X:219:ILE:HG22	1:X:232:GLU:HA	2.03	0.41
1:Y:308:ILE:HA	1:Y:309:ASN:CB	2.50	0.41
1:Z:64:ILE:HG23	1:Z:206:LEU:HD13	2.03	0.41
1:0:148:ILE:O	1:0:258:THR:HG23	2.21	0.41
1:1:109:TRP:CE3	1:1:109:TRP:HA	2.56	0.41
1:3:559:PRO:HA	1:3:560:GLY:HA3	1.80	0.41
1:4:64:ILE:HG23	1:4:206:LEU:HD13	2.03	0.41
1:4:335:TRP:HD1	1:4:337:GLU:HB3	1.85	0.41
1:4:97:ILE:CG2	1:4:340:ILE:HD12	2.49	0.41
1:X:94:ARG:NE	1:4:423:SER:O	2.53	0.41
1:4:57:ILE:HG12	1:4:517:ILE:CD1	2.51	0.41
1:5:148:ILE:O	1:5:258:THR:HG23	2.21	0.41
1:Z:322:ALA:HB3	1:6:100:SER:HB2	163.68	0.41
1:A:219:ILE:HG22	1:A:232:GLU:HA	2.03	0.41
1:A:244:PHE:C	1:A:246:PRO:HD3	2.41	0.41
1:A:98:ASN:HA	1:B:323:SER:HG	74.88	0.41
1:B:109:TRP:HA	1:B:109:TRP:CE3	2.56	0.41
1:B:244:PHE:C	1:B:246:PRO:HD3	2.41	0.41
1:A:377:ALA:HB2	1:B:311:TRP:CE3	90.43	0.41
1:B:316:ARG:HH22	1:J:98:ASN:ND2	2.19	0.41
1:C:191:PHE:CE2	1:E:327:SER:HA	113.94	0.41
1:C:327:SER:HA	1:D:191:PHE:CE2	84.82	0.41
1:C:533:LEU:HA	1:C:563:MET:HE1	2.02	0.41
1:D:109:TRP:HA	1:D:109:TRP:CE3	2.56	0.41
1:D:148:ILE:O	1:D:258:THR:HG23	2.21	0.41
1:E:191:PHE:CE2	1:F:327:SER:HA	2.56	0.41
1:E:219:ILE:HG22	1:E:232:GLU:HA	2.03	0.41
1:E:290:HIS:HB3	1:Q:102:HIS:NE2	2.36	0.41
1:F:102:HIS:NE2	1:Q:290:HIS:HB3	2.36	0.41
1:G:244:PHE:C	1:G:246:PRO:HD3	2.41	0.41
1:G:316:ARG:HH22	1:I:98:ASN:ND2	2.19	0.41
1:H:146:GLU:HA	1:H:147:ASN:HA	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:221:ILE:HG22	1:Y:429:ARG:CG	2.51	0.41
1:H:337:GLU:CB	1:H:338:TRP:CA	2.99	0.41
1:H:412:ALA:O	1:O:340:ILE:N	217.96	0.41
1:H:68:MET:SD	1:H:503:ARG:NE	2.92	0.41
1:I:316:ARG:HH22	1:J:98:ASN:ND2	81.89	0.41
1:J:109:TRP:HA	1:J:109:TRP:CE3	2.56	0.41
1:J:219:ILE:HG22	1:J:232:GLU:HA	2.03	0.41
1:K:109:TRP:HA	1:K:109:TRP:CE3	2.56	0.41
1:K:57:ILE:HG12	1:K:517:ILE:CD1	2.51	0.41
1:L:109:TRP:CE3	1:L:109:TRP:HA	2.56	0.41
1:L:244:PHE:C	1:L:246:PRO:HD3	2.41	0.41
1:L:316:ARG:HH22	1:M:98:ASN:ND2	104.39	0.41
1:L:318:ASN:HA	1:L:319:PRO:HA	1.81	0.41
1:L:322:ALA:HB3	1:M:100:SER:HB2	97.91	0.41
1:L:65:HIS:HD2	1:L:205:LYS:HE2	1.86	0.41
1:K:340:ILE:N	1:M:412:ALA:O	133.13	0.41
1:D:322:ALA:HB3	1:N:100:SER:HB2	2.01	0.41
1:N:191:PHE:CE2	1:P:327:SER:HA	35.97	0.41
1:N:257:ARG:N	1:S:37:SER:HG	100.81	0.41
1:N:148:ILE:O	1:N:258:THR:HG23	2.21	0.41
1:O:109:TRP:HA	1:O:109:TRP:CE3	2.56	0.41
1:O:47:PHE:HE2	1:O:128:GLN:CB	2.34	0.41
1:P:134:ARG:O	1:P:276:LEU:N	2.32	0.41
1:O:327:SER:HA	1:P:191:PHE:CE2	69.78	0.41
1:P:219:ILE:HG22	1:P:232:GLU:HA	2.03	0.41
1:P:244:PHE:C	1:P:246:PRO:HD3	2.41	0.41
1:P:418:ASN:OD1	1:P:419:ASP:N	2.53	0.41
1:E:327:SER:HA	1:Q:191:PHE:CE2	2.56	0.41
1:Q:322:ALA:HB3	1:R:100:SER:HB2	56.86	0.41
1:F:191:PHE:CE2	1:Q:327:SER:HA	2.56	0.41
1:Q:533:LEU:HA	1:Q:563:MET:HE1	2.03	0.41
1:R:412:ALA:O	1:S:340:ILE:N	2.53	0.41
1:R:71:MET:HB2	1:R:75:ARG:HH22	1.85	0.41
1:S:219:ILE:HG22	1:S:232:GLU:HA	2.03	0.41
1:S:148:ILE:O	1:S:258:THR:HG23	2.21	0.41
1:T:219:ILE:HG22	1:T:232:GLU:HA	2.03	0.41
1:U:219:ILE:HG22	1:U:232:GLU:HA	2.03	0.41
1:A:36:HIS:CD2	1:U:34:VAL:CG2	145.67	0.41
1:U:412:ALA:O	1:V:340:ILE:N	73.97	0.41
1:V:102:HIS:NE2	1:X:290:HIS:HB3	2.36	0.41
1:T:102:HIS:NE2	1:V:290:HIS:HB3	84.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:115:ASN:C	1:W:190:ASN:HD21	2.23	0.41
1:Y:109:TRP:CE3	1:Y:109:TRP:HA	2.56	0.41
1:Y:64:ILE:HG23	1:Y:206:LEU:HD13	2.03	0.41
1:Y:290:HIS:HB3	1:Z:102:HIS:NE2	53.77	0.41
1:Z:109:TRP:HA	1:Z:109:TRP:CE3	2.56	0.41
1:Z:219:ILE:HG22	1:Z:232:GLU:HA	2.03	0.41
1:0:335:TRP:HD1	1:0:337:GLU:HB3	1.85	0.41
1:1:219:ILE:HG22	1:1:232:GLU:HA	2.03	0.41
1:1:244:PHE:C	1:1:246:PRO:HD3	2.41	0.41
1:1:263:GLU:HA	1:1:264:SER:HA	1.76	0.41
1:M:191:PHE:CE2	1:1:327:SER:HA	2.56	0.41
1:1:65:HIS:HD2	1:1:205:LYS:HE2	1.86	0.41
1:3:59:HIS:HE1	1:3:515:LYS:HZ1	1.68	0.41
1:3:65:HIS:HD2	1:3:205:LYS:HE2	1.86	0.41
1:3:71:MET:HB2	1:3:75:ARG:HH22	1.85	0.41
1:5:109:TRP:HA	1:5:109:TRP:CE3	2.56	0.41
1:5:57:ILE:HG12	1:5:517:ILE:CD1	2.51	0.41
1:5:71:MET:HB2	1:5:75:ARG:HH22	1.85	0.41
1:6:107:THR:OG1	1:6:108:PRO:HD2	2.20	0.41
1:Z:327:SER:HA	1:6:191:PHE:CE2	138.98	0.41
1:K:102:HIS:NE2	1:7:290:HIS:HB3	2.36	0.41
1:A:109:TRP:HA	1:A:109:TRP:CE3	2.56	0.41
1:A:34:VAL:CG2	1:B:36:HIS:CD2	2.92	0.41
1:B:47:PHE:HE2	1:B:128:GLN:CB	2.34	0.41
1:B:65:HIS:HD2	1:B:205:LYS:HE2	1.86	0.41
1:C:109:TRP:HA	1:C:109:TRP:CE3	2.56	0.41
1:C:191:PHE:CE2	1:M:327:SER:HA	2.56	0.41
1:C:511:TRP:HE1	1:T:173:LEU:CD1	178.49	0.41
1:D:139:SER:O	1:D:269:PHE:N	2.45	0.41
1:D:533:LEU:HA	1:D:563:MET:HE1	2.02	0.41
1:D:327:SER:HA	1:E:191:PHE:CE2	84.82	0.41
1:E:205:LYS:HB2	1:E:205:LYS:HE3	1.91	0.41
1:E:460:ASP:OD1	1:E:460:ASP:N	2.50	0.41
1:F:109:TRP:CE3	1:F:109:TRP:HA	2.56	0.41
1:F:57:ILE:HG12	1:F:517:ILE:CD1	2.51	0.41
1:G:134:ARG:O	1:G:276:LEU:N	2.32	0.41
1:G:290:HIS:HB3	1:I:102:HIS:NE2	2.36	0.41
1:G:374:THR:OG1	1:G:396:GLN:O	2.34	0.41
1:G:47:PHE:O	1:G:48:ILE:HD13	2.20	0.41
1:H:263:GLU:HA	1:H:264:SER:HA	1.76	0.41
1:H:412:ALA:O	1:W:340:ILE:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:62:ARG:NH1	1:I:119:VAL:HA	2.36	0.41
1:I:191:PHE:CE2	1:2:327:SER:HA	161.25	0.41
1:I:219:ILE:HG22	1:I:232:GLU:HA	2.03	0.41
1:G:439:TYR:CZ	1:I:469:ALA:HB2	2.50	0.41
1:J:256:LEU:HD11	1:J:262:TRP:CB	2.49	0.41
1:J:71:MET:HB2	1:J:75:ARG:HH22	1.85	0.41
1:K:412:ALA:O	1:O:340:ILE:N	2.53	0.41
1:K:64:ILE:HG23	1:K:206:LEU:HD13	2.03	0.41
1:L:134:ARG:O	1:L:276:LEU:N	2.32	0.41
1:L:47:PHE:O	1:L:48:ILE:HD13	2.20	0.41
1:M:244:PHE:C	1:M:246:PRO:HD3	2.41	0.41
1:M:337:GLU:CB	1:M:338:TRP:CA	2.99	0.41
1:N:109:TRP:CE3	1:N:109:TRP:HA	2.56	0.41
1:N:327:SER:HA	1:O:191:PHE:CE2	55.72	0.41
1:O:57:ILE:HG12	1:O:517:ILE:CD1	2.51	0.41
1:P:109:TRP:HA	1:P:109:TRP:CE3	2.56	0.41
1:P:47:PHE:HE2	1:P:128:GLN:CB	2.34	0.41
1:R:67:ASN:OD1	1:R:67:ASN:N	2.54	0.41
1:S:327:SER:HA	1:U:191:PHE:CE2	2.56	0.41
1:F:327:SER:HA	1:T:191:PHE:CE2	138.98	0.41
1:T:316:ARG:HH22	1:3:98:ASN:ND2	2.19	0.41
1:U:244:PHE:C	1:U:246:PRO:HD3	2.41	0.41
1:V:109:TRP:HA	1:V:109:TRP:CE3	2.56	0.41
1:V:290:HIS:HB3	1:4:102:HIS:NE2	2.36	0.41
1:V:318:ASN:HA	1:V:319:PRO:HA	1.81	0.41
1:W:109:TRP:HA	1:W:109:TRP:CE3	2.56	0.41
1:W:244:PHE:C	1:W:246:PRO:HD3	2.41	0.41
1:W:290:HIS:HB3	1:Z:102:HIS:NE2	83.11	0.41
1:W:71:MET:HB2	1:W:75:ARG:HH22	1.85	0.41
1:X:221:ILE:HG22	1:Z:429:ARG:CG	129.80	0.41
1:X:366:GLY:HA2	1:X:367:THR:HA	1.76	0.41
1:Y:191:PHE:CE2	1:6:327:SER:HA	161.25	0.41
1:Y:333:TYR:CE2	1:Y:335:TRP:HE3	2.39	0.41
1:Y:67:ASN:N	1:Y:67:ASN:OD1	2.54	0.41
1:W:327:SER:HA	1:Z:191:PHE:CE2	62.92	0.41
1:Z:43:ASN:HD22	1:Z:200:PRO:HB3	1.84	0.41
1:X:191:PHE:CE2	1:Z:327:SER:HA	90.38	0.41
1:Z:333:TYR:CE2	1:Z:335:TRP:HE3	2.39	0.41
1:Z:376:LYS:HA	1:Z:395:TRP:HA	2.03	0.41
1:O:59:HIS:HE1	1:O:515:LYS:HZ1	1.69	0.41
1:O:67:ASN:N	1:O:67:ASN:OD1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:57:ILE:HG12	1:1:517:ILE:CD1	2.51	0.41
1:1:559:PRO:HA	1:1:560:GLY:HA3	1.80	0.41
1:2:256:LEU:HD11	1:2:262:TRP:CB	2.49	0.41
1:2:68:MET:SD	1:2:503:ARG:NE	2.92	0.41
1:3:219:ILE:HG22	1:3:232:GLU:HA	2.03	0.41
1:F:98:ASN:ND2	1:3:316:ARG:HH22	167.65	0.41
1:3:68:MET:SD	1:3:503:ARG:NE	2.92	0.41
1:4:148:ILE:O	1:4:258:THR:HG23	2.21	0.41
1:4:374:THR:OG1	1:4:396:GLN:O	2.34	0.41
1:6:145:ILE:HG23	1:6:510:PHE:CD2	2.56	0.41
1:6:84:LEU:HA	1:6:84:LEU:HD23	1.90	0.41
1:0:290:HIS:HB3	1:7:102:HIS:NE2	2.36	0.41
1:7:109:TRP:CE3	1:7:109:TRP:HA	2.56	0.41
1:A:235:LYS:HA	1:A:236:GLY:HA2	1.90	0.41
1:A:377:ALA:HB2	1:B:311:TRP:CZ3	91.36	0.41
1:B:339:GLN:HE22	1:5:435:THR:CG2	222.83	0.41
1:C:146:GLU:HA	1:C:147:ASN:HA	1.78	0.41
1:C:244:PHE:C	1:C:246:PRO:HD3	2.41	0.41
1:B:36:HIS:O	1:C:257:ARG:HD2	21.06	0.41
1:C:412:ALA:O	1:1:340:ILE:N	2.53	0.41
1:C:64:ILE:HG23	1:C:206:LEU:HD13	2.03	0.41
1:D:47:PHE:HE2	1:D:128:GLN:CB	2.34	0.41
1:D:257:ARG:HG2	1:E:37:SER:CA	2.32	0.41
1:D:469:ALA:HB2	1:P:439:TYR:CZ	2.50	0.41
1:E:412:ALA:O	1:Q:340:ILE:N	2.53	0.41
1:E:418:ASN:OD1	1:E:419:ASP:N	2.53	0.41
1:F:68:MET:SD	1:F:503:ARG:NE	2.92	0.41
1:G:316:ARG:HH22	1:H:98:ASN:ND2	64.56	0.41
1:G:35:GLY:O	1:G:36:HIS:C	2.60	0.41
1:H:62:ARG:NH1	1:H:119:VAL:HA	2.36	0.41
1:H:64:ILE:HG23	1:H:206:LEU:HD13	2.03	0.41
1:H:225:ASP:CB	1:H:226:ARG:HB2	2.39	0.41
1:H:244:PHE:C	1:H:246:PRO:HD3	2.41	0.41
1:J:145:ILE:HG23	1:J:510:PHE:CD2	2.56	0.41
1:J:263:GLU:HA	1:J:264:SER:HA	1.75	0.41
1:J:57:ILE:HG12	1:J:517:ILE:CD1	2.51	0.41
1:J:68:MET:SD	1:J:503:ARG:NE	2.92	0.41
1:K:97:ILE:CG2	1:K:340:ILE:HD12	2.49	0.41
1:J:290:HIS:HB3	1:L:102:HIS:NE2	2.36	0.41
1:B:94:ARG:NE	1:L:423:SER:O	2.53	0.41
1:N:64:ILE:HG23	1:N:206:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:316:ARG:HH22	1:O:98:ASN:ND2	64.55	0.41
1:O:34:VAL:CG2	1:3:36:HIS:CD2	2.93	0.41
1:P:366:GLY:HA2	1:P:367:THR:HA	1.76	0.41
1:P:460:ASP:N	1:P:460:ASP:OD1	2.50	0.41
1:P:145:ILE:HG23	1:P:510:PHE:CD2	2.56	0.41
1:Q:412:ALA:O	1:R:340:ILE:N	73.98	0.41
1:R:64:ILE:HG23	1:R:206:LEU:HD13	2.03	0.41
1:S:109:TRP:HA	1:S:109:TRP:CE3	2.56	0.41
1:S:145:ILE:HG23	1:S:510:PHE:CD2	2.57	0.41
1:T:62:ARG:NH1	1:T:119:VAL:HA	2.36	0.41
1:T:65:HIS:HD2	1:T:205:LYS:HE2	1.86	0.41
1:U:35:GLY:O	1:U:36:HIS:C	2.60	0.41
1:R:94:ARG:NE	1:U:423:SER:O	2.53	0.41
1:V:148:ILE:O	1:V:258:THR:HG23	2.21	0.41
1:V:35:GLY:O	1:V:36:HIS:C	2.60	0.41
1:W:35:GLY:O	1:W:36:HIS:C	2.60	0.41
1:X:65:HIS:HD2	1:X:205:LYS:HE2	1.86	0.41
1:W:290:HIS:HB3	1:Y:102:HIS:NE2	2.36	0.41
1:W:327:SER:HA	1:Y:191:PHE:CE2	2.56	0.41
1:Y:256:LEU:HD11	1:Y:262:TRP:CB	2.49	0.41
1:H:191:PHE:CE2	1:Y:327:SER:HA	2.56	0.41
1:Y:460:ASP:N	1:Y:460:ASP:OD1	2.50	0.41
1:Z:333:TYR:CE2	1:Z:335:TRP:CE3	3.06	0.41
1:Z:145:ILE:HG23	1:Z:510:PHE:CD2	2.56	0.41
1:0:516:MET:O	1:0:517:ILE:HD13	2.20	0.40
1:1:146:GLU:HA	1:1:147:ASN:HA	1.79	0.40
1:1:173:LEU:CD1	1:1:511:TRP:HE1	126.09	0.40
1:1:84:LEU:HA	1:1:84:LEU:HD23	1.90	0.40
1:2:109:TRP:CE3	1:2:109:TRP:HA	2.56	0.40
1:2:333:TYR:CE2	1:2:335:TRP:HE3	2.39	0.40
1:I:340:ILE:N	1:2:412:ALA:O	191.97	0.40
1:2:64:ILE:HG23	1:2:206:LEU:HD13	2.03	0.40
1:3:109:TRP:CE3	1:3:109:TRP:HA	2.56	0.40
1:3:145:ILE:HG23	1:3:510:PHE:CD2	2.56	0.40
1:3:318:ASN:HA	1:3:319:PRO:HA	1.81	0.40
1:F:191:PHE:CE2	1:3:327:SER:HA	142.82	0.40
1:3:57:ILE:HG12	1:3:517:ILE:CD1	2.51	0.40
1:X:340:ILE:N	1:4:412:ALA:O	2.53	0.40
1:B:192:TYR:HD1	1:5:308:ILE:HG21	217.31	0.40
1:6:219:ILE:HG22	1:6:232:GLU:HA	2.03	0.40
1:6:223:GLN:HB3	1:6:226:ARG:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:35:GLY:O	1:6:36:HIS:C	2.60	0.40
1:Y:94:ARG:NE	1:6:423:SER:O	208.14	0.40
1:Z:439:TYR:CZ	1:6:469:ALA:HB2	126.33	0.40
1:7:145:ILE:HG23	1:7:510:PHE:CD2	2.56	0.40
1:7:148:ILE:O	1:7:258:THR:HG23	2.21	0.40
1:B:511:TRP:HE1	1:C:173:LEU:CD1	34.15	0.40
1:B:529:ASN:O	1:E:124:ALA:HB2	104.78	0.40
1:B:71:MET:HB2	1:B:75:ARG:HH22	1.85	0.40
1:C:145:ILE:HG23	1:C:510:PHE:CD2	2.56	0.40
1:D:145:ILE:HG23	1:D:510:PHE:CD2	2.56	0.40
1:D:333:TYR:CE2	1:D:335:TRP:HE3	2.39	0.40
1:D:412:ALA:O	1:E:340:ILE:N	92.99	0.40
1:D:412:ALA:O	1:N:340:ILE:N	2.53	0.40
1:E:366:GLY:HA2	1:E:367:THR:HA	1.76	0.40
1:E:381:TRP:CE3	1:E:384:GLY:HA3	2.57	0.40
1:E:145:ILE:HG23	1:E:510:PHE:CD2	2.56	0.40
1:F:64:ILE:HG23	1:F:206:LEU:HD13	2.03	0.40
1:F:35:GLY:O	1:F:36:HIS:C	2.60	0.40
1:A:527:GLN:HE21	1:G:243:GLN:HG2	1.87	0.40
1:G:561:ARG:HD3	1:G:561:ARG:HA	1.88	0.40
1:H:102:HIS:NE2	1:Y:290:HIS:HB3	2.36	0.40
1:H:223:GLN:HB3	1:H:226:ARG:O	2.21	0.40
1:I:64:ILE:HG23	1:I:206:LEU:HD13	2.03	0.40
1:I:376:LYS:HA	1:I:395:TRP:HA	2.03	0.40
1:J:316:ARG:HH22	1:2:98:ASN:ND2	128.00	0.40
1:K:366:GLY:HA2	1:K:367:THR:HA	1.76	0.40
1:L:225:ASP:CB	1:L:226:ARG:HB2	2.39	0.40
1:B:102:HIS:NE2	1:L:290:HIS:HB3	2.36	0.40
1:L:71:MET:HB2	1:L:75:ARG:HH22	1.85	0.40
1:M:225:ASP:CB	1:M:226:ARG:HB2	2.39	0.40
1:C:340:ILE:N	1:M:412:ALA:O	2.53	0.40
1:N:381:TRP:CE3	1:N:384:GLY:HA3	2.57	0.40
1:N:67:ASN:N	1:N:67:ASN:OD1	2.54	0.40
1:O:396:GLN:OE1	1:O:396:GLN:N	2.55	0.40
1:N:290:HIS:HB3	1:P:102:HIS:NE2	2.36	0.40
1:P:333:TYR:CE2	1:P:335:TRP:HE3	2.39	0.40
1:F:98:ASN:ND2	1:Q:316:ARG:HH22	2.19	0.40
1:Q:381:TRP:CE3	1:Q:384:GLY:HA3	2.57	0.40
1:Q:67:ASN:OD1	1:Q:67:ASN:N	2.54	0.40
1:R:109:TRP:CE3	1:R:109:TRP:HA	2.56	0.40
1:R:65:HIS:HD2	1:R:205:LYS:HE2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:327:SER:HA	1:S:191:PHE:CE2	2.56	0.40
1:R:333:TYR:CE2	1:R:335:TRP:HE3	2.39	0.40
1:R:145:ILE:HG23	1:R:510:PHE:CD2	2.56	0.40
1:R:429:ARG:CG	1:S:221:ILE:HG22	2.51	0.40
1:S:333:TYR:CE2	1:S:335:TRP:HE3	2.39	0.40
1:T:223:GLN:HB3	1:T:226:ARG:O	2.22	0.40
1:T:290:HIS:HB3	1:U:102:HIS:NE2	64.40	0.40
1:T:376:LYS:HA	1:T:395:TRP:HA	2.04	0.40
1:T:423:SER:O	1:U:94:ARG:NE	90.07	0.40
1:U:223:GLN:HB3	1:U:226:ARG:O	2.22	0.40
1:U:145:ILE:HG23	1:U:510:PHE:CD2	2.56	0.40
1:U:57:ILE:HG12	1:U:517:ILE:CD1	2.51	0.40
1:V:145:ILE:HG23	1:V:510:PHE:CD2	2.56	0.40
1:W:223:GLN:HB3	1:W:226:ARG:O	2.22	0.40
1:W:47:PHE:O	1:W:48:ILE:HD13	2.20	0.40
1:X:62:ARG:NH1	1:X:119:VAL:HA	2.36	0.40
1:X:64:ILE:HG23	1:X:206:LEU:HD13	2.03	0.40
1:X:148:ILE:O	1:X:258:THR:HG23	2.21	0.40
1:W:340:ILE:N	1:X:412:ALA:O	73.98	0.40
1:Y:62:ARG:NH1	1:Y:119:VAL:HA	2.36	0.40
1:H:98:ASN:ND2	1:Y:316:ARG:HH22	2.19	0.40
1:Y:327:SER:HA	1:Z:191:PHE:CE2	55.72	0.40
1:Y:376:LYS:HA	1:Y:395:TRP:HA	2.04	0.40
1:Z:62:ARG:NH1	1:Z:119:VAL:HA	2.36	0.40
1:Y:429:ARG:CG	1:Z:221:ILE:HG22	81.39	0.40
1:Z:256:LEU:HD11	1:Z:262:TRP:CB	2.49	0.40
1:X:98:ASN:ND2	1:Z:316:ARG:HH22	104.04	0.40
1:Z:35:GLY:O	1:Z:36:HIS:C	2.60	0.40
1:Z:65:HIS:HD2	1:Z:205:LYS:HE2	1.86	0.40
1:Z:68:MET:CA	1:Z:69:SER:HB3	2.48	0.40
1:O:47:PHE:HE2	1:O:128:GLN:CB	2.34	0.40
1:1:374:THR:OG1	1:1:396:GLN:O	2.34	0.40
1:2:223:GLN:HB3	1:2:226:ARG:O	2.22	0.40
1:2:57:ILE:HG12	1:2:517:ILE:CD1	2.51	0.40
1:2:65:HIS:HD2	1:2:205:LYS:HE2	1.86	0.40
1:3:263:GLU:HA	1:3:264:SER:HA	1.76	0.40
1:3:333:TYR:CE2	1:3:335:TRP:HE3	2.39	0.40
1:3:431:SER:OG	1:3:433:HIS:CD2	2.68	0.40
1:V:311:TRP:CE3	1:4:377:ALA:HB2	2.56	0.40
1:4:71:MET:HB2	1:4:75:ARG:HH22	1.85	0.40
1:5:145:ILE:HG23	1:5:510:PHE:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:333:TYR:CE2	1:5:335:TRP:HE3	2.39	0.40
1:6:333:TYR:CE2	1:6:335:TRP:HE3	2.39	0.40
1:6:59:HIS:HE1	1:6:515:LYS:HZ1	1.68	0.40
1:0:311:TRP:CE3	1:7:377:ALA:HB2	2.57	0.40
1:7:57:ILE:HG12	1:7:517:ILE:CD1	2.51	0.40
1:A:327:SER:HA	1:5:191:PHE:CE2	153.50	0.40
1:A:145:ILE:HG23	1:A:510:PHE:CD2	2.56	0.40
1:A:64:ILE:HG23	1:A:206:LEU:HD13	2.03	0.40
1:B:223:GLN:HB3	1:B:226:ARG:O	2.22	0.40
1:B:327:SER:HA	1:J:191:PHE:CE2	2.56	0.40
1:C:102:HIS:NE2	1:E:290:HIS:HB3	112.13	0.40
1:C:221:ILE:HG22	1:M:429:ARG:CG	2.51	0.40
1:C:223:GLN:HB3	1:C:226:ARG:O	2.22	0.40
1:C:316:ARG:HH22	1:D:98:ASN:ND2	100.52	0.40
1:C:381:TRP:CE3	1:C:384:GLY:HA3	2.57	0.40
1:C:47:PHE:HE2	1:C:128:GLN:CB	2.34	0.40
1:D:381:TRP:CE3	1:D:384:GLY:HA3	2.57	0.40
1:D:68:MET:CA	1:D:69:SER:HB3	2.48	0.40
1:D:71:MET:HB2	1:D:75:ARG:HH22	1.85	0.40
1:C:340:ILE:N	1:E:412:ALA:O	132.50	0.40
1:F:146:GLU:HA	1:F:147:ASN:HA	1.79	0.40
1:F:223:GLN:HB3	1:F:226:ARG:O	2.22	0.40
1:F:333:TYR:CE2	1:F:335:TRP:HE3	2.39	0.40
1:G:322:ALA:HB3	1:H:100:SER:HB2	56.86	0.40
1:G:145:ILE:HG23	1:G:510:PHE:CD2	2.56	0.40
1:H:333:TYR:CE2	1:H:335:TRP:HE3	2.39	0.40
1:H:561:ARG:HD3	1:H:561:ARG:HA	1.88	0.40
1:I:244:PHE:C	1:I:246:PRO:HD3	2.41	0.40
1:I:65:HIS:HD2	1:I:205:LYS:HE2	1.86	0.40
1:B:429:ARG:CG	1:J:221:ILE:HG22	2.51	0.40
1:J:244:PHE:C	1:J:246:PRO:HD3	2.41	0.40
1:J:316:ARG:HH22	1:L:98:ASN:ND2	2.19	0.40
1:J:327:SER:HA	1:2:191:PHE:CE2	111.26	0.40
1:J:333:TYR:CE2	1:J:335:TRP:HE3	2.39	0.40
1:K:223:GLN:HB3	1:K:226:ARG:O	2.22	0.40
1:K:396:GLN:OE1	1:K:396:GLN:N	2.55	0.40
1:K:511:TRP:HE1	1:S:173:LEU:CD1	171.02	0.40
1:L:219:ILE:HG22	1:L:232:GLU:HA	2.03	0.40
1:L:223:GLN:HB3	1:L:226:ARG:O	2.22	0.40
1:B:191:PHE:CE2	1:L:327:SER:HA	2.56	0.40
1:L:376:LYS:HA	1:L:395:TRP:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:333:TYR:CE2	1:M:335:TRP:HE3	2.39	0.40
1:O:205:LYS:HE3	1:O:205:LYS:HB2	1.91	0.40
1:O:223:GLN:HB3	1:O:226:ARG:O	2.22	0.40
1:O:35:GLY:O	1:O:36:HIS:C	2.60	0.40
1:P:223:GLN:HB3	1:P:226:ARG:O	2.22	0.40
1:P:333:TYR:CE2	1:P:335:TRP:CE3	3.06	0.40
1:Q:145:ILE:HG23	1:Q:510:PHE:CD2	2.56	0.40
1:Q:377:ALA:HB2	1:S:311:TRP:CE3	84.01	0.40
1:Q:559:PRO:HA	1:Q:560:GLY:HA3	1.80	0.40
1:Q:71:MET:HB2	1:Q:75:ARG:HH22	1.85	0.40
1:R:460:ASP:N	1:R:460:ASP:OD1	2.50	0.40
1:R:47:PHE:HE2	1:R:128:GLN:CB	2.34	0.40
1:S:64:ILE:HG23	1:S:206:LEU:HD13	2.03	0.40
1:S:244:PHE:C	1:S:246:PRO:HD3	2.41	0.40
1:S:67:ASN:N	1:S:67:ASN:OD1	2.54	0.40
1:T:244:PHE:C	1:T:246:PRO:HD3	2.41	0.40
1:T:469:ALA:HB2	1:V:439:TYR:CZ	106.96	0.40
1:U:333:TYR:CE2	1:U:335:TRP:HE3	2.39	0.40
1:W:145:ILE:HG23	1:W:510:PHE:CD2	2.56	0.40
1:X:223:GLN:HB3	1:X:226:ARG:O	2.22	0.40
1:X:256:LEU:HD11	1:X:262:TRP:CB	2.49	0.40
1:Y:145:ILE:HG23	1:Y:510:PHE:CD2	2.56	0.40
1:Y:68:MET:CA	1:Y:69:SER:HB3	2.48	0.40
1:Z:357:GLN:CB	1:Z:362:SER:HB3	2.47	0.40
1:Z:47:PHE:O	1:Z:48:ILE:HD13	2.20	0.40
1:0:381:TRP:CE3	1:0:384:GLY:HA3	2.57	0.40
1:0:65:HIS:HD2	1:0:205:LYS:HE2	1.86	0.40
1:C:290:HIS:HB3	1:1:102:HIS:NE2	2.36	0.40
1:1:223:GLN:HB3	1:1:226:ARG:O	2.22	0.40
1:M:98:ASN:ND2	1:1:316:ARG:HH22	2.19	0.40
1:M:37:SER:CB	1:2:257:ARG:CG	24.58	0.40
1:2:145:ILE:HG23	1:2:510:PHE:CD2	2.57	0.40
1:T:429:ARG:CG	1:3:221:ILE:HG22	2.51	0.40
1:3:396:GLN:N	1:3:396:GLN:OE1	2.55	0.40
1:3:67:ASN:N	1:3:67:ASN:OD1	2.54	0.40
1:4:145:ILE:HG23	1:4:510:PHE:CD2	2.56	0.40
1:4:109:TRP:HZ3	1:4:485:LYS:CB	2.27	0.40
1:4:67:ASN:N	1:4:67:ASN:OD1	2.54	0.40
1:5:244:PHE:C	1:5:246:PRO:HD3	2.41	0.40
1:5:366:GLY:HA2	1:5:367:THR:HA	1.76	0.40
1:6:68:MET:SD	1:6:503:ARG:NE	2.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:145:ILE:HG23	1:B:510:PHE:CD2	2.56	0.40
1:B:337:GLU:CB	1:B:338:TRP:CA	2.99	0.40
1:B:376:LYS:HA	1:B:395:TRP:HA	2.03	0.40
1:B:396:GLN:N	1:B:396:GLN:OE1	2.55	0.40
1:C:205:LYS:HB2	1:C:205:LYS:HE3	1.91	0.40
1:C:263:GLU:HA	1:C:264:SER:HA	1.76	0.40
1:C:311:TRP:CE3	1:D:377:ALA:HB2	84.01	0.40
1:D:377:ALA:HB2	1:P:311:TRP:CE3	2.57	0.40
1:D:396:GLN:N	1:D:396:GLN:OE1	2.55	0.40
1:D:67:ASN:OD1	1:D:67:ASN:N	2.54	0.40
1:E:62:ARG:NH1	1:E:119:VAL:HA	2.36	0.40
1:F:381:TRP:CE3	1:F:384:GLY:HA3	2.57	0.40
1:F:396:GLN:N	1:F:396:GLN:OE1	2.55	0.40
1:F:412:ALA:O	1:T:340:ILE:N	151.99	0.40
1:F:145:ILE:HG23	1:F:510:PHE:CD2	2.57	0.40
1:F:67:ASN:OD1	1:F:67:ASN:N	2.54	0.40
1:G:102:HIS:NE2	1:O:290:HIS:HB3	182.21	0.40
1:G:219:ILE:HG22	1:G:232:GLU:HA	2.03	0.40
1:H:290:HIS:HB3	1:O:102:HIS:NE2	187.87	0.40
1:H:290:HIS:HB3	1:W:102:HIS:NE2	2.36	0.40
1:I:223:GLN:HB3	1:I:226:ARG:O	2.22	0.40
1:I:263:GLU:HA	1:I:264:SER:HA	1.76	0.40
1:I:327:SER:HA	1:J:191:PHE:CE2	69.79	0.40
1:I:381:TRP:CE3	1:I:384:GLY:HA3	2.57	0.40
1:J:327:SER:HA	1:L:191:PHE:CE2	2.56	0.40
1:J:396:GLN:N	1:J:396:GLN:OE1	2.55	0.40
1:K:109:TRP:HZ3	1:K:485:LYS:CB	2.27	0.40
1:K:145:ILE:HG23	1:K:510:PHE:CD2	2.56	0.40
1:K:561:ARG:HA	1:K:561:ARG:HD3	1.88	0.40
1:K:71:MET:HB2	1:K:75:ARG:HH22	1.85	0.40
1:L:311:TRP:CE3	1:M:377:ALA:HB2	99.94	0.40
1:L:337:GLU:CB	1:L:338:TRP:CA	2.99	0.40
1:L:396:GLN:N	1:L:396:GLN:OE1	2.55	0.40
1:M:381:TRP:CE3	1:M:384:GLY:HA3	2.57	0.40
1:M:396:GLN:N	1:M:396:GLN:OE1	2.55	0.40
1:M:145:ILE:HG23	1:M:510:PHE:CD2	2.56	0.40
1:M:67:ASN:OD1	1:M:67:ASN:N	2.54	0.40
1:M:97:ILE:CG2	1:M:340:ILE:HG21	2.52	0.40
1:N:223:GLN:HB3	1:N:226:ARG:O	2.22	0.40
1:N:35:GLY:O	1:N:36:HIS:C	2.60	0.40
1:O:381:TRP:CE3	1:O:384:GLY:HA3	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:145:ILE:HG23	1:O:510:PHE:CD2	2.56	0.40
1:O:67:ASN:OD1	1:O:67:ASN:N	2.54	0.40
1:N:377:ALA:HB2	1:P:311:TRP:CE3	46.52	0.40
1:P:381:TRP:CE3	1:P:384:GLY:HA3	2.57	0.40
1:N:340:ILE:N	1:P:412:ALA:O	23.53	0.40
1:P:68:MET:SD	1:P:503:ARG:NE	2.92	0.40
1:Q:223:GLN:HB3	1:Q:226:ARG:O	2.22	0.40
1:Q:396:GLN:N	1:Q:396:GLN:OE1	2.55	0.40
1:Q:469:ALA:HB2	1:S:439:TYR:CZ	76.86	0.40
1:R:35:GLY:O	1:R:36:HIS:C	2.60	0.40
1:F:173:LEU:CD1	1:R:511:TRP:HE1	2.29	0.40
1:S:223:GLN:HB3	1:S:226:ARG:O	2.22	0.40
1:S:35:GLY:O	1:S:36:HIS:C	2.60	0.40
1:S:68:MET:SD	1:S:503:ARG:NE	2.92	0.40
1:S:71:MET:HB2	1:S:75:ARG:HH22	1.85	0.40
1:T:64:ILE:HG23	1:T:206:LEU:HD13	2.03	0.40
1:T:327:SER:HA	1:3:191:PHE:CE2	2.56	0.40
1:T:381:TRP:CE3	1:T:384:GLY:HA3	2.57	0.40
1:U:68:MET:SD	1:U:503:ARG:NE	2.92	0.40
1:U:290:HIS:HB3	1:V:102:HIS:NE2	53.76	0.40
1:V:244:PHE:C	1:V:246:PRO:HD3	2.41	0.40
1:U:311:TRP:CE3	1:V:377:ALA:HB2	55.20	0.40
1:V:377:ALA:HB2	1:X:311:TRP:CE3	2.57	0.40
1:R:173:LEU:CD1	1:V:511:TRP:HE1	2.29	0.40
1:W:219:ILE:HG22	1:W:232:GLU:HA	2.03	0.40
1:W:333:TYR:CE2	1:W:335:TRP:HE3	2.39	0.40
1:X:102:HIS:NE2	1:Z:290:HIS:HB3	84.65	0.40
1:W:102:HIS:NE2	1:X:290:HIS:HB3	53.77	0.40
1:W:191:PHE:CE2	1:X:327:SER:HA	55.72	0.40
1:X:381:TRP:CE3	1:X:384:GLY:HA3	2.57	0.40
1:X:68:MET:CA	1:X:69:SER:HB3	2.48	0.40
1:Y:244:PHE:C	1:Y:246:PRO:HD3	2.41	0.40
1:Y:47:PHE:O	1:Y:48:ILE:HD13	2.20	0.40
1:Y:65:HIS:HD2	1:Y:205:LYS:HE2	1.86	0.40
1:Z:244:PHE:C	1:Z:246:PRO:HD3	2.41	0.40
1:0:223:GLN:HB3	1:0:226:ARG:O	2.22	0.40
1:0:333:TYR:CE2	1:0:335:TRP:HE3	2.39	0.40
1:2:148:ILE:O	1:2:258:THR:HG23	2.21	0.40
1:J:311:TRP:CE3	1:2:377:ALA:HB2	101.76	0.40
1:2:381:TRP:CE3	1:2:384:GLY:HA3	2.57	0.40
1:T:290:HIS:HB3	1:3:102:HIS:NE2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:561:ARG:HD3	1:4:561:ARG:HA	1.88	0.40
1:4:97:ILE:CG2	1:4:340:ILE:HG21	2.52	0.40
1:6:64:ILE:HG23	1:6:206:LEU:HD13	2.03	0.40
1:6:244:PHE:C	1:6:246:PRO:HD3	2.41	0.40
1:7:318:ASN:HA	1:7:319:PRO:HA	1.81	0.40
1:7:333:TYR:CE2	1:7:335:TRP:HE3	2.39	0.40
1:A:97:ILE:CG2	1:A:340:ILE:HD12	2.49	0.40
1:A:381:TRP:CE3	1:A:384:GLY:HA3	2.57	0.40
1:B:377:ALA:HB2	1:L:311:TRP:CE3	2.57	0.40
1:B:381:TRP:CE3	1:B:384:GLY:HA3	2.57	0.40
1:C:35:GLY:O	1:C:36:HIS:C	2.60	0.40
1:E:284:ARG:CG	1:E:284:ARG:O	2.70	0.40
1:E:311:TRP:CE3	1:Q:377:ALA:HB2	2.57	0.40
1:D:173:LEU:CD1	1:E:511:TRP:HE1	2.29	0.40
1:F:257:ARG:CG	1:H:37:SER:CB	91.75	0.40
1:F:376:LYS:HA	1:F:395:TRP:HA	2.04	0.40
1:G:223:GLN:HB3	1:G:226:ARG:O	2.22	0.40
1:G:311:TRP:CE3	1:H:377:ALA:HB2	55.20	0.40
1:G:333:TYR:CE2	1:G:335:TRP:HE3	2.39	0.40
1:G:68:MET:CA	1:G:69:SER:HB3	2.48	0.40
1:H:327:SER:HA	1:W:191:PHE:CE2	2.56	0.40
1:H:381:TRP:CE3	1:H:384:GLY:HA3	2.57	0.40
1:I:67:ASN:N	1:I:67:ASN:OD1	2.54	0.40
1:I:429:ARG:CG	1:J:221:ILE:HG22	73.94	0.40
1:B:311:TRP:CE3	1:J:377:ALA:HB2	2.57	0.40
1:J:381:TRP:CE3	1:J:384:GLY:HA3	2.57	0.40
1:J:67:ASN:N	1:J:67:ASN:OD1	2.54	0.40
1:K:311:TRP:CE3	1:O:377:ALA:HB2	2.56	0.40
1:K:316:ARG:HH22	1:L:98:ASN:ND2	81.88	0.40
1:K:381:TRP:CE3	1:K:384:GLY:HA3	2.57	0.40
1:K:67:ASN:N	1:K:67:ASN:OD1	2.54	0.40
1:K:85:PHE:CD1	1:K:99:ASP:HB3	2.53	0.40
1:K:290:HIS:HB3	1:L:102:HIS:NE2	64.40	0.40
1:L:511:TRP:HE1	1:1:173:LEU:CD1	2.29	0.40
1:K:102:HIS:NE2	1:M:290:HIS:HB3	125.46	0.40
1:N:376:LYS:HA	1:N:395:TRP:HA	2.03	0.40
1:N:396:GLN:OE1	1:N:396:GLN:N	2.55	0.40
1:N:145:ILE:HG23	1:N:510:PHE:CD2	2.56	0.40
1:O:64:ILE:HG23	1:O:206:LEU:HD13	2.03	0.40
1:G:98:ASN:ND2	1:O:316:ARG:HH22	205.03	0.40
1:O:376:LYS:HA	1:O:395:TRP:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:191:PHE:CE2	1:S:327:SER:HA	84.82	0.40
1:Q:333:TYR:CE2	1:Q:335:TRP:HE3	2.39	0.40
1:Q:35:GLY:O	1:Q:36:HIS:C	2.60	0.40
1:R:221:ILE:HG22	1:U:429:ARG:CG	2.51	0.40
1:R:244:PHE:C	1:R:246:PRO:HD3	2.41	0.40
1:S:376:LYS:HA	1:S:395:TRP:HA	2.04	0.40
1:S:47:PHE:HE2	1:S:128:GLN:CB	2.34	0.40
1:T:102:HIS:HE1	1:T:104:LYS:CE	2.35	0.40
1:C:37:SER:CA	1:T:257:ARG:HG2	162.90	0.40
1:U:109:TRP:CE3	1:U:109:TRP:HA	2.56	0.40
1:U:64:ILE:HG23	1:U:206:LEU:HD13	2.03	0.40
1:U:97:ILE:CG2	1:U:340:ILE:HD12	2.49	0.40
1:S:439:TYR:CZ	1:U:469:ALA:HB2	2.50	0.40
1:U:67:ASN:OD1	1:U:67:ASN:N	2.54	0.40
1:V:333:TYR:CE2	1:V:335:TRP:HE3	2.39	0.40
1:V:97:ILE:CG2	1:V:340:ILE:HG21	2.52	0.40
1:W:148:ILE:O	1:W:258:THR:HG23	2.21	0.40
1:W:381:TRP:CE3	1:W:384:GLY:HA3	2.57	0.40
1:X:263:GLU:HA	1:X:264:SER:HA	1.76	0.40
1:X:333:TYR:CE2	1:X:335:TRP:HE3	2.39	0.40
1:Y:219:ILE:HG22	1:Y:232:GLU:HA	2.03	0.40
1:Y:223:GLN:HB3	1:Y:226:ARG:O	2.22	0.40
1:Y:257:ARG:HG2	1:7:37:SER:CA	112.35	0.40
1:Y:97:ILE:CG2	1:Y:340:ILE:HG21	2.52	0.40
1:0:244:PHE:C	1:0:246:PRO:HD3	2.41	0.40
1:0:256:LEU:HD11	1:0:262:TRP:CB	2.49	0.40
1:1:97:ILE:CG2	1:1:340:ILE:HG21	2.52	0.40
1:1:35:GLY:O	1:1:36:HIS:C	2.60	0.40
1:1:533:LEU:HA	1:1:563:MET:HE1	2.03	0.40
1:J:290:HIS:HB3	1:2:102:HIS:NE2	126.11	0.40
1:2:396:GLN:N	1:2:396:GLN:OE1	2.55	0.40
1:2:67:ASN:N	1:2:67:ASN:OD1	2.54	0.40
1:3:223:GLN:HB3	1:3:226:ARG:O	2.22	0.40
1:3:47:PHE:HE2	1:3:128:GLN:CB	2.34	0.40
1:4:333:TYR:CE2	1:4:335:TRP:HE3	2.39	0.40
1:4:85:PHE:CD1	1:4:99:ASP:HB3	2.53	0.40
1:5:381:TRP:CE3	1:5:384:GLY:HA3	2.57	0.40
1:5:376:LYS:HA	1:5:395:TRP:HA	2.04	0.40
1:6:431:SER:OG	1:6:433:HIS:CD2	2.68	0.40
1:7:35:GLY:O	1:7:36:HIS:C	2.60	0.40
1:7:97:ILE:CG2	1:7:340:ILE:HG21	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:GLY:O	1:A:36:HIS:C	2.60	0.40
1:B:219:ILE:HG22	1:B:232:GLU:HA	2.03	0.40
1:B:333:TYR:CE2	1:B:335:TRP:HE3	2.39	0.40
1:B:97:ILE:CG2	1:B:340:ILE:HG21	2.52	0.40
1:D:244:PHE:C	1:D:246:PRO:HD3	2.41	0.40
1:D:35:GLY:O	1:D:36:HIS:C	2.60	0.40
1:D:429:ARG:CG	1:E:221:ILE:HG22	103.58	0.40
1:E:223:GLN:HB3	1:E:226:ARG:O	2.22	0.40
1:E:333:TYR:CE2	1:E:335:TRP:HE3	2.40	0.40
1:E:35:GLY:O	1:E:36:HIS:C	2.60	0.40
1:F:102:HIS:NE2	1:3:290:HIS:HB3	155.21	0.40
1:F:316:ARG:HH22	1:T:98:ASN:ND2	162.84	0.40
1:F:377:ALA:HB2	1:3:311:TRP:CE3	161.24	0.40
1:F:377:ALA:HB2	1:Q:311:TRP:CE3	2.57	0.40
1:G:109:TRP:CE3	1:G:109:TRP:HA	2.56	0.40
1:G:97:ILE:CG2	1:G:340:ILE:HG21	2.52	0.40
1:G:381:TRP:CE3	1:G:384:GLY:HA3	2.57	0.40
1:G:396:GLN:OE1	1:G:396:GLN:N	2.55	0.40
1:H:284:ARG:CG	1:H:284:ARG:O	2.70	0.40
1:H:450:PRO:HG2	1:H:451:TRP:CD2	2.57	0.40
1:H:511:TRP:HE1	1:I:173:LEU:CD1	2.29	0.40
1:I:102:HIS:HE1	1:I:104:LYS:CE	2.35	0.40
1:I:145:ILE:HG23	1:I:510:PHE:CD2	2.56	0.40
1:I:257:ARG:HG2	1:I:37:SER:CA	112.35	0.40
1:I:35:GLY:O	1:I:36:HIS:C	2.60	0.40
1:I:290:HIS:HB3	1:J:102:HIS:NE2	64.40	0.40
1:J:205:LYS:HE3	1:J:205:LYS:HB2	1.91	0.40
1:J:376:LYS:HA	1:J:395:TRP:HA	2.03	0.40
1:K:376:LYS:HA	1:K:395:TRP:HA	2.04	0.40
1:K:377:ALA:HB2	1:7:311:TRP:CE3	2.57	0.40
1:K:97:ILE:CG2	1:K:340:ILE:HG21	2.52	0.40
1:L:333:TYR:CE2	1:L:335:TRP:HE3	2.39	0.40
1:L:97:ILE:CG2	1:L:340:ILE:HG21	2.52	0.40
1:J:311:TRP:CE3	1:L:377:ALA:HB2	2.57	0.40
1:M:263:GLU:HA	1:M:264:SER:HA	1.76	0.40
1:M:284:ARG:CG	1:M:284:ARG:O	2.70	0.40
1:M:377:ALA:HB2	1:1:311:TRP:CE3	2.57	0.40
1:N:333:TYR:CE2	1:N:335:TRP:HE3	2.39	0.40
1:O:97:ILE:CG2	1:O:340:ILE:HG21	2.52	0.40
1:N:311:TRP:CE3	1:O:377:ALA:HB2	55.20	0.40
1:P:376:LYS:HA	1:P:395:TRP:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:511:TRP:HE1	1:Q:173:LEU:CD1	2.30	0.40
1:Q:97:ILE:CG2	1:Q:340:ILE:HG21	2.52	0.40
1:Q:376:LYS:HA	1:Q:395:TRP:HA	2.04	0.40
1:R:223:GLN:HB3	1:R:226:ARG:O	2.22	0.40
1:R:374:THR:OG1	1:R:396:GLN:O	2.34	0.40
1:R:97:ILE:CG2	1:R:340:ILE:HG21	2.52	0.40
1:S:381:TRP:CE3	1:S:384:GLY:HA3	2.57	0.40
1:T:145:ILE:HG23	1:T:510:PHE:CD2	2.56	0.40
1:T:311:TRP:CE3	1:3:377:ALA:HB2	2.57	0.40
1:T:35:GLY:O	1:T:36:HIS:C	2.60	0.40
1:U:381:TRP:CE3	1:U:384:GLY:HA3	2.57	0.40
1:U:84:LEU:HD23	1:U:84:LEU:HA	1.90	0.40
1:V:62:ARG:NH1	1:V:119:VAL:HA	2.36	0.40
1:V:561:ARG:HA	1:V:561:ARG:HD3	1.88	0.40
1:W:366:GLY:HA2	1:W:367:THR:HA	1.76	0.40
1:W:561:ARG:HA	1:W:561:ARG:HD3	1.88	0.40
1:W:97:ILE:CG2	1:W:340:ILE:HG21	2.52	0.40
1:X:284:ARG:O	1:X:284:ARG:CG	2.70	0.40
1:Y:102:HIS:HE1	1:Y:104:LYS:CE	2.35	0.40
1:Y:35:GLY:O	1:Y:36:HIS:C	2.60	0.40
1:O:173:LEU:CD1	1:Y:511:TRP:HE1	173.20	0.40
1:Y:561:ARG:HA	1:Y:561:ARG:HD3	1.88	0.40
1:Z:102:HIS:HE1	1:Z:104:LYS:CE	2.35	0.40
1:Z:223:GLN:HB3	1:Z:226:ARG:O	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	0	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51 85

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	2	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	3	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	4	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	5	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	6	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	7	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	A	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	B	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	C	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	D	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	E	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	F	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	G	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	H	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	I	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	J	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	K	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	L	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	M	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	N	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	O	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	P	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	Q	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	R	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	S	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	T	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	U	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	V	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	W	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	X	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	Z	533/537 (99%)	507 (95%)	25 (5%)	1 (0%)	51	85
1	a	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	b	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	c	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	d	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	e	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	f	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	g	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	h	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	i	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	j	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	k	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	l	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	m	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	n	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	o	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	p	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	q	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	r	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	s	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	t	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	u	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	v	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	w	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	x	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	y	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
1	z	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	51	85
All	All	31980/32220 (99%)	30479 (95%)	1441 (4%)	60 (0%)	54	85

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	193	ILE
1	H	193	ILE
1	S	193	ILE
1	V	193	ILE
1	l	193	ILE
1	c	193	ILE
1	h	193	ILE
1	j	193	ILE
1	o	193	ILE
1	r	193	ILE
1	x	193	ILE
1	z	193	ILE
1	A	193	ILE
1	B	193	ILE
1	D	193	ILE
1	E	193	ILE
1	F	193	ILE
1	G	193	ILE
1	I	193	ILE
1	J	193	ILE
1	K	193	ILE
1	L	193	ILE
1	M	193	ILE
1	N	193	ILE
1	O	193	ILE
1	P	193	ILE
1	Q	193	ILE
1	R	193	ILE
1	T	193	ILE
1	U	193	ILE
1	W	193	ILE
1	X	193	ILE
1	Y	193	ILE
1	Z	193	ILE
1	0	193	ILE
1	2	193	ILE
1	3	193	ILE
1	4	193	ILE
1	5	193	ILE
1	a	193	ILE
1	b	193	ILE
1	d	193	ILE
1	e	193	ILE

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Mol	Chain	Res	Type
1	f	193	ILE
1	g	193	ILE
1	i	193	ILE
1	k	193	ILE
1	l	193	ILE
1	m	193	ILE
1	n	193	ILE
1	p	193	ILE
1	q	193	ILE
1	s	193	ILE
1	t	193	ILE
1	u	193	ILE
1	v	193	ILE
1	w	193	ILE
1	y	193	ILE
1	6	193	ILE
1	7	193	ILE

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 PDB entries followed by that with respect to all EM entries.

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	0	464/466 (100%)	454 (98%)	10 (2%)	57	81
1	1	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	2	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	3	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	4	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	5	464/466 (100%)	454 (98%)	10 (2%)	57	81
1	6	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	7	464/466 (100%)	454 (98%)	10 (2%)	57	81
1	A	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	B	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	C	464/466 (100%)	454 (98%)	10 (2%)	57	81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles		
1	D	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	E	464/466 (100%)	454 (98%)	10 (2%)	57	81	
1	F	464/466 (100%)	454 (98%)	10 (2%)	57	81	
1	G	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	H	464/466 (100%)	454 (98%)	10 (2%)	57	81	
1	I	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	J	464/466 (100%)	454 (98%)	10 (2%)	57	81	
1	K	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	L	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	M	464/466 (100%)	454 (98%)	10 (2%)	57	81	
1	N	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	O	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	P	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	Q	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	R	464/466 (100%)	454 (98%)	10 (2%)	57	81	
1	S	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	T	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	U	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	V	464/466 (100%)	454 (98%)	10 (2%)	57	81	
1	W	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	X	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	Y	464/466 (100%)	454 (98%)	10 (2%)	57	81	
1	Z	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	a	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	b	464/466 (100%)	454 (98%)	10 (2%)	57	81	
1	c	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	d	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	e	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	f	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	g	464/466 (100%)	453 (98%)	11 (2%)	54	80	
1	h	464/466 (100%)	454 (98%)	10 (2%)	57	81	

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	i	464/466 (100%)	454 (98%)	10 (2%)	57	81
1	j	464/466 (100%)	454 (98%)	10 (2%)	57	81
1	k	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	l	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	m	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	n	464/466 (100%)	454 (98%)	10 (2%)	57	81
1	o	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	p	464/466 (100%)	454 (98%)	10 (2%)	57	81
1	q	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	r	464/466 (100%)	454 (98%)	10 (2%)	57	81
1	s	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	t	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	u	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	v	464/466 (100%)	454 (98%)	10 (2%)	57	81
1	w	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	x	464/466 (100%)	453 (98%)	11 (2%)	54	80
1	y	464/466 (100%)	454 (98%)	10 (2%)	57	81
1	z	464/466 (100%)	453 (98%)	11 (2%)	54	80
All	All	27840/27960 (100%)	27201 (98%)	639 (2%)	59	80

All (639) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	99	ASP
1	A	106	GLU
1	A	109	TRP
1	A	111	LEU
1	A	112	LEU
1	A	257	ARG
1	A	337	GLU
1	A	430	ASN
1	A	433	HIS
1	A	470	HIS
1	A	536	LEU
1	B	99	ASP
1	B	106	GLU

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Mol	Chain	Res	Type
1	B	109	TRP
1	B	111	LEU
1	B	112	LEU
1	B	257	ARG
1	B	337	GLU
1	B	430	ASN
1	B	433	HIS
1	B	470	HIS
1	B	536	LEU
1	C	99	ASP
1	C	106	GLU
1	C	111	LEU
1	C	112	LEU
1	C	257	ARG
1	C	337	GLU
1	C	430	ASN
1	C	433	HIS
1	C	470	HIS
1	C	536	LEU
1	D	99	ASP
1	D	106	GLU
1	D	109	TRP
1	D	111	LEU
1	D	112	LEU
1	D	257	ARG
1	D	337	GLU
1	D	430	ASN
1	D	433	HIS
1	D	470	HIS
1	D	536	LEU
1	E	99	ASP
1	E	106	GLU
1	E	111	LEU
1	E	112	LEU
1	E	257	ARG
1	E	337	GLU
1	E	430	ASN
1	E	433	HIS
1	E	470	HIS
1	E	536	LEU
1	F	99	ASP
1	F	106	GLU

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Mol	Chain	Res	Type
1	F	111	LEU
1	F	112	LEU
1	F	257	ARG
1	F	337	GLU
1	F	430	ASN
1	F	433	HIS
1	F	470	HIS
1	F	536	LEU
1	G	99	ASP
1	G	106	GLU
1	G	109	TRP
1	G	111	LEU
1	G	112	LEU
1	G	257	ARG
1	G	337	GLU
1	G	430	ASN
1	G	433	HIS
1	G	470	HIS
1	G	536	LEU
1	H	99	ASP
1	H	106	GLU
1	H	111	LEU
1	H	112	LEU
1	H	257	ARG
1	H	337	GLU
1	H	430	ASN
1	H	433	HIS
1	H	470	HIS
1	H	536	LEU
1	I	99	ASP
1	I	106	GLU
1	I	109	TRP
1	I	111	LEU
1	I	112	LEU
1	I	257	ARG
1	I	337	GLU
1	I	430	ASN
1	I	433	HIS
1	I	470	HIS
1	I	536	LEU
1	J	99	ASP
1	J	106	GLU

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Mol	Chain	Res	Type
1	J	111	LEU
1	J	112	LEU
1	J	257	ARG
1	J	337	GLU
1	J	430	ASN
1	J	433	HIS
1	J	470	HIS
1	J	536	LEU
1	K	99	ASP
1	K	106	GLU
1	K	109	TRP
1	K	111	LEU
1	K	112	LEU
1	K	257	ARG
1	K	337	GLU
1	K	430	ASN
1	K	433	HIS
1	K	470	HIS
1	K	536	LEU
1	L	99	ASP
1	L	106	GLU
1	L	109	TRP
1	L	111	LEU
1	L	112	LEU
1	L	257	ARG
1	L	337	GLU
1	L	430	ASN
1	L	433	HIS
1	L	470	HIS
1	L	536	LEU
1	M	99	ASP
1	M	106	GLU
1	M	111	LEU
1	M	112	LEU
1	M	257	ARG
1	M	337	GLU
1	M	430	ASN
1	M	433	HIS
1	M	470	HIS
1	M	536	LEU
1	N	99	ASP
1	N	106	GLU

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Mol	Chain	Res	Type
1	N	109	TRP
1	N	111	LEU
1	N	112	LEU
1	N	257	ARG
1	N	337	GLU
1	N	430	ASN
1	N	433	HIS
1	N	470	HIS
1	N	536	LEU
1	O	99	ASP
1	O	106	GLU
1	O	109	TRP
1	O	111	LEU
1	O	112	LEU
1	O	257	ARG
1	O	337	GLU
1	O	430	ASN
1	O	433	HIS
1	O	470	HIS
1	O	536	LEU
1	P	99	ASP
1	P	106	GLU
1	P	109	TRP
1	P	111	LEU
1	P	112	LEU
1	P	257	ARG
1	P	337	GLU
1	P	430	ASN
1	P	433	HIS
1	P	470	HIS
1	P	536	LEU
1	Q	99	ASP
1	Q	106	GLU
1	Q	109	TRP
1	Q	111	LEU
1	Q	112	LEU
1	Q	257	ARG
1	Q	337	GLU
1	Q	430	ASN
1	Q	433	HIS
1	Q	470	HIS
1	Q	536	LEU

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Mol	Chain	Res	Type
1	R	99	ASP
1	R	106	GLU
1	R	111	LEU
1	R	112	LEU
1	R	257	ARG
1	R	337	GLU
1	R	430	ASN
1	R	433	HIS
1	R	470	HIS
1	R	536	LEU
1	S	99	ASP
1	S	106	GLU
1	S	109	TRP
1	S	111	LEU
1	S	112	LEU
1	S	257	ARG
1	S	337	GLU
1	S	430	ASN
1	S	433	HIS
1	S	470	HIS
1	S	536	LEU
1	T	99	ASP
1	T	106	GLU
1	T	109	TRP
1	T	111	LEU
1	T	112	LEU
1	T	257	ARG
1	T	337	GLU
1	T	430	ASN
1	T	433	HIS
1	T	470	HIS
1	T	536	LEU
1	U	99	ASP
1	U	106	GLU
1	U	109	TRP
1	U	111	LEU
1	U	112	LEU
1	U	257	ARG
1	U	337	GLU
1	U	430	ASN
1	U	433	HIS
1	U	470	HIS

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Mol	Chain	Res	Type
1	U	536	LEU
1	V	99	ASP
1	V	106	GLU
1	V	111	LEU
1	V	112	LEU
1	V	257	ARG
1	V	337	GLU
1	V	430	ASN
1	V	433	HIS
1	V	470	HIS
1	V	536	LEU
1	W	99	ASP
1	W	106	GLU
1	W	109	TRP
1	W	111	LEU
1	W	112	LEU
1	W	257	ARG
1	W	337	GLU
1	W	430	ASN
1	W	433	HIS
1	W	470	HIS
1	W	536	LEU
1	X	99	ASP
1	X	106	GLU
1	X	109	TRP
1	X	111	LEU
1	X	112	LEU
1	X	257	ARG
1	X	337	GLU
1	X	430	ASN
1	X	433	HIS
1	X	470	HIS
1	X	536	LEU
1	Y	99	ASP
1	Y	106	GLU
1	Y	111	LEU
1	Y	112	LEU
1	Y	257	ARG
1	Y	337	GLU
1	Y	430	ASN
1	Y	433	HIS
1	Y	470	HIS

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Mol	Chain	Res	Type
1	Y	536	LEU
1	Z	99	ASP
1	Z	106	GLU
1	Z	109	TRP
1	Z	111	LEU
1	Z	112	LEU
1	Z	257	ARG
1	Z	337	GLU
1	Z	430	ASN
1	Z	433	HIS
1	Z	470	HIS
1	Z	536	LEU
1	0	99	ASP
1	0	106	GLU
1	0	111	LEU
1	0	112	LEU
1	0	257	ARG
1	0	337	GLU
1	0	430	ASN
1	0	433	HIS
1	0	470	HIS
1	0	536	LEU
1	1	99	ASP
1	1	106	GLU
1	1	109	TRP
1	1	111	LEU
1	1	112	LEU
1	1	257	ARG
1	1	337	GLU
1	1	430	ASN
1	1	433	HIS
1	1	470	HIS
1	1	536	LEU
1	2	99	ASP
1	2	106	GLU
1	2	109	TRP
1	2	111	LEU
1	2	112	LEU
1	2	257	ARG
1	2	337	GLU
1	2	430	ASN
1	2	433	HIS

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Mol	Chain	Res	Type
1	2	470	HIS
1	2	536	LEU
1	3	99	ASP
1	3	106	GLU
1	3	109	TRP
1	3	111	LEU
1	3	112	LEU
1	3	257	ARG
1	3	337	GLU
1	3	430	ASN
1	3	433	HIS
1	3	470	HIS
1	3	536	LEU
1	4	99	ASP
1	4	106	GLU
1	4	109	TRP
1	4	111	LEU
1	4	112	LEU
1	4	257	ARG
1	4	337	GLU
1	4	430	ASN
1	4	433	HIS
1	4	470	HIS
1	4	536	LEU
1	5	99	ASP
1	5	106	GLU
1	5	111	LEU
1	5	112	LEU
1	5	257	ARG
1	5	337	GLU
1	5	430	ASN
1	5	433	HIS
1	5	470	HIS
1	5	536	LEU
1	a	99	ASP
1	a	106	GLU
1	a	109	TRP
1	a	111	LEU
1	a	112	LEU
1	a	257	ARG
1	a	337	GLU
1	a	430	ASN

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Mol	Chain	Res	Type
1	a	433	HIS
1	a	470	HIS
1	a	536	LEU
1	b	99	ASP
1	b	106	GLU
1	b	111	LEU
1	b	112	LEU
1	b	257	ARG
1	b	337	GLU
1	b	430	ASN
1	b	433	HIS
1	b	470	HIS
1	b	536	LEU
1	c	99	ASP
1	c	106	GLU
1	c	109	TRP
1	c	111	LEU
1	c	112	LEU
1	c	257	ARG
1	c	337	GLU
1	c	430	ASN
1	c	433	HIS
1	c	470	HIS
1	c	536	LEU
1	d	99	ASP
1	d	106	GLU
1	d	109	TRP
1	d	111	LEU
1	d	112	LEU
1	d	257	ARG
1	d	337	GLU
1	d	430	ASN
1	d	433	HIS
1	d	470	HIS
1	d	536	LEU
1	e	99	ASP
1	e	106	GLU
1	e	109	TRP
1	e	111	LEU
1	e	112	LEU
1	e	257	ARG
1	e	337	GLU

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Mol	Chain	Res	Type
1	e	430	ASN
1	e	433	HIS
1	e	470	HIS
1	e	536	LEU
1	f	99	ASP
1	f	106	GLU
1	f	109	TRP
1	f	111	LEU
1	f	112	LEU
1	f	257	ARG
1	f	337	GLU
1	f	430	ASN
1	f	433	HIS
1	f	470	HIS
1	f	536	LEU
1	g	99	ASP
1	g	106	GLU
1	g	109	TRP
1	g	111	LEU
1	g	112	LEU
1	g	257	ARG
1	g	337	GLU
1	g	430	ASN
1	g	433	HIS
1	g	470	HIS
1	g	536	LEU
1	h	99	ASP
1	h	106	GLU
1	h	111	LEU
1	h	112	LEU
1	h	257	ARG
1	h	337	GLU
1	h	430	ASN
1	h	433	HIS
1	h	470	HIS
1	h	536	LEU
1	i	99	ASP
1	i	106	GLU
1	i	111	LEU
1	i	112	LEU
1	i	257	ARG
1	i	337	GLU

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Mol	Chain	Res	Type
1	i	430	ASN
1	i	433	HIS
1	i	470	HIS
1	i	536	LEU
1	j	99	ASP
1	j	106	GLU
1	j	111	LEU
1	j	112	LEU
1	j	257	ARG
1	j	337	GLU
1	j	430	ASN
1	j	433	HIS
1	j	470	HIS
1	j	536	LEU
1	k	99	ASP
1	k	106	GLU
1	k	109	TRP
1	k	111	LEU
1	k	112	LEU
1	k	257	ARG
1	k	337	GLU
1	k	430	ASN
1	k	433	HIS
1	k	470	HIS
1	k	536	LEU
1	l	99	ASP
1	l	106	GLU
1	l	109	TRP
1	l	111	LEU
1	l	112	LEU
1	l	257	ARG
1	l	337	GLU
1	l	430	ASN
1	l	433	HIS
1	l	470	HIS
1	l	536	LEU
1	m	99	ASP
1	m	106	GLU
1	m	109	TRP
1	m	111	LEU
1	m	112	LEU
1	m	257	ARG

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Mol	Chain	Res	Type
1	m	337	GLU
1	m	430	ASN
1	m	433	HIS
1	m	470	HIS
1	m	536	LEU
1	n	99	ASP
1	n	106	GLU
1	n	111	LEU
1	n	112	LEU
1	n	257	ARG
1	n	337	GLU
1	n	430	ASN
1	n	433	HIS
1	n	470	HIS
1	n	536	LEU
1	o	99	ASP
1	o	106	GLU
1	o	109	TRP
1	o	111	LEU
1	o	112	LEU
1	o	257	ARG
1	o	337	GLU
1	o	430	ASN
1	o	433	HIS
1	o	470	HIS
1	o	536	LEU
1	p	99	ASP
1	p	106	GLU
1	p	111	LEU
1	p	112	LEU
1	p	257	ARG
1	p	337	GLU
1	p	430	ASN
1	p	433	HIS
1	p	470	HIS
1	p	536	LEU
1	q	99	ASP
1	q	106	GLU
1	q	109	TRP
1	q	111	LEU
1	q	112	LEU
1	q	257	ARG

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Mol	Chain	Res	Type
1	q	337	GLU
1	q	430	ASN
1	q	433	HIS
1	q	470	HIS
1	q	536	LEU
1	r	99	ASP
1	r	106	GLU
1	r	111	LEU
1	r	112	LEU
1	r	257	ARG
1	r	337	GLU
1	r	430	ASN
1	r	433	HIS
1	r	470	HIS
1	r	536	LEU
1	s	99	ASP
1	s	106	GLU
1	s	109	TRP
1	s	111	LEU
1	s	112	LEU
1	s	257	ARG
1	s	337	GLU
1	s	430	ASN
1	s	433	HIS
1	s	470	HIS
1	s	536	LEU
1	t	99	ASP
1	t	106	GLU
1	t	109	TRP
1	t	111	LEU
1	t	112	LEU
1	t	257	ARG
1	t	337	GLU
1	t	430	ASN
1	t	433	HIS
1	t	470	HIS
1	t	536	LEU
1	u	99	ASP
1	u	106	GLU
1	u	109	TRP
1	u	111	LEU
1	u	112	LEU

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Mol	Chain	Res	Type
1	u	257	ARG
1	u	337	GLU
1	u	430	ASN
1	u	433	HIS
1	u	470	HIS
1	u	536	LEU
1	v	99	ASP
1	v	106	GLU
1	v	111	LEU
1	v	112	LEU
1	v	257	ARG
1	v	337	GLU
1	v	430	ASN
1	v	433	HIS
1	v	470	HIS
1	v	536	LEU
1	w	99	ASP
1	w	106	GLU
1	w	109	TRP
1	w	111	LEU
1	w	112	LEU
1	w	257	ARG
1	w	337	GLU
1	w	430	ASN
1	w	433	HIS
1	w	470	HIS
1	w	536	LEU
1	x	99	ASP
1	x	106	GLU
1	x	109	TRP
1	x	111	LEU
1	x	112	LEU
1	x	257	ARG
1	x	337	GLU
1	x	430	ASN
1	x	433	HIS
1	x	470	HIS
1	x	536	LEU
1	y	99	ASP
1	y	106	GLU
1	y	111	LEU
1	y	112	LEU

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Mol	Chain	Res	Type
1	y	257	ARG
1	y	337	GLU
1	y	430	ASN
1	y	433	HIS
1	y	470	HIS
1	y	536	LEU
1	z	99	ASP
1	z	106	GLU
1	z	109	TRP
1	z	111	LEU
1	z	112	LEU
1	z	257	ARG
1	z	337	GLU
1	z	430	ASN
1	z	433	HIS
1	z	470	HIS
1	z	536	LEU
1	6	99	ASP
1	6	106	GLU
1	6	109	TRP
1	6	111	LEU
1	6	112	LEU
1	6	257	ARG
1	6	337	GLU
1	6	430	ASN
1	6	433	HIS
1	6	470	HIS
1	6	536	LEU
1	7	99	ASP
1	7	106	GLU
1	7	111	LEU
1	7	112	LEU
1	7	257	ARG
1	7	337	GLU
1	7	430	ASN
1	7	433	HIS
1	7	470	HIS
1	7	536	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (892) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	36	HIS
1	A	59	HIS
1	A	98	ASN
1	A	127	GLN
1	A	165	GLN
1	A	212	HIS
1	A	281	GLN
1	A	290	HIS
1	A	328	ASN
1	A	330	HIS
1	A	371	GLN
1	A	398	ASN
1	A	404	GLN
1	A	411	ASN
1	A	463	HIS
1	A	541	HIS
1	B	36	HIS
1	B	59	HIS
1	B	98	ASN
1	B	102	HIS
1	B	127	GLN
1	B	165	GLN
1	B	212	HIS
1	B	281	GLN
1	B	290	HIS
1	B	328	ASN
1	B	371	GLN
1	B	398	ASN
1	B	404	GLN
1	B	411	ASN
1	B	541	HIS
1	C	36	HIS
1	C	59	HIS
1	C	98	ASN
1	C	102	HIS
1	C	127	GLN
1	C	165	GLN
1	C	212	HIS
1	C	281	GLN
1	C	290	HIS
1	C	328	ASN
1	C	371	GLN
1	C	398	ASN

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Mol	Chain	Res	Type
1	C	404	GLN
1	C	411	ASN
1	C	463	HIS
1	C	541	HIS
1	D	36	HIS
1	D	59	HIS
1	D	98	ASN
1	D	127	GLN
1	D	165	GLN
1	D	212	HIS
1	D	281	GLN
1	D	290	HIS
1	D	328	ASN
1	D	371	GLN
1	D	398	ASN
1	D	404	GLN
1	D	411	ASN
1	D	463	HIS
1	D	541	HIS
1	E	36	HIS
1	E	59	HIS
1	E	98	ASN
1	E	102	HIS
1	E	127	GLN
1	E	165	GLN
1	E	212	HIS
1	E	281	GLN
1	E	290	HIS
1	E	328	ASN
1	E	371	GLN
1	E	398	ASN
1	E	404	GLN
1	E	411	ASN
1	E	541	HIS
1	F	36	HIS
1	F	59	HIS
1	F	98	ASN
1	F	127	GLN
1	F	165	GLN
1	F	212	HIS
1	F	281	GLN
1	F	290	HIS

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Mol	Chain	Res	Type
1	F	328	ASN
1	F	371	GLN
1	F	398	ASN
1	F	404	GLN
1	F	411	ASN
1	F	541	HIS
1	G	36	HIS
1	G	59	HIS
1	G	98	ASN
1	G	102	HIS
1	G	127	GLN
1	G	165	GLN
1	G	212	HIS
1	G	281	GLN
1	G	290	HIS
1	G	328	ASN
1	G	371	GLN
1	G	398	ASN
1	G	404	GLN
1	G	411	ASN
1	G	463	HIS
1	G	541	HIS
1	H	36	HIS
1	H	59	HIS
1	H	98	ASN
1	H	127	GLN
1	H	165	GLN
1	H	212	HIS
1	H	281	GLN
1	H	290	HIS
1	H	328	ASN
1	H	371	GLN
1	H	398	ASN
1	H	404	GLN
1	H	411	ASN
1	H	463	HIS
1	H	541	HIS
1	I	36	HIS
1	I	59	HIS
1	I	98	ASN
1	I	127	GLN
1	I	165	GLN

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Mol	Chain	Res	Type
1	I	212	HIS
1	I	281	GLN
1	I	290	HIS
1	I	328	ASN
1	I	371	GLN
1	I	398	ASN
1	I	404	GLN
1	I	411	ASN
1	I	463	HIS
1	I	541	HIS
1	J	36	HIS
1	J	59	HIS
1	J	98	ASN
1	J	127	GLN
1	J	165	GLN
1	J	212	HIS
1	J	281	GLN
1	J	290	HIS
1	J	328	ASN
1	J	371	GLN
1	J	398	ASN
1	J	404	GLN
1	J	411	ASN
1	J	541	HIS
1	K	36	HIS
1	K	59	HIS
1	K	98	ASN
1	K	127	GLN
1	K	165	GLN
1	K	212	HIS
1	K	281	GLN
1	K	290	HIS
1	K	328	ASN
1	K	371	GLN
1	K	398	ASN
1	K	404	GLN
1	K	411	ASN
1	K	463	HIS
1	K	541	HIS
1	L	36	HIS
1	L	59	HIS
1	L	98	ASN

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Mol	Chain	Res	Type
1	L	127	GLN
1	L	165	GLN
1	L	212	HIS
1	L	281	GLN
1	L	290	HIS
1	L	328	ASN
1	L	371	GLN
1	L	398	ASN
1	L	404	GLN
1	L	411	ASN
1	L	541	HIS
1	M	36	HIS
1	M	59	HIS
1	M	98	ASN
1	M	127	GLN
1	M	165	GLN
1	M	212	HIS
1	M	281	GLN
1	M	290	HIS
1	M	328	ASN
1	M	371	GLN
1	M	398	ASN
1	M	404	GLN
1	M	411	ASN
1	M	463	HIS
1	M	541	HIS
1	N	36	HIS
1	N	59	HIS
1	N	98	ASN
1	N	102	HIS
1	N	127	GLN
1	N	165	GLN
1	N	212	HIS
1	N	281	GLN
1	N	290	HIS
1	N	328	ASN
1	N	371	GLN
1	N	398	ASN
1	N	404	GLN
1	N	411	ASN
1	N	463	HIS
1	N	541	HIS

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Mol	Chain	Res	Type
1	O	36	HIS
1	O	59	HIS
1	O	98	ASN
1	O	102	HIS
1	O	127	GLN
1	O	165	GLN
1	O	212	HIS
1	O	281	GLN
1	O	290	HIS
1	O	328	ASN
1	O	371	GLN
1	O	398	ASN
1	O	404	GLN
1	O	411	ASN
1	O	541	HIS
1	P	36	HIS
1	P	59	HIS
1	P	98	ASN
1	P	127	GLN
1	P	165	GLN
1	P	212	HIS
1	P	281	GLN
1	P	290	HIS
1	P	328	ASN
1	P	371	GLN
1	P	398	ASN
1	P	404	GLN
1	P	411	ASN
1	P	463	HIS
1	P	541	HIS
1	Q	36	HIS
1	Q	59	HIS
1	Q	98	ASN
1	Q	102	HIS
1	Q	127	GLN
1	Q	147	ASN
1	Q	165	GLN
1	Q	212	HIS
1	Q	281	GLN
1	Q	290	HIS
1	Q	328	ASN
1	Q	371	GLN

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Mol	Chain	Res	Type
1	Q	398	ASN
1	Q	404	GLN
1	Q	411	ASN
1	Q	541	HIS
1	R	36	HIS
1	R	59	HIS
1	R	98	ASN
1	R	127	GLN
1	R	165	GLN
1	R	212	HIS
1	R	281	GLN
1	R	290	HIS
1	R	328	ASN
1	R	371	GLN
1	R	398	ASN
1	R	404	GLN
1	R	411	ASN
1	R	541	HIS
1	S	36	HIS
1	S	59	HIS
1	S	98	ASN
1	S	127	GLN
1	S	165	GLN
1	S	212	HIS
1	S	281	GLN
1	S	290	HIS
1	S	328	ASN
1	S	371	GLN
1	S	398	ASN
1	S	404	GLN
1	S	411	ASN
1	S	541	HIS
1	T	36	HIS
1	T	59	HIS
1	T	98	ASN
1	T	127	GLN
1	T	165	GLN
1	T	212	HIS
1	T	281	GLN
1	T	290	HIS
1	T	328	ASN
1	T	371	GLN

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Mol	Chain	Res	Type
1	T	398	ASN
1	T	404	GLN
1	T	411	ASN
1	T	541	HIS
1	U	36	HIS
1	U	59	HIS
1	U	98	ASN
1	U	127	GLN
1	U	165	GLN
1	U	212	HIS
1	U	281	GLN
1	U	290	HIS
1	U	328	ASN
1	U	371	GLN
1	U	398	ASN
1	U	404	GLN
1	U	411	ASN
1	U	541	HIS
1	V	36	HIS
1	V	59	HIS
1	V	98	ASN
1	V	127	GLN
1	V	165	GLN
1	V	212	HIS
1	V	281	GLN
1	V	290	HIS
1	V	328	ASN
1	V	371	GLN
1	V	398	ASN
1	V	404	GLN
1	V	411	ASN
1	V	541	HIS
1	W	36	HIS
1	W	59	HIS
1	W	98	ASN
1	W	113	HIS
1	W	127	GLN
1	W	165	GLN
1	W	212	HIS
1	W	281	GLN
1	W	290	HIS
1	W	328	ASN

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Mol	Chain	Res	Type
1	W	371	GLN
1	W	398	ASN
1	W	404	GLN
1	W	411	ASN
1	W	463	HIS
1	W	541	HIS
1	X	36	HIS
1	X	59	HIS
1	X	98	ASN
1	X	127	GLN
1	X	165	GLN
1	X	212	HIS
1	X	281	GLN
1	X	290	HIS
1	X	328	ASN
1	X	371	GLN
1	X	398	ASN
1	X	404	GLN
1	X	411	ASN
1	X	541	HIS
1	Y	36	HIS
1	Y	59	HIS
1	Y	98	ASN
1	Y	127	GLN
1	Y	165	GLN
1	Y	212	HIS
1	Y	281	GLN
1	Y	290	HIS
1	Y	328	ASN
1	Y	371	GLN
1	Y	398	ASN
1	Y	404	GLN
1	Y	411	ASN
1	Y	463	HIS
1	Y	541	HIS
1	Z	36	HIS
1	Z	59	HIS
1	Z	98	ASN
1	Z	127	GLN
1	Z	165	GLN
1	Z	212	HIS
1	Z	281	GLN

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Mol	Chain	Res	Type
1	Z	290	HIS
1	Z	328	ASN
1	Z	371	GLN
1	Z	398	ASN
1	Z	404	GLN
1	Z	411	ASN
1	Z	463	HIS
1	Z	541	HIS
1	0	36	HIS
1	0	59	HIS
1	0	98	ASN
1	0	127	GLN
1	0	165	GLN
1	0	212	HIS
1	0	281	GLN
1	0	290	HIS
1	0	328	ASN
1	0	371	GLN
1	0	398	ASN
1	0	404	GLN
1	0	411	ASN
1	0	463	HIS
1	0	541	HIS
1	1	36	HIS
1	1	59	HIS
1	1	98	ASN
1	1	127	GLN
1	1	165	GLN
1	1	212	HIS
1	1	281	GLN
1	1	290	HIS
1	1	328	ASN
1	1	371	GLN
1	1	398	ASN
1	1	404	GLN
1	1	411	ASN
1	1	463	HIS
1	1	541	HIS
1	2	36	HIS
1	2	59	HIS
1	2	98	ASN
1	2	127	GLN

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Mol	Chain	Res	Type
1	2	165	GLN
1	2	212	HIS
1	2	281	GLN
1	2	290	HIS
1	2	328	ASN
1	2	371	GLN
1	2	398	ASN
1	2	404	GLN
1	2	411	ASN
1	2	463	HIS
1	2	541	HIS
1	3	36	HIS
1	3	59	HIS
1	3	98	ASN
1	3	127	GLN
1	3	165	GLN
1	3	212	HIS
1	3	281	GLN
1	3	290	HIS
1	3	328	ASN
1	3	371	GLN
1	3	398	ASN
1	3	404	GLN
1	3	411	ASN
1	3	541	HIS
1	4	36	HIS
1	4	59	HIS
1	4	98	ASN
1	4	127	GLN
1	4	165	GLN
1	4	212	HIS
1	4	281	GLN
1	4	290	HIS
1	4	328	ASN
1	4	371	GLN
1	4	398	ASN
1	4	404	GLN
1	4	411	ASN
1	4	541	HIS
1	5	36	HIS
1	5	59	HIS
1	5	98	ASN

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Mol	Chain	Res	Type
1	5	127	GLN
1	5	165	GLN
1	5	212	HIS
1	5	281	GLN
1	5	290	HIS
1	5	328	ASN
1	5	330	HIS
1	5	371	GLN
1	5	398	ASN
1	5	404	GLN
1	5	411	ASN
1	5	463	HIS
1	5	541	HIS
1	a	36	HIS
1	a	59	HIS
1	a	98	ASN
1	a	102	HIS
1	a	127	GLN
1	a	165	GLN
1	a	212	HIS
1	a	281	GLN
1	a	290	HIS
1	a	328	ASN
1	a	371	GLN
1	a	398	ASN
1	a	404	GLN
1	a	411	ASN
1	a	463	HIS
1	a	541	HIS
1	b	36	HIS
1	b	59	HIS
1	b	98	ASN
1	b	102	HIS
1	b	127	GLN
1	b	165	GLN
1	b	212	HIS
1	b	281	GLN
1	b	290	HIS
1	b	328	ASN
1	b	330	HIS
1	b	371	GLN
1	b	398	ASN

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Mol	Chain	Res	Type
1	b	404	GLN
1	b	411	ASN
1	b	463	HIS
1	b	541	HIS
1	c	36	HIS
1	c	59	HIS
1	c	98	ASN
1	c	127	GLN
1	c	165	GLN
1	c	212	HIS
1	c	281	GLN
1	c	290	HIS
1	c	328	ASN
1	c	371	GLN
1	c	398	ASN
1	c	404	GLN
1	c	411	ASN
1	c	463	HIS
1	c	541	HIS
1	d	36	HIS
1	d	59	HIS
1	d	98	ASN
1	d	127	GLN
1	d	165	GLN
1	d	212	HIS
1	d	281	GLN
1	d	290	HIS
1	d	328	ASN
1	d	371	GLN
1	d	398	ASN
1	d	404	GLN
1	d	411	ASN
1	d	463	HIS
1	d	541	HIS
1	e	36	HIS
1	e	59	HIS
1	e	98	ASN
1	e	102	HIS
1	e	127	GLN
1	e	165	GLN
1	e	212	HIS
1	e	281	GLN

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Mol	Chain	Res	Type
1	e	290	HIS
1	e	328	ASN
1	e	371	GLN
1	e	398	ASN
1	e	404	GLN
1	e	411	ASN
1	e	463	HIS
1	e	541	HIS
1	f	36	HIS
1	f	59	HIS
1	f	98	ASN
1	f	127	GLN
1	f	165	GLN
1	f	212	HIS
1	f	281	GLN
1	f	290	HIS
1	f	328	ASN
1	f	371	GLN
1	f	398	ASN
1	f	404	GLN
1	f	411	ASN
1	f	541	HIS
1	g	36	HIS
1	g	59	HIS
1	g	98	ASN
1	g	127	GLN
1	g	165	GLN
1	g	212	HIS
1	g	281	GLN
1	g	290	HIS
1	g	328	ASN
1	g	371	GLN
1	g	398	ASN
1	g	404	GLN
1	g	411	ASN
1	g	541	HIS
1	h	36	HIS
1	h	59	HIS
1	h	98	ASN
1	h	127	GLN
1	h	165	GLN
1	h	212	HIS

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Mol	Chain	Res	Type
1	h	281	GLN
1	h	290	HIS
1	h	328	ASN
1	h	371	GLN
1	h	398	ASN
1	h	404	GLN
1	h	411	ASN
1	h	541	HIS
1	i	36	HIS
1	i	59	HIS
1	i	98	ASN
1	i	127	GLN
1	i	165	GLN
1	i	212	HIS
1	i	281	GLN
1	i	290	HIS
1	i	328	ASN
1	i	371	GLN
1	i	398	ASN
1	i	404	GLN
1	i	411	ASN
1	i	463	HIS
1	i	541	HIS
1	j	36	HIS
1	j	59	HIS
1	j	98	ASN
1	j	127	GLN
1	j	165	GLN
1	j	212	HIS
1	j	281	GLN
1	j	290	HIS
1	j	328	ASN
1	j	371	GLN
1	j	398	ASN
1	j	404	GLN
1	j	411	ASN
1	j	463	HIS
1	j	541	HIS
1	k	36	HIS
1	k	59	HIS
1	k	98	ASN
1	k	102	HIS

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Mol	Chain	Res	Type
1	k	127	GLN
1	k	165	GLN
1	k	212	HIS
1	k	281	GLN
1	k	290	HIS
1	k	328	ASN
1	k	371	GLN
1	k	398	ASN
1	k	404	GLN
1	k	411	ASN
1	k	541	HIS
1	l	36	HIS
1	l	59	HIS
1	l	98	ASN
1	l	127	GLN
1	l	165	GLN
1	l	212	HIS
1	l	281	GLN
1	l	290	HIS
1	l	328	ASN
1	l	371	GLN
1	l	398	ASN
1	l	404	GLN
1	l	411	ASN
1	l	541	HIS
1	m	36	HIS
1	m	59	HIS
1	m	98	ASN
1	m	127	GLN
1	m	165	GLN
1	m	212	HIS
1	m	281	GLN
1	m	290	HIS
1	m	328	ASN
1	m	371	GLN
1	m	398	ASN
1	m	404	GLN
1	m	411	ASN
1	m	541	HIS
1	n	36	HIS
1	n	59	HIS
1	n	98	ASN

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Mol	Chain	Res	Type
1	n	127	GLN
1	n	147	ASN
1	n	165	GLN
1	n	212	HIS
1	n	281	GLN
1	n	290	HIS
1	n	328	ASN
1	n	371	GLN
1	n	398	ASN
1	n	404	GLN
1	n	411	ASN
1	n	541	HIS
1	o	36	HIS
1	o	59	HIS
1	o	98	ASN
1	o	127	GLN
1	o	165	GLN
1	o	212	HIS
1	o	281	GLN
1	o	290	HIS
1	o	328	ASN
1	o	371	GLN
1	o	398	ASN
1	o	404	GLN
1	o	411	ASN
1	o	541	HIS
1	p	36	HIS
1	p	59	HIS
1	p	98	ASN
1	p	102	HIS
1	p	127	GLN
1	p	165	GLN
1	p	212	HIS
1	p	281	GLN
1	p	290	HIS
1	p	328	ASN
1	p	371	GLN
1	p	398	ASN
1	p	404	GLN
1	p	411	ASN
1	p	541	HIS
1	q	36	HIS

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Mol	Chain	Res	Type
1	q	59	HIS
1	q	98	ASN
1	q	127	GLN
1	q	165	GLN
1	q	212	HIS
1	q	281	GLN
1	q	290	HIS
1	q	328	ASN
1	q	371	GLN
1	q	398	ASN
1	q	404	GLN
1	q	411	ASN
1	q	463	HIS
1	q	541	HIS
1	r	36	HIS
1	r	59	HIS
1	r	98	ASN
1	r	102	HIS
1	r	127	GLN
1	r	165	GLN
1	r	212	HIS
1	r	281	GLN
1	r	290	HIS
1	r	328	ASN
1	r	371	GLN
1	r	398	ASN
1	r	404	GLN
1	r	411	ASN
1	r	463	HIS
1	r	541	HIS
1	s	36	HIS
1	s	59	HIS
1	s	98	ASN
1	s	102	HIS
1	s	127	GLN
1	s	165	GLN
1	s	212	HIS
1	s	281	GLN
1	s	290	HIS
1	s	328	ASN
1	s	371	GLN
1	s	398	ASN

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Mol	Chain	Res	Type
1	s	404	GLN
1	s	411	ASN
1	s	463	HIS
1	s	541	HIS
1	t	36	HIS
1	t	59	HIS
1	t	98	ASN
1	t	102	HIS
1	t	127	GLN
1	t	165	GLN
1	t	212	HIS
1	t	281	GLN
1	t	290	HIS
1	t	328	ASN
1	t	371	GLN
1	t	398	ASN
1	t	404	GLN
1	t	411	ASN
1	t	541	HIS
1	u	36	HIS
1	u	59	HIS
1	u	98	ASN
1	u	127	GLN
1	u	165	GLN
1	u	212	HIS
1	u	281	GLN
1	u	290	HIS
1	u	328	ASN
1	u	371	GLN
1	u	398	ASN
1	u	404	GLN
1	u	411	ASN
1	u	541	HIS
1	v	36	HIS
1	v	59	HIS
1	v	98	ASN
1	v	127	GLN
1	v	165	GLN
1	v	212	HIS
1	v	281	GLN
1	v	290	HIS
1	v	328	ASN

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Mol	Chain	Res	Type
1	v	371	GLN
1	v	398	ASN
1	v	404	GLN
1	v	411	ASN
1	v	541	HIS
1	w	36	HIS
1	w	59	HIS
1	w	98	ASN
1	w	113	HIS
1	w	127	GLN
1	w	165	GLN
1	w	212	HIS
1	w	281	GLN
1	w	290	HIS
1	w	328	ASN
1	w	371	GLN
1	w	398	ASN
1	w	404	GLN
1	w	411	ASN
1	w	463	HIS
1	w	541	HIS
1	x	36	HIS
1	x	59	HIS
1	x	98	ASN
1	x	127	GLN
1	x	165	GLN
1	x	212	HIS
1	x	281	GLN
1	x	290	HIS
1	x	328	ASN
1	x	371	GLN
1	x	398	ASN
1	x	404	GLN
1	x	411	ASN
1	x	463	HIS
1	x	541	HIS
1	y	36	HIS
1	y	59	HIS
1	y	98	ASN
1	y	127	GLN
1	y	165	GLN
1	y	212	HIS

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Mol	Chain	Res	Type
1	y	281	GLN
1	y	290	HIS
1	y	328	ASN
1	y	371	GLN
1	y	398	ASN
1	y	404	GLN
1	y	411	ASN
1	y	541	HIS
1	z	36	HIS
1	z	59	HIS
1	z	98	ASN
1	z	127	GLN
1	z	165	GLN
1	z	212	HIS
1	z	281	GLN
1	z	290	HIS
1	z	328	ASN
1	z	371	GLN
1	z	398	ASN
1	z	404	GLN
1	z	411	ASN
1	z	541	HIS
1	6	36	HIS
1	6	59	HIS
1	6	98	ASN
1	6	127	GLN
1	6	165	GLN
1	6	212	HIS
1	6	281	GLN
1	6	290	HIS
1	6	328	ASN
1	6	371	GLN
1	6	398	ASN
1	6	404	GLN
1	6	411	ASN
1	6	541	HIS
1	7	36	HIS
1	7	59	HIS
1	7	98	ASN
1	7	127	GLN
1	7	165	GLN
1	7	212	HIS

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Mol	Chain	Res	Type
1	7	281	GLN
1	7	290	HIS
1	7	328	ASN
1	7	371	GLN
1	7	398	ASN
1	7	404	GLN
1	7	411	ASN
1	7	463	HIS
1	7	541	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.