



Full wwPDB EM Validation Report ⓘ

Nov 10, 2024 – 11:50 PM EST

PDB ID : 9E1B
EMDB ID : EMD-47388
Title : Structure of RyR1 in the open state in the presence of dyphylline
Authors : Miotto, M.C.; Marks, A.R.
Deposited on : 2024-10-21
Resolution : 4.49 Å (reported)
Based on initial model : 7TZC

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

EMDB validation analysis : 0.0.1.dev113
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

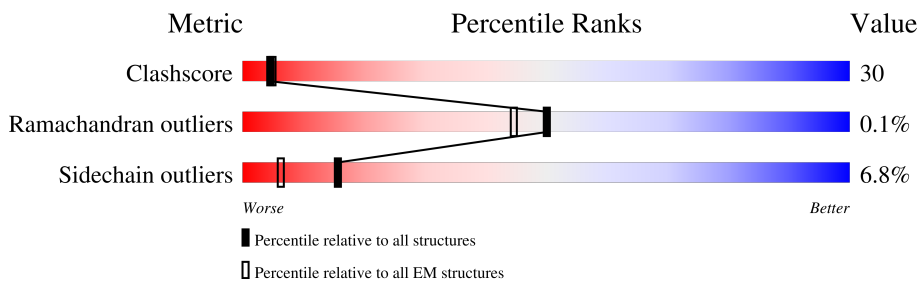
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.49 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	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	5037	57% (Poor fit) 39% (0 outliers), 45% (1 outlier), 13% (2+ outliers)
1	B	5037	57% (Poor fit) 39% (0 outliers), 45% (1 outlier), 13% (2+ outliers)
1	C	5037	57% (Poor fit) 39% (0 outliers), 45% (1 outlier), 13% (2+ outliers)
1	D	5037	57% (Poor fit) 39% (0 outliers), 45% (1 outlier), 13% (2+ outliers)
2	E	108	97% (Poor fit) 32% (0 outliers), 59% (1 outlier), 7% (2+ outliers)
2	F	108	97% (Poor fit) 37% (0 outliers), 56% (1 outlier), 6% (2+ outliers)
2	G	108	96% (Poor fit) 42% (0 outliers), 53% (1 outlier), 5% (2+ outliers)
2	H	108	96% (Poor fit) 42% (0 outliers), 49% (1 outlier), 8% (2+ outliers)

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 144128 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.

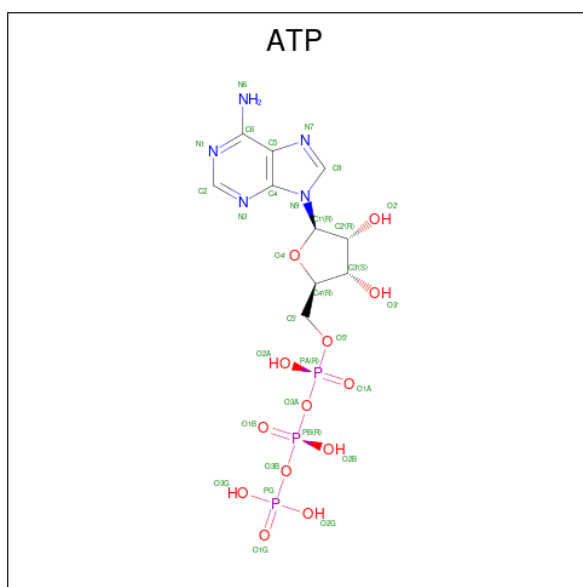
- Molecule 1 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		
1	B	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		
1	D	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		
1	C	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		

- Molecule 2 is a protein called Peptidyl-prolyl cis-trans isomerase FKBP1A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	E	107	Total	C	N	O	S	0	0
			831	527	146	154	4		
2	H	107	Total	C	N	O	S	0	0
			831	527	146	154	4		
2	G	107	Total	C	N	O	S	0	0
			831	527	146	154	4		
2	F	107	Total	C	N	O	S	0	0
			831	527	146	154	4		

- Molecule 3 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$).



Mol	Chain	Residues	Atoms					AltConf
3	A	1	Total	C	N	O	P	0
			31	10	5	13	3	
3	B	1	Total	C	N	O	P	0
			31	10	5	13	3	
3	D	1	Total	C	N	O	P	0
			31	10	5	13	3	
3	C	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
4	A	1	Total	Ca	0
			1	1	
4	B	1	Total	Ca	0
			1	1	
4	D	1	Total	Ca	0
			1	1	
4	C	1	Total	Ca	0
			1	1	

- Molecule 5 is ZINC ION (three-letter code: ZN) (formula: Zn).

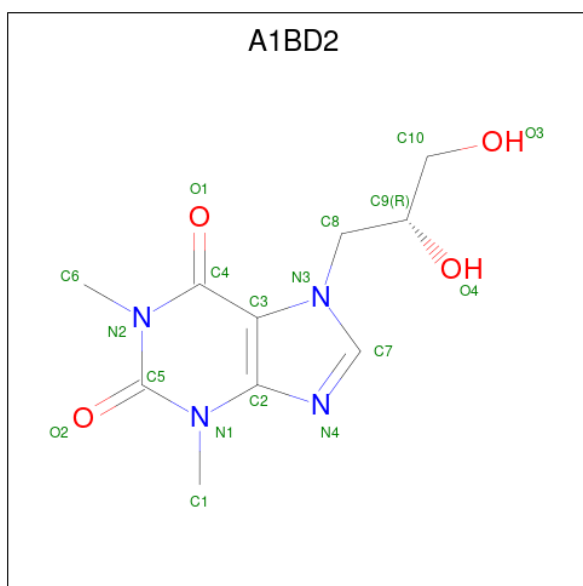
Mol	Chain	Residues	Atoms		AltConf
5	A	1	Total	Zn	0
			1	1	

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Mol	Chain	Residues	Atoms		AltConf
5	B	1	Total	Zn	0
			1	1	
5	D	1	Total	Zn	0
			1	1	
5	C	1	Total	Zn	0
			1	1	

- Molecule 6 is dyphylline (three-letter code: A1BD2) (formula: $C_{10}H_{14}N_4O_4$) (labeled as "Ligand of Interest" by depositor).

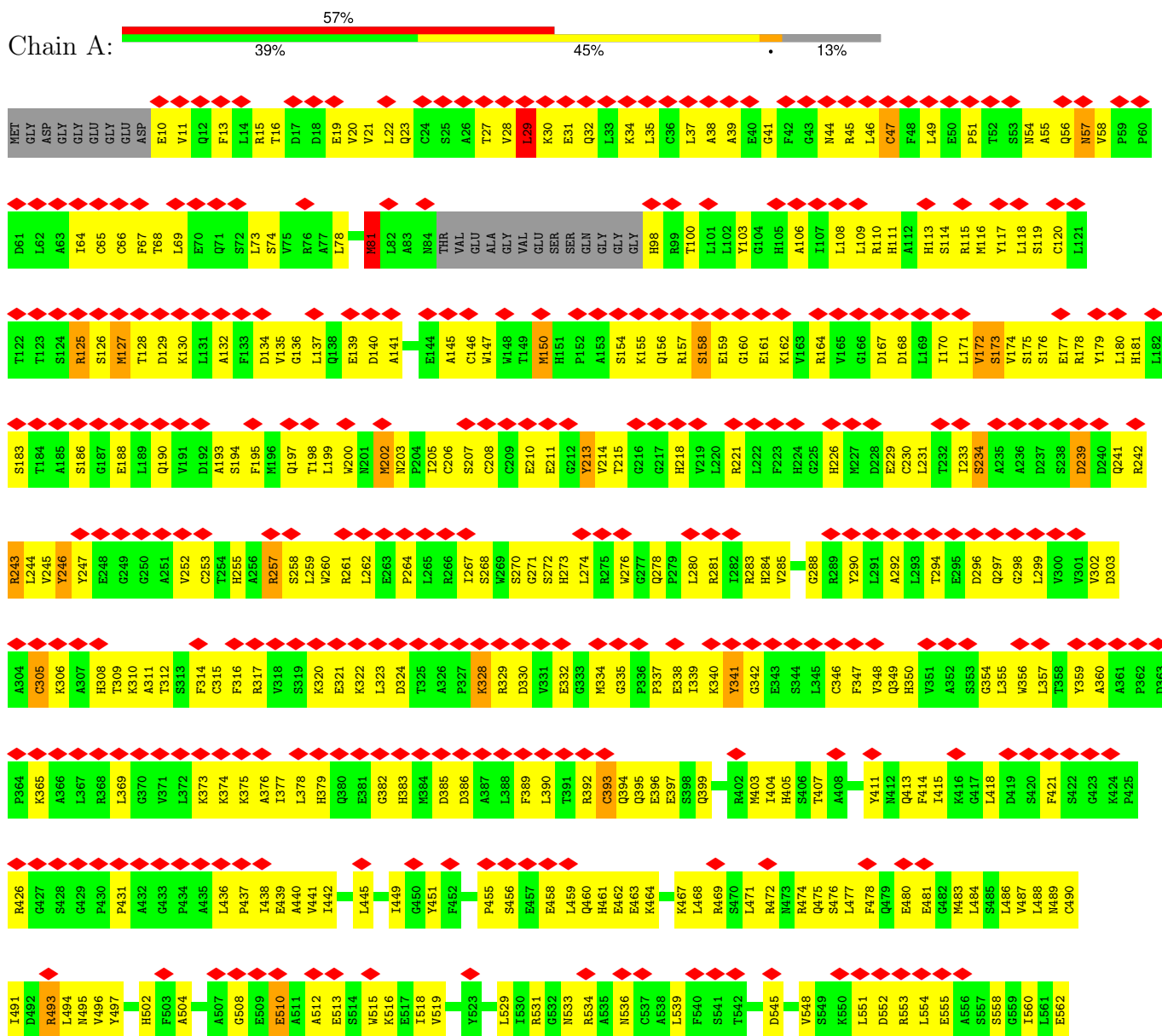


Mol	Chain	Residues	Atoms				AltConf
6	A	1	Total	C	N	O	0
			18	10	4	4	
6	B	1	Total	C	N	O	0
			18	10	4	4	
6	D	1	Total	C	N	O	0
			18	10	4	4	
6	C	1	Total	C	N	O	0
			18	10	4	4	

3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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.

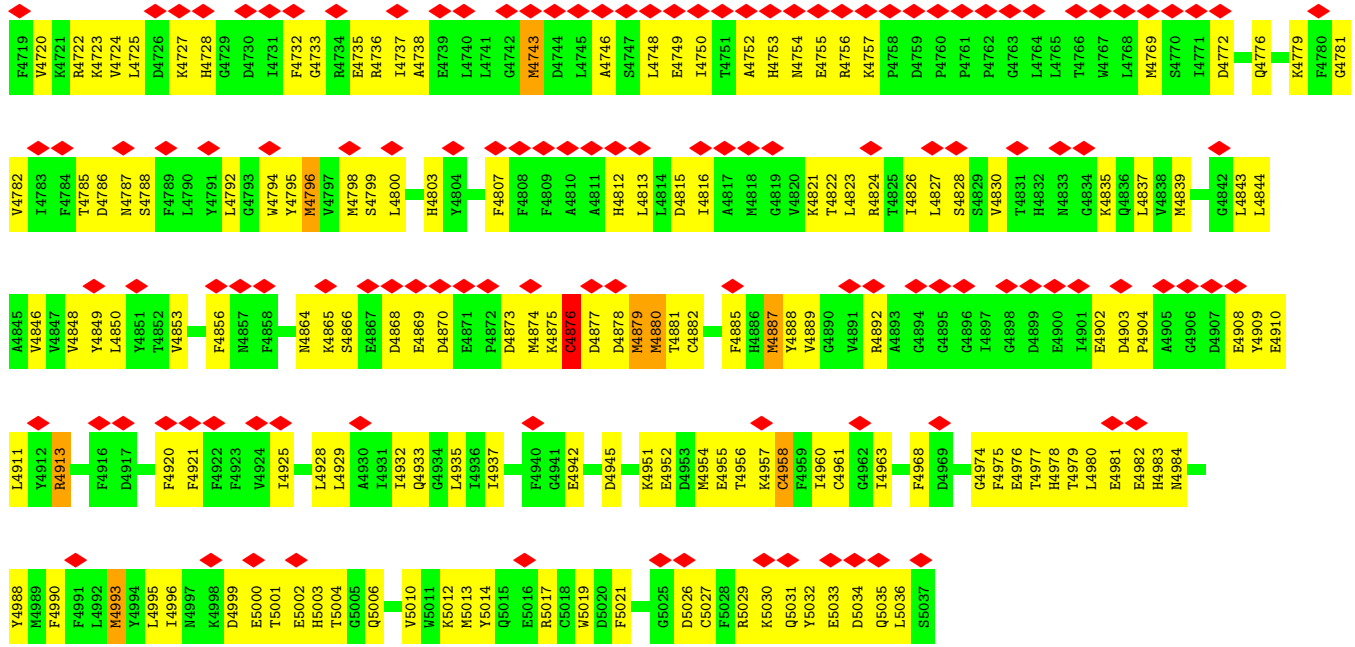
- Molecule 1: Ryanodine receptor 1



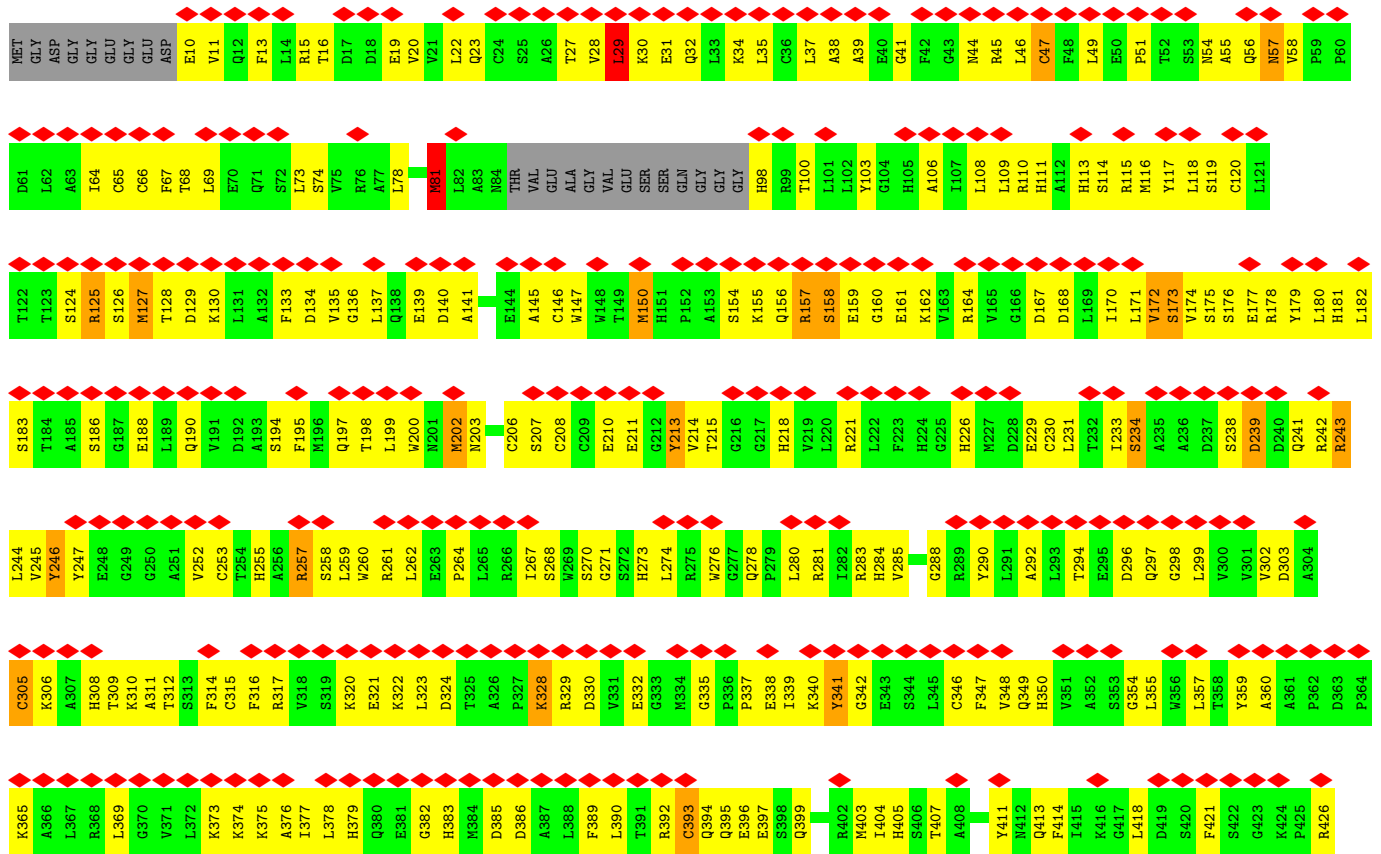
GLY	R1290	I1228	V1168	E1108	G1048	L988	E868	G807	V686	L626	V663
THR	L1291	M1229	L1169	L1109	Y1049	A989	R669	Y808	A887	P827	L564
ALA	S1292	M1230	M1170	R1110	G1050	E990	R670	A809	L688	G828	C566
LYS	L1293	Q1231	S1171	P1111	Y1051	M991	R671	P810	L689	R829	V667
GLU	P1294	R1232	D1172	V1113	M1052	H993	E872	C811	E690	E630	L568
THR	V1295	P1233	S1173	V1114	E1054	M994	K873	V752	G691	L631	I569
PRO	Q1296	T1236	G1174	L1115	P1055	N995	L874	P753	Y692	L632	E570
GLY	Q1299	T1237	S1175	L1116	P1056	W996	A875	P754	S693	L633	S571
THR	H1300	F1238	E1176	A1117	P1057	A997	E876	S756	P694	Q634	P572
PRO	F1301	T1177	D1178	D1118	D1057	R998	N877	F757	Y695	T635	E573
GLN	R1302	A1178	Q1058	E1119	Q1058	R1000	R878	R758	P696	L637	V574
VAL	C1303	F1179	E1059	L1120	E1059	R1001	H879	I759	G697	I638	N576
GLU	T1304	R1180	P1060	A1121	P1061	V1001	E880	G760	G698	N639	I677
ALA	ALA	E1181	A1002	Y1122	Q1062	A1002	L881	G761	G699	Y640	I578
GLY	GLY	I1182	Q1003	Y1123	G1004	Q1003	W882	C762	E700	V641	Q579
PRO	THR	E1183	G1004	F1124	V1063	G1004	A883	P763	G701	T642	E580
VAL	ARG	I1184	E1064	N1125	E1064	S1006	L884	V764	W702	S643	N581
ALA	ALA	G1185	M1065	G1126	N1065	S1006	T885	G765	G703	I644	H882
GLU	ALA	H1187	M1066	H1127	Q1066	Y1007	R886	G766	G704	R645	I583
ASN	ALA	G1187	S1067	R1128	S1067	S1008	L887	F767	N705	R646	I586
PRO	PRO	F1188	Q1068	G1129	R1068	A1009	Q889	F768	G706	P646	I587
GLU	LEU	F1189	W1069	Q1130	W1069	V1010	Q890	I648	G708	N647	S588
ALA	GLN	P1190	D1070	R1131	D1070	Q1011	G891	A770	G709	F649	L589
THR	PRO	V1191	R1071	H1133	R1071	D1012	W891	N771	D710	V650	D591
PRO	PRO	C1192	Y1072	L1134	Y1072	I1013	T892	L773	L711	G651	K592
GLU	ALA	S1193	G1135	G1135	G1135	P1014	Y893	D774	L712	R652	H593
ASN	ASP	L1194	S1136	S1136	I1074	A1015	G894	G775	S713	A653	G594
LYS	GLU	G1195	E1137	E1137	F1075	R1016	P895	L776	Y714	E654	R595
LYS	ALA	P1196	F1076	P1138	R1076	R1017	W896	F777	G715	E597	N596
ALA	ARG	G1197	A1077	F1139	A1077	M1018	R897	F778	G716	H598	K598
GLY	ALA	Q1198	E1078	G1140	E1078	P1019	R897	F779	V599	V599	V599
PHE	ALA	V1199	R1141	R1141	R1079	P1019	D898	P779	T857	L600	L600
LEU	GLU	G1200	P1142	P1142	S1080	L1021	D899	V780	Q658	D801	D801
PRO	PRO	H201	W1080	W1080	Y1081	V1022	N900	L719	Y659	V602	V602
ASP	PRO	L1202	Y1081	Y1081	Y1081	P1023	K901	S843	G660	L603	L603
LYS	LYS	M203	Q1144	Q1144	T1082	P1023	R902	S782	K661	C604	C604
LYS	TYR	L1204	S1145	S1145	V1083	Y1024	L903	F783	W662	S805	S805
ALA	GLU	L1204	G1146	G1146	Q1084	R1025	H904	S784	Y663	L606	L606
ALA	ASN	G1205	D1147	D1147	S1085	L1026	P905	A785	F664	C807	C807
LEU	LEU	Q1206	V1148	V1148	S1086	L1027	C906	G786	V666	M610	M610
MET	MET	D1207	V1149	V1149	R1087	D1028	L907	V787	V666	G611	G611
THR	THR	V1208	G1150	G1150	W1088	E1029	V908	K788	M667	V612	V612
GLN	ARG	S1209	C1151	C1151	Y1089	A1030	N909	R789	D668	A613	A613
ALA	ALA	S1209	M1152	M1152	F1090	T1031	F910	R790	D669	V614	V614
ALA	GLY	S1210	L1153	L1153	E1091	K1032	F910	F791	E670	V614	V614
GLY	TRP	L1211	D1154	D1154	F1092	R1033	H911	L792	V671	G615	G615
GLY	GLY	R1212	L1155	L1155	E1093	S1034	S812	L793	V672	S616	S616
ALA	ALA	F1213	T1156	T1156	E1093	S1034	S812	L793	V672	M617	M617
ALA	GLU	F1214	E1157	E1157	M1035	R1036	V855	G794	P673	L620	L620
PRO	PRO	A1215	M1158	M1158	M1036	R1036	V856	G795	F674	L620	L620
GLY	GLY	I1216	T1159	T1159	V1095	L1036	V856	G795	F674	T622	T622
LYS	LYS	C1217	V1159	V1159	T1097	D1037	R857	H796	L675	E623	E623
LYS	GLU	L1219	I1160	I1160	S1038	L1039	V859	G798	A677	E624	E624
GLU	GLU	Q1220	F1162	F1162	L1039	L1039	Q860	L737	Q678	M624	M624
ALA	ALA	E1221	T1163	T1163	C1040	C1040	Q860	L738	A679	L625	L625
ALA	ALA	F1222	L1164	L1164	Q1041	Q1041	I861	A739	A679		
GLY	GLY	G1223	N1165	N1165	A1042	A1042	V862	P740	H680		
LYS	LYS	E1224	G1166	G1166	V1043	V1043	L863	E741	T681		
LYS	LYS	P1225	E1167	E1167	R1044	R1044	P864	D742	L682		
GLY	GLY	F1226	A1105	A1105	T1045	T1045	P865	V743	V684		
ARG	ARG	A1227	R1106	R1106	L1046	L1046	H866	V744	V684		
ARG	ARG		P1107	P1107	D986	D986	L367	S745	G885		

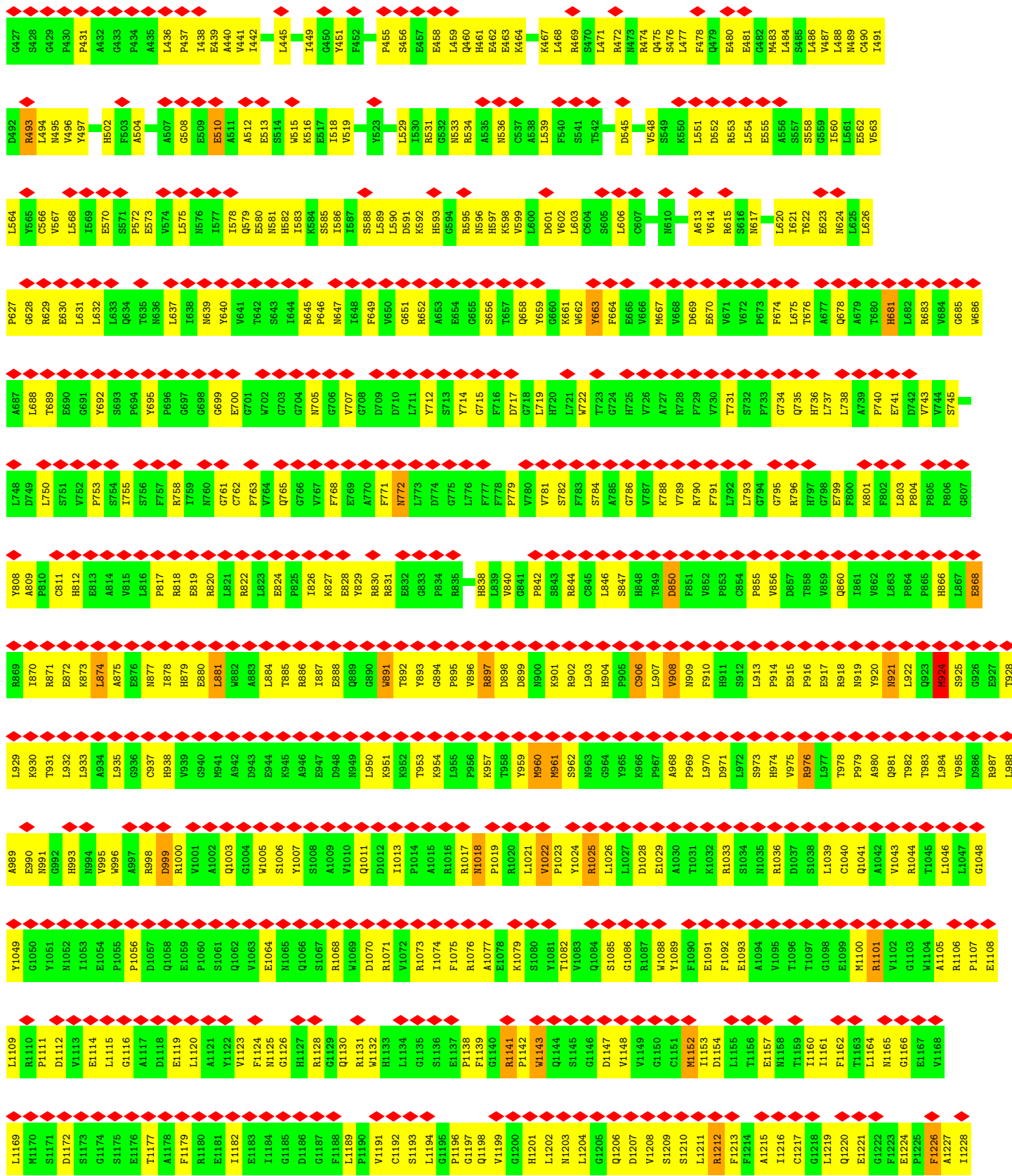
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THR	ALA	GLN	THR	THR	THR	THR	ASP	PRD	ARG	GLU	GLY	Y2885	N2886	P2887	Q2888	R2889	D2890	L2891	S2892	T2893	L2894	S2895	P2896	R2897	E2898	L2899	K2899	Q2872	A2873	M2874	A2875	E2876	Q2877	L2878	A2879	E2880	N2881	Y2882	H2883	N2884	T2885	W2886	G2887	R2888	K2889	K2890	K2891	Q2892	E2893	L2894	E2895	A2896	K2897	G2898	G2899	G2900	T2901	H2902	P2903	L2904	
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A2484	L2485	V2486	Q2487	P2488	K2489	M2490	S2491	A2492	S2493	F2494	V2495	P2496	D2497	H2498	K2499	A2500	S2501	M2502	V2503	L2504	F2505	L2506	D2507	R2508	V2509	Y2510	G2511	I2512	E2513	M2514	Q2515	D2516	F2517	L2518	L2519	H2520	V2521	L2522	D2523	V2524	G2525	F2526	L2527	P2528	M2530	R2531	A2532	A2533	A2534	S2535	L2536	D2537	T2538	A2539	T2540	F2541	S2542	T2543			
S2424	F2425	Y2426	A2427	A2428	L2429	I2430	D2431	L2432	L2433	G2434	C2435	R2436	A2437	P2438	E2439	M2440	H2441	L2442	L2443	Q2444	A2445	G2446	K2447	G2448	E2449	A2450	L2451	R2452	L2453	R2454	A2455	L2456	L2457	R2458	S2459	L2460	V2461	P2462	L2463	D2464	D2465	L2466	V2467	G2468	L2469	L2470	S2471	L2472	P2473	L2474	Q2475	L2476	P2477	T2478	L2479	L2480	K2481	D2482	G2483		
C2363	F2364	G2365	P2366	A2367	L2368	R2369	G2370	E2371	G2372	G2373	S2374	G2375	L2376	L2377	A2378	I2380	E2381	E2382	A2383	L2384	R2385	L2386	S2387	E2388	D2389	P2390	R2391	L2392	D2393	G2394	R2395	G2396	V2397	ARG	ARG	ASP	ARG	ARG	ARG	GLU	HIS	PHE	GLY	GLU	GLU	P2410	N2351	V2352	P2353	V2354	E2412	E2413	R2414	R2415	V2416	L2417	R2418	L2419	G2419	L2422	M2423
L2302	A2303	G2304	C2305	G2306	L2307	Q2308	S2309	C2310	P2311	M2312	L2313	L2314	A2315	K2316	G2317	Y2318	P2319	D2320	L2321	G2322	N2323	P2325	C2326	M2327	G2328	R2329	R2330	Y2331	L2332	D2333	F2334	L2335	R2336	F2337	A2338	V2339	F2340	V2341	N2342	S2345	V2346	E2347	E2348	N2349	A2350	N2351	V2352	P2353	V2354	E2412	E2413	R2414	R2415	V2416	L2417	R2418	L2419	G2419	L2422	M2423	

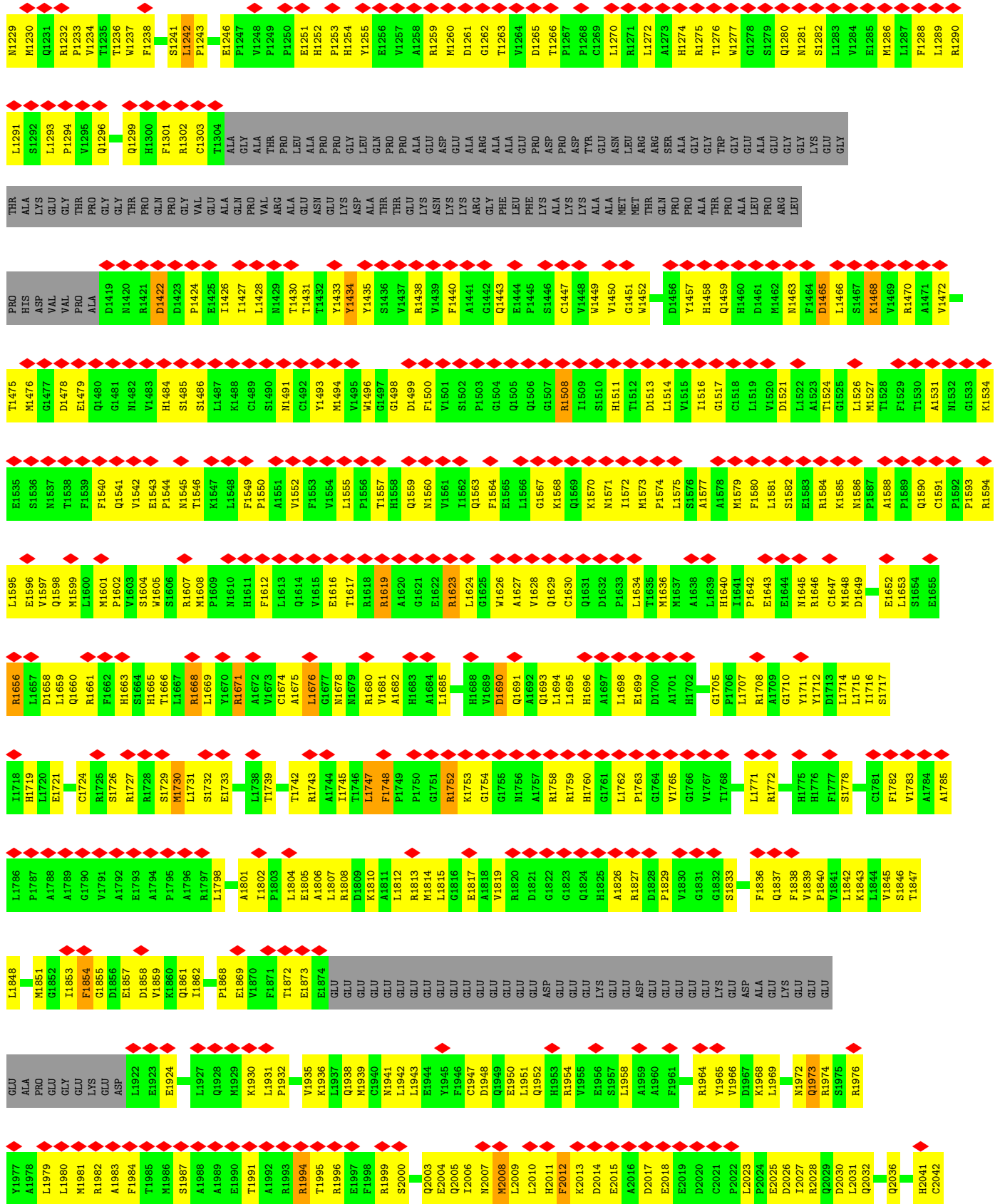
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● Molecule 1: Ryanodine receptor 1

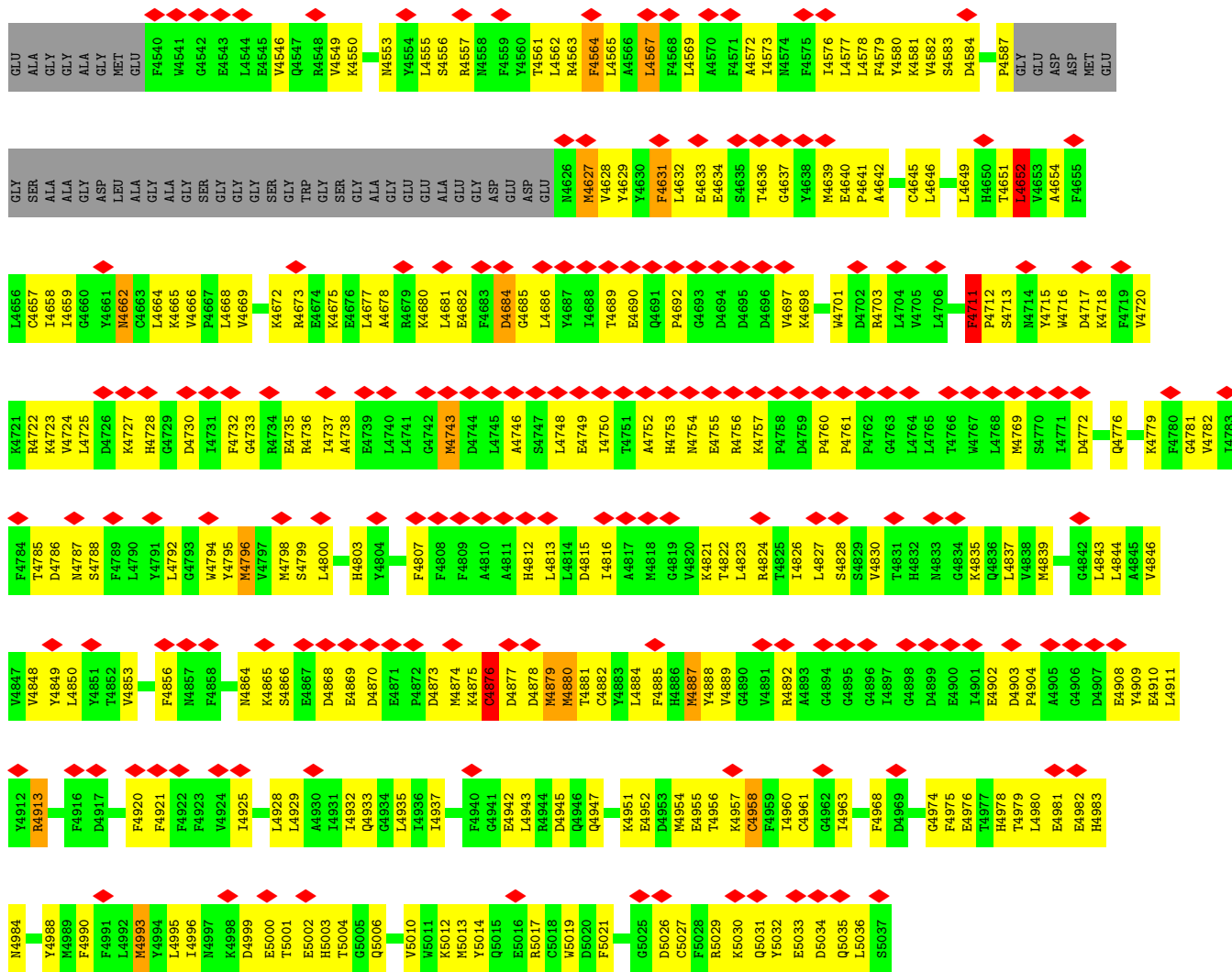




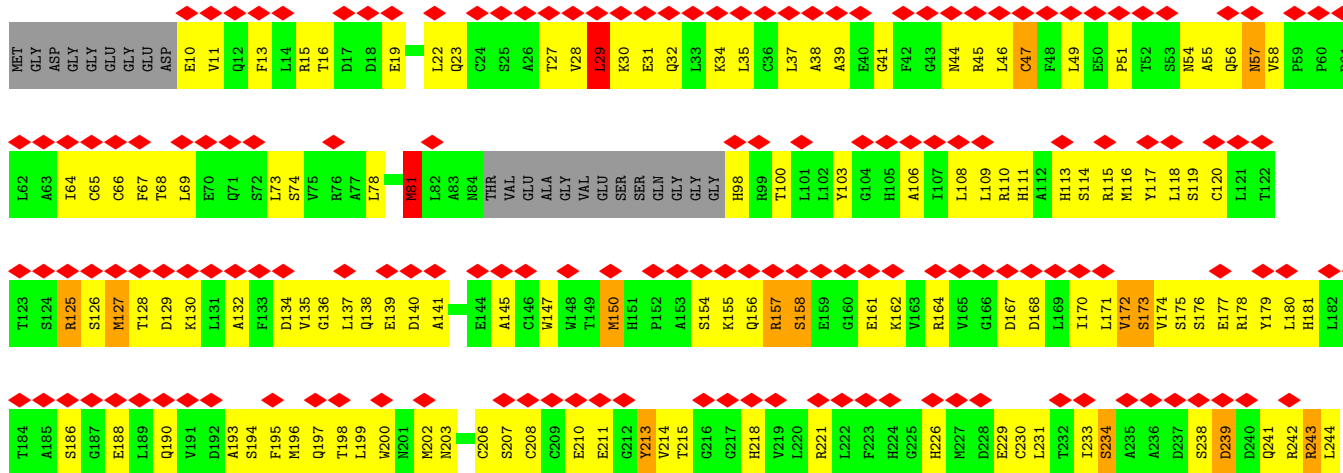


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S3600	Y3540	A3479	R3420	R3359	A3299	M3239	R3180	THR	T3059	A2999	R2939	
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V3602	L3542	GLY	A3421	T3361	P3301	P3241	T3182	VAL	A3061	I3001	LYS	
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L3623	K3562	I3441	F3442	R3321	A3261	A3261	H3201	THR	L3079	S3019	GLU	
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		W3445	W3445	V3324	Y3264	E3265	A3204	THR	G3084	A3022	R2965	
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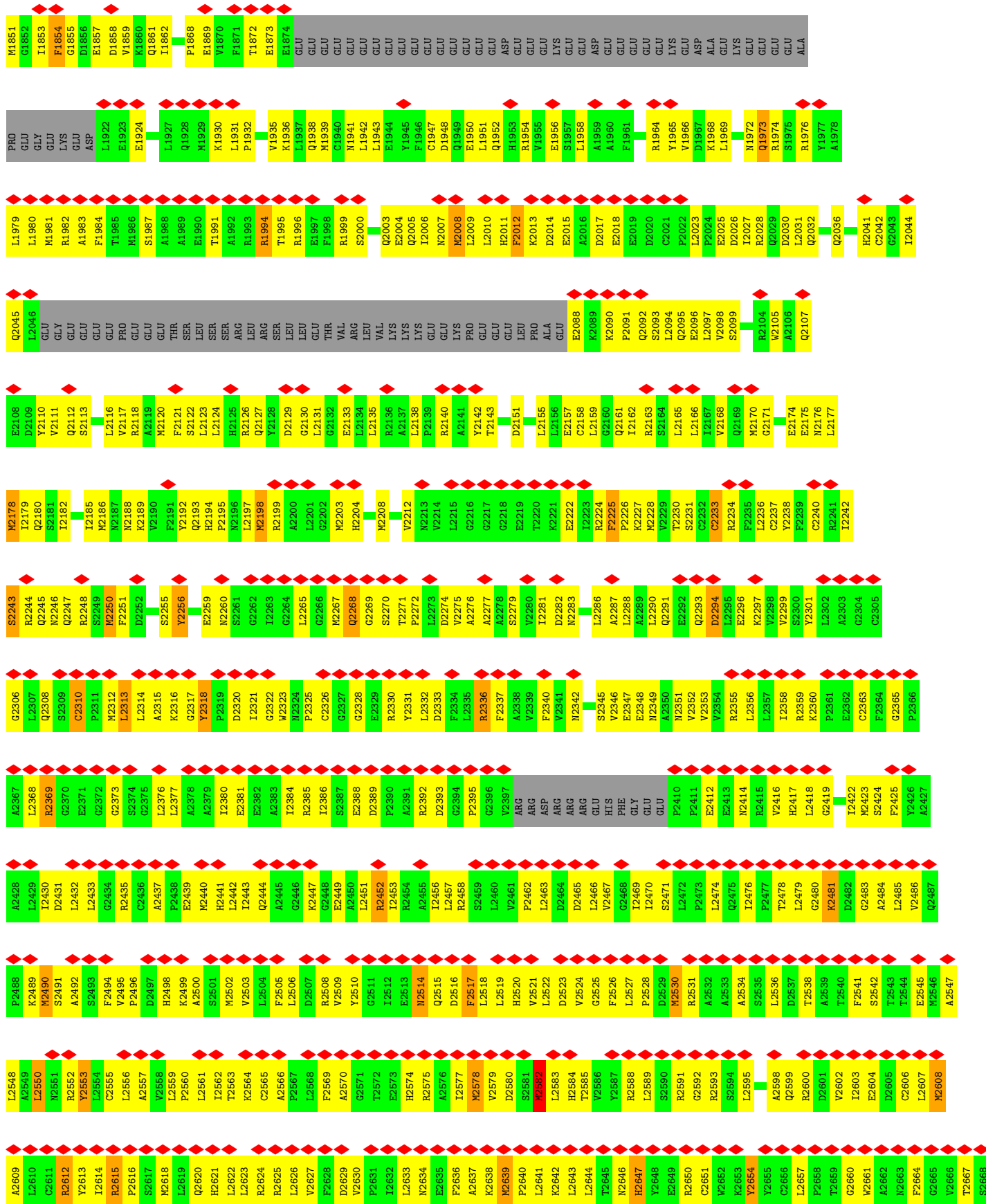


• Molecule 1: Ryanodine receptor 1

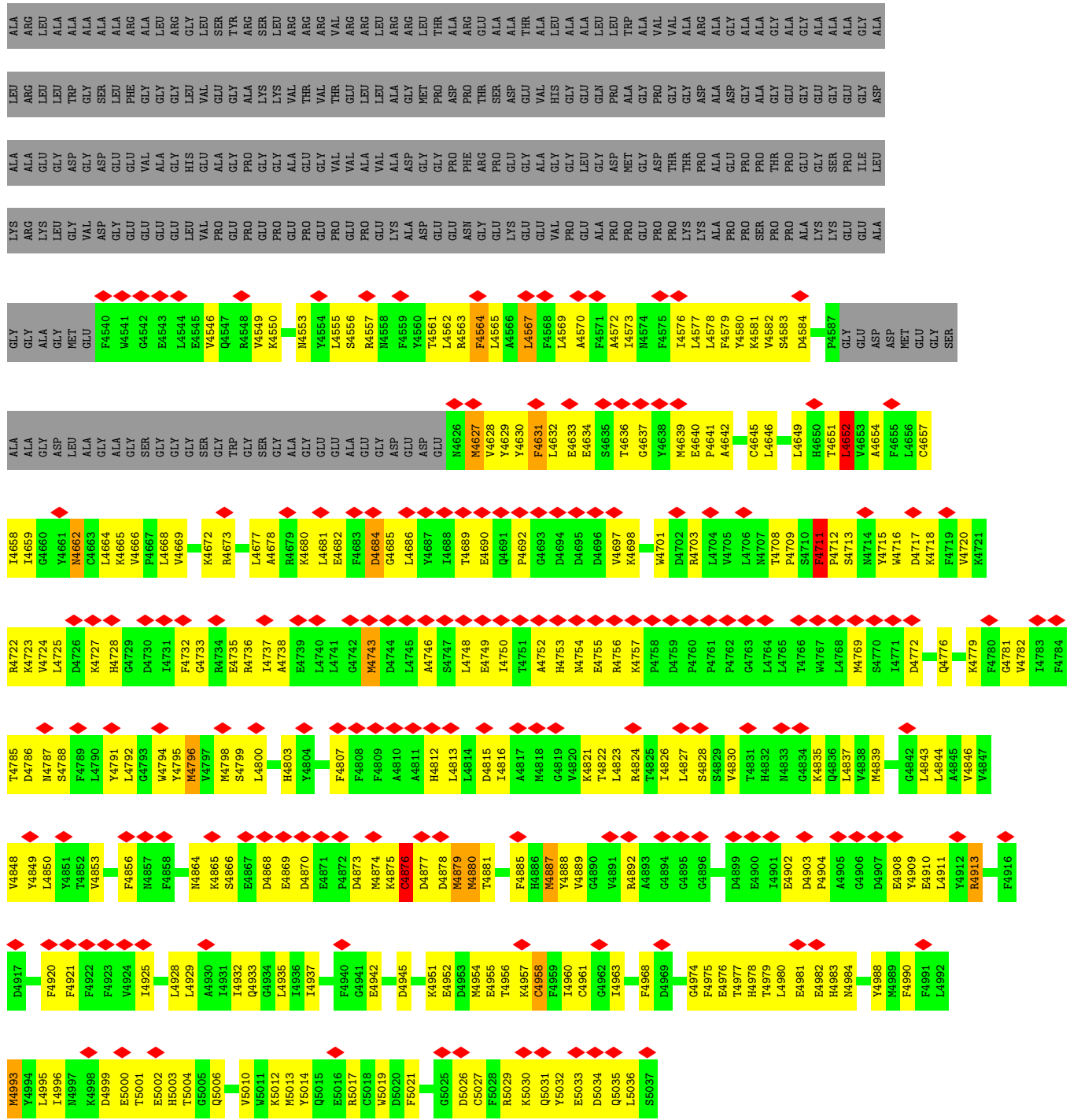


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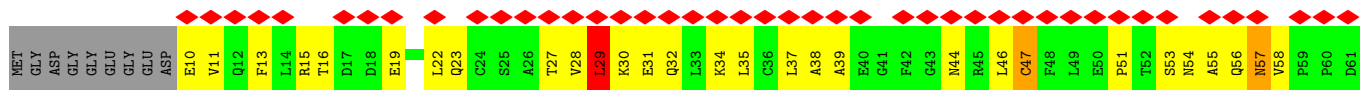


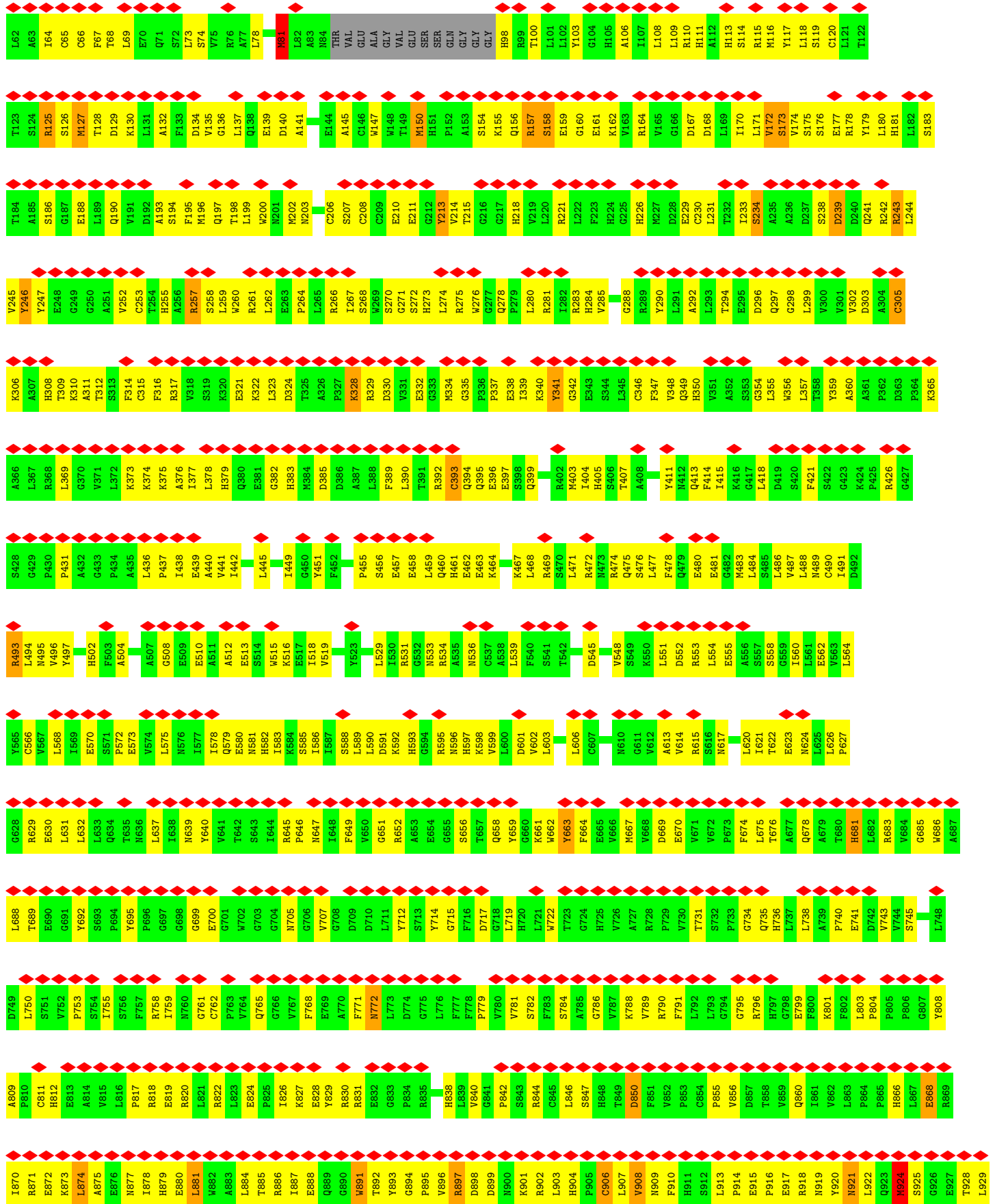
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• Molecule 1: Ryanodine receptor 1

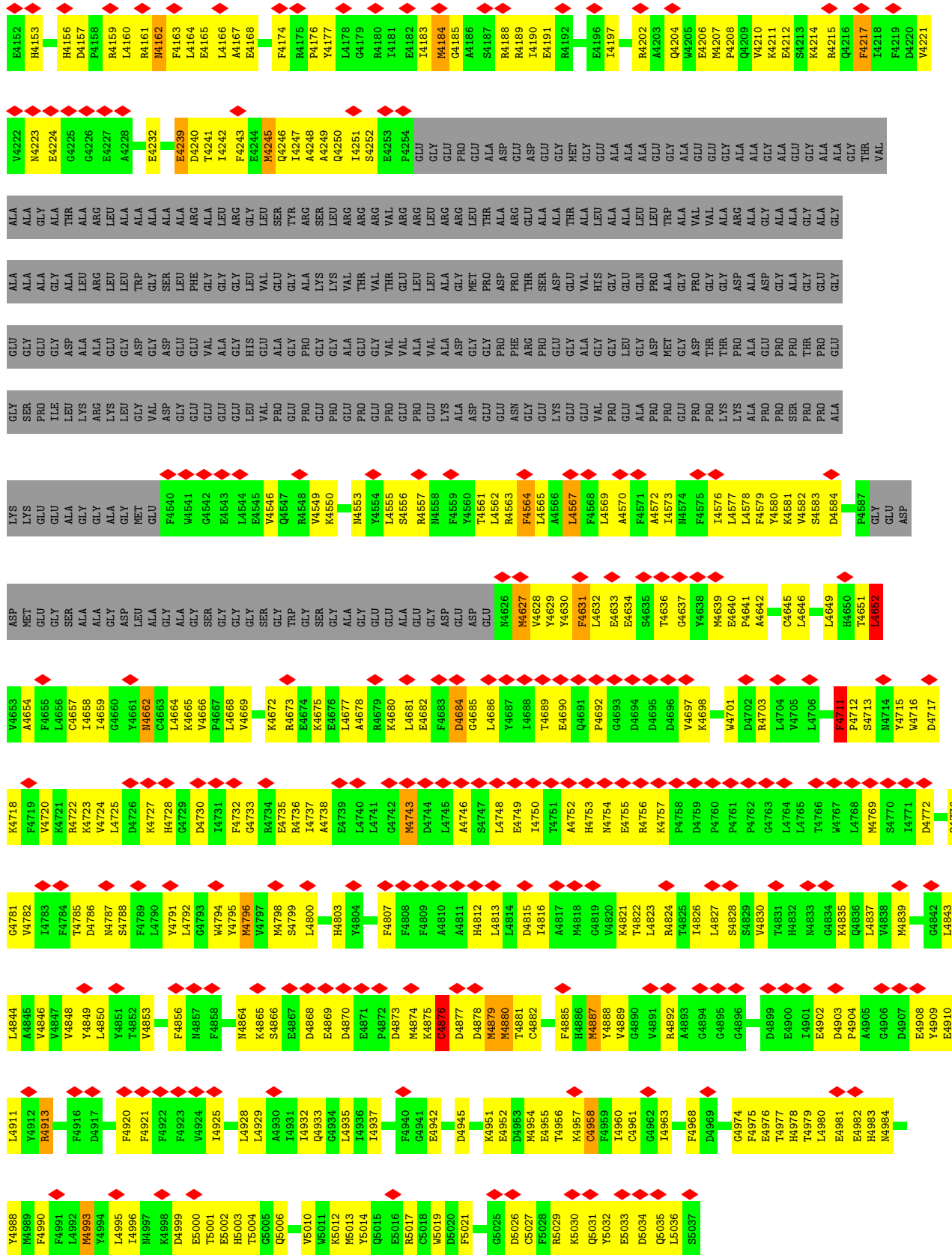
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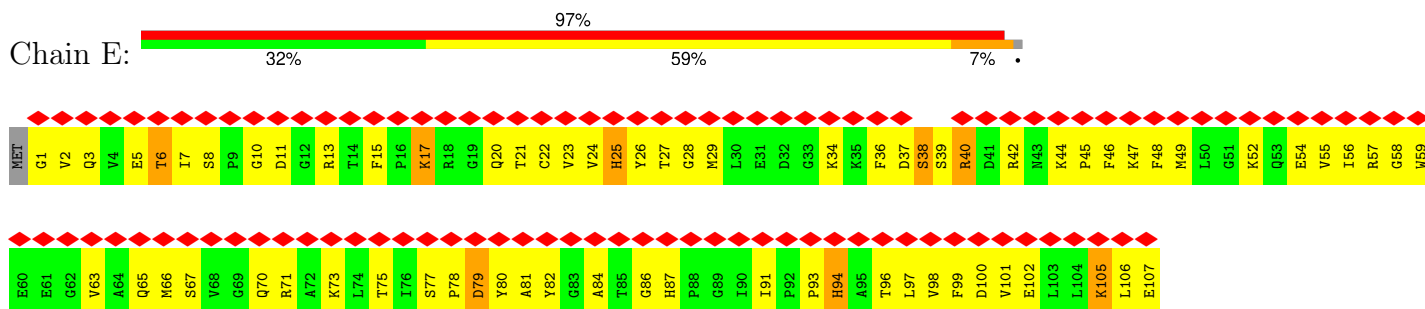


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G1705	F1580	L1519	PRO	H1461	H1461	R1212	L1153	F1092	K1032	D971
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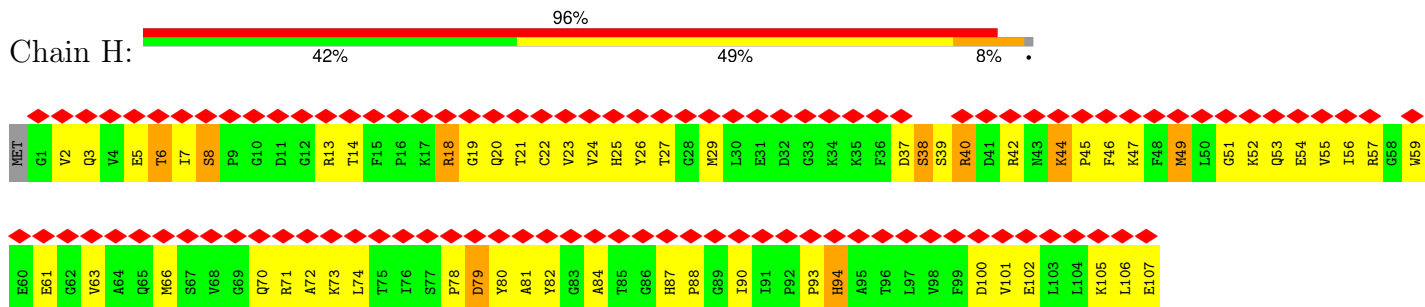
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V3505	Q3506	T3507	S3508	L3509	L3510	V3511	A3512	L3513	L3514	K3515	K3516	M3517	L3518	P3519	L3520	G3521	L3522	M3523	M3524	C3525	A3526	P3527	T3528	D3529	Q3530	D3531	L3532	L3533	M3534	L3535	A3536	K3537	T3538	R3539	Y3540	A3541	L3542	K3543	D3544	T3545	D3546	E3547	E3548	V3549	R3550	E3551	F3552	L3553	Q3554	N3555	N3556	L3557	L3558	L3559	Q3560	G3561	K3562	V3563	E3564	
W3445	S3446	K3447	S3448	R3449	N3450	F3451	K3452	L3453	E3454	E3455	E3456	M3457	F3458	V3459	V3460	Q3461	M3462	E3463	I3464	M3465	M3466	M3467	S3468	F3469	L3470	T3471	D3472	D3473	S3474	K3475	S3476	K3477	M3478	A3479	LYS	ALA	GLY	ASP	ALA	GLN	SER	GLY	GLY	SER	ASP	GLN	ARG	THR	LYS	LYS	E3498	R3499	G3500	D3501	R3502	Y3503	S3504			
A3385	E3386	A3387	E3388	E3389	G3390	E3391	L3392	L3393	W3394	R3395	D3396	E3397	F3398	S3399	V3400	L3401	C3402	R3403	D3404	L3405	Y3406	A3407	R3408	Y3409	P3410	L3411	L3412	I3413	R3414	Y3415	V3416	D3417	N3418	N3419	R3420	A3421	H3422	W3423	L3424	T3425	E3426	P3427	N3428	A3429	N3430	A3431	E3432	E3433	L3434	F3435	F3436	E3377	Q3378	L3379	R3380	L3381	F3442	I3443	K3384	



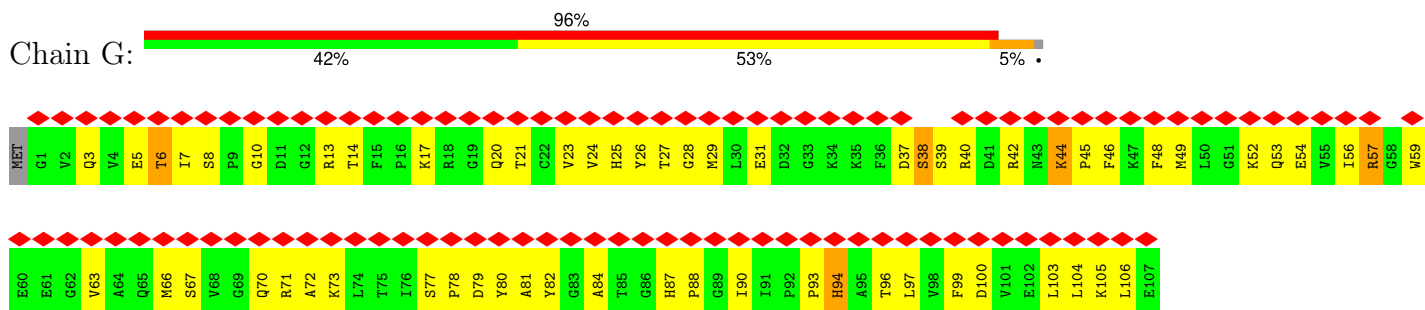
- Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



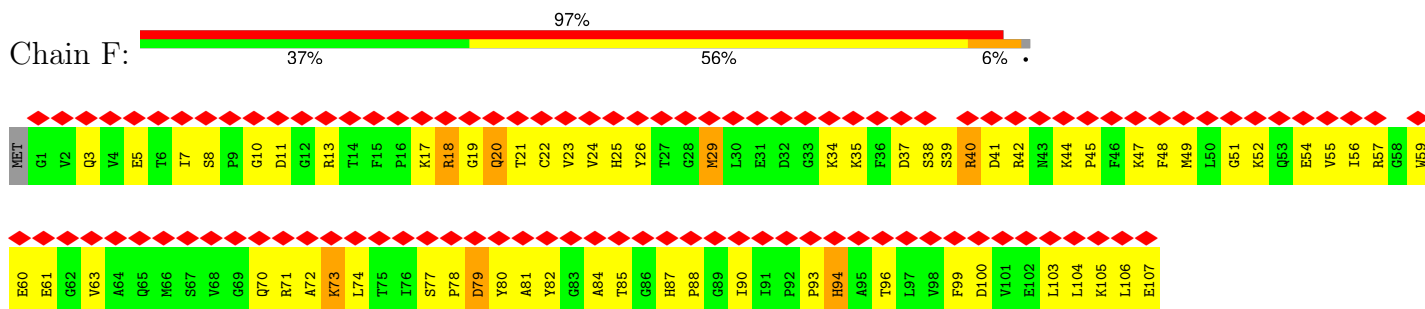
- Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



- Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



- Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	17284	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	58	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	1500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.224	Depositor
Minimum map value	-0.085	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.015	Depositor
Recommended contour level	0.1	Depositor
Map size (Å)	427.008, 427.008, 427.008	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.834, 0.834, 0.834	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, A1BD2, CA, ATP

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.29	1/35977 (0.0%)	0.59	20/48726 (0.0%)
1	B	0.29	1/35977 (0.0%)	0.59	20/48726 (0.0%)
1	C	0.29	1/35977 (0.0%)	0.59	20/48726 (0.0%)
1	D	0.29	1/35977 (0.0%)	0.59	20/48726 (0.0%)
2	E	0.31	0/850	0.65	0/1146
2	F	0.30	0/850	0.64	0/1146
2	G	0.28	0/850	0.59	0/1146
2	H	0.30	0/850	0.65	0/1146
All	All	0.29	4/147308 (0.0%)	0.59	80/199488 (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	A	0	2
1	B	0	2
1	C	0	2
1	D	0	2
All	All	0	8

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	4876	CYS	CB-SG	-5.89	1.72	1.81
1	D	4876	CYS	CB-SG	-5.88	1.72	1.81
1	B	4876	CYS	CB-SG	-5.85	1.72	1.81
1	C	4876	CYS	CB-SG	-5.85	1.72	1.81

All (80) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	4876	CYS	CA-CB-SG	9.65	131.37	114.00
1	A	4876	CYS	CA-CB-SG	9.64	131.34	114.00
1	B	4876	CYS	CA-CB-SG	9.62	131.31	114.00
1	D	4876	CYS	CA-CB-SG	9.61	131.30	114.00
1	A	29	LEU	CA-CB-CG	7.15	131.75	115.30
1	B	29	LEU	CA-CB-CG	7.15	131.74	115.30
1	D	29	LEU	CA-CB-CG	7.15	131.74	115.30
1	C	29	LEU	CA-CB-CG	7.14	131.72	115.30
1	D	2582	MET	CA-CB-CG	6.88	125.00	113.30
1	A	2582	MET	CA-CB-CG	6.88	124.99	113.30
1	B	2582	MET	CA-CB-CG	6.87	124.98	113.30
1	C	2582	MET	CA-CB-CG	6.87	124.97	113.30
1	B	1676	LEU	CA-CB-CG	6.74	130.81	115.30
1	A	1676	LEU	CA-CB-CG	6.73	130.77	115.30
1	D	1676	LEU	CA-CB-CG	6.72	130.75	115.30
1	C	1676	LEU	CA-CB-CG	6.71	130.73	115.30
1	B	2578	MET	CA-CB-CG	6.31	124.02	113.30
1	D	2578	MET	CA-CB-CG	6.29	124.00	113.30
1	C	2578	MET	CA-CB-CG	6.29	124.00	113.30
1	A	2578	MET	CA-CB-CG	6.29	123.99	113.30
1	A	924	MET	CA-CB-CG	6.25	123.93	113.30
1	C	924	MET	CA-CB-CG	6.25	123.93	113.30
1	D	924	MET	CA-CB-CG	6.24	123.92	113.30
1	B	924	MET	CA-CB-CG	6.24	123.90	113.30
1	A	4652	LEU	CA-CB-CG	5.89	128.84	115.30
1	D	4652	LEU	CA-CB-CG	5.89	128.84	115.30
1	C	4652	LEU	CA-CB-CG	5.88	128.81	115.30
1	B	4652	LEU	CA-CB-CG	5.87	128.81	115.30
1	D	2198	MET	CA-CB-CG	5.83	123.21	113.30
1	A	2198	MET	CA-CB-CG	5.82	123.19	113.30
1	B	2198	MET	CA-CB-CG	5.82	123.19	113.30
1	C	2198	MET	CA-CB-CG	5.79	123.14	113.30
1	B	874	LEU	CA-CB-CG	5.72	128.47	115.30
1	A	874	LEU	CA-CB-CG	5.71	128.44	115.30
1	D	874	LEU	CA-CB-CG	5.71	128.44	115.30
1	C	874	LEU	CA-CB-CG	5.71	128.44	115.30
1	C	4567	LEU	CA-CB-CG	5.67	128.35	115.30
1	B	4567	LEU	CA-CB-CG	5.66	128.31	115.30
1	A	4567	LEU	CA-CB-CG	5.66	128.31	115.30
1	D	4567	LEU	CA-CB-CG	5.64	128.28	115.30
1	D	2550	LEU	CA-CB-CG	5.63	128.24	115.30
1	C	2550	LEU	CA-CB-CG	5.63	128.24	115.30
1	A	2550	LEU	CA-CB-CG	5.62	128.21	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2550	LEU	CA-CB-CG	5.62	128.21	115.30
1	B	3723	MET	CA-CB-CG	5.50	122.65	113.30
1	D	3723	MET	CA-CB-CG	5.50	122.65	113.30
1	C	1152	MET	CA-CB-CG	5.48	122.62	113.30
1	A	3723	MET	CA-CB-CG	5.48	122.62	113.30
1	C	3723	MET	CA-CB-CG	5.48	122.62	113.30
1	B	1152	MET	CA-CB-CG	5.46	122.59	113.30
1	D	1152	MET	CA-CB-CG	5.46	122.58	113.30
1	A	1152	MET	CA-CB-CG	5.46	122.57	113.30
1	A	3836	MET	CA-CB-CG	5.45	122.57	113.30
1	C	3836	MET	CA-CB-CG	5.45	122.57	113.30
1	B	3836	MET	CA-CB-CG	5.45	122.57	113.30
1	B	4880	MET	CA-CB-CG	5.45	122.56	113.30
1	D	3836	MET	CA-CB-CG	5.44	122.54	113.30
1	A	4880	MET	CA-CB-CG	5.43	122.53	113.30
1	D	4880	MET	CA-CB-CG	5.43	122.53	113.30
1	C	4880	MET	CA-CB-CG	5.42	122.50	113.30
1	D	2481	LYS	C-N-CA	5.36	135.10	121.70
1	C	2481	LYS	C-N-CA	5.35	135.08	121.70
1	A	2481	LYS	C-N-CA	5.35	135.07	121.70
1	B	2481	LYS	C-N-CA	5.34	135.04	121.70
1	B	4048	LEU	CA-CB-CG	5.33	127.56	115.30
1	A	4048	LEU	CA-CB-CG	5.32	127.53	115.30
1	B	4245	MET	CB-CG-SD	5.31	128.32	112.40
1	D	4048	LEU	CA-CB-CG	5.31	127.51	115.30
1	C	4048	LEU	CA-CB-CG	5.31	127.51	115.30
1	C	4245	MET	CB-CG-SD	5.30	128.31	112.40
1	A	4245	MET	CB-CG-SD	5.30	128.30	112.40
1	D	4245	MET	CB-CG-SD	5.30	128.30	112.40
1	D	3401	LEU	CA-CB-CG	5.19	127.23	115.30
1	A	3401	LEU	CA-CB-CG	5.17	127.20	115.30
1	B	3401	LEU	CA-CB-CG	5.17	127.19	115.30
1	C	3401	LEU	CA-CB-CG	5.17	127.19	115.30
1	D	81	MET	CA-CB-CG	5.07	121.92	113.30
1	C	81	MET	CA-CB-CG	5.05	121.89	113.30
1	A	81	MET	CA-CB-CG	5.04	121.87	113.30
1	B	81	MET	CA-CB-CG	5.04	121.87	113.30

There are no chirality outliers.

All (8) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1671	ARG	Sidechain
1	A	4876	CYS	Peptide
1	B	1671	ARG	Sidechain
1	B	4876	CYS	Peptide
1	C	1671	ARG	Sidechain
1	C	4876	CYS	Peptide
1	D	1671	ARG	Sidechain
1	D	4876	CYS	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	A	35150	0	34793	2161	0
1	B	35150	0	34793	2145	0
1	C	35150	0	34793	2181	0
1	D	35150	0	34793	2174	0
2	E	831	0	831	75	0
2	F	831	0	830	64	0
2	G	831	0	831	75	0
2	H	831	0	831	75	0
3	A	31	0	12	1	0
3	B	31	0	12	2	0
3	C	31	0	12	2	0
3	D	31	0	12	2	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
6	A	18	0	0	1	0
6	B	18	0	0	1	0
6	C	18	0	0	1	0
6	D	18	0	0	1	0
All	All	144128	0	142543	8717	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 (8717) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:40:ARG:NH2	1:B:674:PHE:CE2	1.90	1.19
1:D:1220:GLN:HB3	1:C:3522:LEU:HD13	1.12	1.12
1:A:3522:LEU:HD13	1:B:1220:GLN:HB3	1.09	1.07
1:B:3522:LEU:HD13	1:C:1220:GLN:HB3	1.11	1.07
1:A:1220:GLN:HB3	1:D:3522:LEU:HD13	1.06	1.06
1:A:1208:VAL:HG21	1:D:3575:LEU:HD21	1.40	1.01
1:D:1208:VAL:HG21	1:C:3575:LEU:HD21	1.42	1.01
1:A:4958:CYS:SG	1:A:4961:CYS:HB2	2.03	0.98
1:D:4958:CYS:SG	1:D:4961:CYS:HB2	2.03	0.98
1:C:4958:CYS:SG	1:C:4961:CYS:HB2	2.03	0.98
1:B:4958:CYS:SG	1:B:4961:CYS:HB2	2.03	0.97
2:F:40:ARG:NH2	1:B:674:PHE:CD2	2.32	0.96
1:B:3575:LEU:HD21	1:C:1208:VAL:HG21	1.47	0.96
1:A:1220:GLN:OE1	1:D:3522:LEU:C	2.02	0.96
1:D:1220:GLN:OE1	1:C:3522:LEU:C	2.05	0.95
1:A:1220:GLN:CB	1:D:3522:LEU:HD13	1.96	0.94
1:A:3575:LEU:HD21	1:B:1208:VAL:HG21	1.50	0.93
1:A:3522:LEU:HD13	1:B:1220:GLN:CB	1.99	0.93
2:H:88:PRO:HB2	1:D:623:GLU:OE2	1.69	0.93
2:H:7:ILE:HD13	2:H:71:ARG:HE	1.36	0.91
2:F:40:ARG:NH2	1:B:674:PHE:HE2	1.44	0.91
1:B:3522:LEU:HD13	1:C:1220:GLN:CB	2.01	0.90
1:B:3522:LEU:C	1:C:1220:GLN:OE1	2.09	0.90
2:F:40:ARG:HH22	1:B:674:PHE:HE2	0.93	0.89
1:A:3522:LEU:C	1:B:1220:GLN:OE1	2.11	0.89
1:B:3333:THR:HA	1:B:3336:LYS:HE3	1.57	0.86
2:H:7:ILE:CG1	1:D:719:LEU:HD21	2.05	0.86
1:D:3333:THR:HA	1:D:3336:LYS:HE3	1.57	0.86
1:D:975:VAL:HB	1:D:1044:ARG:HH22	1.41	0.85
1:B:975:VAL:HB	1:B:1044:ARG:HH22	1.41	0.85
1:A:975:VAL:HB	1:A:1044:ARG:HH22	1.41	0.85
1:A:3875:MET:HB3	1:A:3878:ASP:HB3	1.58	0.85
1:C:975:VAL:HB	1:C:1044:ARG:HH22	1.42	0.85
1:A:3333:THR:HA	1:A:3336:LYS:HE3	1.57	0.84
1:C:1230:MET:SD	1:C:1827:ARG:NH2	2.50	0.84
1:C:3875:MET:HB3	1:C:3878:ASP:HB3	1.58	0.84
1:A:3478:MET:HE2	1:B:1141:ARG:HH22	1.40	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3333:THR:HA	1:C:3336:LYS:HE3	1.57	0.84
1:B:3875:MET:HB3	1:B:3878:ASP:HB3	1.58	0.84
1:B:1230:MET:SD	1:B:1827:ARG:NH2	2.50	0.84
1:A:1230:MET:SD	1:A:1827:ARG:NH2	2.50	0.84
1:A:2998:PHE:HA	1:A:3002:LEU:HB2	1.60	0.84
1:A:3522:LEU:HB3	1:B:1220:GLN:OE1	1.78	0.84
2:H:7:ILE:HG13	1:D:719:LEU:HD21	1.59	0.84
1:B:875:ALA:O	1:B:879:HIS:ND1	2.11	0.83
1:D:1220:GLN:CB	1:C:3522:LEU:HD13	2.02	0.83
1:D:1230:MET:SD	1:D:1827:ARG:NH2	2.50	0.83
1:D:2998:PHE:HA	1:D:3002:LEU:HB2	1.60	0.83
1:C:875:ALA:O	1:C:879:HIS:ND1	2.11	0.83
1:C:2998:PHE:HA	1:C:3002:LEU:HB2	1.60	0.83
1:A:116:MET:HG2	1:A:137:LEU:HB3	1.61	0.83
1:D:3875:MET:HB3	1:D:3878:ASP:HB3	1.58	0.83
1:B:116:MET:HG2	1:B:137:LEU:HB3	1.61	0.83
1:C:116:MET:HG2	1:C:137:LEU:HB3	1.61	0.83
1:B:2998:PHE:HA	1:B:3002:LEU:HB2	1.60	0.83
1:C:3924:LEU:HA	1:C:3927:GLN:HE21	1.44	0.83
1:A:2233:CYS:SG	1:A:2270:SER:OG	2.38	0.82
1:A:4177:TYR:HA	1:A:4202:ARG:HH12	1.44	0.82
1:D:116:MET:HG2	1:D:137:LEU:HB3	1.61	0.82
1:D:875:ALA:O	1:D:879:HIS:ND1	2.11	0.82
1:A:3924:LEU:HA	1:A:3927:GLN:HE21	1.44	0.82
1:B:3924:LEU:HA	1:B:3927:GLN:HE21	1.44	0.82
1:D:2233:CYS:SG	1:D:2270:SER:OG	2.38	0.82
1:D:3924:LEU:HA	1:D:3927:GLN:HE21	1.44	0.82
1:D:1141:ARG:HH22	1:C:3478:MET:HE2	1.42	0.82
1:C:4177:TYR:HA	1:C:4202:ARG:HH12	1.44	0.82
1:A:1208:VAL:HG21	1:D:3575:LEU:CD2	2.10	0.81
1:B:3478:MET:HE2	1:C:1141:ARG:HH22	1.43	0.81
2:G:40:ARG:NH1	1:C:674:PHE:CE2	2.47	0.81
1:D:4177:TYR:HA	1:D:4202:ARG:HH12	1.44	0.81
1:A:1152:MET:HB3	1:A:1161:ILE:HB	1.63	0.81
1:B:4177:TYR:HA	1:B:4202:ARG:HH12	1.44	0.81
1:B:1152:MET:HB3	1:B:1161:ILE:HB	1.63	0.81
1:B:855:PRO:HG3	1:B:998:ARG:HD3	1.63	0.81
1:C:150:MET:N	1:C:150:MET:SD	2.54	0.81
1:A:150:MET:SD	1:A:150:MET:N	2.54	0.81
1:A:1141:ARG:HH22	1:D:3478:MET:HE2	1.43	0.80
1:D:1152:MET:HB3	1:D:1161:ILE:HB	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:49:MET:HG3	2:H:52:LYS:HB2	1.61	0.80
1:A:855:PRO:HG3	1:A:998:ARG:HD3	1.63	0.80
1:D:150:MET:N	1:D:150:MET:SD	2.54	0.80
1:C:2233:CYS:SG	1:C:2270:SER:OG	2.38	0.80
1:B:150:MET:N	1:B:150:MET:SD	2.54	0.80
1:C:855:PRO:HG3	1:C:998:ARG:HD3	1.63	0.80
1:A:1141:ARG:HH12	1:D:3478:MET:HE3	1.45	0.80
1:D:1220:GLN:HG3	1:C:3519:PRO:HA	1.63	0.80
1:A:1220:GLN:HG3	1:D:3519:PRO:HA	1.63	0.80
1:A:3519:PRO:HA	1:B:1220:GLN:HG3	1.64	0.80
1:C:1152:MET:HB3	1:C:1161:ILE:HB	1.63	0.80
1:B:2233:CYS:SG	1:B:2270:SER:OG	2.38	0.79
1:B:2452:ARG:NH1	1:C:175:SER:HA	1.97	0.79
1:D:2386:ILE:HA	1:D:2392:ARG:HH21	1.48	0.79
1:C:2768:PHE:HA	1:C:2771:ILE:HD12	1.64	0.79
2:G:7:ILE:CG1	1:C:719:LEU:HD21	2.11	0.79
1:A:2781:VAL:HG23	1:A:2789:PRO:HD3	1.65	0.79
2:E:7:ILE:HB	2:E:71:ARG:HG2	1.63	0.79
1:A:483:MET:N	1:A:483:MET:SD	2.56	0.79
1:B:3519:PRO:HA	1:C:1220:GLN:HG3	1.63	0.79
1:A:875:ALA:O	1:A:879:HIS:ND1	2.11	0.79
1:B:3146:HIS:HD2	1:B:3147:ILE:HD12	1.48	0.79
1:A:2570:ALA:HB2	1:A:2613:TYR:HB3	1.65	0.79
1:B:483:MET:N	1:B:483:MET:SD	2.56	0.79
1:D:855:PRO:HG3	1:D:998:ARG:HD3	1.63	0.79
1:D:1208:VAL:HG21	1:C:3575:LEU:CD2	2.13	0.79
1:C:2570:ALA:HB2	1:C:2613:TYR:HB3	1.65	0.79
1:A:3146:HIS:HD2	1:A:3147:ILE:HD12	1.48	0.79
1:A:2470:ILE:HG13	1:A:2525:GLY:HA3	1.64	0.78
2:E:21:THR:HG22	2:E:49:MET:HB2	1.64	0.78
1:A:2386:ILE:HA	1:A:2392:ARG:HH21	1.48	0.78
1:D:3146:HIS:HD2	1:D:3147:ILE:HD12	1.48	0.78
1:A:1220:GLN:OE1	1:D:3522:LEU:HB3	1.83	0.78
1:A:2768:PHE:HA	1:A:2771:ILE:HD12	1.64	0.78
1:D:483:MET:N	1:D:483:MET:SD	2.56	0.78
1:D:2781:VAL:HG23	1:D:2789:PRO:HD3	1.65	0.78
1:C:483:MET:SD	1:C:483:MET:N	2.56	0.78
1:B:2470:ILE:HG13	1:B:2525:GLY:HA3	1.64	0.78
1:B:2570:ALA:HB2	1:B:2613:TYR:HB3	1.65	0.78
1:B:2781:VAL:HG23	1:B:2789:PRO:HD3	1.65	0.78
1:B:3478:MET:HE3	1:C:1141:ARG:HH12	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2570:ALA:HB2	1:D:2613:TYR:HB3	1.65	0.78
1:D:3567:PRO:HA	1:D:3570:ARG:HG2	1.65	0.78
1:A:1220:GLN:HB3	1:D:3522:LEU:CD1	2.02	0.78
1:A:3890:LEU:HA	1:A:3893:GLU:HG3	1.66	0.78
2:G:7:ILE:CG1	1:C:719:LEU:CD2	2.62	0.78
1:B:3522:LEU:HB3	1:C:1220:GLN:OE1	1.82	0.78
1:A:4578:LEU:HD12	1:B:4879:MET:HG3	1.66	0.78
1:D:2609:ALA:HA	1:D:2612[B]:ARG:HD3	1.66	0.78
1:C:2781:VAL:HG23	1:C:2789:PRO:HD3	1.65	0.78
1:D:2768:PHE:HA	1:D:2771:ILE:HD12	1.64	0.77
1:C:3890:LEU:HA	1:C:3893:GLU:HG3	1.66	0.77
1:A:3567:PRO:HA	1:A:3570:ARG:HG2	1.65	0.77
1:B:2768:PHE:HA	1:B:2771:ILE:HD12	1.64	0.77
1:A:2609:ALA:HA	1:A:2612[B]:ARG:HD3	1.66	0.77
1:B:2386:ILE:HA	1:B:2392:ARG:HH21	1.48	0.77
1:B:3980:LEU:HB3	1:B:3985:LEU:HD21	1.67	0.77
1:D:2470:ILE:HG13	1:D:2525:GLY:HA3	1.64	0.77
1:C:2470:ILE:HG13	1:C:2525:GLY:HA3	1.64	0.77
1:C:3980:LEU:HB3	1:C:3985:LEU:HD21	1.67	0.77
1:A:3980:LEU:HB3	1:A:3985:LEU:HD21	1.67	0.77
1:D:2806:ARG:O	1:D:2810:LYS:HB2	1.84	0.77
1:A:1106:ARG:HE	1:A:1120:LEU:HB3	1.50	0.77
1:D:3980:LEU:HB3	1:D:3985:LEU:HD21	1.67	0.77
1:C:2386:ILE:HA	1:C:2392:ARG:HH21	1.48	0.77
1:A:2806:ARG:O	1:A:2810:LYS:HB2	1.84	0.77
1:D:1141:ARG:HH12	1:C:3478:MET:HE3	1.49	0.77
1:C:1212:ARG:HE	1:C:1213:PHE:H	1.33	0.77
1:A:2265:LEU:O	1:A:2330:ARG:NH1	2.18	0.77
1:B:2609:ALA:HA	1:B:2612[B]:ARG:HD3	1.66	0.77
1:B:2806:ARG:O	1:B:2810:LYS:HB2	1.84	0.77
1:D:1212:ARG:HE	1:D:1213:PHE:H	1.33	0.77
1:C:162:LYS:O	1:C:164:ARG:NH1	2.18	0.77
1:D:1106:ARG:HE	1:D:1120:LEU:HB3	1.50	0.77
1:A:299:LEU:HD21	1:A:357:LEU:HD13	1.68	0.76
1:B:3890:LEU:HA	1:B:3893:GLU:HG3	1.66	0.76
1:C:2806:ARG:O	1:C:2810:LYS:HB2	1.84	0.76
1:C:3146:HIS:HD2	1:C:3147:ILE:HD12	1.48	0.76
1:B:2265:LEU:O	1:B:2330:ARG:NH1	2.18	0.76
1:B:3567:PRO:HA	1:B:3570:ARG:HG2	1.65	0.76
1:D:299:LEU:HD21	1:D:357:LEU:HD13	1.68	0.76
1:D:162:LYS:O	1:D:164:ARG:NH1	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3839:CYS:O	1:A:3925:ARG:NH2	2.19	0.76
2:G:21:THR:HA	2:G:49:MET:HA	1.67	0.76
1:C:3567:PRO:HA	1:C:3570:ARG:HG2	1.65	0.76
1:B:3839:CYS:O	1:B:3925:ARG:NH2	2.19	0.76
1:D:2265:LEU:O	1:D:2330:ARG:NH1	2.18	0.76
1:C:2609:ALA:HA	1:C:2612[B]:ARG:HD3	1.66	0.76
1:B:156:GLN:N	1:B:156:GLN:OE1	2.18	0.76
1:D:156:GLN:OE1	1:D:156:GLN:N	2.18	0.76
1:C:4580:TYR:HD2	1:C:4632:LEU:HB2	1.51	0.76
1:A:162:LYS:O	1:A:164:ARG:NH1	2.18	0.76
1:B:1106:ARG:HE	1:B:1120:LEU:HB3	1.50	0.76
1:D:2862:LEU:HG	1:D:2864:GLY:H	1.51	0.76
1:C:156:GLN:OE1	1:C:156:GLN:N	2.18	0.76
1:A:1671:ARG:NH1	1:A:1717:SER:OG	2.19	0.76
1:A:4580:TYR:HD2	1:A:4632:LEU:HB2	1.51	0.76
1:D:4879:MET:HG3	1:C:4578:LEU:HD12	1.68	0.76
1:C:1671:ARG:NH1	1:C:1717:SER:OG	2.19	0.76
1:A:156:GLN:OE1	1:A:156:GLN:N	2.18	0.75
1:A:1212:ARG:HE	1:A:1213:PHE:H	1.33	0.75
1:B:299:LEU:HD21	1:B:357:LEU:HD13	1.68	0.75
1:D:3839:CYS:O	1:D:3925:ARG:NH2	2.19	0.75
1:C:1106:ARG:HE	1:C:1120:LEU:HB3	1.50	0.75
1:B:2522:LEU:HA	1:B:2526:PHE:HB2	1.68	0.75
1:C:3839:CYS:O	1:C:3925:ARG:NH2	2.19	0.75
1:B:667:MET:HB3	1:B:790:ARG:HB3	1.68	0.75
1:B:2175:GLU:HB2	1:B:2228:MET:HE3	1.67	0.75
1:D:175:SER:HA	1:C:2452:ARG:NH1	2.01	0.75
1:D:4006:ASP:HB3	1:D:4009:GLN:HG3	1.69	0.75
1:A:4006:ASP:HB3	1:A:4009:GLN:HG3	1.69	0.75
1:D:1141:ARG:HH22	1:C:3478:MET:CE	1.98	0.75
1:C:3146:HIS:HA	1:C:3149:GLN:HE21	1.52	0.75
1:A:175:SER:HA	1:D:2452:ARG:NH1	2.00	0.75
1:B:162:LYS:O	1:B:164:ARG:NH1	2.18	0.75
1:B:4578:LEU:HD12	1:C:4879:MET:HG3	1.68	0.75
1:D:4580:TYR:HD2	1:D:4632:LEU:HB2	1.51	0.75
1:C:2265:LEU:O	1:C:2330:ARG:NH1	2.18	0.75
2:E:23:VAL:HG22	2:E:45:PRO:HB2	1.69	0.75
2:G:7:ILE:HG13	1:C:719:LEU:HD21	1.68	0.75
1:C:667:MET:HB3	1:C:790:ARG:HB3	1.68	0.75
1:B:1671:ARG:NH1	1:B:1717:SER:OG	2.19	0.75
1:D:3392:LEU:HA	1:D:3395:ARG:HE	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:299:LEU:HD21	1:C:357:LEU:HD13	1.68	0.75
2:F:49:MET:HG3	2:F:52:LYS:HB2	1.69	0.75
1:B:3146:HIS:HA	1:B:3149:GLN:HE21	1.52	0.75
1:D:667:MET:HB3	1:D:790:ARG:HB3	1.68	0.75
1:D:1671:ARG:NH1	1:D:1717:SER:OG	2.19	0.75
1:C:3392:LEU:HA	1:C:3395:ARG:HE	1.52	0.75
1:D:3890:LEU:HA	1:D:3893:GLU:HG3	1.66	0.74
1:A:2862:LEU:HG	1:A:2864:GLY:H	1.51	0.74
1:A:3146:HIS:HA	1:A:3149:GLN:HE21	1.52	0.74
1:B:1212:ARG:HE	1:B:1213:PHE:H	1.33	0.74
1:B:2862:LEU:HG	1:B:2864:GLY:H	1.51	0.74
1:C:2522:LEU:HA	1:C:2526:PHE:HB2	1.68	0.74
1:A:1141:ARG:HH22	1:D:3478:MET:CE	2.00	0.74
1:A:2452:ARG:NH1	1:B:175:SER:HA	2.01	0.74
1:B:3981:ALA:HA	1:B:3986:TRP:HZ2	1.52	0.74
1:B:4006:ASP:HB3	1:B:4009:GLN:HG3	1.69	0.74
1:A:1141:ARG:HH12	1:D:3478:MET:CE	1.99	0.74
1:D:2458:ARG:NH2	1:D:2509:VAL:O	2.21	0.74
1:C:4006:ASP:HB3	1:C:4009:GLN:HG3	1.69	0.74
1:A:667:MET:HB3	1:A:790:ARG:HB3	1.68	0.74
1:A:2522:LEU:HA	1:A:2526:PHE:HB2	1.68	0.74
1:A:2886:TRP:HA	1:A:2889:LYS:HE3	1.70	0.74
1:B:2466:LEU:HB3	1:B:2506:LEU:HD11	1.69	0.74
1:B:4580:TYR:HD2	1:B:4632:LEU:HB2	1.51	0.74
1:A:4848:VAL:HG11	1:A:4887:MET:HB3	1.70	0.74
1:A:2884:ASN:O	1:A:2888:ARG:HB2	1.88	0.74
1:C:3981:ALA:HA	1:C:3986:TRP:HZ2	1.52	0.74
1:B:4848:VAL:HG11	1:B:4887:MET:HB3	1.70	0.74
1:D:2884:ASN:O	1:D:2888:ARG:HB2	1.88	0.74
1:D:3146:HIS:HA	1:D:3149:GLN:HE21	1.52	0.74
1:D:1220:GLN:OE1	1:C:3523:ASN:N	2.21	0.73
1:C:2862:LEU:HG	1:C:2864:GLY:H	1.51	0.73
1:A:3392:LEU:HA	1:A:3395:ARG:HE	1.52	0.73
2:G:23:VAL:HG22	2:G:45:PRO:HB2	1.69	0.73
1:A:3914:ASN:HB3	1:A:3917:ILE:HG12	1.71	0.73
2:F:7:ILE:HG22	1:B:737:LEU:HB2	1.70	0.73
1:C:799:GLU:O	1:C:801:LYS:NZ	2.21	0.73
1:B:3017:PHE:O	1:B:3036:LYS:NZ	2.21	0.73
1:D:758:ARG:HH11	1:D:761:GLY:H	1.36	0.73
1:D:2522:LEU:HA	1:D:2526:PHE:HB2	1.68	0.73
1:C:758:ARG:HH11	1:C:761:GLY:H	1.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4888:TYR:O	1:C:4892:ARG:NH1	2.22	0.73
1:A:2458:ARG:NH2	1:A:2509:VAL:O	2.21	0.73
1:A:4888:TYR:O	1:A:4892:ARG:NH1	2.22	0.73
1:A:3981:ALA:HA	1:A:3986:TRP:HZ2	1.52	0.73
1:B:2458:ARG:NH2	1:B:2509:VAL:O	2.21	0.73
1:C:426:ARG:NH1	1:C:504:ALA:O	2.22	0.73
1:A:799:GLU:O	1:A:801:LYS:NZ	2.21	0.73
1:B:3575:LEU:CD2	1:C:1208:VAL:HG21	2.18	0.73
1:D:174:VAL:O	1:C:2452:ARG:NH1	2.22	0.73
1:D:1939:MET:HA	1:D:1942:LEU:HG	1.71	0.73
1:C:3498:ARG:HH12	1:C:3502:ARG:HH11	1.37	0.73
1:A:2545:GLU:HA	1:A:2548:LEU:HD12	1.71	0.73
1:B:3498:ARG:HH12	1:B:3502:ARG:HH11	1.37	0.73
1:D:4888:TYR:O	1:D:4892:ARG:NH1	2.22	0.73
1:A:426:ARG:NH1	1:A:504:ALA:O	2.22	0.73
1:B:3392:LEU:HA	1:B:3395:ARG:HE	1.52	0.73
1:D:799:GLU:O	1:D:801:LYS:NZ	2.21	0.73
1:D:3914:ASN:HB3	1:D:3917:ILE:HG12	1.71	0.73
1:C:1939:MET:HA	1:C:1942:LEU:HG	1.71	0.73
1:A:3017:PHE:O	1:A:3036:LYS:NZ	2.21	0.72
1:B:799:GLU:O	1:B:801:LYS:NZ	2.21	0.72
1:D:426:ARG:NH1	1:D:504:ALA:O	2.22	0.72
1:D:2886:TRP:HA	1:D:2889:LYS:HE3	1.70	0.72
1:D:2970:SER:HA	1:D:2973:PHE:CE2	2.24	0.72
1:A:1220:GLN:OE1	1:D:3523:ASN:N	2.21	0.72
1:B:3914:ASN:HB3	1:B:3917:ILE:HG12	1.71	0.72
1:D:1064:GLU:HA	1:D:1071:ARG:HH21	1.54	0.72
1:D:4848:VAL:HG11	1:D:4887:MET:HB3	1.70	0.72
1:C:2458:ARG:NH2	1:C:2509:VAL:O	2.21	0.72
1:C:3017:PHE:O	1:C:3036:LYS:NZ	2.21	0.72
1:B:1064:GLU:HA	1:B:1071:ARG:HH21	1.54	0.72
1:B:3478:MET:CE	1:C:1141:ARG:HH22	2.01	0.72
1:B:4888:TYR:O	1:B:4892:ARG:NH1	2.22	0.72
1:D:1999:ARG:NH1	1:D:3635:CYS:SG	2.63	0.72
1:D:2466:LEU:HB3	1:D:2506:LEU:HD11	1.69	0.72
2:F:11:ASP:O	2:F:13:ARG:NH1	2.23	0.72
1:B:1999:ARG:NH1	1:B:3635:CYS:SG	2.63	0.72
1:B:2545:GLU:HA	1:B:2548:LEU:HD12	1.71	0.72
1:D:1220:GLN:OE1	1:C:3522:LEU:HB3	1.87	0.72
1:C:1999:ARG:NH1	1:C:3635:CYS:SG	2.63	0.72
1:C:2175:GLU:HB2	1:C:2228:MET:HE3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4848:VAL:HG11	1:C:4887:MET:HB3	1.70	0.72
1:A:1064:GLU:HA	1:A:1071:ARG:HH21	1.54	0.72
1:A:1196:PRO:O	1:A:1198:GLN:NE2	2.23	0.72
1:A:2466:LEU:HB3	1:A:2506:LEU:HD11	1.70	0.72
1:A:4879:MET:HG3	1:D:4578:LEU:HD12	1.71	0.72
1:B:758:ARG:HH11	1:B:761:GLY:H	1.36	0.72
1:B:914:PRO:HB2	1:B:917:GLU:HG2	1.72	0.72
1:D:3498:ARG:HH12	1:D:3502:ARG:HH11	1.37	0.72
1:D:3981:ALA:HA	1:D:3986:TRP:HZ2	1.52	0.72
1:C:2466:LEU:HB3	1:C:2506:LEU:HD11	1.69	0.72
1:A:1091:GLU:OE2	1:A:1212:ARG:NH2	2.23	0.72
1:A:3498:ARG:HH12	1:A:3502:ARG:HH11	1.37	0.72
1:B:1091:GLU:OE2	1:B:1212:ARG:NH2	2.23	0.72
1:B:2884:ASN:O	1:B:2888:ARG:HB2	1.88	0.72
1:B:2886:TRP:HA	1:B:2889:LYS:HE3	1.70	0.72
1:C:3914:ASN:HB3	1:C:3917:ILE:HG12	1.71	0.72
1:A:1999:ARG:NH1	1:A:3635:CYS:SG	2.63	0.72
1:B:1939:MET:HA	1:B:1942:LEU:HG	1.71	0.72
1:B:2592:GLY:O	1:B:2600:ARG:NH1	2.23	0.72
1:D:3366:ARG:NH1	1:D:3366:ARG:O	2.21	0.72
1:C:2467:VAL:O	1:C:2471:SER:OG	2.08	0.72
1:C:2886:TRP:HA	1:C:2889:LYS:HE3	1.70	0.72
1:D:3222:LYS:HG2	1:D:3227:ARG:HG2	1.72	0.72
1:B:2970:SER:HA	1:B:2973:PHE:CE2	2.24	0.72
1:B:3904:ARG:NH1	1:B:3973:CYS:SG	2.62	0.72
1:B:4239:GLU:O	1:B:4242:ILE:HG13	1.90	0.72
1:D:1091:GLU:OE2	1:D:1212:ARG:NH2	2.23	0.72
1:D:3904:ARG:NH1	1:D:3973:CYS:SG	2.62	0.72
1:D:4239:GLU:O	1:D:4242:ILE:HG13	1.90	0.72
1:A:2970:SER:HA	1:A:2973:PHE:CE2	2.24	0.71
1:C:914:PRO:HB2	1:C:917:GLU:HG2	1.72	0.71
1:C:1259:ARG:NH2	1:C:1595:LEU:O	2.23	0.71
1:C:2970:SER:HA	1:C:2973:PHE:CE2	2.24	0.71
1:A:1259:ARG:NH2	1:A:1595:LEU:O	2.23	0.71
1:B:2467:VAL:O	1:B:2471:SER:OG	2.08	0.71
1:D:1259:ARG:NH2	1:D:1595:LEU:O	2.23	0.71
1:C:2884:ASN:O	1:C:2888:ARG:HB2	1.88	0.71
1:A:241:GLN:O	1:A:243:ARG:NH2	2.23	0.71
1:A:1939:MET:HA	1:A:1942:LEU:HG	1.71	0.71
1:A:3222:LYS:HG2	1:A:3227:ARG:HG2	1.72	0.71
1:A:3603:LEU:HA	1:A:3606:LEU:HD12	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3366:ARG:NH1	1:B:3366:ARG:O	2.21	0.71
1:B:3603:LEU:HA	1:B:3606:LEU:HD12	1.73	0.71
1:D:2025:GLU:HA	1:D:2028:ARG:HE	1.55	0.71
1:C:533:ASN:HB3	1:C:536:ASN:HB2	1.72	0.71
1:C:1064:GLU:HA	1:C:1071:ARG:HH21	1.54	0.71
1:C:2025:GLU:HA	1:C:2028:ARG:HE	1.55	0.71
1:A:1208:VAL:CG2	1:D:3575:LEU:HD21	2.18	0.71
1:A:3366:ARG:NH1	1:A:3366:ARG:O	2.21	0.71
1:B:2025:GLU:HA	1:B:2028:ARG:HE	1.55	0.71
1:D:451:TYR:CZ	1:D:474:ARG:HD3	2.25	0.71
1:C:663:TYR:HE1	1:C:745:SER:HB2	1.56	0.71
1:C:2577:ILE:HD12	1:C:2578:MET:H	1.56	0.71
1:C:3904:ARG:NH1	1:C:3973:CYS:SG	2.62	0.71
1:A:504:ALA:HB2	1:A:512:ALA:HB2	1.72	0.71
1:B:1434:TYR:HB3	1:B:1572:ILE:HG21	1.73	0.71
1:D:1434:TYR:HB3	1:D:1572:ILE:HG21	1.73	0.71
1:C:2545:GLU:HA	1:C:2548:LEU:HD12	1.71	0.71
1:A:533:ASN:HB3	1:A:536:ASN:HB2	1.72	0.71
1:B:451:TYR:CZ	1:B:474:ARG:HD3	2.25	0.71
1:B:1259:ARG:NH2	1:B:1595:LEU:O	2.23	0.71
1:D:2545:GLU:HA	1:D:2548:LEU:HD12	1.71	0.71
1:D:2577:ILE:HD12	1:D:2578:MET:H	1.56	0.71
1:D:3603:LEU:HA	1:D:3606:LEU:HD12	1.73	0.71
1:C:451:TYR:CZ	1:C:474:ARG:HD3	2.25	0.71
1:C:504:ALA:HB2	1:C:512:ALA:HB2	1.72	0.71
1:C:1727:ARG:HA	1:C:1730:MET:HE3	1.73	0.71
1:C:3366:ARG:NH1	1:C:3366:ARG:O	2.21	0.71
1:C:1196:PRO:O	1:C:1198:GLN:NE2	2.23	0.71
1:C:2545:GLU:N	1:C:2545:GLU:OE2	2.24	0.71
1:C:3222:LYS:HG2	1:C:3227:ARG:HG2	1.72	0.71
1:A:1434:TYR:HB3	1:A:1572:ILE:HG21	1.73	0.71
1:A:2577:ILE:HD12	1:A:2578:MET:H	1.56	0.71
1:A:3478:MET:CE	1:B:1141:ARG:HH22	2.03	0.71
1:B:241:GLN:O	1:B:243:ARG:NH2	2.23	0.71
1:B:533:ASN:HB3	1:B:536:ASN:HB2	1.72	0.71
1:D:1141:ARG:HH12	1:C:3478:MET:CE	2.03	0.71
1:C:3603:LEU:HA	1:C:3606:LEU:HD12	1.73	0.71
1:A:451:TYR:CZ	1:A:474:ARG:HD3	2.25	0.71
1:A:758:ARG:HH11	1:A:761:GLY:H	1.36	0.71
1:A:2467:VAL:O	1:A:2471:SER:OG	2.08	0.71
1:B:516:LYS:NZ	1:B:555:GLU:O	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1434:TYR:HB3	1:C:1572:ILE:HG21	1.73	0.71
1:C:2489:LYS:NZ	1:C:2491:SER:OG	2.22	0.71
1:A:1676:LEU:HD21	1:A:2168:VAL:HG23	1.73	0.70
2:F:57:ARG:HH22	2:F:80:TYR:HA	1.55	0.70
1:B:504:ALA:HB2	1:B:512:ALA:HB2	1.72	0.70
1:B:1196:PRO:O	1:B:1198:GLN:NE2	2.23	0.70
1:C:1676:LEU:HD21	1:C:2168:VAL:HG23	1.73	0.70
1:C:2013:LYS:HZ1	1:C:3665:GLU:HB2	1.56	0.70
1:A:1463:ASN:O	1:A:1468:LYS:NZ	2.24	0.70
1:B:438:ILE:O	1:B:442:ILE:HG12	1.91	0.70
1:B:663:TYR:HE1	1:B:745:SER:HB2	1.55	0.70
1:B:2930:LEU:HD22	1:B:2936:ALA:HB2	1.73	0.70
1:B:3222:LYS:HG2	1:B:3227:ARG:HG2	1.72	0.70
1:D:533:ASN:HB3	1:D:536:ASN:HB2	1.72	0.70
1:D:3017:PHE:O	1:D:3036:LYS:NZ	2.21	0.70
1:A:2545:GLU:N	1:A:2545:GLU:OE2	2.24	0.70
1:B:1573:MET:N	1:B:1573:MET:SD	2.64	0.70
1:D:438:ILE:O	1:D:442:ILE:HG12	1.91	0.70
1:D:516:LYS:NZ	1:D:555:GLU:O	2.24	0.70
1:D:2013:LYS:HZ1	1:D:3665:GLU:HB2	1.56	0.70
1:C:1091:GLU:OE2	1:C:1212:ARG:NH2	2.23	0.70
1:B:2538:THR:HB	1:B:2541:PHE:HB2	1.74	0.70
1:B:2545:GLU:N	1:B:2545:GLU:OE2	2.24	0.70
1:D:826:ILE:HG13	1:D:827:LYS:HD2	1.74	0.70
1:C:1573:MET:N	1:C:1573:MET:SD	2.64	0.70
1:A:4239:GLU:O	1:A:4242:ILE:HG13	1.90	0.70
1:B:213:TYR:HA	1:B:340:LYS:HA	1.74	0.70
1:B:4634:GLU:OE1	1:B:4636:THR:N	2.24	0.70
1:C:2538:THR:HB	1:C:2541:PHE:HB2	1.74	0.70
1:B:1727:ARG:HA	1:B:1730:MET:HE3	1.73	0.70
1:D:213:TYR:HA	1:D:340:LYS:HA	1.74	0.70
1:D:4634:GLU:OE1	1:D:4636:THR:N	2.24	0.70
1:C:826:ILE:HG13	1:C:827:LYS:HD2	1.74	0.70
1:C:4239:GLU:O	1:C:4242:ILE:HG13	1.90	0.70
1:A:2930:LEU:HD22	1:A:2936:ALA:HB2	1.73	0.70
1:B:4041:ALA:HA	1:B:4044:MET:HG2	1.73	0.70
1:D:1573:MET:N	1:D:1573:MET:SD	2.64	0.70
1:A:2013:LYS:HZ1	1:A:3665:GLU:HB2	1.56	0.70
1:A:2025:GLU:HA	1:A:2028:ARG:HE	1.55	0.70
1:D:2545:GLU:N	1:D:2545:GLU:OE2	2.24	0.70
1:D:3014:CYS:HG	1:D:3074:SER:HG	1.38	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:438:ILE:O	1:C:442:ILE:HG12	1.91	0.70
1:C:516:LYS:NZ	1:C:555:GLU:O	2.24	0.70
1:A:914:PRO:HB2	1:A:917:GLU:HG2	1.72	0.70
1:A:3478:MET:HE2	1:B:1141:ARG:NH2	2.07	0.70
1:A:3575:LEU:CD2	1:B:1208:VAL:HG21	2.20	0.70
2:E:73:LYS:HZ1	2:E:75:THR:HG23	1.55	0.70
1:B:2742:THR:OG1	1:B:2814:LYS:O	2.10	0.70
1:B:3769:ARG:O	1:B:3773:ARG:NH1	2.25	0.70
1:D:2538:THR:HB	1:D:2541:PHE:HB2	1.74	0.70
1:C:213:TYR:HA	1:C:340:LYS:HA	1.74	0.70
1:A:438:ILE:O	1:A:442:ILE:HG12	1.91	0.70
1:A:516:LYS:NZ	1:A:555:GLU:O	2.24	0.70
1:B:27:THR:HA	1:B:32:GLN:HA	1.73	0.70
1:D:914:PRO:HB2	1:D:917:GLU:HG2	1.72	0.70
1:D:1220:GLN:HB3	1:C:3522:LEU:CD1	2.07	0.70
1:C:317:ARG:O	1:C:347:PHE:N	2.22	0.70
1:C:707:VAL:HG23	1:C:782:SER:HB2	1.74	0.70
1:C:3065:VAL:HA	1:C:3068:LEU:HD12	1.73	0.70
1:A:4634:GLU:OE1	1:A:4636:THR:N	2.24	0.69
2:H:79:ASP:OD2	2:H:80:TYR:N	2.25	0.69
1:B:3504:SER:H	1:B:3507:THR:HG1	1.40	0.69
1:D:3065:VAL:HA	1:D:3068:LEU:HD12	1.73	0.69
1:C:3769:ARG:O	1:C:3773:ARG:NH1	2.25	0.69
1:A:199:LEU:HD12	1:A:200:TRP:H	1.56	0.69
1:A:1573:MET:N	1:A:1573:MET:SD	2.64	0.69
1:A:2538:THR:HB	1:A:2541:PHE:HB2	1.74	0.69
1:B:199:LEU:HD12	1:B:200:TRP:H	1.56	0.69
1:D:241:GLN:O	1:D:243:ARG:NH2	2.23	0.69
1:D:663:TYR:HE1	1:D:745:SER:HB2	1.56	0.69
1:D:1676:LEU:HD21	1:D:2168:VAL:HG23	1.73	0.69
1:D:2175:GLU:HB2	1:D:2228:MET:HE3	1.73	0.69
1:D:2930:LEU:HD22	1:D:2936:ALA:HB2	1.73	0.69
1:A:2888:ARG:O	1:A:2892:GLN:NE2	2.26	0.69
1:A:4041:ALA:HA	1:A:4044:MET:HG2	1.73	0.69
2:E:40:ARG:HH21	2:E:102:GLU:HG2	1.55	0.69
2:H:7:ILE:HD11	2:H:73:LYS:HG3	1.74	0.69
1:B:127:MET:N	1:B:127:MET:SD	2.64	0.69
1:D:393:CYS:SG	1:D:394:GLN:N	2.66	0.69
1:C:2930:LEU:HD22	1:C:2936:ALA:HB2	1.73	0.69
1:A:826:ILE:HG13	1:A:827:LYS:HD2	1.74	0.69
1:B:1676:LEU:HD21	1:B:2168:VAL:HG23	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2489:LYS:NZ	1:B:2491:SER:OG	2.22	0.69
1:D:1196:PRO:O	1:D:1198:GLN:NE2	2.23	0.69
1:C:2355:ARG:O	1:C:2359:ARG:HG2	1.93	0.69
1:A:1216:ILE:HA	1:D:3424:LEU:HD13	1.73	0.69
1:A:3904:ARG:NH1	1:A:3973:CYS:SG	2.62	0.69
1:C:393:CYS:SG	1:C:394:GLN:N	2.66	0.69
1:C:1463:ASN:O	1:C:1468:LYS:NZ	2.24	0.69
1:C:4634:GLU:OE1	1:C:4636:THR:N	2.24	0.69
1:A:1302:ARG:NH1	1:A:1303:CYS:O	2.26	0.69
1:A:3065:VAL:HA	1:A:3068:LEU:HD12	1.73	0.69
1:A:3522:LEU:CD1	1:B:1220:GLN:HB3	2.05	0.69
1:B:357:LEU:HD11	1:B:376:ALA:HB1	1.74	0.69
1:B:393:CYS:SG	1:B:394:GLN:N	2.66	0.69
1:B:826:ILE:HG13	1:B:827:LYS:HD2	1.74	0.69
1:B:1302:ARG:NH1	1:B:1303:CYS:O	2.26	0.69
1:C:1302:ARG:NH1	1:C:1303:CYS:O	2.26	0.69
1:C:2742:THR:OG1	1:C:2814:LYS:O	2.10	0.69
1:C:4041:ALA:HA	1:C:4044:MET:HG2	1.73	0.69
1:A:1727:ARG:HA	1:A:1730:MET:HE3	1.74	0.69
1:A:4684:ASP:OD1	1:A:4684:ASP:N	2.25	0.69
2:G:54:GLU:N	2:G:54:GLU:OE1	2.26	0.69
1:B:426:ARG:NH1	1:B:504:ALA:O	2.22	0.69
1:B:1463:ASN:O	1:B:1468:LYS:NZ	2.24	0.69
1:B:2452:ARG:NH1	1:C:174:VAL:O	2.25	0.69
1:D:504:ALA:HB2	1:D:512:ALA:HB2	1.72	0.69
1:D:1216:ILE:HA	1:C:3424:LEU:HD13	1.74	0.69
1:D:2519:LEU:HD13	1:D:2575:ARG:HG3	1.75	0.69
1:C:27:THR:HA	1:C:32:GLN:HA	1.73	0.69
1:C:199:LEU:HD12	1:C:200:TRP:H	1.56	0.69
1:A:145:ALA:HB2	1:A:175:SER:HB2	1.75	0.69
1:A:213:TYR:HA	1:A:340:LYS:HA	1.74	0.69
1:A:663:TYR:HE1	1:A:745:SER:HB2	1.55	0.69
1:A:2355:ARG:O	1:A:2359:ARG:HG2	1.93	0.69
1:A:2742:THR:OG1	1:A:2814:LYS:O	2.10	0.69
1:A:3145:GLN:HG3	1:A:3196:ARG:HE	1.57	0.69
1:A:3169:LEU:HD12	1:A:3172:ILE:HD11	1.74	0.69
2:E:79:ASP:OD2	2:E:80:TYR:N	2.26	0.69
1:B:145:ALA:HB2	1:B:175:SER:HB2	1.75	0.69
1:B:2519:LEU:HD13	1:B:2575:ARG:HG3	1.75	0.69
1:B:2577:ILE:HD12	1:B:2578:MET:H	1.56	0.69
1:B:3424:LEU:HD13	1:C:1216:ILE:HA	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4692:PRO:HG3	1:B:4703:ARG:HD2	1.75	0.69
1:D:145:ALA:HB2	1:D:175:SER:HB2	1.75	0.69
1:D:2442:LEU:H	1:D:2444:GLN:NE2	1.91	0.69
1:D:2467:VAL:O	1:D:2471:SER:OG	2.08	0.69
1:D:3169:LEU:HD12	1:D:3172:ILE:HD11	1.75	0.69
1:D:3769:ARG:O	1:D:3773:ARG:NH1	2.25	0.69
1:D:4684:ASP:OD1	1:D:4684:ASP:N	2.25	0.69
1:C:127:MET:SD	1:C:127:MET:N	2.64	0.69
1:C:2888:ARG:O	1:C:2892:GLN:NE2	2.26	0.69
1:A:357:LEU:HD11	1:A:376:ALA:HB1	1.74	0.69
1:A:2442:LEU:H	1:A:2444:GLN:NE2	1.91	0.69
1:B:3478:MET:CE	1:C:1141:ARG:HH12	2.06	0.69
1:D:1208:VAL:CG2	1:C:3575:LEU:HD21	2.22	0.69
1:D:4041:ALA:HA	1:D:4044:MET:HG2	1.73	0.69
1:A:27:THR:HA	1:A:32:GLN:HA	1.73	0.69
1:A:393:CYS:SG	1:A:394:GLN:N	2.66	0.69
2:E:11:ASP:O	2:E:13:ARG:NH1	2.26	0.69
2:H:23:VAL:HG22	2:H:45:PRO:HB2	1.75	0.69
1:B:2259:GLU:OE2	1:B:2260:ASN:ND2	2.26	0.69
1:B:2442:LEU:H	1:B:2444:GLN:NE2	1.91	0.69
1:D:562:GLU:OE2	1:D:598:LYS:NZ	2.26	0.69
1:D:707:VAL:HG23	1:D:782:SER:HB2	1.74	0.69
1:D:1141:ARG:NH2	1:C:3478:MET:HE2	2.08	0.69
1:D:2888:ARG:O	1:D:2892:GLN:NE2	2.26	0.69
2:G:79:ASP:OD2	2:G:80:TYR:N	2.26	0.68
1:B:2365:GLY:O	1:B:2369[B]:ARG:NH1	2.26	0.68
1:B:3065:VAL:HA	1:B:3068:LEU:HD12	1.73	0.68
1:B:4684:ASP:OD1	1:B:4684:ASP:N	2.25	0.68
1:D:172:VAL:HG13	1:D:179:TYR:CD1	2.29	0.68
1:D:2365:GLY:O	1:D:2369[B]:ARG:NH1	2.26	0.68
1:D:3676:ASP:HA	1:D:3679:LYS:HE3	1.76	0.68
1:C:2416:VAL:HG22	1:C:2491:SER:HB2	1.75	0.68
1:A:3769:ARG:O	1:A:3773:ARG:NH1	2.25	0.68
1:A:4692:PRO:HG3	1:A:4703:ARG:HD2	1.75	0.68
2:E:78:PRO:HD3	2:E:96:THR:HG22	1.75	0.68
2:G:7:ILE:HG12	1:C:719:LEU:CD2	2.23	0.68
2:G:78:PRO:HD3	2:G:96:THR:HG22	1.75	0.68
1:B:707:VAL:HG23	1:B:782:SER:HB2	1.74	0.68
1:B:1804:LEU:HB3	1:B:1853:ILE:HG21	1.75	0.68
1:D:2519:LEU:HA	1:D:2522:LEU:HD12	1.75	0.68
1:C:241:GLN:O	1:C:243:ARG:NH2	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2442:LEU:H	1:C:2444:GLN:NE2	1.91	0.68
1:C:3145:GLN:HG3	1:C:3196:ARG:HE	1.57	0.68
1:A:174:VAL:O	1:D:2452:ARG:NH1	2.26	0.68
1:A:233:ILE:O	1:A:257:ARG:NH2	2.21	0.68
1:B:3523:ASN:N	1:C:1220:GLN:OE1	2.26	0.68
1:D:2742:THR:OG1	1:D:2814:LYS:O	2.10	0.68
1:C:562:GLU:OE2	1:C:598:LYS:NZ	2.26	0.68
1:A:1101:ARG:NH1	1:A:1114:GLU:OE2	2.27	0.68
1:A:2788:HIS:HB3	1:A:2790:MET:HG3	1.76	0.68
1:D:27:THR:HA	1:D:32:GLN:HA	1.73	0.68
1:D:1302:ARG:NH1	1:D:1303:CYS:O	2.26	0.68
1:B:2189:LYS:HZ3	1:B:2192:TYR:HB2	1.57	0.68
1:C:2365:GLY:O	1:C:2369[B]:ARG:NH1	2.26	0.68
1:C:3676:ASP:HA	1:C:3679:LYS:HE3	1.76	0.68
1:B:2013:LYS:HZ1	1:B:3665:GLU:HB2	1.59	0.68
1:D:357:LEU:HD11	1:D:376:ALA:HB1	1.74	0.68
1:C:145:ALA:HB2	1:C:175:SER:HB2	1.75	0.68
1:C:172:VAL:HG13	1:C:179:TYR:CD1	2.29	0.68
1:A:707:VAL:HG23	1:A:782:SER:HB2	1.74	0.68
1:A:2365:GLY:O	1:A:2369[B]:ARG:NH1	2.26	0.68
1:D:199:LEU:HD12	1:D:200:TRP:H	1.56	0.68
1:D:317:ARG:O	1:D:347:PHE:N	2.22	0.68
1:D:2441:HIS:HA	1:D:2444:GLN:HE21	1.59	0.68
1:D:3376:GLU:HA	1:D:3379:LEU:HD12	1.76	0.68
1:C:3801:GLY:HA3	1:C:3887:PHE:HE2	1.59	0.68
1:D:2592:GLY:O	1:D:2600:ARG:NH1	2.23	0.68
1:A:3070:ILE:HG12	1:A:3073:ARG:HH21	1.59	0.68
1:A:3424:LEU:HD13	1:B:1216:ILE:HA	1.74	0.68
1:B:562:GLU:OE2	1:B:598:LYS:NZ	2.26	0.68
1:D:2355:ARG:O	1:D:2359:ARG:HG2	1.93	0.68
1:D:3145:GLN:HG3	1:D:3196:ARG:HE	1.57	0.68
1:C:842:PRO:O	1:C:1197:GLY:N	2.27	0.68
1:C:1101:ARG:NH1	1:C:1114:GLU:OE2	2.27	0.68
1:C:1290:ARG:O	1:C:1598:GLN:N	2.24	0.68
1:C:2369[B]:ARG:HB3	1:C:2373:GLY:HA2	1.76	0.68
1:C:3169:LEU:HD12	1:C:3172:ILE:HD11	1.74	0.68
1:C:4684:ASP:N	1:C:4684:ASP:OD1	2.25	0.68
1:A:172:VAL:HG13	1:A:179:TYR:CD1	2.29	0.68
1:B:1101:ARG:NH1	1:B:1114:GLU:OE2	2.27	0.68
1:B:2416:VAL:HG22	1:B:2491:SER:HB2	1.75	0.68
1:B:2441:HIS:HA	1:B:2444:GLN:HE21	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2788:HIS:HB3	1:B:2790:MET:HG3	1.76	0.68
1:B:3169:LEU:HD12	1:B:3172:ILE:HD11	1.75	0.68
1:B:4904:PRO:HB3	1:B:4913:ARG:HG2	1.76	0.68
1:D:2259:GLU:OE2	1:D:2260:ASN:ND2	2.26	0.68
1:C:357:LEU:HD11	1:C:376:ALA:HB1	1.74	0.68
1:C:1804:LEU:HB3	1:C:1853:ILE:HG21	1.75	0.68
1:A:4904:PRO:HB3	1:A:4913:ARG:HG2	1.76	0.67
1:B:172:VAL:HG13	1:B:179:TYR:CD1	2.29	0.67
1:B:2355:ARG:O	1:B:2359:ARG:HG2	1.93	0.67
1:B:2519:LEU:HA	1:B:2522:LEU:HD12	1.75	0.67
1:C:4904:PRO:HB3	1:C:4913:ARG:HG2	1.76	0.67
1:A:2519:LEU:HD13	1:A:2575:ARG:HG3	1.75	0.67
1:B:2358:ILE:HG13	1:B:2359:ARG:HE	1.59	0.67
1:B:2369[B]:ARG:HB3	1:B:2373:GLY:HA2	1.76	0.67
1:B:3801:GLY:HA3	1:B:3887:PHE:HE2	1.59	0.67
1:B:3921:ASP:HA	1:B:3924:LEU:HD12	1.76	0.67
1:D:4098:ASP:O	1:D:4101:LYS:NZ	2.23	0.67
1:C:2189:LYS:HZ3	1:C:2192:TYR:HB2	1.60	0.67
1:C:3921:ASP:HA	1:C:3924:LEU:HD12	1.76	0.67
1:A:562:GLU:OE2	1:A:598:LYS:NZ	2.26	0.67
1:A:2259:GLU:OE2	1:A:2260:ASN:ND2	2.26	0.67
1:A:3676:ASP:HA	1:A:3679:LYS:HE3	1.75	0.67
1:B:3145:GLN:HG3	1:B:3196:ARG:HE	1.57	0.67
1:D:504:ALA:O	1:D:508:GLY:N	2.27	0.67
1:C:4692:PRO:HG3	1:C:4703:ARG:HD2	1.75	0.67
1:A:1804:LEU:HB3	1:A:1853:ILE:HG21	1.75	0.67
1:A:2369[B]:ARG:HB3	1:A:2373:GLY:HA2	1.76	0.67
1:A:2416:VAL:HG22	1:A:2491:SER:HB2	1.75	0.67
1:A:3376:GLU:HA	1:A:3379:LEU:HD12	1.76	0.67
1:B:299:LEU:HD23	1:B:378:LEU:HG	1.76	0.67
1:B:3281:LEU:HD21	1:B:3312:LEU:HA	1.77	0.67
1:C:2259:GLU:OE2	1:C:2260:ASN:ND2	2.26	0.67
1:C:2694:GLU:HG2	1:C:2697:ARG:HE	1.60	0.67
1:C:3021:PRO:HD3	1:C:3030:HIS:CE1	2.30	0.67
1:C:3376:GLU:HA	1:C:3379:LEU:HD12	1.76	0.67
2:F:79:ASP:OD1	2:F:80:TYR:N	2.26	0.67
1:B:818:ARG:HD2	1:B:1028:ASP:HA	1.76	0.67
1:B:3021:PRO:HD3	1:B:3030:HIS:CE1	2.30	0.67
1:D:4692:PRO:HG3	1:D:4703:ARG:HD2	1.75	0.67
1:A:2519:LEU:HA	1:A:2522:LEU:HD12	1.75	0.67
1:A:3281:LEU:HD21	1:A:3312:LEU:HA	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3478:MET:CE	1:B:1141:ARG:HH12	2.07	0.67
1:B:3395:ARG:HA	1:B:3454:GLU:OE1	1.95	0.67
1:B:3676:ASP:HA	1:B:3679:LYS:HE3	1.75	0.67
1:D:2467:VAL:HG13	1:D:2524:VAL:HG21	1.77	0.67
1:D:3281:LEU:HD21	1:D:3312:LEU:HA	1.77	0.67
1:D:4904:PRO:HB3	1:D:4913:ARG:HG2	1.76	0.67
1:C:2467:VAL:HG13	1:C:2524:VAL:HG21	1.77	0.67
1:C:2519:LEU:HA	1:C:2522:LEU:HD12	1.75	0.67
1:C:3281:LEU:HD21	1:C:3312:LEU:HA	1.77	0.67
1:A:127:MET:SD	1:A:127:MET:N	2.64	0.67
1:A:1203:ASN:HB3	1:A:1211:LEU:HD21	1.77	0.67
1:A:3801:GLY:HA3	1:A:3887:PHE:HE2	1.59	0.67
2:H:7:ILE:HB	2:H:71:ARG:HG3	1.76	0.67
1:D:1221:GLU:OE2	1:D:1221:GLU:N	2.27	0.67
1:D:2788:HIS:HB3	1:D:2790:MET:HG3	1.76	0.67
1:D:3395:ARG:HA	1:D:3454:GLU:OE1	1.95	0.67
1:D:3801:GLY:HA3	1:D:3887:PHE:HE2	1.59	0.67
1:C:2788:HIS:HB3	1:C:2790:MET:HG3	1.76	0.67
1:C:3070:ILE:HG12	1:C:3073:ARG:HH21	1.59	0.67
1:B:183:SER:O	1:B:186:SER:OG	2.12	0.67
1:B:891:TRP:HA	1:B:902:ARG:HE	1.60	0.67
1:B:3206:LEU:HB3	1:B:3246:LEU:HB3	1.77	0.67
1:D:233:ILE:O	1:D:257:ARG:NH2	2.21	0.67
1:C:2358:ILE:HG13	1:C:2359:ARG:HE	1.59	0.67
1:A:2358:ILE:HG13	1:A:2359:ARG:HE	1.59	0.67
1:A:2441:HIS:HA	1:A:2444:GLN:HE21	1.59	0.67
1:A:2470:ILE:HD12	1:A:2499:LYS:HE2	1.77	0.67
1:A:2592:GLY:O	1:A:2600:ARG:NH1	2.23	0.67
1:B:3780:LEU:HA	1:B:3783:ILE:HD12	1.77	0.67
1:D:818:ARG:HD2	1:D:1028:ASP:HA	1.76	0.67
1:D:2163:ARG:HA	1:D:2166:LEU:HD12	1.77	0.67
1:C:3731:LYS:HA	1:C:3734:HIS:CE1	2.30	0.67
1:A:1208:VAL:HG11	1:D:3575:LEU:HD21	1.76	0.67
1:D:899:ASP:O	1:D:902:ARG:NH1	2.28	0.67
1:D:3921:ASP:HA	1:D:3924:LEU:HD12	1.76	0.67
1:A:296:ASP:OD2	1:A:297:GLN:NE2	2.28	0.66
1:A:2163:ARG:HA	1:A:2166:LEU:HD12	1.77	0.66
1:A:4197:ILE:O	1:A:4202:ARG:NH2	2.29	0.66
2:H:73:LYS:CE	1:D:719:LEU:HD23	2.25	0.66
1:B:2888:ARG:O	1:B:2892:GLN:NE2	2.26	0.66
1:B:3731:LYS:HA	1:B:3734:HIS:CE1	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2110:TYR:O	1:D:2112:GLN:NE2	2.28	0.66
1:D:2470:ILE:HD12	1:D:2499:LYS:HE2	1.77	0.66
1:D:3070:ILE:HG12	1:D:3073:ARG:HH21	1.59	0.66
1:C:2163:ARG:HA	1:C:2166:LEU:HD12	1.77	0.66
1:A:1141:ARG:NH2	1:D:3478:MET:HE2	2.10	0.66
2:F:23:VAL:HG23	2:F:47:LYS:HD2	1.77	0.66
1:B:3937:TYR:HA	1:B:3940:LYS:HG2	1.76	0.66
1:D:1203:ASN:HB3	1:D:1211:LEU:HD21	1.77	0.66
1:C:299:LEU:HD23	1:C:378:LEU:HG	1.77	0.66
1:C:2519:LEU:HD13	1:C:2575:ARG:HG3	1.75	0.66
1:C:3780:LEU:HA	1:C:3783:ILE:HD12	1.77	0.66
1:A:183:SER:O	1:A:186:SER:OG	2.12	0.66
1:A:3670:GLU:OE1	1:A:3731:LYS:NZ	2.29	0.66
2:E:27:THR:OG1	2:E:40:ARG:NH1	2.29	0.66
1:D:2358:ILE:HG13	1:D:2359:ARG:HE	1.59	0.66
1:D:3235:SER:OG	1:D:3237:GLU:OE1	2.14	0.66
1:C:2470:ILE:HD12	1:C:2499:LYS:HE2	1.77	0.66
1:A:984:LEU:HB3	1:A:987:ARG:HH21	1.60	0.66
1:A:3522:LEU:CB	1:B:1220:GLN:OE1	2.43	0.66
1:A:3731:LYS:HA	1:A:3734:HIS:CE1	2.30	0.66
1:A:3921:ASP:HA	1:A:3924:LEU:HD12	1.76	0.66
2:H:55:VAL:HG11	2:H:59:TRP:HE3	1.60	0.66
1:D:1804:LEU:HB3	1:D:1853:ILE:HG21	1.75	0.66
1:D:2416:VAL:HG22	1:D:2491:SER:HB2	1.75	0.66
1:D:2694:GLU:HG2	1:D:2697:ARG:HE	1.60	0.66
1:C:3078:ARG:NH2	1:C:3151:GLN:O	2.29	0.66
1:A:818:ARG:HD2	1:A:1028:ASP:HA	1.76	0.66
1:A:891:TRP:HA	1:A:902:ARG:HE	1.60	0.66
1:A:4711:PHE:HB3	1:A:4712:PRO:HD3	1.78	0.66
1:B:2467:VAL:HG13	1:B:2524:VAL:HG21	1.77	0.66
1:D:3021:PRO:HD3	1:D:3030:HIS:CE1	2.30	0.66
1:D:4963:ILE:HD13	1:D:5030:LYS:HZ1	1.60	0.66
1:C:2000:SER:O	1:C:2005:GLN:NE2	2.29	0.66
1:C:2276:ALA:O	1:C:2279:SER:OG	2.14	0.66
1:C:2441:HIS:HA	1:C:2444:GLN:HE21	1.59	0.66
1:C:3395:ARG:HA	1:C:3454:GLU:OE1	1.95	0.66
1:A:2467:VAL:HG13	1:A:2524:VAL:HG21	1.77	0.66
1:A:2495:VAL:HG23	1:A:2498:HIS:H	1.60	0.66
1:A:3937:TYR:HA	1:A:3940:LYS:HG2	1.76	0.66
1:B:899:ASP:O	1:B:902:ARG:NH1	2.28	0.66
1:B:3376:GLU:HA	1:B:3379:LEU:HD12	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:299:LEU:HD23	1:D:378:LEU:HG	1.77	0.66
1:D:2369[B]:ARG:HB3	1:D:2373:GLY:HA2	1.76	0.66
1:D:3780:LEU:HA	1:D:3783:ILE:HD12	1.77	0.66
1:A:2694:GLU:HG2	1:A:2697:ARG:HE	1.60	0.66
1:A:3051:ARG:NH2	1:A:3102:ASP:OD2	2.29	0.66
1:B:1623:ARG:HE	1:B:1624:LEU:HD22	1.61	0.66
1:B:2694:GLU:HG2	1:B:2697:ARG:HE	1.60	0.66
1:B:3078:ARG:NH2	1:B:3151:GLN:O	2.29	0.66
1:D:296:ASP:OD2	1:D:297:GLN:NE2	2.28	0.66
1:D:2189:LYS:HZ3	1:D:2192:TYR:HB2	1.60	0.66
1:D:3264:THR:OG1	1:D:3265:GLU:OE2	2.13	0.66
1:D:3504:SER:H	1:D:3507:THR:HG1	1.44	0.66
1:C:891:TRP:HA	1:C:902:ARG:HE	1.60	0.66
1:C:2495:VAL:HG23	1:C:2498:HIS:H	1.60	0.66
1:C:3130:THR:O	1:C:3134:VAL:HG12	1.96	0.66
1:A:884:LEU:HD21	1:A:969:PRO:HG3	1.78	0.66
1:A:1290:ARG:O	1:A:1598:GLN:N	2.24	0.66
1:A:3130:THR:O	1:A:3134:VAL:HG12	1.96	0.66
1:A:3896:ASN:ND2	1:A:3899:PHE:HB2	2.11	0.66
1:B:1203:ASN:HB3	1:B:1211:LEU:HD21	1.77	0.66
1:B:1290:ARG:O	1:B:1598:GLN:N	2.24	0.66
1:B:1671:ARG:HH21	1:B:1675:ALA:HA	1.61	0.66
1:B:2163:ARG:HA	1:B:2166:LEU:HD12	1.77	0.66
1:B:3070:ILE:HG12	1:B:3073:ARG:HH21	1.59	0.66
1:D:2000:SER:O	1:D:2005:GLN:NE2	2.29	0.66
1:D:3937:TYR:HA	1:D:3940:LYS:HG2	1.76	0.66
1:C:504:ALA:O	1:C:508:GLY:N	2.27	0.66
1:C:3504:SER:H	1:C:3507:THR:HG1	1.43	0.66
1:C:4711:PHE:HB3	1:C:4712:PRO:HD3	1.78	0.66
1:A:899:ASP:O	1:A:902:ARG:NH1	2.28	0.66
1:A:2110:TYR:O	1:A:2112:GLN:NE2	2.28	0.66
1:A:3395:ARG:HA	1:A:3454:GLU:OE1	1.95	0.66
2:E:54:GLU:OE1	2:E:54:GLU:N	2.27	0.66
1:B:842:PRO:O	1:B:1197:GLY:N	2.27	0.66
1:B:3264:THR:OG1	1:B:3265:GLU:OE2	2.13	0.66
1:B:4197:ILE:O	1:B:4202:ARG:NH2	2.29	0.66
1:D:2495:VAL:HG23	1:D:2498:HIS:H	1.60	0.66
1:D:4197:ILE:O	1:D:4202:ARG:NH2	2.28	0.66
1:C:818:ARG:HD2	1:C:1028:ASP:HA	1.76	0.66
1:C:1623:ARG:HE	1:C:1624:LEU:HD22	1.61	0.66
1:A:1931:LEU:HD22	1:A:1935:VAL:HG11	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2000:SER:O	1:A:2005:GLN:NE2	2.29	0.66
1:B:2000:SER:O	1:B:2005:GLN:NE2	2.29	0.66
1:D:842:PRO:O	1:D:1197:GLY:N	2.27	0.66
1:D:984:LEU:HB3	1:D:987:ARG:HH21	1.60	0.66
1:D:1623:ARG:HE	1:D:1624:LEU:HD22	1.61	0.66
1:D:1931:LEU:HD22	1:D:1935:VAL:HG11	1.78	0.66
1:D:3206:LEU:HB3	1:D:3246:LEU:HB3	1.77	0.66
1:C:828:GLU:OE2	1:C:831:ARG:NH1	2.29	0.66
1:C:1671:ARG:HH21	1:C:1675:ALA:HA	1.61	0.66
1:C:3206:LEU:HB3	1:C:3246:LEU:HB3	1.77	0.66
1:C:4197:ILE:O	1:C:4202:ARG:NH2	2.28	0.66
1:A:299:LEU:HD23	1:A:378:LEU:HG	1.76	0.65
1:B:317:ARG:O	1:B:347:PHE:N	2.22	0.65
1:B:3130:THR:O	1:B:3134:VAL:HG12	1.96	0.65
1:D:891:TRP:HA	1:D:902:ARG:HE	1.60	0.65
1:D:3731:LYS:HA	1:D:3734:HIS:CE1	2.30	0.65
1:C:173:SER:O	1:C:177:GLU:N	2.29	0.65
1:C:1221:GLU:OE2	1:C:1221:GLU:N	2.27	0.65
1:A:4098:ASP:O	1:A:4101:LYS:NZ	2.23	0.65
1:B:445:LEU:O	1:B:449:ILE:HG12	1.97	0.65
1:B:2495:VAL:HG23	1:B:2498:HIS:H	1.60	0.65
1:B:3367:LYS:HE2	1:B:3371:LYS:HZ1	1.61	0.65
1:B:4782:VAL:O	1:B:4785:THR:OG1	2.14	0.65
1:D:487:VAL:O	1:D:491:ILE:HG12	1.97	0.65
1:D:2620:GLN:HA	1:D:2623:LEU:HD12	1.78	0.65
1:C:899:ASP:O	1:C:902:ARG:NH1	2.28	0.65
1:C:984:LEU:HB3	1:C:987:ARG:HH21	1.60	0.65
1:C:1203:ASN:HB3	1:C:1211:LEU:HD21	1.77	0.65
1:C:3264:THR:OG1	1:C:3265:GLU:OE2	2.13	0.65
1:A:317:ARG:O	1:A:347:PHE:N	2.22	0.65
1:B:2470:ILE:HD12	1:B:2499:LYS:HE2	1.77	0.65
1:B:4880:MET:H	1:B:4880:MET:HE2	1.61	0.65
1:D:884:LEU:HD21	1:D:969:PRO:HG3	1.78	0.65
1:D:3896:ASN:ND2	1:D:3899:PHE:HB2	2.11	0.65
1:D:4669:VAL:HA	1:D:4672:LYS:HE2	1.77	0.65
1:C:487:VAL:O	1:C:491:ILE:HG12	1.97	0.65
1:C:3284:TRP:HB3	1:C:3305:THR:HG21	1.79	0.65
1:C:3937:TYR:HA	1:C:3940:LYS:HG2	1.76	0.65
1:A:2276:ALA:O	1:A:2279:SER:OG	2.14	0.65
1:A:3021:PRO:HD3	1:A:3030:HIS:CE1	2.30	0.65
1:A:3281:LEU:HD22	1:A:3315:LEU:HD13	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3417:ASP:OD1	1:A:3420:ARG:NH2	2.30	0.65
1:B:173:SER:O	1:B:177:GLU:N	2.29	0.65
1:B:246:TYR:HB2	1:B:373:LYS:HB2	1.79	0.65
1:B:884:LEU:HD21	1:B:969:PRO:HG3	1.78	0.65
1:B:3157:ILE:HG23	1:B:3161:VAL:HB	1.79	0.65
1:B:3575:LEU:HD21	1:C:1208:VAL:HG11	1.78	0.65
1:B:4711:PHE:HB3	1:B:4712:PRO:HD3	1.78	0.65
1:D:13:PHE:HE1	1:D:164:ARG:HD2	1.62	0.65
1:D:1101:ARG:NH1	1:D:1114:GLU:OE2	2.27	0.65
1:D:3281:LEU:HD22	1:D:3315:LEU:HD13	1.79	0.65
1:D:3545:THR:HG23	1:D:3548:GLU:H	1.62	0.65
1:A:2620:GLN:HA	1:A:2623:LEU:HD12	1.78	0.65
1:D:603:LEU:HG	1:D:1669:LEU:HD11	1.78	0.65
1:D:1207:ASP:O	1:D:1210:SER:OG	2.15	0.65
1:D:3051:ARG:NH2	1:D:3102:ASP:OD2	2.29	0.65
1:D:3130:THR:O	1:D:3134:VAL:HG12	1.96	0.65
1:D:3284:TRP:HB3	1:D:3305:THR:HG21	1.79	0.65
1:C:445:LEU:O	1:C:449:ILE:HG12	1.97	0.65
1:C:884:LEU:HD21	1:C:969:PRO:HG3	1.78	0.65
1:C:3417:ASP:OD1	1:C:3420:ARG:NH2	2.30	0.65
1:A:504:ALA:O	1:A:508:GLY:N	2.27	0.65
1:A:1623:ARG:HE	1:A:1624:LEU:HD22	1.61	0.65
1:A:1671:ARG:HH21	1:A:1675:ALA:HA	1.61	0.65
1:B:828:GLU:OE2	1:B:831:ARG:NH1	2.29	0.65
1:B:3102:ASP:OD1	1:B:3105:LYS:NZ	2.30	0.65
1:B:3103:ILE:HA	1:B:3106:MET:HG2	1.79	0.65
1:B:3284:TRP:HB3	1:B:3305:THR:HG21	1.79	0.65
1:B:3670:GLU:OE1	1:B:3731:LYS:NZ	2.29	0.65
1:B:4772:ASP:O	1:B:4776:GLN:NE2	2.30	0.65
1:D:4639:MET:N	1:D:4639:MET:SD	2.70	0.65
1:C:3157:ILE:HG23	1:C:3161:VAL:HB	1.78	0.65
1:A:246:TYR:HB2	1:A:373:LYS:HB2	1.79	0.65
1:A:308:HIS:NE2	1:A:310:LYS:HB3	2.12	0.65
1:A:2437:ALA:O	1:A:2508:ARG:NH2	2.30	0.65
1:A:3545:THR:HG23	1:A:3548:GLU:H	1.61	0.65
1:A:3875:MET:HB2	1:A:3953:LYS:HE2	1.78	0.65
1:B:681:HIS:HE1	1:B:683:ARG:HB2	1.62	0.65
1:B:2746:ILE:HD12	1:B:2746:ILE:H	1.62	0.65
1:B:3896:ASN:ND2	1:B:3899:PHE:HB2	2.11	0.65
1:B:4583:SER:O	1:B:4629:TYR:N	2.30	0.65
1:D:445:LEU:O	1:D:449:ILE:HG12	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:828:GLU:OE2	1:D:831:ARG:NH1	2.29	0.65
1:D:1727:ARG:HA	1:D:1730:MET:HE3	1.77	0.65
1:D:3417:ASP:OD1	1:D:3420:ARG:NH2	2.30	0.65
1:D:4772:ASP:O	1:D:4776:GLN:NE2	2.30	0.65
1:C:3081:MET:HG2	1:C:3156:VAL:HA	1.79	0.65
1:C:3545:THR:HG23	1:C:3548:GLU:H	1.61	0.65
1:A:2639:MET:HA	1:A:2642:LYS:HD2	1.79	0.65
1:A:2746:ILE:H	1:A:2746:ILE:HD12	1.62	0.65
1:A:3206:LEU:HB3	1:A:3246:LEU:HB3	1.77	0.65
1:A:4782:VAL:O	1:A:4785:THR:OG1	2.14	0.65
1:B:3450:ASN:O	1:B:3454:GLU:HG3	1.97	0.65
1:D:168:ASP:HB3	1:D:199:LEU:HD11	1.79	0.65
1:D:3648:ARG:O	1:D:3652:MET:HG2	1.97	0.65
1:D:4711:PHE:HB3	1:D:4712:PRO:HD3	1.78	0.65
1:C:308:HIS:NE2	1:C:310:LYS:HB3	2.12	0.65
1:C:3035:GLU:O	1:C:3039:ILE:HG13	1.97	0.65
1:C:3875:MET:HB2	1:C:3953:LYS:HE2	1.78	0.65
1:C:4669:VAL:HA	1:C:4672:LYS:HE2	1.78	0.65
1:A:828:GLU:OE2	1:A:831:ARG:NH1	2.29	0.65
1:A:3078:ARG:NH2	1:A:3151:GLN:O	2.29	0.65
1:A:4669:VAL:HA	1:A:4672:LYS:HE2	1.78	0.65
1:B:984:LEU:HB3	1:B:987:ARG:HH21	1.60	0.65
1:D:1671:ARG:HH21	1:D:1675:ALA:HA	1.61	0.65
1:C:603:LEU:HG	1:C:1669:LEU:HD11	1.78	0.65
1:C:3051:ARG:NH2	1:C:3102:ASP:OD2	2.29	0.65
1:C:3103:ILE:HA	1:C:3106:MET:HG2	1.79	0.65
1:C:4003:LEU:HD23	1:C:4009:GLN:HB3	1.78	0.65
1:C:4098:ASP:O	1:C:4101:LYS:NZ	2.23	0.65
1:A:513:GLU:OE2	1:A:513:GLU:N	2.30	0.65
1:A:590:LEU:HB3	1:A:631:LEU:HD21	1.79	0.65
1:A:3575:LEU:HD21	1:B:1208:VAL:HG11	1.77	0.65
1:A:3780:LEU:HA	1:A:3783:ILE:HD12	1.77	0.65
2:H:7:ILE:HG12	1:D:719:LEU:HD21	1.79	0.65
2:H:88:PRO:CB	1:D:623:GLU:OE2	2.43	0.65
1:B:504:ALA:O	1:B:508:GLY:N	2.27	0.65
1:B:3235:SER:OG	1:B:3237:GLU:OE1	2.14	0.65
1:D:13:PHE:HB3	1:D:100:THR:HG21	1.79	0.65
1:C:1948:ASP:OD1	1:C:2126:ARG:NH2	2.30	0.65
1:C:2746:ILE:H	1:C:2746:ILE:HD12	1.62	0.65
1:C:3235:SER:OG	1:C:3237:GLU:OE1	2.14	0.65
1:A:13:PHE:HE1	1:A:164:ARG:HD2	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1649:ASP:HB3	1:A:1652:GLU:HG3	1.79	0.64
2:F:78:PRO:HA	2:F:81:ALA:HB3	1.80	0.64
1:B:513:GLU:N	1:B:513:GLU:OE2	2.30	0.64
1:B:2437:ALA:O	1:B:2508:ARG:NH2	2.30	0.64
1:B:2974:ILE:HG21	1:B:3049:LEU:HG	1.79	0.64
1:B:3009:TYR:O	1:B:3013:HIS:ND1	2.30	0.64
1:B:3417:ASP:OD1	1:B:3420:ARG:NH2	2.30	0.64
1:B:3767:GLN:NE2	1:B:3806:ASN:O	2.29	0.64
1:B:4098:ASP:O	1:B:4101:LYS:NZ	2.23	0.64
1:D:140:ASP:OD1	1:D:141:ALA:N	2.31	0.64
1:D:1208:VAL:HG11	1:C:3575:LEU:HD21	1.79	0.64
1:D:2276:ALA:O	1:D:2279:SER:OG	2.14	0.64
1:C:13:PHE:HB3	1:C:100:THR:HG21	1.79	0.64
1:A:140:ASP:OD1	1:A:141:ALA:N	2.31	0.64
1:A:681:HIS:HE1	1:A:683:ARG:HB2	1.62	0.64
1:A:2165:LEU:HD23	1:A:2178:MET:HG3	1.79	0.64
1:A:3081:MET:HG2	1:A:3156:VAL:HA	1.79	0.64
1:A:3264:THR:OG1	1:A:3265:GLU:OE2	2.13	0.64
1:D:2639:MET:HA	1:D:2642:LYS:HD2	1.79	0.64
1:D:3081:MET:HG2	1:D:3156:VAL:HA	1.79	0.64
1:D:4583:SER:O	1:D:4629:TYR:N	2.30	0.64
1:C:246:TYR:HB2	1:C:373:LYS:HB2	1.79	0.64
1:C:2437:ALA:O	1:C:2508:ARG:NH2	2.30	0.64
1:C:2559:LEU:HD11	1:C:2603:ILE:HG12	1.79	0.64
1:C:3009:TYR:O	1:C:3013:HIS:ND1	2.30	0.64
1:C:3281:LEU:HD22	1:C:3315:LEU:HD13	1.79	0.64
1:A:13:PHE:HB3	1:A:100:THR:HG21	1.79	0.64
1:A:1207:ASP:O	1:A:1210:SER:OG	2.15	0.64
1:A:2974:ILE:HG21	1:A:3049:LEU:HG	1.79	0.64
1:A:3450:ASN:O	1:A:3454:GLU:HG3	1.97	0.64
2:H:26:TYR:N	2:H:39:SER:OG	2.28	0.64
1:B:487:VAL:O	1:B:491:ILE:HG12	1.97	0.64
1:B:603:LEU:HG	1:B:1669:LEU:HD11	1.78	0.64
1:B:765:GLN:OE1	1:B:765:GLN:N	2.30	0.64
1:B:2306:GLY:HA2	1:B:2323:TRP:HB2	1.80	0.64
1:B:3051:ARG:NH2	1:B:3102:ASP:OD2	2.29	0.64
1:B:3648:ARG:O	1:B:3652:MET:HG2	1.97	0.64
1:B:3842:LEU:HB2	1:B:3929:SER:HB2	1.79	0.64
1:B:4669:VAL:HA	1:B:4672:LYS:HE2	1.78	0.64
1:D:765:GLN:N	1:D:765:GLN:OE1	2.30	0.64
1:D:2974:ILE:HG21	1:D:3049:LEU:HG	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3035:GLU:O	1:D:3039:ILE:HG13	1.97	0.64
1:D:3102:ASP:OD1	1:D:3105:LYS:NZ	2.30	0.64
1:D:4003:LEU:HD23	1:D:4009:GLN:HB3	1.79	0.64
1:D:4159:ARG:HA	1:D:4162:ASN:HD22	1.63	0.64
1:C:590:LEU:HB3	1:C:631:LEU:HD21	1.80	0.64
1:C:2974:ILE:HG21	1:C:3049:LEU:HG	1.79	0.64
1:C:3648:ARG:O	1:C:3652:MET:HG2	1.97	0.64
1:C:3896:ASN:ND2	1:C:3899:PHE:HB2	2.11	0.64
1:A:445:LEU:O	1:A:449:ILE:HG12	1.97	0.64
1:A:871:ARG:HA	1:A:874:LEU:HG	1.80	0.64
1:A:3284:TRP:HB3	1:A:3305:THR:HG21	1.79	0.64
1:A:3473:ASP:OD1	1:A:3477:LYS:NZ	2.31	0.64
1:A:3842:LEU:HB2	1:A:3929:SER:HB2	1.79	0.64
1:A:4639:MET:N	1:A:4639:MET:SD	2.70	0.64
1:B:4639:MET:N	1:B:4639:MET:SD	2.70	0.64
1:D:1463:ASN:O	1:D:1468:LYS:NZ	2.24	0.64
1:D:2559:LEU:HD11	1:D:2603:ILE:HG12	1.79	0.64
1:D:2746:ILE:H	1:D:2746:ILE:HD12	1.62	0.64
1:C:2306:GLY:HA2	1:C:2323:TRP:HB2	1.80	0.64
1:C:3203:VAL:HG13	1:C:3211:ASN:HD22	1.62	0.64
1:C:4639:MET:SD	1:C:4639:MET:N	2.70	0.64
1:A:628:GLY:O	2:E:34:LYS:NZ	2.30	0.64
1:A:790:ARG:NH1	1:A:1624:LEU:O	2.31	0.64
1:A:842:PRO:O	1:A:1197:GLY:N	2.27	0.64
1:A:2277:ALA:HB1	1:A:2337:PHE:HD2	1.63	0.64
1:A:2306:GLY:HA2	1:A:2323:TRP:HB2	1.80	0.64
1:B:13:PHE:HB3	1:B:100:THR:HG21	1.79	0.64
1:B:140:ASP:OD1	1:B:141:ALA:N	2.31	0.64
1:B:1931:LEU:HD22	1:B:1935:VAL:HG11	1.78	0.64
1:B:2553:TYR:HA	1:B:2556:LEU:HD12	1.80	0.64
1:B:3035:GLU:O	1:B:3039:ILE:HG13	1.97	0.64
1:D:308:HIS:NE2	1:D:310:LYS:HB3	2.12	0.64
1:D:1457:TYR:HB2	1:D:1491:ASN:HB2	1.80	0.64
1:D:1996:ARG:HA	1:D:1999:ARG:HB2	1.80	0.64
1:D:3450:ASN:O	1:D:3454:GLU:HG3	1.97	0.64
1:C:513:GLU:N	1:C:513:GLU:OE2	2.30	0.64
1:C:3227:ARG:HH21	1:C:3232:LEU:HD22	1.62	0.64
1:C:3450:ASN:O	1:C:3454:GLU:HG3	1.97	0.64
1:C:4583:SER:O	1:C:4629:TYR:N	2.30	0.64
1:A:487:VAL:O	1:A:491:ILE:HG12	1.97	0.64
1:A:2490:MET:N	1:A:2490:MET:SD	2.71	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3035:GLU:O	1:A:3039:ILE:HG13	1.97	0.64
2:F:54:GLU:OE1	2:F:54:GLU:N	2.29	0.64
1:B:13:PHE:HE1	1:B:164:ARG:HD2	1.62	0.64
1:B:590:LEU:HB3	1:B:631:LEU:HD21	1.80	0.64
1:B:2559:LEU:HD11	1:B:2603:ILE:HG12	1.79	0.64
1:B:3545:THR:HG23	1:B:3548:GLU:H	1.61	0.64
1:D:513:GLU:N	1:D:513:GLU:OE2	2.30	0.64
1:D:3157:ILE:HG23	1:D:3161:VAL:HB	1.78	0.64
1:C:140:ASP:OD1	1:C:141:ALA:N	2.31	0.64
1:C:233:ILE:O	1:C:257:ARG:NH2	2.21	0.64
1:C:4772:ASP:O	1:C:4776:GLN:NE2	2.30	0.64
1:A:1220:GLN:OE1	1:D:3522:LEU:CB	2.45	0.64
1:A:1948:ASP:OD1	1:A:2126:ARG:NH2	2.30	0.64
1:A:3504:SER:H	1:A:3507:THR:HG1	1.46	0.64
1:A:4583:SER:O	1:A:4629:TYR:N	2.30	0.64
1:B:1527:MET:HG2	1:B:1540:PHE:HB2	1.80	0.64
1:B:3478:MET:HE2	1:C:1141:ARG:NH2	2.12	0.64
1:D:173:SER:O	1:D:177:GLU:N	2.29	0.64
1:D:246:TYR:HB2	1:D:373:LYS:HB2	1.79	0.64
1:D:681:HIS:HE1	1:D:683:ARG:HB2	1.62	0.64
1:D:790:ARG:NH1	1:D:1624:LEU:O	2.31	0.64
1:D:871:ARG:HA	1:D:874:LEU:HG	1.79	0.64
1:D:1070:ASP:OD1	1:D:1241:SER:OG	2.16	0.64
1:D:2165:LEU:HD23	1:D:2178:MET:HG3	1.79	0.64
1:D:2437:ALA:O	1:D:2508:ARG:NH2	2.30	0.64
1:D:3203:VAL:HG13	1:D:3211:ASN:HD22	1.62	0.64
1:C:1457:TYR:HB2	1:C:1491:ASN:HB2	1.80	0.64
1:C:3005:LEU:HA	1:C:3008:GLN:HE21	1.63	0.64
1:A:603:LEU:HG	1:A:1669:LEU:HD11	1.78	0.64
1:A:2559:LEU:HD11	1:A:2603:ILE:HG12	1.79	0.64
1:A:3235:SER:OG	1:A:3237:GLU:OE1	2.14	0.64
1:A:4003:LEU:HD23	1:A:4009:GLN:HB3	1.79	0.64
1:A:4772:ASP:O	1:A:4776:GLN:NE2	2.30	0.64
1:B:1649:ASP:HB3	1:B:1652:GLU:HG3	1.79	0.64
1:B:2515:GLN:OE1	1:B:2515:GLN:N	2.28	0.64
1:D:1948:ASP:OD1	1:D:2126:ARG:NH2	2.30	0.64
1:D:2306:GLY:HA2	1:D:2323:TRP:HB2	1.80	0.64
1:D:3078:ARG:NH2	1:D:3151:GLN:O	2.29	0.64
1:C:13:PHE:HE1	1:C:164:ARG:HD2	1.62	0.64
1:C:2592:GLY:O	1:C:2600:ARG:NH1	2.23	0.64
1:A:2175:GLU:HB2	1:A:2228:MET:HE3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:168:ASP:HB3	1:B:199:LEU:HD11	1.79	0.64
1:B:308:HIS:NE2	1:B:310:LYS:HB3	2.12	0.64
1:B:3005:LEU:HA	1:B:3008:GLN:HE21	1.63	0.64
1:B:3875:MET:HB2	1:B:3953:LYS:HE2	1.78	0.64
1:D:1804:LEU:HD13	1:D:1853:ILE:HG13	1.80	0.64
1:D:3875:MET:HB2	1:D:3953:LYS:HE2	1.78	0.64
1:C:2490:MET:N	1:C:2490:MET:SD	2.71	0.64
1:C:2553:TYR:HA	1:C:2556:LEU:HD12	1.80	0.64
1:A:3227:ARG:HH21	1:A:3232:LEU:HD22	1.62	0.64
1:A:3648:ARG:O	1:A:3652:MET:HG2	1.97	0.64
2:G:7:ILE:HA	1:C:719:LEU:HD21	1.80	0.64
2:G:48:PHE:HZ	2:G:63:VAL:HG11	1.63	0.64
1:B:179:TYR:N	1:B:194:SER:O	2.31	0.64
1:B:2276:ALA:O	1:B:2279:SER:OG	2.14	0.64
1:B:3081:MET:HG2	1:B:3156:VAL:HA	1.79	0.64
1:D:2277:ALA:HB1	1:D:2337:PHE:HD2	1.63	0.64
1:D:2489:LYS:NZ	1:D:2491:SER:OG	2.22	0.64
1:D:3009:TYR:O	1:D:3013:HIS:ND1	2.30	0.64
1:D:3473:ASP:OD1	1:D:3477:LYS:NZ	2.31	0.64
1:C:1527:MET:HG2	1:C:1540:PHE:HB2	1.80	0.64
1:C:1804:LEU:HD13	1:C:1853:ILE:HG13	1.80	0.64
1:A:173:SER:O	1:A:177:GLU:N	2.29	0.63
1:A:179:TYR:N	1:A:194:SER:O	2.31	0.63
1:A:1996:ARG:HA	1:A:1999:ARG:HB2	1.80	0.63
2:H:7:ILE:HG12	1:D:719:LEU:CD2	2.28	0.63
1:B:3281:LEU:HD22	1:B:3315:LEU:HD13	1.79	0.63
1:B:4003:LEU:HD23	1:B:4009:GLN:HB3	1.79	0.63
1:B:4159:ARG:HA	1:B:4162:ASN:HD22	1.63	0.63
1:D:590:LEU:HB3	1:D:631:LEU:HD21	1.80	0.63
1:D:1617:THR:HG22	1:D:1628:VAL:HG12	1.80	0.63
1:D:1640:HIS:HE1	1:D:1645:ASN:HA	1.64	0.63
1:D:2623:LEU:O	1:D:2627:VAL:HG23	1.99	0.63
1:D:3227:ARG:HH21	1:D:3232:LEU:HD22	1.62	0.63
1:C:1649:ASP:HB3	1:C:1652:GLU:HG3	1.79	0.63
1:C:1931:LEU:HD22	1:C:1935:VAL:HG11	1.78	0.63
1:C:2165:LEU:HD23	1:C:2178:MET:HG3	1.79	0.63
1:C:3714:SER:O	1:C:3787:LYS:NZ	2.31	0.63
1:A:1070:ASP:OD1	1:A:1241:SER:OG	2.16	0.63
1:A:1527:MET:HG2	1:A:1540:PHE:HB2	1.80	0.63
1:A:1804:LEU:HD13	1:A:1853:ILE:HG13	1.80	0.63
1:A:3103:ILE:HA	1:A:3106:MET:HG2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2110:TYR:O	1:B:2112:GLN:NE2	2.28	0.63
1:B:3714:SER:O	1:B:3787:LYS:NZ	2.31	0.63
1:D:533:ASN:ND2	1:D:536:ASN:OD1	2.30	0.63
1:C:183:SER:O	1:C:186:SER:OG	2.12	0.63
1:C:1070:ASP:OD1	1:C:1241:SER:OG	2.16	0.63
1:C:4159:ARG:HA	1:C:4162:ASN:HD22	1.63	0.63
1:A:168:ASP:HB3	1:A:199:LEU:HD11	1.79	0.63
1:A:181:HIS:ND1	1:A:198:THR:OG1	2.28	0.63
1:A:1457:TYR:HB2	1:A:1491:ASN:HB2	1.80	0.63
1:A:3009:TYR:O	1:A:3013:HIS:ND1	2.30	0.63
2:H:88:PRO:HA	1:D:623:GLU:OE1	1.98	0.63
1:B:2490:MET:SD	1:B:2490:MET:N	2.71	0.63
1:B:2639:MET:HA	1:B:2642:LYS:HD2	1.79	0.63
1:B:4844:LEU:HB2	1:B:4928:LEU:HD21	1.81	0.63
1:D:2453:ILE:HA	1:D:2456:ILE:HD12	1.81	0.63
1:C:168:ASP:HB3	1:C:199:LEU:HD11	1.79	0.63
1:C:790:ARG:NH1	1:C:1624:LEU:O	2.31	0.63
1:C:1207:ASP:O	1:C:1210:SER:OG	2.15	0.63
1:C:2453:ILE:HA	1:C:2456:ILE:HD12	1.81	0.63
1:C:3473:ASP:OD1	1:C:3477:LYS:NZ	2.31	0.63
1:A:2489:LYS:NZ	1:A:2491:SER:OG	2.22	0.63
1:A:2555:CYS:HB2	1:A:2599:GLN:HE21	1.63	0.63
1:A:3157:ILE:HG23	1:A:3161:VAL:HB	1.79	0.63
1:A:3523:ASN:N	1:B:1220:GLN:OE1	2.30	0.63
1:A:3767:GLN:NE2	1:A:3806:ASN:O	2.29	0.63
1:B:1207:ASP:O	1:B:1210:SER:OG	2.15	0.63
1:B:1948:ASP:OD1	1:B:2126:ARG:NH2	2.30	0.63
1:B:3203:VAL:HG13	1:B:3211:ASN:HD22	1.62	0.63
1:B:3473:ASP:OD1	1:B:3477:LYS:NZ	2.31	0.63
1:D:183:SER:O	1:D:186:SER:OG	2.12	0.63
1:D:329:ARG:NH2	1:D:330:ASP:O	2.32	0.63
1:C:329:ARG:NH2	1:C:330:ASP:O	2.32	0.63
1:C:681:HIS:HE1	1:C:683:ARG:HB2	1.62	0.63
1:C:712:TYR:HA	1:C:1470:ARG:HH21	1.64	0.63
1:C:2515:GLN:OE1	1:C:2515:GLN:N	2.28	0.63
1:C:4844:LEU:HB2	1:C:4928:LEU:HD21	1.81	0.63
1:A:16:THR:HA	1:A:69:LEU:HD11	1.81	0.63
1:A:1640:HIS:HE1	1:A:1645:ASN:HA	1.64	0.63
1:A:1676:LEU:HD11	1:A:2168:VAL:HA	1.81	0.63
1:A:3203:VAL:HG13	1:A:3211:ASN:HD22	1.62	0.63
1:A:3714:SER:O	1:A:3787:LYS:NZ	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4159:ARG:HA	1:A:4162:ASN:HD22	1.63	0.63
1:B:2883:HIS:HE1	1:B:2905:LEU:HD22	1.64	0.63
1:B:4582:VAL:CG2	1:C:4877:ASP:HA	2.29	0.63
1:D:1131:ARG:HH11	1:D:1139:PHE:HB2	1.64	0.63
1:D:1676:LEU:HD11	1:D:2168:VAL:HA	1.81	0.63
1:D:2490:MET:N	1:D:2490:MET:SD	2.71	0.63
1:D:3103:ILE:HA	1:D:3106:MET:HG2	1.79	0.63
1:D:3714:SER:O	1:D:3787:LYS:NZ	2.31	0.63
1:A:2203:MET:N	1:A:2203:MET:SD	2.72	0.63
1:A:2883:HIS:HE1	1:A:2905:LEU:HD22	1.64	0.63
1:A:3005:LEU:HA	1:A:3008:GLN:HE21	1.63	0.63
1:A:3102:ASP:OD1	1:A:3105:LYS:NZ	2.30	0.63
1:B:476:SER:O	1:B:480:GLU:HG2	1.99	0.63
1:B:2620:GLN:HA	1:B:2623:LEU:HD12	1.78	0.63
1:B:4053:SER:O	1:B:4056:GLU:HG2	1.99	0.63
1:D:16:THR:HA	1:D:69:LEU:HD11	1.81	0.63
1:D:1733:GLU:OE2	1:D:2163:ARG:NH1	2.32	0.63
1:D:2553:TYR:HA	1:D:2556:LEU:HD12	1.80	0.63
1:D:2555:CYS:HB2	1:D:2599:GLN:HE21	1.63	0.63
1:C:1996:ARG:HA	1:C:1999:ARG:HB2	1.80	0.63
1:C:4053:SER:O	1:C:4056:GLU:HG2	1.99	0.63
1:A:476:SER:O	1:A:480:GLU:HG2	1.99	0.63
1:A:1733:GLU:OE2	1:A:2163:ARG:NH1	2.32	0.63
1:B:1995:THR:O	1:B:1999:ARG:N	2.31	0.63
1:B:2165:LEU:HD23	1:B:2178:MET:HG3	1.79	0.63
1:D:712:TYR:HA	1:D:1470:ARG:HH21	1.64	0.63
1:D:1649:ASP:HB3	1:D:1652:GLU:HG3	1.79	0.63
1:D:3842:LEU:HB2	1:D:3929:SER:HB2	1.79	0.63
1:D:4248:ALA:HA	1:D:4251:ILE:HG12	1.81	0.63
1:C:179:TYR:N	1:C:194:SER:O	2.32	0.63
1:C:2110:TYR:O	1:C:2112:GLN:NE2	2.28	0.63
1:C:2620:GLN:HA	1:C:2623:LEU:HD12	1.78	0.63
1:C:2623:LEU:O	1:C:2627:VAL:HG23	1.99	0.63
1:C:4248:ALA:HA	1:C:4251:ILE:HG12	1.81	0.63
1:A:2423:MET:CE	1:A:2494:PHE:HA	2.29	0.63
1:A:2623:LEU:O	1:A:2627:VAL:HG23	1.99	0.63
1:B:273:HIS:ND1	1:B:335:GLY:O	2.32	0.63
1:B:1221:GLU:OE2	1:B:1221:GLU:N	2.27	0.63
1:B:3522:LEU:CB	1:C:1220:GLN:OE1	2.47	0.63
1:B:4732:PHE:O	1:B:4736:ARG:NE	2.32	0.63
1:D:1527:MET:HG2	1:D:1540:PHE:HB2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:871:ARG:HA	1:C:874:LEU:HG	1.80	0.63
1:C:2639:MET:HA	1:C:2642:LYS:HD2	1.79	0.63
1:C:3428:ASN:ND2	1:C:3430:ASN:OD1	2.29	0.63
1:A:273:HIS:ND1	1:A:335:GLY:O	2.32	0.63
1:B:329:ARG:NH2	1:B:330:ASP:O	2.32	0.63
1:B:871:ARG:HA	1:B:874:LEU:HG	1.79	0.63
1:B:1125:ASN:HD22	1:B:1128:ARG:HD2	1.64	0.63
1:B:1640:HIS:HE1	1:B:1645:ASN:HA	1.64	0.63
1:B:1733:GLU:OE2	1:B:2163:ARG:NH1	2.32	0.63
1:B:2203:MET:N	1:B:2203:MET:SD	2.72	0.63
1:B:3227:ARG:HH21	1:B:3232:LEU:HD22	1.62	0.63
1:D:3428:ASN:ND2	1:D:3430:ASN:OD1	2.29	0.63
1:D:3996:PHE:O	1:D:4000:MET:HG3	1.99	0.63
1:C:1733:GLU:OE2	1:C:2163:ARG:NH1	2.32	0.63
1:A:2553:TYR:HA	1:A:2556:LEU:HD12	1.80	0.62
1:A:4580:TYR:CD2	1:A:4632:LEU:HB2	2.33	0.62
2:E:105:LYS:NZ	2:E:107:GLU:HG3	2.13	0.62
1:B:1070:ASP:OD1	1:B:1241:SER:OG	2.16	0.62
1:B:1617:THR:HG22	1:B:1628:VAL:HG12	1.80	0.62
1:B:1804:LEU:HD13	1:B:1853:ILE:HG13	1.80	0.62
1:B:2697:ARG:HA	1:B:2700:MET:SD	2.39	0.62
1:D:179:TYR:N	1:D:194:SER:O	2.32	0.62
1:D:206:CYS:HB2	1:D:271:GLY:HA3	1.81	0.62
1:D:3005:LEU:HA	1:D:3008:GLN:HE21	1.63	0.62
1:C:296:ASP:OD2	1:C:297:GLN:NE2	2.28	0.62
1:C:3842:LEU:HB2	1:C:3929:SER:HB2	1.79	0.62
1:C:4732:PHE:O	1:C:4736:ARG:NE	2.32	0.62
1:A:329:ARG:NH2	1:A:330:ASP:O	2.32	0.62
1:B:973:SER:O	1:B:976:ARG:NH2	2.33	0.62
1:B:1254:HIS:HA	1:B:1276:THR:HG23	1.82	0.62
1:D:476:SER:O	1:D:480:GLU:HG2	1.99	0.62
1:D:3092:LEU:HG	1:D:3096:PHE:CZ	2.34	0.62
1:C:476:SER:O	1:C:480:GLU:HG2	1.99	0.62
1:C:1676:LEU:HD11	1:C:2168:VAL:HA	1.81	0.62
1:C:2277:ALA:HB1	1:C:2337:PHE:HD2	1.63	0.62
1:C:2555:CYS:HB2	1:C:2599:GLN:HE21	1.63	0.62
1:A:2189:LYS:HZ3	1:A:2192:TYR:HB2	1.63	0.62
1:A:4844:LEU:HB2	1:A:4928:LEU:HD21	1.81	0.62
1:B:790:ARG:NH1	1:B:1624:LEU:O	2.31	0.62
1:B:1457:TYR:HB2	1:B:1491:ASN:HB2	1.80	0.62
1:B:1676:LEU:HD11	1:B:2168:VAL:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1982:ARG:O	1:B:1982:ARG:NE	2.32	0.62
1:B:2623:LEU:O	1:B:2627:VAL:HG23	1.99	0.62
1:B:2967:MET:HE3	1:B:3042:LEU:HD22	1.81	0.62
1:B:3366:ARG:HA	1:B:3441:ILE:HD11	1.82	0.62
1:D:273:HIS:ND1	1:D:335:GLY:O	2.32	0.62
1:D:1254:HIS:HA	1:D:1276:THR:HG23	1.82	0.62
1:D:2514:ASN:HB2	1:D:2517:PHE:HB3	1.81	0.62
1:D:3367:LYS:HE2	1:D:3371:LYS:HZ1	1.65	0.62
1:C:3996:PHE:O	1:C:4000:MET:HG3	1.99	0.62
1:A:712:TYR:HA	1:A:1470:ARG:HH21	1.64	0.62
1:A:1254:HIS:HA	1:A:1276:THR:HG23	1.82	0.62
1:A:2514:ASN:HB2	1:A:2517:PHE:HB3	1.81	0.62
1:B:598:LYS:O	1:B:602:VAL:HG23	2.00	0.62
1:B:1996:ARG:HA	1:B:1999:ARG:HB2	1.80	0.62
1:B:2782:ASP:HB2	1:B:2785:LEU:HB2	1.81	0.62
1:D:598:LYS:O	1:D:602:VAL:HG23	2.00	0.62
1:D:2203:MET:N	1:D:2203:MET:SD	2.72	0.62
1:D:4732:PHE:O	1:D:4736:ARG:NE	2.32	0.62
1:D:4844:LEU:HB2	1:D:4928:LEU:HD21	1.81	0.62
1:C:973:SER:O	1:C:976:ARG:NH2	2.33	0.62
1:C:2514:ASN:HB2	1:C:2517:PHE:HB3	1.81	0.62
1:C:2967:MET:HE3	1:C:3042:LEU:HD22	1.80	0.62
1:A:850:ASP:OD1	1:A:850:ASP:N	2.33	0.62
1:A:1982:ARG:NE	1:A:1982:ARG:O	2.32	0.62
1:A:2321:ILE:HD12	1:A:2418:LEU:HD21	1.82	0.62
1:A:2599:GLN:O	1:A:2603:ILE:HG13	2.00	0.62
1:A:3366:ARG:HA	1:A:3441:ILE:HD11	1.82	0.62
1:A:3367:LYS:HE2	1:A:3371:LYS:HZ1	1.64	0.62
2:E:78:PRO:HA	2:E:81:ALA:HB3	1.81	0.62
1:B:16:THR:HA	1:B:69:LEU:HD11	1.81	0.62
1:B:1451:GLY:HA3	1:B:1494:MET:HA	1.81	0.62
1:B:2321:ILE:HD12	1:B:2418:LEU:HD21	1.81	0.62
1:B:2514:ASN:HB2	1:B:2517:PHE:HB3	1.81	0.62
1:B:2555:CYS:HB2	1:B:2599:GLN:HE21	1.63	0.62
1:D:1125:ASN:HD22	1:D:1128:ARG:HD2	1.64	0.62
1:D:1162:PHE:HB3	1:D:1169:LEU:HD12	1.82	0.62
1:D:2321:ILE:HD12	1:D:2418:LEU:HD21	1.82	0.62
1:D:2599:GLN:O	1:D:2603:ILE:HG13	2.00	0.62
1:D:2967:MET:HE3	1:D:3042:LEU:HD22	1.80	0.62
1:C:1131:ARG:HH11	1:C:1139:PHE:HB2	1.64	0.62
1:C:1617:THR:HG22	1:C:1628:VAL:HG12	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2599:GLN:O	1:C:2603:ILE:HG13	2.00	0.62
1:A:1131:ARG:HH11	1:A:1139:PHE:HB2	1.64	0.62
1:A:1162:PHE:HB3	1:A:1169:LEU:HD12	1.82	0.62
1:A:2452:ARG:NH1	1:B:174:VAL:O	2.32	0.62
1:A:2697:ARG:HA	1:A:2700:MET:SD	2.39	0.62
1:A:3782:MET:HE2	1:A:3797:THR:HB	1.81	0.62
1:B:2423:MET:CE	1:B:2494:PHE:HA	2.29	0.62
1:B:3359:ILE:HG12	1:B:3434:LEU:HD21	1.81	0.62
1:B:3575:LEU:HD21	1:C:1208:VAL:CG2	2.26	0.62
1:B:3842:LEU:HA	1:B:3875:MET:HE3	1.80	0.62
1:D:127:MET:SD	1:D:127:MET:N	2.64	0.62
1:D:239:ASP:OD2	1:D:239:ASP:N	2.32	0.62
1:D:4921:PHE:HA	1:D:4925:ILE:HD12	1.82	0.62
1:C:3092:LEU:HG	1:C:3096:PHE:CZ	2.34	0.62
1:A:2453:ILE:HA	1:A:2456:ILE:HD12	1.81	0.62
1:A:2548:LEU:O	1:A:2552:ARG:HG2	2.00	0.62
1:A:2967:MET:HE3	1:A:3042:LEU:HD22	1.80	0.62
1:A:3092:LEU:HG	1:A:3096:PHE:CZ	2.34	0.62
2:F:78:PRO:HD3	2:F:96:THR:HG22	1.80	0.62
1:B:2277:ALA:HB1	1:B:2337:PHE:HD2	1.63	0.62
1:D:2548:LEU:O	1:D:2552:ARG:HG2	2.00	0.62
1:D:4580:TYR:CD2	1:D:4632:LEU:HB2	2.33	0.62
1:C:273:HIS:ND1	1:C:335:GLY:O	2.32	0.62
1:C:2321:ILE:HD12	1:C:2418:LEU:HD21	1.81	0.62
1:C:2697:ARG:HA	1:C:2700:MET:SD	2.39	0.62
1:C:2883:HIS:HE1	1:C:2905:LEU:HD22	1.64	0.62
1:C:3322:ILE:HG13	1:C:3326:ASN:HD21	1.64	0.62
1:A:973:SER:O	1:A:976:ARG:NH2	2.33	0.62
1:A:2480:GLY:O	1:A:2484:ALA:N	2.33	0.62
1:A:3204:ALA:O	1:A:3211:ASN:ND2	2.33	0.62
1:A:3842:LEU:HA	1:A:3875:MET:HE3	1.80	0.62
1:A:4053:SER:O	1:A:4056:GLU:HG2	1.99	0.62
1:A:4248:ALA:HA	1:A:4251:ILE:HG12	1.81	0.62
1:A:4732:PHE:O	1:A:4736:ARG:NE	2.32	0.62
1:A:4880:MET:HE2	1:A:4880:MET:H	1.63	0.62
2:H:88:PRO:CB	1:D:623:GLU:CD	2.68	0.62
2:G:6:THR:HB	2:G:70:GLN:HE21	1.65	0.62
1:B:1162:PHE:HB3	1:B:1169:LEU:HD12	1.82	0.62
1:D:850:ASP:OD1	1:D:850:ASP:N	2.33	0.62
1:D:898:ASP:HB3	1:D:901:LYS:HD3	1.82	0.62
1:D:1290:ARG:O	1:D:1598:GLN:N	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2782:ASP:HB2	1:D:2785:LEU:HB2	1.81	0.62
1:D:4711:PHE:HB3	1:D:4712:PRO:CD	2.30	0.62
1:C:1162:PHE:HB3	1:C:1169:LEU:HD12	1.82	0.62
1:C:3242:ASP:N	1:C:3242:ASP:OD1	2.33	0.62
1:A:176:SER:HB2	1:A:178:ARG:HD2	1.81	0.62
1:A:598:LYS:O	1:A:602:VAL:HG23	2.00	0.62
1:A:4866:SER:N	1:A:4873:ASP:OD2	2.33	0.62
2:E:27:THR:HG23	2:E:38:SER:HB2	1.80	0.62
1:B:206:CYS:HB2	1:B:271:GLY:HA3	1.81	0.62
1:B:533:ASN:ND2	1:B:536:ASN:OD1	2.31	0.62
1:D:647:ASN:ND2	1:D:820:ARG:O	2.33	0.62
1:D:973:SER:O	1:D:976:ARG:NH2	2.33	0.62
1:D:3449:HIS:O	1:D:3453:ARG:HG3	2.00	0.62
1:C:1254:HIS:HA	1:C:1276:THR:HG23	1.82	0.62
1:C:2423:MET:CE	1:C:2494:PHE:HA	2.29	0.62
1:C:2712:PRO:HB3	1:C:2956:ALA:HB2	1.82	0.62
1:C:3172:ILE:HD13	1:C:3194:LEU:HD22	1.82	0.62
1:A:647:ASN:ND2	1:A:820:ARG:O	2.33	0.62
1:A:894:GLY:HA3	1:A:903:LEU:HB3	1.82	0.62
1:A:1438:ARG:NH1	1:A:1513:ASP:OD1	2.33	0.62
1:A:1451:GLY:HA3	1:A:1494:MET:HA	1.81	0.62
1:A:4711:PHE:HB3	1:A:4712:PRO:CD	2.30	0.62
2:E:26:TYR:N	2:E:39:SER:OG	2.29	0.62
1:B:1438:ARG:NH1	1:B:1513:ASP:OD1	2.33	0.62
1:B:3204:ALA:O	1:B:3211:ASN:ND2	2.33	0.62
1:B:3322:ILE:O	1:B:3326:ASN:ND2	2.33	0.62
1:D:2293:GLN:OE1	1:D:2293:GLN:N	2.24	0.62
1:D:2697:ARG:HA	1:D:2700:MET:SD	2.39	0.62
1:D:3359:ILE:HG12	1:D:3434:LEU:HD21	1.81	0.62
1:C:1451:GLY:HA3	1:C:1494:MET:HA	1.81	0.62
2:F:7:ILE:HB	2:F:71:ARG:HG3	1.81	0.61
1:B:349:GLN:OE1	1:B:350:HIS:N	2.33	0.61
1:B:2453:ILE:HA	1:B:2456:ILE:HD12	1.81	0.61
1:B:2599:GLN:O	1:B:2603:ILE:HG13	2.00	0.61
1:B:3449:HIS:O	1:B:3453:ARG:HG3	2.00	0.61
1:B:3996:PHE:O	1:B:4000:MET:HG3	1.99	0.61
1:D:894:GLY:HA3	1:D:903:LEU:HB3	1.82	0.61
1:D:1204:LEU:HB3	1:D:1226:PHE:HB3	1.82	0.61
1:D:2712:PRO:HB3	1:D:2956:ALA:HB2	1.82	0.61
1:D:3767:GLN:NE2	1:D:3806:ASN:O	2.29	0.61
1:C:16:THR:HA	1:C:69:LEU:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1125:ASN:HD22	1:C:1128:ARG:HD2	1.64	0.61
1:C:2517:PHE:O	1:C:2520:HIS:ND1	2.33	0.61
1:C:2644:LEU:O	1:C:2647:HIS:ND1	2.33	0.61
1:C:2798:SER:OG	1:C:2801:ASP:OD2	2.18	0.61
1:C:3069:HIS:HA	1:C:3142:THR:HG21	1.82	0.61
1:C:3158:LEU:O	1:C:3162:GLN:NE2	2.34	0.61
1:A:4176:PRO:O	1:A:4202:ARG:NH1	2.33	0.61
1:B:898:ASP:HB3	1:B:901:LYS:HD3	1.82	0.61
1:B:2548:LEU:O	1:B:2552:ARG:HG2	2.00	0.61
1:B:3069:HIS:HA	1:B:3142:THR:HG21	1.82	0.61
1:B:4176:PRO:O	1:B:4202:ARG:NH1	2.33	0.61
1:B:4248:ALA:HA	1:B:4251:ILE:HG12	1.81	0.61
1:B:4866:SER:N	1:B:4873:ASP:OD2	2.33	0.61
1:C:206:CYS:HB2	1:C:271:GLY:HA3	1.81	0.61
1:C:898:ASP:HB3	1:C:901:LYS:HD3	1.82	0.61
1:C:1640:HIS:HE1	1:C:1645:ASN:HA	1.64	0.61
1:C:2283:ASN:HD22	1:C:2286:LEU:HG	1.65	0.61
1:C:3204:ALA:O	1:C:3211:ASN:ND2	2.33	0.61
1:A:898:ASP:HB3	1:A:901:LYS:HD3	1.82	0.61
1:A:2782:ASP:HB2	1:A:2785:LEU:HB2	1.81	0.61
1:A:3069:HIS:HA	1:A:3142:THR:HG21	1.82	0.61
1:A:3172:ILE:HD13	1:A:3194:LEU:HD22	1.82	0.61
1:A:3359:ILE:HG12	1:A:3434:LEU:HD21	1.81	0.61
1:A:4582:VAL:CG2	1:B:4877:ASP:HA	2.30	0.61
2:G:40:ARG:CZ	1:C:674:PHE:CE2	2.83	0.61
1:B:712:TYR:HA	1:B:1470:ARG:HH21	1.64	0.61
1:B:3782:MET:HE2	1:B:3797:THR:HB	1.83	0.61
1:D:283:ARG:HH12	1:D:285:VAL:HA	1.66	0.61
1:D:3069:HIS:HA	1:D:3142:THR:HG21	1.82	0.61
1:D:3204:ALA:O	1:D:3211:ASN:ND2	2.33	0.61
1:D:4053:SER:O	1:D:4056:GLU:HG2	1.99	0.61
1:C:2782:ASP:HB2	1:C:2785:LEU:HB2	1.81	0.61
1:C:3568:SER:HA	1:C:3571:TRP:CD1	2.36	0.61
1:A:3449:HIS:O	1:A:3453:ARG:HG3	2.00	0.61
2:H:13:ARG:HG3	2:H:14:THR:HG23	1.83	0.61
2:G:54:GLU:O	1:C:1785:ALA:N	2.32	0.61
1:B:2712:PRO:HB3	1:B:2956:ALA:HB2	1.82	0.61
1:B:2999:ALA:HA	1:B:3003:LEU:HD12	1.82	0.61
1:B:3092:LEU:HG	1:B:3096:PHE:CZ	2.34	0.61
1:B:3322:ILE:HG13	1:B:3326:ASN:HD21	1.64	0.61
1:D:472:ARG:NH1	1:D:472:ARG:HA	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3322:ILE:HG13	1:D:3326:ASN:HD21	1.64	0.61
1:C:850:ASP:N	1:C:850:ASP:OD1	2.33	0.61
1:C:2480:GLY:O	1:C:2484:ALA:N	2.33	0.61
1:C:3102:ASP:OD1	1:C:3105:LYS:NZ	2.30	0.61
1:A:1541:GLN:NE2	1:A:1542:VAL:O	2.34	0.61
1:A:3996:PHE:O	1:A:4000:MET:HG3	1.99	0.61
2:G:7:ILE:HG13	1:C:719:LEU:CD2	2.29	0.61
1:B:2644:LEU:O	1:B:2647:HIS:ND1	2.33	0.61
1:B:3539:ARG:HG3	1:B:3549:VAL:HG22	1.82	0.61
1:D:2423:MET:CE	1:D:2494:PHE:HA	2.29	0.61
1:D:2480:GLY:O	1:D:2484:ALA:N	2.33	0.61
1:D:2566:ALA:HA	1:D:2569:PHE:HB2	1.82	0.61
1:D:3322:ILE:O	1:D:3326:ASN:ND2	2.33	0.61
1:D:3324:VAL:O	1:D:3364:ARG:NH2	2.33	0.61
1:D:3568:SER:HA	1:D:3571:TRP:CD1	2.36	0.61
1:C:765:GLN:OE1	1:C:765:GLN:N	2.30	0.61
1:C:1204:LEU:HB3	1:C:1226:PHE:HB3	1.82	0.61
1:C:1733:GLU:OE1	1:C:1733:GLU:N	2.27	0.61
1:C:1995:THR:O	1:C:1999:ARG:N	2.31	0.61
1:C:3014:CYS:HG	1:C:3074:SER:HG	1.47	0.61
1:C:3136:LEU:O	1:C:3140:LEU:HG	2.01	0.61
1:C:3324:VAL:O	1:C:3364:ARG:NH2	2.33	0.61
1:C:3359:ILE:HG12	1:C:3434:LEU:HD21	1.81	0.61
1:A:1617:THR:HG22	1:A:1628:VAL:HG12	1.81	0.61
1:A:2515:GLN:OE1	1:A:2515:GLN:N	2.28	0.61
2:E:10:GLY:HA3	2:E:70:GLN:HB2	1.82	0.61
1:D:2883:HIS:HE1	1:D:2905:LEU:HD22	1.64	0.61
1:D:4866:SER:N	1:D:4873:ASP:OD2	2.33	0.61
1:C:1438:ARG:NH1	1:C:1513:ASP:OD1	2.33	0.61
1:A:206:CYS:HB2	1:A:271:GLY:HA3	1.81	0.61
1:A:239:ASP:OD2	1:A:239:ASP:N	2.32	0.61
1:A:1125:ASN:HD22	1:A:1128:ARG:HD2	1.64	0.61
1:A:1296:GLN:NE2	1:A:1545:ASN:OD1	2.34	0.61
1:A:2724:GLU:HA	1:A:2738:ARG:HH22	1.65	0.61
2:F:7:ILE:CG2	1:B:737:LEU:HB2	2.31	0.61
1:B:154:SER:OG	1:B:155:LYS:N	2.34	0.61
1:B:1291:LEU:HD12	1:B:1550:PRO:HB2	1.83	0.61
1:B:2151:ASP:OD1	1:B:2188:ASN:ND2	2.34	0.61
1:B:2480:GLY:O	1:B:2484:ALA:N	2.33	0.61
1:B:4921:PHE:HA	1:B:4925:ILE:HD12	1.82	0.61
1:B:4963:ILE:HD13	1:B:5030:LYS:HZ1	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:622:THR:HG23	1:D:626:LEU:HD12	1.83	0.61
1:D:4176:PRO:O	1:D:4202:ARG:NH1	2.33	0.61
1:C:472:ARG:NH1	1:C:472:ARG:HA	2.16	0.61
1:C:1160:ILE:O	1:C:1177:THR:OG1	2.18	0.61
1:C:2999:ALA:HA	1:C:3003:LEU:HD12	1.82	0.61
1:C:3449:HIS:O	1:C:3453:ARG:HG3	2.00	0.61
1:C:4866:SER:N	1:C:4873:ASP:OD2	2.33	0.61
1:A:533:ASN:ND2	1:A:536:ASN:OD1	2.31	0.61
1:A:2566:ALA:HA	1:A:2569:PHE:HB2	1.82	0.61
1:A:3158:LEU:O	1:A:3162:GLN:NE2	2.33	0.61
1:A:3322:ILE:HG13	1:A:3326:ASN:HD21	1.64	0.61
1:A:3324:VAL:O	1:A:3364:ARG:NH2	2.33	0.61
1:B:1653:LEU:HD21	1:B:1660:GLN:HA	1.82	0.61
1:D:176:SER:HB2	1:D:178:ARG:HD2	1.81	0.61
1:D:218:HIS:N	1:D:261:ARG:HH22	1.98	0.61
1:D:1541:GLN:NE2	1:D:1542:VAL:O	2.34	0.61
1:D:2283:ASN:HD22	1:D:2286:LEU:HG	1.65	0.61
1:D:3836:MET:SD	1:D:3837:GLN:NE2	2.74	0.61
1:C:218:HIS:N	1:C:261:ARG:HH22	1.98	0.61
1:C:497:TYR:O	1:C:553:ARG:NH2	2.33	0.61
1:C:533:ASN:ND2	1:C:536:ASN:OD1	2.31	0.61
1:C:1291:LEU:HD12	1:C:1550:PRO:HB2	1.83	0.61
1:C:1296:GLN:NE2	1:C:1545:ASN:OD1	2.34	0.61
1:C:4921:PHE:HA	1:C:4925:ILE:HD12	1.82	0.61
1:A:218:HIS:N	1:A:261:ARG:HH22	1.98	0.61
1:A:1291:LEU:HD12	1:A:1550:PRO:HB2	1.83	0.61
2:E:15:PHE:H	2:E:17:LYS:NZ	1.99	0.61
1:B:1131:ARG:HH11	1:B:1139:PHE:HB2	1.64	0.61
1:B:1204:LEU:HB3	1:B:1226:PHE:HB3	1.82	0.61
1:B:3158:LEU:O	1:B:3162:GLN:NE2	2.33	0.61
1:B:3711:THR:O	1:B:3713:LYS:NZ	2.34	0.61
1:D:1653:LEU:HD21	1:D:1660:GLN:HA	1.82	0.61
1:C:154:SER:OG	1:C:155:LYS:N	2.34	0.61
1:C:598:LYS:O	1:C:602:VAL:HG23	2.00	0.61
1:C:1982:ARG:NE	1:C:1982:ARG:O	2.32	0.61
1:C:2724:GLU:HA	1:C:2738:ARG:HH22	1.65	0.61
1:C:4144:ALA:O	1:C:4148:THR:HG23	2.01	0.61
1:C:4711:PHE:HB3	1:C:4712:PRO:CD	2.30	0.61
1:A:622:THR:HG23	1:A:626:LEU:HD12	1.83	0.61
1:A:1204:LEU:HB3	1:A:1226:PHE:HB3	1.82	0.61
1:A:1653:LEU:HD21	1:A:1660:GLN:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1783:VAL:HG12	2:E:55:VAL:HG13	1.82	0.61
1:A:2679:PHE:HE2	1:A:2707:ALA:HB2	1.66	0.61
1:A:2712:PRO:HB3	1:A:2956:ALA:HB2	1.82	0.61
2:G:26:TYR:N	2:G:39:SER:OG	2.25	0.61
1:B:239:ASP:OD2	1:B:239:ASP:N	2.32	0.61
1:B:296:ASP:OD2	1:B:297:GLN:NE2	2.28	0.61
1:B:2724:GLU:HA	1:B:2738:ARG:HH22	1.65	0.61
1:B:3324:VAL:O	1:B:3364:ARG:NH2	2.33	0.61
1:C:2269:GLY:O	1:C:2330:ARG:NH2	2.34	0.61
1:C:3553:LEU:HD21	1:C:3596:VAL:HG11	1.83	0.61
1:C:3836:MET:SD	1:C:3837:GLN:NE2	2.74	0.61
1:A:2644:LEU:O	1:A:2647:HIS:ND1	2.33	0.60
1:A:2963:LEU:HD21	1:A:3006:ILE:HD11	1.83	0.60
2:F:55:VAL:HG11	2:F:59:TRP:HE3	1.65	0.60
2:F:56:ILE:HD12	1:B:1783:VAL:O	2.00	0.60
1:B:176:SER:HB2	1:B:178:ARG:HD2	1.81	0.60
1:D:1451:GLY:HA3	1:D:1494:MET:HA	1.81	0.60
1:D:2517:PHE:O	1:D:2520:HIS:ND1	2.33	0.60
1:D:4952:GLU:O	1:D:4956:THR:OG1	2.19	0.60
1:C:2203:MET:N	1:C:2203:MET:SD	2.72	0.60
1:C:3366:ARG:HA	1:C:3441:ILE:HD11	1.82	0.60
1:A:755:ILE:HD12	1:A:768:PHE:HD2	1.67	0.60
1:A:765:GLN:N	1:A:765:GLN:OE1	2.30	0.60
1:B:622:THR:HG23	1:B:626:LEU:HD12	1.83	0.60
1:B:2283:ASN:HD22	1:B:2286:LEU:HG	1.65	0.60
1:B:3136:LEU:O	1:B:3140:LEU:HG	2.01	0.60
1:B:3568:SER:HA	1:B:3571:TRP:CD1	2.36	0.60
1:B:4580:TYR:CD2	1:B:4632:LEU:HB2	2.33	0.60
1:D:1160:ILE:O	1:D:1177:THR:OG1	2.18	0.60
1:D:2515:GLN:OE1	1:D:2515:GLN:N	2.28	0.60
1:D:2724:GLU:HA	1:D:2738:ARG:HH22	1.65	0.60
1:D:3172:ILE:HD13	1:D:3194:LEU:HD22	1.82	0.60
1:D:3366:ARG:HA	1:D:3441:ILE:HD11	1.81	0.60
1:D:3539:ARG:HG3	1:D:3549:VAL:HG22	1.82	0.60
1:D:3842:LEU:HA	1:D:3875:MET:HE3	1.84	0.60
1:C:2151:ASP:OD1	1:C:2188:ASN:ND2	2.34	0.60
1:C:2548:LEU:O	1:C:2552:ARG:HG2	2.00	0.60
1:C:4176:PRO:O	1:C:4202:ARG:NH1	2.33	0.60
1:A:38:ALA:HB1	1:A:64:ILE:HG13	1.83	0.60
1:A:283:ARG:HH12	1:A:285:VAL:HA	1.66	0.60
1:A:1160:ILE:O	1:A:1177:THR:OG1	2.18	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1995:THR:O	1:A:1999:ARG:N	2.31	0.60
1:A:4144:ALA:O	1:A:4148:THR:HG23	2.01	0.60
1:B:1160:ILE:O	1:B:1177:THR:OG1	2.18	0.60
1:B:1541:GLN:NE2	1:B:1542:VAL:O	2.34	0.60
1:D:3282:PRO:O	1:D:3285:TRP:N	2.35	0.60
1:C:239:ASP:OD2	1:C:239:ASP:N	2.32	0.60
1:C:349:GLN:OE1	1:C:350:HIS:N	2.33	0.60
1:C:2318:TYR:OH	1:C:2416:VAL:O	2.16	0.60
1:A:472:ARG:HA	1:A:472:ARG:NH1	2.16	0.60
1:A:1246:GLU:O	1:A:1599:MET:N	2.31	0.60
1:A:3568:SER:HA	1:A:3571:TRP:CD1	2.36	0.60
1:A:3836:MET:SD	1:A:3837:GLN:NE2	2.74	0.60
2:H:78:PRO:HA	2:H:81:ALA:HB3	1.82	0.60
1:B:1296:GLN:NE2	1:B:1545:ASN:OD1	2.34	0.60
1:B:2963:LEU:HD21	1:B:3006:ILE:HD11	1.83	0.60
1:B:4144:ALA:O	1:B:4148:THR:HG23	2.01	0.60
1:D:1438:ARG:NH1	1:D:1513:ASP:OD1	2.33	0.60
1:D:3158:LEU:O	1:D:3162:GLN:NE2	2.34	0.60
1:C:3782:MET:HE2	1:C:3797:THR:HB	1.83	0.60
1:C:3981:ALA:HA	1:C:3986:TRP:CZ2	2.36	0.60
1:A:2269:GLY:O	1:A:2330:ARG:NH2	2.34	0.60
1:A:3553:LEU:HD21	1:A:3596:VAL:HG11	1.83	0.60
2:E:55:VAL:HG11	2:E:59:TRP:CE3	2.37	0.60
1:B:283:ARG:HH12	1:B:285:VAL:HA	1.66	0.60
1:B:894:GLY:HA3	1:B:903:LEU:HB3	1.82	0.60
1:B:3836:MET:SD	1:B:3837:GLN:NE2	2.74	0.60
1:D:573:GLU:CD	1:D:573:GLU:H	2.05	0.60
1:D:2151:ASP:OD1	1:D:2188:ASN:ND2	2.34	0.60
1:C:69:LEU:HA	1:C:109:LEU:HA	1.84	0.60
1:C:176:SER:HB2	1:C:178:ARG:HD2	1.81	0.60
1:C:1754:GLY:O	1:C:1758:ARG:N	2.34	0.60
1:C:3655:GLU:HA	1:C:3658:LYS:HE3	1.83	0.60
1:A:69:LEU:HA	1:A:109:LEU:HA	1.84	0.60
1:A:1754:GLY:O	1:A:1758:ARG:N	2.35	0.60
1:A:2151:ASP:OD1	1:A:2188:ASN:ND2	2.34	0.60
1:B:218:HIS:N	1:B:261:ARG:HH22	1.98	0.60
1:B:1857:GLU:OE2	1:B:1861:GLN:NE2	2.35	0.60
1:B:2269:GLY:O	1:B:2330:ARG:NH2	2.34	0.60
1:B:3172:ILE:HD13	1:B:3194:LEU:HD22	1.82	0.60
1:B:3553:LEU:HD21	1:B:3596:VAL:HG11	1.83	0.60
1:B:4711:PHE:HB3	1:B:4712:PRO:CD	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:349:GLN:OE1	1:D:350:HIS:N	2.33	0.60
1:D:984:LEU:HA	1:D:987:ARG:HE	1.66	0.60
1:D:1291:LEU:HD12	1:D:1550:PRO:HB2	1.83	0.60
1:D:3358:PHE:O	1:D:3362:ILE:HG12	2.01	0.60
1:C:1541:GLN:NE2	1:C:1542:VAL:O	2.34	0.60
1:C:2639:MET:SD	1:C:2639:MET:N	2.72	0.60
1:C:3250:MET:N	1:C:3250:MET:SD	2.75	0.60
1:A:984:LEU:HA	1:A:987:ARG:HE	1.66	0.60
1:A:1974:ARG:HH21	1:A:3642:TYR:HB2	1.67	0.60
1:B:472:ARG:NH1	1:B:472:ARG:HA	2.16	0.60
1:B:2679:PHE:HE2	1:B:2707:ALA:HB2	1.66	0.60
1:D:755:ILE:HD12	1:D:768:PHE:HD2	1.66	0.60
1:D:2269:GLY:O	1:D:2330:ARG:NH2	2.34	0.60
1:D:2644:LEU:O	1:D:2647:HIS:ND1	2.33	0.60
1:D:2679:PHE:HE2	1:D:2707:ALA:HB2	1.66	0.60
1:D:4689:THR:OG1	1:D:4690:GLU:OE1	2.16	0.60
1:C:573:GLU:H	1:C:573:GLU:CD	2.05	0.60
1:C:622:THR:HG23	1:C:626:LEU:HD12	1.83	0.60
1:C:1653:LEU:HD21	1:C:1660:GLN:HA	1.82	0.60
1:C:2679:PHE:HE2	1:C:2707:ALA:HB2	1.66	0.60
1:C:4880:MET:H	1:C:4880:MET:HE2	1.65	0.60
1:A:349:GLN:OE1	1:A:350:HIS:N	2.33	0.60
1:A:531:ARG:NH1	1:A:566:CYS:SG	2.75	0.60
1:A:2283:ASN:HD22	1:A:2286:LEU:HG	1.65	0.60
1:A:3539:ARG:HG3	1:A:3549:VAL:HG22	1.82	0.60
2:F:105:LYS:NZ	2:F:106:LEU:H	2.00	0.60
1:B:38:ALA:HB1	1:B:64:ILE:HG13	1.83	0.60
1:B:755:ILE:HD12	1:B:768:PHE:HD2	1.67	0.60
1:B:3655:GLU:HA	1:B:3658:LYS:HE3	1.83	0.60
1:D:1982:ARG:NE	1:D:1982:ARG:O	2.32	0.60
1:D:2621:HIS:NE2	1:D:2915:GLU:OE2	2.35	0.60
1:D:3711:THR:O	1:D:3713:LYS:NZ	2.34	0.60
1:C:1981:MET:N	1:C:1981:MET:SD	2.75	0.60
1:C:3282:PRO:O	1:C:3285:TRP:N	2.34	0.60
1:C:3788:GLY:HA3	1:C:3834:ALA:HB3	1.84	0.60
1:C:3947:GLY:O	1:C:3951:PHE:HD1	1.85	0.60
1:C:4580:TYR:CD2	1:C:4632:LEU:HB2	2.33	0.60
1:A:717:ASP:HB2	1:A:722:TRP:CD1	2.37	0.60
1:A:1674:CYS:HB2	1:A:1685:LEU:HD11	1.84	0.60
1:A:2433:LEU:HD11	1:A:2457:LEU:HD22	1.84	0.60
1:A:3282:PRO:O	1:A:3285:TRP:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:20:GLN:OE1	2:E:20:GLN:N	2.35	0.60
2:H:59:TRP:CE3	1:D:1783:VAL:HG11	2.37	0.60
2:H:105:LYS:NZ	2:H:106:LEU:O	2.34	0.60
1:B:213:TYR:H	1:B:341:TYR:H	1.50	0.60
1:B:4157:ASP:OD1	1:B:4159:ARG:NE	2.35	0.60
1:D:1263:THR:OG1	1:D:1265:ASP:OD2	2.18	0.60
1:D:1296:GLN:NE2	1:D:1545:ASN:OD1	2.34	0.60
1:C:283:ARG:HH12	1:C:285:VAL:HA	1.66	0.60
1:C:717:ASP:HB2	1:C:722:TRP:CD1	2.37	0.60
1:A:1857:GLU:OE2	1:A:1861:GLN:NE2	2.35	0.60
1:A:3358:PHE:O	1:A:3362:ILE:HG12	2.01	0.60
1:A:4157:ASP:OD1	1:A:4159:ARG:NE	2.35	0.60
1:A:4921:PHE:HA	1:A:4925:ILE:HD12	1.82	0.60
2:H:57:ARG:HH22	2:H:80:TYR:HA	1.67	0.60
1:B:233:ILE:O	1:B:257:ARG:NH2	2.21	0.60
1:B:531:ARG:NH1	1:B:566:CYS:SG	2.75	0.60
1:B:2265:LEU:HD12	1:B:2330:ARG:HB2	1.84	0.60
1:D:1674:CYS:HB2	1:D:1685:LEU:HD11	1.84	0.60
1:D:3947:GLY:O	1:D:3951:PHE:HD1	1.85	0.60
1:D:4880:MET:HE2	1:D:4880:MET:H	1.67	0.60
1:C:3300:ALA:HB3	1:C:3301:PRO:HD3	1.84	0.60
1:C:3322:ILE:O	1:C:3326:ASN:ND2	2.33	0.60
1:A:817:PRO:O	1:A:820:ARG:NH2	2.31	0.59
1:A:2639:MET:SD	1:A:2639:MET:N	2.72	0.59
1:A:3136:LEU:O	1:A:3140:LEU:HG	2.01	0.59
1:A:3322:ILE:O	1:A:3326:ASN:ND2	2.33	0.59
1:A:3711:THR:O	1:A:3713:LYS:NZ	2.34	0.59
2:H:94:HIS:ND1	2:H:94:HIS:O	2.35	0.59
1:B:439:GLU:OE2	1:B:439:GLU:N	2.25	0.59
1:B:984:LEU:HA	1:B:987:ARG:HE	1.66	0.59
1:B:2639:MET:SD	1:B:2639:MET:N	2.72	0.59
1:B:3250:MET:N	1:B:3250:MET:SD	2.75	0.59
1:B:3282:PRO:O	1:B:3285:TRP:N	2.35	0.59
1:B:3788:GLY:HA3	1:B:3834:ALA:HB3	1.84	0.59
1:D:1808:ARG:NH1	1:D:1853:ILE:O	2.35	0.59
1:D:1965:TYR:CZ	1:D:1969:LEU:HD21	2.37	0.59
1:D:2158:CYS:O	1:D:2162:ILE:HG12	2.03	0.59
1:D:2518:LEU:HD22	1:D:2565:CYS:HB3	1.84	0.59
1:D:3250:MET:N	1:D:3250:MET:SD	2.75	0.59
1:D:3446:SER:O	1:D:3452:LYS:NZ	2.35	0.59
1:D:4144:ALA:O	1:D:4148:THR:HG23	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:894:GLY:HA3	1:C:903:LEU:HB3	1.82	0.59
1:C:1674:CYS:HB2	1:C:1685:LEU:HD11	1.84	0.59
1:C:2566:ALA:HA	1:C:2569:PHE:HB2	1.82	0.59
1:C:3670:GLU:HB3	1:C:3728:ILE:HG23	1.84	0.59
1:A:1263:THR:OG1	1:A:1265:ASP:OD2	2.18	0.59
1:A:1717:SER:HA	1:A:1721:GLU:HB3	1.84	0.59
1:A:1732:SER:O	1:A:2140:ARG:NE	2.35	0.59
1:A:3991:GLY:O	1:A:3994:HIS:ND1	2.36	0.59
2:G:59:TRP:CE3	1:C:1783:VAL:HG11	2.37	0.59
1:B:717:ASP:HB2	1:B:722:TRP:CD1	2.37	0.59
1:B:2026:ASP:OD1	1:B:2027:ILE:N	2.34	0.59
1:B:2621:HIS:NE2	1:B:2915:GLU:OE2	2.35	0.59
1:B:3300:ALA:HB3	1:B:3301:PRO:HD3	1.84	0.59
1:D:1974:ARG:HH21	1:D:3642:TYR:HB2	1.67	0.59
1:D:2442:LEU:H	1:D:2444:GLN:HE21	1.50	0.59
1:D:3136:LEU:O	1:D:3140:LEU:HG	2.01	0.59
1:D:3315:LEU:HA	1:D:3318:ASN:HD22	1.67	0.59
1:D:3553:LEU:HD21	1:D:3596:VAL:HG11	1.83	0.59
1:C:1732:SER:O	1:C:2140:ARG:NE	2.35	0.59
1:C:2621:HIS:NE2	1:C:2915:GLU:OE2	2.35	0.59
1:C:3539:ARG:HG3	1:C:3549:VAL:HG22	1.82	0.59
1:A:213:TYR:H	1:A:341:TYR:H	1.50	0.59
1:A:573:GLU:H	1:A:573:GLU:CD	2.05	0.59
1:A:1965:TYR:CZ	1:A:1969:LEU:HD21	2.37	0.59
1:A:2442:LEU:H	1:A:2444:GLN:HE21	1.50	0.59
1:A:2621:HIS:NE2	1:A:2915:GLU:OE2	2.35	0.59
1:A:2999:ALA:HA	1:A:3003:LEU:HD12	1.82	0.59
1:A:3970:GLN:HE21	1:A:5004:THR:HA	1.67	0.59
1:A:4556:SER:HB2	1:A:4664:LEU:HD13	1.83	0.59
2:G:88:PRO:HA	1:C:623:GLU:OE1	2.02	0.59
1:B:647:ASN:ND2	1:B:820:ARG:O	2.33	0.59
1:B:1965:TYR:CZ	1:B:1969:LEU:HD21	2.37	0.59
1:B:4873:ASP:OD1	1:B:4875:LYS:NZ	2.36	0.59
1:D:46:LEU:HD13	1:D:134:ASP:HB2	1.84	0.59
1:D:261:ARG:NH2	1:D:262:LEU:O	2.28	0.59
1:D:1717:SER:HA	1:D:1721:GLU:HB3	1.84	0.59
1:D:2627:VAL:HG13	1:D:2678:LEU:HD21	1.84	0.59
1:D:3300:ALA:HB3	1:D:3301:PRO:HD3	1.84	0.59
1:D:3782:MET:HE2	1:D:3797:THR:HB	1.83	0.59
1:D:3991:GLY:O	1:D:3994:HIS:ND1	2.36	0.59
1:C:261:ARG:NH2	1:C:262:LEU:O	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:472:ARG:NH1	1:C:475:GLN:OE1	2.35	0.59
1:C:913:LEU:HD23	1:C:918:ARG:HG2	1.84	0.59
1:C:1857:GLU:OE2	1:C:1861:GLN:NE2	2.35	0.59
1:C:2265:LEU:HD12	1:C:2330:ARG:HB2	1.84	0.59
1:C:3358:PHE:O	1:C:3362:ILE:HG12	2.01	0.59
1:C:3991:GLY:O	1:C:3994:HIS:ND1	2.36	0.59
1:A:261:ARG:NH2	1:A:262:LEU:O	2.28	0.59
1:A:1981:MET:N	1:A:1981:MET:SD	2.75	0.59
1:A:2026:ASP:OD1	1:A:2027:ILE:N	2.34	0.59
1:A:3592:ILE:O	1:A:3596:VAL:HG23	2.03	0.59
1:A:3788:GLY:HA3	1:A:3834:ALA:HB3	1.84	0.59
2:E:105:LYS:HD2	2:E:106:LEU:N	2.17	0.59
1:B:1733:GLU:OE1	1:B:1733:GLU:N	2.27	0.59
1:B:1981:MET:N	1:B:1981:MET:SD	2.75	0.59
1:B:2566:ALA:HA	1:B:2569:PHE:HB2	1.82	0.59
1:B:2868:SER:HB3	1:B:2871:LEU:HD22	1.84	0.59
1:B:3947:GLY:O	1:B:3951:PHE:HD1	1.85	0.59
1:D:531:ARG:NH1	1:D:566:CYS:SG	2.75	0.59
1:D:717:ASP:HB2	1:D:722:TRP:CD1	2.37	0.59
1:D:1732:SER:O	1:D:2140:ARG:NE	2.35	0.59
1:D:2265:LEU:HD12	1:D:2330:ARG:HB2	1.84	0.59
1:D:2999:ALA:HA	1:D:3003:LEU:HD12	1.82	0.59
1:D:4640:GLU:HB2	1:D:4641:PRO:HD3	1.84	0.59
1:C:1974:ARG:HH21	1:C:3642:TYR:HB2	1.67	0.59
1:C:2741:GLU:HG2	1:C:2743:LEU:HD23	1.85	0.59
1:C:3763:LEU:HA	1:C:3766:GLN:OE1	2.02	0.59
1:A:46:LEU:HD13	1:A:134:ASP:HB2	1.84	0.59
1:A:234:SER:O	1:A:242:ARG:NE	2.34	0.59
1:A:472:ARG:NH1	1:A:475:GLN:OE1	2.35	0.59
1:A:1616:GLU:OE1	1:A:1616:GLU:N	2.36	0.59
1:A:3250:MET:N	1:A:3250:MET:SD	2.75	0.59
1:A:4681:LEU:HD13	1:A:4724:VAL:HG21	1.85	0.59
1:B:181:HIS:ND1	1:B:198:THR:OG1	2.28	0.59
1:B:850:ASP:N	1:B:850:ASP:OD1	2.33	0.59
1:B:3763:LEU:HA	1:B:3766:GLN:OE1	2.02	0.59
1:D:213:TYR:H	1:D:341:TYR:H	1.50	0.59
1:D:472:ARG:NH1	1:D:475:GLN:OE1	2.35	0.59
1:D:2799:GLU:HA	1:D:2802:LYS:HG3	1.84	0.59
1:D:4564:PHE:HA	1:D:4567:LEU:HG	1.85	0.59
1:D:5013:MET:HG2	1:D:5021:PHE:HB3	1.84	0.59
1:C:120:CYS:HA	1:C:135:VAL:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:181:HIS:ND1	1:C:198:THR:OG1	2.28	0.59
1:C:2226:PRO:HB2	1:C:2268[A]:GLN:HE21	1.67	0.59
1:C:3767:GLN:NE2	1:C:3806:ASN:O	2.29	0.59
1:A:497:TYR:O	1:A:553:ARG:NH2	2.33	0.59
1:A:2799:GLU:HA	1:A:2802:LYS:HG3	1.84	0.59
1:A:3293:PRO:HB2	1:A:3298:ALA:HB2	1.84	0.59
1:A:3354:LEU:HG	1:A:3358:PHE:HB3	1.85	0.59
1:A:3655:GLU:HA	1:A:3658:LYS:HE3	1.83	0.59
1:A:4873:ASP:OD1	1:A:4875:LYS:NZ	2.36	0.59
1:B:573:GLU:CD	1:B:573:GLU:H	2.05	0.59
1:B:1616:GLU:OE1	1:B:1616:GLU:N	2.36	0.59
1:B:2516:ASP:N	1:B:2516:ASP:OD1	2.35	0.59
1:B:3333:THR:OG1	1:B:3337:ARG:NH1	2.35	0.59
1:B:3358:PHE:O	1:B:3362:ILE:HG12	2.01	0.59
1:D:913:LEU:HD23	1:D:918:ARG:HG2	1.84	0.59
1:D:1857:GLU:OE2	1:D:1861:GLN:NE2	2.35	0.59
1:D:3333:THR:OG1	1:D:3337:ARG:NH1	2.35	0.59
1:D:3655:GLU:HA	1:D:3658:LYS:HE3	1.83	0.59
1:D:4681:LEU:HD13	1:D:4724:VAL:HG21	1.85	0.59
1:C:119:SER:O	1:C:136:GLY:N	2.33	0.59
1:C:1965:TYR:CZ	1:C:1969:LEU:HD21	2.37	0.59
1:C:2026:ASP:OD1	1:C:2027:ILE:N	2.34	0.59
1:C:2111:VAL:HB	1:C:2117:VAL:HG22	1.85	0.59
1:C:2433:LEU:HD11	1:C:2457:LEU:HD22	1.84	0.59
1:C:4873:ASP:OD1	1:C:4875:LYS:NZ	2.36	0.59
1:A:685:GLY:HA3	1:A:715:GLY:HA2	1.85	0.59
1:A:1221:GLU:OE2	1:A:1221:GLU:N	2.27	0.59
1:A:2517:PHE:O	1:A:2520:HIS:ND1	2.33	0.59
1:A:2970:SER:HA	1:A:2973:PHE:CD2	2.38	0.59
1:A:3670:GLU:HB3	1:A:3728:ILE:HG23	1.84	0.59
1:A:3763:LEU:HA	1:A:3766:GLN:OE1	2.02	0.59
1:B:69:LEU:HA	1:B:109:LEU:HA	1.84	0.59
1:B:497:TYR:O	1:B:553:ARG:NH2	2.33	0.59
1:B:1754:GLY:O	1:B:1758:ARG:N	2.35	0.59
1:B:2782:ASP:OD1	1:B:2787:THR:OG1	2.21	0.59
1:D:1981:MET:SD	1:D:1981:MET:N	2.75	0.59
1:D:2111:VAL:HB	1:D:2117:VAL:HG22	1.85	0.59
1:D:2868:SER:HB3	1:D:2871:LEU:HD22	1.84	0.59
1:D:3244:PRO:HD2	1:D:3249:LEU:HD21	1.85	0.59
1:C:1851:MET:HE2	1:C:1851:MET:N	2.17	0.59
1:C:4782:VAL:O	1:C:4785:THR:OG1	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:119:SER:O	1:A:136:GLY:N	2.33	0.59
1:A:1277:TRP:HD1	1:A:1559:GLN:HG3	1.68	0.59
1:A:2226:PRO:HB2	1:A:2268[A]:GLN:HE21	1.67	0.59
1:A:2265:LEU:HD12	1:A:2330:ARG:HB2	1.84	0.59
1:A:2518:LEU:HD22	1:A:2565:CYS:HB3	1.84	0.59
1:A:3242:ASP:N	1:A:3242:ASP:OD1	2.33	0.59
2:E:21:THR:HA	2:E:49:MET:HA	1.83	0.59
1:B:2111:VAL:HB	1:B:2117:VAL:HG22	1.85	0.59
1:B:2669:GLU:HA	1:B:2672:LEU:HB2	1.85	0.59
1:D:685:GLY:HA3	1:D:715:GLY:HA2	1.85	0.59
1:D:1754:GLY:O	1:D:1758:ARG:N	2.35	0.59
1:D:2433:LEU:HD11	1:D:2457:LEU:HD22	1.84	0.59
1:D:2640:PRO:HA	1:D:2643:LEU:HG	1.85	0.59
1:D:2669:GLU:HA	1:D:2672:LEU:HB2	1.85	0.59
1:D:2963:LEU:HD21	1:D:3006:ILE:HD11	1.83	0.59
1:D:3566:SER:H	1:D:3569:LEU:HD12	1.67	0.59
1:D:3788:GLY:HA3	1:D:3834:ALA:HB3	1.84	0.59
1:D:4556:SER:HB2	1:D:4664:LEU:HD13	1.83	0.59
1:D:4782:VAL:O	1:D:4785:THR:OG1	2.14	0.59
1:C:115:ARG:HD2	1:C:395:GLN:HE22	1.68	0.59
1:C:1616:GLU:N	1:C:1616:GLU:OE1	2.36	0.59
1:C:2348:GLU:O	1:C:2352:VAL:HG23	2.02	0.59
1:C:3333:THR:OG1	1:C:3337:ARG:NH1	2.35	0.59
1:A:2669:GLU:HA	1:A:2672:LEU:HB2	1.85	0.59
1:A:3333:THR:OG1	1:A:3337:ARG:NH1	2.35	0.59
1:A:3947:GLY:O	1:A:3951:PHE:HD1	1.85	0.59
1:B:467:LYS:NZ	1:B:471:LEU:HB2	2.17	0.59
1:B:817:PRO:O	1:B:820:ARG:NH2	2.31	0.59
1:B:2627:VAL:HG13	1:B:2678:LEU:HD21	1.84	0.59
1:B:2799:GLU:HA	1:B:2802:LYS:HG3	1.84	0.59
1:B:4556:SER:HB2	1:B:4664:LEU:HD13	1.83	0.59
1:D:2516:ASP:OD1	1:D:2516:ASP:N	2.35	0.59
1:C:38:ALA:HB1	1:C:64:ILE:HG13	1.83	0.59
1:C:213:TYR:H	1:C:341:TYR:H	1.50	0.59
1:C:531:ARG:NH1	1:C:566:CYS:SG	2.75	0.59
1:C:3354:LEU:HG	1:C:3358:PHE:HB3	1.85	0.59
1:C:3819:TYR:O	1:C:3823:LYS:HG2	2.03	0.59
1:C:4681:LEU:HD13	1:C:4724:VAL:HG21	1.85	0.59
1:A:1979:LEU:O	1:A:1983:ALA:N	2.34	0.59
1:A:3446:SER:O	1:A:3452:LYS:NZ	2.35	0.59
1:A:3819:TYR:O	1:A:3823:LYS:HG2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4001:MET:O	1:A:4005:GLN:NE2	2.34	0.59
1:B:472:ARG:NH1	1:B:475:GLN:OE1	2.35	0.59
1:B:1732:SER:O	1:B:2140:ARG:NE	2.35	0.59
1:B:3244:PRO:HD2	1:B:3249:LEU:HD21	1.85	0.59
1:B:4001:MET:O	1:B:4005:GLN:NE2	2.34	0.59
1:D:404:ILE:HG21	1:D:481:GLU:HG3	1.85	0.59
1:D:771:PHE:HB3	1:D:1472:VAL:HG23	1.85	0.59
1:D:1220:GLN:OE1	1:C:3522:LEU:CB	2.50	0.59
1:D:2970:SER:HA	1:D:2973:PHE:CD2	2.38	0.59
1:D:3763:LEU:HA	1:D:3766:GLN:OE1	2.02	0.59
1:D:3970:GLN:HE21	1:D:5004:THR:HA	1.67	0.59
1:C:467:LYS:NZ	1:C:471:LEU:HB2	2.17	0.59
1:C:2782:ASP:OD1	1:C:2787:THR:OG1	2.21	0.59
1:C:2963:LEU:HD21	1:C:3006:ILE:HD11	1.83	0.59
1:C:3566:SER:H	1:C:3569:LEU:HD12	1.67	0.59
1:C:4564:PHE:HA	1:C:4567:LEU:HG	1.85	0.59
1:C:4640:GLU:HB2	1:C:4641:PRO:HD3	1.84	0.59
1:A:916:PRO:HA	1:A:919:ASN:HD22	1.68	0.58
1:A:1745:ILE:O	1:A:1964:ARG:NH2	2.36	0.58
1:A:2158:CYS:O	1:A:2162:ILE:HG12	2.02	0.58
1:A:5013:MET:HG2	1:A:5021:PHE:HB3	1.84	0.58
2:H:8:SER:HB3	2:H:71:ARG:HB3	1.85	0.58
2:F:24:VAL:HG12	2:F:103:LEU:HA	1.84	0.58
1:B:15:ARG:HA	1:B:100:THR:HA	1.84	0.58
1:B:915:GLU:OE1	1:B:915:GLU:N	2.36	0.58
1:B:916:PRO:HA	1:B:919:ASN:HD22	1.68	0.58
1:B:2158:CYS:O	1:B:2162:ILE:HG12	2.02	0.58
1:B:3267:PRO:O	1:B:3271:GLU:HB2	2.03	0.58
1:B:3308:THR:OG1	1:B:3310:ASP:OD2	2.16	0.58
1:B:3315:LEU:O	1:B:3319:ILE:HG12	2.03	0.58
1:B:3315:LEU:HA	1:B:3318:ASN:HD22	1.67	0.58
1:B:3354:LEU:HG	1:B:3358:PHE:HB3	1.85	0.58
1:B:3428:ASN:ND2	1:B:3430:ASN:OD1	2.29	0.58
1:D:69:LEU:HA	1:D:109:LEU:HA	1.84	0.58
1:D:181:HIS:ND1	1:D:198:THR:OG1	2.28	0.58
1:D:467:LYS:NZ	1:D:471:LEU:HB2	2.17	0.58
1:D:817:PRO:O	1:D:820:ARG:NH2	2.31	0.58
1:D:3242:ASP:N	1:D:3242:ASP:OD1	2.33	0.58
1:D:3434:LEU:O	1:D:3438:VAL:HG12	2.03	0.58
1:D:3670:GLU:HB3	1:D:3728:ILE:HG23	1.84	0.58
1:C:915:GLU:N	1:C:915:GLU:OE1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:984:LEU:HA	1:C:987:ARG:HE	1.66	0.58
1:C:2799:GLU:HA	1:C:2802:LYS:HG3	1.84	0.58
1:C:3315:LEU:O	1:C:3319:ILE:HG12	2.03	0.58
1:A:404:ILE:HG21	1:A:481:GLU:HG3	1.85	0.58
1:A:1808:ARG:NH1	1:A:1853:ILE:O	2.35	0.58
1:A:2013:LYS:NZ	1:A:3661:TRP:O	2.36	0.58
1:A:2111:VAL:HB	1:A:2117:VAL:HG22	1.85	0.58
1:A:3244:PRO:HD2	1:A:3249:LEU:HD21	1.85	0.58
1:B:404:ILE:HG21	1:B:481:GLU:HG3	1.85	0.58
1:B:1851:MET:N	1:B:1851:MET:HE2	2.18	0.58
1:B:2433:LEU:HD11	1:B:2457:LEU:HD22	1.84	0.58
1:B:2442:LEU:H	1:B:2444:GLN:HE21	1.50	0.58
1:B:3970:GLN:HE21	1:B:5004:THR:HA	1.67	0.58
1:D:38:ALA:HB1	1:D:64:ILE:HG13	1.83	0.58
1:D:2741:GLU:HG2	1:D:2743:LEU:HD23	1.84	0.58
1:D:2782:ASP:OD1	1:D:2787:THR:OG1	2.21	0.58
1:C:15:ARG:HA	1:C:100:THR:HA	1.84	0.58
1:C:1717:SER:HA	1:C:1721:GLU:HB3	1.84	0.58
1:C:1745:ILE:O	1:C:1964:ARG:NH2	2.36	0.58
1:C:2158:CYS:O	1:C:2162:ILE:HG12	2.02	0.58
1:C:3244:PRO:HD2	1:C:3249:LEU:HD21	1.85	0.58
1:C:3446:SER:O	1:C:3452:LYS:NZ	2.35	0.58
1:A:467:LYS:NZ	1:A:471:LEU:HB2	2.17	0.58
1:A:2627:VAL:HG13	1:A:2678:LEU:HD21	1.84	0.58
1:A:3014:CYS:SG	1:A:3074:SER:OG	2.59	0.58
1:A:3300:ALA:HB3	1:A:3301:PRO:HD3	1.84	0.58
2:E:58:GLY:HA3	2:E:80:TYR:HB3	1.84	0.58
2:E:75:THR:HG22	2:E:98:VAL:HG22	1.86	0.58
1:B:1745:ILE:O	1:B:1964:ARG:NH2	2.36	0.58
1:B:1974:ARG:HH21	1:B:3642:TYR:HB2	1.67	0.58
1:B:2013:LYS:NZ	1:B:3661:TRP:O	2.36	0.58
1:B:2348:GLU:O	1:B:2352:VAL:HG23	2.02	0.58
1:B:3592:ILE:O	1:B:3596:VAL:HG23	2.03	0.58
1:B:4068:LEU:O	1:B:4072:VAL:HG22	2.04	0.58
1:B:4681:LEU:HD13	1:B:4724:VAL:HG21	1.85	0.58
1:D:154:SER:OG	1:D:155:LYS:N	2.34	0.58
1:D:1277:TRP:HD1	1:D:1559:GLN:HG3	1.68	0.58
1:D:1724:CYS:HA	1:D:1851:MET:HE1	1.84	0.58
1:D:2348:GLU:O	1:D:2352:VAL:HG23	2.02	0.58
1:D:3354:LEU:HG	1:D:3358:PHE:HB3	1.85	0.58
1:D:3670:GLU:OE1	1:D:3731:LYS:NZ	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3796:SER:HA	1:D:3799:LYS:HE3	1.86	0.58
1:D:3981:ALA:HA	1:D:3986:TRP:CZ2	2.36	0.58
1:D:4873:ASP:OD1	1:D:4875:LYS:NZ	2.36	0.58
1:C:647:ASN:ND2	1:C:820:ARG:O	2.33	0.58
1:C:755:ILE:HD12	1:C:768:PHE:HD2	1.67	0.58
1:C:1277:TRP:HD1	1:C:1559:GLN:HG3	1.68	0.58
1:C:2516:ASP:OD1	1:C:2516:ASP:N	2.35	0.58
1:C:2518:LEU:HD22	1:C:2565:CYS:HB3	1.84	0.58
1:C:2868:SER:HB3	1:C:2871:LEU:HD22	1.84	0.58
1:A:2352:VAL:O	1:A:2356:LEU:HG	2.03	0.58
2:E:25:HIS:ND1	2:E:40:ARG:HD2	2.19	0.58
1:B:1277:TRP:HD1	1:B:1559:GLN:HG3	1.68	0.58
1:B:1674:CYS:HB2	1:B:1685:LEU:HD11	1.84	0.58
1:B:3357:HIS:O	1:B:3361:THR:HG23	2.04	0.58
1:B:3566:SER:H	1:B:3569:LEU:HD12	1.67	0.58
1:B:3943:ILE:HG22	1:B:3948:LYS:HG2	1.85	0.58
1:B:3991:GLY:O	1:B:3994:HIS:ND1	2.36	0.58
1:B:4584:ASP:HA	1:B:4628:VAL:HA	1.86	0.58
1:D:2044:ILE:HG23	1:D:3667:HIS:HD2	1.68	0.58
1:D:2226:PRO:HB2	1:D:2268[A]:GLN:HE21	1.67	0.58
1:D:2352:VAL:O	1:D:2356:LEU:HG	2.03	0.58
1:D:4157:ASP:OD1	1:D:4159:ARG:NE	2.35	0.58
1:C:394:GLN:HE22	1:C:396:GLU:H	1.51	0.58
1:C:2352:VAL:O	1:C:2356:LEU:HG	2.03	0.58
1:C:3527:PRO:HG2	1:C:3572:GLN:HB3	1.86	0.58
1:C:3592:ILE:O	1:C:3596:VAL:HG23	2.03	0.58
1:C:3842:LEU:HA	1:C:3875:MET:HE3	1.83	0.58
1:C:3943:ILE:HG22	1:C:3948:LYS:HG2	1.85	0.58
1:C:4556:SER:HB2	1:C:4664:LEU:HD13	1.83	0.58
1:A:154:SER:OG	1:A:155:LYS:N	2.34	0.58
1:A:771:PHE:HB3	1:A:1472:VAL:HG23	1.85	0.58
1:A:913:LEU:HD23	1:A:918:ARG:HG2	1.84	0.58
1:A:2348:GLU:O	1:A:2352:VAL:HG23	2.02	0.58
2:H:42:ARG:HB3	2:H:44:LYS:NZ	2.19	0.58
1:B:68:THR:O	1:B:110:ARG:N	2.34	0.58
1:B:115:ARG:HD2	1:B:395:GLN:HE22	1.68	0.58
1:B:929:LEU:O	1:B:933:LEU:HG	2.03	0.58
1:B:985:VAL:HB	1:B:1043:VAL:HG21	1.85	0.58
1:B:2226:PRO:HB2	1:B:2268[A]:GLN:HE21	1.67	0.58
1:B:3522:LEU:CD1	1:C:1220:GLN:HB3	2.07	0.58
1:B:3527:PRO:HG2	1:B:3572:GLN:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4564:PHE:HA	1:B:4567:LEU:HG	1.85	0.58
1:D:1616:GLU:OE1	1:D:1616:GLU:N	2.36	0.58
1:D:1995:THR:O	1:D:1999:ARG:N	2.31	0.58
1:D:3819:TYR:O	1:D:3823:LYS:HG2	2.03	0.58
1:D:4869:GLU:OE1	1:D:4869:GLU:N	2.29	0.58
1:C:46:LEU:HD13	1:C:134:ASP:HB2	1.84	0.58
1:C:3100:SER:HA	1:C:3103:ILE:HD12	1.85	0.58
1:C:3434:LEU:O	1:C:3438:VAL:HG12	2.03	0.58
1:C:3970:GLN:HE21	1:C:5004:THR:HA	1.67	0.58
1:C:4157:ASP:OD1	1:C:4159:ARG:NE	2.35	0.58
1:C:5013:MET:HG2	1:C:5021:PHE:HB3	1.84	0.58
1:A:1851:MET:HE2	1:A:1851:MET:N	2.17	0.58
1:A:2868:SER:HB3	1:A:2871:LEU:HD22	1.84	0.58
1:A:3308:THR:OG1	1:A:3310:ASP:OD2	2.16	0.58
1:A:3428:ASN:ND2	1:A:3430:ASN:OD1	2.29	0.58
1:A:3981:ALA:HA	1:A:3986:TRP:CZ2	2.36	0.58
2:G:78:PRO:HA	2:G:81:ALA:HB3	1.85	0.58
1:B:303:ASP:OD2	1:B:305:CYS:N	2.36	0.58
1:B:781:VAL:HG11	1:B:789:VAL:HG21	1.86	0.58
1:B:2970:SER:HA	1:B:2973:PHE:CD2	2.38	0.58
1:B:4640:GLU:HB2	1:B:4641:PRO:HD3	1.84	0.58
1:D:929:LEU:O	1:D:933:LEU:HG	2.03	0.58
1:D:1806:ALA:O	1:D:1810:LYS:HG2	2.04	0.58
1:D:2639:MET:SD	1:D:2639:MET:N	2.72	0.58
1:D:3145:GLN:O	1:D:3149:GLN:HG3	2.04	0.58
1:D:3273:THR:HA	1:D:3276:MET:SD	2.44	0.58
1:D:3293:PRO:HB2	1:D:3298:ALA:HB2	1.84	0.58
1:D:3327:LEU:HB2	1:D:3364:ARG:HH21	1.69	0.58
1:C:404:ILE:HG21	1:C:481:GLU:HG3	1.85	0.58
1:C:929:LEU:O	1:C:933:LEU:HG	2.04	0.58
1:C:2044:ILE:HG23	1:C:3667:HIS:HD2	1.68	0.58
1:C:2293:GLN:OE1	1:C:2293:GLN:N	2.24	0.58
1:C:3658:LYS:HA	1:C:3662:ILE:HG22	1.85	0.58
1:C:3788:GLY:HA2	1:C:3835:LEU:HG	1.86	0.58
1:C:4584:ASP:HA	1:C:4628:VAL:HA	1.86	0.58
1:A:781:VAL:HG11	1:A:789:VAL:HG21	1.86	0.58
1:A:2782:ASP:OD1	1:A:2787:THR:OG1	2.21	0.58
1:A:3527:PRO:HG2	1:A:3572:GLN:HB3	1.86	0.58
1:A:4640:GLU:HB2	1:A:4641:PRO:HD3	1.84	0.58
1:B:2091:PRO:HB3	1:B:2096:GLU:HB3	1.86	0.58
1:B:2352:VAL:O	1:B:2356:LEU:HG	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2741:GLU:HG2	1:B:2743:LEU:HD23	1.85	0.58
1:B:3788:GLY:HA2	1:B:3835:LEU:HG	1.86	0.58
1:D:1246:GLU:O	1:D:1599:MET:N	2.30	0.58
1:D:2138:LEU:HD22	1:D:3658:LYS:HE2	1.86	0.58
1:D:3267:PRO:O	1:D:3271:GLU:HB2	2.03	0.58
1:D:3658:LYS:HA	1:D:3662:ILE:HG22	1.85	0.58
1:C:685:GLY:HA3	1:C:715:GLY:HA2	1.85	0.58
1:C:1808:ARG:NH1	1:C:1853:ILE:O	2.35	0.58
1:C:2595:LEU:O	1:C:2600:ARG:NH2	2.37	0.58
1:C:2970:SER:HA	1:C:2973:PHE:CD2	2.38	0.58
1:A:120:CYS:HA	1:A:135:VAL:HA	1.84	0.58
1:A:929:LEU:O	1:A:933:LEU:HG	2.03	0.58
1:A:3566:SER:H	1:A:3569:LEU:HD12	1.67	0.58
1:A:3969:ILE:HD11	1:A:3977:GLN:HG2	1.86	0.58
1:B:46:LEU:HD13	1:B:134:ASP:HB2	1.84	0.58
1:B:120:CYS:HA	1:B:135:VAL:HA	1.84	0.58
1:B:1717:SER:HA	1:B:1721:GLU:HB3	1.84	0.58
1:B:5013:MET:HG2	1:B:5021:PHE:HB3	1.84	0.58
1:D:1851:MET:HE2	1:D:1851:MET:N	2.19	0.58
1:D:2013:LYS:NZ	1:D:3661:TRP:O	2.36	0.58
1:D:2026:ASP:OD1	1:D:2027:ILE:N	2.34	0.58
1:D:3592:ILE:O	1:D:3596:VAL:HG23	2.03	0.58
1:C:2013:LYS:NZ	1:C:3661:TRP:O	2.36	0.58
1:C:2091:PRO:HB3	1:C:2096:GLU:HB3	1.86	0.58
1:C:2442:LEU:H	1:C:2444:GLN:HE21	1.50	0.58
1:C:2626:LEU:HD13	1:C:2644:LEU:HD21	1.85	0.58
1:C:2640:PRO:HA	1:C:2643:LEU:HG	1.84	0.58
1:C:3293:PRO:HB2	1:C:3298:ALA:HB2	1.84	0.58
1:C:3777:GLU:OE1	1:C:3777:GLU:N	2.35	0.58
1:C:5032:TYR:HB3	1:C:5036:LEU:HG	1.86	0.58
1:A:3315:LEU:HA	1:A:3318:ASN:HD22	1.67	0.58
1:A:3735:LEU:HB3	1:A:3766:GLN:HE22	1.68	0.58
2:H:25:HIS:HE1	2:H:40:ARG:HA	1.69	0.58
1:B:394:GLN:HE22	1:B:396:GLU:H	1.51	0.58
1:B:1808:ARG:NH1	1:B:1853:ILE:O	2.35	0.58
1:B:2626:LEU:HD13	1:B:2644:LEU:HD21	1.85	0.58
1:B:3670:GLU:HB3	1:B:3728:ILE:HG23	1.84	0.58
1:B:3951:PHE:O	1:B:3955:MET:HG2	2.04	0.58
1:B:3969:ILE:HD11	1:B:3977:GLN:HG2	1.86	0.58
1:D:15:ARG:HA	1:D:100:THR:HA	1.84	0.58
1:D:120:CYS:HA	1:D:135:VAL:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:781:VAL:HG11	1:D:789:VAL:HG21	1.86	0.58
1:D:1575:LEU:O	1:D:1579:MET:HG3	2.04	0.58
1:D:2027:ILE:HA	1:D:2030:ASP:OD1	2.04	0.58
1:D:3247:ASP:N	1:D:3247:ASP:OD1	2.37	0.58
1:D:3527:PRO:HG2	1:D:3572:GLN:HB3	1.86	0.58
1:C:3273:THR:HA	1:C:3276:MET:SD	2.44	0.58
1:A:3327:LEU:HB2	1:A:3364:ARG:HH21	1.69	0.58
1:A:3811:GLU:HG2	1:A:3815:LYS:HE2	1.86	0.58
1:A:3951:PHE:O	1:A:3955:MET:HG2	2.04	0.58
1:B:685:GLY:HA3	1:B:715:GLY:HA2	1.85	0.58
1:B:1046:LEU:HA	1:B:1049:TYR:CD2	2.39	0.58
1:B:1575:LEU:O	1:B:1579:MET:HG3	2.04	0.58
1:B:3434:LEU:O	1:B:3438:VAL:HG12	2.03	0.58
1:B:3510:ILE:O	1:B:3514:LEU:HG	2.04	0.58
1:B:3658:LYS:HA	1:B:3662:ILE:HG22	1.85	0.58
1:B:3735:LEU:HB3	1:B:3766:GLN:HE22	1.68	0.58
1:B:5032:TYR:HB3	1:B:5036:LEU:HG	1.86	0.58
1:D:3140:LEU:HA	1:D:3143:LEU:HD12	1.86	0.58
1:D:3735:LEU:HB3	1:D:3766:GLN:HE22	1.68	0.58
1:C:379:HIS:HB3	1:C:382:GLY:HA2	1.86	0.58
1:C:1772:ARG:NH2	1:C:1952:GLN:OE1	2.37	0.58
1:C:1806:ALA:O	1:C:1810:LYS:HG2	2.04	0.58
1:C:3315:LEU:HA	1:C:3318:ASN:HD22	1.67	0.58
1:C:3510:ILE:O	1:C:3514:LEU:HG	2.03	0.58
1:C:3735:LEU:HB3	1:C:3766:GLN:HE22	1.68	0.58
1:C:3951:PHE:O	1:C:3955:MET:HG2	2.04	0.58
1:A:213:TYR:N	1:A:341:TYR:H	2.02	0.57
1:A:985:VAL:HB	1:A:1043:VAL:HG21	1.85	0.57
1:A:2798:SER:OG	1:A:2801:ASP:OD2	2.18	0.57
1:A:3267:PRO:O	1:A:3271:GLU:HB2	2.03	0.57
1:A:3777:GLU:OE1	1:A:3777:GLU:N	2.35	0.57
1:A:4564:PHE:HA	1:A:4567:LEU:HG	1.85	0.57
2:F:51:GLY:N	2:F:60:GLU:OE2	2.32	0.57
1:B:980:ALA:O	1:B:984:LEU:HG	2.04	0.57
1:B:1011:GLN:N	1:B:1011:GLN:OE1	2.37	0.57
1:B:1229:ASN:H	1:B:1827:ARG:NH2	2.02	0.57
1:B:2527:LEU:HD22	1:B:2578:MET:HE1	1.85	0.57
1:B:2640:PRO:HA	1:B:2643:LEU:HG	1.85	0.57
1:B:3247:ASP:N	1:B:3247:ASP:OD1	2.37	0.57
1:B:3273:THR:HA	1:B:3276:MET:SD	2.44	0.57
1:B:3796:SER:HA	1:B:3799:LYS:HE3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3819:TYR:O	1:B:3823:LYS:HG2	2.03	0.57
1:B:4036:VAL:HG12	1:B:4153:HIS:HA	1.85	0.57
1:D:215:THR:HG22	1:D:273:HIS:HA	1.86	0.57
1:D:1745:ILE:O	1:D:1964:ARG:NH2	2.36	0.57
1:D:1873:GLU:OE1	1:D:1873:GLU:N	2.37	0.57
1:C:68:THR:O	1:C:110:ARG:N	2.34	0.57
1:C:3267:PRO:O	1:C:3271:GLU:HB2	2.03	0.57
1:C:3768:SER:HA	1:C:3771:HIS:NE2	2.19	0.57
1:C:3796:SER:HA	1:C:3799:LYS:HE3	1.86	0.57
1:C:4068:LEU:O	1:C:4072:VAL:HG22	2.04	0.57
1:A:467:LYS:HZ1	1:A:471:LEU:HB2	1.68	0.57
1:A:681:HIS:CE1	1:A:683:ARG:HB2	2.39	0.57
1:A:2027:ILE:HA	1:A:2030:ASP:OD1	2.04	0.57
1:A:2595:LEU:O	1:A:2600:ARG:NH2	2.37	0.57
1:A:3145:GLN:O	1:A:3149:GLN:HG3	2.04	0.57
1:A:3180:ASN:H	1:A:3183:VAL:HB	1.70	0.57
1:A:3315:LEU:O	1:A:3319:ILE:HG12	2.03	0.57
1:A:3434:LEU:O	1:A:3438:VAL:HG12	2.03	0.57
1:A:3510:ILE:O	1:A:3514:LEU:HG	2.03	0.57
1:A:3943:ILE:HG22	1:A:3948:LYS:HG2	1.85	0.57
1:B:913:LEU:HD23	1:B:918:ARG:HG2	1.84	0.57
1:B:1443:GLN:OE1	1:B:1557:THR:N	2.38	0.57
1:B:2230:THR:OG1	1:B:2268[B]:GLN:NE2	2.38	0.57
1:B:2518:LEU:HD22	1:B:2565:CYS:HB3	1.84	0.57
1:B:3145:GLN:O	1:B:3149:GLN:HG3	2.04	0.57
1:D:3100:SER:HA	1:D:3103:ILE:HD12	1.85	0.57
1:D:3373:VAL:O	1:D:3377:GLU:HG2	2.04	0.57
1:D:3510:ILE:O	1:D:3514:LEU:HG	2.04	0.57
1:D:4068:LEU:O	1:D:4072:VAL:HG22	2.04	0.57
1:D:4711:PHE:O	1:D:4713:SER:N	2.37	0.57
1:C:916:PRO:HA	1:C:919:ASN:HD22	1.68	0.57
1:C:1011:GLN:OE1	1:C:1011:GLN:N	2.37	0.57
1:C:1873:GLU:N	1:C:1873:GLU:OE1	2.37	0.57
1:C:2627:VAL:HG13	1:C:2678:LEU:HD21	1.84	0.57
1:C:2973:PHE:CD1	1:C:2995:ILE:HG12	2.40	0.57
1:C:3811:GLU:HG2	1:C:3815:LYS:HE2	1.86	0.57
1:A:15:ARG:HA	1:A:100:THR:HA	1.84	0.57
1:A:670:GLU:HA	1:A:740:PRO:HG3	1.86	0.57
1:A:1443:GLN:OE1	1:A:1557:THR:N	2.38	0.57
1:A:1772:ARG:NH2	1:A:1952:GLN:OE1	2.37	0.57
1:A:2626:LEU:HD13	1:A:2644:LEU:HD21	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2973:PHE:CD1	1:A:2995:ILE:HG12	2.40	0.57
1:A:3478:MET:HE3	1:B:1141:ARG:HH12	1.68	0.57
1:B:2138:LEU:HD22	1:B:3658:LYS:HE2	1.86	0.57
1:B:2517:PHE:O	1:B:2520:HIS:ND1	2.33	0.57
1:B:3293:PRO:HB2	1:B:3298:ALA:HB2	1.84	0.57
1:D:1430:THR:HG23	1:D:1573:MET:SD	2.44	0.57
1:D:1443:GLN:OE1	1:D:1557:THR:N	2.38	0.57
1:D:2626:LEU:HD13	1:D:2644:LEU:HD21	1.85	0.57
1:D:3777:GLU:OE1	1:D:3777:GLU:N	2.35	0.57
1:D:4001:MET:O	1:D:4005:GLN:NE2	2.34	0.57
1:C:215:THR:HG22	1:C:273:HIS:HA	1.86	0.57
1:C:781:VAL:HG11	1:C:789:VAL:HG21	1.86	0.57
1:C:1424:PRO:HA	1:C:1427:ILE:HG22	1.86	0.57
1:C:3357:HIS:O	1:C:3361:THR:HG23	2.04	0.57
1:A:215:THR:HG22	1:A:273:HIS:HA	1.86	0.57
1:A:439:GLU:OE2	1:A:439:GLU:N	2.25	0.57
1:A:2640:PRO:HA	1:A:2643:LEU:HG	1.85	0.57
1:A:4849:TYR:O	1:A:4853:VAL:HG23	2.05	0.57
1:A:5029:ARG:O	1:A:5033:GLU:N	2.38	0.57
2:F:3:GLN:OE1	2:F:3:GLN:N	2.37	0.57
1:B:213:TYR:N	1:B:341:TYR:H	2.02	0.57
1:B:1430:THR:HG23	1:B:1573:MET:SD	2.44	0.57
1:B:3100:SER:HA	1:B:3103:ILE:HD12	1.85	0.57
1:B:5029:ARG:O	1:B:5033:GLU:N	2.38	0.57
1:D:115:ARG:HD2	1:D:395:GLN:HE22	1.68	0.57
1:D:2598:ALA:O	1:D:2602:VAL:HG23	2.05	0.57
1:D:2693:GLN:O	1:D:2693:GLN:NE2	2.37	0.57
1:C:439:GLU:OE2	1:C:439:GLU:N	2.25	0.57
1:C:2244:ARG:HH12	1:C:3861:GLU:H	1.51	0.57
1:C:2479:LEU:HA	1:C:2485:LEU:HA	1.87	0.57
1:C:2669:GLU:HA	1:C:2672:LEU:HB2	1.85	0.57
1:C:4036:VAL:HG12	1:C:4153:HIS:HA	1.85	0.57
1:A:259:LEU:HD11	1:A:393:CYS:HB2	1.86	0.57
1:A:490:CYS:O	1:A:494:LEU:HD12	2.05	0.57
1:A:2516:ASP:OD1	1:A:2516:ASP:N	2.35	0.57
1:A:2741:GLU:HG2	1:A:2743:LEU:HD23	1.85	0.57
1:A:3106:MET:SD	1:A:3106:MET:N	2.78	0.57
1:A:3373:VAL:O	1:A:3377:GLU:HG2	2.04	0.57
1:A:3611:HIS:ND1	1:A:3611:HIS:O	2.38	0.57
1:A:4952:GLU:O	1:A:4956:THR:OG1	2.19	0.57
1:B:221:ARG:HH21	1:B:259:LEU:HB2	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:379:HIS:HB3	1:B:382:GLY:HA2	1.86	0.57
1:B:771:PHE:HB3	1:B:1472:VAL:HG23	1.85	0.57
1:B:971:ASP:OD2	1:B:974:HIS:ND1	2.33	0.57
1:B:1806:ALA:O	1:B:1810:LYS:HG2	2.04	0.57
1:B:4952:GLU:O	1:B:4956:THR:OG1	2.19	0.57
1:D:54:ASN:O	1:D:56:GLN:N	2.38	0.57
1:D:221:ARG:HH21	1:D:259:LEU:HB2	1.69	0.57
1:D:681:HIS:CE1	1:D:683:ARG:HB2	2.39	0.57
1:C:54:ASN:O	1:C:56:GLN:N	2.38	0.57
1:C:771:PHE:HB3	1:C:1472:VAL:HG23	1.85	0.57
1:C:2693:GLN:NE2	1:C:2693:GLN:O	2.37	0.57
1:C:3145:GLN:O	1:C:3149:GLN:HG3	2.04	0.57
1:C:3327:LEU:HB2	1:C:3364:ARG:HH21	1.69	0.57
1:C:4093:PHE:O	1:C:4097:MET:HG2	2.05	0.57
1:A:2138:LEU:HD22	1:A:3658:LYS:HE2	1.86	0.57
1:A:3100:SER:HA	1:A:3103:ILE:HD12	1.85	0.57
1:A:3142:THR:HA	1:A:3145:GLN:OE1	2.05	0.57
1:A:3273:THR:HA	1:A:3276:MET:SD	2.44	0.57
1:A:3575:LEU:HD21	1:B:1208:VAL:CG2	2.28	0.57
1:A:3788:GLY:HA2	1:A:3835:LEU:HG	1.86	0.57
1:A:4068:LEU:O	1:A:4072:VAL:HG22	2.04	0.57
1:A:4664:LEU:HD23	1:A:4665:LYS:HZ2	1.69	0.57
1:A:4711:PHE:O	1:A:4713:SER:N	2.37	0.57
2:G:5:GLU:HB3	2:G:73:LYS:HE3	1.85	0.57
1:B:495:ASN:O	1:B:553:ARG:NH2	2.38	0.57
1:B:2693:GLN:NE2	1:B:2693:GLN:O	2.37	0.57
1:D:44:ASN:ND2	1:D:46:LEU:O	2.38	0.57
1:D:497:TYR:O	1:D:553:ARG:NH2	2.33	0.57
1:D:980:ALA:O	1:D:984:LEU:HG	2.04	0.57
1:D:2244:ARG:HH12	1:D:3861:GLU:H	1.51	0.57
1:D:3142:THR:HA	1:D:3145:GLN:OE1	2.05	0.57
1:D:3322:ILE:HG13	1:D:3326:ASN:ND2	2.20	0.57
1:D:3951:PHE:O	1:D:3955:MET:HG2	2.04	0.57
1:D:3969:ILE:HD11	1:D:3977:GLN:HG2	1.86	0.57
1:D:5032:TYR:HB3	1:D:5036:LEU:HG	1.86	0.57
1:C:3350:ARG:O	1:C:3415:TYR:OH	2.23	0.57
1:C:3373:VAL:O	1:C:3377:GLU:HG2	2.04	0.57
1:C:3711:THR:O	1:C:3713:LYS:NZ	2.34	0.57
1:C:4976:GLU:O	1:C:4980:LEU:HG	2.05	0.57
1:A:44:ASN:ND2	1:A:46:LEU:O	2.38	0.57
1:A:111:HIS:NE2	1:A:113:HIS:HB3	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1011:GLN:OE1	1:A:1011:GLN:N	2.37	0.57
1:A:1806:ALA:O	1:A:1810:LYS:HG2	2.04	0.57
1:A:3140:LEU:HA	1:A:3143:LEU:HD12	1.86	0.57
1:A:3768:SER:HA	1:A:3771:HIS:NE2	2.20	0.57
2:E:28:GLY:N	2:E:37:ASP:O	2.38	0.57
2:G:3:GLN:OE1	2:G:3:GLN:N	2.38	0.57
1:B:54:ASN:O	1:B:56:GLN:N	2.38	0.57
1:B:681:HIS:CE1	1:B:683:ARG:HB2	2.39	0.57
1:B:1772:ARG:NH2	1:B:1952:GLN:OE1	2.37	0.57
1:B:3106:MET:N	1:B:3106:MET:SD	2.78	0.57
1:B:3446:SER:O	1:B:3452:LYS:NZ	2.35	0.57
1:D:1011:GLN:OE1	1:D:1011:GLN:N	2.37	0.57
1:D:3106:MET:N	1:D:3106:MET:SD	2.78	0.57
1:D:4093:PHE:O	1:D:4097:MET:HG2	2.05	0.57
1:C:221:ARG:HH21	1:C:259:LEU:HB2	1.69	0.57
1:C:495:ASN:O	1:C:553:ARG:NH2	2.38	0.57
1:C:2598:ALA:O	1:C:2602:VAL:HG23	2.05	0.57
1:C:2755:ILE:HD13	1:C:2810:LYS:HA	1.86	0.57
1:C:4849:TYR:O	1:C:4853:VAL:HG23	2.04	0.57
1:A:221:ARG:HH21	1:A:259:LEU:HB2	1.69	0.57
1:A:873:LYS:HD3	1:A:874:LEU:HD23	1.85	0.57
1:A:1229:ASN:H	1:A:1827:ARG:NH2	2.02	0.57
1:A:3322:ILE:HG13	1:A:3326:ASN:ND2	2.20	0.57
1:A:3357:HIS:O	1:A:3361:THR:HG23	2.04	0.57
1:A:4036:VAL:HG12	1:A:4153:HIS:HA	1.86	0.57
2:G:105:LYS:NZ	2:G:106:LEU:O	2.37	0.57
1:B:44:ASN:ND2	1:B:46:LEU:O	2.38	0.57
1:B:490:CYS:O	1:B:494:LEU:HD12	2.05	0.57
1:B:1424:PRO:HA	1:B:1427:ILE:HG22	1.86	0.57
1:B:3180:ASN:H	1:B:3183:VAL:HB	1.70	0.57
1:B:3367:LYS:O	1:B:3371:LYS:HG3	2.05	0.57
1:B:3811:GLU:HG2	1:B:3815:LYS:HE2	1.86	0.57
1:D:490:CYS:O	1:D:494:LEU:HD12	2.05	0.57
1:D:873:LYS:HD3	1:D:874:LEU:HD23	1.85	0.57
1:D:1508:ARG:HH11	1:D:1508:ARG:HA	1.70	0.57
1:D:3315:LEU:O	1:D:3319:ILE:HG12	2.03	0.57
1:D:3788:GLY:HA2	1:D:3835:LEU:HG	1.86	0.57
1:C:115:ARG:HH11	1:C:395:GLN:HE22	1.53	0.57
1:C:670:GLU:HA	1:C:740:PRO:HG3	1.86	0.57
1:C:3247:ASP:OD1	1:C:3247:ASP:N	2.37	0.57
1:A:115:ARG:HD2	1:A:395:GLN:HE22	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:639:ASN:ND2	1:A:676:THR:OG1	2.37	0.57
1:A:1762:LEU:HD12	1:A:1763:PRO:HD2	1.86	0.57
1:A:2336:ARG:NH1	1:A:2431:ASP:OD2	2.38	0.57
1:A:3367:LYS:O	1:A:3371:LYS:HG3	2.05	0.57
1:A:3796:SER:HA	1:A:3799:LYS:HE3	1.86	0.57
1:A:4584:ASP:HA	1:A:4628:VAL:HA	1.86	0.57
2:G:40:ARG:NH1	1:C:674:PHE:HE2	2.01	0.57
1:B:3322:ILE:HG13	1:B:3326:ASN:ND2	2.20	0.57
1:B:3373:VAL:O	1:B:3377:GLU:HG2	2.04	0.57
1:D:115:ARG:HH11	1:D:395:GLN:HE22	1.53	0.57
1:D:394:GLN:HE22	1:D:396:GLU:H	1.51	0.57
1:D:2577:ILE:HD12	1:D:2578:MET:N	2.20	0.57
1:D:3346:VAL:HG21	1:D:3411:LEU:HB2	1.86	0.57
1:D:3943:ILE:HG22	1:D:3948:LYS:HG2	1.85	0.57
1:D:4036:VAL:HG12	1:D:4153:HIS:HA	1.86	0.57
1:D:4976:GLU:O	1:D:4980:LEU:HG	2.05	0.57
1:C:985:VAL:HB	1:C:1043:VAL:HG21	1.85	0.57
1:C:1229:ASN:H	1:C:1827:ARG:NH2	2.02	0.57
1:C:2559:LEU:O	1:C:2563:THR:HG23	2.05	0.57
1:C:4689:THR:OG1	1:C:4690:GLU:OE1	2.16	0.57
1:A:54:ASN:O	1:A:56:GLN:N	2.38	0.57
1:A:213:TYR:CD1	1:A:337:PRO:HB2	2.40	0.57
1:A:2577:ILE:HD12	1:A:2578:MET:N	2.20	0.57
1:A:4929:LEU:HD23	1:A:4932:ILE:HD11	1.87	0.57
1:A:5032:TYR:HB3	1:A:5036:LEU:HG	1.86	0.57
1:B:259:LEU:HD11	1:B:393:CYS:HB2	1.86	0.57
1:B:467:LYS:HZ1	1:B:471:LEU:HB2	1.69	0.57
1:B:1263:THR:OG1	1:B:1265:ASP:OD2	2.18	0.57
1:B:1873:GLU:OE1	1:B:1873:GLU:N	2.37	0.57
1:B:2336:ARG:NH1	1:B:2431:ASP:OD2	2.38	0.57
1:B:2479:LEU:HA	1:B:2485:LEU:HA	1.86	0.57
1:B:2973:PHE:CD1	1:B:2995:ILE:HG12	2.39	0.57
1:D:213:TYR:CD1	1:D:337:PRO:HB2	2.40	0.57
1:D:1869:GLU:N	1:D:1869:GLU:OE2	2.38	0.57
1:D:2091:PRO:HB3	1:D:2096:GLU:HB3	1.86	0.57
1:D:2798:SER:OG	1:D:2801:ASP:OD2	2.18	0.57
1:D:4584:ASP:HA	1:D:4628:VAL:HA	1.86	0.57
1:C:259:LEU:HD11	1:C:393:CYS:HB2	1.86	0.57
1:C:681:HIS:CE1	1:C:683:ARG:HB2	2.39	0.57
1:C:873:LYS:HD3	1:C:874:LEU:HD23	1.85	0.57
1:C:1046:LEU:HA	1:C:1049:TYR:CD2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1430:THR:HG23	1:C:1573:MET:SD	2.44	0.57
1:C:1508:ARG:HA	1:C:1508:ARG:HH11	1.70	0.57
1:C:1575:LEU:O	1:C:1579:MET:HG3	2.04	0.57
1:C:2138:LEU:HD22	1:C:3658:LYS:HE2	1.86	0.57
1:C:3142:THR:HA	1:C:3145:GLN:OE1	2.05	0.57
1:A:115:ARG:HH11	1:A:395:GLN:HE22	1.53	0.56
1:A:1430:THR:HG23	1:A:1573:MET:SD	2.44	0.56
1:A:2044:ILE:HG23	1:A:3667:HIS:HD2	1.68	0.56
1:A:2527:LEU:HD22	1:A:2578:MET:HE1	1.86	0.56
1:A:4869:GLU:OE1	1:A:4869:GLU:N	2.29	0.56
1:A:4877:ASP:HA	1:D:4582:VAL:CG2	2.34	0.56
2:H:54:GLU:OE1	2:H:54:GLU:N	2.31	0.56
2:G:20:GLN:OE1	2:G:21:THR:N	2.38	0.56
1:B:2358:ILE:HG13	1:B:2359:ARG:HH21	1.70	0.56
1:B:2595:LEU:O	1:B:2600:ARG:NH2	2.37	0.56
1:B:4093:PHE:O	1:B:4097:MET:HG2	2.05	0.56
1:B:4849:TYR:O	1:B:4853:VAL:HG23	2.04	0.56
1:B:4929:LEU:HD23	1:B:4932:ILE:HD11	1.87	0.56
1:D:213:TYR:N	1:D:341:TYR:H	2.02	0.56
1:D:916:PRO:HA	1:D:919:ASN:HD22	1.68	0.56
1:D:1077:ALA:HA	1:D:1236:THR:HG22	1.87	0.56
1:D:2595:LEU:O	1:D:2600:ARG:NH2	2.37	0.56
1:D:3768:SER:HA	1:D:3771:HIS:NE2	2.20	0.56
1:D:4849:TYR:O	1:D:4853:VAL:HG23	2.05	0.56
1:C:44:ASN:ND2	1:C:46:LEU:O	2.38	0.56
1:C:3573:MET:O	1:C:3577:ARG:HG2	2.05	0.56
1:C:4711:PHE:O	1:C:4713:SER:N	2.37	0.56
1:A:980:ALA:O	1:A:984:LEU:HG	2.04	0.56
1:A:985:VAL:HG21	1:A:1043:VAL:HG11	1.88	0.56
1:A:1873:GLU:OE1	1:A:1873:GLU:N	2.37	0.56
1:A:2091:PRO:HB3	1:A:2096:GLU:HB3	1.86	0.56
1:A:2449:GLU:O	1:A:2453:ILE:HG12	2.06	0.56
1:A:2693:GLN:O	1:A:2693:GLN:NE2	2.37	0.56
1:A:2755:ILE:HD13	1:A:2810:LYS:HA	1.86	0.56
1:A:3247:ASP:OD1	1:A:3247:ASP:N	2.37	0.56
1:A:3658:LYS:HA	1:A:3662:ILE:HG22	1.85	0.56
1:A:4563:ARG:NH2	1:A:4815:ASP:OD2	2.39	0.56
2:H:37:ASP:HB2	1:D:1782:PHE:HD2	1.70	0.56
1:B:119:SER:O	1:B:136:GLY:N	2.33	0.56
1:B:873:LYS:HD3	1:B:874:LEU:HD23	1.85	0.56
1:B:2044:ILE:HG23	1:B:3667:HIS:HD2	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3350:ARG:O	1:B:3415:TYR:OH	2.23	0.56
1:B:4885:PHE:O	1:B:4889:VAL:HG22	2.05	0.56
1:D:1046:LEU:HA	1:D:1049:TYR:CD2	2.39	0.56
1:D:2479:LEU:HA	1:D:2485:LEU:HA	1.87	0.56
1:D:2755:ILE:HD13	1:D:2810:LYS:HA	1.86	0.56
1:D:2973:PHE:CD1	1:D:2995:ILE:HG12	2.39	0.56
1:C:213:TYR:CD1	1:C:337:PRO:HB2	2.40	0.56
1:C:303:ASP:OD2	1:C:305:CYS:N	2.36	0.56
1:C:3322:ILE:HG13	1:C:3326:ASN:ND2	2.20	0.56
1:A:840:VAL:HG22	1:A:1199:VAL:HG13	1.88	0.56
1:A:1046:LEU:HA	1:A:1049:TYR:CD2	2.39	0.56
1:A:2244:ARG:HH12	1:A:3861:GLU:H	1.51	0.56
1:A:3346:VAL:HG21	1:A:3411:LEU:HB2	1.86	0.56
1:A:4093:PHE:O	1:A:4097:MET:HG2	2.05	0.56
2:H:7:ILE:CG1	1:D:719:LEU:CD2	2.80	0.56
2:G:40:ARG:CZ	1:C:674:PHE:CZ	2.89	0.56
2:F:26:TYR:N	2:F:39:SER:OG	2.36	0.56
1:B:215:THR:HG22	1:B:273:HIS:HA	1.86	0.56
1:B:1246:GLU:O	1:B:1599:MET:N	2.31	0.56
1:B:2358:ILE:HB	1:C:195:PHE:CG	2.39	0.56
1:B:2559:LEU:O	1:B:2563:THR:HG23	2.05	0.56
1:B:2598:ALA:O	1:B:2602:VAL:HG23	2.05	0.56
1:B:3430:ASN:O	1:B:3434:LEU:HG	2.06	0.56
1:B:3874:VAL:HG13	1:B:3875:MET:HE2	1.86	0.56
1:B:5001:THR:OG1	1:B:5002:GLU:OE2	2.24	0.56
1:D:128:THR:O	1:D:130:LYS:NZ	2.38	0.56
1:D:467:LYS:HZ1	1:D:471:LEU:HB2	1.69	0.56
1:D:495:ASN:O	1:D:553:ARG:NH2	2.38	0.56
1:D:985:VAL:HB	1:D:1043:VAL:HG21	1.85	0.56
1:D:1229:ASN:H	1:D:1827:ARG:NH2	2.02	0.56
1:D:1543:GLU:O	1:D:1546:THR:OG1	2.19	0.56
1:D:2293:GLN:HA	1:D:2296:GLU:HG2	1.87	0.56
1:D:2449:GLU:O	1:D:2453:ILE:HG12	2.06	0.56
1:D:3180:ASN:H	1:D:3183:VAL:HB	1.69	0.56
1:D:3811:GLU:HG2	1:D:3815:LYS:HE2	1.86	0.56
1:D:5029:ARG:O	1:D:5033:GLU:N	2.38	0.56
1:C:111:HIS:NE2	1:C:113:HIS:HB3	2.20	0.56
1:C:213:TYR:N	1:C:341:TYR:H	2.02	0.56
1:C:234:SER:O	1:C:242:ARG:NE	2.34	0.56
1:C:467:LYS:HZ1	1:C:471:LEU:HB2	1.70	0.56
1:C:1869:GLU:N	1:C:1869:GLU:OE2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2027:ILE:HA	1:C:2030:ASP:OD1	2.04	0.56
1:C:3106:MET:N	1:C:3106:MET:SD	2.78	0.56
1:C:4929:LEU:HD23	1:C:4932:ILE:HD11	1.87	0.56
1:C:5001:THR:OG1	1:C:5002:GLU:OE2	2.24	0.56
1:C:5029:ARG:O	1:C:5033:GLU:N	2.38	0.56
1:A:128:THR:O	1:A:130:LYS:NZ	2.38	0.56
1:A:379:HIS:HB3	1:A:382:GLY:HA2	1.86	0.56
1:A:394:GLN:HE22	1:A:396:GLU:H	1.51	0.56
2:F:56:ILE:HD12	2:F:56:ILE:H	1.70	0.56
2:F:87:HIS:CE1	2:F:90:ILE:HD13	2.40	0.56
1:B:115:ARG:HH11	1:B:395:GLN:HE22	1.53	0.56
1:B:1077:ALA:HA	1:B:1236:THR:HG22	1.87	0.56
1:B:1508:ARG:HH11	1:B:1508:ARG:HA	1.70	0.56
1:B:1762:LEU:HD12	1:B:1763:PRO:HD2	1.86	0.56
1:B:2244:ARG:HH12	1:B:3861:GLU:H	1.51	0.56
1:B:2755:ILE:HD13	1:B:2810:LYS:HA	1.86	0.56
1:B:3346:VAL:HG21	1:B:3411:LEU:HB2	1.86	0.56
1:B:4711:PHE:O	1:B:4713:SER:N	2.37	0.56
1:D:1424:PRO:HA	1:D:1427:ILE:HG22	1.86	0.56
1:C:2336:ARG:NH1	1:C:2431:ASP:OD2	2.38	0.56
1:C:3367:LYS:HE2	1:C:3371:LYS:HZ1	1.71	0.56
1:C:3969:ILE:HD11	1:C:3977:GLN:HG2	1.86	0.56
1:C:4563:ARG:NH2	1:C:4815:ASP:OD2	2.39	0.56
1:A:2293:GLN:HA	1:A:2296:GLU:HG2	1.87	0.56
1:A:3573:MET:O	1:A:3577:ARG:HG2	2.06	0.56
1:B:128:THR:O	1:B:130:LYS:NZ	2.38	0.56
1:B:188:GLU:OE1	1:B:190:GLN:NE2	2.39	0.56
1:B:2027:ILE:HA	1:B:2030:ASP:OD1	2.04	0.56
1:B:2199:ARG:NE	1:B:2246:ASN:OD1	2.39	0.56
1:B:3327:LEU:HB2	1:B:3364:ARG:HH21	1.69	0.56
1:B:4563:ARG:NH2	1:B:4815:ASP:OD2	2.39	0.56
1:D:379:HIS:HB3	1:D:382:GLY:HA2	1.86	0.56
1:D:439:GLU:OE2	1:D:439:GLU:N	2.25	0.56
1:D:915:GLU:OE1	1:D:915:GLU:N	2.36	0.56
1:D:985:VAL:HG21	1:D:1043:VAL:HG11	1.87	0.56
1:D:1762:LEU:HD12	1:D:1763:PRO:HD2	1.86	0.56
1:D:1772:ARG:NH2	1:D:1952:GLN:OE1	2.37	0.56
1:D:2559:LEU:O	1:D:2563:THR:HG23	2.05	0.56
1:C:394:GLN:OE1	1:C:397:GLU:N	2.32	0.56
1:C:817:PRO:O	1:C:820:ARG:NH2	2.31	0.56
1:C:980:ALA:O	1:C:984:LEU:HG	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:985:VAL:HG21	1:C:1043:VAL:HG11	1.88	0.56
1:C:1077:ALA:HA	1:C:1236:THR:HG22	1.87	0.56
1:C:1762:LEU:HD12	1:C:1763:PRO:HD2	1.86	0.56
1:C:1805:GLU:OE1	1:C:1805:GLU:N	2.31	0.56
1:C:4885:PHE:O	1:C:4889:VAL:HG22	2.05	0.56
1:A:264:PRO:HA	1:A:280:LEU:HD23	1.88	0.56
1:A:495:ASN:O	1:A:553:ARG:NH2	2.38	0.56
1:A:915:GLU:OE1	1:A:915:GLU:N	2.36	0.56
1:A:1424:PRO:HA	1:A:1427:ILE:HG22	1.86	0.56
1:A:2598:ALA:O	1:A:2602:VAL:HG23	2.05	0.56
1:A:3430:ASN:O	1:A:3434:LEU:HG	2.05	0.56
2:G:40:ARG:HD3	1:C:674:PHE:CD2	2.41	0.56
1:B:111:HIS:NE2	1:B:113:HIS:HB3	2.20	0.56
1:B:1252:HIS:HE1	1:B:1255:TYR:HD2	1.54	0.56
1:B:2314:LEU:HD11	1:B:2320:ASP:HB2	1.88	0.56
1:B:2481:LYS:NZ	1:B:2484:ALA:O	2.39	0.56
1:B:3573:MET:O	1:B:3577:ARG:HG2	2.06	0.56
1:B:3788:GLY:N	1:B:3831:SER:OG	2.39	0.56
1:B:4976:GLU:O	1:B:4980:LEU:HG	2.05	0.56
1:D:111:HIS:NE2	1:D:113:HIS:HB3	2.20	0.56
1:D:259:LEU:HD11	1:D:393:CYS:HB2	1.86	0.56
1:D:639:ASN:ND2	1:D:676:THR:OG1	2.37	0.56
1:D:840:VAL:HG22	1:D:1199:VAL:HG13	1.88	0.56
1:D:3350:ARG:O	1:D:3415:TYR:OH	2.23	0.56
1:D:3357:HIS:O	1:D:3361:THR:HG23	2.04	0.56
1:D:3788:GLY:N	1:D:3831:SER:OG	2.39	0.56
1:D:4929:LEU:HD23	1:D:4932:ILE:HD11	1.87	0.56
1:C:3180:ASN:H	1:C:3183:VAL:HB	1.69	0.56
1:C:3346:VAL:HG21	1:C:3411:LEU:HB2	1.86	0.56
1:C:3367:LYS:O	1:C:3371:LYS:HG3	2.05	0.56
1:C:4963:ILE:HD13	1:C:5030:LYS:HZ1	1.71	0.56
1:A:1077:ALA:HA	1:A:1236:THR:HG22	1.87	0.56
1:A:1575:LEU:O	1:A:1579:MET:HG3	2.04	0.56
1:A:2424:SER:HA	1:A:2498:HIS:NE2	2.21	0.56
2:E:42:ARG:HB3	2:E:44:LYS:NZ	2.20	0.56
1:B:213:TYR:CD1	1:B:337:PRO:HB2	2.40	0.56
1:B:840:VAL:HG22	1:B:1199:VAL:HG13	1.88	0.56
1:B:3103:ILE:HD13	1:B:3168:THR:HG23	1.87	0.56
1:D:181:HIS:HA	1:D:198:THR:HB	1.87	0.56
1:D:188:GLU:OE1	1:D:190:GLN:NE2	2.39	0.56
1:D:264:PRO:HA	1:D:280:LEU:HD23	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1979:LEU:O	1:D:1983:ALA:N	2.34	0.56
1:D:2336:ARG:NH1	1:D:2431:ASP:OD2	2.38	0.56
1:D:2481:LYS:NZ	1:D:2484:ALA:O	2.39	0.56
1:D:2520:HIS:CE1	1:D:2521:VAL:HG23	2.41	0.56
1:D:3403:ARG:NH2	1:D:3404:ASP:OD1	2.39	0.56
1:D:5001:THR:OG1	1:D:5002:GLU:OE2	2.24	0.56
1:C:1753:LYS:HE3	1:C:1758:ARG:HA	1.88	0.56
1:C:2230:THR:OG1	1:C:2268[B]:GLN:NE2	2.38	0.56
1:C:2559:LEU:HD21	1:C:2603:ILE:HG23	1.88	0.56
1:A:262:LEU:HD11	1:A:280:LEU:HB3	1.88	0.56
1:A:1508:ARG:HH11	1:A:1508:ARG:HA	1.70	0.56
1:A:1869:GLU:N	1:A:1869:GLU:OE2	2.38	0.56
1:A:2299:VAL:HG11	1:A:2356:LEU:HB3	1.88	0.56
1:A:2479:LEU:HA	1:A:2485:LEU:HA	1.87	0.56
1:A:2559:LEU:O	1:A:2563:THR:HG23	2.05	0.56
1:A:2981:VAL:HG22	1:A:2985:ARG:HH22	1.71	0.56
1:A:3432:GLU:HB3	1:A:3436:ARG:NH1	2.21	0.56
2:H:54:GLU:O	1:D:1785:ALA:N	2.30	0.56
2:F:42:ARG:NH2	1:B:1691:GLN:OE1	2.38	0.56
1:B:3187:ARG:NH2	1:B:3263:TYR:OH	2.38	0.56
1:B:3432:GLU:HB3	1:B:3436:ARG:HH12	1.70	0.56
1:B:3768:SER:HA	1:B:3771:HIS:NE2	2.20	0.56
1:B:3777:GLU:N	1:B:3777:GLU:OE1	2.35	0.56
1:B:3888:LEU:HA	1:B:3891:LEU:HD12	1.87	0.56
1:B:3981:ALA:HA	1:B:3986:TRP:CZ2	2.36	0.56
1:D:2299:VAL:HG11	1:D:2356:LEU:HB3	1.88	0.56
1:D:2580:ASP:OD2	1:D:2621:HIS:HB2	2.06	0.56
1:D:2825:LYS:NZ	1:D:2930:LEU:O	2.39	0.56
1:D:3860:ASN:HB3	1:D:3865:VAL:HB	1.88	0.56
1:C:128:THR:O	1:C:130:LYS:NZ	2.38	0.56
1:C:2317:GLY:HA3	1:C:2395:PRO:HB3	1.88	0.56
1:C:3140:LEU:HA	1:C:3143:LEU:HD12	1.86	0.56
1:A:290:TYR:N	1:A:302:VAL:O	2.39	0.56
1:B:181:HIS:HA	1:B:198:THR:HB	1.87	0.56
1:B:670:GLU:HA	1:B:740:PRO:HG3	1.86	0.56
1:B:2449:GLU:O	1:B:2453:ILE:HG12	2.06	0.56
1:B:2520:HIS:CE1	1:B:2521:VAL:HG23	2.41	0.56
1:B:3142:THR:HA	1:B:3145:GLN:OE1	2.05	0.56
1:B:3324:VAL:HA	1:B:3327:LEU:HG	1.88	0.56
1:D:2559:LEU:HD21	1:D:2603:ILE:HG23	1.88	0.56
1:D:3367:LYS:O	1:D:3371:LYS:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3573:MET:O	1:D:3577:ARG:HG2	2.06	0.56
1:D:4885:PHE:O	1:D:4889:VAL:HG22	2.05	0.56
1:C:262:LEU:HD11	1:C:280:LEU:HB3	1.88	0.56
1:C:2293:GLN:HA	1:C:2296:GLU:HG2	1.87	0.56
1:C:3180:ASN:O	1:C:3184:GLU:HG2	2.06	0.56
1:C:3324:VAL:HA	1:C:3327:LEU:HG	1.88	0.56
1:A:317:ARG:HH12	1:A:322:LYS:HG2	1.71	0.56
1:A:2481:LYS:NZ	1:A:2484:ALA:O	2.39	0.56
1:A:4037:ASN:O	1:A:4042:ARG:NH2	2.39	0.56
1:A:4875:LYS:O	1:A:4881:THR:HB	2.06	0.56
1:B:2212:VAL:HG11	1:B:2256:TYR:HE2	1.71	0.56
1:B:2293:GLN:HA	1:B:2296:GLU:HG2	1.87	0.56
1:B:2956:ALA:O	1:B:2960:LEU:HG	2.06	0.56
1:B:3140:LEU:HA	1:B:3143:LEU:HD12	1.86	0.56
1:B:3611:HIS:ND1	1:B:3611:HIS:O	2.38	0.56
1:D:2230:THR:OG1	1:D:2268[B]:GLN:NE2	2.38	0.56
1:D:2317:GLY:HA3	1:D:2395:PRO:HB3	1.88	0.56
1:D:2527:LEU:HD22	1:D:2578:MET:HE1	1.88	0.56
1:D:3333:THR:O	1:D:3336:LYS:HG2	2.06	0.56
1:D:3432:GLU:HB3	1:D:3436:ARG:NH1	2.21	0.56
1:D:3590:GLU:H	1:D:3590:GLU:CD	2.09	0.56
1:C:188:GLU:OE1	1:C:190:GLN:NE2	2.39	0.56
1:C:490:CYS:O	1:C:494:LEU:HD12	2.05	0.56
1:A:1147:ASP:HB3	1:A:1164:LEU:HD11	1.88	0.55
1:A:3350:ARG:O	1:A:3415:TYR:OH	2.23	0.55
1:A:5001:THR:OG1	1:A:5002:GLU:OE2	2.24	0.55
1:B:261:ARG:NH2	1:B:262:LEU:O	2.28	0.55
1:B:264:PRO:HA	1:B:280:LEU:HD23	1.88	0.55
1:B:639:ASN:ND2	1:B:676:THR:OG1	2.37	0.55
1:B:3146:HIS:CD2	1:B:3147:ILE:HD12	2.37	0.55
1:B:3180:ASN:O	1:B:3184:GLU:HG2	2.06	0.55
1:B:3432:GLU:HB3	1:B:3436:ARG:NH1	2.21	0.55
1:B:3946:GLN:OE1	1:B:3946:GLN:HA	2.06	0.55
1:B:4006:ASP:OD1	1:B:4007:SER:N	2.40	0.55
1:D:2199:ARG:NE	1:D:2246:ASN:OD1	2.39	0.55
1:D:2424:SER:HA	1:D:2498:HIS:NE2	2.21	0.55
1:D:3430:ASN:O	1:D:3434:LEU:HG	2.06	0.55
1:D:4006:ASP:OD1	1:D:4007:SER:N	2.40	0.55
1:D:4563:ARG:NH2	1:D:4815:ASP:OD2	2.39	0.55
1:C:181:HIS:HA	1:C:198:THR:HB	1.87	0.55
1:C:1443:GLN:OE1	1:C:1557:THR:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2314:LEU:HD11	1:C:2320:ASP:HB2	1.88	0.55
1:C:3150:HIS:HB3	1:C:3152:PHE:CE1	2.42	0.55
1:C:3430:ASN:O	1:C:3434:LEU:HG	2.05	0.55
1:C:4875:LYS:O	1:C:4881:THR:HB	2.06	0.55
1:A:2199:ARG:NE	1:A:2246:ASN:OD1	2.39	0.55
1:A:2358:ILE:HG13	1:A:2359:ARG:HH21	1.70	0.55
1:A:2580:ASP:OD2	1:A:2621:HIS:HB2	2.06	0.55
1:A:3333:THR:O	1:A:3336:LYS:HG2	2.06	0.55
1:A:3433:GLU:OE2	1:A:3436:ARG:NE	2.36	0.55
1:A:4006:ASP:OD1	1:A:4007:SER:N	2.40	0.55
1:B:1869:GLU:N	1:B:1869:GLU:OE2	2.38	0.55
1:B:1947:CYS:HB2	1:B:2126:ARG:HH12	1.71	0.55
1:B:1979:LEU:O	1:B:1983:ALA:N	2.34	0.55
1:B:2424:SER:HA	1:B:2498:HIS:NE2	2.21	0.55
1:B:3403:ARG:NH2	1:B:3404:ASP:OD1	2.39	0.55
1:D:2956:ALA:O	1:D:2960:LEU:HG	2.06	0.55
1:D:3432:GLU:HB3	1:D:3436:ARG:HH12	1.70	0.55
1:C:1124:PHE:HB3	1:C:1162:PHE:CE2	2.41	0.55
1:C:2299:VAL:HG11	1:C:2356:LEU:HB3	1.88	0.55
1:C:2449:GLU:O	1:C:2453:ILE:HG12	2.06	0.55
1:C:3103:ILE:HD13	1:C:3168:THR:HG23	1.87	0.55
1:C:3146:HIS:CD2	1:C:3147:ILE:HD12	2.37	0.55
1:C:3432:GLU:HB3	1:C:3436:ARG:HH12	1.70	0.55
1:C:3888:LEU:HA	1:C:3891:LEU:HD12	1.87	0.55
1:A:139:GLU:OE1	1:A:139:GLU:N	2.40	0.55
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.07	0.55
1:A:3432:GLU:HB3	1:A:3436:ARG:HH12	1.70	0.55
1:A:3590:GLU:CD	1:A:3590:GLU:H	2.09	0.55
1:A:3860:ASN:HB3	1:A:3865:VAL:HB	1.88	0.55
1:B:985:VAL:HG21	1:B:1043:VAL:HG11	1.88	0.55
1:B:1147:ASP:HB3	1:B:1164:LEU:HD11	1.88	0.55
1:B:2186:MET:N	1:B:2186:MET:SD	2.79	0.55
1:B:2580:ASP:OD2	1:B:2621:HIS:HB2	2.06	0.55
1:D:288:GLY:HA3	1:D:405:HIS:CE1	2.42	0.55
1:D:2358:ILE:HG13	1:D:2359:ARG:HH21	1.70	0.55
1:C:2138:LEU:HD13	1:C:3658:LYS:HB2	1.89	0.55
1:C:2186:MET:N	1:C:2186:MET:SD	2.79	0.55
1:C:2212:VAL:HG11	1:C:2256:TYR:HE2	1.71	0.55
1:C:2580:ASP:OD2	1:C:2621:HIS:HB2	2.06	0.55
1:C:2825:LYS:NZ	1:C:2930:LEU:O	2.39	0.55
1:C:3043:PHE:HA	1:C:3071:LEU:HD13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1753:LYS:HE3	1:A:1758:ARG:HA	1.88	0.55
1:A:2786:LYS:HD2	1:A:2786:LYS:O	2.07	0.55
1:A:2891:LYS:O	1:A:2895:GLU:HG2	2.07	0.55
1:B:2123:LEU:O	1:B:2127:GLN:HG2	2.07	0.55
1:B:2317:GLY:HA3	1:B:2395:PRO:HB3	1.88	0.55
1:B:2825:LYS:NZ	1:B:2930:LEU:O	2.39	0.55
1:D:262:LEU:HD11	1:D:280:LEU:HB3	1.88	0.55
1:D:1115:LEU:H	1:D:1115:LEU:HD12	1.72	0.55
1:D:1147:ASP:HB3	1:D:1164:LEU:HD11	1.88	0.55
1:D:3043:PHE:HA	1:D:3071:LEU:HD13	1.89	0.55
1:D:3103:ILE:HD13	1:D:3168:THR:HG23	1.87	0.55
1:D:4156:HIS:HA	1:D:4161:ARG:NH2	2.22	0.55
1:C:1252:HIS:HE1	1:C:1255:TYR:HD2	1.53	0.55
1:C:2358:ILE:HG13	1:C:2359:ARG:HH21	1.70	0.55
1:C:2956:ALA:O	1:C:2960:LEU:HG	2.06	0.55
1:A:1813:ARG:O	1:A:1817:GLU:HG3	2.07	0.55
1:A:2314:LEU:HD11	1:A:2320:ASP:HB2	1.88	0.55
1:A:2588:ARG:HB2	1:A:2625:ARG:HH22	1.72	0.55
2:G:25:HIS:HB2	2:G:104:LEU:HD21	1.89	0.55
2:G:105:LYS:HZ3	2:G:106:LEU:H	1.54	0.55
1:B:139:GLU:OE1	1:B:139:GLU:N	2.40	0.55
1:B:262:LEU:HD11	1:B:280:LEU:HB3	1.88	0.55
1:B:1124:PHE:HB3	1:B:1162:PHE:CE2	2.41	0.55
1:B:2588:ARG:HB2	1:B:2625:ARG:HH22	1.72	0.55
1:B:3043:PHE:HA	1:B:3071:LEU:HD13	1.89	0.55
1:B:3257:ALA:HB1	1:B:3321:ARG:HB3	1.89	0.55
1:D:799:GLU:N	1:D:799:GLU:OE2	2.40	0.55
1:D:1124:PHE:HB3	1:D:1162:PHE:CE2	2.41	0.55
1:D:2786:LYS:HD2	1:D:2786:LYS:O	2.07	0.55
1:D:3336:LYS:HZ3	1:D:3403:ARG:HG3	1.70	0.55
1:D:4875:LYS:O	1:D:4881:THR:HB	2.06	0.55
1:C:639:ASN:ND2	1:C:676:THR:OG1	2.37	0.55
1:C:840:VAL:HG22	1:C:1199:VAL:HG13	1.88	0.55
1:C:1147:ASP:HB3	1:C:1164:LEU:HD11	1.89	0.55
1:C:1246:GLU:O	1:C:1599:MET:N	2.30	0.55
1:C:1839:VAL:HG13	1:C:1843:LYS:HE3	1.89	0.55
1:A:2956:ALA:O	1:A:2960:LEU:HG	2.06	0.55
1:A:3180:ASN:O	1:A:3184:GLU:HG2	2.06	0.55
1:A:4069:LYS:HD2	1:A:4129:ALA:HB1	1.89	0.55
1:B:2138:LEU:HD13	1:B:3658:LYS:HB2	1.89	0.55
1:B:2798:SER:OG	1:B:2801:ASP:OD2	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3354:LEU:HA	1:B:3358:PHE:HB2	1.89	0.55
1:B:4069:LYS:HD2	1:B:4129:ALA:HB1	1.89	0.55
1:D:290:TYR:N	1:D:302:VAL:O	2.39	0.55
1:D:670:GLU:HA	1:D:740:PRO:HG3	1.86	0.55
1:D:1813:ARG:O	1:D:1817:GLU:HG3	2.07	0.55
1:D:2123:LEU:O	1:D:2127:GLN:HG2	2.07	0.55
1:D:2891:LYS:O	1:D:2895:GLU:HG2	2.07	0.55
1:C:264:PRO:HA	1:C:280:LEU:HD23	1.87	0.55
1:C:497:TYR:HA	1:C:502:HIS:CE1	2.42	0.55
1:C:2481:LYS:NZ	1:C:2484:ALA:O	2.39	0.55
1:C:2707:ALA:HB1	1:C:3009:TYR:HD2	1.72	0.55
1:C:3611:HIS:O	1:C:3611:HIS:ND1	2.37	0.55
1:C:3647:HIS:CE1	1:C:3648:ARG:HG3	2.42	0.55
1:A:188:GLU:OE1	1:A:190:GLN:NE2	2.39	0.55
1:A:288:GLY:HA3	1:A:405:HIS:CE1	2.42	0.55
1:A:1252:HIS:HE1	1:A:1255:TYR:HD2	1.53	0.55
1:A:2138:LEU:HD13	1:A:3658:LYS:HB2	1.89	0.55
1:A:2825:LYS:NZ	1:A:2930:LEU:O	2.39	0.55
1:A:3257:ALA:HB1	1:A:3321:ARG:HB3	1.89	0.55
1:A:4156:HIS:HA	1:A:4161:ARG:NH2	2.22	0.55
1:A:4976:GLU:O	1:A:4980:LEU:HG	2.05	0.55
2:H:22:CYS:HA	2:H:106:LEU:HA	1.89	0.55
2:H:88:PRO:CA	1:D:623:GLU:OE1	2.54	0.55
2:G:7:ILE:HB	2:G:71:ARG:HG2	1.88	0.55
1:B:317:ARG:HH12	1:B:322:LYS:HG2	1.71	0.55
1:B:1753:LYS:HE3	1:B:1758:ARG:HA	1.88	0.55
1:B:2107:GLN:HE22	1:B:3680:ALA:HA	1.72	0.55
1:B:2981:VAL:HG22	1:B:2985:ARG:HH22	1.71	0.55
1:B:3333:THR:O	1:B:3336:LYS:HG2	2.06	0.55
1:B:4654:ALA:O	1:B:4658:ILE:HG12	2.07	0.55
1:D:2107:GLN:HE22	1:D:3680:ALA:HA	1.72	0.55
1:D:3150:HIS:HB3	1:D:3152:PHE:CE1	2.42	0.55
1:D:4069:LYS:HD2	1:D:4129:ALA:HB1	1.89	0.55
1:C:799:GLU:N	1:C:799:GLU:OE2	2.40	0.55
1:C:1115:LEU:H	1:C:1115:LEU:HD12	1.72	0.55
1:C:2199:ARG:NE	1:C:2246:ASN:OD1	2.39	0.55
1:C:2424:SER:HA	1:C:2498:HIS:NE2	2.21	0.55
1:A:1938:GLN:HA	1:A:1941:ASN:ND2	2.22	0.55
1:A:1947:CYS:HB2	1:A:2126:ARG:HH12	1.71	0.55
1:A:2186:MET:SD	1:A:2186:MET:N	2.79	0.55
1:A:3043:PHE:HA	1:A:3071:LEU:HD13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3874:VAL:HG13	1:A:3875:MET:HE2	1.87	0.55
1:A:4735:GLU:OE1	1:A:4735:GLU:N	2.39	0.55
1:A:4885:PHE:O	1:A:4889:VAL:HG22	2.05	0.55
1:B:799:GLU:N	1:B:799:GLU:OE2	2.40	0.55
1:B:2308:GLN:OE1	1:B:2308:GLN:N	2.40	0.55
1:B:3433:GLU:OE2	1:B:3436:ARG:NE	2.36	0.55
1:B:3590:GLU:H	1:B:3590:GLU:CD	2.09	0.55
1:B:4875:LYS:O	1:B:4881:THR:HB	2.06	0.55
1:D:2996:LYS:HE3	1:D:3000:LYS:HD3	1.89	0.55
1:D:3450:ASN:HA	1:D:3453:ARG:NE	2.22	0.55
1:D:3888:LEU:HA	1:D:3891:LEU:HD12	1.87	0.55
1:C:317:ARG:HH12	1:C:322:LYS:HG2	1.71	0.55
1:C:2520:HIS:CE1	1:C:2521:VAL:HG23	2.41	0.55
1:C:2891:LYS:O	1:C:2895:GLU:HG2	2.07	0.55
1:C:3294:PRO:HB2	1:C:3297:PRO:HD2	1.88	0.55
1:C:3403:ARG:NH2	1:C:3404:ASP:OD1	2.39	0.55
1:C:3788:GLY:N	1:C:3831:SER:OG	2.39	0.55
1:C:4069:LYS:HD2	1:C:4129:ALA:HB1	1.89	0.55
1:A:303:ASP:OD2	1:A:305:CYS:N	2.36	0.55
1:A:1125:ASN:ND2	1:A:1128:ARG:HD2	2.22	0.55
1:A:1778:SER:HB3	1:A:1798:LEU:HB2	1.89	0.55
1:A:2193:GLN:HG3	1:A:2194:HIS:ND1	2.22	0.55
1:A:3103:ILE:HD13	1:A:3168:THR:HG23	1.87	0.55
1:A:3150:HIS:HB3	1:A:3152:PHE:CE1	2.42	0.55
1:A:3888:LEU:HA	1:A:3891:LEU:HD12	1.87	0.55
2:F:59:TRP:CE3	1:B:1783:VAL:HG11	2.42	0.55
1:B:881:LEU:HD12	1:B:1041:GLN:HE21	1.72	0.55
1:B:1778:SER:HB3	1:B:1798:LEU:HB2	1.89	0.55
1:B:2299:VAL:HG11	1:B:2356:LEU:HB3	1.88	0.55
1:B:3150:HIS:HB3	1:B:3152:PHE:CE1	2.42	0.55
1:B:3579:LEU:HD22	1:B:3582:ARG:HG2	1.89	0.55
1:B:4037:ASN:O	1:B:4042:ARG:NH2	2.39	0.55
1:B:4746:ALA:O	1:B:4750:ILE:HG12	2.07	0.55
1:D:989:ALA:HA	1:D:1039:LEU:HD23	1.89	0.55
1:D:1938:GLN:HA	1:D:1941:ASN:ND2	2.22	0.55
1:D:2308:GLN:OE1	1:D:2308:GLN:N	2.40	0.55
1:D:2314:LEU:HD11	1:D:2320:ASP:HB2	1.88	0.55
1:D:3257:ALA:HB1	1:D:3321:ARG:HB3	1.89	0.55
1:D:3946:GLN:OE1	1:D:3946:GLN:HA	2.06	0.55
1:C:2969:ILE:O	1:C:2972:GLU:HG3	2.07	0.55
1:C:3354:LEU:HA	1:C:3358:PHE:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3590:GLU:H	1:C:3590:GLU:CD	2.09	0.55
1:C:4654:ALA:O	1:C:4658:ILE:HG12	2.07	0.55
1:A:68:THR:O	1:A:110:ARG:N	2.34	0.55
1:A:181:HIS:HA	1:A:198:THR:HB	1.87	0.55
1:A:799:GLU:N	1:A:799:GLU:OE2	2.40	0.55
1:A:1124:PHE:HB3	1:A:1162:PHE:CE2	2.41	0.55
1:A:2107:GLN:HE22	1:A:3680:ALA:HA	1.72	0.55
1:A:2520:HIS:CE1	1:A:2521:VAL:HG23	2.41	0.55
1:A:2559:LEU:HD21	1:A:2603:ILE:HG23	1.87	0.55
2:E:15:PHE:H	2:E:17:LYS:HZ3	1.55	0.55
1:B:3336:LYS:HZ3	1:B:3403:ARG:HG3	1.71	0.55
1:B:3647:HIS:CE1	1:B:3648:ARG:HG3	2.42	0.55
1:B:3775:ALA:O	1:B:3778:MET:HG2	2.07	0.55
1:D:28:VAL:N	1:D:31:GLU:O	2.31	0.55
1:D:303:ASP:OD2	1:D:305:CYS:N	2.36	0.55
1:D:1855:GLY:O	1:D:1859:VAL:HG23	2.07	0.55
1:D:2138:LEU:HD13	1:D:3658:LYS:HB2	1.89	0.55
1:D:2186:MET:N	1:D:2186:MET:SD	2.79	0.55
1:D:2627:VAL:HG22	1:D:2678:LEU:HD11	1.89	0.55
1:D:2969:ILE:O	1:D:2972:GLU:HG3	2.07	0.55
1:D:3324:VAL:HA	1:D:3327:LEU:HG	1.88	0.55
1:D:3895:HIS:HB3	1:D:3971:GLY:HA2	1.89	0.55
1:D:4037:ASN:O	1:D:4042:ARG:NH2	2.39	0.55
1:C:1125:ASN:ND2	1:C:1128:ARG:HD2	2.22	0.55
1:C:1778:SER:HB3	1:C:1798:LEU:HB2	1.89	0.55
1:C:1855:GLY:O	1:C:1859:VAL:HG23	2.07	0.55
1:C:2577:ILE:HD12	1:C:2578:MET:N	2.20	0.55
1:C:2588:ARG:HB2	1:C:2625:ARG:HH22	1.72	0.55
1:C:3257:ALA:HB1	1:C:3321:ARG:HB3	1.89	0.55
1:C:3333:THR:O	1:C:3336:LYS:HG2	2.06	0.55
1:C:3579:LEU:HD22	1:C:3582:ARG:HG2	1.89	0.55
1:A:1228:ILE:HG22	1:A:1827:ARG:HH12	1.72	0.54
1:A:2578:MET:CE	1:A:2582:MET:HG3	2.37	0.54
1:A:2969:ILE:O	1:A:2972:GLU:HG3	2.07	0.54
1:A:3039:ILE:HB	1:A:3075:LEU:HD21	1.89	0.54
1:A:3647:HIS:CE1	1:A:3648:ARG:HG3	2.42	0.54
1:B:989:ALA:HA	1:B:1039:LEU:HD23	1.89	0.54
1:B:1115:LEU:H	1:B:1115:LEU:HD12	1.72	0.54
1:B:1228:ILE:HG22	1:B:1827:ARG:HH12	1.72	0.54
1:B:1839:VAL:HG13	1:B:1843:LYS:HE3	1.89	0.54
1:B:2293:GLN:OE1	1:B:2293:GLN:N	2.24	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2559:LEU:HD21	1:B:2603:ILE:HG23	1.87	0.54
1:B:3039:ILE:HB	1:B:3075:LEU:HD21	1.88	0.54
1:D:1753:LYS:HE3	1:D:1758:ARG:HA	1.88	0.54
1:D:2970:SER:HA	1:D:2973:PHE:HE2	1.71	0.54
1:D:2981:VAL:HG22	1:D:2985:ARG:HH22	1.71	0.54
1:D:3039:ILE:HB	1:D:3075:LEU:HD21	1.88	0.54
1:D:3647:HIS:CE1	1:D:3648:ARG:HG3	2.42	0.54
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.07	0.54
1:C:4963:ILE:HD13	1:C:5030:LYS:NZ	2.23	0.54
1:A:308:HIS:HD2	1:A:311:ALA:H	1.55	0.54
1:A:1115:LEU:HD12	1:A:1115:LEU:H	1.72	0.54
1:A:2005:GLN:HA	1:A:2008:MET:SD	2.47	0.54
1:A:2996:LYS:HE3	1:A:3000:LYS:HD3	1.89	0.54
1:A:3036:LYS:HA	1:A:3039:ILE:HD12	1.89	0.54
1:A:3324:VAL:HA	1:A:3327:LEU:HG	1.88	0.54
1:A:3825:GLU:OE1	1:A:3828:PHE:N	2.41	0.54
2:G:13:ARG:HG3	2:G:14:THR:HG23	1.88	0.54
1:B:1543:GLU:O	1:B:1546:THR:OG1	2.19	0.54
1:B:2005:GLN:HA	1:B:2008:MET:SD	2.47	0.54
1:B:2435:ARG:O	1:B:2508:ARG:NH2	2.41	0.54
1:B:4738:ALA:HA	1:B:4743:MET:SD	2.48	0.54
1:D:234:SER:O	1:D:242:ARG:NE	2.34	0.54
1:D:497:TYR:HA	1:D:502:HIS:CE1	2.42	0.54
1:D:1228:ILE:HG22	1:D:1827:ARG:HH12	1.72	0.54
1:D:2588:ARG:HB2	1:D:2625:ARG:HH22	1.72	0.54
1:D:4024:VAL:HG11	1:D:4142:ASN:HB3	1.89	0.54
1:D:4951:LYS:O	1:D:4955:GLU:HG2	2.08	0.54
1:C:881:LEU:HD12	1:C:1041:GLN:HE21	1.72	0.54
1:C:1938:GLN:HA	1:C:1941:ASN:ND2	2.22	0.54
1:C:2435:ARG:O	1:C:2508:ARG:NH2	2.41	0.54
1:C:3432:GLU:HB3	1:C:3436:ARG:NH1	2.21	0.54
1:C:3860:ASN:HB3	1:C:3865:VAL:HB	1.88	0.54
1:C:4727:LYS:HG2	1:C:4728:HIS:CE1	2.43	0.54
1:A:195:PHE:CG	1:D:2358:ILE:HB	2.43	0.54
1:A:497:TYR:HA	1:A:502:HIS:CE1	2.42	0.54
1:A:1025:ARG:HD3	1:A:1025:ARG:H	1.73	0.54
1:A:1855:GLY:O	1:A:1859:VAL:HG23	2.07	0.54
1:A:2627:VAL:HG22	1:A:2678:LEU:HD11	1.89	0.54
1:A:3294:PRO:HB2	1:A:3297:PRO:HD2	1.88	0.54
1:A:4204:GLN:HB3	1:A:4245:MET:HG3	1.90	0.54
2:F:34:LYS:NZ	1:B:628:GLY:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2182:ILE:HA	1:B:2185:ILE:HD12	1.90	0.54
1:B:3450:ASN:HA	1:B:3453:ARG:NE	2.22	0.54
1:B:4727:LYS:HG2	1:B:4728:HIS:CE1	2.43	0.54
1:D:56:GLN:HA	1:D:309:THR:HG21	1.90	0.54
1:D:68:THR:O	1:D:110:ARG:N	2.34	0.54
1:D:394:GLN:OE1	1:D:397:GLU:N	2.32	0.54
1:D:1252:HIS:HE1	1:D:1255:TYR:HD2	1.53	0.54
1:D:3036:LYS:HA	1:D:3039:ILE:HD12	1.89	0.54
1:D:3246:LEU:HA	1:D:3249:LEU:HD12	1.90	0.54
1:D:3579:LEU:HD22	1:D:3582:ARG:HG2	1.89	0.54
1:D:4204:GLN:HB3	1:D:4245:MET:HG3	1.90	0.54
1:D:4727:LYS:HG2	1:D:4728:HIS:CE1	2.43	0.54
1:D:4746:ALA:O	1:D:4750:ILE:HG12	2.07	0.54
1:D:4877:ASP:HA	1:C:4582:VAL:CG2	2.36	0.54
1:C:989:ALA:HA	1:C:1039:LEU:HD23	1.89	0.54
1:C:1690:ASP:OD2	1:C:1693:GLN:N	2.40	0.54
1:C:2527:LEU:HD22	1:C:2578:MET:HE1	1.87	0.54
1:C:3698:LEU:O	1:C:3702:VAL:HG23	2.08	0.54
1:C:4006:ASP:OD1	1:C:4007:SER:N	2.40	0.54
1:C:4746:ALA:O	1:C:4750:ILE:HG12	2.07	0.54
1:A:3403:ARG:NH2	1:A:3404:ASP:OD1	2.39	0.54
1:A:3895:HIS:HB3	1:A:3971:GLY:HA2	1.89	0.54
1:A:4074:SER:O	1:A:4078:GLN:HG2	2.08	0.54
1:A:4241:THR:O	1:A:4245:MET:HE2	2.08	0.54
2:F:40:ARG:CZ	1:B:674:PHE:CD2	2.59	0.54
2:F:105:LYS:HZ3	2:F:106:LEU:H	1.54	0.54
1:B:199:LEU:HD12	1:B:200:TRP:N	2.23	0.54
1:B:1025:ARG:H	1:B:1025:ARG:HD3	1.73	0.54
1:B:1690:ASP:OD2	1:B:1693:GLN:N	2.40	0.54
1:B:2090:LYS:HZ2	1:B:2092:GLN:HG2	1.73	0.54
1:B:2301:TYR:HB3	1:B:2331:TYR:CZ	2.43	0.54
1:B:2707:ALA:HB1	1:B:3009:TYR:HD2	1.72	0.54
1:B:2786:LYS:HD2	1:B:2786:LYS:O	2.07	0.54
1:B:3242:ASP:OD1	1:B:3242:ASP:N	2.33	0.54
1:B:3698:LEU:O	1:B:3702:VAL:HG23	2.08	0.54
1:B:4951:LYS:O	1:B:4955:GLU:HG2	2.08	0.54
1:D:593:HIS:HA	1:D:1593:PRO:HG2	1.89	0.54
1:D:2578:MET:CE	1:D:2582:MET:HG3	2.37	0.54
1:D:2707:ALA:HB1	1:D:3009:TYR:HD2	1.72	0.54
1:D:4156:HIS:HA	1:D:4161:ARG:HH21	1.73	0.54
1:D:4241:THR:O	1:D:4245:MET:HE2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:278:GLN:HA	1:C:328:LYS:HZ3	1.72	0.54
1:C:593:HIS:HA	1:C:1593:PRO:HG2	1.89	0.54
1:C:2621:HIS:HA	1:C:2624:ARG:HE	1.73	0.54
1:C:2786:LYS:O	1:C:2786:LYS:HD2	2.07	0.54
1:C:2981:VAL:HG22	1:C:2985:ARG:HH22	1.71	0.54
1:C:3036:LYS:HA	1:C:3039:ILE:HD12	1.89	0.54
1:C:4001:MET:O	1:C:4005:GLN:NE2	2.34	0.54
1:C:4156:HIS:HA	1:C:4161:ARG:HH21	1.73	0.54
1:A:2308:GLN:N	1:A:2308:GLN:OE1	2.40	0.54
1:A:2431:ASP:O	1:A:2435:ARG:HG3	2.08	0.54
1:A:3579:LEU:HD22	1:A:3582:ARG:HG2	1.89	0.54
1:A:4024:VAL:HG11	1:A:4142:ASN:HB3	1.89	0.54
1:A:5030:LYS:HA	1:A:5033:GLU:HB2	1.90	0.54
1:B:290:TYR:N	1:B:302:VAL:O	2.39	0.54
1:B:497:TYR:HA	1:B:502:HIS:CE1	2.42	0.54
1:B:1938:GLN:HA	1:B:1941:ASN:ND2	2.22	0.54
1:D:139:GLU:N	1:D:139:GLU:OE1	2.40	0.54
1:D:881:LEU:HD12	1:D:1041:GLN:HE21	1.72	0.54
1:D:2005:GLN:HA	1:D:2008:MET:SD	2.47	0.54
1:D:2193:GLN:HG3	1:D:2194:HIS:ND1	2.22	0.54
1:D:2435:ARG:O	1:D:2508:ARG:NH2	2.41	0.54
1:D:2452:ARG:HD2	1:D:2453:ILE:HD13	1.90	0.54
1:D:3180:ASN:O	1:D:3184:GLU:HG2	2.06	0.54
1:D:3272:ILE:C	1:D:3275:PRO:HD2	2.28	0.54
1:D:4963:ILE:HD13	1:D:5030:LYS:NZ	2.23	0.54
1:C:3336:LYS:HZ3	1:C:3403:ARG:HG3	1.73	0.54
1:C:4156:HIS:HA	1:C:4161:ARG:NH2	2.22	0.54
1:A:1108:GLU:OE2	1:A:1108:GLU:N	2.36	0.54
1:A:1717:SER:O	1:A:1721:GLU:HG2	2.08	0.54
1:A:1805:GLU:OE1	1:A:1805:GLU:N	2.31	0.54
1:A:2212:VAL:HG11	1:A:2256:TYR:HE2	1.71	0.54
1:A:2301:TYR:HB3	1:A:2331:TYR:CZ	2.43	0.54
1:A:3272:ILE:C	1:A:3275:PRO:HD2	2.28	0.54
1:A:3775:ALA:O	1:A:3778:MET:HG2	2.07	0.54
1:A:4156:HIS:HA	1:A:4161:ARG:HH21	1.73	0.54
1:A:4738:ALA:HA	1:A:4743:MET:SD	2.48	0.54
1:A:4902:GLU:OE2	1:A:4902:GLU:N	2.26	0.54
1:A:4951:LYS:O	1:A:4955:GLU:HG2	2.08	0.54
2:F:18:ARG:NH2	2:F:51:GLY:HA3	2.21	0.54
2:F:54:GLU:O	1:B:1785:ALA:N	2.31	0.54
1:B:1813:ARG:O	1:B:1817:GLU:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2193:GLN:HG3	1:B:2194:HIS:ND1	2.22	0.54
1:B:2431:ASP:O	1:B:2435:ARG:HG3	2.08	0.54
1:B:2466:LEU:HA	1:B:2469:ILE:HD12	1.90	0.54
1:B:2577:ILE:HD12	1:B:2578:MET:N	2.20	0.54
1:B:3036:LYS:HA	1:B:3039:ILE:HD12	1.90	0.54
1:B:4156:HIS:HA	1:B:4161:ARG:NH2	2.22	0.54
1:D:1778:SER:HB3	1:D:1798:LEU:HB2	1.89	0.54
1:D:2431:ASP:O	1:D:2435:ARG:HG3	2.08	0.54
1:D:3411:LEU:HD12	1:D:3412:LEU:N	2.23	0.54
1:C:288:GLY:HA3	1:C:405:HIS:CE1	2.42	0.54
1:C:1228:ILE:HG22	1:C:1827:ARG:HH12	1.72	0.54
1:C:1717:SER:O	1:C:1721:GLU:HG2	2.08	0.54
1:C:2308:GLN:OE1	1:C:2308:GLN:N	2.40	0.54
1:C:3895:HIS:HB3	1:C:3971:GLY:HA2	1.89	0.54
1:A:2317:GLY:HA3	1:A:2395:PRO:HB3	1.88	0.54
1:A:2822:THR:OG1	1:A:2824:GLU:OE2	2.21	0.54
1:A:3247:ASP:HA	1:A:3250:MET:HG2	1.89	0.54
1:A:3698:LEU:O	1:A:3702:VAL:HG23	2.08	0.54
1:A:4963:ILE:HD13	1:A:5030:LYS:HZ1	1.72	0.54
2:H:3:GLN:OE1	2:H:3:GLN:N	2.40	0.54
1:B:1108:GLU:OE2	1:B:1108:GLU:N	2.36	0.54
1:B:1954:ARG:NH2	1:B:2041:HIS:O	2.41	0.54
1:B:2654:TYR:HA	1:B:2661:TRP:HB2	1.90	0.54
1:B:4204:GLN:HB3	1:B:4245:MET:HG3	1.90	0.54
1:B:4735:GLU:OE1	1:B:4735:GLU:N	2.39	0.54
1:B:4963:ILE:HD13	1:B:5030:LYS:NZ	2.23	0.54
1:D:308:HIS:HD2	1:D:311:ALA:H	1.55	0.54
1:D:317:ARG:HH12	1:D:322:LYS:HG2	1.71	0.54
1:D:2177:LEU:HD12	1:D:2180:GLN:NE2	2.23	0.54
1:D:2212:VAL:HG11	1:D:2256:TYR:HE2	1.71	0.54
1:D:2318:TYR:OH	1:D:2418:LEU:N	2.41	0.54
1:D:3611:HIS:ND1	1:D:3611:HIS:O	2.38	0.54
1:D:5030:LYS:HA	1:D:5033:GLU:HB2	1.90	0.54
1:C:1979:LEU:O	1:C:1983:ALA:N	2.34	0.54
1:C:2107:GLN:HE22	1:C:3680:ALA:HA	1.72	0.54
1:C:3411:LEU:HD12	1:C:3412:LEU:N	2.23	0.54
1:C:4738:ALA:HA	1:C:4743:MET:SD	2.48	0.54
1:C:4952:GLU:O	1:C:4956:THR:OG1	2.19	0.54
1:C:5030:LYS:HA	1:C:5033:GLU:HB2	1.90	0.54
1:A:1216:ILE:HG23	1:D:3424:LEU:HD13	1.90	0.54
1:A:1954:ARG:NH2	1:A:2041:HIS:O	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3246:LEU:HA	1:A:3249:LEU:HD12	1.90	0.54
1:A:3456:GLN:O	1:A:3460:VAL:HG13	2.08	0.54
1:B:56:GLN:HA	1:B:309:THR:HG21	1.90	0.54
1:B:1272:LEU:HD22	1:B:1289:LEU:HD21	1.90	0.54
1:B:2177:LEU:HD12	1:B:2180:GLN:NE2	2.23	0.54
1:B:2318:TYR:OH	1:B:2418:LEU:N	2.41	0.54
1:B:2891:LYS:O	1:B:2895:GLU:HG2	2.07	0.54
1:B:3246:LEU:HA	1:B:3249:LEU:HD12	1.90	0.54
1:B:3272:ILE:C	1:B:3275:PRO:HD2	2.28	0.54
1:D:3354:LEU:HA	1:D:3358:PHE:HB2	1.89	0.54
1:C:2281:ILE:HG13	1:C:2282:ASP:OD1	2.08	0.54
1:C:2452:ARG:HD2	1:C:2453:ILE:HD13	1.90	0.54
1:C:2466:LEU:HA	1:C:2469:ILE:HD12	1.90	0.54
1:C:3210:LEU:HB3	1:C:3304:CYS:O	2.08	0.54
1:C:3450:ASN:HA	1:C:3453:ARG:NE	2.22	0.54
1:C:4869:GLU:OE1	1:C:4869:GLU:N	2.29	0.54
1:A:1543:GLU:O	1:A:1546:THR:OG1	2.19	0.54
1:A:2177:LEU:HD12	1:A:2180:GLN:NE2	2.23	0.54
1:A:2452:ARG:HD2	1:A:2453:ILE:HD13	1.90	0.54
1:A:3114:LYS:HE2	1:A:3116:SER:H	1.73	0.54
1:A:3210:LEU:HB3	1:A:3304:CYS:O	2.08	0.54
1:A:3450:ASN:HA	1:A:3453:ARG:NE	2.22	0.54
1:A:3943:ILE:O	1:A:3948:LYS:NZ	2.41	0.54
1:A:3946:GLN:OE1	1:A:3946:GLN:HA	2.06	0.54
1:A:4727:LYS:HG2	1:A:4728:HIS:CE1	2.43	0.54
1:B:234:SER:O	1:B:242:ARG:NE	2.34	0.54
1:B:583:ILE:HA	1:B:586:ILE:HD12	1.90	0.54
1:B:3456:GLN:O	1:B:3460:VAL:HG13	2.08	0.54
1:B:3895:HIS:HB3	1:B:3971:GLY:HA2	1.89	0.54
1:B:4156:HIS:HA	1:B:4161:ARG:HH21	1.73	0.54
1:D:23:GLN:HB3	1:D:34:LYS:NZ	2.23	0.54
1:D:630:GLU:OE2	1:D:630:GLU:N	2.34	0.54
1:D:2003:GLN:NE2	1:D:2007:ASN:OD1	2.41	0.54
1:D:3698:LEU:O	1:D:3702:VAL:HG23	2.08	0.54
1:C:2182:ILE:HA	1:C:2185:ILE:HD12	1.89	0.54
1:C:2431:ASP:O	1:C:2435:ARG:HG3	2.08	0.54
1:C:3246:LEU:HA	1:C:3249:LEU:HD12	1.90	0.54
1:C:3272:ILE:C	1:C:3275:PRO:HD2	2.28	0.54
1:C:3943:ILE:O	1:C:3948:LYS:NZ	2.41	0.54
1:C:4074:SER:O	1:C:4078:GLN:HG2	2.08	0.54
1:A:989:ALA:HA	1:A:1039:LEU:HD23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1731:LEU:HA	1:A:1772:ARG:HH12	1.73	0.54
1:A:3354:LEU:HA	1:A:3358:PHE:HB2	1.89	0.54
1:A:3537:LYS:HE3	1:A:3603:LEU:HD13	1.90	0.54
1:A:4654:ALA:O	1:A:4658:ILE:HG12	2.07	0.54
2:F:37:ASP:HB2	1:B:1782:PHE:HD2	1.71	0.54
1:B:615:ARG:HH12	1:B:1678:ASN:HA	1.73	0.54
1:B:2969:ILE:O	1:B:2972:GLU:HG3	2.07	0.54
1:B:3085:PRO:O	1:B:3089:LYS:HG3	2.08	0.54
1:B:3617:LYS:HD2	1:B:3618:ALA:N	2.23	0.54
1:B:5030:LYS:HA	1:B:5033:GLU:HB2	1.90	0.54
1:D:195:PHE:CG	1:C:2358:ILE:HB	2.42	0.54
1:D:1025:ARG:H	1:D:1025:ARG:HD3	1.73	0.54
1:D:1125:ASN:ND2	1:D:1128:ARG:HD2	2.22	0.54
1:D:1947:CYS:HB2	1:D:2126:ARG:HH12	1.71	0.54
1:D:2318:TYR:OH	1:D:2416:VAL:O	2.16	0.54
1:D:3617:LYS:HD2	1:D:3618:ALA:N	2.23	0.54
1:D:4074:SER:O	1:D:4078:GLN:HG2	2.08	0.54
1:D:4738:ALA:HA	1:D:4743:MET:SD	2.48	0.54
1:C:1813:ARG:O	1:C:1817:GLU:HG3	2.07	0.54
1:C:2245:GLN:H	1:C:2245:GLN:CD	2.12	0.54
1:C:4204:GLN:HB3	1:C:4245:MET:HG3	1.90	0.54
1:A:199:LEU:HD12	1:A:200:TRP:N	2.23	0.53
1:A:583:ILE:HA	1:A:586:ILE:HD12	1.90	0.53
1:A:866:HIS:O	1:A:870:ILE:HG12	2.08	0.53
1:A:2435:ARG:O	1:A:2508:ARG:NH2	2.41	0.53
1:A:2654:TYR:HA	1:A:2661:TRP:HB2	1.90	0.53
1:A:3222:LYS:HG3	1:A:3226:GLU:HB2	1.90	0.53
1:A:4963:ILE:HD13	1:A:5030:LYS:NZ	2.23	0.53
2:G:10:GLY:HA3	2:G:70:GLN:HB2	1.90	0.53
1:B:1717:SER:O	1:B:1721:GLU:HG2	2.08	0.53
1:B:1724:CYS:HA	1:B:1851:MET:HE1	1.89	0.53
1:B:2281:ILE:HG13	1:B:2282:ASP:OD1	2.08	0.53
1:B:2996:LYS:HE3	1:B:3000:LYS:HD3	1.89	0.53
1:B:3294:PRO:HB2	1:B:3297:PRO:HD2	1.88	0.53
1:D:170:ILE:HG13	1:D:179:TYR:CE1	2.43	0.53
1:D:583:ILE:HA	1:D:586:ILE:HD12	1.90	0.53
1:D:1935:VAL:O	1:D:1939:MET:HG3	2.08	0.53
1:D:2195:PRO:HB2	1:D:2199:ARG:HH21	1.73	0.53
1:D:2281:ILE:HG13	1:D:2282:ASP:OD1	2.08	0.53
1:D:2355:ARG:O	1:D:2358:ILE:HG12	2.08	0.53
1:D:2616:PRO:HG3	1:D:2650:ARG:HH12	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2822:THR:OG1	1:D:2824:GLU:OE2	2.21	0.53
1:D:4654:ALA:O	1:D:4658:ILE:HG12	2.07	0.53
1:C:615:ARG:HH12	1:C:1678:ASN:HA	1.73	0.53
1:C:866:HIS:O	1:C:870:ILE:HG12	2.08	0.53
1:C:1543:GLU:HG2	1:C:1544:PRO:HD2	1.90	0.53
1:C:1947:CYS:HB2	1:C:2126:ARG:HH12	1.71	0.53
1:C:2193:GLN:HG3	1:C:2194:HIS:ND1	2.22	0.53
1:C:2740:VAL:HG12	1:C:2818:ALA:HB1	1.90	0.53
1:C:2996:LYS:HE3	1:C:3000:LYS:HD3	1.89	0.53
1:C:3039:ILE:HB	1:C:3075:LEU:HD21	1.89	0.53
1:C:3085:PRO:O	1:C:3089:LYS:HG3	2.08	0.53
1:C:3456:GLN:O	1:C:3460:VAL:HG13	2.08	0.53
1:C:3617:LYS:HD2	1:C:3618:ALA:N	2.23	0.53
1:C:3946:GLN:OE1	1:C:3946:GLN:HA	2.06	0.53
1:C:4024:VAL:HG11	1:C:4142:ASN:HB3	1.89	0.53
1:C:4951:LYS:O	1:C:4955:GLU:HG2	2.08	0.53
1:A:39:ALA:HB2	1:A:47:CYS:HB3	1.90	0.53
1:A:403:MET:HE1	1:A:478:PHE:HZ	1.73	0.53
1:A:881:LEU:HD12	1:A:1041:GLN:HE21	1.72	0.53
1:A:1733:GLU:OE1	1:A:1733:GLU:N	2.27	0.53
1:A:1839:VAL:HG13	1:A:1843:LYS:HE3	1.89	0.53
1:A:1935:VAL:O	1:A:1939:MET:HG3	2.08	0.53
1:A:2013:LYS:HB2	1:A:3661:TRP:CE2	2.43	0.53
1:A:2293:GLN:OE1	1:A:2293:GLN:N	2.24	0.53
1:A:2578:MET:HE2	1:A:2582:MET:HG3	1.90	0.53
1:A:2616:PRO:HG3	1:A:2650:ARG:HH12	1.73	0.53
1:A:4746:ALA:O	1:A:4750:ILE:HG12	2.07	0.53
1:B:23:GLN:HB3	1:B:34:LYS:NZ	2.23	0.53
1:B:288:GLY:HA3	1:B:405:HIS:CE1	2.42	0.53
1:B:1125:ASN:ND2	1:B:1128:ARG:HD2	2.22	0.53
1:B:1935:VAL:O	1:B:1939:MET:HG3	2.08	0.53
1:B:2003:GLN:NE2	1:B:2007:ASN:OD1	2.41	0.53
1:B:2960:LEU:HA	1:B:2963:LEU:HB2	1.90	0.53
1:B:2970:SER:HA	1:B:2973:PHE:HE2	1.71	0.53
1:B:3528:THR:HG22	1:B:3563:VAL:HB	1.90	0.53
1:B:3860:ASN:HB3	1:B:3865:VAL:HB	1.88	0.53
1:D:692:TYR:O	1:D:827:LYS:NZ	2.41	0.53
1:D:1731:LEU:HA	1:D:1772:ARG:HH12	1.73	0.53
1:D:1839:VAL:HG13	1:D:1843:LYS:HE3	1.89	0.53
1:D:1954:ARG:NH2	1:D:2041:HIS:O	2.41	0.53
1:C:23:GLN:HB3	1:C:34:LYS:NZ	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1108:GLU:OE2	1:C:1108:GLU:N	2.36	0.53
1:C:2177:LEU:HD12	1:C:2180:GLN:NE2	2.23	0.53
1:C:2204:HIS:O	1:C:2208:MET:HG2	2.09	0.53
1:C:2318:TYR:OH	1:C:2418:LEU:N	2.41	0.53
1:C:2578:MET:CE	1:C:2582:MET:HG3	2.37	0.53
1:C:3825:GLU:OE1	1:C:3828:PHE:N	2.41	0.53
1:C:4037:ASN:O	1:C:4042:ARG:NH2	2.39	0.53
1:A:1272:LEU:HD22	1:A:1289:LEU:HD21	1.90	0.53
1:A:2018:GLU:O	1:A:2028:ARG:NH1	2.42	0.53
1:A:2620:GLN:O	1:A:2624:ARG:HG3	2.09	0.53
1:A:3187:ARG:HE	1:A:3271:GLU:HG3	1.74	0.53
1:A:3411:LEU:HD12	1:A:3412:LEU:N	2.23	0.53
1:A:3603:LEU:O	1:A:3607:GLU:HG3	2.08	0.53
2:E:94:HIS:CG	2:E:94:HIS:O	2.61	0.53
2:G:59:TRP:CZ3	1:C:1783:VAL:HG11	2.43	0.53
1:B:593:HIS:HA	1:B:1593:PRO:HG2	1.89	0.53
1:B:2245:GLN:CD	1:B:2245:GLN:H	2.12	0.53
1:B:2578:MET:CE	1:B:2582:MET:HG3	2.37	0.53
1:B:2578:MET:HE2	1:B:2582:MET:HG3	1.89	0.53
1:B:2627:VAL:HG22	1:B:2678:LEU:HD11	1.89	0.53
1:B:3210:LEU:HB3	1:B:3304:CYS:O	2.08	0.53
1:B:3603:LEU:O	1:B:3607:GLU:HG3	2.08	0.53
1:B:4074:SER:O	1:B:4078:GLN:HG2	2.08	0.53
1:D:1293:LEU:HD21	1:D:1594:ARG:HD3	1.91	0.53
1:D:2621:HIS:HA	1:D:2624:ARG:HE	1.73	0.53
1:D:3528:THR:HG22	1:D:3563:VAL:HB	1.90	0.53
1:D:3801:GLY:HA2	1:D:3804:ILE:HG22	1.91	0.53
1:C:290:TYR:N	1:C:302:VAL:O	2.39	0.53
1:C:1025:ARG:HD3	1:C:1025:ARG:H	1.73	0.53
1:C:1263:THR:OG1	1:C:1265:ASP:OD2	2.18	0.53
1:C:1653:LEU:HD22	1:C:1707:LEU:HD11	1.90	0.53
1:C:2310:CYS:SG	1:C:2312:MET:HG2	2.49	0.53
1:C:2393:ASP:OD1	1:C:2418:LEU:N	2.42	0.53
1:C:2637:ALA:O	1:C:2641:LEU:HG	2.09	0.53
1:C:2970:SER:HA	1:C:2973:PHE:HE2	1.71	0.53
1:A:615:ARG:HH12	1:A:1678:ASN:HA	1.73	0.53
1:A:2195:PRO:HB2	1:A:2199:ARG:HH21	1.73	0.53
1:A:3570:ARG:NH1	1:A:3570:ARG:HA	2.23	0.53
1:A:3801:GLY:HA2	1:A:3804:ILE:HG22	1.91	0.53
1:A:4903:ASP:O	1:A:4913:ARG:NH2	2.41	0.53
2:E:52:LYS:HA	2:E:52:LYS:HE2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:28:VAL:N	1:B:31:GLU:O	2.31	0.53
1:B:73:LEU:O	1:B:106:ALA:N	2.41	0.53
1:B:2620:GLN:O	1:B:2624:ARG:HG3	2.09	0.53
1:B:3114:LYS:HE2	1:B:3116:SER:H	1.73	0.53
1:B:3537:LYS:HE3	1:B:3603:LEU:HD13	1.90	0.53
1:B:3801:GLY:HA2	1:B:3804:ILE:HG22	1.91	0.53
1:D:615:ARG:HH12	1:D:1678:ASN:HA	1.74	0.53
1:D:1018:ASN:OD1	1:D:1021:LEU:N	2.42	0.53
1:D:2182:ILE:HA	1:D:2185:ILE:HD12	1.89	0.53
1:D:2245:GLN:H	1:D:2245:GLN:CD	2.12	0.53
1:D:2466:LEU:HA	1:D:2469:ILE:HD12	1.90	0.53
1:D:4903:ASP:O	1:D:4913:ARG:NH2	2.41	0.53
1:C:56:GLN:HA	1:C:309:THR:HG21	1.90	0.53
1:C:73:LEU:O	1:C:106:ALA:N	2.41	0.53
1:C:199:LEU:HD12	1:C:200:TRP:N	2.23	0.53
1:C:630:GLU:OE2	1:C:630:GLU:N	2.34	0.53
1:C:1478:ASP:OD1	1:C:1479:GLU:N	2.40	0.53
1:C:1935:VAL:O	1:C:1939:MET:HG3	2.08	0.53
1:C:2005:GLN:HA	1:C:2008:MET:SD	2.47	0.53
1:C:3247:ASP:HA	1:C:3250:MET:HG2	1.89	0.53
1:C:3801:GLY:HA2	1:C:3804:ILE:HG22	1.91	0.53
1:A:23:GLN:HB3	1:A:34:LYS:NZ	2.23	0.53
1:A:303:ASP:H	1:A:306:LYS:HE2	1.73	0.53
1:A:497:TYR:HA	1:A:502:HIS:HE1	1.73	0.53
1:A:630:GLU:OE2	1:A:630:GLU:N	2.34	0.53
1:A:1653:LEU:HD22	1:A:1707:LEU:HD11	1.90	0.53
1:A:1936:LYS:HB3	1:A:2105:TRP:CZ3	2.44	0.53
1:A:2189:LYS:HZ1	1:A:2193:GLN:HB2	1.73	0.53
1:A:2243:SER:OG	1:A:2245:GLN:OE1	2.18	0.53
1:A:2355:ARG:O	1:A:2358:ILE:HG12	2.08	0.53
1:A:2447:LYS:O	1:A:2451:LEU:HD12	2.09	0.53
1:A:4732:PHE:HD2	1:A:4737:ILE:HD13	1.74	0.53
2:G:7:ILE:HG12	1:C:719:LEU:HD22	1.91	0.53
1:B:403:MET:HE1	1:B:478:PHE:HZ	1.74	0.53
1:B:1543:GLU:HG2	1:B:1544:PRO:HD2	1.90	0.53
1:B:1731:LEU:HA	1:B:1772:ARG:HH12	1.73	0.53
1:B:2621:HIS:HA	1:B:2624:ARG:HE	1.73	0.53
1:B:2740:VAL:HG12	1:B:2818:ALA:HB1	1.90	0.53
1:B:2887:GLY:O	1:B:2891:LYS:HG3	2.09	0.53
1:B:3187:ARG:HE	1:B:3271:GLU:HG3	1.74	0.53
1:B:3411:LEU:HD12	1:B:3412:LEU:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4732:PHE:HD2	1:B:4737:ILE:HD13	1.74	0.53
1:D:1465:ASP:OD2	1:D:1468:LYS:N	2.42	0.53
1:D:1717:SER:O	1:D:1721:GLU:HG2	2.08	0.53
1:D:2204:HIS:O	1:D:2208:MET:HG2	2.08	0.53
1:D:2310:CYS:SG	1:D:2312:MET:HG2	2.49	0.53
1:D:2393:ASP:OD1	1:D:2418:LEU:N	2.42	0.53
1:D:3266:MET:HB2	1:D:3269:VAL:HB	1.91	0.53
1:D:3603:LEU:O	1:D:3607:GLU:HG3	2.08	0.53
1:D:3775:ALA:O	1:D:3778:MET:HG2	2.07	0.53
1:C:308:HIS:HD2	1:C:311:ALA:H	1.55	0.53
1:C:583:ILE:HA	1:C:586:ILE:HD12	1.90	0.53
1:C:1424:PRO:O	1:C:1428:LEU:HG	2.09	0.53
1:C:2004:GLU:OE1	1:C:2004:GLU:N	2.41	0.53
1:C:2340:PHE:CD2	1:C:2435:ARG:HD3	2.44	0.53
1:C:2627:VAL:HG22	1:C:2678:LEU:HD11	1.89	0.53
1:C:2871:LEU:HD12	1:C:2874:MET:HE2	1.90	0.53
1:C:3222:LYS:HG3	1:C:3226:GLU:HB2	1.90	0.53
1:C:3670:GLU:OE1	1:C:3731:LYS:NZ	2.29	0.53
1:C:4241:THR:O	1:C:4245:MET:HE2	2.09	0.53
1:A:2107:GLN:HG3	1:A:3683:GLN:HE22	1.74	0.53
1:A:2281:ILE:HG13	1:A:2282:ASP:OD1	2.08	0.53
1:A:2340:PHE:CD2	1:A:2435:ARG:HD3	2.44	0.53
1:A:2637:ALA:O	1:A:2641:LEU:HG	2.09	0.53
1:A:2707:ALA:HB1	1:A:3009:TYR:HD2	1.72	0.53
1:A:3146:HIS:CD2	1:A:3147:ILE:HD12	2.37	0.53
2:E:23:VAL:HG23	2:E:47:LYS:HD2	1.89	0.53
2:F:82:TYR:CD2	2:F:87:HIS:HB2	2.43	0.53
1:B:303:ASP:H	1:B:306:LYS:HE2	1.73	0.53
1:B:308:HIS:HD2	1:B:311:ALA:H	1.55	0.53
1:B:2013:LYS:HB2	1:B:3661:TRP:CE2	2.43	0.53
1:B:3368:ARG:NH1	1:B:3401:LEU:HB2	2.24	0.53
1:B:3570:ARG:NH1	1:B:3570:ARG:HA	2.23	0.53
1:B:4024:VAL:HG11	1:B:4142:ASN:HB3	1.89	0.53
1:B:4223:ASN:HB3	1:B:4224:GLU:OE2	2.09	0.53
1:D:866:HIS:O	1:D:870:ILE:HG12	2.08	0.53
1:D:1936:LYS:HB3	1:D:2105:TRP:CZ3	2.44	0.53
1:D:2013:LYS:HB2	1:D:3661:TRP:CE2	2.43	0.53
1:D:2620:GLN:O	1:D:2624:ARG:HG3	2.09	0.53
1:D:2960:LEU:HA	1:D:2963:LEU:HB2	1.90	0.53
1:D:3114:LYS:HE2	1:D:3116:SER:H	1.73	0.53
1:D:3294:PRO:HB2	1:D:3297:PRO:HD2	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3672:ARG:HD3	1:D:3672:ARG:H	1.74	0.53
1:D:3943:ILE:O	1:D:3948:LYS:NZ	2.41	0.53
1:C:1293:LEU:HD21	1:C:1594:ARG:HD3	1.91	0.53
1:C:2003:GLN:NE2	1:C:2007:ASN:OD1	2.41	0.53
1:C:2195:PRO:HB2	1:C:2199:ARG:HH21	1.73	0.53
1:C:2301:TYR:HB3	1:C:2331:TYR:CZ	2.43	0.53
1:C:2447:LYS:O	1:C:2451:LEU:HD12	2.09	0.53
1:C:2538:THR:O	1:C:2542:SER:OG	2.23	0.53
1:C:2887:GLY:O	1:C:2891:LYS:HG3	2.09	0.53
1:C:3266:MET:HB2	1:C:3269:VAL:HB	1.91	0.53
1:C:3570:ARG:HA	1:C:3570:ARG:NH1	2.23	0.53
1:C:3775:ALA:O	1:C:3778:MET:HG2	2.08	0.53
1:A:2182:ILE:HA	1:A:2185:ILE:HD12	1.90	0.53
1:A:2318:TYR:OH	1:A:2418:LEU:N	2.41	0.53
1:A:2621:HIS:HA	1:A:2624:ARG:HE	1.73	0.53
1:A:2960:LEU:HA	1:A:2963:LEU:HB2	1.90	0.53
1:A:4223:ASN:HB3	1:A:4224:GLU:OE2	2.09	0.53
2:E:17:LYS:HG2	2:E:20:GLN:HE22	1.73	0.53
1:B:2004:GLU:OE1	1:B:2004:GLU:N	2.42	0.53
1:B:2018:GLU:O	1:B:2028:ARG:NH1	2.42	0.53
1:B:2107:GLN:HG3	1:B:3683:GLN:HE22	1.74	0.53
1:D:3456:GLN:O	1:D:3460:VAL:HG13	2.08	0.53
1:D:3875:MET:HE2	1:D:3875:MET:N	2.22	0.53
1:C:991:ASN:O	1:C:995:VAL:HG23	2.09	0.53
1:C:2013:LYS:HB2	1:C:3661:TRP:CE2	2.43	0.53
1:C:2355:ARG:O	1:C:2358:ILE:HG12	2.08	0.53
1:C:2620:GLN:O	1:C:2624:ARG:HG3	2.09	0.53
1:C:2654:TYR:HA	1:C:2661:TRP:HB2	1.90	0.53
1:C:3114:LYS:HE2	1:C:3116:SER:H	1.73	0.53
1:C:3537:LYS:HE3	1:C:3603:LEU:HD13	1.90	0.53
1:C:4223:ASN:HB3	1:C:4224:GLU:OE2	2.09	0.53
1:A:593:HIS:HA	1:A:1593:PRO:HG2	1.89	0.53
1:A:1543:GLU:HG2	1:A:1544:PRO:HD2	1.90	0.53
1:A:1690:ASP:OD2	1:A:1693:GLN:N	2.40	0.53
1:A:2245:GLN:H	1:A:2245:GLN:CD	2.12	0.53
1:A:2281:ILE:HD12	1:A:2282:ASP:H	1.74	0.53
1:A:2538:THR:O	1:A:2542:SER:OG	2.23	0.53
1:A:3844:LEU:O	1:A:3848:GLU:HG2	2.09	0.53
1:B:39:ALA:HB2	1:B:47:CYS:HB3	1.90	0.53
1:B:866:HIS:O	1:B:870:ILE:HG12	2.08	0.53
1:B:3505:VAL:HG13	1:B:3511:VAL:HG11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:403:MET:HE1	1:D:478:PHE:HZ	1.74	0.53
1:D:991:ASN:O	1:D:995:VAL:HG23	2.09	0.53
1:D:1543:GLU:HG2	1:D:1544:PRO:HD2	1.90	0.53
1:D:2301:TYR:HB3	1:D:2331:TYR:CZ	2.43	0.53
1:D:3222:LYS:HG3	1:D:3226:GLU:HB2	1.90	0.53
1:D:5006:GLN:H	1:D:5006:GLN:CD	2.12	0.53
1:C:218:HIS:HD2	1:C:392:ARG:HH22	1.57	0.53
1:C:819:GLU:OE1	1:C:819:GLU:N	2.42	0.53
1:C:1954:ARG:NH2	1:C:2041:HIS:O	2.41	0.53
1:C:3368:ARG:NH1	1:C:3401:LEU:HB2	2.24	0.53
1:C:3603:LEU:O	1:C:3607:GLU:HG3	2.08	0.53
1:C:3916:ILE:HD12	1:C:3916:ILE:H	1.74	0.53
1:A:170:ILE:HG13	1:A:179:TYR:CE1	2.43	0.53
1:A:218:HIS:HD2	1:A:392:ARG:HH22	1.57	0.53
1:A:991:ASN:O	1:A:995:VAL:HG23	2.09	0.53
1:A:2230:THR:OG1	1:A:2268[B]:GLN:NE2	2.38	0.53
1:A:2310:CYS:SG	1:A:2312:MET:HG2	2.49	0.53
1:A:2887:GLY:O	1:A:2891:LYS:HG3	2.09	0.53
1:A:3563:VAL:HG21	1:A:3573:MET:CG	2.39	0.53
1:B:991:ASN:O	1:B:995:VAL:HG23	2.09	0.53
1:B:1424:PRO:O	1:B:1428:LEU:HG	2.09	0.53
1:B:1855:GLY:O	1:B:1859:VAL:HG23	2.07	0.53
1:B:2310:CYS:SG	1:B:2312:MET:HG2	2.49	0.53
1:B:2452:ARG:HD2	1:B:2453:ILE:HD13	1.90	0.53
1:B:3384:LYS:HD2	1:B:3385:ALA:H	1.73	0.53
1:B:4007:SER:O	1:B:4010:ILE:HG12	2.09	0.53
1:D:303:ASP:H	1:D:306:LYS:HE2	1.73	0.53
1:D:2578:MET:HE2	1:D:2582:MET:HG3	1.91	0.53
1:D:2654:TYR:HA	1:D:2661:TRP:HB2	1.90	0.53
1:D:3085:PRO:O	1:D:3089:LYS:HG3	2.08	0.53
1:D:3210:LEU:HB3	1:D:3304:CYS:O	2.08	0.53
1:D:3247:ASP:HA	1:D:3250:MET:HG2	1.89	0.53
1:D:3916:ILE:H	1:D:3916:ILE:HD12	1.74	0.53
1:C:670:GLU:OE1	1:C:670:GLU:N	2.42	0.53
1:C:1153:ILE:HD13	1:C:1160:ILE:HG12	1.91	0.53
1:C:2960:LEU:HA	1:C:2963:LEU:HB2	1.90	0.53
1:C:3384:LYS:HD2	1:C:3385:ALA:H	1.73	0.53
1:C:3528:THR:HG22	1:C:3563:VAL:HB	1.90	0.53
1:C:3844:LEU:O	1:C:3848:GLU:HG2	2.09	0.53
1:A:73:LEU:O	1:A:106:ALA:N	2.41	0.53
1:A:262:LEU:HD21	1:A:280:LEU:HD13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1465:ASP:OD2	1:A:1468:LYS:N	2.42	0.53
1:A:1939:MET:SD	1:A:2105:TRP:HH2	2.32	0.53
1:A:2003:GLN:NE2	1:A:2007:ASN:OD1	2.41	0.53
1:A:2393:ASP:OD1	1:A:2418:LEU:N	2.42	0.53
1:A:2828:GLU:OE2	1:A:2935:TYR:OH	2.24	0.53
1:A:3522:LEU:HD22	1:B:1220:GLN:CD	2.30	0.53
2:H:73:LYS:HE3	1:D:719:LEU:HD23	1.90	0.53
1:B:1936:LYS:HB3	1:B:2105:TRP:CZ3	2.44	0.53
1:B:2340:PHE:CD2	1:B:2435:ARG:HD3	2.44	0.53
1:B:2393:ASP:OD1	1:B:2418:LEU:N	2.42	0.53
1:B:2637:ALA:O	1:B:2641:LEU:HG	2.08	0.53
1:B:3222:LYS:HG3	1:B:3226:GLU:HB2	1.90	0.53
1:B:3563:VAL:HG21	1:B:3573:MET:CG	2.39	0.53
1:B:4090:LYS:HD2	1:B:4123:ILE:HD11	1.90	0.53
1:D:199:LEU:HD12	1:D:200:TRP:N	2.23	0.53
1:D:218:HIS:HD2	1:D:392:ARG:HH22	1.57	0.53
1:D:218:HIS:HB3	1:D:392:ARG:NH1	2.24	0.53
1:D:468:LEU:O	1:D:472:ARG:HG2	2.09	0.53
1:D:2224:ARG:HB2	1:D:2225:PHE:CE2	2.44	0.53
1:D:2871:LEU:HD12	1:D:2874:MET:HE2	1.91	0.53
1:D:3228:ALA:HA	1:D:3232:LEU:HD23	1.91	0.53
1:D:3368:ARG:NH1	1:D:3401:LEU:HB2	2.24	0.53
1:D:3570:ARG:NH1	1:D:3570:ARG:HA	2.23	0.53
1:D:4732:PHE:HD2	1:D:4737:ILE:HD13	1.74	0.53
1:C:118:LEU:HA	1:C:137:LEU:HA	1.91	0.53
1:C:1272:LEU:HD22	1:C:1289:LEU:HD21	1.90	0.53
1:C:1465:ASP:OD2	1:C:1468:LYS:N	2.42	0.53
1:C:1731:LEU:HA	1:C:1772:ARG:HH12	1.73	0.53
1:C:1939:MET:SD	1:C:2105:TRP:HH2	2.32	0.53
1:C:2578:MET:HE2	1:C:2582:MET:HG3	1.91	0.53
1:C:3505:VAL:HG13	1:C:3511:VAL:HG11	1.91	0.53
1:C:3592:ILE:O	1:C:3595:ARG:HG3	2.09	0.53
1:A:484:LEU:HD13	1:A:529:LEU:HD22	1.91	0.52
1:A:3592:ILE:O	1:A:3595:ARG:HG3	2.09	0.52
1:A:4090:LYS:HD2	1:A:4123:ILE:HD11	1.90	0.52
2:G:88:PRO:HB2	1:C:623:GLU:OE2	2.08	0.52
1:B:670:GLU:OE1	1:B:670:GLU:N	2.42	0.52
1:B:686:TRP:HA	1:B:779:PRO:HA	1.91	0.52
1:B:2195:PRO:HB2	1:B:2199:ARG:HH21	1.73	0.52
1:B:2281:ILE:HD12	1:B:2282:ASP:H	1.74	0.52
1:B:2520:HIS:HA	1:B:2523:ASP:OD2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4241:THR:O	1:B:4245:MET:HE2	2.09	0.52
1:D:118:LEU:HA	1:D:137:LEU:HA	1.91	0.52
1:D:1424:PRO:O	1:D:1428:LEU:HG	2.09	0.52
1:D:2044:ILE:HG23	1:D:3667:HIS:CD2	2.44	0.52
1:D:2340:PHE:CD2	1:D:2435:ARG:HD3	2.44	0.52
1:D:2447:LYS:O	1:D:2451:LEU:HD12	2.09	0.52
1:D:2637:ALA:O	1:D:2641:LEU:HG	2.08	0.52
1:D:2980:VAL:HB	1:D:2985:ARG:HA	1.91	0.52
1:D:3384:LYS:HD2	1:D:3385:ALA:H	1.73	0.52
1:D:3537:LYS:HE3	1:D:3603:LEU:HD13	1.90	0.52
1:D:4208:PRO:O	1:D:4212:GLU:HG2	2.09	0.52
1:C:39:ALA:HB2	1:C:47:CYS:HB3	1.90	0.52
1:C:262:LEU:HD21	1:C:280:LEU:HD13	1.91	0.52
1:C:2520:HIS:HA	1:C:2523:ASP:OD2	2.09	0.52
1:C:3187:ARG:HE	1:C:3271:GLU:HG3	1.74	0.52
1:C:3228:ALA:HA	1:C:3232:LEU:HD23	1.91	0.52
1:C:3672:ARG:H	1:C:3672:ARG:HD3	1.74	0.52
1:C:4732:PHE:HD2	1:C:4737:ILE:HD13	1.74	0.52
1:A:651:GLY:O	1:A:658:GLN:NE2	2.42	0.52
1:A:670:GLU:N	1:A:670:GLU:OE1	2.42	0.52
1:A:2198:MET:HB3	1:A:2203:MET:SD	2.50	0.52
1:A:2584[B]:HIS:HD2	1:A:2625:ARG:HD3	1.74	0.52
1:A:3266:MET:HB2	1:A:3269:VAL:HB	1.91	0.52
1:A:3384:LYS:HD2	1:A:3385:ALA:H	1.73	0.52
1:A:3528:THR:HG22	1:A:3563:VAL:HB	1.90	0.52
1:A:4712:PRO:HB2	1:A:4715:TYR:HB3	1.92	0.52
1:A:4824:ARG:HA	1:A:4827:LEU:HG	1.91	0.52
1:B:218:HIS:HD2	1:B:392:ARG:HH22	1.57	0.52
1:B:360:ALA:HA	1:B:377:ILE:HG12	1.91	0.52
1:B:413:GLN:HE22	1:B:437:PRO:HD3	1.74	0.52
1:B:959:TYR:O	1:B:961:MET:HE3	2.09	0.52
1:B:1434:TYR:HE1	1:B:1517:GLY:HA3	1.75	0.52
1:B:1939:MET:SD	1:B:2105:TRP:HH2	2.32	0.52
1:B:2198:MET:HB3	1:B:2203:MET:SD	2.50	0.52
1:B:2204:HIS:O	1:B:2208:MET:HG2	2.08	0.52
1:B:2355:ARG:O	1:B:2358:ILE:HG12	2.08	0.52
1:B:2452:ARG:HH11	1:C:175:SER:HA	1.73	0.52
1:B:2583:LEU:HD11	1:B:2614:ILE:HD13	1.91	0.52
1:B:3247:ASP:HA	1:B:3250:MET:HG2	1.89	0.52
1:B:3592:ILE:O	1:B:3595:ARG:HG3	2.09	0.52
1:B:3916:ILE:H	1:B:3916:ILE:HD12	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4583:SER:HB3	1:B:4631:PHE:CZ	2.45	0.52
1:B:4903:ASP:O	1:B:4913:ARG:NH2	2.41	0.52
1:D:73:LEU:O	1:D:106:ALA:N	2.41	0.52
1:D:414:PHE:CE1	1:D:418:LEU:HD21	2.45	0.52
1:D:2018:GLU:O	1:D:2028:ARG:NH1	2.42	0.52
1:D:2107:GLN:HG3	1:D:3683:GLN:HE22	1.74	0.52
1:D:3435:PHE:HD1	1:D:3517:MET:HB2	1.74	0.52
1:D:3844:LEU:O	1:D:3848:GLU:HG2	2.09	0.52
1:D:4968:PHE:O	1:D:4974:GLY:HA3	2.09	0.52
1:C:670:GLU:OE1	1:C:788:LYS:NZ	2.43	0.52
1:C:2018:GLU:O	1:C:2028:ARG:NH1	2.42	0.52
1:C:3384:LYS:HG3	1:C:3386:GLU:HG3	1.92	0.52
1:C:3756:LYS:HG2	1:C:3760:LYS:HE3	1.91	0.52
1:C:4007:SER:O	1:C:4010:ILE:HG12	2.09	0.52
1:C:4968:PHE:O	1:C:4974:GLY:HA3	2.09	0.52
1:A:218:HIS:HB3	1:A:392:ARG:NH1	2.24	0.52
1:A:360:ALA:HA	1:A:377:ILE:HG12	1.92	0.52
1:A:468:LEU:O	1:A:472:ARG:HG2	2.09	0.52
1:A:1220:GLN:CD	1:D:3522:LEU:HD22	2.29	0.52
1:A:1424:PRO:O	1:A:1428:LEU:HG	2.09	0.52
1:A:2871:LEU:HD12	1:A:2874:MET:HE2	1.91	0.52
1:A:2902:HIS:HD2	1:A:2905:LEU:HG	1.74	0.52
1:A:2980:VAL:HB	1:A:2985:ARG:HA	1.92	0.52
1:A:3617:LYS:HD2	1:A:3618:ALA:N	2.23	0.52
1:A:4208:PRO:O	1:A:4212:GLU:HG2	2.09	0.52
1:A:4968:PHE:O	1:A:4974:GLY:HA3	2.09	0.52
1:B:170:ILE:HG13	1:B:179:TYR:CE1	2.43	0.52
1:B:218:HIS:HB3	1:B:392:ARG:NH1	2.24	0.52
1:B:651:GLY:O	1:B:658:GLN:NE2	2.42	0.52
1:B:1018:ASN:OD1	1:B:1021:LEU:N	2.42	0.52
1:B:2224:ARG:HB2	1:B:2225:PHE:CE2	2.44	0.52
1:B:2980:VAL:HB	1:B:2985:ARG:HA	1.91	0.52
1:B:4980:LEU:HB2	1:B:4981:GLU:OE2	2.09	0.52
1:D:262:LEU:HD21	1:D:280:LEU:HD13	1.91	0.52
1:D:360:ALA:HA	1:D:377:ILE:HG12	1.92	0.52
1:D:497:TYR:HA	1:D:502:HIS:HE1	1.73	0.52
1:D:580:GLU:HB2	1:D:620:LEU:HD13	1.91	0.52
1:D:970:LEU:H	1:D:970:LEU:HD12	1.75	0.52
1:D:1939:MET:SD	1:D:2105:TRP:HH2	2.32	0.52
1:D:2198:MET:HB3	1:D:2203:MET:SD	2.50	0.52
1:D:4902:GLU:OE2	1:D:4902:GLU:N	2.26	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4980:LEU:HB2	1:D:4981:GLU:OE2	2.09	0.52
1:C:468:LEU:O	1:C:472:ARG:HG2	2.09	0.52
1:C:1936:LYS:HB3	1:C:2105:TRP:CZ3	2.44	0.52
1:C:4208:PRO:O	1:C:4212:GLU:HG2	2.09	0.52
1:A:959:TYR:O	1:A:961:MET:HE3	2.09	0.52
1:A:1206:GLN:HE22	1:A:1233:PRO:HG3	1.74	0.52
1:A:2914:LYS:HD2	1:A:2915:GLU:HG3	1.92	0.52
1:B:1465:ASP:OD2	1:B:1468:LYS:N	2.42	0.52
1:B:2858:GLN:HB2	1:B:2859:PRO:HD3	1.92	0.52
1:B:3266:MET:HB2	1:B:3269:VAL:HB	1.91	0.52
1:B:3410:PRO:O	1:B:3414:ARG:HG2	2.10	0.52
1:B:4712:PRO:HB2	1:B:4715:TYR:HB3	1.92	0.52
1:D:460:GLN:O	1:D:464:LYS:HB2	2.10	0.52
1:D:483:MET:HA	1:D:486:LEU:HG	1.92	0.52
1:D:670:GLU:OE1	1:D:670:GLU:N	2.42	0.52
1:D:2247:GLN:HA	1:D:2250:MET:HE3	1.89	0.52
1:D:3187:ARG:HE	1:D:3271:GLU:HG3	1.73	0.52
1:C:348:VAL:HG13	1:C:357:LEU:HB3	1.92	0.52
1:C:414:PHE:CE1	1:C:418:LEU:HD21	2.45	0.52
1:C:460:GLN:O	1:C:464:LYS:HB2	2.10	0.52
1:C:1018:ASN:OD1	1:C:1021:LEU:N	2.42	0.52
1:C:2107:GLN:NE2	1:C:3680:ALA:HA	2.25	0.52
1:C:3435:PHE:HD1	1:C:3517:MET:HB2	1.75	0.52
1:C:4712:PRO:HB2	1:C:4715:TYR:HB3	1.92	0.52
1:C:4826:ILE:O	1:C:4830:VAL:HG23	2.10	0.52
1:A:56:GLN:HA	1:A:309:THR:HG21	1.90	0.52
1:A:483:MET:HA	1:A:486:LEU:HG	1.92	0.52
1:A:486:LEU:HD12	1:A:487:VAL:HG23	1.92	0.52
1:A:681:HIS:N	1:A:784:SER:OG	2.36	0.52
1:A:979:PRO:O	1:A:983:THR:HG23	2.10	0.52
1:A:2466:LEU:HA	1:A:2469:ILE:HD12	1.90	0.52
1:A:3085:PRO:O	1:A:3089:LYS:HG3	2.08	0.52
1:A:3368:ARG:NH1	1:A:3401:LEU:HB2	2.24	0.52
1:A:3505:VAL:HG13	1:A:3511:VAL:HG11	1.91	0.52
1:B:283:ARG:HG2	1:B:283:ARG:HH11	1.75	0.52
1:B:468:LEU:O	1:B:472:ARG:HG2	2.09	0.52
1:B:497:TYR:HA	1:B:502:HIS:HE1	1.73	0.52
1:B:4157:ASP:O	1:B:4161:ARG:HG2	2.10	0.52
1:D:39:ALA:HB2	1:D:47:CYS:HB3	1.90	0.52
1:D:348:VAL:HG13	1:D:357:LEU:HB3	1.92	0.52
1:D:979:PRO:O	1:D:983:THR:HG23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1206:GLN:HE22	1:D:1233:PRO:HG3	1.74	0.52
1:D:1272:LEU:HD22	1:D:1289:LEU:HD21	1.90	0.52
1:D:1653:LEU:HD22	1:D:1707:LEU:HD11	1.90	0.52
1:D:1974:ARG:HE	1:D:3642:TYR:HB2	1.74	0.52
1:D:2189:LYS:HA	1:D:2192:TYR:HD2	1.75	0.52
1:D:2740:VAL:HG12	1:D:2818:ALA:HB1	1.90	0.52
1:D:3308:THR:OG1	1:D:3310:ASP:OD2	2.16	0.52
1:D:3505:VAL:HG13	1:D:3511:VAL:HG11	1.91	0.52
1:D:3563:VAL:HG21	1:D:3573:MET:CG	2.39	0.52
1:D:4007:SER:O	1:D:4010:ILE:HG12	2.09	0.52
1:C:170:ILE:HG13	1:C:179:TYR:CE1	2.44	0.52
1:C:283:ARG:HG2	1:C:283:ARG:HH11	1.75	0.52
1:C:692:TYR:O	1:C:827:LYS:NZ	2.41	0.52
1:C:871:ARG:HD2	1:C:872:GLU:N	2.25	0.52
1:C:908:VAL:HG13	1:C:909:ASN:H	1.75	0.52
1:C:959:TYR:O	1:C:961:MET:HE3	2.09	0.52
1:C:1434:TYR:HE1	1:C:1517:GLY:HA3	1.75	0.52
1:C:1653:LEU:HA	1:C:1656:ARG:HD2	1.92	0.52
1:C:2107:GLN:HG3	1:C:3683:GLN:HE22	1.74	0.52
1:C:2583:LEU:HD11	1:C:2614:ILE:HD13	1.91	0.52
1:C:3933:PHE:HB3	1:C:3951:PHE:CZ	2.45	0.52
1:A:22:LEU:HD21	1:A:37:LEU:HB3	1.92	0.52
1:A:1018:ASN:OD1	1:A:1021:LEU:N	2.42	0.52
1:A:2189:LYS:HA	1:A:2192:TYR:HD2	1.75	0.52
1:A:2583:LEU:HD11	1:A:2614:ILE:HD13	1.91	0.52
1:A:2661:TRP:HB3	1:A:2664:PHE:HB2	1.92	0.52
1:A:2719:TYR:HD2	1:A:2953:LYS:HB3	1.74	0.52
1:A:3336:LYS:HZ3	1:A:3403:ARG:HG3	1.75	0.52
1:A:3725:TYR:O	1:A:3729:MET:HG3	2.09	0.52
1:A:4920:PHE:CD2	1:A:4925:ILE:HD11	2.45	0.52
1:B:22:LEU:HD21	1:B:37:LEU:HB3	1.92	0.52
1:B:348:VAL:HG13	1:B:357:LEU:HB3	1.92	0.52
1:B:580:GLU:HB2	1:B:620:LEU:HD13	1.91	0.52
1:B:1653:LEU:HD22	1:B:1707:LEU:HD11	1.90	0.52
1:B:2155:LEU:O	1:B:2159:LEU:HG	2.10	0.52
1:B:2584[B]:HIS:HD2	1:B:2625:ARG:HD3	1.74	0.52
1:B:2616:PRO:HG3	1:B:2650:ARG:HH12	1.73	0.52
1:B:3364:ARG:O	1:B:3367:LYS:HG3	2.10	0.52
1:B:3753:PHE:CE2	1:B:4717:ASP:HA	2.44	0.52
1:D:1260:MET:N	1:D:1260:MET:SD	2.83	0.52
1:D:2212:VAL:HG11	1:D:2256:TYR:CE2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2887:GLY:O	1:D:2891:LYS:HG3	2.09	0.52
1:D:2902:HIS:HD2	1:D:2905:LEU:HG	1.74	0.52
1:D:3825:GLU:OE1	1:D:3828:PHE:N	2.41	0.52
1:D:4223:ASN:HB3	1:D:4224:GLU:OE2	2.09	0.52
1:D:4712:PRO:HB2	1:D:4715:TYR:HB3	1.91	0.52
1:C:486:LEU:HD12	1:C:487:VAL:HG23	1.92	0.52
1:C:1954:ARG:O	1:C:1958:LEU:HD12	2.10	0.52
1:C:2914:LYS:HD2	1:C:2915:GLU:HG3	1.92	0.52
1:C:2980:VAL:HB	1:C:2985:ARG:HA	1.92	0.52
1:C:3364:ARG:O	1:C:3367:LYS:HG3	2.10	0.52
1:C:3875:MET:N	1:C:3875:MET:HE2	2.23	0.52
1:C:4902:GLU:O	1:C:4913:ARG:NH1	2.39	0.52
1:C:4978:HIS:HA	1:C:4982:GLU:HG3	1.92	0.52
1:A:871:ARG:HD2	1:A:872:GLU:N	2.25	0.52
1:A:1075:PHE:HE2	1:A:1194:LEU:HB2	1.75	0.52
1:A:1260:MET:N	1:A:1260:MET:SD	2.83	0.52
1:A:1954:ARG:O	1:A:1958:LEU:HD12	2.10	0.52
1:A:2044:ILE:HG23	1:A:3667:HIS:CD2	2.44	0.52
1:A:2195:PRO:HA	1:A:2198:MET:SD	2.50	0.52
1:A:3410:PRO:O	1:A:3414:ARG:HG2	2.10	0.52
1:A:3933:PHE:HB3	1:A:3951:PHE:CZ	2.45	0.52
1:A:4007:SER:O	1:A:4010:ILE:HG12	2.09	0.52
1:A:4067:LYS:HA	1:A:4070:ASP:OD1	2.10	0.52
2:F:87:HIS:CD2	2:F:88:PRO:HD2	2.45	0.52
1:B:414:PHE:CE1	1:B:418:LEU:HD21	2.44	0.52
1:B:1974:ARG:HE	1:B:3642:TYR:HB2	1.74	0.52
1:B:2107:GLN:NE2	1:B:3680:ALA:HA	2.25	0.52
1:B:2312:MET:HA	1:B:2315:ALA:HB3	1.92	0.52
1:B:3672:ARG:H	1:B:3672:ARG:HD3	1.74	0.52
1:B:3844:LEU:O	1:B:3848:GLU:HG2	2.09	0.52
1:D:601:ASP:OD1	1:D:1665:HIS:ND1	2.43	0.52
1:D:2004:GLU:OE1	1:D:2004:GLU:N	2.41	0.52
1:D:2719:TYR:HD2	1:D:2953:LYS:HB3	1.74	0.52
1:D:3187:ARG:NH2	1:D:3263:TYR:OH	2.38	0.52
1:D:3384:LYS:HG3	1:D:3386:GLU:HG3	1.92	0.52
1:D:3410:PRO:O	1:D:3414:ARG:HG2	2.10	0.52
1:D:3753:PHE:CE2	1:D:4717:ASP:HA	2.44	0.52
1:D:4157:ASP:O	1:D:4161:ARG:HG2	2.10	0.52
1:D:4583:SER:HB3	1:D:4631:PHE:CZ	2.45	0.52
1:C:303:ASP:H	1:C:306:LYS:HE2	1.73	0.52
1:C:360:ALA:HA	1:C:377:ILE:HG12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2312:MET:HA	1:C:2315:ALA:HB3	1.92	0.52
1:C:2719:TYR:HD2	1:C:2953:LYS:HB3	1.74	0.52
1:C:3725:TYR:O	1:C:3729:MET:HG3	2.09	0.52
1:A:601:ASP:OD1	1:A:1665:HIS:ND1	2.43	0.52
1:A:1226:PHE:O	1:A:1827:ARG:NH2	2.43	0.52
1:A:1475:THR:HA	1:A:1486:SER:HA	1.92	0.52
1:A:4583:SER:HB3	1:A:4631:PHE:CZ	2.45	0.52
1:A:4980:LEU:HB2	1:A:4981:GLU:OE2	2.09	0.52
1:B:1954:ARG:O	1:B:1958:LEU:HD12	2.10	0.52
1:B:2095:GLN:H	1:B:2095:GLN:CD	2.13	0.52
1:B:2447:LYS:O	1:B:2451:LEU:HD12	2.09	0.52
1:D:484:LEU:HD13	1:D:529:LEU:HD22	1.92	0.52
1:D:884:LEU:O	1:D:888:GLU:HG2	2.10	0.52
1:D:1291:LEU:HB3	1:D:1595:LEU:HD11	1.92	0.52
1:D:1690:ASP:OD2	1:D:1693:GLN:N	2.40	0.52
1:D:1854:PHE:CZ	1:D:1862:ILE:HD11	2.45	0.52
1:D:2520:HIS:HA	1:D:2523:ASP:OD2	2.09	0.52
1:D:2584[B]:HIS:HD2	1:D:2625:ARG:HD3	1.74	0.52
1:D:2752:ASP:HA	1:D:2755:ILE:HG13	1.91	0.52
1:D:3545:THR:OG1	1:D:3547:GLU:OE1	2.21	0.52
1:D:3725:TYR:O	1:D:3729:MET:HG3	2.09	0.52
1:C:884:LEU:O	1:C:888:GLU:HG2	2.10	0.52
1:C:971:ASP:OD2	1:C:974:HIS:ND1	2.33	0.52
1:C:979:PRO:O	1:C:983:THR:HG23	2.10	0.52
1:C:1260:MET:N	1:C:1260:MET:SD	2.83	0.52
1:C:2584[B]:HIS:HD2	1:C:2625:ARG:HD3	1.74	0.52
1:C:2616:PRO:HG3	1:C:2650:ARG:HH12	1.73	0.52
1:C:3529:ASP:HB3	1:C:3533:ILE:HD11	1.92	0.52
1:A:580:GLU:HB2	1:A:620:LEU:HD13	1.91	0.52
1:A:686:TRP:HA	1:A:779:PRO:HA	1.91	0.52
1:A:908:VAL:HG13	1:A:909:ASN:H	1.75	0.52
1:A:1291:LEU:HB3	1:A:1595:LEU:HD11	1.92	0.52
1:A:2155:LEU:O	1:A:2159:LEU:HG	2.10	0.52
1:A:2204:HIS:O	1:A:2208:MET:HG2	2.09	0.52
1:A:2224:ARG:HB2	1:A:2225:PHE:CE2	2.44	0.52
1:A:2858:GLN:HB2	1:A:2859:PRO:HD3	1.92	0.52
1:A:2954:ARG:HH12	1:A:3031:ALA:HA	1.75	0.52
1:A:3108:GLU:HA	1:A:3111:ARG:HG2	1.92	0.52
1:A:3364:ARG:O	1:A:3367:LYS:HG3	2.10	0.52
1:A:3834:ALA:O	1:A:3838:THR:HG23	2.10	0.52
1:A:3916:ILE:H	1:A:3916:ILE:HD12	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:262:LEU:HD21	1:B:280:LEU:HD13	1.91	0.52
1:B:639:ASN:N	1:B:678:GLN:OE1	2.40	0.52
1:B:670:GLU:OE1	1:B:788:LYS:NZ	2.43	0.52
1:B:871:ARG:HD2	1:B:872:GLU:N	2.25	0.52
1:B:1226:PHE:O	1:B:1827:ARG:NH2	2.43	0.52
1:B:1260:MET:N	1:B:1260:MET:SD	2.83	0.52
1:B:1653:LEU:HA	1:B:1656:ARG:HD2	1.92	0.52
1:B:2195:PRO:HA	1:B:2198:MET:SD	2.50	0.52
1:B:2212:VAL:HG11	1:B:2256:TYR:CE2	2.45	0.52
1:B:2244:ARG:HH21	1:B:2248:ARG:NH2	2.08	0.52
1:B:2622:LEU:O	1:B:2626:LEU:HD12	2.10	0.52
1:B:3053:ARG:HA	1:B:3056:LEU:HD13	1.92	0.52
1:B:3725:TYR:O	1:B:3729:MET:HG3	2.09	0.52
1:B:4208:PRO:O	1:B:4212:GLU:HG2	2.09	0.52
1:B:4246:GLN:O	1:B:4250:GLN:NE2	2.43	0.52
1:D:627:PRO:HA	1:D:629:ARG:HH21	1.75	0.52
1:D:908:VAL:HG13	1:D:909:ASN:H	1.75	0.52
1:D:3551:GLU:O	1:D:3555:ASN:ND2	2.43	0.52
1:D:4005:GLN:HA	1:D:4114:CYS:HA	1.92	0.52
1:D:4037:ASN:HD22	1:D:5035:GLN:HE22	1.58	0.52
1:C:22:LEU:HD21	1:C:37:LEU:HB3	1.92	0.52
1:C:413:GLN:HE22	1:C:437:PRO:HD3	1.74	0.52
1:C:1226:PHE:O	1:C:1827:ARG:NH2	2.43	0.52
1:C:2095:GLN:CD	1:C:2095:GLN:H	2.13	0.52
1:C:2330:ARG:HA	1:C:2333:ASP:OD2	2.10	0.52
1:C:3004:PRO:O	1:C:3008:GLN:HG3	2.10	0.52
1:C:4037:ASN:HD22	1:C:5035:GLN:HE22	1.58	0.52
1:C:4090:LYS:HD2	1:C:4123:ILE:HD11	1.90	0.52
1:C:4583:SER:HB3	1:C:4631:PHE:CZ	2.45	0.52
1:A:639:ASN:N	1:A:678:GLN:OE1	2.40	0.52
1:A:1153:ILE:HD13	1:A:1160:ILE:HG12	1.91	0.52
1:A:1854:PHE:CZ	1:A:1862:ILE:HD11	2.45	0.52
1:A:2358:ILE:HB	1:B:195:PHE:CG	2.45	0.52
1:A:3775:ALA:HA	1:A:3778:MET:SD	2.50	0.52
2:G:105:LYS:NZ	2:G:106:LEU:H	2.07	0.52
2:F:52:LYS:HE2	2:F:52:LYS:HA	1.91	0.52
1:B:908:VAL:HG13	1:B:909:ASN:H	1.75	0.52
1:B:1293:LEU:HD21	1:B:1594:ARG:HD3	1.91	0.52
1:B:1805:GLU:OE1	1:B:1805:GLU:N	2.31	0.52
1:B:3435:PHE:HD1	1:B:3517:MET:HB2	1.75	0.52
1:B:3529:ASP:HB3	1:B:3533:ILE:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4781:GLY:O	1:B:4785:THR:HG23	2.11	0.52
1:B:4910:GLU:HG2	1:B:4911:LEU:HD12	1.92	0.52
1:D:22:LEU:HD21	1:D:37:LEU:HB3	1.92	0.52
1:D:1422:ASP:N	1:D:1422:ASP:OD1	2.43	0.52
1:D:2095:GLN:CD	1:D:2095:GLN:H	2.13	0.52
1:D:2195:PRO:HA	1:D:2198:MET:SD	2.50	0.52
1:D:2244:ARG:HH21	1:D:2248:ARG:NH2	2.08	0.52
1:D:2281:ILE:HD12	1:D:2282:ASP:H	1.74	0.52
1:D:2914:LYS:HD2	1:D:2915:GLU:HG3	1.92	0.52
1:D:3215:ALA:O	1:D:3220:THR:OG1	2.25	0.52
1:D:3900:GLN:NE2	1:D:3968:TYR:O	2.43	0.52
1:D:3933:PHE:HB3	1:D:3951:PHE:CZ	2.45	0.52
1:D:4090:LYS:HD2	1:D:4123:ILE:HD11	1.90	0.52
1:D:4243:PHE:HA	1:D:4246:GLN:OE1	2.10	0.52
1:C:2195:PRO:HA	1:C:2198:MET:SD	2.50	0.52
1:C:2212:VAL:HG11	1:C:2256:TYR:CE2	2.45	0.52
1:C:2281:ILE:HD12	1:C:2282:ASP:H	1.74	0.52
1:C:2552:ARG:NH1	1:C:2599:GLN:OE1	2.43	0.52
1:C:2622:LEU:O	1:C:2626:LEU:HD12	2.10	0.52
1:C:4920:PHE:CD2	1:C:4925:ILE:HD11	2.45	0.52
1:A:659:TYR:O	1:A:662:TRP:NE1	2.43	0.51
1:A:1293:LEU:HD21	1:A:1594:ARG:HD3	1.91	0.51
1:A:1868:PRO:O	1:A:1872:THR:HG23	2.10	0.51
1:A:2520:HIS:HA	1:A:2523:ASP:OD2	2.09	0.51
1:A:2740:VAL:HG12	1:A:2818:ALA:HB1	1.90	0.51
2:E:40:ARG:NH2	2:E:102:GLU:HG2	2.25	0.51
2:H:52:LYS:HA	2:H:52:LYS:HE2	1.91	0.51
1:B:1153:ILE:HD13	1:B:1160:ILE:HG12	1.91	0.51
1:B:1422:ASP:OD1	1:B:1422:ASP:N	2.43	0.51
1:B:2719:TYR:HD2	1:B:2953:LYS:HB3	1.74	0.51
1:B:3835:LEU:HD22	1:B:3880:PHE:HZ	1.75	0.51
1:B:4869:GLU:OE1	1:B:4869:GLU:N	2.29	0.51
1:B:4880:MET:HE2	1:B:4880:MET:N	2.24	0.51
1:B:4983:HIS:O	3:B:5301:ATP:N6	2.43	0.51
1:D:278:GLN:HA	1:D:328:LYS:HZ3	1.74	0.51
1:D:670:GLU:OE1	1:D:788:LYS:NZ	2.43	0.51
1:D:1153:ILE:HD13	1:D:1160:ILE:HG12	1.91	0.51
1:D:1431:THR:HG22	1:D:1431:THR:O	2.11	0.51
1:D:2107:GLN:NE2	1:D:3683:GLN:OE1	2.30	0.51
1:D:2954:ARG:HH12	1:D:3031:ALA:HA	1.75	0.51
1:D:3364:ARG:O	1:D:3367:LYS:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3756:LYS:HG2	1:D:3760:LYS:HE3	1.91	0.51
1:D:3834:ALA:O	1:D:3838:THR:HG23	2.10	0.51
1:D:4978:HIS:HA	1:D:4982:GLU:HG3	1.92	0.51
1:C:970:LEU:H	1:C:970:LEU:HD12	1.75	0.51
1:C:1475:THR:HA	1:C:1486:SER:HA	1.92	0.51
1:C:1805:GLU:H	1:C:1805:GLU:CD	2.14	0.51
1:C:1868:PRO:O	1:C:1872:THR:HG23	2.10	0.51
1:C:2044:ILE:HG23	1:C:3667:HIS:CD2	2.44	0.51
1:C:2155:LEU:O	1:C:2159:LEU:HG	2.10	0.51
1:C:2224:ARG:HB2	1:C:2225:PHE:CE2	2.44	0.51
1:C:2412:GLU:HG2	1:C:2414:ASN:H	1.76	0.51
1:C:3215:ALA:O	1:C:3220:THR:OG1	2.25	0.51
1:A:283:ARG:HG2	1:A:283:ARG:HH11	1.75	0.51
1:A:414:PHE:CE1	1:A:418:LEU:HD21	2.44	0.51
1:A:1974:ARG:HE	1:A:3642:TYR:HB2	1.75	0.51
1:A:2129:ASP:O	1:A:2133:GLU:HG3	2.10	0.51
1:A:3529:ASP:HB3	1:A:3533:ILE:HD11	1.92	0.51
1:A:3900:GLN:NE2	1:A:3968:TYR:O	2.43	0.51
1:A:4781:GLY:O	1:A:4785:THR:HG23	2.11	0.51
1:A:4910:GLU:HG2	1:A:4911:LEU:HD12	1.92	0.51
1:B:2044:ILE:HG23	1:B:3667:HIS:CD2	2.44	0.51
1:B:2412:GLU:HG2	1:B:2414:ASN:H	1.76	0.51
1:B:2914:LYS:HD2	1:B:2915:GLU:HG3	1.92	0.51
1:B:3553:LEU:HD13	1:B:3593:VAL:HB	1.92	0.51
1:B:4243:PHE:HA	1:B:4246:GLN:OE1	2.10	0.51
1:B:4689:THR:OG1	1:B:4690:GLU:OE1	2.16	0.51
1:D:686:TRP:HA	1:D:779:PRO:HA	1.91	0.51
1:D:1653:LEU:HA	1:D:1656:ARG:HD2	1.92	0.51
1:D:3346:VAL:HG11	1:D:3411:LEU:HB2	1.93	0.51
1:D:3822:ASP:O	1:D:3824:LYS:NZ	2.30	0.51
1:D:4826:ILE:O	1:D:4830:VAL:HG23	2.10	0.51
1:C:874:LEU:HD22	1:C:1049:TYR:CD2	2.45	0.51
1:C:1974:ARG:HE	1:C:3642:TYR:HB2	1.75	0.51
1:C:2107:GLN:NE2	1:C:3683:GLN:OE1	2.31	0.51
1:C:2247:GLN:HA	1:C:2250:MET:HE3	1.92	0.51
1:C:2902:HIS:HD2	1:C:2905:LEU:HG	1.74	0.51
1:C:4664:LEU:HD23	1:C:4665:LYS:HZ2	1.75	0.51
1:C:4824:ARG:HA	1:C:4827:LEU:HG	1.91	0.51
1:A:28:VAL:N	1:A:31:GLU:O	2.31	0.51
1:A:1431:THR:HG22	1:A:1431:THR:O	2.11	0.51
1:A:2212:VAL:HG11	1:A:2256:TYR:CE2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2330:ARG:HA	1:A:2333:ASP:OD2	2.10	0.51
1:A:3228:ALA:HA	1:A:3232:LEU:HD23	1.91	0.51
1:A:3522:LEU:HD22	1:B:1220:GLN:OE1	2.11	0.51
1:A:3553:LEU:HD13	1:A:3593:VAL:HB	1.92	0.51
1:A:3753:PHE:CE2	1:A:4717:ASP:HA	2.44	0.51
1:A:4248:ALA:O	1:A:4252:SER:HB3	2.10	0.51
1:A:4983:HIS:O	3:A:5301:ATP:N6	2.43	0.51
1:B:484:LEU:HD13	1:B:529:LEU:HD22	1.91	0.51
1:B:1868:PRO:O	1:B:1872:THR:HG23	2.10	0.51
1:B:1935:VAL:HA	1:B:1938:GLN:OE1	2.11	0.51
1:B:2441:HIS:O	1:B:2442:LEU:HB3	2.11	0.51
1:B:2754:PHE:CZ	1:B:2930:LEU:HG	2.46	0.51
1:B:2902:HIS:HD2	1:B:2905:LEU:HG	1.74	0.51
1:B:3228:ALA:HA	1:B:3232:LEU:HD23	1.91	0.51
1:B:3825:GLU:OE1	1:B:3828:PHE:N	2.41	0.51
1:B:3933:PHE:HB3	1:B:3951:PHE:CZ	2.45	0.51
1:B:4017:LEU:HD22	1:B:4139:ILE:HG21	1.93	0.51
1:B:4037:ASN:HD22	1:B:5035:GLN:HE22	1.58	0.51
1:B:4952:GLU:OE2	1:B:4956:THR:OG1	2.28	0.51
1:D:119:SER:O	1:D:136:GLY:N	2.33	0.51
1:D:639:ASN:N	1:D:678:GLN:OE1	2.40	0.51
1:D:651:GLY:O	1:D:658:GLN:NE2	2.42	0.51
1:D:1640:HIS:ND1	1:D:1646:ARG:O	2.44	0.51
1:D:1868:PRO:O	1:D:1872:THR:HG23	2.10	0.51
1:D:2155:LEU:O	1:D:2159:LEU:HG	2.10	0.51
1:D:2330:ARG:HA	1:D:2333:ASP:OD2	2.10	0.51
1:D:2583:LEU:HD11	1:D:2614:ILE:HD13	1.91	0.51
1:D:2661:TRP:HB3	1:D:2664:PHE:HB2	1.92	0.51
1:D:4983:HIS:O	3:D:5301:ATP:N6	2.43	0.51
1:C:437:PRO:HB2	1:C:440:ALA:HB3	1.92	0.51
1:C:627:PRO:HA	1:C:629:ARG:HH21	1.75	0.51
1:C:1854:PHE:CZ	1:C:1862:ILE:HD11	2.45	0.51
1:C:2449:GLU:HA	1:C:2452:ARG:HE	1.76	0.51
1:C:2661:TRP:HB3	1:C:2664:PHE:HB2	1.92	0.51
1:C:2752:ASP:HA	1:C:2755:ILE:HG13	1.92	0.51
1:C:3553:LEU:HD13	1:C:3593:VAL:HB	1.92	0.51
1:C:3753:PHE:CE2	1:C:4717:ASP:HA	2.44	0.51
1:A:348:VAL:HG13	1:A:357:LEU:HB3	1.92	0.51
1:A:1478:ASP:OD1	1:A:1479:GLU:N	2.40	0.51
1:A:2107:GLN:NE2	1:A:3680:ALA:HA	2.25	0.51
1:A:2349:ASN:O	1:A:2353:VAL:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2530:MET:SD	1:A:2531:ARG:NH1	2.82	0.51
1:A:2559:LEU:HB3	1:A:2606:CYS:SG	2.50	0.51
1:A:2754:PHE:CZ	1:A:2930:LEU:HG	2.46	0.51
1:A:3346:VAL:HG11	1:A:3411:LEU:HB2	1.93	0.51
1:A:3672:ARG:HD3	1:A:3672:ARG:H	1.74	0.51
2:H:56:ILE:HD12	1:D:1783:VAL:O	2.11	0.51
1:B:218:HIS:HB3	1:B:392:ARG:HH12	1.74	0.51
1:B:884:LEU:O	1:B:888:GLU:HG2	2.10	0.51
1:B:1160:ILE:HB	1:B:1179:PHE:HD2	1.76	0.51
1:B:2129:ASP:O	1:B:2133:GLU:HG3	2.10	0.51
1:B:2752:ASP:HA	1:B:2755:ILE:HG13	1.92	0.51
1:B:3756:LYS:HG2	1:B:3760:LYS:HE3	1.91	0.51
1:D:871:ARG:HD2	1:D:872:GLU:N	2.25	0.51
1:D:2622:LEU:O	1:D:2626:LEU:HD12	2.10	0.51
1:D:3000:LYS:HD2	1:D:3000:LYS:N	2.26	0.51
1:D:3004:PRO:O	1:D:3008:GLN:HG3	2.11	0.51
1:D:3019:SER:HA	1:D:3025:LEU:H	1.76	0.51
1:D:3592:ILE:O	1:D:3595:ARG:HG3	2.09	0.51
1:D:4246:GLN:O	1:D:4250:GLN:NE2	2.43	0.51
1:D:4952:GLU:OE2	1:D:4956:THR:OG1	2.28	0.51
1:C:139:GLU:OE1	1:C:139:GLU:N	2.40	0.51
1:C:218:HIS:HB3	1:C:392:ARG:NH1	2.24	0.51
1:C:294:THR:N	1:C:298:GLY:O	2.35	0.51
1:C:686:TRP:HA	1:C:779:PRO:HA	1.91	0.51
1:C:1422:ASP:N	1:C:1422:ASP:OD1	2.43	0.51
1:C:1579:MET:HE1	1:C:1595:LEU:HD13	1.93	0.51
1:C:2189:LYS:HA	1:C:2192:TYR:HD2	1.75	0.51
1:C:2530:MET:SD	1:C:2531:ARG:NH1	2.82	0.51
1:C:2638:LYS:O	1:C:2642:LYS:HG3	2.10	0.51
1:C:2824:GLU:N	1:C:2824:GLU:OE2	2.44	0.51
1:C:2964:LEU:HD12	1:C:3042:LEU:HD21	1.93	0.51
1:C:3106:MET:HE1	1:C:3129:LEU:HA	1.91	0.51
1:C:3834:ALA:O	1:C:3838:THR:HG23	2.10	0.51
1:A:218:HIS:HB3	1:A:392:ARG:HH12	1.74	0.51
1:A:928:THR:O	1:A:932:LEU:HG	2.11	0.51
1:A:2244:ARG:HH21	1:A:2248:ARG:NH2	2.08	0.51
1:A:2824:GLU:OE2	1:A:2824:GLU:N	2.44	0.51
1:A:3004:PRO:O	1:A:3008:GLN:HG3	2.10	0.51
1:A:3788:GLY:N	1:A:3831:SER:OG	2.39	0.51
1:A:3976:ASN:O	1:A:3980:LEU:HG	2.11	0.51
1:B:221:ARG:NH1	1:B:253:CYS:O	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1431:THR:O	1:B:1431:THR:HG22	2.11	0.51
1:B:1712:TYR:CG	1:B:1840:PRO:HB3	2.46	0.51
1:B:2621:HIS:HA	1:B:2624:ARG:NE	2.26	0.51
1:B:3215:ALA:O	1:B:3220:THR:OG1	2.25	0.51
1:B:3834:ALA:O	1:B:3838:THR:HG23	2.10	0.51
1:D:322:LYS:NZ	1:D:354:GLY:O	2.41	0.51
1:D:819:GLU:OE1	1:D:819:GLU:N	2.42	0.51
1:D:2107:GLN:NE2	1:D:3680:ALA:HA	2.25	0.51
1:D:2768:PHE:O	1:D:2772:GLN:HG3	2.11	0.51
1:D:3553:LEU:HD13	1:D:3593:VAL:HB	1.92	0.51
1:D:4824:ARG:HA	1:D:4827:LEU:HG	1.91	0.51
1:D:4910:GLU:HG2	1:D:4911:LEU:HD12	1.92	0.51
1:D:4920:PHE:CD2	1:D:4925:ILE:HD11	2.45	0.51
1:C:66:CYS:O	1:C:111:HIS:ND1	2.41	0.51
1:C:171:LEU:O	1:C:179:TYR:HA	2.11	0.51
1:C:341:TYR:CZ	1:C:392:ARG:HD3	2.46	0.51
1:C:483:MET:HA	1:C:486:LEU:HG	1.92	0.51
1:C:580:GLU:HB2	1:C:620:LEU:HD13	1.91	0.51
1:C:1075:PHE:HE2	1:C:1194:LEU:HB2	1.74	0.51
1:C:2768:PHE:O	1:C:2772:GLN:HG3	2.11	0.51
1:C:3103:ILE:O	1:C:3107:VAL:HG23	2.11	0.51
1:C:3775:ALA:HA	1:C:3778:MET:SD	2.50	0.51
1:C:4781:GLY:O	1:C:4785:THR:HG23	2.11	0.51
1:A:66:CYS:O	1:A:111:HIS:ND1	2.41	0.51
1:A:118:LEU:HA	1:A:137:LEU:HA	1.91	0.51
1:A:321:GLU:OE2	1:A:321:GLU:N	2.44	0.51
1:A:950:LEU:HD22	1:A:970:LEU:HD23	1.93	0.51
1:A:970:LEU:HD12	1:A:970:LEU:H	1.75	0.51
1:A:2312:MET:HA	1:A:2315:ALA:HB3	1.92	0.51
1:A:2321:ILE:HB	1:A:2418:LEU:HD11	1.93	0.51
1:A:2622:LEU:O	1:A:2626:LEU:HD12	2.10	0.51
1:A:3000:LYS:HD2	1:A:3000:LYS:N	2.26	0.51
1:A:3435:PHE:HD1	1:A:3517:MET:HB2	1.75	0.51
1:A:4005:GLN:HA	1:A:4114:CYS:HA	1.92	0.51
1:A:4680:LYS:O	1:A:4685:GLY:N	2.31	0.51
1:A:4908:GLU:HG2	1:A:4909:TYR:HD1	1.76	0.51
2:E:2:VAL:HG23	2:E:80:TYR:HD2	1.75	0.51
1:B:118:LEU:HA	1:B:137:LEU:HA	1.91	0.51
1:B:171:LEU:O	1:B:179:TYR:HA	2.11	0.51
1:B:483:MET:HA	1:B:486:LEU:HG	1.92	0.51
1:B:928:THR:O	1:B:932:LEU:HG	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2349:ASN:O	1:B:2353:VAL:HG23	2.11	0.51
1:B:2552:ARG:NH1	1:B:2599:GLN:OE1	2.43	0.51
1:B:3551:GLU:O	1:B:3555:ASN:ND2	2.43	0.51
1:B:3775:ALA:HA	1:B:3778:MET:SD	2.50	0.51
1:B:3965:LEU:HA	1:B:3968:TYR:CD2	2.46	0.51
1:B:4005:GLN:HA	1:B:4114:CYS:HA	1.92	0.51
1:B:4826:ILE:O	1:B:4830:VAL:HG23	2.10	0.51
1:B:4920:PHE:CD2	1:B:4925:ILE:HD11	2.45	0.51
1:B:4968:PHE:O	1:B:4974:GLY:HA3	2.09	0.51
1:D:171:LEU:O	1:D:179:TYR:HA	2.11	0.51
1:D:283:ARG:HG2	1:D:283:ARG:HH11	1.75	0.51
1:D:659:TYR:O	1:D:662:TRP:NE1	2.43	0.51
1:D:1805:GLU:H	1:D:1805:GLU:CD	2.14	0.51
1:D:1935:VAL:HA	1:D:1938:GLN:OE1	2.11	0.51
1:D:2349:ASN:O	1:D:2353:VAL:HG23	2.11	0.51
1:D:2412:GLU:HG2	1:D:2414:ASN:H	1.76	0.51
1:D:2552:ARG:NH1	1:D:2599:GLN:OE1	2.43	0.51
1:D:3066:ASN:O	1:D:3070:ILE:HG13	2.11	0.51
1:D:3527:PRO:HB2	1:D:3573:MET:SD	2.51	0.51
1:D:4017:LEU:HD22	1:D:4139:ILE:HG21	1.92	0.51
1:C:497:TYR:HA	1:C:502:HIS:HE1	1.73	0.51
1:C:659:TYR:O	1:C:662:TRP:NE1	2.43	0.51
1:C:928:THR:O	1:C:932:LEU:HG	2.11	0.51
1:C:1206:GLN:HE22	1:C:1233:PRO:HG3	1.74	0.51
1:C:2198:MET:HB3	1:C:2203:MET:SD	2.50	0.51
1:C:2954:ARG:HH12	1:C:3031:ALA:HA	1.75	0.51
1:C:3000:LYS:N	1:C:3000:LYS:HD2	2.26	0.51
1:C:3108:GLU:HA	1:C:3111:ARG:HG2	1.92	0.51
1:C:4067:LYS:HA	1:C:4070:ASP:OD1	2.10	0.51
1:C:4243:PHE:HA	1:C:4246:GLN:OE1	2.10	0.51
1:C:4980:LEU:HB2	1:C:4981:GLU:OE2	2.09	0.51
1:A:3103:ILE:O	1:A:3107:VAL:HG23	2.11	0.51
1:A:3138:PRO:O	1:A:3141:THR:OG1	2.28	0.51
1:A:3384:LYS:HG3	1:A:3386:GLU:HG3	1.92	0.51
1:A:3551:GLU:O	1:A:3555:ASN:ND2	2.43	0.51
1:A:4157:ASP:O	1:A:4161:ARG:HG2	2.10	0.51
1:A:4243:PHE:HA	1:A:4246:GLN:OE1	2.10	0.51
1:A:4246:GLN:O	1:A:4250:GLN:NE2	2.43	0.51
1:A:4826:ILE:O	1:A:4830:VAL:HG23	2.10	0.51
2:G:94:HIS:O	2:G:94:HIS:CG	2.64	0.51
1:B:601:ASP:OD1	1:B:1665:HIS:ND1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1640:HIS:ND1	1:B:1646:ARG:O	2.44	0.51
1:B:2330:ARG:HA	1:B:2333:ASP:OD2	2.10	0.51
1:B:2768:PHE:O	1:B:2772:GLN:HG3	2.11	0.51
1:B:3780:LEU:HD11	1:B:3816:MET:HB3	1.93	0.51
1:B:4248:ALA:O	1:B:4252:SER:HB3	2.10	0.51
1:D:341:TYR:CZ	1:D:392:ARG:HD3	2.46	0.51
1:D:1226:PHE:O	1:D:1827:ARG:NH2	2.43	0.51
1:D:1733:GLU:OE1	1:D:1733:GLU:N	2.27	0.51
1:D:2090:LYS:NZ	1:D:2092:GLN:HG2	2.26	0.51
1:D:2175:GLU:HB2	1:D:2228:MET:CE	2.41	0.51
1:D:2441:HIS:O	1:D:2442:LEU:HB3	2.11	0.51
1:D:2530:MET:SD	1:D:2531:ARG:NH1	2.82	0.51
1:D:2824:GLU:OE2	1:D:2824:GLU:N	2.44	0.51
1:D:2964:LEU:HD12	1:D:3042:LEU:HD21	1.93	0.51
1:D:3775:ALA:HA	1:D:3778:MET:SD	2.50	0.51
1:D:4067:LYS:HA	1:D:4070:ASP:OD1	2.10	0.51
1:C:322:LYS:NZ	1:C:354:GLY:O	2.41	0.51
1:C:1543:GLU:O	1:C:1546:THR:OG1	2.19	0.51
1:C:2244:ARG:HH21	1:C:2248:ARG:NH2	2.08	0.51
1:C:2376:LEU:O	1:C:2380:ILE:HG12	2.11	0.51
1:C:4733:GLY:O	1:C:4737:ILE:HG12	2.11	0.51
1:C:4983:HIS:O	3:C:5301:ATP:N6	2.43	0.51
1:A:365:LYS:NZ	1:A:369:LEU:HG	2.26	0.51
1:A:437:PRO:HB2	1:A:440:ALA:HB3	1.92	0.51
1:A:1434:TYR:HE1	1:A:1517:GLY:HA3	1.75	0.51
1:A:1987:SER:O	1:A:1991:THR:OG1	2.20	0.51
1:A:2412:GLU:HG2	1:A:2414:ASN:H	1.76	0.51
1:A:2441:HIS:O	1:A:2442:LEU:HB3	2.11	0.51
1:A:2449:GLU:HA	1:A:2452:ARG:HE	1.76	0.51
1:A:3527:PRO:HB2	1:A:3573:MET:SD	2.51	0.51
1:A:3994:HIS:HD2	1:A:3998:HIS:CE1	2.29	0.51
1:B:278:GLN:HA	1:B:328:LYS:HZ3	1.76	0.51
1:B:659:TYR:O	1:B:662:TRP:NE1	2.43	0.51
1:B:874:LEU:HD22	1:B:1049:TYR:CD2	2.45	0.51
1:B:1022:VAL:HG22	1:B:1023:PRO:HD2	1.93	0.51
1:B:1206:GLN:HE22	1:B:1233:PRO:HG3	1.74	0.51
1:B:2189:LYS:HA	1:B:2192:TYR:HD2	1.75	0.51
1:B:2463:LEU:HA	1:B:2466:LEU:HD12	1.93	0.51
1:B:2559:LEU:HB3	1:B:2606:CYS:SG	2.50	0.51
1:B:2824:GLU:N	1:B:2824:GLU:OE2	2.44	0.51
1:B:4582:VAL:HG22	1:C:4877:ASP:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:218:HIS:HB3	1:D:392:ARG:HH12	1.74	0.51
1:D:221:ARG:NH1	1:D:253:CYS:O	2.44	0.51
1:D:413:GLN:HE22	1:D:437:PRO:HD3	1.75	0.51
1:D:615:ARG:NH1	1:D:1678:ASN:HA	2.26	0.51
1:D:772:ASN:ND2	1:D:1470:ARG:HD2	2.26	0.51
1:D:2129:ASP:O	1:D:2133:GLU:HG3	2.10	0.51
1:D:3994:HIS:HD2	1:D:3998:HIS:CE1	2.29	0.51
1:D:4781:GLY:O	1:D:4785:THR:HG23	2.11	0.51
1:C:1640:HIS:ND1	1:C:1646:ARG:O	2.44	0.51
1:C:2349:ASN:O	1:C:2353:VAL:HG23	2.11	0.51
1:C:3551:GLU:O	1:C:3555:ASN:ND2	2.43	0.51
1:C:3563:VAL:HG21	1:C:3573:MET:CG	2.39	0.51
1:C:3965:LEU:HA	1:C:3968:TYR:CD2	2.46	0.51
1:C:4952:GLU:OE2	1:C:4956:THR:OG1	2.28	0.51
1:A:221:ARG:NH1	1:A:253:CYS:O	2.44	0.51
1:A:451:TYR:CE2	1:A:474:ARG:HD3	2.46	0.51
1:A:460:GLN:O	1:A:464:LYS:HB2	2.10	0.51
1:A:627:PRO:HA	1:A:629:ARG:HH21	1.75	0.51
1:A:772:ASN:ND2	1:A:1470:ARG:HD2	2.26	0.51
1:A:1160:ILE:HB	1:A:1179:PHE:HD2	1.76	0.51
1:A:1166:GLY:HA2	1:A:1217:CYS:SG	2.51	0.51
1:A:1252:HIS:CE1	1:A:1254:HIS:HB2	2.46	0.51
1:A:1653:LEU:HA	1:A:1656:ARG:HD2	1.92	0.51
1:A:1663:HIS:NE2	1:A:1711:TYR:OH	2.42	0.51
1:A:1935:VAL:HA	1:A:1938:GLN:OE1	2.11	0.51
1:A:2332:LEU:O	1:A:2432:LEU:HD21	2.11	0.51
1:A:2552:ARG:NH1	1:A:2599:GLN:OE1	2.43	0.51
1:A:4037:ASN:HD22	1:A:5035:GLN:HE22	1.58	0.51
1:B:984:LEU:HA	1:B:987:ARG:NE	2.26	0.51
1:B:1252:HIS:CE1	1:B:1254:HIS:HB2	2.46	0.51
1:B:1475:THR:HA	1:B:1486:SER:HA	1.92	0.51
1:B:2538:THR:O	1:B:2542:SER:OG	2.23	0.51
1:B:3900:GLN:NE2	1:B:3968:TYR:O	2.43	0.51
1:B:4908:GLU:HG2	1:B:4909:TYR:HD1	1.76	0.51
1:D:1075:PHE:HE2	1:D:1194:LEU:HB2	1.75	0.51
1:D:1434:TYR:HE1	1:D:1517:GLY:HA3	1.75	0.51
1:D:2376:LEU:O	1:D:2380:ILE:HG12	2.11	0.51
1:D:2449:GLU:HA	1:D:2452:ARG:HE	1.76	0.51
1:D:2588:ARG:NH2	1:D:2591:ARG:HG3	2.26	0.51
1:D:3053:ARG:HA	1:D:3056:LEU:HD13	1.92	0.51
1:D:3432:GLU:O	1:D:3436:ARG:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3529:ASP:HB3	1:D:3533:ILE:HD11	1.92	0.51
1:D:3976:ASN:O	1:D:3980:LEU:HG	2.11	0.51
1:D:4908:GLU:HG2	1:D:4909:TYR:HD1	1.76	0.51
1:C:484:LEU:HD13	1:C:529:LEU:HD22	1.91	0.51
1:C:651:GLY:O	1:C:658:GLN:NE2	2.42	0.51
1:C:2463:LEU:HA	1:C:2466:LEU:HD12	1.93	0.51
1:C:3900:GLN:NE2	1:C:3968:TYR:O	2.43	0.51
1:C:4910:GLU:HG2	1:C:4911:LEU:HD12	1.92	0.51
1:C:5006:GLN:H	1:C:5006:GLN:CD	2.12	0.51
1:A:615:ARG:NH1	1:A:1678:ASN:HA	2.26	0.51
1:A:874:LEU:HD22	1:A:1049:TYR:CD2	2.45	0.51
1:A:879:HIS:NE2	1:A:918:ARG:HA	2.26	0.51
1:A:884:LEU:O	1:A:888:GLU:HG2	2.10	0.51
1:A:984:LEU:HA	1:A:987:ARG:NE	2.26	0.51
1:A:2107:GLN:NE2	1:A:3683:GLN:OE1	2.31	0.51
1:A:2318:TYR:OH	1:A:2416:VAL:O	2.16	0.51
1:A:2638:LYS:O	1:A:2642:LYS:HG3	2.11	0.51
1:A:3965:LEU:HA	1:A:3968:TYR:CD2	2.46	0.51
2:F:40:ARG:HD2	2:F:40:ARG:N	2.26	0.51
1:B:365:LYS:NZ	1:B:369:LEU:HG	2.26	0.51
1:B:437:PRO:HB2	1:B:440:ALA:HB3	1.92	0.51
1:B:460:GLN:O	1:B:464:LYS:HB2	2.10	0.51
1:B:1075:PHE:HE2	1:B:1194:LEU:HB2	1.75	0.51
1:B:1106:ARG:HH21	1:B:1120:LEU:HB3	1.76	0.51
1:B:1253:PRO:O	1:B:1275:ARG:NH1	2.34	0.51
1:B:2321:ILE:HB	1:B:2418:LEU:HD11	1.93	0.51
1:B:2604:GLU:O	1:B:2608:MET:HG2	2.11	0.51
1:B:2661:TRP:HB3	1:B:2664:PHE:HB2	1.92	0.51
1:B:3103:ILE:O	1:B:3107:VAL:HG23	2.11	0.51
1:B:4978:HIS:HA	1:B:4982:GLU:HG3	1.92	0.51
1:D:365:LYS:NZ	1:D:369:LEU:HG	2.26	0.51
1:D:1712:TYR:CG	1:D:1840:PRO:HB3	2.46	0.51
1:D:2560:PRO:O	1:D:2564:LYS:NZ	2.43	0.51
1:D:2828:GLU:OE2	1:D:2935:TYR:OH	2.24	0.51
1:C:601:ASP:OD1	1:C:1665:HIS:ND1	2.43	0.51
1:C:772:ASN:ND2	1:C:1470:ARG:HD2	2.26	0.51
1:C:1252:HIS:CE1	1:C:1254:HIS:HB2	2.46	0.51
1:C:3019:SER:HA	1:C:3025:LEU:H	1.76	0.51
1:C:3053:ARG:HA	1:C:3056:LEU:HD13	1.92	0.51
1:C:3346:VAL:HG11	1:C:3411:LEU:HB2	1.93	0.51
1:C:3410:PRO:O	1:C:3414:ARG:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3835:LEU:HD22	1:C:3880:PHE:HZ	1.75	0.51
1:C:4246:GLN:O	1:C:4250:GLN:NE2	2.43	0.51
1:C:4735:GLU:OE1	1:C:4735:GLU:N	2.39	0.51
1:A:670:GLU:OE1	1:A:788:LYS:NZ	2.43	0.50
1:A:1022:VAL:HG22	1:A:1023:PRO:HD2	1.93	0.50
1:A:1854:PHE:CE1	1:A:1858:ASP:HB3	2.46	0.50
1:A:2004:GLU:N	1:A:2004:GLU:OE1	2.41	0.50
1:A:2090:LYS:NZ	1:A:2092:GLN:HG2	2.26	0.50
1:A:2095:GLN:CD	1:A:2095:GLN:H	2.13	0.50
1:A:2752:ASP:HA	1:A:2755:ILE:HG13	1.92	0.50
1:A:3019:SER:HA	1:A:3025:LEU:H	1.76	0.50
1:A:3432:GLU:O	1:A:3436:ARG:HG3	2.11	0.50
1:A:3756:LYS:HG2	1:A:3760:LYS:HE3	1.91	0.50
1:B:692:TYR:O	1:B:827:LYS:NZ	2.41	0.50
1:B:1131:ARG:NH1	1:B:1138:PRO:O	2.44	0.50
1:B:1854:PHE:CE1	1:B:1858:ASP:HB3	2.46	0.50
1:B:2430:ILE:HG13	1:B:2502:MET:HE1	1.92	0.50
1:B:2437:ALA:HB2	1:B:2509:VAL:HG22	1.93	0.50
1:B:3004:PRO:O	1:B:3008:GLN:HG3	2.10	0.50
1:B:3943:ILE:O	1:B:3948:LYS:NZ	2.41	0.50
1:B:3994:HIS:HD2	1:B:3998:HIS:CE1	2.29	0.50
1:B:4902:GLU:O	1:B:4913:ARG:NH1	2.39	0.50
1:D:1160:ILE:HB	1:D:1179:PHE:HD2	1.75	0.50
1:D:1166:GLY:HA2	1:D:1217:CYS:SG	2.51	0.50
1:D:1252:HIS:CE1	1:D:1254:HIS:HB2	2.46	0.50
1:D:1954:ARG:O	1:D:1958:LEU:HD12	2.10	0.50
1:D:2332:LEU:O	1:D:2432:LEU:HD21	2.11	0.50
1:D:2559:LEU:HB3	1:D:2606:CYS:SG	2.50	0.50
1:D:3103:ILE:O	1:D:3107:VAL:HG23	2.11	0.50
1:D:3108:GLU:HA	1:D:3111:ARG:HG2	1.92	0.50
1:D:3458:PHE:HA	1:D:3461:GLN:NE2	2.27	0.50
1:D:4879:MET:CG	1:C:4578:LEU:HD12	2.38	0.50
1:C:218:HIS:HB3	1:C:392:ARG:HH12	1.74	0.50
1:C:2604:GLU:O	1:C:2608:MET:HG2	2.12	0.50
1:C:3816:MET:N	1:C:3816:MET:SD	2.84	0.50
1:C:4908:GLU:HG2	1:C:4909:TYR:HD1	1.76	0.50
1:A:145:ALA:N	1:A:175:SER:OG	2.44	0.50
1:A:341:TYR:CZ	1:A:392:ARG:HD3	2.46	0.50
1:A:413:GLN:HE22	1:A:437:PRO:HD3	1.75	0.50
1:A:1640:HIS:ND1	1:A:1646:ARG:O	2.44	0.50
1:A:2768:PHE:O	1:A:2772:GLN:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4952:GLU:OE2	1:A:4956:THR:OG1	2.28	0.50
2:E:6:THR:HB	2:E:70:GLN:HE21	1.76	0.50
2:H:25:HIS:CE1	2:H:40:ARG:HA	2.47	0.50
1:B:341:TYR:CZ	1:B:392:ARG:HD3	2.46	0.50
1:B:950:LEU:HD22	1:B:970:LEU:HD23	1.93	0.50
1:B:970:LEU:H	1:B:970:LEU:HD12	1.75	0.50
1:B:979:PRO:O	1:B:983:THR:HG23	2.10	0.50
1:B:1238:PHE:CD1	1:B:1608:MET:HG3	2.47	0.50
1:B:2376:LEU:O	1:B:2380:ILE:HG12	2.11	0.50
1:B:2822:THR:OG1	1:B:2824:GLU:OE2	2.21	0.50
1:B:3236:VAL:HA	1:B:3239:MET:HG3	1.94	0.50
1:B:3346:VAL:HG11	1:B:3411:LEU:HB2	1.93	0.50
1:B:4980:LEU:HA	1:B:4984:ASN:HD22	1.76	0.50
1:D:246:TYR:CD1	1:D:373:LYS:HD3	2.47	0.50
1:D:451:TYR:CE2	1:D:474:ARG:HD3	2.46	0.50
1:D:486:LEU:HD12	1:D:487:VAL:HG23	1.92	0.50
1:D:575:LEU:HD11	1:D:606:LEU:O	2.12	0.50
1:D:874:LEU:HD22	1:D:1049:TYR:CD2	2.45	0.50
1:D:928:THR:O	1:D:932:LEU:HG	2.11	0.50
1:D:990:GLU:OE1	1:D:1024:TYR:HB3	2.12	0.50
1:D:2858:GLN:HB2	1:D:2859:PRO:HD3	1.92	0.50
1:D:4634:GLU:CD	1:D:4637:GLY:H	2.15	0.50
1:D:4735:GLU:OE1	1:D:4735:GLU:N	2.39	0.50
1:C:1712:TYR:CG	1:C:1840:PRO:HB3	2.46	0.50
1:C:1943:LEU:HD13	1:C:2098:VAL:HG22	1.93	0.50
1:C:1951:LEU:HA	1:C:1954:ARG:HG3	1.93	0.50
1:C:2129:ASP:O	1:C:2133:GLU:HG3	2.10	0.50
1:C:2225:PHE:HB2	1:C:2228:MET:HB2	1.93	0.50
1:C:2480:GLY:N	1:C:2484:ALA:O	2.45	0.50
1:C:4248:ALA:O	1:C:4252:SER:HB3	2.10	0.50
1:C:4980:LEU:HA	1:C:4984:ASN:HD22	1.77	0.50
1:A:394:GLN:OE1	1:A:397:GLU:N	2.32	0.50
1:A:688:LEU:HD12	1:A:689:THR:N	2.27	0.50
1:A:2560:PRO:O	1:A:2564:LYS:NZ	2.43	0.50
1:A:2621:HIS:HA	1:A:2624:ARG:NE	2.26	0.50
1:A:3053:ARG:HA	1:A:3056:LEU:HD13	1.92	0.50
1:A:3835:LEU:HD22	1:A:3880:PHE:HZ	1.75	0.50
1:A:4733:GLY:O	1:A:4737:ILE:HG12	2.11	0.50
2:H:23:VAL:HG23	2:H:47:LYS:HD2	1.93	0.50
2:F:17:LYS:HD2	2:F:20:GLN:HB2	1.93	0.50
1:B:172:VAL:HG13	1:B:179:TYR:CE1	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:394:GLN:NE2	1:B:396:GLU:H	2.10	0.50
1:B:615:ARG:NH1	1:B:1678:ASN:HA	2.26	0.50
1:B:1243:PRO:HB3	1:B:1602:PRO:HA	1.94	0.50
1:B:1943:LEU:HD13	1:B:2098:VAL:HG22	1.94	0.50
1:B:2090:LYS:NZ	1:B:2092:GLN:HG2	2.26	0.50
1:B:2555:CYS:HA	1:B:2559:LEU:HG	1.93	0.50
1:B:2588:ARG:NH2	1:B:2591:ARG:HG3	2.26	0.50
1:B:2871:LEU:HD12	1:B:2874:MET:HE2	1.93	0.50
1:B:3132:THR:HA	1:B:3136:LEU:HB2	1.94	0.50
1:B:3766:GLN:HB3	1:B:3769:ARG:HH12	1.77	0.50
1:B:3816:MET:N	1:B:3816:MET:SD	2.84	0.50
1:B:4716:TRP:CZ3	1:B:4717:ASP:HB2	2.46	0.50
1:B:4824:ARG:HA	1:B:4827:LEU:HG	1.91	0.50
1:D:145:ALA:N	1:D:175:SER:OG	2.44	0.50
1:D:681:HIS:N	1:D:784:SER:OG	2.37	0.50
1:D:1108:GLU:OE2	1:D:1108:GLU:N	2.36	0.50
1:D:1708:ARG:NH1	1:D:1837:GLN:HA	2.27	0.50
1:D:2312:MET:HA	1:D:2315:ALA:HB3	1.92	0.50
1:D:2559:LEU:HA	1:D:2562:ILE:HD12	1.93	0.50
1:D:2604:GLU:O	1:D:2608:MET:HG2	2.11	0.50
1:D:3835:LEU:HD22	1:D:3880:PHE:HZ	1.75	0.50
1:D:3897:ASN:OD1	1:D:3898:ASP:N	2.45	0.50
1:D:4161:ARG:HH11	1:D:4161:ARG:HG3	1.77	0.50
1:D:4248:ALA:O	1:D:4252:SER:HB3	2.10	0.50
1:C:221:ARG:NH1	1:C:253:CYS:O	2.44	0.50
1:C:575:LEU:HD11	1:C:606:LEU:O	2.12	0.50
1:C:1291:LEU:HB3	1:C:1595:LEU:HD11	1.92	0.50
1:C:1935:VAL:HA	1:C:1938:GLN:OE1	2.11	0.50
1:C:2441:HIS:O	1:C:2442:LEU:HB3	2.11	0.50
1:C:2559:LEU:HB3	1:C:2606:CYS:SG	2.50	0.50
1:C:4157:ASP:O	1:C:4161:ARG:HG2	2.10	0.50
1:C:4716:TRP:CZ3	1:C:4717:ASP:HB2	2.47	0.50
1:A:257:ARG:O	1:A:284:HIS:NE2	2.35	0.50
1:A:575:LEU:HD11	1:A:606:LEU:O	2.12	0.50
1:A:971:ASP:OD2	1:A:974:HIS:ND1	2.33	0.50
1:A:1106:ARG:HH21	1:A:1120:LEU:HB3	1.76	0.50
1:A:2225:PHE:HB2	1:A:2228:MET:HB2	1.93	0.50
1:A:2970:SER:HB2	1:A:3049:LEU:HD21	1.94	0.50
1:B:278:GLN:HA	1:B:328:LYS:NZ	2.27	0.50
1:B:486:LEU:HD12	1:B:487:VAL:HG23	1.92	0.50
1:B:627:PRO:HA	1:B:629:ARG:HH21	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1291:LEU:HB3	1:B:1595:LEU:HD11	1.92	0.50
1:B:2964:LEU:HD12	1:B:3042:LEU:HD21	1.93	0.50
1:B:3000:LYS:N	1:B:3000:LYS:HD2	2.26	0.50
1:B:3108:GLU:HA	1:B:3111:ARG:HG2	1.92	0.50
1:B:3384:LYS:HG3	1:B:3386:GLU:HG3	1.92	0.50
1:B:3976:ASN:O	1:B:3980:LEU:HG	2.11	0.50
1:B:4067:LYS:HA	1:B:4070:ASP:OD1	2.10	0.50
1:B:4579:PHE:HA	1:C:4880:MET:HE3	1.94	0.50
1:D:758:ARG:NH1	1:D:761:GLY:H	2.08	0.50
1:D:1106:ARG:HH21	1:D:1120:LEU:HB3	1.76	0.50
1:D:1299:GLN:HA	1:D:1545:ASN:HB2	1.93	0.50
1:D:2437:ALA:HB2	1:D:2509:VAL:HG22	1.93	0.50
1:D:2754:PHE:CZ	1:D:2930:LEU:HG	2.46	0.50
1:D:3579:LEU:HD23	1:D:3581:GLY:H	1.77	0.50
1:D:3965:LEU:HA	1:D:3968:TYR:CD2	2.46	0.50
1:D:4207:MET:O	1:D:4211:LYS:HG3	2.11	0.50
1:D:4733:GLY:O	1:D:4737:ILE:HG12	2.11	0.50
1:C:1131:ARG:NH1	1:C:1138:PRO:O	2.44	0.50
1:C:1708:ARG:NH1	1:C:1837:GLN:HA	2.26	0.50
1:C:2437:ALA:HB2	1:C:2509:VAL:HG22	1.93	0.50
1:C:3066:ASN:O	1:C:3070:ILE:HG13	2.11	0.50
1:C:3187:ARG:NH2	1:C:3263:TYR:OH	2.38	0.50
1:C:3525:CYS:HA	1:C:3595:ARG:HH21	1.77	0.50
1:C:4061:PHE:O	1:C:4064:MET:HG2	2.12	0.50
1:C:4161:ARG:HH11	1:C:4161:ARG:HG3	1.77	0.50
1:C:4677:LEU:O	1:C:4681:LEU:HG	2.11	0.50
1:A:246:TYR:CD1	1:A:373:LYS:HD3	2.47	0.50
1:A:1570:LYS:NZ	1:A:1571:ASN:OD1	2.45	0.50
1:A:1708:ARG:NH1	1:A:1837:GLN:HA	2.26	0.50
1:A:1839:VAL:HG22	1:A:1938:GLN:HE22	1.77	0.50
1:A:2175:GLU:HB2	1:A:2228:MET:CE	2.41	0.50
1:A:2437:ALA:HB2	1:A:2509:VAL:HG22	1.93	0.50
1:A:2559:LEU:HA	1:A:2562:ILE:HD12	1.93	0.50
1:A:3066:ASN:O	1:A:3070:ILE:HG13	2.11	0.50
1:A:3319:ILE:O	1:A:3322:ILE:HG22	2.12	0.50
1:A:3780:LEU:HD11	1:A:3816:MET:HB3	1.93	0.50
1:A:4017:LEU:HD22	1:A:4139:ILE:HG21	1.92	0.50
2:E:3:GLN:OE1	2:E:3:GLN:N	2.44	0.50
1:B:1839:VAL:HG22	1:B:1938:GLN:HE22	1.77	0.50
1:B:1854:PHE:CZ	1:B:1862:ILE:HD11	2.45	0.50
1:B:3432:GLU:O	1:B:3436:ARG:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4207:MET:O	1:B:4211:LYS:HG3	2.11	0.50
1:D:172:VAL:HG13	1:D:179:TYR:CE1	2.46	0.50
1:D:688:LEU:HD12	1:D:689:THR:N	2.27	0.50
1:D:1475:THR:HA	1:D:1486:SER:HA	1.92	0.50
1:D:2463:LEU:HA	1:D:2466:LEU:HD12	1.93	0.50
1:D:2621:HIS:HA	1:D:2624:ARG:NE	2.26	0.50
1:D:2638:LYS:O	1:D:2642:LYS:HG3	2.11	0.50
1:D:3525:CYS:HA	1:D:3595:ARG:HH21	1.77	0.50
1:D:3780:LEU:HD11	1:D:3816:MET:HB3	1.92	0.50
1:D:3816:MET:N	1:D:3816:MET:SD	2.84	0.50
1:D:4876:CYS:HA	1:D:4878:ASP:H	1.77	0.50
1:D:4942:GLU:HA	1:D:4945:ASP:OD2	2.12	0.50
1:C:246:TYR:CD1	1:C:373:LYS:HD3	2.47	0.50
1:C:365:LYS:NZ	1:C:369:LEU:HG	2.26	0.50
1:C:688:LEU:HD12	1:C:689:THR:N	2.27	0.50
1:C:984:LEU:HA	1:C:987:ARG:NE	2.26	0.50
1:C:1166:GLY:HA2	1:C:1217:CYS:SG	2.51	0.50
1:C:1243:PRO:HB3	1:C:1602:PRO:HA	1.93	0.50
1:C:1431:THR:O	1:C:1431:THR:HG22	2.11	0.50
1:C:1839:VAL:HG22	1:C:1938:GLN:HE22	1.77	0.50
1:C:2238:TYR:O	1:C:2242:ILE:HG12	2.12	0.50
1:C:2588:ARG:NH2	1:C:2591:ARG:HG3	2.26	0.50
1:C:2754:PHE:CZ	1:C:2930:LEU:HG	2.46	0.50
1:C:2822:THR:OG1	1:C:2824:GLU:OE2	2.21	0.50
1:C:2858:GLN:HB2	1:C:2859:PRO:HD3	1.92	0.50
1:C:2971:GLN:O	1:C:2974:ILE:HG13	2.12	0.50
1:C:3132:THR:HA	1:C:3136:LEU:HB2	1.94	0.50
1:C:3579:LEU:HD23	1:C:3581:GLY:H	1.76	0.50
1:C:3803:SER:HA	1:C:3806:ASN:ND2	2.27	0.50
1:C:4005:GLN:HA	1:C:4114:CYS:HA	1.92	0.50
1:C:4903:ASP:O	1:C:4913:ARG:NH2	2.41	0.50
1:C:4942:GLU:HA	1:C:4945:ASP:OD2	2.12	0.50
1:A:171:LEU:O	1:A:179:TYR:HA	2.11	0.50
1:A:692:TYR:O	1:A:827:LYS:NZ	2.41	0.50
1:A:1608:MET:SD	1:A:1608:MET:N	2.84	0.50
1:A:2970:SER:HA	1:A:2973:PHE:HE2	1.71	0.50
1:A:3684:GLU:CD	1:A:3684:GLU:H	2.15	0.50
1:A:3766:GLN:HB3	1:A:3769:ARG:HH12	1.77	0.50
1:A:3897:ASN:OD1	1:A:3898:ASP:N	2.45	0.50
1:A:4942:GLU:HA	1:A:4945:ASP:OD2	2.11	0.50
1:B:601:ASP:OD1	1:B:1668:ARG:NH2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2481:LYS:HZ3	1:B:2484:ALA:HB3	1.75	0.50
1:B:2638:LYS:O	1:B:2642:LYS:HG3	2.11	0.50
1:B:3066:ASN:O	1:B:3070:ILE:HG13	2.11	0.50
1:B:3458:PHE:HA	1:B:3461:GLN:NE2	2.26	0.50
1:B:3897:ASN:OD1	1:B:3898:ASP:N	2.45	0.50
1:B:4664:LEU:HD23	1:B:4665:LYS:HZ2	1.76	0.50
1:D:394:GLN:NE2	1:D:396:GLU:H	2.10	0.50
1:D:1854:PHE:CE1	1:D:1858:ASP:HB3	2.47	0.50
1:D:2971:GLN:O	1:D:2974:ILE:HG13	2.12	0.50
1:C:226:HIS:CG	1:C:226:HIS:O	2.65	0.50
1:C:615:ARG:NH1	1:C:1678:ASN:HA	2.26	0.50
1:C:758:ARG:NH1	1:C:761:GLY:H	2.08	0.50
1:C:1160:ILE:HB	1:C:1179:PHE:HD2	1.76	0.50
1:C:1238:PHE:CD1	1:C:1608:MET:HG3	2.47	0.50
1:C:3432:GLU:O	1:C:3436:ARG:HG3	2.11	0.50
1:C:3512:ALA:O	1:C:3516:LYS:HG2	2.12	0.50
1:C:3766:GLN:HB3	1:C:3769:ARG:HH12	1.77	0.50
1:A:230:CYS:SG	1:A:231:LEU:N	2.85	0.50
1:A:743:VAL:HG21	1:A:801:LYS:HG3	1.94	0.50
1:A:990:GLU:OE1	1:A:1024:TYR:HB3	2.12	0.50
1:A:1243:PRO:HB3	1:A:1602:PRO:HA	1.93	0.50
1:A:1253:PRO:O	1:A:1275:ARG:NH1	2.34	0.50
1:A:2393:ASP:HB3	1:A:2417:HIS:HA	1.94	0.50
1:A:2971:GLN:O	1:A:2974:ILE:HG13	2.12	0.50
1:B:246:TYR:CD1	1:B:373:LYS:HD3	2.47	0.50
1:B:451:TYR:CE2	1:B:474:ARG:HD3	2.46	0.50
1:B:575:LEU:HD11	1:B:606:LEU:O	2.12	0.50
1:B:614:VAL:HB	1:B:617:ASN:HB2	1.94	0.50
1:B:879:HIS:NE2	1:B:918:ARG:HA	2.26	0.50
1:B:1570:LYS:NZ	1:B:1571:ASN:OD1	2.45	0.50
1:B:2393:ASP:HB3	1:B:2417:HIS:HA	1.94	0.50
1:B:2657:LEU:HB3	1:B:2660:GLY:H	1.77	0.50
1:B:2954:ARG:HH12	1:B:3031:ALA:HA	1.75	0.50
1:B:2970:SER:HB2	1:B:3049:LEU:HD21	1.94	0.50
1:B:3019:SER:HA	1:B:3025:LEU:H	1.76	0.50
1:B:4061:PHE:O	1:B:4064:MET:HG2	2.12	0.50
1:D:1131:ARG:NH1	1:D:1138:PRO:O	2.44	0.50
1:D:1238:PHE:CD1	1:D:1608:MET:HG3	2.46	0.50
1:D:1726:SER:O	1:D:1729:SER:OG	2.24	0.50
1:D:1951:LEU:HA	1:D:1954:ARG:HG3	1.93	0.50
1:D:2238:TYR:O	1:D:2242:ILE:HG12	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3684:GLU:CD	1:D:3684:GLU:H	2.15	0.50
1:C:451:TYR:CE2	1:C:474:ARG:HD3	2.46	0.50
1:C:2621:HIS:HA	1:C:2624:ARG:NE	2.26	0.50
1:C:2699:ALA:O	1:C:2702:CYS:HB3	2.12	0.50
1:C:3458:PHE:HA	1:C:3461:GLN:NE2	2.27	0.50
1:C:3780:LEU:HD11	1:C:3816:MET:HB3	1.93	0.50
1:C:4634:GLU:CD	1:C:4637:GLY:H	2.15	0.50
1:A:35:LEU:HA	1:A:51:PRO:HA	1.93	0.50
1:A:172:VAL:HG13	1:A:179:TYR:CE1	2.46	0.50
1:A:226:HIS:CG	1:A:226:HIS:O	2.65	0.50
1:A:2657:LEU:HB3	1:A:2660:GLY:H	1.77	0.50
1:A:3051:ARG:HH21	1:A:3136:LEU:HD11	1.77	0.50
1:A:3579:LEU:HD23	1:A:3581:GLY:H	1.77	0.50
1:A:3803:SER:HA	1:A:3806:ASN:ND2	2.27	0.50
1:A:4634:GLU:CD	1:A:4637:GLY:H	2.15	0.50
1:A:4978:HIS:HA	1:A:4982:GLU:HG3	1.92	0.50
2:H:7:ILE:N	2:H:71:ARG:O	2.39	0.50
2:G:37:ASP:HB2	1:C:1782:PHE:HD2	1.76	0.50
1:B:226:HIS:CG	1:B:226:HIS:O	2.65	0.50
1:B:921:ASN:HA	1:B:924:MET:HG3	1.94	0.50
1:B:2480:GLY:N	1:B:2484:ALA:O	2.45	0.50
1:B:2699:ALA:O	1:B:2702:CYS:HB3	2.12	0.50
1:B:3512:ALA:O	1:B:3516:LYS:HG2	2.11	0.50
1:D:230:CYS:SG	1:D:231:LEU:N	2.85	0.50
1:D:950:LEU:HD22	1:D:970:LEU:HD23	1.93	0.50
1:D:971:ASP:OD2	1:D:974:HIS:ND1	2.33	0.50
1:D:1839:VAL:HG22	1:D:1938:GLN:HE22	1.77	0.50
1:D:2225:PHE:HB2	1:D:2228:MET:HB2	1.93	0.50
1:C:183:SER:O	1:C:183:SER:OG	2.28	0.50
1:C:278:GLN:HA	1:C:328:LYS:NZ	2.27	0.50
1:C:743:VAL:HG21	1:C:801:LYS:HG3	1.94	0.50
1:C:1643:GLU:H	1:C:1643:GLU:CD	2.15	0.50
1:C:2090:LYS:HZ2	1:C:2092:GLN:HG2	1.77	0.50
1:C:2762:THR:O	1:C:2765:LYS:HB2	2.12	0.50
1:C:2828:GLU:OE1	1:C:2829:GLY:N	2.45	0.50
1:C:3850:GLN:O	1:C:3854:GLU:HG3	2.12	0.50
1:C:3994:HIS:HD2	1:C:3998:HIS:CE1	2.29	0.50
1:C:4876:CYS:HA	1:C:4878:ASP:H	1.77	0.50
1:C:4993:MET:HA	1:C:4996:ILE:HD12	1.94	0.50
1:A:394:GLN:NE2	1:A:396:GLU:H	2.10	0.50
1:A:1238:PHE:CD1	1:A:1608:MET:HG3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1842:LEU:O	1:A:1846:SER:OG	2.29	0.50
1:A:2376:LEU:O	1:A:2380:ILE:HG12	2.11	0.50
1:A:2481:LYS:HZ3	1:A:2484:ALA:HB3	1.76	0.50
1:A:2621:HIS:CG	1:A:2624:ARG:HE	2.30	0.50
1:A:2690:LYS:N	1:A:2690:LYS:HD2	2.27	0.50
1:A:2967:MET:HG3	1:A:3042:LEU:HD22	1.94	0.50
1:A:3132:THR:HA	1:A:3136:LEU:HB2	1.94	0.50
1:A:3149:GLN:HE22	1:A:3150:HIS:CE1	2.30	0.50
1:B:1299:GLN:HA	1:B:1545:ASN:HB2	1.93	0.50
1:B:1708:ARG:NH1	1:B:1837:GLN:HA	2.26	0.50
1:B:2238:TYR:O	1:B:2242:ILE:HG12	2.12	0.50
1:B:2559:LEU:HA	1:B:2562:ILE:HD12	1.93	0.50
1:B:3244:PRO:HB3	1:B:3248:ARG:HD3	1.94	0.50
1:B:3319:ILE:O	1:B:3322:ILE:HG22	2.12	0.50
1:B:3367:LYS:HE2	1:B:3371:LYS:NZ	2.27	0.50
1:B:3513:THR:O	1:B:3517:MET:HG2	2.12	0.50
1:B:3579:LEU:HD23	1:B:3581:GLY:H	1.77	0.50
1:D:984:LEU:HA	1:D:987:ARG:NE	2.26	0.50
1:D:1106:ARG:NE	1:D:1120:LEU:HB3	2.24	0.50
1:D:1648:MET:SD	1:D:1649:ASP:N	2.85	0.50
1:D:1805:GLU:OE1	1:D:1805:GLU:N	2.31	0.50
1:D:1943:LEU:HD13	1:D:2098:VAL:HG22	1.94	0.50
1:D:2393:ASP:HB3	1:D:2417:HIS:HA	1.94	0.50
1:D:2621:HIS:CG	1:D:2624:ARG:HE	2.30	0.50
1:D:3051:ARG:HH21	1:D:3136:LEU:HD11	1.77	0.50
1:D:3367:LYS:HE2	1:D:3371:LYS:NZ	2.27	0.50
1:D:3940:LYS:O	1:D:4002:LYS:NZ	2.44	0.50
1:D:4555:LEU:HD21	1:D:4659:ILE:HG23	1.94	0.50
1:D:4677:LEU:O	1:D:4681:LEU:HG	2.11	0.50
1:C:868:GLU:HA	1:C:871:ARG:HG3	1.94	0.50
1:C:1229:ASN:OD1	1:C:1826:ALA:HA	2.12	0.50
1:C:2321:ILE:HB	1:C:2418:LEU:HD11	1.93	0.50
1:C:2555:CYS:HA	1:C:2559:LEU:HG	1.93	0.50
1:C:2559:LEU:HA	1:C:2562:ILE:HD12	1.93	0.50
1:C:2621:HIS:CG	1:C:2624:ARG:HE	2.30	0.50
1:A:463:GLU:OE1	1:A:463:GLU:N	2.36	0.49
1:A:637:LEU:HD21	1:A:1696:HIS:ND1	2.27	0.49
1:A:975:VAL:HG21	1:A:1048:GLY:HA2	1.94	0.49
1:A:1131:ARG:NH1	1:A:1138:PRO:O	2.44	0.49
1:A:1648:MET:SD	1:A:1649:ASP:N	2.85	0.49
1:A:1712:TYR:CG	1:A:1840:PRO:HB3	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1943:LEU:HD13	1:A:2098:VAL:HG22	1.94	0.49
1:A:2165:LEU:HD21	1:A:2174:GLU:HB3	1.93	0.49
1:A:2247:GLN:HA	1:A:2250:MET:HE3	1.93	0.49
1:A:2463:LEU:HA	1:A:2466:LEU:HD12	1.93	0.49
1:A:2555:CYS:HA	1:A:2559:LEU:HG	1.93	0.49
1:A:3174:SER:O	1:A:3177:THR:OG1	2.24	0.49
1:A:3367:LYS:HE2	1:A:3371:LYS:NZ	2.27	0.49
1:A:4716:TRP:CZ3	1:A:4717:ASP:HB2	2.46	0.49
2:G:25:HIS:HB3	2:G:40:ARG:NH1	2.27	0.49
1:B:257:ARG:O	1:B:284:HIS:NE2	2.35	0.49
1:B:772:ASN:ND2	1:B:1470:ARG:HD2	2.26	0.49
1:B:990:GLU:OE1	1:B:1024:TYR:HB3	2.12	0.49
1:B:3344:PRO:O	1:B:3347:SER:OG	2.23	0.49
1:B:3525:CYS:HA	1:B:3595:ARG:HH21	1.77	0.49
1:B:3527:PRO:HB2	1:B:3573:MET:SD	2.51	0.49
1:B:4673:ARG:HH22	1:B:4701:TRP:HB3	1.77	0.49
1:D:437:PRO:HB2	1:D:440:ALA:HB3	1.92	0.49
1:D:551:LEU:HD23	1:D:560:ILE:HG22	1.94	0.49
1:D:868:GLU:HA	1:D:871:ARG:HG3	1.94	0.49
1:D:1243:PRO:HB3	1:D:1602:PRO:HA	1.93	0.49
1:D:3513:THR:O	1:D:3517:MET:HG2	2.12	0.49
1:D:4061:PHE:O	1:D:4064:MET:HG2	2.12	0.49
1:C:103:TYR:OH	1:C:167:ASP:OD2	2.30	0.49
1:C:601:ASP:OD1	1:C:1668:ARG:NH2	2.45	0.49
1:C:838:HIS:ND1	1:C:1201:HIS:HB2	2.27	0.49
1:C:1106:ARG:HH21	1:C:1120:LEU:HB3	1.76	0.49
1:C:1608:MET:SD	1:C:1608:MET:N	2.84	0.49
1:C:3319:ILE:O	1:C:3322:ILE:HG22	2.12	0.49
1:C:3629:ARG:HA	1:C:3629:ARG:NE	2.27	0.49
1:C:3874:VAL:HG13	1:C:3875:MET:HE2	1.93	0.49
1:C:3976:ASN:O	1:C:3980:LEU:HG	2.11	0.49
1:A:278:GLN:HA	1:A:328:LYS:NZ	2.27	0.49
1:A:909:ASN:O	1:A:913:LEU:N	2.42	0.49
1:A:1299:GLN:HA	1:A:1545:ASN:HB2	1.93	0.49
1:A:2588:ARG:NH2	1:A:2591:ARG:HG3	2.26	0.49
1:A:2964:LEU:HD12	1:A:3042:LEU:HD21	1.93	0.49
1:A:3816:MET:N	1:A:3816:MET:SD	2.84	0.49
1:A:4880:MET:HE2	1:A:4880:MET:N	2.27	0.49
1:B:1166:GLY:HA2	1:B:1217:CYS:SG	2.51	0.49
1:B:1648:MET:SD	1:B:1649:ASP:N	2.85	0.49
1:B:1663:HIS:NE2	1:B:1711:TYR:OH	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2449:GLU:HA	1:B:2452:ARG:HE	1.76	0.49
1:B:2971:GLN:O	1:B:2974:ILE:HG13	2.12	0.49
1:B:3226:GLU:O	1:B:3227:ARG:HG3	2.12	0.49
1:B:4677:LEU:O	1:B:4681:LEU:HG	2.12	0.49
1:D:226:HIS:CG	1:D:226:HIS:O	2.65	0.49
1:D:515:TRP:HA	1:D:518:ILE:HD12	1.94	0.49
1:D:637:LEU:HD21	1:D:1696:HIS:ND1	2.27	0.49
1:D:1106:ARG:NH2	1:D:1120:LEU:HD13	2.27	0.49
1:D:1663:HIS:NE2	1:D:1711:TYR:OH	2.42	0.49
1:D:1695:LEU:O	1:D:1699:GLU:HG2	2.13	0.49
1:D:2481:LYS:HZ3	1:D:2484:ALA:HB3	1.77	0.49
1:D:2699:ALA:O	1:D:2702:CYS:HB3	2.12	0.49
1:D:2879:ALA:HB2	1:D:2923:ALA:HB2	1.94	0.49
1:C:614:VAL:HB	1:C:617:ASN:HB2	1.94	0.49
1:C:1648:MET:SD	1:C:1649:ASP:N	2.85	0.49
1:C:1681:VAL:O	1:C:1685:LEU:HG	2.12	0.49
1:C:2332:LEU:O	1:C:2432:LEU:HD21	2.11	0.49
1:C:2657:LEU:HB3	1:C:2660:GLY:H	1.77	0.49
1:C:4207:MET:O	1:C:4211:LYS:HG3	2.11	0.49
1:C:4673:ARG:HH22	1:C:4701:TRP:HB3	1.77	0.49
1:A:4823:LEU:HD13	1:B:4843:LEU:HD13	1.94	0.49
1:A:5019:TRP:HE3	1:A:5021:PHE:HE1	1.60	0.49
2:H:88:PRO:CB	1:D:623:GLU:OE1	2.61	0.49
1:B:103:TYR:OH	1:B:167:ASP:OD2	2.30	0.49
1:B:283:ARG:HA	1:B:290:TYR:HA	1.94	0.49
1:B:688:LEU:HD12	1:B:689:THR:N	2.27	0.49
1:B:2143:THR:OG1	1:B:3651:ASN:ND2	2.46	0.49
1:B:4161:ARG:HH11	1:B:4161:ARG:HG3	1.77	0.49
1:B:4189:ARG:NH1	1:B:4190:ILE:O	2.45	0.49
1:B:4993:MET:HA	1:B:4996:ILE:HD12	1.94	0.49
1:D:321:GLU:N	1:D:321:GLU:OE2	2.44	0.49
1:D:743:VAL:HG21	1:D:801:LYS:HG3	1.94	0.49
1:D:879:HIS:NE2	1:D:918:ARG:HA	2.26	0.49
1:D:1579:MET:HE1	1:D:1595:LEU:HD13	1.94	0.49
1:D:2165:LEU:HD21	1:D:2174:GLU:HB3	1.93	0.49
1:D:2555:CYS:HA	1:D:2559:LEU:HG	1.93	0.49
1:D:2657:LEU:HB3	1:D:2660:GLY:H	1.77	0.49
1:D:2967:MET:HG3	1:D:3042:LEU:HD22	1.94	0.49
1:D:4716:TRP:CZ3	1:D:4717:ASP:HB2	2.46	0.49
1:C:35:LEU:HA	1:C:51:PRO:HA	1.94	0.49
1:C:172:VAL:HG13	1:C:179:TYR:CE1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:637:LEU:HD21	1:C:1696:HIS:ND1	2.28	0.49
1:C:921:ASN:HA	1:C:924:MET:HG3	1.94	0.49
1:C:1022:VAL:HG22	1:C:1023:PRO:HD2	1.93	0.49
1:C:1801:ALA:O	1:C:1802:ILE:HD13	2.13	0.49
1:C:2690:LYS:HD2	1:C:2690:LYS:N	2.27	0.49
1:C:3236:VAL:HA	1:C:3239:MET:HG3	1.94	0.49
1:C:3367:LYS:HE2	1:C:3371:LYS:NZ	2.27	0.49
1:C:3527:PRO:HB2	1:C:3573:MET:SD	2.51	0.49
1:C:4017:LEU:HD22	1:C:4139:ILE:HG21	1.92	0.49
1:A:464:LYS:O	1:A:468:LEU:HG	2.13	0.49
1:A:1782:PHE:HD2	2:E:37:ASP:HB2	1.76	0.49
1:A:2889:LYS:HD2	1:A:2890:LYS:N	2.27	0.49
1:A:3458:PHE:HA	1:A:3461:GLN:NE2	2.26	0.49
1:A:4161:ARG:HH11	1:A:4161:ARG:HG3	1.77	0.49
1:B:743:VAL:HG21	1:B:801:LYS:HG3	1.94	0.49
1:B:896:VAL:HB	1:B:901:LYS:HE2	1.95	0.49
1:B:924:MET:O	1:B:928:THR:HG23	2.12	0.49
1:B:975:VAL:HG21	1:B:1048:GLY:HA2	1.94	0.49
1:B:1106:ARG:NH2	1:B:1120:LEU:HD13	2.28	0.49
1:B:2165:LEU:HD21	1:B:2174:GLU:HB3	1.93	0.49
1:B:2530:MET:SD	1:B:2531:ARG:NH1	2.82	0.49
1:B:2560:PRO:O	1:B:2564:LYS:NZ	2.43	0.49
1:B:2762:THR:O	1:B:2765:LYS:HB2	2.12	0.49
1:B:3684:GLU:CD	1:B:3684:GLU:H	2.15	0.49
1:B:3803:SER:HA	1:B:3806:ASN:ND2	2.27	0.49
1:B:4823:LEU:HD13	1:C:4843:LEU:HD22	1.94	0.49
1:D:463:GLU:OE1	1:D:463:GLU:N	2.36	0.49
1:D:601:ASP:OD1	1:D:1668:ARG:NH2	2.45	0.49
1:D:1022:VAL:HG22	1:D:1023:PRO:HD2	1.93	0.49
1:D:2321:ILE:HB	1:D:2418:LEU:HD11	1.93	0.49
1:D:3132:THR:HA	1:D:3136:LEU:HB2	1.94	0.49
1:D:3226:GLU:O	1:D:3227:ARG:HG3	2.12	0.49
1:D:4573:ILE:O	1:D:4577:LEU:HG	2.13	0.49
1:D:4776:GLN:HA	1:D:4779:LYS:HE2	1.95	0.49
1:D:5019:TRP:HE3	1:D:5021:PHE:HE1	1.60	0.49
1:C:924:MET:O	1:C:928:THR:HG23	2.12	0.49
1:C:1299:GLN:HA	1:C:1545:ASN:HB2	1.93	0.49
1:C:1695:LEU:O	1:C:1699:GLU:HG2	2.13	0.49
1:C:1854:PHE:CE1	1:C:1858:ASP:HB3	2.46	0.49
1:C:2090:LYS:NZ	1:C:2092:GLN:HG2	2.26	0.49
1:C:2143:THR:OG1	1:C:3651:ASN:ND2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2393:ASP:HB3	1:C:2417:HIS:HA	1.94	0.49
1:A:551:LEU:HD23	1:A:560:ILE:HG22	1.94	0.49
1:A:1643:GLU:H	1:A:1643:GLU:CD	2.15	0.49
1:A:2090:LYS:HZ2	1:A:2092:GLN:HG2	1.77	0.49
1:A:2238:TYR:O	1:A:2242:ILE:HG12	2.12	0.49
1:A:2604:GLU:O	1:A:2608:MET:HG2	2.12	0.49
1:A:2699:ALA:O	1:A:2702:CYS:HB3	2.12	0.49
1:A:3256:LEU:HB3	1:A:3266:MET:HE2	1.94	0.49
1:A:3512:ALA:O	1:A:3516:LYS:HG2	2.11	0.49
1:A:3525:CYS:HA	1:A:3595:ARG:HH21	1.77	0.49
1:A:3896:ASN:O	1:A:3900:GLN:HG3	2.12	0.49
2:H:2:VAL:HG23	2:H:80:TYR:HD2	1.78	0.49
2:G:90:ILE:HG12	1:C:1687:SER:HB3	1.93	0.49
1:B:564:LEU:O	1:B:568:LEU:HG	2.13	0.49
1:B:803:LEU:HD12	1:B:804:PRO:O	2.12	0.49
1:B:838:HIS:ND1	1:B:1201:HIS:HB2	2.27	0.49
1:B:1951:LEU:HA	1:B:1954:ARG:HG3	1.93	0.49
1:B:2332:LEU:O	1:B:2432:LEU:HD21	2.11	0.49
1:B:2440:MET:O	1:B:2444:GLN:HG3	2.13	0.49
1:B:2828:GLU:OE1	1:B:2829:GLY:N	2.44	0.49
1:B:3149:GLN:HE22	1:B:3150:HIS:CE1	2.30	0.49
1:B:3174:SER:O	1:B:3177:THR:OG1	2.24	0.49
1:B:3372:VAL:HG21	1:B:3401:LEU:HD21	1.94	0.49
1:B:3629:ARG:NE	1:B:3629:ARG:HA	2.27	0.49
1:B:4634:GLU:CD	1:B:4637:GLY:H	2.15	0.49
1:B:4733:GLY:O	1:B:4737:ILE:HG12	2.11	0.49
1:D:838:HIS:ND1	1:D:1201:HIS:HB2	2.27	0.49
1:D:1681:VAL:O	1:D:1685:LEU:HG	2.12	0.49
1:D:2480:GLY:N	1:D:2484:ALA:O	2.45	0.49
1:D:2913:ALA:HA	1:D:2916:LYS:HG2	1.94	0.49
1:D:2970:SER:HB2	1:D:3049:LEU:HD21	1.94	0.49
1:D:3149:GLN:HE22	1:D:3150:HIS:CE1	2.30	0.49
1:D:4993:MET:HA	1:D:4996:ILE:HD12	1.94	0.49
1:C:145:ALA:N	1:C:175:SER:OG	2.44	0.49
1:C:230:CYS:SG	1:C:231:LEU:N	2.85	0.49
1:C:879:HIS:NE2	1:C:918:ARG:HA	2.26	0.49
1:C:950:LEU:HD22	1:C:970:LEU:HD23	1.93	0.49
1:C:1227:ALA:HA	1:C:1230:MET:HG2	1.95	0.49
1:C:2970:SER:HB2	1:C:3049:LEU:HD21	1.94	0.49
1:C:3051:ARG:HH21	1:C:3136:LEU:HD11	1.77	0.49
1:C:3226:GLU:O	1:C:3227:ARG:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3534:MET:N	1:C:3534:MET:SD	2.86	0.49
1:C:4573:ILE:O	1:C:4577:LEU:HG	2.12	0.49
1:A:1106:ARG:NH2	1:A:1120:LEU:HD13	2.27	0.49
1:A:1648:MET:SD	1:A:1652:GLU:HB2	2.53	0.49
1:A:1695:LEU:O	1:A:1699:GLU:HG2	2.13	0.49
1:A:2419:GLY:O	1:A:2423:MET:HG2	2.13	0.49
2:H:93:PRO:O	2:H:94:HIS:ND1	2.46	0.49
1:B:464:LYS:O	1:B:468:LEU:HG	2.13	0.49
1:B:868:GLU:HA	1:B:871:ARG:HG3	1.94	0.49
1:B:1648:MET:SD	1:B:1652:GLU:HB2	2.53	0.49
1:B:2225:PHE:HB2	1:B:2228:MET:HB2	1.93	0.49
1:B:2698:MET:O	1:B:2701:PRO:HD2	2.13	0.49
1:B:3522:LEU:HD22	1:C:1220:GLN:CD	2.32	0.49
1:B:3562:LYS:HD3	1:B:3562:LYS:HA	1.60	0.49
1:B:3896:ASN:O	1:B:3900:GLN:HG3	2.12	0.49
1:B:4876:CYS:HA	1:B:4878:ASP:H	1.77	0.49
1:D:464:LYS:O	1:D:468:LEU:HG	2.13	0.49
1:D:1570:LYS:NZ	1:D:1571:ASN:OD1	2.45	0.49
1:D:1643:GLU:H	1:D:1643:GLU:CD	2.15	0.49
1:D:2189:LYS:HZ1	1:D:2193:GLN:HB2	1.78	0.49
1:D:2828:GLU:OE1	1:D:2829:GLY:N	2.45	0.49
1:D:3319:ILE:O	1:D:3322:ILE:HG22	2.12	0.49
1:D:3512:ALA:O	1:D:3516:LYS:HG2	2.12	0.49
1:C:455:PRO:HB3	1:C:467:LYS:HG2	1.95	0.49
1:C:463:GLU:OE1	1:C:463:GLU:N	2.36	0.49
1:C:551:LEU:HD23	1:C:560:ILE:HG22	1.94	0.49
1:C:731:THR:O	1:C:765:GLN:NE2	2.46	0.49
1:C:990:GLU:OE1	1:C:1024:TYR:HB3	2.12	0.49
1:C:1648:MET:SD	1:C:1652:GLU:HB2	2.53	0.49
1:C:2879:ALA:HB2	1:C:2923:ALA:HB2	1.94	0.49
1:C:2889:LYS:HD2	1:C:2890:LYS:N	2.27	0.49
1:C:3897:ASN:OD1	1:C:3898:ASP:N	2.45	0.49
1:C:4732:PHE:HB3	1:C:4737:ILE:HD11	1.95	0.49
1:A:978:THR:OG1	1:A:981:GLN:OE1	2.30	0.49
1:A:1951:LEU:HA	1:A:1954:ARG:HG3	1.93	0.49
1:A:2358:ILE:HG13	1:A:2359:ARG:NE	2.28	0.49
1:A:2762:THR:O	1:A:2765:LYS:HB2	2.12	0.49
1:A:2879:ALA:HB2	1:A:2923:ALA:HB2	1.94	0.49
1:A:3171:SER:OG	1:A:3172:ILE:N	2.46	0.49
1:A:3226:GLU:O	1:A:3227:ARG:HG3	2.12	0.49
1:A:3313:ASN:HB2	1:A:3350:ARG:HE	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4555:LEU:HD21	1:A:4659:ILE:HG23	1.94	0.49
1:A:4677:LEU:O	1:A:4681:LEU:HG	2.12	0.49
1:A:4980:LEU:HA	1:A:4984:ASN:HD22	1.76	0.49
2:E:66:MET:HE3	2:E:70:GLN:HE21	1.77	0.49
1:B:230:CYS:SG	1:B:231:LEU:N	2.85	0.49
1:B:233:ILE:HA	1:B:245:VAL:HG12	1.95	0.49
1:B:551:LEU:HD23	1:B:560:ILE:HG22	1.94	0.49
1:B:2480:GLY:O	1:B:2481:LYS:HG2	2.13	0.49
1:B:2967:MET:HG3	1:B:3042:LEU:HD22	1.94	0.49
1:B:3313:ASN:HB2	1:B:3350:ARG:HE	1.78	0.49
1:B:3534:MET:SD	1:B:3534:MET:N	2.86	0.49
1:B:4573:ILE:O	1:B:4577:LEU:HG	2.13	0.49
1:D:35:LEU:HA	1:D:51:PRO:HA	1.93	0.49
1:D:278:GLN:HA	1:D:328:LYS:NZ	2.27	0.49
1:D:924:MET:O	1:D:928:THR:HG23	2.12	0.49
1:D:2516:ASP:HA	1:D:2519:LEU:HD12	1.95	0.49
1:C:321:GLU:OE2	1:C:321:GLU:N	2.44	0.49
1:C:515:TRP:HA	1:C:518:ILE:HD12	1.94	0.49
1:C:1759:ARG:NH1	1:C:1760:HIS:O	2.46	0.49
1:C:2440:MET:O	1:C:2444:GLN:HG3	2.13	0.49
1:C:2698:MET:O	1:C:2701:PRO:HD2	2.13	0.49
1:A:601:ASP:OD1	1:A:1668:ARG:NH2	2.45	0.49
1:A:614:VAL:HB	1:A:617:ASN:HB2	1.94	0.49
1:A:1106:ARG:NE	1:A:1120:LEU:HB3	2.24	0.49
1:A:2828:GLU:OE1	1:A:2829:GLY:N	2.45	0.49
1:A:2909:ASP:OD1	1:A:2909:ASP:N	2.46	0.49
1:A:3236:VAL:HA	1:A:3239:MET:HG3	1.94	0.49
1:A:3875:MET:HE2	1:A:3875:MET:N	2.28	0.49
1:A:4207:MET:O	1:A:4211:LYS:HG3	2.11	0.49
1:A:4993:MET:HA	1:A:4996:ILE:HD12	1.94	0.49
2:H:24:VAL:O	2:H:46:PHE:N	2.44	0.49
2:F:105:LYS:NZ	2:F:106:LEU:O	2.39	0.49
1:B:145:ALA:N	1:B:175:SER:OG	2.44	0.49
1:B:978:THR:OG1	1:B:981:GLN:OE1	2.30	0.49
1:B:1619:ARG:HH21	1:B:1626:TRP:HE1	1.60	0.49
1:B:1681:VAL:O	1:B:1685:LEU:HG	2.12	0.49
1:B:2107:GLN:HG3	1:B:3683:GLN:NE2	2.28	0.49
1:B:2312:MET:O	1:B:2316:LYS:N	2.46	0.49
1:B:2742:THR:HG23	1:B:2745:VAL:HB	1.95	0.49
1:B:2889:LYS:HD2	1:B:2890:LYS:N	2.27	0.49
1:B:3850:GLN:O	1:B:3854:GLU:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:66:CYS:O	1:D:111:HIS:ND1	2.41	0.49
1:D:2143:THR:OG1	1:D:3651:ASN:ND2	2.46	0.49
1:D:4664:LEU:HD23	1:D:4665:LYS:HZ2	1.78	0.49
1:D:4677:LEU:HD12	1:D:4678:ALA:N	2.28	0.49
1:C:394:GLN:NE2	1:C:396:GLU:H	2.10	0.49
1:C:464:LYS:O	1:C:468:LEU:HG	2.13	0.49
1:C:978:THR:OG1	1:C:981:GLN:OE1	2.30	0.49
1:C:1253:PRO:O	1:C:1275:ARG:NH1	2.34	0.49
1:C:2107:GLN:HG3	1:C:3683:GLN:NE2	2.28	0.49
1:C:2165:LEU:HD21	1:C:2174:GLU:HB3	1.93	0.49
1:C:2909:ASP:N	1:C:2909:ASP:OD1	2.46	0.49
1:A:455:PRO:HB3	1:A:467:LYS:HG2	1.95	0.49
1:A:1220:GLN:CG	1:D:3522:LEU:HB3	2.42	0.49
1:A:1229:ASN:OD1	1:A:1826:ALA:HA	2.12	0.49
1:A:2715:VAL:HG13	1:A:2953:LYS:HB2	1.95	0.49
1:A:3372:VAL:HG21	1:A:3401:LEU:HD21	1.94	0.49
1:A:3513:THR:O	1:A:3517:MET:HG2	2.12	0.49
2:E:63:VAL:HG22	2:E:101:VAL:HG11	1.94	0.49
2:H:7:ILE:HD12	2:H:72:ALA:HA	1.94	0.49
1:B:455:PRO:HB3	1:B:467:LYS:HG2	1.95	0.49
1:B:1106:ARG:NE	1:B:1120:LEU:HB3	2.24	0.49
1:B:1759:ARG:NH1	1:B:1760:HIS:O	2.46	0.49
1:B:1801:ALA:O	1:B:1802:ILE:HD13	2.13	0.49
1:B:2463:LEU:HB2	1:B:2510:TYR:CE1	2.48	0.49
1:B:2715:VAL:HG13	1:B:2953:LYS:HB2	1.95	0.49
1:B:3051:ARG:HH21	1:B:3136:LEU:HD11	1.77	0.49
1:B:4942:GLU:HA	1:B:4945:ASP:OD2	2.11	0.49
1:D:564:LEU:O	1:D:568:LEU:HG	2.13	0.49
1:D:3850:GLN:O	1:D:3854:GLU:HG3	2.12	0.49
1:D:4933:GLN:O	1:D:4937:ILE:HG12	2.13	0.49
1:D:4980:LEU:HA	1:D:4984:ASN:HD22	1.76	0.49
1:C:3171:SER:OG	1:C:3172:ILE:N	2.46	0.49
1:C:3534:MET:O	1:C:3538:THR:HG23	2.13	0.49
1:C:3896:ASN:O	1:C:3900:GLN:HG3	2.12	0.49
1:C:4680:LYS:O	1:C:4685:GLY:N	2.31	0.49
1:C:4902:GLU:OE2	1:C:4902:GLU:N	2.26	0.49
1:A:731:THR:O	1:A:765:GLN:NE2	2.46	0.49
1:A:1040:CYS:HA	1:A:1043:VAL:HB	1.95	0.49
1:A:2452:ARG:HH11	1:B:175:SER:HA	1.75	0.49
1:A:2463:LEU:HB2	1:A:2510:TYR:CE1	2.48	0.49
1:A:2480:GLY:N	1:A:2484:ALA:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3850:GLN:O	1:A:3854:GLU:HG3	2.12	0.49
1:B:213:TYR:CE1	1:B:337:PRO:HB2	2.48	0.49
1:B:2879:ALA:HB2	1:B:2923:ALA:HB2	1.94	0.49
1:B:3145:GLN:CG	1:B:3196:ARG:HE	2.25	0.49
1:B:3805:LEU:O	1:B:3890:LEU:HD22	2.13	0.49
1:B:4555:LEU:HD21	1:B:4659:ILE:HG23	1.94	0.49
1:B:4677:LEU:HD12	1:B:4678:ALA:N	2.28	0.49
1:D:597:HIS:HB3	1:D:1661:ARG:HH11	1.78	0.49
1:D:1007:TYR:O	1:D:1017:ARG:NE	2.39	0.49
1:D:1229:ASN:OD1	1:D:1826:ALA:HA	2.12	0.49
1:D:1801:ALA:O	1:D:1802:ILE:HD13	2.12	0.49
1:D:2107:GLN:HG3	1:D:3683:GLN:NE2	2.28	0.49
1:D:2419:GLY:O	1:D:2423:MET:HG2	2.12	0.49
1:D:2690:LYS:N	1:D:2690:LYS:HD2	2.27	0.49
1:D:2762:THR:O	1:D:2765:LYS:HB2	2.12	0.49
1:D:3803:SER:HA	1:D:3806:ASN:ND2	2.27	0.49
1:D:4092:ASP:HA	1:D:4095:LYS:HE2	1.95	0.49
1:D:4732:PHE:HB3	1:D:4737:ILE:HD11	1.95	0.49
1:C:803:LEU:HD12	1:C:804:PRO:O	2.12	0.49
1:C:935:LEU:HD22	1:C:987:ARG:CZ	2.43	0.49
1:C:1106:ARG:NH2	1:C:1120:LEU:HD13	2.27	0.49
1:C:1724:CYS:HA	1:C:1851:MET:HE1	1.93	0.49
1:C:2243:SER:OG	1:C:2245:GLN:OE1	2.18	0.49
1:C:2516:ASP:HA	1:C:2519:LEU:HD12	1.95	0.49
1:C:2967:MET:HG3	1:C:3042:LEU:HD22	1.94	0.49
1:C:3822:ASP:O	1:C:3824:LYS:NZ	2.30	0.49
1:C:3927:GLN:HG2	1:C:3992:PHE:CE2	2.48	0.49
1:A:233:ILE:HA	1:A:245:VAL:HG12	1.95	0.48
1:A:355:LEU:HB3	1:A:378:LEU:HD22	1.95	0.48
1:A:803:LEU:HD12	1:A:804:PRO:O	2.12	0.48
1:A:1007:TYR:O	1:A:1017:ARG:NE	2.39	0.48
1:A:1077:ALA:HB3	1:A:1189:LEU:HD22	1.94	0.48
1:A:2143:THR:OG1	1:A:3651:ASN:ND2	2.46	0.48
1:A:3611:HIS:CE1	1:A:3613:TYR:HH	2.31	0.48
1:A:3805:LEU:O	1:A:3890:LEU:HD22	2.13	0.48
1:A:4061:PHE:O	1:A:4064:MET:HG2	2.12	0.48
1:A:4582:VAL:HG22	1:B:4877:ASP:HA	1.95	0.48
1:A:4673:ARG:HH22	1:A:4701:TRP:HB3	1.77	0.48
1:A:4776:GLN:HA	1:A:4779:LYS:HE2	1.95	0.48
1:A:4876:CYS:HA	1:A:4878:ASP:H	1.77	0.48
2:H:42:ARG:NE	2:H:42:ARG:HA	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:74:LEU:HD12	2:H:101:VAL:HG21	1.94	0.48
2:F:94:HIS:O	2:F:94:HIS:CG	2.66	0.48
1:B:1040:CYS:HA	1:B:1043:VAL:HB	1.95	0.48
1:B:2621:HIS:CG	1:B:2624:ARG:HE	2.30	0.48
1:B:2690:LYS:N	1:B:2690:LYS:HD2	2.27	0.48
1:B:2761:TYR:O	1:B:2765:LYS:HG2	2.13	0.48
1:D:455:PRO:HB3	1:D:467:LYS:HG2	1.95	0.48
1:D:614:VAL:HB	1:D:617:ASN:HB2	1.94	0.48
1:D:935:LEU:HD22	1:D:987:ARG:CZ	2.43	0.48
1:D:1213:PHE:HA	1:D:1216:ILE:HD12	1.95	0.48
1:D:1648:MET:SD	1:D:1652:GLU:HB2	2.53	0.48
1:D:2244:ARG:HH22	1:D:3860:ASN:HD22	1.62	0.48
1:D:3236:VAL:HA	1:D:3239:MET:HG3	1.94	0.48
1:D:3244:PRO:HB3	1:D:3248:ARG:HD3	1.94	0.48
1:D:3629:ARG:NE	1:D:3629:ARG:HA	2.27	0.48
1:D:3720:TYR:O	1:D:3723:MET:HB2	2.13	0.48
1:D:4189:ARG:NH1	1:D:4190:ILE:O	2.45	0.48
1:D:4673:ARG:HH22	1:D:4701:TRP:HB3	1.77	0.48
1:D:4902:GLU:O	1:D:4913:ARG:NH1	2.39	0.48
1:C:283:ARG:HA	1:C:290:TYR:HA	1.94	0.48
1:C:403:MET:HE1	1:C:478:PHE:HZ	1.78	0.48
1:C:632:LEU:HD12	1:C:1666:THR:HG23	1.96	0.48
1:C:1619:ARG:HH21	1:C:1626:TRP:HE1	1.60	0.48
1:C:1972:ASN:HB3	1:C:1976:ARG:HH21	1.78	0.48
1:C:2480:GLY:O	1:C:2481:LYS:HG2	2.13	0.48
1:C:2715:VAL:HG13	1:C:2953:LYS:HB2	1.95	0.48
1:C:3149:GLN:HE22	1:C:3150:HIS:CE1	2.30	0.48
1:C:3313:ASN:HB2	1:C:3350:ARG:HE	1.78	0.48
1:C:3450:ASN:HA	1:C:3453:ARG:HE	1.78	0.48
1:C:4990:PHE:O	1:C:4993:MET:HG3	2.14	0.48
1:A:278:GLN:HA	1:A:328:LYS:HZ3	1.78	0.48
1:A:294:THR:N	1:A:298:GLY:O	2.35	0.48
1:A:515:TRP:HA	1:A:518:ILE:HD12	1.94	0.48
1:A:921:ASN:HA	1:A:924:MET:HG3	1.94	0.48
1:A:924:MET:O	1:A:928:THR:HG23	2.12	0.48
1:A:961:MET:N	1:A:961:MET:SD	2.86	0.48
1:A:1213:PHE:HA	1:A:1216:ILE:HD12	1.95	0.48
1:A:1681:VAL:O	1:A:1685:LEU:HG	2.12	0.48
1:A:1724:CYS:HA	1:A:1851:MET:HE1	1.94	0.48
1:A:2480:GLY:O	1:A:2481:LYS:HG2	2.13	0.48
1:A:3424:LEU:HD13	1:B:1216:ILE:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4578:LEU:HD12	1:B:4879:MET:CG	2.39	0.48
2:H:59:TRP:O	2:H:63:VAL:HG23	2.13	0.48
1:B:935:LEU:HD22	1:B:987:ARG:CZ	2.43	0.48
1:B:1695:LEU:O	1:B:1699:GLU:HG2	2.13	0.48
1:B:1839:VAL:O	1:B:1843:LYS:HG2	2.13	0.48
1:B:2358:ILE:HG13	1:B:2359:ARG:NE	2.27	0.48
1:B:4627:MET:CE	1:B:4627:MET:H	2.26	0.48
1:B:4732:PHE:HB3	1:B:4737:ILE:HD11	1.95	0.48
1:B:4755:GLU:OE1	1:B:4755:GLU:N	2.33	0.48
1:D:213:TYR:CE1	1:D:337:PRO:HB2	2.48	0.48
1:D:961:MET:HE2	1:D:966:LYS:HD3	1.95	0.48
1:D:1040:CYS:HA	1:D:1043:VAL:HB	1.95	0.48
1:D:1227:ALA:HA	1:D:1230:MET:HG2	1.95	0.48
1:D:1608:MET:SD	1:D:1608:MET:N	2.84	0.48
1:D:2463:LEU:HB2	1:D:2510:TYR:CE1	2.48	0.48
1:D:2480:GLY:O	1:D:2481:LYS:HG2	2.13	0.48
1:D:2715:VAL:HG13	1:D:2953:LYS:HB2	1.95	0.48
1:D:2761:TYR:O	1:D:2765:LYS:HG2	2.13	0.48
1:D:3766:GLN:HB3	1:D:3769:ARG:HH12	1.77	0.48
1:C:597:HIS:HB3	1:C:1661:ARG:HH11	1.78	0.48
1:C:1663:HIS:NE2	1:C:1711:TYR:OH	2.42	0.48
1:C:2761:TYR:O	1:C:2765:LYS:HG2	2.13	0.48
1:A:272:SER:HA	1:A:334:MET:HE1	1.94	0.48
1:A:456:SER:OG	1:A:458:GLU:HG3	2.14	0.48
1:A:838:HIS:ND1	1:A:1201:HIS:HB2	2.27	0.48
1:A:2283:ASN:ND2	1:A:2286:LEU:HG	2.29	0.48
1:A:2644:LEU:HA	1:A:2647:HIS:CE1	2.48	0.48
1:A:3534:MET:N	1:A:3534:MET:SD	2.86	0.48
1:A:3629:ARG:NE	1:A:3629:ARG:HA	2.27	0.48
1:A:3787:LYS:HB2	1:A:3787:LYS:HE3	1.57	0.48
1:A:4189:ARG:NH1	1:A:4190:ILE:O	2.45	0.48
1:A:4573:ILE:O	1:A:4577:LEU:HG	2.13	0.48
2:H:6:THR:HB	2:H:70:GLN:HE21	1.78	0.48
1:B:700:GLU:O	1:B:705:ASN:ND2	2.30	0.48
1:B:829:TYR:O	1:B:840:VAL:N	2.45	0.48
1:B:1227:ALA:HA	1:B:1230:MET:HG2	1.95	0.48
1:B:1574:PRO:HG2	1:B:1577:ALA:HB2	1.96	0.48
1:B:2247:GLN:HA	1:B:2250:MET:HE3	1.93	0.48
1:B:2283:ASN:ND2	1:B:2286:LEU:HG	2.29	0.48
1:B:3014:CYS:SG	1:B:3074:SER:OG	2.59	0.48
1:B:3138:PRO:O	1:B:3141:THR:OG1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3594:ARG:O	1:B:3597:GLN:HG3	2.13	0.48
1:B:4081:VAL:HG22	1:B:4088:ILE:HD12	1.96	0.48
1:B:4578:LEU:HD12	1:C:4879:MET:CG	2.39	0.48
1:B:4933:GLN:O	1:B:4937:ILE:HG12	2.13	0.48
1:D:2272:PRO:O	1:D:2275:VAL:HG12	2.13	0.48
1:D:2698:MET:O	1:D:2701:PRO:HD2	2.13	0.48
1:D:2742:THR:HG23	1:D:2745:VAL:HB	1.95	0.48
1:D:3534:MET:N	1:D:3534:MET:SD	2.86	0.48
1:D:4075:GLU:OE2	1:D:4075:GLU:N	2.46	0.48
1:D:4217:PHE:O	1:D:4221:VAL:HG22	2.13	0.48
1:C:213:TYR:CE1	1:C:337:PRO:HB2	2.48	0.48
1:C:456:SER:OG	1:C:458:GLU:HG3	2.14	0.48
1:C:529:LEU:HD22	1:C:536:ASN:HD21	1.79	0.48
1:C:564:LEU:O	1:C:568:LEU:HG	2.13	0.48
1:C:975:VAL:HG21	1:C:1048:GLY:HA2	1.94	0.48
1:C:2560:PRO:O	1:C:2564:LYS:NZ	2.43	0.48
1:C:3320:LEU:O	1:C:3324:VAL:HG22	2.13	0.48
1:C:3373:VAL:HG11	1:C:3444:TYR:HB3	1.96	0.48
1:C:3805:LEU:O	1:C:3890:LEU:HD22	2.13	0.48
1:C:5019:TRP:HE3	1:C:5021:PHE:HE1	1.60	0.48
1:A:1422:ASP:N	1:A:1422:ASP:OD1	2.43	0.48
1:A:2698:MET:O	1:A:2701:PRO:HD2	2.13	0.48
1:A:2761:TYR:O	1:A:2765:LYS:HG2	2.13	0.48
1:A:3145:GLN:CG	1:A:3196:ARG:HE	2.25	0.48
1:A:3594:ARG:O	1:A:3597:GLN:HG3	2.13	0.48
1:A:4092:ASP:HA	1:A:4095:LYS:HE2	1.95	0.48
1:A:4689:THR:OG1	1:A:4690:GLU:OE1	2.16	0.48
1:A:4732:PHE:HB3	1:A:4737:ILE:HD11	1.95	0.48
1:A:4769:MET:N	1:A:4769:MET:SD	2.86	0.48
2:F:23:VAL:HG22	2:F:45:PRO:HB2	1.94	0.48
1:B:35:LEU:HA	1:B:51:PRO:HA	1.94	0.48
1:B:322:LYS:NZ	1:B:354:GLY:O	2.41	0.48
1:B:456:SER:OG	1:B:458:GLU:HG3	2.14	0.48
1:B:731:THR:O	1:B:765:GLN:NE2	2.46	0.48
1:B:1213:PHE:HA	1:B:1216:ILE:HD12	1.95	0.48
1:B:2516:ASP:HA	1:B:2519:LEU:HD12	1.95	0.48
1:B:3320:LEU:O	1:B:3324:VAL:HG22	2.13	0.48
1:B:4092:ASP:HA	1:B:4095:LYS:HE2	1.95	0.48
1:B:5006:GLN:H	1:B:5006:GLN:CD	2.12	0.48
1:D:456:SER:OG	1:D:458:GLU:HG3	2.14	0.48
1:D:731:THR:O	1:D:765:GLN:NE2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:921:ASN:HA	1:D:924:MET:HG3	1.94	0.48
1:D:975:VAL:HG21	1:D:1048:GLY:HA2	1.94	0.48
1:D:2283:ASN:ND2	1:D:2286:LEU:HG	2.29	0.48
1:D:2368:LEU:HG	1:D:2376:LEU:HB2	1.96	0.48
1:D:2765:LYS:HD2	1:D:2857:PRO:HB3	1.95	0.48
1:D:3372:VAL:HG21	1:D:3401:LEU:HD21	1.94	0.48
1:D:3450:ASN:HA	1:D:3453:ARG:HE	1.78	0.48
1:D:3805:LEU:O	1:D:3890:LEU:HD22	2.13	0.48
1:D:3927:GLN:HG2	1:D:3992:PHE:CE2	2.48	0.48
1:D:4822:THR:O	1:D:4826:ILE:HG12	2.14	0.48
1:D:4843:LEU:HD13	1:C:4823:LEU:HD13	1.95	0.48
1:C:688:LEU:HD12	1:C:689:THR:H	1.79	0.48
1:C:1106:ARG:NE	1:C:1120:LEU:HB3	2.24	0.48
1:C:1213:PHE:HA	1:C:1216:ILE:HD12	1.95	0.48
1:C:1715:LEU:HD12	1:C:1719:HIS:CD2	2.49	0.48
1:C:2913:ALA:HA	1:C:2916:LYS:HG2	1.94	0.48
1:C:3684:GLU:H	1:C:3684:GLU:CD	2.15	0.48
1:C:4162:ASN:O	1:C:4166:LEU:HG	2.14	0.48
1:C:4189:ARG:NH1	1:C:4190:ILE:O	2.45	0.48
1:A:564:LEU:O	1:A:568:LEU:HG	2.13	0.48
1:A:868:GLU:HA	1:A:871:ARG:HG3	1.94	0.48
1:A:1801:ALA:O	1:A:1802:ILE:HD13	2.13	0.48
1:A:3000:LYS:HD2	1:A:3000:LYS:H	1.79	0.48
1:A:3373:VAL:HG11	1:A:3444:TYR:HB3	1.95	0.48
1:A:3450:ASN:HA	1:A:3453:ARG:HE	1.78	0.48
1:A:3529:ASP:OD2	1:A:3595:ARG:NH1	2.47	0.48
1:A:3552:PHE:HA	1:A:3555:ASN:HD22	1.79	0.48
1:A:4627:MET:H	1:A:4627:MET:CE	2.26	0.48
2:E:73:LYS:NZ	2:E:75:THR:HG23	2.27	0.48
2:E:82:TYR:CD2	2:E:87:HIS:HB2	2.48	0.48
1:B:108:LEU:HB2	1:B:147:TRP:CH2	2.48	0.48
1:B:819:GLU:OE1	1:B:819:GLU:N	2.42	0.48
1:B:1007:TYR:O	1:B:1017:ARG:NE	2.39	0.48
1:B:2004:GLU:HA	1:B:2007:ASN:ND2	2.29	0.48
1:B:2193:GLN:HG3	1:B:2194:HIS:CE1	2.49	0.48
1:B:3424:LEU:HD13	1:C:1216:ILE:HG23	1.96	0.48
1:B:3628:ARG:O	1:B:3628:ARG:HD3	2.13	0.48
1:B:4822:THR:O	1:B:4826:ILE:HG12	2.14	0.48
1:D:355:LEU:HB3	1:D:378:LEU:HD22	1.95	0.48
1:D:1216:ILE:HG23	1:C:3424:LEU:HD13	1.95	0.48
1:D:1815:LEU:HD22	1:D:1845:VAL:HG21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1839:VAL:O	1:D:1843:LYS:HG2	2.13	0.48
1:D:2644:LEU:HA	1:D:2647:HIS:CE1	2.48	0.48
1:D:2777:TYR:HB3	1:D:2791:LEU:HD21	1.95	0.48
1:D:3313:ASN:HB2	1:D:3350:ARG:HE	1.78	0.48
1:D:3634:ALA:HA	1:D:3637:ARG:HB3	1.95	0.48
1:D:3874:VAL:HG13	1:D:3875:MET:HE2	1.94	0.48
1:D:3896:ASN:O	1:D:3900:GLN:HG3	2.12	0.48
1:C:2004:GLU:HA	1:C:2007:ASN:ND2	2.29	0.48
1:C:2175:GLU:HB2	1:C:2228:MET:CE	2.41	0.48
1:C:2189:LYS:HZ1	1:C:2193:GLN:HB2	1.78	0.48
1:C:2244:ARG:HH22	1:C:3860:ASN:HD22	1.62	0.48
1:C:3141:THR:HG22	1:C:3193:CYS:HA	1.96	0.48
1:C:3513:THR:O	1:C:3517:MET:HG2	2.12	0.48
1:C:4822:THR:O	1:C:4826:ILE:HG12	2.14	0.48
1:A:322:LYS:NZ	1:A:354:GLY:O	2.41	0.48
1:A:558:SER:O	1:A:562:GLU:HG2	2.13	0.48
1:A:1972:ASN:HB3	1:A:1976:ARG:HH21	1.78	0.48
1:A:2368:LEU:HG	1:A:2376:LEU:HB2	1.96	0.48
1:A:3187:ARG:NH2	1:A:3263:TYR:OH	2.38	0.48
1:A:3244:PRO:HB3	1:A:3248:ARG:HD3	1.94	0.48
1:A:4075:GLU:OE2	1:A:4075:GLU:N	2.46	0.48
1:A:4217:PHE:O	1:A:4221:VAL:HG22	2.14	0.48
1:A:4822:THR:O	1:A:4826:ILE:HG12	2.14	0.48
2:E:17:LYS:HG2	2:E:20:GLN:NE2	2.29	0.48
2:G:52:LYS:HE2	2:G:52:LYS:HA	1.95	0.48
2:F:87:HIS:HD2	2:F:88:PRO:HD2	1.78	0.48
1:B:529:LEU:HD22	1:B:536:ASN:HD21	1.79	0.48
1:B:558:SER:O	1:B:562:GLU:HG2	2.13	0.48
1:B:637:LEU:HD21	1:B:1696:HIS:ND1	2.27	0.48
1:B:893:TYR:HA	1:B:904:HIS:O	2.14	0.48
1:B:961:MET:N	1:B:961:MET:SD	2.86	0.48
1:B:1077:ALA:HB3	1:B:1189:LEU:HD22	1.94	0.48
1:B:1534:LYS:N	1:B:1534:LYS:HD3	2.29	0.48
1:B:1972:ASN:HB3	1:B:1976:ARG:HH21	1.78	0.48
1:B:2230:THR:O	1:B:2234:ARG:HG3	2.14	0.48
1:B:2233:CYS:O	1:B:2234:ARG:C	2.52	0.48
1:B:2368:LEU:HG	1:B:2376:LEU:HB2	1.96	0.48
1:B:3529:ASP:OD2	1:B:3595:ARG:NH1	2.47	0.48
1:B:3552:PHE:HA	1:B:3555:ASN:HD22	1.79	0.48
1:B:3927:GLN:HG2	1:B:3992:PHE:CE2	2.48	0.48
1:B:4725:LEU:HA	1:B:4737:ILE:HG21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:5019:TRP:HE3	1:B:5021:PHE:HE1	1.60	0.48
1:D:1253:PRO:O	1:D:1275:ARG:NH1	2.34	0.48
1:D:1514:LEU:HD21	1:D:1516:ILE:HG13	1.96	0.48
1:D:1715:LEU:HD12	1:D:1719:HIS:CD2	2.48	0.48
1:D:1759:ARG:NH1	1:D:1760:HIS:O	2.46	0.48
1:D:1972:ASN:HB3	1:D:1976:ARG:HH21	1.78	0.48
1:D:2440:MET:O	1:D:2444:GLN:HG3	2.13	0.48
1:D:2889:LYS:HD2	1:D:2890:LYS:N	2.27	0.48
1:D:3373:VAL:HG11	1:D:3444:TYR:HB3	1.96	0.48
1:D:3534:MET:O	1:D:3538:THR:HG23	2.13	0.48
1:D:4162:ASN:O	1:D:4166:LEU:HG	2.14	0.48
1:C:233:ILE:HA	1:C:245:VAL:HG12	1.95	0.48
1:C:558:SER:O	1:C:562:GLU:HG2	2.14	0.48
1:C:663:TYR:CE1	1:C:745:SER:HB2	2.44	0.48
1:C:1514:LEU:HD21	1:C:1516:ILE:HG13	1.96	0.48
1:C:1570:LYS:NZ	1:C:1571:ASN:OD1	2.45	0.48
1:C:2193:GLN:HG3	1:C:2194:HIS:CE1	2.49	0.48
1:C:2272:PRO:O	1:C:2275:VAL:HG12	2.13	0.48
1:C:3018:LEU:HB3	1:C:3025:LEU:HD12	1.96	0.48
1:C:3244:PRO:HB3	1:C:3248:ARG:HD3	1.94	0.48
1:C:3604:TYR:O	1:C:3608:GLN:HG2	2.14	0.48
1:C:4776:GLN:HA	1:C:4779:LYS:HE2	1.95	0.48
1:A:108:LEU:HB2	1:A:147:TRP:CH2	2.48	0.48
1:A:283:ARG:HA	1:A:290:TYR:HA	1.94	0.48
1:A:597:HIS:HB3	1:A:1661:ARG:HH11	1.78	0.48
1:A:893:TYR:HA	1:A:904:HIS:O	2.14	0.48
1:A:1044:ARG:O	1:A:1044:ARG:NE	2.47	0.48
1:A:2244:ARG:HH22	1:A:3860:ASN:HD22	1.62	0.48
1:A:2272:PRO:O	1:A:2275:VAL:HG12	2.13	0.48
1:A:2440:MET:O	1:A:2444:GLN:HG3	2.13	0.48
1:A:2516:ASP:HA	1:A:2519:LEU:HD12	1.95	0.48
1:A:3628:ARG:O	1:A:3628:ARG:HD3	2.13	0.48
1:A:4677:LEU:HD12	1:A:4678:ALA:N	2.28	0.48
1:B:203:ASN:HD21	1:B:268:SER:HB2	1.79	0.48
1:B:394:GLN:OE1	1:B:397:GLU:N	2.32	0.48
1:B:597:HIS:HB3	1:B:1661:ARG:HH11	1.78	0.48
1:B:688:LEU:HD12	1:B:689:THR:H	1.79	0.48
1:B:1229:ASN:OD1	1:B:1826:ALA:HA	2.12	0.48
1:B:1263:THR:N	1:B:1266:THR:O	2.33	0.48
1:B:1715:LEU:HD12	1:B:1719:HIS:CD2	2.48	0.48
1:B:2419:GLY:O	1:B:2423:MET:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2644:LEU:HA	1:B:2647:HIS:CE1	2.48	0.48
1:B:3373:VAL:HG11	1:B:3444:TYR:HB3	1.95	0.48
1:B:3379:LEU:HD11	1:B:3394:VAL:HG11	1.96	0.48
1:D:260:TRP:CE2	1:D:284:HIS:HD2	2.32	0.48
1:D:632:LEU:HD12	1:D:1666:THR:HG23	1.95	0.48
1:D:2004:GLU:HA	1:D:2007:ASN:ND2	2.29	0.48
1:D:4581:LYS:HE2	1:D:4633:GLU:HB2	1.96	0.48
1:D:4769:MET:N	1:D:4769:MET:SD	2.86	0.48
1:C:548:VAL:HA	1:C:551:LEU:HG	1.96	0.48
1:C:896:VAL:HB	1:C:901:LYS:HE2	1.95	0.48
1:C:979:PRO:O	1:C:982:THR:OG1	2.22	0.48
1:C:1007:TYR:O	1:C:1017:ARG:NE	2.39	0.48
1:C:1182:ILE:HD12	1:C:1182:ILE:H	1.79	0.48
1:C:1534:LYS:HD3	1:C:1534:LYS:N	2.29	0.48
1:C:1815:LEU:HD22	1:C:1845:VAL:HG21	1.95	0.48
1:C:2368:LEU:HG	1:C:2376:LEU:HB2	1.96	0.48
1:C:2419:GLY:O	1:C:2423:MET:HG2	2.13	0.48
1:C:2765:LYS:HD2	1:C:2857:PRO:HB3	1.95	0.48
1:C:3014:CYS:SG	1:C:3074:SER:OG	2.59	0.48
1:C:3428:ASN:OD1	1:C:3431:ALA:N	2.45	0.48
1:C:3529:ASP:OD2	1:C:3595:ARG:NH1	2.47	0.48
1:C:4092:ASP:HA	1:C:4095:LYS:HE2	1.95	0.48
1:C:4581:LYS:HE2	1:C:4633:GLU:HB2	1.96	0.48
1:A:1182:ILE:H	1:A:1182:ILE:HD12	1.79	0.48
1:A:1457:TYR:O	1:A:1458:HIS:ND1	2.47	0.48
1:A:1514:LEU:HD21	1:A:1516:ILE:HG13	1.96	0.48
1:A:2107:GLN:HG3	1:A:3683:GLN:NE2	2.28	0.48
1:A:2267:MET:HG3	1:A:2271:THR:HG22	1.95	0.48
1:A:2742:THR:HG23	1:A:2745:VAL:HB	1.95	0.48
1:B:260:TRP:CE2	1:B:284:HIS:HD2	2.32	0.48
1:B:355:LEU:HB3	1:B:378:LEU:HD22	1.95	0.48
1:B:1478:ASP:OD1	1:B:1479:GLU:N	2.40	0.48
1:B:2913:ALA:HA	1:B:2916:LYS:HG2	1.94	0.48
1:B:3171:SER:OG	1:B:3172:ILE:N	2.46	0.48
1:B:3450:ASN:HA	1:B:3453:ARG:HE	1.78	0.48
1:B:3905:THR:HG23	1:B:3912:THR:HG21	1.96	0.48
1:B:4756:ARG:NH1	1:B:4757:LYS:H	2.12	0.48
1:D:108:LEU:HB2	1:D:147:TRP:CH2	2.48	0.48
1:D:1478:ASP:OD1	1:D:1479:GLU:N	2.40	0.48
1:D:3138:PRO:O	1:D:3141:THR:OG1	2.28	0.48
1:C:1839:VAL:O	1:C:1843:LYS:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2267:MET:HG3	1:C:2271:THR:HG22	1.95	0.48
1:C:2271:THR:H	1:C:2274:ASP:HB2	1.79	0.48
1:C:2644:LEU:HA	1:C:2647:HIS:CE1	2.48	0.48
1:C:3573:MET:SD	1:C:3573:MET:N	2.87	0.48
1:C:3720:TYR:O	1:C:3723:MET:HB2	2.13	0.48
1:C:4214:LYS:HE3	1:C:4214:LYS:HB3	1.73	0.48
1:C:4732:PHE:CD2	1:C:4736:ARG:HB3	2.49	0.48
1:C:4769:MET:N	1:C:4769:MET:SD	2.86	0.48
1:C:4933:GLN:O	1:C:4937:ILE:HG12	2.13	0.48
1:A:213:TYR:CE1	1:A:337:PRO:HB2	2.48	0.48
1:A:260:TRP:CE2	1:A:284:HIS:HD2	2.32	0.48
1:A:925:SER:O	1:A:929:LEU:HG	2.14	0.48
1:A:979:PRO:O	1:A:982:THR:OG1	2.22	0.48
1:A:1227:ALA:HA	1:A:1230:MET:HG2	1.95	0.48
1:A:1726:SER:O	1:A:1729:SER:OG	2.24	0.48
1:A:1759:ARG:NH1	1:A:1760:HIS:O	2.46	0.48
1:A:1939:MET:O	1:A:1943:LEU:HG	2.14	0.48
1:A:3379:LEU:HD11	1:A:3394:VAL:HG11	1.96	0.48
1:A:3560:GLN:OE1	1:A:3560:GLN:N	2.30	0.48
1:A:3604:TYR:O	1:A:3608:GLN:HG2	2.14	0.48
1:A:3905:THR:HG23	1:A:3912:THR:HG21	1.96	0.48
1:A:3906:GLN:H	1:A:3912:THR:HG23	1.79	0.48
1:A:4697:VAL:HG23	1:A:4698:LYS:HD3	1.96	0.48
1:A:4933:GLN:O	1:A:4937:ILE:HG12	2.13	0.48
2:E:27:THR:HA	2:E:38:SER:HA	1.94	0.48
1:B:515:TRP:HA	1:B:518:ILE:HD12	1.95	0.48
1:B:632:LEU:HD12	1:B:1666:THR:HG23	1.96	0.48
1:B:1815:LEU:HD22	1:B:1845:VAL:HG21	1.95	0.48
1:B:2271:THR:H	1:B:2274:ASP:HB2	1.79	0.48
1:B:3018:LEU:HB3	1:B:3025:LEU:HD12	1.96	0.48
1:B:3875:MET:HE2	1:B:3875:MET:N	2.29	0.48
1:B:4769:MET:SD	1:B:4769:MET:N	2.86	0.48
1:D:803:LEU:HD12	1:D:804:PRO:O	2.12	0.48
1:D:893:TYR:HA	1:D:904:HIS:O	2.14	0.48
1:D:1457:TYR:O	1:D:1458:HIS:ND1	2.47	0.48
1:D:1574:PRO:HG2	1:D:1577:ALA:HB2	1.96	0.48
1:D:2417:HIS:HB2	1:D:2492:ALA:HA	1.96	0.48
1:D:2797:PHE:HE1	1:D:2802:LYS:HG2	1.78	0.48
1:D:3171:SER:OG	1:D:3172:ILE:N	2.46	0.48
1:D:3533:ILE:HG22	1:D:3537:LYS:NZ	2.29	0.48
1:D:3628:ARG:O	1:D:3628:ARG:HD3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1093:GLU:N	1:C:1201:HIS:O	2.35	0.48
1:C:3545:THR:OG1	1:C:3547:GLU:OE1	2.21	0.48
1:C:3940:LYS:O	1:C:4002:LYS:NZ	2.44	0.48
1:C:4217:PHE:O	1:C:4221:VAL:HG22	2.13	0.48
1:C:4627:MET:CE	1:C:4627:MET:H	2.26	0.48
1:C:4756:ARG:NH1	1:C:4757:LYS:H	2.12	0.48
1:A:103:TYR:OH	1:A:167:ASP:OD2	2.30	0.48
1:A:529:LEU:HD22	1:A:536:ASN:HD21	1.79	0.48
1:A:588:SER:HB2	1:A:1582:SER:HB3	1.96	0.48
1:A:2760:GLU:HG2	1:A:2797:PHE:CE2	2.49	0.48
1:A:3018:LEU:HB3	1:A:3025:LEU:HD12	1.96	0.48
1:A:3320:LEU:O	1:A:3324:VAL:HG22	2.13	0.48
1:A:3812:VAL:O	1:A:3816:MET:HG2	2.14	0.48
2:H:18:ARG:NH1	2:H:51:GLY:HA3	2.29	0.48
2:G:24:VAL:HG12	2:G:103:LEU:HA	1.95	0.48
2:F:25:HIS:HB3	2:F:40:ARG:HE	1.79	0.48
1:B:588:SER:HB2	1:B:1582:SER:HB3	1.96	0.48
1:B:925:SER:O	1:B:929:LEU:HG	2.14	0.48
1:B:1514:LEU:HD21	1:B:1516:ILE:HG13	1.96	0.48
1:B:1608:MET:SD	1:B:1608:MET:N	2.84	0.48
1:B:2175:GLU:HB2	1:B:2228:MET:CE	2.41	0.48
1:B:2765:LYS:HD2	1:B:2857:PRO:HB3	1.95	0.48
1:B:2777:TYR:HB3	1:B:2791:LEU:HD21	1.95	0.48
1:B:2797:PHE:HE1	1:B:2802:LYS:HG2	1.78	0.48
1:B:3361:THR:O	1:B:3365:LEU:HD23	2.14	0.48
1:B:4776:GLN:HA	1:B:4779:LYS:HE2	1.95	0.48
1:D:67:PHE:CE2	1:D:111:HIS:HB2	2.49	0.48
1:D:103:TYR:OH	1:D:167:ASP:OD2	2.30	0.48
1:D:283:ARG:NH1	1:D:284:HIS:O	2.47	0.48
1:D:294:THR:N	1:D:298:GLY:O	2.35	0.48
1:D:896:VAL:HB	1:D:901:LYS:HE2	1.95	0.48
1:D:1463:ASN:OD1	1:D:1463:ASN:N	2.47	0.48
1:D:1596:GLU:OE1	1:D:1597:VAL:N	2.46	0.48
1:D:3000:LYS:HD2	1:D:3000:LYS:H	1.79	0.48
1:D:3320:LEU:O	1:D:3324:VAL:HG22	2.13	0.48
1:D:3906:GLN:H	1:D:3912:THR:HG23	1.79	0.48
1:C:203:ASN:HD21	1:C:268:SER:HB2	1.79	0.48
1:C:1574:PRO:HG2	1:C:1577:ALA:HB2	1.96	0.48
1:C:1726:SER:O	1:C:1729:SER:OG	2.24	0.48
1:C:2226:PRO:HB2	1:C:2268[B]:GLN:HE21	1.79	0.48
1:C:2950:SER:HA	1:C:2953:LYS:HE2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3372:VAL:HG21	1:C:3401:LEU:HD21	1.94	0.48
1:A:688:LEU:HD12	1:A:689:THR:H	1.79	0.47
1:A:819:GLU:OE1	1:A:819:GLU:N	2.42	0.47
1:A:1534:LYS:HD3	1:A:1534:LYS:N	2.29	0.47
1:A:1574:PRO:HG2	1:A:1577:ALA:HB2	1.96	0.47
1:A:1839:VAL:O	1:A:1843:LYS:HG2	2.13	0.47
1:A:2189:LYS:HA	1:A:2192:TYR:CD2	2.49	0.47
1:A:2233:CYS:O	1:A:2234:ARG:C	2.52	0.47
1:A:2765:LYS:HD2	1:A:2857:PRO:HB3	1.95	0.47
1:A:2913:ALA:HA	1:A:2916:LYS:HG2	1.94	0.47
1:A:3720:TYR:O	1:A:3723:MET:HB2	2.13	0.47
1:A:3927:GLN:HG2	1:A:3992:PHE:CE2	2.48	0.47
1:A:4902:GLU:O	1:A:4913:ARG:NH1	2.39	0.47
1:A:4990:PHE:O	1:A:4993:MET:HG3	2.14	0.47
2:F:8:SER:OG	2:F:71:ARG:HB3	2.13	0.47
1:B:157:ARG:HD3	1:B:157:ARG:HA	1.67	0.47
1:B:1215:ALA:HA	1:B:1219:LEU:HD22	1.96	0.47
1:B:2244:ARG:HH22	1:B:3860:ASN:HD22	1.62	0.47
1:B:2267:MET:HG3	1:B:2271:THR:HG22	1.95	0.47
1:B:2272:PRO:O	1:B:2275:VAL:HG12	2.13	0.47
1:B:3249:LEU:O	1:B:3253:ILE:HG12	2.14	0.47
1:B:3634:ALA:HA	1:B:3637:ARG:HB3	1.95	0.47
1:B:4217:PHE:O	1:B:4221:VAL:HG22	2.14	0.47
1:D:529:LEU:HD22	1:D:536:ASN:HD21	1.79	0.47
1:D:558:SER:O	1:D:562:GLU:HG2	2.13	0.47
1:D:688:LEU:HD12	1:D:689:THR:H	1.79	0.47
1:D:1619:ARG:HH21	1:D:1626:TRP:HE1	1.60	0.47
1:D:1682:ALA:HA	1:D:1685:LEU:HD12	1.96	0.47
1:D:2230:THR:O	1:D:2234:ARG:HG3	2.14	0.47
1:D:3189:ALA:O	1:D:3192:GLU:HG3	2.14	0.47
1:D:3361:THR:O	1:D:3365:LEU:HD23	2.14	0.47
1:D:3552:PHE:HA	1:D:3555:ASN:HD22	1.79	0.47
1:D:3604:TYR:O	1:D:3608:GLN:HG2	2.14	0.47
1:D:3905:THR:HG23	1:D:3912:THR:HG21	1.96	0.47
1:D:4756:ARG:NH1	1:D:4757:LYS:H	2.12	0.47
1:C:283:ARG:NH1	1:C:284:HIS:O	2.47	0.47
1:C:995:VAL:HG22	1:C:998:ARG:NH2	2.29	0.47
1:C:1040:CYS:HA	1:C:1043:VAL:HB	1.95	0.47
1:C:1077:ALA:HB3	1:C:1189:LEU:HD22	1.94	0.47
1:C:2742:THR:HG23	1:C:2745:VAL:HB	1.95	0.47
1:C:3552:PHE:HA	1:C:3555:ASN:HD22	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3812:VAL:O	1:C:3816:MET:HG2	2.14	0.47
1:C:3905:THR:HG23	1:C:3912:THR:HG21	1.96	0.47
1:C:4081:VAL:HG22	1:C:4088:ILE:HD12	1.95	0.47
1:C:4725:LEU:HA	1:C:4737:ILE:HG21	1.96	0.47
1:A:935:LEU:HD22	1:A:987:ARG:CZ	2.43	0.47
1:A:1619:ARG:HH21	1:A:1626:TRP:HE1	1.60	0.47
1:A:1815:LEU:HD22	1:A:1845:VAL:HG21	1.95	0.47
1:A:2351:ASN:O	1:A:2355:ARG:HG2	2.14	0.47
1:A:2439:GLU:O	1:A:2443:ILE:HG12	2.14	0.47
1:A:3215:ALA:O	1:A:3220:THR:OG1	2.25	0.47
1:A:3396:ASP:O	1:A:3400:VAL:HG13	2.14	0.47
1:A:4634:GLU:CD	1:A:4636:THR:HG1	2.18	0.47
2:H:105:LYS:HZ3	2:H:106:LEU:H	1.60	0.47
1:B:170:ILE:HG13	1:B:179:TYR:CD1	2.49	0.47
1:B:548:VAL:HA	1:B:551:LEU:HG	1.96	0.47
1:B:1727:ARG:O	1:B:1731:LEU:HG	2.14	0.47
1:B:1838:PHE:O	1:B:1842:LEU:HD12	2.14	0.47
1:B:2351:ASN:O	1:B:2355:ARG:HG2	2.15	0.47
1:B:3573:MET:SD	1:B:3573:MET:N	2.87	0.47
1:B:3604:TYR:O	1:B:3608:GLN:HG2	2.14	0.47
1:B:3920:VAL:O	1:B:3924:LEU:HG	2.14	0.47
1:B:4162:ASN:O	1:B:4166:LEU:HG	2.14	0.47
1:B:4662:ASN:O	1:B:4666:VAL:HB	2.14	0.47
1:B:4990:PHE:O	1:B:4993:MET:HG3	2.14	0.47
1:D:548:VAL:HA	1:D:551:LEU:HG	1.96	0.47
1:D:1007:TYR:CE1	1:D:1019:PRO:HA	2.49	0.47
1:D:1077:ALA:HB3	1:D:1189:LEU:HD22	1.94	0.47
1:D:1440:PHE:CZ	1:D:1563:GLN:HB2	2.49	0.47
1:D:1838:PHE:O	1:D:1842:LEU:HD12	2.14	0.47
1:D:2909:ASP:OD1	1:D:2909:ASP:N	2.46	0.47
1:D:3141:THR:HG22	1:D:3193:CYS:HA	1.96	0.47
1:D:3379:LEU:HD11	1:D:3394:VAL:HG11	1.96	0.47
1:D:3573:MET:SD	1:D:3573:MET:N	2.87	0.47
1:D:4990:PHE:O	1:D:4993:MET:HG3	2.13	0.47
1:C:1215:ALA:HA	1:C:1219:LEU:HD22	1.96	0.47
1:C:1682:ALA:HA	1:C:1685:LEU:HD12	1.96	0.47
1:C:2230:THR:O	1:C:2234:ARG:HG3	2.14	0.47
1:C:2417:HIS:HB2	1:C:2492:ALA:HA	1.96	0.47
1:C:2559:LEU:HB2	1:C:2560:PRO:HD3	1.96	0.47
1:C:2797:PHE:HE1	1:C:2802:LYS:HG2	1.79	0.47
1:C:3249:LEU:O	1:C:3253:ILE:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3396:ASP:O	1:C:3400:VAL:HG13	2.14	0.47
1:C:3594:ARG:O	1:C:3597:GLN:HG3	2.13	0.47
1:C:3920:VAL:O	1:C:3924:LEU:HG	2.14	0.47
1:A:175:SER:HA	1:D:2452:ARG:HH11	1.78	0.47
1:A:292:ALA:HB2	1:A:312:THR:HG23	1.97	0.47
1:A:1119:GLU:OE2	1:A:1119:GLU:N	2.47	0.47
1:A:1601:MET:CE	1:A:1604:SER:HB3	2.44	0.47
1:A:2271:THR:H	1:A:2274:ASP:HB2	1.79	0.47
1:A:3534:MET:O	1:A:3538:THR:HG23	2.13	0.47
1:A:3670:GLU:HG2	1:A:3728:ILE:HG12	1.96	0.47
1:A:4725:LEU:HA	1:A:4737:ILE:HG21	1.96	0.47
1:A:4756:ARG:NH1	1:A:4757:LYS:H	2.12	0.47
2:G:82:TYR:CD2	2:G:87:HIS:HB2	2.50	0.47
1:B:877:ASN:O	1:B:880:GLU:HG3	2.15	0.47
1:B:995:VAL:HG22	1:B:998:ARG:NH2	2.29	0.47
1:B:1182:ILE:H	1:B:1182:ILE:HD12	1.79	0.47
1:B:1682:ALA:HA	1:B:1685:LEU:HD12	1.96	0.47
1:B:2495:VAL:HG22	1:B:2498:HIS:ND1	2.29	0.47
1:B:3522:LEU:HD22	1:C:1220:GLN:OE1	2.14	0.47
1:B:3533:ILE:HG22	1:B:3537:LYS:NZ	2.29	0.47
1:B:3534:MET:O	1:B:3538:THR:HG23	2.13	0.47
1:B:3983:SER:OG	1:B:3985:LEU:HG	2.14	0.47
1:B:4732:PHE:CD2	1:B:4736:ARG:HB3	2.49	0.47
1:D:233:ILE:HA	1:D:245:VAL:HG12	1.95	0.47
1:D:257:ARG:O	1:D:284:HIS:NE2	2.35	0.47
1:D:1182:ILE:H	1:D:1182:ILE:HD12	1.79	0.47
1:D:2157:GLU:O	1:D:2161:GLN:HG2	2.14	0.47
1:D:2226:PRO:HB2	1:D:2268[B]:GLN:HE21	1.79	0.47
1:D:2439:GLU:O	1:D:2443:ILE:HG12	2.14	0.47
1:D:3249:LEU:O	1:D:3253:ILE:HG12	2.14	0.47
1:D:3812:VAL:O	1:D:3816:MET:HG2	2.14	0.47
1:C:355:LEU:HB3	1:C:378:LEU:HD22	1.95	0.47
1:C:961:MET:SD	1:C:961:MET:N	2.86	0.47
1:C:1440:PHE:CZ	1:C:1563:GLN:HB2	2.49	0.47
1:C:1727:ARG:O	1:C:1731:LEU:HG	2.14	0.47
1:C:1939:MET:O	1:C:1943:LEU:HG	2.14	0.47
1:C:2463:LEU:HB2	1:C:2510:TYR:CE1	2.48	0.47
1:C:3189:ALA:O	1:C:3192:GLU:HG3	2.14	0.47
1:C:3361:THR:O	1:C:3365:LEU:HD23	2.14	0.47
1:C:3498:ARG:HB3	1:C:3499:ARG:H	1.51	0.47
1:C:3628:ARG:O	1:C:3628:ARG:HD3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3634:ALA:HA	1:C:3637:ARG:HB3	1.95	0.47
1:A:1255:TYR:HD1	1:A:1272:LEU:HD11	1.80	0.47
1:A:1463:ASN:OD1	1:A:1463:ASN:N	2.47	0.47
1:A:1727:ARG:O	1:A:1731:LEU:HG	2.14	0.47
1:A:2004:GLU:HA	1:A:2007:ASN:ND2	2.29	0.47
1:A:2495:VAL:HG22	1:A:2498:HIS:ND1	2.29	0.47
1:A:3145:GLN:HA	1:A:3196:ARG:HH21	1.80	0.47
1:A:3189:ALA:O	1:A:3192:GLU:HG3	2.14	0.47
1:A:3361:THR:O	1:A:3365:LEU:HD23	2.14	0.47
1:A:4162:ASN:O	1:A:4166:LEU:HG	2.14	0.47
2:E:24:VAL:O	2:E:46:PHE:N	2.44	0.47
2:H:18:ARG:HH11	2:H:19:GLY:N	2.12	0.47
2:F:25:HIS:CG	2:F:40:ARG:HE	2.32	0.47
1:B:1007:TYR:CE1	1:B:1019:PRO:HA	2.49	0.47
1:B:1255:TYR:HD1	1:B:1272:LEU:HD11	1.80	0.47
1:B:2417:HIS:HB2	1:B:2492:ALA:HA	1.96	0.47
1:B:2547:ALA:HA	1:B:2550:LEU:HD23	1.96	0.47
1:B:2952:GLU:O	1:B:2957:PHE:HB3	2.15	0.47
1:B:4077:PHE:O	1:B:4081:VAL:HG23	2.15	0.47
1:B:4902:GLU:OE2	1:B:4902:GLU:N	2.26	0.47
1:D:961:MET:N	1:D:961:MET:SD	2.86	0.47
1:D:1534:LYS:HD3	1:D:1534:LYS:N	2.29	0.47
1:D:2267:MET:HG3	1:D:2271:THR:HG22	1.95	0.47
1:D:2462:PRO:HB2	1:D:2465:ASP:HB2	1.97	0.47
1:D:2499:LYS:HA	1:D:2502:MET:HG2	1.96	0.47
1:D:2760:GLU:HG2	1:D:2797:PHE:CE2	2.49	0.47
1:D:3018:LEU:HB3	1:D:3025:LEU:HD12	1.96	0.47
1:D:3106:MET:HE1	1:D:3129:LEU:HA	1.96	0.47
1:D:3145:GLN:HA	1:D:3196:ARG:HH21	1.80	0.47
1:D:3920:VAL:O	1:D:3924:LEU:HG	2.14	0.47
1:D:4081:VAL:HG22	1:D:4088:ILE:HD12	1.96	0.47
1:D:4627:MET:H	1:D:4627:MET:CE	2.26	0.47
1:D:4843:LEU:HD22	1:C:4823:LEU:HD13	1.97	0.47
1:C:108:LEU:HB2	1:C:147:TRP:CH2	2.48	0.47
1:C:588:SER:HB2	1:C:1582:SER:HB3	1.96	0.47
1:C:3504:SER:O	1:C:3508:SER:N	2.48	0.47
1:C:3670:GLU:HG2	1:C:3728:ILE:HG12	1.96	0.47
1:C:4677:LEU:HD12	1:C:4678:ALA:N	2.28	0.47
1:A:663:TYR:CE1	1:A:745:SER:HB2	2.44	0.47
1:A:1215:ALA:HA	1:A:1219:LEU:HD22	1.96	0.47
1:A:1254:HIS:HB3	1:A:1274:HIS:HE1	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1838:PHE:O	1:A:1842:LEU:HD12	2.14	0.47
1:A:2230:THR:O	1:A:2234:ARG:HG3	2.14	0.47
1:A:2462:PRO:HB2	1:A:2465:ASP:HB2	1.97	0.47
1:A:2950:SER:HA	1:A:2953:LYS:HE2	1.96	0.47
1:A:3106:MET:HE1	1:A:3129:LEU:HA	1.97	0.47
1:A:3398:PHE:HA	1:A:3401:LEU:HG	1.97	0.47
1:A:3533:ILE:HG22	1:A:3537:LYS:NZ	2.29	0.47
1:A:3573:MET:SD	1:A:3573:MET:N	2.87	0.47
1:A:3634:ALA:HA	1:A:3637:ARG:HB3	1.95	0.47
1:A:3997:ALA:HA	1:A:4000:MET:SD	2.55	0.47
1:A:4662:ASN:O	1:A:4666:VAL:HB	2.14	0.47
2:E:23:VAL:HG12	2:E:105:LYS:O	2.14	0.47
2:H:82:TYR:CD2	2:H:87:HIS:HB2	2.49	0.47
2:F:7:ILE:HD12	2:F:72:ALA:HA	1.95	0.47
1:B:11:VAL:HG11	1:B:164:ARG:HB3	1.96	0.47
1:B:1463:ASN:N	1:B:1463:ASN:OD1	2.47	0.47
1:B:2157:GLU:O	1:B:2161:GLN:HG2	2.14	0.47
1:B:2189:LYS:HA	1:B:2192:TYR:CD2	2.49	0.47
1:B:2760:GLU:HG2	1:B:2797:PHE:CE2	2.49	0.47
1:B:3532:LEU:HD23	1:B:3533:ILE:HD13	1.96	0.47
1:D:170:ILE:HG13	1:D:179:TYR:CD1	2.49	0.47
1:D:210:GLU:OE2	1:D:273:HIS:NE2	2.48	0.47
1:D:214:VAL:HG22	1:D:339:ILE:HB	1.97	0.47
1:D:887:ILE:HG23	1:D:888:GLU:OE1	2.15	0.47
1:D:1215:ALA:HA	1:D:1219:LEU:HD22	1.96	0.47
1:D:1939:MET:O	1:D:1943:LEU:HG	2.14	0.47
1:D:2193:GLN:HG3	1:D:2194:HIS:CE1	2.49	0.47
1:D:2883:HIS:CE1	1:D:2905:LEU:HD22	2.48	0.47
1:D:2966:TRP:HB3	1:D:2998:PHE:HE2	1.79	0.47
1:D:3236:VAL:HA	1:D:3239:MET:HE2	1.97	0.47
1:D:3398:PHE:HA	1:D:3401:LEU:HG	1.97	0.47
1:D:3428:ASN:OD1	1:D:3431:ALA:N	2.45	0.47
1:D:4664:LEU:HB3	1:D:4665:LYS:HZ2	1.79	0.47
1:D:4715:TYR:HE2	1:D:4717:ASP:HB3	1.79	0.47
1:D:4788:SER:O	1:D:4792:LEU:HG	2.15	0.47
1:C:639:ASN:N	1:C:678:GLN:OE1	2.40	0.47
1:C:1254:HIS:HB3	1:C:1274:HIS:HE1	1.80	0.47
1:C:1596:GLU:OE1	1:C:1597:VAL:N	2.46	0.47
1:C:2481:LYS:HZ3	1:C:2484:ALA:HB3	1.80	0.47
1:C:2777:TYR:HB3	1:C:2791:LEU:HD21	1.95	0.47
1:C:3181:THR:C	1:C:3185:LYS:HZ2	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3906:GLN:H	1:C:3912:THR:HG23	1.79	0.47
1:C:4555:LEU:HD21	1:C:4659:ILE:HG23	1.94	0.47
1:A:2496:PRO:HB3	1:A:2553:TYR:CZ	2.50	0.47
1:A:3249:LEU:O	1:A:3253:ILE:HG12	2.14	0.47
2:E:8:SER:O	2:E:70:GLN:HG3	2.14	0.47
2:F:59:TRP:O	2:F:63:VAL:HG23	2.15	0.47
2:F:93:PRO:O	2:F:94:HIS:ND1	2.48	0.47
1:B:67:PHE:CE2	1:B:111:HIS:HB2	2.49	0.47
1:B:321:GLU:N	1:B:321:GLU:OE2	2.44	0.47
1:B:515:TRP:O	1:B:519:VAL:HG22	2.15	0.47
1:B:830:ARG:HD3	1:B:1612:PHE:CE1	2.50	0.47
1:B:1440:PHE:CZ	1:B:1563:GLN:HB2	2.49	0.47
1:B:2226:PRO:HB2	1:B:2268[B]:GLN:HE21	1.79	0.47
1:B:2439:GLU:O	1:B:2443:ILE:HG12	2.14	0.47
1:B:2527:LEU:N	1:B:2528:PRO:HD2	2.30	0.47
1:B:3141:THR:HG22	1:B:3193:CYS:HA	1.96	0.47
1:B:3172:ILE:HA	1:B:3175:LEU:HD12	1.97	0.47
1:B:3396:ASP:O	1:B:3400:VAL:HG13	2.14	0.47
1:D:11:VAL:HG11	1:D:164:ARG:HB3	1.96	0.47
1:D:183:SER:OG	1:D:186:SER:OG	2.32	0.47
1:D:2527:LEU:N	1:D:2528:PRO:HD2	2.30	0.47
1:D:3594:ARG:O	1:D:3597:GLN:HG3	2.13	0.47
1:D:4732:PHE:CD2	1:D:4736:ARG:HB3	2.49	0.47
1:D:4975:PHE:O	1:D:4979:THR:HG23	2.15	0.47
1:C:260:TRP:CE2	1:C:284:HIS:HD2	2.32	0.47
1:C:1255:TYR:HD1	1:C:1272:LEU:HD11	1.80	0.47
1:C:1838:PHE:O	1:C:1842:LEU:HD12	2.14	0.47
1:C:2287:ALA:HB1	1:C:2346:VAL:HG21	1.96	0.47
1:C:2476:ILE:HD11	1:C:2541:PHE:HE2	1.80	0.47
1:C:3145:GLN:CG	1:C:3196:ARG:HE	2.25	0.47
1:C:3533:ILE:HG22	1:C:3537:LYS:NZ	2.29	0.47
1:C:3950:ASN:HA	1:C:3953:LYS:HD3	1.97	0.47
1:A:210:GLU:OE2	1:A:273:HIS:NE2	2.48	0.47
1:A:214:VAL:HG22	1:A:339:ILE:HB	1.97	0.47
1:A:283:ARG:NH1	1:A:284:HIS:O	2.47	0.47
1:A:534:ARG:HD2	1:A:570:GLU:OE1	2.15	0.47
1:A:575:LEU:O	1:A:578:ILE:HG22	2.15	0.47
1:A:632:LEU:HD12	1:A:1666:THR:HG23	1.95	0.47
1:A:887:ILE:HG23	1:A:888:GLU:OE1	2.15	0.47
1:A:896:VAL:HB	1:A:901:LYS:HE2	1.95	0.47
1:A:1076:ARG:HB3	1:A:1191:VAL:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1493:TYR:HB3	1:A:1540:PHE:CE2	2.50	0.47
1:A:1715:LEU:HD12	1:A:1719:HIS:CD2	2.48	0.47
1:A:2031:LEU:HD12	1:A:2032:GLN:N	2.30	0.47
1:A:2157:GLU:O	1:A:2161:GLN:HG2	2.14	0.47
1:A:2193:GLN:HG3	1:A:2194:HIS:CE1	2.49	0.47
1:A:2417:HIS:HB2	1:A:2492:ALA:HA	1.96	0.47
1:A:2584[A]:HIS:HE2	1:A:2621:HIS:HB3	1.80	0.47
1:A:2797:PHE:HE1	1:A:2802:LYS:HG2	1.78	0.47
1:A:2966:TRP:HB3	1:A:2998:PHE:HE2	1.79	0.47
1:A:3051:ARG:O	1:A:3053:ARG:NH2	2.45	0.47
1:A:3983:SER:OG	1:A:3985:LEU:HG	2.14	0.47
1:A:4077:PHE:O	1:A:4081:VAL:HG23	2.15	0.47
1:A:4240:ASP:OD1	1:A:4675:LYS:NZ	2.35	0.47
1:A:4581:LYS:HE2	1:A:4633:GLU:HB2	1.96	0.47
1:A:4642:ALA:O	1:A:4646:LEU:HD23	2.15	0.47
1:B:534:ARG:HD2	1:B:570:GLU:OE1	2.15	0.47
1:B:661:LYS:HD2	1:B:808:TYR:CZ	2.50	0.47
1:B:887:ILE:HG23	1:B:888:GLU:OE1	2.15	0.47
1:B:1450:VAL:HA	1:B:1552:VAL:HG22	1.97	0.47
1:B:2496:PRO:HB3	1:B:2553:TYR:CZ	2.50	0.47
1:B:2559:LEU:HB2	1:B:2560:PRO:HD3	1.96	0.47
1:B:2584[A]:HIS:HE2	1:B:2621:HIS:HB3	1.80	0.47
1:B:2909:ASP:N	1:B:2909:ASP:OD1	2.46	0.47
1:B:3720:TYR:O	1:B:3723:MET:HB2	2.13	0.47
1:B:4085:ARG:NH2	1:B:4122:MET:HG3	2.30	0.47
1:B:4214:LYS:HE3	1:B:4214:LYS:HB3	1.73	0.47
1:B:4581:LYS:HE2	1:B:4633:GLU:HB2	1.96	0.47
1:D:29:LEU:HD12	1:D:31:GLU:HB3	1.97	0.47
1:D:283:ARG:HA	1:D:290:TYR:HA	1.94	0.47
1:D:534:ARG:HD2	1:D:570:GLU:OE1	2.15	0.47
1:D:1220:GLN:CD	1:C:3522:LEU:HD22	2.34	0.47
1:D:2233:CYS:O	1:D:2234:ARG:C	2.52	0.47
1:D:2271:THR:H	1:D:2274:ASP:HB2	1.79	0.47
1:D:2496:PRO:HB3	1:D:2553:TYR:CZ	2.50	0.47
1:D:2559:LEU:HB2	1:D:2560:PRO:HD3	1.96	0.47
1:D:2950:SER:HA	1:D:2953:LYS:HE2	1.96	0.47
1:D:3181:THR:C	1:D:3185:LYS:HZ2	2.18	0.47
1:D:3245:VAL:HG22	1:D:3246:LEU:HD23	1.97	0.47
1:D:3433:GLU:OE2	1:D:3436:ARG:NE	2.36	0.47
1:D:3504:SER:O	1:D:3508:SER:N	2.48	0.47
1:D:3529:ASP:OD2	1:D:3595:ARG:NH1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3589:PRO:HA	1:D:3592:ILE:HG22	1.97	0.47
1:D:3670:GLU:HG2	1:D:3728:ILE:HG12	1.96	0.47
1:D:4031:LEU:HG	1:D:4044:MET:HG3	1.96	0.47
1:D:4697:VAL:HG23	1:D:4698:LYS:HD3	1.96	0.47
1:C:210:GLU:OE2	1:C:273:HIS:NE2	2.48	0.47
1:C:579:GLN:O	1:C:583:ILE:HG13	2.15	0.47
1:C:714:TYR:HB3	1:C:768:PHE:HE2	1.80	0.47
1:C:877:ASN:O	1:C:880:GLU:HG3	2.15	0.47
1:C:1044:ARG:O	1:C:1044:ARG:NE	2.47	0.47
1:C:2189:LYS:HA	1:C:2192:TYR:CD2	2.49	0.47
1:C:2189:LYS:NZ	1:C:2192:TYR:HB2	2.29	0.47
1:C:2439:GLU:O	1:C:2443:ILE:HG12	2.14	0.47
1:C:2462:PRO:HB2	1:C:2465:ASP:HB2	1.96	0.47
1:C:2603:ILE:O	1:C:2607:LEU:HG	2.15	0.47
1:C:3000:LYS:HD2	1:C:3000:LYS:H	1.79	0.47
1:C:3349:ALA:HA	1:C:3350:ARG:NH2	2.30	0.47
1:C:3379:LEU:HD11	1:C:3394:VAL:HG11	1.96	0.47
1:C:4642:ALA:O	1:C:4646:LEU:HD23	2.15	0.47
1:C:4846:VAL:O	1:C:4850:LEU:HG	2.15	0.47
1:A:203:ASN:HD21	1:A:268:SER:HB2	1.78	0.47
1:A:515:TRP:O	1:A:519:VAL:HG22	2.15	0.47
1:A:1007:TYR:CE1	1:A:1019:PRO:HA	2.49	0.47
1:A:1440:PHE:CZ	1:A:1563:GLN:HB2	2.49	0.47
1:A:1810:LYS:HB2	1:A:1810:LYS:HE3	1.69	0.47
1:A:2476:ILE:HD11	1:A:2541:PHE:HE2	1.80	0.47
1:A:2603:ILE:O	1:A:2607:LEU:HG	2.15	0.47
1:A:2777:TYR:HB3	1:A:2791:LEU:HD21	1.95	0.47
1:A:4975:PHE:O	1:A:4979:THR:HG23	2.15	0.47
2:G:66:MET:HG2	2:G:72:ALA:HB2	1.97	0.47
1:B:210:GLU:OE2	1:B:273:HIS:NE2	2.48	0.47
1:B:575:LEU:O	1:B:578:ILE:HG22	2.15	0.47
1:B:637:LEU:HD21	1:B:1696:HIS:CE1	2.50	0.47
1:B:714:TYR:HB3	1:B:768:PHE:HE2	1.80	0.47
1:B:1254:HIS:HB3	1:B:1274:HIS:HE1	1.80	0.47
1:B:1739:THR:HB	1:B:1742:THR:H	1.80	0.47
1:B:2243:SER:OG	1:B:2245:GLN:OE1	2.18	0.47
1:B:2500:ALA:HB2	1:B:2553:TYR:HD1	1.80	0.47
1:B:3811:GLU:O	1:B:3815:LYS:HG3	2.15	0.47
1:B:4579:PHE:HA	1:C:4880:MET:CE	2.45	0.47
1:D:579:GLN:O	1:D:583:ILE:HG13	2.15	0.47
1:D:588:SER:HB2	1:D:1582:SER:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:979:PRO:O	1:D:982:THR:OG1	2.22	0.47
1:D:1601:MET:CE	1:D:1604:SER:HB3	2.44	0.47
1:D:1660:GLN:O	1:D:1660:GLN:NE2	2.48	0.47
1:D:2189:LYS:HA	1:D:2192:TYR:CD2	2.49	0.47
1:D:2347:GLU:OE2	1:D:2347:GLU:N	2.33	0.47
1:D:2495:VAL:HG22	1:D:2498:HIS:ND1	2.29	0.47
1:D:3145:GLN:CG	1:D:3196:ARG:HE	2.25	0.47
1:D:3344:PRO:O	1:D:3347:SER:OG	2.23	0.47
1:D:3997:ALA:HA	1:D:4000:MET:SD	2.55	0.47
1:C:67:PHE:CE2	1:C:111:HIS:HB2	2.49	0.47
1:C:1426:ILE:O	1:C:1430:THR:HG22	2.15	0.47
1:C:2157:GLU:O	1:C:2161:GLN:HG2	2.14	0.47
1:C:2351:ASN:O	1:C:2355:ARG:HG2	2.15	0.47
1:C:2499:LYS:HA	1:C:2502:MET:HG2	1.96	0.47
1:C:2527:LEU:N	1:C:2528:PRO:HD2	2.30	0.47
1:C:3172:ILE:HA	1:C:3175:LEU:HD12	1.97	0.47
1:C:3525:CYS:HA	1:C:3595:ARG:NH2	2.30	0.47
1:C:3735:LEU:HB3	1:C:3766:GLN:NE2	2.30	0.47
1:C:3959:LYS:HG3	1:C:4019:LEU:HD13	1.97	0.47
1:C:4561:THR:HA	1:C:4564:PHE:CE2	2.50	0.47
1:C:4697:VAL:HG23	1:C:4698:LYS:HD3	1.96	0.47
1:A:67:PHE:CE2	1:A:111:HIS:HB2	2.49	0.47
1:A:886:ARG:HG3	1:A:891:TRP:CE3	2.50	0.47
1:A:3428:ASN:OD1	1:A:3431:ALA:N	2.45	0.47
1:A:4031:LEU:HG	1:A:4044:MET:HG3	1.96	0.47
1:A:4579:PHE:HA	1:B:4880:MET:CE	2.45	0.47
2:E:47:LYS:N	2:E:47:LYS:HD3	2.30	0.47
1:B:283:ARG:NH1	1:B:284:HIS:O	2.47	0.47
1:B:323:LEU:HD23	1:B:324:ASP:H	1.80	0.47
1:B:886:ARG:HG3	1:B:891:TRP:CE3	2.50	0.47
1:B:1601:MET:CE	1:B:1604:SER:HB3	2.44	0.47
1:B:2165:LEU:HD12	1:B:2165:LEU:HA	1.71	0.47
1:B:2950:SER:HA	1:B:2953:LYS:HE2	1.96	0.47
1:B:2967:MET:HA	1:B:2970:SER:HB3	1.97	0.47
1:B:3189:ALA:O	1:B:3192:GLU:HG3	2.14	0.47
1:B:3398:PHE:HA	1:B:3401:LEU:HG	1.97	0.47
1:B:3416:VAL:HA	1:B:3419:ASN:HB2	1.97	0.47
1:B:3950:ASN:HA	1:B:3953:LYS:HD3	1.97	0.47
1:B:4642:ALA:O	1:B:4646:LEU:HD23	2.15	0.47
1:D:158:SER:O	1:D:161:GLU:HG2	2.15	0.47
1:D:886:ARG:HG3	1:D:891:TRP:CE3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:925:SER:O	1:D:929:LEU:HG	2.14	0.47
1:D:995:VAL:HG22	1:D:998:ARG:NH2	2.29	0.47
1:D:2500:ALA:HB2	1:D:2553:TYR:HD1	1.80	0.47
1:D:2584[A]:HIS:HE2	1:D:2621:HIS:HB3	1.80	0.47
1:D:3146:HIS:CD2	1:D:3147:ILE:HD12	2.37	0.47
1:D:3396:ASP:O	1:D:3400:VAL:HG13	2.14	0.47
1:D:4662:ASN:O	1:D:4666:VAL:HB	2.14	0.47
1:C:11:VAL:HG11	1:C:164:ARG:HB3	1.96	0.47
1:C:214:VAL:HG22	1:C:339:ILE:HB	1.97	0.47
1:C:575:LEU:O	1:C:578:ILE:HG22	2.15	0.47
1:C:1105:ALA:N	1:C:1189:LEU:O	2.39	0.47
1:C:2358:ILE:HG13	1:C:2359:ARG:NE	2.28	0.47
1:C:2642:LYS:O	1:C:2645:THR:OG1	2.30	0.47
1:C:2966:TRP:HB3	1:C:2998:PHE:HE2	1.79	0.47
1:C:2967:MET:HA	1:C:2970:SER:HB3	1.97	0.47
1:C:3811:GLU:O	1:C:3815:LYS:HG3	2.15	0.47
1:C:3983:SER:OG	1:C:3985:LEU:HG	2.14	0.47
1:C:4634:GLU:CD	1:C:4636:THR:HG1	2.18	0.47
1:C:4975:PHE:O	1:C:4979:THR:HG23	2.15	0.47
1:A:155:LYS:N	1:A:155:LYS:HD2	2.30	0.47
1:A:170:ILE:HG13	1:A:179:TYR:CD1	2.49	0.47
1:A:637:LEU:HD21	1:A:1696:HIS:CE1	2.50	0.47
1:A:995:VAL:HG22	1:A:998:ARG:NH2	2.29	0.47
1:A:1208:VAL:CG1	1:D:3575:LEU:HD21	2.44	0.47
1:A:1450:VAL:HA	1:A:1552:VAL:HG22	1.97	0.47
1:A:2189:LYS:NZ	1:A:2192:TYR:HB2	2.30	0.47
1:A:2287:ALA:HB1	1:A:2346:VAL:HG21	1.96	0.47
1:A:2499:LYS:HA	1:A:2502:MET:HG2	1.96	0.47
1:A:2547:ALA:HA	1:A:2550:LEU:HD23	1.96	0.47
1:A:3589:PRO:HA	1:A:3592:ILE:HG22	1.97	0.47
1:A:3811:GLU:O	1:A:3815:LYS:HG3	2.15	0.47
1:A:4715:TYR:HE2	1:A:4717:ASP:HB3	1.79	0.47
1:A:4732:PHE:CD2	1:A:4736:ARG:HB3	2.49	0.47
2:H:20:GLN:HE22	2:H:106:LEU:HB3	1.80	0.47
1:B:681:HIS:N	1:B:784:SER:OG	2.37	0.47
1:B:1457:TYR:O	1:B:1458:HIS:ND1	2.47	0.47
1:B:2287:ALA:HB1	1:B:2346:VAL:HG21	1.96	0.47
1:B:3051:ARG:O	1:B:3053:ARG:NH2	2.45	0.47
1:B:3498:ARG:HB3	1:B:3499:ARG:H	1.51	0.47
1:B:3812:VAL:O	1:B:3816:MET:HE2	2.15	0.47
1:B:3940:LYS:O	1:B:4002:LYS:NZ	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4561:THR:HA	1:B:4564:PHE:CE2	2.50	0.47
1:B:4975:PHE:O	1:B:4979:THR:HG23	2.15	0.47
1:D:1254:HIS:HB3	1:D:1274:HIS:HE1	1.80	0.47
1:D:2476:ILE:HD11	1:D:2541:PHE:HE2	1.80	0.47
1:D:2603:ILE:O	1:D:2607:LEU:HG	2.15	0.47
1:D:3532:LEU:HD23	1:D:3533:ILE:HD13	1.96	0.47
1:D:3994:HIS:CE1	1:D:3995:VAL:HG23	2.51	0.47
1:D:5014:TYR:O	1:D:5017:ARG:HD2	2.15	0.47
1:C:170:ILE:HG13	1:C:179:TYR:CD1	2.49	0.47
1:C:830:ARG:HD3	1:C:1612:PHE:CE1	2.50	0.47
1:C:893:TYR:HA	1:C:904:HIS:O	2.14	0.47
1:C:1463:ASN:OD1	1:C:1463:ASN:N	2.47	0.47
1:C:2547:ALA:HA	1:C:2550:LEU:HD23	1.96	0.47
1:C:2952:GLU:O	1:C:2957:PHE:HB3	2.15	0.47
1:C:3145:GLN:HA	1:C:3196:ARG:HH21	1.79	0.47
1:C:3245:VAL:HG22	1:C:3246:LEU:HD23	1.97	0.47
1:C:3532:LEU:HD23	1:C:3533:ILE:HD13	1.96	0.47
1:C:4031:LEU:HG	1:C:4044:MET:HG3	1.96	0.47
1:C:4662:ASN:O	1:C:4666:VAL:HB	2.14	0.47
1:C:4715:TYR:HE2	1:C:4717:ASP:HB3	1.79	0.47
1:C:4788:SER:O	1:C:4792:LEU:HG	2.15	0.47
1:A:548:VAL:HA	1:A:551:LEU:HG	1.96	0.46
1:A:670:GLU:OE2	1:A:788:LYS:HG3	2.15	0.46
1:A:719:LEU:HD21	2:E:7:ILE:HA	1.97	0.46
1:A:1220:GLN:OE1	1:D:3522:LEU:HD22	2.15	0.46
1:A:1833:SER:HB3	1:A:1836:PHE:HD2	1.80	0.46
1:A:1924:GLU:OE2	1:A:1924:GLU:N	2.48	0.46
1:A:2226:PRO:HB2	1:A:2268[B]:GLN:HE21	1.79	0.46
1:A:2770:LYS:HB3	1:A:2786:LYS:NZ	2.30	0.46
1:A:4081:VAL:HG22	1:A:4088:ILE:HD12	1.96	0.46
1:B:183:SER:O	1:B:183:SER:OG	2.28	0.46
1:B:341:TYR:CE1	1:B:392:ARG:HA	2.50	0.46
1:B:1493:TYR:HB3	1:B:1540:PHE:CE2	2.50	0.46
1:B:3552:PHE:O	1:B:3556:ASN:HB2	2.16	0.46
1:B:3906:GLN:H	1:B:3912:THR:HG23	1.79	0.46
1:B:3959:LYS:HG3	1:B:4019:LEU:HD13	1.96	0.46
1:D:155:LYS:N	1:D:155:LYS:HD2	2.30	0.46
1:D:203:ASN:HD21	1:D:268:SER:HB2	1.79	0.46
1:D:320:LYS:NZ	1:D:386:ASP:OD2	2.34	0.46
1:D:978:THR:OG1	1:D:981:GLN:OE1	2.30	0.46
1:D:1091:GLU:OE2	1:D:1213:PHE:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1493:TYR:HB3	1:D:1540:PHE:CE2	2.50	0.46
1:D:1727:ARG:O	1:D:1731:LEU:HG	2.15	0.46
1:D:2287:ALA:HB1	1:D:2346:VAL:HG21	1.96	0.46
1:D:2291:GLN:HB3	1:D:2293:GLN:CD	2.36	0.46
1:D:2779:GLU:HA	1:D:2791:LEU:O	2.16	0.46
1:D:3254:GLY:O	1:D:3258:GLU:HG3	2.16	0.46
1:D:3811:GLU:O	1:D:3815:LYS:HG3	2.15	0.46
1:D:4642:ALA:O	1:D:4646:LEU:HD23	2.15	0.46
1:C:1091:GLU:OE2	1:C:1213:PHE:HB2	2.16	0.46
1:C:1450:VAL:HA	1:C:1552:VAL:HG22	1.97	0.46
1:C:1601:MET:CE	1:C:1604:SER:HB3	2.44	0.46
1:C:1762:LEU:HD23	1:C:1765:VAL:HG21	1.97	0.46
1:C:2031:LEU:HD12	1:C:2032:GLN:N	2.30	0.46
1:C:2233:CYS:O	1:C:2234:ARG:C	2.52	0.46
1:C:2481:LYS:HZ2	1:C:2486:VAL:HG22	1.80	0.46
1:C:3416:VAL:HA	1:C:3419:ASN:HB2	1.97	0.46
1:C:3604:TYR:HA	1:C:3607:GLU:CD	2.35	0.46
1:A:183:SER:O	1:A:183:SER:OG	2.28	0.46
1:A:341:TYR:CE1	1:A:392:ARG:HA	2.50	0.46
1:A:579:GLN:O	1:A:583:ILE:HG13	2.15	0.46
1:A:1091:GLU:OE2	1:A:1213:PHE:HB2	2.15	0.46
1:A:1596:GLU:OE1	1:A:1597:VAL:N	2.45	0.46
1:A:1859:VAL:HA	1:A:1862:ILE:HD12	1.97	0.46
1:A:2015:GLU:HA	1:A:2018:GLU:HB2	1.97	0.46
1:A:2433:LEU:HG	1:A:2505:PHE:HE2	1.80	0.46
1:A:2527:LEU:N	1:A:2528:PRO:HD2	2.30	0.46
1:A:2952:GLU:O	1:A:2957:PHE:HB3	2.15	0.46
1:A:3141:THR:HG22	1:A:3193:CYS:HA	1.96	0.46
1:A:3419:ASN:HA	1:A:3422[A]:HIS:ND1	2.30	0.46
1:A:3822:ASP:O	1:A:3824:LYS:NZ	2.30	0.46
1:A:3920:VAL:O	1:A:3924:LEU:HG	2.14	0.46
1:B:155:LYS:N	1:B:155:LYS:HD2	2.30	0.46
1:B:670:GLU:OE2	1:B:788:LYS:HG3	2.15	0.46
1:B:1091:GLU:OE2	1:B:1213:PHE:HB2	2.16	0.46
1:B:1833:SER:HB3	1:B:1836:PHE:HD2	1.80	0.46
1:B:1859:VAL:HA	1:B:1862:ILE:HD12	1.97	0.46
1:B:1939:MET:O	1:B:1943:LEU:HG	2.14	0.46
1:B:2291:GLN:HB3	1:B:2293:GLN:CD	2.36	0.46
1:B:2500:ALA:HB2	1:B:2553:TYR:HB2	1.98	0.46
1:B:2770:LYS:HB3	1:B:2786:LYS:NZ	2.30	0.46
1:B:3419:ASN:HA	1:B:3422[A]:HIS:ND1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3787:LYS:HE3	1:B:3787:LYS:HB2	1.57	0.46
1:B:3997:ALA:HA	1:B:4000:MET:SD	2.55	0.46
1:B:4634:GLU:CD	1:B:4636:THR:HG1	2.19	0.46
1:D:661:LYS:HD2	1:D:808:TYR:CZ	2.50	0.46
1:D:670:GLU:OE2	1:D:788:LYS:HG3	2.15	0.46
1:D:2312:MET:O	1:D:2316:LYS:N	2.46	0.46
1:D:3172:ILE:HA	1:D:3175:LEU:HD12	1.97	0.46
1:D:3349:ALA:HA	1:D:3350:ARG:NH2	2.30	0.46
1:D:3525:CYS:HA	1:D:3595:ARG:NH2	2.30	0.46
1:D:3787:LYS:HE3	1:D:3787:LYS:HB2	1.57	0.46
1:D:4085:ARG:NH2	1:D:4122:MET:HG3	2.30	0.46
1:D:4214:LYS:HE3	1:D:4214:LYS:HB3	1.73	0.46
1:C:323:LEU:HD23	1:C:324:ASP:H	1.80	0.46
1:C:1457:TYR:O	1:C:1458:HIS:ND1	2.47	0.46
1:C:1493:TYR:HB3	1:C:1540:PHE:CE2	2.50	0.46
1:C:1833:SER:HB3	1:C:1836:PHE:HD2	1.80	0.46
1:C:2291:GLN:HB3	1:C:2293:GLN:CD	2.36	0.46
1:C:4207:MET:HB2	1:C:4210:VAL:HG12	1.97	0.46
1:C:4722:ARG:HH11	1:C:4748:LEU:HB3	1.80	0.46
1:C:4794:TRP:O	1:C:4798:MET:HG2	2.16	0.46
1:A:15:ARG:HD3	1:A:16:THR:N	2.31	0.46
1:A:29:LEU:HD12	1:A:31:GLU:HB3	1.97	0.46
1:A:758:ARG:NH1	1:A:761:GLY:H	2.08	0.46
1:A:830:ARG:HD3	1:A:1612:PHE:CE1	2.50	0.46
1:A:2301:TYR:HB3	1:A:2331:TYR:CE2	2.50	0.46
1:A:3349:ALA:HA	1:A:3350:ARG:NH2	2.30	0.46
1:A:3416:VAL:HA	1:A:3419:ASN:HB2	1.97	0.46
1:A:4722:ARG:HH11	1:A:4748:LEU:HB3	1.80	0.46
1:A:4723:LYS:HB2	1:A:4723:LYS:HE2	1.79	0.46
1:B:66:CYS:O	1:B:111:HIS:ND1	2.41	0.46
1:B:214:VAL:HG22	1:B:339:ILE:HB	1.97	0.46
1:B:382:GLY:O	1:B:383:HIS:ND1	2.48	0.46
1:B:579:GLN:O	1:B:583:ILE:HG13	2.15	0.46
1:B:954:LYS:HA	1:B:954:LYS:HD2	1.75	0.46
1:B:1426:ILE:O	1:B:1430:THR:HG22	2.15	0.46
1:B:1568:LYS:HA	1:B:1568:LYS:HE3	1.97	0.46
1:B:2642:LYS:O	1:B:2645:THR:OG1	2.30	0.46
1:B:3349:ALA:HA	1:B:3350:ARG:NH2	2.30	0.46
1:D:229:GLU:OE2	1:D:247:TYR:HB3	2.16	0.46
1:D:382:GLY:O	1:D:383:HIS:ND1	2.48	0.46
1:D:1810:LYS:HB2	1:D:1810:LYS:HE3	1.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1833:SER:HB3	1:D:1836:PHE:HD2	1.80	0.46
1:D:1924:GLU:OE2	1:D:1924:GLU:N	2.48	0.46
1:D:2031:LEU:HD12	1:D:2032:GLN:N	2.30	0.46
1:D:2433:LEU:HG	1:D:2505:PHE:HE2	1.80	0.46
1:D:2967:MET:HA	1:D:2970:SER:HB3	1.97	0.46
1:D:3959:LYS:HG3	1:D:4019:LEU:HD13	1.97	0.46
1:D:4725:LEU:HA	1:D:4737:ILE:HG21	1.96	0.46
1:C:155:LYS:N	1:C:155:LYS:HD2	2.30	0.46
1:C:276:TRP:H	1:C:338:GLU:HG2	1.81	0.46
1:C:637:LEU:HD21	1:C:1696:HIS:CE1	2.50	0.46
1:C:661:LYS:HD2	1:C:808:TYR:CZ	2.50	0.46
1:C:881:LEU:O	1:C:885:THR:HG23	2.16	0.46
1:C:1101:ARG:HD3	1:C:1125:ASN:HB2	1.98	0.46
1:C:2283:ASN:ND2	1:C:2286:LEU:HG	2.29	0.46
1:C:3588:ASP:H	1:C:3591:LYS:HE3	1.80	0.46
1:C:4184:MET:SD	1:C:4188:ARG:NH2	2.77	0.46
1:C:5014:TYR:O	1:C:5017:ARG:HD2	2.15	0.46
1:A:11:VAL:HG11	1:A:164:ARG:HB3	1.96	0.46
1:A:168:ASP:HB3	1:A:199:LEU:HD21	1.98	0.46
1:A:233:ILE:HD13	1:A:284:HIS:CE1	2.50	0.46
1:A:661:LYS:HD2	1:A:808:TYR:CZ	2.50	0.46
1:A:4207:MET:O	1:A:4210:VAL:HG12	2.16	0.46
1:A:5006:GLN:H	1:A:5006:GLN:CD	2.12	0.46
2:G:31:GLU:HG2	2:G:96:THR:OG1	2.15	0.46
1:B:29:LEU:HD12	1:B:31:GLU:HB3	1.97	0.46
1:B:881:LEU:O	1:B:885:THR:HG23	2.16	0.46
1:B:1252:HIS:HE1	1:B:1255:TYR:CD2	2.34	0.46
1:B:2121:PHE:CZ	1:B:3701:LEU:HB2	2.51	0.46
1:B:2966:TRP:HB3	1:B:2998:PHE:HE2	1.79	0.46
1:B:3000:LYS:HD2	1:B:3000:LYS:H	1.79	0.46
1:B:3145:GLN:HA	1:B:3196:ARG:HH21	1.80	0.46
1:B:3812:VAL:O	1:B:3816:MET:HG2	2.14	0.46
1:B:4241:THR:C	1:B:4245:MET:HE2	2.36	0.46
1:D:959:TYR:O	1:D:961:MET:HE3	2.15	0.46
1:D:1426:ILE:O	1:D:1430:THR:HG22	2.15	0.46
1:D:1762:LEU:HD23	1:D:1765:VAL:HG21	1.97	0.46
1:D:2113:SER:O	1:D:2117:VAL:HG23	2.16	0.46
1:D:2351:ASN:O	1:D:2355:ARG:HG2	2.14	0.46
1:D:3419:ASN:HA	1:D:3422[A]:HIS:ND1	2.30	0.46
1:D:3539:ARG:O	1:D:3539:ARG:HD3	2.16	0.46
1:D:4207:MET:HB2	1:D:4210:VAL:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:29:LEU:HD12	1:C:31:GLU:HB3	1.97	0.46
1:C:341:TYR:CE1	1:C:392:ARG:HA	2.50	0.46
1:C:1739:THR:HB	1:C:1742:THR:H	1.80	0.46
1:C:2301:TYR:HB3	1:C:2331:TYR:CE2	2.50	0.46
1:C:2627:VAL:HA	1:C:2678:LEU:HD11	1.98	0.46
1:C:2760:GLU:HG2	1:C:2797:PHE:CE2	2.49	0.46
1:C:4077:PHE:O	1:C:4081:VAL:HG23	2.15	0.46
1:C:4698:LYS:HD3	1:C:4698:LYS:N	2.31	0.46
1:C:4755:GLU:OE1	1:C:4755:GLU:N	2.33	0.46
1:A:252:VAL:HA	1:A:255:HIS:CD2	2.51	0.46
1:A:595:ARG:HH22	1:A:1661:ARG:HH12	1.64	0.46
1:A:640:TYR:CD2	1:A:1634:LEU:HG	2.50	0.46
1:A:714:TYR:HB3	1:A:768:PHE:HE2	1.80	0.46
1:A:877:ASN:O	1:A:880:GLU:HG3	2.15	0.46
1:A:2559:LEU:HB2	1:A:2560:PRO:HD3	1.96	0.46
1:A:3181:THR:C	1:A:3185:LYS:HZ2	2.19	0.46
1:A:3604:TYR:HA	1:A:3607:GLU:CD	2.35	0.46
1:A:3674:ILE:HG23	1:A:3698:LEU:HD11	1.97	0.46
1:A:4846:VAL:O	1:A:4850:LEU:HG	2.15	0.46
1:A:4876:CYS:HB2	1:A:4882:CYS:HB2	1.37	0.46
2:H:105:LYS:NZ	2:H:106:LEU:H	2.14	0.46
1:B:252:VAL:HA	1:B:255:HIS:CD2	2.51	0.46
1:B:623:GLU:OE2	1:B:1680:ARG:NH1	2.49	0.46
1:B:1126:GLY:O	1:B:1142:PRO:HA	2.16	0.46
1:B:2340:PHE:HE1	1:B:2345:SER:HB2	1.81	0.46
1:B:2779:GLU:HA	1:B:2791:LEU:O	2.16	0.46
1:B:3181:THR:C	1:B:3185:LYS:HZ2	2.18	0.46
1:B:3604:TYR:HA	1:B:3607:GLU:CD	2.35	0.46
1:B:3670:GLU:HG2	1:B:3728:ILE:HG12	1.96	0.46
1:B:4075:GLU:OE2	1:B:4075:GLU:N	2.46	0.46
1:B:4582:VAL:HG13	1:C:4856:PHE:CZ	2.50	0.46
1:B:4697:VAL:HG23	1:B:4698:LYS:HD3	1.96	0.46
1:B:4722:ARG:HH11	1:B:4748:LEU:HB3	1.80	0.46
1:D:15:ARG:NH1	1:D:98:HIS:HB3	2.31	0.46
1:D:877:ASN:O	1:D:880:GLU:HG3	2.15	0.46
1:D:1076:ARG:HB3	1:D:1191:VAL:HG23	1.97	0.46
1:D:1101:ARG:HD3	1:D:1125:ASN:HB2	1.98	0.46
1:D:3983:SER:OG	1:D:3985:LEU:HG	2.14	0.46
1:D:4634:GLU:CD	1:D:4636:THR:HG1	2.19	0.46
1:D:4668:LEU:O	1:D:4672:LYS:HG3	2.16	0.46
1:D:4722:ARG:HH11	1:D:4748:LEU:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4794:TRP:O	1:D:4798:MET:HG2	2.16	0.46
1:C:15:ARG:NH1	1:C:98:HIS:HB3	2.31	0.46
1:C:856:VAL:HB	1:C:991:ASN:HD21	1.81	0.46
1:C:925:SER:O	1:C:929:LEU:HG	2.14	0.46
1:C:1007:TYR:CE1	1:C:1019:PRO:HA	2.49	0.46
1:C:1126:GLY:HA3	1:C:1143:TRP:CD2	2.51	0.46
1:C:2500:ALA:HB2	1:C:2553:TYR:HD1	1.80	0.46
1:C:2828:GLU:OE2	1:C:2935:TYR:OH	2.24	0.46
1:C:3138:PRO:O	1:C:3141:THR:OG1	2.27	0.46
1:C:3398:PHE:HA	1:C:3401:LEU:HG	1.97	0.46
1:C:3997:ALA:HA	1:C:4000:MET:SD	2.55	0.46
1:C:4880:MET:HE2	1:C:4880:MET:N	2.30	0.46
1:A:1126:GLY:O	1:A:1142:PRO:HA	2.16	0.46
1:A:1682:ALA:HA	1:A:1685:LEU:HD12	1.96	0.46
1:A:1705:GLY:HA2	1:A:1708:ARG:HG2	1.97	0.46
1:A:2255:SER:O	1:A:2297:LYS:NZ	2.49	0.46
1:A:2779:GLU:HA	1:A:2791:LEU:O	2.16	0.46
1:A:2788:HIS:CG	1:A:2789:PRO:HD2	2.50	0.46
1:A:3571:TRP:HE3	1:A:3575:LEU:HD23	1.81	0.46
1:A:3959:LYS:HG3	1:A:4019:LEU:HD13	1.96	0.46
1:A:4181:ILE:HD12	1:A:4181:ILE:HA	1.81	0.46
1:A:4241:THR:C	1:A:4245:MET:HE2	2.36	0.46
1:A:4668:LEU:O	1:A:4672:LYS:HG3	2.16	0.46
1:A:5014:TYR:O	1:A:5017:ARG:HD2	2.15	0.46
2:E:5:GLU:HB3	2:E:73:LYS:HB3	1.98	0.46
1:B:472:ARG:NH2	1:B:533:ASN:HA	2.31	0.46
1:B:630:GLU:OE2	1:B:630:GLU:N	2.34	0.46
1:B:640:TYR:CD2	1:B:1634:LEU:HG	2.50	0.46
1:B:979:PRO:O	1:B:982:THR:OG1	2.22	0.46
1:B:1076:ARG:HB3	1:B:1191:VAL:HG23	1.97	0.46
1:B:1762:LEU:HD23	1:B:1765:VAL:HG21	1.97	0.46
1:B:2247:GLN:HA	1:B:2250:MET:CE	2.45	0.46
1:B:2476:ILE:HD11	1:B:2541:PHE:HE2	1.80	0.46
1:B:3179:LYS:HD3	1:B:3179:LYS:N	2.31	0.46
1:B:3254:GLY:O	1:B:3258:GLU:HG3	2.16	0.46
1:B:3271:GLU:O	1:B:3275:PRO:HG2	2.15	0.46
1:B:3589:PRO:HA	1:B:3592:ILE:HG22	1.97	0.46
1:B:4031:LEU:HG	1:B:4044:MET:HG3	1.96	0.46
1:B:4715:TYR:HE2	1:B:4717:ASP:HB3	1.79	0.46
1:D:292:ALA:HB2	1:D:312:THR:HG23	1.97	0.46
1:D:296:ASP:OD1	1:D:296:ASP:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:623:GLU:OE2	1:D:1680:ARG:NH1	2.49	0.46
1:D:856:VAL:HB	1:D:991:ASN:HD21	1.81	0.46
1:D:1141:ARG:NH1	1:C:3478:MET:CE	2.77	0.46
1:D:2255:SER:O	1:D:2297:LYS:NZ	2.49	0.46
1:D:2423:MET:HE1	1:D:2494:PHE:HA	1.98	0.46
1:D:3368:ARG:HH22	1:D:3405:LEU:HD21	1.81	0.46
1:D:3735:LEU:HB3	1:D:3766:GLN:NE2	2.30	0.46
1:D:4846:VAL:O	1:D:4850:LEU:HG	2.15	0.46
1:C:515:TRP:O	1:C:519:VAL:HG22	2.15	0.46
1:C:1165:ASN:HA	1:C:1213:PHE:CE2	2.51	0.46
1:C:2113:SER:O	1:C:2117:VAL:HG23	2.16	0.46
1:C:2340:PHE:HE1	1:C:2345:SER:HB2	1.81	0.46
1:C:2584[A]:HIS:HE2	1:C:2621:HIS:HB3	1.80	0.46
1:C:3254:GLY:O	1:C:3258:GLU:HG3	2.16	0.46
1:C:3368:ARG:HH22	1:C:3405:LEU:HD21	1.81	0.46
1:C:3419:ASN:HA	1:C:3422[A]:HIS:ND1	2.30	0.46
1:C:3539:ARG:O	1:C:3542:LEU:HB2	2.16	0.46
1:C:4075:GLU:N	1:C:4075:GLU:OE2	2.46	0.46
1:A:1126:GLY:HA3	1:A:1143:TRP:CD2	2.51	0.46
1:A:1658:ASP:OD1	1:A:1659:LEU:N	2.48	0.46
1:A:1931:LEU:HB3	1:A:1935:VAL:HB	1.98	0.46
1:A:2121:PHE:CZ	1:A:3701:LEU:HB2	2.51	0.46
1:A:2247:GLN:HA	1:A:2250:MET:CE	2.45	0.46
1:A:2340:PHE:HE1	1:A:2345:SER:HB2	1.81	0.46
1:A:2500:ALA:HB2	1:A:2553:TYR:HB2	1.98	0.46
1:A:3245:VAL:HG22	1:A:3246:LEU:HD23	1.97	0.46
1:A:3254:GLY:O	1:A:3258:GLU:HG3	2.16	0.46
1:A:3411:LEU:HD12	1:A:3412:LEU:H	1.81	0.46
1:A:3608:GLN:HA	1:A:3611:HIS:CE1	2.51	0.46
1:A:4174:PHE:HA	1:A:4177:TYR:CD2	2.51	0.46
1:A:4788:SER:O	1:A:4792:LEU:HG	2.15	0.46
1:A:5000:GLU:O	1:A:5003:HIS:HB2	2.16	0.46
2:E:42:ARG:NE	2:E:42:ARG:HA	2.30	0.46
1:B:904:HIS:NE2	1:B:906:CYS:SG	2.73	0.46
1:B:2015:GLU:HA	1:B:2018:GLU:HB2	1.97	0.46
1:B:2578:MET:O	1:B:2581:SER:OG	2.18	0.46
1:B:2630:VAL:HG11	1:B:2678:LEU:HD22	1.98	0.46
1:B:3539:ARG:O	1:B:3539:ARG:HD3	2.16	0.46
1:B:4823:LEU:HD13	1:C:4843:LEU:HD13	1.98	0.46
1:B:4846:VAL:O	1:B:4850:LEU:HG	2.15	0.46
1:D:168:ASP:HB3	1:D:199:LEU:HD21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:341:TYR:CE1	1:D:392:ARG:HA	2.50	0.46
1:D:575:LEU:O	1:D:578:ILE:HG22	2.15	0.46
1:D:582:HIS:O	1:D:585:SER:OG	2.28	0.46
1:D:637:LEU:HD21	1:D:1696:HIS:CE1	2.50	0.46
1:D:1126:GLY:O	1:D:1142:PRO:HA	2.16	0.46
1:D:2340:PHE:HE1	1:D:2345:SER:HB2	1.81	0.46
1:D:2478:THR:O	1:D:2486:VAL:N	2.41	0.46
1:D:2770:LYS:HB3	1:D:2786:LYS:NZ	2.30	0.46
1:D:3571:TRP:HE3	1:D:3575:LEU:HD23	1.81	0.46
1:D:3604:TYR:HA	1:D:3607:GLU:CD	2.35	0.46
1:D:3608:GLN:HA	1:D:3611:HIS:CE1	2.51	0.46
1:D:3674:ILE:HG23	1:D:3698:LEU:HD11	1.97	0.46
1:D:4561:THR:HA	1:D:4564:PHE:CE2	2.50	0.46
1:D:5000:GLU:O	1:D:5003:HIS:HB2	2.16	0.46
1:C:28:VAL:N	1:C:31:GLU:O	2.31	0.46
1:C:252:VAL:HA	1:C:255:HIS:CD2	2.51	0.46
1:C:1126:GLY:O	1:C:1142:PRO:HA	2.16	0.46
1:C:2495:VAL:HG22	1:C:2498:HIS:ND1	2.29	0.46
1:C:2770:LYS:HB3	1:C:2786:LYS:NZ	2.30	0.46
1:C:3539:ARG:O	1:C:3539:ARG:HD3	2.16	0.46
1:C:3552:PHE:O	1:C:3556:ASN:HB2	2.16	0.46
1:C:4668:LEU:O	1:C:4672:LYS:HG3	2.16	0.46
1:C:4680:LYS:HE2	1:C:4680:LYS:HB2	1.67	0.46
1:C:4791:TYR:OH	1:C:4815:ASP:OD1	2.27	0.46
1:C:5000:GLU:O	1:C:5003:HIS:HB2	2.16	0.46
1:A:158:SER:O	1:A:161:GLU:HG2	2.15	0.46
1:A:276:TRP:H	1:A:338:GLU:HG2	1.81	0.46
1:A:2113:SER:O	1:A:2117:VAL:HG23	2.16	0.46
1:A:3172:ILE:HA	1:A:3175:LEU:HD12	1.97	0.46
1:A:3187:ARG:CZ	1:A:3267:PRO:HB2	2.46	0.46
1:A:3344:PRO:O	1:A:3347:SER:OG	2.23	0.46
1:A:3532:LEU:HD23	1:A:3533:ILE:HD13	1.96	0.46
1:A:3539:ARG:O	1:A:3539:ARG:HD3	2.16	0.46
1:A:3588:ASP:H	1:A:3591:LYS:HE3	1.80	0.46
1:A:4633:GLU:OE1	1:A:4633:GLU:N	2.49	0.46
2:E:57:ARG:HH11	2:E:57:ARG:HG2	1.80	0.46
2:H:47:LYS:HD3	2:H:47:LYS:N	2.30	0.46
1:B:229:GLU:OE2	1:B:247:TYR:HB3	2.16	0.46
1:B:1596:GLU:OE1	1:B:1597:VAL:N	2.46	0.46
1:B:2113:SER:O	1:B:2117:VAL:HG23	2.16	0.46
1:B:2389:ASP:OD1	1:B:2392:ARG:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2433:LEU:HG	1:B:2505:PHE:HE2	1.81	0.46
1:B:2462:PRO:HB2	1:B:2465:ASP:HB2	1.97	0.46
1:B:2499:LYS:HA	1:B:2502:MET:HG2	1.96	0.46
1:B:2627:VAL:HA	1:B:2678:LEU:HD11	1.98	0.46
1:B:3106:MET:HE1	1:B:3132:THR:HB	1.98	0.46
1:B:3547:GLU:H	1:B:3547:GLU:CD	2.19	0.46
1:B:3573:MET:HA	1:B:3576:TYR:HB2	1.98	0.46
1:B:3608:GLN:HA	1:B:3611:HIS:CE1	2.51	0.46
1:B:3994:HIS:CE1	1:B:3995:VAL:HG23	2.51	0.46
1:D:233:ILE:HD13	1:D:284:HIS:CE1	2.50	0.46
1:D:515:TRP:O	1:D:519:VAL:HG22	2.15	0.46
1:D:2790:MET:HA	1:D:2792:ARG:NH2	2.31	0.46
1:D:3416:VAL:HA	1:D:3419:ASN:HB2	1.97	0.46
1:D:3539:ARG:O	1:D:3542:LEU:HB2	2.16	0.46
1:D:4077:PHE:O	1:D:4081:VAL:HG23	2.15	0.46
1:D:4680:LYS:HE2	1:D:4680:LYS:HB2	1.67	0.46
1:C:534:ARG:HD2	1:C:570:GLU:OE1	2.15	0.46
1:C:640:TYR:CD2	1:C:1634:LEU:HG	2.50	0.46
1:C:700:GLU:O	1:C:705:ASN:ND2	2.30	0.46
1:C:910:PHE:HB2	1:C:918:ARG:HD3	1.98	0.46
1:C:2131:LEU:O	1:C:2135:LEU:HG	2.16	0.46
1:C:2255:SER:O	1:C:2297:LYS:NZ	2.49	0.46
1:C:2927:LEU:HA	1:C:2927:LEU:HD13	1.71	0.46
1:C:3060:ASP:O	1:C:3064:VAL:HG23	2.15	0.46
1:C:3589:PRO:HA	1:C:3592:ILE:HG22	1.97	0.46
1:C:3608:GLN:HA	1:C:3611:HIS:CE1	2.51	0.46
1:C:4174:PHE:HA	1:C:4177:TYR:CD2	2.51	0.46
1:C:4633:GLU:OE1	1:C:4633:GLU:N	2.49	0.46
1:A:15:ARG:NH1	1:A:98:HIS:HB3	2.31	0.46
1:A:229:GLU:OE2	1:A:247:TYR:HB3	2.16	0.46
1:A:976:ARG:HA	1:A:976:ARG:HD3	1.66	0.46
1:A:1141:ARG:HB2	1:D:3478:MET:O	2.15	0.46
1:A:2291:GLN:HB3	1:A:2293:GLN:CD	2.36	0.46
1:A:3504:SER:O	1:A:3508:SER:N	2.48	0.46
1:A:3547:GLU:H	1:A:3547:GLU:CD	2.19	0.46
1:A:4202:ARG:O	1:A:4206:GLU:HG2	2.16	0.46
1:A:4561:THR:HA	1:A:4564:PHE:CE2	2.50	0.46
1:A:4682:GLU:O	1:A:4727:LYS:NZ	2.40	0.46
1:B:15:ARG:HD3	1:B:16:THR:N	2.31	0.46
1:B:158:SER:O	1:B:161:GLU:HG2	2.15	0.46
1:B:474:ARG:O	1:B:478:PHE:HD1	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:695:TYR:OH	1:B:1073:ARG:NH2	2.49	0.46
1:B:1044:ARG:O	1:B:1044:ARG:NE	2.47	0.46
1:B:1119:GLU:N	1:B:1119:GLU:OE2	2.47	0.46
1:B:1165:ASN:HA	1:B:1213:PHE:CE2	2.51	0.46
1:B:1433:TYR:CE2	1:B:1573:MET:HB2	2.51	0.46
1:B:1924:GLU:N	1:B:1924:GLU:OE2	2.48	0.46
1:B:2031:LEU:HD12	1:B:2032:GLN:N	2.30	0.46
1:B:2502:MET:SD	1:B:2502:MET:N	2.89	0.46
1:B:2527:LEU:O	1:B:2530:MET:HE3	2.16	0.46
1:B:2615:ARG:HB2	1:B:2618:MET:HG3	1.98	0.46
1:B:2650:ARG:NH2	1:B:2651:CYS:SG	2.89	0.46
1:B:3535:LEU:HD23	1:B:3556:ASN:HD21	1.81	0.46
1:B:3735:LEU:HB3	1:B:3766:GLN:NE2	2.30	0.46
1:B:4207:MET:O	1:B:4210:VAL:HG12	2.16	0.46
1:B:4788:SER:O	1:B:4792:LEU:HG	2.15	0.46
1:B:5012:LYS:HE2	1:B:5012:LYS:HA	1.98	0.46
1:D:534:ARG:NH2	1:D:572:PRO:HD2	2.31	0.46
1:D:714:TYR:HB3	1:D:768:PHE:HE2	1.80	0.46
1:D:830:ARG:HD3	1:D:1612:PHE:CE1	2.50	0.46
1:D:874:LEU:HD22	1:D:1049:TYR:CE2	2.51	0.46
1:D:1044:ARG:O	1:D:1044:ARG:NE	2.47	0.46
1:D:1165:ASN:HA	1:D:1213:PHE:CE2	2.51	0.46
1:D:1716:ILE:HG23	1:D:1847:THR:HG21	1.98	0.46
1:D:1859:VAL:HA	1:D:1862:ILE:HD12	1.97	0.46
1:D:2165:LEU:HD12	1:D:2165:LEU:HA	1.71	0.46
1:D:2384:ILE:HG22	1:D:2388:GLU:OE2	2.16	0.46
1:D:2547:ALA:HA	1:D:2550:LEU:HD23	1.96	0.46
1:D:2788:HIS:CG	1:D:2789:PRO:HD2	2.51	0.46
1:D:2927:LEU:HA	1:D:2927:LEU:HD13	1.72	0.46
1:D:3562:LYS:HA	1:D:3562:LYS:HD3	1.60	0.46
1:D:3844:LEU:HD23	1:D:3844:LEU:HA	1.84	0.46
1:D:4580:TYR:OH	1:D:4630:TYR:O	2.29	0.46
1:D:4633:GLU:OE1	1:D:4633:GLU:N	2.49	0.46
1:C:229:GLU:OE2	1:C:247:TYR:HB3	2.16	0.46
1:C:233:ILE:HD13	1:C:284:HIS:CE1	2.50	0.46
1:C:695:TYR:OH	1:C:1073:ARG:NH2	2.49	0.46
1:C:1119:GLU:OE2	1:C:1119:GLU:N	2.47	0.46
1:C:1705:GLY:HA2	1:C:1708:ARG:HG2	1.97	0.46
1:C:2496:PRO:HB3	1:C:2553:TYR:CZ	2.50	0.46
1:C:2788:HIS:CG	1:C:2789:PRO:HD2	2.51	0.46
1:C:3271:GLU:O	1:C:3275:PRO:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3994:HIS:CE1	1:C:3995:VAL:HG23	2.50	0.46
1:C:4085:ARG:NH2	1:C:4122:MET:HG3	2.30	0.46
1:A:749:ASP:O	1:A:754:SER:N	2.36	0.46
1:A:856:VAL:HB	1:A:991:ASN:HD21	1.81	0.46
1:A:881:LEU:O	1:A:885:THR:HG23	2.16	0.46
1:A:1101:ARG:HD3	1:A:1125:ASN:HB2	1.98	0.46
1:A:1739:THR:HB	1:A:1742:THR:H	1.80	0.46
1:A:1785:ALA:HA	2:E:56:ILE:HD13	1.98	0.46
1:A:2131:LEU:O	1:A:2135:LEU:HG	2.16	0.46
1:A:2384:ILE:HG22	1:A:2388:GLU:OE2	2.16	0.46
1:A:3060:ASP:O	1:A:3064:VAL:HG23	2.15	0.46
1:A:3940:LYS:O	1:A:4002:LYS:NZ	2.44	0.46
1:A:3950:ASN:HA	1:A:3953:LYS:HD3	1.97	0.46
1:A:3994:HIS:CE1	1:A:3995:VAL:HG23	2.50	0.46
1:A:4794:TRP:O	1:A:4798:MET:HG2	2.16	0.46
2:E:2:VAL:HG23	2:E:80:TYR:CD2	2.50	0.46
2:E:26:TYR:OH	2:E:37:ASP:OD2	2.27	0.46
2:F:10:GLY:HA3	2:F:70:GLN:HB2	1.98	0.46
1:B:233:ILE:HD13	1:B:284:HIS:CE1	2.50	0.46
1:B:874:LEU:HD22	1:B:1049:TYR:CE2	2.51	0.46
1:B:1105:ALA:O	1:B:1189:LEU:N	2.35	0.46
1:B:2603:ILE:O	1:B:2607:LEU:HG	2.15	0.46
1:B:3411:LEU:HD12	1:B:3412:LEU:H	1.81	0.46
1:B:3539:ARG:O	1:B:3542:LEU:HB2	2.16	0.46
1:B:3588:ASP:H	1:B:3591:LYS:HE3	1.80	0.46
1:B:4207:MET:HB2	1:B:4210:VAL:HG12	1.97	0.46
1:B:4633:GLU:OE1	1:B:4633:GLU:N	2.49	0.46
1:B:4634:GLU:HG2	1:B:4639:MET:HG2	1.98	0.46
1:B:5014:TYR:O	1:B:5017:ARG:HD2	2.15	0.46
1:D:474:ARG:O	1:D:478:PHE:HD1	1.99	0.46
1:D:483:MET:HE3	1:D:486:LEU:HD21	1.98	0.46
1:D:640:TYR:CD2	1:D:1634:LEU:HG	2.50	0.46
1:D:1450:VAL:HA	1:D:1552:VAL:HG22	1.97	0.46
1:D:1931:LEU:HB3	1:D:1935:VAL:HB	1.98	0.46
1:D:2301:TYR:HB3	1:D:2331:TYR:CE2	2.50	0.46
1:D:2952:GLU:O	1:D:2957:PHE:HB3	2.15	0.46
1:D:3187:ARG:CZ	1:D:3267:PRO:HB2	2.46	0.46
1:D:3368:ARG:HH22	1:D:3405:LEU:HD11	1.81	0.46
1:D:3573:MET:HA	1:D:3576:TYR:HB2	1.98	0.46
1:D:3588:ASP:H	1:D:3591:LYS:HE3	1.80	0.46
1:D:4664:LEU:HD12	1:D:4664:LEU:HA	1.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:158:SER:O	1:C:161:GLU:HG2	2.15	0.46
1:C:188:GLU:H	1:C:188:GLU:HG3	1.60	0.46
1:C:292:ALA:HB2	1:C:312:THR:HG23	1.97	0.46
1:C:382:GLY:O	1:C:383:HIS:ND1	2.48	0.46
1:C:534:ARG:NH2	1:C:572:PRO:HD2	2.31	0.46
1:C:887:ILE:HG23	1:C:888:GLU:OE1	2.15	0.46
1:C:1252:HIS:HE1	1:C:1255:TYR:CD2	2.34	0.46
1:C:1433:TYR:CE2	1:C:1573:MET:HB2	2.51	0.46
1:C:1476:MET:O	1:C:1484:HIS:N	2.49	0.46
1:C:2094:LEU:HD23	1:C:2094:LEU:H	1.81	0.46
1:C:2121:PHE:CZ	1:C:3701:LEU:HB2	2.51	0.46
1:C:2247:GLN:HA	1:C:2250:MET:CE	2.45	0.46
1:C:2779:GLU:HA	1:C:2791:LEU:O	2.16	0.46
1:A:125:ARG:NH1	1:A:126:SER:HA	2.31	0.45
1:A:320:LYS:NZ	1:A:386:ASP:OD2	2.34	0.45
1:A:472:ARG:NH2	1:A:533:ASN:HA	2.31	0.45
1:A:534:ARG:NH2	1:A:572:PRO:HD2	2.31	0.45
1:A:623:GLU:OE2	1:A:1680:ARG:NH1	2.49	0.45
1:A:1141:ARG:NH1	1:D:3478:MET:CE	2.74	0.45
1:A:1252:HIS:HE1	1:A:1255:TYR:CD2	2.34	0.45
1:A:2287:ALA:HA	1:A:2290:LEU:HD12	1.99	0.45
1:A:2389:ASP:OD1	1:A:2392:ARG:HB2	2.16	0.45
1:A:2615:ARG:HB2	1:A:2618:MET:HG3	1.98	0.45
1:A:3271:GLU:O	1:A:3275:PRO:HG2	2.15	0.45
1:A:3368:ARG:HH22	1:A:3405:LEU:HD11	1.81	0.45
1:A:3525:CYS:HA	1:A:3595:ARG:NH2	2.30	0.45
1:A:4085:ARG:NH2	1:A:4122:MET:HG3	2.30	0.45
1:A:4634:GLU:HG2	1:A:4639:MET:HG2	1.98	0.45
1:A:4715:TYR:CE2	1:A:4717:ASP:HB3	2.51	0.45
1:A:4856:PHE:CZ	1:D:4582:VAL:HG13	2.52	0.45
2:E:59:TRP:CH2	2:E:63:VAL:HG21	2.50	0.45
2:G:56:ILE:HD11	1:C:1783:VAL:HA	1.97	0.45
2:G:97:LEU:HD12	2:G:97:LEU:HA	1.80	0.45
1:B:125:ARG:NH1	1:B:126:SER:HA	2.31	0.45
1:B:292:ALA:HB2	1:B:312:THR:HG23	1.97	0.45
1:B:856:VAL:HB	1:B:991:ASN:HD21	1.81	0.45
1:B:910:PHE:HB2	1:B:918:ARG:HD3	1.98	0.45
1:B:1111:PRO:HD3	1:B:1605:TRP:NE1	2.31	0.45
1:B:1843:LYS:HE2	1:B:1938:GLN:HG2	1.98	0.45
1:B:2107:GLN:NE2	1:B:3681:GLY:H	2.15	0.45
1:B:2131:LEU:O	1:B:2135:LEU:HG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2287:ALA:HA	1:B:2290:LEU:HD12	1.99	0.45
1:B:2328:GLY:HA3	1:B:2425:PHE:HE2	1.81	0.45
1:B:2952:GLU:HA	1:B:2957:PHE:CG	2.52	0.45
1:B:4715:TYR:CE2	1:B:4717:ASP:HB3	2.51	0.45
1:D:881:LEU:O	1:D:885:THR:HG23	2.16	0.45
1:D:1255:TYR:HD1	1:D:1272:LEU:HD11	1.80	0.45
1:D:2247:GLN:HA	1:D:2250:MET:CE	2.45	0.45
1:D:3060:ASP:O	1:D:3064:VAL:HG23	2.15	0.45
1:D:4202:ARG:O	1:D:4206:GLU:HG2	2.16	0.45
1:C:2088:GLU:OE1	1:C:2088:GLU:N	2.50	0.45
1:C:2231:SER:HB3	1:C:2234:ARG:HH21	1.81	0.45
1:C:2389:ASP:OD1	1:C:2392:ARG:HB2	2.16	0.45
1:C:2790:MET:HA	1:C:2792:ARG:NH2	2.31	0.45
1:C:3533:ILE:HG22	1:C:3537:LYS:HZ2	1.80	0.45
1:C:4241:THR:C	1:C:4245:MET:HE2	2.36	0.45
1:A:2952:GLU:HA	1:A:2957:PHE:CG	2.52	0.45
1:A:3352:GLU:OE2	1:A:3352:GLU:N	2.34	0.45
1:A:3368:ARG:HH22	1:A:3405:LEU:HD21	1.81	0.45
2:E:22:CYS:HB2	2:E:48:PHE:CE1	2.52	0.45
1:B:15:ARG:NH1	1:B:98:HIS:HB3	2.31	0.45
1:B:168:ASP:HB3	1:B:199:LEU:HD21	1.98	0.45
1:B:2788:HIS:CG	1:B:2789:PRO:HD2	2.51	0.45
1:B:3060:ASP:O	1:B:3064:VAL:HG23	2.15	0.45
1:B:3514:LEU:HA	1:B:3517:MET:CG	2.46	0.45
1:B:3525:CYS:HA	1:B:3595:ARG:NH2	2.30	0.45
1:B:3674:ILE:HG23	1:B:3698:LEU:HD11	1.98	0.45
1:B:5000:GLU:O	1:B:5003:HIS:HB2	2.16	0.45
1:D:15:ARG:HD3	1:D:16:THR:N	2.31	0.45
1:D:183:SER:O	1:D:183:SER:OG	2.28	0.45
1:D:1476:MET:O	1:D:1484:HIS:N	2.50	0.45
1:D:2231:SER:HB3	1:D:2234:ARG:HH21	1.82	0.45
1:D:3179:LYS:HD3	1:D:3179:LYS:N	2.31	0.45
1:D:4241:THR:C	1:D:4245:MET:HE2	2.36	0.45
1:C:125:ARG:NH1	1:C:126:SER:HA	2.31	0.45
1:C:462:GLU:H	1:C:462:GLU:CD	2.19	0.45
1:C:483:MET:HE3	1:C:486:LEU:HD21	1.98	0.45
1:C:874:LEU:HD22	1:C:1049:TYR:CE2	2.51	0.45
1:C:904:HIS:NE2	1:C:906:CYS:SG	2.73	0.45
1:C:1859:VAL:HA	1:C:1862:ILE:HD12	1.97	0.45
1:C:1931:LEU:HB3	1:C:1935:VAL:HB	1.98	0.45
1:C:2500:ALA:HB2	1:C:2553:TYR:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2502:MET:N	1:C:2502:MET:SD	2.89	0.45
1:C:2579:VAL:O	1:C:2582:MET:SD	2.74	0.45
1:C:2630:VAL:HG11	1:C:2678:LEU:HD22	1.98	0.45
1:C:2952:GLU:HA	1:C:2957:PHE:CG	2.52	0.45
1:C:4207:MET:O	1:C:4210:VAL:HG12	2.16	0.45
1:C:5012:LYS:HE2	1:C:5012:LYS:HA	1.98	0.45
1:A:1251:GLU:OE1	1:A:1251:GLU:N	2.34	0.45
1:A:1568:LYS:HA	1:A:1568:LYS:HE3	1.97	0.45
1:A:1810:LYS:O	1:A:1814:MET:SD	2.75	0.45
1:A:2430:ILE:HG13	1:A:2502:MET:HE1	1.98	0.45
1:A:2502:MET:N	1:A:2502:MET:SD	2.89	0.45
1:A:2790:MET:HA	1:A:2792:ARG:NH2	2.31	0.45
1:A:3368:ARG:HA	1:A:3371:LYS:HE2	1.99	0.45
1:A:4207:MET:HB2	1:A:4210:VAL:HG12	1.97	0.45
2:H:7:ILE:HD13	2:H:71:ARG:NE	2.18	0.45
2:H:21:THR:HG23	2:H:107:GLU:HB2	1.96	0.45
2:F:20:GLN:OE1	2:F:21:THR:N	2.49	0.45
1:B:595:ARG:HH22	1:B:1661:ARG:HH12	1.64	0.45
1:B:1726:SER:O	1:B:1729:SER:OG	2.24	0.45
1:B:2496:PRO:HB3	1:B:2553:TYR:CE2	2.52	0.45
1:B:2555:CYS:CB	1:B:2599:GLN:HE21	2.26	0.45
1:B:3187:ARG:CZ	1:B:3267:PRO:HB2	2.46	0.45
1:B:3442:PHE:CZ	1:B:3605:HIS:HB3	2.52	0.45
1:B:3950:ASN:O	1:B:3953:LYS:HG2	2.17	0.45
1:B:4174:PHE:HA	1:B:4177:TYR:CD2	2.51	0.45
1:B:4202:ARG:O	1:B:4206:GLU:HG2	2.16	0.45
1:D:125:ARG:NH1	1:D:126:SER:HA	2.31	0.45
1:D:904:HIS:NE2	1:D:906:CYS:SG	2.73	0.45
1:D:1105:ALA:N	1:D:1189:LEU:O	2.39	0.45
1:D:2131:LEU:O	1:D:2135:LEU:HG	2.16	0.45
1:D:2389:ASP:OD1	1:D:2392:ARG:HB2	2.16	0.45
1:D:3719:ASP:OD2	1:D:3722:TYR:N	2.49	0.45
1:D:3950:ASN:HA	1:D:3953:LYS:HD3	1.97	0.45
1:C:579:GLN:HB2	1:C:581:ASN:OD1	2.17	0.45
1:C:582:HIS:O	1:C:585:SER:OG	2.28	0.45
1:C:670:GLU:OE2	1:C:788:LYS:HG3	2.15	0.45
1:C:3573:MET:HA	1:C:3576:TYR:HB2	1.98	0.45
1:C:3674:ILE:HG23	1:C:3698:LEU:HD11	1.97	0.45
1:C:4716:TRP:CG	6:C:5304:A1BD2:C4	3.00	0.45
1:C:4904:PRO:HB2	1:C:4910:GLU:HB2	1.99	0.45
1:A:579:GLN:HB2	1:A:581:ASN:OD1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:695:TYR:OH	1:A:1073:ARG:NH2	2.49	0.45
1:A:931:THR:HG21	1:A:991:ASN:HD22	1.81	0.45
1:A:1039:LEU:O	1:A:1043:VAL:HG23	2.17	0.45
1:A:2328:GLY:HA3	1:A:2425:PHE:HE2	1.81	0.45
1:A:2579:VAL:O	1:A:2582:MET:SD	2.74	0.45
1:A:3563:VAL:HG23	1:A:3569:LEU:HB3	1.98	0.45
1:A:3644:LEU:HD21	1:A:3652:MET:SD	2.57	0.45
1:A:3707:ARG:O	1:A:3711:THR:OG1	2.27	0.45
1:A:5012:LYS:HE2	1:A:5012:LYS:HA	1.98	0.45
2:E:42:ARG:HB3	2:E:44:LYS:HZ3	1.81	0.45
2:E:66:MET:HE3	2:E:70:GLN:NE2	2.32	0.45
1:B:276:TRP:H	1:B:338:GLU:HG2	1.81	0.45
1:B:437:PRO:O	1:B:441:VAL:HG12	2.16	0.45
1:B:534:ARG:NH2	1:B:572:PRO:HD2	2.31	0.45
1:B:1039:LEU:O	1:B:1043:VAL:HG23	2.17	0.45
1:B:1126:GLY:HA3	1:B:1143:TRP:CD2	2.51	0.45
1:B:1658:ASP:OD1	1:B:1659:LEU:N	2.48	0.45
1:B:1810:LYS:O	1:B:1814:MET:SD	2.75	0.45
1:B:3245:VAL:HG22	1:B:3246:LEU:HD23	1.97	0.45
1:B:3368:ARG:HH22	1:B:3405:LEU:HD21	1.81	0.45
1:B:3560:GLN:OE1	1:B:3560:GLN:N	2.30	0.45
1:B:3822:ASP:O	1:B:3824:LYS:NZ	2.30	0.45
1:B:3833:GLN:CD	1:B:3913:ILE:HG21	2.37	0.45
1:B:4664:LEU:HB3	1:B:4665:LYS:HZ2	1.82	0.45
1:B:4716:TRP:CG	6:B:5304:A1BD2:C4	2.99	0.45
1:D:323:LEU:HD23	1:D:324:ASP:H	1.80	0.45
1:D:462:GLU:H	1:D:462:GLU:CD	2.19	0.45
1:D:472:ARG:NH2	1:D:533:ASN:HA	2.31	0.45
1:D:554:LEU:HD11	1:D:1593:PRO:HD3	1.99	0.45
1:D:695:TYR:OH	1:D:1073:ARG:NH2	2.49	0.45
1:D:2500:ALA:HB2	1:D:2553:TYR:HB2	1.98	0.45
1:D:3014:CYS:SG	1:D:3074:SER:OG	2.59	0.45
1:D:3271:GLU:O	1:D:3275:PRO:HG2	2.15	0.45
1:D:4207:MET:O	1:D:4210:VAL:HG12	2.16	0.45
1:D:4698:LYS:HD3	1:D:4698:LYS:N	2.31	0.45
1:D:4880:MET:HE3	1:C:4579:PHE:HA	1.98	0.45
1:D:4904:PRO:HB2	1:D:4910:GLU:HB2	1.99	0.45
1:C:681:HIS:N	1:C:784:SER:OG	2.37	0.45
1:C:829:TYR:O	1:C:840:VAL:N	2.45	0.45
1:C:886:ARG:HG3	1:C:891:TRP:CE3	2.50	0.45
1:C:1076:ARG:HB3	1:C:1191:VAL:HG23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1237:TRP:HE3	1:C:1605:TRP:HB3	1.82	0.45
1:C:1613:LEU:HD23	1:C:1613:LEU:HA	1.81	0.45
1:C:2231:SER:HA	1:C:2234:ARG:NE	2.31	0.45
1:C:2585:THR:O	1:C:2589:LEU:HG	2.17	0.45
1:C:3187:ARG:CZ	1:C:3267:PRO:HB2	2.46	0.45
1:C:3411:LEU:HD12	1:C:3412:LEU:H	1.81	0.45
1:C:3433:GLU:OE2	1:C:3436:ARG:NE	2.36	0.45
1:A:323:LEU:HD23	1:A:324:ASP:H	1.80	0.45
1:A:1165:ASN:HA	1:A:1213:PHE:CE2	2.51	0.45
1:A:1452:TRP:CZ3	1:A:1550:PRO:HG3	2.52	0.45
1:A:1579:MET:HE1	1:A:1595:LEU:HD13	1.98	0.45
1:A:1762:LEU:HD23	1:A:1765:VAL:HG21	1.97	0.45
1:A:2527:LEU:O	1:A:2530:MET:HE3	2.16	0.45
1:A:2555:CYS:CB	1:A:2599:GLN:HE21	2.27	0.45
1:A:2650:ARG:NH2	1:A:2651:CYS:SG	2.89	0.45
1:A:2883:HIS:CE1	1:A:2905:LEU:HD22	2.48	0.45
1:A:3478:MET:O	1:B:1141:ARG:HB2	2.17	0.45
1:A:3535:LEU:HD23	1:A:3556:ASN:HD21	1.81	0.45
1:A:3573:MET:HA	1:A:3576:TYR:HB2	1.98	0.45
1:A:3821:LYS:O	1:A:3824:LYS:HE3	2.17	0.45
1:A:4673:ARG:NH1	1:A:4782:VAL:HG22	2.32	0.45
1:A:4823:LEU:HD13	1:B:4843:LEU:HD22	1.98	0.45
1:A:4843:LEU:HD13	1:D:4823:LEU:HD13	1.97	0.45
1:B:320:LYS:NZ	1:B:386:ASP:OD2	2.34	0.45
1:B:976:ARG:HA	1:B:976:ARG:HD3	1.66	0.45
1:B:1705:GLY:HA2	1:B:1708:ARG:HG2	1.97	0.45
1:B:1931:LEU:HB3	1:B:1935:VAL:HB	1.98	0.45
1:B:2579:VAL:O	1:B:2582:MET:SD	2.74	0.45
1:B:2790:MET:HA	1:B:2792:ARG:NH2	2.31	0.45
1:B:3185:LYS:HE3	1:B:3185:LYS:HB3	1.85	0.45
1:B:3644:LEU:HD21	1:B:3652:MET:SD	2.57	0.45
1:B:3825:GLU:OE2	1:B:3827:GLY:N	2.48	0.45
1:B:4698:LYS:HD3	1:B:4698:LYS:N	2.31	0.45
1:B:4794:TRP:O	1:B:4798:MET:HG2	2.16	0.45
1:D:910:PHE:HB2	1:D:918:ARG:HD3	1.98	0.45
1:D:1088:TRP:HA	1:D:1224:GLU:O	2.17	0.45
1:D:1237:TRP:HE3	1:D:1605:TRP:HB3	1.82	0.45
1:D:2107:GLN:NE2	1:D:3681:GLY:H	2.15	0.45
1:D:2122:SER:HA	1:D:3721:LEU:HD11	1.99	0.45
1:D:2552:ARG:HH11	1:D:2599:GLN:HE22	1.64	0.45
1:D:2952:GLU:HA	1:D:2957:PHE:CG	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3552:PHE:O	1:D:3556:ASN:HB2	2.16	0.45
1:D:3875:MET:HE2	1:D:3875:MET:H	1.82	0.45
1:D:4174:PHE:HA	1:D:4177:TYR:CD2	2.51	0.45
1:D:4686:LEU:HA	1:D:4690:GLU:HB2	1.98	0.45
1:C:183:SER:OG	1:C:186:SER:OG	2.32	0.45
1:C:261:ARG:HB3	1:C:283:ARG:O	2.17	0.45
1:C:489:ASN:HB3	1:C:493:ARG:HH21	1.82	0.45
1:C:1154:ASP:HB3	1:C:1157:GLU:HB3	1.99	0.45
1:C:1286:MET:HG3	1:C:1288:PHE:CZ	2.52	0.45
1:C:1810:LYS:O	1:C:1814:MET:SD	2.75	0.45
1:C:2015:GLU:HA	1:C:2018:GLU:HB2	1.97	0.45
1:C:2107:GLN:NE2	1:C:3681:GLY:H	2.14	0.45
1:C:2433:LEU:HG	1:C:2505:PHE:HE2	1.80	0.45
1:C:2650:ARG:NH2	1:C:2651:CYS:SG	2.89	0.45
1:C:3185:LYS:HE3	1:C:3185:LYS:HB3	1.85	0.45
1:C:4202:ARG:O	1:C:4206:GLU:HG2	2.16	0.45
1:C:4686:LEU:HA	1:C:4690:GLU:HB2	1.98	0.45
1:A:378:LEU:HD23	1:A:378:LEU:HA	1.86	0.45
1:A:554:LEU:HD11	1:A:1593:PRO:HD3	1.99	0.45
1:A:1426:ILE:O	1:A:1430:THR:HG22	2.15	0.45
1:A:1716:ILE:HG23	1:A:1847:THR:HG21	1.98	0.45
1:A:2165:LEU:HD12	1:A:2165:LEU:HA	1.71	0.45
1:A:2287:ALA:O	1:A:2290:LEU:HB2	2.17	0.45
1:A:2423:MET:HE3	1:A:2494:PHE:HA	1.99	0.45
1:A:2870[B]:GLU:OE2	1:A:2939:ARG:NE	2.50	0.45
1:A:3514:LEU:HA	1:A:3517:MET:CG	2.47	0.45
1:A:3522:LEU:CD2	1:B:1220:GLN:OE1	2.64	0.45
1:A:3552:PHE:O	1:A:3556:ASN:HB2	2.16	0.45
1:A:3735:LEU:HB3	1:A:3766:GLN:NE2	2.30	0.45
1:A:3833:GLN:CD	1:A:3913:ILE:HG21	2.37	0.45
1:A:4755:GLU:OE1	1:A:4755:GLU:N	2.33	0.45
2:F:41:ASP:HB3	1:B:1690:ASP:OD1	2.16	0.45
1:B:441:VAL:O	1:B:445:LEU:HG	2.17	0.45
1:B:463:GLU:OE1	1:B:463:GLU:N	2.37	0.45
1:B:1000:ARG:HB3	1:B:1021:LEU:HD12	1.99	0.45
1:B:1085:SER:OG	1:B:1086:GLY:N	2.50	0.45
1:B:1237:TRP:HE3	1:B:1605:TRP:HB3	1.82	0.45
1:B:1252:HIS:CE1	1:B:1255:TYR:HD2	2.34	0.45
1:D:252:VAL:HA	1:D:255:HIS:CD2	2.51	0.45
1:D:595:ARG:HH22	1:D:1661:ARG:HH12	1.64	0.45
1:D:1039:LEU:O	1:D:1043:VAL:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1126:GLY:HA3	1:D:1143:TRP:CD2	2.51	0.45
1:D:1220:GLN:CG	1:C:3522:LEU:HB3	2.47	0.45
1:D:1568:LYS:HE3	1:D:1568:LYS:HA	1.97	0.45
1:D:1705:GLY:HA2	1:D:1708:ARG:HG2	1.97	0.45
1:D:1739:THR:HB	1:D:1742:THR:H	1.80	0.45
1:D:2121:PHE:CZ	1:D:3701:LEU:HB2	2.51	0.45
1:D:2527:LEU:O	1:D:2530:MET:HE3	2.16	0.45
1:D:2579:VAL:O	1:D:2582:MET:SD	2.74	0.45
1:D:2585:THR:O	1:D:2589:LEU:HG	2.17	0.45
1:D:2615:ARG:HB2	1:D:2618:MET:HG3	1.98	0.45
1:D:3411:LEU:HD12	1:D:3412:LEU:H	1.81	0.45
1:D:3644:LEU:HD21	1:D:3652:MET:SD	2.57	0.45
1:D:3813:GLN:NE2	1:D:3890:LEU:O	2.50	0.45
1:D:3950:ASN:O	1:D:3953:LYS:HG2	2.16	0.45
1:D:4837:LEU:HG	1:D:4935:LEU:HD22	1.99	0.45
1:C:168:ASP:HB3	1:C:199:LEU:HD21	1.98	0.45
1:C:623:GLU:OE2	1:C:1680:ARG:NH1	2.49	0.45
1:C:1111:PRO:HD3	1:C:1605:TRP:NE1	2.31	0.45
1:C:2287:ALA:O	1:C:2290:LEU:HB2	2.17	0.45
1:C:2312:MET:O	1:C:2316:LYS:N	2.46	0.45
1:C:2430:ILE:HG13	1:C:2502:MET:HE1	1.99	0.45
1:C:2574:HIS:CD2	1:C:2574:HIS:H	2.35	0.45
1:C:2819:TRP:HE1	1:C:2881:ASN:CG	2.20	0.45
1:C:2883:HIS:CE1	1:C:2905:LEU:HD22	2.48	0.45
1:C:3179:LYS:HD3	1:C:3179:LYS:N	2.31	0.45
1:C:3308:THR:OG1	1:C:3310:ASP:OD2	2.16	0.45
1:C:3893:GLU:HA	1:C:3967:GLU:OE1	2.17	0.45
1:A:437:PRO:O	1:A:441:VAL:HG12	2.16	0.45
1:A:441:VAL:O	1:A:445:LEU:HG	2.17	0.45
1:A:579:GLN:HE22	1:A:582:HIS:CE1	2.35	0.45
1:A:1088:TRP:HA	1:A:1224:GLU:O	2.17	0.45
1:A:1111:PRO:HD3	1:A:1605:TRP:NE1	2.31	0.45
1:A:1213:PHE:HD1	1:A:1216:ILE:HD12	1.82	0.45
1:A:1237:TRP:HE3	1:A:1605:TRP:HB3	1.82	0.45
1:A:1476:MET:O	1:A:1484:HIS:N	2.49	0.45
1:A:1691:GLN:O	1:A:1695:LEU:HG	2.17	0.45
1:A:1843:LYS:HE2	1:A:1938:GLN:HG2	1.98	0.45
1:A:2231:SER:HA	1:A:2234:ARG:NE	2.32	0.45
1:A:2496:PRO:HB3	1:A:2553:TYR:CE2	2.52	0.45
1:A:2500:ALA:HB2	1:A:2553:TYR:HD1	1.80	0.45
1:A:2751:LEU:O	1:A:2755:ILE:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3369:ALA:O	1:A:3373:VAL:HG13	2.17	0.45
1:A:3950:ASN:O	1:A:3953:LYS:HG2	2.16	0.45
1:A:4698:LYS:HD3	1:A:4698:LYS:N	2.31	0.45
1:A:4961:CYS:SG	1:A:4963:ILE:HD12	2.57	0.45
1:B:489:ASN:HB3	1:B:493:ARG:HH21	1.82	0.45
1:B:1088:TRP:HA	1:B:1224:GLU:O	2.17	0.45
1:B:1101:ARG:HD3	1:B:1125:ASN:HB2	1.98	0.45
1:B:1280:GLN:OE1	1:B:1281:ASN:N	2.38	0.45
1:B:1716:ILE:HG23	1:B:1847:THR:HG21	1.98	0.45
1:B:2094:LEU:HD23	1:B:2094:LEU:H	1.81	0.45
1:B:2301:TYR:HB3	1:B:2331:TYR:CE2	2.51	0.45
1:B:2585:THR:O	1:B:2589:LEU:HG	2.17	0.45
1:B:2760:GLU:HG2	1:B:2797:PHE:CZ	2.52	0.45
1:B:3571:TRP:HE3	1:B:3575:LEU:HD23	1.81	0.45
1:B:4668:LEU:O	1:B:4672:LYS:HG3	2.16	0.45
1:B:4686:LEU:HA	1:B:4690:GLU:HB2	1.98	0.45
1:D:1119:GLU:OE2	1:D:1119:GLU:N	2.47	0.45
1:D:2036:GLN:NE2	1:D:2045:GLN:OE1	2.50	0.45
1:D:2094:LEU:HD23	1:D:2094:LEU:H	1.81	0.45
1:D:3999:MET:N	1:D:3999:MET:SD	2.90	0.45
1:D:4866:SER:OG	1:D:4868:ASP:O	2.33	0.45
1:C:230:CYS:SG	1:C:258:SER:HB2	2.57	0.45
1:C:474:ARG:O	1:C:478:PHE:HD1	1.99	0.45
1:C:1088:TRP:HA	1:C:1224:GLU:O	2.17	0.45
1:C:1691:GLN:O	1:C:1695:LEU:HG	2.17	0.45
1:C:1843:LYS:HE2	1:C:1938:GLN:HG2	1.98	0.45
1:C:1924:GLU:N	1:C:1924:GLU:OE2	2.48	0.45
1:C:2384:ILE:HG22	1:C:2388:GLU:OE2	2.16	0.45
1:C:2527:LEU:O	1:C:2530:MET:HE3	2.16	0.45
1:C:2615:ARG:HB2	1:C:2618:MET:HG3	1.98	0.45
1:C:2870[B]:GLU:OE2	1:C:2939:ARG:NE	2.50	0.45
1:C:3253:ILE:HG22	1:C:3318:ASN:HB3	1.99	0.45
1:C:3368:ARG:HH22	1:C:3405:LEU:HD11	1.81	0.45
1:C:3644:LEU:HD21	1:C:3652:MET:SD	2.57	0.45
1:C:3768:SER:HA	1:C:3771:HIS:CD2	2.52	0.45
1:C:3787:LYS:HE3	1:C:3787:LYS:HB2	1.57	0.45
1:C:3813:GLN:NE2	1:C:3890:LEU:O	2.50	0.45
1:C:3821:LYS:O	1:C:3824:LYS:HE3	2.17	0.45
1:C:3950:ASN:O	1:C:3953:LYS:HG2	2.16	0.45
1:C:4634:GLU:HG2	1:C:4639:MET:HG2	1.98	0.45
1:C:4961:CYS:SG	1:C:4963:ILE:HD12	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:421:PHE:HE2	1:A:436:LEU:HD21	1.82	0.45
1:A:874:LEU:HD22	1:A:1049:TYR:CE2	2.51	0.45
1:A:1000:ARG:HB3	1:A:1021:LEU:HD12	1.99	0.45
1:A:1237:TRP:CE2	1:A:1607:ARG:HB2	2.52	0.45
1:A:1447:CYS:HB3	1:A:1555:LEU:HB3	1.99	0.45
1:A:1973:GLN:OE1	1:A:3641:LEU:HG	2.17	0.45
1:A:2967:MET:HA	1:A:2970:SER:HB3	1.97	0.45
1:A:3768:SER:HA	1:A:3771:HIS:CD2	2.52	0.45
1:A:4184:MET:SD	1:A:4188:ARG:NH2	2.77	0.45
1:A:4879:MET:CG	1:D:4578:LEU:HD12	2.43	0.45
2:E:71:ARG:HA	2:E:102:GLU:OE2	2.16	0.45
2:G:7:ILE:CB	1:C:719:LEU:HD21	2.46	0.45
1:B:1476:MET:O	1:B:1484:HIS:N	2.49	0.45
1:B:1623:ARG:NH2	1:B:1624:LEU:HA	2.32	0.45
1:B:1966:VAL:HG11	1:B:3650:CYS:SG	2.57	0.45
1:B:2287:ALA:O	1:B:2290:LEU:HB2	2.17	0.45
1:B:2902:HIS:CD2	1:B:2905:LEU:HG	2.52	0.45
1:B:3369:ALA:O	1:B:3373:VAL:HG13	2.17	0.45
1:B:3504:SER:O	1:B:3508:SER:N	2.48	0.45
1:B:4673:ARG:NH1	1:B:4782:VAL:HG22	2.32	0.45
1:B:4961:CYS:SG	1:B:4963:ILE:HD12	2.57	0.45
1:D:244:LEU:HB2	1:D:246:TYR:CZ	2.52	0.45
1:D:1000:ARG:HB3	1:D:1021:LEU:HD12	1.99	0.45
1:D:1252:HIS:CE1	1:D:1255:TYR:HD2	2.34	0.45
1:D:1843:LYS:HE2	1:D:1938:GLN:HG2	1.98	0.45
1:D:2015:GLU:HA	1:D:2018:GLU:HB2	1.97	0.45
1:D:2088:GLU:OE1	1:D:2088:GLU:N	2.50	0.45
1:D:2358:ILE:HG13	1:D:2359:ARG:NE	2.28	0.45
1:D:2496:PRO:HB3	1:D:2553:TYR:CE2	2.52	0.45
1:D:2555:CYS:CB	1:D:2599:GLN:HE21	2.27	0.45
1:D:2574:HIS:H	1:D:2574:HIS:CD2	2.35	0.45
1:D:3062:PRO:O	1:D:3065:VAL:HG22	2.17	0.45
1:D:3243:ILE:H	1:D:3243:ILE:HD12	1.82	0.45
1:D:3821:LYS:O	1:D:3824:LYS:HE3	2.17	0.45
1:D:4562:LEU:HD23	1:D:4657:CYS:SG	2.57	0.45
1:D:4716:TRP:CG	6:D:5304:A1BD2:C4	2.99	0.45
1:D:4755:GLU:OE1	1:D:4755:GLU:N	2.33	0.45
1:C:554:LEU:HD11	1:C:1593:PRO:HD3	1.99	0.45
1:C:2496:PRO:HB3	1:C:2553:TYR:CE2	2.52	0.45
1:C:3053:ARG:HD3	1:C:3056:LEU:HD13	1.99	0.45
1:C:4682:GLU:OE1	1:C:4723:LYS:HE2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4715:TYR:CE2	1:C:4717:ASP:HB3	2.51	0.45
1:A:1230:MET:HG3	1:A:1234:VAL:HG23	1.99	0.45
1:A:1433:TYR:CE2	1:A:1573:MET:HB2	2.51	0.45
1:A:1660:GLN:O	1:A:1660:GLN:NE2	2.48	0.45
1:A:2122:SER:HA	1:A:3721:LEU:HD11	1.99	0.45
1:A:2170:MET:SD	1:A:2171:GLY:N	2.90	0.45
1:A:2312:MET:O	1:A:2316:LYS:N	2.46	0.45
1:A:2585:THR:O	1:A:2589:LEU:HG	2.17	0.45
1:A:2630:VAL:HG11	1:A:2678:LEU:HD22	1.98	0.45
1:A:3062:PRO:O	1:A:3065:VAL:HG22	2.17	0.45
1:A:3172:ILE:HD12	1:A:3173:TYR:N	2.32	0.45
1:A:3442:PHE:CZ	1:A:3605:HIS:HB3	2.52	0.45
1:A:3533:ILE:HG22	1:A:3537:LYS:HZ2	1.81	0.45
1:A:4060:LYS:HA	1:A:4063:ASP:OD2	2.17	0.45
1:A:4189:ARG:HH12	1:A:4191:GLU:HG3	1.81	0.45
1:A:4813:LEU:O	1:A:4816:ILE:HG22	2.17	0.45
1:B:230:CYS:SG	1:B:258:SER:HB2	2.57	0.45
1:B:483:MET:HE3	1:B:486:LEU:HD21	1.98	0.45
1:B:1213:PHE:HD1	1:B:1216:ILE:HD12	1.82	0.45
1:B:1251:GLU:OE1	1:B:1251:GLU:N	2.34	0.45
1:B:2384:ILE:HG22	1:B:2388:GLU:OE2	2.16	0.45
1:B:2552:ARG:HH11	1:B:2599:GLN:HE22	1.64	0.45
1:B:2870[B]:GLU:OE2	1:B:2939:ARG:NE	2.50	0.45
1:B:3035:GLU:O	1:B:3038:MET:HG3	2.17	0.45
1:B:3053:ARG:HD3	1:B:3056:LEU:HD13	1.99	0.45
1:B:4060:LYS:HA	1:B:4063:ASP:OD2	2.17	0.45
1:B:4584:ASP:OD1	1:B:4584:ASP:N	2.50	0.45
1:D:765:GLN:H	1:D:765:GLN:CD	2.19	0.45
1:D:954:LYS:HA	1:D:954:LYS:HD2	1.75	0.45
1:D:1154:ASP:HB3	1:D:1157:GLU:HB3	1.99	0.45
1:D:1433:TYR:CE2	1:D:1573:MET:HB2	2.51	0.45
1:D:2005:GLN:O	1:D:2009:LEU:HG	2.17	0.45
1:D:2627:VAL:HA	1:D:2678:LEU:HD11	1.98	0.45
1:D:2650:ARG:NH2	1:D:2651:CYS:SG	2.89	0.45
1:D:2819:TRP:HE1	1:D:2881:ASN:CG	2.20	0.45
1:D:2960:LEU:HD12	1:D:3035:GLU:HG2	1.99	0.45
1:D:3015:LEU:HB3	1:D:3026:GLY:HA2	1.99	0.45
1:D:3051:ARG:HA	1:D:3131:TYR:OH	2.17	0.45
1:D:3172:ILE:HD12	1:D:3173:TYR:N	2.32	0.45
1:D:4715:TYR:CE2	1:D:4717:ASP:HB3	2.51	0.45
1:C:472:ARG:NH2	1:C:533:ASN:HA	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:579:GLN:HE22	1:C:582:HIS:CE1	2.35	0.45
1:C:3059:THR:O	1:C:3062:PRO:HD2	2.17	0.45
1:C:3316:LEU:HD22	1:C:3346:VAL:HA	1.99	0.45
1:C:3514:LEU:HA	1:C:3517:MET:CG	2.47	0.45
1:C:3535:LEU:HD23	1:C:3556:ASN:HD21	1.81	0.45
1:C:3655:GLU:O	1:C:3658:LYS:HG2	2.17	0.45
1:C:3923:LEU:O	1:C:3927:GLN:HG3	2.17	0.45
1:C:4578:LEU:HD12	1:C:4579:PHE:H	1.82	0.45
1:C:4813:LEU:O	1:C:4816:ILE:HG22	2.17	0.45
1:A:244:LEU:HB2	1:A:246:TYR:CZ	2.52	0.45
1:A:382:GLY:O	1:A:383:HIS:ND1	2.48	0.45
1:A:474:ARG:O	1:A:478:PHE:HD1	1.99	0.45
1:A:545:ASP:N	1:A:545:ASP:OD1	2.50	0.45
1:A:1286:MET:HG3	1:A:1288:PHE:CZ	2.52	0.45
1:A:1452:TRP:CD1	1:A:1452:TRP:N	2.85	0.45
1:A:1623:ARG:NH2	1:A:1624:LEU:HA	2.32	0.45
1:A:2293:GLN:O	1:A:2296:GLU:HB2	2.17	0.45
1:A:2627:VAL:HA	1:A:2678:LEU:HD11	1.98	0.45
1:A:2902:HIS:CD2	1:A:2905:LEU:HG	2.52	0.45
1:A:2960:LEU:HD12	1:A:3035:GLU:HG2	1.99	0.45
1:A:2997:PHE:O	1:A:3001:ILE:HB	2.17	0.45
1:A:3035:GLU:O	1:A:3038:MET:HG3	2.17	0.45
1:A:3539:ARG:O	1:A:3542:LEU:HB2	2.16	0.45
1:A:3719:ASP:OD2	1:A:3722:TYR:N	2.49	0.45
1:A:3889:GLN:NE2	1:A:3967:GLU:HB2	2.32	0.45
1:A:4085:ARG:HB2	1:A:4087:LEU:HD23	1.99	0.45
1:A:4562:LEU:HD23	1:A:4657:CYS:SG	2.57	0.45
1:A:4579:PHE:HA	1:B:4880:MET:HE3	1.99	0.45
1:A:4584:ASP:OD1	1:A:4584:ASP:N	2.50	0.45
1:A:4686:LEU:HA	1:A:4690:GLU:HB2	1.98	0.45
1:A:4716:TRP:CG	6:A:5304:A1BD2:C4	2.99	0.45
2:H:40:ARG:HH21	2:H:102:GLU:HG2	1.81	0.45
1:B:244:LEU:HB2	1:B:246:TYR:CZ	2.52	0.45
1:B:342:GLY:HA2	1:B:390:LEU:O	2.17	0.45
1:B:1237:TRP:CE2	1:B:1607:ARG:HB2	2.52	0.45
1:B:2088:GLU:N	1:B:2088:GLU:OE1	2.50	0.45
1:B:2231:SER:HB3	1:B:2234:ARG:HH21	1.82	0.45
1:B:3059:THR:O	1:B:3062:PRO:HD2	2.17	0.45
1:B:3062:PRO:O	1:B:3065:VAL:HG22	2.17	0.45
1:B:3327:LEU:HB2	1:B:3364:ARG:NH2	2.32	0.45
1:B:3368:ARG:HH22	1:B:3405:LEU:HD11	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3428:ASN:OD1	1:B:3431:ALA:N	2.45	0.45
1:B:3923:LEU:O	1:B:3927:GLN:HG3	2.17	0.45
1:B:4904:PRO:HB2	1:B:4910:GLU:HB2	1.99	0.45
1:D:276:TRP:H	1:D:338:GLU:HG2	1.81	0.45
1:D:1085:SER:OG	1:D:1086:GLY:N	2.50	0.45
1:D:1252:HIS:HE1	1:D:1255:TYR:CD2	2.34	0.45
1:D:1810:LYS:O	1:D:1814:MET:SD	2.75	0.45
1:D:2189:LYS:NZ	1:D:2192:TYR:HB2	2.29	0.45
1:D:2502:MET:N	1:D:2502:MET:SD	2.89	0.45
1:D:3256:LEU:HB3	1:D:3266:MET:HE2	1.99	0.45
1:D:3514:LEU:HA	1:D:3517:MET:CG	2.46	0.45
1:D:3652:MET:HG2	1:D:3652:MET:H	1.60	0.45
1:D:4189:ARG:HH12	1:D:4191:GLU:HG3	1.81	0.45
1:D:4634:GLU:HG2	1:D:4639:MET:HG2	1.98	0.45
1:D:4673:ARG:NH1	1:D:4782:VAL:HG22	2.32	0.45
1:D:4995:LEU:HD22	1:D:5003:HIS:CE1	2.52	0.45
1:C:15:ARG:HD3	1:C:16:THR:N	2.31	0.45
1:C:484:LEU:HD23	1:C:539:LEU:HD12	1.99	0.45
1:C:734:GLY:O	1:C:736:HIS:ND1	2.50	0.45
1:C:2760:GLU:HG2	1:C:2797:PHE:CZ	2.52	0.45
1:C:3081:MET:HA	1:C:3089:LYS:HZ2	1.82	0.45
1:C:4562:LEU:HD23	1:C:4657:CYS:SG	2.57	0.45
1:A:664:PHE:CE2	1:A:779:PRO:HB3	2.53	0.44
1:A:1966:VAL:HG11	1:A:3650:CYS:SG	2.57	0.44
1:A:2107:GLN:NE2	1:A:3681:GLY:H	2.15	0.44
1:A:2902:HIS:HB3	1:A:2905:LEU:HB2	1.99	0.44
1:A:3179:LYS:HD3	1:A:3179:LYS:N	2.31	0.44
1:A:3232:LEU:HD13	1:A:3232:LEU:HA	1.84	0.44
1:A:3253:ILE:HG22	1:A:3318:ASN:HB3	1.99	0.44
1:A:4904:PRO:HB2	1:A:4910:GLU:HB2	1.99	0.44
1:B:510:GLU:OE1	1:B:510:GLU:N	2.49	0.44
1:B:931:THR:HG21	1:B:991:ASN:HD22	1.81	0.44
1:B:1106:ARG:HH11	1:B:1108:GLU:CD	2.21	0.44
1:B:1496:TRP:CE2	1:B:1498:GLY:HA3	2.52	0.44
1:B:1691:GLN:O	1:B:1695:LEU:HG	2.17	0.44
1:B:2231:SER:HA	1:B:2234:ARG:NE	2.31	0.44
1:B:3368:ARG:HA	1:B:3371:LYS:HE2	1.98	0.44
1:B:3768:SER:HA	1:B:3771:HIS:CD2	2.52	0.44
1:B:3821:LYS:O	1:B:3824:LYS:HE3	2.17	0.44
1:B:3889:GLN:NE2	1:B:3967:GLU:HB2	2.32	0.44
1:B:4682:GLU:OE1	1:B:4723:LYS:HE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:579:GLN:HB2	1:D:581:ASN:OD1	2.17	0.44
1:D:1033:ARG:HA	1:D:1036:ARG:NH1	2.32	0.44
1:D:1973:GLN:OE1	1:D:3641:LEU:HG	2.17	0.44
1:D:2751:LEU:O	1:D:2755:ILE:HG13	2.17	0.44
1:D:3059:THR:O	1:D:3062:PRO:HD2	2.17	0.44
1:D:3621:HIS:CE1	1:D:3623:LEU:HD23	2.52	0.44
1:D:3893:GLU:HA	1:D:3967:GLU:OE1	2.17	0.44
1:D:4723:LYS:HB2	1:D:4723:LYS:HE2	1.79	0.44
1:D:4813:LEU:O	1:D:4816:ILE:HG22	2.17	0.44
1:C:342:GLY:HA2	1:C:390:LEU:O	2.17	0.44
1:C:613:ALA:HB3	1:C:1676:LEU:HD13	1.99	0.44
1:C:1085:SER:OG	1:C:1086:GLY:N	2.50	0.44
1:C:1106:ARG:HH11	1:C:1108:GLU:CD	2.21	0.44
1:C:1252:HIS:CE1	1:C:1255:TYR:HD2	2.34	0.44
1:C:2328:GLY:HA3	1:C:2425:PHE:HE2	1.81	0.44
1:C:3172:ILE:HD12	1:C:3173:TYR:N	2.32	0.44
1:C:3506:GLN:H	1:C:3506:GLN:CD	2.20	0.44
1:C:4189:ARG:HH12	1:C:4191:GLU:HG3	1.81	0.44
1:A:910:PHE:HB2	1:A:918:ARG:HD3	1.98	0.44
1:A:1220:GLN:CD	1:D:3522:LEU:HB3	2.37	0.44
1:A:1496:TRP:CE2	1:A:1498:GLY:HA3	2.52	0.44
1:A:2237:CYS:HA	1:A:2240:CYS:SG	2.57	0.44
1:A:3015:LEU:HB3	1:A:3026:GLY:HA2	1.99	0.44
1:A:3575:LEU:HD21	1:B:1208:VAL:CG1	2.47	0.44
1:A:3621:HIS:CE1	1:A:3623:LEU:HD23	2.52	0.44
1:A:3923:LEU:O	1:A:3927:GLN:HG3	2.17	0.44
1:A:4837:LEU:HG	1:A:4935:LEU:HD22	1.99	0.44
1:A:4995:LEU:HD22	1:A:5003:HIS:CE1	2.52	0.44
2:G:84:ALA:O	2:G:93:PRO:HB3	2.17	0.44
1:B:179:TYR:HB3	1:B:197:GLN:HA	1.99	0.44
1:B:411:TYR:HE1	1:B:441:VAL:HG23	1.83	0.44
1:B:579:GLN:HB2	1:B:581:ASN:OD1	2.17	0.44
1:B:613:ALA:HB3	1:B:1676:LEU:HD13	2.00	0.44
1:B:738:LEU:H	1:B:738:LEU:HD12	1.83	0.44
1:B:1033:ARG:HA	1:B:1036:ARG:NH1	2.32	0.44
1:B:1579:MET:HE1	1:B:1595:LEU:HD13	1.99	0.44
1:B:2107:GLN:NE2	1:B:3683:GLN:OE1	2.31	0.44
1:B:2170:MET:SD	1:B:2171:GLY:N	2.90	0.44
1:B:2255:SER:O	1:B:2297:LYS:NZ	2.49	0.44
1:B:2336:ARG:HG3	1:B:2431:ASP:OD2	2.17	0.44
1:B:2819:TRP:HE1	1:B:2881:ASN:CG	2.20	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2997:PHE:O	1:B:3001:ILE:HB	2.17	0.44
1:B:3046:LEU:O	1:B:3050:VAL:HG12	2.17	0.44
1:B:3655:GLU:O	1:B:3658:LYS:HG2	2.17	0.44
1:B:3813:GLN:NE2	1:B:3890:LEU:O	2.50	0.44
1:B:4189:ARG:HH12	1:B:4191:GLU:HG3	1.81	0.44
1:B:4562:LEU:HD23	1:B:4657:CYS:SG	2.57	0.44
1:B:4864:ASN:O	1:B:4865:LYS:HD3	2.18	0.44
1:D:734:GLY:O	1:D:736:HIS:ND1	2.50	0.44
1:D:892:THR:O	1:D:904:HIS:N	2.50	0.44
1:D:1452:TRP:CD1	1:D:1452:TRP:N	2.85	0.44
1:D:1452:TRP:CZ3	1:D:1550:PRO:HG3	2.52	0.44
1:D:2231:SER:HA	1:D:2234:ARG:NE	2.31	0.44
1:D:2381:GLU:HB2	1:D:2385:ARG:HH21	1.83	0.44
1:D:2503:VAL:HG11	1:D:2557:ALA:HB1	2.00	0.44
1:D:2630:VAL:HG11	1:D:2678:LEU:HD22	1.98	0.44
1:D:2870[B]:GLU:OE2	1:D:2939:ARG:NE	2.50	0.44
1:D:3384:LYS:HG3	1:D:3386:GLU:H	1.82	0.44
1:D:3506:GLN:H	1:D:3506:GLN:CD	2.20	0.44
1:D:3833:GLN:CD	1:D:3913:ILE:HG21	2.37	0.44
1:D:3906:GLN:NE2	1:D:3913:ILE:O	2.44	0.44
1:D:4060:LYS:HA	1:D:4063:ASP:OD2	2.17	0.44
1:D:4682:GLU:OE1	1:D:4723:LYS:HE2	2.17	0.44
1:D:4821:LYS:O	1:D:4821:LYS:HD3	2.18	0.44
1:D:4961:CYS:SG	1:D:4963:ILE:HD12	2.57	0.44
1:C:459:LEU:HB2	1:C:464:LYS:HG3	2.00	0.44
1:C:1033:ARG:HA	1:C:1036:ARG:NH1	2.32	0.44
1:C:1039:LEU:O	1:C:1043:VAL:HG23	2.17	0.44
1:C:1452:TRP:CZ3	1:C:1550:PRO:HG3	2.52	0.44
1:C:1568:LYS:HA	1:C:1568:LYS:HE3	1.98	0.44
1:C:1623:ARG:NH2	1:C:1624:LEU:HA	2.32	0.44
1:C:1973:GLN:OE1	1:C:3641:LEU:HG	2.17	0.44
1:C:2094:LEU:HA	1:C:2097:LEU:HG	2.00	0.44
1:C:2336:ARG:HG3	1:C:2431:ASP:OD2	2.17	0.44
1:C:2555:CYS:CB	1:C:2599:GLN:HE21	2.27	0.44
1:C:2770:LYS:HA	1:C:2786:LYS:HZ3	1.82	0.44
1:C:2825:LYS:HE3	1:C:2936:ALA:H	1.82	0.44
1:C:3369:ALA:O	1:C:3373:VAL:HG13	2.17	0.44
1:C:3442:PHE:CZ	1:C:3605:HIS:HB3	2.52	0.44
1:C:3629:ARG:O	1:C:3633:VAL:HG23	2.17	0.44
1:A:375:LYS:HD2	1:A:376:ALA:H	1.82	0.44
1:A:1815:LEU:O	1:A:1819:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2088:GLU:OE1	1:A:2088:GLU:N	2.50	0.44
1:A:2760:GLU:HG2	1:A:2797:PHE:CZ	2.52	0.44
1:A:3080:VAL:O	1:A:3089:LYS:NZ	2.51	0.44
1:A:3243:ILE:H	1:A:3243:ILE:HD12	1.82	0.44
1:A:3384:LYS:HG3	1:A:3386:GLU:H	1.82	0.44
1:A:3384:LYS:CG	1:A:3386:GLU:HG3	2.48	0.44
1:A:3666:ASP:OD2	1:A:3667:HIS:N	2.50	0.44
2:E:21:THR:OG1	2:E:107:GLU:HB2	2.17	0.44
2:H:52:LYS:HB3	2:H:54:GLU:OE1	2.17	0.44
1:B:459:LEU:HB2	1:B:464:LYS:HG3	1.99	0.44
1:B:575:LEU:HD11	1:B:606:LEU:HD12	1.99	0.44
1:B:734:GLY:O	1:B:736:HIS:ND1	2.50	0.44
1:B:1581:LEU:HA	1:B:1584:ARG:HB2	1.99	0.44
1:B:2094:LEU:HA	1:B:2097:LEU:HG	2.00	0.44
1:B:2770:LYS:HA	1:B:2786:LYS:HZ3	1.83	0.44
1:B:3080:VAL:O	1:B:3089:LYS:NZ	2.51	0.44
1:B:4150:LEU:HD23	1:B:4150:LEU:HA	1.76	0.44
1:B:4240:ASP:OD1	1:B:4675:LYS:NZ	2.35	0.44
1:B:4813:LEU:O	1:B:4816:ILE:HG22	2.17	0.44
1:D:179:TYR:HB3	1:D:197:GLN:HA	2.00	0.44
1:D:437:PRO:O	1:D:441:VAL:HG12	2.16	0.44
1:D:441:VAL:O	1:D:445:LEU:HG	2.17	0.44
1:D:459:LEU:HB2	1:D:464:LYS:HG3	2.00	0.44
1:D:545:ASP:N	1:D:545:ASP:OD1	2.50	0.44
1:D:579:GLN:HE22	1:D:582:HIS:CE1	2.35	0.44
1:D:681:HIS:O	1:D:784:SER:N	2.42	0.44
1:D:1111:PRO:HD3	1:D:1605:TRP:NE1	2.31	0.44
1:D:1237:TRP:CE2	1:D:1607:ARG:HB2	2.52	0.44
1:D:1581:LEU:HA	1:D:1584:ARG:HB2	1.99	0.44
1:D:1623:ARG:NH2	1:D:1624:LEU:HA	2.32	0.44
1:D:1658:ASP:OD1	1:D:1659:LEU:N	2.48	0.44
1:D:1966:VAL:HG11	1:D:3650:CYS:SG	2.57	0.44
1:D:2094:LEU:HA	1:D:2097:LEU:HG	2.00	0.44
1:D:2287:ALA:HA	1:D:2290:LEU:HD12	1.99	0.44
1:D:2328:GLY:HA3	1:D:2425:PHE:HE2	1.81	0.44
1:D:3132:THR:HG23	1:D:3136:LEU:HB2	2.00	0.44
1:D:3253:ILE:HG22	1:D:3318:ASN:HB3	1.99	0.44
1:D:3316:LEU:HD22	1:D:3346:VAL:HA	1.99	0.44
1:D:3535:LEU:HD23	1:D:3556:ASN:HD21	1.81	0.44
1:D:3563:VAL:HG23	1:D:3569:LEU:HB3	1.98	0.44
1:D:3655:GLU:O	1:D:3658:LYS:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3941:ASP:OD1	1:D:3941:ASP:N	2.51	0.44
1:D:4085:ARG:HB2	1:D:4087:LEU:HD23	1.99	0.44
1:C:244:LEU:HB2	1:C:246:TYR:CZ	2.52	0.44
1:C:411:TYR:HE1	1:C:441:VAL:HG23	1.83	0.44
1:C:437:PRO:O	1:C:441:VAL:HG12	2.16	0.44
1:C:595:ARG:HH22	1:C:1661:ARG:HH12	1.64	0.44
1:C:1000:ARG:HB3	1:C:1021:LEU:HD12	1.99	0.44
1:C:1966:VAL:HG11	1:C:3650:CYS:SG	2.57	0.44
1:C:2237:CYS:HA	1:C:2240:CYS:SG	2.57	0.44
1:C:2287:ALA:HA	1:C:2290:LEU:HD12	1.99	0.44
1:C:2980:VAL:HG11	1:C:2986:VAL:HG12	1.99	0.44
1:C:3384:LYS:HG3	1:C:3386:GLU:H	1.82	0.44
1:C:3812:VAL:O	1:C:3816:MET:HE2	2.17	0.44
1:C:3833:GLN:CD	1:C:3913:ILE:HG21	2.37	0.44
1:C:3889:GLN:NE2	1:C:3967:GLU:HB2	2.32	0.44
1:C:3941:ASP:OD1	1:C:3941:ASP:N	2.51	0.44
1:C:4821:LYS:O	1:C:4821:LYS:HD3	2.18	0.44
1:C:4866:SER:OG	1:C:4868:ASP:O	2.33	0.44
1:A:230:CYS:SG	1:A:258:SER:HB2	2.57	0.44
1:A:489:ASN:HB3	1:A:493:ARG:HH21	1.82	0.44
1:A:700:GLU:O	1:A:705:ASN:ND2	2.30	0.44
1:A:793:LEU:HD23	1:A:793:LEU:HA	1.83	0.44
1:A:1085:SER:OG	1:A:1086:GLY:N	2.50	0.44
1:A:1106:ARG:HH11	1:A:1108:GLU:CD	2.21	0.44
1:A:1154:ASP:HB3	1:A:1157:GLU:HB3	1.99	0.44
1:A:1671:ARG:NE	1:A:1671:ARG:O	2.51	0.44
1:A:2094:LEU:HD23	1:A:2094:LEU:H	1.81	0.44
1:A:2259:GLU:N	1:A:2297:LYS:HZ3	2.15	0.44
1:A:2819:TRP:HE1	1:A:2881:ASN:CG	2.20	0.44
1:A:2825:LYS:HE3	1:A:2936:ALA:H	1.82	0.44
1:A:3172:ILE:HD13	1:A:3194:LEU:CD2	2.47	0.44
1:A:4645:CYS:O	1:A:4649:LEU:HG	2.17	0.44
1:A:4821:LYS:O	1:A:4821:LYS:HD3	2.18	0.44
2:F:74:LEU:N	2:F:99:PHE:O	2.32	0.44
1:B:261:ARG:HB3	1:B:283:ARG:O	2.17	0.44
1:B:1093:GLU:N	1:B:1201:HIS:O	2.35	0.44
1:B:1748:PHE:CE1	1:B:1760:HIS:HA	2.53	0.44
1:B:1973:GLN:OE1	1:B:3641:LEU:HG	2.17	0.44
1:B:2825:LYS:HE3	1:B:2936:ALA:H	1.82	0.44
1:B:2883:HIS:CE1	1:B:2905:LEU:HD22	2.48	0.44
1:B:3256:LEU:HB3	1:B:3266:MET:HE2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3384:LYS:CG	1:B:3386:GLU:HG3	2.48	0.44
1:B:3545:THR:OG1	1:B:3547:GLU:OE1	2.21	0.44
1:B:4821:LYS:O	1:B:4821:LYS:HD3	2.18	0.44
1:D:38:ALA:HB2	1:D:65:CYS:SG	2.58	0.44
1:D:414:PHE:CZ	1:D:418:LEU:HD11	2.53	0.44
1:D:1131:ARG:NH1	1:D:1139:PHE:HB2	2.32	0.44
1:D:1671:ARG:NE	1:D:1671:ARG:O	2.51	0.44
1:D:1932:PRO:O	1:D:1936:LYS:HG3	2.18	0.44
1:D:2023:LEU:HD22	1:D:2027:ILE:HD13	2.00	0.44
1:D:2474:LEU:HD13	1:D:2496:PRO:HG3	2.00	0.44
1:D:2579:VAL:HA	1:D:2582:MET:SD	2.58	0.44
1:D:2760:GLU:HG2	1:D:2797:PHE:CZ	2.52	0.44
1:D:3105:LYS:HB2	1:D:3105:LYS:HE2	1.80	0.44
1:D:3384:LYS:CG	1:D:3386:GLU:HG3	2.48	0.44
1:C:892:THR:O	1:C:904:HIS:N	2.50	0.44
1:C:931:THR:HG21	1:C:991:ASN:HD22	1.81	0.44
1:C:2005:GLN:O	1:C:2009:LEU:HG	2.17	0.44
1:C:3048:ALA:O	1:C:3051:ARG:HB3	2.18	0.44
1:C:3062:PRO:O	1:C:3065:VAL:HG22	2.17	0.44
1:C:3243:ILE:H	1:C:3243:ILE:HD12	1.82	0.44
1:C:3666:ASP:OD2	1:C:3667:HIS:N	2.50	0.44
1:C:4645:CYS:O	1:C:4649:LEU:HG	2.17	0.44
1:C:4673:ARG:NH1	1:C:4782:VAL:HG22	2.32	0.44
1:C:4864:ASN:O	1:C:4865:LYS:HD3	2.18	0.44
1:A:38:ALA:HB2	1:A:65:CYS:SG	2.58	0.44
1:A:484:LEU:HD23	1:A:539:LEU:HD12	1.99	0.44
1:A:1932:PRO:O	1:A:1936:LYS:HG3	2.18	0.44
1:A:2094:LEU:HA	1:A:2097:LEU:HG	2.00	0.44
1:A:2675:THR:HG22	1:A:2710:LEU:HD21	2.00	0.44
1:A:2770:LYS:HA	1:A:2786:LYS:HZ3	1.83	0.44
1:A:2980:VAL:HG11	1:A:2986:VAL:HG12	1.99	0.44
1:A:3134:VAL:O	1:A:3138:PRO:HG2	2.18	0.44
1:A:3219:TYR:OH	1:A:3235:SER:N	2.51	0.44
1:A:3445:TRP:HA	1:A:3451:PHE:CD2	2.53	0.44
1:A:3813:GLN:NE2	1:A:3890:LEU:O	2.50	0.44
1:A:3999:MET:N	1:A:3999:MET:SD	2.90	0.44
2:H:55:VAL:HG13	1:D:1783:VAL:HG12	1.99	0.44
2:H:105:LYS:HD2	2:H:105:LYS:HA	1.68	0.44
1:B:414:PHE:CZ	1:B:418:LEU:HD11	2.53	0.44
1:B:579:GLN:HE22	1:B:582:HIS:CE1	2.35	0.44
1:B:592:LYS:HA	1:B:1580:PHE:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:663:TYR:CD2	1:B:804:PRO:HB3	2.53	0.44
1:B:892:THR:O	1:B:904:HIS:N	2.51	0.44
1:B:1154:ASP:HB3	1:B:1157:GLU:HB3	1.99	0.44
1:B:1230:MET:HG3	1:B:1234:VAL:HG23	1.99	0.44
1:B:1286:MET:HG3	1:B:1288:PHE:CZ	2.52	0.44
1:B:1660:GLN:O	1:B:1660:GLN:NE2	2.48	0.44
1:B:2005:GLN:O	1:B:2009:LEU:HG	2.17	0.44
1:B:2503:VAL:HG11	1:B:2557:ALA:HB1	2.00	0.44
1:B:2600:ARG:HA	1:B:2603:ILE:HD12	2.00	0.44
1:B:2960:LEU:HD12	1:B:3035:GLU:HG2	1.99	0.44
1:B:3132:THR:HG23	1:B:3136:LEU:HB2	2.00	0.44
1:B:3540:TYR:CZ	1:B:3549:VAL:HG21	2.53	0.44
1:B:3629:ARG:O	1:B:3633:VAL:HG23	2.18	0.44
1:D:392:ARG:HD2	1:D:393:CYS:N	2.33	0.44
1:D:551:LEU:HB3	1:D:589:LEU:HD11	1.99	0.44
1:D:829:TYR:O	1:D:840:VAL:N	2.45	0.44
1:D:892:THR:OG1	1:D:902:ARG:O	2.21	0.44
1:D:2293:GLN:O	1:D:2296:GLU:HB2	2.17	0.44
1:D:2825:LYS:HE3	1:D:2936:ALA:H	1.82	0.44
1:D:3048:ALA:O	1:D:3051:ARG:HB3	2.18	0.44
1:D:3547:GLU:H	1:D:3547:GLU:CD	2.19	0.44
1:D:5012:LYS:HE2	1:D:5012:LYS:HA	1.98	0.44
1:C:316:PHE:HB3	1:C:346:CYS:SG	2.58	0.44
1:C:575:LEU:HA	1:C:575:LEU:HD12	1.76	0.44
1:C:738:LEU:H	1:C:738:LEU:HD12	1.83	0.44
1:C:1932:PRO:O	1:C:1936:LYS:HG3	2.18	0.44
1:C:2552:ARG:HH11	1:C:2599:GLN:HE22	1.64	0.44
1:C:3035:GLU:O	1:C:3038:MET:HG3	2.17	0.44
1:C:3046:LEU:O	1:C:3050:VAL:HG12	2.17	0.44
1:C:3134:VAL:O	1:C:3138:PRO:HG2	2.18	0.44
1:C:3384:LYS:CG	1:C:3386:GLU:HG3	2.48	0.44
1:C:3571:TRP:HE3	1:C:3575:LEU:HD23	1.81	0.44
1:C:3999:MET:N	1:C:3999:MET:SD	2.90	0.44
1:C:4717:ASP:C	1:C:4718:LYS:HD3	2.38	0.44
1:A:316:PHE:HB3	1:A:346:CYS:SG	2.58	0.44
1:A:414:PHE:CZ	1:A:418:LEU:HD11	2.53	0.44
1:A:462:GLU:OE2	1:A:462:GLU:N	2.38	0.44
1:A:483:MET:HE3	1:A:486:LEU:HD21	1.98	0.44
1:A:1033:ARG:HA	1:A:1036:ARG:NH1	2.32	0.44
1:A:1252:HIS:CE1	1:A:1255:TYR:HD2	2.34	0.44
1:A:2336:ARG:HG3	1:A:2431:ASP:OD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2552:ARG:HH11	1:A:2599:GLN:HE22	1.64	0.44
1:A:3368:ARG:O	1:A:3372:VAL:HG22	2.18	0.44
1:A:3527:PRO:HA	1:A:3530:GLN:CG	2.48	0.44
1:A:3620:TRP:HD1	1:A:3622:LYS:HZ2	1.65	0.44
1:A:3629:ARG:O	1:A:3633:VAL:HG23	2.18	0.44
1:A:4124:ASN:ND2	1:A:4126:GLU:OE2	2.51	0.44
1:A:4232:GLU:HB2	1:A:5019:TRP:HE1	1.83	0.44
1:A:4682:GLU:OE1	1:A:4723:LYS:HE2	2.17	0.44
1:B:421:PHE:HE2	1:B:436:LEU:HD21	1.82	0.44
1:B:462:GLU:H	1:B:462:GLU:CD	2.19	0.44
1:B:484:LEU:HD23	1:B:539:LEU:HD12	1.99	0.44
1:B:983:THR:O	1:B:987:ARG:HG3	2.18	0.44
1:B:1452:TRP:CZ3	1:B:1550:PRO:HG3	2.52	0.44
1:B:1807:LEU:HD23	1:B:1848:LEU:HD21	2.00	0.44
1:B:1815:LEU:O	1:B:1819:VAL:HG23	2.18	0.44
1:B:2902:HIS:HB3	1:B:2905:LEU:HB2	1.99	0.44
1:B:3068:LEU:HD13	1:B:3139:VAL:HG11	2.00	0.44
1:B:3253:ILE:HG22	1:B:3318:ASN:HB3	1.99	0.44
1:B:3445:TRP:HA	1:B:3451:PHE:CD2	2.53	0.44
1:B:3666:ASP:OD2	1:B:3667:HIS:N	2.50	0.44
1:D:23:GLN:HB3	1:D:34:LYS:HZ3	1.82	0.44
1:D:411:TYR:HE1	1:D:441:VAL:HG23	1.83	0.44
1:D:471:LEU:HA	1:D:474:ARG:NH1	2.33	0.44
1:D:489:ASN:HB3	1:D:493:ARG:HH21	1.82	0.44
1:D:1106:ARG:HH11	1:D:1108:GLU:CD	2.21	0.44
1:D:1230:MET:HG3	1:D:1234:VAL:HG23	1.99	0.44
1:D:1691:GLN:O	1:D:1695:LEU:HG	2.17	0.44
1:D:1748:PHE:CE1	1:D:1760:HIS:HA	2.53	0.44
1:D:2336:ARG:HG3	1:D:2431:ASP:OD2	2.17	0.44
1:D:2538:THR:O	1:D:2542:SER:OG	2.23	0.44
1:D:2798:SER:HB2	1:D:2800:LYS:NZ	2.33	0.44
1:D:3051:ARG:O	1:D:3053:ARG:NH2	2.45	0.44
1:D:3368:ARG:HA	1:D:3371:LYS:HE2	1.99	0.44
1:D:3369:ALA:O	1:D:3373:VAL:HG13	2.17	0.44
1:D:3525:CYS:SG	1:D:3599:VAL:HG11	2.58	0.44
1:D:3629:ARG:O	1:D:3633:VAL:HG23	2.18	0.44
1:D:4124:ASN:ND2	1:D:4126:GLU:OE2	2.51	0.44
1:D:4645:CYS:O	1:D:4649:LEU:HG	2.17	0.44
1:D:4843:LEU:HD22	1:C:4823:LEU:HD22	1.98	0.44
1:C:38:ALA:HB2	1:C:65:CYS:SG	2.58	0.44
1:C:283:ARG:HH11	1:C:288:GLY:HA2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:414:PHE:CZ	1:C:418:LEU:HD11	2.53	0.44
1:C:1242:LEU:HD21	1:C:1458:HIS:CD2	2.53	0.44
1:C:1815:LEU:O	1:C:1819:VAL:HG23	2.18	0.44
1:C:2122:SER:HA	1:C:3721:LEU:HD11	1.99	0.44
1:C:2293:GLN:O	1:C:2296:GLU:HB2	2.18	0.44
1:C:3051:ARG:HA	1:C:3131:TYR:OH	2.17	0.44
1:C:3132:THR:HG23	1:C:3136:LEU:HB2	2.00	0.44
1:C:3256:LEU:HB3	1:C:3266:MET:HE2	1.99	0.44
1:C:4584:ASP:N	1:C:4584:ASP:OD1	2.50	0.44
1:C:4995:LEU:HD22	1:C:5003:HIS:CE1	2.52	0.44
1:A:267:ILE:O	1:A:270:SER:OG	2.24	0.44
1:A:411:TYR:HE1	1:A:441:VAL:HG23	1.83	0.44
1:A:575:LEU:HD11	1:A:606:LEU:HD12	2.00	0.44
1:A:738:LEU:HD12	1:A:738:LEU:H	1.83	0.44
1:A:892:THR:O	1:A:904:HIS:N	2.50	0.44
1:A:2023:LEU:HD22	1:A:2027:ILE:HD13	2.00	0.44
1:A:2231:SER:HB3	1:A:2234:ARG:HH21	1.81	0.44
1:A:2288:LEU:HB3	1:A:3849:ARG:HG3	1.99	0.44
1:A:2798:SER:HB2	1:A:2800:LYS:NZ	2.33	0.44
1:A:3173:TYR:CG	1:A:3243:ILE:HG13	2.53	0.44
2:H:53:GLN:NE2	2:H:57:ARG:HB2	2.31	0.44
2:G:17:LYS:O	2:G:17:LYS:HD3	2.18	0.44
1:B:54:ASN:HB3	1:B:57:ASN:HB2	1.99	0.44
1:B:554:LEU:HD11	1:B:1593:PRO:HD3	1.99	0.44
1:B:582:HIS:O	1:B:585:SER:OG	2.28	0.44
1:B:2122:SER:HA	1:B:3721:LEU:HD11	1.99	0.44
1:B:2293:GLN:O	1:B:2296:GLU:HB2	2.17	0.44
1:B:2381:GLU:HB2	1:B:2385:ARG:HH21	1.83	0.44
1:B:3219:TYR:OH	1:B:3235:SER:N	2.51	0.44
1:B:3478:MET:O	1:C:1141:ARG:HB2	2.18	0.44
1:B:3621:HIS:CE1	1:B:3623:LEU:HD23	2.52	0.44
1:B:3829:PHE:CE2	1:B:3906:GLN:HG2	2.53	0.44
1:B:3893:GLU:HA	1:B:3967:GLU:OE1	2.17	0.44
1:B:4067:LYS:HB2	1:B:4067:LYS:HE3	1.75	0.44
1:B:4085:ARG:HB2	1:B:4087:LEU:HD23	1.99	0.44
1:B:4124:ASN:ND2	1:B:4126:GLU:OE2	2.51	0.44
1:B:4232:GLU:HB2	1:B:5019:TRP:HE1	1.83	0.44
1:D:469:ARG:NH2	1:D:3710:LEU:O	2.48	0.44
1:D:592:LYS:HA	1:D:1580:PHE:CE2	2.52	0.44
1:D:1093:GLU:N	1:D:1201:HIS:O	2.35	0.44
1:D:1242:LEU:HD21	1:D:1458:HIS:CD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1286:MET:HG3	1:D:1288:PHE:CZ	2.52	0.44
1:D:2170:MET:SD	1:D:2171:GLY:N	2.90	0.44
1:D:3046:LEU:O	1:D:3050:VAL:HG12	2.17	0.44
1:D:3172:ILE:HD13	1:D:3194:LEU:CD2	2.47	0.44
1:D:3219:TYR:OH	1:D:3235:SER:N	2.51	0.44
1:D:3442:PHE:CZ	1:D:3605:HIS:HB3	2.52	0.44
1:D:3889:GLN:NE2	1:D:3967:GLU:HB2	2.32	0.44
1:D:4578:LEU:HD12	1:D:4579:PHE:H	1.82	0.44
1:D:4584:ASP:OD1	1:D:4584:ASP:N	2.50	0.44
1:D:4877:ASP:HA	1:C:4582:VAL:HG22	2.00	0.44
1:C:441:VAL:O	1:C:445:LEU:HG	2.17	0.44
1:C:663:TYR:CD2	1:C:804:PRO:HB3	2.53	0.44
1:C:860:GLN:O	1:C:930:LYS:HD3	2.17	0.44
1:C:1496:TRP:CE2	1:C:1498:GLY:HA3	2.52	0.44
1:C:1612:PHE:O	1:C:1614:GLN:NE2	2.44	0.44
1:C:2902:HIS:HB3	1:C:2905:LEU:HB2	1.99	0.44
1:C:2960:LEU:HD12	1:C:3035:GLU:HG2	1.99	0.44
1:C:3196:ARG:NH1	1:C:3196:ARG:HA	2.33	0.44
1:C:3219:TYR:OH	1:C:3235:SER:N	2.51	0.44
1:C:3540:TYR:CZ	1:C:3549:VAL:HG21	2.53	0.44
1:C:3563:VAL:HG23	1:C:3569:LEU:HB3	1.98	0.44
1:C:4060:LYS:HA	1:C:4063:ASP:OD2	2.17	0.44
1:C:5017:ARG:HG3	1:C:5017:ARG:HH11	1.83	0.44
1:A:592:LYS:HA	1:A:1580:PHE:CE2	2.52	0.44
1:A:734:GLY:O	1:A:736:HIS:ND1	2.50	0.44
1:A:884:LEU:HA	1:A:887:ILE:HG22	2.00	0.44
1:A:1261:ASP:OD2	1:A:1262:GLY:N	2.51	0.44
1:A:2313:LEU:HD12	1:A:2316:LYS:HE2	2.00	0.44
1:A:2579:VAL:HA	1:A:2582:MET:SD	2.58	0.44
1:A:2600:ARG:HA	1:A:2603:ILE:HD12	2.00	0.44
1:A:2757:LYS:HD3	1:A:2761:TYR:CD2	2.53	0.44
1:A:3525:CYS:SG	1:A:3599:VAL:HG11	2.58	0.44
1:A:3540:TYR:CZ	1:A:3549:VAL:HG21	2.53	0.44
1:A:3893:GLU:HA	1:A:3967:GLU:OE1	2.17	0.44
1:A:4243:PHE:O	1:A:4247:ILE:HG12	2.18	0.44
1:A:4717:ASP:C	1:A:4718:LYS:HD3	2.38	0.44
2:E:87:HIS:HB3	2:E:91:ILE:H	1.83	0.44
1:B:38:ALA:HB2	1:B:65:CYS:SG	2.58	0.44
1:B:267:ILE:O	1:B:270:SER:OG	2.24	0.44
1:B:469:ARG:NH2	1:B:3710:LEU:O	2.48	0.44
1:B:471:LEU:HA	1:B:474:ARG:NH1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:892:THR:OG1	1:B:902:ARG:O	2.21	0.44
1:B:1290:ARG:HB3	1:B:1598:GLN:HB2	2.00	0.44
1:B:1643:GLU:H	1:B:1643:GLU:CD	2.15	0.44
1:B:1932:PRO:O	1:B:1936:LYS:HG3	2.18	0.44
1:B:3172:ILE:HD12	1:B:3173:TYR:N	2.32	0.44
1:B:3243:ILE:HD12	1:B:3243:ILE:H	1.82	0.44
1:B:3384:LYS:HG3	1:B:3386:GLU:H	1.82	0.44
1:B:3451:PHE:HA	1:B:3454:GLU:OE2	2.18	0.44
1:B:3563:VAL:HG23	1:B:3569:LEU:HB3	1.98	0.44
1:B:3762:ARG:HH12	1:B:4753:HIS:C	2.22	0.44
1:B:4185:GLY:HA3	1:B:4189:ARG:O	2.18	0.44
1:D:316:PHE:HB3	1:D:346:CYS:SG	2.58	0.44
1:D:421:PHE:HE2	1:D:436:LEU:HD21	1.82	0.44
1:D:575:LEU:HD11	1:D:606:LEU:HD12	2.00	0.44
1:D:589:LEU:HA	1:D:592:LYS:HD3	2.00	0.44
1:D:931:THR:HG21	1:D:991:ASN:HD22	1.81	0.44
1:D:1815:LEU:O	1:D:1819:VAL:HG23	2.18	0.44
1:D:2643:LEU:HA	1:D:2646:ASN:ND2	2.33	0.44
1:D:2770:LYS:HA	1:D:2786:LYS:HZ3	1.83	0.44
1:D:3035:GLU:O	1:D:3038:MET:HG3	2.17	0.44
1:D:3068:LEU:HD13	1:D:3139:VAL:HG11	2.00	0.44
1:D:3527:PRO:HA	1:D:3530:GLN:CG	2.48	0.44
1:D:3768:SER:HA	1:D:3771:HIS:CD2	2.52	0.44
1:D:3825:GLU:OE2	1:D:3827:GLY:N	2.48	0.44
1:C:54:ASN:HB3	1:C:57:ASN:HB2	2.00	0.44
1:C:471:LEU:HA	1:C:474:ARG:NH1	2.33	0.44
1:C:613:ALA:H	1:C:1676:LEU:HD13	1.83	0.44
1:C:772:ASN:HB2	1:C:1470:ARG:HH11	1.83	0.44
1:C:983:THR:O	1:C:987:ARG:HG3	2.18	0.44
1:C:1261:ASP:OD2	1:C:1262:GLY:N	2.51	0.44
1:C:1748:PHE:CE1	1:C:1760:HIS:HA	2.53	0.44
1:C:1980:LEU:HD13	1:C:1994:ARG:HD3	2.00	0.44
1:C:2368:LEU:N	1:C:2374:SER:O	2.34	0.44
1:C:2798:SER:HB2	1:C:2800:LYS:NZ	2.33	0.44
1:C:3397:GLU:O	1:C:3400:VAL:HG22	2.18	0.44
1:C:3451:PHE:HA	1:C:3454:GLU:OE2	2.18	0.44
1:A:37:LEU:HD12	1:A:37:LEU:HA	1.80	0.44
1:A:159:GLU:OE2	1:A:160:GLY:N	2.48	0.44
1:A:261:ARG:HB3	1:A:283:ARG:O	2.17	0.44
1:A:426:ARG:HG3	1:A:431:PRO:HA	2.00	0.44
1:A:860:GLN:O	1:A:930:LYS:HD3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1220:GLN:HA	1:D:3522:LEU:HD22	1.99	0.44
1:A:1263:THR:N	1:A:1266:THR:O	2.33	0.44
1:A:1731:LEU:HA	1:A:1772:ARG:NH1	2.33	0.44
1:A:2503:VAL:HG11	1:A:2557:ALA:HB1	2.00	0.44
1:A:2522:LEU:HB3	1:A:2527:LEU:HG	2.00	0.44
1:A:3046:LEU:O	1:A:3050:VAL:HG12	2.17	0.44
1:A:3105:LYS:HB2	1:A:3105:LYS:HE2	1.80	0.44
1:A:3132:THR:HG23	1:A:3136:LEU:HB2	2.00	0.44
1:A:3236:VAL:HA	1:A:3239:MET:HE2	1.99	0.44
1:A:3316:LEU:HD22	1:A:3346:VAL:HA	1.99	0.44
1:A:3829:PHE:CE2	1:A:3906:GLN:HG2	2.53	0.44
1:A:3892:CYS:SG	1:A:3967:GLU:HG3	2.58	0.44
1:A:4160:LEU:HD12	1:A:4160:LEU:HA	1.89	0.44
2:G:42:ARG:HB3	2:G:44:LYS:NZ	2.33	0.44
1:B:316:PHE:HB3	1:B:346:CYS:SG	2.58	0.44
1:B:681:HIS:O	1:B:784:SER:N	2.42	0.44
1:B:978:THR:O	1:B:982:THR:HG23	2.18	0.44
1:B:1101:ARG:HB3	1:B:1123:VAL:HB	2.00	0.44
1:B:1980:LEU:HD13	1:B:1994:ARG:HD3	2.00	0.44
1:B:1987:SER:O	1:B:1991:THR:OG1	2.20	0.44
1:B:2023:LEU:HD22	1:B:2027:ILE:HD13	2.00	0.44
1:B:2675:THR:HG22	1:B:2710:LEU:HD21	2.00	0.44
1:B:3628:ARG:HD3	1:B:3632:VAL:HG13	2.00	0.44
1:B:4651:THR:HG1	1:B:4803:HIS:CD2	2.36	0.44
1:B:4717:ASP:C	1:B:4718:LYS:HD3	2.38	0.44
1:B:4995:LEU:HD22	1:B:5003:HIS:CE1	2.52	0.44
1:D:664:PHE:CE2	1:D:779:PRO:HB3	2.53	0.44
1:D:738:LEU:HD12	1:D:738:LEU:H	1.83	0.44
1:D:860:GLN:O	1:D:930:LYS:HD3	2.17	0.44
1:D:1516:ILE:HA	1:D:1531:ALA:HA	2.00	0.44
1:D:2237:CYS:HA	1:D:2240:CYS:SG	2.57	0.44
1:D:3134:VAL:O	1:D:3138:PRO:HG2	2.18	0.44
1:D:3540:TYR:CZ	1:D:3549:VAL:HG21	2.53	0.44
1:D:4864:ASN:O	1:D:4865:LYS:HD3	2.18	0.44
1:D:4961:CYS:SG	1:D:4983:HIS:CE1	3.11	0.44
1:C:426:ARG:HG3	1:C:431:PRO:HA	2.00	0.44
1:C:1263:THR:N	1:C:1266:THR:O	2.33	0.44
1:C:1716:ILE:HG23	1:C:1847:THR:HG21	1.98	0.44
1:C:2170:MET:SD	1:C:2171:GLY:N	2.90	0.44
1:C:2579:VAL:HA	1:C:2582:MET:SD	2.58	0.44
1:C:2600:ARG:HA	1:C:2603:ILE:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2757:LYS:HD3	1:C:2761:TYR:CD2	2.53	0.44
1:C:3015:LEU:HB3	1:C:3026:GLY:HA2	1.99	0.44
1:C:3051:ARG:O	1:C:3053:ARG:NH2	2.45	0.44
1:C:3172:ILE:HD13	1:C:3194:LEU:CD2	2.47	0.44
1:C:3762:ARG:HH12	1:C:4753:HIS:C	2.22	0.44
1:C:3885:PHE:CE1	1:C:3919:THR:HG23	2.53	0.44
1:C:4563:ARG:HA	1:C:4563:ARG:HD2	1.82	0.44
1:C:4837:LEU:HG	1:C:4935:LEU:HD22	1.99	0.44
1:A:471:LEU:HA	1:A:474:ARG:NH1	2.33	0.43
1:A:978:THR:O	1:A:982:THR:HG23	2.18	0.43
1:A:1280:GLN:OE1	1:A:1281:ASN:N	2.38	0.43
1:A:1577:ALA:HB1	1:A:1584:ARG:HA	2.00	0.43
1:A:1748:PHE:HE1	1:A:1760:HIS:HA	1.83	0.43
1:A:3825:GLU:OE2	1:A:3827:GLY:N	2.48	0.43
1:A:3844:LEU:HD23	1:A:3844:LEU:HA	1.84	0.43
1:A:4732:PHE:CE1	1:A:4736:ARG:HD2	2.53	0.43
1:A:4960:ILE:HG21	1:A:4988:TYR:HE2	1.83	0.43
1:B:375:LYS:HD2	1:B:376:ALA:H	1.82	0.43
1:B:884:LEU:HA	1:B:887:ILE:HG22	2.00	0.43
1:B:1242:LEU:HD21	1:B:1458:HIS:CD2	2.53	0.43
1:B:1671:ARG:O	1:B:1671:ARG:NE	2.51	0.43
1:B:2313:LEU:HD12	1:B:2316:LYS:HE2	2.00	0.43
1:B:2534:ALA:HB2	1:B:2585:THR:HG23	2.00	0.43
1:B:2574:HIS:H	1:B:2574:HIS:CD2	2.35	0.43
1:B:3051:ARG:HA	1:B:3131:TYR:OH	2.17	0.43
1:B:3478:MET:HE3	1:C:1141:ARG:NH1	2.24	0.43
1:B:3892:CYS:SG	1:B:3967:GLU:HG3	2.58	0.43
1:B:4578:LEU:HD12	1:B:4579:PHE:H	1.82	0.43
1:B:4723:LYS:HE2	1:B:4723:LYS:HB2	1.79	0.43
1:B:4732:PHE:CE1	1:B:4736:ARG:HD2	2.53	0.43
1:D:267:ILE:O	1:D:270:SER:OG	2.24	0.43
1:D:753:PRO:HB2	1:D:771:PHE:CZ	2.53	0.43
1:D:1106:ARG:CZ	1:D:1109:LEU:HA	2.48	0.43
1:D:1213:PHE:HD1	1:D:1216:ILE:HD12	1.82	0.43
1:D:1496:TRP:CE2	1:D:1498:GLY:HA3	2.52	0.43
1:D:2287:ALA:O	1:D:2290:LEU:HB2	2.17	0.43
1:D:2360:LYS:O	1:D:2363:CYS:HB2	2.18	0.43
1:D:2675:THR:HG22	1:D:2710:LEU:HD21	2.00	0.43
1:D:3397:GLU:O	1:D:3400:VAL:HG22	2.18	0.43
1:D:3666:ASP:OD2	1:D:3667:HIS:N	2.51	0.43
1:D:4069:LYS:HD2	1:D:4069:LYS:HA	1.78	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:111:HIS:HD2	1:C:114:SER:HB3	1.83	0.43
1:C:421:PHE:HE2	1:C:436:LEU:HD21	1.82	0.43
1:C:551:LEU:HB3	1:C:589:LEU:HD11	2.00	0.43
1:C:1447:CYS:HB3	1:C:1555:LEU:HB3	1.99	0.43
1:C:1807:LEU:HD23	1:C:1848:LEU:HD21	2.00	0.43
1:C:2503:VAL:HG11	1:C:2557:ALA:HB1	2.00	0.43
1:C:2751:LEU:O	1:C:2755:ILE:HG13	2.17	0.43
1:C:3035:GLU:HG3	1:C:3038:MET:HE3	2.00	0.43
1:C:3105:LYS:HB2	1:C:3105:LYS:HE2	1.80	0.43
1:C:3270:ILE:O	1:C:3275:PRO:HD3	2.18	0.43
1:C:3562:LYS:HD3	1:C:3562:LYS:HA	1.60	0.43
1:C:3621:HIS:CE1	1:C:3623:LEU:HD23	2.52	0.43
1:C:4160:LEU:HD12	1:C:4160:LEU:HA	1.89	0.43
1:C:4732:PHE:CE1	1:C:4736:ARG:HD2	2.53	0.43
1:A:179:TYR:HB3	1:A:197:GLN:HA	2.00	0.43
1:A:183:SER:OG	1:A:186:SER:OG	2.32	0.43
1:A:259:LEU:HD21	1:A:393:CYS:SG	2.58	0.43
1:A:392:ARG:HD2	1:A:393:CYS:N	2.33	0.43
1:A:459:LEU:HB2	1:A:464:LYS:HG3	1.99	0.43
1:A:551:LEU:HB3	1:A:589:LEU:HD11	1.99	0.43
1:A:925:SER:O	1:A:928:THR:OG1	2.30	0.43
1:A:1590:GLN:OE1	1:A:1590:GLN:N	2.51	0.43
1:A:2005:GLN:O	1:A:2009:LEU:HG	2.17	0.43
1:A:2381:GLU:HB2	1:A:2385:ARG:HH21	1.83	0.43
1:A:2643:LEU:HA	1:A:2646:ASN:ND2	2.33	0.43
1:A:3398:PHE:HD1	1:A:3401:LEU:HD11	1.84	0.43
1:A:3451:PHE:HA	1:A:3454:GLU:OE2	2.18	0.43
1:A:3522:LEU:HB3	1:B:1220:GLN:CG	2.48	0.43
1:A:4067:LYS:HB2	1:A:4067:LYS:HE3	1.75	0.43
2:E:22:CYS:HB2	2:E:48:PHE:CZ	2.53	0.43
2:E:66:MET:HE2	2:E:70:GLN:HG2	2.01	0.43
2:H:63:VAL:O	2:H:66:MET:HB3	2.18	0.43
2:G:93:PRO:O	2:G:94:HIS:ND1	2.51	0.43
2:F:22:CYS:HB2	2:F:48:PHE:CE1	2.54	0.43
2:F:25:HIS:HB2	2:F:104:LEU:HD21	2.00	0.43
1:B:663:TYR:CE1	1:B:745:SER:HB2	2.44	0.43
1:B:664:PHE:CE2	1:B:779:PRO:HB3	2.53	0.43
1:B:1106:ARG:HH21	1:B:1120:LEU:HD13	1.83	0.43
1:B:1590:GLN:OE1	1:B:1590:GLN:N	2.51	0.43
1:B:1731:LEU:HA	1:B:1772:ARG:NH1	2.33	0.43
1:B:2751:LEU:O	1:B:2755:ILE:HG13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3033:ASN:O	1:B:3037:GLU:HG2	2.18	0.43
1:B:3160:ASP:HA	1:B:3163:VAL:HG12	2.00	0.43
1:B:3196:ARG:NH1	1:B:3196:ARG:HA	2.33	0.43
1:B:3368:ARG:O	1:B:3372:VAL:HG22	2.18	0.43
1:B:3527:PRO:HA	1:B:3530:GLN:CG	2.48	0.43
1:B:4069:LYS:HD2	1:B:4069:LYS:HA	1.78	0.43
1:B:4159:ARG:HA	1:B:4162:ASN:ND2	2.32	0.43
1:D:157:ARG:HA	1:D:157:ARG:HD3	1.67	0.43
1:D:230:CYS:SG	1:D:258:SER:HB2	2.57	0.43
1:D:247:TYR:O	1:D:373:LYS:HA	2.18	0.43
1:D:663:TYR:CD2	1:D:804:PRO:HB3	2.53	0.43
1:D:663:TYR:CE1	1:D:745:SER:HB2	2.44	0.43
1:D:1074:ILE:HG12	1:D:1605:TRP:HH2	1.83	0.43
1:D:1274:HIS:CD2	1:D:1277:TRP:HB2	2.54	0.43
1:D:1731:LEU:HA	1:D:1772:ARG:NH1	2.33	0.43
1:D:1827:ARG:O	1:D:1829:PRO:HD3	2.18	0.43
1:D:2902:HIS:HB3	1:D:2905:LEU:HB2	1.99	0.43
1:D:2980:VAL:HG11	1:D:2986:VAL:HG12	1.99	0.43
1:D:3053:ARG:HD3	1:D:3056:LEU:HD13	1.99	0.43
1:D:3080:VAL:O	1:D:3089:LYS:NZ	2.51	0.43
1:D:3398:PHE:HD1	1:D:3401:LEU:HD11	1.84	0.43
1:D:3445:TRP:HA	1:D:3451:PHE:CD2	2.53	0.43
1:D:3589:PRO:O	1:D:3592:ILE:HG22	2.19	0.43
1:D:3812:VAL:O	1:D:3816:MET:HE2	2.18	0.43
1:D:3892:CYS:SG	1:D:3967:GLU:HG3	2.58	0.43
1:D:4561:THR:O	1:D:4565:LEU:HG	2.18	0.43
1:C:157:ARG:HD3	1:C:157:ARG:HA	1.67	0.43
1:C:1206:GLN:HA	1:C:1227:ALA:O	2.18	0.43
1:C:1671:ARG:NE	1:C:1671:ARG:O	2.51	0.43
1:C:1748:PHE:HE1	1:C:1760:HIS:HA	1.83	0.43
1:C:2023:LEU:HD22	1:C:2027:ILE:HD13	2.00	0.43
1:C:2381:GLU:HB2	1:C:2385:ARG:HH21	1.83	0.43
1:C:4124:ASN:ND2	1:C:4126:GLU:OE2	2.51	0.43
1:C:4572:ALA:O	1:C:4576:ILE:HG13	2.19	0.43
1:C:4651:THR:HG1	1:C:4803:HIS:CD2	2.36	0.43
1:C:4961:CYS:SG	1:C:4983:HIS:CE1	3.11	0.43
1:A:247:TYR:O	1:A:373:LYS:HA	2.18	0.43
1:A:818:ARG:NE	1:A:1029:GLU:OE1	2.51	0.43
1:A:1220:GLN:OE1	1:D:3522:LEU:CD2	2.66	0.43
1:A:1242:LEU:HD21	1:A:1458:HIS:CD2	2.53	0.43
1:A:1710:GLY:O	1:A:1714:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1748:PHE:CE1	1:A:1760:HIS:HA	2.53	0.43
1:A:2538:THR:O	1:A:2542:SER:N	2.40	0.43
1:A:3048:ALA:O	1:A:3051:ARG:HB3	2.18	0.43
1:A:3053:ARG:HD3	1:A:3056:LEU:HD13	1.99	0.43
1:A:3059:THR:O	1:A:3062:PRO:HD2	2.17	0.43
1:A:3068:LEU:HD13	1:A:3139:VAL:HG11	2.00	0.43
1:A:3281:LEU:HB3	1:A:3282:PRO:HD3	2.00	0.43
1:A:3655:GLU:O	1:A:3658:LYS:HG2	2.17	0.43
1:A:4159:ARG:HA	1:A:4162:ASN:ND2	2.32	0.43
1:A:4651:THR:HG1	1:A:4803:HIS:CD2	2.36	0.43
1:A:4864:ASN:O	1:A:4865:LYS:HD3	2.18	0.43
2:H:21:THR:N	2:H:49:MET:HE2	2.33	0.43
2:G:40:ARG:HD3	1:C:674:PHE:CE2	2.52	0.43
1:B:394:GLN:NE2	1:B:396:GLU:HG3	2.34	0.43
1:B:589:LEU:HA	1:B:592:LYS:HD3	2.00	0.43
1:B:1261:ASP:OD2	1:B:1262:GLY:N	2.51	0.43
1:B:2288:LEU:HB3	1:B:3849:ARG:HG3	1.99	0.43
1:B:2757:LYS:HD3	1:B:2761:TYR:CD2	2.53	0.43
1:B:3015:LEU:HB3	1:B:3026:GLY:HA2	1.99	0.43
1:B:3173:TYR:CG	1:B:3243:ILE:HG13	2.53	0.43
1:B:3352:GLU:OE2	1:B:3352:GLU:N	2.34	0.43
1:B:3522:LEU:HA	1:B:3525:CYS:SG	2.58	0.43
1:B:3885:PHE:CE1	1:B:3919:THR:HG23	2.53	0.43
1:B:3999:MET:N	1:B:3999:MET:SD	2.90	0.43
1:B:4546:VAL:HA	1:B:4549:VAL:HG22	2.01	0.43
1:B:4960:ILE:HG21	1:B:4988:TYR:HE2	1.83	0.43
1:D:261:ARG:HB3	1:D:283:ARG:O	2.17	0.43
1:D:283:ARG:HH11	1:D:288:GLY:HA2	1.83	0.43
1:D:342:GLY:HA2	1:D:390:LEU:O	2.17	0.43
1:D:375:LYS:HD2	1:D:376:ALA:H	1.82	0.43
1:D:484:LEU:HD23	1:D:539:LEU:HD12	1.99	0.43
1:D:580:GLU:OE1	1:D:624:ASN:ND2	2.52	0.43
1:D:772:ASN:HB2	1:D:1470:ARG:HH11	1.83	0.43
1:D:1206:GLN:HA	1:D:1227:ALA:O	2.18	0.43
1:D:1726:SER:O	1:D:1730:MET:HG2	2.19	0.43
1:D:3185:LYS:HE3	1:D:3185:LYS:HB3	1.85	0.43
1:D:3923:LEU:O	1:D:3927:GLN:HG3	2.17	0.43
1:D:4677:LEU:HA	1:D:4680:LYS:HE2	2.00	0.43
1:D:4717:ASP:C	1:D:4718:LYS:HD3	2.38	0.43
1:C:392:ARG:HD2	1:C:393:CYS:N	2.33	0.43
1:C:592:LYS:HA	1:C:1580:PHE:CE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1213:PHE:HD1	1:C:1216:ILE:HD12	1.82	0.43
1:C:1230:MET:HG3	1:C:1234:VAL:HG23	1.99	0.43
1:C:1237:TRP:CE2	1:C:1607:ARG:HB2	2.52	0.43
1:C:2643:LEU:HA	1:C:2646:ASN:ND2	2.33	0.43
1:C:2766:TRP:O	1:C:2770:LYS:HG3	2.19	0.43
1:C:3281:LEU:HB3	1:C:3282:PRO:HD3	2.00	0.43
1:C:4085:ARG:HB2	1:C:4087:LEU:HD23	1.99	0.43
1:C:4677:LEU:HA	1:C:4680:LYS:HE2	2.00	0.43
1:A:580:GLU:OE1	1:A:624:ASN:ND2	2.52	0.43
1:A:652:ARG:HB2	1:A:750:LEU:HD13	2.00	0.43
1:A:829:TYR:O	1:A:840:VAL:N	2.45	0.43
1:A:1807:LEU:HD23	1:A:1848:LEU:HD21	2.00	0.43
1:A:2176:ASN:O	1:A:2180:GLN:HG3	2.19	0.43
1:A:2927:LEU:HA	1:A:2927:LEU:HD13	1.72	0.43
1:A:3192:GLU:O	1:A:3196:ARG:HG2	2.19	0.43
1:A:3270:ILE:O	1:A:3275:PRO:HD3	2.18	0.43
1:A:3522:LEU:HA	1:A:3525:CYS:SG	2.58	0.43
1:A:3589:PRO:O	1:A:3592:ILE:HG22	2.19	0.43
1:A:3647:HIS:O	1:A:3651:ASN:ND2	2.52	0.43
1:A:3885:PHE:CE1	1:A:3919:THR:HG23	2.53	0.43
1:A:4147:LEU:HA	1:A:4147:LEU:HD23	1.80	0.43
1:A:4185:GLY:HA3	1:A:4189:ARG:O	2.18	0.43
1:A:4546:VAL:HA	1:A:4549:VAL:HG22	2.01	0.43
1:A:5017:ARG:HH11	1:A:5017:ARG:HG3	1.83	0.43
2:H:5:GLU:HB3	2:H:73:LYS:HD2	2.00	0.43
2:F:84:ALA:O	2:F:93:PRO:HB3	2.19	0.43
1:B:259:LEU:HD21	1:B:393:CYS:SG	2.58	0.43
1:B:283:ARG:HH11	1:B:288:GLY:HA2	1.83	0.43
1:B:772:ASN:HB2	1:B:1470:ARG:HH11	1.83	0.43
1:B:860:GLN:O	1:B:930:LYS:HD3	2.17	0.43
1:B:1274:HIS:CD2	1:B:1277:TRP:HB2	2.54	0.43
1:B:1447:CYS:HB3	1:B:1555:LEU:HB3	1.99	0.43
1:B:1752:ARG:CZ	1:B:1752:ARG:H	2.32	0.43
1:B:1950:GLU:O	1:B:1954:ARG:HG3	2.18	0.43
1:B:2155:LEU:HD12	1:B:2155:LEU:HA	1.75	0.43
1:B:2237:CYS:HA	1:B:2240:CYS:SG	2.57	0.43
1:B:2447:LYS:NZ	1:B:2449:GLU:H	2.17	0.43
1:B:2579:VAL:HA	1:B:2582:MET:SD	2.58	0.43
1:B:3134:VAL:O	1:B:3138:PRO:HG2	2.18	0.43
1:B:3316:LEU:HD22	1:B:3346:VAL:HA	1.99	0.43
1:B:3336:LYS:O	1:B:3340:VAL:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3398:PHE:HD1	1:B:3401:LEU:HD11	1.83	0.43
1:B:4561:THR:O	1:B:4565:LEU:HG	2.18	0.43
1:B:4651:THR:HG1	1:B:4803:HIS:CE1	2.36	0.43
1:B:5017:ARG:HH11	1:B:5017:ARG:HG3	1.83	0.43
1:D:54:ASN:HB3	1:D:57:ASN:HB2	1.99	0.43
1:D:597:HIS:HD2	1:D:1665:HIS:CE1	2.37	0.43
1:D:818:ARG:NE	1:D:1029:GLU:OE1	2.51	0.43
1:D:1141:ARG:HB2	1:C:3478:MET:O	2.18	0.43
1:D:1229:ASN:H	1:D:1827:ARG:CZ	2.32	0.43
1:D:1613:LEU:HA	1:D:1613:LEU:HD23	1.81	0.43
1:D:2336:ARG:HG3	1:D:2435:ARG:HE	1.83	0.43
1:D:2902:HIS:CD2	1:D:2905:LEU:HG	2.52	0.43
1:D:3174:SER:O	1:D:3177:THR:OG1	2.24	0.43
1:D:3196:ARG:NH1	1:D:3196:ARG:HA	2.33	0.43
1:D:3446:SER:HA	1:D:3452:LYS:HD3	2.00	0.43
1:D:3453:ARG:O	1:D:3456:GLN:HG2	2.19	0.43
1:D:4680:LYS:O	1:D:4685:GLY:N	2.31	0.43
1:C:134:ASP:OD2	1:C:134:ASP:N	2.42	0.43
1:C:179:TYR:HB3	1:C:197:GLN:HA	2.00	0.43
1:C:575:LEU:HD11	1:C:606:LEU:HD12	1.99	0.43
1:C:719:LEU:HA	1:C:735:GLN:HE21	1.84	0.43
1:C:753:PRO:HB2	1:C:771:PHE:CZ	2.53	0.43
1:C:1105:ALA:O	1:C:1189:LEU:N	2.35	0.43
1:C:2447:LYS:NZ	1:C:2449:GLU:H	2.17	0.43
1:C:2779:GLU:OE1	1:C:2779:GLU:N	2.51	0.43
1:C:2997:PHE:O	1:C:3001:ILE:HB	2.17	0.43
1:C:3445:TRP:HA	1:C:3451:PHE:CD2	2.53	0.43
1:C:3446:SER:HA	1:C:3452:LYS:HD3	2.00	0.43
1:C:3829:PHE:CE2	1:C:3906:GLN:HG2	2.53	0.43
1:C:4097:MET:HG2	1:C:4097:MET:H	1.63	0.43
1:A:49:LEU:HD23	1:A:49:LEU:HA	1.84	0.43
1:A:283:ARG:HH11	1:A:288:GLY:HA2	1.83	0.43
1:A:342:GLY:HA2	1:A:390:LEU:O	2.17	0.43
1:A:613:ALA:HB3	1:A:1676:LEU:HD13	2.00	0.43
1:A:753:PRO:HB2	1:A:771:PHE:CZ	2.53	0.43
1:A:983:THR:O	1:A:987:ARG:HG3	2.18	0.43
1:A:1827:ARG:O	1:A:1829:PRO:HD3	2.19	0.43
1:A:1950:GLU:O	1:A:1954:ARG:HG3	2.18	0.43
1:A:1984:PHE:HB2	1:A:1991:THR:HG21	2.01	0.43
1:A:2360:LYS:O	1:A:2363:CYS:HB2	2.18	0.43
1:A:2574:HIS:CD2	1:A:2574:HIS:H	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4877:ASP:HA	1:D:4582:VAL:HG22	2.00	0.43
2:E:97:LEU:HG	2:E:99:PHE:CE1	2.53	0.43
2:G:54:GLU:O	1:C:1784:ALA:HA	2.19	0.43
1:B:486:LEU:HD12	1:B:487:VAL:N	2.34	0.43
1:B:917:GLU:HA	1:B:920:TYR:CE2	2.54	0.43
1:B:1116:GLY:HA3	1:B:1132:TRP:HB3	2.01	0.43
1:B:1491:ASN:OD1	1:B:1491:ASN:N	2.52	0.43
1:B:1810:LYS:HE3	1:B:1810:LYS:HB2	1.69	0.43
1:B:2189:LYS:HZ1	1:B:2193:GLN:HB2	1.83	0.43
1:B:2980:VAL:HG11	1:B:2986:VAL:HG12	1.99	0.43
1:B:3035:GLU:HG3	1:B:3038:MET:HE3	2.01	0.43
1:B:3525:CYS:SG	1:B:3599:VAL:HG11	2.58	0.43
1:B:3768:SER:HA	1:B:3771:HIS:CE1	2.54	0.43
1:B:4837:LEU:HG	1:B:4935:LEU:HD22	1.99	0.43
1:D:49:LEU:HD23	1:D:49:LEU:HA	1.84	0.43
1:D:583:ILE:HG13	1:D:583:ILE:H	1.66	0.43
1:D:613:ALA:HB3	1:D:1676:LEU:HD13	2.00	0.43
1:D:1106:ARG:HH21	1:D:1120:LEU:HD13	1.83	0.43
1:D:1274:HIS:HB3	1:D:1277:TRP:HB2	2.01	0.43
1:D:1491:ASN:OD1	1:D:1491:ASN:N	2.52	0.43
1:D:1965:TYR:O	1:D:1969:LEU:HG	2.19	0.43
1:D:2703:LEU:HA	1:D:2706:ILE:HG12	2.01	0.43
1:D:2757:LYS:HD3	1:D:2761:TYR:CD2	2.53	0.43
1:D:3173:TYR:CG	1:D:3243:ILE:HG13	2.53	0.43
1:C:375:LYS:HD2	1:C:376:ALA:H	1.82	0.43
1:C:818:ARG:NE	1:C:1029:GLU:OE1	2.51	0.43
1:C:1731:LEU:HA	1:C:1772:ARG:NH1	2.33	0.43
1:C:1827:ARG:O	1:C:1829:PRO:HD3	2.19	0.43
1:C:2028:ARG:HA	1:C:2031:LEU:HG	2.01	0.43
1:C:2703:LEU:HA	1:C:2706:ILE:HG12	2.01	0.43
1:C:2902:HIS:CD2	1:C:2905:LEU:HG	2.52	0.43
1:C:3336:LYS:O	1:C:3340:VAL:HG13	2.18	0.43
1:C:3368:ARG:O	1:C:3372:VAL:HG22	2.18	0.43
1:C:3525:CYS:SG	1:C:3599:VAL:HG11	2.58	0.43
1:C:3554:GLN:HA	1:C:3557:LEU:HG	2.00	0.43
1:C:3611:HIS:CE1	1:C:3613:TYR:HH	2.36	0.43
1:C:3969:ILE:CD1	1:C:3977:GLN:HG2	2.49	0.43
1:C:4087:LEU:HB3	1:C:4122:MET:HB3	2.01	0.43
1:C:4185:GLY:HA3	1:C:4189:ARG:O	2.18	0.43
1:C:4232:GLU:HB2	1:C:5019:TRP:HE1	1.83	0.43
1:C:4240:ASP:OD1	1:C:4675:LYS:NZ	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:ARG:NE	1:A:399:GLN:HE21	2.17	0.43
1:A:308:HIS:CD2	1:A:310:LYS:HB3	2.54	0.43
1:A:486:LEU:HD12	1:A:487:VAL:N	2.34	0.43
1:A:663:TYR:CD2	1:A:804:PRO:HB3	2.53	0.43
1:A:1101:ARG:HB3	1:A:1123:VAL:HB	2.00	0.43
1:A:1290:ARG:HB3	1:A:1598:GLN:HB2	2.00	0.43
1:A:2199:ARG:HA	1:A:2204:HIS:CE1	2.54	0.43
1:A:2244:ARG:HG2	1:A:2248:ARG:HH12	1.84	0.43
1:A:3051:ARG:HA	1:A:3131:TYR:OH	2.17	0.43
1:A:3159:ASP:HA	1:A:3218:VAL:HG12	2.00	0.43
1:A:4006:ASP:OD2	1:A:4008:SER:OG	2.37	0.43
1:A:4214:LYS:HB3	1:A:4214:LYS:HE3	1.73	0.43
2:H:8:SER:O	2:H:70:GLN:HG3	2.19	0.43
2:G:46:PHE:CZ	2:G:48:PHE:HB3	2.54	0.43
2:G:48:PHE:CZ	2:G:63:VAL:HG11	2.50	0.43
2:G:59:TRP:CE3	1:C:1783:VAL:CG1	3.01	0.43
2:F:7:ILE:HG13	1:B:719:LEU:HD21	2.00	0.43
1:B:109:LEU:H	1:B:117:TYR:HE1	1.66	0.43
1:B:575:LEU:HD12	1:B:575:LEU:HA	1.76	0.43
1:B:1808:ARG:HG3	1:B:1854:PHE:CE1	2.54	0.43
1:B:2036:GLN:NE2	1:B:2045:GLN:OE1	2.50	0.43
1:B:2097:LEU:HD12	1:B:2098:VAL:N	2.34	0.43
1:B:2522:LEU:HB3	1:B:2527:LEU:HG	2.00	0.43
1:B:3529:ASP:O	1:B:3532:LEU:N	2.52	0.43
1:B:4243:PHE:O	1:B:4247:ILE:HG12	2.18	0.43
1:B:4677:LEU:HA	1:B:4680:LYS:HE2	2.01	0.43
1:D:134:ASP:OD2	1:D:134:ASP:N	2.42	0.43
1:D:290:TYR:O	1:D:302:VAL:N	2.32	0.43
1:D:553:ARG:HG2	1:D:555:GLU:OE1	2.19	0.43
1:D:983:THR:O	1:D:987:ARG:HG3	2.18	0.43
1:D:1748:PHE:HE1	1:D:1760:HIS:HA	1.83	0.43
1:D:1807:LEU:HD23	1:D:1848:LEU:HD21	2.00	0.43
1:D:2028:ARG:HA	1:D:2031:LEU:HG	2.01	0.43
1:D:2288:LEU:HB3	1:D:3849:ARG:HG3	1.99	0.43
1:D:3529:ASP:O	1:D:3532:LEU:N	2.52	0.43
1:D:3842:LEU:HB3	1:D:3933:PHE:CE1	2.54	0.43
1:D:4006:ASP:OD2	1:D:4008:SER:OG	2.37	0.43
1:D:4232:GLU:HB2	1:D:5019:TRP:HE1	1.83	0.43
1:D:4880:MET:HE2	1:D:4880:MET:N	2.32	0.43
1:C:109:LEU:H	1:C:117:TYR:HE1	1.66	0.43
1:C:394:GLN:NE2	1:C:396:GLU:HG3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:664:PHE:CE2	1:C:779:PRO:HB3	2.53	0.43
1:C:1106:ARG:CZ	1:C:1109:LEU:HA	2.48	0.43
1:C:1265:ASP:OD2	1:C:1265:ASP:N	2.48	0.43
1:C:1516:ILE:HA	1:C:1531:ALA:HA	2.00	0.43
1:C:1581:LEU:HA	1:C:1584:ARG:HB2	2.00	0.43
1:C:1590:GLN:OE1	1:C:1590:GLN:N	2.51	0.43
1:C:2036:GLN:NE2	1:C:2045:GLN:OE1	2.50	0.43
1:C:2097:LEU:HD12	1:C:2098:VAL:N	2.34	0.43
1:C:2474:LEU:HD13	1:C:2496:PRO:HG3	2.00	0.43
1:C:3173:TYR:CG	1:C:3243:ILE:HG13	2.53	0.43
1:C:3192:GLU:O	1:C:3196:ARG:HG2	2.18	0.43
1:C:3527:PRO:HA	1:C:3530:GLN:CG	2.48	0.43
1:C:3768:SER:HA	1:C:3771:HIS:CE1	2.54	0.43
1:C:4561:THR:O	1:C:4565:LEU:HG	2.18	0.43
1:A:54:ASN:HB3	1:A:57:ASN:HB2	2.00	0.43
1:A:462:GLU:H	1:A:462:GLU:CD	2.18	0.43
1:A:510:GLU:OE1	1:A:510:GLU:N	2.49	0.43
1:A:1229:ASN:H	1:A:1827:ARG:CZ	2.32	0.43
1:A:1274:HIS:HB3	1:A:1277:TRP:HB2	2.01	0.43
1:A:1752:ARG:H	1:A:1752:ARG:CZ	2.32	0.43
1:A:2336:ARG:HG3	1:A:2435:ARG:HE	1.83	0.43
1:A:2347:GLU:OE2	1:A:2347:GLU:N	2.32	0.43
1:A:3628:ARG:HD3	1:A:3632:VAL:HG13	2.00	0.43
1:A:3906:GLN:NE2	1:A:3913:ILE:O	2.44	0.43
1:A:4843:LEU:HD22	1:D:4823:LEU:HD13	2.01	0.43
2:H:90:ILE:HG12	1:D:1687:SER:HB3	2.00	0.43
1:B:247:TYR:O	1:B:373:LYS:HA	2.18	0.43
1:B:375:LYS:HD2	1:B:376:ALA:N	2.34	0.43
1:B:675:LEU:HD22	1:B:786:GLY:HA3	2.01	0.43
1:B:753:PRO:HB2	1:B:771:PHE:CZ	2.53	0.43
1:B:1274:HIS:HB3	1:B:1277:TRP:HB2	2.01	0.43
1:B:1511:HIS:ND1	1:B:1511:HIS:N	2.65	0.43
1:B:1726:SER:O	1:B:1730:MET:HG2	2.19	0.43
1:B:2028:ARG:HA	1:B:2031:LEU:HG	2.01	0.43
1:B:2268[A]:GLN:H	1:B:2268[A]:GLN:HG3	1.51	0.43
1:B:3081:MET:HA	1:B:3089:LYS:NZ	2.34	0.43
1:B:3281:LEU:HB3	1:B:3282:PRO:HD3	2.00	0.43
1:B:3440:GLU:HA	1:B:3443:ILE:HD12	2.01	0.43
1:D:115:ARG:HE	1:D:399:GLN:HE21	1.66	0.43
1:D:214:VAL:HG23	1:D:274:LEU:HB2	2.00	0.43
1:D:486:LEU:HD12	1:D:487:VAL:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:886:ARG:HG3	1:D:891:TRP:HE3	1.83	0.43
1:D:1590:GLN:N	1:D:1590:GLN:OE1	2.51	0.43
1:D:1752:ARG:H	1:D:1752:ARG:CZ	2.32	0.43
1:D:1980:LEU:HD13	1:D:1994:ARG:HD3	2.00	0.43
1:D:2090:LYS:HZ2	1:D:2092:GLN:HG2	1.82	0.43
1:D:2600:ARG:HA	1:D:2603:ILE:HD12	2.00	0.43
1:D:3159:ASP:HA	1:D:3218:VAL:HG12	2.00	0.43
1:D:3160:ASP:HA	1:D:3163:VAL:HG12	2.00	0.43
1:D:3892:CYS:SG	1:D:3968:TYR:HA	2.59	0.43
1:D:4087:LEU:HB3	1:D:4122:MET:HB3	2.01	0.43
1:D:4856:PHE:CZ	1:C:4582:VAL:HG13	2.52	0.43
1:D:5006:GLN:O	1:D:5010:VAL:HG23	2.19	0.43
1:D:5034:ASP:OD1	1:D:5034:ASP:N	2.52	0.43
1:C:214:VAL:HG23	1:C:274:LEU:HB2	2.00	0.43
1:C:308:HIS:CD2	1:C:310:LYS:HB3	2.54	0.43
1:C:917:GLU:HA	1:C:920:TYR:CE2	2.54	0.43
1:C:1074:ILE:HG12	1:C:1605:TRP:HH2	1.83	0.43
1:C:1690:ASP:CG	1:C:1693:GLN:H	2.22	0.43
1:C:2288:LEU:HB3	1:C:3849:ARG:HG3	1.99	0.43
1:C:3033:ASN:O	1:C:3037:GLU:HG2	2.18	0.43
1:C:3080:VAL:O	1:C:3089:LYS:NZ	2.51	0.43
1:C:3368:ARG:HA	1:C:3371:LYS:HE2	1.99	0.43
1:C:3398:PHE:HD1	1:C:3401:LEU:HD11	1.83	0.43
1:C:3522:LEU:HA	1:C:3525:CYS:SG	2.58	0.43
1:C:4006:ASP:OD2	1:C:4008:SER:OG	2.37	0.43
1:A:613:ALA:H	1:A:1676:LEU:HD13	1.83	0.43
1:A:719:LEU:HA	1:A:735:GLN:HE21	1.84	0.43
1:A:886:ARG:HG3	1:A:891:TRP:HE3	1.83	0.43
1:A:1726:SER:O	1:A:1730:MET:HG2	2.19	0.43
1:A:1773:PRO:HA	1:A:1774:PRO:HD3	1.93	0.43
1:A:2028:ARG:HA	1:A:2031:LEU:HG	2.01	0.43
1:A:2244:ARG:HE	1:A:2248:ARG:HH22	1.67	0.43
1:A:2265:LEU:HB2	1:A:2330:ARG:HD3	2.01	0.43
1:A:2703:LEU:HA	1:A:2706:ILE:HG12	2.01	0.43
1:A:3033:ASN:O	1:A:3037:GLU:HG2	2.18	0.43
1:A:3196:ARG:HA	1:A:3196:ARG:NH1	2.33	0.43
1:A:3635:CYS:HA	1:A:3638:MET:HB2	2.01	0.43
1:A:3892:CYS:SG	1:A:3968:TYR:HA	2.59	0.43
1:A:4561:THR:O	1:A:4565:LEU:HG	2.18	0.43
1:A:4578:LEU:HD12	1:A:4579:PHE:H	1.83	0.43
2:H:100:ASP:OD1	2:H:100:ASP:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:49:LEU:HD23	1:B:49:LEU:HA	1.84	0.43
1:B:392:ARG:HD2	1:B:393:CYS:N	2.33	0.43
1:B:758:ARG:NH1	1:B:761:GLY:H	2.08	0.43
1:B:1710:GLY:O	1:B:1714:LEU:HG	2.18	0.43
1:B:2643:LEU:HA	1:B:2646:ASN:ND2	2.33	0.43
1:B:3478:MET:N	1:B:3478:MET:SD	2.92	0.43
1:D:111:HIS:HD2	1:D:114:SER:HB3	1.83	0.43
1:D:1091:GLU:HG2	1:D:1148:VAL:HG12	2.01	0.43
1:D:1808:ARG:HG3	1:D:1854:PHE:CE1	2.54	0.43
1:D:1950:GLU:O	1:D:1954:ARG:HG3	2.18	0.43
1:D:2251:PHE:CD1	1:D:2286:LEU:HD13	2.54	0.43
1:D:2997:PHE:O	1:D:3001:ILE:HB	2.17	0.43
1:C:589:LEU:HA	1:C:592:LYS:HD3	2.00	0.43
1:C:909:ASN:O	1:C:913:LEU:N	2.42	0.43
1:C:1116:GLY:HA3	1:C:1132:TRP:HB3	2.01	0.43
1:C:1552:VAL:HB	1:C:1564:PHE:HZ	1.84	0.43
1:C:1710:GLY:O	1:C:1714:LEU:HG	2.18	0.43
1:C:2244:ARG:HE	1:C:2248:ARG:HH22	1.67	0.43
1:C:2251:PHE:CD1	1:C:2286:LEU:HD13	2.54	0.43
1:C:2360:LYS:O	1:C:2363:CYS:HB2	2.18	0.43
1:C:2536:LEU:HD13	1:C:2547:ALA:HB1	2.01	0.43
1:C:2550:LEU:HA	1:C:2553:TYR:CE2	2.54	0.43
1:C:3359:ILE:HG23	1:C:3434:LEU:HD21	2.01	0.43
1:C:3371:LYS:O	1:C:3375:GLU:HG3	2.19	0.43
1:C:3635:CYS:HA	1:C:3638:MET:HB2	2.01	0.43
1:C:3762:ARG:NH1	1:C:4752:ALA:O	2.52	0.43
1:C:4569:LEU:O	1:C:4573:ILE:HD12	2.19	0.43
1:C:4960:ILE:HG21	1:C:4988:TYR:HE2	1.83	0.43
1:A:1106:ARG:HH21	1:A:1120:LEU:HD13	1.83	0.43
1:A:1106:ARG:CZ	1:A:1109:LEU:HA	2.48	0.43
1:A:1521:ASP:HB3	1:A:1524:THR:HB	2.01	0.43
1:A:2097:LEU:HD12	1:A:2098:VAL:N	2.34	0.43
1:A:2251:PHE:CD1	1:A:2286:LEU:HD13	2.54	0.43
1:A:2447:LYS:NZ	1:A:2449:GLU:H	2.17	0.43
1:A:2536:LEU:HD13	1:A:2547:ALA:HB1	2.01	0.43
1:A:2770:LYS:HB3	1:A:2786:LYS:HZ2	1.84	0.43
1:A:2819:TRP:HE1	1:A:2881:ASN:ND2	2.17	0.43
1:A:3035:GLU:HG3	1:A:3038:MET:HE3	2.01	0.43
1:A:3336:LYS:O	1:A:3340:VAL:HG13	2.19	0.43
1:A:3397:GLU:O	1:A:3400:VAL:HG22	2.18	0.43
1:A:3402:CYS:SG	1:A:3451:PHE:HE1	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3995:VAL:O	1:A:3999:MET:HG2	2.19	0.43
1:A:4087:LEU:HB3	1:A:4122:MET:HB3	2.01	0.43
1:B:294:THR:N	1:B:298:GLY:O	2.35	0.43
1:B:652:ARG:HB2	1:B:750:LEU:HD13	2.00	0.43
1:B:719:LEU:HA	1:B:735:GLN:HE21	1.84	0.43
1:B:981:GLN:O	1:B:985:VAL:HG13	2.19	0.43
1:B:1427:ILE:HD12	1:B:1427:ILE:HA	1.89	0.43
1:B:1521:ASP:HB3	1:B:1524:THR:HB	2.01	0.43
1:B:1577:ALA:HB1	1:B:1584:ARG:HA	2.00	0.43
1:B:1984:PHE:HB2	1:B:1991:THR:HG21	2.01	0.43
1:B:2360:LYS:O	1:B:2363:CYS:HB2	2.18	0.43
1:B:2474:LEU:HD13	1:B:2496:PRO:HG3	2.00	0.43
1:B:2766:TRP:O	1:B:2770:LYS:HG3	2.19	0.43
1:B:2798:SER:HB2	1:B:2800:LYS:NZ	2.33	0.43
1:B:3159:ASP:HA	1:B:3218:VAL:HG12	2.00	0.43
1:B:3270:ILE:O	1:B:3275:PRO:HD3	2.18	0.43
1:B:3354:LEU:HB2	1:B:3415:TYR:CE2	2.54	0.43
1:B:3522:LEU:HB3	1:C:1220:GLN:CG	2.49	0.43
1:B:3554:GLN:HA	1:B:3557:LEU:HG	2.00	0.43
1:B:3635:CYS:HA	1:B:3638:MET:HB2	2.01	0.43
1:B:3995:VAL:O	1:B:3999:MET:HG2	2.19	0.43
1:B:4569:LEU:O	1:B:4573:ILE:HD12	2.19	0.43
1:B:4645:CYS:O	1:B:4649:LEU:HG	2.18	0.43
1:D:259:LEU:HD21	1:D:393:CYS:SG	2.58	0.43
1:D:426:ARG:HG3	1:D:431:PRO:HA	2.00	0.43
1:D:652:ARG:HB2	1:D:750:LEU:HD13	2.00	0.43
1:D:719:LEU:HA	1:D:735:GLN:HE21	1.84	0.43
1:D:875:ALA:O	1:D:878:ILE:HG12	2.19	0.43
1:D:1006:SER:OG	1:D:1007:TYR:N	2.52	0.43
1:D:1261:ASP:OD2	1:D:1262:GLY:N	2.51	0.43
1:D:1447:CYS:HB3	1:D:1555:LEU:HB3	1.99	0.43
1:D:1690:ASP:CG	1:D:1693:GLN:H	2.22	0.43
1:D:2550:LEU:HA	1:D:2553:TYR:CE2	2.54	0.43
1:D:2766:TRP:O	1:D:2770:LYS:HG3	2.19	0.43
1:D:2880:GLU:OE2	1:D:2884:ASN:ND2	2.50	0.43
1:D:3270:ILE:O	1:D:3275:PRO:HD3	2.18	0.43
1:D:3368:ARG:O	1:D:3372:VAL:HG22	2.18	0.43
1:D:3478:MET:SD	1:D:3478:MET:N	2.92	0.43
1:D:3522:LEU:HA	1:D:3525:CYS:SG	2.58	0.43
1:D:3554:GLN:HA	1:D:3557:LEU:HG	2.00	0.43
1:D:3595:ARG:HA	1:D:3598:GLU:OE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3829:PHE:CE2	1:D:3906:GLN:HG2	2.53	0.43
1:D:4085:ARG:HH21	1:D:4122:MET:HG3	1.84	0.43
1:D:4134:GLU:HB3	1:D:4135:PRO:HD3	2.00	0.43
1:D:4147:LEU:HD23	1:D:4147:LEU:HA	1.80	0.43
1:D:4243:PHE:O	1:D:4247:ILE:HG12	2.18	0.43
1:C:290:TYR:O	1:C:302:VAL:N	2.32	0.43
1:C:314:PHE:CE2	1:C:350:HIS:HB2	2.54	0.43
1:C:1726:SER:O	1:C:1730:MET:HG2	2.19	0.43
1:C:2176:ASN:O	1:C:2180:GLN:HG3	2.19	0.43
1:C:2313:LEU:HD12	1:C:2316:LYS:HE2	2.00	0.43
1:C:2675:THR:HG22	1:C:2710:LEU:HD21	2.00	0.43
1:C:3068:LEU:HD13	1:C:3139:VAL:HG11	2.00	0.43
1:C:3589:PRO:O	1:C:3592:ILE:HG22	2.19	0.43
1:C:3882:GLN:OE1	1:C:3957:VAL:HA	2.19	0.43
1:C:4095:LYS:HA	1:C:4098:ASP:OD2	2.19	0.43
1:C:4134:GLU:HB3	1:C:4135:PRO:HD3	2.00	0.43
1:C:4243:PHE:O	1:C:4247:ILE:HG12	2.18	0.43
1:C:4249:ALA:O	1:C:4252:SER:OG	2.29	0.43
1:C:5034:ASP:N	1:C:5034:ASP:OD1	2.52	0.43
1:A:214:VAL:HG12	1:A:341:TYR:CG	2.54	0.43
1:A:314:PHE:CE2	1:A:350:HIS:HB2	2.54	0.43
1:A:332:GLU:OE1	1:A:332:GLU:N	2.52	0.43
1:A:394:GLN:NE2	1:A:396:GLU:HG3	2.34	0.43
1:A:553:ARG:HG2	1:A:555:GLU:OE1	2.19	0.43
1:A:589:LEU:HA	1:A:592:LYS:HD3	2.00	0.43
1:A:688:LEU:HD23	1:A:712:TYR:HD1	1.84	0.43
1:A:791:PHE:N	1:A:1626:TRP:O	2.49	0.43
1:A:809:ALA:HB2	1:A:1017:ARG:HH12	1.84	0.43
1:A:893:TYR:H	1:A:962:SER:H	1.67	0.43
1:A:917:GLU:HA	1:A:920:TYR:CE2	2.54	0.43
1:A:1206:GLN:HA	1:A:1227:ALA:O	2.18	0.43
1:A:2895:GLU:HG2	1:A:2895:GLU:H	1.69	0.43
1:A:3762:ARG:NH1	1:A:4752:ALA:O	2.52	0.43
1:A:3768:SER:HA	1:A:3771:HIS:CE1	2.54	0.43
1:A:3812:VAL:O	1:A:3816:MET:HE2	2.18	0.43
1:A:4085:ARG:HH21	1:A:4122:MET:HG3	1.84	0.43
1:A:4866:SER:OG	1:A:4868:ASP:O	2.33	0.43
2:G:7:ILE:CA	1:C:719:LEU:HD21	2.47	0.43
1:B:159:GLU:OE2	1:B:160:GLY:N	2.48	0.43
1:B:234:SER:OG	1:B:238:SER:OG	2.37	0.43
1:B:545:ASP:N	1:B:545:ASP:OD1	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:553:ARG:HG2	1:B:555:GLU:OE1	2.19	0.43
1:B:982:THR:HA	1:B:985:VAL:HG22	2.00	0.43
1:B:1748:PHE:HE1	1:B:1760:HIS:HA	1.83	0.43
1:B:2377:LEU:HB2	1:B:2465:ASP:OD2	2.19	0.43
1:B:2478:THR:O	1:B:2486:VAL:N	2.41	0.43
1:B:2819:TRP:HE1	1:B:2881:ASN:ND2	2.17	0.43
1:B:3078:ARG:HA	1:B:3081:MET:SD	2.59	0.43
1:B:3882:GLN:OE1	1:B:3957:VAL:HA	2.19	0.43
1:B:4085:ARG:HH21	1:B:4122:MET:HG3	1.84	0.43
1:B:4159:ARG:HE	1:B:4159:ARG:HB2	1.66	0.43
1:B:4204:GLN:O	1:B:4207:MET:HG2	2.19	0.43
1:D:809:ALA:HB2	1:D:1017:ARG:HH12	1.84	0.43
1:D:846:LEU:HD23	1:D:847:SER:N	2.34	0.43
1:D:893:TYR:H	1:D:962:SER:H	1.67	0.43
1:D:1005:TRP:CZ2	1:D:1013:ILE:HD13	2.54	0.43
1:D:1092:PHE:HD1	1:D:1202:LEU:HB3	1.84	0.43
1:D:1101:ARG:HB3	1:D:1123:VAL:HB	2.00	0.43
1:D:1710:GLY:O	1:D:1714:LEU:HG	2.18	0.43
1:D:2097:LEU:HD12	1:D:2098:VAL:N	2.34	0.43
1:D:2244:ARG:HE	1:D:2248:ARG:HH22	1.67	0.43
1:D:2358:ILE:HG13	1:D:2359:ARG:NH2	2.34	0.43
1:D:2447:LYS:NZ	1:D:2449:GLU:H	2.17	0.43
1:D:2536:LEU:HD13	1:D:2547:ALA:HB1	2.01	0.43
1:D:3081:MET:HA	1:D:3089:LYS:NZ	2.34	0.43
1:D:3440:GLU:HA	1:D:3443:ILE:HD12	2.01	0.43
1:D:3451:PHE:HA	1:D:3454:GLU:OE2	2.18	0.43
1:D:3628:ARG:HD3	1:D:3632:VAL:HG13	2.00	0.43
1:D:3768:SER:HA	1:D:3771:HIS:CE1	2.54	0.43
1:D:4095:LYS:HA	1:D:4098:ASP:OD2	2.19	0.43
1:D:4999:ASP:OD1	1:D:5000:GLU:N	2.52	0.43
1:C:486:LEU:HD12	1:C:487:VAL:N	2.34	0.43
1:C:1577:ALA:HB1	1:C:1584:ARG:HA	2.00	0.43
1:C:1658:ASP:OD1	1:C:1659:LEU:N	2.48	0.43
1:C:3159:ASP:HA	1:C:3218:VAL:HG12	2.00	0.43
1:C:3478:MET:N	1:C:3478:MET:SD	2.92	0.43
1:A:214:VAL:HG23	1:A:274:LEU:HB2	2.00	0.42
1:A:846:LEU:HD23	1:A:847:SER:N	2.34	0.42
1:A:1006:SER:OG	1:A:1007:TYR:N	2.52	0.42
1:A:1516:ILE:HA	1:A:1531:ALA:HA	2.00	0.42
1:A:1965:TYR:O	1:A:1969:LEU:HG	2.19	0.42
1:A:1980:LEU:HD13	1:A:1994:ARG:HD3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2224:ARG:HB2	1:A:2225:PHE:CD2	2.55	0.42
1:A:2358:ILE:HG13	1:A:2359:ARG:NH2	2.33	0.42
1:A:2474:LEU:HD13	1:A:2496:PRO:HG3	2.00	0.42
1:A:3160:ASP:HA	1:A:3163:VAL:HG12	2.00	0.42
1:A:3354:LEU:HB2	1:A:3415:TYR:CE2	2.54	0.42
1:A:3762:ARG:HH12	1:A:4753:HIS:C	2.22	0.42
1:A:3842:LEU:HB3	1:A:3933:PHE:CE1	2.54	0.42
1:A:3882:GLN:OE1	1:A:3957:VAL:HA	2.19	0.42
1:A:4572:ALA:O	1:A:4576:ILE:HG13	2.19	0.42
1:B:296:ASP:OD1	1:B:296:ASP:N	2.47	0.42
1:B:613:ALA:H	1:B:1676:LEU:HD13	1.83	0.42
1:B:818:ARG:NE	1:B:1029:GLU:OE1	2.51	0.42
1:B:1106:ARG:CZ	1:B:1109:LEU:HA	2.48	0.42
1:B:1452:TRP:CD1	1:B:1452:TRP:N	2.85	0.42
1:B:2244:ARG:HE	1:B:2248:ARG:HH22	1.67	0.42
1:B:2251:PHE:CD1	1:B:2286:LEU:HD13	2.54	0.42
1:B:2703:LEU:HA	1:B:2706:ILE:HG12	2.01	0.42
1:B:3371:LYS:O	1:B:3375:GLU:HG3	2.19	0.42
1:B:3402:CYS:SG	1:B:3451:PHE:HE1	2.42	0.42
1:B:3589:PRO:O	1:B:3592:ILE:HG22	2.19	0.42
1:B:4031:LEU:HD23	1:B:4031:LEU:HA	1.87	0.42
1:B:4087:LEU:HB3	1:B:4122:MET:HB3	2.01	0.42
1:B:4101:LYS:HB2	1:C:4730:ASP:OD1	2.19	0.42
1:B:4181:ILE:HD12	1:B:4181:ILE:HA	1.81	0.42
1:B:5006:GLN:O	1:B:5010:VAL:HG23	2.19	0.42
1:D:314:PHE:CE2	1:D:350:HIS:HB2	2.54	0.42
1:D:613:ALA:H	1:D:1676:LEU:HD13	1.83	0.42
1:D:688:LEU:HD23	1:D:712:TYR:HD1	1.84	0.42
1:D:981:GLN:O	1:D:985:VAL:HG13	2.19	0.42
1:D:1577:ALA:HB1	1:D:1584:ARG:HA	2.00	0.42
1:D:2244:ARG:HG2	1:D:2248:ARG:HH12	1.84	0.42
1:D:2265:LEU:HB2	1:D:2330:ARG:HD3	2.01	0.42
1:D:2313:LEU:HD12	1:D:2316:LYS:HE2	2.00	0.42
1:D:2630:VAL:HG21	1:D:2678:LEU:HD13	2.01	0.42
1:D:3647:HIS:O	1:D:3651:ASN:ND2	2.52	0.42
1:D:3885:PHE:CE1	1:D:3919:THR:HG23	2.53	0.42
1:D:4651:THR:HG1	1:D:4803:HIS:CD2	2.36	0.42
1:D:4791:TYR:OH	1:D:4815:ASP:OD1	2.27	0.42
1:C:247:TYR:O	1:C:373:LYS:HA	2.18	0.42
1:C:580:GLU:OE1	1:C:624:ASN:ND2	2.52	0.42
1:C:886:ARG:HG3	1:C:891:TRP:HE3	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:893:TYR:H	1:C:962:SER:H	1.67	0.42
1:C:1752:ARG:H	1:C:1752:ARG:CZ	2.32	0.42
1:C:1842:LEU:O	1:C:1846:SER:OG	2.29	0.42
1:C:2244:ARG:HG2	1:C:2248:ARG:HH12	1.84	0.42
1:C:2336:ARG:HG3	1:C:2435:ARG:HE	1.84	0.42
1:C:3160:ASP:HA	1:C:3163:VAL:HG12	2.00	0.42
1:C:3327:LEU:HB2	1:C:3364:ARG:NH2	2.32	0.42
1:C:3453:ARG:O	1:C:3456:GLN:HG2	2.19	0.42
1:C:4085:ARG:HH21	1:C:4122:MET:HG3	1.84	0.42
1:A:111:HIS:HD2	1:A:114:SER:HB3	1.83	0.42
1:A:981:GLN:O	1:A:985:VAL:HG13	2.19	0.42
1:A:1552:VAL:HB	1:A:1564:PHE:HZ	1.84	0.42
1:A:1747:LEU:HD23	1:A:1747:LEU:HA	1.90	0.42
1:A:1808:ARG:HG3	1:A:1854:PHE:CE1	2.54	0.42
1:A:2630:VAL:HG21	1:A:2678:LEU:HD13	2.01	0.42
1:A:2779:GLU:OE1	1:A:2779:GLU:N	2.51	0.42
1:A:3529:ASP:O	1:A:3532:LEU:N	2.52	0.42
1:A:4134:GLU:HB3	1:A:4135:PRO:HD3	2.00	0.42
2:F:18:ARG:HH21	2:F:19:GLY:N	2.17	0.42
1:B:1160:ILE:HG13	1:B:1182:ILE:HD13	2.01	0.42
1:B:1206:GLN:HA	1:B:1227:ALA:O	2.18	0.42
1:B:1552:VAL:HB	1:B:1564:PHE:HZ	1.84	0.42
1:B:1965:TYR:O	1:B:1969:LEU:HG	2.19	0.42
1:B:2224:ARG:HB2	1:B:2225:PHE:CD2	2.55	0.42
1:B:3171:SER:O	1:B:3175:LEU:HG	2.20	0.42
1:B:3172:ILE:HD13	1:B:3194:LEU:CD2	2.47	0.42
1:B:3355:HIS:HA	1:B:3359:ILE:HD12	2.01	0.42
1:B:4961:CYS:SG	1:B:4983:HIS:CE1	3.11	0.42
1:D:349:GLN:HE22	1:D:355:LEU:C	2.23	0.42
1:D:394:GLN:NE2	1:D:396:GLU:HG3	2.34	0.42
1:D:510:GLU:OE1	1:D:510:GLU:N	2.49	0.42
1:D:978:THR:O	1:D:982:THR:HG23	2.18	0.42
1:D:999:ASP:O	1:D:1003:GLN:HG3	2.19	0.42
1:D:1828:ASP:OD1	1:D:1828:ASP:N	2.48	0.42
1:D:1987:SER:O	1:D:1991:THR:OG1	2.20	0.42
1:D:2534:ALA:HB2	1:D:2585:THR:HG23	2.00	0.42
1:D:2758:PHE:HB3	1:D:2809:ILE:HG21	2.01	0.42
1:D:3371:LYS:O	1:D:3375:GLU:HG3	2.19	0.42
1:D:3635:CYS:HA	1:D:3638:MET:HB2	2.01	0.42
1:D:3882:GLN:OE1	1:D:3957:VAL:HA	2.19	0.42
1:D:4185:GLY:HA3	1:D:4189:ARG:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4546:VAL:HA	1:D:4549:VAL:HG22	2.01	0.42
1:C:125:ARG:HH11	1:C:127:MET:HE1	1.84	0.42
1:C:375:LYS:HD2	1:C:376:ALA:N	2.34	0.42
1:C:663:TYR:HD2	1:C:804:PRO:HB3	1.84	0.42
1:C:675:LEU:HD22	1:C:786:GLY:HA3	2.01	0.42
1:C:954:LYS:HA	1:C:954:LYS:HD2	1.75	0.42
1:C:1005:TRP:CZ2	1:C:1013:ILE:HD13	2.54	0.42
1:C:1290:ARG:HB3	1:C:1598:GLN:HB2	2.00	0.42
1:C:1965:TYR:O	1:C:1969:LEU:HG	2.19	0.42
1:C:3078:ARG:HA	1:C:3081:MET:SD	2.59	0.42
1:C:3825:GLU:OE2	1:C:3827:GLY:N	2.48	0.42
1:C:3892:CYS:SG	1:C:3967:GLU:HG3	2.58	0.42
1:C:4060:LYS:HA	1:C:4060:LYS:HD2	1.83	0.42
1:C:4664:LEU:HB3	1:C:4665:LYS:HZ2	1.84	0.42
1:A:598:LYS:HD2	1:A:598:LYS:HA	1.84	0.42
1:A:675:LEU:HD22	1:A:786:GLY:HA3	2.01	0.42
1:A:1771:LEU:O	1:A:1772:ARG:HD3	2.19	0.42
1:A:2116:LEU:O	1:A:2120:MET:HG2	2.19	0.42
1:A:2377:LEU:HD13	1:A:2469:ILE:HG13	2.01	0.42
1:A:3355:HIS:HA	1:A:3359:ILE:HD12	2.01	0.42
1:A:3446:SER:HA	1:A:3452:LYS:HD3	2.00	0.42
1:A:3622:LYS:HE2	1:A:3622:LYS:HB2	1.71	0.42
1:A:3689:GLU:O	1:A:3693:LYS:N	2.52	0.42
1:A:3762:ARG:HH12	1:A:4754:ASN:N	2.18	0.42
1:A:5034:ASP:OD1	1:A:5034:ASP:N	2.52	0.42
1:B:117:TYR:OH	1:B:146:CYS:O	2.31	0.42
1:B:214:VAL:HG12	1:B:341:TYR:CG	2.54	0.42
1:B:214:VAL:HG23	1:B:274:LEU:HB2	2.00	0.42
1:B:314:PHE:CE2	1:B:350:HIS:HB2	2.54	0.42
1:B:580:GLU:OE1	1:B:624:ASN:ND2	2.52	0.42
1:B:1827:ARG:O	1:B:1829:PRO:HD3	2.19	0.42
1:B:3048:ALA:O	1:B:3051:ARG:HB3	2.18	0.42
1:B:3762:ARG:HH12	1:B:4754:ASN:N	2.18	0.42
1:B:3842:LEU:HB3	1:B:3933:PHE:CE1	2.54	0.42
1:B:3906:GLN:NE2	1:B:3913:ILE:O	2.44	0.42
1:B:4095:LYS:HA	1:B:4098:ASP:OD2	2.19	0.42
1:B:4572:ALA:O	1:B:4576:ILE:HG13	2.18	0.42
1:D:117:TYR:O	1:D:138:GLN:N	2.31	0.42
1:D:272:SER:HA	1:D:334:MET:HE1	2.01	0.42
1:D:663:TYR:HD2	1:D:804:PRO:HB3	1.85	0.42
1:D:1116:GLY:HA3	1:D:1132:TRP:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1552:VAL:HB	1:D:1564:PHE:HZ	1.84	0.42
1:D:2199:ARG:HA	1:D:2204:HIS:CE1	2.54	0.42
1:D:2243:SER:OG	1:D:2245:GLN:OE1	2.18	0.42
1:D:2779:GLU:OE1	1:D:2779:GLU:N	2.51	0.42
1:D:2819:TRP:HE1	1:D:2881:ASN:ND2	2.17	0.42
1:D:3171:SER:O	1:D:3175:LEU:HG	2.20	0.42
1:D:3355:HIS:HA	1:D:3359:ILE:HD12	2.01	0.42
1:D:3431:ALA:HA	1:D:3434:LEU:HD12	2.01	0.42
1:D:3689:GLU:O	1:D:3693:LYS:N	2.52	0.42
1:D:4185:GLY:O	1:D:4188:ARG:NH2	2.53	0.42
1:D:4572:ALA:O	1:D:4576:ILE:HG13	2.19	0.42
1:D:4732:PHE:CE1	1:D:4736:ARG:HD2	2.53	0.42
1:C:259:LEU:HD21	1:C:393:CYS:SG	2.58	0.42
1:C:553:ARG:HG2	1:C:555:GLU:OE1	2.19	0.42
1:C:597:HIS:HD2	1:C:1665:HIS:CE1	2.37	0.42
1:C:976:ARG:HD3	1:C:976:ARG:HA	1.66	0.42
1:C:978:THR:O	1:C:982:THR:HG23	2.18	0.42
1:C:1229:ASN:H	1:C:1827:ARG:CZ	2.32	0.42
1:C:1274:HIS:CD2	1:C:1277:TRP:HB2	2.53	0.42
1:C:1984:PHE:HB2	1:C:1991:THR:HG21	2.01	0.42
1:C:2165:LEU:HA	1:C:2165:LEU:HD12	1.71	0.42
1:C:2358:ILE:HG13	1:C:2359:ARG:NH2	2.33	0.42
1:C:2377:LEU:HD13	1:C:2469:ILE:HG13	2.01	0.42
1:C:2478:THR:O	1:C:2486:VAL:N	2.41	0.42
1:C:2522:LEU:HB3	1:C:2527:LEU:HG	2.00	0.42
1:C:2819:TRP:HE1	1:C:2881:ASN:ND2	2.17	0.42
1:C:3529:ASP:O	1:C:3532:LEU:N	2.52	0.42
1:C:3595:ARG:HA	1:C:3598:GLU:OE1	2.19	0.42
1:C:3842:LEU:HB3	1:C:3933:PHE:CE1	2.54	0.42
1:C:3892:CYS:SG	1:C:3968:TYR:HA	2.59	0.42
1:C:3995:VAL:O	1:C:3999:MET:HG2	2.19	0.42
1:C:4247:ILE:O	1:C:4251:ILE:HG23	2.19	0.42
1:C:4546:VAL:HA	1:C:4549:VAL:HG22	2.01	0.42
1:A:115:ARG:HE	1:A:399:GLN:HE21	1.66	0.42
1:A:596:ASN:ND2	1:A:599:VAL:HG23	2.35	0.42
1:A:681:HIS:O	1:A:784:SER:N	2.42	0.42
1:A:772:ASN:HB2	1:A:1470:ARG:HH11	1.83	0.42
1:A:875:ALA:O	1:A:878:ILE:HG12	2.19	0.42
1:A:1011:GLN:HB3	1:A:1019:PRO:HD2	2.01	0.42
1:A:1074:ILE:HG12	1:A:1605:TRP:HH2	1.84	0.42
1:A:1491:ASN:OD1	1:A:1491:ASN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1511:HIS:ND1	1:A:1511:HIS:N	2.65	0.42
1:A:2534:ALA:HB2	1:A:2585:THR:HG23	2.00	0.42
1:A:2647:HIS:HB2	1:A:2650:ARG:HE	1.84	0.42
1:A:2967:MET:O	1:A:2971:GLN:HG2	2.19	0.42
1:A:3453:ARG:HA	1:A:3456:GLN:NE2	2.35	0.42
1:A:3589:PRO:O	1:A:3593:VAL:HG13	2.20	0.42
1:A:3694:LYS:HA	1:A:3695:PRO:HD3	1.92	0.42
1:A:4677:LEU:HA	1:A:4680:LYS:HE2	2.00	0.42
1:A:4680:LYS:HE2	1:A:4680:LYS:HB2	1.67	0.42
1:A:4963:ILE:HD11	1:A:5026:ASP:N	2.35	0.42
2:E:25:HIS:HD1	2:E:40:ARG:HD2	1.85	0.42
2:H:56:ILE:HD12	2:H:56:ILE:H	1.85	0.42
2:G:52:LYS:HB3	2:G:54:GLU:OE1	2.20	0.42
1:B:41:GLY:O	1:B:45:ARG:NH2	2.47	0.42
1:B:111:HIS:HD2	1:B:114:SER:HB3	1.83	0.42
1:B:596:ASN:ND2	1:B:599:VAL:HG23	2.35	0.42
1:B:1011:GLN:HB3	1:B:1019:PRO:HD2	2.00	0.42
1:B:1229:ASN:H	1:B:1827:ARG:CZ	2.32	0.42
1:B:1690:ASP:CG	1:B:1693:GLN:H	2.22	0.42
1:B:2967:MET:O	1:B:2971:GLN:HG2	2.19	0.42
1:B:3431:ALA:HA	1:B:3434:LEU:HD12	2.01	0.42
1:B:3702:VAL:HG13	1:B:3778:MET:SD	2.60	0.42
1:D:308:HIS:CD2	1:D:310:LYS:HB3	2.54	0.42
1:D:884:LEU:HA	1:D:887:ILE:HG22	2.00	0.42
1:D:928:THR:HG22	1:D:988:LEU:HD11	2.02	0.42
1:D:1980:LEU:O	1:D:1984:PHE:HB3	2.20	0.42
1:D:2176:ASN:O	1:D:2180:GLN:HG3	2.19	0.42
1:D:2430:ILE:HG13	1:D:2502:MET:HE1	2.01	0.42
1:D:2522:LEU:HB3	1:D:2527:LEU:HG	2.00	0.42
1:D:2999:ALA:O	1:D:3003:LEU:HB2	2.20	0.42
1:D:3033:ASN:O	1:D:3037:GLU:HG2	2.18	0.42
1:D:3035:GLU:HG3	1:D:3038:MET:HE3	2.01	0.42
1:D:3281:LEU:HB3	1:D:3282:PRO:HD3	2.00	0.42
1:D:3327:LEU:HB2	1:D:3364:ARG:NH2	2.33	0.42
1:D:3336:LYS:O	1:D:3340:VAL:HG13	2.18	0.42
1:D:3359:ILE:HG23	1:D:3434:LEU:HD21	2.01	0.42
1:D:3453:ARG:HA	1:D:3456:GLN:NE2	2.35	0.42
1:D:3762:ARG:HH12	1:D:4753:HIS:C	2.22	0.42
1:D:3969:ILE:CD1	1:D:3977:GLN:HG2	2.49	0.42
1:D:4159:ARG:HA	1:D:4162:ASN:ND2	2.32	0.42
1:C:257:ARG:O	1:C:284:HIS:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:472:ARG:HA	1:C:472:ARG:HH11	1.85	0.42
1:C:493:ARG:O	1:C:496:VAL:HG22	2.20	0.42
1:C:652:ARG:HB2	1:C:750:LEU:HD13	2.00	0.42
1:C:688:LEU:HD23	1:C:712:TYR:HD1	1.84	0.42
1:C:1006:SER:OG	1:C:1007:TYR:N	2.52	0.42
1:C:1749:PRO:HA	1:C:1750:PRO:HD3	1.96	0.42
1:C:2224:ARG:HB2	1:C:2225:PHE:CD2	2.55	0.42
1:C:2347:GLU:OE2	1:C:2347:GLU:N	2.32	0.42
1:C:2534:ALA:HB2	1:C:2585:THR:HG23	2.00	0.42
1:C:2643:LEU:HD12	1:C:2644:LEU:N	2.34	0.42
1:C:3171:SER:O	1:C:3175:LEU:HG	2.20	0.42
1:C:3440:GLU:HA	1:C:3443:ILE:HD12	2.01	0.42
1:C:3628:ARG:HD3	1:C:3632:VAL:HG13	2.00	0.42
1:A:375:LYS:HD2	1:A:376:ALA:N	2.34	0.42
1:A:597:HIS:HD2	1:A:1665:HIS:CE1	2.37	0.42
1:A:663:TYR:HD2	1:A:804:PRO:HB3	1.85	0.42
1:A:1005:TRP:CZ2	1:A:1013:ILE:HD13	2.54	0.42
1:A:1116:GLY:HA3	1:A:1132:TRP:HB3	2.01	0.42
1:A:1274:HIS:CD2	1:A:1277:TRP:HB2	2.54	0.42
1:A:1805:GLU:H	1:A:1805:GLU:CD	2.14	0.42
1:A:2999:ALA:O	1:A:3003:LEU:HB2	2.20	0.42
1:A:3105:LYS:O	1:A:3108:GLU:HG2	2.19	0.42
1:A:4247:ILE:O	1:A:4251:ILE:HG23	2.19	0.42
1:A:4880:MET:HE3	1:D:4579:PHE:HA	2.01	0.42
1:A:4961:CYS:SG	1:A:4983:HIS:CE1	3.11	0.42
1:A:4974:GLY:O	1:A:4977:THR:OG1	2.32	0.42
1:A:4999:ASP:OD1	1:A:5000:GLU:N	2.52	0.42
1:A:5006:GLN:O	1:A:5010:VAL:HG23	2.19	0.42
2:E:84:ALA:O	2:E:93:PRO:HB3	2.19	0.42
2:H:8:SER:CB	2:H:71:ARG:HB3	2.48	0.42
2:H:84:ALA:O	2:H:93:PRO:HB3	2.19	0.42
2:F:47:LYS:HD3	2:F:47:LYS:N	2.35	0.42
1:B:597:HIS:HD2	1:B:1665:HIS:CE1	2.37	0.42
1:B:846:LEU:HD23	1:B:847:SER:N	2.34	0.42
1:B:904:HIS:HB3	1:B:907:LEU:HB3	2.02	0.42
1:B:960:MET:CE	1:B:960:MET:H	2.33	0.42
1:B:999:ASP:O	1:B:1003:GLN:HG3	2.19	0.42
1:B:1005:TRP:CZ2	1:B:1013:ILE:HD13	2.54	0.42
1:B:1074:ILE:HG12	1:B:1605:TRP:HH2	1.83	0.42
1:B:1105:ALA:N	1:B:1189:LEU:O	2.39	0.42
1:B:1516:ILE:HA	1:B:1531:ALA:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1716:ILE:CG2	1:B:1847:THR:HG21	2.50	0.42
1:B:1805:GLU:H	1:B:1805:GLU:CD	2.14	0.42
1:B:2176:ASN:O	1:B:2180:GLN:HG3	2.19	0.42
1:B:2377:LEU:HD13	1:B:2469:ILE:HG13	2.01	0.42
1:B:2630:VAL:HG21	1:B:2678:LEU:HD13	2.01	0.42
1:B:3204:ALA:HB2	1:B:3284:TRP:CD2	2.55	0.42
1:B:3514:LEU:HA	1:B:3517:MET:HG2	2.02	0.42
1:B:3522:LEU:CD2	1:C:1220:GLN:OE1	2.68	0.42
1:B:3589:PRO:O	1:B:3593:VAL:HG13	2.20	0.42
1:B:5034:ASP:N	1:B:5034:ASP:OD1	2.52	0.42
1:D:1984:PHE:HB2	1:D:1991:THR:HG21	2.01	0.42
1:D:3078:ARG:HA	1:D:3081:MET:SD	2.59	0.42
1:D:3348:ARG:CZ	1:D:3348:ARG:HA	2.50	0.42
1:D:4150:LEU:HD23	1:D:4150:LEU:HA	1.76	0.42
1:D:4204:GLN:O	1:D:4207:MET:HG2	2.19	0.42
1:D:4960:ILE:HG21	1:D:4988:TYR:HE2	1.83	0.42
1:C:214:VAL:HG12	1:C:341:TYR:CG	2.54	0.42
1:C:875:ALA:O	1:C:878:ILE:HG12	2.19	0.42
1:C:884:LEU:HA	1:C:887:ILE:HG22	2.00	0.42
1:C:1021:LEU:HD23	1:C:1021:LEU:O	2.20	0.42
1:C:1106:ARG:HH21	1:C:1120:LEU:HD13	1.83	0.42
1:C:1491:ASN:OD1	1:C:1491:ASN:N	2.52	0.42
1:C:1660:GLN:NE2	1:C:1660:GLN:O	2.48	0.42
1:C:1808:ARG:HG3	1:C:1854:PHE:CE1	2.54	0.42
1:C:1950:GLU:O	1:C:1954:ARG:HG3	2.18	0.42
1:C:2012:PHE:HD1	1:C:3661:TRP:HZ2	1.68	0.42
1:C:2155:LEU:HD22	1:C:2188:ASN:OD1	2.20	0.42
1:C:2377:LEU:HB2	1:C:2465:ASP:OD2	2.19	0.42
1:C:3348:ARG:HA	1:C:3348:ARG:CZ	2.50	0.42
1:C:3352:GLU:OE2	1:C:3352:GLU:N	2.34	0.42
1:C:3514:LEU:HA	1:C:3517:MET:HG2	2.02	0.42
1:C:3702:VAL:HG13	1:C:3778:MET:SD	2.60	0.42
1:C:3875:MET:HE2	1:C:3875:MET:H	1.83	0.42
1:C:4999:ASP:OD1	1:C:5000:GLU:N	2.52	0.42
1:A:214:VAL:CG2	1:A:339:ILE:HB	2.50	0.42
1:A:469:ARG:NH2	1:A:3710:LEU:O	2.48	0.42
1:A:493:ARG:O	1:A:496:VAL:HG22	2.20	0.42
1:A:1568:LYS:CD	1:A:1574:PRO:HA	2.50	0.42
1:A:1612:PHE:O	1:A:1614:GLN:NE2	2.44	0.42
1:A:2036:GLN:NE2	1:A:2045:GLN:OE1	2.50	0.42
1:A:2643:LEU:HD12	1:A:2644:LEU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2758:PHE:HB3	1:A:2809:ILE:HG21	2.01	0.42
1:A:3078:ARG:HA	1:A:3081:MET:SD	2.59	0.42
1:A:3081:MET:HA	1:A:3089:LYS:NZ	2.34	0.42
1:A:3204:ALA:HB2	1:A:3284:TRP:CD2	2.55	0.42
1:A:3269:VAL:HA	1:A:3273:THR:OG1	2.20	0.42
1:A:3478:MET:N	1:A:3478:MET:SD	2.92	0.42
1:A:3614:LYS:H	1:A:3614:LYS:HG2	1.56	0.42
1:A:4165:GLU:HA	1:A:4168:GLU:HG2	2.02	0.42
1:A:4874:MET:CE	1:A:4874:MET:HA	2.50	0.42
2:E:36:PHE:CE1	2:E:97:LEU:HD11	2.55	0.42
1:B:115:ARG:NE	1:B:399:GLN:HE21	2.17	0.42
1:B:214:VAL:CG2	1:B:339:ILE:HB	2.50	0.42
1:B:886:ARG:HG3	1:B:891:TRP:HE3	1.83	0.42
1:B:893:TYR:H	1:B:962:SER:H	1.67	0.42
1:B:1130:GLN:HG2	1:B:1132:TRP:CD1	2.55	0.42
1:B:1586:ASN:HD21	1:B:1588:ALA:HB3	1.85	0.42
1:B:2014:ASP:N	1:B:2014:ASP:OD1	2.53	0.42
1:B:2647:HIS:HB2	1:B:2650:ARG:HE	1.84	0.42
1:B:3192:GLU:O	1:B:3196:ARG:HG2	2.19	0.42
1:B:3348:ARG:CZ	1:B:3348:ARG:HA	2.50	0.42
1:B:3629:ARG:HE	1:B:3632:VAL:HG21	1.85	0.42
1:B:3892:CYS:SG	1:B:3968:TYR:HA	2.59	0.42
1:B:4874:MET:HA	1:B:4874:MET:CE	2.50	0.42
1:D:239:ASP:O	1:D:241:GLN:NE2	2.51	0.42
1:D:917:GLU:HA	1:D:920:TYR:CE2	2.54	0.42
1:D:957:LYS:HD3	1:D:957:LYS:HA	1.81	0.42
1:D:2155:LEU:HD22	1:D:2188:ASN:OD1	2.20	0.42
1:D:2647:HIS:HB2	1:D:2650:ARG:HE	1.84	0.42
1:D:3192:GLU:O	1:D:3196:ARG:HG2	2.19	0.42
1:D:3391:GLU:HG3	1:D:3395:ARG:CZ	2.50	0.42
1:D:3762:ARG:NH1	1:D:4752:ALA:O	2.52	0.42
1:D:3995:VAL:O	1:D:3999:MET:HG2	2.19	0.42
1:D:4184:MET:SD	1:D:4188:ARG:NH2	2.77	0.42
1:D:4634:GLU:OE2	1:D:4637:GLY:N	2.53	0.42
1:D:5017:ARG:HH11	1:D:5017:ARG:HG3	1.83	0.42
1:C:115:ARG:HE	1:C:399:GLN:HE21	1.66	0.42
1:C:214:VAL:CG2	1:C:339:ILE:HB	2.50	0.42
1:C:276:TRP:HZ3	1:C:346:CYS:SG	2.43	0.42
1:C:846:LEU:HD23	1:C:847:SER:N	2.34	0.42
1:C:982:THR:HA	1:C:985:VAL:HG22	2.00	0.42
1:C:1101:ARG:HB3	1:C:1123:VAL:HB	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1586:ASN:HD21	1:C:1588:ALA:HB3	1.85	0.42
1:C:1716:ILE:CG2	1:C:1847:THR:HG21	2.50	0.42
1:C:2014:ASP:OD1	1:C:2014:ASP:N	2.53	0.42
1:C:3236:VAL:HA	1:C:3239:MET:HE2	2.02	0.42
1:C:3629:ARG:HE	1:C:3632:VAL:HG21	1.85	0.42
1:C:3647:HIS:O	1:C:3651:ASN:ND2	2.52	0.42
1:C:4159:ARG:HA	1:C:4162:ASN:ND2	2.32	0.42
1:C:4634:GLU:OE2	1:C:4637:GLY:N	2.53	0.42
1:C:4718:LYS:HD3	1:C:4718:LYS:N	2.35	0.42
1:C:4958:CYS:CB	1:C:4961:CYS:HB2	2.50	0.42
1:A:438:ILE:H	1:A:438:ILE:HG13	1.67	0.42
1:A:645:ARG:CZ	1:A:826:ILE:HD13	2.50	0.42
1:A:1091:GLU:HG2	1:A:1148:VAL:HG12	2.01	0.42
1:A:1100:MET:HB3	1:A:1193:SER:O	2.20	0.42
1:A:1613:LEU:HD23	1:A:1613:LEU:HA	1.81	0.42
1:A:2522:LEU:C	1:A:2527:LEU:HG	2.40	0.42
1:A:2550:LEU:HA	1:A:2553:TYR:CE2	2.54	0.42
1:A:3327:LEU:HB2	1:A:3364:ARG:NH2	2.33	0.42
1:A:3554:GLN:HA	1:A:3557:LEU:HG	2.00	0.42
1:A:4634:GLU:OE2	1:A:4637:GLY:N	2.53	0.42
1:A:4823:LEU:HD22	1:B:4843:LEU:HD22	2.00	0.42
1:B:182:LEU:HD13	1:B:182:LEU:HA	1.88	0.42
1:B:332:GLU:OE1	1:B:332:GLU:N	2.52	0.42
1:B:484:LEU:O	1:B:488:LEU:HG	2.20	0.42
1:B:551:LEU:HB3	1:B:589:LEU:HD11	1.99	0.42
1:B:875:ALA:O	1:B:878:ILE:HG12	2.19	0.42
1:B:1153:ILE:CD1	1:B:1160:ILE:HG12	2.50	0.42
1:B:1842:LEU:O	1:B:1846:SER:OG	2.29	0.42
1:B:2199:ARG:HA	1:B:2204:HIS:CE1	2.54	0.42
1:B:2336:ARG:HG3	1:B:2435:ARG:HE	1.83	0.42
1:B:2358:ILE:HG13	1:B:2359:ARG:NH2	2.34	0.42
1:B:2522:LEU:C	1:B:2527:LEU:HG	2.40	0.42
1:B:2536:LEU:HD13	1:B:2547:ALA:HB1	2.01	0.42
1:B:3397:GLU:O	1:B:3400:VAL:HG22	2.18	0.42
1:B:3522:LEU:HB3	1:C:1220:GLN:CD	2.40	0.42
1:B:3595:ARG:HA	1:B:3598:GLU:OE1	2.19	0.42
1:B:3762:ARG:NH1	1:B:4752:ALA:O	2.52	0.42
1:B:4134:GLU:HB3	1:B:4135:PRO:HD3	2.00	0.42
1:B:4160:LEU:HD12	1:B:4160:LEU:HA	1.89	0.42
1:B:4185:GLY:O	1:B:4188:ARG:NH2	2.53	0.42
1:B:4718:LYS:HD3	1:B:4718:LYS:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4720:VAL:O	1:B:4724:VAL:HG23	2.20	0.42
1:D:332:GLU:OE1	1:D:332:GLU:N	2.52	0.42
1:D:375:LYS:HD2	1:D:376:ALA:N	2.34	0.42
1:D:596:ASN:ND2	1:D:599:VAL:HG23	2.35	0.42
1:D:960:MET:CE	1:D:960:MET:H	2.33	0.42
1:D:982:THR:HA	1:D:985:VAL:HG22	2.00	0.42
1:D:1220:GLN:OE1	1:C:3522:LEU:HD22	2.19	0.42
1:D:1771:LEU:O	1:D:1772:ARG:HD3	2.19	0.42
1:D:2643:LEU:HD12	1:D:2644:LEU:N	2.34	0.42
1:D:2686:LEU:HD22	1:D:2997:PHE:CD1	2.55	0.42
1:D:2761:TYR:HA	1:D:2764:GLU:HB2	2.02	0.42
1:D:3023:LYS:HD2	1:D:3023:LYS:C	2.40	0.42
1:D:4579:PHE:O	1:D:4632:LEU:HG	2.20	0.42
1:C:545:ASP:OD1	1:C:545:ASP:N	2.50	0.42
1:C:904:HIS:HB3	1:C:907:LEU:HB3	2.02	0.42
1:C:1130:GLN:HG2	1:C:1132:TRP:CD1	2.55	0.42
1:C:1521:ASP:HB3	1:C:1524:THR:HB	2.01	0.42
1:C:2630:VAL:HG21	1:C:2678:LEU:HD13	2.01	0.42
1:C:2967:MET:O	1:C:2971:GLN:HG2	2.19	0.42
1:C:3081:MET:HA	1:C:3089:LYS:NZ	2.34	0.42
1:C:3354:LEU:HB2	1:C:3415:TYR:CE2	2.54	0.42
1:C:3355:HIS:HA	1:C:3359:ILE:HD12	2.02	0.42
1:A:418:LEU:HA	1:A:421:PHE:CE2	2.55	0.42
1:A:999:ASP:O	1:A:1003:GLN:HG3	2.19	0.42
1:A:2006:ILE:O	1:A:2010:LEU:HD23	2.20	0.42
1:A:2686:LEU:HD22	1:A:2997:PHE:CD1	2.55	0.42
1:A:3285:TRP:HA	1:A:3307:VAL:HB	2.02	0.42
1:A:3348:ARG:CZ	1:A:3348:ARG:HA	2.50	0.42
1:A:3453:ARG:O	1:A:3456:GLN:HG2	2.19	0.42
2:G:6:THR:HB	2:G:66:MET:HE3	2.01	0.42
1:B:125:ARG:O	1:B:125:ARG:HD2	2.20	0.42
1:B:308:HIS:O	1:B:308:HIS:CG	2.73	0.42
1:B:493:ARG:O	1:B:496:VAL:HG22	2.20	0.42
1:B:809:ALA:HB2	1:B:1017:ARG:HH12	1.84	0.42
1:B:1006:SER:OG	1:B:1007:TYR:N	2.52	0.42
1:B:1747:LEU:HD23	1:B:1747:LEU:HA	1.89	0.42
1:B:2550:LEU:HA	1:B:2553:TYR:CE2	2.54	0.42
1:B:3290:GLU:OE1	1:B:3308:THR:HA	2.20	0.42
1:B:3446:SER:HA	1:B:3452:LYS:HD3	2.00	0.42
1:B:5026:ASP:OD1	1:B:5027:CYS:N	2.52	0.42
1:D:109:LEU:H	1:D:117:TYR:HE1	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:418:LEU:HA	1:D:421:PHE:CE2	2.55	0.42
1:D:675:LEU:HD22	1:D:786:GLY:HA3	2.01	0.42
1:D:793:LEU:HD23	1:D:793:LEU:HA	1.83	0.42
1:D:887:ILE:HG12	1:D:959:TYR:CG	2.55	0.42
1:D:904:HIS:HB3	1:D:907:LEU:HB3	2.02	0.42
1:D:2351:ASN:HB3	1:D:2355:ARG:NH2	2.35	0.42
1:D:3105:LYS:O	1:D:3108:GLU:HG2	2.19	0.42
1:D:3762:ARG:HH12	1:D:4754:ASN:N	2.18	0.42
1:D:4569:LEU:O	1:D:4573:ILE:HD12	2.19	0.42
1:D:4720:VAL:O	1:D:4724:VAL:HG23	2.20	0.42
1:C:928:THR:HG22	1:C:988:LEU:HD11	2.02	0.42
1:C:1274:HIS:HB3	1:C:1277:TRP:HB2	2.01	0.42
1:C:2265:LEU:HB2	1:C:2330:ARG:HD3	2.01	0.42
1:C:2447:LYS:HZ2	1:C:2449:GLU:H	1.68	0.42
1:C:2479:LEU:H	1:C:2479:LEU:HD22	1.85	0.42
1:C:3442:PHE:CE2	1:C:3605:HIS:HB3	2.55	0.42
1:C:3762:ARG:HH12	1:C:4754:ASN:N	2.18	0.42
1:C:4241:THR:HG22	1:C:4245:MET:CE	2.50	0.42
1:C:4963:ILE:HD11	1:C:5026:ASP:N	2.35	0.42
1:A:904:HIS:HB3	1:A:907:LEU:HB3	2.02	0.42
1:A:928:THR:HG22	1:A:988:LEU:HD11	2.02	0.42
1:A:982:THR:HA	1:A:985:VAL:HG22	2.00	0.42
1:A:1092:PHE:HD1	1:A:1202:LEU:HB3	1.84	0.42
1:A:1581:LEU:HA	1:A:1584:ARG:HB2	1.99	0.42
1:A:2765:LYS:HZ1	1:A:2856:ASN:N	2.18	0.42
1:A:2766:TRP:O	1:A:2770:LYS:HG3	2.19	0.42
1:A:3371:LYS:O	1:A:3375:GLU:HG3	2.19	0.42
1:A:3595:ARG:HA	1:A:3598:GLU:OE1	2.19	0.42
1:A:3652:MET:HG2	1:A:3652:MET:H	1.60	0.42
1:A:4835:LYS:O	1:A:4839:MET:SD	2.78	0.42
2:E:100:ASP:N	2:E:100:ASP:OD1	2.52	0.42
1:B:426:ARG:HG3	1:B:431:PRO:HA	2.00	0.42
1:B:603:LEU:HD11	1:B:621:ILE:HG12	2.02	0.42
1:B:683:ARG:HG2	1:B:707:VAL:O	2.20	0.42
1:B:790:ARG:HA	1:B:1627:ALA:HA	2.02	0.42
1:B:1092:PHE:HD1	1:B:1202:LEU:HB3	1.84	0.42
1:B:1100:MET:HB3	1:B:1193:SER:O	2.20	0.42
1:B:1229:ASN:ND2	1:B:1827:ARG:HG3	2.35	0.42
1:B:2116:LEU:O	1:B:2120:MET:HG2	2.19	0.42
1:B:2265:LEU:HB2	1:B:2330:ARG:HD3	2.01	0.42
1:B:2889:LYS:HA	1:B:2892:GLN:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3614:LYS:H	1:B:3614:LYS:HG2	1.56	0.42
1:B:3647:HIS:O	1:B:3651:ASN:ND2	2.52	0.42
1:B:4003:LEU:HD21	1:B:4012:LEU:HD23	2.02	0.42
1:B:4247:ILE:O	1:B:4251:ILE:HG23	2.19	0.42
1:B:4999:ASP:OD1	1:B:5000:GLU:N	2.52	0.42
1:D:214:VAL:HG12	1:D:341:TYR:CG	2.54	0.42
1:D:308:HIS:O	1:D:308:HIS:CG	2.73	0.42
1:D:598:LYS:HD2	1:D:598:LYS:HA	1.84	0.42
1:D:1021:LEU:O	1:D:1021:LEU:HD23	2.20	0.42
1:D:1290:ARG:HB3	1:D:1598:GLN:HB2	2.00	0.42
1:D:1521:ASP:HB3	1:D:1524:THR:HB	2.01	0.42
1:D:2006:ILE:O	1:D:2010:LEU:HD23	2.20	0.42
1:D:2377:LEU:HD13	1:D:2469:ILE:HG13	2.01	0.42
1:D:2527:LEU:O	1:D:2531:ARG:HG2	2.20	0.42
1:D:2914:LYS:H	1:D:2914:LYS:HG3	1.69	0.42
1:D:3402:CYS:SG	1:D:3451:PHE:HE1	2.42	0.42
1:D:3589:PRO:O	1:D:3593:VAL:HG13	2.20	0.42
1:D:3985:LEU:O	1:D:3989:VAL:HG23	2.20	0.42
1:C:418:LEU:HA	1:C:421:PHE:CE2	2.55	0.42
1:C:469:ARG:NH2	1:C:3710:LEU:O	2.48	0.42
1:C:598:LYS:HD2	1:C:598:LYS:HA	1.84	0.42
1:C:809:ALA:HB2	1:C:1017:ARG:HH12	1.84	0.42
1:C:897:ARG:HG3	1:C:904:HIS:CE1	2.55	0.42
1:C:960:MET:CE	1:C:960:MET:H	2.33	0.42
1:C:1092:PHE:HD1	1:C:1202:LEU:HB3	1.84	0.42
1:C:1131:ARG:NH1	1:C:1139:PHE:HB2	2.32	0.42
1:C:1452:TRP:CD1	1:C:1452:TRP:N	2.85	0.42
1:C:1607:ARG:H	1:C:1652:GLU:CD	2.23	0.42
1:C:2423:MET:HE1	1:C:2494:PHE:HA	2.01	0.42
1:C:2608:MET:HG2	1:C:2608:MET:H	1.74	0.42
1:C:2647:HIS:HB2	1:C:2650:ARG:HE	1.84	0.42
1:C:3023:LYS:HD2	1:C:3023:LYS:C	2.40	0.42
1:C:3402:CYS:SG	1:C:3451:PHE:HE1	2.42	0.42
1:C:3527:PRO:HA	1:C:3530:GLN:HG3	2.02	0.42
1:C:3547:GLU:H	1:C:3547:GLU:CD	2.19	0.42
1:C:5006:GLN:O	1:C:5010:VAL:HG23	2.19	0.42
1:A:840:VAL:HG13	1:A:1199:VAL:HG22	2.02	0.42
1:A:1153:ILE:CD1	1:A:1160:ILE:HG12	2.50	0.42
1:A:1586:ASN:HD21	1:A:1588:ALA:HB3	1.85	0.42
1:A:2349:ASN:OD1	1:A:3849:ARG:NH2	2.53	0.42
1:A:2785:LEU:HD23	1:A:2785:LEU:HA	1.94	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3431:ALA:HA	1:A:3434:LEU:HD12	2.01	0.42
1:A:3440:GLU:HA	1:A:3443:ILE:HD12	2.01	0.42
1:A:3629:ARG:HE	1:A:3632:VAL:HG21	1.85	0.42
1:A:4031:LEU:HD23	1:A:4031:LEU:HA	1.88	0.42
1:A:4150:LEU:HA	1:A:4150:LEU:HD23	1.76	0.42
1:A:4185:GLY:O	1:A:4188:ARG:NH2	2.53	0.42
1:A:4204:GLN:O	1:A:4207:MET:HG2	2.19	0.42
1:A:4720:VAL:O	1:A:4724:VAL:HG23	2.20	0.42
1:A:4796:MET:O	1:A:4800:LEU:HG	2.20	0.42
2:G:8:SER:OG	2:G:71:ARG:HB3	2.20	0.42
2:G:59:TRP:HE1	2:G:99:PHE:HB2	1.84	0.42
1:B:663:TYR:HD2	1:B:804:PRO:HB3	1.85	0.42
1:B:699:GLY:N	1:B:1647:CYS:SG	2.84	0.42
1:B:1082:THR:HG21	1:B:1107:PRO:HG3	2.02	0.42
1:B:1968:LYS:HE2	1:B:1968:LYS:HB2	1.80	0.42
1:B:2244:ARG:HG2	1:B:2248:ARG:HH12	1.84	0.42
1:B:2630:VAL:O	1:B:2633:LEU:HD22	2.20	0.42
1:B:3023:LYS:HD2	1:B:3023:LYS:C	2.40	0.42
1:B:3105:LYS:O	1:B:3108:GLU:HG2	2.19	0.42
1:B:3232:LEU:HD13	1:B:3232:LEU:HA	1.84	0.42
1:B:3453:ARG:HA	1:B:3456:GLN:NE2	2.35	0.42
1:B:3453:ARG:O	1:B:3456:GLN:HG2	2.19	0.42
1:B:3527:PRO:HA	1:B:3530:GLN:HG3	2.02	0.42
1:B:3941:ASP:OD1	1:B:3941:ASP:N	2.51	0.42
1:B:4634:GLU:OE2	1:B:4637:GLY:N	2.53	0.42
1:B:4865:LYS:HB2	1:B:4875:LYS:NZ	2.35	0.42
1:B:4958:CYS:CB	1:B:4961:CYS:HB2	2.50	0.42
1:D:115:ARG:NE	1:D:399:GLN:HE21	2.17	0.42
1:D:645:ARG:CZ	1:D:826:ILE:HD13	2.50	0.42
1:D:909:ASN:O	1:D:913:LEU:N	2.42	0.42
1:D:1153:ILE:CD1	1:D:1160:ILE:HG12	2.50	0.42
1:D:1265:ASP:OD2	1:D:1265:ASP:N	2.48	0.42
1:D:2233:CYS:O	1:D:2236:LEU:N	2.53	0.42
1:D:3352:GLU:OE2	1:D:3352:GLU:N	2.34	0.42
1:D:3366:ARG:HH12	1:D:3370:GLY:HA3	1.85	0.42
1:D:3707:ARG:O	1:D:3711:THR:OG1	2.27	0.42
1:D:4147:LEU:HD13	1:D:4164:LEU:HD23	2.02	0.42
1:D:4718:LYS:HD3	1:D:4718:LYS:N	2.35	0.42
1:D:4963:ILE:HD11	1:D:5026:ASP:N	2.35	0.42
1:D:5026:ASP:OD1	1:D:5027:CYS:N	2.52	0.42
1:C:159:GLU:OE2	1:C:160:GLY:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:234:SER:OG	1:C:238:SER:OG	2.37	0.42
1:C:438:ILE:H	1:C:438:ILE:HG13	1.67	0.42
1:C:1011:GLN:HB3	1:C:1019:PRO:HD2	2.01	0.42
1:C:1228:ILE:HG22	1:C:1827:ARG:NH1	2.34	0.42
1:C:1259:ARG:HH12	1:C:1593:PRO:HA	1.85	0.42
1:C:1786:LEU:HD12	1:C:1786:LEU:HA	1.92	0.42
1:C:2522:LEU:C	1:C:2527:LEU:HG	2.40	0.42
1:C:2716:ASP:OD1	1:C:2716:ASP:N	2.53	0.42
1:C:2999:ALA:O	1:C:3003:LEU:HB2	2.20	0.42
1:C:3391:GLU:HG3	1:C:3395:ARG:CZ	2.50	0.42
1:C:4147:LEU:HD13	1:C:4164:LEU:HD23	2.02	0.42
1:C:4185:GLY:O	1:C:4188:ARG:NH2	2.53	0.42
1:C:4579:PHE:O	1:C:4632:LEU:HG	2.20	0.42
1:A:39:ALA:O	1:A:64:ILE:HD11	2.20	0.41
1:A:109:LEU:H	1:A:117:TYR:HE1	1.66	0.41
1:A:117:TYR:OH	1:A:146:CYS:O	2.31	0.41
1:A:359:TYR:HB2	1:A:374:LYS:HD2	2.02	0.41
1:A:603:LEU:HD11	1:A:621:ILE:HG12	2.02	0.41
1:A:664:PHE:HB3	1:A:811:CYS:SG	2.60	0.41
1:A:683:ARG:HG2	1:A:707:VAL:O	2.20	0.41
1:A:954:LYS:HD2	1:A:954:LYS:HA	1.75	0.41
1:A:1228:ILE:HG22	1:A:1827:ARG:NH1	2.34	0.41
1:A:1980:LEU:O	1:A:1984:PHE:HB3	2.20	0.41
1:A:2225:PHE:CB	1:A:2228:MET:HE2	2.50	0.41
1:A:2480:GLY:C	1:A:2483:GLY:H	2.24	0.41
1:A:2608:MET:HG2	1:A:2608:MET:H	1.74	0.41
1:A:2630:VAL:O	1:A:2633:LEU:HD22	2.20	0.41
1:A:2963:LEU:HD23	1:A:2963:LEU:HA	1.84	0.41
1:A:3634:ALA:O	1:A:3637:ARG:NH2	2.53	0.41
1:A:3702:VAL:HG13	1:A:3778:MET:SD	2.60	0.41
2:H:40:ARG:HD2	2:H:40:ARG:N	2.34	0.41
2:G:56:ILE:HD12	2:G:56:ILE:H	1.85	0.41
2:F:21:THR:HB	2:F:107:GLU:HB2	2.02	0.41
1:B:183:SER:OG	1:B:186:SER:OG	2.32	0.41
1:B:418:LEU:HA	1:B:421:PHE:CE2	2.55	0.41
1:B:793:LEU:HD23	1:B:793:LEU:HA	1.83	0.41
1:B:891:TRP:CA	1:B:902:ARG:HE	2.32	0.41
1:B:897:ARG:HG3	1:B:904:HIS:CE1	2.55	0.41
1:B:1089:TYR:HD2	1:B:1152:MET:SD	2.43	0.41
1:B:1091:GLU:HG2	1:B:1148:VAL:HG12	2.01	0.41
1:B:2224:ARG:H	1:B:2224:ARG:HG2	1.70	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2349:ASN:OD1	1:B:3849:ARG:NH2	2.53	0.41
1:B:2351:ASN:HB3	1:B:2355:ARG:NH2	2.35	0.41
1:B:3392:LEU:HB3	1:B:3395:ARG:HH21	1.85	0.41
1:B:3543:LYS:N	1:B:3543:LYS:HD3	2.35	0.41
1:B:3707:ARG:O	1:B:3711:THR:OG1	2.27	0.41
1:B:4183:ILE:HD12	1:B:5021:PHE:O	2.20	0.41
1:B:4680:LYS:O	1:B:4685:GLY:N	2.31	0.41
1:B:4876:CYS:HB2	1:B:4882:CYS:HB2	1.37	0.41
1:D:315:CYS:SG	1:D:349:GLN:HB3	2.60	0.41
1:D:359:TYR:HB2	1:D:374:LYS:HD2	2.02	0.41
1:D:493:ARG:O	1:D:496:VAL:HG22	2.20	0.41
1:D:897:ARG:HG3	1:D:904:HIS:CE1	2.55	0.41
1:D:953:THR:O	1:D:968:ALA:HB1	2.20	0.41
1:D:1263:THR:N	1:D:1266:THR:O	2.33	0.41
1:D:2198:MET:HA	1:D:2203:MET:HE1	2.02	0.41
1:D:2349:ASN:OD1	1:D:3849:ARG:NH2	2.53	0.41
1:D:2630:VAL:O	1:D:2633:LEU:HD22	2.20	0.41
1:D:2716:ASP:N	1:D:2716:ASP:OD1	2.53	0.41
1:D:3158:LEU:HD23	1:D:3158:LEU:H	1.85	0.41
1:D:3403:ARG:HA	1:D:3458:PHE:CZ	2.55	0.41
1:D:3442:PHE:CE2	1:D:3605:HIS:HB3	2.55	0.41
1:D:3543:LYS:HD3	1:D:3543:LYS:N	2.35	0.41
1:D:4796:MET:O	1:D:4800:LEU:HG	2.20	0.41
1:D:4874:MET:HA	1:D:4874:MET:CE	2.50	0.41
1:C:23:GLN:HB3	1:C:34:LYS:HZ3	1.85	0.41
1:C:359:TYR:HB2	1:C:374:LYS:HD2	2.02	0.41
1:C:887:ILE:HG12	1:C:959:TYR:CG	2.55	0.41
1:C:1091:GLU:HG2	1:C:1148:VAL:HG12	2.01	0.41
1:C:1100:MET:HB3	1:C:1193:SER:O	2.20	0.41
1:C:1771:LEU:O	1:C:1772:ARG:HD3	2.19	0.41
1:C:2116:LEU:O	1:C:2120:MET:HG2	2.19	0.41
1:C:2199:ARG:HA	1:C:2204:HIS:CE1	2.54	0.41
1:C:2889:LYS:HA	1:C:2892:GLN:HG2	2.02	0.41
1:C:3290:GLU:OE1	1:C:3308:THR:HA	2.20	0.41
1:C:3431:ALA:HA	1:C:3434:LEU:HD12	2.01	0.41
1:C:3453:ARG:HA	1:C:3456:GLN:NE2	2.35	0.41
1:C:3560:GLN:OE1	1:C:3560:GLN:N	2.30	0.41
1:C:3946:GLN:OE1	1:C:3949:ARG:NE	2.49	0.41
1:A:41:GLY:O	1:A:45:ARG:NH2	2.47	0.41
1:A:276:TRP:HZ3	1:A:346:CYS:SG	2.43	0.41
1:A:477:LEU:O	1:A:480:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:957:LYS:HD3	1:A:957:LYS:HA	1.80	0.41
1:A:960:MET:H	1:A:960:MET:CE	2.33	0.41
1:A:1160:ILE:HG13	1:A:1182:ILE:HD13	2.01	0.41
1:A:1552:VAL:HB	1:A:1564:PHE:CZ	2.56	0.41
1:A:1968:LYS:HE2	1:A:1968:LYS:HB2	1.80	0.41
1:A:2090:LYS:HA	1:A:2091:PRO:HD3	1.96	0.41
1:A:2716:ASP:OD1	1:A:2716:ASP:N	2.53	0.41
1:A:3005:LEU:O	1:A:3008:GLN:NE2	2.54	0.41
1:A:3023:LYS:HD2	1:A:3023:LYS:C	2.40	0.41
1:A:3312:LEU:O	1:A:3345:ILE:HD11	2.21	0.41
1:A:3410:PRO:O	1:A:3414:ARG:NH1	2.54	0.41
1:A:3522:LEU:HB3	1:B:1220:GLN:CD	2.38	0.41
1:A:4028:LEU:HG	1:A:4146:LEU:HD13	2.03	0.41
1:A:4569:LEU:O	1:A:4573:ILE:HD12	2.19	0.41
2:F:29:MET:HA	2:F:35:LYS:HA	2.02	0.41
1:B:115:ARG:HE	1:B:399:GLN:HE21	1.66	0.41
1:B:359:TYR:HB2	1:B:374:LYS:HD2	2.02	0.41
1:B:645:ARG:CZ	1:B:826:ILE:HD13	2.50	0.41
1:B:840:VAL:HG13	1:B:1199:VAL:HG22	2.02	0.41
1:B:887:ILE:HG12	1:B:959:TYR:CG	2.55	0.41
1:B:1021:LEU:O	1:B:1021:LEU:HD23	2.20	0.41
1:B:1771:LEU:O	1:B:1772:ARG:HD3	2.19	0.41
1:B:2198:MET:HA	1:B:2203:MET:HE1	2.02	0.41
1:B:2199:ARG:HA	1:B:2204:HIS:HE1	1.86	0.41
1:B:2643:LEU:HD12	1:B:2644:LEU:N	2.34	0.41
1:B:2770:LYS:HB3	1:B:2786:LYS:HZ2	1.85	0.41
1:B:4041:ALA:O	1:B:4045:VAL:HG12	2.21	0.41
1:B:4866:SER:OG	1:B:4868:ASP:O	2.33	0.41
1:B:4943:LEU:O	1:B:4947:GLN:NE2	2.34	0.41
1:D:276:TRP:HZ3	1:D:346:CYS:SG	2.43	0.41
1:D:477:LEU:O	1:D:480:GLU:HG3	2.21	0.41
1:D:1160:ILE:HG13	1:D:1182:ILE:HD13	2.01	0.41
1:D:1786:LEU:HD12	1:D:1786:LEU:HA	1.91	0.41
1:D:1848:LEU:HD23	1:D:1848:LEU:HA	1.88	0.41
1:D:2377:LEU:HB2	1:D:2465:ASP:OD2	2.19	0.41
1:D:3112:LEU:HD11	1:D:3182:TYR:CE2	2.55	0.41
1:D:3354:LEU:HB2	1:D:3415:TYR:CE2	2.54	0.41
1:D:3412:LEU:O	1:D:3416:VAL:HG22	2.20	0.41
1:D:3629:ARG:HE	1:D:3632:VAL:HG21	1.85	0.41
1:C:39:ALA:O	1:C:64:ILE:HD11	2.20	0.41
1:C:125:ARG:HD2	1:C:125:ARG:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:332:GLU:OE1	1:C:332:GLU:N	2.52	0.41
1:C:462:GLU:OE2	1:C:462:GLU:N	2.38	0.41
1:C:484:LEU:O	1:C:488:LEU:HG	2.20	0.41
1:C:596:ASN:ND2	1:C:599:VAL:HG23	2.34	0.41
1:C:1089:TYR:HD2	1:C:1152:MET:SD	2.43	0.41
1:C:2155:LEU:HD12	1:C:2155:LEU:HA	1.76	0.41
1:C:2198:MET:HA	1:C:2203:MET:HE1	2.02	0.41
1:C:2349:ASN:OD1	1:C:3849:ARG:NH2	2.53	0.41
1:C:2351:ASN:HB3	1:C:2355:ARG:NH2	2.35	0.41
1:C:2630:VAL:O	1:C:2633:LEU:HD22	2.20	0.41
1:C:2895:GLU:HG2	1:C:2895:GLU:H	1.70	0.41
1:C:3105:LYS:O	1:C:3108:GLU:HG2	2.19	0.41
1:C:3232:LEU:HD13	1:C:3232:LEU:HA	1.84	0.41
1:C:4147:LEU:HA	1:C:4147:LEU:HD23	1.81	0.41
1:C:4204:GLN:O	1:C:4207:MET:HG2	2.19	0.41
1:C:4874:MET:HA	1:C:4874:MET:CE	2.50	0.41
1:A:305:CYS:SG	1:A:306:LYS:N	2.93	0.41
1:A:575:LEU:HA	1:A:575:LEU:HD12	1.76	0.41
1:A:1079:LYS:NZ	1:A:1108:GLU:HA	2.36	0.41
1:A:1953:HIS:O	1:A:1957:SER:OG	2.36	0.41
1:A:2325:PRO:HG3	1:A:2422:ILE:HG22	2.02	0.41
1:A:2332:LEU:HD23	1:A:2332:LEU:HA	1.95	0.41
1:A:2880:GLU:OE2	1:A:2884:ASN:ND2	2.50	0.41
1:A:3290:GLU:OE1	1:A:3308:THR:HA	2.20	0.41
1:A:3630:ARG:HE	1:A:3630:ARG:HB2	1.74	0.41
1:A:4095:LYS:HA	1:A:4098:ASP:OD2	2.19	0.41
1:A:4649:LEU:O	1:A:4652:LEU:HD12	2.21	0.41
2:G:67:SER:HB3	2:G:70:GLN:OE1	2.20	0.41
2:F:52:LYS:HB3	2:F:54:GLU:OE1	2.20	0.41
1:B:39:ALA:O	1:B:64:ILE:HD11	2.20	0.41
1:B:308:HIS:CD2	1:B:310:LYS:HB3	2.54	0.41
1:B:688:LEU:HD23	1:B:712:TYR:HD1	1.84	0.41
1:B:957:LYS:HA	1:B:957:LYS:HD3	1.81	0.41
1:B:1252:HIS:CE1	1:B:1255:TYR:H	2.39	0.41
1:B:1607:ARG:H	1:B:1652:GLU:CD	2.23	0.41
1:B:2010:LEU:HD11	1:B:3653:PHE:CE1	2.56	0.41
1:B:2012:PHE:HD1	1:B:3661:TRP:HZ2	1.68	0.41
1:B:2919:ASP:OD1	1:B:2922:LYS:NZ	2.50	0.41
1:B:3391:GLU:HG3	1:B:3395:ARG:CZ	2.50	0.41
1:B:4563:ARG:HD2	1:B:4563:ARG:HA	1.82	0.41
1:B:4664:LEU:HD12	1:B:4664:LEU:HA	1.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4963:ILE:HD11	1:B:5026:ASP:N	2.35	0.41
1:D:214:VAL:CG2	1:D:339:ILE:HB	2.50	0.41
1:D:462:GLU:OE2	1:D:462:GLU:N	2.38	0.41
1:D:683:ARG:HG2	1:D:707:VAL:O	2.20	0.41
1:D:840:VAL:HG13	1:D:1199:VAL:HG22	2.02	0.41
1:D:1585:LYS:O	1:D:1585:LYS:HD3	2.20	0.41
1:D:1716:ILE:CG2	1:D:1847:THR:HG21	2.50	0.41
1:D:1749:PRO:HA	1:D:1750:PRO:HD3	1.96	0.41
1:D:2116:LEU:O	1:D:2120:MET:HG2	2.19	0.41
1:D:2480:GLY:C	1:D:2483:GLY:H	2.23	0.41
1:D:2481:LYS:HZ2	1:D:2486:VAL:HG22	1.86	0.41
1:D:2861:ASP:HB3	1:D:2928:LYS:HG3	2.02	0.41
1:D:2904:LEU:O	1:D:2906:VAL:HG22	2.21	0.41
1:D:2967:MET:O	1:D:2971:GLN:HG2	2.19	0.41
1:D:3005:LEU:O	1:D:3008:GLN:NE2	2.54	0.41
1:D:3081:MET:HA	1:D:3089:LYS:HZ2	1.85	0.41
1:D:3269:VAL:HA	1:D:3273:THR:OG1	2.20	0.41
1:D:3392:LEU:HB3	1:D:3395:ARG:HH21	1.85	0.41
1:D:3566:SER:N	1:D:3569:LEU:HD12	2.35	0.41
1:D:3634:ALA:O	1:D:3637:ARG:NH2	2.53	0.41
1:D:4241:THR:HG22	1:D:4245:MET:CE	2.50	0.41
1:C:37:LEU:HD12	1:C:37:LEU:HA	1.80	0.41
1:C:115:ARG:NE	1:C:399:GLN:HE21	2.17	0.41
1:C:790:ARG:HA	1:C:1627:ALA:HA	2.02	0.41
1:C:999:ASP:O	1:C:1003:GLN:HG3	2.19	0.41
1:C:1526:LEU:HD12	1:C:1527:MET:H	1.86	0.41
1:C:1694:LEU:O	1:C:1698:LEU:HG	2.20	0.41
1:C:2480:GLY:C	1:C:2483:GLY:H	2.23	0.41
1:C:2761:TYR:HA	1:C:2764:GLU:HB2	2.02	0.41
1:C:3005:LEU:O	1:C:3008:GLN:NE2	2.54	0.41
1:C:3285:TRP:HA	1:C:3307:VAL:HB	2.02	0.41
1:C:3985:LEU:O	1:C:3989:VAL:HG23	2.20	0.41
1:C:4041:ALA:O	1:C:4045:VAL:HG12	2.21	0.41
1:C:4067:LYS:HE3	1:C:4067:LYS:HB2	1.75	0.41
1:C:4183:ILE:HD12	1:C:5021:PHE:O	2.21	0.41
1:C:4649:LEU:O	1:C:4652:LEU:HD12	2.21	0.41
1:C:4827:LEU:HD12	1:C:4828:SER:N	2.36	0.41
1:A:16:THR:HA	1:A:69:LEU:CD1	2.50	0.41
1:A:241:GLN:HB2	1:A:243:ARG:HE	1.86	0.41
1:A:308:HIS:O	1:A:308:HIS:CG	2.73	0.41
1:A:315:CYS:SG	1:A:349:GLN:HB3	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:349:GLN:HE22	1:A:355:LEU:C	2.23	0.41
1:A:484:LEU:O	1:A:488:LEU:HG	2.20	0.41
1:A:790:ARG:HA	1:A:1627:ALA:HA	2.02	0.41
1:A:887:ILE:HG12	1:A:959:TYR:CG	2.55	0.41
1:A:1089:TYR:HD2	1:A:1152:MET:SD	2.43	0.41
1:A:1130:GLN:HG2	1:A:1132:TRP:CD1	2.55	0.41
1:A:1252:HIS:CE1	1:A:1255:TYR:H	2.39	0.41
1:A:1690:ASP:CG	1:A:1693:GLN:H	2.22	0.41
1:A:2233:CYS:O	1:A:2236:LEU:N	2.53	0.41
1:A:2351:ASN:HB3	1:A:2355:ARG:NH2	2.35	0.41
1:A:2479:LEU:H	1:A:2479:LEU:HD22	1.85	0.41
1:A:2761:TYR:HA	1:A:2764:GLU:HB2	2.02	0.41
1:A:2889:LYS:HA	1:A:2892:GLN:HG2	2.02	0.41
1:A:3158:LEU:HD23	1:A:3158:LEU:H	1.85	0.41
1:A:3842:LEU:CA	1:A:3875:MET:HE3	2.50	0.41
1:A:4101:LYS:HB2	1:B:4730:ASP:OD1	2.21	0.41
1:A:4958:CYS:CB	1:A:4961:CYS:HB2	2.50	0.41
1:A:5026:ASP:OD1	1:A:5027:CYS:N	2.52	0.41
2:G:66:MET:CE	2:G:70:GLN:HG2	2.50	0.41
2:F:5:GLU:HB3	2:F:73:LYS:HE3	2.02	0.41
1:B:477:LEU:O	1:B:480:GLU:HG3	2.20	0.41
1:B:2480:GLY:C	1:B:2483:GLY:H	2.23	0.41
1:B:3082:LYS:HE2	1:B:3082:LYS:HB2	1.80	0.41
1:B:3403:ARG:HA	1:B:3458:PHE:CZ	2.55	0.41
1:B:3410:PRO:O	1:B:3414:ARG:NH1	2.54	0.41
1:B:3454:GLU:HG3	1:B:3454:GLU:H	1.72	0.41
1:B:3478:MET:CE	1:C:1141:ARG:NH1	2.81	0.41
1:B:3622:LYS:HB2	1:B:3622:LYS:HE2	1.71	0.41
1:B:3634:ALA:O	1:B:3637:ARG:NH2	2.53	0.41
1:B:4006:ASP:OD2	1:B:4008:SER:OG	2.37	0.41
1:D:19:GLU:OE1	1:D:206:CYS:HB3	2.20	0.41
1:D:196:MET:SD	1:D:196:MET:N	2.88	0.41
1:D:664:PHE:HB3	1:D:811:CYS:SG	2.60	0.41
1:D:894:GLY:HA3	1:D:903:LEU:HD23	2.03	0.41
1:D:1089:TYR:HD2	1:D:1152:MET:SD	2.43	0.41
1:D:1130:GLN:HG2	1:D:1132:TRP:CD1	2.55	0.41
1:D:1229:ASN:ND2	1:D:1827:ARG:HG3	2.35	0.41
1:D:2224:ARG:HB2	1:D:2225:PHE:CD2	2.54	0.41
1:D:3290:GLU:OE1	1:D:3308:THR:HA	2.20	0.41
1:D:3533:ILE:HG22	1:D:3537:LYS:HZ2	1.85	0.41
1:D:4028:LEU:HG	1:D:4146:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4827:LEU:HD12	1:D:4828:SER:N	2.36	0.41
1:C:407:THR:HG23	1:C:411:TYR:CE2	2.56	0.41
1:C:840:VAL:HG13	1:C:1199:VAL:HG22	2.02	0.41
1:C:1252:HIS:CE1	1:C:1255:TYR:H	2.39	0.41
1:C:1954:ARG:NH1	1:C:2042:CYS:HA	2.36	0.41
1:C:1980:LEU:O	1:C:1984:PHE:HB3	2.20	0.41
1:C:2010:LEU:HD11	1:C:3653:PHE:CE1	2.56	0.41
1:C:2527:LEU:O	1:C:2531:ARG:HG2	2.20	0.41
1:C:2758:PHE:HB3	1:C:2809:ILE:HG21	2.01	0.41
1:C:3124:GLY:O	1:C:3127:GLN:HG3	2.20	0.41
1:C:3204:ALA:HB2	1:C:3284:TRP:CD2	2.55	0.41
1:C:3589:PRO:O	1:C:3593:VAL:HG13	2.20	0.41
1:C:4720:VAL:O	1:C:4724:VAL:HG23	2.20	0.41
1:C:4876:CYS:HB2	1:C:4882:CYS:HB2	1.37	0.41
1:A:207:SER:OG	1:A:208:CYS:N	2.53	0.41
1:A:603:LEU:HG	1:A:1669:LEU:CD1	2.49	0.41
1:A:1021:LEU:O	1:A:1021:LEU:HD23	2.20	0.41
1:A:1229:ASN:ND2	1:A:1827:ARG:HG3	2.35	0.41
1:A:2377:LEU:HB2	1:A:2465:ASP:OD2	2.19	0.41
1:A:2786:LYS:HE3	1:A:2786:LYS:HB3	1.86	0.41
1:A:3106:MET:HE1	1:A:3132:THR:HB	2.03	0.41
1:A:3112:LEU:HD11	1:A:3182:TYR:CE2	2.55	0.41
1:A:3183:VAL:O	1:A:3187:ARG:HG3	2.21	0.41
1:A:3442:PHE:CE2	1:A:3605:HIS:HB3	2.55	0.41
1:A:3543:LYS:HD3	1:A:3543:LYS:N	2.35	0.41
1:A:3815:LYS:HB2	1:A:3816:MET:CE	2.50	0.41
1:A:4880:MET:CE	1:D:4579:PHE:HA	2.50	0.41
2:H:42:ARG:HB3	2:H:44:LYS:HZ2	1.85	0.41
1:B:276:TRP:HZ3	1:B:346:CYS:SG	2.43	0.41
1:B:1079:LYS:NZ	1:B:1108:GLU:HA	2.36	0.41
1:B:1265:ASP:OD2	1:B:1265:ASP:N	2.48	0.41
1:B:1567:GLY:C	1:B:1568:LYS:HD2	2.41	0.41
1:B:1568:LYS:CD	1:B:1574:PRO:HA	2.50	0.41
1:B:2178:MET:HE2	1:B:2179:ILE:N	2.35	0.41
1:B:2644:LEU:HD23	1:B:2647:HIS:CE1	2.56	0.41
1:B:2761:TYR:HA	1:B:2764:GLU:HB2	2.02	0.41
1:B:3005:LEU:O	1:B:3008:GLN:NE2	2.54	0.41
1:B:3227:ARG:NH2	1:B:3231:GLY:O	2.54	0.41
1:B:3269:VAL:HA	1:B:3273:THR:OG1	2.20	0.41
1:B:3689:GLU:O	1:B:3693:LYS:N	2.52	0.41
1:B:3969:ILE:CD1	1:B:3977:GLN:HG2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4165:GLU:HA	1:B:4168:GLU:HG2	2.02	0.41
1:B:4184:MET:SD	1:B:4188:ARG:NH2	2.77	0.41
1:B:4835:LYS:O	1:B:4839:MET:SD	2.78	0.41
1:D:308:HIS:CD2	1:D:311:ALA:H	2.37	0.41
1:D:1011:GLN:HB3	1:D:1019:PRO:HD2	2.00	0.41
1:D:1100:MET:HB3	1:D:1193:SER:O	2.20	0.41
1:D:1220:GLN:HA	1:C:3522:LEU:HD22	2.02	0.41
1:D:1259:ARG:HH12	1:D:1593:PRO:HA	1.85	0.41
1:D:1586:ASN:HD21	1:D:1588:ALA:HB3	1.85	0.41
1:D:1968:LYS:HE2	1:D:1968:LYS:HB2	1.80	0.41
1:D:2770:LYS:HB3	1:D:2786:LYS:HZ2	1.84	0.41
1:D:3056:LEU:H	1:D:3056:LEU:HD12	1.86	0.41
1:D:3204:ALA:HB2	1:D:3284:TRP:CD2	2.55	0.41
1:D:3312:LEU:O	1:D:3345:ILE:HD11	2.21	0.41
1:D:3514:LEU:HA	1:D:3517:MET:HG2	2.02	0.41
1:D:3702:VAL:HG13	1:D:3778:MET:SD	2.60	0.41
1:D:4865:LYS:HB2	1:D:4875:LYS:NZ	2.35	0.41
1:C:418:LEU:HA	1:C:421:PHE:CZ	2.56	0.41
1:C:795:GLY:HA3	1:C:812:HIS:CE1	2.56	0.41
1:C:881:LEU:HA	1:C:884:LEU:HD13	2.03	0.41
1:C:981:GLN:O	1:C:985:VAL:HG13	2.19	0.41
1:C:1082:THR:HG21	1:C:1107:PRO:HG3	2.02	0.41
1:C:1585:LYS:O	1:C:1585:LYS:HD3	2.20	0.41
1:C:1954:ARG:HH12	1:C:2042:CYS:HA	1.86	0.41
1:C:2233:CYS:O	1:C:2236:LEU:N	2.53	0.41
1:C:2325:PRO:HG3	1:C:2422:ILE:HG22	2.02	0.41
1:C:3543:LYS:HD3	1:C:3543:LYS:N	2.35	0.41
1:C:3689:GLU:O	1:C:3693:LYS:N	2.52	0.41
1:C:4028:LEU:HG	1:C:4146:LEU:HD13	2.03	0.41
1:C:4835:LYS:O	1:C:4839:MET:SD	2.78	0.41
1:A:57:ASN:OD1	1:A:57:ASN:N	2.54	0.41
1:A:407:THR:HG23	1:A:411:TYR:CE2	2.56	0.41
1:A:1954:ARG:NH1	1:A:2042:CYS:HA	2.36	0.41
1:A:3403:ARG:HA	1:A:3458:PHE:CZ	2.55	0.41
1:A:4041:ALA:O	1:A:4045:VAL:HG12	2.21	0.41
1:A:4582:VAL:HG13	1:B:4856:PHE:CZ	2.55	0.41
1:A:4799:SER:HA	1:A:4812:HIS:HE1	1.86	0.41
2:H:71:ARG:HA	2:H:102:GLU:OE2	2.21	0.41
2:G:42:ARG:HB3	2:G:44:LYS:HZ1	1.86	0.41
2:G:105:LYS:HA	2:G:105:LYS:HD2	1.69	0.41
1:B:207:SER:OG	1:B:208:CYS:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:928:THR:HG22	1:B:988:LEU:HD11	2.02	0.41
1:B:953:THR:O	1:B:968:ALA:HB1	2.20	0.41
1:B:1259:ARG:HH12	1:B:1593:PRO:HA	1.85	0.41
1:B:1552:VAL:HB	1:B:1564:PHE:CZ	2.56	0.41
1:B:1954:ARG:NH1	1:B:2042:CYS:HA	2.36	0.41
1:B:1980:LEU:O	1:B:1984:PHE:HB3	2.20	0.41
1:B:2368:LEU:N	1:B:2374:SER:O	2.34	0.41
1:B:2441:HIS:CA	1:B:2444:GLN:HE21	2.30	0.41
1:B:2527:LEU:O	1:B:2531:ARG:HG2	2.20	0.41
1:B:3112:LEU:HD11	1:B:3182:TYR:CE2	2.55	0.41
1:B:3124:GLY:O	1:B:3127:GLN:HG3	2.21	0.41
1:B:4796:MET:O	1:B:4800:LEU:HG	2.20	0.41
1:D:180:LEU:HD12	1:D:180:LEU:HA	1.89	0.41
1:D:407:THR:HG23	1:D:411:TYR:CE2	2.56	0.41
1:D:645:ARG:HG3	1:D:646:PRO:O	2.20	0.41
1:D:790:ARG:HA	1:D:1627:ALA:HA	2.02	0.41
1:D:1079:LYS:NZ	1:D:1108:GLU:HA	2.36	0.41
1:D:1153:ILE:HD12	1:D:1153:ILE:HA	1.82	0.41
1:D:1427:ILE:HD12	1:D:1427:ILE:HA	1.89	0.41
1:D:1607:ARG:H	1:D:1652:GLU:CD	2.23	0.41
1:D:1612:PHE:O	1:D:1614:GLN:NE2	2.44	0.41
1:D:1973:GLN:NE2	1:D:3642:TYR:CD2	2.89	0.41
1:D:2522:LEU:C	1:D:2527:LEU:HG	2.40	0.41
1:D:2765:LYS:HZ1	1:D:2856:ASN:N	2.19	0.41
1:D:4031:LEU:HD23	1:D:4031:LEU:HA	1.88	0.41
1:D:4649:LEU:O	1:D:4652:LEU:HD12	2.21	0.41
1:C:19:GLU:OE1	1:C:206:CYS:HB3	2.20	0.41
1:C:196:MET:SD	1:C:196:MET:N	2.88	0.41
1:C:349:GLN:HE22	1:C:355:LEU:C	2.23	0.41
1:C:645:ARG:CZ	1:C:826:ILE:HD13	2.50	0.41
1:C:894:GLY:HA3	1:C:903:LEU:HD23	2.03	0.41
1:C:953:THR:O	1:C:968:ALA:HB1	2.20	0.41
1:C:1023:PRO:HB3	1:C:1025:ARG:NH1	2.36	0.41
1:C:2686:LEU:HD22	1:C:2997:PHE:CD1	2.55	0.41
1:C:3596:VAL:O	1:C:3600:SER:OG	2.22	0.41
1:C:4003:LEU:HD21	1:C:4012:LEU:HD23	2.02	0.41
1:A:19:GLU:OE1	1:A:206:CYS:HB3	2.20	0.41
1:A:78:LEU:HA	1:A:81:MET:SD	2.61	0.41
1:A:645:ARG:HG3	1:A:646:PRO:O	2.20	0.41
1:A:3171:SER:O	1:A:3175:LEU:HG	2.20	0.41
1:A:3366:ARG:HH12	1:A:3370:GLY:HA3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3391:GLU:HG3	1:A:3395:ARG:CZ	2.50	0.41
1:A:4553:ASN:C	1:A:4557:ARG:HE	2.24	0.41
1:A:4664:LEU:HA	1:A:4664:LEU:HD12	1.77	0.41
1:A:4865:LYS:HB2	1:A:4875:LYS:NZ	2.35	0.41
2:F:73:LYS:HA	2:F:100:ASP:HA	2.03	0.41
1:B:180:LEU:O	1:B:198:THR:HB	2.21	0.41
1:B:881:LEU:HA	1:B:884:LEU:HD13	2.03	0.41
1:B:1294:PRO:HB3	1:B:1549:PHE:CZ	2.56	0.41
1:B:2155:LEU:HD22	1:B:2188:ASN:OD1	2.20	0.41
1:B:2233:CYS:O	1:B:2236:LEU:N	2.53	0.41
1:B:2479:LEU:HD22	1:B:2479:LEU:H	1.85	0.41
1:B:2963:LEU:HD23	1:B:2963:LEU:HA	1.84	0.41
1:B:3359:ILE:HG23	1:B:3434:LEU:HD21	2.01	0.41
1:B:3540:TYR:CZ	1:B:3601:ALA:HB2	2.56	0.41
1:B:3568:SER:HA	1:B:3571:TRP:NE1	2.36	0.41
1:B:3652:MET:HG2	1:B:3652:MET:H	1.60	0.41
1:B:4686:LEU:O	1:B:4690:GLU:N	2.54	0.41
1:D:16:THR:HA	1:D:69:LEU:CD1	2.50	0.41
1:D:41:GLY:O	1:D:45:ARG:NH2	2.47	0.41
1:D:78:LEU:HA	1:D:81:MET:SD	2.61	0.41
1:D:472:ARG:HA	1:D:472:ARG:HH11	1.85	0.41
1:D:891:TRP:CA	1:D:902:ARG:HE	2.32	0.41
1:D:919:ASN:OD1	1:D:922:LEU:HD22	2.21	0.41
1:D:1270:LEU:CD1	1:D:1564:PHE:HB2	2.51	0.41
1:D:1526:LEU:HD12	1:D:1527:MET:H	1.86	0.41
1:D:2012:PHE:HD1	1:D:3661:TRP:HZ2	1.68	0.41
1:D:2095:GLN:OE1	1:D:2095:GLN:N	2.51	0.41
1:D:2797:PHE:CE1	1:D:2802:LYS:HG2	2.56	0.41
1:D:2977:LEU:HA	1:D:2980:VAL:HG22	2.03	0.41
1:D:3023:LYS:HE3	1:D:3025:LEU:HD23	2.03	0.41
1:D:3183:VAL:O	1:D:3187:ARG:HG3	2.21	0.41
1:D:3758:MET:HE3	1:D:3759:GLU:HG3	2.02	0.41
1:D:3927:GLN:OE1	1:D:3988:ALA:HA	2.21	0.41
1:D:4247:ILE:O	1:D:4251:ILE:HG23	2.19	0.41
1:D:4835:LYS:O	1:D:4839:MET:SD	2.78	0.41
1:C:78:LEU:HA	1:C:81:MET:SD	2.61	0.41
1:C:308:HIS:O	1:C:308:HIS:CG	2.73	0.41
1:C:426:ARG:NH1	1:C:426:ARG:HB3	2.36	0.41
1:C:935:LEU:HD23	1:C:1056:PRO:HG3	2.03	0.41
1:C:996:TRP:O	1:C:996:TRP:HD1	2.04	0.41
1:C:2471:SER:HA	1:C:2524:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2694:GLU:HG2	1:C:2697:ARG:NE	2.33	0.41
1:C:2861:ASP:HB3	1:C:2928:LYS:HG3	2.02	0.41
1:C:3112:LEU:HD11	1:C:3182:TYR:CE2	2.55	0.41
1:C:3412:LEU:O	1:C:3416:VAL:HG22	2.20	0.41
1:C:3499:ARG:HE	1:C:3499:ARG:HB2	1.58	0.41
1:C:3566:SER:N	1:C:3569:LEU:HD12	2.35	0.41
1:C:3634:ALA:O	1:C:3637:ARG:NH2	2.53	0.41
1:C:3901:ASN:OD1	1:C:3904:ARG:NH2	2.47	0.41
1:C:4069:LYS:HD2	1:C:4069:LYS:HA	1.78	0.41
1:C:5026:ASP:OD1	1:C:5027:CYS:N	2.52	0.41
1:A:332:GLU:H	1:A:332:GLU:CD	2.24	0.41
1:A:953:THR:O	1:A:968:ALA:HB1	2.20	0.41
1:A:1141:ARG:NH2	1:D:3478:MET:CE	2.75	0.41
1:A:2199:ARG:HA	1:A:2204:HIS:HE1	1.86	0.41
1:A:3359:ILE:HG23	1:A:3434:LEU:HD21	2.01	0.41
1:A:3392:LEU:HB3	1:A:3395:ARG:HH21	1.85	0.41
1:A:3412:LEU:O	1:A:3416:VAL:HG22	2.20	0.41
1:A:3527:PRO:HA	1:A:3530:GLN:HG3	2.02	0.41
1:A:3568:SER:HA	1:A:3571:TRP:NE1	2.36	0.41
1:A:4023:MET:O	1:A:4027:LEU:HG	2.21	0.41
1:A:4241:THR:HG22	1:A:4245:MET:CE	2.50	0.41
1:A:4651:THR:HG1	1:A:4803:HIS:CE1	2.36	0.41
2:E:1:GLY:HA2	2:E:77:SER:HB3	2.02	0.41
2:E:42:ARG:HB3	2:E:44:LYS:HZ2	1.86	0.41
2:E:82:TYR:HB3	2:E:86:GLY:HA2	2.03	0.41
2:G:53:GLN:HE21	2:G:57:ARG:HB2	1.85	0.41
1:B:19:GLU:OE1	1:B:206:CYS:HB3	2.20	0.41
1:B:20:VAL:HG13	1:B:202:MET:SD	2.61	0.41
1:B:315:CYS:SG	1:B:349:GLN:HB3	2.60	0.41
1:B:426:ARG:NH1	1:B:426:ARG:HB3	2.36	0.41
1:B:664:PHE:HB3	1:B:811:CYS:SG	2.60	0.41
1:B:894:GLY:HA3	1:B:903:LEU:HD23	2.03	0.41
1:B:1023:PRO:HB3	1:B:1025:ARG:NH1	2.36	0.41
1:B:1131:ARG:NH1	1:B:1139:PHE:HB2	2.32	0.41
1:B:1585:LYS:HD3	1:B:1585:LYS:O	2.20	0.41
1:B:1640:HIS:NE2	1:B:1642:PRO:HA	2.36	0.41
1:B:2099:SER:HA	1:B:2124:LEU:HD12	2.03	0.41
1:B:2758:PHE:HB3	1:B:2809:ILE:HG21	2.02	0.41
1:B:3442:PHE:CE2	1:B:3605:HIS:HB3	2.55	0.41
1:B:3504:SER:N	1:B:3507:THR:OG1	2.28	0.41
1:D:39:ALA:O	1:D:64:ILE:HD11	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:241:GLN:HB2	1:D:243:ARG:HE	1.86	0.41
1:D:305:CYS:SG	1:D:306:LYS:N	2.93	0.41
1:D:717:ASP:HB2	1:D:722:TRP:HD1	1.84	0.41
1:D:1141:ARG:NH1	1:C:3478:MET:HE3	2.26	0.41
1:D:1568:LYS:CD	1:D:1574:PRO:HA	2.50	0.41
1:D:1568:LYS:HG2	1:D:1589:PRO:HG3	2.03	0.41
1:D:2014:ASP:OD1	1:D:2014:ASP:N	2.53	0.41
1:D:2441:HIS:CA	1:D:2444:GLN:HE21	2.30	0.41
1:D:2530:MET:CE	1:D:2531:ARG:HD2	2.51	0.41
1:D:2608:MET:O	1:D:2612[B]:ARG:HG3	2.21	0.41
1:D:3285:TRP:HA	1:D:3307:VAL:HB	2.02	0.41
1:D:4023:MET:O	1:D:4027:LEU:HG	2.21	0.41
1:D:4041:ALA:O	1:D:4045:VAL:HG12	2.21	0.41
1:D:4165:GLU:HA	1:D:4168:GLU:HG2	2.02	0.41
1:C:296:ASP:OD1	1:C:296:ASP:N	2.47	0.41
1:C:315:CYS:SG	1:C:349:GLN:HB3	2.60	0.41
1:C:683:ARG:HG2	1:C:707:VAL:O	2.20	0.41
1:C:919:ASN:OD1	1:C:922:LEU:HD22	2.21	0.41
1:C:1160:ILE:HG13	1:C:1182:ILE:HD13	2.01	0.41
1:C:1567:GLY:C	1:C:1568:LYS:HD2	2.41	0.41
1:C:1568:LYS:CD	1:C:1574:PRO:HA	2.50	0.41
1:C:1747:LEU:HD23	1:C:1747:LEU:HA	1.90	0.41
1:C:1973:GLN:NE2	1:C:3642:TYR:CD2	2.89	0.41
1:C:2006:ILE:O	1:C:2010:LEU:HD23	2.20	0.41
1:C:2313:LEU:HG	1:C:2318:TYR:HB3	2.03	0.41
1:C:2785:LEU:HD23	1:C:2785:LEU:HA	1.94	0.41
1:C:2952:GLU:HG3	1:C:2957:PHE:CD1	2.56	0.41
1:C:3227:ARG:NH2	1:C:3231:GLY:O	2.54	0.41
1:C:3366:ARG:HH12	1:C:3370:GLY:HA3	1.85	0.41
1:C:3392:LEU:HB3	1:C:3395:ARG:HH21	1.85	0.41
1:C:3403:ARG:HA	1:C:3458:PHE:CZ	2.55	0.41
1:C:3442:PHE:CD1	1:C:3514:LEU:HD11	2.56	0.41
1:C:4072:VAL:HG11	1:C:4125:PHE:HB2	2.03	0.41
1:C:4796:MET:O	1:C:4800:LEU:HG	2.20	0.41
1:C:4902:GLU:H	1:C:4902:GLU:CD	2.18	0.41
1:C:4958:CYS:HA	3:C:5301:ATP:N7	2.36	0.41
1:A:426:ARG:NH1	1:A:426:ARG:HB3	2.36	0.41
1:A:563:VAL:O	1:A:567:VAL:HG23	2.21	0.41
1:A:795:GLY:HA3	1:A:812:HIS:CE1	2.56	0.41
1:A:879:HIS:NE2	1:A:921:ASN:OD1	2.54	0.41
1:A:894:GLY:HA3	1:A:903:LEU:HD23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1449:TRP:CD1	1:A:1466:LEU:HD13	2.56	0.41
1:A:1496:TRP:CZ2	1:A:1498:GLY:HA3	2.56	0.41
1:A:1567:GLY:C	1:A:1568:LYS:HD2	2.41	0.41
1:A:1607:ARG:H	1:A:1652:GLU:CD	2.24	0.41
1:A:1716:ILE:CG2	1:A:1847:THR:HG21	2.50	0.41
1:A:2014:ASP:OD1	1:A:2014:ASP:N	2.53	0.41
1:A:2181:SER:O	1:A:2185:ILE:HG13	2.21	0.41
1:A:2797:PHE:CE1	1:A:2802:LYS:HG2	2.56	0.41
1:A:3514:LEU:HA	1:A:3517:MET:HG2	2.02	0.41
1:A:3540:TYR:CZ	1:A:3601:ALA:HB2	2.56	0.41
1:A:3959:LYS:HG2	1:A:4022:ASP:OD2	2.21	0.41
1:A:3969:ILE:CD1	1:A:3977:GLN:HG2	2.49	0.41
1:A:4183:ILE:HD12	1:A:5021:PHE:O	2.21	0.41
1:A:4579:PHE:O	1:A:4632:LEU:HG	2.20	0.41
1:A:4718:LYS:HD3	1:A:4718:LYS:N	2.35	0.41
1:A:4843:LEU:HD22	1:D:4823:LEU:HD22	2.03	0.41
1:A:4879:MET:HB3	1:A:4880:MET:CE	2.51	0.41
2:E:24:VAL:HG13	2:E:48:PHE:HE1	1.85	0.41
2:E:48:PHE:CE1	2:E:59:TRP:HH2	2.38	0.41
2:E:65:GLN:H	2:E:65:GLN:CD	2.24	0.41
2:G:27:THR:HA	2:G:38:SER:HA	2.03	0.41
2:G:56:ILE:HD12	1:C:1783:VAL:O	2.21	0.41
2:G:57:ARG:NH2	2:G:80:TYR:CD1	2.89	0.41
1:B:57:ASN:N	1:B:57:ASN:OD1	2.54	0.41
1:B:78:LEU:HA	1:B:81:MET:SD	2.61	0.41
1:B:418:LEU:HA	1:B:421:PHE:CZ	2.56	0.41
1:B:603:LEU:HG	1:B:1669:LEU:CD1	2.49	0.41
1:B:993:HIS:ND1	1:B:1024:TYR:HD2	2.19	0.41
1:B:996:TRP:HD1	1:B:996:TRP:O	2.04	0.41
1:B:1007:TYR:N	1:B:1021:LEU:HD22	2.36	0.41
1:B:1228:ILE:HG22	1:B:1827:ARG:NH1	2.34	0.41
1:B:1449:TRP:CD1	1:B:1466:LEU:HD13	2.56	0.41
1:B:2313:LEU:HG	1:B:2318:TYR:HB3	2.03	0.41
1:B:2420:HIS:O	1:B:2424:SER:OG	2.29	0.41
1:B:2779:GLU:OE1	1:B:2779:GLU:N	2.51	0.41
1:B:3285:TRP:HA	1:B:3307:VAL:HB	2.02	0.41
1:B:3312:LEU:O	1:B:3345:ILE:HD11	2.21	0.41
1:B:3314:SER:O	1:B:3318:ASN:ND2	2.54	0.41
1:B:3412:LEU:O	1:B:3416:VAL:HG22	2.20	0.41
1:B:3575:LEU:HD21	1:C:1208:VAL:CG1	2.48	0.41
1:B:3721:LEU:HD12	1:B:3721:LEU:HA	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3927:GLN:OE1	1:B:3988:ALA:HA	2.21	0.41
1:B:3959:LYS:HG2	1:B:4022:ASP:OD2	2.21	0.41
1:B:3985:LEU:O	1:B:3989:VAL:HG23	2.20	0.41
1:B:4579:PHE:O	1:B:4632:LEU:HG	2.20	0.41
1:B:4799:SER:HA	1:B:4812:HIS:HE1	1.86	0.41
1:D:110:ARG:HA	1:D:117:TYR:HA	2.03	0.41
1:D:207:SER:OG	1:D:208:CYS:N	2.53	0.41
1:D:846:LEU:HD11	1:D:1026:LEU:HD13	2.03	0.41
1:D:879:HIS:NE2	1:D:921:ASN:OD1	2.54	0.41
1:D:908:VAL:HG13	1:D:909:ASN:N	2.36	0.41
1:D:935:LEU:HD23	1:D:1056:PRO:HG3	2.03	0.41
1:D:996:TRP:HD1	1:D:996:TRP:O	2.04	0.41
1:D:1007:TYR:N	1:D:1021:LEU:HD22	2.36	0.41
1:D:1023:PRO:HB3	1:D:1025:ARG:NH1	2.36	0.41
1:D:1496:TRP:CZ2	1:D:1498:GLY:HA3	2.56	0.41
1:D:1552:VAL:HB	1:D:1564:PHE:CZ	2.56	0.41
1:D:1694:LEU:O	1:D:1698:LEU:HG	2.20	0.41
1:D:1954:ARG:NH1	1:D:2042:CYS:HA	2.36	0.41
1:D:2142:TYR:CE2	1:D:2197:LEU:HB2	2.56	0.41
1:D:2178:MET:HE2	1:D:2179:ILE:N	2.36	0.41
1:D:2199:ARG:HA	1:D:2204:HIS:HE1	1.86	0.41
1:D:2325:PRO:HG3	1:D:2422:ILE:HG22	2.02	0.41
1:D:2471:SER:HA	1:D:2524:VAL:O	2.21	0.41
1:D:2785:LEU:HD23	1:D:2785:LEU:HA	1.94	0.41
1:D:2915:GLU:HG3	1:D:2915:GLU:H	1.71	0.41
1:D:3106:MET:HE1	1:D:3132:THR:HB	2.03	0.41
1:D:3611:HIS:CE1	1:D:3613:TYR:HH	2.39	0.41
1:D:4090:LYS:H	1:D:4090:LYS:HG2	1.68	0.41
1:D:4181:ILE:HD12	1:D:4181:ILE:HA	1.80	0.41
1:D:4974:GLY:O	1:D:4977:THR:OG1	2.32	0.41
1:C:34:LYS:H	1:C:53:SER:HG	1.65	0.41
1:C:180:LEU:HD12	1:C:180:LEU:HA	1.89	0.41
1:C:415:ILE:HD11	1:C:490:CYS:SG	2.61	0.41
1:C:645:ARG:HG3	1:C:646:PRO:O	2.20	0.41
1:C:879:HIS:NE2	1:C:921:ASN:OD1	2.54	0.41
1:C:908:VAL:HG13	1:C:909:ASN:N	2.36	0.41
1:C:937:CYS:HB3	1:C:1056:PRO:HD3	2.03	0.41
1:C:993:HIS:ND1	1:C:1024:TYR:HD2	2.19	0.41
1:C:1496:TRP:CZ2	1:C:1498:GLY:HA3	2.56	0.41
1:C:2142:TYR:CZ	1:C:2197:LEU:HB2	2.56	0.41
1:C:2142:TYR:CE2	1:C:2197:LEU:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2199:ARG:HA	1:C:2204:HIS:HE1	1.85	0.41
1:C:2326:CYS:O	1:C:2330:ARG:HG3	2.21	0.41
1:C:2332:LEU:HD23	1:C:2332:LEU:HA	1.95	0.41
1:C:2538:THR:O	1:C:2542:SER:N	2.40	0.41
1:C:2904:LEU:O	1:C:2906:VAL:HG22	2.21	0.41
1:C:3056:LEU:HD12	1:C:3056:LEU:H	1.86	0.41
1:C:3410:PRO:O	1:C:3414:ARG:NH1	2.54	0.41
1:C:3540:TYR:CZ	1:C:3601:ALA:HB2	2.56	0.41
1:C:3647:HIS:CG	1:C:3648:ARG:N	2.89	0.41
1:C:3844:LEU:HD23	1:C:3844:LEU:HA	1.84	0.41
1:C:3927:GLN:OE1	1:C:3988:ALA:HA	2.21	0.41
1:C:4023:MET:O	1:C:4027:LEU:HG	2.21	0.41
1:C:4251:ILE:HD13	1:C:4664:LEU:HD11	2.03	0.41
1:A:110:ARG:HA	1:A:117:TYR:HA	2.03	0.41
1:A:111:HIS:CD2	1:A:114:SER:H	2.39	0.41
1:A:180:LEU:O	1:A:198:THR:HB	2.21	0.41
1:A:415:ILE:HD11	1:A:490:CYS:SG	2.61	0.41
1:A:897:ARG:HG3	1:A:904:HIS:CE1	2.55	0.41
1:A:1259:ARG:HH12	1:A:1593:PRO:HA	1.85	0.41
1:A:1585:LYS:HD3	1:A:1585:LYS:O	2.20	0.41
1:A:2005:GLN:HE22	1:A:3638:MET:CE	2.34	0.41
1:A:2010:LEU:HD11	1:A:3653:PHE:CE1	2.56	0.41
1:A:2198:MET:HA	1:A:2203:MET:HE1	2.02	0.41
1:A:2294:ASP:OD1	1:A:2297:LYS:HE3	2.21	0.41
1:A:2919:ASP:OD1	1:A:2922:LYS:NZ	2.50	0.41
1:A:3566:SER:N	1:A:3569:LEU:HD12	2.35	0.41
1:A:4003:LEU:HD21	1:A:4012:LEU:HD23	2.02	0.41
2:G:77:SER:O	2:G:81:ALA:N	2.50	0.41
1:B:349:GLN:HE22	1:B:355:LEU:C	2.23	0.41
1:B:935:LEU:HD23	1:B:1056:PRO:HG3	2.03	0.41
1:B:1973:GLN:NE2	1:B:3642:TYR:CD2	2.89	0.41
1:B:2010:LEU:HD11	1:B:3653:PHE:HE1	1.86	0.41
1:B:2142:TYR:CZ	1:B:2197:LEU:HB2	2.56	0.41
1:B:2765:LYS:HZ1	1:B:2856:ASN:N	2.18	0.41
1:B:3158:LEU:H	1:B:3158:LEU:HD23	1.85	0.41
1:B:3442:PHE:CD1	1:B:3514:LEU:HD11	2.56	0.41
1:B:3647:HIS:CG	1:B:3648:ARG:N	2.89	0.41
1:B:3805:LEU:HB3	1:B:3890:LEU:HB3	2.03	0.41
1:B:4060:LYS:HA	1:B:4060:LYS:HD2	1.82	0.41
1:B:4159:ARG:HB3	1:B:4163:PHE:CZ	2.56	0.41
1:B:4241:THR:HG22	1:B:4245:MET:CE	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4879:MET:HB3	1:B:4880:MET:CE	2.51	0.41
1:D:484:LEU:O	1:D:488:LEU:HG	2.20	0.41
1:D:1082:THR:HG21	1:D:1107:PRO:HG3	2.02	0.41
1:D:2230:THR:OG1	1:D:2268[A]:GLN:NE2	2.48	0.41
1:D:2268[B]:GLN:H	1:D:2268[B]:GLN:HG3	1.55	0.41
1:D:2294:ASP:OD1	1:D:2297:LYS:HE3	2.21	0.41
1:D:3815:LYS:HB2	1:D:3816:MET:CE	2.50	0.41
1:D:4060:LYS:HA	1:D:4060:LYS:HD2	1.83	0.41
1:D:4072:VAL:HG11	1:D:4125:PHE:HB2	2.03	0.41
1:D:4686:LEU:O	1:D:4690:GLU:N	2.54	0.41
1:D:4708:THR:HA	1:D:4709:PRO:HD3	1.96	0.41
1:D:4879:MET:HB3	1:D:4880:MET:CE	2.51	0.41
1:C:241:GLN:HB2	1:C:243:ARG:HE	1.86	0.41
1:C:1153:ILE:CD1	1:C:1160:ILE:HG12	2.50	0.41
1:C:1511:HIS:ND1	1:C:1511:HIS:N	2.65	0.41
1:C:2336:ARG:HD2	1:C:2337:PHE:CD1	2.56	0.41
1:C:2530:MET:CE	1:C:2531:ARG:HD2	2.51	0.41
1:C:2672:LEU:HD23	1:C:2672:LEU:HA	1.87	0.41
1:C:3158:LEU:H	1:C:3158:LEU:HD23	1.85	0.41
1:C:3269:VAL:HA	1:C:3273:THR:OG1	2.20	0.41
1:C:4553:ASN:C	1:C:4557:ARG:HE	2.24	0.41
1:C:4865:LYS:HB2	1:C:4875:LYS:NZ	2.35	0.41
1:A:20:VAL:HG13	1:A:202:MET:SD	2.61	0.40
1:A:21:VAL:HG13	1:A:205:ILE:HG13	2.03	0.40
1:A:125:ARG:HH11	1:A:127:MET:HE1	1.86	0.40
1:A:1619:ARG:HB3	1:A:1626:TRP:CE2	2.56	0.40
1:A:2012:PHE:HD1	1:A:3661:TRP:HZ2	1.68	0.40
1:A:2694:GLU:HG2	1:A:2697:ARG:NE	2.33	0.40
1:A:2861:ASP:HB3	1:A:2928:LYS:HG3	2.02	0.40
1:A:2888:ARG:NH2	1:A:2891:LYS:HD2	2.36	0.40
1:A:2952:GLU:HG3	1:A:2957:PHE:CD1	2.56	0.40
1:A:2977:LEU:HA	1:A:2980:VAL:HG22	2.03	0.40
1:A:3562:LYS:HD3	1:A:3562:LYS:HA	1.60	0.40
1:A:3670:GLU:HA	1:A:3673:MET:HB2	2.02	0.40
1:A:3985:LEU:O	1:A:3989:VAL:HG23	2.20	0.40
1:A:4580:TYR:OH	1:A:4630:TYR:O	2.29	0.40
1:A:4587:PRO:HD3	1:A:4631:PHE:HD1	1.86	0.40
1:A:4827:LEU:HD12	1:A:4828:SER:N	2.36	0.40
2:G:28:GLY:N	2:G:37:ASP:O	2.34	0.40
2:F:17:LYS:CD	2:F:20:GLN:HB2	2.51	0.40
1:B:645:ARG:HG3	1:B:646:PRO:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:681:HIS:H	1:B:784:SER:HG	1.62	0.40
1:B:908:VAL:HG13	1:B:909:ASN:N	2.36	0.40
1:B:919:ASN:OD1	1:B:922:LEU:HD22	2.21	0.40
1:B:1526:LEU:HD12	1:B:1527:MET:H	1.85	0.40
1:B:2336:ARG:HD2	1:B:2337:PHE:CD1	2.56	0.40
1:B:2999:ALA:O	1:B:3003:LEU:HB2	2.20	0.40
1:B:3102:ASP:HA	1:B:3105:LYS:HD3	2.03	0.40
1:B:3670:GLU:HA	1:B:3673:MET:HB2	2.03	0.40
1:B:3966:THR:HG21	1:B:4025:VAL:HG12	2.04	0.40
1:B:4072:VAL:HG11	1:B:4125:PHE:HB2	2.03	0.40
1:D:247:TYR:HE1	1:D:376:ALA:HA	1.86	0.40
1:D:275:ARG:HH21	1:D:328:LYS:HB2	1.86	0.40
1:D:308:HIS:HE2	1:D:310:LYS:HB3	1.85	0.40
1:D:700:GLU:O	1:D:705:ASN:ND2	2.30	0.40
1:D:993:HIS:ND1	1:D:1024:TYR:HD2	2.19	0.40
1:D:1954:ARG:HH12	1:D:2042:CYS:HA	1.86	0.40
1:D:2010:LEU:HD11	1:D:3653:PHE:CE1	2.56	0.40
1:D:2332:LEU:HD23	1:D:2332:LEU:HA	1.95	0.40
1:D:2889:LYS:HA	1:D:2892:GLN:HG2	2.02	0.40
1:D:3410:PRO:O	1:D:3414:ARG:NH1	2.54	0.40
1:D:3527:PRO:HA	1:D:3530:GLN:HG3	2.02	0.40
1:D:3540:TYR:CZ	1:D:3601:ALA:HB2	2.56	0.40
1:D:3670:GLU:HA	1:D:3673:MET:HB2	2.03	0.40
1:D:3805:LEU:HB3	1:D:3890:LEU:HB3	2.03	0.40
1:D:4003:LEU:HD21	1:D:4012:LEU:HD23	2.02	0.40
1:D:4799:SER:HA	1:D:4812:HIS:HE1	1.86	0.40
1:D:4958:CYS:CB	1:D:4961:CYS:HB2	2.50	0.40
1:C:110:ARG:HA	1:C:117:TYR:HA	2.03	0.40
1:C:207:SER:OG	1:C:208:CYS:N	2.53	0.40
1:C:267:ILE:O	1:C:270:SER:OG	2.24	0.40
1:C:281:ARG:NH1	1:C:309:THR:OG1	2.54	0.40
1:C:603:LEU:HD11	1:C:621:ILE:HG12	2.02	0.40
1:C:891:TRP:CA	1:C:902:ARG:HE	2.32	0.40
1:C:1270:LEU:CD1	1:C:1564:PHE:HB2	2.51	0.40
1:C:2181:SER:O	1:C:2185:ILE:HG13	2.21	0.40
1:C:2294:ASP:OD1	1:C:2297:LYS:HE3	2.21	0.40
1:C:2765:LYS:HZ1	1:C:2856:ASN:N	2.19	0.40
1:C:2977:LEU:HA	1:C:2980:VAL:HG22	2.03	0.40
1:C:3312:LEU:O	1:C:3345:ILE:HD11	2.21	0.40
1:C:3815:LYS:HB2	1:C:3816:MET:CE	2.50	0.40
1:C:4059:LEU:HD13	1:C:4167:ALA:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4799:SER:HA	1:C:4812:HIS:HE1	1.86	0.40
1:C:4879:MET:HB3	1:C:4880:MET:CE	2.51	0.40
1:C:4999:ASP:OD1	1:C:5001:THR:HG23	2.22	0.40
1:A:125:ARG:HD2	1:A:125:ARG:O	2.20	0.40
1:A:489:ASN:HB3	1:A:493:ARG:NH2	2.37	0.40
1:A:717:ASP:HB2	1:A:722:TRP:HD1	1.84	0.40
1:A:846:LEU:HD11	1:A:1026:LEU:HD13	2.03	0.40
1:A:887:ILE:HG12	1:A:959:TYR:HB3	2.04	0.40
1:A:919:ASN:OD1	1:A:922:LEU:HD22	2.21	0.40
1:A:996:TRP:O	1:A:996:TRP:HD1	2.04	0.40
1:A:1141:ARG:NH1	1:D:3478:MET:HE3	2.22	0.40
1:A:1220:GLN:HG3	1:D:3522:LEU:HB3	2.01	0.40
1:A:1568:LYS:HG2	1:A:1589:PRO:HG3	2.03	0.40
1:A:2178:MET:HE2	1:A:2179:ILE:N	2.35	0.40
1:A:2368:LEU:N	1:A:2374:SER:O	2.34	0.40
1:A:2530:MET:CE	1:A:2531:ARG:HD2	2.51	0.40
1:A:2905:LEU:HD23	1:A:2905:LEU:HA	1.82	0.40
1:A:3498:ARG:HB3	1:A:3499:ARG:H	1.51	0.40
1:A:3647:HIS:CG	1:A:3648:ARG:N	2.89	0.40
1:A:4147:LEU:HD13	1:A:4164:LEU:HD23	2.02	0.40
2:G:42:ARG:HH21	1:C:1691:GLN:HB3	1.86	0.40
2:F:77:SER:O	2:F:81:ALA:N	2.54	0.40
1:B:378:LEU:HD23	1:B:378:LEU:HA	1.86	0.40
1:B:758:ARG:HG2	1:B:763:PRO:HA	2.03	0.40
1:B:846:LEU:HD11	1:B:1026:LEU:HD13	2.03	0.40
1:B:925:SER:O	1:B:928:THR:OG1	2.30	0.40
1:B:1207:ASP:CG	1:B:1209:SER:HG	2.22	0.40
1:B:1694:LEU:O	1:B:1698:LEU:HG	2.20	0.40
1:B:2006:ILE:O	1:B:2010:LEU:HD23	2.20	0.40
1:B:2326:CYS:O	1:B:2330:ARG:HG3	2.21	0.40
1:B:2686:LEU:HD22	1:B:2997:PHE:CD1	2.55	0.40
1:B:3062:PRO:HA	1:B:3065:VAL:HG22	2.04	0.40
1:B:3815:LYS:HB2	1:B:3816:MET:CE	2.50	0.40
1:B:4028:LEU:HG	1:B:4146:LEU:HD13	2.03	0.40
1:B:4999:ASP:OD1	1:B:5001:THR:HG23	2.22	0.40
1:D:125:ARG:O	1:D:125:ARG:HD2	2.20	0.40
1:D:603:LEU:HD11	1:D:621:ILE:HG12	2.02	0.40
1:D:795:GLY:HA3	1:D:812:HIS:CE1	2.56	0.40
1:D:937:CYS:HB3	1:D:1056:PRO:HD3	2.03	0.40
1:D:1131:ARG:HD2	1:D:1178:ALA:HB1	2.03	0.40
1:D:1252:HIS:CE1	1:D:1255:TYR:H	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1433:TYR:CD2	1:D:1573:MET:HB2	2.57	0.40
1:D:1449:TRP:CD1	1:D:1466:LEU:HD13	2.56	0.40
1:D:1952:GLN:HG3	1:D:1956:GLU:OE1	2.21	0.40
1:D:2005:GLN:HE22	1:D:3638:MET:CE	2.34	0.40
1:D:2131:LEU:HD11	1:D:3662:ILE:HG13	2.04	0.40
1:D:3560:GLN:OE1	1:D:3560:GLN:N	2.30	0.40
1:D:4183:ILE:HD12	1:D:5021:PHE:O	2.21	0.40
1:D:4570:ALA:HA	1:D:4573:ILE:HD12	2.04	0.40
1:D:4880:MET:CE	1:C:4579:PHE:HA	2.51	0.40
1:C:111:HIS:CD2	1:C:114:SER:H	2.39	0.40
1:C:664:PHE:HB3	1:C:811:CYS:SG	2.60	0.40
1:C:1007:TYR:N	1:C:1021:LEU:HD22	2.36	0.40
1:C:1229:ASN:ND2	1:C:1827:ARG:HG3	2.35	0.40
1:C:1703:LEU:HG	1:C:1704:PRO:HD2	2.03	0.40
1:C:2644:LEU:HD23	1:C:2647:HIS:CE1	2.56	0.40
1:C:3023:LYS:HE3	1:C:3025:LEU:HD23	2.03	0.40
1:C:3358:PHE:CE1	1:C:3362:ILE:HD11	2.57	0.40
1:C:3750:GLU:H	1:C:3750:GLU:CD	2.25	0.40
1:A:281:ARG:NH1	1:A:309:THR:OG1	2.54	0.40
1:A:472:ARG:HA	1:A:472:ARG:HH11	1.85	0.40
1:A:534:ARG:NE	1:A:534:ARG:HA	2.37	0.40
1:A:881:LEU:HA	1:A:884:LEU:HD13	2.03	0.40
1:A:1007:TYR:N	1:A:1021:LEU:HD22	2.36	0.40
1:A:1082:THR:HG21	1:A:1107:PRO:HG3	2.02	0.40
1:A:1153:ILE:HA	1:A:1153:ILE:HD12	1.82	0.40
1:A:1694:LEU:O	1:A:1698:LEU:HG	2.20	0.40
1:A:1952:GLN:HG3	1:A:1956:GLU:OE1	2.21	0.40
1:A:1954:ARG:HH12	1:A:2042:CYS:HA	1.86	0.40
1:A:2110:TYR:HB2	1:A:3695:PRO:HD2	2.04	0.40
1:A:2527:LEU:O	1:A:2531:ARG:HG2	2.20	0.40
1:A:2904:LEU:O	1:A:2906:VAL:HG22	2.21	0.40
1:A:3227:ARG:NH2	1:A:3231:GLY:O	2.54	0.40
1:A:3314:SER:O	1:A:3318:ASN:ND2	2.54	0.40
1:A:3563:VAL:HG21	1:A:3573:MET:HG2	2.03	0.40
1:A:4095:LYS:HE2	1:A:4095:LYS:HB2	1.91	0.40
1:A:4681:LEU:HA	1:A:4685:GLY:HA2	2.03	0.40
2:H:27:THR:HA	2:H:38:SER:HA	2.02	0.40
1:B:241:GLN:HB2	1:B:243:ARG:HE	1.86	0.40
1:B:407:THR:HG23	1:B:411:TYR:CE2	2.56	0.40
1:B:937:CYS:HB3	1:B:1056:PRO:HD3	2.03	0.40
1:B:1433:TYR:CD2	1:B:1573:MET:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1619:ARG:HB3	1:B:1626:TRP:CE2	2.56	0.40
1:B:2325:PRO:HG3	1:B:2422:ILE:HG22	2.02	0.40
1:B:2423:MET:HE3	1:B:2494:PHE:HA	2.02	0.40
1:B:2608:MET:O	1:B:2612[B]:ARG:HG3	2.21	0.40
1:B:2861:ASP:HB3	1:B:2928:LYS:HG3	2.02	0.40
1:B:2904:LEU:O	1:B:2906:VAL:HG22	2.20	0.40
1:B:2992:GLU:HA	1:B:2995:ILE:HB	2.02	0.40
1:B:3366:ARG:HH12	1:B:3370:GLY:HA3	1.85	0.40
1:B:3535:LEU:O	1:B:3538:THR:OG1	2.30	0.40
1:B:3598:GLU:OE1	1:B:3598:GLU:N	2.55	0.40
1:B:3719:ASP:OD2	1:B:3722:TYR:N	2.49	0.40
1:B:4587:PRO:HD3	1:B:4631:PHE:HD1	1.86	0.40
1:B:4649:LEU:O	1:B:4652:LEU:HD12	2.21	0.40
1:B:4884:LEU:HA	1:B:4887:MET:SD	2.62	0.40
1:B:4958:CYS:HA	3:B:5301:ATP:N7	2.36	0.40
1:D:57:ASN:OD1	1:D:57:ASN:N	2.54	0.40
1:D:234:SER:OG	1:D:238:SER:OG	2.37	0.40
1:D:289:ARG:HB3	1:D:302:VAL:O	2.22	0.40
1:D:534:ARG:HA	1:D:534:ARG:NE	2.37	0.40
1:D:816:LEU:HD11	1:D:851:PHE:CZ	2.57	0.40
1:D:952:LYS:NZ	1:D:968:ALA:O	2.35	0.40
1:D:976:ARG:HA	1:D:976:ARG:HD3	1.66	0.40
1:D:2326:CYS:O	1:D:2330:ARG:HG3	2.21	0.40
1:D:2336:ARG:HD2	1:D:2337:PHE:CD1	2.56	0.40
1:D:2785:LEU:O	1:D:2786:LYS:HB3	2.21	0.40
1:D:2888:ARG:NH2	1:D:2891:LYS:HD2	2.36	0.40
1:D:3062:PRO:HA	1:D:3065:VAL:HG22	2.04	0.40
1:D:3358:PHE:CE1	1:D:3362:ILE:HD11	2.57	0.40
1:D:3442:PHE:CD1	1:D:3514:LEU:HD11	2.56	0.40
1:D:4553:ASN:C	1:D:4557:ARG:HE	2.24	0.40
1:C:16:THR:HA	1:C:69:LEU:CD1	2.50	0.40
1:C:180:LEU:O	1:C:198:THR:HB	2.21	0.40
1:C:275:ARG:O	1:C:278:GLN:HB2	2.22	0.40
1:C:305:CYS:SG	1:C:306:LYS:N	2.93	0.40
1:C:887:ILE:HG12	1:C:959:TYR:HB3	2.04	0.40
1:C:893:TYR:HB3	1:C:962:SER:HB3	2.04	0.40
1:C:1079:LYS:NZ	1:C:1108:GLU:HA	2.36	0.40
1:C:1929:MET:O	1:C:1930:LYS:HB3	2.22	0.40
1:C:2005:GLN:HE22	1:C:3638:MET:CE	2.34	0.40
1:C:2012:PHE:CD1	1:C:3661:TRP:H22	2.40	0.40
1:C:2130:GLY:HA2	1:C:2133:GLU:CD	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3552:PHE:HA	1:C:3555:ASN:ND2	2.37	0.40
1:C:3670:GLU:HA	1:C:3673:MET:HB2	2.03	0.40
1:C:3721:LEU:HD12	1:C:3721:LEU:HA	1.93	0.40
1:C:4570:ALA:HA	1:C:4573:ILE:HD12	2.04	0.40
1:C:4580:TYR:CE1	1:C:4630:TYR:HB3	2.56	0.40
1:C:4686:LEU:O	1:C:4690:GLU:N	2.54	0.40
1:A:111:HIS:CE1	1:A:113:HIS:HB3	2.57	0.40
1:A:132:ALA:HA	1:A:193:ALA:O	2.22	0.40
1:A:349:GLN:HB2	1:A:356:TRP:CZ3	2.57	0.40
1:A:1131:ARG:C	1:A:1132:TRP:HD1	2.25	0.40
1:A:1526:LEU:HD12	1:A:1527:MET:H	1.85	0.40
1:A:1588:ALA:HA	1:A:1589:PRO:HD3	1.95	0.40
1:A:1684:ALA:O	1:A:1687:SER:OG	2.28	0.40
1:A:1753:LYS:HB3	1:A:1758:ARG:HG3	2.04	0.40
1:A:2130:GLY:HA2	1:A:2133:GLU:CD	2.42	0.40
1:A:2131:LEU:HD11	1:A:3662:ILE:HG13	2.04	0.40
1:A:2142:TYR:CZ	1:A:2197:LEU:HB2	2.56	0.40
1:A:2170:MET:SD	1:A:2228:MET:HE3	2.61	0.40
1:A:2268[A]:GLN:H	1:A:2268[A]:GLN:HG3	1.51	0.40
1:A:2471:SER:HA	1:A:2524:VAL:O	2.21	0.40
1:A:2644:LEU:HD23	1:A:2647:HIS:CE1	2.56	0.40
1:A:2819:TRP:C	1:A:2820:GLU:HG3	2.42	0.40
1:A:2954:ARG:NH1	1:A:3030:HIS:O	2.55	0.40
1:A:3102:ASP:HA	1:A:3105:LYS:HD3	2.03	0.40
1:A:3283:ARG:HA	1:A:3286:GLU:OE1	2.21	0.40
1:A:4072:VAL:HG11	1:A:4125:PHE:HB2	2.03	0.40
1:B:111:HIS:CD2	1:B:114:SER:H	2.39	0.40
1:B:111:HIS:CE1	1:B:113:HIS:HB3	2.57	0.40
1:B:124:SER:HB2	1:B:133:PHE:CE1	2.57	0.40
1:B:281:ARG:NH1	1:B:309:THR:OG1	2.54	0.40
1:B:534:ARG:NE	1:B:534:ARG:HA	2.37	0.40
1:B:795:GLY:HA3	1:B:812:HIS:CE1	2.56	0.40
1:B:879:HIS:NE2	1:B:921:ASN:OD1	2.54	0.40
1:B:895:PRO:HD2	1:B:903:LEU:HD23	2.03	0.40
1:B:996:TRP:HE1	1:B:1000:ARG:HH11	1.68	0.40
1:B:1468:LYS:HE3	1:B:1468:LYS:HB2	1.89	0.40
1:B:1753:LYS:HB3	1:B:1758:ARG:HG3	2.04	0.40
1:B:1954:ARG:HH12	1:B:2042:CYS:HA	1.86	0.40
1:B:2423:MET:HE1	1:B:2494:PHE:HA	2.01	0.40
1:B:2819:TRP:C	1:B:2820:GLU:HG3	2.42	0.40
1:B:3654:LEU:HD23	1:B:3654:LEU:HA	1.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4147:LEU:HD13	1:B:4164:LEU:HD23	2.02	0.40
1:B:4827:LEU:HD12	1:B:4828:SER:N	2.36	0.40
1:D:180:LEU:O	1:D:198:THR:HB	2.21	0.40
1:D:349:GLN:HB2	1:D:356:TRP:CZ3	2.57	0.40
1:D:426:ARG:NH1	1:D:426:ARG:HB3	2.36	0.40
1:D:457:GLU:OE1	1:D:457:GLU:N	2.54	0.40
1:D:575:LEU:HD12	1:D:575:LEU:HA	1.76	0.40
1:D:1679:ASN:ND2	1:D:1797:ARG:O	2.38	0.40
1:D:1753:LYS:HB3	1:D:1758:ARG:HG3	2.04	0.40
1:D:2130:GLY:HA2	1:D:2133:GLU:CD	2.42	0.40
1:D:2644:LEU:HD23	1:D:2647:HIS:CE1	2.56	0.40
1:D:3227:ARG:NH2	1:D:3231:GLY:O	2.54	0.40
1:D:3598:GLU:OE1	1:D:3598:GLU:N	2.55	0.40
1:D:3934:TYR:O	1:D:3938:SER:HB3	2.22	0.40
1:D:4249:ALA:O	1:D:4252:SER:OG	2.29	0.40
1:D:4681:LEU:HA	1:D:4685:GLY:HA2	2.03	0.40
1:D:4999:ASP:OD1	1:D:5001:THR:HG23	2.21	0.40
1:C:132:ALA:HA	1:C:193:ALA:O	2.22	0.40
1:C:247:TYR:HE1	1:C:376:ALA:HA	1.86	0.40
1:C:275:ARG:HH21	1:C:328:LYS:HB2	1.86	0.40
1:C:349:GLN:HB2	1:C:356:TRP:CZ3	2.57	0.40
1:C:477:LEU:O	1:C:480:GLU:HG3	2.20	0.40
1:C:534:ARG:HA	1:C:534:ARG:NE	2.37	0.40
1:C:699:GLY:N	1:C:1647:CYS:SG	2.84	0.40
1:C:846:LEU:HD11	1:C:1026:LEU:HD13	2.02	0.40
1:C:1131:ARG:HD2	1:C:1178:ALA:HB1	2.03	0.40
1:C:1552:VAL:HB	1:C:1564:PHE:CZ	2.56	0.40
1:C:1640:HIS:NE2	1:C:1642:PRO:HA	2.36	0.40
1:C:1719:HIS:CE1	1:C:1802:ILE:HD11	2.57	0.40
1:C:1952:GLN:HG3	1:C:1956:GLU:OE1	2.21	0.40
1:C:2099:SER:HA	1:C:2124:LEU:HD12	2.03	0.40
1:C:2110:TYR:HB2	1:C:3695:PRO:HD2	2.03	0.40
1:C:3937:TYR:CE2	1:C:3943:ILE:HG23	2.57	0.40
1:C:3966:THR:HG21	1:C:4025:VAL:HG12	2.03	0.40
1:A:103:TYR:HB2	1:A:161:GLU:H	1.87	0.40
1:A:308:HIS:CD2	1:A:311:ALA:H	2.38	0.40
1:A:418:LEU:HA	1:A:421:PHE:CZ	2.56	0.40
1:A:577:ILE:H	1:A:577:ILE:HG12	1.75	0.40
1:A:583:ILE:HG13	1:A:583:ILE:H	1.65	0.40
1:A:1045:THR:HG22	1:A:1049:TYR:CZ	2.57	0.40
1:A:1105:ALA:N	1:A:1189:LEU:O	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1270:LEU:CD1	1:A:1564:PHE:HB2	2.51	0.40
1:A:1848:LEU:HD23	1:A:1848:LEU:HA	1.88	0.40
1:A:2010:LEU:HD11	1:A:3653:PHE:HE1	1.86	0.40
1:A:2155:LEU:HD22	1:A:2188:ASN:OD1	2.20	0.40
1:A:2478:THR:O	1:A:2486:VAL:N	2.41	0.40
1:A:2481:LYS:HZ2	1:A:2486:VAL:HG22	1.87	0.40
1:A:3056:LEU:H	1:A:3056:LEU:HD12	1.86	0.40
1:A:3144:PHE:HB2	1:A:3196:ARG:HB3	2.03	0.40
1:A:3702:VAL:HG11	1:A:3773:ARG:HB3	2.04	0.40
1:A:3805:LEU:HB3	1:A:3890:LEU:HB3	2.03	0.40
1:A:3812:VAL:HG13	1:A:3816:MET:HE3	2.03	0.40
1:A:4037:ASN:ND2	1:A:5035:GLN:HE22	2.19	0.40
1:A:4999:ASP:OD1	1:A:5001:THR:HG23	2.22	0.40
2:E:67:SER:HB3	2:E:70:GLN:OE1	2.22	0.40
2:G:100:ASP:OD1	2:G:100:ASP:N	2.55	0.40
1:B:110:ARG:HA	1:B:117:TYR:HA	2.03	0.40
1:B:305:CYS:SG	1:B:306:LYS:N	2.93	0.40
1:B:563:VAL:O	1:B:567:VAL:HG23	2.21	0.40
1:B:1270:LEU:CD1	1:B:1564:PHE:HB2	2.51	0.40
1:B:2716:ASP:N	1:B:2716:ASP:OD1	2.53	0.40
1:B:2825:LYS:NZ	1:B:2931:GLN:HA	2.37	0.40
1:B:3283:ARG:HA	1:B:3286:GLU:OE1	2.21	0.40
1:B:3355:HIS:HA	1:B:3359:ILE:CD1	2.52	0.40
1:B:4553:ASN:C	1:B:4557:ARG:HE	2.24	0.40
1:B:4760:PRO:HA	1:B:4761:PRO:HD3	1.94	0.40
1:D:132:ALA:HA	1:D:193:ALA:O	2.22	0.40
1:D:563:VAL:O	1:D:567:VAL:HG23	2.21	0.40
1:D:893:TYR:HB3	1:D:962:SER:HB3	2.04	0.40
1:D:1251:GLU:OE1	1:D:1251:GLU:N	2.34	0.40
1:D:1619:ARG:HB3	1:D:1626:TRP:CE2	2.56	0.40
1:D:2012:PHE:CD1	1:D:3661:TRP:HZ2	2.40	0.40
1:D:2099:SER:HA	1:D:2124:LEU:HD12	2.03	0.40
1:D:2313:LEU:HG	1:D:2318:TYR:HB3	2.03	0.40
1:D:2321:ILE:HG12	1:D:2322:GLY:N	2.37	0.40
1:D:2479:LEU:HD22	1:D:2479:LEU:H	1.85	0.40
1:D:3552:PHE:HA	1:D:3555:ASN:ND2	2.37	0.40
1:D:3812:VAL:HG13	1:D:3816:MET:HE3	2.03	0.40
1:D:4209:GLN:NE2	1:D:4244:GLU:OE1	2.52	0.40
1:D:4902:GLU:H	1:D:4902:GLU:CD	2.17	0.40
1:D:4958:CYS:HA	3:D:5301:ATP:N7	2.36	0.40
1:C:103:TYR:HB2	1:C:161:GLU:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:266:ARG:HD2	1:C:268:SER:O	2.22	0.40
1:C:272:SER:HA	1:C:334:MET:HE1	2.02	0.40
1:C:457:GLU:OE1	1:C:457:GLU:N	2.54	0.40
1:C:743:VAL:O	1:C:759:ILE:HD12	2.22	0.40
1:C:895:PRO:HD2	1:C:903:LEU:HD23	2.03	0.40
1:C:1131:ARG:C	1:C:1132:TRP:HD1	2.25	0.40
1:C:1159:THR:HG22	1:C:1180:ARG:HA	2.03	0.40
1:C:1205:GLY:HA3	1:C:1225:PRO:HB3	2.04	0.40
1:C:1427:ILE:HD12	1:C:1427:ILE:HA	1.89	0.40
1:C:1753:LYS:HB3	1:C:1758:ARG:HG3	2.04	0.40
1:C:1810:LYS:HE3	1:C:1810:LYS:HB2	1.69	0.40
1:C:2095:GLN:HB3	1:C:2127:GLN:HB3	2.04	0.40
1:C:2178:MET:HE2	1:C:2179:ILE:N	2.36	0.40
1:C:2420:HIS:O	1:C:2424:SER:OG	2.29	0.40
1:C:3283:ARG:HA	1:C:3286:GLU:OE1	2.20	0.40
1:C:3663:LEU:HD23	1:C:3663:LEU:HA	1.90	0.40
1:C:3758:MET:HE3	1:C:3759:GLU:HG3	2.02	0.40
1:C:4159:ARG:HB3	1:C:4163:PHE:CZ	2.56	0.40
1:C:4165:GLU:HA	1:C:4168:GLU:HG2	2.02	0.40
1:C:4796:MET:O	1:C:4799:SER:OG	2.36	0.40
1:C:4974:GLY:O	1:C:4977:THR:OG1	2.32	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	A	4385/5037 (87%)	4250 (97%)	129 (3%)	6 (0%)	48 83
1	B	4385/5037 (87%)	4250 (97%)	129 (3%)	6 (0%)	48 83
1	C	4385/5037 (87%)	4249 (97%)	130 (3%)	6 (0%)	48 83
1	D	4385/5037 (87%)	4250 (97%)	129 (3%)	6 (0%)	48 83

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	E	105/108 (97%)	97 (92%)	8 (8%)	0	100	100
2	F	105/108 (97%)	102 (97%)	3 (3%)	0	100	100
2	G	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	H	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
All	All	17960/20580 (87%)	17404 (97%)	532 (3%)	24 (0%)	50	83

All (24) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	908	VAL
1	A	3300	ALA
1	A	4711	PHE
1	B	908	VAL
1	B	3300	ALA
1	B	4711	PHE
1	D	908	VAL
1	D	3300	ALA
1	D	4711	PHE
1	C	908	VAL
1	C	3300	ALA
1	C	4711	PHE
1	A	55	ALA
1	B	55	ALA
1	D	55	ALA
1	C	55	ALA
1	A	2702	CYS
1	B	2702	CYS
1	D	2702	CYS
1	C	2702	CYS
1	A	1930	LYS
1	B	1930	LYS
1	D	1930	LYS
1	C	1930	LYS

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	A	3836/4276 (90%)	3575 (93%)	261 (7%)	13	34
1	B	3836/4276 (90%)	3575 (93%)	261 (7%)	13	34
1	C	3836/4276 (90%)	3574 (93%)	262 (7%)	13	34
1	D	3836/4276 (90%)	3575 (93%)	261 (7%)	13	34
2	E	89/90 (99%)	80 (90%)	9 (10%)	6	21
2	F	89/90 (99%)	78 (88%)	11 (12%)	4	16
2	G	89/90 (99%)	83 (93%)	6 (7%)	13	34
2	H	89/90 (99%)	78 (88%)	11 (12%)	4	16
All	All	15700/17464 (90%)	14618 (93%)	1082 (7%)	16	33

All (1082) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	10	GLU
1	A	29	LEU
1	A	30	LYS
1	A	47	CYS
1	A	57	ASN
1	A	58	VAL
1	A	74	SER
1	A	81	MET
1	A	125	ARG
1	A	127	MET
1	A	129	ASP
1	A	150	MET
1	A	157	ARG
1	A	158	SER
1	A	172	VAL
1	A	173	SER
1	A	202	MET
1	A	211	GLU
1	A	213	TYR
1	A	234	SER
1	A	239	ASP
1	A	243	ARG
1	A	246	TYR
1	A	257	ARG
1	A	305	CYS

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Mol	Chain	Res	Type
1	A	328	LYS
1	A	341	TYR
1	A	385	ASP
1	A	389	PHE
1	A	393	CYS
1	A	461	HIS
1	A	493	ARG
1	A	510	GLU
1	A	552	ASP
1	A	591	ASP
1	A	649	PHE
1	A	656	SER
1	A	663	TYR
1	A	669	ASP
1	A	681	HIS
1	A	741	GLU
1	A	762	CYS
1	A	772	ASN
1	A	791	PHE
1	A	796	ARG
1	A	822	ARG
1	A	824	GLU
1	A	844	ARG
1	A	850	ASP
1	A	868	GLU
1	A	881	LEU
1	A	891	TRP
1	A	897	ARG
1	A	906	CYS
1	A	921	ASN
1	A	924	MET
1	A	938	HIS
1	A	951	LYS
1	A	960	MET
1	A	961	MET
1	A	976	ARG
1	A	999	ASP
1	A	1022	VAL
1	A	1025	ARG
1	A	1068	ARG
1	A	1101	ARG
1	A	1112	ASP

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Mol	Chain	Res	Type
1	A	1141	ARG
1	A	1143	TRP
1	A	1172	ASP
1	A	1192	CYS
1	A	1212	ARG
1	A	1226	PHE
1	A	1232	ARG
1	A	1242	LEU
1	A	1282	SER
1	A	1301	PHE
1	A	1422	ASP
1	A	1434	TYR
1	A	1435	TYR
1	A	1459	GLN
1	A	1465	ASP
1	A	1468	LYS
1	A	1485	SER
1	A	1499	ASP
1	A	1500	PHE
1	A	1508	ARG
1	A	1560	ASN
1	A	1591	CYS
1	A	1619	ARG
1	A	1623	ARG
1	A	1629	GLN
1	A	1630	CYS
1	A	1636	MET
1	A	1656	ARG
1	A	1668	ARG
1	A	1690	ASP
1	A	1730	MET
1	A	1743[A]	ARG
1	A	1743[B]	ARG
1	A	1747	LEU
1	A	1748	PHE
1	A	1752	ARG
1	A	1812	LEU
1	A	1854	PHE
1	A	1973	GLN
1	A	1994	ARG
1	A	2008	MET
1	A	2011	HIS

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Mol	Chain	Res	Type
1	A	2012	PHE
1	A	2017	ASP
1	A	2093	SER
1	A	2118	ARG
1	A	2178	MET
1	A	2222	GLU
1	A	2225	PHE
1	A	2227	LYS
1	A	2233	CYS
1	A	2243	SER
1	A	2250	MET
1	A	2256	TYR
1	A	2268[A]	GLN
1	A	2268[B]	GLN
1	A	2294	ASP
1	A	2310	CYS
1	A	2313	LEU
1	A	2318	TYR
1	A	2336	ARG
1	A	2342	ASN
1	A	2369[A]	ARG
1	A	2369[B]	ARG
1	A	2452	ARG
1	A	2490	MET
1	A	2514	ASN
1	A	2517	PHE
1	A	2530	MET
1	A	2553	TYR
1	A	2561	LEU
1	A	2582	MET
1	A	2593	ARG
1	A	2608	MET
1	A	2612[A]	ARG
1	A	2612[B]	ARG
1	A	2615	ARG
1	A	2629	ASP
1	A	2634	ASN
1	A	2636	PHE
1	A	2639	MET
1	A	2647	HIS
1	A	2654	TYR
1	A	2667	THR

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Mol	Chain	Res	Type
1	A	2683	PHE
1	A	2697	ARG
1	A	2719	TYR
1	A	2758	PHE
1	A	2782	ASP
1	A	2786	LYS
1	A	2805	TYR
1	A	2827	ARG
1	A	2830	GLU
1	A	2863	SER
1	A	2870[A]	GLU
1	A	2870[B]	GLU
1	A	2877	GLN
1	A	2886	TRP
1	A	2888	ARG
1	A	2889	LYS
1	A	2914	LYS
1	A	2932	MET
1	A	2935	TYR
1	A	2937	VAL
1	A	2972	GLU
1	A	2976	HIS
1	A	3016	TYR
1	A	3033	ASN
1	A	3053	ARG
1	A	3078	ARG
1	A	3081	MET
1	A	3131	TYR
1	A	3155	ASP
1	A	3161	VAL
1	A	3225	ARG
1	A	3232	LEU
1	A	3266	MET
1	A	3276	MET
1	A	3283	ARG
1	A	3335	MET
1	A	3336	LYS
1	A	3350	ARG
1	A	3358	PHE
1	A	3367	LYS
1	A	3378	GLN
1	A	3415	TYR

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Mol	Chain	Res	Type
1	A	3422[A]	HIS
1	A	3422[B]	HIS
1	A	3430	ASN
1	A	3435	PHE
1	A	3478	MET
1	A	3499	ARG
1	A	3517	MET
1	A	3524	MET
1	A	3543	LYS
1	A	3550	ARG
1	A	3558	HIS
1	A	3559	LEU
1	A	3591	LYS
1	A	3617	LYS
1	A	3630	ARG
1	A	3652	MET
1	A	3667	HIS
1	A	3672	ARG
1	A	3694	LYS
1	A	3715	LYS
1	A	3717	ASP
1	A	3720	TYR
1	A	3729	MET
1	A	3753	PHE
1	A	3758	MET
1	A	3771	HIS
1	A	3790	THR
1	A	3824	LYS
1	A	3836	MET
1	A	3849	ARG
1	A	3879	GLU
1	A	3899	PHE
1	A	3934	TYR
1	A	3937	TYR
1	A	3950	ASN
1	A	3985	LEU
1	A	4001	MET
1	A	4147	LEU
1	A	4162	ASN
1	A	4184	MET
1	A	4215	ARG
1	A	4217	PHE

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Mol	Chain	Res	Type
1	A	4239	GLU
1	A	4550	LYS
1	A	4564	PHE
1	A	4627	MET
1	A	4631	PHE
1	A	4652	LEU
1	A	4662	ASN
1	A	4684	ASP
1	A	4711	PHE
1	A	4743	MET
1	A	4749	GLU
1	A	4786	ASP
1	A	4787	ASN
1	A	4795	TYR
1	A	4796	MET
1	A	4807	PHE
1	A	4870	ASP
1	A	4876	CYS
1	A	4879	MET
1	A	4887	MET
1	A	4913	ARG
1	A	4954	MET
1	A	4957	LYS
1	A	4958	CYS
1	A	4993	MET
1	A	5031	GLN
2	E	6	THR
2	E	17	LYS
2	E	25	HIS
2	E	29	MET
2	E	38	SER
2	E	40	ARG
2	E	79	ASP
2	E	94	HIS
2	E	105	LYS
2	H	6	THR
2	H	8	SER
2	H	18	ARG
2	H	29	MET
2	H	38	SER
2	H	40	ARG
2	H	44	LYS

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Mol	Chain	Res	Type
2	H	49	MET
2	H	61	GLU
2	H	79	ASP
2	H	94	HIS
2	G	6	THR
2	G	29	MET
2	G	38	SER
2	G	44	LYS
2	G	57	ARG
2	G	94	HIS
2	F	18	ARG
2	F	20	GLN
2	F	29	MET
2	F	38	SER
2	F	40	ARG
2	F	44	LYS
2	F	61	GLU
2	F	73	LYS
2	F	79	ASP
2	F	85	THR
2	F	94	HIS
1	B	10	GLU
1	B	29	LEU
1	B	30	LYS
1	B	47	CYS
1	B	57	ASN
1	B	58	VAL
1	B	74	SER
1	B	81	MET
1	B	125	ARG
1	B	127	MET
1	B	129	ASP
1	B	150	MET
1	B	157	ARG
1	B	158	SER
1	B	172	VAL
1	B	173	SER
1	B	202	MET
1	B	211	GLU
1	B	213	TYR
1	B	234	SER
1	B	239	ASP

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Mol	Chain	Res	Type
1	B	243	ARG
1	B	246	TYR
1	B	257	ARG
1	B	305	CYS
1	B	328	LYS
1	B	341	TYR
1	B	385	ASP
1	B	389	PHE
1	B	393	CYS
1	B	461	HIS
1	B	493	ARG
1	B	510	GLU
1	B	552	ASP
1	B	591	ASP
1	B	649	PHE
1	B	656	SER
1	B	663	TYR
1	B	669	ASP
1	B	681	HIS
1	B	741	GLU
1	B	762	CYS
1	B	772	ASN
1	B	791	PHE
1	B	796	ARG
1	B	822	ARG
1	B	824	GLU
1	B	844	ARG
1	B	850	ASP
1	B	868	GLU
1	B	881	LEU
1	B	891	TRP
1	B	897	ARG
1	B	906	CYS
1	B	921	ASN
1	B	924	MET
1	B	938	HIS
1	B	951	LYS
1	B	960	MET
1	B	961	MET
1	B	976	ARG
1	B	999	ASP
1	B	1018	ASN

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Mol	Chain	Res	Type
1	B	1022	VAL
1	B	1025	ARG
1	B	1068	ARG
1	B	1101	ARG
1	B	1112	ASP
1	B	1141	ARG
1	B	1143	TRP
1	B	1172	ASP
1	B	1192	CYS
1	B	1212	ARG
1	B	1226	PHE
1	B	1232	ARG
1	B	1242	LEU
1	B	1282	SER
1	B	1301	PHE
1	B	1422	ASP
1	B	1434	TYR
1	B	1435	TYR
1	B	1459	GLN
1	B	1465	ASP
1	B	1468	LYS
1	B	1485	SER
1	B	1499	ASP
1	B	1500	PHE
1	B	1508	ARG
1	B	1560	ASN
1	B	1591	CYS
1	B	1619	ARG
1	B	1623	ARG
1	B	1629	GLN
1	B	1630	CYS
1	B	1636	MET
1	B	1656	ARG
1	B	1668	ARG
1	B	1690	ASP
1	B	1730	MET
1	B	1743[A]	ARG
1	B	1743[B]	ARG
1	B	1747	LEU
1	B	1748	PHE
1	B	1752	ARG
1	B	1812	LEU

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Mol	Chain	Res	Type
1	B	1854	PHE
1	B	1973	GLN
1	B	1994	ARG
1	B	2008	MET
1	B	2011	HIS
1	B	2012	PHE
1	B	2017	ASP
1	B	2093	SER
1	B	2118	ARG
1	B	2178	MET
1	B	2222	GLU
1	B	2225	PHE
1	B	2227	LYS
1	B	2233	CYS
1	B	2243	SER
1	B	2250	MET
1	B	2256	TYR
1	B	2268[A]	GLN
1	B	2268[B]	GLN
1	B	2294	ASP
1	B	2310	CYS
1	B	2313	LEU
1	B	2318	TYR
1	B	2336	ARG
1	B	2342	ASN
1	B	2369[A]	ARG
1	B	2369[B]	ARG
1	B	2452	ARG
1	B	2490	MET
1	B	2514	ASN
1	B	2517	PHE
1	B	2530	MET
1	B	2553	TYR
1	B	2561	LEU
1	B	2582	MET
1	B	2593	ARG
1	B	2608	MET
1	B	2612[A]	ARG
1	B	2612[B]	ARG
1	B	2615	ARG
1	B	2629	ASP
1	B	2634	ASN

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Mol	Chain	Res	Type
1	B	2636	PHE
1	B	2639	MET
1	B	2647	HIS
1	B	2654	TYR
1	B	2667	THR
1	B	2683	PHE
1	B	2697	ARG
1	B	2719	TYR
1	B	2758	PHE
1	B	2782	ASP
1	B	2786	LYS
1	B	2805	TYR
1	B	2827	ARG
1	B	2830	GLU
1	B	2863	SER
1	B	2870[A]	GLU
1	B	2870[B]	GLU
1	B	2877	GLN
1	B	2886	TRP
1	B	2888	ARG
1	B	2889	LYS
1	B	2914	LYS
1	B	2932	MET
1	B	2935	TYR
1	B	2937	VAL
1	B	2972	GLU
1	B	2976	HIS
1	B	3016	TYR
1	B	3033	ASN
1	B	3053	ARG
1	B	3078	ARG
1	B	3081	MET
1	B	3131	TYR
1	B	3155	ASP
1	B	3161	VAL
1	B	3225	ARG
1	B	3232	LEU
1	B	3266	MET
1	B	3276	MET
1	B	3283	ARG
1	B	3335	MET
1	B	3336	LYS

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Mol	Chain	Res	Type
1	B	3350	ARG
1	B	3358	PHE
1	B	3367	LYS
1	B	3378	GLN
1	B	3415	TYR
1	B	3422[A]	HIS
1	B	3422[B]	HIS
1	B	3430	ASN
1	B	3435	PHE
1	B	3499	ARG
1	B	3517	MET
1	B	3524	MET
1	B	3543	LYS
1	B	3550	ARG
1	B	3558	HIS
1	B	3559	LEU
1	B	3591	LYS
1	B	3617	LYS
1	B	3630	ARG
1	B	3652	MET
1	B	3667	HIS
1	B	3672	ARG
1	B	3694	LYS
1	B	3715	LYS
1	B	3717	ASP
1	B	3720	TYR
1	B	3729	MET
1	B	3753	PHE
1	B	3758	MET
1	B	3771	HIS
1	B	3790	THR
1	B	3824	LYS
1	B	3836	MET
1	B	3849	ARG
1	B	3879	GLU
1	B	3899	PHE
1	B	3934	TYR
1	B	3937	TYR
1	B	3950	ASN
1	B	3985	LEU
1	B	4001	MET
1	B	4147	LEU

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Mol	Chain	Res	Type
1	B	4162	ASN
1	B	4184	MET
1	B	4215	ARG
1	B	4217	PHE
1	B	4239	GLU
1	B	4550	LYS
1	B	4564	PHE
1	B	4627	MET
1	B	4631	PHE
1	B	4652	LEU
1	B	4662	ASN
1	B	4684	ASP
1	B	4711	PHE
1	B	4743	MET
1	B	4749	GLU
1	B	4786	ASP
1	B	4787	ASN
1	B	4795	TYR
1	B	4796	MET
1	B	4807	PHE
1	B	4870	ASP
1	B	4876	CYS
1	B	4879	MET
1	B	4887	MET
1	B	4913	ARG
1	B	4954	MET
1	B	4957	LYS
1	B	4958	CYS
1	B	4993	MET
1	B	5031	GLN
1	D	10	GLU
1	D	29	LEU
1	D	30	LYS
1	D	47	CYS
1	D	57	ASN
1	D	58	VAL
1	D	74	SER
1	D	81	MET
1	D	125	ARG
1	D	127	MET
1	D	129	ASP
1	D	150	MET

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Mol	Chain	Res	Type
1	D	157	ARG
1	D	158	SER
1	D	172	VAL
1	D	173	SER
1	D	202	MET
1	D	211	GLU
1	D	213	TYR
1	D	234	SER
1	D	239	ASP
1	D	243	ARG
1	D	246	TYR
1	D	257	ARG
1	D	305	CYS
1	D	328	LYS
1	D	341	TYR
1	D	385	ASP
1	D	389	PHE
1	D	393	CYS
1	D	461	HIS
1	D	493	ARG
1	D	510	GLU
1	D	552	ASP
1	D	591	ASP
1	D	649	PHE
1	D	656	SER
1	D	663	TYR
1	D	669	ASP
1	D	681	HIS
1	D	741	GLU
1	D	762	CYS
1	D	772	ASN
1	D	791	PHE
1	D	796	ARG
1	D	822	ARG
1	D	824	GLU
1	D	844	ARG
1	D	850	ASP
1	D	868	GLU
1	D	881	LEU
1	D	891	TRP
1	D	897	ARG
1	D	906	CYS

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Mol	Chain	Res	Type
1	D	921	ASN
1	D	924	MET
1	D	938	HIS
1	D	951	LYS
1	D	960	MET
1	D	961	MET
1	D	976	ARG
1	D	999	ASP
1	D	1022	VAL
1	D	1025	ARG
1	D	1068	ARG
1	D	1101	ARG
1	D	1112	ASP
1	D	1141	ARG
1	D	1143	TRP
1	D	1172	ASP
1	D	1192	CYS
1	D	1212	ARG
1	D	1226	PHE
1	D	1232	ARG
1	D	1242	LEU
1	D	1282	SER
1	D	1301	PHE
1	D	1422	ASP
1	D	1434	TYR
1	D	1435	TYR
1	D	1459	GLN
1	D	1465	ASP
1	D	1468	LYS
1	D	1485	SER
1	D	1499	ASP
1	D	1500	PHE
1	D	1508	ARG
1	D	1560	ASN
1	D	1591	CYS
1	D	1619	ARG
1	D	1623	ARG
1	D	1629	GLN
1	D	1630	CYS
1	D	1636	MET
1	D	1656	ARG
1	D	1668	ARG

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Mol	Chain	Res	Type
1	D	1690	ASP
1	D	1730	MET
1	D	1743[A]	ARG
1	D	1743[B]	ARG
1	D	1747	LEU
1	D	1748	PHE
1	D	1752	ARG
1	D	1812	LEU
1	D	1854	PHE
1	D	1973	GLN
1	D	1994	ARG
1	D	2008	MET
1	D	2011	HIS
1	D	2012	PHE
1	D	2017	ASP
1	D	2093	SER
1	D	2118	ARG
1	D	2178	MET
1	D	2222	GLU
1	D	2225	PHE
1	D	2227	LYS
1	D	2233	CYS
1	D	2243	SER
1	D	2250	MET
1	D	2256	TYR
1	D	2268[A]	GLN
1	D	2268[B]	GLN
1	D	2294	ASP
1	D	2310	CYS
1	D	2313	LEU
1	D	2318	TYR
1	D	2336	ARG
1	D	2342	ASN
1	D	2369[A]	ARG
1	D	2369[B]	ARG
1	D	2452	ARG
1	D	2490	MET
1	D	2514	ASN
1	D	2517	PHE
1	D	2530	MET
1	D	2553	TYR
1	D	2561	LEU

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Mol	Chain	Res	Type
1	D	2582	MET
1	D	2593	ARG
1	D	2608	MET
1	D	2612[A]	ARG
1	D	2612[B]	ARG
1	D	2615	ARG
1	D	2629	ASP
1	D	2634	ASN
1	D	2636	PHE
1	D	2639	MET
1	D	2647	HIS
1	D	2654	TYR
1	D	2667	THR
1	D	2683	PHE
1	D	2697	ARG
1	D	2719	TYR
1	D	2758	PHE
1	D	2782	ASP
1	D	2786	LYS
1	D	2805	TYR
1	D	2827	ARG
1	D	2830	GLU
1	D	2863	SER
1	D	2870[A]	GLU
1	D	2870[B]	GLU
1	D	2877	GLN
1	D	2886	TRP
1	D	2888	ARG
1	D	2889	LYS
1	D	2914	LYS
1	D	2932	MET
1	D	2935	TYR
1	D	2937	VAL
1	D	2972	GLU
1	D	2976	HIS
1	D	3016	TYR
1	D	3033	ASN
1	D	3053	ARG
1	D	3078	ARG
1	D	3081	MET
1	D	3131	TYR
1	D	3155	ASP

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Mol	Chain	Res	Type
1	D	3161	VAL
1	D	3225	ARG
1	D	3232	LEU
1	D	3266	MET
1	D	3276	MET
1	D	3283	ARG
1	D	3335	MET
1	D	3336	LYS
1	D	3350	ARG
1	D	3358	PHE
1	D	3367	LYS
1	D	3378	GLN
1	D	3415	TYR
1	D	3422[A]	HIS
1	D	3422[B]	HIS
1	D	3430	ASN
1	D	3435	PHE
1	D	3478	MET
1	D	3499	ARG
1	D	3517	MET
1	D	3524	MET
1	D	3543	LYS
1	D	3550	ARG
1	D	3558	HIS
1	D	3559	LEU
1	D	3591	LYS
1	D	3617	LYS
1	D	3630	ARG
1	D	3652	MET
1	D	3667	HIS
1	D	3672	ARG
1	D	3694	LYS
1	D	3715	LYS
1	D	3717	ASP
1	D	3720	TYR
1	D	3729	MET
1	D	3753	PHE
1	D	3758	MET
1	D	3771	HIS
1	D	3790	THR
1	D	3824	LYS
1	D	3836	MET

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Mol	Chain	Res	Type
1	D	3849	ARG
1	D	3879	GLU
1	D	3899	PHE
1	D	3934	TYR
1	D	3937	TYR
1	D	3950	ASN
1	D	3985	LEU
1	D	4001	MET
1	D	4147	LEU
1	D	4162	ASN
1	D	4184	MET
1	D	4215	ARG
1	D	4217	PHE
1	D	4239	GLU
1	D	4550	LYS
1	D	4564	PHE
1	D	4627	MET
1	D	4631	PHE
1	D	4652	LEU
1	D	4662	ASN
1	D	4684	ASP
1	D	4711	PHE
1	D	4743	MET
1	D	4749	GLU
1	D	4786	ASP
1	D	4787	ASN
1	D	4795	TYR
1	D	4796	MET
1	D	4807	PHE
1	D	4870	ASP
1	D	4876	CYS
1	D	4879	MET
1	D	4887	MET
1	D	4913	ARG
1	D	4954	MET
1	D	4957	LYS
1	D	4958	CYS
1	D	4993	MET
1	D	5031	GLN
1	C	10	GLU
1	C	29	LEU
1	C	30	LYS

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Mol	Chain	Res	Type
1	C	47	CYS
1	C	57	ASN
1	C	58	VAL
1	C	74	SER
1	C	81	MET
1	C	125	ARG
1	C	127	MET
1	C	129	ASP
1	C	150	MET
1	C	157	ARG
1	C	158	SER
1	C	172	VAL
1	C	173	SER
1	C	202	MET
1	C	211	GLU
1	C	213	TYR
1	C	234	SER
1	C	239	ASP
1	C	243	ARG
1	C	246	TYR
1	C	257	ARG
1	C	305	CYS
1	C	328	LYS
1	C	341	TYR
1	C	385	ASP
1	C	389	PHE
1	C	393	CYS
1	C	461	HIS
1	C	493	ARG
1	C	510	GLU
1	C	552	ASP
1	C	591	ASP
1	C	649	PHE
1	C	656	SER
1	C	663	TYR
1	C	669	ASP
1	C	681	HIS
1	C	741	GLU
1	C	762	CYS
1	C	772	ASN
1	C	791	PHE
1	C	796	ARG

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Mol	Chain	Res	Type
1	C	822	ARG
1	C	824	GLU
1	C	844	ARG
1	C	850	ASP
1	C	868	GLU
1	C	881	LEU
1	C	891	TRP
1	C	897	ARG
1	C	906	CYS
1	C	921	ASN
1	C	924	MET
1	C	938	HIS
1	C	951	LYS
1	C	960	MET
1	C	961	MET
1	C	976	ARG
1	C	999	ASP
1	C	1022	VAL
1	C	1025	ARG
1	C	1068	ARG
1	C	1101	ARG
1	C	1112	ASP
1	C	1141	ARG
1	C	1143	TRP
1	C	1172	ASP
1	C	1192	CYS
1	C	1212	ARG
1	C	1226	PHE
1	C	1232	ARG
1	C	1242	LEU
1	C	1282	SER
1	C	1301	PHE
1	C	1422	ASP
1	C	1434	TYR
1	C	1435	TYR
1	C	1459	GLN
1	C	1465	ASP
1	C	1468	LYS
1	C	1485	SER
1	C	1499	ASP
1	C	1500	PHE
1	C	1508	ARG

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Mol	Chain	Res	Type
1	C	1560	ASN
1	C	1591	CYS
1	C	1608	MET
1	C	1619	ARG
1	C	1623	ARG
1	C	1629	GLN
1	C	1630	CYS
1	C	1636	MET
1	C	1656	ARG
1	C	1668	ARG
1	C	1690	ASP
1	C	1730	MET
1	C	1743[A]	ARG
1	C	1743[B]	ARG
1	C	1747	LEU
1	C	1748	PHE
1	C	1752	ARG
1	C	1812	LEU
1	C	1854	PHE
1	C	1973	GLN
1	C	1994	ARG
1	C	2008	MET
1	C	2011	HIS
1	C	2012	PHE
1	C	2017	ASP
1	C	2093	SER
1	C	2118	ARG
1	C	2178	MET
1	C	2222	GLU
1	C	2225	PHE
1	C	2227	LYS
1	C	2233	CYS
1	C	2243	SER
1	C	2250	MET
1	C	2256	TYR
1	C	2268[A]	GLN
1	C	2268[B]	GLN
1	C	2294	ASP
1	C	2310	CYS
1	C	2313	LEU
1	C	2318	TYR
1	C	2336	ARG

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Mol	Chain	Res	Type
1	C	2342	ASN
1	C	2369[A]	ARG
1	C	2369[B]	ARG
1	C	2452	ARG
1	C	2490	MET
1	C	2514	ASN
1	C	2517	PHE
1	C	2530	MET
1	C	2553	TYR
1	C	2561	LEU
1	C	2582	MET
1	C	2593	ARG
1	C	2608	MET
1	C	2612[A]	ARG
1	C	2612[B]	ARG
1	C	2615	ARG
1	C	2629	ASP
1	C	2634	ASN
1	C	2636	PHE
1	C	2639	MET
1	C	2647	HIS
1	C	2654	TYR
1	C	2667	THR
1	C	2683	PHE
1	C	2697	ARG
1	C	2719	TYR
1	C	2758	PHE
1	C	2782	ASP
1	C	2786	LYS
1	C	2805	TYR
1	C	2827	ARG
1	C	2830	GLU
1	C	2863	SER
1	C	2870[A]	GLU
1	C	2870[B]	GLU
1	C	2877	GLN
1	C	2886	TRP
1	C	2888	ARG
1	C	2889	LYS
1	C	2914	LYS
1	C	2932	MET
1	C	2935	TYR

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Mol	Chain	Res	Type
1	C	2937	VAL
1	C	2972	GLU
1	C	2976	HIS
1	C	3016	TYR
1	C	3033	ASN
1	C	3053	ARG
1	C	3078	ARG
1	C	3081	MET
1	C	3131	TYR
1	C	3155	ASP
1	C	3161	VAL
1	C	3225	ARG
1	C	3232	LEU
1	C	3266	MET
1	C	3276	MET
1	C	3283	ARG
1	C	3335	MET
1	C	3336	LYS
1	C	3350	ARG
1	C	3358	PHE
1	C	3367	LYS
1	C	3378	GLN
1	C	3415	TYR
1	C	3422[A]	HIS
1	C	3422[B]	HIS
1	C	3430	ASN
1	C	3435	PHE
1	C	3478	MET
1	C	3499	ARG
1	C	3517	MET
1	C	3524	MET
1	C	3543	LYS
1	C	3550	ARG
1	C	3558	HIS
1	C	3559	LEU
1	C	3591	LYS
1	C	3617	LYS
1	C	3630	ARG
1	C	3652	MET
1	C	3667	HIS
1	C	3672	ARG
1	C	3694	LYS

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Mol	Chain	Res	Type
1	C	3715	LYS
1	C	3717	ASP
1	C	3720	TYR
1	C	3729	MET
1	C	3753	PHE
1	C	3758	MET
1	C	3771	HIS
1	C	3790	THR
1	C	3824	LYS
1	C	3836	MET
1	C	3849	ARG
1	C	3879	GLU
1	C	3899	PHE
1	C	3934	TYR
1	C	3937	TYR
1	C	3950	ASN
1	C	3985	LEU
1	C	4001	MET
1	C	4147	LEU
1	C	4162	ASN
1	C	4184	MET
1	C	4215	ARG
1	C	4217	PHE
1	C	4239	GLU
1	C	4550	LYS
1	C	4564	PHE
1	C	4627	MET
1	C	4631	PHE
1	C	4652	LEU
1	C	4662	ASN
1	C	4684	ASP
1	C	4711	PHE
1	C	4743	MET
1	C	4749	GLU
1	C	4786	ASP
1	C	4787	ASN
1	C	4795	TYR
1	C	4796	MET
1	C	4807	PHE
1	C	4870	ASP
1	C	4876	CYS
1	C	4879	MET

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Mol	Chain	Res	Type
1	C	4887	MET
1	C	4913	ARG
1	C	4954	MET
1	C	4957	LYS
1	C	4958	CYS
1	C	4993	MET
1	C	5031	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (163) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	308	HIS
1	A	479	GLN
1	A	582	HIS
1	A	597	HIS
1	A	658	GLN
1	A	681	HIS
1	A	772	ASN
1	A	963	ASN
1	A	991	ASN
1	A	1041	GLN
1	A	1206	GLN
1	A	1252	HIS
1	A	1505	GLN
1	A	1506	GLN
1	A	1586	ASN
1	A	1719	HIS
1	A	2003	GLN
1	A	2005	GLN
1	A	2007	ASN
1	A	2260	ASN
1	A	2417	HIS
1	A	2444	GLN
1	A	2487	GLN
1	A	2646	ASN
1	A	2881	ASN
1	A	2902	HIS
1	A	3008	GLN
1	A	3146	HIS
1	A	3149	GLN
1	A	3211	ASN
1	A	3318	ASN

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Mol	Chain	Res	Type
1	A	3555	ASN
1	A	3734	HIS
1	A	3837	GLN
1	A	3927	GLN
1	A	3970	GLN
1	A	3998	HIS
1	A	4037	ASN
1	A	4162	ASN
1	A	4728	HIS
1	A	4978	HIS
2	E	70	GLN
2	G	70	GLN
2	F	87	HIS
1	B	190	GLN
1	B	308	HIS
1	B	582	HIS
1	B	597	HIS
1	B	658	GLN
1	B	681	HIS
1	B	772	ASN
1	B	963	ASN
1	B	991	ASN
1	B	1206	GLN
1	B	1252	HIS
1	B	1505	GLN
1	B	1506	GLN
1	B	1586	ASN
1	B	1719	HIS
1	B	2003	GLN
1	B	2005	GLN
1	B	2007	ASN
1	B	2260	ASN
1	B	2417	HIS
1	B	2444	GLN
1	B	2487	GLN
1	B	2646	ASN
1	B	2881	ASN
1	B	2902	HIS
1	B	3008	GLN
1	B	3146	HIS
1	B	3149	GLN
1	B	3211	ASN

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Mol	Chain	Res	Type
1	B	3318	ASN
1	B	3555	ASN
1	B	3734	HIS
1	B	3837	GLN
1	B	3927	GLN
1	B	3970	GLN
1	B	3998	HIS
1	B	4037	ASN
1	B	4162	ASN
1	B	4728	HIS
1	B	4978	HIS
1	D	190	GLN
1	D	308	HIS
1	D	576	ASN
1	D	582	HIS
1	D	597	HIS
1	D	658	GLN
1	D	681	HIS
1	D	772	ASN
1	D	991	ASN
1	D	1206	GLN
1	D	1252	HIS
1	D	1505	GLN
1	D	1506	GLN
1	D	1586	ASN
1	D	1719	HIS
1	D	2003	GLN
1	D	2005	GLN
1	D	2007	ASN
1	D	2260	ASN
1	D	2417	HIS
1	D	2444	GLN
1	D	2487	GLN
1	D	2881	ASN
1	D	2902	HIS
1	D	3008	GLN
1	D	3146	HIS
1	D	3149	GLN
1	D	3211	ASN
1	D	3318	ASN
1	D	3555	ASN
1	D	3734	HIS

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Mol	Chain	Res	Type
1	D	3837	GLN
1	D	3927	GLN
1	D	3970	GLN
1	D	3998	HIS
1	D	4037	ASN
1	D	4162	ASN
1	D	4728	HIS
1	D	4978	HIS
1	C	23	GLN
1	C	190	GLN
1	C	308	HIS
1	C	582	HIS
1	C	597	HIS
1	C	658	GLN
1	C	681	HIS
1	C	772	ASN
1	C	963	ASN
1	C	991	ASN
1	C	1206	GLN
1	C	1252	HIS
1	C	1505	GLN
1	C	1506	GLN
1	C	1586	ASN
1	C	1719	HIS
1	C	2003	GLN
1	C	2005	GLN
1	C	2007	ASN
1	C	2260	ASN
1	C	2417	HIS
1	C	2444	GLN
1	C	2487	GLN
1	C	2881	ASN
1	C	2902	HIS
1	C	3008	GLN
1	C	3146	HIS
1	C	3149	GLN
1	C	3211	ASN
1	C	3318	ASN
1	C	3555	ASN
1	C	3734	HIS
1	C	3837	GLN
1	C	3927	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	3970	GLN
1	C	3998	HIS
1	C	4037	ASN
1	C	4162	ASN
1	C	4728	HIS
1	C	4978	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 16 ligands modelled in this entry, 8 are monoatomic - leaving 8 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
6	A1BD2	B	5304	-	16,19,19	0.82	0	15,28,28	1.22	2 (13%)
3	ATP	D	5301	-	28,33,33	0.68	0	34,52,52	0.87	2 (5%)
6	A1BD2	A	5304	-	16,19,19	0.82	0	15,28,28	1.21	2 (13%)
3	ATP	A	5301	-	28,33,33	0.68	0	34,52,52	0.87	2 (5%)
3	ATP	C	5301	-	28,33,33	0.68	0	34,52,52	0.87	2 (5%)
6	A1BD2	D	5304	-	16,19,19	0.82	0	15,28,28	1.21	2 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	A1BD2	C	5304	-	16,19,19	0.81	0	15,28,28	1.19	2 (13%)
3	ATP	B	5301	-	28,33,33	0.68	0	34,52,52	0.87	2 (5%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	A1BD2	B	5304	-	-	0/4/6/6	0/2/2/2
3	ATP	D	5301	-	-	5/18/38/38	0/3/3/3
6	A1BD2	A	5304	-	-	0/4/6/6	0/2/2/2
3	ATP	A	5301	-	-	5/18/38/38	0/3/3/3
3	ATP	C	5301	-	-	5/18/38/38	0/3/3/3
6	A1BD2	D	5304	-	-	0/4/6/6	0/2/2/2
6	A1BD2	C	5304	-	-	0/4/6/6	0/2/2/2
3	ATP	B	5301	-	-	5/18/38/38	0/3/3/3

There are no bond length outliers.

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	5301	ATP	C4'-O4'-C1'	-3.65	106.58	109.92
3	A	5301	ATP	C4'-O4'-C1'	-3.64	106.59	109.92
3	B	5301	ATP	C4'-O4'-C1'	-3.64	106.59	109.92
3	C	5301	ATP	C4'-O4'-C1'	-3.62	106.61	109.92
6	A	5304	A1BD2	C2-N1-C5	-2.92	119.52	122.22
6	B	5304	A1BD2	C2-N1-C5	-2.90	119.55	122.22
6	D	5304	A1BD2	C2-N1-C5	-2.89	119.55	122.22
6	C	5304	A1BD2	C2-N1-C5	-2.84	119.60	122.22
6	B	5304	A1BD2	C1-N1-C5	2.65	120.08	117.34
6	A	5304	A1BD2	C1-N1-C5	2.62	120.05	117.34
6	D	5304	A1BD2	C1-N1-C5	2.59	120.02	117.34
6	C	5304	A1BD2	C1-N1-C5	2.55	119.97	117.34
3	C	5301	ATP	C5-C6-N6	2.29	123.80	120.31
3	A	5301	ATP	C5-C6-N6	2.29	123.80	120.31
3	B	5301	ATP	C5-C6-N6	2.29	123.80	120.31
3	D	5301	ATP	C5-C6-N6	2.29	123.80	120.31

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	D	5301	ATP	O4'-C4'-C5'-O5'
3	A	5301	ATP	O4'-C4'-C5'-O5'
3	B	5301	ATP	O4'-C4'-C5'-O5'
3	C	5301	ATP	O4'-C4'-C5'-O5'
3	A	5301	ATP	PG-O3B-PB-O3A
3	B	5301	ATP	PG-O3B-PB-O3A
3	D	5301	ATP	PG-O3B-PB-O3A
3	C	5301	ATP	PG-O3B-PB-O3A
3	A	5301	ATP	PB-O3A-PA-O1A
3	A	5301	ATP	PB-O3A-PA-O2A
3	B	5301	ATP	PB-O3A-PA-O1A
3	B	5301	ATP	PB-O3A-PA-O2A
3	D	5301	ATP	PB-O3A-PA-O1A
3	D	5301	ATP	PB-O3A-PA-O2A
3	C	5301	ATP	PB-O3A-PA-O1A
3	C	5301	ATP	PB-O3A-PA-O2A
3	A	5301	ATP	PG-O3B-PB-O1B
3	B	5301	ATP	PG-O3B-PB-O1B
3	D	5301	ATP	PG-O3B-PB-O1B
3	C	5301	ATP	PG-O3B-PB-O1B

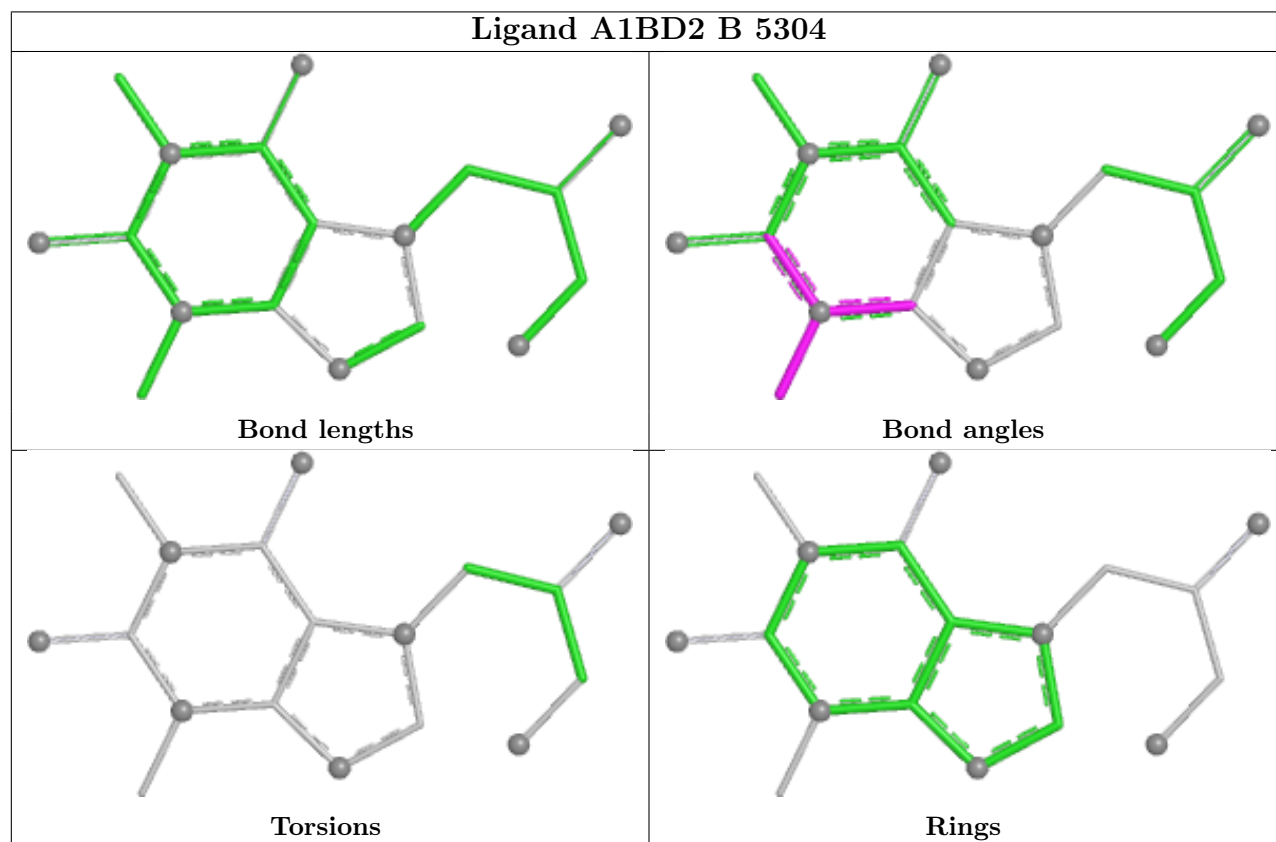
There are no ring outliers.

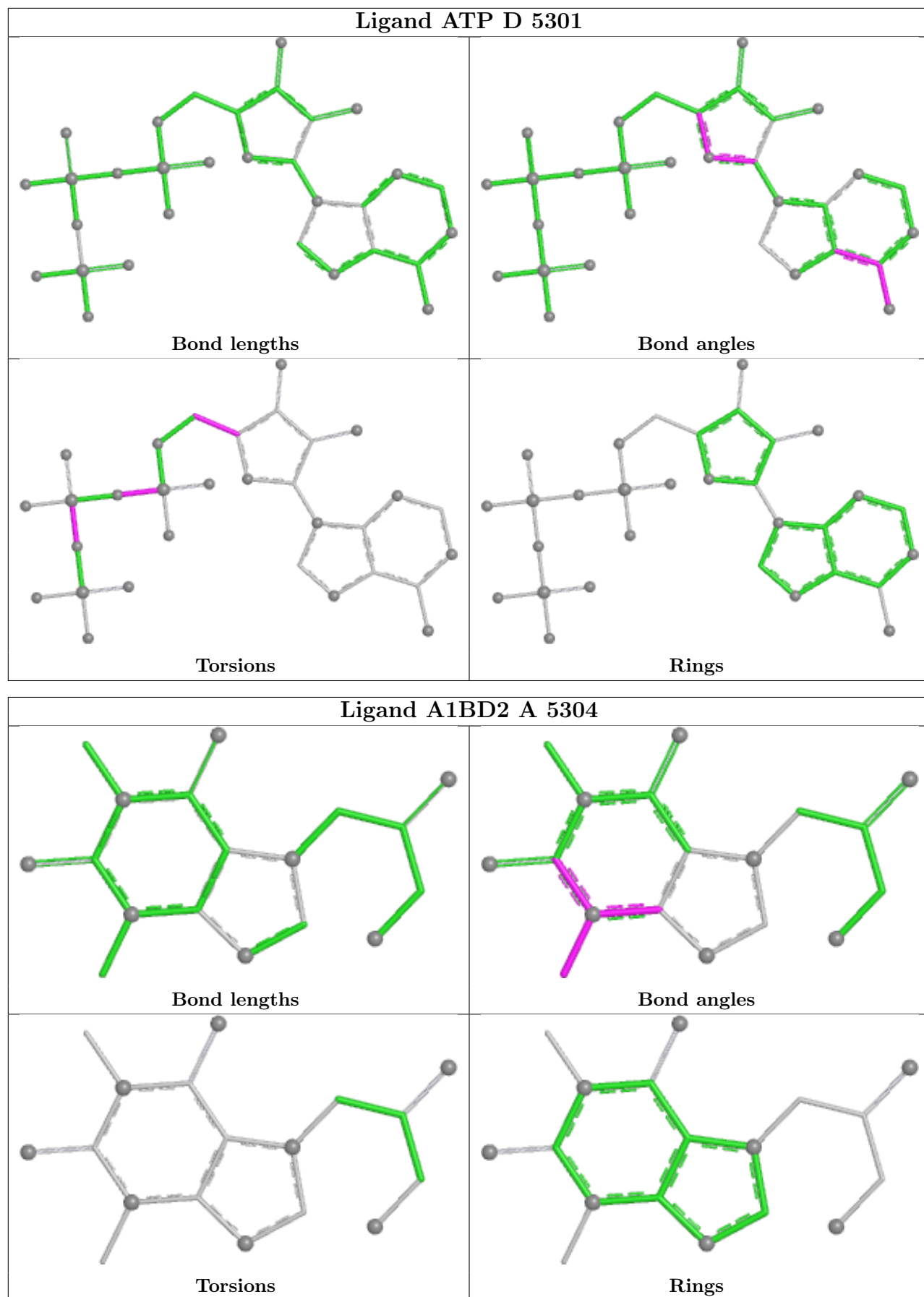
8 monomers are involved in 11 short contacts:

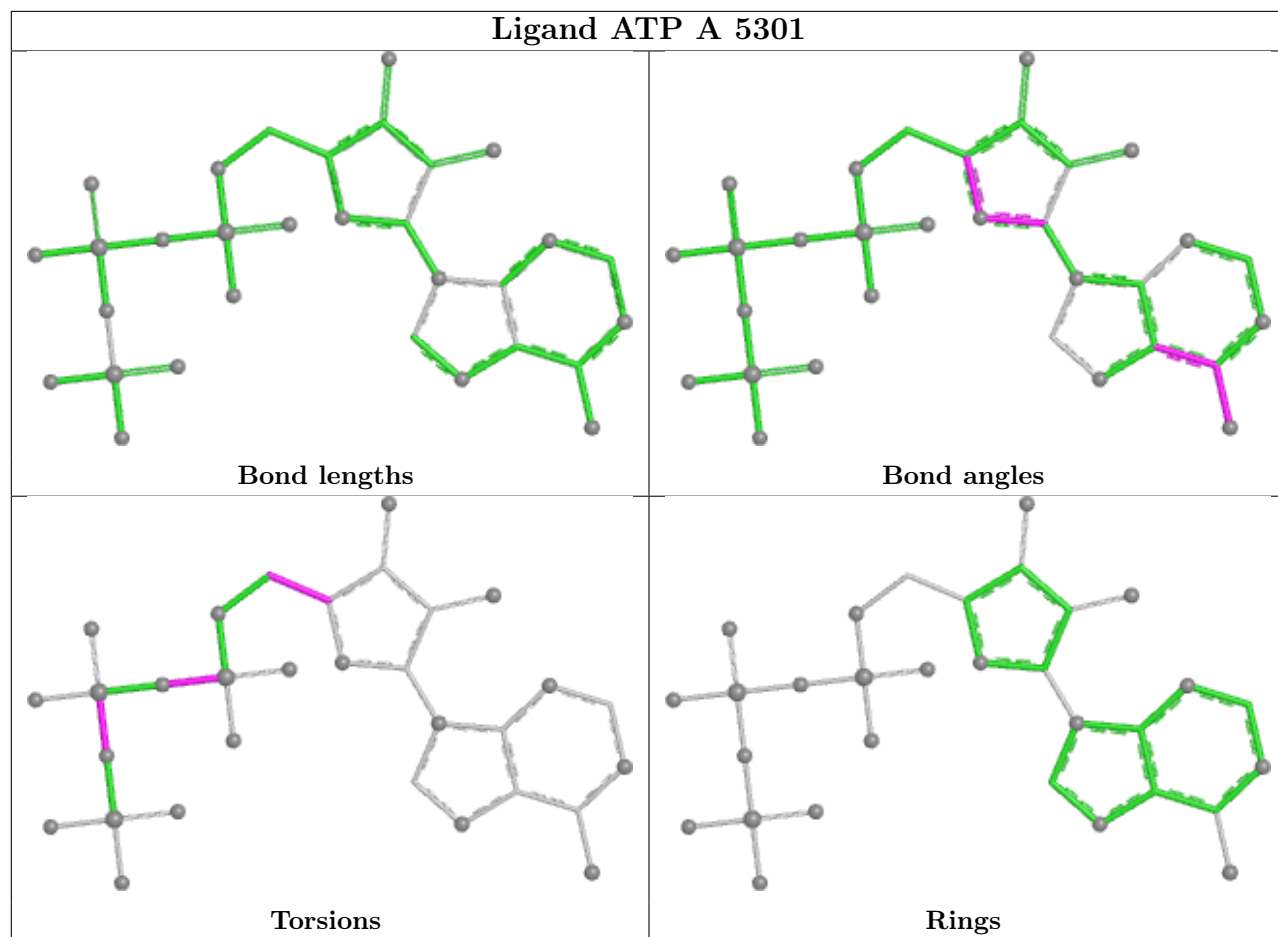
Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	5304	A1BD2	1	0
3	D	5301	ATP	2	0
6	A	5304	A1BD2	1	0
3	A	5301	ATP	1	0
3	C	5301	ATP	2	0
6	D	5304	A1BD2	1	0
6	C	5304	A1BD2	1	0
3	B	5301	ATP	2	0

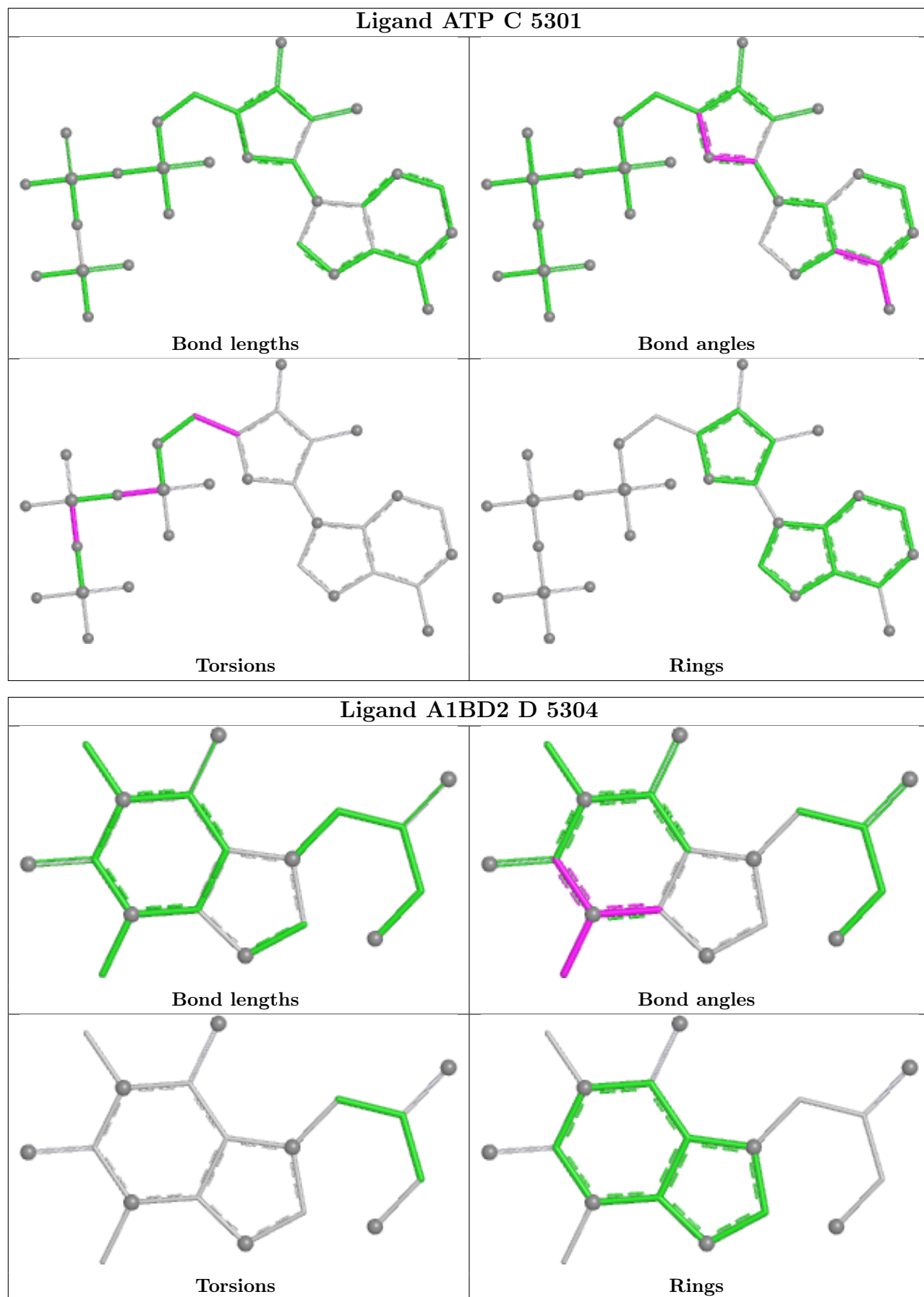
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the

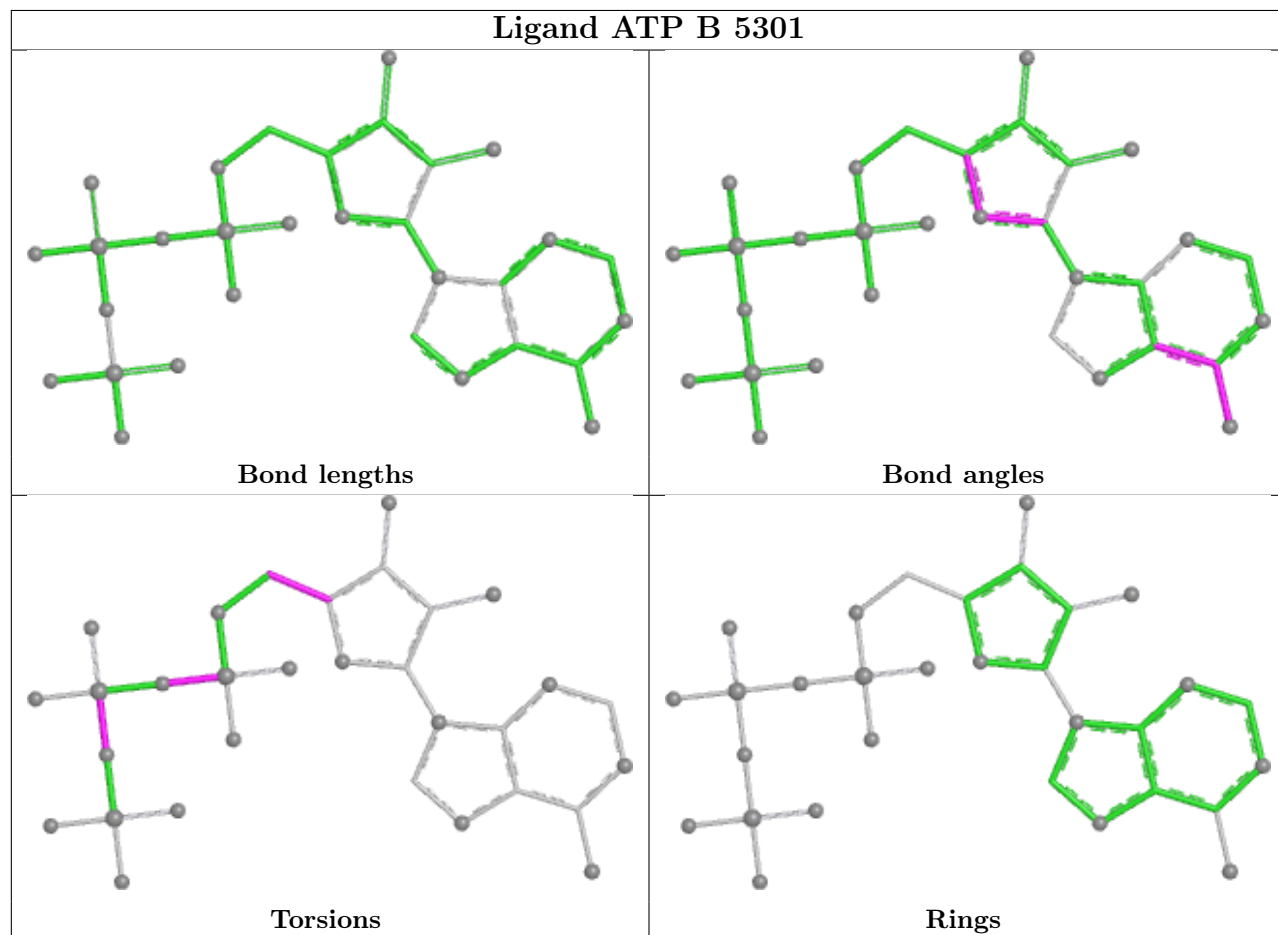
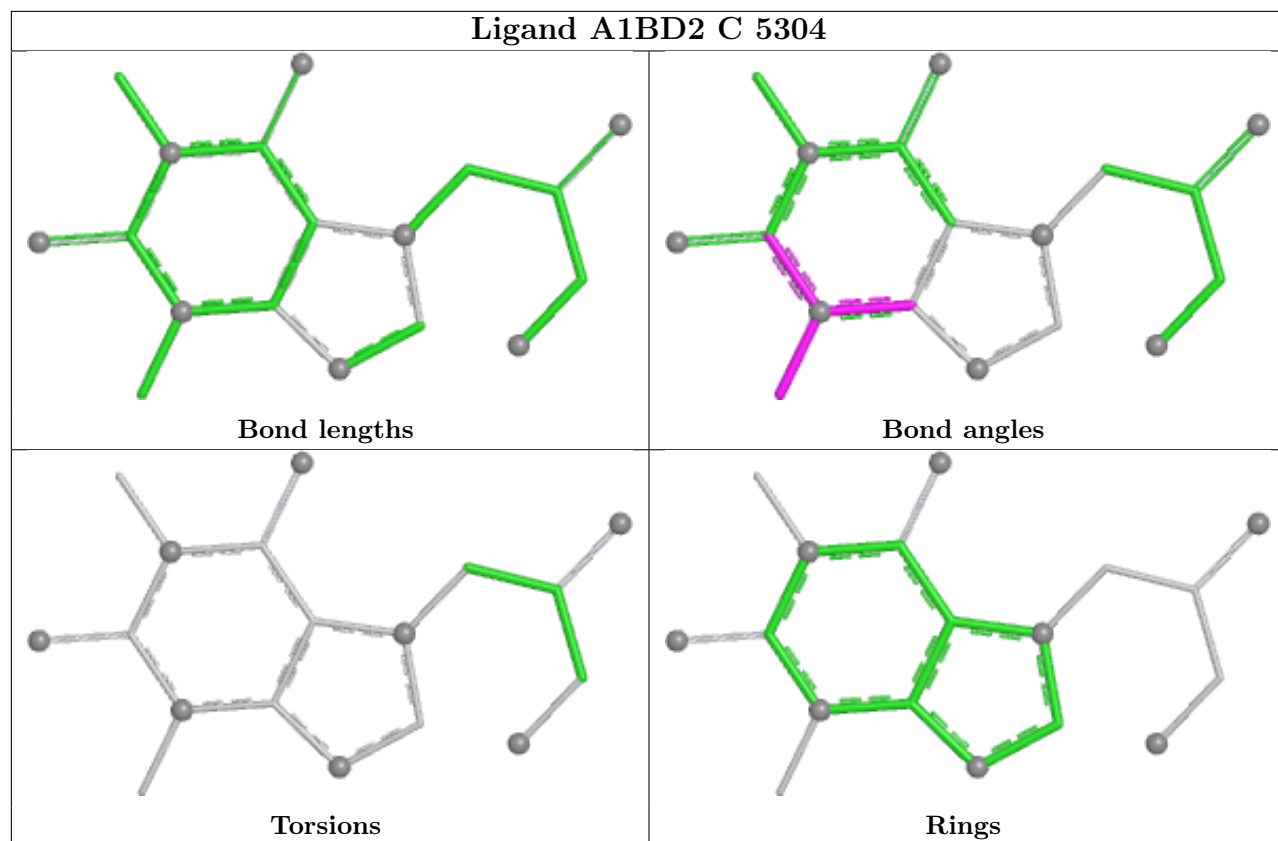
average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.











5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

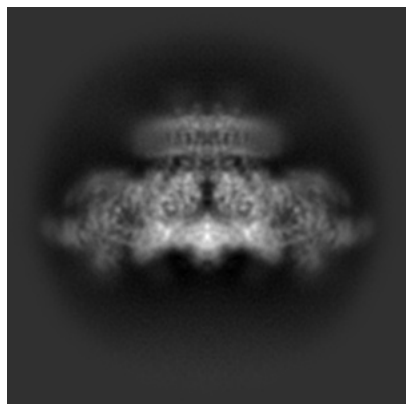
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-47388. These allow visual inspection of the internal detail of the map and identification of artifacts.

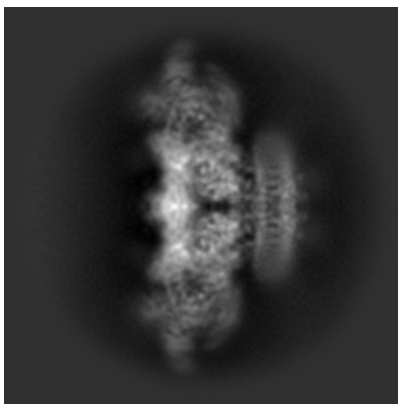
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

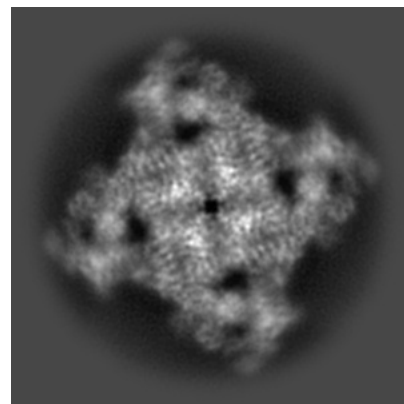
6.1.1 Primary map



X

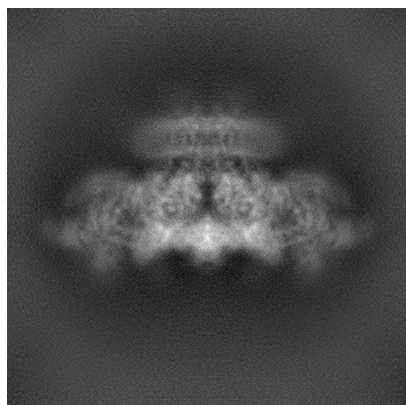


Y

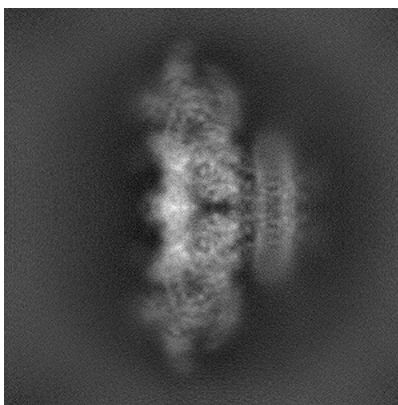


Z

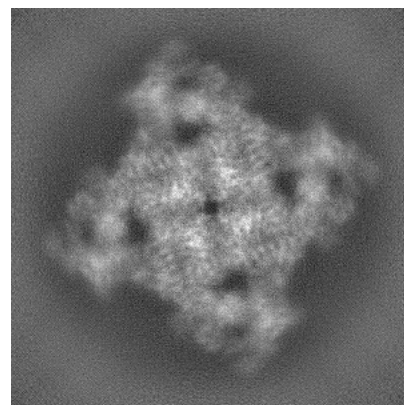
6.1.2 Raw map



X



Y

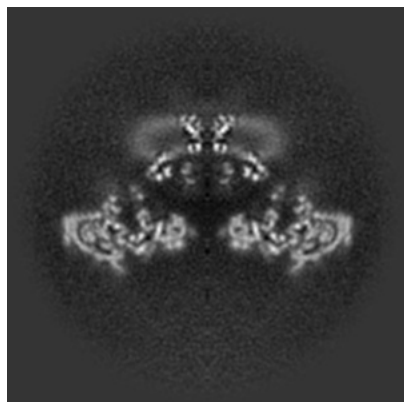


Z

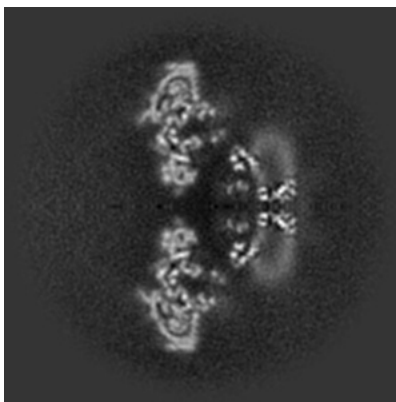
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

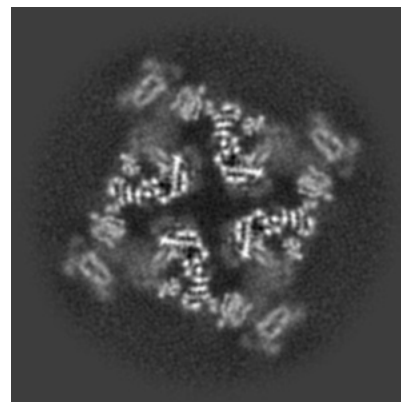
6.2.1 Primary map



X Index: 256

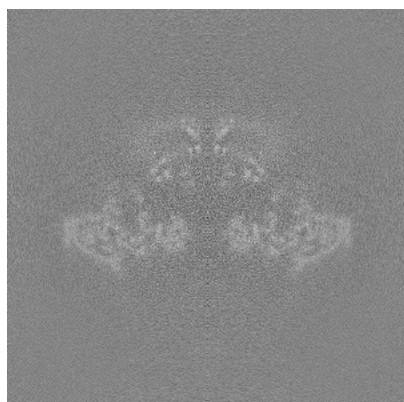


Y Index: 256

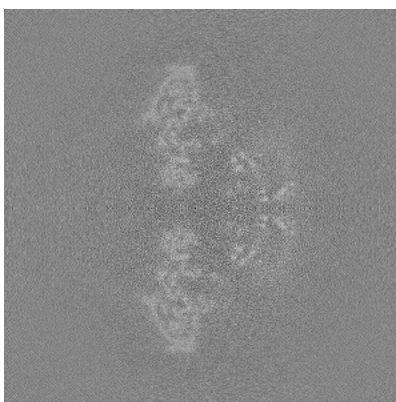


Z Index: 256

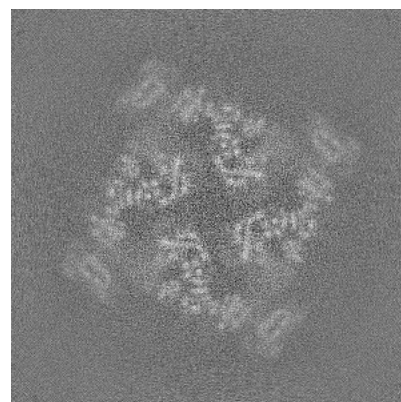
6.2.2 Raw map



X Index: 256



Y Index: 256

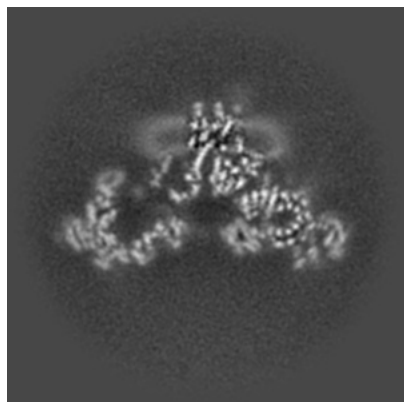


Z Index: 256

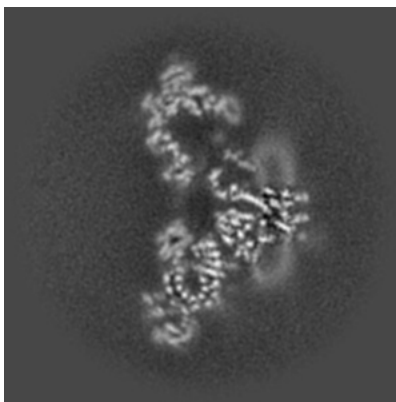
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

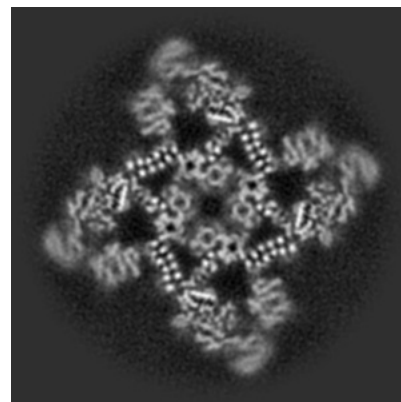
6.3.1 Primary map



X Index: 269

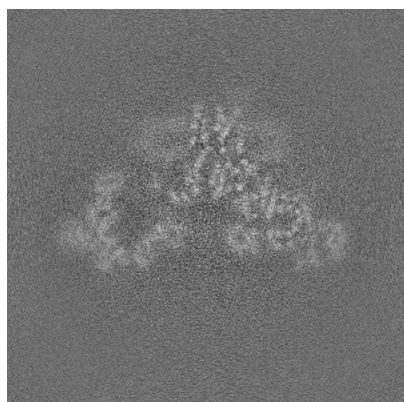


Y Index: 269

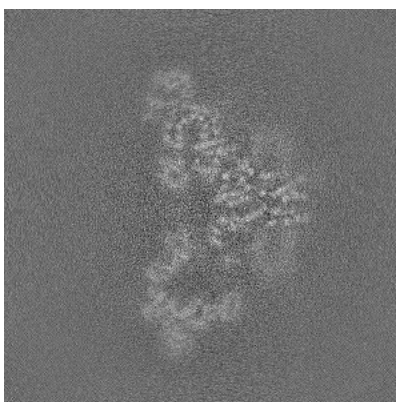


Z Index: 229

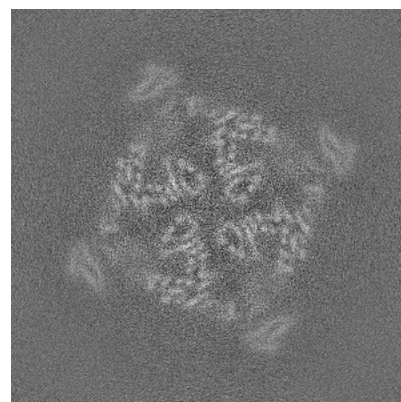
6.3.2 Raw map



X Index: 271



Y Index: 241

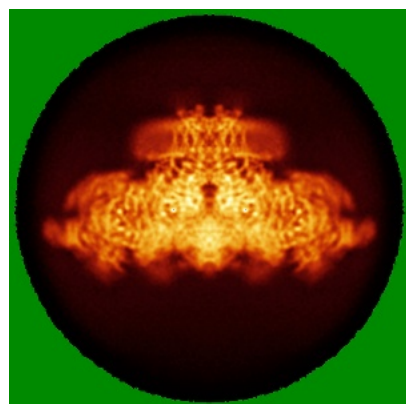


Z Index: 268

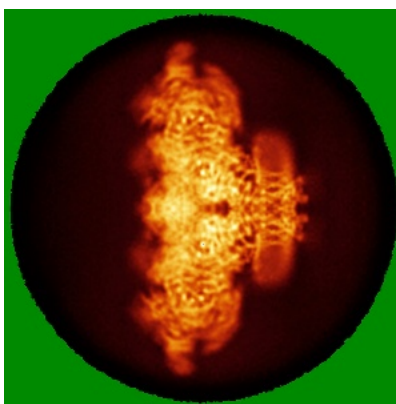
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

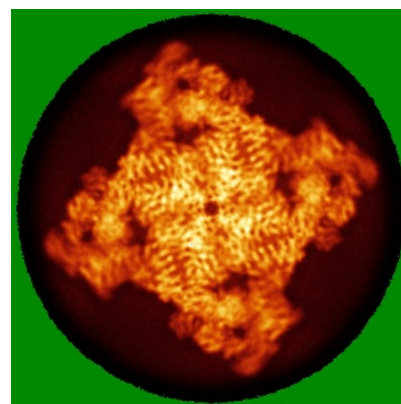
6.4.1 Primary map



X

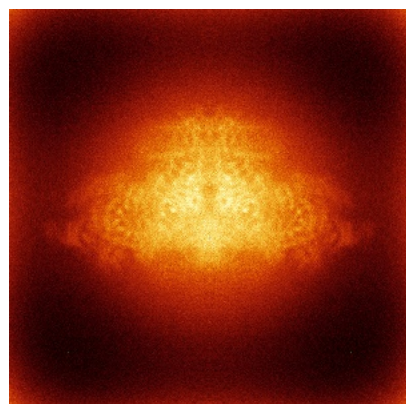


Y

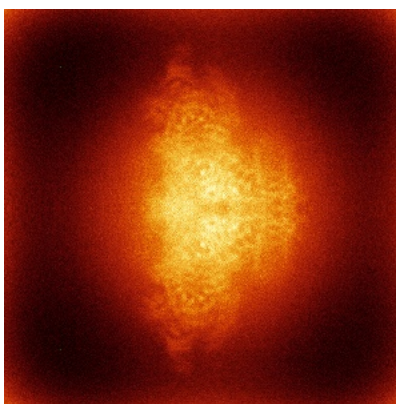


Z

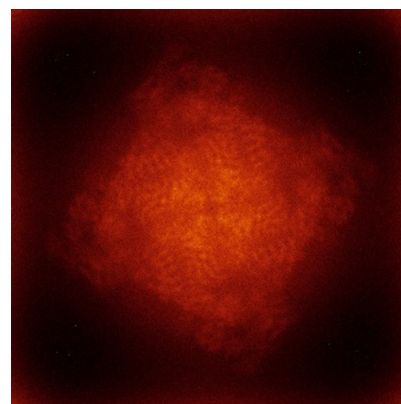
6.4.2 Raw map



X



Y

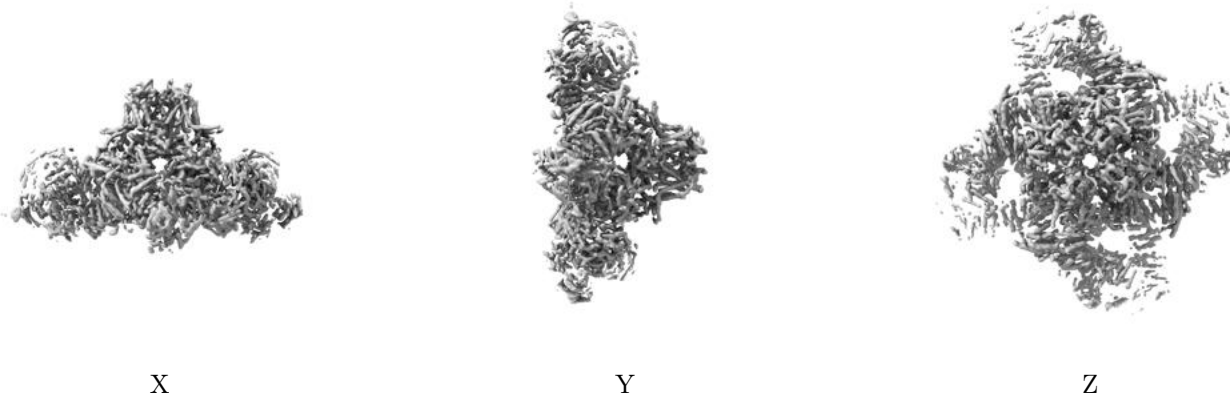


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

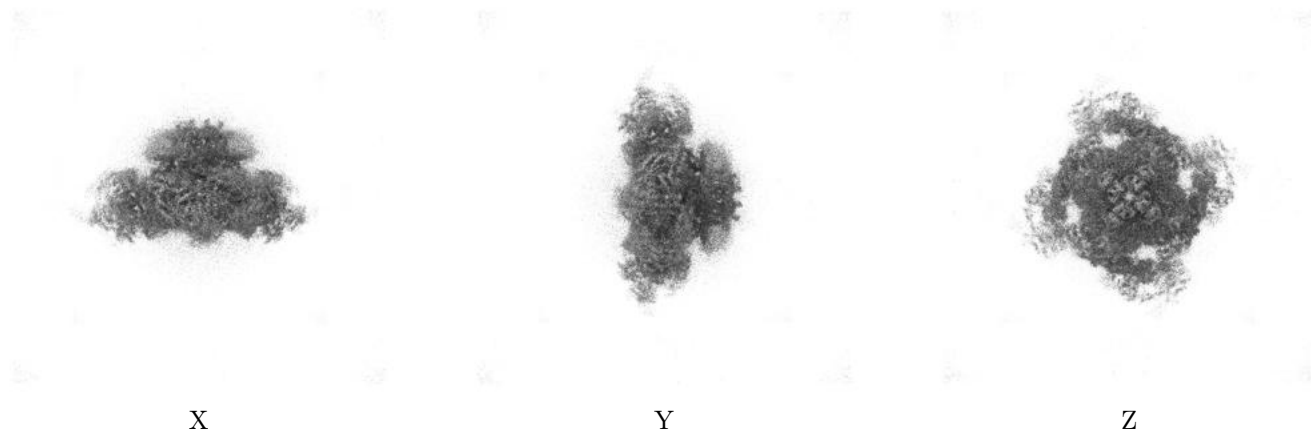
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.1. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

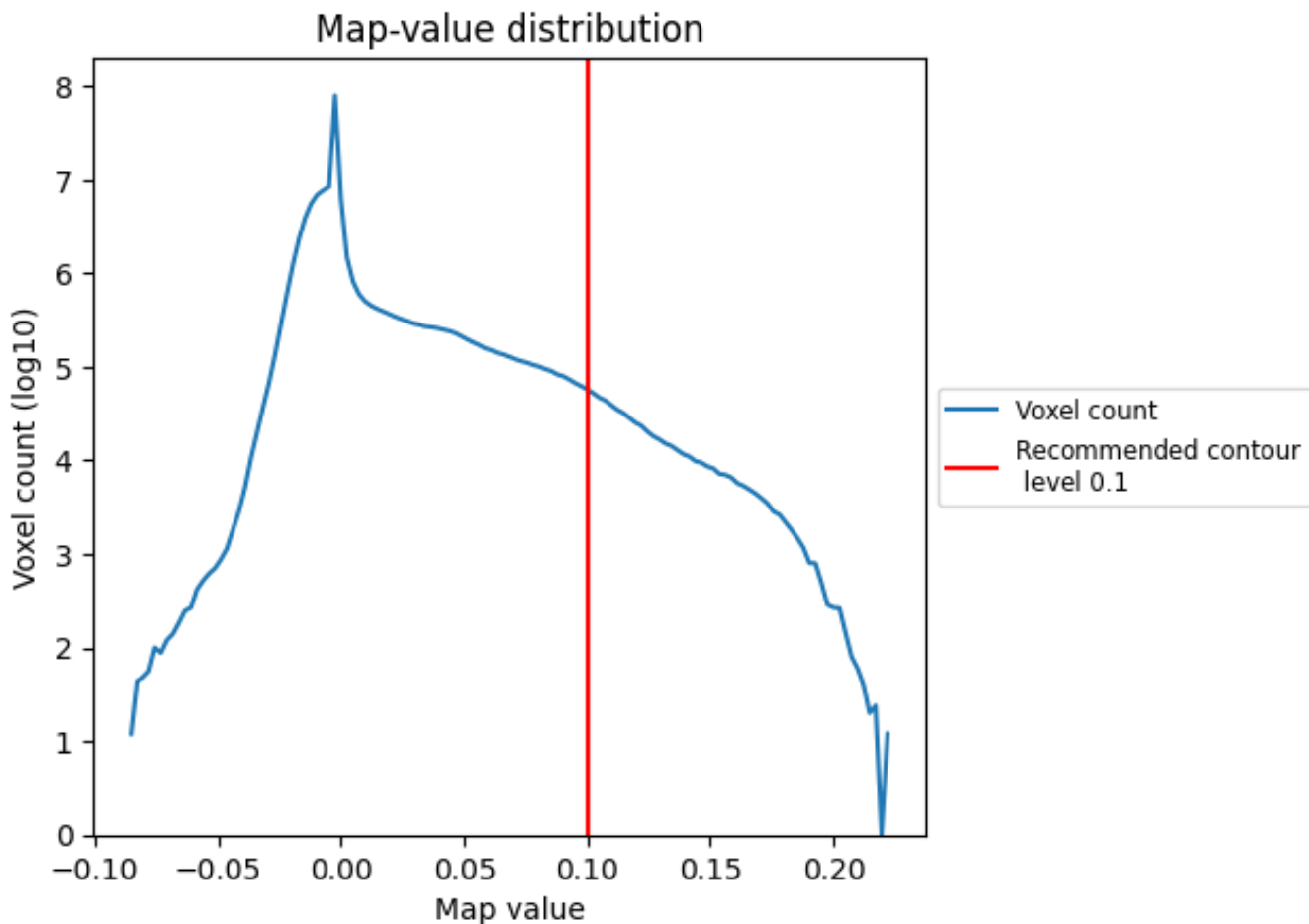
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

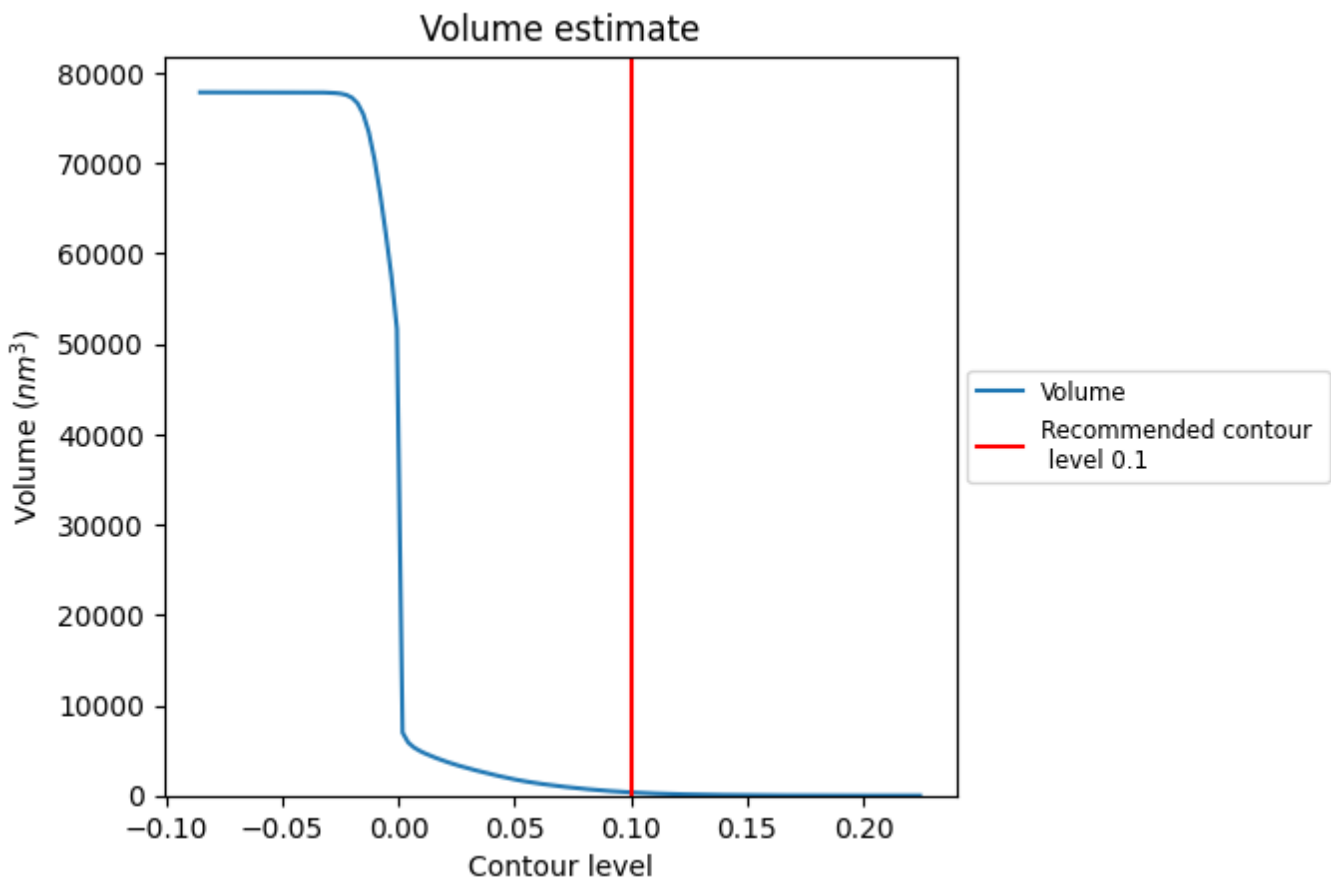
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

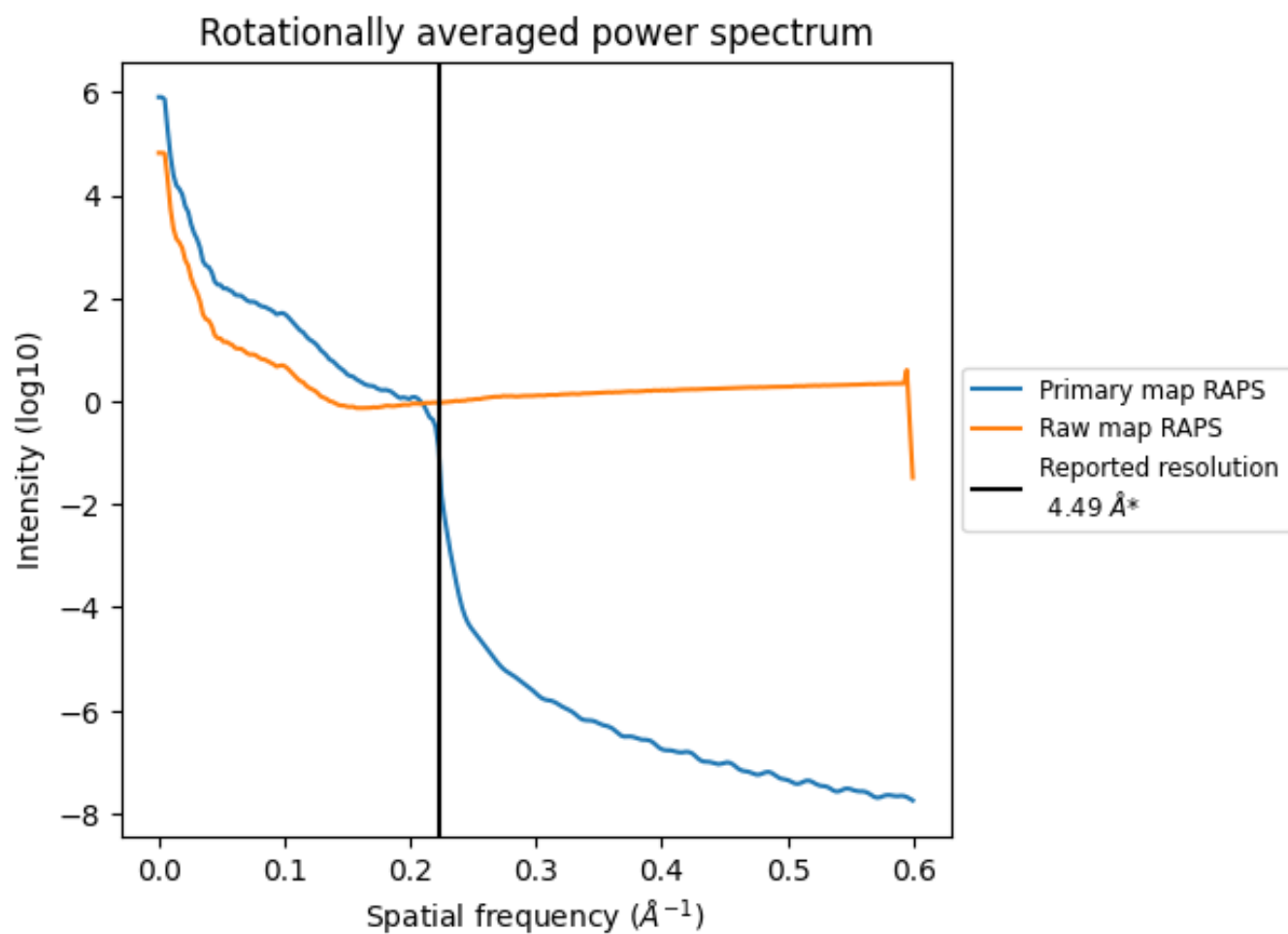
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 352 nm³; this corresponds to an approximate mass of 318 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [\(i\)](#)

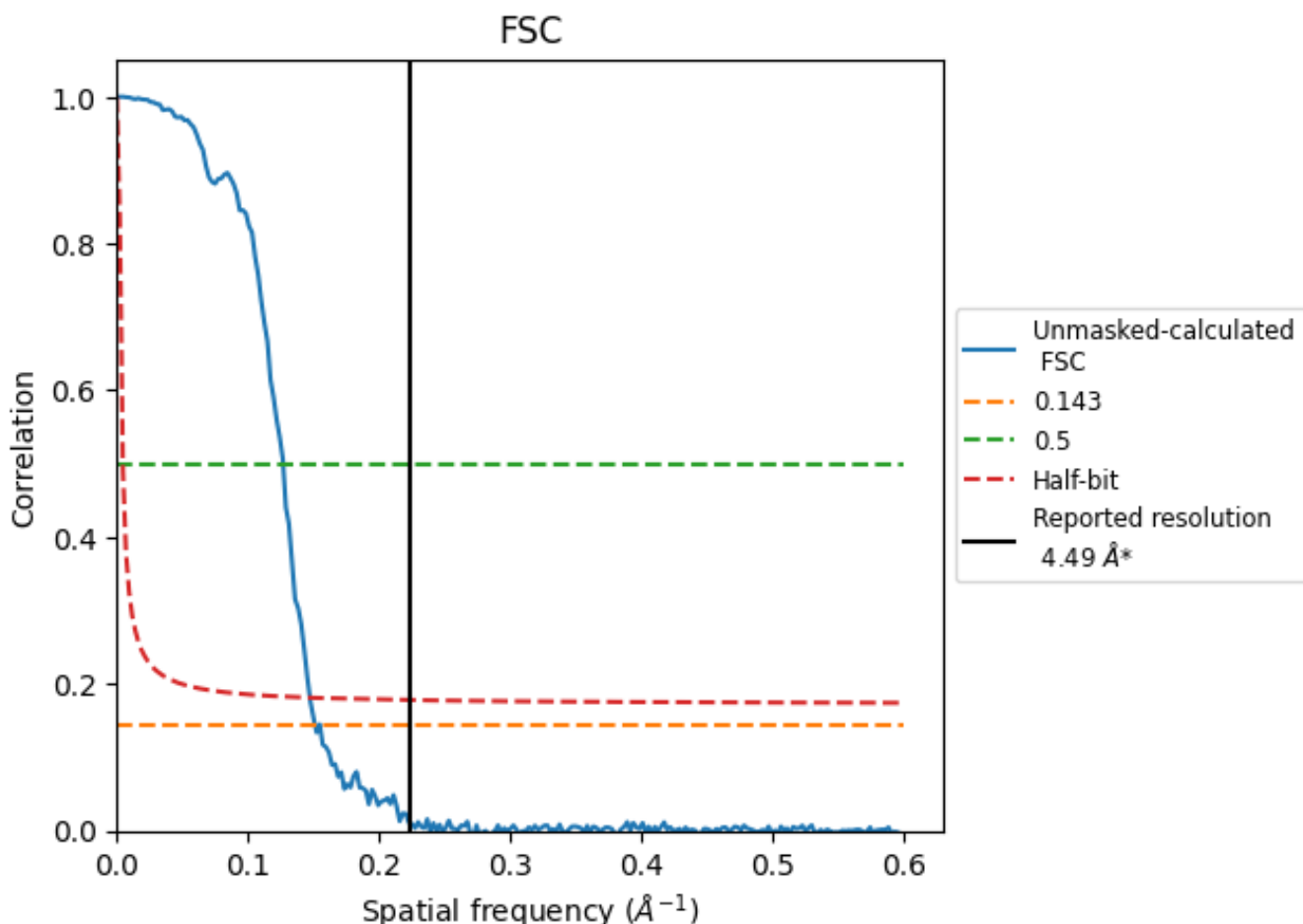


*Reported resolution corresponds to spatial frequency of 0.223 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.223 Å⁻¹

8.2 Resolution estimates [i](#)

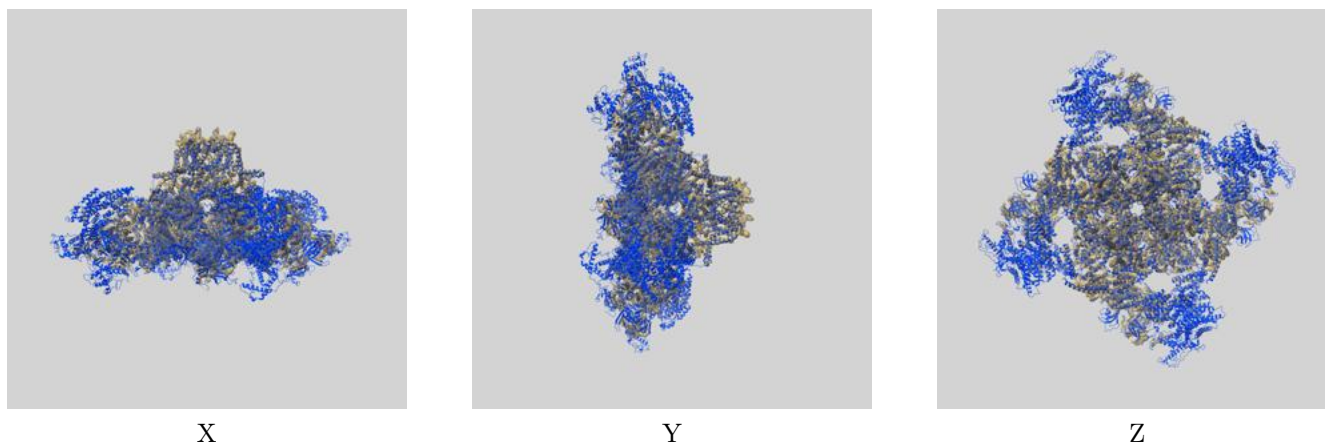
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.49	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	6.62	7.89	6.80

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 6.62 differs from the reported value 4.49 by more than 10 %

9 Map-model fit [i](#)

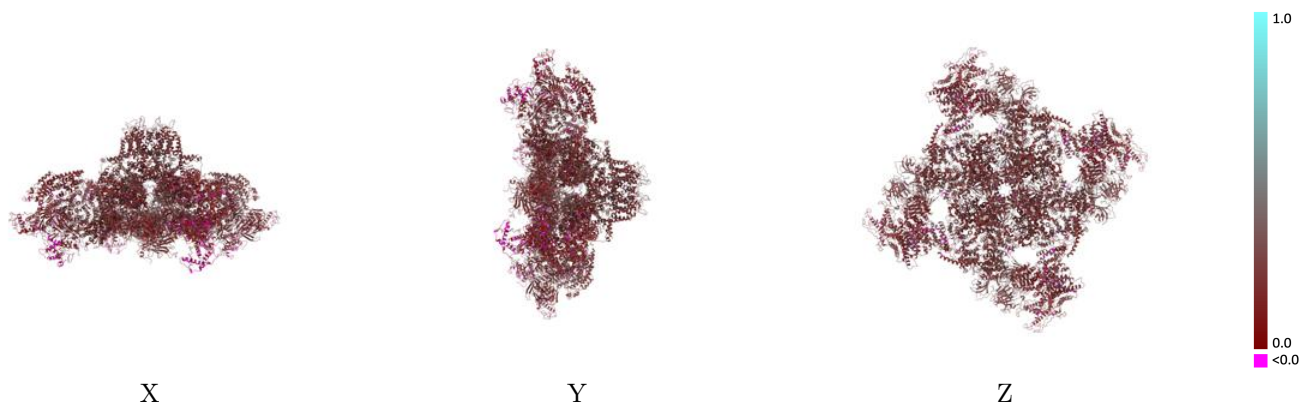
This section contains information regarding the fit between EMDB map EMD-47388 and PDB model 9E1B. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



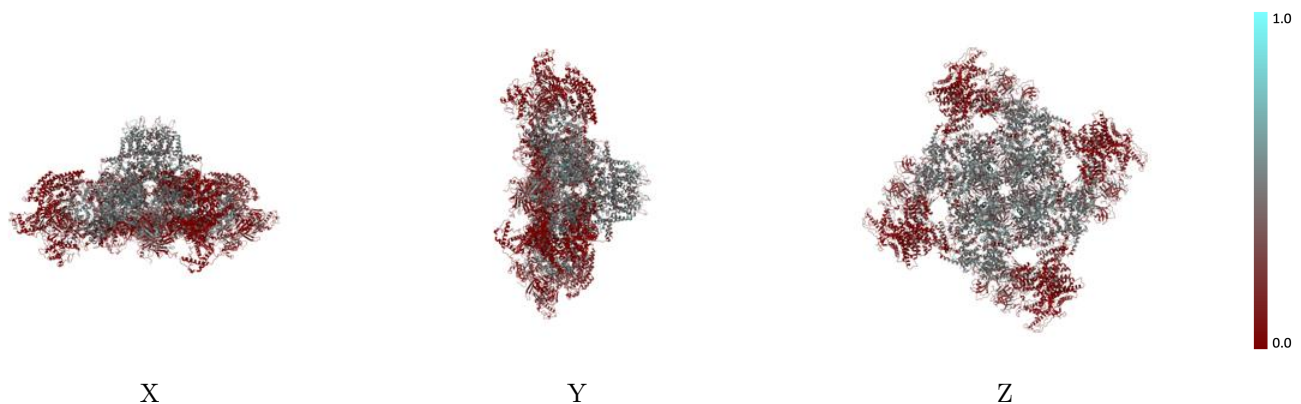
The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



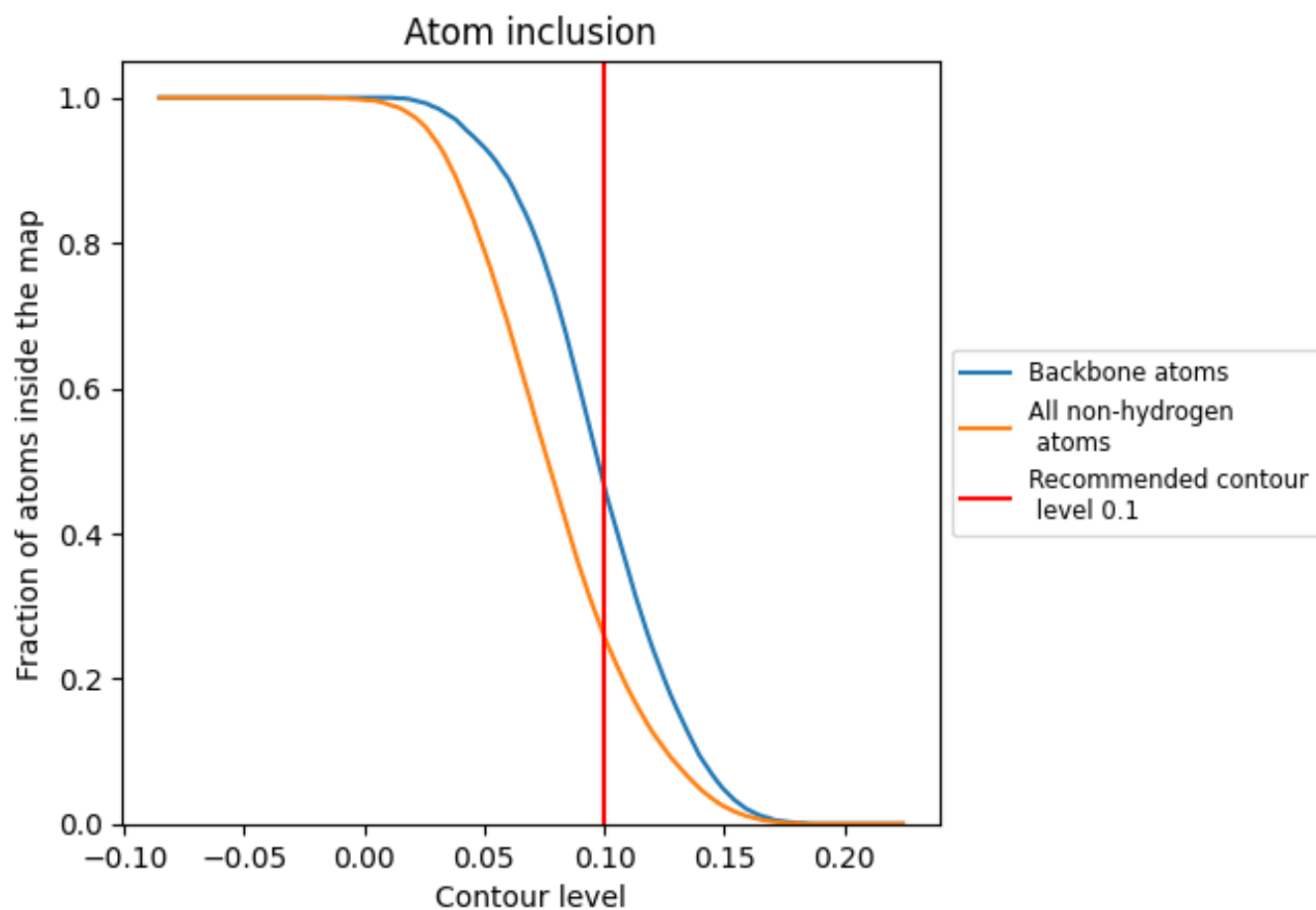
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.1).



















9.4 Atom inclusion [i](#)



At the recommended contour level, 47% of all backbone atoms, 26% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (0.1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.2590	 0.2100
A	 0.2640	 0.2100
B	 0.2640	 0.2090
C	 0.2640	 0.2090
D	 0.2640	 0.2090
E	 0.0360	 0.2600
F	 0.0310	 0.2560
G	 0.0320	 0.2630
H	 0.0360	 0.2580

