



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 10:18 AM UTC

PDB ID : 4V8V / pdb_00004v8v
EMDB ID : EMD-2358
Title : Structure and conformational variability of the Mycobacterium tuberculosis fatty acid synthase multienzyme complex
Authors : Ciccarelli, L.; Connell, S.R.; Enderle, M.; Mills, D.J.; Vonck, J.; Grininger, M.
Deposited on : 2013-04-18
Resolution : 20.00 Å(reported)
Based on initial model : 4B3Y

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.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

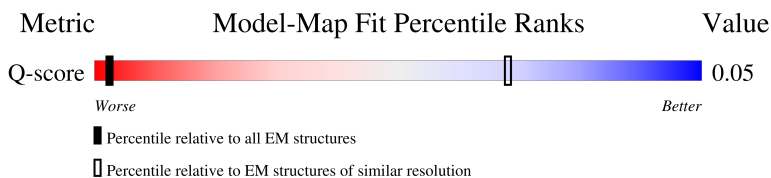
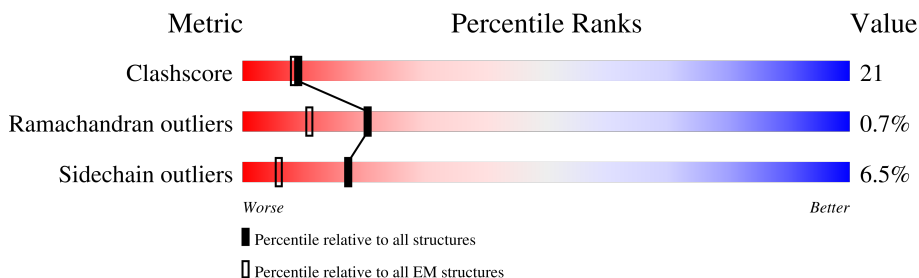
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 20.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	28 (19.50 - 20.50)

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	3089	
1	B	3089	
1	C	3089	
1	D	3089	

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Mol	Chain	Length	Quality of chain
1	E	3089	56% 32% 9%
1	F	3089	5% 56% 32% 9%

2 Entry composition [i](#)

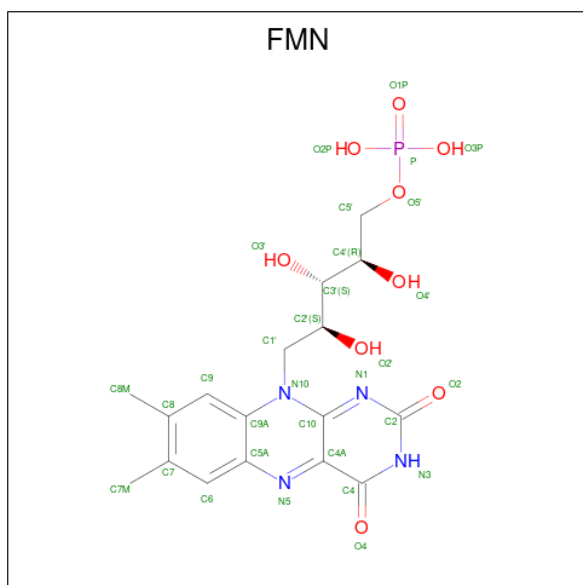
There are 2 unique types of molecules in this entry. The entry contains 125856 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 TYPE-I FATTY ACID SYNTHASE.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	2822	Total	C	N	O	S	0	0
			20945	13219	3662	3998	66		
1	B	2822	Total	C	N	O	S	0	0
			20945	13219	3662	3998	66		
1	C	2822	Total	C	N	O	S	0	0
			20945	13219	3662	3998	66		
1	D	2822	Total	C	N	O	S	0	0
			20945	13219	3662	3998	66		
1	E	2822	Total	C	N	O	S	0	0
			20945	13219	3662	3998	66		
1	F	2822	Total	C	N	O	S	0	0
			20945	13219	3662	3998	66		

- Molecule 2 is FLAVIN MONONUCLEOTIDE (CCD ID: FMN) (formula: $C_{17}H_{21}N_4O_9P$).



Mol	Chain	Residues	Atoms					AltConf
2	A	1	Total	C	N	O	P	0
			31	17	4	9	1	

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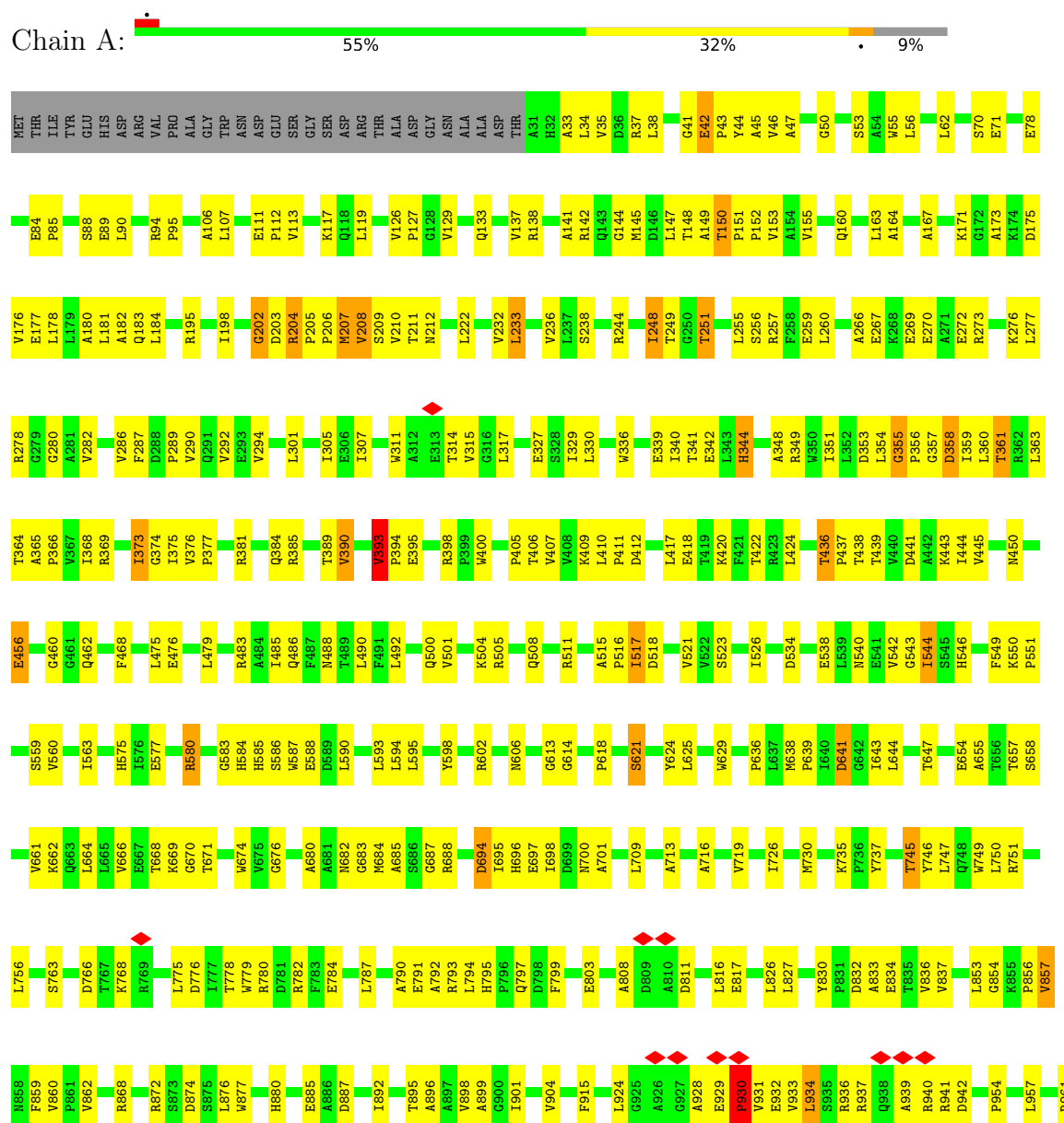
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Mol	Chain	Residues	Atoms					AltConf
2	B	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	C	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	D	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	E	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	F	1	Total	C	N	O	P	0
			31	17	4	9	1	

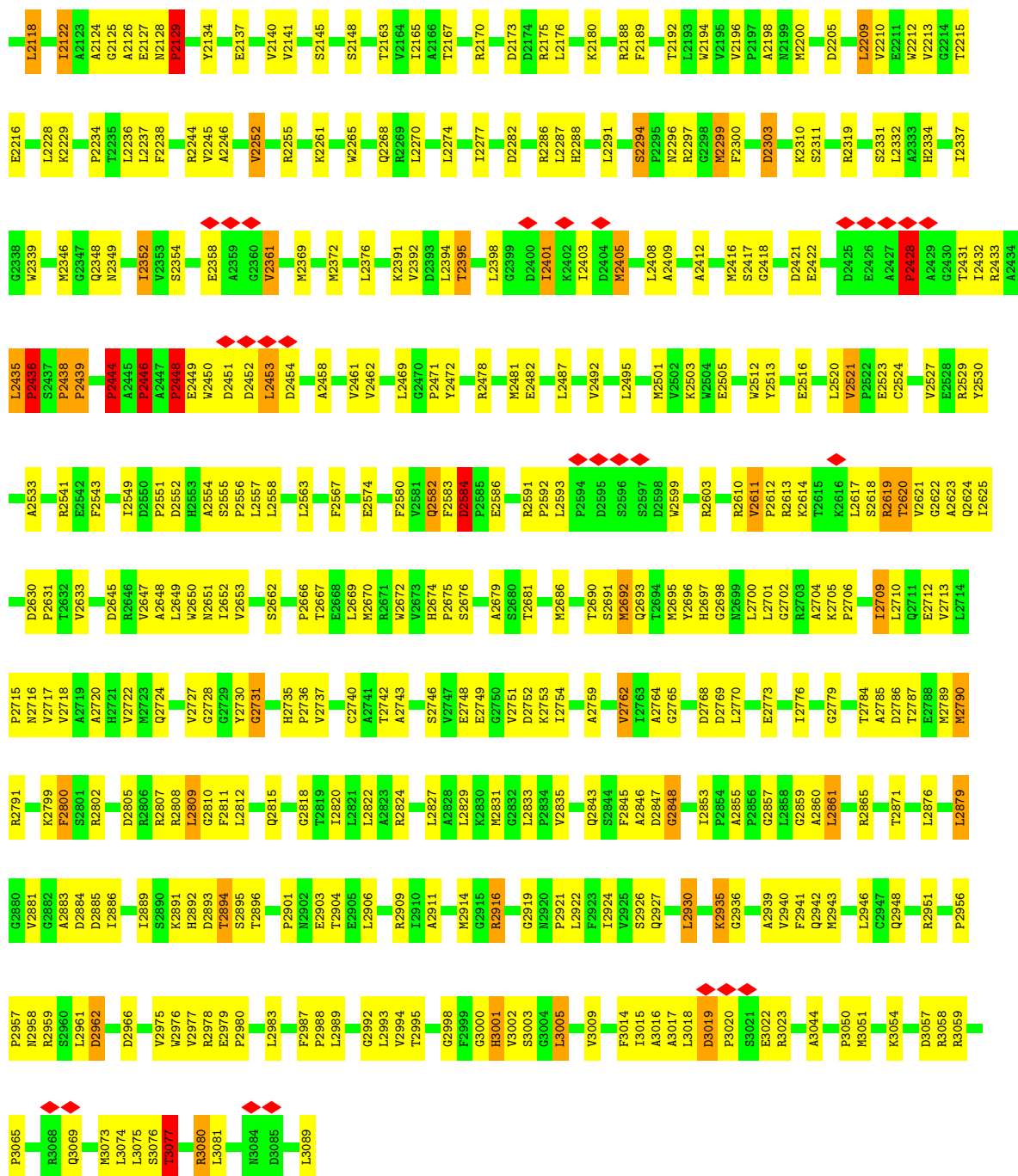
3 Residue-property plots

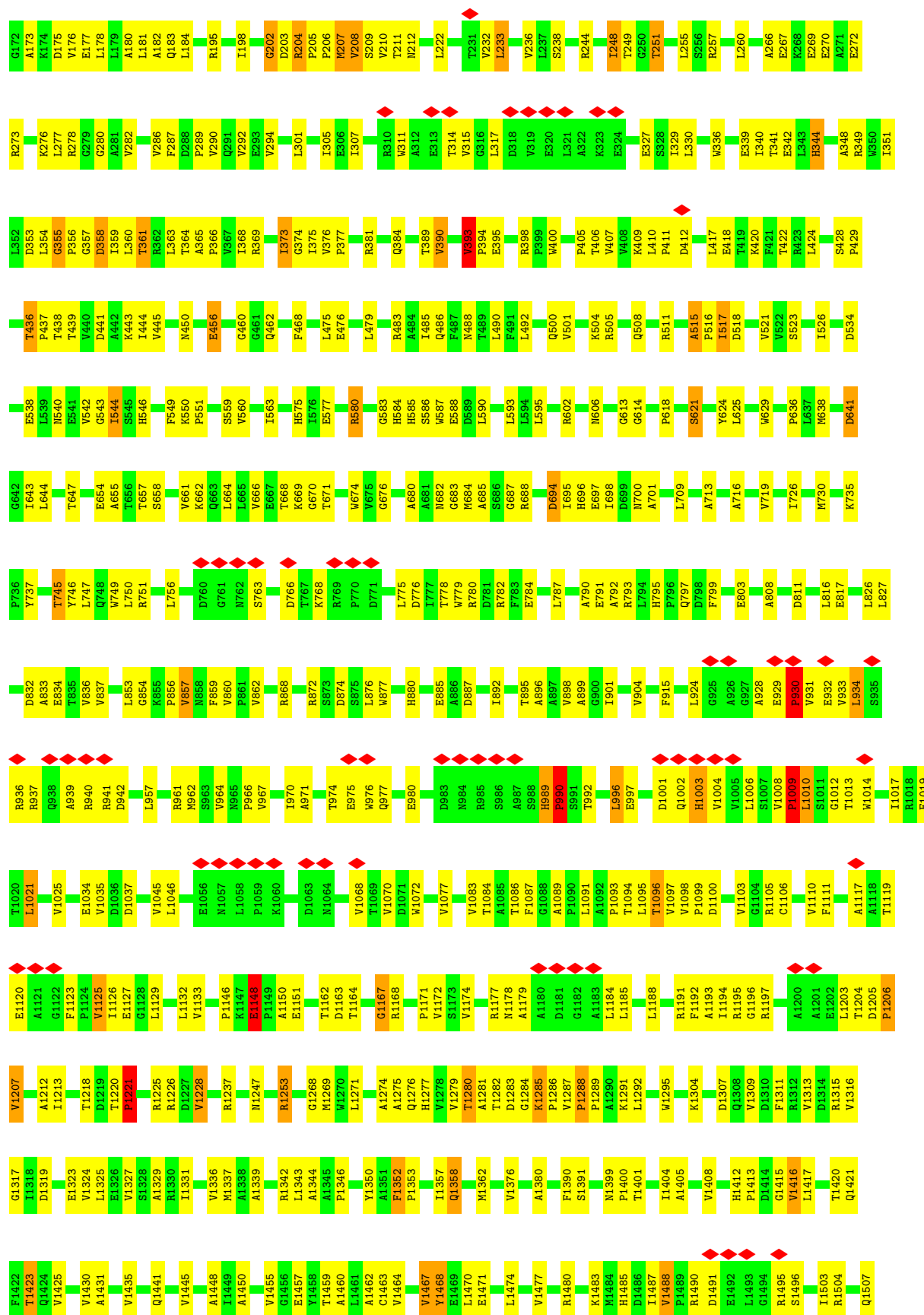
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: TYPE-I FATTY ACID SYNTHASE

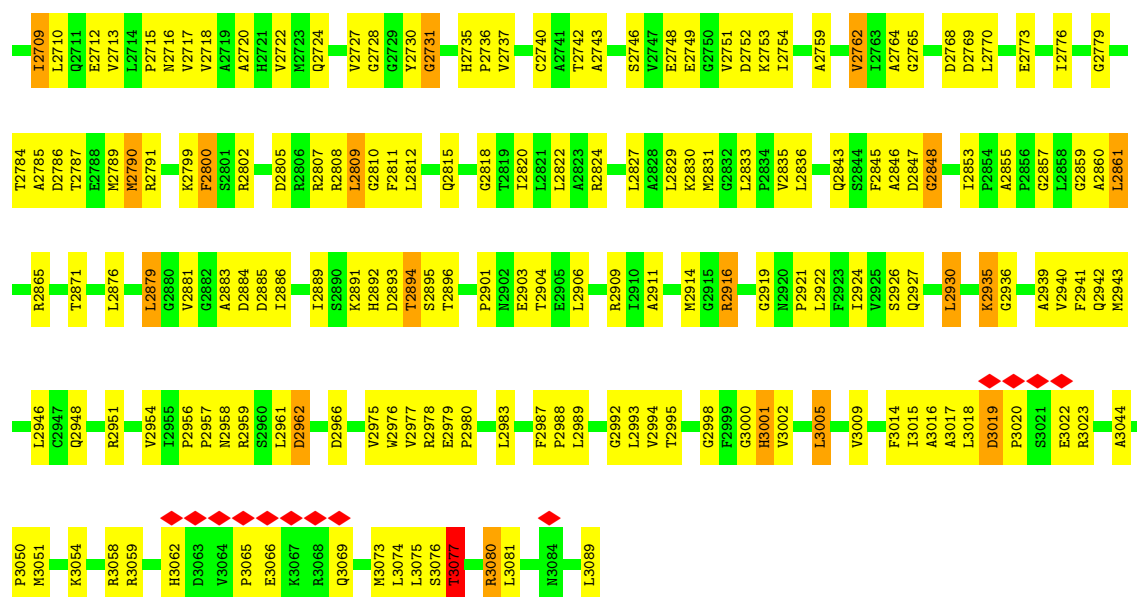




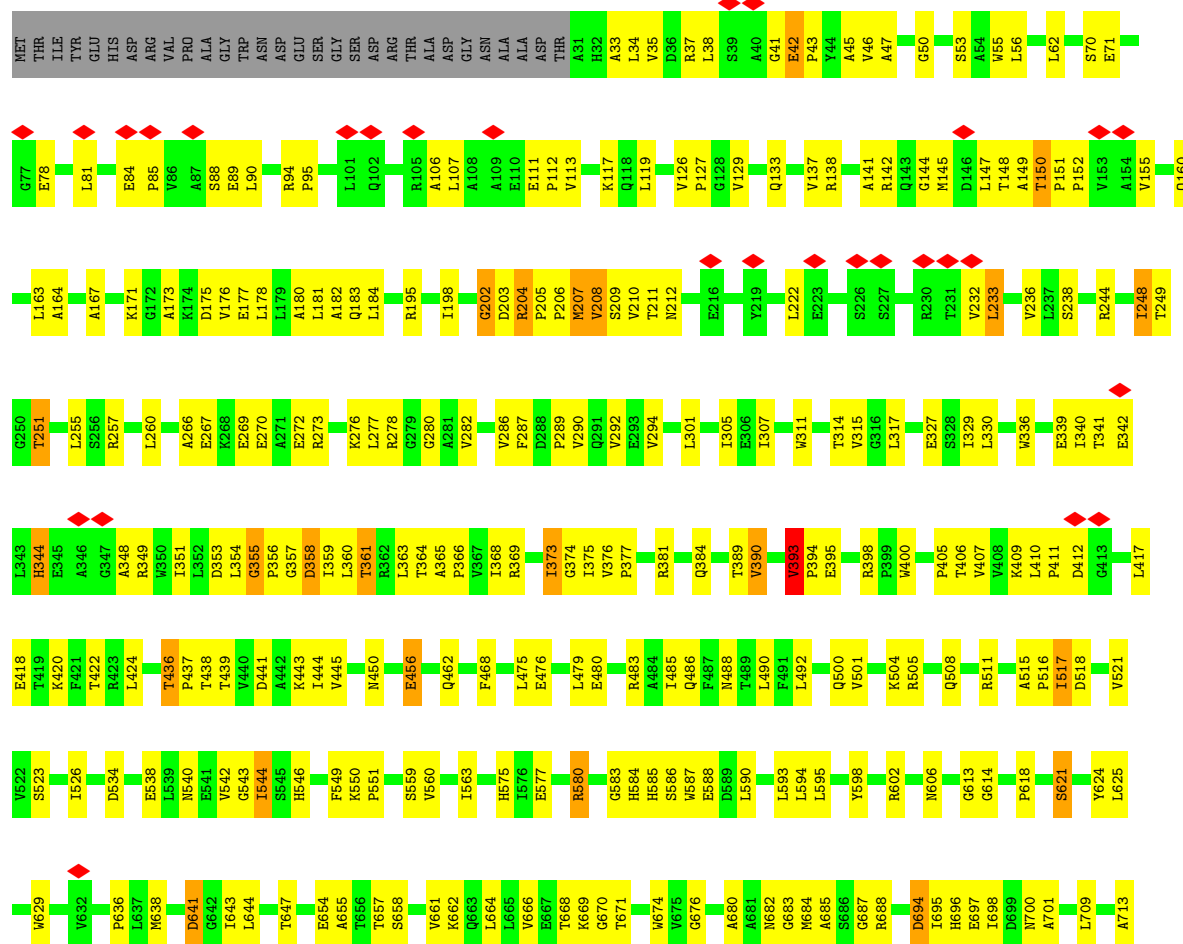




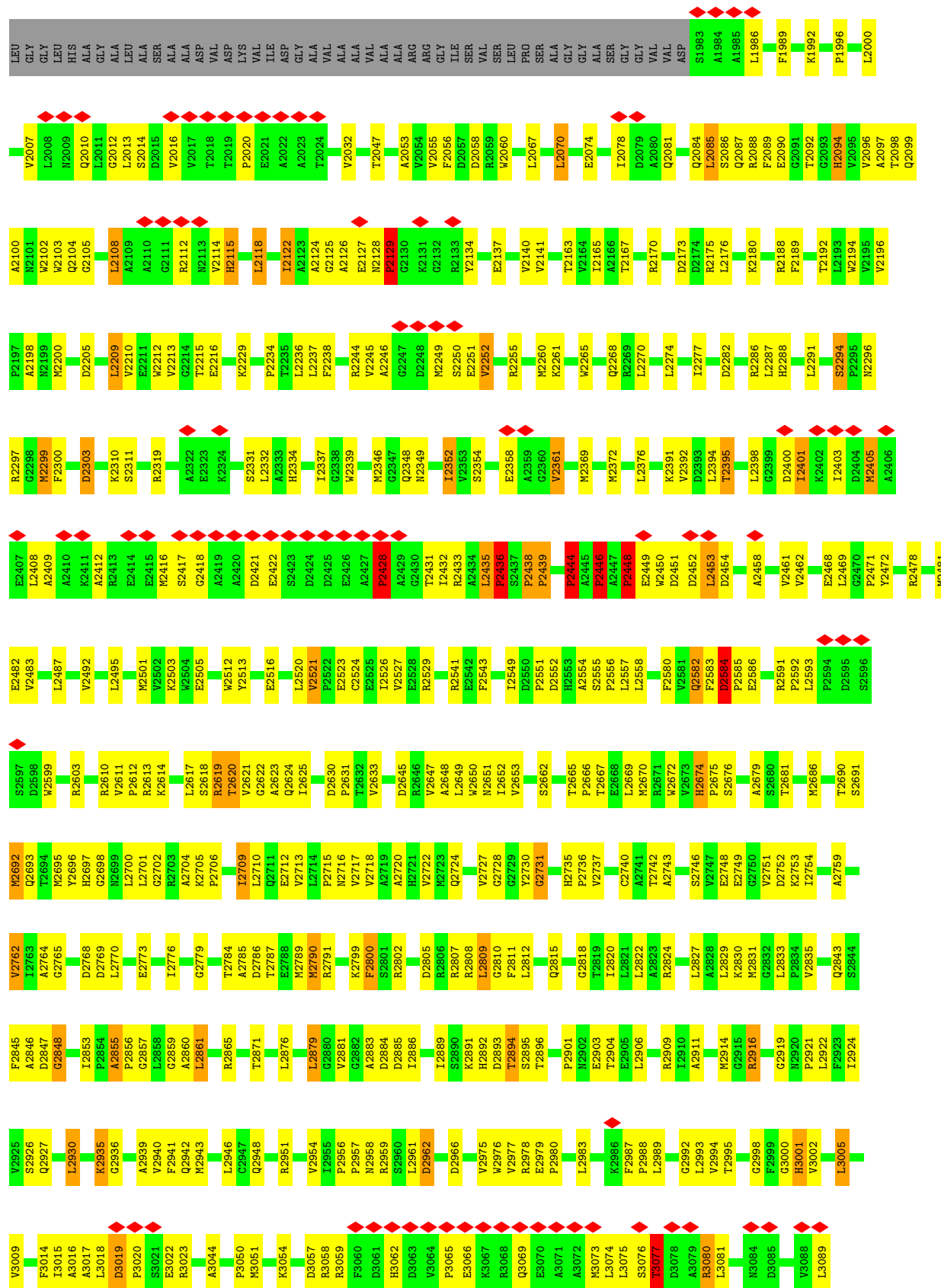




• Molecule 1: TYPE-I FATTY ACID SYNTHASE

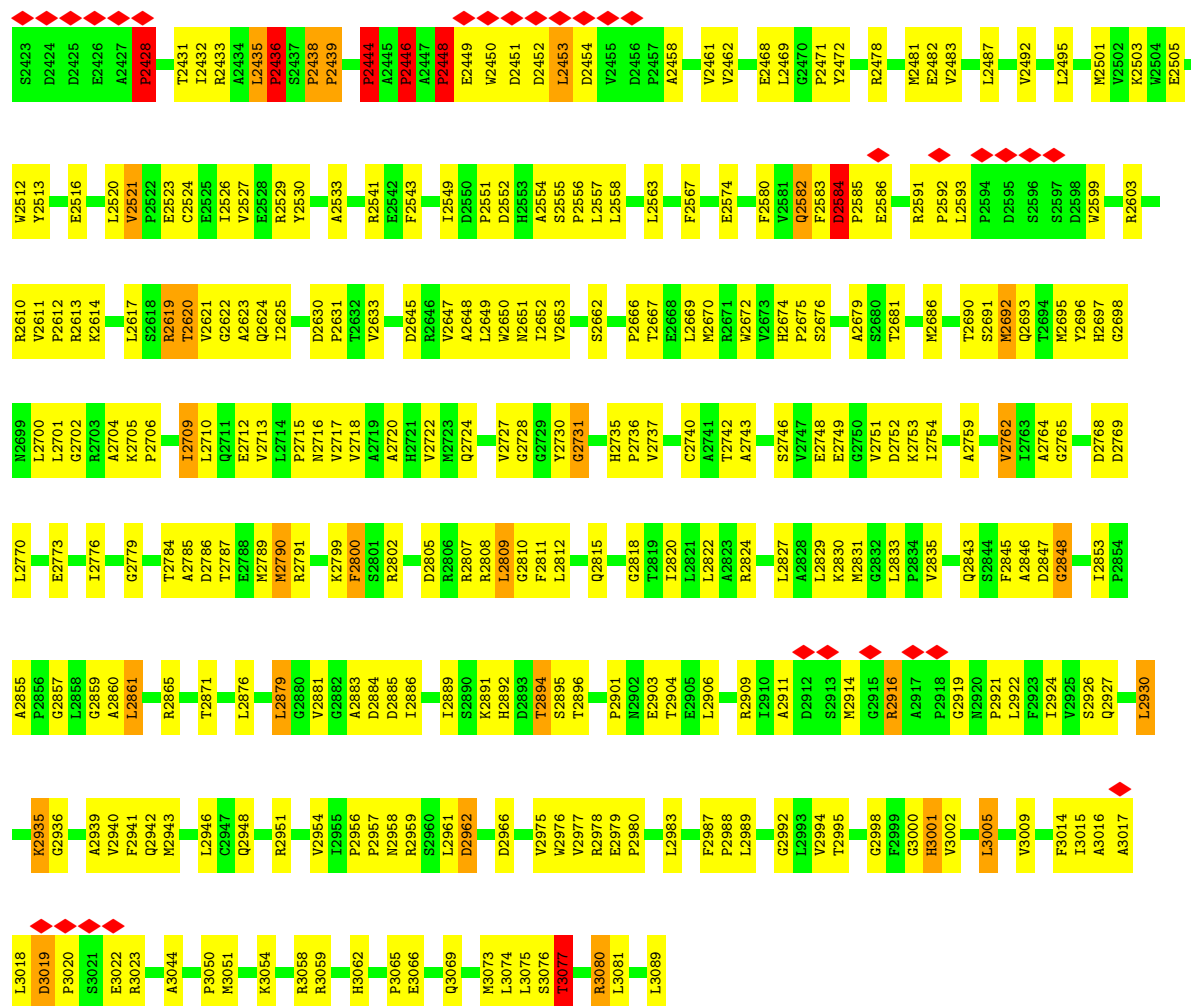


[illegible]



• Molecule 1: TYPE-I FATTY ACID SYNTHASE



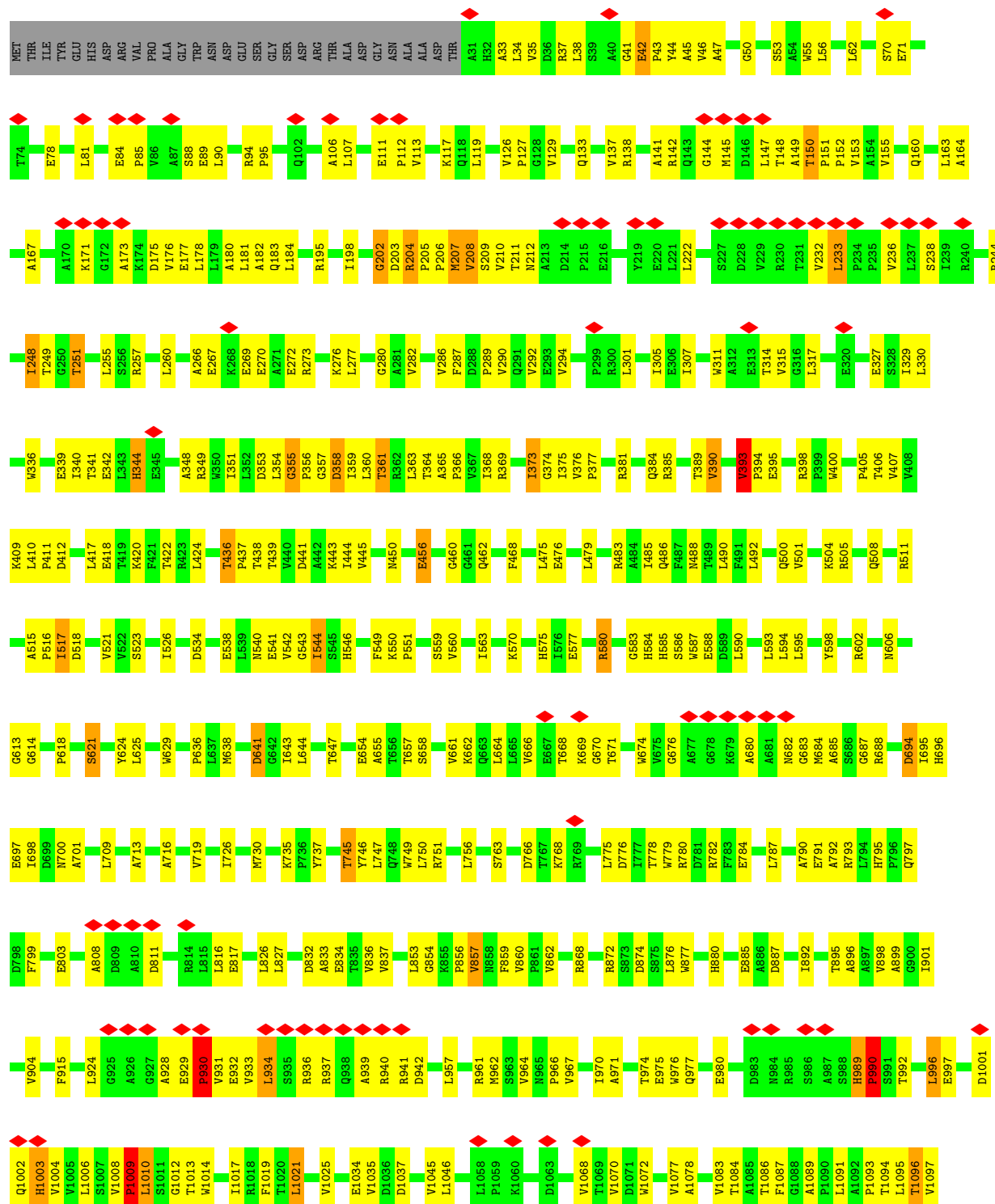


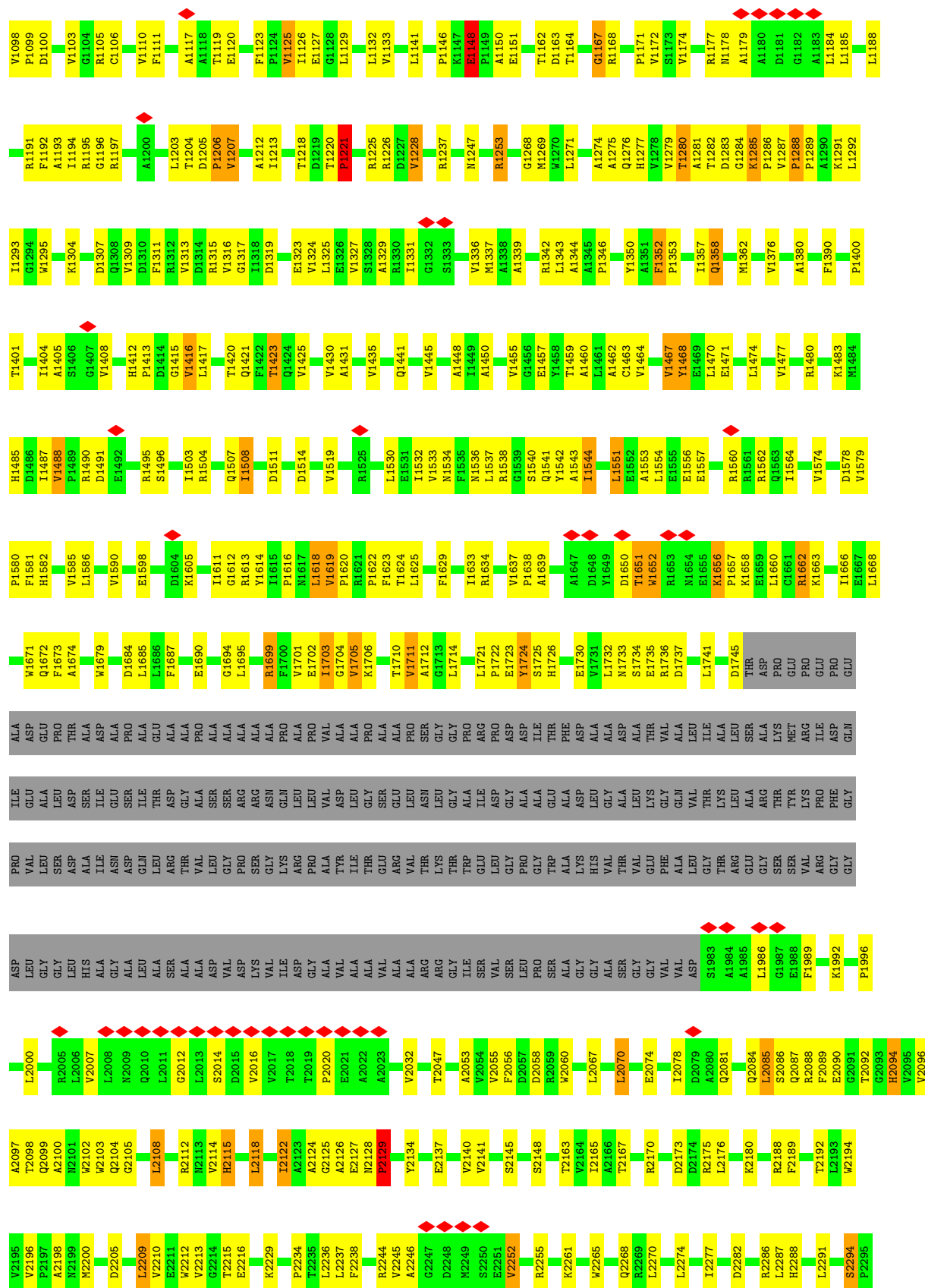
L1714	P1620	F1529	G1456	R1253	R1342	R1449	V1045	R961	F859	S763	K662	I563	Q462
L1721	R1621	L1530	E1457	G1288	L1343	A1150	L1046	M962	V860	D766	Q663	I563	F468
P1722	F1622	E1531	Y1458	G1269	A1344	E1151	L1058	S963	P861	T767	L664	H576	L476
E1723	F1623	T1459	A1460	W1270	P1346	D1162	V1068	N965	B862	K768	L665	E577	E475
L1625	L1625	M1534	L1461	L1271	P1346	T1164	V1068	P966	B868	R769	E667	E577	L476
S1725	R1634	F1535	A1462	A1274	Y1350	A1462	T1069	V967	R872	P770	T668	R580	L479
E1730	P1637	N1536	C1463	A1275	A1351	G1167	T1070	T970	R872	L775	G670	G583	R483
L1731	R1638	R1537	V1464	H1277	P1353	R1168	W1072	A971	S873	D776	T671	H584	L483
N1733	A1639	G1539	V1467	V1279	I1357	P1171	V1077	T974	S875	T777	W674	H585	L485
S1734	S1640	S1540	E1468	V1278	Q1358	W1172	V1077	W976	L876	T778	W675	S586	Q486
E1735	Q1541	Y1542	E1469	T1280	S1173	S1173	V1083	Q977	W877	W779	G676	E588	F487
R1736	Y1542	E1471	L1470	W1280	V1174	V1174	V1084	E980	H880	R781	A680	D589	N488
D1737	A1543	L1474	L1474	T1282	M1362	A1281	A1085	P983	T882	F782	A681	L590	T489
L1741	I1544	L1477	V1477	G1285	V1376	D1283	T1086	N984	E885	W882	N682	L593	L490
D1745	L1551	E1552	K1285	A1179	A1380	N1178	F1087	R985	A886	E784	G683	L594	L492
THR	E1553	L1554	P1286	A1179	D1381	A1179	G1088	R986	D887	L787	M684	L595	
ASP	L1555	E1556	P1287	D1181	F1390	A1180	A1089	A987	I892	A790	S686	Y598	Q500
GLU	C1661	E1557	P1289	G1182	S1391	D1181	P1090	A987	A896	A792	G687	R602	V501
PRO	R1662	E1558	A1290	A1183	P1400	A1183	L1092	S988	V898	R793	R688	R602	K504
GLU	K1663	E1559	L1292	L1185	T1401	L1185	T1095	H989	G900	L794	D684	N606	R505
PRO	I1666	H1487	W1295	L1188	W1295	L1188	T1096	P990	I901	H795	I695	Q508	Q508
GLU	E1667	V1488	K1304	R1191	F1192	F1192	P1097	S991	V904	Q797	I696	G613	R511
ALA	L1668	P1489	K1304	F1193	G1104	A1194	C1106	T992	F915	F796	I697	G614	
ASP	Q1663	R1490	K1304	R1195	R1105	R1195				Q797	I698	P618	A515
GLU	I1664	D1491	D1307	L1203	V1110	L1203				F799	D699	P618	P516
PRO	Q1672	R1673	Q1308	T1204	F1111	D1204				E803	N700	S621	P516
ALA	A1674	S1496	P1309	D1205	C1106	T1205				A808	A701	D621	D518
ALA	W1679	L1500	D1310	P1206		P1206				D809	L709	L625	V521
D1684	F1681	I1503	V1313	V1207	A1117	V1207				D811	A713	W629	V521
L1685	H1582	R1504	D1314	V1207	A1118	V1207				R814	A716	A630	S523
L1686	S1583	Q1507	V1315	P1207	A1119	P1207				L815	V719	E631	I526
F1687	S1584	I1508	V1316	V1207	E1121	V1207				L816	I726	P636	D634
ALA	L1585	D1509	V1317	V1207	A1122	V1207				L817	P637	L637	E538
ALA	L1586	L1510	D1318	V1207	G1122	V1207				L826	M638	P639	L539
ALA	V1590	D1511	D1319	V1207	F1124	V1207				L827	P639	N540	N540
ALA	E1598	D1514	E1323	V1207	V1125	V1207				L832	K735	I640	E541
ALA	E1598	D1514	L1324	V1207	V1126	V1207				D833	P736	I643	V542
ALA	K1605	D1517	L1325	V1207	E1127	V1207				A833	Y745	L644	I544
ALA	D1606	F1518	E1326	V1207	V1128	V1207				E834	Y746	T647	H546
VAL	P1607	V1519	V1327	V1207	V1129	V1207				L835	Q748	E654	F549
ALA	T1611	A1520	A1329	V1207	L1132	V1207				V836	Q748	A655	K550
ALA	G1612	E1521	R1330	V1207	V1133	V1207				V837	L750	T657	P551
ALA	R1613	I1522	I1331	V1207	V1133	V1207				L853	R751	S658	S559
ALA	Y1614	S1523	V1336	V1207	V1133	V1207				K855	L756	V661	V560
ALA	L1615	E1524	M1337	V1207	V1133	V1207				G854	L756		
PRO	L1616	R1525	A1338	V1207	V1133	V1207				V857	L756		
SER	P1617	T1526	A1339	V1207	V1133	V1207				V858	L756		
GLY	L1618	G1527	M1247	V1207	V1133	V1207							
GLY	V1619	E1528	P1248	V1207	V1133	V1207							

F2987	F2988	L2989	G2992	L2993	V2994	T2995	G2998	G2999	G3000	H3001	V3002	L3005	V3009	F3014	I3015	A3016	A3017	L3018	D3019	F3020	S3021	E3022	R3023	A3044	P3050	K3051	K3054	R3058	R3059	D3061	H3062	D3063	V3064	P3065	E3066	K3067	Q3069	K3073	L3074	L3075	S3076	T3077	R3080	L3081								
E2903	T2904	E2905	L2906	R2909	I2910	A2911	M2914	G2915	R2916	G2919	I2920	L2922	F2923	L2924	V2925	S2926	G2927	Q2927	L2930	K2936	G2936	A2939	V2940	F2941	Q2942	M2943	L2946	C2947	Q2948	R2951	V2954	L2955	P2956	P2957	N2958	R2959	S2960	L2961	D2962	D2966	V2975	V2976	V2977	R2978	E2979	P2980	L2983					
L2820	L2821	L2822	R2824	L2827	K2828	L2829	K2830	M2831	L2832	L2833	F2834	L2835	L2836	Q2843	F2844	F2845	A2846	D2847	G2848	L2853	F2854	A2855	L2856	G2857	L2858	K2859	L2860	L2861	R2865	L2871	L2876	L2879	V2880	V2881	G2882	A2883	D2884	D2885	L2886	L2889	S2890	K2891	H2892	L2893	F2894	S2895	T2896	P2901	N2902			
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E2668	L2669	M2670	L2671	V2672	L2673	H2674	F2675	Q2682	S2676	A2679	S2680	T2681	M2686	T2690	S2691	M2692	Q2693	L2694	M2695	Y2696	H2697	G2698	M2699	L2700	L2701	F2702	G2703	A2704	K2705	F2706	L2709	A2785	D2786	T2787	E2788	M2789	R2790	R2791	K2799	F2800	S2801	R2802	D2805	R2806	R2807	R2808	G2810	F2811	L2812	Q2815	G2818	T2819
F2567	L2469	G2470	F2471	Y2472	L2478	R2478	M2481	E2482	Y2483	L2487	V2492	L2495	M2501	T2502	F2503	S2504	S2505	V2512	Y2513	D2514	E2516	L2520	V2521	E2523	C2524	L2526	V2527	E2528	R2529	Y2530	A2533	R2541	E2542	F2543	D2645	R2646	A2648	L2649	M2650	N2651	L2652	V2653	S2662	P2666	T2667							
K2391	V2392	D2393	T2394	T2395	L2398	I2401	K2402	L2403	D2404	M2405	A2406	E2407	L2408	A2409	A2412	M2416	S2417	G2418	A2419	A2420	D2421	E2422	S2423	D2424	D2425	E2426	A2427	P2428	T2431	L2432	R2433	A2434	L2435	S2437	P2438	P2439	P2444	A2445	P2446	A2447	P2448	E2449	V2450	D2451	D2452	L2453	D2454	A2458	V2461	V2462		
K2261	W2265	L2266	Q2268	L2269	L2270	L2274	L2277	D2282	R2286	H2288	L2291	S2294	P2295	V2296	R2297	G2298	M2299	F2300	D2303	K2310	S2311	R2319	S2331	L2332	L2333	H2334	L2337	G2338	W2339	Q2348	L2236	L2237	F2238	R2244	V2245	A2246	M2249	E2251	V2252	M2372	L2376											
T2163	V2164	L2165	A2166	T2167	R2170	D2173	R2175	L2176	K2180	R2188	F2189	T2192																																								



• Molecule 1: TYPE-I FATTY ACID SYNTHASE





L3005	V3009	F3014	I3015	A3016	A3017	L3018	D3019	P3020	S3021	E3022	R3023	A3044	P3050	M3051	K3054	D3057	R3058	R3059	H3062	P3065	E3066	Q3069	M3073	L3074	L3075	S3076	R3077	R3080	L3081	L3089																							
V2835	Q2843	I2924	V2925	S2926	Q2927	L2930	K2935	G2936	A2939	V2940	F2941	Q2942	M2943	L2946	C2947	Q2948	R2951	V2954	I2955	P2956	P2957	N2958	R2959	S2960	L2961	D2962	D2966	V2975	W2976	V2977	R2978	E2979	P2980	L2983	F2987	P2988	L2989	G2992	L2993	V2994	T2995	G2998	F2999	G3000	H3001	V3002							
I2754	A2759	V2762	I2763	A2764	G2765	D2768	D2769	L2770	E2773	I2776	G2779	T2784	A2785	D2786	T2787	E2788	M2789	M2790	R2791	K2799	V2717	F2800	S2801	R2802	D2805	R2806	R2807	L2808	L2809	G2810	F2811	L2812	Q2815	G2818	T2819	I2820	L2821	L2822	A2823	R2824	L2827	A2828	L2829	K2830	M2831	G2832	P2834						
M2886	T2890	S2891	M2892	Q2893	T2894	M2895	Y2896	G2897	G2898	H2899	L2700	L2701	G2702	R2703	A2704	K2705	P2706	I2709	L2710	Q2711	E2712	V2713	L2714	P2715	M2716	V2717	V2718	A2719	A2720	H2721	V2722	M2723	Q2724	V2727	G2728	G2729	Y2730	G2731	H2735	P2736	V2737	C2740	A2741	T2742	A2743	S2746	V2747	E2748	E2749	G2750	V2751	D2752	K2753
P2592	L2593	P2594	D2595	S2596	S2597	D2598	W2599	R2603	R2610	V2611	P2612	R2613	K2614	L2617	S2618	R2619	T2620	V2621	G2622	A2623	Q2624	I2625	D2630	P2631	T2632	V2633	D2645	R2646	V2647	A2648	L2649	W2650	N2651	I2652	V2653	S2662	P2666	E2668	L2669	M2670	R2671	W2672	V2673	H2674	P2675	S2676	A2679	D2681					
M2501	V2502	K2503	M2504	E2505	W2512	Y2513	D2514	T2515	E2516	L2520	V2521	P2522	E2523	C2524	V2527	E2528	R2529	R2541	G2542	F2543	I2549	D2550	P2551	D2552	H2553	A2554	S2555	P2556	L2557	L2558	L2563	D2564	K2565	D2566	F2567	S2573	E2574	A2575	D2576	A2577	R2578	A2579	P2580	V2581	Q2582	F2583	D2584	P2585	S2586	R2591			
A2412	M2416	S2417	G2418	A2419	A2420	D2421	E2422	S2423	D2424	D2425	E2426	A2427	P2428	T2431	I2432	R2433	A2434	L2435	P2436	S2437	P2438	P2439	P2444	A2445	P2446	A2447	P2448	E2449	W2450	D2451	D2452	L2453	D2454	A2458	V2461	V2462	L2469	G2470	P2471	Y2472	R2478	M2481	E2482	V2483	L2487	V2492	L2495						
M2296	R2297	G2298	M2299	F2300	D2303	K2310	R2311	R2319	S2331	L2332	A2333	H2334	L2337	G2338	W2339	M2346	G2347	P2348	Q2348	N2349	L2352	V2353	S2354	E2358	A2359	G2360	V2361	M2369	W2372	L2376	K2391	V2392	D2393	L2394	T2395	L2398	G2399	D2400	I2401	R2402	L2403	D2404	M2405	A2406	F2407	L2408							

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	4337	Depositor
Resolution determination method	Not provided	
CTF correction method	Not provided	
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	
Minimum defocus (nm)	1800	Depositor
Maximum defocus (nm)	4500	Depositor
Magnification	59000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	10.361	Depositor
Minimum map value	-2.852	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.8	Depositor
Map size ($\text{\AA}$)	456.0, 456.0, 456.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	2.28, 2.28, 2.28	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: FMN

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	0.45	18/21335 (0.1%)	0.90	61/29037 (0.2%)
1	B	0.45	18/21335 (0.1%)	0.90	60/29037 (0.2%)
1	C	0.45	18/21335 (0.1%)	0.90	60/29037 (0.2%)
1	D	0.45	18/21335 (0.1%)	0.90	60/29037 (0.2%)
1	E	0.45	18/21335 (0.1%)	0.90	61/29037 (0.2%)
1	F	0.45	18/21335 (0.1%)	0.90	59/29037 (0.2%)
All	All	0.45	108/128010 (0.1%)	0.90	361/174222 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	5
1	B	0	5
1	C	0	5
1	D	0	5
1	E	0	5
1	F	0	5
All	All	0	30

All (108) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2094	HIS	CB-CG	-5.85	1.42	1.50
1	A	996	LEU	CB-CG	-5.81	1.41	1.53
1	A	2094	HIS	CB-CG	-5.80	1.42	1.50
1	F	2115	HIS	CB-CG	-5.80	1.42	1.50
1	B	1003	HIS	CB-CG	-5.80	1.42	1.50
1	E	2094	HIS	CB-CG	-5.78	1.42	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	2435	LEU	CB-CG	-5.78	1.41	1.53
1	D	2094	HIS	CB-CG	-5.78	1.42	1.50
1	B	2115	HIS	CB-CG	-5.77	1.42	1.50
1	C	2094	HIS	CB-CG	-5.77	1.42	1.50
1	F	1003	HIS	CB-CG	-5.77	1.42	1.50
1	E	2435	LEU	CB-CG	-5.76	1.42	1.53
1	A	2115	HIS	CB-CG	-5.76	1.42	1.50
1	B	989	HIS	CB-CG	-5.76	1.42	1.50
1	F	989	HIS	CB-CG	-5.76	1.42	1.50
1	D	2435	LEU	CB-CG	-5.76	1.42	1.53
1	C	2115	HIS	CB-CG	-5.75	1.42	1.50
1	D	989	HIS	CB-CG	-5.75	1.42	1.50
1	A	2435	LEU	CB-CG	-5.75	1.42	1.53
1	C	989	HIS	CB-CG	-5.75	1.42	1.50
1	B	2435	LEU	CB-CG	-5.75	1.42	1.53
1	D	2122	ILE	CB-CG1	-5.74	1.42	1.53
1	F	2094	HIS	CB-CG	-5.74	1.42	1.50
1	C	1003	HIS	CB-CG	-5.74	1.42	1.50
1	E	1003	HIS	CB-CG	-5.74	1.42	1.50
1	E	989	HIS	CB-CG	-5.73	1.42	1.50
1	A	2122	ILE	CB-CG1	-5.73	1.42	1.53
1	A	2108	LEU	CB-CG	-5.72	1.42	1.53
1	F	996	LEU	CB-CG	-5.72	1.42	1.53
1	C	996	LEU	CB-CG	-5.72	1.42	1.53
1	B	2108	LEU	CB-CG	-5.72	1.42	1.53
1	D	1003	HIS	CB-CG	-5.71	1.42	1.50
1	D	2115	HIS	CB-CG	-5.71	1.42	1.50
1	F	2118	LEU	CB-CG	-5.71	1.42	1.53
1	D	1203	LEU	CB-CG	-5.71	1.42	1.53
1	B	996	LEU	CB-CG	-5.71	1.42	1.53
1	D	2108	LEU	CB-CG	-5.71	1.42	1.53
1	E	996	LEU	CB-CG	-5.71	1.42	1.53
1	A	989	HIS	CB-CG	-5.70	1.42	1.50
1	C	2435	LEU	CB-CG	-5.70	1.42	1.53
1	D	1213	ILE	CB-CG1	-5.70	1.42	1.53
1	E	2085	LEU	CB-CG	-5.70	1.42	1.53
1	B	1213	ILE	CB-CG1	-5.70	1.42	1.53
1	D	2432	ILE	CB-CG1	-5.70	1.42	1.53
1	A	1203	LEU	CB-CG	-5.70	1.42	1.53
1	D	934	LEU	CB-CG	-5.70	1.42	1.53
1	D	996	LEU	CB-CG	-5.70	1.42	1.53
1	B	934	LEU	CB-CG	-5.69	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2085	LEU	CB-CG	-5.69	1.42	1.53
1	D	2453	LEU	CB-CG	-5.69	1.42	1.53
1	E	2108	LEU	CB-CG	-5.69	1.42	1.53
1	F	934	LEU	CB-CG	-5.69	1.42	1.53
1	A	2085	LEU	CB-CG	-5.69	1.42	1.53
1	C	2085	LEU	CB-CG	-5.69	1.42	1.53
1	A	2432	ILE	CB-CG1	-5.69	1.42	1.53
1	A	2118	LEU	CB-CG	-5.68	1.42	1.53
1	B	1203	LEU	CB-CG	-5.68	1.42	1.53
1	B	2432	ILE	CB-CG1	-5.68	1.42	1.53
1	D	2118	LEU	CB-CG	-5.68	1.42	1.53
1	E	1213	ILE	CB-CG1	-5.68	1.42	1.53
1	E	2115	HIS	CB-CG	-5.67	1.42	1.50
1	F	2122	ILE	CB-CG1	-5.67	1.42	1.53
1	F	1213	ILE	CB-CG1	-5.67	1.42	1.53
1	A	2453	LEU	CB-CG	-5.67	1.42	1.53
1	E	934	LEU	CB-CG	-5.67	1.42	1.53
1	F	1203	LEU	CB-CG	-5.67	1.42	1.53
1	F	2085	LEU	CB-CG	-5.67	1.42	1.53
1	B	2118	LEU	CB-CG	-5.66	1.42	1.53
1	D	2078	ILE	CB-CG1	-5.66	1.42	1.53
1	A	1003	HIS	CB-CG	-5.66	1.42	1.50
1	B	2453	LEU	CB-CG	-5.66	1.42	1.53
1	E	1203	LEU	CB-CG	-5.66	1.42	1.53
1	E	2122	ILE	CB-CG1	-5.66	1.42	1.53
1	C	2118	LEU	CB-CG	-5.66	1.42	1.53
1	D	2085	LEU	CB-CG	-5.66	1.42	1.53
1	C	2122	ILE	CB-CG1	-5.65	1.42	1.53
1	B	2078	ILE	CB-CG1	-5.65	1.42	1.53
1	C	1203	LEU	CB-CG	-5.65	1.42	1.53
1	E	2432	ILE	CB-CG1	-5.65	1.42	1.53
1	C	2108	LEU	CB-CG	-5.65	1.42	1.53
1	E	2118	LEU	CB-CG	-5.65	1.42	1.53
1	A	934	LEU	CB-CG	-5.64	1.42	1.53
1	C	2432	ILE	CB-CG1	-5.64	1.42	1.53
1	A	1213	ILE	CB-CG1	-5.64	1.42	1.53
1	C	934	LEU	CB-CG	-5.64	1.42	1.53
1	C	1213	ILE	CB-CG1	-5.63	1.42	1.53
1	E	2078	ILE	CB-CG1	-5.63	1.42	1.53
1	F	2108	LEU	CB-CG	-5.63	1.42	1.53
1	B	2122	ILE	CB-CG1	-5.62	1.42	1.53
1	E	2453	LEU	CB-CG	-5.62	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1006	LEU	CB-CG	-5.61	1.42	1.53
1	F	2078	ILE	CB-CG1	-5.61	1.42	1.53
1	F	2453	LEU	CB-CG	-5.61	1.42	1.53
1	C	2453	LEU	CB-CG	-5.60	1.42	1.53
1	A	2078	ILE	CB-CG1	-5.60	1.42	1.53
1	F	2432	ILE	CB-CG1	-5.60	1.42	1.53
1	C	1006	LEU	CB-CG	-5.58	1.42	1.53
1	D	1006	LEU	CB-CG	-5.56	1.42	1.53
1	A	1006	LEU	CB-CG	-5.55	1.42	1.53
1	C	2078	ILE	CB-CG1	-5.55	1.42	1.53
1	F	1010	LEU	CB-CG	-5.55	1.42	1.53
1	B	1010	LEU	CB-CG	-5.53	1.42	1.53
1	A	1010	LEU	CB-CG	-5.52	1.42	1.53
1	D	1010	LEU	CB-CG	-5.51	1.42	1.53
1	F	1006	LEU	CB-CG	-5.50	1.42	1.53
1	E	1006	LEU	CB-CG	-5.50	1.42	1.53
1	E	1010	LEU	CB-CG	-5.49	1.42	1.53
1	C	1010	LEU	CB-CG	-5.47	1.42	1.53

All (361) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2438	PRO	N-CA-CB	13.73	110.88	103.19
1	A	2438	PRO	N-CA-CB	13.58	110.79	103.19
1	F	2438	PRO	N-CA-CB	13.53	110.77	103.19
1	D	2438	PRO	N-CA-CB	13.51	110.76	103.19
1	E	2438	PRO	N-CA-CB	13.51	110.75	103.19
1	C	2438	PRO	N-CA-CB	13.48	110.74	103.19
1	B	151	PRO	N-CA-C	10.68	123.73	110.70
1	C	151	PRO	N-CA-C	10.67	123.72	110.70
1	D	151	PRO	N-CA-C	10.66	123.71	110.70
1	A	151	PRO	N-CA-C	10.62	123.66	110.70
1	E	151	PRO	N-CA-C	10.59	123.62	110.70
1	F	151	PRO	N-CA-C	10.30	123.27	110.70
1	B	1206	PRO	N-CA-CB	8.86	110.83	101.88
1	D	1206	PRO	N-CA-CB	8.85	110.82	101.88
1	F	1206	PRO	N-CA-CB	8.85	110.82	101.88
1	E	1206	PRO	N-CA-CB	8.84	110.81	101.88
1	C	1206	PRO	N-CA-CB	8.83	110.80	101.88
1	A	1206	PRO	N-CA-CB	8.83	110.79	101.88
1	A	204	ARG	CA-C-N	8.72	129.36	120.38
1	A	204	ARG	C-N-CA	8.72	129.36	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	204	ARG	CA-C-N	8.71	129.35	120.38
1	F	204	ARG	C-N-CA	8.71	129.35	120.38
1	E	204	ARG	CA-C-N	8.66	129.30	120.38
1	E	204	ARG	C-N-CA	8.66	129.30	120.38
1	D	204	ARG	CA-C-N	8.61	129.25	120.38
1	D	204	ARG	C-N-CA	8.61	129.25	120.38
1	C	204	ARG	CA-C-N	8.60	129.24	120.38
1	C	204	ARG	C-N-CA	8.60	129.24	120.38
1	B	204	ARG	CA-C-N	8.57	129.21	120.38
1	B	204	ARG	C-N-CA	8.57	129.21	120.38
1	B	1619	VAL	CA-C-N	8.23	127.89	119.82
1	B	1619	VAL	C-N-CA	8.23	127.89	119.82
1	C	1619	VAL	CA-C-N	8.19	127.85	119.82
1	C	1619	VAL	C-N-CA	8.19	127.85	119.82
1	D	1619	VAL	CA-C-N	8.18	127.84	119.82
1	D	1619	VAL	C-N-CA	8.18	127.84	119.82
1	E	1619	VAL	CA-C-N	8.17	127.83	119.82
1	E	1619	VAL	C-N-CA	8.17	127.83	119.82
1	F	1619	VAL	CA-C-N	8.14	127.80	119.82
1	F	1619	VAL	C-N-CA	8.14	127.80	119.82
1	A	1619	VAL	CA-C-N	8.10	127.76	119.82
1	A	1619	VAL	C-N-CA	8.10	127.76	119.82
1	C	930	PRO	N-CA-CB	8.09	111.75	103.25
1	B	930	PRO	N-CA-CB	8.06	111.71	103.25
1	C	2439	PRO	N-CA-CB	8.05	110.51	103.27
1	D	930	PRO	N-CA-CB	8.04	111.69	103.25
1	E	930	PRO	N-CA-CB	8.02	111.68	103.25
1	A	930	PRO	N-CA-CB	8.01	111.66	103.25
1	F	930	PRO	N-CA-CB	7.97	111.62	103.25
1	F	2439	PRO	N-CA-CB	7.91	110.39	103.27
1	D	2439	PRO	N-CA-CB	7.90	110.38	103.27
1	E	2439	PRO	N-CA-CB	7.88	110.37	103.27
1	A	2439	PRO	N-CA-CB	7.88	110.36	103.27
1	A	42	GLU	CA-C-N	7.87	128.31	120.52
1	A	42	GLU	C-N-CA	7.87	128.31	120.52
1	C	42	GLU	CA-C-N	7.84	128.28	120.52
1	C	42	GLU	C-N-CA	7.84	128.28	120.52
1	D	42	GLU	CA-C-N	7.83	128.28	120.52
1	D	42	GLU	C-N-CA	7.83	128.28	120.52
1	B	2439	PRO	N-CA-CB	7.82	110.31	103.27
1	E	42	GLU	CA-C-N	7.82	128.26	120.52
1	E	42	GLU	C-N-CA	7.82	128.26	120.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	42	GLU	CA-C-N	7.80	128.24	120.52
1	F	42	GLU	C-N-CA	7.80	128.24	120.52
1	E	1288	PRO	N-CA-C	7.75	120.15	110.70
1	B	42	GLU	CA-C-N	7.74	128.18	120.52
1	B	42	GLU	C-N-CA	7.74	128.18	120.52
1	D	1288	PRO	N-CA-C	7.73	120.13	110.70
1	A	1288	PRO	N-CA-C	7.71	120.11	110.70
1	F	1288	PRO	N-CA-C	7.71	120.11	110.70
1	B	1288	PRO	N-CA-C	7.69	120.08	110.70
1	C	1288	PRO	N-CA-C	7.67	120.06	110.70
1	C	355	GLY	CA-C-N	7.31	127.34	119.89
1	C	355	GLY	C-N-CA	7.31	127.34	119.89
1	A	355	GLY	CA-C-N	7.25	127.29	119.89
1	A	355	GLY	C-N-CA	7.25	127.29	119.89
1	B	355	GLY	CA-C-N	7.25	127.29	119.89
1	B	355	GLY	C-N-CA	7.25	127.29	119.89
1	E	355	GLY	CA-C-N	7.21	127.25	119.89
1	E	355	GLY	C-N-CA	7.21	127.25	119.89
1	D	355	GLY	CA-C-N	7.20	127.23	119.89
1	D	355	GLY	C-N-CA	7.20	127.23	119.89
1	F	355	GLY	CA-C-N	7.20	127.23	119.89
1	F	355	GLY	C-N-CA	7.20	127.23	119.89
1	A	398	ARG	CA-C-N	7.07	128.67	119.84
1	A	398	ARG	C-N-CA	7.07	128.67	119.84
1	D	398	ARG	CA-C-N	7.06	128.66	119.84
1	D	398	ARG	C-N-CA	7.06	128.66	119.84
1	D	2428	PRO	N-CA-CB	7.04	110.64	103.25
1	B	2428	PRO	N-CA-CB	7.03	110.63	103.25
1	C	2428	PRO	N-CA-CB	7.03	110.63	103.25
1	E	398	ARG	CA-C-N	7.03	128.62	119.84
1	E	398	ARG	C-N-CA	7.03	128.62	119.84
1	A	2428	PRO	N-CA-CB	7.02	110.63	103.25
1	E	2444	PRO	N-CA-CB	7.02	110.62	103.25
1	F	2444	PRO	N-CA-CB	7.02	110.62	103.25
1	C	398	ARG	CA-C-N	7.01	128.61	119.84
1	C	398	ARG	C-N-CA	7.01	128.61	119.84
1	A	2444	PRO	N-CA-CB	7.00	110.60	103.25
1	B	398	ARG	CA-C-N	7.00	128.59	119.84
1	B	398	ARG	C-N-CA	7.00	128.59	119.84
1	F	398	ARG	CA-C-N	7.00	128.58	119.84
1	F	398	ARG	C-N-CA	7.00	128.58	119.84
1	F	2428	PRO	N-CA-CB	7.00	110.60	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	2428	PRO	N-CA-CB	6.99	110.59	103.25
1	B	2444	PRO	N-CA-CB	6.99	110.59	103.25
1	C	2444	PRO	N-CA-CB	6.98	110.58	103.25
1	D	2444	PRO	N-CA-CB	6.98	110.58	103.25
1	A	2446	PRO	N-CA-CB	6.91	110.51	103.25
1	D	2446	PRO	N-CA-CB	6.91	110.51	103.25
1	B	2446	PRO	N-CA-CB	6.88	110.48	103.25
1	F	2446	PRO	N-CA-CB	6.86	110.46	103.25
1	C	2446	PRO	N-CA-CB	6.84	110.43	103.25
1	A	2448	PRO	N-CA-CB	6.83	110.42	103.25
1	E	2446	PRO	N-CA-CB	6.79	110.38	103.25
1	E	2448	PRO	N-CA-CB	6.79	110.38	103.25
1	F	2448	PRO	N-CA-CB	6.79	110.38	103.25
1	C	2448	PRO	N-CA-CB	6.77	110.36	103.25
1	D	2448	PRO	N-CA-CB	6.74	110.33	103.25
1	B	2448	PRO	N-CA-CB	6.73	110.31	103.25
1	A	1009	PRO	N-CA-CB	6.70	110.28	103.25
1	E	2853	ILE	CA-C-N	-6.69	112.81	119.56
1	E	2853	ILE	C-N-CA	-6.69	112.81	119.56
1	F	2853	ILE	CA-C-N	-6.68	112.81	119.56
1	F	2853	ILE	C-N-CA	-6.68	112.81	119.56
1	E	1352	PHE	CA-C-N	6.68	127.07	119.92
1	E	1352	PHE	C-N-CA	6.68	127.07	119.92
1	A	2853	ILE	CA-C-N	-6.66	112.83	119.56
1	A	2853	ILE	C-N-CA	-6.66	112.83	119.56
1	C	1009	PRO	N-CA-CB	6.66	110.24	103.25
1	F	1009	PRO	N-CA-CB	6.65	110.24	103.25
1	B	990	PRO	N-CA-CB	6.64	110.22	103.25
1	C	2853	ILE	CA-C-N	-6.63	112.86	119.56
1	C	2853	ILE	C-N-CA	-6.63	112.86	119.56
1	B	1009	PRO	N-CA-CB	6.62	110.20	103.25
1	B	2853	ILE	CA-C-N	-6.62	112.87	119.56
1	B	2853	ILE	C-N-CA	-6.62	112.87	119.56
1	D	1009	PRO	N-CA-CB	6.62	110.20	103.25
1	D	2853	ILE	CA-C-N	-6.62	112.87	119.56
1	D	2853	ILE	C-N-CA	-6.62	112.87	119.56
1	F	1352	PHE	CA-C-N	6.61	127.00	119.92
1	F	1352	PHE	C-N-CA	6.61	127.00	119.92
1	E	1009	PRO	N-CA-CB	6.60	110.18	103.25
1	C	990	PRO	N-CA-CB	6.60	110.18	103.25
1	B	1352	PHE	CA-C-N	6.59	126.98	119.92
1	B	1352	PHE	C-N-CA	6.59	126.98	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	990	PRO	N-CA-CB	6.59	110.17	103.25
1	C	1352	PHE	CA-C-N	6.59	126.97	119.92
1	C	1352	PHE	C-N-CA	6.59	126.97	119.92
1	D	990	PRO	N-CA-CB	6.59	110.17	103.25
1	F	990	PRO	N-CA-CB	6.58	110.16	103.25
1	A	1352	PHE	CA-C-N	6.58	126.96	119.92
1	A	1352	PHE	C-N-CA	6.58	126.96	119.92
1	D	1352	PHE	CA-C-N	6.57	126.95	119.92
1	D	1352	PHE	C-N-CA	6.57	126.95	119.92
1	A	990	PRO	N-CA-CB	6.54	110.11	103.25
1	B	1221	PRO	N-CA-CB	6.48	110.05	103.25
1	A	1221	PRO	N-CA-CB	6.46	110.03	103.25
1	C	1221	PRO	N-CA-CB	6.45	110.02	103.25
1	F	2436	PRO	N-CA-CB	6.44	110.01	103.25
1	D	1221	PRO	N-CA-CB	6.43	110.00	103.25
1	F	1221	PRO	N-CA-CB	6.41	109.98	103.25
1	A	2436	PRO	N-CA-CB	6.37	109.94	103.25
1	E	2436	PRO	N-CA-CB	6.36	109.93	103.25
1	B	2436	PRO	N-CA-CB	6.36	109.92	103.25
1	D	2436	PRO	N-CA-CB	6.35	109.92	103.25
1	C	2436	PRO	N-CA-CB	6.34	109.91	103.25
1	E	1221	PRO	N-CA-CB	6.34	109.91	103.25
1	E	3054	LYS	CA-C-N	6.29	126.41	119.87
1	E	3054	LYS	C-N-CA	6.29	126.41	119.87
1	D	3054	LYS	CA-C-N	6.27	126.39	119.87
1	D	3054	LYS	C-N-CA	6.27	126.39	119.87
1	F	3054	LYS	CA-C-N	6.26	126.38	119.87
1	F	3054	LYS	C-N-CA	6.26	126.38	119.87
1	A	3054	LYS	CA-C-N	6.24	126.35	119.87
1	A	3054	LYS	C-N-CA	6.24	126.35	119.87
1	C	3054	LYS	CA-C-N	6.24	126.36	119.87
1	C	3054	LYS	C-N-CA	6.24	126.36	119.87
1	B	1167	GLY	N-CA-C	6.23	118.36	110.38
1	A	1167	GLY	N-CA-C	6.23	118.36	110.38
1	D	1167	GLY	N-CA-C	6.21	118.33	110.38
1	E	1167	GLY	N-CA-C	6.21	118.33	110.38
1	C	1167	GLY	N-CA-C	6.21	118.33	110.38
1	B	3054	LYS	CA-C-N	6.21	126.33	119.87
1	B	3054	LYS	C-N-CA	6.21	126.33	119.87
1	D	2129	PRO	N-CA-CB	6.19	110.38	103.44
1	F	2129	PRO	N-CA-CB	6.18	110.36	103.44
1	B	2129	PRO	N-CA-CB	6.17	110.36	103.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2129	PRO	N-CA-CB	6.17	110.35	103.44
1	C	2129	PRO	N-CA-CB	6.17	110.35	103.44
1	F	1167	GLY	N-CA-C	6.17	118.27	110.38
1	E	2129	PRO	N-CA-CB	6.16	110.34	103.44
1	F	1656	LYS	N-CA-C	6.11	120.54	112.35
1	C	515	ALA	CA-C-N	6.09	125.79	119.82
1	C	515	ALA	C-N-CA	6.09	125.79	119.82
1	C	1656	LYS	N-CA-C	6.06	120.47	112.35
1	E	515	ALA	CA-C-N	6.06	125.76	119.82
1	E	515	ALA	C-N-CA	6.06	125.76	119.82
1	B	1656	LYS	N-CA-C	6.06	120.47	112.35
1	D	1656	LYS	N-CA-C	6.03	120.43	112.35
1	A	1656	LYS	N-CA-C	6.01	120.41	112.35
1	E	1656	LYS	N-CA-C	6.00	120.39	112.35
1	F	515	ALA	CA-C-N	5.99	125.69	119.82
1	F	515	ALA	C-N-CA	5.99	125.69	119.82
1	D	515	ALA	CA-C-N	5.98	125.68	119.82
1	D	515	ALA	C-N-CA	5.98	125.68	119.82
1	A	515	ALA	CA-C-N	5.96	125.66	119.82
1	A	515	ALA	C-N-CA	5.96	125.66	119.82
1	B	515	ALA	CA-C-N	5.93	125.63	119.82
1	B	515	ALA	C-N-CA	5.93	125.63	119.82
1	C	2855	ALA	CA-C-N	5.80	126.29	120.14
1	C	2855	ALA	C-N-CA	5.80	126.29	120.14
1	B	2855	ALA	CA-C-N	5.80	126.28	120.14
1	B	2855	ALA	C-N-CA	5.80	126.28	120.14
1	E	2855	ALA	CA-C-N	5.79	126.28	120.14
1	E	2855	ALA	C-N-CA	5.79	126.28	120.14
1	A	2855	ALA	CA-C-N	5.78	126.27	120.14
1	A	2855	ALA	C-N-CA	5.78	126.27	120.14
1	B	1207	VAL	N-CA-C	5.76	116.72	107.73
1	F	2855	ALA	CA-C-N	5.76	126.24	120.14
1	F	2855	ALA	C-N-CA	5.76	126.24	120.14
1	A	42	GLU	N-CA-C	5.75	116.22	109.60
1	C	1207	VAL	N-CA-C	5.75	116.70	107.73
1	E	492	LEU	N-CA-C	5.75	118.03	111.02
1	A	492	LEU	N-CA-C	5.74	118.02	111.02
1	D	1207	VAL	N-CA-C	5.74	116.68	107.73
1	E	42	GLU	N-CA-C	5.74	116.19	109.60
1	F	492	LEU	N-CA-C	5.74	118.02	111.02
1	F	1207	VAL	N-CA-C	5.73	116.67	107.73
1	E	1207	VAL	N-CA-C	5.73	116.67	107.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	42	GLU	N-CA-C	5.73	116.19	109.60
1	B	492	LEU	N-CA-C	5.72	118.00	111.02
1	F	42	GLU	N-CA-C	5.72	116.18	109.60
1	A	1207	VAL	N-CA-C	5.71	116.64	107.73
1	D	492	LEU	N-CA-C	5.71	117.98	111.02
1	D	2855	ALA	CA-C-N	5.70	126.19	120.14
1	D	2855	ALA	C-N-CA	5.70	126.19	120.14
1	C	42	GLU	N-CA-C	5.67	116.12	109.60
1	C	492	LEU	N-CA-C	5.67	117.94	111.02
1	D	42	GLU	N-CA-C	5.67	116.12	109.60
1	A	2674	HIS	CA-C-N	5.67	126.05	119.47
1	A	2674	HIS	C-N-CA	5.67	126.05	119.47
1	E	2674	HIS	CA-C-N	5.65	126.03	119.47
1	E	2674	HIS	C-N-CA	5.65	126.03	119.47
1	B	2674	HIS	CA-C-N	5.65	126.02	119.47
1	B	2674	HIS	C-N-CA	5.65	126.02	119.47
1	C	2674	HIS	CA-C-N	5.63	126.00	119.47
1	C	2674	HIS	C-N-CA	5.63	126.00	119.47
1	D	2674	HIS	CA-C-N	5.60	125.96	119.47
1	D	2674	HIS	C-N-CA	5.60	125.96	119.47
1	C	1316	VAL	CB-CA-C	-5.58	106.96	111.71
1	F	2674	HIS	CA-C-N	5.57	125.93	119.47
1	F	2674	HIS	C-N-CA	5.57	125.93	119.47
1	E	1316	VAL	CB-CA-C	-5.56	106.98	111.71
1	A	1316	VAL	CB-CA-C	-5.55	106.99	111.71
1	F	1316	VAL	CB-CA-C	-5.54	107.00	111.71
1	D	1316	VAL	CB-CA-C	-5.54	107.00	111.71
1	B	1316	VAL	CB-CA-C	-5.52	107.02	111.71
1	C	2731	GLY	N-CA-C	5.43	119.31	112.79
1	A	3077	THR	N-CA-C	5.43	116.88	111.07
1	F	2731	GLY	N-CA-C	5.41	119.28	112.79
1	C	3077	THR	N-CA-C	5.40	116.85	111.07
1	F	942	ASP	N-CA-C	5.40	117.62	109.41
1	B	942	ASP	N-CA-C	5.40	117.62	109.41
1	C	1721	LEU	CA-C-N	-5.40	113.47	119.19
1	C	1721	LEU	C-N-CA	-5.40	113.47	119.19
1	E	2731	GLY	N-CA-C	5.39	119.26	112.79
1	E	942	ASP	N-CA-C	5.39	117.60	109.41
1	B	2731	GLY	N-CA-C	5.39	119.25	112.79
1	D	3077	THR	N-CA-C	5.38	116.83	111.07
1	C	942	ASP	N-CA-C	5.38	117.59	109.41
1	D	1721	LEU	CA-C-N	-5.38	113.49	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1721	LEU	C-N-CA	-5.38	113.49	119.19
1	E	1721	LEU	CA-C-N	-5.38	113.49	119.19
1	E	1721	LEU	C-N-CA	-5.38	113.49	119.19
1	B	3077	THR	N-CA-C	5.37	116.82	111.07
1	D	942	ASP	N-CA-C	5.37	117.57	109.41
1	A	942	ASP	N-CA-C	5.36	117.56	109.41
1	E	3077	THR	N-CA-C	5.36	116.81	111.07
1	A	2731	GLY	N-CA-C	5.35	119.21	112.79
1	F	3077	THR	N-CA-C	5.35	116.79	111.07
1	F	1721	LEU	CA-C-N	-5.33	113.54	119.19
1	F	1721	LEU	C-N-CA	-5.33	113.54	119.19
1	B	1721	LEU	CA-C-N	-5.32	113.55	119.19
1	B	1721	LEU	C-N-CA	-5.32	113.55	119.19
1	D	2731	GLY	N-CA-C	5.32	119.18	112.79
1	A	1721	LEU	CA-C-N	-5.28	113.59	119.19
1	A	1721	LEU	C-N-CA	-5.28	113.59	119.19
1	C	2584	ASP	N-CA-C	5.23	121.37	109.81
1	D	55	TRP	N-CA-C	5.23	117.06	111.36
1	B	2584	ASP	N-CA-C	5.23	121.36	109.81
1	D	2584	ASP	N-CA-C	5.21	121.32	109.81
1	F	2848	GLY	N-CA-C	5.21	118.08	110.63
1	A	55	TRP	N-CA-C	5.20	117.03	111.36
1	A	2584	ASP	N-CA-C	5.20	121.31	109.81
1	F	2584	ASP	N-CA-C	5.20	121.30	109.81
1	C	2848	GLY	N-CA-C	5.19	118.05	110.63
1	D	2848	GLY	N-CA-C	5.17	118.03	110.63
1	F	55	TRP	N-CA-C	5.17	117.00	111.36
1	C	55	TRP	N-CA-C	5.17	117.00	111.36
1	B	2848	GLY	N-CA-C	5.17	118.02	110.63
1	E	2584	ASP	N-CA-C	5.17	121.22	109.81
1	A	2848	GLY	N-CA-C	5.16	118.01	110.63
1	B	1574	VAL	N-CA-C	5.16	112.97	107.76
1	B	55	TRP	N-CA-C	5.15	116.97	111.36
1	E	2848	GLY	N-CA-C	5.15	117.99	110.63
1	E	55	TRP	N-CA-C	5.14	116.96	111.36
1	D	393	VAL	N-CA-C	5.13	119.96	108.88
1	E	1574	VAL	N-CA-C	5.13	112.94	107.76
1	A	393	VAL	N-CA-C	5.13	119.96	108.88
1	B	393	VAL	N-CA-C	5.12	119.94	108.88
1	F	393	VAL	N-CA-C	5.11	119.92	108.88
1	E	393	VAL	N-CA-C	5.11	119.92	108.88
1	D	2611	VAL	N-CA-C	5.10	113.45	107.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	1574	VAL	N-CA-C	5.10	112.91	107.76
1	F	2611	VAL	CA-C-N	5.09	125.33	119.83
1	F	2611	VAL	C-N-CA	5.09	125.33	119.83
1	E	2611	VAL	CA-C-N	5.09	125.33	119.83
1	E	2611	VAL	C-N-CA	5.09	125.33	119.83
1	D	2611	VAL	CA-C-N	5.09	125.33	119.83
1	D	2611	VAL	C-N-CA	5.09	125.33	119.83
1	A	2611	VAL	N-CA-C	5.08	113.42	107.89
1	B	2593	LEU	CA-C-N	5.08	125.11	119.32
1	B	2593	LEU	C-N-CA	5.08	125.11	119.32
1	C	2611	VAL	CA-C-N	5.07	125.31	119.83
1	C	2611	VAL	C-N-CA	5.07	125.31	119.83
1	B	1247	ASN	CA-C-N	5.07	124.73	119.56
1	B	1247	ASN	C-N-CA	5.07	124.73	119.56
1	C	393	VAL	N-CA-C	5.07	119.83	108.88
1	C	1247	ASN	CA-C-N	5.05	124.71	119.56
1	C	1247	ASN	C-N-CA	5.05	124.71	119.56
1	D	2593	LEU	CA-C-N	5.05	125.08	119.32
1	D	2593	LEU	C-N-CA	5.05	125.08	119.32
1	B	2611	VAL	CA-C-N	5.05	125.28	119.83
1	B	2611	VAL	C-N-CA	5.05	125.28	119.83
1	E	2611	VAL	N-CA-C	5.05	113.39	107.89
1	E	1247	ASN	CA-C-N	5.05	124.71	119.56
1	E	1247	ASN	C-N-CA	5.05	124.71	119.56
1	F	1003	HIS	CB-CA-C	-5.04	110.38	117.23
1	F	2611	VAL	N-CA-C	5.04	113.38	107.89
1	A	1197	ARG	N-CA-C	5.03	117.80	109.85
1	C	2611	VAL	N-CA-C	5.03	113.38	107.89
1	A	2593	LEU	CA-C-N	5.03	125.06	119.32
1	A	2593	LEU	C-N-CA	5.03	125.06	119.32
1	A	2611	VAL	CA-C-N	5.02	125.25	119.83
1	A	2611	VAL	C-N-CA	5.02	125.25	119.83
1	D	1003	HIS	CB-CA-C	-5.02	110.40	117.23
1	A	1247	ASN	CA-C-N	5.02	124.68	119.56
1	A	1247	ASN	C-N-CA	5.02	124.68	119.56
1	D	1247	ASN	CA-C-N	5.02	124.68	119.56
1	D	1247	ASN	C-N-CA	5.02	124.68	119.56
1	C	1003	HIS	CB-CA-C	-5.01	110.41	117.23
1	F	1247	ASN	CA-C-N	5.01	124.67	119.56
1	F	1247	ASN	C-N-CA	5.01	124.67	119.56
1	B	2611	VAL	N-CA-C	5.01	113.35	107.89
1	E	1003	HIS	CB-CA-C	-5.01	110.42	117.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	2593	LEU	CA-C-N	5.01	125.03	119.32
1	E	2593	LEU	C-N-CA	5.01	125.03	119.32
1	A	1003	HIS	CB-CA-C	-5.00	110.42	117.23
1	C	2593	LEU	CA-C-N	5.00	125.02	119.32
1	C	2593	LEU	C-N-CA	5.00	125.02	119.32

There are no chirality outliers.

All (30) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1148	GLU	Peptide
1	A	150	THR	Peptide
1	A	202	GLY	Peptide
1	A	2584	ASP	Peptide
1	A	357	GLY	Peptide
1	B	1148	GLU	Peptide
1	B	150	THR	Peptide
1	B	202	GLY	Peptide
1	B	2584	ASP	Peptide
1	B	357	GLY	Peptide
1	C	1148	GLU	Peptide
1	C	150	THR	Peptide
1	C	202	GLY	Peptide
1	C	2584	ASP	Peptide
1	C	357	GLY	Peptide
1	D	1148	GLU	Peptide
1	D	150	THR	Peptide
1	D	202	GLY	Peptide
1	D	2584	ASP	Peptide
1	D	357	GLY	Peptide
1	E	1148	GLU	Peptide
1	E	150	THR	Peptide
1	E	202	GLY	Peptide
1	E	2584	ASP	Peptide
1	E	357	GLY	Peptide
1	F	1148	GLU	Peptide
1	F	150	THR	Peptide
1	F	202	GLY	Peptide
1	F	2584	ASP	Peptide
1	F	357	GLY	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	20945	0	20595	914	0
1	B	20945	0	20595	906	0
1	C	20945	0	20595	909	0
1	D	20945	0	20595	909	0
1	E	20945	0	20595	913	0
1	F	20945	0	20595	917	0
2	A	31	0	19	4	0
2	B	31	0	19	5	0
2	C	31	0	19	4	0
2	D	31	0	19	5	0
2	E	31	0	19	4	0
2	F	31	0	19	5	0
All	All	125856	0	123684	5122	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 21.

All (5122) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1013:THR:HG23	1:A:1014:TRP:H	1.15	1.10
1:E:1013:THR:HG23	1:E:1014:TRP:H	1.15	1.09
1:A:2112:ARG:H	1:A:2115:HIS:CG	1.73	1.07
1:C:2094:HIS:CG	1:C:2096:VAL:HG22	1.90	1.06
1:D:1013:THR:HG23	1:D:1014:TRP:H	1.15	1.06
1:F:1013:THR:HG23	1:F:1014:TRP:H	1.15	1.06
1:E:2094:HIS:CG	1:E:2096:VAL:HG22	1.90	1.06
1:A:2094:HIS:CG	1:A:2096:VAL:HG12	1.90	1.06
1:C:2112:ARG:H	1:C:2115:HIS:CG	1.73	1.06
1:E:2112:ARG:H	1:E:2115:HIS:CG	1.73	1.06
1:F:2112:ARG:H	1:F:2115:HIS:CG	1.73	1.06
1:C:1013:THR:HG23	1:C:1014:TRP:H	1.15	1.05
1:B:2112:ARG:H	1:B:2115:HIS:CG	1.73	1.05
1:D:2094:HIS:CG	1:D:2096:VAL:HG12	1.90	1.05
1:B:2094:HIS:CG	1:B:2096:VAL:HG12	1.90	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2094:HIS:CG	1:F:2096:VAL:HG12	1.90	1.05
1:D:2112:ARG:H	1:D:2115:HIS:CG	1.73	1.05
1:B:1013:THR:HG23	1:B:1014:TRP:H	1.15	1.03
1:F:992:THR:CG2	1:F:996:LEU:CG	2.39	1.01
1:B:992:THR:CG2	1:B:996:LEU:CG	2.39	1.01
1:A:992:THR:CG2	1:A:996:LEU:CG	2.39	1.01
1:C:992:THR:CG2	1:C:996:LEU:CG	2.39	1.01
1:E:992:THR:CG2	1:E:996:LEU:CG	2.39	1.00
1:C:2433:ARG:HA	1:C:2524:CYS:HB3	1.44	1.00
1:A:2433:ARG:HA	1:A:2524:CYS:HB3	1.44	1.00
1:D:2433:ARG:HA	1:D:2524:CYS:HB3	1.44	1.00
1:D:992:THR:CG2	1:D:996:LEU:CG	2.39	0.99
1:B:2433:ARG:HA	1:B:2524:CYS:HB3	1.44	0.99
1:E:792:ALA:O	1:E:2433:ARG:CG	2.12	0.98
1:E:2433:ARG:HA	1:E:2524:CYS:HB3	1.44	0.98
1:A:1220:THR:HG22	1:A:1221:PRO:N	1.78	0.98
1:C:792:ALA:O	1:C:2433:ARG:CG	2.12	0.98
1:E:1220:THR:HG22	1:E:1221:PRO:N	1.78	0.98
1:F:2433:ARG:HA	1:F:2524:CYS:HB3	1.44	0.98
1:D:792:ALA:O	1:D:2433:ARG:CG	2.12	0.98
1:F:792:ALA:O	1:F:2433:ARG:CG	2.12	0.98
1:C:3080:ARG:HH11	1:C:3080:ARG:HG3	1.29	0.98
1:A:792:ALA:O	1:A:2433:ARG:CG	2.11	0.98
1:D:1220:THR:HG22	1:D:1221:PRO:N	1.78	0.97
1:F:1220:THR:HG22	1:F:1221:PRO:N	1.77	0.97
1:F:3080:ARG:HH11	1:F:3080:ARG:HG3	1.29	0.97
1:C:407:VAL:HB	1:C:933:VAL:HG11	1.47	0.97
1:B:792:ALA:O	1:B:2433:ARG:CG	2.12	0.96
1:D:407:VAL:HB	1:D:933:VAL:HG11	1.47	0.96
1:A:407:VAL:HB	1:A:933:VAL:HG21	1.47	0.96
1:C:1220:THR:HG22	1:C:1221:PRO:N	1.78	0.96
1:E:3080:ARG:HH11	1:E:3080:ARG:HG3	1.29	0.96
1:B:1220:THR:HG22	1:B:1221:PRO:N	1.77	0.96
1:B:3080:ARG:HH11	1:B:3080:ARG:HG3	1.29	0.95
1:E:992:THR:HG21	1:E:996:LEU:CG	1.97	0.94
1:A:3080:ARG:HH11	1:A:3080:ARG:HG3	1.29	0.94
1:D:992:THR:HG21	1:D:996:LEU:CG	1.97	0.94
1:F:407:VAL:HB	1:F:933:VAL:HG11	1.47	0.94
1:F:992:THR:HG21	1:F:996:LEU:CG	1.97	0.94
1:A:992:THR:HG21	1:A:996:LEU:CG	1.97	0.94
1:D:3080:ARG:HG3	1:D:3080:ARG:HH11	1.29	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:992:THR:HG21	1:C:996:LEU:CG	1.97	0.93
1:D:793:ARG:O	1:D:2435:LEU:CG	2.17	0.93
1:F:793:ARG:O	1:F:2435:LEU:CG	2.17	0.93
1:B:992:THR:HG21	1:B:996:LEU:CG	1.97	0.93
1:B:1003:HIS:CG	1:B:1004:VAL:H	1.86	0.93
1:B:1012:GLY:O	1:B:1013:THR:HG22	1.69	0.93
1:C:2100:ALA:O	1:C:2103:TRP:CG	2.22	0.93
1:A:2100:ALA:O	1:A:2103:TRP:CG	2.22	0.93
1:B:793:ARG:O	1:B:2435:LEU:CG	2.17	0.93
1:B:2100:ALA:O	1:B:2103:TRP:CG	2.22	0.93
1:C:1012:GLY:O	1:C:1013:THR:HG22	1.69	0.93
1:D:1012:GLY:O	1:D:1013:THR:HG22	1.69	0.93
1:F:1003:HIS:CG	1:F:1004:VAL:H	1.86	0.93
1:D:2100:ALA:O	1:D:2103:TRP:CG	2.22	0.93
1:F:2100:ALA:O	1:F:2103:TRP:CG	2.22	0.92
1:A:793:ARG:O	1:A:2435:LEU:CG	2.16	0.92
1:E:2100:ALA:O	1:E:2103:TRP:CG	2.22	0.92
1:B:407:VAL:HB	1:B:933:VAL:HG21	1.47	0.92
1:C:793:ARG:O	1:C:2435:LEU:CG	2.17	0.92
1:C:1003:HIS:CG	1:C:1004:VAL:H	1.86	0.92
1:E:407:VAL:HB	1:E:933:VAL:HG21	1.47	0.92
1:E:793:ARG:O	1:E:2435:LEU:CG	2.17	0.92
1:D:1003:HIS:CG	1:D:1004:VAL:H	1.86	0.92
1:F:1012:GLY:O	1:F:1013:THR:HG22	1.69	0.91
1:A:1012:GLY:O	1:A:1013:THR:HG22	1.69	0.91
1:F:1013:THR:HG23	1:F:1014:TRP:N	1.84	0.91
1:E:1013:THR:HG23	1:E:1014:TRP:N	1.84	0.90
1:B:1013:THR:HG23	1:B:1014:TRP:N	1.84	0.90
1:E:1012:GLY:O	1:E:1013:THR:HG22	1.69	0.90
1:E:1003:HIS:CG	1:E:1004:VAL:H	1.86	0.90
1:A:1013:THR:HG23	1:A:1014:TRP:N	1.84	0.89
1:A:1003:HIS:CG	1:A:1004:VAL:H	1.86	0.89
1:E:931:VAL:HG13	1:E:934:LEU:H	1.40	0.87
1:C:931:VAL:HG13	1:C:934:LEU:H	1.40	0.86
1:B:931:VAL:HG11	1:B:933:VAL:CG2	2.06	0.86
1:F:931:VAL:HG23	1:F:934:LEU:H	1.40	0.86
1:C:931:VAL:HG11	1:C:933:VAL:CG1	2.06	0.86
1:A:931:VAL:HG23	1:A:934:LEU:H	1.40	0.85
1:C:2105:GLY:O	1:C:2108:LEU:CG	2.24	0.85
1:C:3077:THR:HA	1:D:2865:ARG:HD3	1.57	0.85
1:F:2105:GLY:O	1:F:2108:LEU:CG	2.24	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2105:GLY:O	1:A:2108:LEU:CG	2.25	0.85
1:A:3077:THR:HA	1:F:2865:ARG:HD3	1.57	0.85
1:D:1013:THR:HG23	1:D:1014:TRP:N	1.84	0.85
1:E:931:VAL:HG11	1:E:933:VAL:CG2	2.06	0.85
1:A:1218:THR:HG23	1:A:1441:GLN:OE1	1.77	0.85
1:B:2105:GLY:O	1:B:2108:LEU:CG	2.24	0.85
1:D:931:VAL:HG21	1:D:933:VAL:CG1	2.06	0.85
1:D:2105:GLY:O	1:D:2108:LEU:CG	2.24	0.85
1:A:931:VAL:HG21	1:A:933:VAL:CG2	2.06	0.85
1:B:3077:THR:HA	1:E:2865:ARG:HD3	1.57	0.85
1:D:1218:THR:HG23	1:D:1441:GLN:OE1	1.77	0.85
1:C:1218:THR:HG23	1:C:1441:GLN:OE1	1.77	0.84
1:F:1218:THR:HG23	1:F:1441:GLN:OE1	1.77	0.84
1:B:2865:ARG:HD3	1:E:3077:THR:HA	1.57	0.84
1:E:2105:GLY:O	1:E:2108:LEU:CG	2.25	0.84
1:D:931:VAL:HG23	1:D:934:LEU:H	1.40	0.84
1:F:992:THR:HG22	1:F:996:LEU:CG	2.07	0.84
1:A:2865:ARG:HD3	1:F:3077:THR:HA	1.57	0.84
1:B:1218:THR:HG23	1:B:1441:GLN:OE1	1.77	0.84
1:F:931:VAL:HG21	1:F:933:VAL:CG1	2.06	0.84
1:A:992:THR:HG22	1:A:996:LEU:CG	2.07	0.84
1:B:931:VAL:HG13	1:B:934:LEU:H	1.40	0.84
1:C:992:THR:HG22	1:C:996:LEU:CG	2.07	0.83
1:D:992:THR:HG22	1:D:996:LEU:CG	2.07	0.83
1:E:992:THR:HG22	1:E:996:LEU:CG	2.07	0.83
1:E:1218:THR:HG23	1:E:1441:GLN:OE1	1.77	0.83
1:B:43:PRO:HG2	1:B:348:ALA:HA	1.60	0.83
1:B:992:THR:HG22	1:B:996:LEU:CG	2.07	0.83
1:A:43:PRO:HG2	1:A:348:ALA:HA	1.60	0.83
1:C:2865:ARG:HD3	1:D:3077:THR:HA	1.58	0.83
1:B:1538:ARG:HH11	1:B:1722:PRO:HB3	1.43	0.83
1:C:1013:THR:HG23	1:C:1014:TRP:N	1.84	0.83
1:E:43:PRO:HG2	1:E:348:ALA:HA	1.60	0.83
1:F:1538:ARG:HH11	1:F:1722:PRO:HB3	1.43	0.82
1:B:2451:ASP:CG	1:B:2454:ASP:OD2	2.22	0.82
1:B:2016:VAL:HG13	1:B:2020:PRO:HG3	1.62	0.82
1:E:2016:VAL:HG13	1:E:2020:PRO:HG3	1.62	0.82
1:D:2016:VAL:HG13	1:D:2020:PRO:HG3	1.62	0.82
1:E:2451:ASP:CG	1:E:2454:ASP:OD2	2.22	0.82
1:A:2451:ASP:CG	1:A:2454:ASP:OD2	2.22	0.81
1:F:2451:ASP:CG	1:F:2454:ASP:OD2	2.23	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1538:ARG:HH11	1:C:1722:PRO:HB3	1.43	0.81
1:D:43:PRO:HG2	1:D:348:ALA:HA	1.60	0.81
1:D:1538:ARG:HH11	1:D:1722:PRO:HB3	1.43	0.81
1:A:1538:ARG:HH11	1:A:1722:PRO:HB3	1.43	0.81
1:D:2451:ASP:CG	1:D:2454:ASP:OD2	2.22	0.81
1:E:2730:TYR:OH	1:E:3059:ARG:NH1	2.14	0.81
1:F:46:VAL:HB	1:F:155:VAL:HG13	1.63	0.81
1:A:2730:TYR:OH	1:A:3059:ARG:NH1	2.14	0.81
1:C:43:PRO:HG2	1:C:348:ALA:HA	1.60	0.81
1:F:43:PRO:HG2	1:F:348:ALA:HA	1.61	0.81
1:C:2451:ASP:CG	1:C:2454:ASP:OD2	2.22	0.81
1:D:2730:TYR:OH	1:D:3059:ARG:NH1	2.14	0.81
1:F:138:ARG:NH2	1:F:175:ASP:OD2	2.14	0.81
1:A:2016:VAL:HG13	1:A:2020:PRO:HG3	1.62	0.81
1:C:967:VAL:HA	1:C:970:ILE:HB	1.63	0.81
1:F:967:VAL:HA	1:F:970:ILE:HB	1.63	0.81
1:C:46:VAL:HB	1:C:155:VAL:HG13	1.63	0.81
1:E:46:VAL:HB	1:E:155:VAL:HG13	1.63	0.81
1:E:138:ARG:NH2	1:E:175:ASP:OD2	2.14	0.81
1:B:46:VAL:HB	1:B:155:VAL:HG13	1.63	0.80
1:C:931:VAL:CG1	1:C:933:VAL:CG1	2.60	0.80
1:D:138:ARG:NH2	1:D:175:ASP:OD2	2.14	0.80
1:E:967:VAL:HA	1:E:970:ILE:HB	1.63	0.80
1:F:2016:VAL:HG13	1:F:2020:PRO:HG3	1.62	0.80
1:A:138:ARG:NH2	1:A:175:ASP:OD2	2.14	0.80
1:F:931:VAL:CG2	1:F:933:VAL:CG1	2.60	0.80
1:B:138:ARG:NH2	1:B:175:ASP:OD2	2.14	0.80
1:B:967:VAL:HA	1:B:970:ILE:HB	1.63	0.80
1:C:2610:ARG:HH12	1:C:2700:LEU:HD11	1.47	0.80
1:E:1538:ARG:HH11	1:E:1722:PRO:HB3	1.43	0.80
1:A:931:VAL:CG2	1:A:933:VAL:CG2	2.60	0.80
1:C:138:ARG:NH2	1:C:175:ASP:OD2	2.14	0.80
1:F:2730:TYR:OH	1:F:3059:ARG:NH1	2.14	0.80
1:C:2730:TYR:OH	1:C:3059:ARG:NH1	2.14	0.80
1:D:967:VAL:HA	1:D:970:ILE:HB	1.63	0.80
1:B:931:VAL:CG1	1:B:933:VAL:CG2	2.60	0.80
1:C:2016:VAL:HG13	1:C:2020:PRO:HG3	1.62	0.80
1:E:931:VAL:CG1	1:E:933:VAL:CG2	2.60	0.80
1:A:46:VAL:HB	1:A:155:VAL:HG13	1.63	0.80
1:A:967:VAL:HA	1:A:970:ILE:HB	1.63	0.79
1:D:931:VAL:CG2	1:D:933:VAL:CG1	2.60	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:931:VAL:HG11	1:E:933:VAL:HG23	1.65	0.79
1:B:2730:TYR:OH	1:B:3059:ARG:NH1	2.14	0.79
1:F:273:ARG:HB2	1:F:282:VAL:H	1.47	0.79
1:A:273:ARG:HB2	1:A:282:VAL:H	1.47	0.79
1:D:1220:THR:CG2	1:D:1221:PRO:N	2.46	0.79
1:A:2450:TRP:CG	1:A:3016:ALA:HB1	2.18	0.79
1:C:273:ARG:HB2	1:C:282:VAL:H	1.47	0.79
1:B:273:ARG:HB2	1:B:282:VAL:H	1.47	0.79
1:B:2610:ARG:HH12	1:B:2700:LEU:HD11	1.47	0.79
1:D:2610:ARG:HH12	1:D:2700:LEU:HD11	1.47	0.79
1:F:2450:TRP:CG	1:F:3016:ALA:HB1	2.18	0.79
1:D:46:VAL:HB	1:D:155:VAL:HG13	1.63	0.79
1:F:2610:ARG:HH12	1:F:2700:LEU:HD11	1.47	0.79
1:C:2450:TRP:CG	1:C:3016:ALA:HB1	2.18	0.78
1:F:1329:ALA:HB3	1:F:1337:MET:H	1.48	0.78
1:E:2450:TRP:CG	1:E:3016:ALA:HB1	2.18	0.78
1:D:273:ARG:HB2	1:D:282:VAL:H	1.47	0.78
1:D:971:ALA:O	1:D:974:THR:HG22	1.84	0.78
1:E:2610:ARG:HH12	1:E:2700:LEU:HD11	1.47	0.78
1:A:971:ALA:O	1:A:974:THR:HG22	1.84	0.78
1:F:931:VAL:HG21	1:F:933:VAL:HG13	1.65	0.78
1:B:971:ALA:O	1:B:974:THR:HG22	1.84	0.78
1:B:2450:TRP:CG	1:B:3016:ALA:HB1	2.18	0.78
1:E:1329:ALA:HB3	1:E:1337:MET:H	1.49	0.78
1:B:931:VAL:HG11	1:B:933:VAL:HG23	1.65	0.77
1:C:971:ALA:O	1:C:974:THR:HG22	1.84	0.77
1:D:2450:TRP:CG	1:D:3016:ALA:HB1	2.18	0.77
1:F:1220:THR:CG2	1:F:1221:PRO:N	2.46	0.77
1:E:273:ARG:HB2	1:E:282:VAL:H	1.47	0.77
1:F:971:ALA:O	1:F:974:THR:HG22	1.84	0.77
1:D:931:VAL:HG21	1:D:933:VAL:HG13	1.65	0.77
1:A:1329:ALA:HB3	1:A:1337:MET:H	1.48	0.77
1:A:931:VAL:CG2	1:A:933:VAL:HG23	2.15	0.77
1:B:1329:ALA:HB3	1:B:1337:MET:H	1.48	0.77
1:E:971:ALA:O	1:E:974:THR:HG22	1.84	0.77
1:C:931:VAL:CG1	1:C:933:VAL:HG13	2.15	0.77
1:C:2112:ARG:O	1:C:2115:HIS:CG	2.38	0.77
1:A:931:VAL:HG21	1:A:933:VAL:HG23	1.64	0.77
1:A:2610:ARG:HH12	1:A:2700:LEU:HD11	1.47	0.77
1:F:931:VAL:CG2	1:F:933:VAL:HG13	2.15	0.77
1:E:1220:THR:CG2	1:E:1221:PRO:N	2.46	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:931:VAL:CG1	1:E:933:VAL:HG23	2.15	0.76
1:A:2557:LEU:O	1:A:2613:ARG:N	2.18	0.76
1:A:2645:ASP:OD2	1:A:2691:SER:N	2.19	0.76
1:C:931:VAL:HG11	1:C:933:VAL:HG13	1.65	0.76
1:C:934:LEU:O	1:C:937:ARG:CG	2.34	0.76
1:C:1220:THR:CG2	1:C:1221:PRO:N	2.46	0.76
1:B:2112:ARG:O	1:B:2115:HIS:CG	2.38	0.76
1:D:2112:ARG:O	1:D:2115:HIS:CG	2.38	0.76
1:F:934:LEU:O	1:F:937:ARG:CG	2.34	0.76
1:A:934:LEU:O	1:A:937:ARG:CG	2.34	0.76
1:D:2645:ASP:OD2	1:D:2691:SER:N	2.19	0.76
1:E:2557:LEU:O	1:E:2613:ARG:N	2.18	0.76
1:D:931:VAL:CG2	1:D:933:VAL:HG13	2.15	0.76
1:B:1097:VAL:HB	1:B:1146:PRO:HB2	1.68	0.76
1:D:934:LEU:O	1:D:937:ARG:CG	2.34	0.76
1:D:1329:ALA:HB3	1:D:1337:MET:H	1.49	0.76
1:F:2112:ARG:O	1:F:2115:HIS:CG	2.38	0.76
1:A:1695:LEU:HD23	1:B:257:ARG:HH12	1.51	0.75
1:A:2112:ARG:O	1:A:2115:HIS:CG	2.38	0.75
1:D:1097:VAL:HB	1:D:1146:PRO:HB2	1.68	0.75
1:D:1695:LEU:HD23	1:E:257:ARG:HH12	1.50	0.75
1:E:2112:ARG:O	1:E:2115:HIS:CG	2.38	0.75
1:E:1695:LEU:HD23	1:F:257:ARG:HH12	1.51	0.75
1:B:1695:LEU:HD23	1:C:257:ARG:HH12	1.50	0.75
1:C:2645:ASP:OD2	1:C:2691:SER:N	2.19	0.75
1:A:257:ARG:HH12	1:C:1695:LEU:HD23	1.51	0.75
1:A:1097:VAL:HB	1:A:1146:PRO:HB2	1.68	0.75
1:B:934:LEU:O	1:B:937:ARG:CG	2.34	0.75
1:B:2557:LEU:O	1:B:2613:ARG:N	2.18	0.75
1:C:1329:ALA:HB3	1:C:1337:MET:H	1.49	0.75
1:D:257:ARG:HH12	1:F:1695:LEU:HD23	1.51	0.75
1:D:2103:TRP:CG	1:D:2104:GLN:H	2.05	0.75
1:A:1556:GLU:OE2	1:A:1560:ARG:NH2	2.20	0.75
1:A:2103:TRP:CG	1:A:2104:GLN:H	2.05	0.75
1:B:2103:TRP:CG	1:B:2104:GLN:H	2.05	0.75
1:C:2103:TRP:CG	1:C:2104:GLN:H	2.05	0.75
1:B:931:VAL:CG1	1:B:933:VAL:HG23	2.15	0.74
1:F:445:VAL:HG13	1:F:475:LEU:HD21	1.69	0.74
1:F:1097:VAL:HB	1:F:1146:PRO:HB2	1.68	0.74
1:D:445:VAL:HG13	1:D:475:LEU:HD21	1.69	0.74
1:E:33:ALA:HB2	1:E:390:VAL:HA	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:33:ALA:HB2	1:C:390:VAL:HA	1.70	0.74
1:E:934:LEU:O	1:E:937:ARG:CG	2.34	0.74
1:B:1220:THR:CG2	1:B:1221:PRO:N	2.46	0.74
1:D:3015:ILE:HG12	1:D:3023:ARG:HG3	1.69	0.74
1:E:445:VAL:HG13	1:E:475:LEU:HD21	1.69	0.74
1:F:2645:ASP:OD2	1:F:2691:SER:N	2.19	0.74
1:A:33:ALA:HB2	1:A:390:VAL:HA	1.70	0.74
1:F:2103:TRP:CG	1:F:2104:GLN:H	2.05	0.74
1:B:1556:GLU:OE2	1:B:1560:ARG:NH2	2.20	0.74
1:C:3015:ILE:HG12	1:C:3023:ARG:HG3	1.69	0.74
1:E:1097:VAL:HB	1:E:1146:PRO:HB2	1.68	0.74
1:C:2700:LEU:HD22	1:D:2697:HIS:HD2	1.53	0.74
1:D:1556:GLU:OE2	1:D:1560:ARG:NH2	2.20	0.74
1:C:1097:VAL:HB	1:C:1146:PRO:HB2	1.68	0.74
1:E:1556:GLU:OE2	1:E:1560:ARG:NH2	2.20	0.74
1:E:2645:ASP:OD2	1:E:2691:SER:N	2.19	0.74
1:E:3015:ILE:HG12	1:E:3023:ARG:HG3	1.69	0.74
1:B:3015:ILE:HG12	1:B:3023:ARG:HG3	1.69	0.74
1:C:2053:ALA:O	1:C:2807:ARG:NH2	2.21	0.73
1:D:2557:LEU:O	1:D:2613:ARG:N	2.18	0.73
1:A:2697:HIS:HD2	1:F:2700:LEU:HD22	1.53	0.73
1:B:2645:ASP:OD2	1:B:2691:SER:N	2.19	0.73
1:D:437:PRO:HG3	1:D:876:LEU:HB3	1.70	0.73
1:D:2096:VAL:O	1:D:2099:GLN:CG	2.37	0.73
1:F:1168:ARG:N	1:F:1194:ILE:O	2.21	0.73
1:F:3015:ILE:HG12	1:F:3023:ARG:HG3	1.69	0.73
1:A:1220:THR:CG2	1:A:1221:PRO:N	2.46	0.73
1:B:2053:ALA:O	1:B:2807:ARG:NH2	2.21	0.73
1:C:1556:GLU:OE2	1:C:1560:ARG:NH2	2.20	0.73
1:E:1168:ARG:N	1:E:1194:ILE:O	2.21	0.73
1:A:2096:VAL:O	1:A:2099:GLN:CG	2.37	0.73
1:A:2700:LEU:HD22	1:F:2697:HIS:HD2	1.53	0.73
1:C:2612:PRO:O	1:D:2603:ARG:NH2	2.22	0.73
1:D:33:ALA:HB2	1:D:390:VAL:HA	1.70	0.73
1:F:33:ALA:HB2	1:F:390:VAL:HA	1.70	0.73
1:B:2603:ARG:NH2	1:E:2612:PRO:O	2.22	0.73
1:F:2053:ALA:O	1:F:2807:ARG:NH2	2.21	0.73
1:A:437:PRO:HG3	1:A:876:LEU:HB3	1.70	0.73
1:A:445:VAL:HG13	1:A:475:LEU:HD21	1.69	0.73
1:B:2700:LEU:HD22	1:E:2697:HIS:HD2	1.53	0.73
1:B:2883:ALA:O	1:B:2916:ARG:NH1	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:445:VAL:HG13	1:C:475:LEU:HD21	1.69	0.73
1:C:2845:PHE:HD1	1:D:2731:GLY:HA2	1.54	0.73
1:E:1003:HIS:CG	1:E:1004:VAL:N	2.53	0.73
1:E:2103:TRP:CG	1:E:2104:GLN:H	2.05	0.73
1:E:2883:ALA:O	1:E:2916:ARG:NH1	2.22	0.73
1:F:1556:GLU:OE2	1:F:1560:ARG:NH2	2.20	0.73
1:A:3015:ILE:HG12	1:A:3023:ARG:HG3	1.69	0.73
1:B:936:ARG:HB3	1:B:941:ARG:HB3	1.71	0.73
1:F:2883:ALA:O	1:F:2916:ARG:NH1	2.22	0.73
1:A:2731:GLY:HA2	1:F:2845:PHE:HD1	1.54	0.72
1:B:445:VAL:HG13	1:B:475:LEU:HD21	1.69	0.72
1:B:2096:VAL:O	1:B:2099:GLN:CG	2.36	0.72
1:C:1168:ARG:N	1:C:1194:ILE:O	2.21	0.72
1:D:2053:ALA:O	1:D:2807:ARG:NH2	2.21	0.72
1:E:437:PRO:HG3	1:E:876:LEU:HB3	1.70	0.72
1:E:2096:VAL:O	1:E:2099:GLN:CG	2.37	0.72
1:F:2096:VAL:O	1:F:2099:GLN:CG	2.37	0.72
1:A:2612:PRO:O	1:F:2603:ARG:NH2	2.22	0.72
1:B:437:PRO:HG3	1:B:876:LEU:HB3	1.71	0.72
1:B:1168:ARG:N	1:B:1194:ILE:O	2.21	0.72
1:B:2998:GLY:N	1:B:3002:VAL:O	2.23	0.72
1:C:936:ARG:HB3	1:C:941:ARG:HB3	1.71	0.72
1:D:1400:PRO:HD2	1:D:1416:VAL:HG22	1.72	0.72
1:E:936:ARG:HB3	1:E:941:ARG:HB3	1.71	0.72
1:A:2845:PHE:HD1	1:F:2731:GLY:HA2	1.54	0.72
1:B:2612:PRO:O	1:E:2603:ARG:NH2	2.22	0.72
1:C:2096:VAL:O	1:C:2099:GLN:CG	2.36	0.72
1:C:2557:LEU:O	1:C:2613:ARG:N	2.18	0.72
1:C:2603:ARG:NH2	1:D:2612:PRO:O	2.22	0.72
1:D:1168:ARG:N	1:D:1194:ILE:O	2.21	0.72
1:D:2998:GLY:N	1:D:3002:VAL:O	2.23	0.72
1:B:2845:PHE:HD1	1:E:2731:GLY:HA2	1.54	0.72
1:E:2053:ALA:O	1:E:2807:ARG:NH2	2.21	0.72
1:F:70:SER:OG	1:F:142:ARG:NH2	2.23	0.72
1:A:1253:ARG:HH11	1:A:1253:ARG:HG3	1.55	0.72
1:A:2883:ALA:O	1:A:2916:ARG:NH1	2.22	0.72
1:B:2103:TRP:CG	1:B:2104:GLN:N	2.58	0.72
1:C:437:PRO:HG3	1:C:876:LEU:HB3	1.70	0.72
1:D:1237:ARG:NH1	1:E:95:PRO:HB2	2.05	0.72
1:E:70:SER:OG	1:E:142:ARG:NH2	2.23	0.72
1:F:2103:TRP:CG	1:F:2104:GLN:N	2.58	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2603:ARG:NH2	1:F:2612:PRO:O	2.22	0.72
1:B:1218:THR:CG2	1:B:1441:GLN:OE1	2.38	0.72
1:E:1253:ARG:HG3	1:E:1253:ARG:HH11	1.55	0.72
1:A:2053:ALA:O	1:A:2807:ARG:NH2	2.21	0.72
1:B:1400:PRO:HD2	1:B:1416:VAL:HG22	1.72	0.72
1:C:1218:THR:CG2	1:C:1441:GLN:OE1	2.38	0.72
1:D:2883:ALA:O	1:D:2916:ARG:NH1	2.22	0.72
1:A:2998:GLY:N	1:A:3002:VAL:O	2.23	0.72
1:B:33:ALA:HB2	1:B:390:VAL:HA	1.69	0.72
1:C:2883:ALA:O	1:C:2916:ARG:NH1	2.22	0.72
1:E:2103:TRP:CG	1:E:2104:GLN:N	2.58	0.72
1:C:2268:GLN:OE1	1:C:2319:ARG:NH1	2.23	0.72
1:B:2268:GLN:OE1	1:B:2319:ARG:NH1	2.23	0.71
1:C:3075:LEU:HD23	1:D:2861:LEU:HD21	1.72	0.71
1:F:1253:ARG:HH11	1:F:1253:ARG:HG3	1.55	0.71
1:B:2731:GLY:HA2	1:E:2845:PHE:HD1	1.54	0.71
1:B:2861:LEU:HD21	1:E:3075:LEU:HD23	1.72	0.71
1:D:1253:ARG:HH11	1:D:1253:ARG:HG3	1.54	0.71
1:F:437:PRO:HG3	1:F:876:LEU:HB3	1.70	0.71
1:F:936:ARG:HB3	1:F:941:ARG:HB3	1.71	0.71
1:A:936:ARG:HB3	1:A:941:ARG:HB3	1.71	0.71
1:A:1168:ARG:N	1:A:1194:ILE:O	2.21	0.71
1:B:70:SER:OG	1:B:142:ARG:NH2	2.23	0.71
1:B:1253:ARG:HH11	1:B:1253:ARG:HG3	1.54	0.71
1:B:2697:HIS:HD2	1:E:2700:LEU:HD22	1.53	0.71
1:D:95:PRO:HB2	1:F:1237:ARG:NH1	2.05	0.71
1:F:2557:LEU:O	1:F:2613:ARG:N	2.18	0.71
1:A:1390:PHE:HA	1:E:2282:ASP:HB3	1.72	0.71
1:A:2268:GLN:OE1	1:A:2319:ARG:NH1	2.23	0.71
1:D:1218:THR:CG2	1:D:1441:GLN:OE1	2.38	0.71
1:C:2697:HIS:HD2	1:D:2700:LEU:HD22	1.53	0.71
1:A:70:SER:OG	1:A:142:ARG:NH2	2.23	0.71
1:A:1400:PRO:HD2	1:A:1416:VAL:HG22	1.72	0.71
1:C:2731:GLY:HA2	1:D:2845:PHE:HD1	1.54	0.71
1:C:2998:GLY:N	1:C:3002:VAL:O	2.23	0.71
1:E:1218:THR:CG2	1:E:1441:GLN:OE1	2.38	0.71
1:E:2998:GLY:N	1:E:3002:VAL:O	2.23	0.71
1:F:1218:THR:CG2	1:F:1441:GLN:OE1	2.38	0.71
1:F:2268:GLN:OE1	1:F:2319:ARG:NH1	2.23	0.71
1:A:3075:LEU:HD23	1:F:2861:LEU:HD21	1.72	0.71
1:C:70:SER:OG	1:C:142:ARG:NH2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1400:PRO:HD2	1:E:1416:VAL:HG22	1.72	0.71
1:A:1237:ARG:NH1	1:B:95:PRO:HB2	2.05	0.71
1:D:2103:TRP:CG	1:D:2104:GLN:N	2.58	0.71
1:D:2268:GLN:OE1	1:D:2319:ARG:NH1	2.23	0.71
1:F:1400:PRO:HD2	1:F:1416:VAL:HG22	1.72	0.71
1:A:1218:THR:CG2	1:A:1441:GLN:OE1	2.38	0.71
1:B:1390:PHE:HA	1:D:2282:ASP:HB3	1.72	0.71
1:B:2282:ASP:HB3	1:D:1390:PHE:HA	1.72	0.71
1:C:1253:ARG:HH11	1:C:1253:ARG:HG3	1.54	0.71
1:A:95:PRO:HB2	1:C:1237:ARG:NH1	2.05	0.71
1:A:2743:ALA:HB1	1:A:2940:VAL:HG23	1.73	0.71
1:B:1237:ARG:NH1	1:C:95:PRO:HB2	2.05	0.71
1:C:1400:PRO:HD2	1:C:1416:VAL:HG22	1.72	0.71
1:C:2282:ASP:HB3	1:F:1390:PHE:HA	1.72	0.71
1:E:580:ARG:HD2	1:E:614:GLY:HA3	1.73	0.71
1:F:2215:THR:HB	1:F:2229:LYS:HB2	1.73	0.71
1:F:2743:ALA:HB1	1:F:2940:VAL:HG23	1.73	0.71
1:A:1507:GLN:O	1:A:1562:ARG:NH1	2.24	0.70
1:C:2861:LEU:HD21	1:D:3075:LEU:HD23	1.72	0.70
1:D:70:SER:OG	1:D:142:ARG:NH2	2.23	0.70
1:D:580:ARG:HD2	1:D:614:GLY:HA3	1.73	0.70
1:E:1237:ARG:NH1	1:F:95:PRO:HB2	2.05	0.70
1:E:1634:ARG:HH11	1:E:1639:ALA:H	1.39	0.70
1:E:2268:GLN:OE1	1:E:2319:ARG:NH1	2.23	0.70
1:E:2743:ALA:HB1	1:E:2940:VAL:HG23	1.73	0.70
1:B:1634:ARG:HH11	1:B:1639:ALA:H	1.39	0.70
1:C:580:ARG:HD2	1:C:614:GLY:HA3	1.72	0.70
1:D:1634:ARG:HH11	1:D:1639:ALA:H	1.39	0.70
1:D:2012:GLY:C	1:E:2591:ARG:HH12	1.99	0.70
1:E:1507:GLN:O	1:E:1562:ARG:NH1	2.24	0.70
1:F:2998:GLY:N	1:F:3002:VAL:O	2.23	0.70
1:A:974:THR:HG21	1:A:977:GLN:HB3	1.74	0.70
1:A:2861:LEU:HD21	1:F:3075:LEU:HD23	1.72	0.70
1:D:1003:HIS:CG	1:D:1004:VAL:N	2.53	0.70
1:D:1507:GLN:O	1:D:1562:ARG:NH1	2.24	0.70
1:D:2591:ARG:HH12	1:F:2012:GLY:C	2.00	0.70
1:A:2591:ARG:HH12	1:C:2012:GLY:C	1.99	0.70
1:B:2215:THR:HB	1:B:2229:LYS:HB2	1.74	0.70
1:B:2558:LEU:HG	1:B:2612:PRO:HA	1.73	0.70
1:B:3075:LEU:HD23	1:E:2861:LEU:HD21	1.72	0.70
1:C:1390:PHE:HA	1:F:2282:ASP:HB3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2558:LEU:HG	1:F:2612:PRO:HA	1.73	0.70
1:B:1507:GLN:O	1:B:1562:ARG:NH1	2.24	0.70
1:C:1507:GLN:O	1:C:1562:ARG:NH1	2.24	0.70
1:C:2860:ALA:HB3	1:C:2906:LEU:HD21	1.73	0.70
1:D:936:ARG:HB3	1:D:941:ARG:HB3	1.72	0.70
1:E:2012:GLY:C	1:F:2591:ARG:HH12	2.00	0.70
1:A:2103:TRP:CG	1:A:2104:GLN:N	2.58	0.70
1:D:1177:ARG:HB2	1:D:1184:LEU:HD23	1.74	0.70
1:E:2860:ALA:HB3	1:E:2906:LEU:HD21	1.73	0.70
1:A:580:ARG:HD2	1:A:614:GLY:HA3	1.73	0.70
1:A:2215:THR:HB	1:A:2229:LYS:HB2	1.74	0.70
1:B:2012:GLY:C	1:C:2591:ARG:HH12	1.99	0.70
1:C:1634:ARG:HH11	1:C:1639:ALA:H	1.39	0.70
1:D:2860:ALA:HB3	1:D:2906:LEU:HD21	1.73	0.70
1:F:137:VAL:HG22	1:F:354:LEU:HD13	1.74	0.70
1:A:2282:ASP:HB3	1:E:1390:PHE:HA	1.72	0.70
1:B:1177:ARG:HB2	1:B:1184:LEU:HD23	1.74	0.70
1:B:2743:ALA:HB1	1:B:2940:VAL:HG23	1.73	0.70
1:E:2558:LEU:HG	1:E:2612:PRO:HA	1.74	0.70
1:F:580:ARG:HD2	1:F:614:GLY:HA3	1.72	0.70
1:F:2860:ALA:HB3	1:F:2906:LEU:HD21	1.73	0.70
1:A:1634:ARG:HH11	1:A:1639:ALA:H	1.39	0.70
1:B:137:VAL:HG22	1:B:354:LEU:HD13	1.74	0.70
1:C:137:VAL:HG22	1:C:354:LEU:HD13	1.74	0.70
1:E:137:VAL:HG22	1:E:354:LEU:HD13	1.74	0.70
1:A:2860:ALA:HB3	1:A:2906:LEU:HD21	1.73	0.69
1:C:2215:THR:HB	1:C:2229:LYS:HB2	1.73	0.69
1:C:2558:LEU:HG	1:C:2612:PRO:HA	1.73	0.69
1:E:1724:TYR:OH	1:F:267:GLU:OE2	2.07	0.69
1:F:1012:GLY:O	1:F:1013:THR:CG2	2.41	0.69
1:F:1507:GLN:O	1:F:1562:ARG:NH1	2.24	0.69
1:A:2558:LEU:HG	1:A:2612:PRO:HA	1.73	0.69
1:E:1035:VAL:HG12	1:E:1037:ASP:H	1.57	0.69
1:F:1177:ARG:HB2	1:F:1184:LEU:HD23	1.74	0.69
1:A:1003:HIS:CG	1:A:1004:VAL:N	2.53	0.69
1:D:1046:LEU:HD13	1:D:1129:LEU:HD22	1.75	0.69
1:D:2085:LEU:O	1:D:2088:ARG:CG	2.40	0.69
1:A:2012:GLY:C	1:B:2591:ARG:HH12	1.99	0.69
1:C:2085:LEU:O	1:C:2088:ARG:CG	2.41	0.69
1:D:2215:THR:HB	1:D:2229:LYS:HB2	1.73	0.69
1:E:1012:GLY:O	1:E:1013:THR:CG2	2.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2946:LEU:HD11	1:F:2992:GLY:HA3	1.75	0.69
1:E:974:THR:HG21	1:E:977:GLN:HB3	1.74	0.69
1:B:2085:LEU:O	1:B:2088:ARG:CG	2.41	0.69
1:B:2647:VAL:HG22	1:B:2769:ASP:HB2	1.75	0.69
1:C:2743:ALA:HB1	1:C:2940:VAL:HG23	1.73	0.69
1:D:137:VAL:HG22	1:D:354:LEU:HD13	1.74	0.69
1:D:2946:LEU:HD11	1:D:2992:GLY:HA3	1.75	0.69
1:F:1634:ARG:HH11	1:F:1639:ALA:H	1.39	0.69
1:B:580:ARG:HD2	1:B:614:GLY:HA3	1.73	0.69
1:C:1177:ARG:HB2	1:C:1184:LEU:HD23	1.74	0.69
1:F:974:THR:HG21	1:F:977:GLN:HB3	1.74	0.69
1:F:2085:LEU:O	1:F:2088:ARG:CG	2.40	0.69
1:A:137:VAL:HG22	1:A:354:LEU:HD13	1.74	0.69
1:A:1035:VAL:HG12	1:A:1037:ASP:H	1.57	0.69
1:A:2909:ARG:HB3	1:F:3075:LEU:HD21	1.75	0.69
1:C:1035:VAL:HG12	1:C:1037:ASP:H	1.57	0.69
1:C:1046:LEU:HD13	1:C:1129:LEU:HD22	1.75	0.69
1:C:2103:TRP:CG	1:C:2104:GLN:N	2.58	0.69
1:D:2558:LEU:HG	1:D:2612:PRO:HA	1.73	0.69
1:D:2647:VAL:HG22	1:D:2769:ASP:HB2	1.75	0.69
1:E:2215:THR:HB	1:E:2229:LYS:HB2	1.73	0.69
1:A:1012:GLY:O	1:A:1013:THR:CG2	2.41	0.68
1:A:2702:GLY:HA3	1:F:2557:LEU:HG	1.76	0.68
1:B:1035:VAL:HG12	1:B:1037:ASP:H	1.57	0.68
1:C:2647:VAL:HG22	1:C:2769:ASP:HB2	1.75	0.68
1:E:1046:LEU:HD13	1:E:1129:LEU:HD22	1.75	0.68
1:F:1046:LEU:HD13	1:F:1129:LEU:HD22	1.75	0.68
1:A:1087:PHE:HB3	1:B:117:LYS:HZ3	1.57	0.68
1:C:974:THR:HG21	1:C:977:GLN:HB3	1.74	0.68
1:A:1046:LEU:HD13	1:A:1129:LEU:HD22	1.75	0.68
1:A:2946:LEU:HD11	1:A:2992:GLY:HA3	1.75	0.68
1:B:2946:LEU:HD11	1:B:2992:GLY:HA3	1.75	0.68
1:C:2909:ARG:HB3	1:D:3075:LEU:HD21	1.76	0.68
1:D:1035:VAL:HG12	1:D:1037:ASP:H	1.57	0.68
1:D:2743:ALA:HB1	1:D:2940:VAL:HG23	1.73	0.68
1:C:269:GLU:HB3	1:C:282:VAL:HA	1.75	0.68
1:D:974:THR:HG21	1:D:977:GLN:HB3	1.74	0.68
1:E:340:ILE:HD13	1:E:364:THR:HG21	1.75	0.68
1:B:511:ARG:HD3	1:B:543:GLY:HA3	1.76	0.68
1:D:340:ILE:HD13	1:D:364:THR:HG21	1.75	0.68
1:D:1008:VAL:HG22	1:D:1019:PHE:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1046:LEU:HD13	1:B:1129:LEU:HD22	1.75	0.68
1:B:3075:LEU:HD21	1:E:2909:ARG:HB3	1.75	0.68
1:E:1177:ARG:HB2	1:E:1184:LEU:HD23	1.74	0.68
1:F:2647:VAL:HG22	1:F:2769:ASP:HB2	1.75	0.68
1:A:340:ILE:HD13	1:A:364:THR:HG21	1.75	0.68
1:A:1177:ARG:HB2	1:A:1184:LEU:HD23	1.74	0.68
1:A:2085:LEU:O	1:A:2088:ARG:CG	2.41	0.68
1:B:1002:GLN:O	1:B:1003:HIS:CG	2.47	0.68
1:B:1164:THR:N	1:B:1167:GLY:O	2.25	0.68
1:C:1008:VAL:HG22	1:C:1019:PHE:HB3	1.76	0.68
1:C:1012:GLY:O	1:C:1013:THR:CG2	2.41	0.68
1:C:2702:GLY:HA3	1:D:2557:LEU:HG	1.76	0.68
1:D:511:ARG:HD3	1:D:543:GLY:HA3	1.76	0.68
1:C:1488:VAL:HG21	1:C:1580:PRO:HD2	1.76	0.68
1:D:269:GLU:HB3	1:D:282:VAL:HA	1.75	0.68
1:E:2085:LEU:O	1:E:2088:ARG:CG	2.41	0.68
1:B:269:GLU:HB3	1:B:282:VAL:HA	1.75	0.68
1:C:1164:THR:N	1:C:1167:GLY:O	2.25	0.68
1:C:2557:LEU:HG	1:D:2702:GLY:HA3	1.76	0.68
1:F:1035:VAL:HG12	1:F:1037:ASP:H	1.57	0.68
1:B:1003:HIS:CG	1:B:1004:VAL:N	2.53	0.68
1:B:1012:GLY:O	1:B:1013:THR:CG2	2.41	0.68
1:B:2557:LEU:HG	1:E:2702:GLY:HA3	1.76	0.68
1:B:2860:ALA:HB3	1:B:2906:LEU:HD21	1.73	0.68
1:D:1002:GLN:O	1:D:1003:HIS:CG	2.47	0.68
1:E:269:GLU:HB3	1:E:282:VAL:HA	1.75	0.68
1:A:2126:ALA:O	1:A:2129:PRO:CG	2.43	0.67
1:A:2647:VAL:HG22	1:A:2769:ASP:HB2	1.75	0.67
1:C:1002:GLN:O	1:C:1003:HIS:CG	2.47	0.67
1:C:2946:LEU:HD11	1:C:2992:GLY:HA3	1.75	0.67
1:E:1008:VAL:HG22	1:E:1019:PHE:HB3	1.76	0.67
1:E:2946:LEU:HD11	1:E:2992:GLY:HA3	1.75	0.67
1:B:340:ILE:HD13	1:B:364:THR:HG21	1.75	0.67
1:C:340:ILE:HD13	1:C:364:THR:HG21	1.75	0.67
1:B:2112:ARG:N	1:B:2115:HIS:CG	2.57	0.67
1:E:931:VAL:CG1	1:E:933:VAL:HG22	2.25	0.67
1:E:2112:ARG:N	1:E:2115:HIS:CG	2.57	0.67
1:F:1412:HIS:ND1	1:F:1415:GLY:O	2.26	0.67
1:F:2081:GLN:O	1:F:2084:GLN:CG	2.43	0.67
1:A:511:ARG:HD3	1:A:543:GLY:HA3	1.76	0.67
1:B:931:VAL:CG1	1:B:933:VAL:HG22	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:974:THR:HG21	1:B:977:GLN:HB3	1.74	0.67
1:B:2126:ALA:O	1:B:2129:PRO:CG	2.43	0.67
1:B:2909:ARG:HB3	1:E:3075:LEU:HD21	1.76	0.67
1:C:1003:HIS:CG	1:C:1004:VAL:N	2.53	0.67
1:D:1164:THR:N	1:D:1167:GLY:O	2.25	0.67
1:D:1488:VAL:HG21	1:D:1580:PRO:HD2	1.76	0.67
1:E:2094:HIS:CG	1:E:2096:VAL:CG2	2.75	0.67
1:F:1164:THR:N	1:F:1167:GLY:O	2.25	0.67
1:A:792:ALA:HA	1:A:799:PHE:HE2	1.60	0.67
1:C:2126:ALA:O	1:C:2129:PRO:CG	2.43	0.67
1:D:931:VAL:CG2	1:D:933:VAL:HG12	2.25	0.67
1:E:1002:GLN:O	1:E:1003:HIS:CG	2.47	0.67
1:E:2647:VAL:HG22	1:E:2769:ASP:HB2	1.75	0.67
1:F:792:ALA:HA	1:F:799:PHE:HE2	1.60	0.67
1:F:1002:GLN:O	1:F:1003:HIS:CG	2.47	0.67
1:F:1008:VAL:HG22	1:F:1019:PHE:HB3	1.76	0.67
1:C:2081:GLN:O	1:C:2084:GLN:CG	2.43	0.67
1:D:2112:ARG:N	1:D:2115:HIS:CG	2.57	0.67
1:D:2126:ALA:O	1:D:2129:PRO:CG	2.43	0.67
1:E:2081:GLN:O	1:E:2084:GLN:CG	2.43	0.67
1:B:1488:VAL:HG12	1:B:1490:ARG:NH1	2.10	0.67
1:C:931:VAL:CG1	1:C:933:VAL:HG12	2.24	0.67
1:D:3080:ARG:HH11	1:D:3080:ARG:CG	2.07	0.67
1:A:1008:VAL:HG22	1:A:1019:PHE:HB3	1.76	0.67
1:A:2081:GLN:O	1:A:2084:GLN:CG	2.43	0.67
1:C:683:GLY:HA2	1:C:700:ASN:HB2	1.77	0.67
1:C:792:ALA:HA	1:C:799:PHE:HE2	1.60	0.67
1:D:1012:GLY:O	1:D:1013:THR:CG2	2.41	0.67
1:F:269:GLU:HB3	1:F:282:VAL:HA	1.75	0.67
1:A:511:ARG:HB2	1:A:540:ASN:HB2	1.78	0.66
1:B:3080:ARG:HH11	1:B:3080:ARG:CG	2.07	0.66
1:C:1358:GLN:HG2	1:C:1423:THR:HG23	1.78	0.66
1:E:1164:THR:N	1:E:1167:GLY:O	2.25	0.66
1:E:2126:ALA:O	1:E:2129:PRO:CG	2.43	0.66
1:F:511:ARG:HB2	1:F:540:ASN:HB2	1.77	0.66
1:F:511:ARG:HD3	1:F:543:GLY:HA3	1.76	0.66
1:A:1167:GLY:HA3	1:A:1195:ARG:HA	1.78	0.66
1:B:1412:HIS:ND1	1:B:1415:GLY:O	2.26	0.66
1:B:2081:GLN:O	1:B:2084:GLN:CG	2.43	0.66
1:D:1488:VAL:HG12	1:D:1490:ARG:NH1	2.10	0.66
1:D:2081:GLN:O	1:D:2084:GLN:CG	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1358:GLN:HG2	1:E:1423:THR:HG23	1.78	0.66
1:B:666:VAL:HG21	1:B:904:VAL:HB	1.78	0.66
1:D:683:GLY:HA2	1:D:700:ASN:HB2	1.78	0.66
1:D:1167:GLY:HA3	1:D:1195:ARG:HA	1.78	0.66
1:D:1168:ARG:HB2	1:D:1197:ARG:HB2	1.77	0.66
1:A:269:GLU:HB3	1:A:282:VAL:HA	1.75	0.66
1:A:1002:GLN:O	1:A:1003:HIS:CG	2.47	0.66
1:B:511:ARG:HB2	1:B:540:ASN:HB2	1.77	0.66
1:C:1168:ARG:HB2	1:C:1197:ARG:HB2	1.77	0.66
1:F:1488:VAL:HG12	1:F:1490:ARG:NH1	2.10	0.66
1:F:1488:VAL:HG21	1:F:1580:PRO:HD2	1.77	0.66
1:A:1412:HIS:ND1	1:A:1415:GLY:O	2.25	0.66
1:A:1488:VAL:HG21	1:A:1580:PRO:HD2	1.76	0.66
1:B:1008:VAL:HG12	1:B:1019:PHE:HB3	1.76	0.66
1:D:792:ALA:HA	1:D:799:PHE:HE2	1.60	0.66
1:E:666:VAL:HG21	1:E:904:VAL:HB	1.78	0.66
1:E:1132:LEU:HD11	1:E:1192:PHE:HB3	1.78	0.66
1:E:1412:HIS:HD2	1:E:1413:PRO:HD2	1.61	0.66
1:F:666:VAL:HG21	1:F:904:VAL:HB	1.78	0.66
1:F:1412:HIS:HD2	1:F:1413:PRO:HD2	1.61	0.66
1:A:1084:THR:HG21	1:A:1274:ALA:HA	1.78	0.66
1:A:1132:LEU:HD11	1:A:1192:PHE:HB3	1.78	0.66
1:B:35:VAL:HG11	1:B:147:LEU:HB3	1.78	0.66
1:C:1167:GLY:HA3	1:C:1195:ARG:HA	1.78	0.66
1:C:1488:VAL:HG12	1:C:1490:ARG:NH1	2.10	0.66
1:B:1132:LEU:HD11	1:B:1192:PHE:HB3	1.78	0.66
1:C:997:GLU:O	1:C:1009:PRO:N	2.29	0.66
1:F:340:ILE:HD13	1:F:364:THR:HG21	1.75	0.66
1:A:997:GLU:O	1:A:1009:PRO:N	2.29	0.66
1:A:2679:ALA:HB3	1:A:2762:VAL:HG12	1.78	0.66
1:B:1167:GLY:HA3	1:B:1195:ARG:HA	1.78	0.66
1:B:1168:ARG:HB2	1:B:1197:ARG:HB2	1.77	0.66
1:C:511:ARG:HD3	1:C:543:GLY:HA3	1.76	0.66
1:D:997:GLU:O	1:D:1009:PRO:N	2.29	0.66
1:E:792:ALA:HA	1:E:799:PHE:HE2	1.60	0.66
1:E:997:GLU:O	1:E:1009:PRO:N	2.29	0.66
1:E:1167:GLY:HA3	1:E:1195:ARG:HA	1.78	0.66
1:E:2679:ALA:HB3	1:E:2762:VAL:HG12	1.78	0.66
1:A:931:VAL:CG2	1:A:933:VAL:HG22	2.25	0.66
1:C:3075:LEU:HD21	1:D:2909:ARG:HB3	1.75	0.66
1:D:35:VAL:HG11	1:D:147:LEU:HB3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:207:MET:HE2	1:F:292:VAL:HG21	1.78	0.66
1:F:931:VAL:CG2	1:F:933:VAL:HG12	2.24	0.66
1:F:2094:HIS:CG	1:F:2096:VAL:CG1	2.75	0.66
1:F:2679:ALA:HB3	1:F:2762:VAL:HG12	1.78	0.66
1:A:3075:LEU:HD21	1:F:2909:ARG:HB3	1.75	0.66
1:D:511:ARG:HB2	1:D:540:ASN:HB2	1.77	0.66
1:E:511:ARG:HB2	1:E:540:ASN:HB2	1.78	0.66
1:E:511:ARG:HD3	1:E:543:GLY:HA3	1.76	0.66
1:F:683:GLY:HA2	1:F:700:ASN:HB2	1.78	0.66
1:F:1167:GLY:HA3	1:F:1195:ARG:HA	1.78	0.66
1:F:2126:ALA:O	1:F:2129:PRO:CG	2.43	0.66
1:A:203:ASP:OD1	1:A:204:ARG:N	2.29	0.65
1:A:1358:GLN:HG2	1:A:1423:THR:HG23	1.78	0.65
1:A:2557:LEU:HG	1:F:2702:GLY:HA3	1.76	0.65
1:B:1534:ASN:HB2	1:B:1543:ALA:HB3	1.78	0.65
1:B:2679:ALA:HB3	1:B:2762:VAL:HG12	1.78	0.65
1:C:2094:HIS:CG	1:C:2096:VAL:CG2	2.75	0.65
1:C:2706:PRO:HG2	1:C:2709:ILE:HG23	1.79	0.65
1:E:1084:THR:HG21	1:E:1274:ALA:HA	1.78	0.65
1:A:1168:ARG:HB2	1:A:1197:ARG:HB2	1.77	0.65
1:C:203:ASP:OD1	1:C:204:ARG:N	2.30	0.65
1:C:1534:ASN:HB2	1:C:1543:ALA:HB3	1.79	0.65
1:D:450:ASN:HA	1:D:483:ARG:HH11	1.62	0.65
1:D:1084:THR:HG21	1:D:1274:ALA:HA	1.78	0.65
1:E:1488:VAL:HG12	1:E:1490:ARG:NH1	2.10	0.65
1:E:2706:PRO:HG2	1:E:2709:ILE:HG23	1.79	0.65
1:A:35:VAL:HG11	1:A:147:LEU:HB3	1.78	0.65
1:B:1358:GLN:HG2	1:B:1423:THR:HG23	1.78	0.65
1:C:2876:LEU:HD11	1:C:2886:ILE:HD11	1.79	0.65
1:D:643:ILE:HD12	1:D:915:PHE:HZ	1.62	0.65
1:D:1724:TYR:OH	1:E:267:GLU:OE2	2.08	0.65
1:A:683:GLY:HA2	1:A:700:ASN:HB2	1.77	0.65
1:A:1488:VAL:HG12	1:A:1490:ARG:NH1	2.10	0.65
1:B:2702:GLY:HA3	1:E:2557:LEU:HG	1.76	0.65
1:C:1412:HIS:HD2	1:C:1413:PRO:HD2	1.61	0.65
1:D:1358:GLN:HG2	1:D:1423:THR:HG23	1.78	0.65
1:E:1087:PHE:HB3	1:F:117:LYS:HZ3	1.62	0.65
1:E:2876:LEU:HD11	1:E:2886:ILE:HD11	1.79	0.65
1:A:1536:ASN:HA	1:A:1679:TRP:HB3	1.79	0.65
1:B:203:ASP:OD1	1:B:204:ARG:N	2.30	0.65
1:B:643:ILE:HD12	1:B:915:PHE:HZ	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:683:GLY:HA2	1:B:700:ASN:HB2	1.77	0.65
1:B:997:GLU:O	1:B:1009:PRO:N	2.29	0.65
1:C:1536:ASN:HA	1:C:1679:TRP:HB3	1.78	0.65
1:E:1488:VAL:HG21	1:E:1580:PRO:HD2	1.77	0.65
1:A:643:ILE:HD12	1:A:915:PHE:HZ	1.62	0.65
1:C:511:ARG:HB2	1:C:540:ASN:HB2	1.78	0.65
1:E:203:ASP:OD1	1:E:204:ARG:N	2.30	0.65
1:E:450:ASN:HA	1:E:483:ARG:HH11	1.62	0.65
1:A:1412:HIS:HD2	1:A:1413:PRO:HD2	1.61	0.65
1:B:2094:HIS:CG	1:B:2096:VAL:CG1	2.75	0.65
1:D:2679:ALA:HB3	1:D:2762:VAL:HG12	1.78	0.65
1:E:1168:ARG:HB2	1:E:1197:ARG:HB2	1.77	0.65
1:E:1534:ASN:HB2	1:E:1543:ALA:HB3	1.79	0.65
1:E:1536:ASN:HA	1:E:1679:TRP:HB3	1.79	0.65
1:F:56:LEU:HD22	1:F:119:LEU:HD13	1.79	0.65
1:F:997:GLU:O	1:F:1009:PRO:N	2.29	0.65
1:F:1132:LEU:HD11	1:F:1192:PHE:HB3	1.78	0.65
1:F:1358:GLN:HG2	1:F:1423:THR:HG23	1.78	0.65
1:A:929:GLU:O	1:A:930:PRO:CG	2.45	0.65
1:A:2652:ILE:HG12	1:A:2722:VAL:HG22	1.79	0.65
1:A:2876:LEU:HD11	1:A:2886:ILE:HD11	1.79	0.65
1:B:1084:THR:HG21	1:B:1274:ALA:HA	1.78	0.65
1:F:42:GLU:HB3	1:F:349:ARG:HG3	1.79	0.65
1:F:929:GLU:O	1:F:930:PRO:CG	2.45	0.65
1:F:1534:ASN:HB2	1:F:1543:ALA:HB3	1.78	0.65
1:A:1534:ASN:HB2	1:A:1543:ALA:HB3	1.79	0.65
1:A:2252:VAL:HA	1:A:2255:ARG:HE	1.62	0.65
1:C:1132:LEU:HD11	1:C:1192:PHE:HB3	1.78	0.65
1:C:3080:ARG:HH11	1:C:3080:ARG:CG	2.07	0.65
1:D:1412:HIS:HD2	1:D:1413:PRO:HD2	1.61	0.65
1:D:2876:LEU:HD11	1:D:2886:ILE:HD11	1.79	0.65
1:F:1168:ARG:HB2	1:F:1197:ARG:HB2	1.77	0.65
1:C:666:VAL:HG21	1:C:904:VAL:HB	1.78	0.65
1:E:35:VAL:HG11	1:E:147:LEU:HB3	1.78	0.65
1:E:643:ILE:HD12	1:E:915:PHE:HZ	1.62	0.65
1:F:1084:THR:HG21	1:F:1274:ALA:HA	1.78	0.65
1:A:56:LEU:HD22	1:A:119:LEU:HD13	1.79	0.64
1:B:929:GLU:O	1:B:930:PRO:CG	2.45	0.64
1:B:1488:VAL:HG21	1:B:1580:PRO:HD2	1.77	0.64
1:C:35:VAL:HG11	1:C:147:LEU:HB3	1.78	0.64
1:D:42:GLU:HB3	1:D:349:ARG:HG3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1534:ASN:HB2	1:D:1543:ALA:HB3	1.78	0.64
1:F:450:ASN:HA	1:F:483:ARG:HH11	1.62	0.64
1:A:117:LYS:HZ3	1:C:1087:PHE:HB3	1.62	0.64
1:A:793:ARG:HD3	1:A:2435:LEU:CG	2.27	0.64
1:A:2706:PRO:HG2	1:A:2709:ILE:HG23	1.78	0.64
1:B:1412:HIS:HD2	1:B:1413:PRO:HD2	1.61	0.64
1:D:666:VAL:HG21	1:D:904:VAL:HB	1.78	0.64
1:D:929:GLU:O	1:D:930:PRO:CG	2.45	0.64
1:D:1132:LEU:HD11	1:D:1192:PHE:HB3	1.78	0.64
1:D:2652:ILE:HG12	1:D:2722:VAL:HG22	1.79	0.64
1:E:2252:VAL:HA	1:E:2255:ARG:HE	1.62	0.64
1:F:35:VAL:HG11	1:F:147:LEU:HB3	1.78	0.64
1:B:42:GLU:HB3	1:B:349:ARG:HG3	1.79	0.64
1:B:207:MET:HE2	1:B:292:VAL:HG21	1.78	0.64
1:B:450:ASN:HA	1:B:483:ARG:HH11	1.62	0.64
1:B:792:ALA:HA	1:B:799:PHE:HE2	1.60	0.64
1:C:929:GLU:O	1:C:930:PRO:CG	2.45	0.64
1:C:2652:ILE:HG12	1:C:2722:VAL:HG22	1.79	0.64
1:D:207:MET:HE2	1:D:292:VAL:HG21	1.78	0.64
1:D:793:ARG:HD3	1:D:2435:LEU:CG	2.27	0.64
1:E:2652:ILE:HG12	1:E:2722:VAL:HG22	1.79	0.64
1:A:666:VAL:HG21	1:A:904:VAL:HB	1.78	0.64
1:C:2252:VAL:HA	1:C:2255:ARG:HE	1.62	0.64
1:E:683:GLY:HA2	1:E:700:ASN:HB2	1.77	0.64
1:F:1536:ASN:HA	1:F:1679:TRP:HB3	1.78	0.64
1:A:450:ASN:HA	1:A:483:ARG:HH11	1.62	0.64
1:A:1164:THR:N	1:A:1167:GLY:O	2.25	0.64
1:A:2112:ARG:N	1:A:2115:HIS:CG	2.57	0.64
1:C:1084:THR:HG21	1:C:1274:ALA:HA	1.78	0.64
1:F:643:ILE:HD12	1:F:915:PHE:HZ	1.62	0.64
1:F:793:ARG:HD3	1:F:2435:LEU:CG	2.27	0.64
1:F:1003:HIS:CG	1:F:1004:VAL:N	2.53	0.64
1:C:207:MET:HE2	1:C:292:VAL:HG21	1.78	0.64
1:D:203:ASP:OD1	1:D:204:ARG:N	2.29	0.64
1:E:929:GLU:O	1:E:930:PRO:CG	2.45	0.64
1:F:2112:ARG:N	1:F:2115:HIS:CG	2.57	0.64
1:B:793:ARG:HD3	1:B:2435:LEU:CG	2.27	0.64
1:C:56:LEU:HD22	1:C:119:LEU:HD13	1.79	0.64
1:C:793:ARG:HD3	1:C:2435:LEU:CG	2.27	0.64
1:D:2252:VAL:HA	1:D:2255:ARG:HE	1.62	0.64
1:D:2706:PRO:HG2	1:D:2709:ILE:HG23	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:203:ASP:OD1	1:F:204:ARG:N	2.29	0.64
1:F:2706:PRO:HG2	1:F:2709:ILE:HG23	1.79	0.64
1:F:2876:LEU:HD11	1:F:2886:ILE:HD11	1.79	0.64
1:A:207:MET:HE2	1:A:292:VAL:HG21	1.79	0.64
1:B:2176:LEU:HG	1:B:2180:LYS:HE3	1.80	0.64
1:C:42:GLU:HB3	1:C:349:ARG:HG3	1.79	0.64
1:C:360:LEU:HD12	1:C:363:LEU:HD23	1.80	0.64
1:C:450:ASN:HA	1:C:483:ARG:HH11	1.62	0.64
1:C:2679:ALA:HB3	1:C:2762:VAL:HG12	1.78	0.64
1:D:56:LEU:HD22	1:D:119:LEU:HD13	1.79	0.64
1:D:2094:HIS:CG	1:D:2096:VAL:CG1	2.75	0.64
1:E:3080:ARG:HH11	1:E:3080:ARG:CG	2.07	0.64
1:F:2176:LEU:HG	1:F:2180:LYS:HE3	1.80	0.64
1:F:2652:ILE:HG12	1:F:2722:VAL:HG22	1.79	0.64
1:A:803:GLU:OE1	1:A:2431:THR:HG22	1.98	0.64
1:B:56:LEU:HD22	1:B:119:LEU:HD13	1.79	0.64
1:B:2876:LEU:HD11	1:B:2886:ILE:HD11	1.79	0.64
1:E:56:LEU:HD22	1:E:119:LEU:HD13	1.79	0.64
1:E:500:GLN:O	1:E:504:LYS:N	2.24	0.64
1:E:803:GLU:OE1	1:E:2431:THR:HG22	1.98	0.64
1:A:42:GLU:HB3	1:A:349:ARG:HG3	1.79	0.63
1:B:1536:ASN:HA	1:B:1679:TRP:HB3	1.78	0.63
1:D:1536:ASN:HA	1:D:1679:TRP:HB3	1.79	0.63
1:B:2252:VAL:HA	1:B:2255:ARG:HE	1.62	0.63
1:C:803:GLU:OE1	1:C:2431:THR:HG22	1.98	0.63
1:A:974:THR:CG2	1:A:977:GLN:HB3	2.29	0.63
1:B:1072:TRP:NE1	1:B:1077:VAL:HG22	2.14	0.63
1:C:643:ILE:HD12	1:C:915:PHE:HZ	1.62	0.63
1:E:207:MET:HE2	1:E:292:VAL:HG21	1.78	0.63
1:E:2948:GLN:HG2	1:E:2951:ARG:HH21	1.64	0.63
1:F:2297:ARG:H	1:F:2297:ARG:HD3	1.64	0.63
1:A:3073:MET:O	1:F:2865:ARG:NH2	2.32	0.63
1:B:2652:ILE:HG12	1:B:2722:VAL:HG22	1.79	0.63
1:B:2865:ARG:NH2	1:E:3073:MET:O	2.32	0.63
1:C:2173:ASP:OD2	1:C:2799:LYS:NZ	2.32	0.63
1:E:238:SER:OG	1:E:249:THR:OG1	2.15	0.63
1:E:793:ARG:HD3	1:E:2435:LEU:CG	2.27	0.63
1:E:1376:VAL:HA	1:E:1470:LEU:HD13	1.81	0.63
1:F:1376:VAL:HA	1:F:1470:LEU:HD13	1.81	0.63
1:A:1417:LEU:O	1:A:1423:THR:OG1	2.14	0.63
1:A:2094:HIS:CG	1:A:2096:VAL:CG1	2.75	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2865:ARG:NH2	1:F:3073:MET:O	2.32	0.63
1:B:3073:MET:O	1:E:2865:ARG:NH2	2.32	0.63
1:E:1417:LEU:O	1:E:1423:THR:OG1	2.14	0.63
1:A:1622:PRO:HD3	1:A:1685:LEU:HD11	1.81	0.63
1:B:2173:ASP:OD2	1:B:2799:LYS:NZ	2.32	0.63
1:B:2706:PRO:HG2	1:B:2709:ILE:HG23	1.79	0.63
1:C:1412:HIS:ND1	1:C:1415:GLY:O	2.26	0.63
1:E:585:HIS:CD2	1:E:586:SER:H	2.17	0.63
1:E:1622:PRO:HD3	1:E:1685:LEU:HD11	1.81	0.63
1:A:939:ALA:O	1:A:940:ARG:CG	2.47	0.63
1:B:585:HIS:CD2	1:B:586:SER:H	2.17	0.63
1:B:664:LEU:HD13	1:B:701:ALA:HB1	1.81	0.63
1:C:2865:ARG:NH2	1:D:3073:MET:O	2.32	0.63
1:E:974:THR:CG2	1:E:977:GLN:HB3	2.29	0.63
1:E:1315:ARG:HH21	1:E:1323:GLU:HG2	1.64	0.63
1:F:750:LEU:HD12	1:F:827:LEU:HD11	1.81	0.63
1:F:1315:ARG:HH21	1:F:1323:GLU:HG2	1.64	0.63
1:A:585:HIS:CD2	1:A:586:SER:H	2.17	0.63
1:A:2752:ASP:HB3	1:F:2752:ASP:HB3	1.81	0.63
1:B:750:LEU:HD12	1:B:827:LEU:HD11	1.81	0.63
1:B:1315:ARG:HH21	1:B:1323:GLU:HG2	1.64	0.63
1:B:2092:THR:HA	1:B:2189:PHE:HB2	1.81	0.63
1:B:2948:GLN:HG2	1:B:2951:ARG:HH21	1.64	0.63
1:C:974:THR:CG2	1:C:977:GLN:HB3	2.29	0.63
1:C:2112:ARG:N	1:C:2115:HIS:CG	2.57	0.63
1:D:939:ALA:O	1:D:940:ARG:CG	2.47	0.63
1:D:974:THR:CG2	1:D:977:GLN:HB3	2.29	0.63
1:D:1072:TRP:NE1	1:D:1077:VAL:HG22	2.14	0.63
1:D:2176:LEU:HG	1:D:2180:LYS:HE3	1.80	0.63
1:F:585:HIS:CD2	1:F:586:SER:H	2.17	0.63
1:F:2047:THR:OG1	1:F:2205:ASP:OD2	2.17	0.63
1:F:2092:THR:HA	1:F:2189:PHE:HB2	1.81	0.63
1:A:2092:THR:HA	1:A:2189:PHE:HB2	1.81	0.63
1:B:974:THR:CG2	1:B:977:GLN:HB3	2.29	0.63
1:C:3073:MET:O	1:D:2865:ARG:NH2	2.32	0.63
1:D:750:LEU:HD12	1:D:827:LEU:HD11	1.81	0.63
1:D:2173:ASP:OD2	1:D:2799:LYS:NZ	2.32	0.63
1:D:2948:GLN:HG2	1:D:2951:ARG:HH21	1.64	0.63
1:E:360:LEU:HD12	1:E:363:LEU:HD23	1.80	0.63
1:E:2092:THR:HA	1:E:2189:PHE:HB2	1.81	0.63
1:F:803:GLU:OE1	1:F:2431:THR:HG22	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:974:THR:CG2	1:F:977:GLN:HB3	2.29	0.63
1:F:1095:LEU:HD12	1:F:1096:THR:H	1.64	0.63
1:F:2252:VAL:HA	1:F:2255:ARG:HE	1.62	0.63
1:A:2086:SER:O	1:A:2089:PHE:CG	2.52	0.62
1:A:2092:THR:HG23	1:A:2092:THR:O	1.99	0.62
1:A:2297:ARG:H	1:A:2297:ARG:HD3	1.64	0.62
1:B:803:GLU:OE1	1:B:2431:THR:HG22	1.98	0.62
1:B:1702:GLU:OE2	1:B:1711:VAL:HG13	1.99	0.62
1:B:2047:THR:OG1	1:B:2205:ASP:OD2	2.17	0.62
1:B:2086:SER:O	1:B:2089:PHE:CG	2.52	0.62
1:C:1376:VAL:HA	1:C:1470:LEU:HD13	1.81	0.62
1:D:2297:ARG:HD3	1:D:2297:ARG:H	1.64	0.62
1:E:939:ALA:O	1:E:940:ARG:CG	2.47	0.62
1:E:1702:GLU:OE2	1:E:1711:VAL:HG13	1.99	0.62
1:E:2176:LEU:HG	1:E:2180:LYS:HE3	1.80	0.62
1:A:2173:ASP:OD2	1:A:2799:LYS:NZ	2.32	0.62
1:B:939:ALA:O	1:B:940:ARG:CG	2.47	0.62
1:C:939:ALA:O	1:C:940:ARG:CG	2.47	0.62
1:C:1072:TRP:NE1	1:C:1077:VAL:HG22	2.14	0.62
1:C:1095:LEU:HD12	1:C:1096:THR:H	1.64	0.62
1:D:500:GLN:O	1:D:504:LYS:N	2.24	0.62
1:D:1376:VAL:HA	1:D:1470:LEU:HD13	1.81	0.62
1:D:2096:VAL:HG13	1:D:2097:ALA:N	2.14	0.62
1:E:1072:TRP:NE1	1:E:1077:VAL:HG22	2.14	0.62
1:E:2297:ARG:HD3	1:E:2297:ARG:H	1.64	0.62
1:A:1072:TRP:NE1	1:A:1077:VAL:HG22	2.14	0.62
1:B:2092:THR:O	1:B:2092:THR:HG23	1.99	0.62
1:C:585:HIS:CD2	1:C:586:SER:H	2.17	0.62
1:C:924:LEU:O	1:C:929:GLU:N	2.30	0.62
1:C:1315:ARG:HH21	1:C:1323:GLU:HG2	1.64	0.62
1:D:1095:LEU:HD12	1:D:1096:THR:H	1.64	0.62
1:D:1622:PRO:HD3	1:D:1685:LEU:HD11	1.81	0.62
1:E:42:GLU:HB3	1:E:349:ARG:HG3	1.79	0.62
1:E:932:GLU:O	1:E:936:ARG:CG	2.48	0.62
1:F:2096:VAL:HG13	1:F:2097:ALA:N	2.14	0.62
1:A:2748:GLU:HG2	1:F:2753:LYS:HZ2	1.64	0.62
1:B:1095:LEU:HD12	1:B:1096:THR:H	1.64	0.62
1:B:1376:VAL:HA	1:B:1470:LEU:HD13	1.81	0.62
1:B:1417:LEU:O	1:B:1423:THR:OG1	2.14	0.62
1:C:2092:THR:HG23	1:C:2092:THR:O	1.99	0.62
1:C:2753:LYS:HZ2	1:D:2748:GLU:HG2	1.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1417:LEU:O	1:D:1423:THR:OG1	2.14	0.62
1:F:939:ALA:O	1:F:940:ARG:CG	2.47	0.62
1:F:2086:SER:O	1:F:2089:PHE:CG	2.52	0.62
1:A:1315:ARG:HH21	1:A:1323:GLU:HG2	1.64	0.62
1:A:3080:ARG:HH11	1:A:3080:ARG:CG	2.07	0.62
1:B:360:LEU:HD12	1:B:363:LEU:HD23	1.80	0.62
1:B:1431:ALA:HB3	1:B:1459:THR:HG21	1.82	0.62
1:C:932:GLU:O	1:C:936:ARG:CG	2.48	0.62
1:C:1622:PRO:HD3	1:C:1685:LEU:HD11	1.81	0.62
1:D:2047:THR:OG1	1:D:2205:ASP:OD2	2.17	0.62
1:D:2086:SER:O	1:D:2089:PHE:CG	2.52	0.62
1:E:664:LEU:HD13	1:E:701:ALA:HB1	1.81	0.62
1:F:1431:ALA:HB3	1:F:1459:THR:HG21	1.82	0.62
1:A:1725:SER:HB3	1:B:260:LEU:HD13	1.82	0.62
1:B:932:GLU:O	1:B:936:ARG:CG	2.47	0.62
1:B:1725:SER:HB3	1:C:260:LEU:HD13	1.82	0.62
1:C:2047:THR:OG1	1:C:2205:ASP:OD2	2.17	0.62
1:D:932:GLU:O	1:D:936:ARG:CG	2.47	0.62
1:F:932:GLU:O	1:F:936:ARG:CG	2.48	0.62
1:F:1702:GLU:OE2	1:F:1711:VAL:HG13	1.99	0.62
1:F:2765:GLY:HA2	1:F:2940:VAL:HG21	1.82	0.62
1:A:971:ALA:O	1:A:974:THR:CG2	2.48	0.62
1:A:1431:ALA:HB3	1:A:1459:THR:HG21	1.82	0.62
1:B:2297:ARG:HD3	1:B:2297:ARG:H	1.64	0.62
1:D:803:GLU:OE1	1:D:2431:THR:HG22	1.98	0.62
1:E:2092:THR:HG23	1:E:2092:THR:O	1.99	0.62
1:F:971:ALA:O	1:F:974:THR:CG2	2.48	0.62
1:A:2047:THR:OG1	1:A:2205:ASP:OD2	2.17	0.62
1:C:2237:LEU:HB2	1:C:2287:LEU:HD11	1.82	0.62
1:D:585:HIS:CD2	1:D:586:SER:H	2.17	0.62
1:D:1315:ARG:HH21	1:D:1323:GLU:HG2	1.64	0.62
1:F:360:LEU:HD12	1:F:363:LEU:HD23	1.80	0.62
1:A:932:GLU:O	1:A:936:ARG:CG	2.48	0.62
1:A:2096:VAL:HG13	1:A:2097:ALA:N	2.14	0.62
1:B:2558:LEU:HD21	1:E:2610:ARG:HB2	1.82	0.62
1:B:2610:ARG:HB2	1:E:2558:LEU:HD21	1.82	0.62
1:B:2765:GLY:HA2	1:B:2940:VAL:HG21	1.81	0.62
1:D:664:LEU:HD13	1:D:701:ALA:HB1	1.81	0.62
1:E:1013:THR:CG2	1:E:1014:TRP:H	1.96	0.62
1:E:1695:LEU:CD2	1:F:257:ARG:HH12	2.13	0.62
1:E:2047:THR:OG1	1:E:2205:ASP:OD2	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1072:TRP:NE1	1:F:1077:VAL:HG22	2.14	0.62
1:A:1095:LEU:HD12	1:A:1096:THR:H	1.64	0.62
1:A:1702:GLU:OE2	1:A:1711:VAL:HG13	1.99	0.62
1:A:2176:LEU:HG	1:A:2180:LYS:HE3	1.80	0.62
1:B:1622:PRO:HD3	1:B:1685:LEU:HD11	1.81	0.62
1:B:2096:VAL:HG13	1:B:2097:ALA:N	2.14	0.62
1:C:971:ALA:O	1:C:974:THR:CG2	2.48	0.62
1:C:2752:ASP:HB3	1:D:2752:ASP:HB3	1.81	0.62
1:D:971:ALA:O	1:D:974:THR:CG2	2.48	0.62
1:D:2092:THR:HA	1:D:2189:PHE:HB2	1.81	0.62
1:D:3058:ARG:HB2	1:D:3089:LEU:HB2	1.82	0.62
1:F:1353:PRO:HG3	1:F:1702:GLU:OE2	2.00	0.62
1:F:2092:THR:HG23	1:F:2092:THR:O	1.99	0.62
1:A:34:LEU:H	1:A:393:VAL:HG21	1.65	0.61
1:A:360:LEU:HD12	1:A:363:LEU:HD23	1.80	0.61
1:A:1695:LEU:CD2	1:B:257:ARG:HH12	2.13	0.61
1:C:203:ASP:O	1:C:205:PRO:HD3	2.00	0.61
1:D:1412:HIS:ND1	1:D:1415:GLY:O	2.26	0.61
1:D:2237:LEU:HB2	1:D:2287:LEU:HD11	1.82	0.61
1:E:1095:LEU:HD12	1:E:1096:THR:H	1.64	0.61
1:F:34:LEU:O	1:F:38:LEU:N	2.25	0.61
1:F:2237:LEU:HB2	1:F:2287:LEU:HD11	1.82	0.61
1:A:1353:PRO:HG3	1:A:1702:GLU:OE2	2.00	0.61
1:B:34:LEU:H	1:B:393:VAL:HG21	1.65	0.61
1:B:203:ASP:O	1:B:205:PRO:HD3	2.01	0.61
1:B:680:ALA:HA	1:B:685:ALA:HB2	1.83	0.61
1:B:3058:ARG:HB2	1:B:3089:LEU:HB2	1.82	0.61
1:C:238:SER:OG	1:C:249:THR:OG1	2.15	0.61
1:C:680:ALA:HA	1:C:685:ALA:HB2	1.83	0.61
1:C:1417:LEU:O	1:C:1423:THR:OG1	2.14	0.61
1:C:2086:SER:O	1:C:2089:PHE:CG	2.52	0.61
1:D:164:ALA:HA	1:D:178:LEU:HD13	1.82	0.61
1:D:360:LEU:HD12	1:D:363:LEU:HD23	1.80	0.61
1:D:1725:SER:HB3	1:E:260:LEU:HD13	1.82	0.61
1:E:2086:SER:O	1:E:2089:PHE:CG	2.53	0.61
1:E:2173:ASP:OD2	1:E:2799:LYS:NZ	2.32	0.61
1:E:2765:GLY:HA2	1:E:2940:VAL:HG21	1.82	0.61
1:F:34:LEU:H	1:F:393:VAL:HG21	1.65	0.61
1:F:924:LEU:O	1:F:929:GLU:N	2.30	0.61
1:F:1622:PRO:HD3	1:F:1685:LEU:HD11	1.81	0.61
1:A:257:ARG:HH12	1:C:1695:LEU:CD2	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2237:LEU:HB2	1:B:2287:LEU:HD11	1.82	0.61
1:C:409:LYS:HD2	1:C:933:VAL:HA	1.82	0.61
1:C:2765:GLY:HA2	1:C:2940:VAL:HG21	1.82	0.61
1:F:203:ASP:O	1:F:205:PRO:HD3	2.00	0.61
1:F:2173:ASP:OD2	1:F:2799:LYS:NZ	2.32	0.61
1:F:2948:GLN:HG2	1:F:2951:ARG:HH21	1.64	0.61
1:A:260:LEU:HD13	1:C:1725:SER:HB3	1.82	0.61
1:A:750:LEU:HD12	1:A:827:LEU:HD11	1.81	0.61
1:A:1724:TYR:OH	1:B:267:GLU:OE2	2.07	0.61
1:A:2469:LEU:HD11	1:A:2653:VAL:HB	1.83	0.61
1:B:1695:LEU:CD2	1:C:257:ARG:HH12	2.13	0.61
1:C:34:LEU:O	1:C:38:LEU:N	2.25	0.61
1:C:2096:VAL:HG23	1:C:2097:ALA:N	2.14	0.61
1:C:2469:LEU:HD11	1:C:2653:VAL:HB	1.82	0.61
1:C:2948:GLN:HG2	1:C:2951:ARG:HH21	1.64	0.61
1:D:106:ALA:HB1	1:D:112:PRO:HB2	1.82	0.61
1:D:260:LEU:HD13	1:F:1725:SER:HB3	1.82	0.61
1:D:409:LYS:HD2	1:D:933:VAL:HA	1.82	0.61
1:D:1353:PRO:HG3	1:D:1702:GLU:OE2	2.00	0.61
1:A:664:LEU:HD13	1:A:701:ALA:HB1	1.81	0.61
1:C:511:ARG:HH11	1:C:543:GLY:HA3	1.65	0.61
1:C:1702:GLU:OE2	1:C:1711:VAL:HG13	1.99	0.61
1:C:2092:THR:HA	1:C:2189:PHE:HB2	1.81	0.61
1:C:2558:LEU:HD21	1:D:2610:ARG:HB2	1.82	0.61
1:D:2765:GLY:HA2	1:D:2940:VAL:HG21	1.82	0.61
1:E:1353:PRO:HG3	1:E:1702:GLU:OE2	2.00	0.61
1:E:2096:VAL:HG23	1:E:2097:ALA:N	2.14	0.61
1:A:438:THR:HA	1:A:880:HIS:HE1	1.66	0.61
1:A:2948:GLN:HG2	1:A:2951:ARG:HH21	1.64	0.61
1:B:438:THR:HA	1:B:880:HIS:HE1	1.66	0.61
1:B:971:ALA:O	1:B:974:THR:CG2	2.48	0.61
1:B:2334:HIS:HD2	1:B:2391:LYS:HG3	1.66	0.61
1:C:106:ALA:HB1	1:C:112:PRO:HB2	1.82	0.61
1:C:1353:PRO:HG3	1:C:1702:GLU:OE2	2.00	0.61
1:C:2297:ARG:H	1:C:2297:ARG:HD3	1.64	0.61
1:C:2372:MET:HB3	1:C:2394:LEU:HD22	1.83	0.61
1:D:257:ARG:HH12	1:F:1695:LEU:CD2	2.13	0.61
1:D:1702:GLU:OE2	1:D:1711:VAL:HG13	1.99	0.61
1:D:2212:TRP:HA	1:D:2229:LYS:HD3	1.83	0.61
1:A:511:ARG:HH11	1:A:543:GLY:HA3	1.66	0.61
1:B:511:ARG:HH11	1:B:543:GLY:HA3	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:438:THR:HA	1:C:880:HIS:HE1	1.66	0.61
1:C:3058:ARG:HB2	1:C:3089:LEU:HB2	1.82	0.61
1:D:203:ASP:O	1:D:205:PRO:HD3	2.01	0.61
1:D:680:ALA:HA	1:D:685:ALA:HB2	1.83	0.61
1:D:2092:THR:HG23	1:D:2092:THR:O	1.99	0.61
1:D:2469:LEU:HD11	1:D:2653:VAL:HB	1.82	0.61
1:E:203:ASP:O	1:E:205:PRO:HD3	2.01	0.61
1:E:488:ASN:HA	1:E:521:VAL:HB	1.83	0.61
1:E:2212:TRP:HA	1:E:2229:LYS:HD3	1.83	0.61
1:B:106:ALA:HB1	1:B:112:PRO:HB2	1.82	0.61
1:B:1353:PRO:HG3	1:B:1702:GLU:OE2	2.00	0.61
1:C:664:LEU:HD13	1:C:701:ALA:HB1	1.81	0.61
1:C:980:GLU:HB2	1:C:989:HIS:HB2	1.83	0.61
1:C:2176:LEU:HG	1:C:2180:LYS:HE3	1.80	0.61
1:D:438:THR:HA	1:D:880:HIS:HE1	1.66	0.61
1:D:924:LEU:O	1:D:929:GLU:N	2.30	0.61
1:E:750:LEU:HD12	1:E:827:LEU:HD11	1.81	0.61
1:E:1431:ALA:HB3	1:E:1459:THR:HG21	1.82	0.61
1:F:164:ALA:HA	1:F:178:LEU:HD13	1.82	0.61
1:A:1376:VAL:HA	1:A:1470:LEU:HD13	1.81	0.61
1:A:2610:ARG:HB2	1:F:2558:LEU:HD21	1.82	0.61
1:C:750:LEU:HD12	1:C:827:LEU:HD11	1.81	0.61
1:C:2212:TRP:HA	1:C:2229:LYS:HD3	1.83	0.61
1:D:488:ASN:HA	1:D:521:VAL:HB	1.83	0.61
1:D:575:HIS:HD2	1:D:644:LEU:HD22	1.66	0.61
1:F:126:VAL:HG12	1:F:182:ALA:HB1	1.83	0.61
1:F:664:LEU:HD13	1:F:701:ALA:HB1	1.81	0.61
1:F:1417:LEU:O	1:F:1423:THR:OG1	2.14	0.61
1:A:575:HIS:HD2	1:A:644:LEU:HD22	1.66	0.61
1:A:3058:ARG:HB2	1:A:3089:LEU:HB2	1.82	0.61
1:B:126:VAL:HG12	1:B:182:ALA:HB1	1.83	0.61
1:B:2752:ASP:HB3	1:E:2752:ASP:HB3	1.81	0.61
1:C:488:ASN:HA	1:C:521:VAL:HB	1.83	0.61
1:E:409:LYS:HD2	1:E:933:VAL:HA	1.82	0.61
1:E:438:THR:HA	1:E:880:HIS:HE1	1.66	0.61
1:E:575:HIS:HD2	1:E:644:LEU:HD22	1.66	0.61
1:E:2237:LEU:HB2	1:E:2287:LEU:HD11	1.82	0.61
1:E:2372:MET:HB3	1:E:2394:LEU:HD22	1.83	0.61
1:F:680:ALA:HA	1:F:685:ALA:HB2	1.83	0.61
1:F:1098:VAL:HG12	1:F:1100:ASP:H	1.66	0.61
1:A:2112:ARG:CG	1:A:2114:VAL:HG12	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:409:LYS:HD2	1:B:933:VAL:HA	1.82	0.60
1:B:2469:LEU:HD11	1:B:2653:VAL:HB	1.82	0.60
1:C:1431:ALA:HB3	1:C:1459:THR:HG21	1.82	0.60
1:C:2712:GLU:HA	1:C:2717:VAL:HG11	1.83	0.60
1:E:1725:SER:HB3	1:F:260:LEU:HD13	1.82	0.60
1:F:575:HIS:HD2	1:F:644:LEU:HD22	1.66	0.60
1:F:980:GLU:HB2	1:F:989:HIS:HB2	1.83	0.60
1:F:2334:HIS:HD2	1:F:2391:LYS:HG3	1.66	0.60
1:F:2647:VAL:HA	1:F:2650:TRP:HD1	1.66	0.60
1:F:3058:ARG:HB2	1:F:3089:LEU:HB2	1.82	0.60
1:A:2712:GLU:HA	1:A:2717:VAL:HG11	1.83	0.60
1:C:1098:VAL:HG12	1:C:1100:ASP:H	1.66	0.60
1:C:2431:THR:O	1:C:2431:THR:HG23	2.01	0.60
1:C:2749:GLU:HB3	1:D:2749:GLU:OE2	2.02	0.60
1:D:688:ARG:O	1:D:872:ARG:NE	2.34	0.60
1:E:164:ALA:HA	1:E:178:LEU:HD13	1.82	0.60
1:E:580:ARG:HG2	1:E:590:LEU:HD21	1.83	0.60
1:E:2334:HIS:HD2	1:E:2391:LYS:HG3	1.66	0.60
1:E:3058:ARG:HB2	1:E:3089:LEU:HB2	1.82	0.60
1:B:575:HIS:HD2	1:B:644:LEU:HD22	1.66	0.60
1:B:980:GLU:HB2	1:B:989:HIS:HB2	1.83	0.60
1:D:2112:ARG:CG	1:D:2114:VAL:HG12	2.31	0.60
1:E:971:ALA:O	1:E:974:THR:CG2	2.48	0.60
1:F:409:LYS:HD2	1:F:933:VAL:HA	1.82	0.60
1:F:2800:PHE:HE1	1:F:2812:LEU:HD22	1.67	0.60
1:A:488:ASN:HA	1:A:521:VAL:HB	1.83	0.60
1:A:2212:TRP:HA	1:A:2229:LYS:HD3	1.83	0.60
1:A:2372:MET:HB3	1:A:2394:LEU:HD22	1.83	0.60
1:A:2558:LEU:HD21	1:F:2610:ARG:HB2	1.82	0.60
1:B:1532:ILE:HA	1:B:1544:ILE:HG12	1.83	0.60
1:B:2372:MET:HB3	1:B:2394:LEU:HD22	1.83	0.60
1:C:126:VAL:HG12	1:C:182:ALA:HB1	1.83	0.60
1:C:1532:ILE:HA	1:C:1544:ILE:HG12	1.83	0.60
1:C:2610:ARG:HB2	1:D:2558:LEU:HD21	1.82	0.60
1:C:2647:VAL:HA	1:C:2650:TRP:HD1	1.66	0.60
1:D:511:ARG:HH11	1:D:543:GLY:HA3	1.66	0.60
1:D:1532:ILE:HA	1:D:1544:ILE:HG12	1.83	0.60
1:F:1537:LEU:HB2	1:F:1541:GLN:H	1.67	0.60
1:A:1989:PHE:HD1	1:A:1992:LYS:HZ3	1.49	0.60
1:A:2056:PHE:HZ	1:A:2180:LYS:HE2	1.67	0.60
1:C:34:LEU:H	1:C:393:VAL:HG21	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:688:ARG:O	1:C:872:ARG:NE	2.34	0.60
1:D:580:ARG:HG2	1:D:590:LEU:HD21	1.83	0.60
1:D:980:GLU:HB2	1:D:989:HIS:HB2	1.83	0.60
1:E:106:ALA:HB1	1:E:112:PRO:HB2	1.82	0.60
1:E:1412:HIS:ND1	1:E:1415:GLY:O	2.26	0.60
1:E:1537:LEU:HB2	1:E:1541:GLN:H	1.67	0.60
1:E:2820:ILE:HD13	1:E:2943:MET:HG2	1.84	0.60
1:F:544:ILE:HG22	1:F:570:LYS:HZ1	1.66	0.60
1:F:2469:LEU:HD11	1:F:2653:VAL:HB	1.82	0.60
1:A:164:ALA:HA	1:A:178:LEU:HD13	1.82	0.60
1:A:203:ASP:O	1:A:205:PRO:HD3	2.01	0.60
1:A:409:LYS:HD2	1:A:933:VAL:HA	1.82	0.60
1:A:980:GLU:HB2	1:A:989:HIS:HB2	1.83	0.60
1:A:1537:LEU:HB2	1:A:1541:GLN:H	1.67	0.60
1:A:2237:LEU:HB2	1:A:2287:LEU:HD11	1.82	0.60
1:A:2765:GLY:HA2	1:A:2940:VAL:HG21	1.82	0.60
1:B:670:GLY:O	1:B:682:ASN:ND2	2.35	0.60
1:B:688:ARG:O	1:B:872:ARG:NE	2.34	0.60
1:D:1431:ALA:HB3	1:D:1459:THR:HG21	1.82	0.60
1:A:106:ALA:HB1	1:A:112:PRO:HB2	1.82	0.60
1:A:580:ARG:HG2	1:A:590:LEU:HD21	1.83	0.60
1:C:1537:LEU:HB2	1:C:1541:GLN:H	1.67	0.60
1:D:34:LEU:H	1:D:393:VAL:HG21	1.65	0.60
1:D:670:GLY:O	1:D:682:ASN:ND2	2.35	0.60
1:D:1098:VAL:HG12	1:D:1100:ASP:H	1.66	0.60
1:D:2334:HIS:HD2	1:D:2391:LYS:HG3	1.66	0.60
1:E:1309:VAL:HG22	1:E:1331:ILE:HG12	1.84	0.60
1:E:2056:PHE:HZ	1:E:2180:LYS:HE2	1.67	0.60
1:F:580:ARG:HG2	1:F:590:LEU:HD21	1.83	0.60
1:F:2112:ARG:CG	1:F:2114:VAL:HG22	2.31	0.60
1:F:2962:ASP:OD1	1:F:2962:ASP:N	2.34	0.60
1:A:680:ALA:HA	1:A:685:ALA:HB2	1.83	0.60
1:B:34:LEU:O	1:B:38:LEU:N	2.25	0.60
1:B:687:GLY:O	1:B:695:ILE:N	2.34	0.60
1:C:687:GLY:O	1:C:695:ILE:N	2.34	0.60
1:C:1435:VAL:HG11	1:C:1463:CYS:HB3	1.84	0.60
1:C:2800:PHE:HE1	1:C:2812:LEU:HD22	1.67	0.60
1:D:687:GLY:O	1:D:695:ILE:N	2.34	0.60
1:E:2712:GLU:HA	1:E:2717:VAL:HG11	1.83	0.60
1:B:410:LEU:HB3	1:B:1025:VAL:HG21	1.84	0.60
1:B:1098:VAL:HG12	1:B:1100:ASP:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1701:VAL:HG22	1:C:1732:LEU:HB2	1.84	0.60
1:C:2056:PHE:HZ	1:C:2180:LYS:HE2	1.67	0.60
1:D:2800:PHE:HE1	1:D:2812:LEU:HD22	1.67	0.60
1:E:410:LEU:HB3	1:E:1025:VAL:HG21	1.83	0.60
1:E:670:GLY:O	1:E:682:ASN:ND2	2.35	0.60
1:E:980:GLU:HB2	1:E:989:HIS:HB2	1.83	0.60
1:F:488:ASN:HA	1:F:521:VAL:HB	1.83	0.60
1:F:511:ARG:HH11	1:F:543:GLY:HA3	1.66	0.60
1:F:2056:PHE:HZ	1:F:2180:LYS:HE2	1.67	0.60
1:A:795:HIS:HB3	1:A:799:PHE:CZ	2.37	0.60
1:A:1309:VAL:HG22	1:A:1331:ILE:HG12	1.84	0.60
1:A:1532:ILE:HA	1:A:1544:ILE:HG12	1.83	0.60
1:A:2461:VAL:HG11	1:A:2751:VAL:HG22	1.84	0.60
1:B:580:ARG:HG2	1:B:590:LEU:HD21	1.83	0.60
1:B:836:VAL:HG12	1:B:837:VAL:H	1.67	0.60
1:B:1435:VAL:HG11	1:B:1463:CYS:HB3	1.84	0.60
1:B:2431:THR:HG23	1:B:2431:THR:O	2.01	0.60
1:B:2749:GLU:OE2	1:E:2749:GLU:HB3	2.02	0.60
1:B:2800:PHE:HE1	1:B:2812:LEU:HD22	1.67	0.60
1:C:575:HIS:HD2	1:C:644:LEU:HD22	1.65	0.60
1:D:2651:ASN:HD22	1:D:2718:VAL:HG12	1.67	0.60
1:E:34:LEU:H	1:E:393:VAL:HG21	1.65	0.60
1:E:680:ALA:HA	1:E:685:ALA:HB2	1.83	0.60
1:E:795:HIS:HB3	1:E:799:PHE:CZ	2.37	0.60
1:E:2431:THR:HG23	1:E:2431:THR:O	2.01	0.60
1:F:106:ALA:HB1	1:F:112:PRO:HB2	1.82	0.60
1:F:438:THR:HA	1:F:880:HIS:HE1	1.66	0.60
1:F:2431:THR:O	1:F:2431:THR:HG23	2.01	0.60
1:F:2712:GLU:HA	1:F:2717:VAL:HG11	1.83	0.60
1:A:1098:VAL:HG12	1:A:1100:ASP:H	1.66	0.59
1:B:1013:THR:CG2	1:B:1014:TRP:N	2.58	0.59
1:B:1309:VAL:HG22	1:B:1331:ILE:HG12	1.84	0.59
1:B:2212:TRP:HA	1:B:2229:LYS:HD3	1.83	0.59
1:B:2962:ASP:OD1	1:B:2962:ASP:N	2.34	0.59
1:C:795:HIS:HB3	1:C:799:PHE:CZ	2.37	0.59
1:D:1695:LEU:CD2	1:E:257:ARG:HH12	2.13	0.59
1:D:1701:VAL:HG22	1:D:1732:LEU:HB2	1.84	0.59
1:E:2112:ARG:CG	1:E:2114:VAL:HG12	2.31	0.59
1:E:2469:LEU:HD11	1:E:2653:VAL:HB	1.82	0.59
1:E:2647:VAL:HA	1:E:2650:TRP:HD1	1.66	0.59
1:F:2820:ILE:HD13	1:F:2943:MET:HG2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:688:ARG:O	1:A:872:ARG:NE	2.34	0.59
1:B:164:ALA:HA	1:B:178:LEU:HD13	1.82	0.59
1:B:1724:TYR:OH	1:C:267:GLU:OE2	2.07	0.59
1:B:2112:ARG:CG	1:B:2114:VAL:HG12	2.31	0.59
1:B:2749:GLU:HB3	1:E:2749:GLU:OE2	2.02	0.59
1:B:2889:ILE:HG12	1:B:2922:LEU:HB3	1.84	0.59
1:C:164:ALA:HA	1:C:178:LEU:HD13	1.82	0.59
1:C:836:VAL:HG12	1:C:837:VAL:H	1.67	0.59
1:C:2334:HIS:HD2	1:C:2391:LYS:HG3	1.66	0.59
1:D:2461:VAL:HG11	1:D:2751:VAL:HG22	1.84	0.59
1:E:687:GLY:O	1:E:695:ILE:N	2.34	0.59
1:F:410:LEU:HB3	1:F:1025:VAL:HG21	1.84	0.59
1:F:836:VAL:HG12	1:F:837:VAL:H	1.67	0.59
1:F:2372:MET:HB3	1:F:2394:LEU:HD22	1.83	0.59
1:F:2651:ASN:HD22	1:F:2718:VAL:HG12	1.67	0.59
1:F:2667:THR:HG21	1:F:3058:ARG:NH1	2.17	0.59
1:A:2800:PHE:HE1	1:A:2812:LEU:HD22	1.67	0.59
1:D:1656:LYS:HG2	1:D:1660:LEU:HG	1.84	0.59
1:E:1098:VAL:HG12	1:E:1100:ASP:H	1.66	0.59
1:E:1701:VAL:HG22	1:E:1732:LEU:HB2	1.84	0.59
1:E:2180:LYS:HZ1	1:E:2962:ASP:HB3	1.67	0.59
1:F:670:GLY:O	1:F:682:ASN:ND2	2.35	0.59
1:F:2461:VAL:HG11	1:F:2751:VAL:HG22	1.84	0.59
1:A:2667:THR:HG21	1:A:3058:ARG:NH1	2.17	0.59
1:B:924:LEU:O	1:B:929:GLU:N	2.30	0.59
1:B:2651:ASN:HD22	1:B:2718:VAL:HG12	1.67	0.59
1:B:2712:GLU:HA	1:B:2717:VAL:HG11	1.84	0.59
1:C:410:LEU:HB3	1:C:1025:VAL:HG21	1.83	0.59
1:D:795:HIS:HB3	1:D:799:PHE:CZ	2.37	0.59
1:D:1435:VAL:HG11	1:D:1463:CYS:HB3	1.84	0.59
1:E:126:VAL:HG12	1:E:182:ALA:HB1	1.83	0.59
1:E:511:ARG:HH11	1:E:543:GLY:HA3	1.65	0.59
1:E:1532:ILE:HA	1:E:1544:ILE:HG12	1.83	0.59
1:F:1532:ILE:HA	1:F:1544:ILE:HG12	1.83	0.59
1:F:2521:VAL:HG13	1:F:2529:ARG:HH11	1.68	0.59
1:A:462:GLN:HG3	1:A:468:PHE:HD1	1.68	0.59
1:A:670:GLY:O	1:A:682:ASN:ND2	2.35	0.59
1:A:924:LEU:O	1:A:929:GLU:N	2.30	0.59
1:A:2753:LYS:HZ2	1:F:2748:GLU:HG2	1.67	0.59
1:A:2889:ILE:HG12	1:A:2922:LEU:HB3	1.84	0.59
1:B:1095:LEU:HD22	1:B:1289:PRO:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1989:PHE:HD1	1:C:1992:LYS:HZ3	1.50	0.59
1:D:34:LEU:O	1:D:38:LEU:N	2.25	0.59
1:D:126:VAL:HG12	1:D:182:ALA:HB1	1.83	0.59
1:D:2056:PHE:HZ	1:D:2180:LYS:HE2	1.67	0.59
1:D:2431:THR:HG23	1:D:2431:THR:O	2.01	0.59
1:D:2667:THR:HG21	1:D:3058:ARG:NH1	2.17	0.59
1:F:2403:ILE:HG23	1:F:2408:LEU:HD12	1.85	0.59
1:A:1616:PRO:HG3	1:A:1668:LEU:HD13	1.85	0.59
1:A:2431:THR:HG23	1:A:2431:THR:O	2.01	0.59
1:C:462:GLN:HG3	1:C:468:PHE:HD1	1.68	0.59
1:C:1336:VAL:HG12	1:C:1337:MET:HG3	1.85	0.59
1:C:2651:ASN:HD22	1:C:2718:VAL:HG12	1.67	0.59
1:C:2667:THR:HG21	1:C:3058:ARG:NH1	2.17	0.59
1:C:2749:GLU:OE2	1:D:2749:GLU:HB3	2.02	0.59
1:C:2752:ASP:OD2	1:D:2753:LYS:NZ	2.36	0.59
1:D:1008:VAL:HG23	1:D:1008:VAL:O	2.03	0.59
1:E:34:LEU:O	1:E:38:LEU:N	2.25	0.59
1:E:688:ARG:O	1:E:872:ARG:NE	2.34	0.59
1:B:488:ASN:HA	1:B:521:VAL:HB	1.83	0.59
1:B:2403:ILE:HG23	1:B:2408:LEU:HD12	1.85	0.59
1:C:580:ARG:HG2	1:C:590:LEU:HD21	1.83	0.59
1:C:1309:VAL:HG22	1:C:1331:ILE:HG12	1.84	0.59
1:C:2112:ARG:CG	1:C:2114:VAL:HG12	2.31	0.59
1:F:1095:LEU:HD22	1:F:1289:PRO:HA	1.85	0.59
1:F:2212:TRP:HA	1:F:2229:LYS:HD3	1.83	0.59
1:F:3080:ARG:HH11	1:F:3080:ARG:CG	2.07	0.59
1:A:687:GLY:O	1:A:695:ILE:N	2.34	0.59
1:A:2521:VAL:HG13	1:A:2529:ARG:HH11	1.68	0.59
1:A:2647:VAL:HA	1:A:2650:TRP:HD1	1.66	0.59
1:A:2651:ASN:HD22	1:A:2718:VAL:HG12	1.67	0.59
1:B:1656:LYS:HG2	1:B:1660:LEU:HG	1.84	0.59
1:B:2056:PHE:HZ	1:B:2180:LYS:HE2	1.67	0.59
1:C:670:GLY:O	1:C:682:ASN:ND2	2.35	0.59
1:C:2820:ILE:HD13	1:C:2943:MET:HG2	1.84	0.59
1:D:836:VAL:HG12	1:D:837:VAL:H	1.67	0.59
1:D:2372:MET:HB3	1:D:2394:LEU:HD22	1.83	0.59
1:E:462:GLN:HG3	1:E:468:PHE:HD1	1.68	0.59
1:E:2667:THR:HG21	1:E:3058:ARG:NH1	2.17	0.59
1:E:3080:ARG:HG3	1:E:3080:ARG:NH1	2.09	0.59
1:F:2693:GLN:O	1:F:2697:HIS:ND1	2.33	0.59
1:A:1656:LYS:HG2	1:A:1660:LEU:HG	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:462:GLN:HG3	1:B:468:PHE:HD1	1.68	0.59
1:B:2614:LYS:HZ1	1:E:2583:PHE:HD1	1.51	0.59
1:C:129:VAL:HG13	1:C:356:PRO:HG2	1.85	0.59
1:C:150:THR:O	1:C:152:PRO:HD3	2.03	0.59
1:D:2647:VAL:HA	1:D:2650:TRP:HD1	1.66	0.59
1:A:238:SER:OG	1:A:249:THR:OG1	2.16	0.59
1:A:836:VAL:HG12	1:A:837:VAL:H	1.67	0.59
1:A:1008:VAL:CG2	1:A:1019:PHE:HB3	2.33	0.59
1:A:1435:VAL:HG11	1:A:1463:CYS:HB3	1.84	0.59
1:A:2334:HIS:HD2	1:A:2391:LYS:HG3	1.66	0.59
1:B:1336:VAL:HG12	1:B:1337:MET:HG3	1.85	0.59
1:B:2012:GLY:C	1:C:2591:ARG:NH1	2.61	0.59
1:B:2647:VAL:HA	1:B:2650:TRP:HD1	1.66	0.59
1:B:2667:THR:HG21	1:B:3058:ARG:NH1	2.17	0.59
1:C:1008:VAL:HG23	1:C:1008:VAL:O	2.03	0.59
1:C:2521:VAL:HG13	1:C:2529:ARG:HH11	1.68	0.59
1:E:836:VAL:HG12	1:E:837:VAL:H	1.67	0.59
1:F:462:GLN:HG3	1:F:468:PHE:HD1	1.68	0.59
1:F:784:GLU:OE2	1:F:787:LEU:HD12	2.03	0.59
1:F:1008:VAL:CG2	1:F:1019:PHE:HB3	2.33	0.59
1:A:410:LEU:HB3	1:A:1025:VAL:HG21	1.84	0.58
1:A:2749:GLU:OE2	1:F:2749:GLU:HB3	2.02	0.58
1:B:33:ALA:O	1:B:37:ARG:N	2.35	0.58
1:B:500:GLN:O	1:B:504:LYS:N	2.24	0.58
1:B:795:HIS:HB3	1:B:799:PHE:CZ	2.37	0.58
1:B:1537:LEU:HB2	1:B:1541:GLN:H	1.67	0.58
1:B:2693:GLN:O	1:B:2697:HIS:ND1	2.33	0.58
1:C:1656:LYS:HG2	1:C:1660:LEU:HG	1.85	0.58
1:D:1537:LEU:HB2	1:D:1541:GLN:H	1.67	0.58
1:E:2461:VAL:HG11	1:E:2751:VAL:HG22	1.84	0.58
1:F:150:THR:O	1:F:152:PRO:HD3	2.03	0.58
1:F:688:ARG:O	1:F:872:ARG:NE	2.34	0.58
1:F:2889:ILE:HG12	1:F:2922:LEU:HB3	1.85	0.58
1:A:1701:VAL:HG22	1:A:1732:LEU:HB2	1.84	0.58
1:A:2753:LYS:NZ	1:F:2752:ASP:OD2	2.36	0.58
1:D:2521:VAL:HG13	1:D:2529:ARG:HH11	1.68	0.58
1:F:33:ALA:O	1:F:37:ARG:N	2.35	0.58
1:F:129:VAL:HG13	1:F:356:PRO:HG2	1.85	0.58
1:F:735:LYS:HD2	1:F:860:VAL:HG23	1.85	0.58
1:A:784:GLU:OE2	1:A:787:LEU:HD12	2.03	0.58
1:A:2012:GLY:C	1:B:2591:ARG:NH1	2.61	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1616:PRO:HG3	1:B:1668:LEU:HD13	1.85	0.58
1:C:500:GLN:O	1:C:504:LYS:N	2.24	0.58
1:C:2889:ILE:HG12	1:C:2922:LEU:HB3	1.85	0.58
1:D:150:THR:O	1:D:152:PRO:HD3	2.03	0.58
1:D:1095:LEU:HD22	1:D:1289:PRO:HA	1.85	0.58
1:D:1309:VAL:HG22	1:D:1331:ILE:HG12	1.84	0.58
1:D:2012:GLY:C	1:E:2591:ARG:NH1	2.61	0.58
1:D:2084:GLN:O	1:D:2087:GLN:CG	2.52	0.58
1:D:2820:ILE:HD13	1:D:2943:MET:HG2	1.84	0.58
1:E:1336:VAL:HG12	1:E:1337:MET:HG3	1.85	0.58
1:F:1989:PHE:HD1	1:F:1992:LYS:HZ3	1.50	0.58
1:A:2749:GLU:HB3	1:F:2749:GLU:OE2	2.02	0.58
1:B:735:LYS:HD2	1:B:860:VAL:HG23	1.86	0.58
1:B:2124:ALA:O	1:B:2127:GLU:CG	2.51	0.58
1:C:2403:ILE:HG23	1:C:2408:LEU:HD12	1.85	0.58
1:D:410:LEU:HB3	1:D:1025:VAL:HG21	1.84	0.58
1:E:784:GLU:OE2	1:E:787:LEU:HD12	2.03	0.58
1:E:1087:PHE:HB3	1:F:117:LYS:NZ	2.18	0.58
1:E:2084:GLN:O	1:E:2087:GLN:CG	2.52	0.58
1:E:2521:VAL:HG13	1:E:2529:ARG:HH11	1.68	0.58
1:F:621:SER:OG	1:F:643:ILE:HD13	2.04	0.58
1:F:795:HIS:HB3	1:F:799:PHE:CZ	2.37	0.58
1:F:1656:LYS:HG2	1:F:1660:LEU:HG	1.84	0.58
1:F:2084:GLN:O	1:F:2087:GLN:CG	2.52	0.58
1:A:2820:ILE:HD13	1:A:2943:MET:HG2	1.84	0.58
1:B:2753:LYS:NZ	1:E:2752:ASP:OD2	2.36	0.58
1:B:2820:ILE:HD13	1:B:2943:MET:HG2	1.84	0.58
1:C:784:GLU:OE2	1:C:787:LEU:HD12	2.03	0.58
1:D:129:VAL:HG13	1:D:356:PRO:HG2	1.85	0.58
1:D:2124:ALA:O	1:D:2127:GLU:CG	2.51	0.58
1:F:476:GLU:HA	1:F:479:LEU:HB2	1.86	0.58
1:B:1087:PHE:HB3	1:C:117:LYS:NZ	2.19	0.58
1:B:1327:VAL:HB	1:B:1339:ALA:HB3	1.86	0.58
1:B:2461:VAL:HG11	1:B:2751:VAL:HG22	1.84	0.58
1:C:2124:ALA:O	1:C:2127:GLU:CG	2.51	0.58
1:C:2686:MET:HE1	1:C:2935:LYS:NZ	2.19	0.58
1:C:2693:GLN:O	1:C:2697:HIS:ND1	2.33	0.58
1:D:784:GLU:OE2	1:D:787:LEU:HD12	2.04	0.58
1:D:2487:LEU:HD11	1:D:2495:LEU:HD12	1.86	0.58
1:D:2712:GLU:HA	1:D:2717:VAL:HG11	1.84	0.58
1:E:735:LYS:HD2	1:E:860:VAL:HG23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2012:GLY:C	1:F:2591:ARG:NH1	2.61	0.58
1:F:500:GLN:O	1:F:504:LYS:N	2.24	0.58
1:F:1327:VAL:HB	1:F:1339:ALA:HB3	1.86	0.58
1:F:2876:LEU:HB3	1:F:2881:VAL:HG12	1.86	0.58
1:A:33:ALA:O	1:A:37:ARG:N	2.35	0.58
1:A:126:VAL:HG12	1:A:182:ALA:HB1	1.83	0.58
1:A:621:SER:OG	1:A:643:ILE:HD13	2.04	0.58
1:A:1087:PHE:HB3	1:B:117:LYS:NZ	2.19	0.58
1:A:2246:ALA:C	1:A:2255:ARG:HH12	2.11	0.58
1:C:2084:GLN:O	1:C:2087:GLN:CG	2.52	0.58
1:C:2487:LEU:HD11	1:C:2495:LEU:HD12	1.86	0.58
1:C:2876:LEU:HB3	1:C:2881:VAL:HG12	1.86	0.58
1:D:1616:PRO:HG3	1:D:1668:LEU:HD13	1.85	0.58
1:D:2246:ALA:C	1:D:2255:ARG:HH12	2.11	0.58
1:E:127:PRO:HG3	1:E:183:GLN:HA	1.86	0.58
1:E:150:THR:O	1:E:152:PRO:HD3	2.03	0.58
1:E:924:LEU:O	1:E:929:GLU:N	2.30	0.58
1:E:1616:PRO:HG3	1:E:1668:LEU:HD13	1.85	0.58
1:E:2487:LEU:HD11	1:E:2495:LEU:HD12	1.86	0.58
1:E:2889:ILE:HG12	1:E:2922:LEU:HB3	1.84	0.58
1:F:1091:LEU:HD13	1:F:1281:ALA:HB3	1.86	0.58
1:F:2246:ALA:C	1:F:2255:ARG:HH12	2.12	0.58
1:A:127:PRO:HG3	1:A:183:GLN:HA	1.85	0.58
1:A:735:LYS:HD2	1:A:860:VAL:HG23	1.85	0.58
1:A:1008:VAL:HG23	1:A:1008:VAL:O	2.03	0.58
1:B:1008:VAL:CG1	1:B:1019:PHE:HB3	2.33	0.58
1:B:1253:ARG:HG3	1:B:1253:ARG:NH1	2.18	0.58
1:B:1701:VAL:HG22	1:B:1732:LEU:HB2	1.84	0.58
1:B:2084:GLN:O	1:B:2087:GLN:CG	2.52	0.58
1:B:2246:ALA:C	1:B:2255:ARG:HH12	2.12	0.58
1:B:2876:LEU:HB3	1:B:2881:VAL:HG12	1.86	0.58
1:C:621:SER:OG	1:C:643:ILE:HD13	2.04	0.58
1:D:238:SER:OG	1:D:249:THR:OG1	2.15	0.58
1:D:476:GLU:HA	1:D:479:LEU:HB2	1.86	0.58
1:D:1087:PHE:HB3	1:E:117:LYS:NZ	2.19	0.58
1:D:2876:LEU:HB3	1:D:2881:VAL:HG12	1.86	0.58
1:E:621:SER:OG	1:E:643:ILE:HD13	2.04	0.58
1:F:127:PRO:HG3	1:F:183:GLN:HA	1.86	0.58
1:F:511:ARG:HD2	1:F:517:ILE:O	2.04	0.58
1:A:117:LYS:NZ	1:C:1087:PHE:HB3	2.18	0.58
1:A:267:GLU:OE2	1:C:1724:TYR:OH	2.07	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2124:ALA:O	1:A:2127:GLU:CG	2.51	0.58
1:B:2753:LYS:NZ	1:E:2748:GLU:HG2	2.19	0.58
1:B:2787:THR:HA	1:B:2790:MET:HG3	1.86	0.58
1:C:476:GLU:HA	1:C:479:LEU:HB2	1.86	0.58
1:C:1008:VAL:CG2	1:C:1019:PHE:HB3	2.33	0.58
1:E:2246:ALA:C	1:E:2255:ARG:HH12	2.11	0.58
1:F:1616:PRO:HG3	1:F:1668:LEU:HD13	1.85	0.58
1:F:2124:ALA:O	1:F:2127:GLU:CG	2.51	0.58
1:A:34:LEU:O	1:A:38:LEU:N	2.25	0.58
1:A:150:THR:O	1:A:152:PRO:HD3	2.03	0.58
1:A:511:ARG:NH1	1:A:543:GLY:HA3	2.19	0.58
1:A:2591:ARG:NH1	1:C:2012:GLY:C	2.61	0.58
1:A:2787:THR:HA	1:A:2790:MET:HG3	1.86	0.58
1:B:150:THR:O	1:B:152:PRO:HD3	2.03	0.58
1:B:511:ARG:HD2	1:B:517:ILE:O	2.04	0.58
1:B:2554:ALA:HB1	1:B:2614:LYS:NZ	2.19	0.58
1:C:441:ASP:OD2	1:C:443:LYS:HB3	2.04	0.58
1:C:1538:ARG:NH1	1:C:1722:PRO:HB3	2.18	0.58
1:C:2339:TRP:HB2	1:C:2398:LEU:HD11	1.86	0.58
1:D:117:LYS:HZ3	1:F:1087:PHE:HB3	1.69	0.58
1:D:267:GLU:OE2	1:F:1724:TYR:OH	2.07	0.58
1:D:1008:VAL:CG2	1:D:1019:PHE:HB3	2.33	0.58
1:E:1010:LEU:O	1:E:1017:ILE:N	2.29	0.58
1:E:1095:LEU:HD22	1:E:1289:PRO:HA	1.85	0.58
1:E:1656:LYS:HG2	1:E:1660:LEU:HG	1.85	0.58
1:E:2787:THR:HA	1:E:2790:MET:HG3	1.86	0.58
1:E:2800:PHE:HE1	1:E:2812:LEU:HD22	1.67	0.58
1:F:687:GLY:O	1:F:695:ILE:N	2.34	0.58
1:F:1309:VAL:HG22	1:F:1331:ILE:HG12	1.84	0.58
1:A:1091:LEU:HD13	1:A:1281:ALA:HB3	1.86	0.57
1:A:1253:ARG:HG3	1:A:1253:ARG:NH1	2.18	0.57
1:A:2084:GLN:O	1:A:2087:GLN:CG	2.52	0.57
1:A:2339:TRP:HB2	1:A:2398:LEU:HD11	1.86	0.57
1:A:2554:ALA:HB1	1:A:2614:LYS:HZ2	1.67	0.57
1:C:776:ASP:O	1:C:779:TRP:N	2.31	0.57
1:D:1253:ARG:HG3	1:D:1253:ARG:NH1	2.18	0.57
1:D:2339:TRP:HB2	1:D:2398:LEU:HD11	1.86	0.57
1:D:2591:ARG:NH1	1:F:2012:GLY:C	2.61	0.57
1:E:476:GLU:HA	1:E:479:LEU:HB2	1.86	0.57
1:E:2124:ALA:O	1:E:2127:GLU:CG	2.51	0.57
1:E:2554:ALA:HB1	1:E:2614:LYS:NZ	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:341:THR:HG23	1:F:344:HIS:HD1	1.69	0.57
1:F:441:ASP:OD2	1:F:443:LYS:HB3	2.04	0.57
1:F:511:ARG:NH1	1:F:543:GLY:HA3	2.19	0.57
1:F:1008:VAL:HG23	1:F:1008:VAL:O	2.03	0.57
1:F:1336:VAL:HG12	1:F:1337:MET:HG3	1.85	0.57
1:A:1336:VAL:HG12	1:A:1337:MET:HG3	1.85	0.57
1:B:441:ASP:OD2	1:B:443:LYS:HB3	2.04	0.57
1:B:476:GLU:HA	1:B:479:LEU:HB2	1.86	0.57
1:C:511:ARG:NH1	1:C:543:GLY:HA3	2.19	0.57
1:C:1616:PRO:HG3	1:C:1668:LEU:HD13	1.85	0.57
1:D:2889:ILE:HG12	1:D:2922:LEU:HB3	1.85	0.57
1:E:511:ARG:HD2	1:E:517:ILE:O	2.04	0.57
1:E:1008:VAL:O	1:E:1008:VAL:HG23	2.03	0.57
1:E:2686:MET:HE1	1:E:2935:LYS:NZ	2.19	0.57
1:F:924:LEU:HA	1:F:928:ALA:HB3	1.86	0.57
1:F:1701:VAL:HG22	1:F:1732:LEU:HB2	1.84	0.57
1:B:2753:LYS:HZ2	1:E:2748:GLU:HG2	1.69	0.57
1:B:2845:PHE:CD1	1:E:2731:GLY:HA2	2.39	0.57
1:B:2846:ALA:HA	1:B:3001:HIS:O	2.05	0.57
1:C:2724:GLN:HG2	1:D:3001:HIS:NE2	2.19	0.57
1:D:117:LYS:NZ	1:F:1087:PHE:HB3	2.19	0.57
1:D:924:LEU:HA	1:D:928:ALA:HB3	1.87	0.57
1:D:2686:MET:HE1	1:D:2935:LYS:NZ	2.19	0.57
1:E:1008:VAL:CG2	1:E:1019:PHE:HB3	2.33	0.57
1:E:2651:ASN:HD22	1:E:2718:VAL:HG12	1.67	0.57
1:F:1538:ARG:NH1	1:F:1722:PRO:HB3	2.18	0.57
1:F:2983:LEU:HB3	1:F:2987:PHE:O	2.05	0.57
1:A:1095:LEU:HD22	1:A:1289:PRO:HA	1.85	0.57
1:B:1008:VAL:HG13	1:B:1008:VAL:O	2.03	0.57
1:B:1405:ALA:HB3	1:B:1408:VAL:HG23	1.87	0.57
1:C:735:LYS:HD2	1:C:860:VAL:HG23	1.85	0.57
1:C:1537:LEU:HD11	1:C:1714:LEU:HB3	1.86	0.57
1:C:2622:GLY:HA2	1:C:2812:LEU:HD11	1.87	0.57
1:C:2983:LEU:HB3	1:C:2987:PHE:O	2.05	0.57
1:D:462:GLN:HG3	1:D:468:PHE:HD1	1.68	0.57
1:D:1445:VAL:HG23	1:D:1448:ALA:HB2	1.87	0.57
1:D:1537:LEU:HD11	1:D:1714:LEU:HB3	1.87	0.57
1:E:2876:LEU:HB3	1:E:2881:VAL:HG12	1.86	0.57
1:E:2961:LEU:HD23	1:E:2978:ARG:HB3	1.87	0.57
1:F:2787:THR:HA	1:F:2790:MET:HG3	1.86	0.57
1:A:1327:VAL:HB	1:A:1339:ALA:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2403:ILE:HG23	1:A:2408:LEU:HD12	1.85	0.57
1:A:2583:PHE:HD1	1:F:2614:LYS:HZ1	1.52	0.57
1:C:511:ARG:HD2	1:C:517:ILE:O	2.04	0.57
1:C:1405:ALA:HB3	1:C:1408:VAL:HG23	1.87	0.57
1:D:1017:ILE:HG23	1:D:1045:VAL:HG21	1.87	0.57
1:D:1336:VAL:HG12	1:D:1337:MET:HG3	1.85	0.57
1:D:2403:ILE:HG23	1:D:2408:LEU:HD12	1.85	0.57
1:D:2846:ALA:HA	1:D:3001:HIS:O	2.05	0.57
1:E:129:VAL:HG13	1:E:356:PRO:HG2	1.85	0.57
1:E:1091:LEU:HD13	1:E:1281:ALA:HB3	1.86	0.57
1:E:2693:GLN:O	1:E:2697:HIS:ND1	2.33	0.57
1:F:776:ASP:O	1:F:779:TRP:N	2.31	0.57
1:F:1445:VAL:HG23	1:F:1448:ALA:HB2	1.87	0.57
1:F:2686:MET:HE1	1:F:2935:LYS:NZ	2.19	0.57
1:A:2753:LYS:NZ	1:F:2748:GLU:HG2	2.19	0.57
1:B:2339:TRP:HB2	1:B:2398:LEU:HD11	1.86	0.57
1:B:2521:VAL:HG13	1:B:2529:ARG:HH11	1.68	0.57
1:C:127:PRO:HG3	1:C:183:GLN:HA	1.86	0.57
1:C:924:LEU:HA	1:C:928:ALA:HB3	1.87	0.57
1:C:2709:ILE:O	1:C:2713:VAL:HG13	2.05	0.57
1:C:3001:HIS:NE2	1:D:2724:GLN:HG2	2.19	0.57
1:E:1405:ALA:HB3	1:E:1408:VAL:HG23	1.86	0.57
1:E:1435:VAL:HG11	1:E:1463:CYS:HB3	1.84	0.57
1:E:1989:PHE:HD1	1:E:1992:LYS:HZ3	1.51	0.57
1:F:2487:LEU:HD11	1:F:2495:LEU:HD12	1.86	0.57
1:A:441:ASP:OD2	1:A:443:LYS:HB3	2.04	0.57
1:A:511:ARG:HD2	1:A:517:ILE:O	2.04	0.57
1:B:776:ASP:O	1:B:779:TRP:N	2.31	0.57
1:B:784:GLU:OE2	1:B:787:LEU:HD12	2.03	0.57
1:B:924:LEU:HA	1:B:928:ALA:HB3	1.86	0.57
1:B:2748:GLU:HG2	1:E:2753:LYS:HZ2	1.69	0.57
1:B:3077:THR:O	1:E:2865:ARG:NH1	2.38	0.57
1:C:475:LEU:O	1:C:479:LEU:N	2.37	0.57
1:C:1017:ILE:HG23	1:C:1045:VAL:HG21	1.87	0.57
1:C:1327:VAL:HB	1:C:1339:ALA:HB3	1.86	0.57
1:C:2461:VAL:HG11	1:C:2751:VAL:HG22	1.84	0.57
1:D:2787:THR:HA	1:D:2790:MET:HG3	1.86	0.57
1:E:2403:ILE:HG23	1:E:2408:LEU:HD12	1.85	0.57
1:E:2846:ALA:HA	1:E:3001:HIS:O	2.05	0.57
1:F:238:SER:OG	1:F:249:THR:OG1	2.15	0.57
1:F:1435:VAL:HG11	1:F:1463:CYS:HB3	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2487:LEU:HD11	1:A:2495:LEU:HD12	1.86	0.57
1:A:2554:ALA:HB1	1:A:2614:LYS:NZ	2.19	0.57
1:A:2724:GLN:HG2	1:F:3001:HIS:NE2	2.20	0.57
1:A:2876:LEU:HB3	1:A:2881:VAL:HG12	1.86	0.57
1:A:2961:LEU:HD23	1:A:2978:ARG:HB3	1.87	0.57
1:B:1126:ILE:O	1:B:1197:ARG:CG	2.53	0.57
1:B:2686:MET:HE1	1:B:2935:LYS:NZ	2.19	0.57
1:B:2748:GLU:HG2	1:E:2753:LYS:NZ	2.19	0.57
1:B:3001:HIS:NE2	1:E:2724:GLN:HG2	2.20	0.57
1:C:2246:ALA:C	1:C:2255:ARG:HH12	2.11	0.57
1:C:2753:LYS:NZ	1:D:2752:ASP:OD2	2.36	0.57
1:D:1538:ARG:NH1	1:D:1722:PRO:HB3	2.18	0.57
1:D:2961:LEU:HD23	1:D:2978:ARG:HB3	1.87	0.57
1:E:924:LEU:HA	1:E:928:ALA:HB3	1.86	0.57
1:E:2709:ILE:O	1:E:2713:VAL:HG13	2.05	0.57
1:F:1537:LEU:HD11	1:F:1714:LEU:HB3	1.87	0.57
1:A:476:GLU:HA	1:A:479:LEU:HB2	1.86	0.57
1:A:1001:ASP:O	1:A:1002:GLN:CG	2.53	0.57
1:A:2686:MET:HE1	1:A:2935:LYS:NZ	2.19	0.57
1:A:2709:ILE:O	1:A:2713:VAL:HG13	2.05	0.57
1:A:2748:GLU:HG2	1:F:2753:LYS:NZ	2.19	0.57
1:A:2846:ALA:HA	1:A:3001:HIS:O	2.05	0.57
1:B:127:PRO:HG3	1:B:183:GLN:HA	1.86	0.57
1:B:2521:VAL:HG13	1:B:2529:ARG:NH1	2.20	0.57
1:B:2865:ARG:NH1	1:E:3077:THR:O	2.38	0.57
1:C:1445:VAL:HG23	1:C:1448:ALA:HB2	1.87	0.57
1:D:33:ALA:O	1:D:37:ARG:N	2.35	0.57
1:D:621:SER:OG	1:D:643:ILE:HD13	2.04	0.57
1:D:2554:ALA:HB1	1:D:2614:LYS:HZ2	1.70	0.57
1:D:2622:GLY:HA2	1:D:2812:LEU:HD11	1.87	0.57
1:E:511:ARG:NH1	1:E:543:GLY:HA3	2.19	0.57
1:A:129:VAL:HG13	1:A:356:PRO:HG2	1.85	0.57
1:A:475:LEU:O	1:A:479:LEU:N	2.37	0.57
1:A:1405:ALA:HB3	1:A:1408:VAL:HG23	1.86	0.57
1:A:2865:ARG:NH1	1:F:3077:THR:O	2.38	0.57
1:A:3001:HIS:NE2	1:F:2724:GLN:HG2	2.19	0.57
1:A:3077:THR:O	1:F:2865:ARG:NH1	2.38	0.57
1:C:1095:LEU:HD22	1:C:1289:PRO:HA	1.85	0.57
1:C:2748:GLU:HG2	1:D:2753:LYS:NZ	2.19	0.57
1:C:2753:LYS:NZ	1:D:2748:GLU:HG2	2.19	0.57
1:D:127:PRO:HG3	1:D:183:GLN:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:441:ASP:OD2	1:D:443:LYS:HB3	2.04	0.57
1:D:511:ARG:HD2	1:D:517:ILE:O	2.04	0.57
1:D:735:LYS:HD2	1:D:860:VAL:HG23	1.85	0.57
1:D:1126:ILE:O	1:D:1197:ARG:CG	2.53	0.57
1:D:2521:VAL:HG13	1:D:2529:ARG:NH1	2.20	0.57
1:D:2962:ASP:OD1	1:D:2962:ASP:N	2.34	0.57
1:E:1017:ILE:HG23	1:E:1045:VAL:HG21	1.87	0.57
1:F:177:GLU:HB3	1:F:317:LEU:HD13	1.87	0.57
1:F:1017:ILE:HG23	1:F:1045:VAL:HG21	1.87	0.57
1:F:2339:TRP:HB2	1:F:2398:LEU:HD11	1.86	0.57
1:F:2622:GLY:HA2	1:F:2812:LEU:HD11	1.87	0.57
1:B:2487:LEU:HD11	1:B:2495:LEU:HD12	1.86	0.56
1:B:2622:GLY:HA2	1:B:2812:LEU:HD11	1.87	0.56
1:B:2709:ILE:O	1:B:2713:VAL:HG13	2.05	0.56
1:C:2865:ARG:NH1	1:D:3077:THR:O	2.38	0.56
1:D:1327:VAL:HB	1:D:1339:ALA:HB3	1.86	0.56
1:E:441:ASP:OD2	1:E:443:LYS:HB3	2.04	0.56
1:E:1537:LEU:HD11	1:E:1714:LEU:HB3	1.86	0.56
1:F:2554:ALA:HB1	1:F:2614:LYS:NZ	2.19	0.56
1:A:1537:LEU:HD11	1:A:1714:LEU:HB3	1.87	0.56
1:A:2752:ASP:OD2	1:F:2753:LYS:NZ	2.36	0.56
1:B:621:SER:OG	1:B:643:ILE:HD13	2.04	0.56
1:C:2554:ALA:HB1	1:C:2614:LYS:NZ	2.19	0.56
1:D:1580:PRO:O	1:D:1583:SER:OG	2.23	0.56
1:D:1637:VAL:HG21	1:D:1671:TRP:CG	2.40	0.56
1:D:1989:PHE:HD1	1:D:1992:LYS:HZ3	1.53	0.56
1:D:2709:ILE:O	1:D:2713:VAL:HG13	2.05	0.56
1:E:1327:VAL:HB	1:E:1339:ALA:HB3	1.86	0.56
1:E:2521:VAL:HG13	1:E:2529:ARG:NH1	2.20	0.56
1:E:2622:GLY:HA2	1:E:2812:LEU:HD11	1.87	0.56
1:F:1001:ASP:O	1:F:1002:GLN:CG	2.53	0.56
1:F:1637:VAL:HG21	1:F:1671:TRP:CG	2.40	0.56
1:A:500:GLN:O	1:A:504:LYS:N	2.24	0.56
1:A:868:ARG:HB3	1:A:872:ARG:HH11	1.70	0.56
1:A:1637:VAL:HG21	1:A:1671:TRP:CG	2.40	0.56
1:B:490:LEU:HD23	1:B:523:SER:HB2	1.87	0.56
1:B:1091:LEU:HD13	1:B:1281:ALA:HB3	1.86	0.56
1:B:1537:LEU:HD11	1:B:1714:LEU:HB3	1.87	0.56
1:B:2724:GLN:HG2	1:E:3001:HIS:NE2	2.19	0.56
1:B:2983:LEU:HB3	1:B:2987:PHE:O	2.05	0.56
1:C:37:ARG:O	1:C:41:GLY:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2583:PHE:HD1	1:D:2614:LYS:HZ1	1.51	0.56
1:C:2846:ALA:HA	1:C:3001:HIS:O	2.05	0.56
1:C:2961:LEU:HD23	1:C:2978:ARG:HB3	1.87	0.56
1:D:177:GLU:HB3	1:D:317:LEU:HD13	1.87	0.56
1:D:475:LEU:O	1:D:479:LEU:N	2.37	0.56
1:D:511:ARG:NH1	1:D:543:GLY:HA3	2.20	0.56
1:D:776:ASP:O	1:D:779:TRP:N	2.31	0.56
1:D:868:ARG:HB3	1:D:872:ARG:HH11	1.70	0.56
1:D:1001:ASP:O	1:D:1002:GLN:CG	2.53	0.56
1:D:1405:ALA:HB3	1:D:1408:VAL:HG23	1.87	0.56
1:D:2554:ALA:HB1	1:D:2614:LYS:NZ	2.19	0.56
1:E:776:ASP:O	1:E:779:TRP:N	2.31	0.56
1:E:868:ARG:HB3	1:E:872:ARG:HH11	1.70	0.56
1:E:1126:ILE:O	1:E:1197:ARG:CG	2.53	0.56
1:E:1511:ASP:H	1:E:1514:ASP:HB2	1.71	0.56
1:E:2983:LEU:HB3	1:E:2987:PHE:O	2.05	0.56
1:F:490:LEU:HD23	1:F:523:SER:HB2	1.87	0.56
1:F:1126:ILE:O	1:F:1197:ARG:CG	2.53	0.56
1:F:1405:ALA:HB3	1:F:1408:VAL:HG23	1.86	0.56
1:F:2846:ALA:HA	1:F:3001:HIS:O	2.05	0.56
1:A:2957:PRO:HD3	1:A:2980:PRO:HB3	1.88	0.56
1:B:129:VAL:HG13	1:B:356:PRO:HG2	1.85	0.56
1:B:1637:VAL:HG21	1:B:1671:TRP:CG	2.40	0.56
1:C:1511:ASP:H	1:C:1514:ASP:HB2	1.71	0.56
1:E:37:ARG:O	1:E:41:GLY:N	2.39	0.56
1:F:1253:ARG:HG3	1:F:1253:ARG:NH1	2.18	0.56
1:F:2521:VAL:HG13	1:F:2529:ARG:NH1	2.20	0.56
1:A:1420:THR:OG1	1:A:1485:HIS:NE2	2.39	0.56
1:A:1445:VAL:HG23	1:A:1448:ALA:HB2	1.87	0.56
1:A:2521:VAL:HG13	1:A:2529:ARG:NH1	2.20	0.56
1:B:868:ARG:HB3	1:B:872:ARG:HH11	1.70	0.56
1:B:1445:VAL:HG23	1:B:1448:ALA:HB2	1.87	0.56
1:B:2752:ASP:OD2	1:E:2753:LYS:NZ	2.36	0.56
1:C:177:GLU:HB3	1:C:317:LEU:HD13	1.87	0.56
1:C:1091:LEU:HD13	1:C:1281:ALA:HB3	1.86	0.56
1:C:1637:VAL:HG21	1:C:1671:TRP:CG	2.40	0.56
1:D:2957:PRO:HD3	1:D:2980:PRO:HB3	1.88	0.56
1:F:1511:ASP:H	1:F:1514:ASP:HB2	1.71	0.56
1:F:2709:ILE:O	1:F:2713:VAL:HG13	2.05	0.56
1:A:540:ASN:HD21	1:A:544:ILE:HG13	1.71	0.56
1:A:892:ILE:HG22	2:A:4000:FMN:HM82	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:238:SER:OG	1:B:249:THR:OG1	2.15	0.56
1:B:511:ARG:NH1	1:B:543:GLY:HA3	2.19	0.56
1:B:1017:ILE:HG23	1:B:1045:VAL:HG21	1.87	0.56
1:C:868:ARG:HB3	1:C:872:ARG:HH11	1.70	0.56
1:C:1420:THR:OG1	1:C:1485:HIS:NE2	2.38	0.56
1:C:3077:THR:O	1:D:2865:ARG:NH1	2.38	0.56
1:E:1637:VAL:HG21	1:E:1671:TRP:CG	2.40	0.56
1:E:2478:ARG:NH1	1:E:2482:GLU:OE1	2.39	0.56
1:E:2481:MET:O	1:E:2959:ARG:NH2	2.39	0.56
1:F:892:ILE:HG22	2:F:4000:FMN:HM82	1.88	0.56
1:F:2481:MET:O	1:F:2959:ARG:NH2	2.39	0.56
1:A:1126:ILE:O	1:A:1197:ARG:CG	2.53	0.56
1:A:2693:GLN:O	1:A:2697:HIS:ND1	2.33	0.56
1:C:1126:ILE:O	1:C:1197:ARG:CG	2.53	0.56
1:C:2481:MET:O	1:C:2959:ARG:NH2	2.39	0.56
1:C:2521:VAL:HG13	1:C:2529:ARG:NH1	2.20	0.56
1:C:2787:THR:HA	1:C:2790:MET:HG3	1.86	0.56
1:D:1091:LEU:HD13	1:D:1281:ALA:HB3	1.86	0.56
1:A:2303:ASP:OD1	1:A:2303:ASP:N	2.39	0.56
1:A:2881:VAL:HG13	1:A:2885:ASP:HB2	1.88	0.56
1:B:540:ASN:HD21	1:B:544:ILE:HG13	1.71	0.56
1:C:1001:ASP:O	1:C:1002:GLN:CG	2.53	0.56
1:C:2957:PRO:HD3	1:C:2980:PRO:HB3	1.88	0.56
1:D:3073:MET:HE2	1:D:3089:LEU:HD11	1.88	0.56
1:E:1420:THR:OG1	1:E:1485:HIS:NE2	2.38	0.56
1:E:1618:LEU:HG	1:E:1619:VAL:HG23	1.88	0.56
1:E:2957:PRO:HD3	1:E:2980:PRO:HB3	1.88	0.56
1:A:2481:MET:O	1:A:2959:ARG:NH2	2.39	0.56
1:B:1001:ASP:O	1:B:1002:GLN:CG	2.53	0.56
1:B:2481:MET:O	1:B:2959:ARG:NH2	2.39	0.56
1:C:2303:ASP:OD1	1:C:2303:ASP:N	2.39	0.56
1:E:1001:ASP:O	1:E:1002:GLN:CG	2.53	0.56
1:E:1496:SER:HB3	1:E:1578:ASP:HB3	1.88	0.56
1:A:144:GLY:O	1:A:148:THR:N	2.34	0.56
1:A:2731:GLY:HA2	1:F:2845:PHE:CD1	2.39	0.56
1:B:37:ARG:O	1:B:41:GLY:N	2.39	0.56
1:C:42:GLU:H	1:C:42:GLU:CD	2.14	0.56
1:D:42:GLU:CD	1:D:42:GLU:H	2.14	0.56
1:D:490:LEU:HD23	1:D:523:SER:HB2	1.87	0.56
1:D:540:ASN:HD21	1:D:544:ILE:HG13	1.71	0.56
1:D:892:ILE:HG22	2:D:4000:FMN:HM82	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2481:MET:O	1:D:2959:ARG:NH2	2.39	0.56
1:D:2881:VAL:HG13	1:D:2885:ASP:HB2	1.88	0.56
1:E:490:LEU:HD23	1:E:523:SER:HB2	1.87	0.56
1:E:2743:ALA:HB3	1:E:2939:ALA:HB3	1.89	0.56
1:A:490:LEU:HD23	1:A:523:SER:HB2	1.87	0.55
1:A:924:LEU:HA	1:A:928:ALA:HB3	1.86	0.55
1:A:2962:ASP:OD1	1:A:2962:ASP:N	2.34	0.55
1:B:177:GLU:HB3	1:B:317:LEU:HD13	1.87	0.55
1:B:1538:ARG:NH1	1:B:1722:PRO:HB3	2.18	0.55
1:B:2961:LEU:HD23	1:B:2978:ARG:HB3	1.87	0.55
1:C:1618:LEU:HG	1:C:1619:VAL:HG23	1.88	0.55
1:C:2478:ARG:NH1	1:C:2482:GLU:OE1	2.39	0.55
1:C:2881:VAL:HG13	1:C:2885:ASP:HB2	1.88	0.55
1:D:1511:ASP:H	1:D:1514:ASP:HB2	1.71	0.55
1:D:2983:LEU:HB3	1:D:2987:PHE:O	2.05	0.55
1:F:144:GLY:O	1:F:148:THR:N	2.33	0.55
1:A:177:GLU:HB3	1:A:317:LEU:HD13	1.87	0.55
1:A:1017:ILE:HG23	1:A:1045:VAL:HG21	1.87	0.55
1:A:1496:SER:HB3	1:A:1578:ASP:HB3	1.89	0.55
1:B:42:GLU:CD	1:B:42:GLU:H	2.14	0.55
1:B:2731:GLY:HA2	1:E:2845:PHE:CD1	2.39	0.55
1:C:490:LEU:HD23	1:C:523:SER:HB2	1.87	0.55
1:C:540:ASN:HD21	1:C:544:ILE:HG13	1.71	0.55
1:C:892:ILE:HG22	2:C:4000:FMN:HM82	1.88	0.55
1:E:177:GLU:HB3	1:E:317:LEU:HD13	1.87	0.55
1:E:892:ILE:HG22	2:E:4000:FMN:HM82	1.88	0.55
1:E:2881:VAL:HG13	1:E:2885:ASP:HB2	1.88	0.55
1:F:868:ARG:HB3	1:F:872:ARG:HH11	1.70	0.55
1:F:2957:PRO:HD3	1:F:2980:PRO:HB3	1.88	0.55
1:A:1511:ASP:H	1:A:1514:ASP:HB2	1.71	0.55
1:B:1420:THR:OG1	1:B:1485:HIS:NE2	2.38	0.55
1:B:2478:ARG:NH1	1:B:2482:GLU:OE1	2.39	0.55
1:B:3073:MET:HE2	1:B:3089:LEU:HD11	1.88	0.55
1:C:2704:ALA:O	1:C:2705:LYS:HD3	2.07	0.55
1:D:745:THR:OG1	1:D:834:GLU:O	2.19	0.55
1:D:975:GLU:CG	1:D:976:TRP:N	2.70	0.55
1:D:2303:ASP:N	1:D:2303:ASP:OD1	2.39	0.55
1:D:2478:ARG:NH1	1:D:2482:GLU:OE1	2.39	0.55
1:E:540:ASN:HD21	1:E:544:ILE:HG13	1.71	0.55
1:F:2743:ALA:HB3	1:F:2939:ALA:HB3	1.88	0.55
1:A:975:GLU:CG	1:A:976:TRP:N	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2622:GLY:HA2	1:A:2812:LEU:HD11	1.87	0.55
1:A:2810:GLY:HA2	1:A:2896:THR:HA	1.89	0.55
1:B:892:ILE:HG22	2:B:4000:FMN:HM82	1.88	0.55
1:B:1496:SER:HB3	1:B:1578:ASP:HB3	1.88	0.55
1:C:33:ALA:O	1:C:37:ARG:N	2.35	0.55
1:E:2339:TRP:HB2	1:E:2398:LEU:HD11	1.86	0.55
1:B:2743:ALA:HB3	1:B:2939:ALA:HB3	1.88	0.55
1:C:2554:ALA:HB1	1:C:2614:LYS:HZ2	1.70	0.55
1:D:551:PRO:HG3	1:D:560:VAL:HG21	1.89	0.55
1:D:2704:ALA:O	1:D:2705:LYS:HD3	2.06	0.55
1:E:1445:VAL:HG23	1:E:1448:ALA:HB2	1.87	0.55
1:E:2704:ALA:O	1:E:2705:LYS:HD3	2.07	0.55
1:E:2810:GLY:HA2	1:E:2896:THR:HA	1.89	0.55
1:F:1420:THR:OG1	1:F:1485:HIS:NE2	2.39	0.55
1:A:2704:ALA:O	1:A:2705:LYS:HD3	2.07	0.55
1:B:975:GLU:CG	1:B:976:TRP:N	2.70	0.55
1:B:1012:GLY:C	1:B:1013:THR:HG22	2.32	0.55
1:B:2881:VAL:HG13	1:B:2885:ASP:HB2	1.88	0.55
1:C:975:GLU:CG	1:C:976:TRP:N	2.69	0.55
1:C:1253:ARG:HG3	1:C:1253:ARG:NH1	2.18	0.55
1:C:2810:GLY:HA2	1:C:2896:THR:HA	1.89	0.55
1:E:1253:ARG:HG3	1:E:1253:ARG:NH1	2.18	0.55
1:E:1734:SER:HA	1:E:1741:LEU:HD11	1.89	0.55
1:F:2478:ARG:NH1	1:F:2482:GLU:OE1	2.39	0.55
1:F:2961:LEU:HD23	1:F:2978:ARG:HB3	1.87	0.55
1:A:42:GLU:H	1:A:42:GLU:CD	2.14	0.55
1:A:2743:ALA:HB3	1:A:2939:ALA:HB3	1.88	0.55
1:A:2983:LEU:HB3	1:A:2987:PHE:O	2.05	0.55
1:B:737:TYR:HE1	1:B:862:VAL:HA	1.72	0.55
1:C:1012:GLY:C	1:C:1013:THR:HG22	2.32	0.55
1:C:1690:GLU:O	1:C:1694:GLY:N	2.40	0.55
1:D:37:ARG:O	1:D:41:GLY:N	2.39	0.55
1:E:2303:ASP:N	1:E:2303:ASP:OD1	2.39	0.55
1:F:37:ARG:O	1:F:41:GLY:N	2.39	0.55
1:F:475:LEU:O	1:F:479:LEU:N	2.38	0.55
1:F:1496:SER:HB3	1:F:1578:ASP:HB3	1.88	0.55
1:A:580:ARG:HH11	1:A:614:GLY:HA3	1.72	0.55
1:A:1690:GLU:O	1:A:1694:GLY:N	2.40	0.55
1:A:1734:SER:HA	1:A:1741:LEU:HD11	1.89	0.55
1:B:1511:ASP:H	1:B:1514:ASP:HB2	1.70	0.55
1:E:975:GLU:CG	1:E:976:TRP:N	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1357:ILE:HG13	1:E:1710:THR:HG21	1.89	0.55
1:E:2458:ALA:HA	1:E:2824:ARG:HD2	1.89	0.55
1:F:1690:GLU:O	1:F:1694:GLY:N	2.40	0.55
1:F:2704:ALA:O	1:F:2705:LYS:HD3	2.07	0.55
1:A:1357:ILE:HG13	1:A:1710:THR:HG21	1.89	0.55
1:C:551:PRO:HG3	1:C:560:VAL:HG21	1.89	0.55
1:D:2417:SER:O	1:D:2421:ASP:N	2.40	0.55
1:F:975:GLU:CG	1:F:976:TRP:N	2.70	0.55
1:A:37:ARG:O	1:A:41:GLY:N	2.39	0.55
1:A:3073:MET:HE2	1:A:3089:LEU:HD11	1.88	0.55
1:B:2704:ALA:O	1:B:2705:LYS:HD3	2.07	0.55
1:B:2957:PRO:HD3	1:B:2980:PRO:HB3	1.88	0.55
1:C:2845:PHE:CD1	1:D:2731:GLY:HA2	2.39	0.55
1:D:2743:ALA:HB3	1:D:2939:ALA:HB3	1.88	0.55
1:E:42:GLU:H	1:E:42:GLU:CD	2.14	0.55
1:E:475:LEU:O	1:E:479:LEU:N	2.37	0.55
1:E:2337:ILE:HG23	1:E:2369:MET:HE2	1.89	0.55
1:A:2478:ARG:NH1	1:A:2482:GLU:OE1	2.39	0.54
1:B:475:LEU:O	1:B:479:LEU:N	2.37	0.54
1:B:1690:GLU:O	1:B:1694:GLY:N	2.40	0.54
1:D:176:VAL:O	1:D:180:ALA:N	2.36	0.54
1:E:1690:GLU:O	1:E:1694:GLY:N	2.40	0.54
1:E:3073:MET:HE2	1:E:3089:LEU:HD11	1.88	0.54
1:F:2303:ASP:OD1	1:F:2303:ASP:N	2.39	0.54
1:B:2458:ALA:HA	1:B:2824:ARG:HD2	1.89	0.54
1:D:737:TYR:HE1	1:D:862:VAL:HA	1.72	0.54
1:E:33:ALA:O	1:E:37:ARG:N	2.35	0.54
1:E:737:TYR:HE1	1:E:862:VAL:HA	1.72	0.54
1:F:1618:LEU:HG	1:F:1619:VAL:HG23	1.88	0.54
1:A:2458:ALA:HA	1:A:2824:ARG:HD2	1.89	0.54
1:B:551:PRO:HG3	1:B:560:VAL:HG21	1.89	0.54
1:B:931:VAL:HG13	1:B:933:VAL:CG2	2.37	0.54
1:C:737:TYR:HE1	1:C:862:VAL:HA	1.72	0.54
1:C:763:SER:O	1:C:766:ASP:N	2.41	0.54
1:C:1496:SER:HB3	1:C:1578:ASP:HB3	1.89	0.54
1:D:668:THR:OG1	1:D:698:ILE:HD11	2.08	0.54
1:D:931:VAL:HG23	1:D:933:VAL:CG1	2.37	0.54
1:E:580:ARG:HH11	1:E:614:GLY:HA3	1.73	0.54
1:F:1734:SER:HA	1:F:1741:LEU:HD11	1.89	0.54
1:A:763:SER:O	1:A:766:ASP:N	2.41	0.54
1:B:2860:ALA:HB1	1:B:3005:LEU:HD13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:580:ARG:HH11	1:C:614:GLY:HA3	1.73	0.54
1:C:931:VAL:HG13	1:C:933:VAL:CG1	2.37	0.54
1:C:2458:ALA:HA	1:C:2824:ARG:HD2	1.89	0.54
1:D:1690:GLU:O	1:D:1694:GLY:N	2.40	0.54
1:D:1734:SER:HA	1:D:1741:LEU:HD11	1.89	0.54
1:F:540:ASN:HD21	1:F:544:ILE:HG13	1.71	0.54
1:F:2458:ALA:HA	1:F:2824:ARG:HD2	1.89	0.54
1:F:2881:VAL:HG13	1:F:2885:ASP:HB2	1.88	0.54
1:A:551:PRO:HG3	1:A:560:VAL:HG21	1.89	0.54
1:A:1618:LEU:HG	1:A:1619:VAL:HG23	1.88	0.54
1:B:1226:ARG:HB3	1:B:1282:THR:HG21	1.90	0.54
1:C:2631:PRO:HG3	1:C:2649:LEU:HD13	1.90	0.54
1:D:763:SER:O	1:D:766:ASP:N	2.41	0.54
1:D:1496:SER:HB3	1:D:1578:ASP:HB3	1.89	0.54
1:E:1012:GLY:C	1:E:1013:THR:HG22	2.32	0.54
1:F:42:GLU:H	1:F:42:GLU:CD	2.15	0.54
1:F:668:THR:OG1	1:F:698:ILE:HD11	2.08	0.54
1:B:668:THR:OG1	1:B:698:ILE:HD11	2.08	0.54
1:B:2337:ILE:HG23	1:B:2369:MET:HE2	1.90	0.54
1:C:273:ARG:HD2	1:C:282:VAL:HG12	1.90	0.54
1:C:716:ALA:HA	1:C:719:VAL:HG23	1.90	0.54
1:C:2337:ILE:HG23	1:C:2369:MET:HE2	1.90	0.54
1:C:2731:GLY:HA2	1:D:2845:PHE:CD1	2.39	0.54
1:D:580:ARG:HH11	1:D:614:GLY:HA3	1.72	0.54
1:D:2551:PRO:O	1:D:2617:LEU:HB2	2.08	0.54
1:E:668:THR:OG1	1:E:698:ILE:HD11	2.08	0.54
1:A:776:ASP:O	1:A:779:TRP:N	2.31	0.54
1:A:2337:ILE:HG23	1:A:2369:MET:HE2	1.90	0.54
1:A:2845:PHE:CD1	1:F:2731:GLY:HA2	2.39	0.54
1:B:1010:LEU:O	1:B:1017:ILE:N	2.29	0.54
1:B:2551:PRO:O	1:B:2617:LEU:HB2	2.08	0.54
1:B:2768:ASP:OD2	1:B:2936:GLY:N	2.41	0.54
1:C:2743:ALA:HB3	1:C:2939:ALA:HB3	1.88	0.54
1:C:3073:MET:HE2	1:C:3089:LEU:HD11	1.88	0.54
1:D:273:ARG:HD2	1:D:282:VAL:HG12	1.90	0.54
1:D:2693:GLN:O	1:D:2697:HIS:ND1	2.33	0.54
1:D:2810:GLY:HA2	1:D:2896:THR:HA	1.88	0.54
1:E:368:ILE:HG21	1:E:373:ILE:HG13	1.90	0.54
1:E:551:PRO:HG3	1:E:560:VAL:HG21	1.89	0.54
1:A:1226:ARG:HB3	1:A:1282:THR:HG21	1.90	0.54
1:A:2551:PRO:O	1:A:2617:LEU:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:763:SER:O	1:B:766:ASP:N	2.41	0.54
1:B:2492:VAL:HG21	1:B:2527:VAL:HG22	1.90	0.54
1:B:2810:GLY:HA2	1:B:2896:THR:HA	1.88	0.54
1:D:1618:LEU:HG	1:D:1619:VAL:HG23	1.88	0.54
1:E:2551:PRO:O	1:E:2617:LEU:HB2	2.08	0.54
1:F:737:TYR:HE1	1:F:862:VAL:HA	1.72	0.54
1:F:792:ALA:HA	1:F:799:PHE:CE2	2.43	0.54
1:F:1013:THR:CG2	1:F:1014:TRP:N	2.58	0.54
1:F:3073:MET:HE2	1:F:3089:LEU:HD11	1.88	0.54
1:A:2492:VAL:HG21	1:A:2527:VAL:HG22	1.90	0.54
1:A:2768:ASP:OD2	1:A:2936:GLY:N	2.41	0.54
1:B:456:GLU:HG2	1:B:486:GLN:HE21	1.73	0.54
1:B:1618:LEU:HG	1:B:1619:VAL:HG23	1.88	0.54
1:B:2303:ASP:N	1:B:2303:ASP:OD1	2.39	0.54
1:B:3018:LEU:O	1:B:3022:GLU:HB2	2.08	0.54
1:C:1151:GLU:HB2	1:C:1179:ALA:HB3	1.90	0.54
1:C:2768:ASP:OD2	1:C:2936:GLY:N	2.41	0.54
1:D:1357:ILE:HG13	1:D:1710:THR:HG21	1.89	0.54
1:D:2860:ALA:HB1	1:D:3005:LEU:HD13	1.90	0.54
1:D:3018:LEU:O	1:D:3022:GLU:HB2	2.08	0.54
1:E:1151:GLU:HB2	1:E:1179:ALA:HB3	1.90	0.54
1:F:580:ARG:HH11	1:F:614:GLY:HA3	1.73	0.54
1:A:624:TYR:HA	1:A:629:TRP:CD1	2.43	0.54
1:A:716:ALA:HA	1:A:719:VAL:HG23	1.90	0.54
1:B:2631:PRO:HG3	1:B:2649:LEU:HD13	1.90	0.54
1:C:624:TYR:HA	1:C:629:TRP:CD1	2.43	0.54
1:C:1580:PRO:O	1:C:1583:SER:OG	2.23	0.54
1:C:1734:SER:HA	1:C:1741:LEU:HD11	1.89	0.54
1:D:716:ALA:HA	1:D:719:VAL:HG23	1.90	0.54
1:F:931:VAL:HG23	1:F:933:VAL:CG1	2.37	0.54
1:F:2860:ALA:HB1	1:F:3005:LEU:HD13	1.90	0.54
1:A:668:THR:OG1	1:A:698:ILE:HD11	2.08	0.53
1:A:737:TYR:HE1	1:A:862:VAL:HA	1.72	0.53
1:A:745:THR:HG23	1:A:834:GLU:HA	1.90	0.53
1:B:273:ARG:HD2	1:B:282:VAL:HG12	1.90	0.53
1:C:1488:VAL:HG12	1:C:1490:ARG:HH11	1.73	0.53
1:C:2614:LYS:HZ1	1:D:2583:PHE:HD1	1.51	0.53
1:D:624:TYR:HA	1:D:629:TRP:CD1	2.43	0.53
1:D:2911:ALA:HA	1:D:2914:MET:HE2	1.90	0.53
1:E:33:ALA:O	1:E:37:ARG:HG2	2.08	0.53
1:E:526:ILE:HD12	1:E:549:PHE:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2860:ALA:HB1	1:E:3005:LEU:HD13	1.90	0.53
1:F:526:ILE:HD12	1:F:549:PHE:HB3	1.90	0.53
1:F:763:SER:O	1:F:766:ASP:N	2.41	0.53
1:F:3018:LEU:O	1:F:3022:GLU:HB2	2.08	0.53
1:B:745:THR:HG23	1:B:834:GLU:HA	1.90	0.53
1:B:1151:GLU:HB2	1:B:1179:ALA:HB3	1.90	0.53
1:C:668:THR:OG1	1:C:698:ILE:HD11	2.08	0.53
1:C:1089:ALA:O	1:C:1091:LEU:N	2.41	0.53
1:D:33:ALA:O	1:D:37:ARG:HG2	2.08	0.53
1:D:745:THR:HG23	1:D:834:GLU:HA	1.90	0.53
1:D:1089:ALA:O	1:D:1091:LEU:N	2.42	0.53
1:D:2927:GLN:HE22	1:D:2941:PHE:C	2.17	0.53
1:E:2417:SER:O	1:E:2421:ASP:N	2.40	0.53
1:E:2631:PRO:HG3	1:E:2649:LEU:HD13	1.90	0.53
1:E:3018:LEU:O	1:E:3022:GLU:HB2	2.08	0.53
1:F:1151:GLU:HB2	1:F:1179:ALA:HB3	1.90	0.53
1:F:1226:ARG:HB3	1:F:1282:THR:HG21	1.90	0.53
1:F:2417:SER:O	1:F:2421:ASP:N	2.40	0.53
1:A:1089:ALA:O	1:A:1091:LEU:N	2.42	0.53
1:A:1323:GLU:N	1:A:1343:LEU:O	2.41	0.53
1:A:2860:ALA:HB1	1:A:3005:LEU:HD13	1.90	0.53
1:B:526:ILE:HD12	1:B:549:PHE:HB3	1.90	0.53
1:C:456:GLU:HG2	1:C:486:GLN:HE21	1.73	0.53
1:C:2492:VAL:HG21	1:C:2527:VAL:HG22	1.90	0.53
1:D:1425:VAL:HG13	1:D:1474:LEU:HD13	1.91	0.53
1:F:2337:ILE:HG23	1:F:2369:MET:HE2	1.90	0.53
1:F:2768:ASP:OD2	1:F:2936:GLY:N	2.41	0.53
1:A:368:ILE:HG21	1:A:373:ILE:HG13	1.90	0.53
1:C:1530:LEU:HD21	1:C:1554:LEU:HD22	1.91	0.53
1:C:2551:PRO:O	1:C:2617:LEU:HB2	2.08	0.53
1:D:2103:TRP:CG	1:D:2919:GLY:O	2.62	0.53
1:E:1323:GLU:N	1:E:1343:LEU:O	2.41	0.53
1:E:2554:ALA:HB1	1:E:2614:LYS:HZ2	1.73	0.53
1:F:551:PRO:HG3	1:F:560:VAL:HG21	1.89	0.53
1:F:1357:ILE:HG13	1:F:1710:THR:HG21	1.89	0.53
1:A:71:GLU:HG2	1:A:142:ARG:NH2	2.24	0.53
1:A:273:ARG:HD2	1:A:282:VAL:HG12	1.90	0.53
1:A:456:GLU:HG2	1:A:486:GLN:HE21	1.73	0.53
1:A:1148:GLU:O	1:A:1150:ALA:N	2.42	0.53
1:B:2103:TRP:CG	1:B:2919:GLY:O	2.62	0.53
1:C:71:GLU:HG2	1:C:142:ARG:NH2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1010:LEU:O	1:C:1017:ILE:N	2.29	0.53
1:D:1420:THR:OG1	1:D:1485:HIS:NE2	2.38	0.53
1:D:2418:GLY:O	1:D:2422:GLU:N	2.40	0.53
1:D:2631:PRO:HG3	1:D:2649:LEU:HD13	1.90	0.53
1:A:588:GLU:HB3	1:A:593:LEU:HD11	1.91	0.53
1:A:931:VAL:HG23	1:A:933:VAL:CG2	2.37	0.53
1:A:1174:VAL:HB	1:A:1188:LEU:HB3	1.91	0.53
1:B:580:ARG:HH11	1:B:614:GLY:HA3	1.72	0.53
1:B:624:TYR:HA	1:B:629:TRP:CD1	2.43	0.53
1:B:1580:PRO:O	1:B:1583:SER:OG	2.22	0.53
1:C:2087:GLN:HA	1:C:2090:GLU:CG	2.39	0.53
1:C:2860:ALA:HB1	1:C:3005:LEU:HD13	1.90	0.53
1:D:1012:GLY:C	1:D:1013:THR:HG22	2.32	0.53
1:D:1226:ARG:HB3	1:D:1282:THR:HG21	1.90	0.53
1:E:1174:VAL:HB	1:E:1188:LEU:HB3	1.91	0.53
1:E:2768:ASP:OD2	1:E:2936:GLY:N	2.41	0.53
1:F:624:TYR:HA	1:F:629:TRP:CD1	2.43	0.53
1:F:1010:LEU:O	1:F:1017:ILE:N	2.30	0.53
1:F:1089:ALA:O	1:F:1091:LEU:N	2.42	0.53
1:F:1530:LEU:HD21	1:F:1554:LEU:HD22	1.91	0.53
1:F:2810:GLY:HA2	1:F:2896:THR:HA	1.89	0.53
1:A:2103:TRP:CG	1:A:2919:GLY:O	2.62	0.53
1:B:1148:GLU:O	1:B:1150:ALA:N	2.42	0.53
1:B:1357:ILE:HG13	1:B:1710:THR:HG21	1.89	0.53
1:C:526:ILE:HD12	1:C:549:PHE:HB3	1.90	0.53
1:C:1357:ILE:HG13	1:C:1710:THR:HG21	1.89	0.53
1:C:1425:VAL:HG13	1:C:1474:LEU:HD13	1.91	0.53
1:D:456:GLU:HG2	1:D:486:GLN:HE21	1.73	0.53
1:D:2337:ILE:HG23	1:D:2369:MET:HE2	1.90	0.53
1:E:624:TYR:HA	1:E:629:TRP:CD1	2.43	0.53
1:F:273:ARG:HD2	1:F:282:VAL:HG12	1.90	0.53
1:F:2103:TRP:CG	1:F:2919:GLY:O	2.62	0.53
1:F:3080:ARG:HG3	1:F:3080:ARG:NH1	2.09	0.53
1:A:1225:ARG:CG	1:A:1283:ASP:OD1	2.57	0.53
1:A:1425:VAL:HG13	1:A:1474:LEU:HD13	1.91	0.53
1:A:1538:ARG:NH1	1:A:1722:PRO:HB3	2.18	0.53
1:A:1634:ARG:HD2	1:A:1638:PRO:HA	1.91	0.53
1:A:2087:GLN:HA	1:A:2090:GLU:CG	2.39	0.53
1:A:2089:PHE:HA	1:A:2188:ARG:HH11	1.74	0.53
1:B:368:ILE:HG21	1:B:373:ILE:HG13	1.90	0.53
1:D:1530:LEU:HD21	1:D:1554:LEU:HD22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2418:GLY:O	1:E:2422:GLU:N	2.40	0.53
1:E:2911:ALA:HA	1:E:2914:MET:HE2	1.91	0.53
1:E:2927:GLN:HE22	1:E:2941:PHE:C	2.17	0.53
1:F:1148:GLU:O	1:F:1150:ALA:N	2.42	0.53
1:F:1733:ASN:HD22	1:F:1736:ARG:HD2	1.74	0.53
1:F:2631:PRO:HG3	1:F:2649:LEU:HD13	1.90	0.53
1:B:88:SER:HG	1:B:311:TRP:CD1	2.27	0.53
1:B:2554:ALA:HB1	1:B:2614:LYS:HZ2	1.73	0.53
1:C:368:ILE:HG21	1:C:373:ILE:HG13	1.90	0.53
1:C:2927:GLN:HE22	1:C:2941:PHE:C	2.17	0.53
1:D:2087:GLN:HA	1:D:2090:GLU:CG	2.39	0.53
1:E:931:VAL:HG13	1:E:933:VAL:CG2	2.37	0.53
1:E:1148:GLU:O	1:E:1150:ALA:N	2.42	0.53
1:E:1425:VAL:HG13	1:E:1474:LEU:HD13	1.91	0.53
1:F:71:GLU:HG2	1:F:142:ARG:NH2	2.24	0.53
1:F:716:ALA:HA	1:F:719:VAL:HG23	1.90	0.53
1:A:2927:GLN:HE22	1:A:2941:PHE:C	2.17	0.53
1:A:3018:LEU:O	1:A:3022:GLU:HB2	2.08	0.53
1:C:745:THR:HG23	1:C:834:GLU:HA	1.90	0.53
1:D:1634:ARG:HD2	1:D:1638:PRO:HA	1.91	0.53
1:D:2740:CYS:HB2	1:D:2998:GLY:HA2	1.91	0.53
1:E:745:THR:OG1	1:E:834:GLU:O	2.19	0.53
1:E:763:SER:O	1:E:766:ASP:N	2.41	0.53
1:E:2492:VAL:HG21	1:E:2527:VAL:HG22	1.90	0.53
1:F:745:THR:HG23	1:F:834:GLU:HA	1.90	0.53
1:A:1012:GLY:C	1:A:1013:THR:HG22	2.32	0.52
1:A:2737:VAL:HG21	1:F:2715:PRO:HB2	1.91	0.52
1:A:2911:ALA:HA	1:A:2914:MET:HE2	1.90	0.52
1:B:411:PRO:HD2	1:B:1025:VAL:HG11	1.91	0.52
1:B:1089:ALA:O	1:B:1091:LEU:N	2.41	0.52
1:B:1734:SER:HA	1:B:1741:LEU:HD11	1.89	0.52
1:B:2583:PHE:HD1	1:E:2614:LYS:HZ1	1.51	0.52
1:C:1174:VAL:HB	1:C:1188:LEU:HB3	1.91	0.52
1:D:1151:GLU:HB2	1:D:1179:ALA:HB3	1.90	0.52
1:E:1226:ARG:HB3	1:E:1282:THR:HG21	1.90	0.52
1:E:1488:VAL:HG12	1:E:1490:ARG:HH11	1.73	0.52
1:E:2215:THR:HG22	1:E:2216:GLU:HG3	1.91	0.52
1:F:208:VAL:HG12	1:F:248:ILE:HG12	1.91	0.52
1:F:1323:GLU:N	1:F:1343:LEU:O	2.41	0.52
1:F:2551:PRO:O	1:F:2617:LEU:HB2	2.08	0.52
1:A:1010:LEU:O	1:A:1017:ILE:N	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:33:ALA:O	1:B:37:ARG:HG2	2.08	0.52
1:B:1225:ARG:CG	1:B:1283:ASP:OD1	2.57	0.52
1:B:1323:GLU:N	1:B:1343:LEU:O	2.42	0.52
1:C:33:ALA:O	1:C:37:ARG:HG2	2.08	0.52
1:C:3018:LEU:O	1:C:3022:GLU:HB2	2.08	0.52
1:D:961:ARG:NH2	1:D:1196:GLY:O	2.42	0.52
1:D:1323:GLU:N	1:D:1343:LEU:O	2.41	0.52
1:D:2458:ALA:HA	1:D:2824:ARG:HD2	1.89	0.52
1:E:71:GLU:HG2	1:E:142:ARG:NH2	2.24	0.52
1:E:273:ARG:HD2	1:E:282:VAL:HG12	1.90	0.52
1:E:456:GLU:HG2	1:E:486:GLN:HE21	1.73	0.52
1:E:2087:GLN:HA	1:E:2090:GLU:CG	2.39	0.52
1:F:368:ILE:HG21	1:F:373:ILE:HG13	1.90	0.52
1:F:1012:GLY:C	1:F:1013:THR:HG22	2.32	0.52
1:F:1225:ARG:CG	1:F:1283:ASP:OD1	2.57	0.52
1:A:2215:THR:HG22	1:A:2216:GLU:HG3	1.91	0.52
1:B:961:ARG:NH2	1:B:1196:GLY:O	2.42	0.52
1:B:1733:ASN:HD22	1:B:1736:ARG:HD2	1.74	0.52
1:D:368:ILE:HG21	1:D:373:ILE:HG13	1.90	0.52
1:D:411:PRO:HD2	1:D:1025:VAL:HG11	1.91	0.52
1:D:526:ILE:HD12	1:D:549:PHE:HB3	1.90	0.52
1:E:411:PRO:HD2	1:E:1025:VAL:HG11	1.91	0.52
1:E:1634:ARG:HD2	1:E:1638:PRO:HA	1.91	0.52
1:E:2103:TRP:CG	1:E:2919:GLY:O	2.62	0.52
1:F:456:GLU:HG2	1:F:486:GLN:HE21	1.73	0.52
1:F:588:GLU:HB3	1:F:593:LEU:HD11	1.91	0.52
1:F:1093:PRO:HB3	1:F:1277:HIS:HE1	1.75	0.52
1:F:2087:GLN:HA	1:F:2090:GLU:CG	2.39	0.52
1:F:2492:VAL:HG21	1:F:2527:VAL:HG22	1.90	0.52
1:A:208:VAL:HB	1:A:255:LEU:HD13	1.92	0.52
1:A:930:PRO:CG	1:A:930:PRO:O	2.57	0.52
1:A:1151:GLU:HB2	1:A:1179:ALA:HB3	1.90	0.52
1:A:2631:PRO:HG3	1:A:2649:LEU:HD13	1.90	0.52
1:B:1174:VAL:HB	1:B:1188:LEU:HB3	1.91	0.52
1:B:1488:VAL:HG12	1:B:1490:ARG:HH11	1.73	0.52
1:C:1733:ASN:HD22	1:C:1736:ARG:HD2	1.74	0.52
1:C:2715:PRO:HB2	1:D:2737:VAL:HG21	1.92	0.52
1:E:208:VAL:HG12	1:E:248:ILE:HG12	1.92	0.52
1:E:745:THR:HG23	1:E:834:GLU:HA	1.90	0.52
1:E:1119:THR:O	1:E:1123:PHE:HB2	2.10	0.52
1:F:1488:VAL:HG12	1:F:1490:ARG:HH11	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:208:VAL:HG12	1:A:248:ILE:HG12	1.92	0.52
1:A:2715:PRO:HB2	1:F:2737:VAL:HG21	1.91	0.52
1:B:400:TRP:CZ3	1:B:636:PRO:HB2	2.45	0.52
1:B:716:ALA:HA	1:B:719:VAL:HG23	1.90	0.52
1:B:2698:GLY:HA3	1:B:2705:LYS:HG3	1.92	0.52
1:B:2808:ARG:HB2	1:B:2895:SER:O	2.10	0.52
1:C:1225:ARG:CG	1:C:1283:ASP:OD1	2.57	0.52
1:C:2808:ARG:HB2	1:C:2895:SER:O	2.10	0.52
1:C:2911:ALA:HA	1:C:2914:MET:HE2	1.90	0.52
1:D:2768:ASP:OD2	1:D:2936:GLY:N	2.41	0.52
1:E:400:TRP:CZ3	1:E:636:PRO:HB2	2.45	0.52
1:E:542:VAL:HG11	1:E:964:VAL:HB	1.92	0.52
1:E:588:GLU:HB3	1:E:593:LEU:HD11	1.91	0.52
1:E:961:ARG:NH2	1:E:1196:GLY:O	2.42	0.52
1:E:2089:PHE:HA	1:E:2188:ARG:HH11	1.74	0.52
1:F:33:ALA:O	1:F:37:ARG:HG2	2.09	0.52
1:F:961:ARG:NH2	1:F:1196:GLY:O	2.42	0.52
1:A:33:ALA:O	1:A:37:ARG:HG2	2.08	0.52
1:A:411:PRO:HD2	1:A:1025:VAL:HG11	1.91	0.52
1:A:542:VAL:HG11	1:A:964:VAL:HB	1.92	0.52
1:B:542:VAL:HG11	1:B:964:VAL:HB	1.92	0.52
1:B:2087:GLN:HA	1:B:2090:GLU:CG	2.39	0.52
1:B:2911:ALA:HA	1:B:2914:MET:HE2	1.90	0.52
1:C:961:ARG:NH2	1:C:1196:GLY:O	2.42	0.52
1:C:2103:TRP:CG	1:C:2919:GLY:O	2.62	0.52
1:D:71:GLU:HG2	1:D:142:ARG:NH2	2.24	0.52
1:D:1148:GLU:O	1:D:1150:ALA:N	2.42	0.52
1:D:2492:VAL:HG21	1:D:2527:VAL:HG22	1.90	0.52
1:E:106:ALA:O	1:E:112:PRO:HD2	2.10	0.52
1:E:930:PRO:CG	1:E:930:PRO:O	2.57	0.52
1:F:931:VAL:HG23	1:F:933:VAL:HG13	1.92	0.52
1:F:1425:VAL:HG13	1:F:1474:LEU:HD13	1.91	0.52
1:A:400:TRP:CZ3	1:A:636:PRO:HB2	2.45	0.52
1:A:577:GLU:OE2	2:A:4000:FMN:O3'	2.28	0.52
1:A:1110:VAL:HG13	1:A:1172:VAL:HG11	1.92	0.52
1:A:1530:LEU:HD21	1:A:1554:LEU:HD22	1.91	0.52
1:B:2552:ASP:OD1	1:B:2552:ASP:N	2.43	0.52
1:B:2927:GLN:HE22	1:B:2941:PHE:C	2.17	0.52
1:C:144:GLY:O	1:C:148:THR:N	2.34	0.52
1:C:400:TRP:CZ3	1:C:636:PRO:HB2	2.45	0.52
1:C:1148:GLU:O	1:C:1150:ALA:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1622:PRO:HD3	1:C:1685:LEU:HD21	1.92	0.52
1:D:588:GLU:HB3	1:D:593:LEU:HD11	1.91	0.52
1:D:792:ALA:HA	1:D:799:PHE:CE2	2.43	0.52
1:E:1089:ALA:O	1:E:1091:LEU:N	2.42	0.52
1:E:1093:PRO:HB3	1:E:1277:HIS:HE1	1.75	0.52
1:E:1110:VAL:HG13	1:E:1172:VAL:HG11	1.92	0.52
1:F:206:PRO:HG2	1:F:294:VAL:HA	1.92	0.52
1:F:400:TRP:CZ3	1:F:636:PRO:HB2	2.45	0.52
1:F:2215:THR:HG22	1:F:2216:GLU:HG3	1.91	0.52
1:F:2698:GLY:HA3	1:F:2705:LYS:HG3	1.92	0.52
1:F:2927:GLN:HE22	1:F:2941:PHE:C	2.17	0.52
1:A:1733:ASN:HD22	1:A:1736:ARG:HD2	1.74	0.52
1:B:208:VAL:HB	1:B:255:LEU:HD13	1.92	0.52
1:B:1287:VAL:O	1:B:1291:LYS:HG3	2.10	0.52
1:B:1530:LEU:HD21	1:B:1554:LEU:HD22	1.91	0.52
1:B:2236:LEU:HD23	1:B:2288:HIS:HB2	1.92	0.52
1:C:1226:ARG:HB3	1:C:1282:THR:HG21	1.90	0.52
1:C:2737:VAL:HG21	1:D:2715:PRO:HB2	1.91	0.52
1:C:3080:ARG:HG3	1:C:3080:ARG:NH1	2.09	0.52
1:D:88:SER:HG	1:D:311:TRP:CD1	2.28	0.52
1:D:1093:PRO:HB3	1:D:1277:HIS:HE1	1.75	0.52
1:D:1225:ARG:CG	1:D:1283:ASP:OD1	2.57	0.52
1:D:1622:PRO:HD3	1:D:1685:LEU:HD21	1.92	0.52
1:D:2215:THR:HG22	1:D:2216:GLU:HG3	1.91	0.52
1:E:1538:ARG:NH1	1:E:1722:PRO:HB3	2.18	0.52
1:F:1287:VAL:O	1:F:1291:LYS:HG3	2.10	0.52
1:F:2552:ASP:OD1	1:F:2552:ASP:N	2.43	0.52
1:F:2740:CYS:HB2	1:F:2998:GLY:HA2	1.92	0.52
1:A:1164:THR:HA	1:A:1204:THR:O	2.10	0.52
1:A:1695:LEU:HD23	1:B:257:ARG:NH1	2.23	0.52
1:A:2740:CYS:HB2	1:A:2998:GLY:HA2	1.92	0.52
1:B:71:GLU:HG2	1:B:142:ARG:NH2	2.24	0.52
1:B:206:PRO:HG2	1:B:294:VAL:HA	1.92	0.52
1:B:1087:PHE:HB3	1:C:117:LYS:HZ3	1.74	0.52
1:B:2417:SER:O	1:B:2421:ASP:N	2.40	0.52
1:C:2089:PHE:HA	1:C:2188:ARG:HH11	1.74	0.52
1:C:3000:GLY:HA3	1:D:2720:ALA:HB1	1.92	0.52
1:E:208:VAL:HB	1:E:255:LEU:HD13	1.92	0.52
1:E:716:ALA:HA	1:E:719:VAL:HG23	1.90	0.52
1:E:1287:VAL:O	1:E:1291:LYS:HG3	2.10	0.52
1:E:2401:ILE:HG23	1:E:2403:ILE:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:336:TRP:CE2	1:F:360:LEU:HD11	2.45	0.52
1:F:1164:THR:HA	1:F:1204:THR:O	2.10	0.52
1:F:2418:GLY:O	1:F:2422:GLU:N	2.41	0.52
1:A:508:GLN:HA	1:A:540:ASN:HB3	1.92	0.52
1:B:208:VAL:HG12	1:B:248:ILE:HG12	1.92	0.52
1:B:405:PRO:HG3	1:B:625:LEU:HG	1.92	0.52
1:B:1110:VAL:HG13	1:B:1172:VAL:HG11	1.92	0.52
1:B:2737:VAL:HG21	1:E:2715:PRO:HB2	1.92	0.52
1:B:2861:LEU:HD13	1:E:3074:LEU:HB2	1.92	0.52
1:C:411:PRO:HD2	1:C:1025:VAL:HG11	1.91	0.52
1:C:588:GLU:HB3	1:C:593:LEU:HD11	1.91	0.52
1:C:1323:GLU:N	1:C:1343:LEU:O	2.41	0.52
1:C:2720:ALA:HB1	1:D:3000:GLY:HA3	1.92	0.52
1:D:208:VAL:HB	1:D:255:LEU:HD13	1.92	0.52
1:D:931:VAL:HG23	1:D:933:VAL:HG13	1.92	0.52
1:D:1087:PHE:HB3	1:E:117:LYS:HZ3	1.74	0.52
1:D:1488:VAL:HG12	1:D:1490:ARG:HH11	1.73	0.52
1:E:1225:ARG:CG	1:E:1283:ASP:OD1	2.57	0.52
1:E:1530:LEU:HD21	1:E:1554:LEU:HD22	1.91	0.52
1:F:420:LYS:HB3	1:F:641:ASP:OD2	2.10	0.52
1:F:1174:VAL:HB	1:F:1188:LEU:HB3	1.91	0.52
1:F:1634:ARG:HD2	1:F:1638:PRO:HA	1.91	0.52
1:F:2089:PHE:HA	1:F:2188:ARG:HH11	1.74	0.52
1:A:526:ILE:HD12	1:A:549:PHE:HB3	1.90	0.51
1:A:1287:VAL:O	1:A:1291:LYS:HG3	2.10	0.51
1:A:1488:VAL:HG12	1:A:1490:ARG:HH11	1.73	0.51
1:A:1580:PRO:O	1:A:1583:SER:OG	2.22	0.51
1:A:1622:PRO:HD3	1:A:1685:LEU:HD21	1.92	0.51
1:B:336:TRP:CE2	1:B:360:LEU:HD11	2.45	0.51
1:B:1695:LEU:HD23	1:C:257:ARG:NH1	2.23	0.51
1:C:88:SER:HG	1:C:311:TRP:CD1	2.27	0.51
1:C:208:VAL:HB	1:C:255:LEU:HD13	1.92	0.51
1:C:1598:GLU:HG2	1:C:1666:ILE:HD13	1.92	0.51
1:C:2552:ASP:OD1	1:C:2552:ASP:N	2.43	0.51
1:C:2698:GLY:HA3	1:C:2705:LYS:HG3	1.92	0.51
1:C:2748:GLU:HG2	1:D:2753:LYS:HZ2	1.74	0.51
1:D:106:ALA:O	1:D:112:PRO:HD2	2.10	0.51
1:D:336:TRP:CE2	1:D:360:LEU:HD11	2.45	0.51
1:D:2089:PHE:HA	1:D:2188:ARG:HH11	1.74	0.51
1:E:931:VAL:HG13	1:E:933:VAL:HG23	1.92	0.51
1:E:1733:ASN:HD22	1:E:1736:ARG:HD2	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2690:THR:O	1:E:2693:GLN:HG2	2.11	0.51
1:E:2740:CYS:HB2	1:E:2998:GLY:HA2	1.91	0.51
1:A:2401:ILE:HG23	1:A:2403:ILE:H	1.75	0.51
1:A:2417:SER:O	1:A:2421:ASP:N	2.40	0.51
1:B:1119:THR:O	1:B:1123:PHE:HB2	2.10	0.51
1:B:1634:ARG:HD2	1:B:1638:PRO:HA	1.91	0.51
1:C:106:ALA:O	1:C:112:PRO:HD2	2.10	0.51
1:C:792:ALA:HA	1:C:799:PHE:CE2	2.43	0.51
1:C:1287:VAL:O	1:C:1291:LYS:HG3	2.10	0.51
1:C:1634:ARG:HD2	1:C:1638:PRO:HA	1.91	0.51
1:D:1287:VAL:O	1:D:1291:LYS:HG3	2.10	0.51
1:E:792:ALA:HA	1:E:799:PHE:CE2	2.43	0.51
1:A:206:PRO:HG2	1:A:294:VAL:HA	1.92	0.51
1:A:961:ARG:NH2	1:A:1196:GLY:O	2.42	0.51
1:A:2790:MET:HG2	1:A:2809:LEU:HD11	1.93	0.51
1:B:420:LYS:HB3	1:B:641:ASP:OD2	2.10	0.51
1:B:588:GLU:HB3	1:B:593:LEU:HD11	1.91	0.51
1:B:2215:THR:HG22	1:B:2216:GLU:HG3	1.92	0.51
1:C:420:LYS:HB3	1:C:641:ASP:OD2	2.10	0.51
1:D:746:TYR:HA	1:D:749:TRP:HD1	1.76	0.51
1:F:2200:MET:HE1	1:F:2270:LEU:HD22	1.93	0.51
1:F:2690:THR:O	1:F:2693:GLN:HG2	2.11	0.51
1:A:746:TYR:HA	1:A:749:TRP:HD1	1.76	0.51
1:A:2418:GLY:O	1:A:2422:GLU:N	2.40	0.51
1:A:2690:THR:O	1:A:2693:GLN:HG2	2.11	0.51
1:A:2720:ALA:HB1	1:F:3000:GLY:HA3	1.92	0.51
1:A:2731:GLY:O	1:F:2846:ALA:N	2.44	0.51
1:B:2089:PHE:HA	1:B:2188:ARG:HH11	1.74	0.51
1:C:1093:PRO:HB3	1:C:1277:HIS:HE1	1.75	0.51
1:D:542:VAL:HG11	1:D:964:VAL:HB	1.92	0.51
1:D:577:GLU:OE2	2:D:4000:FMN:O3'	2.28	0.51
1:D:1110:VAL:HG13	1:D:1172:VAL:HG11	1.92	0.51
1:D:1119:THR:O	1:D:1123:PHE:HB2	2.10	0.51
1:D:1598:GLU:HG2	1:D:1666:ILE:HD13	1.93	0.51
1:D:1723:GLU:C	1:D:1725:SER:H	2.18	0.51
1:E:2200:MET:HE1	1:E:2270:LEU:HD22	1.93	0.51
1:E:2236:LEU:HD23	1:E:2288:HIS:HB2	1.92	0.51
1:F:411:PRO:HD2	1:F:1025:VAL:HG11	1.91	0.51
1:A:176:VAL:O	1:A:180:ALA:N	2.36	0.51
1:A:420:LYS:HB3	1:A:641:ASP:OD2	2.10	0.51
1:A:2808:ARG:HB2	1:A:2895:SER:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2861:LEU:HD13	1:F:3074:LEU:HB2	1.92	0.51
1:B:106:ALA:O	1:B:112:PRO:HD2	2.10	0.51
1:B:577:GLU:OE2	2:B:4000:FMN:O3'	2.28	0.51
1:B:792:ALA:HA	1:B:799:PHE:CE2	2.43	0.51
1:B:1425:VAL:HG13	1:B:1474:LEU:HD13	1.91	0.51
1:B:2200:MET:HE1	1:B:2270:LEU:HD22	1.93	0.51
1:C:1164:THR:HA	1:C:1204:THR:O	2.10	0.51
1:C:2200:MET:HE1	1:C:2270:LEU:HD22	1.93	0.51
1:C:3074:LEU:HB2	1:D:2861:LEU:HD13	1.92	0.51
1:D:1174:VAL:HB	1:D:1188:LEU:HB3	1.91	0.51
1:D:2501:MET:HE1	1:D:2516:GLU:OE2	2.11	0.51
1:E:1723:GLU:C	1:E:1725:SER:H	2.18	0.51
1:A:931:VAL:HG23	1:A:933:VAL:HG23	1.91	0.51
1:A:1317:GLY:H	1:A:1324:VAL:HG12	1.76	0.51
1:A:2501:MET:HE1	1:A:2516:GLU:OE2	2.11	0.51
1:A:2846:ALA:N	1:F:2731:GLY:O	2.44	0.51
1:B:1164:THR:HA	1:B:1204:THR:O	2.10	0.51
1:B:1598:GLU:HG2	1:B:1666:ILE:HD13	1.93	0.51
1:C:1723:GLU:C	1:C:1725:SER:H	2.18	0.51
1:D:930:PRO:CG	1:D:930:PRO:O	2.57	0.51
1:D:1164:THR:HA	1:D:1204:THR:O	2.10	0.51
1:F:272:GLU:HB3	1:F:280:GLY:O	2.11	0.51
1:A:257:ARG:NH1	1:C:1695:LEU:HD23	2.23	0.51
1:A:3074:LEU:HB2	1:F:2861:LEU:HD13	1.92	0.51
1:B:2667:THR:HG21	1:B:3058:ARG:HH11	1.76	0.51
1:C:1119:THR:O	1:C:1123:PHE:HB2	2.10	0.51
1:C:2180:LYS:HZ1	1:C:2962:ASP:HB3	1.75	0.51
1:C:2731:GLY:O	1:D:2846:ALA:N	2.44	0.51
1:D:400:TRP:CZ3	1:D:636:PRO:HB2	2.45	0.51
1:D:1733:ASN:HD22	1:D:1736:ARG:HD2	1.74	0.51
1:D:2401:ILE:HG23	1:D:2403:ILE:H	1.76	0.51
1:E:176:VAL:O	1:E:180:ALA:N	2.36	0.51
1:E:336:TRP:CE2	1:E:360:LEU:HD11	2.45	0.51
1:E:420:LYS:HB3	1:E:641:ASP:OD2	2.10	0.51
1:E:577:GLU:OE2	2:E:4000:FMN:O3'	2.28	0.51
1:E:2501:MET:HE1	1:E:2516:GLU:OE2	2.11	0.51
1:E:2754:ILE:HA	1:E:2759:ALA:O	2.11	0.51
1:E:2790:MET:HG2	1:E:2809:LEU:HD11	1.93	0.51
1:E:2962:ASP:OD1	1:E:2962:ASP:N	2.34	0.51
1:F:1110:VAL:HG13	1:F:1172:VAL:HG11	1.92	0.51
1:A:1093:PRO:HB3	1:A:1277:HIS:HE1	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1119:THR:O	1:A:1123:PHE:HB2	2.10	0.51
1:A:1381:ASP:OD1	1:A:1391:SER:OG	2.22	0.51
1:B:931:VAL:HG13	1:B:933:VAL:HG23	1.92	0.51
1:B:1622:PRO:HD3	1:B:1685:LEU:HD21	1.92	0.51
1:B:2754:ILE:HA	1:B:2759:ALA:O	2.11	0.51
1:B:2846:ALA:N	1:E:2731:GLY:O	2.44	0.51
1:B:3000:GLY:HA3	1:E:2720:ALA:HB1	1.92	0.51
1:C:577:GLU:OE2	2:C:4000:FMN:O3'	2.28	0.51
1:C:746:TYR:HA	1:C:749:TRP:HD1	1.76	0.51
1:C:2215:THR:HG22	1:C:2216:GLU:HG3	1.91	0.51
1:C:2236:LEU:HD23	1:C:2288:HIS:HB2	1.92	0.51
1:D:2754:ILE:HA	1:D:2759:ALA:O	2.11	0.51
1:E:272:GLU:HB3	1:E:280:GLY:O	2.11	0.51
1:E:746:TYR:HA	1:E:749:TRP:HD1	1.76	0.51
1:F:1119:THR:O	1:F:1123:PHE:HB2	2.10	0.51
1:F:1634:ARG:HH11	1:F:1639:ALA:N	2.08	0.51
1:B:2180:LYS:HZ1	1:B:2962:ASP:HB3	1.75	0.51
1:B:2829:LEU:HD21	1:B:3014:PHE:HE2	1.76	0.51
1:C:2740:CYS:HB2	1:C:2998:GLY:HA2	1.91	0.51
1:D:2361:VAL:HG11	1:D:2398:LEU:HD23	1.93	0.51
1:E:508:GLN:HA	1:E:540:ASN:HB3	1.92	0.51
1:E:780:ARG:HD2	1:E:816:LEU:HB3	1.93	0.51
1:E:1164:THR:HA	1:E:1204:THR:O	2.10	0.51
1:E:1622:PRO:HD3	1:E:1685:LEU:HD21	1.92	0.51
1:F:106:ALA:O	1:F:112:PRO:HD2	2.10	0.51
1:F:577:GLU:OE2	2:F:4000:FMN:O3'	2.28	0.51
1:F:2808:ARG:HB2	1:F:2895:SER:O	2.10	0.51
1:A:106:ALA:O	1:A:112:PRO:HD2	2.10	0.51
1:A:1598:GLU:HG2	1:A:1666:ILE:HD13	1.93	0.51
1:A:3000:GLY:HA3	1:F:2720:ALA:HB1	1.92	0.51
1:B:1723:GLU:C	1:B:1725:SER:H	2.18	0.51
1:C:542:VAL:HG11	1:C:964:VAL:HB	1.92	0.51
1:C:1110:VAL:HG13	1:C:1172:VAL:HG11	1.92	0.51
1:C:2690:THR:O	1:C:2693:GLN:HG2	2.11	0.51
1:C:2957:PRO:HB3	1:C:2979:GLU:C	2.36	0.51
1:D:208:VAL:HG12	1:D:248:ILE:HG12	1.92	0.51
1:D:1317:GLY:H	1:D:1324:VAL:HG12	1.76	0.51
1:E:2808:ARG:HB2	1:E:2895:SER:O	2.10	0.51
1:B:1093:PRO:HB3	1:B:1277:HIS:HE1	1.75	0.50
1:C:508:GLN:HA	1:C:540:ASN:HB3	1.92	0.50
1:C:780:ARG:HD2	1:C:816:LEU:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1986:LEU:HA	1:C:1989:PHE:HD2	1.76	0.50
1:C:2401:ILE:HG23	1:C:2403:ILE:H	1.76	0.50
1:D:272:GLU:HB3	1:D:280:GLY:O	2.11	0.50
1:D:780:ARG:HD2	1:D:816:LEU:HB3	1.93	0.50
1:D:2829:LEU:HD21	1:D:3014:PHE:HE2	1.76	0.50
1:E:2662:SER:HB2	1:E:2833:LEU:HD22	1.93	0.50
1:E:2957:PRO:HB3	1:E:2979:GLU:C	2.36	0.50
1:F:1622:PRO:HD3	1:F:1685:LEU:HD21	1.92	0.50
1:F:2754:ILE:HA	1:F:2759:ALA:O	2.11	0.50
1:F:2911:ALA:HA	1:F:2914:MET:HE2	1.91	0.50
1:A:272:GLU:HB3	1:A:280:GLY:O	2.11	0.50
1:A:1986:LEU:HA	1:A:1989:PHE:HD2	1.77	0.50
1:A:2667:THR:HG21	1:A:3058:ARG:HH11	1.76	0.50
1:A:2698:GLY:HA3	1:A:2705:LYS:HG3	1.92	0.50
1:B:272:GLU:HB3	1:B:280:GLY:O	2.11	0.50
1:B:1380:ALA:HB1	1:B:1474:LEU:HD12	1.93	0.50
1:B:1590:VAL:HG11	1:B:1671:TRP:CD2	2.47	0.50
1:B:2401:ILE:HG23	1:B:2403:ILE:H	1.76	0.50
1:B:2790:MET:HG2	1:B:2809:LEU:HD11	1.93	0.50
1:B:3074:LEU:HB2	1:E:2861:LEU:HD13	1.92	0.50
1:C:2962:ASP:OD1	1:C:2962:ASP:N	2.34	0.50
1:D:206:PRO:HG2	1:D:294:VAL:HA	1.92	0.50
1:D:508:GLN:HA	1:D:540:ASN:HB3	1.92	0.50
1:D:647:THR:OG1	2:D:4000:FMN:O3P	2.27	0.50
1:F:208:VAL:HB	1:F:255:LEU:HD13	1.92	0.50
1:F:405:PRO:HG3	1:F:625:LEU:HG	1.93	0.50
1:F:1331:ILE:HG13	1:F:1336:VAL:HG21	1.94	0.50
1:F:2236:LEU:HD23	1:F:2288:HIS:HB2	1.92	0.50
1:F:2501:MET:HE1	1:F:2516:GLU:OE2	2.11	0.50
1:A:336:TRP:CE2	1:A:360:LEU:HD11	2.45	0.50
1:A:2245:VAL:HG13	1:A:2255:ARG:CZ	2.41	0.50
1:A:2957:PRO:HB3	1:A:2979:GLU:C	2.36	0.50
1:B:1331:ILE:HG13	1:B:1336:VAL:HG21	1.94	0.50
1:B:2140:VAL:HG22	1:B:2165:ILE:HD12	1.94	0.50
1:B:2662:SER:HB2	1:B:2833:LEU:HD22	1.94	0.50
1:B:2690:THR:O	1:B:2693:GLN:HG2	2.11	0.50
1:B:2740:CYS:HB2	1:B:2998:GLY:HA2	1.91	0.50
1:C:1380:ALA:HB1	1:C:1474:LEU:HD12	1.93	0.50
1:D:420:LYS:HB3	1:D:641:ASP:OD2	2.10	0.50
1:D:2236:LEU:HD23	1:D:2288:HIS:HB2	1.92	0.50
1:D:2667:THR:HG21	1:D:3058:ARG:HH11	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2957:PRO:HB3	1:D:2979:GLU:C	2.36	0.50
1:E:940:ARG:CG	1:E:940:ARG:O	2.60	0.50
1:E:1317:GLY:H	1:E:1324:VAL:HG12	1.76	0.50
1:E:1380:ALA:HB1	1:E:1474:LEU:HD12	1.93	0.50
1:E:2140:VAL:HG22	1:E:2165:ILE:HD12	1.94	0.50
1:F:508:GLN:HA	1:F:540:ASN:HB3	1.92	0.50
1:F:542:VAL:HG11	1:F:964:VAL:HB	1.92	0.50
1:F:1723:GLU:C	1:F:1725:SER:H	2.18	0.50
1:F:2245:VAL:HG13	1:F:2255:ARG:CZ	2.42	0.50
1:A:1331:ILE:HG13	1:A:1336:VAL:HG21	1.94	0.50
1:A:2140:VAL:HG22	1:A:2165:ILE:HD12	1.93	0.50
1:B:930:PRO:CG	1:B:930:PRO:O	2.57	0.50
1:B:2245:VAL:HG13	1:B:2255:ARG:CZ	2.41	0.50
1:C:176:VAL:O	1:C:180:ALA:N	2.36	0.50
1:C:208:VAL:HG12	1:C:248:ILE:HG12	1.92	0.50
1:C:1317:GLY:H	1:C:1324:VAL:HG12	1.76	0.50
1:C:1590:VAL:HG11	1:C:1671:TRP:CD2	2.47	0.50
1:C:2662:SER:HB2	1:C:2833:LEU:HD22	1.93	0.50
1:C:2754:ILE:HA	1:C:2759:ALA:O	2.11	0.50
1:D:2808:ARG:HB2	1:D:2895:SER:O	2.10	0.50
1:E:1634:ARG:HH11	1:E:1639:ALA:N	2.08	0.50
1:E:1986:LEU:HA	1:E:1989:PHE:HD2	1.76	0.50
1:E:2056:PHE:CZ	1:E:2180:LYS:HE2	2.47	0.50
1:E:2261:LYS:HA	1:E:2265:TRP:HB2	1.94	0.50
1:E:2667:THR:HG21	1:E:3058:ARG:HH11	1.76	0.50
1:F:780:ARG:HD2	1:F:816:LEU:HB3	1.93	0.50
1:F:1317:GLY:H	1:F:1324:VAL:HG12	1.76	0.50
1:F:1590:VAL:HG11	1:F:1671:TRP:CD2	2.47	0.50
1:B:2261:LYS:HA	1:B:2265:TRP:HB2	1.94	0.50
1:B:2686:MET:HE1	1:B:2935:LYS:HZ2	1.76	0.50
1:B:2720:ALA:HB1	1:E:3000:GLY:HA3	1.92	0.50
1:C:405:PRO:HG3	1:C:625:LEU:HG	1.93	0.50
1:C:2501:MET:HE1	1:C:2516:GLU:OE2	2.11	0.50
1:D:144:GLY:O	1:D:148:THR:N	2.34	0.50
1:D:1010:LEU:CG	1:D:1017:ILE:HB	2.42	0.50
1:D:1331:ILE:HG13	1:D:1336:VAL:HG21	1.94	0.50
1:D:2180:LYS:HZ1	1:D:2962:ASP:HB3	1.75	0.50
1:D:2200:MET:HE1	1:D:2270:LEU:HD22	1.93	0.50
1:D:2698:GLY:HA3	1:D:2705:LYS:HG3	1.92	0.50
1:E:2698:GLY:HA3	1:E:2705:LYS:HG3	1.92	0.50
1:F:746:TYR:HA	1:F:749:TRP:HD1	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1010:LEU:CG	1:A:1017:ILE:HB	2.42	0.50
1:A:1380:ALA:HB1	1:A:1474:LEU:HD12	1.93	0.50
1:A:1711:VAL:HA	1:A:1714:LEU:HG	1.94	0.50
1:A:2754:ILE:HA	1:A:2759:ALA:O	2.11	0.50
1:B:1010:LEU:CG	1:B:1017:ILE:HB	2.42	0.50
1:B:2361:VAL:HG11	1:B:2398:LEU:HD23	1.93	0.50
1:C:2140:VAL:HG22	1:C:2165:ILE:HD12	1.93	0.50
1:C:2846:ALA:N	1:D:2731:GLY:O	2.44	0.50
1:D:1986:LEU:HA	1:D:1989:PHE:HD2	1.77	0.50
1:D:2245:VAL:HG13	1:D:2255:ARG:CZ	2.41	0.50
1:F:1598:GLU:HG2	1:F:1666:ILE:HD13	1.93	0.50
1:F:2140:VAL:HG22	1:F:2165:ILE:HD12	1.94	0.50
1:A:2236:LEU:HD23	1:A:2288:HIS:HB2	1.92	0.50
1:A:2552:ASP:OD1	1:A:2552:ASP:N	2.43	0.50
1:C:206:PRO:HG2	1:C:294:VAL:HA	1.92	0.50
1:C:2274:LEU:HD23	1:C:2277:ILE:HD12	1.94	0.50
1:C:2361:VAL:HG11	1:C:2398:LEU:HD23	1.93	0.50
1:C:2861:LEU:HD13	1:D:3074:LEU:HB2	1.92	0.50
1:D:405:PRO:HG3	1:D:625:LEU:HG	1.93	0.50
1:E:206:PRO:HG2	1:E:294:VAL:HA	1.92	0.50
1:E:1207:VAL:HG23	1:E:1207:VAL:O	2.12	0.50
1:F:207:MET:HA	1:F:249:THR:HG22	1.94	0.50
1:A:780:ARG:HD2	1:A:816:LEU:HB3	1.93	0.50
1:A:1634:ARG:HH11	1:A:1639:ALA:N	2.08	0.50
1:B:940:ARG:CG	1:B:940:ARG:O	2.60	0.50
1:B:1207:VAL:O	1:B:1207:VAL:HG13	2.12	0.50
1:B:1634:ARG:HH11	1:B:1639:ALA:N	2.08	0.50
1:B:2715:PRO:HB2	1:E:2737:VAL:HG21	1.91	0.50
1:C:272:GLU:HB3	1:C:280:GLY:O	2.11	0.50
1:C:336:TRP:CE2	1:C:360:LEU:HD11	2.45	0.50
1:C:2582:GLN:HB3	1:D:2554:ALA:HB2	1.94	0.50
1:D:2690:THR:O	1:D:2693:GLN:HG2	2.11	0.50
1:F:2662:SER:HB2	1:F:2833:LEU:HD22	1.93	0.50
1:F:2790:MET:HG2	1:F:2809:LEU:HD11	1.93	0.50
1:A:405:PRO:HG3	1:A:625:LEU:HG	1.93	0.50
1:A:1723:GLU:C	1:A:1725:SER:H	2.18	0.50
1:A:2582:GLN:HB3	1:F:2554:ALA:HB2	1.94	0.50
1:A:2623:ALA:HB2	1:A:2812:LEU:HD21	1.94	0.50
1:A:2811:PHE:HB3	1:A:2894:THR:HG22	1.94	0.50
1:B:207:MET:HA	1:B:249:THR:HG22	1.94	0.50
1:B:746:TYR:HA	1:B:749:TRP:HD1	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1317:GLY:H	1:B:1324:VAL:HG12	1.76	0.50
1:B:2334:HIS:HB3	1:B:2391:LYS:HA	1.94	0.50
1:C:2245:VAL:HG13	1:C:2255:ARG:CZ	2.41	0.50
1:C:2811:PHE:HB3	1:C:2894:THR:HG22	1.94	0.50
1:D:1178:ASN:HB2	1:D:1185:LEU:HD11	1.94	0.50
1:D:2261:LYS:HA	1:D:2265:TRP:HB2	1.94	0.50
1:E:1590:VAL:HG11	1:E:1671:TRP:CD2	2.47	0.50
1:E:2557:LEU:HD22	1:E:2613:ARG:HB2	1.94	0.50
1:F:1010:LEU:CG	1:F:1017:ILE:HB	2.42	0.50
1:F:1380:ALA:HB1	1:F:1474:LEU:HD12	1.93	0.50
1:A:1457:GLU:OE2	1:A:1614:TYR:OH	2.30	0.49
1:A:2137:GLU:O	1:A:2163:THR:N	2.30	0.49
1:A:2334:HIS:HB3	1:A:2391:LYS:HA	1.94	0.49
1:B:745:THR:OG1	1:B:834:GLU:O	2.19	0.49
1:B:780:ARG:HD2	1:B:816:LEU:HB3	1.93	0.49
1:B:1178:ASN:HB2	1:B:1185:LEU:HD11	1.94	0.49
1:B:1711:VAL:HA	1:B:1714:LEU:HG	1.93	0.49
1:B:2501:MET:HE1	1:B:2516:GLU:OE2	2.11	0.49
1:C:1010:LEU:CG	1:C:1017:ILE:HB	2.42	0.49
1:C:2790:MET:HG2	1:C:2809:LEU:HD11	1.93	0.49
1:E:88:SER:HG	1:E:311:TRP:CD1	2.30	0.49
1:E:1598:GLU:HG2	1:E:1666:ILE:HD13	1.93	0.49
1:E:2118:LEU:O	1:E:2122:ILE:CG1	2.60	0.49
1:E:2811:PHE:HB3	1:E:2894:THR:HG22	1.94	0.49
1:F:133:GLN:HG2	1:F:355:GLY:HA2	1.94	0.49
1:F:2056:PHE:CZ	1:F:2180:LYS:HE2	2.47	0.49
1:F:2334:HIS:HB3	1:F:2391:LYS:HA	1.94	0.49
1:F:2401:ILE:HG23	1:F:2403:ILE:H	1.76	0.49
1:A:2557:LEU:HD22	1:A:2613:ARG:HB2	1.94	0.49
1:B:133:GLN:HG2	1:B:355:GLY:HA2	1.94	0.49
1:B:2554:ALA:HB2	1:E:2582:GLN:HB3	1.94	0.49
1:B:2957:PRO:HB3	1:B:2979:GLU:C	2.36	0.49
1:C:207:MET:HA	1:C:249:THR:HG22	1.94	0.49
1:C:1207:VAL:HG23	1:C:1207:VAL:O	2.12	0.49
1:C:2056:PHE:CZ	1:C:2180:LYS:HE2	2.47	0.49
1:C:2554:ALA:HB2	1:D:2582:GLN:HB3	1.94	0.49
1:D:1590:VAL:HG11	1:D:1671:TRP:CD2	2.47	0.49
1:D:2137:GLU:O	1:D:2163:THR:N	2.30	0.49
1:D:2274:LEU:HD23	1:D:2277:ILE:HD12	1.94	0.49
1:E:1119:THR:HA	1:E:1123:PHE:CD1	2.48	0.49
1:E:1580:PRO:O	1:E:1583:SER:OG	2.22	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2811:PHE:HB3	1:F:2894:THR:HG22	1.94	0.49
1:F:3080:ARG:CG	1:F:3080:ARG:NH1	2.72	0.49
1:A:1207:VAL:HG13	1:A:1207:VAL:O	2.12	0.49
1:A:2361:VAL:HG11	1:A:2398:LEU:HD23	1.93	0.49
1:B:1291:LYS:HA	1:B:1344:ALA:HB3	1.95	0.49
1:B:1986:LEU:HA	1:B:1989:PHE:HD2	1.76	0.49
1:B:2731:GLY:O	1:E:2846:ALA:N	2.44	0.49
1:D:207:MET:HA	1:D:249:THR:HG22	1.94	0.49
1:D:1207:VAL:HG23	1:D:1207:VAL:O	2.12	0.49
1:D:1380:ALA:HB1	1:D:1474:LEU:HD12	1.94	0.49
1:D:1711:VAL:HA	1:D:1714:LEU:HG	1.94	0.49
1:E:1212:ALA:O	1:E:1342:ARG:NH2	2.45	0.49
1:E:1695:LEU:HD23	1:F:257:ARG:NH1	2.23	0.49
1:E:1711:VAL:HA	1:E:1714:LEU:HG	1.94	0.49
1:F:1119:THR:HA	1:F:1123:PHE:CD1	2.48	0.49
1:F:1207:VAL:HG23	1:F:1207:VAL:O	2.12	0.49
1:F:1212:ALA:O	1:F:1342:ARG:NH2	2.45	0.49
1:F:2361:VAL:HG11	1:F:2398:LEU:HD23	1.93	0.49
1:A:2200:MET:HE1	1:A:2270:LEU:HD22	1.93	0.49
1:B:144:GLY:O	1:B:148:THR:N	2.34	0.49
1:B:1119:THR:HA	1:B:1123:PHE:CD1	2.48	0.49
1:C:2417:SER:O	1:C:2421:ASP:N	2.40	0.49
1:D:2291:LEU:HD21	1:D:2332:LEU:HD22	1.95	0.49
1:D:2790:MET:HG2	1:D:2809:LEU:HD11	1.93	0.49
1:F:2667:THR:HG21	1:F:3058:ARG:HH11	1.76	0.49
1:F:2957:PRO:HB3	1:F:2979:GLU:C	2.36	0.49
1:A:505:ARG:HA	1:A:508:GLN:HB2	1.94	0.49
1:B:2118:LEU:O	1:B:2122:ILE:CG1	2.60	0.49
1:B:2623:ALA:HB2	1:B:2812:LEU:HD21	1.94	0.49
1:C:931:VAL:HG13	1:C:933:VAL:HG13	1.92	0.49
1:C:1119:THR:HA	1:C:1123:PHE:CD1	2.48	0.49
1:C:1637:VAL:HG21	1:C:1671:TRP:CD2	2.48	0.49
1:D:184:LEU:HB3	1:D:311:TRP:HE3	1.78	0.49
1:D:1010:LEU:O	1:D:1017:ILE:N	2.29	0.49
1:D:2056:PHE:CZ	1:D:2180:LYS:HE2	2.47	0.49
1:E:133:GLN:HG2	1:E:355:GLY:HA2	1.94	0.49
1:E:405:PRO:HG3	1:E:625:LEU:HG	1.93	0.49
1:E:2274:LEU:HD23	1:E:2277:ILE:HD12	1.94	0.49
1:E:2361:VAL:HG11	1:E:2398:LEU:HD23	1.93	0.49
1:E:2503:LYS:HE3	1:E:2505:GLU:OE2	2.13	0.49
1:F:2274:LEU:HD23	1:F:2277:ILE:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2180:LYS:HZ1	1:A:2962:ASP:HB3	1.77	0.49
1:A:2614:LYS:HZ1	1:F:2583:PHE:HD1	1.52	0.49
1:A:2662:SER:HB2	1:A:2833:LEU:HD22	1.93	0.49
1:B:508:GLN:HA	1:B:540:ASN:HB3	1.92	0.49
1:B:2503:LYS:HE3	1:B:2505:GLU:OE2	2.13	0.49
1:B:2820:ILE:HD12	1:B:2822:LEU:HD21	1.95	0.49
1:C:2667:THR:HG21	1:C:3058:ARG:HH11	1.76	0.49
1:D:1119:THR:HA	1:D:1123:PHE:CD1	2.47	0.49
1:D:2557:LEU:HD22	1:D:2613:ARG:HB2	1.94	0.49
1:D:2811:PHE:HB3	1:D:2894:THR:HG22	1.94	0.49
1:E:1178:ASN:HB2	1:E:1185:LEU:HD11	1.94	0.49
1:F:505:ARG:HA	1:F:508:GLN:HB2	1.94	0.49
1:F:726:ILE:HG22	1:F:730:MET:HE3	1.95	0.49
1:F:745:THR:OG1	1:F:834:GLU:O	2.19	0.49
1:F:1637:VAL:HG21	1:F:1671:TRP:CD2	2.48	0.49
1:F:2261:LYS:HA	1:F:2265:TRP:HB2	1.94	0.49
1:A:1178:ASN:HB2	1:A:1185:LEU:HD11	1.94	0.49
1:B:1212:ALA:O	1:B:1342:ARG:NH2	2.45	0.49
1:B:2418:GLY:O	1:B:2422:GLU:N	2.40	0.49
1:C:1362:MET:HG3	1:C:1430:VAL:HG21	1.95	0.49
1:C:2118:LEU:O	1:C:2122:ILE:CG1	2.60	0.49
1:C:2623:ALA:HB2	1:C:2812:LEU:HD21	1.94	0.49
1:D:305:ILE:HD13	1:D:327:GLU:HG2	1.95	0.49
1:D:656:THR:HG1	1:D:880:HIS:CE1	2.30	0.49
1:D:1362:MET:HG3	1:D:1430:VAL:HG21	1.95	0.49
1:D:1533:VAL:HG13	1:D:1582:HIS:HB2	1.95	0.49
1:D:1695:LEU:HD23	1:E:257:ARG:NH1	2.23	0.49
1:D:2552:ASP:OD1	1:D:2552:ASP:N	2.43	0.49
1:E:184:LEU:HB3	1:E:311:TRP:HE3	1.78	0.49
1:E:726:ILE:HG22	1:E:730:MET:HE3	1.95	0.49
1:E:2245:VAL:HG13	1:E:2255:ARG:CZ	2.41	0.49
1:F:930:PRO:CG	1:F:930:PRO:O	2.57	0.49
1:F:1178:ASN:HB2	1:F:1185:LEU:HD11	1.94	0.49
1:A:790:ALA:HB3	1:A:826:LEU:HD21	1.95	0.49
1:A:1590:VAL:HG11	1:A:1671:TRP:CD2	2.47	0.49
1:A:2118:LEU:O	1:A:2122:ILE:CG1	2.60	0.49
1:A:2503:LYS:HE3	1:A:2505:GLU:OE2	2.13	0.49
1:B:790:ALA:HB3	1:B:826:LEU:HD21	1.95	0.49
1:C:726:ILE:HG22	1:C:730:MET:HE3	1.95	0.49
1:C:1711:VAL:HA	1:C:1714:LEU:HG	1.93	0.49
1:D:505:ARG:HA	1:D:508:GLN:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1212:ALA:O	1:D:1342:ARG:NH2	2.45	0.49
1:D:2140:VAL:HG22	1:D:2165:ILE:HD12	1.93	0.49
1:D:2662:SER:HB2	1:D:2833:LEU:HD22	1.93	0.49
1:E:207:MET:HA	1:E:249:THR:HG22	1.94	0.49
1:E:1331:ILE:HG13	1:E:1336:VAL:HG21	1.94	0.49
1:F:176:VAL:O	1:F:180:ALA:N	2.36	0.49
1:F:790:ALA:HB3	1:F:826:LEU:HD21	1.95	0.49
1:F:2503:LYS:HE3	1:F:2505:GLU:OE2	2.13	0.49
1:B:505:ARG:HA	1:B:508:GLN:HB2	1.94	0.49
1:B:868:ARG:HB3	1:B:872:ARG:NH1	2.28	0.49
1:C:505:ARG:HA	1:C:508:GLN:HB2	1.94	0.49
1:C:868:ARG:HB3	1:C:872:ARG:NH1	2.28	0.49
1:C:1291:LYS:HZ3	1:C:1346:PRO:HA	1.78	0.49
1:C:1533:VAL:HG13	1:C:1582:HIS:HB2	1.95	0.49
1:D:2820:ILE:HD12	1:D:2822:LEU:HD21	1.95	0.49
1:E:2829:LEU:HD21	1:E:3014:PHE:HE2	1.76	0.49
1:A:1111:PHE:HE1	1:A:1129:LEU:HD11	1.78	0.49
1:A:1362:MET:HG3	1:A:1430:VAL:HG21	1.95	0.49
1:A:2554:ALA:HB2	1:F:2582:GLN:HB3	1.94	0.49
1:C:361:THR:HG21	1:C:377:PRO:HG3	1.95	0.49
1:C:1133:VAL:O	1:C:1193:ALA:N	2.42	0.49
1:C:1331:ILE:HG13	1:C:1336:VAL:HG21	1.94	0.49
1:C:1435:VAL:HG22	1:C:1703:ILE:HD12	1.95	0.49
1:C:2291:LEU:HD21	1:C:2332:LEU:HD22	1.95	0.49
1:D:133:GLN:HG2	1:D:355:GLY:HA2	1.94	0.49
1:D:361:THR:HG21	1:D:377:PRO:HG3	1.95	0.49
1:E:505:ARG:HA	1:E:508:GLN:HB2	1.94	0.49
1:E:1637:VAL:HG21	1:E:1671:TRP:CD2	2.48	0.49
1:E:2334:HIS:HB3	1:E:2391:LYS:HA	1.94	0.49
1:E:2623:ALA:HB2	1:E:2812:LEU:HD21	1.94	0.49
1:F:940:ARG:CG	1:F:940:ARG:O	2.60	0.49
1:F:1435:VAL:HG22	1:F:1703:ILE:HD12	1.95	0.49
1:F:2820:ILE:HD12	1:F:2822:LEU:HD21	1.95	0.49
1:F:2829:LEU:HD21	1:F:3014:PHE:HE2	1.77	0.49
1:A:184:LEU:HB3	1:A:311:TRP:HE3	1.78	0.48
1:A:2829:LEU:HD21	1:A:3014:PHE:HE2	1.77	0.48
1:A:2848:GLY:H	1:A:3001:HIS:CD2	2.31	0.48
1:B:1435:VAL:HG22	1:B:1703:ILE:HD12	1.95	0.48
1:C:671:THR:HB	1:C:682:ASN:CG	2.38	0.48
1:C:2261:LYS:HA	1:C:2265:TRP:HB2	1.94	0.48
1:C:2334:HIS:HB3	1:C:2391:LYS:HA	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2820:ILE:HD12	1:C:2822:LEU:HD21	1.95	0.48
1:C:2829:LEU:HD21	1:C:3014:PHE:HE2	1.76	0.48
1:C:2848:GLY:H	1:C:3001:HIS:CD2	2.31	0.48
1:D:301:LEU:HD13	1:D:330:LEU:HD22	1.96	0.48
1:D:444:ILE:HD12	1:D:655:ALA:HA	1.95	0.48
1:D:671:THR:HB	1:D:682:ASN:CG	2.38	0.48
1:D:790:ALA:HB3	1:D:826:LEU:HD21	1.95	0.48
1:D:2334:HIS:HB3	1:D:2391:LYS:HA	1.94	0.48
1:E:144:GLY:O	1:E:148:THR:N	2.34	0.48
1:E:2088:ARG:O	1:E:2188:ARG:NH1	2.46	0.48
1:F:1533:VAL:HG13	1:F:1582:HIS:HB2	1.95	0.48
1:F:1986:LEU:HA	1:F:1989:PHE:HD2	1.76	0.48
1:A:133:GLN:HG2	1:A:355:GLY:HA2	1.94	0.48
1:A:792:ALA:HA	1:A:799:PHE:CE2	2.43	0.48
1:A:868:ARG:HB3	1:A:872:ARG:NH1	2.28	0.48
1:A:1637:VAL:HG21	1:A:1671:TRP:CD2	2.48	0.48
1:A:2274:LEU:HD23	1:A:2277:ILE:HD12	1.94	0.48
1:A:2554:ALA:HB1	1:A:2614:LYS:HD2	1.95	0.48
1:B:444:ILE:HD12	1:B:655:ALA:HA	1.95	0.48
1:B:1996:PRO:O	1:B:2000:LEU:N	2.41	0.48
1:B:2845:PHE:CE1	1:E:2676:SER:HB2	2.49	0.48
1:B:2848:GLY:H	1:B:3001:HIS:CD2	2.31	0.48
1:C:930:PRO:CG	1:C:930:PRO:O	2.57	0.48
1:C:1212:ALA:O	1:C:1342:ARG:NH2	2.45	0.48
1:C:2557:LEU:HD22	1:C:2613:ARG:HB2	1.94	0.48
1:C:2676:SER:HB2	1:D:2845:PHE:CE1	2.49	0.48
1:C:2736:PRO:HG2	1:C:2746:SER:HA	1.96	0.48
1:D:1133:VAL:O	1:D:1193:ALA:N	2.42	0.48
1:D:3065:PRO:O	1:D:3069:GLN:N	2.43	0.48
1:E:790:ALA:HB3	1:E:826:LEU:HD21	1.95	0.48
1:F:671:THR:HB	1:F:682:ASN:CG	2.38	0.48
1:F:1291:LYS:HA	1:F:1344:ALA:HB3	1.95	0.48
1:F:1651:THR:HB	1:F:1656:LYS:HD2	1.95	0.48
1:A:726:ILE:HG22	1:A:730:MET:HE3	1.95	0.48
1:A:1119:THR:HA	1:A:1123:PHE:CD1	2.47	0.48
1:B:671:THR:HB	1:B:682:ASN:CG	2.38	0.48
1:B:1291:LYS:HZ2	1:B:1346:PRO:N	2.11	0.48
1:B:2056:PHE:CZ	1:B:2180:LYS:HE2	2.47	0.48
1:B:2088:ARG:O	1:B:2188:ARG:NH1	2.47	0.48
1:B:2167:THR:HB	1:B:2198:ALA:HB3	1.95	0.48
1:C:184:LEU:HB3	1:C:311:TRP:HE3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1625:LEU:HD11	1:C:1660:LEU:HB3	1.96	0.48
1:C:1634:ARG:HH11	1:C:1639:ALA:N	2.08	0.48
1:C:1651:THR:HB	1:C:1656:LYS:HD2	1.95	0.48
1:C:2503:LYS:HE3	1:C:2505:GLU:OE2	2.13	0.48
1:D:726:ILE:HG22	1:D:730:MET:HE3	1.95	0.48
1:D:868:ARG:HB3	1:D:872:ARG:NH1	2.28	0.48
1:D:2088:ARG:O	1:D:2188:ARG:NH1	2.47	0.48
1:D:2170:ARG:HB2	1:D:2175:ARG:HG3	1.95	0.48
1:E:671:THR:HB	1:E:682:ASN:CG	2.38	0.48
1:E:1010:LEU:CG	1:E:1017:ILE:HB	2.42	0.48
1:E:1111:PHE:HE1	1:E:1129:LEU:HD11	1.78	0.48
1:E:2094:HIS:O	1:E:2098:THR:HG22	2.14	0.48
1:E:2098:THR:O	1:E:2102:TRP:CG	2.67	0.48
1:E:2554:ALA:HB1	1:E:2614:LYS:HD2	1.95	0.48
1:E:2666:PRO:CB	1:E:2727:VAL:HA	2.44	0.48
1:E:2686:MET:HE1	1:E:2935:LYS:HZ2	1.77	0.48
1:F:305:ILE:HD13	1:F:327:GLU:HG2	1.95	0.48
1:F:444:ILE:HD12	1:F:655:ALA:HA	1.95	0.48
1:F:2118:LEU:O	1:F:2122:ILE:CG1	2.61	0.48
1:F:2167:THR:HB	1:F:2198:ALA:HB3	1.96	0.48
1:F:2170:ARG:HB2	1:F:2175:ARG:HG3	1.96	0.48
1:F:2554:ALA:HB1	1:F:2614:LYS:HD2	1.95	0.48
1:A:305:ILE:HD13	1:A:327:GLU:HG2	1.95	0.48
1:A:2058:ASP:OD1	1:A:2058:ASP:N	2.46	0.48
1:A:2094:HIS:O	1:A:2098:THR:HG22	2.13	0.48
1:A:2676:SER:HB2	1:F:2845:PHE:CE1	2.49	0.48
1:B:1103:VAL:HG21	1:B:1269:MET:SD	2.54	0.48
1:D:257:ARG:NH1	1:F:1695:LEU:HD23	2.23	0.48
1:D:2736:PRO:HG2	1:D:2746:SER:HA	1.96	0.48
1:E:1625:LEU:HD11	1:E:1660:LEU:HB3	1.96	0.48
1:E:1996:PRO:O	1:E:2000:LEU:N	2.41	0.48
1:E:2291:LEU:HD21	1:E:2332:LEU:HD22	1.95	0.48
1:F:1111:PHE:HE1	1:F:1129:LEU:HD11	1.78	0.48
1:F:1711:VAL:HA	1:F:1714:LEU:HG	1.94	0.48
1:F:2762:VAL:HG22	1:F:2822:LEU:HB2	1.96	0.48
1:F:2926:SER:HB3	1:F:2976:TRP:HH2	1.79	0.48
1:A:207:MET:HA	1:A:249:THR:HG22	1.94	0.48
1:A:444:ILE:HD12	1:A:655:ALA:HA	1.95	0.48
1:A:671:THR:HB	1:A:682:ASN:CG	2.38	0.48
1:B:1637:VAL:HG21	1:B:1671:TRP:CD2	2.48	0.48
1:B:2274:LEU:HD23	1:B:2277:ILE:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2582:GLN:HB3	1:E:2554:ALA:HB2	1.94	0.48
1:B:2666:PRO:CB	1:B:2727:VAL:HA	2.44	0.48
1:C:315:VAL:C	1:C:317:LEU:H	2.22	0.48
1:D:1651:THR:HB	1:D:1656:LYS:HD2	1.95	0.48
1:D:2118:LEU:O	1:D:2122:ILE:CG1	2.60	0.48
1:D:2503:LYS:HE3	1:D:2505:GLU:OE2	2.13	0.48
1:E:1103:VAL:HG21	1:E:1269:MET:SD	2.54	0.48
1:E:1362:MET:HG3	1:E:1430:VAL:HG21	1.95	0.48
1:E:2592:PRO:HA	1:E:2599:TRP:CD1	2.49	0.48
1:F:361:THR:HG21	1:F:377:PRO:HG3	1.95	0.48
1:F:2094:HIS:O	1:F:2098:THR:HG22	2.14	0.48
1:A:1625:LEU:HD11	1:A:1660:LEU:HB3	1.96	0.48
1:A:2088:ARG:O	1:A:2188:ARG:NH1	2.47	0.48
1:A:2261:LYS:HA	1:A:2265:TRP:HB2	1.94	0.48
1:A:2667:THR:HB	1:A:3081:LEU:HD11	1.96	0.48
1:A:2762:VAL:HG22	1:A:2822:LEU:HB2	1.96	0.48
1:B:315:VAL:C	1:B:317:LEU:H	2.22	0.48
1:B:1533:VAL:HG13	1:B:1582:HIS:HB2	1.95	0.48
1:B:2098:THR:O	1:B:2102:TRP:CG	2.67	0.48
1:B:2554:ALA:HB1	1:B:2614:LYS:HD2	1.96	0.48
1:B:2670:MET:HE2	1:B:2675:PRO:HB3	1.96	0.48
1:B:2692:MET:HE3	1:B:2713:VAL:HB	1.96	0.48
1:B:2811:PHE:HB3	1:B:2894:THR:HG22	1.94	0.48
1:C:2098:THR:O	1:C:2102:TRP:CG	2.67	0.48
1:C:2670:MET:HE2	1:C:2675:PRO:HB3	1.96	0.48
1:D:184:LEU:HD13	1:D:311:TRP:HB3	1.96	0.48
1:D:1996:PRO:O	1:D:2000:LEU:N	2.41	0.48
1:D:2167:THR:HB	1:D:2198:ALA:HB3	1.96	0.48
1:E:868:ARG:HB3	1:E:872:ARG:NH1	2.28	0.48
1:E:2060:TRP:HZ2	1:E:2966:ASP:HA	1.79	0.48
1:E:2645:ASP:OD1	1:E:2647:VAL:HG23	2.14	0.48
1:E:2926:SER:HB3	1:E:2976:TRP:HH2	1.79	0.48
1:F:1508:ILE:HB	1:F:1562:ARG:HD3	1.96	0.48
1:F:2557:LEU:HD22	1:F:2613:ARG:HB2	1.94	0.48
1:F:2666:PRO:CB	1:F:2727:VAL:HA	2.44	0.48
1:A:184:LEU:HD13	1:A:311:TRP:HB3	1.96	0.48
1:A:2648:ALA:HA	1:A:2718:VAL:HG13	1.96	0.48
1:A:2686:MET:HE1	1:A:2935:LYS:HZ2	1.77	0.48
1:A:2926:SER:HB3	1:A:2976:TRP:HH2	1.79	0.48
1:B:501:VAL:HA	1:B:504:LYS:HE2	1.96	0.48
1:B:726:ILE:HG22	1:B:730:MET:HE3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2170:ARG:HB2	1:B:2175:ARG:HG3	1.96	0.48
1:B:2926:SER:HB3	1:B:2976:TRP:HH2	1.79	0.48
1:C:184:LEU:HD13	1:C:311:TRP:HB3	1.96	0.48
1:C:444:ILE:HD12	1:C:655:ALA:HA	1.95	0.48
1:C:2088:ARG:O	1:C:2188:ARG:NH1	2.47	0.48
1:D:1435:VAL:HG22	1:D:1703:ILE:HD12	1.95	0.48
1:D:1634:ARG:HH11	1:D:1639:ALA:N	2.08	0.48
1:D:1637:VAL:HG21	1:D:1671:TRP:CD2	2.48	0.48
1:D:2180:LYS:NZ	1:D:2962:ASP:HB3	2.29	0.48
1:D:2623:ALA:HB2	1:D:2812:LEU:HD21	1.94	0.48
1:D:2645:ASP:OD1	1:D:2647:VAL:HG23	2.14	0.48
1:F:2180:LYS:NZ	1:F:2962:ASP:HB3	2.29	0.48
1:F:2692:MET:HE3	1:F:2713:VAL:HB	1.96	0.48
1:A:301:LEU:HD13	1:A:330:LEU:HD22	1.96	0.48
1:A:1212:ALA:O	1:A:1342:ARG:NH2	2.45	0.48
1:A:2167:THR:HB	1:A:2198:ALA:HB3	1.96	0.48
1:A:2170:ARG:HB2	1:A:2175:ARG:HG3	1.96	0.48
1:B:361:THR:HG21	1:B:377:PRO:HG3	1.95	0.48
1:B:836:VAL:HG12	1:B:837:VAL:N	2.29	0.48
1:B:1362:MET:HG3	1:B:1430:VAL:HG21	1.95	0.48
1:B:1508:ILE:HB	1:B:1562:ARG:HD3	1.96	0.48
1:B:2557:LEU:HD22	1:B:2613:ARG:HB2	1.94	0.48
1:B:2614:LYS:NZ	1:E:2583:PHE:HB2	2.29	0.48
1:B:2762:VAL:HG22	1:B:2822:LEU:HB2	1.96	0.48
1:C:1103:VAL:HG21	1:C:1269:MET:SD	2.54	0.48
1:C:2845:PHE:CE1	1:D:2676:SER:HB2	2.49	0.48
1:D:1467:VAL:HA	1:D:1605:LYS:HD2	1.96	0.48
1:D:1625:LEU:HD11	1:D:1660:LEU:HB3	1.96	0.48
1:D:2094:HIS:O	1:D:2098:THR:HG22	2.13	0.48
1:E:1291:LYS:HA	1:E:1344:ALA:HB3	1.95	0.48
1:E:2648:ALA:HA	1:E:2718:VAL:HG13	1.96	0.48
1:E:2667:THR:HB	1:E:3081:LEU:HD11	1.96	0.48
1:E:2848:GLY:H	1:E:3001:HIS:CD2	2.32	0.48
1:F:184:LEU:HB3	1:F:311:TRP:HE3	1.78	0.48
1:F:501:VAL:HA	1:F:504:LYS:HE2	1.96	0.48
1:F:2736:PRO:HG2	1:F:2746:SER:HA	1.96	0.48
1:A:501:VAL:HA	1:A:504:LYS:HE2	1.96	0.48
1:A:836:VAL:HG12	1:A:837:VAL:N	2.29	0.48
1:A:1533:VAL:HG13	1:A:1582:HIS:HB2	1.95	0.48
1:A:2098:THR:O	1:A:2102:TRP:CG	2.67	0.48
1:B:1457:GLU:OE2	1:B:1614:TYR:OH	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2291:LEU:HD21	1:B:2332:LEU:HD22	1.95	0.48
1:B:2583:PHE:HB2	1:E:2614:LYS:NZ	2.29	0.48
1:B:2645:ASP:OD1	1:B:2647:VAL:HG23	2.14	0.48
1:C:305:ILE:HD13	1:C:327:GLU:HG2	1.95	0.48
1:C:501:VAL:HA	1:C:504:LYS:HE2	1.96	0.48
1:C:836:VAL:HG12	1:C:837:VAL:N	2.29	0.48
1:C:1381:ASP:OD1	1:C:1391:SER:OG	2.22	0.48
1:D:1103:VAL:HG21	1:D:1269:MET:SD	2.54	0.48
1:D:2592:PRO:HA	1:D:2599:TRP:CD1	2.49	0.48
1:E:803:GLU:OE1	1:E:2431:THR:CG2	2.62	0.48
1:E:1533:VAL:HG13	1:E:1582:HIS:HB2	1.95	0.48
1:F:2848:GLY:H	1:F:3001:HIS:CD2	2.31	0.48
1:A:2614:LYS:NZ	1:F:2583:PHE:HB2	2.29	0.48
1:A:2666:PRO:CB	1:A:2727:VAL:HA	2.44	0.48
1:B:171:LYS:HE3	1:B:173:ALA:HB3	1.96	0.48
1:B:2088:ARG:C	1:B:2188:ARG:NH1	2.72	0.48
1:C:133:GLN:HG2	1:C:355:GLY:HA2	1.94	0.48
1:C:670:GLY:HA3	1:C:899:ALA:HB2	1.96	0.48
1:C:832:ASP:O	1:C:836:VAL:HG23	2.14	0.48
1:C:2170:ARG:HB2	1:C:2175:ARG:HG3	1.96	0.48
1:C:2926:SER:HB3	1:C:2976:TRP:HH2	1.79	0.48
1:D:1291:LYS:HA	1:D:1344:ALA:HB3	1.95	0.48
1:D:2670:MET:HE2	1:D:2675:PRO:HB3	1.96	0.48
1:D:2692:MET:HE3	1:D:2713:VAL:HB	1.96	0.48
1:E:301:LEU:HD13	1:E:330:LEU:HD22	1.96	0.48
1:F:2088:ARG:O	1:F:2188:ARG:NH1	2.47	0.48
1:F:2592:PRO:HA	1:F:2599:TRP:CD1	2.49	0.48
1:A:365:ALA:HB3	1:A:366:PRO:HD3	1.96	0.47
1:A:1467:VAL:HA	1:A:1605:LYS:HD2	1.96	0.47
1:A:2056:PHE:CZ	1:A:2180:LYS:HE2	2.47	0.47
1:A:2088:ARG:C	1:A:2188:ARG:NH1	2.72	0.47
1:B:641:ASP:OD1	1:B:641:ASP:N	2.47	0.47
1:B:1467:VAL:HA	1:B:1605:LYS:HD2	1.96	0.47
1:B:2592:PRO:HA	1:B:2599:TRP:CD1	2.49	0.47
1:C:171:LYS:HE3	1:C:173:ALA:HB3	1.96	0.47
1:C:1178:ASN:HB2	1:C:1185:LEU:HD11	1.94	0.47
1:C:1291:LYS:HA	1:C:1344:ALA:HB3	1.95	0.47
1:C:1996:PRO:O	1:C:2000:LEU:N	2.41	0.47
1:C:2000:LEU:HD12	1:F:2000:LEU:HD12	1.96	0.47
1:C:2843:GLN:HG2	1:C:2845:PHE:CZ	2.49	0.47
1:D:2088:ARG:C	1:D:2188:ARG:NH1	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2848:GLY:H	1:D:3001:HIS:CD2	2.31	0.47
1:E:361:THR:HG21	1:E:377:PRO:HG3	1.95	0.47
1:E:2088:ARG:C	1:E:2188:ARG:NH1	2.72	0.47
1:E:2843:GLN:HG2	1:E:2845:PHE:CZ	2.49	0.47
1:F:808:ALA:HB3	1:F:811:ASP:HB2	1.96	0.47
1:F:1996:PRO:O	1:F:2000:LEU:N	2.41	0.47
1:F:2667:THR:HB	1:F:3081:LEU:HD11	1.96	0.47
1:A:782:ARG:HD3	1:A:853:LEU:HD22	1.96	0.47
1:A:2348:GLN:O	1:A:2416:MET:HG3	2.15	0.47
1:A:2843:GLN:HG2	1:A:2845:PHE:CZ	2.49	0.47
1:B:184:LEU:HB3	1:B:311:TRP:HE3	1.78	0.47
1:B:936:ARG:O	1:B:941:ARG:N	2.44	0.47
1:B:2728:GLY:HA2	1:E:2848:GLY:HA2	1.97	0.47
1:B:2884:ASP:HA	1:B:2916:ARG:NH1	2.30	0.47
1:C:301:LEU:HD13	1:C:330:LEU:HD22	1.96	0.47
1:C:585:HIS:HD2	1:C:586:SER:H	1.62	0.47
1:C:808:ALA:HB3	1:C:811:ASP:HB2	1.96	0.47
1:C:2614:LYS:NZ	1:D:2583:PHE:HB2	2.29	0.47
1:C:2614:LYS:HG3	1:D:2583:PHE:HB2	1.97	0.47
1:C:2645:ASP:OD1	1:C:2647:VAL:HG23	2.13	0.47
1:D:1111:PHE:HE1	1:D:1129:LEU:HD11	1.78	0.47
1:D:2461:VAL:HG21	1:D:2751:VAL:HG13	1.96	0.47
1:D:2666:PRO:CB	1:D:2727:VAL:HA	2.44	0.47
1:D:3080:ARG:HG3	1:D:3080:ARG:NH1	2.09	0.47
1:E:171:LYS:HE3	1:E:173:ALA:HB3	1.96	0.47
1:E:305:ILE:HD13	1:E:327:GLU:HG2	1.95	0.47
1:E:365:ALA:HB3	1:E:366:PRO:HD3	1.97	0.47
1:E:832:ASP:O	1:E:836:VAL:HG23	2.14	0.47
1:E:1435:VAL:HG22	1:E:1703:ILE:HD12	1.95	0.47
1:E:2762:VAL:HG22	1:E:2822:LEU:HB2	1.96	0.47
1:E:2820:ILE:HD12	1:E:2822:LEU:HD21	1.95	0.47
1:F:868:ARG:HB3	1:F:872:ARG:NH1	2.28	0.47
1:F:1590:VAL:HG11	1:F:1671:TRP:CE2	2.49	0.47
1:F:2352:ILE:HG12	1:F:2412:ALA:HB1	1.96	0.47
1:F:2623:ALA:HB2	1:F:2812:LEU:HD21	1.94	0.47
1:A:361:THR:HG21	1:A:377:PRO:HG3	1.95	0.47
1:A:544:ILE:C	1:A:546:HIS:H	2.23	0.47
1:A:683:GLY:CA	1:A:700:ASN:HB2	2.44	0.47
1:A:2180:LYS:NZ	1:A:2962:ASP:HB3	2.29	0.47
1:A:2730:TYR:HH	1:A:3059:ARG:NH1	2.12	0.47
1:A:2845:PHE:CE1	1:F:2676:SER:HB2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:305:ILE:HD13	1:B:327:GLU:HG2	1.95	0.47
1:B:647:THR:HG22	1:B:901:ILE:HD11	1.96	0.47
1:B:803:GLU:OE1	1:B:2431:THR:CG2	2.62	0.47
1:B:1276:GLN:HE21	1:B:1292:LEU:HD13	1.79	0.47
1:B:1590:VAL:HG11	1:B:1671:TRP:CE2	2.49	0.47
1:B:1651:THR:HB	1:B:1656:LYS:HD2	1.95	0.47
1:B:2094:HIS:O	1:B:2098:THR:HG22	2.13	0.47
1:C:790:ALA:HB3	1:C:826:LEU:HD21	1.95	0.47
1:C:2210:VAL:HB	1:C:2277:ILE:HD11	1.97	0.47
1:C:2667:THR:HB	1:C:3081:LEU:HD11	1.95	0.47
1:D:2098:THR:O	1:D:2102:TRP:CG	2.67	0.47
1:D:2376:LEU:HD22	1:D:2392:VAL:HG21	1.96	0.47
1:D:2843:GLN:HG2	1:D:2845:PHE:CZ	2.49	0.47
1:E:674:TRP:CD1	1:E:895:THR:HG21	2.50	0.47
1:E:2170:ARG:HB2	1:E:2175:ARG:HG3	1.95	0.47
1:E:2736:PRO:HG2	1:E:2746:SER:HA	1.96	0.47
1:E:2891:LYS:HZ1	1:E:2904:THR:N	2.13	0.47
1:F:674:TRP:CD1	1:F:895:THR:HG21	2.50	0.47
1:F:832:ASP:O	1:F:836:VAL:HG23	2.14	0.47
1:F:1362:MET:HG3	1:F:1430:VAL:HG21	1.95	0.47
1:F:1457:GLU:OE2	1:F:1614:TYR:OH	2.29	0.47
1:F:2670:MET:HE2	1:F:2675:PRO:HB3	1.96	0.47
1:A:171:LYS:HE3	1:A:173:ALA:HB3	1.96	0.47
1:A:606:ASN:H	1:A:606:ASN:HD22	1.62	0.47
1:A:1291:LYS:HA	1:A:1344:ALA:HB3	1.95	0.47
1:A:1651:THR:HB	1:A:1656:LYS:HD2	1.96	0.47
1:A:2891:LYS:HZ1	1:A:2904:THR:N	2.13	0.47
1:B:674:TRP:CD1	1:B:895:THR:HG21	2.49	0.47
1:B:2648:ALA:HA	1:B:2718:VAL:HG13	1.96	0.47
1:C:1467:VAL:HA	1:C:1605:LYS:HD2	1.96	0.47
1:C:2094:HIS:O	1:C:2098:THR:HG22	2.13	0.47
1:C:2167:THR:HB	1:C:2198:ALA:HB3	1.96	0.47
1:C:2180:LYS:NZ	1:C:2962:ASP:HB3	2.29	0.47
1:C:2249:MET:O	1:C:2250:SER:OG	2.28	0.47
1:D:782:ARG:HD3	1:D:853:LEU:HD22	1.96	0.47
1:D:997:GLU:HB3	1:D:1009:PRO:CG	2.44	0.47
1:D:2060:TRP:HZ2	1:D:2966:ASP:HA	1.79	0.47
1:D:2252:VAL:HG22	1:D:2255:ARG:NH2	2.30	0.47
1:D:2667:THR:HB	1:D:3081:LEU:HD11	1.96	0.47
1:E:670:GLY:HA3	1:E:899:ALA:HB2	1.96	0.47
1:E:683:GLY:CA	1:E:700:ASN:HB2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:808:ALA:HB3	1:E:811:ASP:HB2	1.96	0.47
1:E:1651:THR:HB	1:E:1656:LYS:HD2	1.95	0.47
1:E:2692:MET:HE3	1:E:2713:VAL:HB	1.96	0.47
1:F:670:GLY:HA3	1:F:899:ALA:HB2	1.96	0.47
1:F:2291:LEU:HD21	1:F:2332:LEU:HD22	1.95	0.47
1:A:647:THR:HG22	1:A:901:ILE:HD11	1.96	0.47
1:A:1276:GLN:HE21	1:A:1292:LEU:HD13	1.79	0.47
1:A:2583:PHE:HB2	1:F:2614:LYS:NZ	2.29	0.47
1:A:2820:ILE:HD12	1:A:2822:LEU:HD21	1.95	0.47
1:B:2376:LEU:HD22	1:B:2392:VAL:HG21	1.97	0.47
1:B:2452:ASP:CG	1:B:2453:LEU:N	2.73	0.47
1:C:141:ALA:O	1:C:145:MET:HB2	2.14	0.47
1:C:803:GLU:OE1	1:C:2431:THR:CG2	2.62	0.47
1:C:997:GLU:HB3	1:C:1009:PRO:CG	2.45	0.47
1:C:1455:VAL:HB	1:C:1480:ARG:HH12	1.80	0.47
1:C:2728:GLY:HA2	1:D:2848:GLY:HA2	1.97	0.47
1:D:315:VAL:C	1:D:317:LEU:H	2.22	0.47
1:D:2210:VAL:HB	1:D:2277:ILE:HD11	1.96	0.47
1:D:2989:LEU:HD12	1:D:2989:LEU:HA	1.77	0.47
1:E:444:ILE:HD12	1:E:655:ALA:HA	1.95	0.47
1:E:606:ASN:HD22	1:E:606:ASN:H	1.63	0.47
1:E:782:ARG:HD3	1:E:853:LEU:HD22	1.97	0.47
1:E:1276:GLN:HE21	1:E:1292:LEU:HD13	1.79	0.47
1:E:1590:VAL:HG11	1:E:1671:TRP:CE2	2.50	0.47
1:E:2670:MET:HE2	1:E:2675:PRO:HB3	1.96	0.47
1:E:2681:THR:O	1:E:2764:ALA:HA	2.15	0.47
1:F:171:LYS:HE3	1:F:173:ALA:HB3	1.96	0.47
1:F:966:PRO:O	1:F:970:ILE:N	2.48	0.47
1:F:1103:VAL:HG21	1:F:1269:MET:SD	2.54	0.47
1:F:1455:VAL:HB	1:F:1480:ARG:HH12	1.80	0.47
1:F:2060:TRP:HZ2	1:F:2966:ASP:HA	1.79	0.47
1:F:2088:ARG:C	1:F:2188:ARG:NH1	2.72	0.47
1:F:2681:THR:O	1:F:2764:ALA:HA	2.15	0.47
1:A:713:ALA:O	1:A:868:ARG:NH2	2.48	0.47
1:A:803:GLU:OE1	1:A:2431:THR:CG2	2.62	0.47
1:A:1103:VAL:HG21	1:A:1269:MET:SD	2.54	0.47
1:A:2452:ASP:CG	1:A:2453:LEU:N	2.73	0.47
1:A:2461:VAL:HG21	1:A:2751:VAL:HG13	1.96	0.47
1:A:2670:MET:HE2	1:A:2675:PRO:HB3	1.96	0.47
1:A:2692:MET:HE3	1:A:2713:VAL:HB	1.96	0.47
1:A:2884:ASP:HA	1:A:2916:ARG:NH1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:301:LEU:HD13	1:B:330:LEU:HD22	1.96	0.47
1:B:997:GLU:HB3	1:B:1009:PRO:CG	2.44	0.47
1:B:2352:ILE:HG12	1:B:2412:ALA:HB1	1.96	0.47
1:B:2676:SER:HB2	1:E:2845:PHE:CE1	2.49	0.47
1:C:674:TRP:CD1	1:C:895:THR:HG21	2.50	0.47
1:C:976:TRP:O	1:C:976:TRP:CG	2.68	0.47
1:C:2060:TRP:HZ2	1:C:2966:ASP:HA	1.79	0.47
1:C:2583:PHE:HB2	1:D:2614:LYS:HG3	1.97	0.47
1:C:2666:PRO:CB	1:C:2727:VAL:HA	2.44	0.47
1:C:2773:GLU:HA	1:C:2776:ILE:HG22	1.97	0.47
1:C:2884:ASP:HA	1:C:2916:ARG:NH1	2.30	0.47
1:C:3065:PRO:O	1:C:3069:GLN:N	2.42	0.47
1:D:674:TRP:CD1	1:D:895:THR:HG21	2.49	0.47
1:D:803:GLU:OE1	1:D:2431:THR:CG2	2.62	0.47
1:D:2648:ALA:HA	1:D:2718:VAL:HG13	1.96	0.47
1:E:647:THR:HG22	1:E:901:ILE:HD11	1.96	0.47
1:E:2180:LYS:NZ	1:E:2962:ASP:HB3	2.29	0.47
1:F:184:LEU:HD13	1:F:311:TRP:HB3	1.96	0.47
1:F:997:GLU:HB3	1:F:1009:PRO:CG	2.44	0.47
1:F:2210:VAL:HB	1:F:2277:ILE:HD11	1.96	0.47
1:F:2843:GLN:HG2	1:F:2845:PHE:CZ	2.49	0.47
1:A:88:SER:HG	1:A:311:TRP:CD1	2.33	0.47
1:A:141:ALA:O	1:A:145:MET:HB2	2.15	0.47
1:A:808:ALA:HB3	1:A:811:ASP:HB2	1.96	0.47
1:A:832:ASP:O	1:A:836:VAL:HG23	2.14	0.47
1:A:940:ARG:CG	1:A:940:ARG:O	2.60	0.47
1:A:997:GLU:HB3	1:A:1009:PRO:CG	2.44	0.47
1:A:1695:LEU:HD12	1:A:1695:LEU:HA	1.71	0.47
1:A:1996:PRO:O	1:A:2000:LEU:N	2.41	0.47
1:A:2291:LEU:HD21	1:A:2332:LEU:HD22	1.95	0.47
1:A:2592:PRO:HA	1:A:2599:TRP:CD1	2.49	0.47
1:A:2645:ASP:OD1	1:A:2647:VAL:HG23	2.14	0.47
1:B:184:LEU:HD13	1:B:311:TRP:HB3	1.96	0.47
1:B:778:THR:HG21	1:B:854:GLY:HA3	1.97	0.47
1:B:782:ARG:HD3	1:B:853:LEU:HD22	1.97	0.47
1:B:832:ASP:O	1:B:836:VAL:HG23	2.14	0.47
1:B:1072:TRP:HE1	1:B:1077:VAL:HG22	1.80	0.47
1:B:1111:PHE:HE1	1:B:1129:LEU:HD11	1.78	0.47
1:B:2736:PRO:HG2	1:B:2746:SER:HA	1.96	0.47
1:C:365:ALA:HB3	1:C:366:PRO:HD3	1.96	0.47
1:C:641:ASP:N	1:C:641:ASP:OD1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:936:ARG:O	1:C:941:ARG:N	2.44	0.47
1:C:1111:PHE:HE1	1:C:1129:LEU:HD11	1.78	0.47
1:C:1699:ARG:HG3	1:C:1730:GLU:HB3	1.97	0.47
1:C:2088:ARG:C	1:C:2188:ARG:NH1	2.72	0.47
1:C:2252:VAL:HG22	1:C:2255:ARG:NH2	2.30	0.47
1:C:2352:ILE:HG12	1:C:2412:ALA:HB1	1.96	0.47
1:C:2418:GLY:O	1:C:2422:GLU:N	2.40	0.47
1:C:2554:ALA:HB1	1:C:2614:LYS:HD2	1.95	0.47
1:C:2583:PHE:HB2	1:D:2614:LYS:NZ	2.29	0.47
1:C:2592:PRO:HA	1:C:2599:TRP:CD1	2.49	0.47
1:C:2848:GLY:HA2	1:D:2728:GLY:HA2	1.97	0.47
1:D:210:VAL:HG22	1:D:287:PHE:CD1	2.50	0.47
1:D:501:VAL:HA	1:D:504:LYS:HE2	1.96	0.47
1:D:647:THR:HG22	1:D:901:ILE:HD11	1.96	0.47
1:D:713:ALA:O	1:D:868:ARG:NH2	2.48	0.47
1:D:832:ASP:O	1:D:836:VAL:HG23	2.14	0.47
1:D:940:ARG:CG	1:D:940:ARG:O	2.60	0.47
1:D:1276:GLN:HE21	1:D:1292:LEU:HD13	1.79	0.47
1:D:1590:VAL:HG11	1:D:1671:TRP:CE2	2.50	0.47
1:D:2348:GLN:O	1:D:2416:MET:HG3	2.15	0.47
1:E:184:LEU:HD13	1:E:311:TRP:HB3	1.96	0.47
1:E:778:THR:HG21	1:E:854:GLY:HA3	1.97	0.47
1:E:1634:ARG:NH1	1:E:1639:ALA:H	2.11	0.47
1:E:2452:ASP:CG	1:E:2453:LEU:N	2.73	0.47
1:F:141:ALA:O	1:F:145:MET:HB2	2.15	0.47
1:F:683:GLY:CA	1:F:700:ASN:HB2	2.44	0.47
1:F:713:ALA:O	1:F:868:ARG:NH2	2.48	0.47
1:F:976:TRP:CG	1:F:976:TRP:O	2.68	0.47
1:F:1467:VAL:HA	1:F:1605:LYS:HD2	1.96	0.47
1:F:2098:THR:O	1:F:2102:TRP:CG	2.67	0.47
1:F:2252:VAL:HG22	1:F:2255:ARG:NH2	2.30	0.47
1:F:2452:ASP:CG	1:F:2453:LEU:N	2.73	0.47
1:F:2770:LEU:HB3	1:F:2815:GLN:HB3	1.97	0.47
1:A:641:ASP:N	1:A:641:ASP:OD1	2.48	0.47
1:B:210:VAL:HG22	1:B:287:PHE:CD1	2.50	0.47
1:B:365:ALA:O	1:B:369:ARG:N	2.42	0.47
1:B:2252:VAL:HG22	1:B:2255:ARG:NH2	2.30	0.47
1:B:2614:LYS:HG3	1:E:2583:PHE:HB2	1.97	0.47
1:C:210:VAL:HG22	1:C:287:PHE:CD1	2.50	0.47
1:C:602:ARG:NH2	1:C:641:ASP:OD1	2.27	0.47
1:C:745:THR:HG22	1:C:747:LEU:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1072:TRP:HE1	1:C:1077:VAL:HG22	1.80	0.47
1:C:2989:LEU:HD12	1:C:2989:LEU:HA	1.77	0.47
1:D:171:LYS:HE3	1:D:173:ALA:HB3	1.96	0.47
1:D:606:ASN:H	1:D:606:ASN:HD22	1.62	0.47
1:D:996:LEU:HA	1:D:1010:LEU:HA	1.97	0.47
1:D:2554:ALA:HB1	1:D:2614:LYS:HD2	1.96	0.47
1:D:2681:THR:O	1:D:2764:ALA:HA	2.15	0.47
1:E:836:VAL:HG12	1:E:837:VAL:N	2.29	0.47
1:E:966:PRO:O	1:E:970:ILE:N	2.48	0.47
1:E:1699:ARG:HG3	1:E:1730:GLU:HB3	1.97	0.47
1:E:2096:VAL:HG23	1:E:2097:ALA:H	1.80	0.47
1:F:301:LEU:HD13	1:F:330:LEU:HD22	1.96	0.47
1:F:518:ASP:HA	1:F:543:GLY:O	2.15	0.47
1:F:782:ARG:HD3	1:F:853:LEU:HD22	1.97	0.47
1:F:2648:ALA:HA	1:F:2718:VAL:HG13	1.96	0.47
1:A:315:VAL:C	1:A:317:LEU:H	2.22	0.47
1:A:674:TRP:CD1	1:A:895:THR:HG21	2.50	0.47
1:A:745:THR:HG22	1:A:747:LEU:H	1.80	0.47
1:A:1435:VAL:HG22	1:A:1703:ILE:HD12	1.95	0.47
1:A:2060:TRP:HZ2	1:A:2966:ASP:HA	1.79	0.47
1:A:2482:GLU:HG2	1:A:2956:PRO:HB3	1.97	0.47
1:B:966:PRO:O	1:B:970:ILE:N	2.48	0.47
1:B:1625:LEU:HD11	1:B:1660:LEU:HB3	1.95	0.47
1:B:2058:ASP:OD1	1:B:2058:ASP:N	2.46	0.47
1:B:2681:THR:O	1:B:2764:ALA:HA	2.15	0.47
1:C:1590:VAL:HG11	1:C:1671:TRP:CE2	2.50	0.47
1:D:1508:ILE:HB	1:D:1562:ARG:HD3	1.97	0.47
1:D:3080:ARG:CG	1:D:3080:ARG:NH1	2.72	0.47
1:E:141:ALA:O	1:E:145:MET:HB2	2.15	0.47
1:E:210:VAL:HG22	1:E:287:PHE:CD1	2.50	0.47
1:E:1455:VAL:HB	1:E:1480:ARG:HH12	1.80	0.47
1:E:1467:VAL:HA	1:E:1605:LYS:HD2	1.96	0.47
1:E:2167:THR:HB	1:E:2198:ALA:HB3	1.96	0.47
1:E:2348:GLN:O	1:E:2416:MET:HG3	2.15	0.47
1:F:210:VAL:HG22	1:F:287:PHE:CD1	2.50	0.47
1:F:1291:LYS:HZ2	1:F:1346:PRO:N	2.13	0.47
1:F:1625:LEU:HD11	1:F:1660:LEU:HB3	1.96	0.47
1:F:2348:GLN:O	1:F:2416:MET:HG3	2.15	0.47
1:F:2645:ASP:OD1	1:F:2647:VAL:HG23	2.13	0.47
1:A:198:ILE:HG12	1:C:1087:PHE:CE1	2.50	0.47
1:A:1699:ARG:HG3	1:A:1730:GLU:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:141:ALA:O	1:B:145:MET:HB2	2.15	0.47
1:B:647:THR:OG1	2:B:4000:FMN:O3P	2.27	0.47
1:B:2060:TRP:HZ2	1:B:2966:ASP:HA	1.79	0.47
1:B:2452:ASP:CG	1:B:2453:LEU:H	2.23	0.47
1:B:2785:ALA:HB1	1:B:2809:LEU:HG	1.97	0.47
1:C:2648:ALA:HA	1:C:2718:VAL:HG13	1.96	0.47
1:C:2692:MET:HE3	1:C:2713:VAL:HB	1.96	0.47
1:D:670:GLY:HA3	1:D:899:ALA:HB2	1.96	0.47
1:D:966:PRO:O	1:D:970:ILE:N	2.48	0.47
1:D:1072:TRP:HE1	1:D:1077:VAL:HG22	1.80	0.47
1:D:2773:GLU:HA	1:D:2776:ILE:HG22	1.97	0.47
1:D:2891:LYS:HZ1	1:D:2904:THR:N	2.13	0.47
1:D:2926:SER:HB3	1:D:2976:TRP:HH2	1.79	0.47
1:E:996:LEU:HA	1:E:1010:LEU:HA	1.98	0.47
1:E:997:GLU:HB3	1:E:1009:PRO:CG	2.45	0.47
1:E:2452:ASP:CG	1:E:2453:LEU:H	2.23	0.47
1:F:1072:TRP:HE1	1:F:1077:VAL:HG22	1.80	0.47
1:F:1276:GLN:HE21	1:F:1292:LEU:HD13	1.79	0.47
1:F:2452:ASP:CG	1:F:2453:LEU:H	2.23	0.47
1:F:2630:ASP:HB3	1:F:2633:VAL:HG23	1.97	0.47
1:F:2800:PHE:CE1	1:F:2812:LEU:HD22	2.50	0.47
1:F:2884:ASP:HA	1:F:2916:ARG:NH1	2.30	0.47
1:A:778:THR:HG21	1:A:854:GLY:HA3	1.97	0.46
1:A:1508:ILE:HB	1:A:1562:ARG:HD3	1.97	0.46
1:A:2352:ILE:HG12	1:A:2412:ALA:HB1	1.96	0.46
1:A:2736:PRO:HG2	1:A:2746:SER:HA	1.96	0.46
1:B:808:ALA:HB3	1:B:811:ASP:HB2	1.96	0.46
1:B:931:VAL:HG13	1:B:934:LEU:N	2.21	0.46
1:B:1450:ALA:N	1:B:1613:ARG:O	2.48	0.46
1:B:2000:LEU:HD12	1:D:2000:LEU:HD12	1.97	0.46
1:B:2482:GLU:HG2	1:B:2956:PRO:HB3	1.97	0.46
1:B:2667:THR:HB	1:B:3081:LEU:HD11	1.96	0.46
1:C:647:THR:HG22	1:C:901:ILE:HD11	1.96	0.46
1:C:1276:GLN:HE21	1:C:1292:LEU:HD13	1.79	0.46
1:C:2376:LEU:HD22	1:C:2392:VAL:HG21	1.97	0.46
1:D:141:ALA:O	1:D:145:MET:HB2	2.15	0.46
1:D:1087:PHE:CE1	1:E:198:ILE:HG12	2.51	0.46
1:D:2762:VAL:HG22	1:D:2822:LEU:HB2	1.96	0.46
1:E:2252:VAL:HG22	1:E:2255:ARG:NH2	2.30	0.46
1:E:2961:LEU:HD22	1:E:2976:TRP:CD1	2.51	0.46
1:F:540:ASN:ND2	1:F:544:ILE:HG13	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2785:ALA:HB1	1:F:2809:LEU:HG	1.97	0.46
1:A:1237:ARG:CZ	1:B:95:PRO:HB2	2.46	0.46
1:A:1455:VAL:HB	1:A:1480:ARG:HH12	1.80	0.46
1:A:1619:VAL:HA	1:A:1620:PRO:HD2	1.80	0.46
1:A:2630:ASP:HB3	1:A:2633:VAL:HG23	1.97	0.46
1:A:2681:THR:O	1:A:2764:ALA:HA	2.15	0.46
1:B:2180:LYS:NZ	1:B:2962:ASP:HB3	2.29	0.46
1:B:2252:VAL:HG13	1:B:2255:ARG:HH21	1.81	0.46
1:B:2348:GLN:O	1:B:2416:MET:HG3	2.15	0.46
1:B:2461:VAL:HG21	1:B:2751:VAL:HG13	1.96	0.46
1:B:2961:LEU:HD22	1:B:2976:TRP:CD1	2.50	0.46
1:C:713:ALA:O	1:C:868:ARG:NH2	2.48	0.46
1:C:1346:PRO:HG2	1:C:1699:ARG:HD3	1.97	0.46
1:C:1352:PHE:HA	1:C:1353:PRO:HD3	1.72	0.46
1:C:2630:ASP:HB3	1:C:2633:VAL:HG23	1.97	0.46
1:D:1450:ALA:N	1:D:1613:ARG:O	2.48	0.46
1:D:2610:ARG:NH1	1:D:2700:LEU:HD11	2.25	0.46
1:E:501:VAL:HA	1:E:504:LYS:HE2	1.96	0.46
1:E:2785:ALA:HB1	1:E:2809:LEU:HG	1.97	0.46
1:E:2884:ASP:HA	1:E:2916:ARG:NH1	2.29	0.46
1:F:641:ASP:N	1:F:641:ASP:OD1	2.48	0.46
1:A:768:LYS:HA	1:A:775:LEU:HD11	1.98	0.46
1:A:976:TRP:O	1:A:976:TRP:CG	2.68	0.46
1:A:1094:THR:O	1:A:1288:PRO:HG2	2.15	0.46
1:A:2376:LEU:HD22	1:A:2392:VAL:HG21	1.97	0.46
1:B:94:ARG:HG3	1:B:95:PRO:HD3	1.98	0.46
1:B:544:ILE:C	1:B:546:HIS:H	2.22	0.46
1:B:1455:VAL:HB	1:B:1480:ARG:HH12	1.80	0.46
1:B:1989:PHE:HD1	1:B:1992:LYS:HZ3	1.63	0.46
1:C:518:ASP:HA	1:C:543:GLY:O	2.15	0.46
1:C:778:THR:HG21	1:C:854:GLY:HA3	1.97	0.46
1:C:996:LEU:HA	1:C:1010:LEU:HA	1.97	0.46
1:C:2252:VAL:HG13	1:C:2255:ARG:HH21	1.80	0.46
1:C:2461:VAL:HG21	1:C:2751:VAL:HG13	1.96	0.46
1:C:2543:PHE:HA	1:C:2624:GLN:HE22	1.81	0.46
1:C:2961:LEU:HD22	1:C:2976:TRP:CD1	2.51	0.46
1:D:94:ARG:HG3	1:D:95:PRO:HD3	1.98	0.46
1:E:315:VAL:C	1:E:317:LEU:H	2.22	0.46
1:E:540:ASN:ND2	1:E:544:ILE:HG13	2.30	0.46
1:E:713:ALA:O	1:E:868:ARG:NH2	2.48	0.46
1:E:976:TRP:CG	1:E:976:TRP:O	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1508:ILE:HB	1:E:1562:ARG:HD3	1.96	0.46
1:E:2210:VAL:HB	1:E:2277:ILE:HD11	1.97	0.46
1:F:365:ALA:O	1:F:369:ARG:N	2.42	0.46
1:F:2180:LYS:HZ1	1:F:2962:ASP:HB3	1.80	0.46
1:A:365:ALA:O	1:A:369:ARG:N	2.42	0.46
1:A:745:THR:OG1	1:A:834:GLU:O	2.19	0.46
1:A:2000:LEU:HD12	1:E:2000:LEU:HD12	1.96	0.46
1:B:84:GLU:HB2	1:B:85:PRO:HD3	1.97	0.46
1:B:518:ASP:HA	1:B:543:GLY:O	2.15	0.46
1:B:713:ALA:O	1:B:868:ARG:NH2	2.48	0.46
1:B:976:TRP:O	1:B:976:TRP:CG	2.68	0.46
1:B:1346:PRO:HG2	1:B:1699:ARG:HD3	1.98	0.46
1:B:2770:LEU:HB3	1:B:2815:GLN:HB3	1.97	0.46
1:C:2361:VAL:HG21	1:C:2401:ILE:HD11	1.98	0.46
1:D:534:ASP:O	1:D:538:GLU:HG3	2.16	0.46
1:D:808:ALA:HB3	1:D:811:ASP:HB2	1.96	0.46
1:D:1237:ARG:CZ	1:E:95:PRO:HB2	2.46	0.46
1:D:2884:ASP:HA	1:D:2916:ARG:NH1	2.29	0.46
1:E:406:THR:OG1	1:E:418:GLU:OE1	2.34	0.46
1:E:575:HIS:CD2	1:E:644:LEU:HD22	2.49	0.46
1:E:641:ASP:OD1	1:E:641:ASP:N	2.48	0.46
1:E:684:MET:HG3	1:E:895:THR:HA	1.98	0.46
1:E:2252:VAL:HG13	1:E:2255:ARG:HH21	1.80	0.46
1:E:2543:PHE:HA	1:E:2624:GLN:HE22	1.81	0.46
1:F:88:SER:HG	1:F:311:TRP:CD1	2.33	0.46
1:F:745:THR:HG22	1:F:747:LEU:H	1.80	0.46
1:F:836:VAL:HG12	1:F:837:VAL:N	2.29	0.46
1:F:2461:VAL:HG21	1:F:2751:VAL:HG13	1.97	0.46
1:F:2482:GLU:HG2	1:F:2956:PRO:HB3	1.97	0.46
1:F:2543:PHE:HA	1:F:2624:GLN:HE22	1.81	0.46
1:A:210:VAL:HG22	1:A:287:PHE:CD1	2.50	0.46
1:A:1346:PRO:HG2	1:A:1699:ARG:HD3	1.98	0.46
1:A:2252:VAL:HG22	1:A:2255:ARG:NH2	2.30	0.46
1:A:2252:VAL:HG13	1:A:2255:ARG:HH21	1.80	0.46
1:A:2697:HIS:CD2	1:F:2700:LEU:HD22	2.43	0.46
1:A:2724:GLN:HG2	1:F:3001:HIS:CE1	2.51	0.46
1:B:540:ASN:ND2	1:B:544:ILE:HG13	2.30	0.46
1:B:1087:PHE:CE1	1:C:198:ILE:HG12	2.51	0.46
1:B:1319:ASP:HB2	1:B:1342:ARG:NH1	2.31	0.46
1:B:2137:GLU:O	1:B:2163:THR:N	2.30	0.46
1:B:2724:GLN:HG2	1:E:3001:HIS:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2843:GLN:HG2	1:B:2845:PHE:CZ	2.49	0.46
1:B:2978:ARG:NH1	1:B:2979:GLU:OE2	2.49	0.46
1:C:84:GLU:HB2	1:C:85:PRO:HD3	1.97	0.46
1:C:940:ARG:CG	1:C:940:ARG:O	2.60	0.46
1:C:2603:ARG:HH12	1:D:2612:PRO:HD2	1.81	0.46
1:C:2612:PRO:HD2	1:D:2603:ARG:HH12	1.81	0.46
1:D:365:ALA:HB3	1:D:366:PRO:HD3	1.96	0.46
1:D:976:TRP:CG	1:D:976:TRP:O	2.68	0.46
1:D:2252:VAL:HG13	1:D:2255:ARG:HH21	1.80	0.46
1:D:2452:ASP:CG	1:D:2453:LEU:H	2.23	0.46
1:D:2961:LEU:HD22	1:D:2976:TRP:CD1	2.51	0.46
1:E:1072:TRP:CD1	1:E:1097:VAL:HG22	2.51	0.46
1:E:1325:LEU:HD11	1:E:1343:LEU:HD22	1.98	0.46
1:E:2137:GLU:O	1:E:2163:THR:N	2.30	0.46
1:E:2361:VAL:HG21	1:E:2401:ILE:HD11	1.98	0.46
1:E:2769:ASP:OD1	1:E:2770:LEU:N	2.49	0.46
1:E:2773:GLU:HA	1:E:2776:ILE:HG22	1.97	0.46
1:F:205:PRO:CD	1:F:289:PRO:HB3	2.46	0.46
1:F:365:ALA:HB3	1:F:366:PRO:HD3	1.97	0.46
1:F:606:ASN:H	1:F:606:ASN:HD22	1.62	0.46
1:F:768:LYS:HA	1:F:775:LEU:HD11	1.97	0.46
1:F:803:GLU:OE1	1:F:2431:THR:CG2	2.62	0.46
1:A:518:ASP:HA	1:A:543:GLY:O	2.15	0.46
1:A:966:PRO:O	1:A:970:ILE:N	2.48	0.46
1:A:1590:VAL:HG11	1:A:1671:TRP:CE2	2.50	0.46
1:A:2961:LEU:HD22	1:A:2976:TRP:CD1	2.50	0.46
1:B:670:GLY:HA3	1:B:899:ALA:HB2	1.96	0.46
1:B:683:GLY:CA	1:B:700:ASN:HB2	2.44	0.46
1:B:768:LYS:HA	1:B:775:LEU:HD11	1.98	0.46
1:B:2848:GLY:HA2	1:E:2728:GLY:HA2	1.97	0.46
1:C:111:GLU:HB2	1:C:112:PRO:HD3	1.98	0.46
1:C:167:ALA:HB3	1:C:178:LEU:HD21	1.98	0.46
1:C:684:MET:HG3	1:C:895:THR:HA	1.98	0.46
1:C:768:LYS:HA	1:C:775:LEU:HD11	1.97	0.46
1:C:1072:TRP:CD1	1:C:1097:VAL:HG22	2.51	0.46
1:C:2348:GLN:O	1:C:2416:MET:HG3	2.15	0.46
1:D:222:LEU:HD21	1:D:236:VAL:HA	1.97	0.46
1:D:1094:THR:O	1:D:1288:PRO:HG2	2.15	0.46
1:D:1319:ASP:HB2	1:D:1342:ARG:NH1	2.31	0.46
1:D:2452:ASP:CG	1:D:2453:LEU:N	2.73	0.46
1:E:518:ASP:HA	1:E:543:GLY:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2630:ASP:HB3	1:E:2633:VAL:HG23	1.97	0.46
1:E:2978:ARG:NH1	1:E:2979:GLU:OE2	2.49	0.46
1:F:167:ALA:HB3	1:F:178:LEU:HD21	1.98	0.46
1:F:585:HIS:HD2	1:F:586:SER:H	1.62	0.46
1:F:602:ARG:NH2	1:F:641:ASP:OD1	2.27	0.46
1:F:1072:TRP:CD1	1:F:1097:VAL:HG22	2.51	0.46
1:F:1319:ASP:HB2	1:F:1342:ARG:NH1	2.31	0.46
1:F:2773:GLU:HA	1:F:2776:ILE:HG22	1.97	0.46
1:A:670:GLY:HA3	1:A:899:ALA:HB2	1.96	0.46
1:B:176:VAL:O	1:B:180:ALA:N	2.36	0.46
1:B:799:PHE:CZ	1:B:2433:ARG:CG	2.99	0.46
1:B:2210:VAL:HB	1:B:2277:ILE:HD11	1.96	0.46
1:B:2630:ASP:HB3	1:B:2633:VAL:HG23	1.97	0.46
1:C:1508:ILE:HB	1:C:1562:ARG:HD3	1.97	0.46
1:C:2946:LEU:HD22	1:C:2994:VAL:HG23	1.98	0.46
1:D:406:THR:OG1	1:D:418:GLU:OE1	2.34	0.46
1:D:518:ASP:HA	1:D:543:GLY:O	2.16	0.46
1:D:575:HIS:CD2	1:D:644:LEU:HD22	2.49	0.46
1:D:768:LYS:HA	1:D:775:LEU:HD11	1.98	0.46
1:D:1455:VAL:HB	1:D:1480:ARG:HH12	1.79	0.46
1:D:2361:VAL:HG21	1:D:2401:ILE:HD11	1.98	0.46
1:E:205:PRO:CD	1:E:289:PRO:HB3	2.46	0.46
1:E:222:LEU:HD21	1:E:236:VAL:HA	1.97	0.46
1:E:793:ARG:HH12	1:E:2523:GLU:CD	2.24	0.46
1:E:799:PHE:CZ	1:E:2433:ARG:CG	2.99	0.46
1:E:2297:ARG:HH22	1:E:2391:LYS:HZ3	1.64	0.46
1:E:2461:VAL:HG21	1:E:2751:VAL:HG13	1.96	0.46
1:E:2790:MET:SD	1:E:2800:PHE:HB2	2.56	0.46
1:F:647:THR:HG22	1:F:901:ILE:HD11	1.96	0.46
1:F:799:PHE:CZ	1:F:2433:ARG:CG	2.99	0.46
1:F:1133:VAL:O	1:F:1193:ALA:N	2.42	0.46
1:F:1325:LEU:HD11	1:F:1343:LEU:HD22	1.98	0.46
1:F:1346:PRO:HG2	1:F:1699:ARG:HD3	1.98	0.46
1:F:1450:ALA:N	1:F:1613:ARG:O	2.47	0.46
1:F:2376:LEU:HD22	1:F:2392:VAL:HG21	1.97	0.46
1:A:1450:ALA:N	1:A:1613:ARG:O	2.48	0.46
1:A:2452:ASP:CG	1:A:2453:LEU:H	2.23	0.46
1:A:2603:ARG:HH12	1:F:2612:PRO:HD2	1.81	0.46
1:A:2619:ARG:HH12	1:A:2779:GLY:HA2	1.81	0.46
1:A:2728:GLY:HA2	1:F:2848:GLY:HA2	1.97	0.46
1:A:2978:ARG:NH1	1:A:2979:GLU:OE2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:277:LEU:HD22	1:B:676:GLY:O	2.16	0.46
1:B:1072:TRP:CD1	1:B:1097:VAL:HG22	2.51	0.46
1:B:1094:THR:O	1:B:1288:PRO:HG2	2.15	0.46
1:B:2773:GLU:HA	1:B:2776:ILE:HG22	1.97	0.46
1:C:540:ASN:ND2	1:C:544:ILE:HG13	2.30	0.46
1:C:575:HIS:CD2	1:C:644:LEU:HD22	2.48	0.46
1:C:1304:LYS:O	1:C:1307:ASP:HB2	2.16	0.46
1:C:2762:VAL:HG22	1:C:2822:LEU:HB2	1.96	0.46
1:C:2845:PHE:HD2	1:C:2860:ALA:HA	1.81	0.46
1:D:374:GLY:C	1:D:375:ILE:HG13	2.41	0.46
1:D:745:THR:HG22	1:D:747:LEU:H	1.80	0.46
1:D:2790:MET:SD	1:D:2800:PHE:HB2	2.56	0.46
1:D:2946:LEU:HD22	1:D:2994:VAL:HG23	1.98	0.46
1:E:2352:ILE:HG12	1:E:2412:ALA:HB1	1.96	0.46
1:F:315:VAL:C	1:F:317:LEU:H	2.22	0.46
1:F:406:THR:OG1	1:F:418:GLU:OE1	2.34	0.46
1:F:778:THR:HG21	1:F:854:GLY:HA3	1.97	0.46
1:F:2252:VAL:HG13	1:F:2255:ARG:HH21	1.81	0.46
1:F:2978:ARG:NH1	1:F:2979:GLU:OE2	2.49	0.46
1:A:111:GLU:HB2	1:A:112:PRO:HD3	1.98	0.46
1:A:793:ARG:HH12	1:A:2523:GLU:CD	2.24	0.46
1:A:1087:PHE:CE1	1:B:198:ILE:HG12	2.51	0.46
1:A:1325:LEU:HD11	1:A:1343:LEU:HD22	1.98	0.46
1:A:2610:ARG:NH1	1:A:2700:LEU:HD21	2.31	0.46
1:A:2891:LYS:HZ2	1:A:2903:GLU:CG	2.29	0.46
1:B:111:GLU:HB2	1:B:112:PRO:HD3	1.98	0.46
1:B:205:PRO:CD	1:B:289:PRO:HB3	2.46	0.46
1:B:745:THR:HG22	1:B:747:LEU:H	1.80	0.46
1:B:868:ARG:HD3	1:B:872:ARG:HH12	1.81	0.46
1:B:2543:PHE:HA	1:B:2624:GLN:HE22	1.81	0.46
1:C:207:MET:HG3	1:C:292:VAL:HB	1.98	0.46
1:C:222:LEU:HD21	1:C:236:VAL:HA	1.97	0.46
1:C:406:THR:OG1	1:C:418:GLU:OE1	2.34	0.46
1:C:606:ASN:HD22	1:C:606:ASN:H	1.62	0.46
1:C:1457:GLU:OE2	1:C:1614:TYR:OH	2.30	0.46
1:C:2096:VAL:HG23	1:C:2097:ALA:H	1.80	0.46
1:C:2452:ASP:CG	1:C:2453:LEU:N	2.73	0.46
1:C:2790:MET:SD	1:C:2800:PHE:HB2	2.56	0.46
1:D:799:PHE:CZ	1:D:2433:ARG:CG	2.99	0.46
1:D:1634:ARG:NH1	1:D:1639:ALA:H	2.11	0.46
1:D:1699:ARG:HG3	1:D:1730:GLU:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2070:LEU:O	1:D:2074:GLU:HG3	2.16	0.46
1:D:2543:PHE:HA	1:D:2624:GLN:HE22	1.81	0.46
1:D:2630:ASP:HB3	1:D:2633:VAL:HG23	1.97	0.46
1:E:84:GLU:HB2	1:E:85:PRO:HD3	1.97	0.46
1:E:868:ARG:HD3	1:E:872:ARG:HH12	1.81	0.46
1:E:1346:PRO:HG2	1:E:1699:ARG:HD3	1.98	0.46
1:F:374:GLY:C	1:F:375:ILE:HG13	2.41	0.46
1:F:2961:LEU:HD22	1:F:2976:TRP:CD1	2.50	0.46
1:A:222:LEU:HD21	1:A:236:VAL:HA	1.97	0.46
1:A:406:THR:OG1	1:A:418:GLU:OE1	2.34	0.46
1:A:2212:TRP:HA	1:A:2229:LYS:HB3	1.98	0.46
1:A:2610:ARG:NH1	1:A:2700:LEU:HD11	2.25	0.46
1:A:2773:GLU:HA	1:A:2776:ILE:HG22	1.97	0.46
1:A:2790:MET:SD	1:A:2800:PHE:HB2	2.56	0.46
1:B:207:MET:HG3	1:B:292:VAL:HB	1.98	0.46
1:B:1352:PHE:HA	1:B:1353:PRO:HD3	1.72	0.46
1:B:2583:PHE:HB2	1:E:2614:LYS:HG3	1.97	0.46
1:B:2610:ARG:NH1	1:B:2700:LEU:HD21	2.31	0.46
1:B:2612:PRO:HD2	1:E:2603:ARG:HH12	1.81	0.46
1:B:2672:TRP:CD1	1:B:2831:MET:HG2	2.51	0.46
1:B:2737:VAL:HG12	1:E:2716:ASN:OD1	2.16	0.46
1:B:2769:ASP:OD1	1:B:2770:LEU:N	2.49	0.46
1:B:2891:LYS:HG3	1:B:2924:ILE:HD13	1.99	0.46
1:C:745:THR:OG1	1:C:834:GLU:O	2.19	0.46
1:C:1702:GLU:OE1	1:C:1712:ALA:N	2.49	0.46
1:C:2978:ARG:NH1	1:C:2979:GLU:OE2	2.49	0.46
1:D:195:ARG:NH1	1:D:198:ILE:HD12	2.31	0.46
1:D:540:ASN:ND2	1:D:544:ILE:HG13	2.30	0.46
1:D:544:ILE:C	1:D:546:HIS:H	2.23	0.46
1:D:598:TYR:OH	1:D:639:PRO:O	2.30	0.46
1:D:2770:LEU:HB3	1:D:2815:GLN:HB3	1.97	0.46
1:D:2978:ARG:NH1	1:D:2979:GLU:OE2	2.49	0.46
1:E:94:ARG:HG3	1:E:95:PRO:HD3	1.98	0.46
1:E:936:ARG:O	1:E:941:ARG:N	2.45	0.46
1:E:2619:ARG:NH1	1:E:2779:GLY:HA2	2.31	0.46
1:E:2800:PHE:CE1	1:E:2812:LEU:HD22	2.50	0.46
1:F:793:ARG:HH12	1:F:2523:GLU:CD	2.24	0.46
1:F:1699:ARG:HG3	1:F:1730:GLU:HB3	1.97	0.46
1:F:2891:LYS:HG3	1:F:2924:ILE:HD13	1.98	0.46
1:F:2946:LEU:HD22	1:F:2994:VAL:HG23	1.98	0.46
1:F:3065:PRO:O	1:F:3069:GLN:N	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:94:ARG:HG3	1:A:95:PRO:HD3	1.98	0.45
1:A:534:ASP:O	1:A:538:GLU:HG3	2.16	0.45
1:A:799:PHE:CZ	1:A:2433:ARG:CG	2.99	0.45
1:A:1483:LYS:O	1:A:1487:ILE:HG23	2.17	0.45
1:A:2086:SER:HA	1:A:2089:PHE:CG	2.52	0.45
1:A:2769:ASP:OD1	1:A:2770:LEU:N	2.49	0.45
1:A:2891:LYS:HG3	1:A:2924:ILE:HD13	1.98	0.45
1:B:167:ALA:HB3	1:B:178:LEU:HD21	1.98	0.45
1:B:602:ARG:NH2	1:B:641:ASP:OD1	2.27	0.45
1:B:1699:ARG:HG3	1:B:1730:GLU:HB3	1.97	0.45
1:B:2603:ARG:HH12	1:E:2612:PRO:HD2	1.81	0.45
1:B:2619:ARG:HH12	1:B:2779:GLY:HA2	1.81	0.45
1:B:2845:PHE:HD2	1:B:2860:ALA:HA	1.81	0.45
1:B:2889:ILE:HD11	1:B:2922:LEU:HD22	1.98	0.45
1:C:277:LEU:HD22	1:C:676:GLY:O	2.16	0.45
1:C:868:ARG:HD3	1:C:872:ARG:HH12	1.81	0.45
1:C:1462:ALA:HB2	1:C:1468:TYR:HE1	1.82	0.45
1:C:2610:ARG:NH1	1:C:2700:LEU:HD21	2.31	0.45
1:C:2724:GLN:HG2	1:D:3001:HIS:CE1	2.51	0.45
1:C:2785:ALA:HB1	1:C:2809:LEU:HG	1.97	0.45
1:D:167:ALA:HB3	1:D:178:LEU:HD21	1.98	0.45
1:D:205:PRO:CD	1:D:289:PRO:HB3	2.46	0.45
1:D:2246:ALA:N	1:D:2255:ARG:NH1	2.64	0.45
1:E:534:ASP:O	1:E:538:GLU:HG3	2.16	0.45
1:E:1094:THR:O	1:E:1288:PRO:HG2	2.15	0.45
1:E:1695:LEU:HD12	1:E:1695:LEU:HA	1.70	0.45
1:E:2891:LYS:HG3	1:E:2924:ILE:HD13	1.98	0.45
1:F:868:ARG:HD3	1:F:872:ARG:HH12	1.81	0.45
1:F:1519:VAL:HG13	1:F:1530:LEU:HD23	1.98	0.45
1:F:2070:LEU:O	1:F:2074:GLU:HG3	2.16	0.45
1:F:2086:SER:HA	1:F:2089:PHE:CG	2.52	0.45
1:A:2946:LEU:HD22	1:A:2994:VAL:HG23	1.98	0.45
1:B:47:ALA:O	1:B:353:ASP:HA	2.17	0.45
1:B:406:THR:OG1	1:B:418:GLU:OE1	2.34	0.45
1:B:585:HIS:HD2	1:B:586:SER:H	1.62	0.45
1:B:606:ASN:HD22	1:B:606:ASN:H	1.62	0.45
1:B:2086:SER:HA	1:B:2089:PHE:CG	2.52	0.45
1:B:2716:ASN:OD1	1:E:2737:VAL:HG12	2.16	0.45
1:B:2790:MET:SD	1:B:2800:PHE:HB2	2.56	0.45
1:B:3080:ARG:HG3	1:B:3080:ARG:NH1	2.09	0.45
1:C:205:PRO:CD	1:C:289:PRO:HB3	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:746:TYR:HB2	1:C:833:ALA:HB1	1.99	0.45
1:C:782:ARG:HD3	1:C:853:LEU:HD22	1.97	0.45
1:C:784:GLU:OE2	1:C:816:LEU:HD21	2.16	0.45
1:C:2452:ASP:CG	1:C:2453:LEU:H	2.24	0.45
1:C:2482:GLU:HG2	1:C:2956:PRO:HB3	1.97	0.45
1:C:2619:ARG:NH1	1:C:2779:GLY:HA2	2.31	0.45
1:D:351:ILE:HB	1:D:375:ILE:HG12	1.99	0.45
1:D:544:ILE:O	1:D:546:HIS:N	2.41	0.45
1:D:778:THR:HG21	1:D:854:GLY:HA3	1.97	0.45
1:D:836:VAL:HG12	1:D:837:VAL:N	2.29	0.45
1:D:1325:LEU:HD11	1:D:1343:LEU:HD22	1.98	0.45
1:D:2619:ARG:NH1	1:D:2779:GLY:HA2	2.31	0.45
1:E:1237:ARG:CZ	1:F:95:PRO:HB2	2.45	0.45
1:E:2334:HIS:CD2	1:E:2391:LYS:HG3	2.50	0.45
1:E:2889:ILE:HD11	1:E:2922:LEU:HD22	1.98	0.45
1:E:2989:LEU:HD12	1:E:2989:LEU:HA	1.77	0.45
1:F:277:LEU:HD22	1:F:676:GLY:O	2.16	0.45
1:F:534:ASP:O	1:F:538:GLU:HG3	2.16	0.45
1:F:684:MET:HG3	1:F:895:THR:HA	1.98	0.45
1:F:784:GLU:OE2	1:F:816:LEU:HD21	2.16	0.45
1:F:1094:THR:O	1:F:1288:PRO:HG2	2.15	0.45
1:F:1702:GLU:OE1	1:F:1712:ALA:N	2.49	0.45
1:F:2096:VAL:HG13	1:F:2097:ALA:H	1.80	0.45
1:F:2246:ALA:N	1:F:2255:ARG:NH1	2.64	0.45
1:F:2790:MET:SD	1:F:2800:PHE:HB2	2.56	0.45
1:A:167:ALA:HB3	1:A:178:LEU:HD21	1.98	0.45
1:A:374:GLY:C	1:A:375:ILE:HG13	2.41	0.45
1:A:381:ARG:O	1:A:384:GLN:HG2	2.17	0.45
1:A:585:HIS:CB	1:A:694:ASP:HB2	2.47	0.45
1:A:1284:GLY:HA2	1:A:1343:LEU:HD11	1.99	0.45
1:A:1319:ASP:HB2	1:A:1342:ARG:NH1	2.31	0.45
1:A:1612:GLY:N	1:A:1623:PHE:O	2.48	0.45
1:A:2848:GLY:HA2	1:F:2728:GLY:HA2	1.97	0.45
1:B:365:ALA:HB3	1:B:366:PRO:HD3	1.96	0.45
1:B:684:MET:HG3	1:B:895:THR:HA	1.98	0.45
1:B:1462:ALA:HB2	1:B:1468:TYR:HE1	1.81	0.45
1:B:1612:GLY:N	1:B:1623:PHE:O	2.48	0.45
1:B:2234:PRO:HB2	1:B:2287:LEU:HD13	1.98	0.45
1:B:3001:HIS:CE1	1:E:2724:GLN:HG2	2.51	0.45
1:C:1488:VAL:HB	1:C:1579:VAL:HG22	1.99	0.45
1:C:2234:PRO:HB2	1:C:2287:LEU:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2702:GLY:HA3	1:D:2557:LEU:CG	2.45	0.45
1:D:47:ALA:O	1:D:353:ASP:HA	2.17	0.45
1:D:277:LEU:HD22	1:D:676:GLY:O	2.16	0.45
1:D:1612:GLY:N	1:D:1623:PHE:O	2.48	0.45
1:D:2234:PRO:HB2	1:D:2287:LEU:HD13	1.98	0.45
1:D:2352:ILE:HG12	1:D:2412:ALA:HB1	1.96	0.45
1:E:167:ALA:HB3	1:E:178:LEU:HD21	1.98	0.45
1:E:745:THR:HG22	1:E:747:LEU:H	1.80	0.45
1:E:784:GLU:OE2	1:E:816:LEU:HD21	2.16	0.45
1:E:1319:ASP:HB2	1:E:1342:ARG:NH1	2.31	0.45
1:E:1450:ALA:N	1:E:1613:ARG:O	2.47	0.45
1:E:2610:ARG:NH1	1:E:2700:LEU:HD21	2.31	0.45
1:E:2845:PHE:HD2	1:E:2860:ALA:HA	1.82	0.45
1:F:996:LEU:HA	1:F:1010:LEU:HA	1.97	0.45
1:F:1483:LYS:O	1:F:1487:ILE:HG23	2.17	0.45
1:F:1660:LEU:HD23	1:F:1660:LEU:HA	1.86	0.45
1:F:2212:TRP:HA	1:F:2229:LYS:HB3	1.98	0.45
1:F:2234:PRO:HB2	1:F:2287:LEU:HD13	1.98	0.45
1:A:205:PRO:CD	1:A:289:PRO:HB3	2.46	0.45
1:A:1072:TRP:CD1	1:A:1097:VAL:HG22	2.51	0.45
1:A:2297:ARG:HH22	1:A:2391:LYS:HZ3	1.65	0.45
1:A:2583:PHE:HB2	1:F:2614:LYS:HZ2	1.80	0.45
1:A:2583:PHE:HB2	1:F:2614:LYS:HG3	1.97	0.45
1:A:2619:ARG:NH1	1:A:2779:GLY:HA2	2.31	0.45
1:A:2702:GLY:HA3	1:F:2557:LEU:CG	2.45	0.45
1:B:195:ARG:NH1	1:B:198:ILE:HD12	2.31	0.45
1:B:222:LEU:HD21	1:B:236:VAL:HA	1.97	0.45
1:B:2452:ASP:HA	1:B:3017:ALA:HA	1.99	0.45
1:B:2610:ARG:NH1	1:B:2700:LEU:HD11	2.25	0.45
1:B:2619:ARG:NH1	1:B:2779:GLY:HA2	2.31	0.45
1:B:2946:LEU:HD22	1:B:2994:VAL:HG23	1.98	0.45
1:C:351:ILE:HB	1:C:375:ILE:HG12	1.99	0.45
1:C:683:GLY:CA	1:C:700:ASN:HB2	2.44	0.45
1:C:763:SER:HB3	1:C:766:ASP:HB2	1.99	0.45
1:C:1171:PRO:HA	1:C:1191:ARG:HG2	1.99	0.45
1:C:2681:THR:O	1:C:2764:ALA:HA	2.15	0.45
1:C:2800:PHE:CE1	1:C:2812:LEU:HD22	2.50	0.45
1:D:198:ILE:HG12	1:F:1087:PHE:CE1	2.51	0.45
1:D:207:MET:HG3	1:D:292:VAL:HB	1.98	0.45
1:D:550:LYS:HD3	1:D:577:GLU:OE2	2.17	0.45
1:D:746:TYR:HB2	1:D:833:ALA:HB1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1072:TRP:CD1	1:D:1097:VAL:HG22	2.51	0.45
1:D:1226:ARG:CG	1:D:1313:VAL:HG12	2.47	0.45
1:D:2472:TYR:CZ	1:D:2930:LEU:HD22	2.52	0.45
1:D:2686:MET:HE1	1:D:2935:LYS:HZ2	1.81	0.45
1:D:2891:LYS:HZ2	1:D:2903:GLU:CG	2.30	0.45
1:E:222:LEU:HD13	1:E:248:ILE:HD12	1.99	0.45
1:E:374:GLY:C	1:E:375:ILE:HG13	2.41	0.45
1:E:1087:PHE:CE1	1:F:198:ILE:HG12	2.51	0.45
1:E:1553:ALA:O	1:E:1557:GLU:HG2	2.17	0.45
1:E:2070:LEU:O	1:E:2074:GLU:HG3	2.16	0.45
1:E:2482:GLU:HG2	1:E:2956:PRO:HB3	1.97	0.45
1:E:2891:LYS:HZ2	1:E:2903:GLU:CG	2.29	0.45
1:E:3080:ARG:CG	1:E:3080:ARG:NH1	2.72	0.45
1:F:84:GLU:HB2	1:F:85:PRO:HD3	1.98	0.45
1:F:585:HIS:CB	1:F:694:ASP:HB2	2.47	0.45
1:F:1634:ARG:NH1	1:F:1639:ALA:H	2.11	0.45
1:F:2137:GLU:O	1:F:2163:THR:N	2.30	0.45
1:F:2889:ILE:HD11	1:F:2922:LEU:HD22	1.98	0.45
1:A:47:ALA:O	1:A:353:ASP:HA	2.17	0.45
1:A:84:GLU:HB2	1:A:85:PRO:HD3	1.98	0.45
1:A:95:PRO:HB2	1:C:1237:ARG:CZ	2.45	0.45
1:A:195:ARG:NH1	1:A:198:ILE:HD12	2.31	0.45
1:A:540:ASN:ND2	1:A:544:ILE:HG13	2.31	0.45
1:A:684:MET:HG3	1:A:895:THR:HA	1.98	0.45
1:A:1304:LYS:O	1:A:1307:ASP:HB2	2.16	0.45
1:A:1462:ALA:HB2	1:A:1468:TYR:HE1	1.81	0.45
1:A:2361:VAL:HG21	1:A:2401:ILE:HD11	1.98	0.45
1:A:2543:PHE:HA	1:A:2624:GLN:HE22	1.81	0.45
1:A:2612:PRO:HD2	1:F:2603:ARG:HH12	1.81	0.45
1:B:381:ARG:O	1:B:384:GLN:HG2	2.17	0.45
1:B:746:TYR:HB2	1:B:833:ALA:HB1	1.99	0.45
1:B:793:ARG:HH12	1:B:2523:GLU:CD	2.24	0.45
1:B:996:LEU:HA	1:B:1010:LEU:HA	1.97	0.45
1:B:1237:ARG:CZ	1:C:95:PRO:HB2	2.45	0.45
1:B:1304:LYS:O	1:B:1307:ASP:HB2	2.16	0.45
1:B:1325:LEU:HD11	1:B:1343:LEU:HD22	1.98	0.45
1:B:1553:ALA:O	1:B:1557:GLU:HG2	2.17	0.45
1:C:195:ARG:NH1	1:C:198:ILE:HD12	2.31	0.45
1:C:222:LEU:HD13	1:C:248:ILE:HD12	1.99	0.45
1:C:534:ASP:O	1:C:538:GLU:HG3	2.16	0.45
1:C:793:ARG:HH12	1:C:2523:GLU:CD	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:966:PRO:O	1:C:970:ILE:N	2.48	0.45
1:C:2058:ASP:OD1	1:C:2058:ASP:N	2.46	0.45
1:C:2619:ARG:HH12	1:C:2779:GLY:HA2	1.81	0.45
1:C:2891:LYS:HZ2	1:C:2903:GLU:HG2	1.82	0.45
1:D:95:PRO:HB2	1:F:1237:ARG:CZ	2.46	0.45
1:D:111:GLU:HB2	1:D:112:PRO:HD3	1.98	0.45
1:D:747:LEU:HD22	1:D:751:ARG:CZ	2.47	0.45
1:D:1304:LYS:O	1:D:1307:ASP:HB2	2.16	0.45
1:D:1346:PRO:HG2	1:D:1699:ARG:HD3	1.98	0.45
1:D:2086:SER:HA	1:D:2089:PHE:CG	2.52	0.45
1:D:2785:ALA:HB1	1:D:2809:LEU:HG	1.97	0.45
1:E:585:HIS:CB	1:E:694:ASP:HB2	2.47	0.45
1:E:1634:ARG:NH1	1:E:1639:ALA:N	2.65	0.45
1:E:1672:GLN:HE21	1:E:1672:GLN:HB3	1.58	0.45
1:E:2376:LEU:HD22	1:E:2392:VAL:HG21	1.97	0.45
1:E:2770:LEU:HB3	1:E:2815:GLN:HB3	1.97	0.45
1:F:1285:LYS:HB3	1:F:1286:PRO:HD2	1.99	0.45
1:F:2452:ASP:HA	1:F:3017:ALA:HA	1.99	0.45
1:F:2619:ARG:NH1	1:F:2779:GLY:HA2	2.31	0.45
1:A:277:LEU:HD22	1:A:676:GLY:O	2.16	0.45
1:A:1171:PRO:HA	1:A:1191:ARG:HG2	1.99	0.45
1:A:1553:ALA:O	1:A:1557:GLU:HG2	2.17	0.45
1:A:2210:VAL:HB	1:A:2277:ILE:HD11	1.96	0.45
1:B:2092:THR:O	1:B:2092:THR:CG2	2.64	0.45
1:C:585:HIS:CB	1:C:694:ASP:HB2	2.47	0.45
1:C:2212:TRP:HA	1:C:2229:LYS:HB3	1.98	0.45
1:C:2672:TRP:CD1	1:C:2831:MET:HG2	2.52	0.45
1:C:2716:ASN:OD1	1:D:2737:VAL:HG12	2.16	0.45
1:C:2845:PHE:CD2	1:C:2860:ALA:HA	2.52	0.45
1:D:868:ARG:HD3	1:D:872:ARG:HH12	1.81	0.45
1:D:1462:ALA:HB2	1:D:1468:TYR:HE1	1.81	0.45
1:D:2092:THR:O	1:D:2092:THR:CG2	2.64	0.45
1:D:2482:GLU:HG2	1:D:2956:PRO:HB3	1.97	0.45
1:D:2619:ARG:HH12	1:D:2779:GLY:HA2	1.81	0.45
1:D:2672:TRP:CD1	1:D:2831:MET:HG2	2.52	0.45
1:E:2212:TRP:HA	1:E:2229:LYS:HB3	1.98	0.45
1:E:2249:MET:O	1:E:2250:SER:OG	2.28	0.45
1:F:1634:ARG:NH1	1:F:1639:ALA:N	2.65	0.45
1:F:2300:PHE:CZ	1:F:2398:LEU:HB3	2.52	0.45
1:F:2891:LYS:HZ1	1:F:2904:THR:N	2.14	0.45
1:A:996:LEU:HA	1:A:1010:LEU:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1581:PHE:HB2	1:A:1586:LEU:HD22	1.99	0.45
1:A:1702:GLU:OE1	1:A:1712:ALA:N	2.49	0.45
1:A:2611:VAL:HA	1:A:2612:PRO:HD3	1.86	0.45
1:A:2614:LYS:HG3	1:F:2583:PHE:HB2	1.97	0.45
1:B:550:LYS:HD3	1:B:577:GLU:OE2	2.17	0.45
1:B:1519:VAL:HG13	1:B:1530:LEU:HD23	1.99	0.45
1:B:2472:TYR:CZ	1:B:2930:LEU:HD22	2.52	0.45
1:C:747:LEU:HD22	1:C:751:ARG:CZ	2.47	0.45
1:C:1284:GLY:HA2	1:C:1343:LEU:HD11	1.99	0.45
1:C:2246:ALA:N	1:C:2255:ARG:NH1	2.64	0.45
1:C:2770:LEU:HB3	1:C:2815:GLN:HB3	1.97	0.45
1:D:84:GLU:HB2	1:D:85:PRO:HD3	1.98	0.45
1:D:585:HIS:CB	1:D:694:ASP:HB2	2.47	0.45
1:D:793:ARG:HH12	1:D:2523:GLU:CD	2.24	0.45
1:D:1284:GLY:HA2	1:D:1343:LEU:HD11	1.99	0.45
1:D:1457:GLU:OE2	1:D:1614:TYR:OH	2.30	0.45
1:D:2845:PHE:HD2	1:D:2860:ALA:HA	1.82	0.45
1:E:277:LEU:HD22	1:E:676:GLY:O	2.16	0.45
1:E:1291:LYS:HZ2	1:E:1346:PRO:N	2.14	0.45
1:E:1381:ASP:OD1	1:E:1391:SER:OG	2.22	0.45
1:E:1605:LYS:H	1:E:1658:LYS:HE2	1.82	0.45
1:E:2086:SER:HA	1:E:2089:PHE:CG	2.52	0.45
1:F:763:SER:HB3	1:F:766:ASP:HB2	1.99	0.45
1:F:2619:ARG:HH12	1:F:2779:GLY:HA2	1.81	0.45
1:F:2845:PHE:HD2	1:F:2860:ALA:HA	1.82	0.45
1:F:2891:LYS:HZ2	1:F:2903:GLU:CG	2.30	0.45
1:A:2246:ALA:N	1:A:2255:ARG:NH1	2.64	0.45
1:A:2296:ASN:HB3	1:A:2299:MET:SD	2.57	0.45
1:B:374:GLY:C	1:B:375:ILE:HG13	2.41	0.45
1:B:534:ASP:O	1:B:538:GLU:HG3	2.16	0.45
1:B:1285:LYS:HB3	1:B:1286:PRO:HD2	1.99	0.45
1:B:2361:VAL:HG21	1:B:2401:ILE:HD11	1.98	0.45
1:B:2879:LEU:HD13	1:B:3009:VAL:HG11	1.98	0.45
1:C:47:ALA:O	1:C:353:ASP:HA	2.17	0.45
1:C:94:ARG:HG3	1:C:95:PRO:HD3	1.98	0.45
1:C:511:ARG:CB	1:C:540:ASN:HB2	2.46	0.45
1:C:1319:ASP:HB2	1:C:1342:ARG:NH1	2.31	0.45
1:C:1519:VAL:HG13	1:C:1530:LEU:HD23	1.99	0.45
1:C:3080:ARG:CG	1:C:3080:ARG:NH1	2.72	0.45
1:D:222:LEU:HD13	1:D:248:ILE:HD12	1.99	0.45
1:D:438:THR:HA	1:D:880:HIS:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:684:MET:HG3	1:D:895:THR:HA	1.98	0.45
1:D:784:GLU:OE2	1:D:816:LEU:HD21	2.16	0.45
1:E:111:GLU:HB2	1:E:112:PRO:HD3	1.98	0.45
1:E:1171:PRO:HA	1:E:1191:ARG:HG2	1.99	0.45
1:E:1284:GLY:HA2	1:E:1343:LEU:HD11	1.99	0.45
1:E:2234:PRO:HB2	1:E:2287:LEU:HD13	1.98	0.45
1:E:2472:TYR:CZ	1:E:2930:LEU:HD22	2.52	0.45
1:F:207:MET:HG3	1:F:292:VAL:HB	1.98	0.45
1:F:1226:ARG:CG	1:F:1313:VAL:HG12	2.47	0.45
1:F:1684:ASP:HA	1:F:1687:PHE:HD2	1.82	0.45
1:F:2610:ARG:NH1	1:F:2700:LEU:HD21	2.31	0.45
1:A:207:MET:HG3	1:A:292:VAL:HB	1.98	0.45
1:A:746:TYR:HB2	1:A:833:ALA:HB1	1.99	0.45
1:A:2672:TRP:CD1	1:A:2831:MET:HG2	2.52	0.45
1:A:2716:ASN:OD1	1:F:2737:VAL:HG12	2.17	0.45
1:A:2785:ALA:HB1	1:A:2809:LEU:HG	1.97	0.45
1:B:1226:ARG:CG	1:B:1313:VAL:HG12	2.47	0.45
1:B:1488:VAL:HB	1:B:1579:VAL:HG22	1.99	0.45
1:B:1581:PHE:HB2	1:B:1586:LEU:HD22	1.99	0.45
1:B:2246:ALA:N	1:B:2255:ARG:NH1	2.64	0.45
1:B:2958:ASN:HD22	1:B:2976:TRP:HE1	1.65	0.45
1:C:374:GLY:C	1:C:375:ILE:HG13	2.41	0.45
1:C:393:VAL:HG12	1:C:394:PRO:N	2.32	0.45
1:C:799:PHE:CZ	1:C:2433:ARG:CG	2.99	0.45
1:C:1483:LYS:O	1:C:1487:ILE:HG23	2.17	0.45
1:C:2070:LEU:O	1:C:2074:GLU:HG3	2.16	0.45
1:C:2300:PHE:CZ	1:C:2398:LEU:HB3	2.52	0.45
1:C:2686:MET:HE1	1:C:2935:LYS:HZ2	1.81	0.45
1:C:2879:LEU:HD13	1:C:3009:VAL:HG11	1.98	0.45
1:C:3001:HIS:CE1	1:D:2724:GLN:HG2	2.51	0.45
1:D:2845:PHE:CD2	1:D:2860:ALA:HA	2.52	0.45
1:E:1226:ARG:CG	1:E:1313:VAL:HG12	2.47	0.45
1:E:1304:LYS:O	1:E:1307:ASP:HB2	2.16	0.45
1:E:1483:LYS:O	1:E:1487:ILE:HG23	2.17	0.45
1:E:2246:ALA:N	1:E:2255:ARG:NH1	2.64	0.45
1:E:2296:ASN:HB3	1:E:2299:MET:SD	2.57	0.45
1:E:2879:LEU:HD13	1:E:3009:VAL:HG11	1.98	0.45
1:E:2891:LYS:HZ2	1:E:2903:GLU:CB	2.30	0.45
1:F:94:ARG:HG3	1:F:95:PRO:HD3	1.98	0.45
1:F:222:LEU:HD21	1:F:236:VAL:HA	1.97	0.45
1:F:222:LEU:HD13	1:F:248:ILE:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:747:LEU:HD22	1:F:751:ARG:CZ	2.47	0.45
1:F:1462:ALA:HB2	1:F:1468:TYR:HE1	1.81	0.45
1:F:2845:PHE:CD2	1:F:2860:ALA:HA	2.52	0.45
1:A:336:TRP:CH2	1:A:360:LEU:HD21	2.52	0.45
1:A:2737:VAL:HG12	1:F:2716:ASN:OD1	2.17	0.45
1:A:2845:PHE:HD2	1:A:2860:ALA:HA	1.82	0.45
1:A:3001:HIS:CE1	1:F:2724:GLN:HG2	2.51	0.45
1:A:3080:ARG:CG	1:A:3080:ARG:NH1	2.72	0.45
1:B:544:ILE:O	1:B:546:HIS:N	2.40	0.45
1:B:1483:LYS:O	1:B:1487:ILE:HG23	2.17	0.45
1:B:1702:GLU:OE1	1:B:1712:ALA:N	2.49	0.45
1:B:2800:PHE:CE1	1:B:2812:LEU:HD22	2.50	0.45
1:C:336:TRP:CH2	1:C:360:LEU:HD21	2.52	0.45
1:C:664:LEU:HB3	1:C:701:ALA:HB1	1.99	0.45
1:C:1226:ARG:CG	1:C:1313:VAL:HG12	2.47	0.45
1:C:1553:ALA:O	1:C:1557:GLU:HG2	2.17	0.45
1:C:1684:ASP:HA	1:C:1687:PHE:HD2	1.82	0.45
1:C:2737:VAL:HG12	1:D:2716:ASN:OD1	2.16	0.45
1:C:2769:ASP:OD1	1:C:2770:LEU:N	2.49	0.45
1:D:381:ARG:O	1:D:384:GLN:HG2	2.17	0.45
1:D:393:VAL:HG12	1:D:394:PRO:N	2.32	0.45
1:D:1291:LYS:HZ3	1:D:1346:PRO:HA	1.82	0.45
1:D:1553:ALA:O	1:D:1557:GLU:HG2	2.17	0.45
1:D:1684:ASP:HA	1:D:1687:PHE:HD2	1.82	0.45
1:E:336:TRP:CH2	1:E:360:LEU:HD21	2.52	0.45
1:E:1093:PRO:HB3	1:E:1277:HIS:CE1	2.52	0.45
1:F:1284:GLY:HA2	1:F:1343:LEU:HD11	1.99	0.45
1:F:2145:SER:O	1:F:2148:SER:OG	2.34	0.45
1:A:602:ARG:NH2	1:A:641:ASP:OD1	2.27	0.44
1:A:664:LEU:HB3	1:A:701:ALA:HB1	1.99	0.44
1:A:1285:LYS:HB3	1:A:1286:PRO:HD2	1.99	0.44
1:A:2472:TYR:CZ	1:A:2930:LEU:HD22	2.52	0.44
1:A:2891:LYS:HZ2	1:A:2903:GLU:HB3	1.82	0.44
1:B:393:VAL:HG12	1:B:394:PRO:N	2.32	0.44
1:B:438:THR:HA	1:B:880:HIS:CE1	2.51	0.44
1:C:381:ARG:O	1:C:384:GLN:HG2	2.17	0.44
1:C:1094:THR:O	1:C:1288:PRO:HG2	2.16	0.44
1:C:1268:GLY:HA2	1:C:1271:LEU:HD12	1.99	0.44
1:D:1268:GLY:HA2	1:D:1271:LEU:HD12	1.99	0.44
1:D:1488:VAL:HB	1:D:1579:VAL:HG22	1.99	0.44
1:D:2800:PHE:CE1	1:D:2812:LEU:HD22	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:207:MET:HG3	1:E:292:VAL:HB	1.98	0.44
1:E:1702:GLU:OE1	1:E:1712:ALA:N	2.49	0.44
1:E:2672:TRP:CD1	1:E:2831:MET:HG2	2.52	0.44
1:F:550:LYS:HD3	1:F:577:GLU:OE2	2.17	0.44
1:F:1304:LYS:O	1:F:1307:ASP:HB2	2.16	0.44
1:F:2296:ASN:HB3	1:F:2299:MET:SD	2.57	0.44
1:F:2299:MET:H	1:F:2299:MET:HG2	1.68	0.44
1:A:747:LEU:HD22	1:A:751:ARG:CZ	2.47	0.44
1:A:936:ARG:O	1:A:941:ARG:N	2.45	0.44
1:A:1605:LYS:H	1:A:1658:LYS:HE2	1.82	0.44
1:A:2070:LEU:O	1:A:2074:GLU:HG3	2.16	0.44
1:A:2462:VAL:HG13	1:A:2835:VAL:HG13	2.00	0.44
1:A:2770:LEU:HB3	1:A:2815:GLN:HB3	1.97	0.44
1:B:1133:VAL:O	1:B:1193:ALA:N	2.42	0.44
1:B:1634:ARG:NH1	1:B:1639:ALA:N	2.65	0.44
1:B:1684:ASP:HA	1:B:1687:PHE:HD2	1.82	0.44
1:B:2300:PHE:CZ	1:B:2398:LEU:HB3	2.52	0.44
1:B:2891:LYS:HZ1	1:B:2904:THR:N	2.15	0.44
1:C:550:LYS:HD3	1:C:577:GLU:OE2	2.17	0.44
1:C:1093:PRO:HB3	1:C:1277:HIS:CE1	2.52	0.44
1:C:1503:ILE:HB	1:C:1542:TYR:HB2	2.00	0.44
1:C:1660:LEU:HD23	1:C:1660:LEU:HA	1.85	0.44
1:C:2472:TYR:CZ	1:C:2930:LEU:HD22	2.52	0.44
1:D:1581:PHE:HB2	1:D:1586:LEU:HD22	1.99	0.44
1:D:1702:GLU:OE1	1:D:1712:ALA:N	2.50	0.44
1:D:2014:SER:H	1:E:2591:ARG:HH12	1.65	0.44
1:D:2452:ASP:HA	1:D:3017:ALA:HA	1.99	0.44
1:D:2610:ARG:NH1	1:D:2700:LEU:HD21	2.31	0.44
1:D:2769:ASP:OD1	1:D:2770:LEU:N	2.49	0.44
1:E:544:ILE:O	1:E:546:HIS:N	2.41	0.44
1:E:763:SER:HB3	1:E:766:ASP:HB2	1.99	0.44
1:E:1268:GLY:HA2	1:E:1271:LEU:HD12	1.99	0.44
1:F:195:ARG:NH1	1:F:198:ILE:HD12	2.31	0.44
1:F:544:ILE:O	1:F:546:HIS:N	2.40	0.44
1:F:2246:ALA:N	1:F:2255:ARG:HH12	2.16	0.44
1:F:2610:ARG:NH1	1:F:2700:LEU:HD11	2.25	0.44
1:F:2672:TRP:CD1	1:F:2831:MET:HG2	2.52	0.44
1:A:2246:ALA:N	1:A:2255:ARG:HH12	2.15	0.44
1:A:2879:LEU:HD13	1:A:3009:VAL:HG11	1.98	0.44
1:A:3065:PRO:O	1:A:3069:GLN:N	2.42	0.44
1:B:1093:PRO:HB3	1:B:1277:HIS:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1284:GLY:HA2	1:B:1343:LEU:HD11	1.99	0.44
1:B:2070:LEU:O	1:B:2074:GLU:HG3	2.16	0.44
1:B:2209:LEU:O	1:B:2213:VAL:HG23	2.18	0.44
1:B:2212:TRP:HA	1:B:2229:LYS:HB3	1.98	0.44
1:B:2246:ALA:N	1:B:2255:ARG:HH12	2.15	0.44
1:B:2296:ASN:HB3	1:B:2299:MET:SD	2.57	0.44
1:C:544:ILE:C	1:C:546:HIS:H	2.22	0.44
1:C:1634:ARG:NH1	1:C:1639:ALA:N	2.65	0.44
1:C:2086:SER:HA	1:C:2089:PHE:CG	2.51	0.44
1:C:2452:ASP:HA	1:C:3017:ALA:HA	1.98	0.44
1:C:2462:VAL:HG13	1:C:2835:VAL:HG13	2.00	0.44
1:C:2889:ILE:HD11	1:C:2922:LEU:HD22	1.98	0.44
1:D:763:SER:HB3	1:D:766:ASP:HB2	1.99	0.44
1:D:2300:PHE:CZ	1:D:2398:LEU:HB3	2.52	0.44
1:D:2471:PRO:HA	1:D:2625:ILE:HA	2.00	0.44
1:E:664:LEU:HB3	1:E:701:ALA:HB1	1.99	0.44
1:E:768:LYS:HA	1:E:775:LEU:HD11	1.97	0.44
1:E:1488:VAL:HB	1:E:1579:VAL:HG22	1.99	0.44
1:E:2619:ARG:HH12	1:E:2779:GLY:HA2	1.81	0.44
1:E:2891:LYS:HZ2	1:E:2903:GLU:HB3	1.82	0.44
1:F:47:ALA:O	1:F:353:ASP:HA	2.17	0.44
1:F:81:LEU:HD23	1:F:81:LEU:HA	1.88	0.44
1:F:511:ARG:CB	1:F:540:ASN:HB2	2.46	0.44
1:F:544:ILE:C	1:F:546:HIS:H	2.22	0.44
1:F:647:THR:OG1	2:F:4000:FMN:O3P	2.27	0.44
1:A:163:LEU:HD13	1:A:181:LEU:HD23	2.00	0.44
1:A:583:GLY:HA2	1:A:892:ILE:HD13	2.00	0.44
1:A:868:ARG:HD3	1:A:872:ARG:HH12	1.81	0.44
1:A:1226:ARG:CG	1:A:1313:VAL:HG12	2.47	0.44
1:A:2889:ILE:HD11	1:A:2922:LEU:HD22	1.98	0.44
1:B:784:GLU:OE2	1:B:816:LEU:HD21	2.16	0.44
1:B:2096:VAL:HG13	1:B:2097:ALA:H	1.80	0.44
1:B:2847:ASP:CG	1:B:2857:GLY:HA2	2.43	0.44
1:B:2903:GLU:OE2	1:B:2995:THR:OG1	2.36	0.44
1:C:1605:LYS:H	1:C:1658:LYS:HE2	1.82	0.44
1:C:1612:GLY:N	1:C:1623:PHE:O	2.48	0.44
1:D:210:VAL:HG22	1:D:287:PHE:HD1	1.82	0.44
1:D:782:ARG:NH1	1:D:857:VAL:HG22	2.33	0.44
1:D:1537:LEU:HD13	1:D:1541:GLN:HB2	2.00	0.44
1:D:2014:SER:N	1:E:2591:ARG:NH1	2.66	0.44
1:D:2096:VAL:HG13	1:D:2097:ALA:H	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2462:VAL:HG13	1:D:2835:VAL:HG13	2.00	0.44
1:D:2847:ASP:CG	1:D:2857:GLY:HA2	2.43	0.44
1:D:2891:LYS:HG3	1:D:2924:ILE:HD13	1.99	0.44
1:E:195:ARG:NH1	1:E:198:ILE:HD12	2.31	0.44
1:E:2014:SER:H	1:F:2591:ARG:HH12	1.65	0.44
1:E:2845:PHE:CD2	1:E:2860:ALA:HA	2.52	0.44
1:E:2946:LEU:HD22	1:E:2994:VAL:HG23	1.98	0.44
1:F:111:GLU:HB2	1:F:112:PRO:HD3	1.98	0.44
1:F:381:ARG:O	1:F:384:GLN:HG2	2.17	0.44
1:F:970:ILE:HG23	1:F:992:THR:HG21	2.00	0.44
1:F:1553:ALA:O	1:F:1557:GLU:HG2	2.17	0.44
1:F:1581:PHE:HB2	1:F:1586:LEU:HD22	1.99	0.44
1:F:1605:LYS:H	1:F:1658:LYS:HE2	1.82	0.44
1:F:2686:MET:HE1	1:F:2935:LYS:HZ2	1.81	0.44
1:F:2769:ASP:OD1	1:F:2770:LEU:N	2.49	0.44
1:F:2958:ASN:HD22	1:F:2976:TRP:HE1	1.65	0.44
1:A:1723:GLU:O	1:A:1725:SER:N	2.51	0.44
1:A:2903:GLU:OE2	1:A:2995:THR:OG1	2.36	0.44
1:B:575:HIS:CD2	1:B:644:LEU:HD22	2.49	0.44
1:B:747:LEU:HD22	1:B:751:ARG:CZ	2.47	0.44
1:B:1723:GLU:O	1:B:1725:SER:N	2.51	0.44
1:B:2845:PHE:CD2	1:B:2860:ALA:HA	2.52	0.44
1:C:88:SER:HB3	1:C:314:THR:OG1	2.18	0.44
1:C:1325:LEU:HD11	1:C:1343:LEU:HD22	1.98	0.44
1:C:1450:ALA:N	1:C:1613:ARG:O	2.48	0.44
1:C:2555:SER:HA	1:C:2556:PRO:HD2	1.85	0.44
1:C:2710:LEU:O	1:C:2713:VAL:HG22	2.18	0.44
1:D:2058:ASP:OD1	1:D:2058:ASP:N	2.46	0.44
1:D:2212:TRP:HA	1:D:2229:LYS:HB3	1.98	0.44
1:D:2580:PHE:HE1	1:D:2603:ARG:HH21	1.66	0.44
1:D:2889:ILE:HD11	1:D:2922:LEU:HD22	1.98	0.44
1:E:47:ALA:O	1:E:353:ASP:HA	2.17	0.44
1:E:163:LEU:HD13	1:E:181:LEU:HD23	2.00	0.44
1:E:393:VAL:HG12	1:E:394:PRO:N	2.32	0.44
1:E:544:ILE:C	1:E:546:HIS:H	2.22	0.44
1:E:1133:VAL:N	1:E:1193:ALA:O	2.48	0.44
1:E:1285:LYS:HB3	1:E:1286:PRO:HD2	1.99	0.44
1:E:1519:VAL:HG13	1:E:1530:LEU:HD23	1.99	0.44
1:F:42:GLU:HA	1:F:43:PRO:HD3	1.91	0.44
1:F:88:SER:HB3	1:F:314:THR:OG1	2.18	0.44
1:F:163:LEU:HD13	1:F:181:LEU:HD23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:782:ARG:NH1	1:F:857:VAL:HG22	2.33	0.44
1:F:1350:TYR:CD1	1:F:1703:ILE:HD11	2.53	0.44
1:F:1551:LEU:HD13	1:F:1551:LEU:HA	1.79	0.44
1:F:2472:TYR:CZ	1:F:2930:LEU:HD22	2.52	0.44
1:A:351:ILE:HB	1:A:375:ILE:HG12	1.99	0.44
1:A:2300:PHE:CZ	1:A:2398:LEU:HB3	2.52	0.44
1:A:2958:ASN:HD22	1:A:2976:TRP:HE1	1.65	0.44
1:B:1171:PRO:HA	1:B:1191:ARG:HG2	1.99	0.44
1:B:2014:SER:N	1:C:2591:ARG:NH1	2.66	0.44
1:B:2580:PHE:HE1	1:B:2603:ARG:HH21	1.66	0.44
1:B:2891:LYS:HZ2	1:B:2903:GLU:HG2	1.82	0.44
1:C:1350:TYR:CD1	1:C:1703:ILE:HD11	2.53	0.44
1:C:2246:ALA:N	1:C:2255:ARG:HH12	2.15	0.44
1:D:936:ARG:O	1:D:941:ARG:N	2.45	0.44
1:D:1171:PRO:HA	1:D:1191:ARG:HG2	1.99	0.44
1:D:2246:ALA:N	1:D:2255:ARG:HH12	2.15	0.44
1:D:2334:HIS:CD2	1:D:2391:LYS:HG3	2.50	0.44
1:D:2879:LEU:HD13	1:D:3009:VAL:HG11	1.98	0.44
1:E:351:ILE:HB	1:E:375:ILE:HG12	1.99	0.44
1:E:412:ASP:H	1:E:1025:VAL:CG2	2.31	0.44
1:E:747:LEU:HD22	1:E:751:ARG:CZ	2.47	0.44
1:E:1350:TYR:CD1	1:E:1703:ILE:HD11	2.53	0.44
1:F:657:THR:HB	1:F:662:LYS:HE3	2.00	0.44
1:F:936:ARG:O	1:F:941:ARG:N	2.45	0.44
1:F:1723:GLU:O	1:F:1725:SER:N	2.51	0.44
1:F:2541:ARG:O	1:F:2621:VAL:HG13	2.18	0.44
1:F:2554:ALA:HB1	1:F:2614:LYS:HZ2	1.81	0.44
1:F:2847:ASP:CG	1:F:2857:GLY:HA2	2.43	0.44
1:A:412:ASP:H	1:A:1025:VAL:CG2	2.31	0.44
1:A:782:ARG:NH1	1:A:857:VAL:HG22	2.33	0.44
1:A:784:GLU:OE2	1:A:816:LEU:HD21	2.16	0.44
1:A:1133:VAL:O	1:A:1193:ALA:N	2.42	0.44
1:A:1503:ILE:HB	1:A:1542:TYR:HB2	2.00	0.44
1:A:2452:ASP:HA	1:A:3017:ALA:HA	1.98	0.44
1:A:2471:PRO:HA	1:A:2625:ILE:HA	2.00	0.44
1:A:2891:LYS:HZ2	1:A:2903:GLU:CB	2.30	0.44
1:B:336:TRP:CH2	1:B:360:LEU:HD21	2.52	0.44
1:B:351:ILE:HB	1:B:375:ILE:HG12	1.99	0.44
1:B:412:ASP:H	1:B:1025:VAL:CG2	2.31	0.44
1:B:657:THR:HB	1:B:662:LYS:HE3	2.00	0.44
1:B:782:ARG:NH1	1:B:857:VAL:HG22	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1705:VAL:O	1:B:1735:GLU:HB2	2.18	0.44
1:C:782:ARG:NH1	1:C:857:VAL:HG22	2.33	0.44
1:C:970:ILE:HG23	1:C:992:THR:HG21	2.00	0.44
1:C:1581:PHE:HB2	1:C:1586:LEU:HD22	1.99	0.44
1:C:1723:GLU:O	1:C:1725:SER:N	2.51	0.44
1:C:2471:PRO:HA	1:C:2625:ILE:HA	2.00	0.44
1:D:1247:ASN:HA	1:D:1248:PRO:HD3	1.83	0.44
1:D:1519:VAL:HG13	1:D:1530:LEU:HD23	1.98	0.44
1:D:1605:LYS:H	1:D:1658:LYS:HE2	1.82	0.44
1:D:1634:ARG:NH1	1:D:1639:ALA:N	2.65	0.44
1:E:515:ALA:HA	1:E:516:PRO:HD3	1.84	0.44
1:F:336:TRP:CH2	1:F:360:LEU:HD21	2.52	0.44
1:F:412:ASP:H	1:F:1025:VAL:CG2	2.31	0.44
1:F:2879:LEU:HD13	1:F:3009:VAL:HG11	1.98	0.44
1:A:222:LEU:HD13	1:A:248:ILE:HD12	1.99	0.44
1:A:475:LEU:HA	1:A:475:LEU:HD23	1.79	0.44
1:A:550:LYS:HD3	1:A:577:GLU:OE2	2.17	0.44
1:A:1350:TYR:CD1	1:A:1703:ILE:HD11	2.53	0.44
1:A:1537:LEU:HD13	1:A:1541:GLN:HB2	2.00	0.44
1:A:1684:ASP:HA	1:A:1687:PHE:HD2	1.82	0.44
1:A:2234:PRO:HB2	1:A:2287:LEU:HD13	1.98	0.44
1:A:2252:VAL:HG22	1:A:2255:ARG:HH21	1.82	0.44
1:A:2735:HIS:O	1:F:2737:VAL:N	2.51	0.44
1:A:2845:PHE:CD2	1:A:2860:ALA:HA	2.52	0.44
1:B:782:ARG:HH11	1:B:857:VAL:HG22	1.83	0.44
1:B:1350:TYR:CD1	1:B:1703:ILE:HD11	2.53	0.44
1:B:2014:SER:H	1:C:2591:ARG:HH12	1.65	0.44
1:C:50:GLY:O	1:C:53:SER:OG	2.36	0.44
1:C:2252:VAL:HG22	1:C:2255:ARG:HH21	1.82	0.44
1:C:3019:ASP:CG	1:C:3020:PRO:HD2	2.43	0.44
1:D:1285:LYS:HB3	1:D:1286:PRO:HD2	1.99	0.44
1:D:1350:TYR:CD1	1:D:1703:ILE:HD11	2.53	0.44
1:D:1483:LYS:O	1:D:1487:ILE:HG23	2.17	0.44
1:D:1582:HIS:HA	1:D:1674:ALA:O	2.18	0.44
1:E:695:ILE:HG22	1:E:697:GLU:HG3	2.00	0.44
1:E:782:ARG:NH1	1:E:857:VAL:HG22	2.33	0.44
1:E:1581:PHE:HB2	1:E:1586:LEU:HD22	1.99	0.44
1:E:1650:ASP:C	1:E:1652:TRP:H	2.26	0.44
1:E:2710:LEU:O	1:E:2713:VAL:HG22	2.18	0.44
1:F:1171:PRO:HA	1:F:1191:ARG:HG2	1.99	0.44
1:F:1268:GLY:HA2	1:F:1271:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1650:ASP:C	1:F:1652:TRP:H	2.26	0.44
1:F:2209:LEU:O	1:F:2213:VAL:HG23	2.18	0.44
1:F:2252:VAL:HG22	1:F:2255:ARG:HH21	1.82	0.44
1:F:2710:LEU:O	1:F:2713:VAL:HG22	2.18	0.44
1:F:3044:ALA:HB1	1:F:3050:PRO:HB3	2.00	0.44
1:A:344:HIS:CD2	1:A:373:ILE:HG13	2.53	0.44
1:A:516:PRO:HA	1:A:962:MET:SD	2.58	0.44
1:A:782:ARG:HH11	1:A:857:VAL:HG22	1.83	0.44
1:A:857:VAL:HG13	1:A:859:PHE:H	1.83	0.44
1:A:2334:HIS:CD2	1:A:2391:LYS:HG3	2.50	0.44
1:B:210:VAL:HG22	1:B:287:PHE:HD1	1.82	0.44
1:B:222:LEU:HD13	1:B:248:ILE:HD12	1.99	0.44
1:B:763:SER:HB3	1:B:766:ASP:HB2	1.99	0.44
1:C:2557:LEU:CG	1:D:2702:GLY:HA3	2.46	0.44
1:C:2610:ARG:NH1	1:C:2700:LEU:HD11	2.25	0.44
1:D:970:ILE:HG23	1:D:992:THR:HG21	2.00	0.44
1:D:1503:ILE:HB	1:D:1542:TYR:HB2	2.00	0.44
1:E:365:ALA:O	1:E:369:ARG:N	2.42	0.44
1:E:381:ARG:O	1:E:384:GLN:HG2	2.17	0.44
1:E:2209:LEU:O	1:E:2213:VAL:HG23	2.18	0.44
1:E:2471:PRO:HA	1:E:2625:ILE:HA	2.00	0.44
1:F:351:ILE:HB	1:F:375:ILE:HG12	1.99	0.44
1:F:516:PRO:HA	1:F:962:MET:SD	2.58	0.44
1:F:746:TYR:HB2	1:F:833:ALA:HB1	1.99	0.44
1:F:1488:VAL:HB	1:F:1579:VAL:HG22	1.99	0.44
1:F:1503:ILE:HB	1:F:1542:TYR:HB2	2.00	0.44
1:A:657:THR:HB	1:A:662:LYS:HE3	2.00	0.43
1:A:874:ASP:OD2	1:A:877:TRP:CD1	2.71	0.43
1:A:1488:VAL:HB	1:A:1579:VAL:HG22	1.99	0.43
1:A:1582:HIS:HA	1:A:1674:ALA:O	2.18	0.43
1:A:1634:ARG:NH1	1:A:1639:ALA:N	2.65	0.43
1:A:2014:SER:H	1:B:2591:ARG:HH12	1.65	0.43
1:A:2014:SER:N	1:B:2591:ARG:NH1	2.66	0.43
1:A:2014:SER:N	1:B:2591:ARG:HH12	2.16	0.43
1:A:2092:THR:O	1:A:2092:THR:CG2	2.64	0.43
1:A:2700:LEU:HD22	1:F:2697:HIS:CD2	2.43	0.43
1:B:515:ALA:HA	1:B:516:PRO:HD3	1.84	0.43
1:B:585:HIS:CB	1:B:694:ASP:HB2	2.47	0.43
1:B:1503:ILE:HB	1:B:1542:TYR:HB2	2.00	0.43
1:B:1733:ASN:H	1:B:1737:ASP:HB2	1.83	0.43
1:C:344:HIS:CD2	1:C:373:ILE:HG13	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:516:PRO:HA	1:C:962:MET:SD	2.58	0.43
1:C:583:GLY:HA2	1:C:892:ILE:HD13	2.00	0.43
1:C:695:ILE:HG22	1:C:697:GLU:HG3	2.00	0.43
1:C:3044:ALA:HB1	1:C:3050:PRO:HB3	2.00	0.43
1:D:34:LEU:O	1:D:38:LEU:HG	2.18	0.43
1:D:782:ARG:HH11	1:D:857:VAL:HG22	1.83	0.43
1:D:1723:GLU:O	1:D:1725:SER:N	2.51	0.43
1:D:2297:ARG:HH22	1:D:2391:LYS:HZ3	1.66	0.43
1:D:3044:ALA:HB1	1:D:3050:PRO:HB3	2.00	0.43
1:E:88:SER:HB3	1:E:314:THR:OG1	2.18	0.43
1:E:1072:TRP:HE1	1:E:1077:VAL:HG22	1.80	0.43
1:E:2300:PHE:CZ	1:E:2398:LEU:HB3	2.52	0.43
1:E:2580:PHE:HE1	1:E:2603:ARG:HH21	1.66	0.43
1:E:3019:ASP:CG	1:E:3020:PRO:HD2	2.43	0.43
1:F:344:HIS:CD2	1:F:373:ILE:HG13	2.53	0.43
1:F:2361:VAL:HG21	1:F:2401:ILE:HD11	1.98	0.43
1:A:210:VAL:HG22	1:A:287:PHE:HD1	1.83	0.43
1:A:393:VAL:HG12	1:A:394:PRO:N	2.32	0.43
1:A:1519:VAL:HG13	1:A:1530:LEU:HD23	1.99	0.43
1:A:2591:ARG:HH12	1:C:2014:SER:H	1.66	0.43
1:B:874:ASP:OD2	1:B:877:TRP:CD1	2.72	0.43
1:B:2710:LEU:O	1:B:2713:VAL:HG22	2.18	0.43
1:C:34:LEU:O	1:C:38:LEU:HG	2.18	0.43
1:C:210:VAL:HG22	1:C:287:PHE:HD1	1.82	0.43
1:C:857:VAL:HG13	1:C:859:PHE:H	1.83	0.43
1:C:2686:MET:HE3	1:C:2686:MET:HB2	1.94	0.43
1:C:2847:ASP:CG	1:C:2857:GLY:HA2	2.43	0.43
1:D:276:LYS:HB3	1:D:587:TRP:CH2	2.53	0.43
1:D:516:PRO:HA	1:D:962:MET:SD	2.58	0.43
1:D:2209:LEU:O	1:D:2213:VAL:HG23	2.18	0.43
1:E:1352:PHE:HA	1:E:1353:PRO:HD3	1.72	0.43
1:E:1462:ALA:HB2	1:E:1468:TYR:HE1	1.81	0.43
1:E:1582:HIS:HA	1:E:1674:ALA:O	2.18	0.43
1:E:2252:VAL:HG22	1:E:2255:ARG:HH21	1.83	0.43
1:E:2541:ARG:O	1:E:2621:VAL:HG13	2.18	0.43
1:E:2836:LEU:HD23	1:E:2836:LEU:HA	1.87	0.43
1:F:856:PRO:HG2	1:F:874:ASP:HB2	2.00	0.43
1:A:34:LEU:O	1:A:38:LEU:HG	2.19	0.43
1:A:2096:VAL:HG13	1:A:2097:ALA:H	1.80	0.43
1:A:2847:ASP:CG	1:A:2857:GLY:HA2	2.43	0.43
1:B:583:GLY:HA2	1:B:892:ILE:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1605:LYS:H	1:B:1658:LYS:HE2	1.82	0.43
1:B:2032:VAL:HG11	1:D:2032:VAL:HG11	2.00	0.43
1:B:2296:ASN:ND2	1:B:2395:THR:HG21	2.34	0.43
1:B:3019:ASP:CG	1:B:3020:PRO:HD2	2.43	0.43
1:C:874:ASP:OD2	1:C:877:TRP:CD1	2.72	0.43
1:C:1247:ASN:HA	1:C:1248:PRO:HD3	1.83	0.43
1:C:1285:LYS:HB3	1:C:1286:PRO:HD2	1.99	0.43
1:C:1650:ASP:C	1:C:1652:TRP:H	2.26	0.43
1:D:641:ASP:OD1	1:D:641:ASP:N	2.47	0.43
1:D:664:LEU:HB3	1:D:701:ALA:HB1	1.99	0.43
1:D:2296:ASN:HB3	1:D:2299:MET:SD	2.57	0.43
1:D:2591:ARG:NH1	1:F:2014:SER:N	2.66	0.43
1:E:647:THR:N	2:E:4000:FMN:O3P	2.51	0.43
1:E:746:TYR:HB2	1:E:833:ALA:HB1	1.99	0.43
1:E:1537:LEU:HD13	1:E:1541:GLN:HB2	2.00	0.43
1:E:2092:THR:O	1:E:2092:THR:CG2	2.64	0.43
1:E:3065:PRO:O	1:E:3069:GLN:N	2.43	0.43
1:F:2334:HIS:CD2	1:F:2391:LYS:HG3	2.50	0.43
1:F:2580:PHE:HE1	1:F:2603:ARG:HH21	1.66	0.43
1:A:575:HIS:CD2	1:A:644:LEU:HD22	2.49	0.43
1:A:2710:LEU:O	1:A:2713:VAL:HG22	2.18	0.43
1:A:2737:VAL:N	1:F:2735:HIS:O	2.51	0.43
1:A:3044:ALA:HB1	1:A:3050:PRO:HB3	2.00	0.43
1:B:276:LYS:HB3	1:B:587:TRP:CH2	2.53	0.43
1:B:341:THR:HG23	1:B:344:HIS:ND1	2.34	0.43
1:B:658:SER:HB2	1:B:661:VAL:HG23	2.01	0.43
1:B:2735:HIS:O	1:E:2737:VAL:N	2.51	0.43
1:C:365:ALA:O	1:C:369:ARG:N	2.42	0.43
1:C:2209:LEU:O	1:C:2213:VAL:HG23	2.17	0.43
1:C:2512:TRP:O	1:C:2520:LEU:HD12	2.19	0.43
1:D:336:TRP:CH2	1:D:360:LEU:HD21	2.52	0.43
1:D:580:ARG:HD3	1:D:896:ALA:HB3	2.01	0.43
1:D:657:THR:HB	1:D:662:LYS:HE3	2.00	0.43
1:D:1163:ASP:HA	1:D:1168:ARG:HA	2.01	0.43
1:D:1733:ASN:H	1:D:1737:ASP:HB2	1.83	0.43
1:E:344:HIS:CD2	1:E:373:ILE:HG13	2.53	0.43
1:E:856:PRO:HG2	1:E:874:ASP:HB2	2.00	0.43
1:E:1503:ILE:HB	1:E:1542:TYR:HB2	2.00	0.43
1:E:2115:HIS:HA	1:E:2118:LEU:CG	2.49	0.43
1:E:3044:ALA:HB1	1:E:3050:PRO:HB3	2.00	0.43
1:F:276:LYS:HB3	1:F:587:TRP:CH2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:393:VAL:HG12	1:F:394:PRO:N	2.32	0.43
1:F:1582:HIS:HA	1:F:1674:ALA:O	2.18	0.43
1:F:1733:ASN:H	1:F:1737:ASP:HB2	1.83	0.43
1:A:1268:GLY:HA2	1:A:1271:LEU:HD12	1.99	0.43
1:B:88:SER:HB3	1:B:314:THR:OG1	2.18	0.43
1:B:647:THR:N	2:B:4000:FMN:O3P	2.51	0.43
1:B:695:ILE:HG22	1:B:697:GLU:HG3	2.01	0.43
1:B:1268:GLY:HA2	1:B:1271:LEU:HD12	1.99	0.43
1:B:1582:HIS:HA	1:B:1674:ALA:O	2.18	0.43
1:B:2252:VAL:HG22	1:B:2255:ARG:HH21	1.82	0.43
1:B:2471:PRO:HA	1:B:2625:ILE:HA	2.00	0.43
1:C:1117:ALA:HA	1:C:1120:GLU:HB2	2.01	0.43
1:C:1537:LEU:HD13	1:C:1541:GLN:HB2	2.00	0.43
1:C:1582:HIS:HA	1:C:1674:ALA:O	2.18	0.43
1:C:2296:ASN:HB3	1:C:2299:MET:SD	2.57	0.43
1:C:2891:LYS:HG3	1:C:2924:ILE:HD13	1.98	0.43
1:D:340:ILE:HD11	1:D:351:ILE:HD13	2.01	0.43
1:D:412:ASP:H	1:D:1025:VAL:CG2	2.31	0.43
1:D:658:SER:HB2	1:D:661:VAL:HG23	2.00	0.43
1:D:857:VAL:HG13	1:D:859:PHE:H	1.83	0.43
1:D:1317:GLY:O	1:D:1324:VAL:HG12	2.19	0.43
1:D:1705:VAL:O	1:D:1735:GLU:HB2	2.18	0.43
1:D:2958:ASN:HD22	1:D:2976:TRP:HE1	1.65	0.43
1:D:3019:ASP:CG	1:D:3020:PRO:HD2	2.43	0.43
1:E:340:ILE:HD11	1:E:351:ILE:HD13	2.01	0.43
1:E:580:ARG:HD3	1:E:896:ALA:HB3	2.01	0.43
1:E:970:ILE:HG23	1:E:992:THR:HG21	2.00	0.43
1:E:1317:GLY:O	1:E:1324:VAL:HG12	2.19	0.43
1:E:1457:GLU:OE2	1:E:1614:TYR:OH	2.30	0.43
1:E:1612:GLY:N	1:E:1623:PHE:O	2.48	0.43
1:F:784:GLU:CD	1:F:816:LEU:HD21	2.44	0.43
1:F:1537:LEU:HD13	1:F:1541:GLN:HB2	2.00	0.43
1:F:2092:THR:O	1:F:2092:THR:CG2	2.64	0.43
1:F:2891:LYS:HZ2	1:F:2903:GLU:HG2	1.83	0.43
1:A:695:ILE:HG22	1:A:697:GLU:HG3	2.00	0.43
1:A:763:SER:HB3	1:A:766:ASP:HB2	1.99	0.43
1:A:1072:TRP:HE1	1:A:1077:VAL:HG22	1.80	0.43
1:A:1399:ASN:HA	1:A:1400:PRO:HD3	1.86	0.43
1:A:1733:ASN:H	1:A:1737:ASP:HB2	1.83	0.43
1:A:2591:ARG:HH12	1:C:2014:SER:N	2.16	0.43
1:B:307:ILE:HG22	1:B:311:TRP:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:516:PRO:HA	1:B:962:MET:SD	2.58	0.43
1:B:2462:VAL:HG13	1:B:2835:VAL:HG13	2.00	0.43
1:B:2541:ARG:O	1:B:2621:VAL:HG13	2.18	0.43
1:B:2557:LEU:CG	1:E:2702:GLY:HA3	2.46	0.43
1:B:3065:PRO:O	1:B:3069:GLN:N	2.42	0.43
1:C:658:SER:HB2	1:C:661:VAL:HG23	2.01	0.43
1:C:782:ARG:HH11	1:C:857:VAL:HG22	1.83	0.43
1:C:2580:PHE:HE1	1:C:2603:ARG:HH21	1.66	0.43
1:D:81:LEU:HD23	1:D:81:LEU:HA	1.88	0.43
1:D:212:ASN:C	1:D:244:ARG:HB3	2.44	0.43
1:D:784:GLU:CD	1:D:816:LEU:HD21	2.44	0.43
1:D:1504:ARG:HA	1:D:1540:SER:O	2.19	0.43
1:D:2903:GLU:OE2	1:D:2995:THR:OG1	2.36	0.43
1:E:34:LEU:O	1:E:38:LEU:HG	2.18	0.43
1:E:276:LYS:HB3	1:E:587:TRP:CH2	2.53	0.43
1:E:1163:ASP:HA	1:E:1168:ARG:HA	2.01	0.43
1:E:1733:ASN:H	1:E:1737:ASP:HB2	1.83	0.43
1:F:647:THR:N	2:F:4000:FMN:O3P	2.51	0.43
1:F:2297:ARG:HH12	1:F:2391:LYS:NZ	2.17	0.43
1:F:2512:TRP:O	1:F:2520:LEU:HD12	2.19	0.43
1:F:2706:PRO:O	1:F:2709:ILE:HG12	2.19	0.43
1:A:276:LYS:HB3	1:A:587:TRP:CH2	2.53	0.43
1:A:658:SER:HB2	1:A:661:VAL:HG23	2.00	0.43
1:A:780:ARG:NH1	1:A:817:GLU:OE2	2.52	0.43
1:A:3019:ASP:CG	1:A:3020:PRO:HD2	2.43	0.43
1:B:34:LEU:O	1:B:38:LEU:HG	2.19	0.43
1:B:163:LEU:HD13	1:B:181:LEU:HD23	2.00	0.43
1:B:212:ASN:C	1:B:244:ARG:HB3	2.44	0.43
1:B:2669:LEU:HD23	1:B:2831:MET:HE1	2.01	0.43
1:B:2737:VAL:N	1:E:2735:HIS:O	2.51	0.43
1:B:2891:LYS:HZ2	1:B:2903:GLU:CG	2.32	0.43
1:C:340:ILE:HD11	1:C:351:ILE:HD13	2.01	0.43
1:C:647:THR:N	2:C:4000:FMN:O3P	2.51	0.43
1:C:1163:ASP:HA	1:C:1168:ARG:HA	2.01	0.43
1:C:2032:VAL:HG11	1:F:2032:VAL:HG11	2.01	0.43
1:C:2674:HIS:HA	1:C:2675:PRO:HD2	1.88	0.43
1:C:2958:ASN:HD22	1:C:2976:TRP:HE1	1.65	0.43
1:D:475:LEU:HA	1:D:475:LEU:HD23	1.79	0.43
1:D:647:THR:N	2:D:4000:FMN:O3P	2.51	0.43
1:D:1650:ASP:C	1:D:1652:TRP:H	2.26	0.43
1:D:2115:HIS:HA	1:D:2118:LEU:CG	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2591:ARG:HH12	1:F:2014:SER:N	2.16	0.43
1:E:550:LYS:HD3	1:E:577:GLU:OE2	2.17	0.43
1:E:2014:SER:N	1:F:2591:ARG:NH1	2.66	0.43
1:F:210:VAL:HG22	1:F:287:PHE:HD1	1.82	0.43
1:F:575:HIS:CD2	1:F:644:LEU:HD22	2.48	0.43
1:F:2471:PRO:HA	1:F:2625:ILE:HA	2.00	0.43
1:F:2810:GLY:HA2	1:F:2896:THR:HG22	2.01	0.43
1:A:511:ARG:CB	1:A:540:ASN:HB2	2.46	0.43
1:A:2209:LEU:O	1:A:2213:VAL:HG23	2.18	0.43
1:A:2297:ARG:HH12	1:A:2391:LYS:NZ	2.17	0.43
1:B:511:ARG:CB	1:B:540:ASN:HB2	2.46	0.43
1:B:784:GLU:CD	1:B:816:LEU:HD21	2.44	0.43
1:B:857:VAL:HG13	1:B:859:PHE:H	1.83	0.43
1:B:1133:VAL:N	1:B:1193:ALA:O	2.48	0.43
1:B:1504:ARG:HA	1:B:1540:SER:O	2.19	0.43
1:B:1619:VAL:HA	1:B:1620:PRO:HD2	1.80	0.43
1:B:1650:ASP:C	1:B:1652:TRP:H	2.26	0.43
1:B:3080:ARG:CG	1:B:3080:ARG:NH1	2.72	0.43
1:C:341:THR:HG23	1:C:344:HIS:ND1	2.34	0.43
1:C:1504:ARG:HA	1:C:1540:SER:O	2.19	0.43
1:C:1672:GLN:HE21	1:C:1672:GLN:HB3	1.58	0.43
1:C:2115:HIS:HA	1:C:2118:LEU:CG	2.49	0.43
1:C:2137:GLU:O	1:C:2163:THR:N	2.30	0.43
1:C:2334:HIS:CD2	1:C:2391:LYS:HG3	2.50	0.43
1:C:2444:PRO:HB2	1:C:2988:PRO:HB3	2.01	0.43
1:C:2706:PRO:O	1:C:2709:ILE:HG12	2.19	0.43
1:D:683:GLY:CA	1:D:700:ASN:HB2	2.44	0.43
1:D:874:ASP:OD2	1:D:877:TRP:CD1	2.72	0.43
1:D:2710:LEU:O	1:D:2713:VAL:HG22	2.18	0.43
1:E:784:GLU:CD	1:E:816:LEU:HD21	2.44	0.43
1:E:1660:LEU:HD23	1:E:1660:LEU:HA	1.85	0.43
1:E:2296:ASN:ND2	1:E:2395:THR:HG21	2.34	0.43
1:E:2444:PRO:HB2	1:E:2988:PRO:HB3	2.01	0.43
1:E:2452:ASP:HA	1:E:3017:ALA:HA	1.99	0.43
1:E:2847:ASP:CG	1:E:2857:GLY:HA2	2.43	0.43
1:F:307:ILE:HG22	1:F:311:TRP:CE2	2.54	0.43
1:F:583:GLY:HA2	1:F:892:ILE:HD13	2.00	0.43
1:F:1504:ARG:HA	1:F:1540:SER:O	2.19	0.43
1:F:1705:VAL:O	1:F:1735:GLU:HB2	2.18	0.43
1:F:2462:VAL:HG13	1:F:2835:VAL:HG13	2.00	0.43
1:F:2903:GLU:OE2	1:F:2995:THR:OG1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2989:LEU:HD12	1:F:2989:LEU:HA	1.77	0.43
1:F:3019:ASP:CG	1:F:3020:PRO:HD2	2.43	0.43
1:A:580:ARG:HD3	1:A:896:ALA:HB3	2.01	0.43
1:A:585:HIS:HD2	1:A:586:SER:H	1.62	0.43
1:A:1705:VAL:O	1:A:1735:GLU:HB2	2.18	0.43
1:A:2115:HIS:HA	1:A:2118:LEU:CG	2.49	0.43
1:A:2669:LEU:HD23	1:A:2831:MET:HE1	2.01	0.43
1:A:2706:PRO:O	1:A:2709:ILE:HG12	2.19	0.43
1:B:1163:ASP:HA	1:B:1168:ARG:HA	2.01	0.43
1:B:1537:LEU:HD13	1:B:1541:GLN:HB2	2.00	0.43
1:B:2115:HIS:HA	1:B:2118:LEU:CG	2.48	0.43
1:B:2512:TRP:O	1:B:2520:LEU:HD12	2.19	0.43
1:B:2695:MET:HG3	1:B:2696:TYR:N	2.34	0.43
1:B:3044:ALA:HB1	1:B:3050:PRO:HB3	2.00	0.43
1:C:212:ASN:C	1:C:244:ARG:HB3	2.44	0.43
1:C:412:ASP:H	1:C:1025:VAL:CG2	2.31	0.43
1:C:2092:THR:O	1:C:2092:THR:CG2	2.64	0.43
1:D:70:SER:HG	1:D:142:ARG:HH22	1.62	0.43
1:D:344:HIS:CD2	1:D:373:ILE:HG13	2.53	0.43
1:D:1117:ALA:HA	1:D:1120:GLU:HB2	2.01	0.43
1:D:2145:SER:O	1:D:2148:SER:OG	2.34	0.43
1:D:2296:ASN:ND2	1:D:2395:THR:HG21	2.34	0.43
1:D:2706:PRO:O	1:D:2709:ILE:HG12	2.19	0.43
1:D:2810:GLY:HA2	1:D:2896:THR:HG22	2.01	0.43
1:E:42:GLU:HA	1:E:43:PRO:HD3	1.91	0.43
1:E:516:PRO:HA	1:E:962:MET:SD	2.58	0.43
1:E:857:VAL:HG13	1:E:859:PHE:H	1.83	0.43
1:E:1705:VAL:O	1:E:1735:GLU:HB2	2.18	0.43
1:E:2557:LEU:HB3	1:E:2613:ARG:HB2	2.01	0.43
1:E:2706:PRO:O	1:E:2709:ILE:HG12	2.19	0.43
1:F:70:SER:HG	1:F:142:ARG:HH22	1.65	0.43
1:F:658:SER:HB2	1:F:661:VAL:HG23	2.00	0.43
1:F:857:VAL:HG13	1:F:859:PHE:H	1.83	0.43
1:F:1612:GLY:N	1:F:1623:PHE:O	2.48	0.43
1:A:856:PRO:HG2	1:A:874:ASP:HB2	2.00	0.43
1:A:970:ILE:HG23	1:A:992:THR:HG21	2.00	0.43
1:A:2541:ARG:O	1:A:2621:VAL:HG13	2.18	0.43
1:A:2591:ARG:NH1	1:C:2014:SER:N	2.66	0.43
1:B:344:HIS:CD2	1:B:373:ILE:HG13	2.53	0.43
1:B:580:ARG:HD3	1:B:896:ALA:HB3	2.01	0.43
1:B:2405:MET:HE2	1:B:2409:ALA:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2468:GLU:OE2	1:B:2478:ARG:NH2	2.48	0.43
1:B:2558:LEU:HD11	1:E:2610:ARG:HD2	2.01	0.43
1:D:88:SER:HB3	1:D:314:THR:OG1	2.18	0.43
1:D:341:THR:HG23	1:D:344:HIS:ND1	2.34	0.43
1:D:931:VAL:HG23	1:D:934:LEU:N	2.21	0.43
1:D:2014:SER:N	1:E:2591:ARG:HH12	2.16	0.43
1:D:2252:VAL:HG22	1:D:2255:ARG:HH21	1.82	0.43
1:D:2541:ARG:O	1:D:2621:VAL:HG13	2.18	0.43
1:D:2786:ASP:OD2	1:D:2789:MET:HG2	2.19	0.43
1:E:53:SER:HA	1:E:359:ILE:HG13	2.01	0.43
1:E:585:HIS:HD2	1:E:586:SER:H	1.62	0.43
1:E:1084:THR:CG2	1:E:1274:ALA:HA	2.48	0.43
1:E:2014:SER:N	1:F:2591:ARG:HH12	2.16	0.43
1:E:2246:ALA:N	1:E:2255:ARG:HH12	2.15	0.43
1:E:2552:ASP:OD1	1:E:2552:ASP:N	2.43	0.43
1:F:44:TYR:O	1:F:153:VAL:N	2.44	0.43
1:F:436:THR:OG1	1:F:437:PRO:HD3	2.19	0.43
1:F:695:ILE:HG22	1:F:697:GLU:HG3	2.00	0.43
1:F:1021:LEU:HB3	1:F:1034:GLU:HG2	2.01	0.43
1:F:2695:MET:HG3	1:F:2696:TYR:N	2.34	0.43
1:A:44:TYR:O	1:A:153:VAL:N	2.44	0.42
1:A:647:THR:N	2:A:4000:FMN:O3P	2.51	0.42
1:A:2244:ARG:HG2	1:A:2245:VAL:N	2.34	0.42
1:A:2428:PRO:O	1:A:2428:PRO:CG	2.67	0.42
1:A:2580:PHE:HE1	1:A:2603:ARG:HH21	1.66	0.42
1:A:2808:ARG:HH21	1:A:2901:PRO:HD3	1.84	0.42
1:B:1317:GLY:O	1:B:1324:VAL:HG12	2.19	0.42
1:B:2846:ALA:O	1:B:2859:GLY:HA3	2.19	0.42
1:C:45:ALA:O	1:C:351:ILE:HA	2.19	0.42
1:C:78:GLU:HB2	1:C:176:VAL:HG21	2.01	0.42
1:C:276:LYS:HB3	1:C:587:TRP:CH2	2.53	0.42
1:C:307:ILE:HG22	1:C:311:TRP:CE2	2.54	0.42
1:C:657:THR:HB	1:C:662:LYS:HE3	2.00	0.42
1:C:709:LEU:HD21	1:C:872:ARG:NE	2.34	0.42
1:C:954:PRO:O	1:C:965:ASN:N	2.52	0.42
1:C:1705:VAL:O	1:C:1735:GLU:HB2	2.18	0.42
1:C:2737:VAL:N	1:D:2735:HIS:O	2.51	0.42
1:C:2786:ASP:OD2	1:C:2789:MET:HG2	2.19	0.42
1:C:2810:GLY:HA2	1:C:2896:THR:HG22	2.01	0.42
1:C:2903:GLU:OE2	1:C:2995:THR:OG1	2.36	0.42
1:D:583:GLY:HA2	1:D:892:ILE:HD13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:885:GLU:HG2	1:D:887:ASP:H	1.84	0.42
1:D:1093:PRO:HB3	1:D:1277:HIS:CE1	2.52	0.42
1:D:2297:ARG:HH12	1:D:2391:LYS:NZ	2.17	0.42
1:E:211:THR:HB	1:E:286:VAL:HB	2.01	0.42
1:E:307:ILE:HG22	1:E:311:TRP:CE2	2.54	0.42
1:E:1013:THR:CG2	1:E:1014:TRP:N	2.58	0.42
1:E:1723:GLU:O	1:E:1725:SER:N	2.51	0.42
1:E:2405:MET:HE2	1:E:2409:ALA:HB2	2.01	0.42
1:E:2512:TRP:O	1:E:2520:LEU:HD12	2.19	0.42
1:F:34:LEU:O	1:F:38:LEU:HG	2.19	0.42
1:F:212:ASN:C	1:F:244:ARG:HB3	2.44	0.42
1:F:475:LEU:HD23	1:F:475:LEU:HA	1.79	0.42
1:F:580:ARG:HD3	1:F:896:ALA:HB3	2.01	0.42
1:F:664:LEU:HB3	1:F:701:ALA:HB1	1.99	0.42
1:F:874:ASP:OD2	1:F:877:TRP:CD1	2.71	0.42
1:F:1163:ASP:HA	1:F:1168:ARG:HA	2.01	0.42
1:F:2669:LEU:HD23	1:F:2831:MET:HE1	2.01	0.42
1:F:2889:ILE:HB	1:F:2924:ILE:HG12	2.01	0.42
1:A:50:GLY:O	1:A:53:SER:OG	2.36	0.42
1:A:88:SER:HB3	1:A:314:THR:OG1	2.18	0.42
1:A:203:ASP:OD2	1:C:1087:PHE:CZ	2.72	0.42
1:A:1087:PHE:CZ	1:B:203:ASP:OD2	2.73	0.42
1:A:2096:VAL:CG1	1:A:2097:ALA:N	2.82	0.42
1:A:2753:LYS:HD3	1:A:2753:LYS:HA	1.83	0.42
1:A:2810:GLY:HA2	1:A:2896:THR:HG22	2.01	0.42
1:B:709:LEU:HD21	1:B:872:ARG:NE	2.34	0.42
1:B:780:ARG:NH1	1:B:817:GLU:OE2	2.52	0.42
1:B:1662:ARG:HG3	1:B:1663:LYS:N	2.34	0.42
1:B:2706:PRO:O	1:B:2709:ILE:HG12	2.19	0.42
1:C:70:SER:HG	1:C:142:ARG:NH2	2.15	0.42
1:C:163:LEU:HD13	1:C:181:LEU:HD23	2.00	0.42
1:C:544:ILE:O	1:C:546:HIS:N	2.41	0.42
1:C:613:GLY:HA2	2:C:4000:FMN:O5'	2.19	0.42
1:C:780:ARG:NH1	1:C:817:GLU:OE2	2.52	0.42
1:C:2296:ASN:ND2	1:C:2395:THR:HG21	2.34	0.42
1:C:2297:ARG:HH22	1:C:2391:LYS:HZ3	1.66	0.42
1:C:2297:ARG:HH12	1:C:2391:LYS:NZ	2.17	0.42
1:C:2735:HIS:O	1:D:2737:VAL:N	2.51	0.42
1:C:2889:ILE:HB	1:C:2924:ILE:HG12	2.01	0.42
1:D:45:ALA:O	1:D:351:ILE:HA	2.20	0.42
1:D:307:ILE:HG22	1:D:311:TRP:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:695:ILE:HG22	1:D:697:GLU:HG3	2.00	0.42
1:D:780:ARG:NH1	1:D:817:GLU:OE2	2.52	0.42
1:D:856:PRO:HG2	1:D:874:ASP:HB2	2.00	0.42
1:D:2405:MET:HE2	1:D:2409:ALA:HB2	2.01	0.42
1:E:657:THR:HB	1:E:662:LYS:HE3	2.00	0.42
1:E:780:ARG:NH1	1:E:817:GLU:OE2	2.52	0.42
1:E:931:VAL:HG13	1:E:934:LEU:N	2.21	0.42
1:E:2462:VAL:HG13	1:E:2835:VAL:HG13	2.00	0.42
1:E:2786:ASP:OD2	1:E:2789:MET:HG2	2.19	0.42
1:E:2903:GLU:OE2	1:E:2995:THR:OG1	2.36	0.42
1:F:1352:PHE:HA	1:F:1353:PRO:HD3	1.72	0.42
1:F:2428:PRO:O	1:F:2428:PRO:CG	2.67	0.42
1:A:709:LEU:HD21	1:A:872:ARG:NE	2.34	0.42
1:A:1504:ARG:HA	1:A:1540:SER:O	2.19	0.42
1:B:45:ALA:O	1:B:351:ILE:HA	2.20	0.42
1:B:53:SER:HA	1:B:359:ILE:HG13	2.01	0.42
1:B:1634:ARG:NH1	1:B:1639:ALA:H	2.11	0.42
1:B:2297:ARG:HH12	1:B:2391:LYS:NZ	2.17	0.42
1:B:2610:ARG:HD2	1:E:2558:LEU:HD11	2.01	0.42
1:B:2810:GLY:HA2	1:B:2896:THR:HG22	2.01	0.42
1:C:211:THR:HB	1:C:286:VAL:HB	2.01	0.42
1:C:393:VAL:O	1:C:395:GLU:N	2.52	0.42
1:C:436:THR:OG1	1:C:437:PRO:HD3	2.19	0.42
1:C:2244:ARG:HG2	1:C:2245:VAL:N	2.34	0.42
1:C:2541:ARG:O	1:C:2621:VAL:HG13	2.18	0.42
1:C:2753:LYS:HZ3	1:D:2752:ASP:CG	2.22	0.42
1:D:203:ASP:OD2	1:F:1087:PHE:CZ	2.72	0.42
1:D:1662:ARG:HG3	1:D:1663:LYS:N	2.34	0.42
1:D:2444:PRO:HB2	1:D:2988:PRO:HB3	2.01	0.42
1:E:583:GLY:HA2	1:E:892:ILE:HD13	2.00	0.42
1:E:874:ASP:OD2	1:E:877:TRP:CD1	2.72	0.42
1:E:1662:ARG:HG3	1:E:1663:LYS:N	2.34	0.42
1:F:709:LEU:HD21	1:F:872:ARG:NE	2.34	0.42
1:F:780:ARG:NH1	1:F:817:GLU:OE2	2.52	0.42
1:F:1117:ALA:HA	1:F:1120:GLU:HB2	2.01	0.42
1:F:2786:ASP:OD2	1:F:2789:MET:HG2	2.19	0.42
1:A:336:TRP:HE3	1:A:339:GLU:OE2	2.03	0.42
1:A:816:LEU:HD23	1:A:816:LEU:HA	1.83	0.42
1:A:1280:THR:O	1:A:1288:PRO:HB3	2.20	0.42
1:A:1551:LEU:HD13	1:A:1551:LEU:HA	1.79	0.42
1:A:1650:ASP:C	1:A:1652:TRP:H	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2530:TYR:O	1:A:2533:ALA:N	2.52	0.42
1:A:2889:ILE:HG13	1:A:2922:LEU:HD13	2.02	0.42
1:A:2911:ALA:O	1:A:2916:ARG:HB2	2.20	0.42
1:B:664:LEU:HB3	1:B:701:ALA:HB1	1.99	0.42
1:B:970:ILE:HG23	1:B:992:THR:HG21	2.00	0.42
1:B:1084:THR:CG2	1:B:1274:ALA:HA	2.48	0.42
1:B:2557:LEU:HB3	1:B:2613:ARG:HB2	2.01	0.42
1:B:2957:PRO:HB3	1:B:2980:PRO:N	2.34	0.42
1:C:856:PRO:HG2	1:C:874:ASP:HB2	2.00	0.42
1:C:931:VAL:HG13	1:C:934:LEU:N	2.21	0.42
1:C:2141:VAL:HG22	1:C:2238:PHE:HD2	1.85	0.42
1:C:2669:LEU:HD23	1:C:2831:MET:HE1	2.01	0.42
1:C:2855:ALA:HA	1:C:2856:PRO:HD3	1.93	0.42
1:D:613:GLY:HA2	2:D:4000:FMN:O5'	2.19	0.42
1:D:1280:THR:O	1:D:1288:PRO:HB3	2.20	0.42
1:D:2141:VAL:HG22	1:D:2238:PHE:HD2	1.84	0.42
1:D:2244:ARG:HG2	1:D:2245:VAL:N	2.34	0.42
1:D:2652:ILE:HG22	1:D:3051:MET:HE1	2.01	0.42
1:D:2889:ILE:HB	1:D:2924:ILE:HG12	2.01	0.42
1:D:2891:LYS:HZ2	1:D:2903:GLU:HG2	1.83	0.42
1:D:2891:LYS:NZ	1:D:2903:GLU:HB3	2.35	0.42
1:D:2957:PRO:HB3	1:D:2980:PRO:N	2.34	0.42
1:E:50:GLY:O	1:E:53:SER:OG	2.36	0.42
1:E:658:SER:HB2	1:E:661:VAL:HG23	2.01	0.42
1:E:1504:ARG:HA	1:E:1540:SER:O	2.19	0.42
1:E:2686:MET:HE3	1:E:2686:MET:HB2	1.94	0.42
1:F:1133:VAL:N	1:F:1193:ALA:O	2.48	0.42
1:F:1317:GLY:O	1:F:1324:VAL:HG12	2.19	0.42
1:A:211:THR:HB	1:A:286:VAL:HB	2.02	0.42
1:A:2512:TRP:O	1:A:2520:LEU:HD12	2.19	0.42
1:A:2737:VAL:HG11	1:F:2715:PRO:HD2	2.02	0.42
1:A:2891:LYS:NZ	1:A:2903:GLU:HB3	2.35	0.42
1:A:2957:PRO:HB3	1:A:2980:PRO:N	2.34	0.42
1:B:336:TRP:HE3	1:B:339:GLU:OE2	2.03	0.42
1:B:475:LEU:HA	1:B:475:LEU:HD23	1.79	0.42
1:B:885:GLU:HG2	1:B:887:ASP:H	1.84	0.42
1:B:1280:THR:O	1:B:1288:PRO:HB3	2.20	0.42
1:B:2805:ASP:OD2	1:B:2807:ARG:HB2	2.20	0.42
1:C:1070:VAL:N	1:C:1152:PHE:O	2.51	0.42
1:C:1280:THR:O	1:C:1288:PRO:HB3	2.20	0.42
1:C:1702:GLU:CD	1:C:1711:VAL:HG22	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2846:ALA:O	1:C:2859:GLY:HA3	2.19	0.42
1:C:2891:LYS:HZ1	1:C:2904:THR:N	2.18	0.42
1:C:2957:PRO:HB3	1:C:2980:PRO:N	2.35	0.42
1:D:163:LEU:HD13	1:D:181:LEU:HD23	2.00	0.42
1:D:511:ARG:CB	1:D:540:ASN:HB2	2.46	0.42
1:D:1106:CYS:SG	1:D:1174:VAL:HG11	2.60	0.42
1:D:2428:PRO:O	1:D:2428:PRO:CG	2.68	0.42
1:D:2557:LEU:HB3	1:D:2613:ARG:HB2	2.01	0.42
1:D:2911:ALA:O	1:D:2916:ARG:HB2	2.19	0.42
1:E:45:ALA:O	1:E:351:ILE:HA	2.20	0.42
1:E:816:LEU:HD23	1:E:816:LEU:HA	1.82	0.42
1:E:1275:ALA:O	1:E:1279:VAL:HG23	2.20	0.42
1:E:2141:VAL:HG22	1:E:2238:PHE:HD2	1.85	0.42
1:E:2530:TYR:O	1:E:2533:ALA:N	2.52	0.42
1:F:107:LEU:HD13	1:F:113:VAL:HB	2.02	0.42
1:F:211:THR:HB	1:F:286:VAL:HB	2.01	0.42
1:F:340:ILE:HD11	1:F:351:ILE:HD13	2.00	0.42
1:F:479:LEU:HD21	1:F:485:ILE:HD11	2.02	0.42
1:F:1093:PRO:HB3	1:F:1277:HIS:CE1	2.52	0.42
1:F:1702:GLU:CD	1:F:1711:VAL:HG22	2.45	0.42
1:F:2055:VAL:HG22	1:F:2194:TRP:CD1	2.55	0.42
1:F:2115:HIS:HA	1:F:2118:LEU:CG	2.49	0.42
1:F:2557:LEU:HB3	1:F:2613:ARG:HB2	2.01	0.42
1:A:340:ILE:HD11	1:A:351:ILE:HD13	2.01	0.42
1:A:436:THR:OG1	1:A:437:PRO:HD3	2.19	0.42
1:A:438:THR:HA	1:A:880:HIS:CE1	2.51	0.42
1:A:559:SER:O	1:A:563:ILE:HG12	2.20	0.42
1:A:1093:PRO:HB3	1:A:1277:HIS:CE1	2.52	0.42
1:A:1163:ASP:HA	1:A:1168:ARG:HA	2.01	0.42
1:A:2444:PRO:HB2	1:A:2988:PRO:HB3	2.01	0.42
1:A:2620:THR:OG1	1:A:2791:ARG:NH2	2.52	0.42
1:A:2695:MET:HG3	1:A:2696:TYR:N	2.34	0.42
1:B:211:THR:HB	1:B:286:VAL:HB	2.01	0.42
1:B:340:ILE:HD11	1:B:351:ILE:HD13	2.01	0.42
1:B:479:LEU:HD21	1:B:485:ILE:HD11	2.02	0.42
1:B:613:GLY:HA2	2:B:4000:FMN:O5'	2.19	0.42
1:B:1275:ALA:O	1:B:1279:VAL:HG23	2.20	0.42
1:B:1656:LYS:N	1:B:1657:PRO:HD2	2.35	0.42
1:B:2449:GLU:O	1:B:2449:GLU:CG	2.68	0.42
1:B:2584:ASP:O	1:B:2586:GLU:N	2.53	0.42
1:B:2800:PHE:CZ	1:B:2812:LEU:HD13	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:81:LEU:HD23	1:C:81:LEU:HA	1.88	0.42
1:C:885:GLU:HG2	1:C:887:ASP:H	1.84	0.42
1:C:1317:GLY:O	1:C:1324:VAL:HG12	2.19	0.42
1:C:1656:LYS:N	1:C:1657:PRO:HD2	2.35	0.42
1:C:2055:VAL:HG22	1:C:2194:TRP:CD1	2.55	0.42
1:C:2428:PRO:O	1:C:2428:PRO:CG	2.67	0.42
1:C:2911:ALA:O	1:C:2916:ARG:HB2	2.19	0.42
1:D:668:THR:HG23	1:D:683:GLY:HA3	2.02	0.42
1:D:957:LEU:O	1:D:1034:GLU:HB2	2.20	0.42
1:D:1021:LEU:HB3	1:D:1034:GLU:HG2	2.01	0.42
1:D:2286:ARG:HD3	1:D:2331:SER:OG	2.20	0.42
1:D:2892:HIS:HA	1:D:2942:GLN:HE22	1.85	0.42
1:E:479:LEU:HD21	1:E:485:ILE:HD11	2.02	0.42
1:E:782:ARG:HH11	1:E:857:VAL:HG22	1.83	0.42
1:E:1008:VAL:O	1:E:1008:VAL:CG2	2.67	0.42
1:E:1117:ALA:HA	1:E:1120:GLU:HB2	2.01	0.42
1:E:1275:ALA:HB2	1:E:1311:PHE:CE2	2.55	0.42
1:E:2805:ASP:OD2	1:E:2807:ARG:HB2	2.20	0.42
1:E:2958:ASN:HD22	1:E:2976:TRP:HE1	1.65	0.42
1:F:50:GLY:O	1:F:53:SER:OG	2.36	0.42
1:F:53:SER:HA	1:F:359:ILE:HG13	2.01	0.42
1:F:2244:ARG:HG2	1:F:2245:VAL:N	2.34	0.42
1:F:2652:ILE:HG22	1:F:3051:MET:HE1	2.01	0.42
1:F:2808:ARG:HH21	1:F:2901:PRO:HD3	1.85	0.42
1:F:2911:ALA:O	1:F:2916:ARG:HB2	2.19	0.42
1:F:2957:PRO:HB3	1:F:2980:PRO:N	2.34	0.42
1:A:784:GLU:CD	1:A:816:LEU:HD21	2.44	0.42
1:A:970:ILE:O	1:A:974:THR:HG22	2.20	0.42
1:A:1021:LEU:HB3	1:A:1034:GLU:HG2	2.01	0.42
1:A:2055:VAL:HG22	1:A:2194:TRP:CD1	2.55	0.42
1:A:2557:LEU:HB3	1:A:2613:ARG:HB2	2.02	0.42
1:A:2557:LEU:CG	1:F:2702:GLY:HA3	2.45	0.42
1:A:2558:LEU:HD11	1:F:2610:ARG:HD2	2.01	0.42
1:B:1021:LEU:HB3	1:B:1034:GLU:HG2	2.01	0.42
1:B:1087:PHE:CZ	1:C:203:ASP:OD2	2.72	0.42
1:B:1106:CYS:SG	1:B:1174:VAL:HG11	2.60	0.42
1:B:1275:ALA:HB2	1:B:1311:PHE:CE2	2.55	0.42
1:B:2294:SER:HB3	1:B:2310:LYS:HB2	2.02	0.42
1:B:2652:ILE:HG22	1:B:3051:MET:HE1	2.01	0.42
1:B:2891:LYS:NZ	1:B:2903:GLU:HB3	2.35	0.42
1:B:2911:ALA:O	1:B:2916:ARG:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:479:LEU:HD21	1:C:485:ILE:HD11	2.02	0.42
1:C:784:GLU:CD	1:C:816:LEU:HD21	2.44	0.42
1:C:970:ILE:O	1:C:974:THR:HG22	2.20	0.42
1:C:2294:SER:HB3	1:C:2310:LYS:HB2	2.02	0.42
1:D:1120:GLU:HA	1:D:1125:VAL:CG2	2.50	0.42
1:D:1133:VAL:N	1:D:1193:ALA:O	2.48	0.42
1:D:1703:ILE:HG22	1:D:1704:GLY:H	1.85	0.42
1:D:2055:VAL:HG22	1:D:2194:TRP:CD1	2.55	0.42
1:D:2294:SER:HB3	1:D:2310:LYS:HB2	2.02	0.42
1:D:2958:ASN:HD22	1:D:2976:TRP:NE1	2.18	0.42
1:E:957:LEU:O	1:E:1034:GLU:HB2	2.20	0.42
1:E:1087:PHE:CZ	1:F:203:ASP:OD2	2.72	0.42
1:E:1133:VAL:O	1:E:1193:ALA:N	2.42	0.42
1:E:1280:THR:O	1:E:1288:PRO:HB3	2.20	0.42
1:E:2428:PRO:O	1:E:2428:PRO:CG	2.67	0.42
1:E:2620:THR:OG1	1:E:2791:ARG:NH2	2.53	0.42
1:F:559:SER:O	1:F:563:ILE:HG12	2.20	0.42
1:F:613:GLY:HA2	2:F:4000:FMN:O5'	2.19	0.42
1:F:782:ARG:HH11	1:F:857:VAL:HG22	1.83	0.42
1:F:1106:CYS:SG	1:F:1174:VAL:HG11	2.60	0.42
1:F:2096:VAL:CG1	1:F:2097:ALA:N	2.82	0.42
1:F:2300:PHE:HZ	1:F:2398:LEU:HB3	1.85	0.42
1:A:307:ILE:HG22	1:A:311:TRP:CE2	2.54	0.42
1:A:393:VAL:O	1:A:395:GLU:N	2.53	0.42
1:A:598:TYR:OH	1:A:639:PRO:O	2.30	0.42
1:A:885:GLU:HG2	1:A:887:ASP:H	1.84	0.42
1:A:1008:VAL:CG2	1:A:1008:VAL:O	2.67	0.42
1:A:1084:THR:CG2	1:A:1274:ALA:HA	2.48	0.42
1:A:2032:VAL:HG11	1:E:2032:VAL:HG11	2.00	0.42
1:A:2300:PHE:HZ	1:A:2398:LEU:HB3	1.85	0.42
1:A:2563:LEU:HD21	1:A:2567:PHE:HB2	2.02	0.42
1:A:2786:ASP:OD2	1:A:2789:MET:HG2	2.19	0.42
1:A:3080:ARG:HG3	1:A:3080:ARG:NH1	2.09	0.42
1:B:107:LEU:HD13	1:B:113:VAL:HB	2.01	0.42
1:B:1228:VAL:HB	1:B:1311:PHE:HB2	2.02	0.42
1:B:2141:VAL:HG22	1:B:2238:PHE:HD2	1.85	0.42
1:B:2558:LEU:HB2	1:E:2701:LEU:HD23	2.02	0.42
1:B:2889:ILE:HG13	1:B:2922:LEU:HD13	2.02	0.42
1:C:1275:ALA:HB2	1:C:1311:PHE:CE2	2.55	0.42
1:C:2354:SER:O	1:C:2358:GLU:HG3	2.20	0.42
1:C:2449:GLU:O	1:C:2449:GLU:CG	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2620:THR:OG1	1:C:2791:ARG:NH2	2.52	0.42
1:C:2695:MET:HG3	1:C:2696:TYR:N	2.34	0.42
1:C:2892:HIS:HA	1:C:2942:GLN:HE22	1.85	0.42
1:D:1656:LYS:N	1:D:1657:PRO:HD2	2.35	0.42
1:D:2503:LYS:HG3	1:D:2513:TYR:HB2	2.02	0.42
1:D:2530:TYR:O	1:D:2533:ALA:N	2.52	0.42
1:D:2695:MET:HG3	1:D:2696:TYR:N	2.34	0.42
1:E:210:VAL:HG22	1:E:287:PHE:HD1	1.83	0.42
1:E:212:ASN:C	1:E:244:ARG:HB3	2.44	0.42
1:E:885:GLU:HG2	1:E:887:ASP:H	1.84	0.42
1:E:1120:GLU:HA	1:E:1125:VAL:CG2	2.50	0.42
1:E:1705:VAL:C	1:E:1735:GLU:HB2	2.45	0.42
1:E:2891:LYS:HZ2	1:E:2903:GLU:HG2	1.85	0.42
1:F:78:GLU:HB2	1:F:176:VAL:HG21	2.01	0.42
1:F:336:TRP:HE3	1:F:339:GLU:OE2	2.03	0.42
1:F:1687:PHE:CE1	1:F:1723:GLU:HG2	2.55	0.42
1:F:2297:ARG:HH22	1:F:2391:LYS:HZ3	1.66	0.42
1:F:2444:PRO:HB2	1:F:2988:PRO:HB3	2.01	0.42
1:F:2686:MET:HE1	1:F:2935:LYS:HZ3	1.85	0.42
1:F:2846:ALA:O	1:F:2859:GLY:HA3	2.20	0.42
1:A:341:THR:HG23	1:A:344:HIS:ND1	2.34	0.42
1:A:756:LEU:HD13	1:A:859:PHE:CD2	2.55	0.42
1:A:1133:VAL:N	1:A:1193:ALA:O	2.48	0.42
1:A:2449:GLU:O	1:A:2449:GLU:CG	2.68	0.42
1:A:2805:ASP:OD2	1:A:2807:ARG:HB2	2.20	0.42
1:B:669:LYS:O	1:B:682:ASN:HB3	2.20	0.42
1:B:856:PRO:HG2	1:B:874:ASP:HB2	2.00	0.42
1:B:1120:GLU:HA	1:B:1125:VAL:CG2	2.50	0.42
1:B:2014:SER:N	1:C:2591:ARG:HH12	2.16	0.42
1:B:2244:ARG:HG2	1:B:2245:VAL:N	2.34	0.42
1:B:2428:PRO:O	1:B:2428:PRO:CG	2.67	0.42
1:B:2753:LYS:HZ3	1:E:2752:ASP:CG	2.26	0.42
1:C:1021:LEU:HB3	1:C:1034:GLU:HG2	2.01	0.42
1:C:1662:ARG:HG3	1:C:1663:LYS:N	2.34	0.42
1:C:2300:PHE:HZ	1:C:2398:LEU:HB3	1.85	0.42
1:D:1228:VAL:HB	1:D:1311:PHE:HB2	2.02	0.42
1:D:1275:ALA:HB2	1:D:1311:PHE:CE2	2.55	0.42
1:D:1491:ASP:HB2	1:D:1495:ARG:HB2	2.02	0.42
1:D:1611:ILE:HG23	1:D:1624:THR:HA	2.02	0.42
1:D:2354:SER:O	1:D:2358:GLU:HG3	2.20	0.42
1:D:2512:TRP:O	1:D:2520:LEU:HD12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:613:GLY:HA2	2:E:4000:FMN:O5'	2.19	0.42
1:E:668:THR:HG23	1:E:683:GLY:HA3	2.02	0.42
1:E:928:ALA:HB1	1:E:931:VAL:CB	2.50	0.42
1:E:1656:LYS:N	1:E:1657:PRO:HD2	2.35	0.42
1:E:2244:ARG:HG2	1:E:2245:VAL:N	2.34	0.42
1:E:2246:ALA:C	1:E:2255:ARG:NH1	2.78	0.42
1:E:2584:ASP:O	1:E:2586:GLU:N	2.53	0.42
1:E:2889:ILE:HG13	1:E:2922:LEU:HD13	2.02	0.42
1:E:2889:ILE:HB	1:E:2924:ILE:HG12	2.01	0.42
1:E:2911:ALA:O	1:E:2916:ARG:HB2	2.19	0.42
1:E:2957:PRO:HB3	1:E:2980:PRO:N	2.35	0.42
1:A:212:ASN:C	1:A:244:ARG:HB3	2.44	0.42
1:A:1106:CYS:SG	1:A:1174:VAL:HG11	2.60	0.42
1:A:1120:GLU:HA	1:A:1125:VAL:CG2	2.50	0.42
1:A:1275:ALA:O	1:A:1279:VAL:HG23	2.20	0.42
1:A:1317:GLY:O	1:A:1324:VAL:HG12	2.19	0.42
1:A:1702:GLU:CD	1:A:1711:VAL:HG22	2.45	0.42
1:A:2610:ARG:HD2	1:F:2558:LEU:HD11	2.01	0.42
1:A:2701:LEU:HD23	1:F:2558:LEU:HB2	2.02	0.42
1:A:2845:PHE:N	1:A:3003:SER:O	2.46	0.42
1:B:756:LEU:HD13	1:B:859:PHE:CD2	2.55	0.42
1:B:1702:GLU:CD	1:B:1711:VAL:HG22	2.45	0.42
1:B:2286:ARG:HD3	1:B:2331:SER:OG	2.20	0.42
1:B:2786:ASP:OD2	1:B:2789:MET:HG2	2.19	0.42
1:B:2892:HIS:HA	1:B:2942:GLN:HE22	1.85	0.42
1:C:107:LEU:HD13	1:C:113:VAL:HB	2.01	0.42
1:C:1084:THR:CG2	1:C:1274:ALA:HA	2.49	0.42
1:C:1380:ALA:HB1	1:C:1474:LEU:CD1	2.50	0.42
1:C:1705:VAL:C	1:C:1735:GLU:HB2	2.45	0.42
1:C:2246:ALA:C	1:C:2255:ARG:NH1	2.78	0.42
1:C:2503:LYS:HG3	1:C:2513:TYR:HB2	2.02	0.42
1:C:2805:ASP:OD2	1:C:2807:ARG:HB2	2.20	0.42
1:D:436:THR:OG1	1:D:437:PRO:HD3	2.19	0.42
1:D:585:HIS:HD2	1:D:586:SER:H	1.62	0.42
1:D:709:LEU:HD21	1:D:872:ARG:NE	2.34	0.42
1:D:2300:PHE:HZ	1:D:2398:LEU:HB3	1.85	0.42
1:D:2800:PHE:CZ	1:D:2812:LEU:HD13	2.55	0.42
1:D:2961:LEU:HD22	1:D:2976:TRP:HD1	1.85	0.42
1:E:1228:VAL:HB	1:E:1311:PHE:HB2	2.02	0.42
1:E:1684:ASP:HA	1:E:1687:PHE:HD2	1.82	0.42
1:E:2055:VAL:HG22	1:E:2194:TRP:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2354:SER:O	1:E:2358:GLU:HG3	2.20	0.42
1:F:488:ASN:OD1	1:F:523:SER:OG	2.34	0.42
1:F:928:ALA:HB1	1:F:931:VAL:CB	2.50	0.42
1:F:970:ILE:O	1:F:974:THR:HG22	2.20	0.42
1:F:1705:VAL:C	1:F:1735:GLU:HB2	2.45	0.42
1:F:2405:MET:HE2	1:F:2409:ALA:HB2	2.01	0.42
1:F:2620:THR:OG1	1:F:2791:ARG:NH2	2.53	0.42
1:F:2800:PHE:CZ	1:F:2812:LEU:HD13	2.55	0.42
1:F:2805:ASP:OD2	1:F:2807:ARG:HB2	2.20	0.42
1:F:2958:ASN:HD22	1:F:2976:TRP:NE1	2.18	0.42
1:A:266:ALA:O	1:A:270:GLU:HG3	2.20	0.41
1:A:668:THR:HG23	1:A:683:GLY:HA3	2.02	0.41
1:A:1117:ALA:HA	1:A:1120:GLU:HB2	2.01	0.41
1:B:1117:ALA:HA	1:B:1120:GLU:HB2	2.01	0.41
1:B:1399:ASN:HA	1:B:1400:PRO:HD3	1.86	0.41
1:B:1706:LYS:HA	1:B:1735:GLU:HG3	2.02	0.41
1:B:2354:SER:O	1:B:2358:GLU:HG3	2.20	0.41
1:B:2620:THR:OG1	1:B:2791:ARG:NH2	2.53	0.41
1:B:2701:LEU:HD23	1:E:2558:LEU:HB2	2.02	0.41
1:C:266:ALA:O	1:C:270:GLU:HG3	2.20	0.41
1:C:369:ARG:HD2	1:C:369:ARG:HA	1.85	0.41
1:C:795:HIS:NE2	1:C:797:GLN:HB2	2.35	0.41
1:C:1637:VAL:HA	1:C:1638:PRO:HD2	1.91	0.41
1:C:1733:ASN:H	1:C:1737:ASP:HB2	1.83	0.41
1:C:2800:PHE:CZ	1:C:2812:LEU:HD13	2.55	0.41
1:D:50:GLY:O	1:D:53:SER:OG	2.36	0.41
1:D:211:THR:HB	1:D:286:VAL:HB	2.01	0.41
1:D:417:LEU:HD21	1:D:625:LEU:HD21	2.02	0.41
1:D:669:LYS:O	1:D:682:ASN:HB3	2.20	0.41
1:D:1412:HIS:HD2	1:D:1413:PRO:CD	2.31	0.41
1:D:1702:GLU:CD	1:D:1711:VAL:HG22	2.45	0.41
1:D:2096:VAL:CG1	1:D:2097:ALA:N	2.82	0.41
1:D:2584:ASP:O	1:D:2586:GLU:N	2.53	0.41
1:D:2591:ARG:HH12	1:F:2014:SER:H	1.65	0.41
1:D:2686:MET:HE1	1:D:2935:LYS:HZ3	1.85	0.41
1:D:2889:ILE:HG13	1:D:2922:LEU:HD13	2.02	0.41
1:E:669:LYS:O	1:E:682:ASN:HB3	2.20	0.41
1:E:1460:ALA:O	1:E:1464:VAL:HG22	2.20	0.41
1:E:1491:ASP:HB2	1:E:1495:ARG:HB2	2.02	0.41
1:E:2294:SER:HB3	1:E:2310:LYS:HB2	2.02	0.41
1:E:2297:ARG:HH12	1:E:2391:LYS:NZ	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2810:GLY:HA2	1:E:2896:THR:HG22	2.01	0.41
1:F:45:ALA:O	1:F:351:ILE:HA	2.20	0.41
1:F:266:ALA:O	1:F:270:GLU:HG3	2.20	0.41
1:F:1611:ILE:HG23	1:F:1624:THR:HA	2.02	0.41
1:F:1619:VAL:HA	1:F:1620:PRO:HD2	1.80	0.41
1:F:2584:ASP:O	1:F:2586:GLU:N	2.53	0.41
1:F:2889:ILE:HG13	1:F:2922:LEU:HD13	2.02	0.41
1:F:2891:LYS:NZ	1:F:2903:GLU:HB3	2.35	0.41
1:A:613:GLY:HA2	2:A:4000:FMN:O5'	2.19	0.41
1:A:928:ALA:HB1	1:A:931:VAL:CB	2.50	0.41
1:A:1611:ILE:HG23	1:A:1624:THR:HA	2.02	0.41
1:A:1687:PHE:CE1	1:A:1723:GLU:HG2	2.55	0.41
1:A:1703:ILE:HG22	1:A:1704:GLY:H	1.85	0.41
1:A:2405:MET:HE2	1:A:2409:ALA:HB2	2.01	0.41
1:A:2555:SER:HA	1:A:2556:PRO:HD2	1.85	0.41
1:B:393:VAL:O	1:B:395:GLU:N	2.52	0.41
1:B:1380:ALA:HB1	1:B:1474:LEU:CD1	2.50	0.41
1:B:1687:PHE:CE1	1:B:1723:GLU:HG2	2.55	0.41
1:B:2055:VAL:HG22	1:B:2194:TRP:CD1	2.55	0.41
1:B:2702:GLY:HA3	1:E:2557:LEU:CG	2.46	0.41
1:C:2492:VAL:HG12	1:C:2526:ILE:HG22	2.02	0.41
1:C:2558:LEU:HB2	1:D:2701:LEU:HD23	2.02	0.41
1:C:2808:ARG:HH21	1:C:2901:PRO:HD3	1.85	0.41
1:D:53:SER:HA	1:D:359:ILE:HG13	2.01	0.41
1:D:160:GLN:HA	1:D:329:ILE:HD13	2.03	0.41
1:D:393:VAL:O	1:D:395:GLU:N	2.52	0.41
1:D:479:LEU:HD21	1:D:485:ILE:HD11	2.02	0.41
1:D:756:LEU:HD13	1:D:859:PHE:CD2	2.55	0.41
1:D:970:ILE:O	1:D:974:THR:HG22	2.20	0.41
1:D:1095:LEU:HD23	1:D:1098:VAL:HA	2.02	0.41
1:D:1275:ALA:O	1:D:1279:VAL:HG23	2.20	0.41
1:D:1380:ALA:HB1	1:D:1474:LEU:CD1	2.50	0.41
1:D:1660:LEU:HD23	1:D:1660:LEU:HA	1.85	0.41
1:D:2299:MET:H	1:D:2299:MET:HG2	1.68	0.41
1:D:2710:LEU:HD12	1:D:2713:VAL:HG21	2.03	0.41
1:D:2805:ASP:OD2	1:D:2807:ARG:HB2	2.20	0.41
1:D:2846:ALA:O	1:D:2859:GLY:HA3	2.20	0.41
1:E:78:GLU:HB2	1:E:176:VAL:HG21	2.01	0.41
1:E:795:HIS:NE2	1:E:797:GLN:HB2	2.35	0.41
1:E:1380:ALA:HB1	1:E:1474:LEU:CD1	2.50	0.41
1:E:2096:VAL:CG2	1:E:2097:ALA:N	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2958:ASN:HD22	1:E:2976:TRP:NE1	2.18	0.41
1:F:1280:THR:O	1:F:1288:PRO:HB3	2.20	0.41
1:F:1637:VAL:HA	1:F:1638:PRO:HD2	1.91	0.41
1:A:53:SER:HA	1:A:359:ILE:HG13	2.01	0.41
1:A:78:GLU:HB2	1:A:176:VAL:HG21	2.01	0.41
1:A:107:LEU:HD13	1:A:113:VAL:HB	2.02	0.41
1:A:160:GLN:HA	1:A:329:ILE:HD13	2.02	0.41
1:A:1656:LYS:N	1:A:1657:PRO:HD2	2.35	0.41
1:A:1724:TYR:C	1:A:1726:HIS:H	2.29	0.41
1:A:2294:SER:HB3	1:A:2310:LYS:HB2	2.02	0.41
1:A:2584:ASP:O	1:A:2586:GLU:N	2.53	0.41
1:B:160:GLN:HA	1:B:329:ILE:HD13	2.02	0.41
1:B:1491:ASP:HB2	1:B:1495:ARG:HB2	2.02	0.41
1:B:1703:ILE:HG22	1:B:1704:GLY:H	1.85	0.41
1:B:2958:ASN:HD22	1:B:2976:TRP:NE1	2.18	0.41
1:C:53:SER:HA	1:C:359:ILE:HG13	2.01	0.41
1:C:160:GLN:HA	1:C:329:ILE:HD13	2.02	0.41
1:C:202:GLY:O	1:C:289:PRO:HD2	2.21	0.41
1:C:1228:VAL:HB	1:C:1311:PHE:HB2	2.02	0.41
1:C:1703:ILE:HG22	1:C:1704:GLY:H	1.85	0.41
1:C:1706:LYS:HA	1:C:1735:GLU:HG3	2.03	0.41
1:C:2205:ASP:O	1:C:2209:LEU:HB2	2.21	0.41
1:C:2610:ARG:HD2	1:D:2558:LEU:HD11	2.01	0.41
1:C:2958:ASN:HD22	1:C:2976:TRP:NE1	2.18	0.41
1:D:1706:LYS:HA	1:D:1735:GLU:HG3	2.03	0.41
1:D:2449:GLU:O	1:D:2449:GLU:CG	2.68	0.41
1:E:341:THR:HG23	1:E:344:HIS:ND1	2.34	0.41
1:E:511:ARG:CB	1:E:540:ASN:HB2	2.46	0.41
1:E:559:SER:O	1:E:563:ILE:HG12	2.20	0.41
1:E:1687:PHE:CE1	1:E:1723:GLU:HG2	2.55	0.41
1:E:2449:GLU:O	1:E:2449:GLU:CG	2.68	0.41
1:E:2503:LYS:HG3	1:E:2513:TYR:HB2	2.02	0.41
1:E:2610:ARG:NH1	1:E:2700:LEU:HD11	2.25	0.41
1:E:2800:PHE:CZ	1:E:2812:LEU:HD13	2.55	0.41
1:E:2846:ALA:O	1:E:2859:GLY:HA3	2.20	0.41
1:F:393:VAL:O	1:F:395:GLU:N	2.53	0.41
1:F:885:GLU:HG2	1:F:887:ASP:H	1.84	0.41
1:F:957:LEU:O	1:F:1034:GLU:HB2	2.20	0.41
1:F:1013:THR:CG2	1:F:1014:TRP:H	1.96	0.41
1:F:1228:VAL:HB	1:F:1311:PHE:HB2	2.02	0.41
1:F:1460:ALA:O	1:F:1464:VAL:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2134:TYR:HB3	1:F:2189:PHE:HD2	1.85	0.41
1:F:2296:ASN:ND2	1:F:2395:THR:HG21	2.34	0.41
1:F:2354:SER:O	1:F:2358:GLU:HG3	2.20	0.41
1:A:45:ALA:O	1:A:351:ILE:HA	2.20	0.41
1:A:618:PRO:HB3	1:A:915:PHE:HA	2.02	0.41
1:A:795:HIS:NE2	1:A:797:GLN:HB2	2.35	0.41
1:A:2141:VAL:HG22	1:A:2238:PHE:HD2	1.85	0.41
1:A:2686:MET:HE1	1:A:2935:LYS:HG3	2.03	0.41
1:A:2735:HIS:O	1:F:2737:VAL:HG23	2.21	0.41
1:A:2800:PHE:CE1	1:A:2812:LEU:HD22	2.50	0.41
1:B:417:LEU:HD21	1:B:625:LEU:HD21	2.02	0.41
1:B:436:THR:OG1	1:B:437:PRO:HD3	2.19	0.41
1:B:795:HIS:NE2	1:B:797:GLN:HB2	2.35	0.41
1:B:1611:ILE:HG23	1:B:1624:THR:HA	2.02	0.41
1:B:1724:TYR:C	1:B:1726:HIS:H	2.28	0.41
1:B:2715:PRO:HD2	1:E:2737:VAL:HG11	2.02	0.41
1:B:2961:LEU:HD22	1:B:2976:TRP:HD1	1.85	0.41
1:C:42:GLU:HA	1:C:43:PRO:HD3	1.91	0.41
1:C:488:ASN:OD1	1:C:523:SER:OG	2.34	0.41
1:C:668:THR:HG23	1:C:683:GLY:HA3	2.02	0.41
1:C:957:LEU:O	1:C:1034:GLU:HB2	2.20	0.41
1:C:2557:LEU:HB3	1:C:2613:ARG:HB2	2.01	0.41
1:C:2584:ASP:O	1:C:2586:GLU:N	2.53	0.41
1:D:1087:PHE:CZ	1:E:203:ASP:OD2	2.72	0.41
1:D:1533:VAL:N	1:D:1543:ALA:O	2.52	0.41
1:D:2563:LEU:HD21	1:D:2567:PHE:HB2	2.02	0.41
1:D:2818:GLY:C	1:D:2940:VAL:HG11	2.46	0.41
1:E:336:TRP:HE3	1:E:339:GLU:OE2	2.03	0.41
1:E:393:VAL:O	1:E:395:GLU:N	2.53	0.41
1:E:970:ILE:O	1:E:974:THR:HG22	2.20	0.41
1:E:1106:CYS:SG	1:E:1174:VAL:HG11	2.60	0.41
1:E:1412:HIS:CD2	1:E:1413:PRO:HD2	2.49	0.41
1:E:1703:ILE:HG22	1:E:1704:GLY:H	1.85	0.41
1:E:2563:LEU:HD21	1:E:2567:PHE:HB2	2.02	0.41
1:F:1120:GLU:HA	1:F:1125:VAL:CG2	2.50	0.41
1:F:1380:ALA:HB1	1:F:1474:LEU:CD1	2.50	0.41
1:F:1462:ALA:HB2	1:F:1468:TYR:CE1	2.56	0.41
1:F:1656:LYS:N	1:F:1657:PRO:HD2	2.35	0.41
1:A:417:LEU:HD21	1:A:625:LEU:HD21	2.02	0.41
1:A:1095:LEU:HD23	1:A:1098:VAL:HA	2.03	0.41
1:A:1380:ALA:HB1	1:A:1474:LEU:CD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2296:ASN:ND2	1:A:2395:THR:HG21	2.34	0.41
1:A:2652:ILE:HG22	1:A:3051:MET:HE1	2.01	0.41
1:A:2752:ASP:CG	1:F:2753:LYS:HZ3	2.24	0.41
1:B:78:GLU:HB2	1:B:176:VAL:HG21	2.01	0.41
1:B:360:LEU:HA	1:B:363:LEU:HB3	2.02	0.41
1:B:1705:VAL:C	1:B:1735:GLU:HB2	2.45	0.41
1:B:2014:SER:H	1:C:2591:ARG:NH1	2.19	0.41
1:B:2483:VAL:HG13	1:B:2954:VAL:HG11	2.03	0.41
1:B:2700:LEU:HD22	1:E:2697:HIS:CD2	2.43	0.41
1:B:2818:GLY:C	1:B:2940:VAL:HG11	2.46	0.41
1:B:2919:GLY:O	1:B:2921:PRO:HD3	2.21	0.41
1:C:358:ASP:OD2	1:C:361:THR:HB	2.21	0.41
1:C:587:TRP:CZ2	1:C:694:ASP:OD2	2.74	0.41
1:C:709:LEU:HD11	1:C:872:ARG:CZ	2.51	0.41
1:C:928:ALA:HB1	1:C:931:VAL:CB	2.50	0.41
1:C:2134:TYR:HB3	1:C:2189:PHE:HD2	1.85	0.41
1:C:2405:MET:HE2	1:C:2409:ALA:HB2	2.01	0.41
1:C:2710:LEU:HD12	1:C:2713:VAL:HG21	2.03	0.41
1:C:2737:VAL:HG11	1:D:2715:PRO:HD2	2.02	0.41
1:C:2770:LEU:CB	1:C:2815:GLN:HB3	2.51	0.41
1:D:266:ALA:O	1:D:270:GLU:HG3	2.20	0.41
1:D:2808:ARG:HH21	1:D:2901:PRO:HD3	1.85	0.41
1:E:180:ALA:O	1:E:184:LEU:HG	2.21	0.41
1:E:233:LEU:HB3	1:E:251:THR:OG1	2.21	0.41
1:E:598:TYR:OH	1:E:639:PRO:O	2.30	0.41
1:E:618:PRO:HB3	1:E:915:PHE:HA	2.02	0.41
1:E:1247:ASN:HA	1:E:1248:PRO:HD3	1.83	0.41
1:E:1619:VAL:HA	1:E:1620:PRO:HD2	1.80	0.41
1:E:2134:TYR:HB3	1:E:2189:PHE:HD2	1.85	0.41
1:E:2695:MET:HG3	1:E:2696:TYR:N	2.34	0.41
1:E:2808:ARG:HH21	1:E:2901:PRO:HD3	1.85	0.41
1:E:2919:GLY:O	1:E:2921:PRO:HD3	2.21	0.41
1:F:202:GLY:O	1:F:289:PRO:HD2	2.20	0.41
1:F:233:LEU:HB3	1:F:251:THR:OG1	2.21	0.41
1:F:756:LEU:HD13	1:F:859:PHE:CD2	2.55	0.41
1:F:2449:GLU:O	1:F:2449:GLU:CG	2.68	0.41
1:F:2818:GLY:C	1:F:2940:VAL:HG11	2.46	0.41
1:A:233:LEU:HB3	1:A:251:THR:OG1	2.21	0.41
1:A:358:ASP:OD2	1:A:361:THR:HB	2.21	0.41
1:A:1275:ALA:HB2	1:A:1311:PHE:CE2	2.55	0.41
1:A:1504:ARG:HA	1:A:1505:PRO:HD2	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2098:THR:HG23	1:A:2099:GLN:N	2.36	0.41
1:A:2846:ALA:O	1:A:2859:GLY:HA3	2.20	0.41
1:A:2919:GLY:O	1:A:2921:PRO:HD3	2.21	0.41
1:B:709:LEU:HD11	1:B:872:ARG:CZ	2.51	0.41
1:B:957:LEU:O	1:B:1034:GLU:HB2	2.20	0.41
1:B:2205:ASP:O	1:B:2209:LEU:HB2	2.21	0.41
1:B:2300:PHE:HZ	1:B:2398:LEU:HB3	1.85	0.41
1:B:2611:VAL:HA	1:B:2612:PRO:HD3	1.86	0.41
1:B:2891:LYS:HB2	1:B:2893:ASP:OD2	2.21	0.41
1:C:336:TRP:HE3	1:C:339:GLU:OE2	2.03	0.41
1:C:417:LEU:HD21	1:C:625:LEU:HD21	2.02	0.41
1:C:580:ARG:HD3	1:C:896:ALA:HB3	2.01	0.41
1:C:1008:VAL:O	1:C:1008:VAL:CG2	2.67	0.41
1:C:1724:TYR:C	1:C:1726:HIS:H	2.29	0.41
1:C:2400:ASP:OD1	1:C:2400:ASP:N	2.45	0.41
1:D:107:LEU:HD13	1:D:113:VAL:HB	2.02	0.41
1:D:436:THR:HG22	1:D:460:GLY:HA3	2.03	0.41
1:D:1237:ARG:HG2	1:D:1237:ARG:HH11	1.86	0.41
1:D:1352:PHE:HA	1:D:1353:PRO:HD3	1.72	0.41
1:D:2919:GLY:O	1:D:2921:PRO:HD3	2.21	0.41
1:E:202:GLY:O	1:E:289:PRO:HD2	2.21	0.41
1:E:266:ALA:O	1:E:270:GLU:HG3	2.20	0.41
1:E:1021:LEU:HB3	1:E:1034:GLU:HG2	2.01	0.41
1:E:1095:LEU:HD23	1:E:1098:VAL:HA	2.02	0.41
1:E:1462:ALA:HB2	1:E:1468:TYR:CE1	2.56	0.41
1:E:1611:ILE:HG23	1:E:1624:THR:HA	2.02	0.41
1:E:1706:LYS:HA	1:E:1735:GLU:HG3	2.03	0.41
1:E:2013:LEU:HD23	1:E:2013:LEU:HA	1.87	0.41
1:E:2014:SER:H	1:F:2591:ARG:NH1	2.19	0.41
1:E:2891:LYS:NZ	1:E:2903:GLU:HB3	2.35	0.41
1:F:587:TRP:CZ2	1:F:694:ASP:OD2	2.74	0.41
1:F:1275:ALA:HB2	1:F:1311:PHE:CE2	2.55	0.41
1:F:1491:ASP:HB2	1:F:1495:ARG:HB2	2.02	0.41
1:F:2173:ASP:CG	1:F:2799:LYS:HZ3	2.25	0.41
1:F:2563:LEU:HD21	1:F:2567:PHE:HB2	2.02	0.41
1:A:488:ASN:OD1	1:A:523:SER:OG	2.34	0.41
1:A:585:HIS:HB3	1:A:694:ASP:HB2	2.03	0.41
1:A:1070:VAL:N	1:A:1152:PHE:O	2.52	0.41
1:A:1462:ALA:HB2	1:A:1468:TYR:CE1	2.56	0.41
1:A:2286:ARG:HD3	1:A:2331:SER:OG	2.20	0.41
1:A:2753:LYS:HZ3	1:F:2752:ASP:CG	2.25	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2889:ILE:HB	1:A:2924:ILE:HG12	2.01	0.41
1:A:2958:ASN:HD22	1:A:2976:TRP:NE1	2.18	0.41
1:A:2961:LEU:HD22	1:A:2976:TRP:HD1	1.85	0.41
1:B:428:SER:HA	1:B:429:PRO:HD3	1.94	0.41
1:B:1008:VAL:CG1	1:B:1008:VAL:O	2.68	0.41
1:B:2770:LEU:CB	1:B:2815:GLN:HB3	2.51	0.41
1:B:2989:LEU:HD12	1:B:2989:LEU:HA	1.77	0.41
1:C:438:THR:HA	1:C:880:HIS:CE1	2.51	0.41
1:C:1275:ALA:O	1:C:1279:VAL:HG23	2.20	0.41
1:C:1687:PHE:CE1	1:C:1723:GLU:HG2	2.55	0.41
1:C:2665:THR:HA	1:C:2666:PRO:HD3	1.86	0.41
1:D:336:TRP:HE3	1:D:339:GLU:OE2	2.03	0.41
1:D:795:HIS:NE2	1:D:797:GLN:HB2	2.35	0.41
1:D:928:ALA:HB1	1:D:931:VAL:CB	2.50	0.41
1:D:1705:VAL:C	1:D:1735:GLU:HB2	2.45	0.41
1:D:2141:VAL:HG22	1:D:2238:PHE:CD2	2.56	0.41
1:D:2620:THR:OG1	1:D:2791:ARG:NH2	2.53	0.41
1:D:2669:LEU:HD23	1:D:2831:MET:HE1	2.01	0.41
1:E:438:THR:HA	1:E:880:HIS:CE1	2.51	0.41
1:E:709:LEU:HD21	1:E:872:ARG:NE	2.34	0.41
1:E:2228:LEU:HD23	1:E:2228:LEU:HA	1.86	0.41
1:E:2483:VAL:HG13	1:E:2954:VAL:HG11	2.03	0.41
1:E:2652:ILE:HG22	1:E:3051:MET:HE1	2.01	0.41
1:E:2686:MET:HE1	1:E:2935:LYS:HG3	2.03	0.41
1:E:2892:HIS:HA	1:E:2942:GLN:HE22	1.85	0.41
1:F:160:GLN:HA	1:F:329:ILE:HD13	2.02	0.41
1:F:668:THR:HG23	1:F:683:GLY:HA3	2.02	0.41
1:F:795:HIS:NE2	1:F:797:GLN:HB2	2.35	0.41
1:F:1084:THR:CG2	1:F:1274:ALA:HA	2.48	0.41
1:F:1662:ARG:HG3	1:F:1663:LYS:N	2.34	0.41
1:F:2483:VAL:HG13	1:F:2954:VAL:HG11	2.03	0.41
1:F:2686:MET:HE1	1:F:2935:LYS:HG3	2.03	0.41
1:A:954:PRO:O	1:A:965:ASN:N	2.52	0.41
1:A:2715:PRO:HD2	1:F:2737:VAL:HG11	2.02	0.41
1:B:266:ALA:O	1:B:270:GLU:HG3	2.20	0.41
1:B:618:PRO:HB3	1:B:915:PHE:HA	2.02	0.41
1:B:970:ILE:O	1:B:974:THR:HG22	2.20	0.41
1:B:1400:PRO:O	1:B:1415:GLY:HA2	2.21	0.41
1:B:2260:MET:HE2	1:B:2260:MET:HB3	1.99	0.41
1:B:2692:MET:HE2	1:B:2692:MET:HB3	1.93	0.41
1:C:1106:CYS:SG	1:C:1174:VAL:HG11	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1120:GLU:HA	1:C:1125:VAL:CG2	2.50	0.41
1:C:1399:ASN:HA	1:C:1400:PRO:HD3	1.86	0.41
1:C:1400:PRO:O	1:C:1415:GLY:HA2	2.21	0.41
1:C:1460:ALA:O	1:C:1464:VAL:HG22	2.20	0.41
1:C:2558:LEU:HD11	1:D:2610:ARG:HD2	2.01	0.41
1:C:2652:ILE:HG22	1:C:3051:MET:HE1	2.01	0.41
1:C:2686:MET:HE1	1:C:2935:LYS:HZ3	1.85	0.41
1:C:2735:HIS:O	1:D:2737:VAL:HG23	2.21	0.41
1:C:2891:LYS:HB2	1:C:2893:ASP:OD2	2.21	0.41
1:D:78:GLU:HB2	1:D:176:VAL:HG21	2.02	0.41
1:D:559:SER:O	1:D:563:ILE:HG12	2.20	0.41
1:D:594:LEU:O	1:D:598:TYR:HB2	2.21	0.41
1:D:795:HIS:HE2	1:D:797:GLN:HB2	1.86	0.41
1:D:1013:THR:CG2	1:D:1014:TRP:N	2.58	0.41
1:D:1460:ALA:O	1:D:1464:VAL:HG22	2.20	0.41
1:D:1687:PHE:CE1	1:D:1723:GLU:HG2	2.55	0.41
1:D:1695:LEU:HD12	1:D:1695:LEU:HA	1.71	0.41
1:D:2405:MET:O	1:D:2409:ALA:HB3	2.21	0.41
1:D:3062:HIS:H	1:D:3066:GLU:HG3	1.86	0.41
1:E:436:THR:OG1	1:E:437:PRO:HD3	2.19	0.41
1:E:1412:HIS:HD2	1:E:1413:PRO:CD	2.31	0.41
1:E:2669:LEU:HD23	1:E:2831:MET:HE1	2.01	0.41
1:E:2692:MET:HE2	1:E:2692:MET:HB3	1.93	0.41
1:E:2961:LEU:HD22	1:E:2976:TRP:HD1	1.85	0.41
1:F:1275:ALA:O	1:F:1279:VAL:HG23	2.20	0.41
1:F:1703:ILE:HG22	1:F:1704:GLY:H	1.85	0.41
1:F:2891:LYS:HB2	1:F:2893:ASP:OD2	2.21	0.41
1:F:2919:GLY:O	1:F:2921:PRO:HD3	2.21	0.41
1:A:180:ALA:O	1:A:184:LEU:HG	2.21	0.41
1:A:202:GLY:O	1:A:289:PRO:HD2	2.21	0.41
1:A:479:LEU:HD21	1:A:485:ILE:HD11	2.02	0.41
1:A:594:LEU:O	1:A:598:TYR:HB2	2.21	0.41
1:A:669:LYS:O	1:A:682:ASN:HB3	2.20	0.41
1:A:1099:PRO:HB2	1:A:1295:TRP:HE1	1.86	0.41
1:A:1460:ALA:O	1:A:1464:VAL:HG22	2.20	0.41
1:A:2014:SER:H	1:B:2591:ARG:NH1	2.19	0.41
1:A:2125:GLY:HA2	1:A:2128:ASN:CG	2.46	0.41
1:A:2134:TYR:HB3	1:A:2189:PHE:HD2	1.85	0.41
1:A:2246:ALA:C	1:A:2255:ARG:NH1	2.78	0.41
1:A:2354:SER:O	1:A:2358:GLU:HG3	2.20	0.41
1:A:2422:GLU:O	1:A:2422:GLU:CG	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2503:LYS:HG3	1:A:2513:TYR:HB2	2.02	0.41
1:A:2558:LEU:HB2	1:F:2701:LEU:HD23	2.02	0.41
1:A:2710:LEU:HD12	1:A:2713:VAL:HG21	2.03	0.41
1:A:2770:LEU:CB	1:A:2815:GLN:HB3	2.51	0.41
1:A:2800:PHE:CZ	1:A:2812:LEU:HD13	2.55	0.41
1:A:2891:LYS:NZ	1:A:2903:GLU:C	2.79	0.41
1:B:50:GLY:O	1:B:53:SER:OG	2.36	0.41
1:B:278:ARG:HD2	1:B:674:TRP:CE3	2.56	0.41
1:B:358:ASP:OD2	1:B:361:THR:HB	2.21	0.41
1:B:559:SER:O	1:B:563:ILE:HG12	2.20	0.41
1:B:795:HIS:HE2	1:B:797:GLN:HB2	1.86	0.41
1:B:1017:ILE:HG12	1:B:1045:VAL:HG11	2.03	0.41
1:B:1237:ARG:HG2	1:B:1237:ARG:HH11	1.86	0.41
1:B:1460:ALA:O	1:B:1464:VAL:HG22	2.20	0.41
1:B:2098:THR:HG23	1:B:2099:GLN:N	2.36	0.41
1:B:2212:TRP:O	1:B:2229:LYS:HB3	2.21	0.41
1:B:2246:ALA:C	1:B:2255:ARG:NH1	2.78	0.41
1:B:2405:MET:O	1:B:2409:ALA:HB3	2.21	0.41
1:B:2422:GLU:O	1:B:2422:GLU:CG	2.69	0.41
1:B:2444:PRO:HB2	1:B:2988:PRO:HB3	2.01	0.41
1:B:2808:ARG:HH21	1:B:2901:PRO:HD3	1.85	0.41
1:C:133:GLN:O	1:C:137:VAL:HG23	2.21	0.41
1:C:233:LEU:HB3	1:C:251:THR:OG1	2.21	0.41
1:C:559:SER:O	1:C:563:ILE:HG12	2.20	0.41
1:C:618:PRO:HB3	1:C:915:PHE:HA	2.02	0.41
1:C:756:LEU:HD13	1:C:859:PHE:CD2	2.55	0.41
1:C:1634:ARG:NH1	1:C:1639:ALA:H	2.11	0.41
1:C:1719:LEU:O	1:C:1723:GLU:HB3	2.21	0.41
1:C:1986:LEU:HA	1:C:1989:PHE:CD2	2.56	0.41
1:C:2096:VAL:CG2	1:C:2097:ALA:N	2.82	0.41
1:C:2212:TRP:O	1:C:2229:LYS:HB3	2.21	0.41
1:C:2260:MET:HE2	1:C:2260:MET:HB3	1.99	0.41
1:C:2405:MET:O	1:C:2409:ALA:HB3	2.21	0.41
1:C:2647:VAL:HA	1:C:2650:TRP:CD1	2.52	0.41
1:C:2701:LEU:HD23	1:D:2558:LEU:HB2	2.02	0.41
1:C:2715:PRO:HD2	1:D:2737:VAL:HG11	2.02	0.41
1:C:2737:VAL:HG23	1:D:2735:HIS:O	2.21	0.41
1:C:2891:LYS:NZ	1:C:2903:GLU:HB3	2.35	0.41
1:C:2919:GLY:O	1:C:2921:PRO:HD3	2.21	0.41
1:C:2961:LEU:HD22	1:C:2976:TRP:HD1	1.85	0.41
1:D:42:GLU:HA	1:D:43:PRO:HD3	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:278:ARG:HD2	1:D:674:TRP:CE3	2.56	0.41
1:D:587:TRP:CZ2	1:D:694:ASP:OD2	2.74	0.41
1:D:1008:VAL:O	1:D:1008:VAL:CG2	2.67	0.41
1:D:1070:VAL:N	1:D:1152:PHE:O	2.52	0.41
1:D:1353:PRO:HB2	1:D:1707:SER:HB2	2.03	0.41
1:D:2010:GLN:OE1	1:D:2013:LEU:HD11	2.21	0.41
1:D:2422:GLU:O	1:D:2422:GLU:CG	2.69	0.41
1:D:2468:GLU:OE2	1:D:2478:ARG:NH2	2.48	0.41
1:D:2555:SER:HA	1:D:2556:PRO:HD2	1.84	0.41
1:D:2591:ARG:NH1	1:F:2014:SER:H	2.18	0.41
1:D:2686:MET:HE1	1:D:2935:LYS:HG3	2.03	0.41
1:E:107:LEU:HD13	1:E:113:VAL:HB	2.02	0.41
1:E:273:ARG:HD2	1:E:282:VAL:CG1	2.51	0.41
1:E:278:ARG:HD2	1:E:674:TRP:CE3	2.56	0.41
1:E:360:LEU:HA	1:E:363:LEU:HB3	2.02	0.41
1:E:369:ARG:HD2	1:E:369:ARG:HA	1.85	0.41
1:E:585:HIS:HB3	1:E:694:ASP:HB2	2.03	0.41
1:E:594:LEU:O	1:E:598:TYR:HB2	2.21	0.41
1:E:709:LEU:HD11	1:E:872:ARG:CZ	2.51	0.41
1:E:1099:PRO:HB2	1:E:1295:TRP:HE1	1.86	0.41
1:E:1702:GLU:CD	1:E:1711:VAL:HG22	2.45	0.41
1:E:2286:ARG:HD3	1:E:2331:SER:OG	2.20	0.41
1:E:2300:PHE:HZ	1:E:2398:LEU:HB3	1.85	0.41
1:E:2492:VAL:HG12	1:E:2526:ILE:HG22	2.03	0.41
1:E:2674:HIS:HA	1:E:2675:PRO:HD2	1.88	0.41
1:E:2710:LEU:HD12	1:E:2713:VAL:HG21	2.03	0.41
1:F:594:LEU:O	1:F:598:TYR:HB2	2.21	0.41
1:F:669:LYS:O	1:F:682:ASN:HB3	2.20	0.41
1:F:1095:LEU:HD23	1:F:1098:VAL:HA	2.02	0.41
1:F:1237:ARG:HH11	1:F:1237:ARG:HG2	1.86	0.41
1:F:1706:LYS:HA	1:F:1735:GLU:HG3	2.03	0.41
1:F:1724:TYR:C	1:F:1726:HIS:H	2.29	0.41
1:F:2141:VAL:HG22	1:F:2238:PHE:HD2	1.85	0.41
1:F:2205:ASP:O	1:F:2209:LEU:HB2	2.21	0.41
1:F:2294:SER:HB3	1:F:2310:LYS:HB2	2.02	0.41
1:F:2405:MET:O	1:F:2409:ALA:HB3	2.21	0.41
1:F:2611:VAL:HA	1:F:2612:PRO:HD3	1.86	0.41
1:F:2686:MET:HE3	1:F:2686:MET:HB2	1.94	0.41
1:F:2961:LEU:HD22	1:F:2976:TRP:HD1	1.85	0.41
1:F:3057:ASP:OD1	1:F:3057:ASP:N	2.54	0.41
1:A:436:THR:HG22	1:A:460:GLY:HA3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:544:ILE:O	1:A:546:HIS:N	2.41	0.41
1:A:1087:PHE:CD1	1:B:198:ILE:HG23	2.56	0.41
1:A:1400:PRO:O	1:A:1415:GLY:HA2	2.21	0.41
1:A:2892:HIS:HA	1:A:2942:GLN:HE22	1.85	0.41
1:A:2989:LEU:HD12	1:A:2989:LEU:HA	1.77	0.41
1:B:2672:TRP:CZ3	1:B:2830:LYS:HG2	2.56	0.41
1:B:2689:MET:HE2	1:B:2689:MET:HB3	2.01	0.41
1:B:2889:ILE:HB	1:B:2924:ILE:HG12	2.01	0.41
1:C:594:LEU:O	1:C:598:TYR:HB2	2.21	0.41
1:C:1095:LEU:HD23	1:C:1098:VAL:HA	2.03	0.41
1:C:2618:SER:HB3	1:C:2786:ASP:OD1	2.21	0.41
1:C:2891:LYS:NZ	1:C:2903:GLU:C	2.79	0.41
1:C:3057:ASP:N	1:C:3057:ASP:OD1	2.54	0.41
1:D:180:ALA:O	1:D:184:LEU:HG	2.21	0.41
1:D:198:ILE:HG23	1:F:1087:PHE:CD1	2.56	0.41
1:D:1087:PHE:CD1	1:E:198:ILE:HG23	2.56	0.41
1:D:1619:VAL:HA	1:D:1620:PRO:HD2	1.81	0.41
1:D:1656:LYS:HE2	1:D:1660:LEU:HD21	2.03	0.41
1:D:2492:VAL:HG12	1:D:2526:ILE:HG22	2.03	0.41
1:D:2891:LYS:HZ2	1:D:2903:GLU:CB	2.33	0.41
1:E:587:TRP:CZ2	1:E:694:ASP:OD2	2.74	0.41
1:E:1237:ARG:HH11	1:E:1237:ARG:HG2	1.86	0.41
1:E:2010:GLN:OE1	1:E:2013:LEU:HD11	2.21	0.41
1:E:2672:TRP:CZ3	1:E:2830:LYS:HG2	2.56	0.41
1:E:2889:ILE:HD12	1:E:2993:LEU:HD23	2.03	0.41
1:F:2141:VAL:HG22	1:F:2238:PHE:CD2	2.56	0.41
1:F:2286:ARG:HD3	1:F:2331:SER:OG	2.20	0.41
1:F:2618:SER:HB3	1:F:2786:ASP:OD1	2.21	0.41
1:A:360:LEU:HA	1:A:363:LEU:HB3	2.02	0.40
1:A:709:LEU:HD11	1:A:872:ARG:CZ	2.51	0.40
1:A:2557:LEU:HD23	1:A:2558:LEU:N	2.37	0.40
1:A:2889:ILE:HD12	1:A:2993:LEU:HD23	2.03	0.40
1:B:273:ARG:HD2	1:B:282:VAL:CG1	2.51	0.40
1:B:488:ASN:OD1	1:B:523:SER:OG	2.34	0.40
1:B:668:THR:HG23	1:B:683:GLY:HA3	2.02	0.40
1:B:928:ALA:HB1	1:B:931:VAL:CB	2.50	0.40
1:B:1099:PRO:HB2	1:B:1295:TRP:HE1	1.86	0.40
1:B:1391:SER:HB3	1:D:2282:ASP:CG	2.46	0.40
1:B:2297:ARG:HH22	1:B:2391:LYS:HZ3	1.69	0.40
1:B:2674:HIS:NE2	1:E:2865:ARG:HD2	2.37	0.40
1:B:3062:HIS:H	1:B:3066:GLU:HG3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1491:ASP:HB2	1:C:1495:ARG:HB2	2.02	0.40
1:C:1504:ARG:HA	1:C:1505:PRO:HD2	1.93	0.40
1:C:1533:VAL:N	1:C:1543:ALA:O	2.52	0.40
1:C:2098:THR:HG23	1:C:2099:GLN:N	2.36	0.40
1:C:2125:GLY:HA2	1:C:2128:ASN:CG	2.46	0.40
1:C:2889:ILE:HD12	1:C:2993:LEU:HD23	2.03	0.40
1:C:2978:ARG:HG3	1:C:2979:GLU:HG3	2.03	0.40
1:D:369:ARG:HD2	1:D:369:ARG:HA	1.85	0.40
1:D:1400:PRO:O	1:D:1415:GLY:HA2	2.21	0.40
1:D:1637:VAL:HA	1:D:1638:PRO:HD2	1.91	0.40
1:D:1719:LEU:O	1:D:1723:GLU:HB3	2.21	0.40
1:D:2483:VAL:HG13	1:D:2954:VAL:HG11	2.03	0.40
1:E:160:GLN:HA	1:E:329:ILE:HD13	2.02	0.40
1:E:278:ARG:HD2	1:E:674:TRP:HE3	1.87	0.40
1:E:417:LEU:HD21	1:E:625:LEU:HD21	2.02	0.40
1:E:602:ARG:NH2	1:E:641:ASP:OD1	2.28	0.40
1:E:756:LEU:HD13	1:E:859:PHE:CD2	2.55	0.40
1:E:795:HIS:HE2	1:E:797:GLN:HB2	1.86	0.40
1:E:1271:LEU:HB3	1:E:1337:MET:SD	2.61	0.40
1:E:2978:ARG:HG3	1:E:2979:GLU:HG3	2.03	0.40
1:F:436:THR:HG22	1:F:460:GLY:HA3	2.03	0.40
1:F:709:LEU:HD11	1:F:872:ARG:CZ	2.51	0.40
1:F:1017:ILE:HG12	1:F:1045:VAL:HG11	2.03	0.40
1:F:1099:PRO:HB2	1:F:1295:TRP:HE1	1.86	0.40
1:F:1533:VAL:N	1:F:1543:ALA:O	2.52	0.40
1:F:2672:TRP:CZ3	1:F:2830:LYS:HG2	2.56	0.40
1:F:2892:HIS:HA	1:F:2942:GLN:HE22	1.85	0.40
1:F:3062:HIS:H	1:F:3066:GLU:CG	2.35	0.40
1:A:133:GLN:O	1:A:137:VAL:HG23	2.21	0.40
1:A:163:LEU:HD21	1:A:181:LEU:HB3	2.04	0.40
1:A:957:LEU:O	1:A:1034:GLU:HB2	2.20	0.40
1:A:1228:VAL:HB	1:A:1311:PHE:HB2	2.02	0.40
1:A:1491:ASP:HB2	1:A:1495:ARG:HB2	2.02	0.40
1:A:1702:GLU:OE1	1:A:1711:VAL:HG22	2.22	0.40
1:A:2212:TRP:O	1:A:2229:LYS:HB3	2.21	0.40
1:A:2228:LEU:HD23	1:A:2228:LEU:HA	1.86	0.40
1:A:2346:MET:O	1:A:2349:ASN:N	2.55	0.40
1:A:2405:MET:O	1:A:2409:ALA:HB3	2.21	0.40
1:A:2818:GLY:C	1:A:2940:VAL:HG11	2.46	0.40
1:B:1551:LEU:HD13	1:B:1551:LEU:HA	1.79	0.40
1:B:2134:TYR:HB3	1:B:2189:PHE:HD2	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2282:ASP:CG	1:D:1391:SER:HB3	2.46	0.40
1:B:2346:MET:O	1:B:2349:ASN:N	2.55	0.40
1:B:2503:LYS:HG3	1:B:2513:TYR:HB2	2.02	0.40
1:B:2645:ASP:CG	1:B:2690:THR:HB	2.47	0.40
1:B:2735:HIS:O	1:E:2737:VAL:HG23	2.21	0.40
1:B:2737:VAL:HG11	1:E:2715:PRO:HD2	2.02	0.40
1:B:2836:LEU:HD23	1:B:2836:LEU:HA	1.87	0.40
1:B:2891:LYS:NZ	1:B:2903:GLU:C	2.79	0.40
1:C:273:ARG:HD2	1:C:282:VAL:CG1	2.51	0.40
1:C:1353:PRO:HB2	1:C:1707:SER:HB2	2.04	0.40
1:C:2141:VAL:HG22	1:C:2238:PHE:CD2	2.56	0.40
1:C:2346:MET:O	1:C:2349:ASN:N	2.55	0.40
1:D:336:TRP:HE1	1:D:364:THR:HG22	1.86	0.40
1:D:709:LEU:HD11	1:D:872:ARG:CZ	2.51	0.40
1:D:2205:ASP:O	1:D:2209:LEU:HB2	2.21	0.40
1:D:2574:GLU:HG3	1:D:2599:TRP:CE2	2.57	0.40
1:D:2961:LEU:HD13	1:D:2976:TRP:CD1	2.57	0.40
1:E:1500:LEU:HD23	1:E:1574:VAL:HG21	2.02	0.40
1:E:1533:VAL:N	1:E:1543:ALA:O	2.52	0.40
1:E:1606:ASP:HA	1:E:1607:PRO:HD3	1.95	0.40
1:E:2141:VAL:HG22	1:E:2238:PHE:CD2	2.56	0.40
1:E:2574:GLU:HG3	1:E:2599:TRP:CE2	2.56	0.40
1:F:417:LEU:HD21	1:F:625:LEU:HD21	2.02	0.40
1:F:438:THR:HA	1:F:880:HIS:CE1	2.51	0.40
1:F:1400:PRO:O	1:F:1415:GLY:HA2	2.21	0.40
1:F:1616:PRO:HG2	1:F:1619:VAL:HB	2.04	0.40
1:F:2346:MET:O	1:F:2349:ASN:N	2.55	0.40
1:A:278:ARG:HD2	1:A:674:TRP:CE3	2.56	0.40
1:A:794:LEU:HD12	1:A:830:TYR:HB3	2.04	0.40
1:A:1017:ILE:HG12	1:A:1045:VAL:HG11	2.03	0.40
1:A:1237:ARG:HH11	1:A:1237:ARG:HG2	1.86	0.40
1:A:1986:LEU:HA	1:A:1989:PHE:CD2	2.56	0.40
1:A:2618:SER:HB3	1:A:2786:ASP:OD1	2.21	0.40
1:A:2891:LYS:HZ2	1:A:2903:GLU:HG2	1.85	0.40
1:A:2891:LYS:HB2	1:A:2893:ASP:OD2	2.21	0.40
1:A:2978:ARG:HG3	1:A:2979:GLU:HG3	2.03	0.40
1:B:1271:LEU:HB3	1:B:1337:MET:SD	2.62	0.40
1:B:2141:VAL:HG22	1:B:2238:PHE:CD2	2.56	0.40
1:B:2530:TYR:O	1:B:2533:ALA:N	2.52	0.40
1:B:2710:LEU:HD12	1:B:2713:VAL:HG21	2.03	0.40
1:B:2889:ILE:HD12	1:B:2993:LEU:HD23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2961:LEU:HD13	1:B:2976:TRP:CD1	2.57	0.40
1:C:278:ARG:HD2	1:C:674:TRP:HE3	1.87	0.40
1:C:1133:VAL:N	1:C:1193:ALA:O	2.48	0.40
1:C:1629:PHE:O	1:C:1633:ILE:HG13	2.22	0.40
1:C:2286:ARG:HD3	1:C:2331:SER:OG	2.20	0.40
1:C:2700:LEU:HD22	1:D:2697:HIS:CD2	2.43	0.40
1:C:2889:ILE:HG13	1:C:2922:LEU:HD13	2.02	0.40
1:C:3062:HIS:H	1:C:3066:GLU:HG3	1.86	0.40
1:D:618:PRO:HB3	1:D:915:PHE:HA	2.02	0.40
1:D:745:THR:HG22	1:D:747:LEU:N	2.37	0.40
1:D:2014:SER:H	1:E:2591:ARG:NH1	2.19	0.40
1:D:2645:ASP:CG	1:D:2690:THR:HB	2.47	0.40
1:D:2753:LYS:HD3	1:D:2753:LYS:HA	1.83	0.40
1:E:133:GLN:O	1:E:137:VAL:HG23	2.21	0.40
1:E:163:LEU:HD21	1:E:181:LEU:HB3	2.04	0.40
1:E:954:PRO:O	1:E:965:ASN:N	2.52	0.40
1:F:336:TRP:HE1	1:F:364:THR:HG22	1.86	0.40
1:F:358:ASP:OD2	1:F:361:THR:HB	2.21	0.40
1:F:381:ARG:O	1:F:385:ARG:HG3	2.22	0.40
1:F:618:PRO:HB3	1:F:915:PHE:HA	2.02	0.40
1:F:1629:PHE:O	1:F:1633:ILE:HG13	2.22	0.40
1:F:2212:TRP:O	1:F:2229:LYS:HB3	2.21	0.40
1:F:2891:LYS:HZ2	1:F:2903:GLU:CB	2.34	0.40
1:F:2891:LYS:NZ	1:F:2903:GLU:C	2.79	0.40
1:A:381:ARG:O	1:A:385:ARG:HG3	2.22	0.40
1:A:587:TRP:CZ2	1:A:694:ASP:OD2	2.74	0.40
1:A:2145:SER:O	1:A:2148:SER:OG	2.34	0.40
1:A:2495:LEU:HD23	1:A:2495:LEU:HA	1.89	0.40
1:A:2737:VAL:HG23	1:F:2735:HIS:O	2.21	0.40
1:A:3057:ASP:OD1	1:A:3057:ASP:N	2.54	0.40
1:B:81:LEU:HD23	1:B:81:LEU:HA	1.88	0.40
1:B:180:ALA:O	1:B:184:LEU:HG	2.21	0.40
1:B:1087:PHE:CD1	1:C:198:ILE:HG23	2.56	0.40
1:B:1095:LEU:HD23	1:B:1098:VAL:HA	2.02	0.40
1:B:1095:LEU:HD13	1:B:1289:PRO:CB	2.52	0.40
1:B:1598:GLU:HG2	1:B:1666:ILE:HG21	2.04	0.40
1:B:1656:LYS:HE2	1:B:1660:LEU:HD21	2.03	0.40
1:B:1719:LEU:O	1:B:1723:GLU:HB3	2.21	0.40
1:B:2492:VAL:HG12	1:B:2526:ILE:HG22	2.03	0.40
1:B:2737:VAL:HG23	1:E:2735:HIS:O	2.21	0.40
1:C:1462:ALA:HB2	1:C:1468:TYR:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1551:LEU:HD13	1:C:1551:LEU:HA	1.80	0.40
1:C:2251:GLU:H	1:C:2251:GLU:HG3	1.71	0.40
1:C:2483:VAL:HG13	1:C:2954:VAL:HG11	2.03	0.40
1:C:2686:MET:HE1	1:C:2935:LYS:HG3	2.03	0.40
1:C:2818:GLY:C	1:C:2940:VAL:HG11	2.46	0.40
1:D:273:ARG:HD2	1:D:282:VAL:CG1	2.51	0.40
1:D:408:VAL:HG23	1:D:418:GLU:HB2	2.04	0.40
1:D:1616:PRO:HG2	1:D:1619:VAL:HB	2.04	0.40
1:D:2672:TRP:CZ3	1:D:2830:LYS:HG2	2.56	0.40
1:D:2697:HIS:HE1	1:D:2773:GLU:OE2	2.05	0.40
1:E:358:ASP:OD2	1:E:361:THR:HB	2.21	0.40
1:E:2503:LYS:HE2	1:E:2514:ASP:O	2.22	0.40
1:E:2645:ASP:CG	1:E:2690:THR:HB	2.47	0.40
1:E:2891:LYS:NZ	1:E:2903:GLU:C	2.79	0.40
1:F:133:GLN:O	1:F:137:VAL:HG23	2.21	0.40
1:F:180:ALA:O	1:F:184:LEU:HG	2.21	0.40
1:F:541:GLU:HG3	1:F:542:VAL:N	2.37	0.40
1:F:745:THR:HG22	1:F:747:LEU:N	2.37	0.40
1:F:795:HIS:HE2	1:F:797:GLN:HB2	1.86	0.40
1:F:1008:VAL:CG2	1:F:1008:VAL:O	2.67	0.40
1:F:1141:LEU:HD12	1:F:1293:ILE:HA	2.04	0.40
1:F:1656:LYS:HE2	1:F:1660:LEU:HD21	2.04	0.40
1:F:2058:ASP:OD1	1:F:2058:ASP:N	2.46	0.40
1:F:2503:LYS:HG3	1:F:2513:TYR:HB2	2.02	0.40
1:F:2555:SER:HA	1:F:2556:PRO:HD2	1.85	0.40
1:F:2770:LEU:CB	1:F:2815:GLN:HB3	2.51	0.40
1:A:256:SER:O	1:A:259:GLU:HB3	2.22	0.40
1:A:1141:LEU:HD12	1:A:1293:ILE:HA	2.04	0.40
1:A:1360:LYS:HD2	1:A:1398:ASP:HA	2.04	0.40
1:A:1598:GLU:HG2	1:A:1666:ILE:HG21	2.04	0.40
1:A:1672:GLN:HE21	1:A:1672:GLN:HB3	1.58	0.40
1:A:2205:ASP:O	1:A:2209:LEU:HB2	2.21	0.40
1:A:2574:GLU:HG3	1:A:2599:TRP:CE2	2.57	0.40
1:A:2645:ASP:OD2	1:A:2691:SER:HB2	2.22	0.40
1:A:2865:ARG:HD2	1:F:2674:HIS:NE2	2.37	0.40
1:B:202:GLY:O	1:B:289:PRO:HD2	2.21	0.40
1:B:233:LEU:HB3	1:B:251:THR:OG1	2.21	0.40
1:B:436:THR:HG22	1:B:460:GLY:HA3	2.03	0.40
1:B:1702:GLU:OE1	1:B:1711:VAL:HG22	2.22	0.40
1:B:2697:HIS:HE1	1:B:2773:GLU:OE2	2.05	0.40
1:B:2865:ARG:HD2	1:E:2674:HIS:NE2	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:480:GLU:OE1	1:C:483:ARG:NH2	2.55	0.40
1:C:669:LYS:O	1:C:682:ASN:HB3	2.20	0.40
1:C:2010:GLN:OE1	1:C:2013:LEU:HD11	2.21	0.40
1:C:2468:GLU:OE2	1:C:2478:ARG:NH2	2.48	0.40
1:C:2672:TRP:CZ3	1:C:2830:LYS:HG2	2.56	0.40
1:D:194:ARG:HH12	1:F:1078:ALA:C	2.30	0.40
1:D:203:ASP:OD2	1:F:1087:PHE:HZ	2.05	0.40
1:D:1099:PRO:HB2	1:D:1295:TRP:HE1	1.86	0.40
1:D:1381:ASP:OD1	1:D:1391:SER:OG	2.22	0.40
1:D:1462:ALA:HB2	1:D:1468:TYR:CE1	2.56	0.40
1:D:1535:PHE:O	1:D:1679:TRP:N	2.48	0.40
1:D:2125:GLY:HA2	1:D:2128:ASN:CG	2.46	0.40
1:E:1400:PRO:O	1:E:1415:GLY:HA2	2.21	0.40
1:E:2098:THR:HG23	1:E:2099:GLN:N	2.36	0.40
1:E:2557:LEU:HD23	1:E:2558:LEU:N	2.37	0.40
1:E:2647:VAL:HA	1:E:2650:TRP:CD1	2.53	0.40
1:E:2818:GLY:C	1:E:2940:VAL:HG11	2.46	0.40
1:F:360:LEU:HA	1:F:363:LEU:HB3	2.02	0.40
1:F:1271:LEU:HB3	1:F:1337:MET:SD	2.62	0.40
1:F:1412:HIS:CD2	1:F:1413:PRO:HD2	2.49	0.40
1:F:2125:GLY:HA2	1:F:2128:ASN:CG	2.46	0.40
1:F:2503:LYS:HE2	1:F:2514:ASP:O	2.22	0.40
1:F:2710:LEU:HD12	1:F:2713:VAL:HG21	2.03	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	2818/3089 (91%)	2641 (94%)	159 (6%)	18 (1%)	21	59
1	B	2818/3089 (91%)	2641 (94%)	158 (6%)	19 (1%)	18	56

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	2818/3089 (91%)	2642 (94%)	157 (6%)	19 (1%)	18	56
1	D	2818/3089 (91%)	2641 (94%)	158 (6%)	19 (1%)	18	56
1	E	2818/3089 (91%)	2642 (94%)	158 (6%)	18 (1%)	21	59
1	F	2818/3089 (91%)	2642 (94%)	157 (6%)	19 (1%)	18	56
All	All	16908/18534 (91%)	15849 (94%)	947 (6%)	112 (1%)	20	56

All (112) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	930	PRO
1	A	1148	GLU
1	A	2428	PRO
1	A	2436	PRO
1	A	2446	PRO
1	A	2448	PRO
1	B	930	PRO
1	B	1148	GLU
1	B	2428	PRO
1	B	2436	PRO
1	B	2446	PRO
1	B	2448	PRO
1	C	930	PRO
1	C	1148	GLU
1	C	2428	PRO
1	C	2436	PRO
1	C	2446	PRO
1	C	2448	PRO
1	D	930	PRO
1	D	1148	GLU
1	D	2428	PRO
1	D	2436	PRO
1	D	2446	PRO
1	D	2448	PRO
1	E	930	PRO
1	E	1148	GLU
1	E	2428	PRO
1	E	2436	PRO
1	E	2446	PRO
1	E	2448	PRO
1	F	930	PRO
1	F	1148	GLU

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Mol	Chain	Res	Type
1	F	2428	PRO
1	F	2436	PRO
1	F	2446	PRO
1	F	2448	PRO
1	A	990	PRO
1	A	1009	PRO
1	B	990	PRO
1	B	1009	PRO
1	C	990	PRO
1	C	1009	PRO
1	D	990	PRO
1	D	1009	PRO
1	E	990	PRO
1	E	1009	PRO
1	F	990	PRO
1	F	1009	PRO
1	A	1724	TYR
1	B	1724	TYR
1	C	1724	TYR
1	D	1724	TYR
1	E	1724	TYR
1	F	1724	TYR
1	A	149	ALA
1	A	1205	ASP
1	A	1652	TRP
1	A	1705	VAL
1	B	149	ALA
1	B	1205	ASP
1	B	1652	TRP
1	B	1705	VAL
1	C	149	ALA
1	C	1205	ASP
1	C	1652	TRP
1	C	1705	VAL
1	D	149	ALA
1	D	1205	ASP
1	D	1652	TRP
1	D	1705	VAL
1	E	149	ALA
1	E	1205	ASP
1	E	1652	TRP
1	E	1705	VAL

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Mol	Chain	Res	Type
1	F	149	ALA
1	F	1205	ASP
1	F	1652	TRP
1	F	1705	VAL
1	A	89	GLU
1	A	1221	PRO
1	A	2444	PRO
1	B	89	GLU
1	B	1221	PRO
1	B	2444	PRO
1	C	89	GLU
1	C	1221	PRO
1	C	2444	PRO
1	D	89	GLU
1	D	1221	PRO
1	D	2444	PRO
1	E	89	GLU
1	E	1221	PRO
1	E	2444	PRO
1	F	89	GLU
1	F	1221	PRO
1	F	2444	PRO
1	A	1068	VAL
1	A	1285	LYS
1	B	1068	VAL
1	B	1285	LYS
1	C	1068	VAL
1	C	1285	LYS
1	D	1068	VAL
1	D	1285	LYS
1	E	1068	VAL
1	E	1285	LYS
1	F	1068	VAL
1	F	1285	LYS
1	B	2585	PRO
1	C	2585	PRO
1	D	2585	PRO
1	F	2585	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	2094/2402 (87%)	1958 (94%)	136 (6%)	15	37
1	B	2097/2402 (87%)	1961 (94%)	136 (6%)	15	37
1	C	2094/2402 (87%)	1958 (94%)	136 (6%)	15	37
1	D	2093/2402 (87%)	1957 (94%)	136 (6%)	15	37
1	E	2095/2402 (87%)	1959 (94%)	136 (6%)	15	37
1	F	2094/2402 (87%)	1958 (94%)	136 (6%)	15	37
All	All	12567/14412 (87%)	11751 (94%)	816 (6%)	17	37

All (816) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	62	LEU
1	A	90	LEU
1	A	207	MET
1	A	208	VAL
1	A	209	SER
1	A	232	VAL
1	A	233	LEU
1	A	248	ILE
1	A	251	THR
1	A	290	VAL
1	A	342	GLU
1	A	344	HIS
1	A	358	ASP
1	A	361	THR
1	A	373	ILE
1	A	376	VAL
1	A	389	THR
1	A	390	VAL
1	A	393	VAL
1	A	422	THR
1	A	424	LEU
1	A	436	THR

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Mol	Chain	Res	Type
1	A	439	THR
1	A	456	GLU
1	A	517	ILE
1	A	544	ILE
1	A	580	ARG
1	A	584	HIS
1	A	595	LEU
1	A	621	SER
1	A	638	MET
1	A	641	ASP
1	A	654	GLU
1	A	694	ASP
1	A	696	HIS
1	A	745	THR
1	A	791	GLU
1	A	857	VAL
1	A	898	VAL
1	A	930	PRO
1	A	990	PRO
1	A	1009	PRO
1	A	1021	LEU
1	A	1070	VAL
1	A	1083	VAL
1	A	1086	THR
1	A	1096	THR
1	A	1105	ARG
1	A	1125	VAL
1	A	1127	GLU
1	A	1162	THR
1	A	1206	PRO
1	A	1221	PRO
1	A	1228	VAL
1	A	1253	ARG
1	A	1280	THR
1	A	1358	GLN
1	A	1401	THR
1	A	1404	ILE
1	A	1416	VAL
1	A	1421	GLN
1	A	1423	THR
1	A	1467	VAL
1	A	1468	TYR

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Mol	Chain	Res	Type
1	A	1471	GLU
1	A	1477	VAL
1	A	1488	VAL
1	A	1508	ILE
1	A	1544	ILE
1	A	1551	LEU
1	A	1564	ILE
1	A	1585	VAL
1	A	1618	LEU
1	A	1651	THR
1	A	1662	ARG
1	A	1672	GLN
1	A	1673	PHE
1	A	1699	ARG
1	A	1703	ILE
1	A	1711	VAL
1	A	1745	ASP
1	A	2007	VAL
1	A	2067	LEU
1	A	2070	LEU
1	A	2129	PRO
1	A	2192	THR
1	A	2196	VAL
1	A	2209	LEU
1	A	2252	VAL
1	A	2294	SER
1	A	2299	MET
1	A	2303	ASP
1	A	2311	SER
1	A	2352	ILE
1	A	2361	VAL
1	A	2395	THR
1	A	2401	ILE
1	A	2405	MET
1	A	2428	PRO
1	A	2436	PRO
1	A	2438	PRO
1	A	2439	PRO
1	A	2444	PRO
1	A	2446	PRO
1	A	2448	PRO
1	A	2521	VAL

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Mol	Chain	Res	Type
1	A	2549	ILE
1	A	2582	GLN
1	A	2619	ARG
1	A	2620	THR
1	A	2692	MET
1	A	2709	ILE
1	A	2742	THR
1	A	2762	VAL
1	A	2784	THR
1	A	2790	MET
1	A	2800	PHE
1	A	2802	ARG
1	A	2809	LEU
1	A	2827	LEU
1	A	2861	LEU
1	A	2871	THR
1	A	2879	LEU
1	A	2894	THR
1	A	2916	ARG
1	A	2930	LEU
1	A	2935	LYS
1	A	2962	ASP
1	A	2975	VAL
1	A	2977	VAL
1	A	3001	HIS
1	A	3005	LEU
1	A	3019	ASP
1	A	3076	SER
1	A	3077	THR
1	A	3080	ARG
1	B	62	LEU
1	B	90	LEU
1	B	207	MET
1	B	208	VAL
1	B	209	SER
1	B	232	VAL
1	B	233	LEU
1	B	248	ILE
1	B	251	THR
1	B	290	VAL
1	B	342	GLU
1	B	344	HIS

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Mol	Chain	Res	Type
1	B	358	ASP
1	B	361	THR
1	B	373	ILE
1	B	376	VAL
1	B	389	THR
1	B	390	VAL
1	B	393	VAL
1	B	422	THR
1	B	424	LEU
1	B	436	THR
1	B	439	THR
1	B	456	GLU
1	B	517	ILE
1	B	544	ILE
1	B	580	ARG
1	B	584	HIS
1	B	595	LEU
1	B	621	SER
1	B	638	MET
1	B	641	ASP
1	B	654	GLU
1	B	694	ASP
1	B	696	HIS
1	B	745	THR
1	B	791	GLU
1	B	857	VAL
1	B	898	VAL
1	B	930	PRO
1	B	990	PRO
1	B	1009	PRO
1	B	1021	LEU
1	B	1070	VAL
1	B	1083	VAL
1	B	1086	THR
1	B	1096	THR
1	B	1105	ARG
1	B	1125	VAL
1	B	1127	GLU
1	B	1162	THR
1	B	1206	PRO
1	B	1221	PRO
1	B	1228	VAL

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Mol	Chain	Res	Type
1	B	1253	ARG
1	B	1280	THR
1	B	1358	GLN
1	B	1401	THR
1	B	1404	ILE
1	B	1416	VAL
1	B	1421	GLN
1	B	1423	THR
1	B	1467	VAL
1	B	1468	TYR
1	B	1471	GLU
1	B	1477	VAL
1	B	1488	VAL
1	B	1508	ILE
1	B	1544	ILE
1	B	1551	LEU
1	B	1564	ILE
1	B	1585	VAL
1	B	1618	LEU
1	B	1651	THR
1	B	1662	ARG
1	B	1672	GLN
1	B	1673	PHE
1	B	1699	ARG
1	B	1703	ILE
1	B	1711	VAL
1	B	1745	ASP
1	B	2007	VAL
1	B	2067	LEU
1	B	2070	LEU
1	B	2129	PRO
1	B	2192	THR
1	B	2196	VAL
1	B	2209	LEU
1	B	2252	VAL
1	B	2294	SER
1	B	2299	MET
1	B	2303	ASP
1	B	2311	SER
1	B	2352	ILE
1	B	2361	VAL
1	B	2395	THR

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Mol	Chain	Res	Type
1	B	2401	ILE
1	B	2405	MET
1	B	2428	PRO
1	B	2436	PRO
1	B	2438	PRO
1	B	2439	PRO
1	B	2444	PRO
1	B	2446	PRO
1	B	2448	PRO
1	B	2521	VAL
1	B	2549	ILE
1	B	2582	GLN
1	B	2619	ARG
1	B	2620	THR
1	B	2692	MET
1	B	2709	ILE
1	B	2742	THR
1	B	2762	VAL
1	B	2784	THR
1	B	2790	MET
1	B	2800	PHE
1	B	2802	ARG
1	B	2809	LEU
1	B	2827	LEU
1	B	2861	LEU
1	B	2871	THR
1	B	2879	LEU
1	B	2894	THR
1	B	2916	ARG
1	B	2930	LEU
1	B	2935	LYS
1	B	2962	ASP
1	B	2975	VAL
1	B	2977	VAL
1	B	3001	HIS
1	B	3005	LEU
1	B	3019	ASP
1	B	3076	SER
1	B	3077	THR
1	B	3080	ARG
1	C	62	LEU
1	C	90	LEU

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Mol	Chain	Res	Type
1	C	207	MET
1	C	208	VAL
1	C	209	SER
1	C	232	VAL
1	C	233	LEU
1	C	248	ILE
1	C	251	THR
1	C	290	VAL
1	C	342	GLU
1	C	344	HIS
1	C	358	ASP
1	C	361	THR
1	C	373	ILE
1	C	376	VAL
1	C	389	THR
1	C	390	VAL
1	C	393	VAL
1	C	422	THR
1	C	424	LEU
1	C	436	THR
1	C	439	THR
1	C	456	GLU
1	C	517	ILE
1	C	544	ILE
1	C	580	ARG
1	C	584	HIS
1	C	595	LEU
1	C	621	SER
1	C	638	MET
1	C	641	ASP
1	C	654	GLU
1	C	694	ASP
1	C	696	HIS
1	C	745	THR
1	C	791	GLU
1	C	857	VAL
1	C	898	VAL
1	C	930	PRO
1	C	990	PRO
1	C	1009	PRO
1	C	1021	LEU
1	C	1070	VAL

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Mol	Chain	Res	Type
1	C	1083	VAL
1	C	1086	THR
1	C	1096	THR
1	C	1105	ARG
1	C	1125	VAL
1	C	1127	GLU
1	C	1162	THR
1	C	1206	PRO
1	C	1221	PRO
1	C	1228	VAL
1	C	1253	ARG
1	C	1280	THR
1	C	1358	GLN
1	C	1401	THR
1	C	1404	ILE
1	C	1416	VAL
1	C	1421	GLN
1	C	1423	THR
1	C	1467	VAL
1	C	1468	TYR
1	C	1471	GLU
1	C	1477	VAL
1	C	1488	VAL
1	C	1508	ILE
1	C	1544	ILE
1	C	1551	LEU
1	C	1564	ILE
1	C	1585	VAL
1	C	1618	LEU
1	C	1651	THR
1	C	1662	ARG
1	C	1672	GLN
1	C	1673	PHE
1	C	1699	ARG
1	C	1703	ILE
1	C	1711	VAL
1	C	1745	ASP
1	C	2007	VAL
1	C	2067	LEU
1	C	2070	LEU
1	C	2129	PRO
1	C	2192	THR

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Mol	Chain	Res	Type
1	C	2196	VAL
1	C	2209	LEU
1	C	2252	VAL
1	C	2294	SER
1	C	2299	MET
1	C	2303	ASP
1	C	2311	SER
1	C	2352	ILE
1	C	2361	VAL
1	C	2395	THR
1	C	2401	ILE
1	C	2405	MET
1	C	2428	PRO
1	C	2436	PRO
1	C	2438	PRO
1	C	2439	PRO
1	C	2444	PRO
1	C	2446	PRO
1	C	2448	PRO
1	C	2521	VAL
1	C	2549	ILE
1	C	2582	GLN
1	C	2619	ARG
1	C	2620	THR
1	C	2692	MET
1	C	2709	ILE
1	C	2742	THR
1	C	2762	VAL
1	C	2784	THR
1	C	2790	MET
1	C	2800	PHE
1	C	2802	ARG
1	C	2809	LEU
1	C	2827	LEU
1	C	2861	LEU
1	C	2871	THR
1	C	2879	LEU
1	C	2894	THR
1	C	2916	ARG
1	C	2930	LEU
1	C	2935	LYS
1	C	2962	ASP

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Mol	Chain	Res	Type
1	C	2975	VAL
1	C	2977	VAL
1	C	3001	HIS
1	C	3005	LEU
1	C	3019	ASP
1	C	3076	SER
1	C	3077	THR
1	C	3080	ARG
1	D	62	LEU
1	D	90	LEU
1	D	207	MET
1	D	208	VAL
1	D	209	SER
1	D	232	VAL
1	D	233	LEU
1	D	248	ILE
1	D	251	THR
1	D	290	VAL
1	D	342	GLU
1	D	344	HIS
1	D	358	ASP
1	D	361	THR
1	D	373	ILE
1	D	376	VAL
1	D	389	THR
1	D	390	VAL
1	D	393	VAL
1	D	422	THR
1	D	424	LEU
1	D	436	THR
1	D	439	THR
1	D	456	GLU
1	D	517	ILE
1	D	544	ILE
1	D	580	ARG
1	D	584	HIS
1	D	595	LEU
1	D	621	SER
1	D	638	MET
1	D	641	ASP
1	D	654	GLU
1	D	694	ASP

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Mol	Chain	Res	Type
1	D	696	HIS
1	D	745	THR
1	D	791	GLU
1	D	857	VAL
1	D	898	VAL
1	D	930	PRO
1	D	990	PRO
1	D	1009	PRO
1	D	1021	LEU
1	D	1070	VAL
1	D	1083	VAL
1	D	1086	THR
1	D	1096	THR
1	D	1105	ARG
1	D	1125	VAL
1	D	1127	GLU
1	D	1162	THR
1	D	1206	PRO
1	D	1221	PRO
1	D	1228	VAL
1	D	1253	ARG
1	D	1280	THR
1	D	1358	GLN
1	D	1401	THR
1	D	1404	ILE
1	D	1416	VAL
1	D	1421	GLN
1	D	1423	THR
1	D	1467	VAL
1	D	1468	TYR
1	D	1471	GLU
1	D	1477	VAL
1	D	1488	VAL
1	D	1508	ILE
1	D	1544	ILE
1	D	1551	LEU
1	D	1564	ILE
1	D	1585	VAL
1	D	1618	LEU
1	D	1651	THR
1	D	1662	ARG
1	D	1672	GLN

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Mol	Chain	Res	Type
1	D	1673	PHE
1	D	1699	ARG
1	D	1703	ILE
1	D	1711	VAL
1	D	1745	ASP
1	D	2007	VAL
1	D	2067	LEU
1	D	2070	LEU
1	D	2129	PRO
1	D	2192	THR
1	D	2196	VAL
1	D	2209	LEU
1	D	2252	VAL
1	D	2294	SER
1	D	2299	MET
1	D	2303	ASP
1	D	2311	SER
1	D	2352	ILE
1	D	2361	VAL
1	D	2395	THR
1	D	2401	ILE
1	D	2405	MET
1	D	2428	PRO
1	D	2436	PRO
1	D	2438	PRO
1	D	2439	PRO
1	D	2444	PRO
1	D	2446	PRO
1	D	2448	PRO
1	D	2521	VAL
1	D	2549	ILE
1	D	2582	GLN
1	D	2619	ARG
1	D	2620	THR
1	D	2692	MET
1	D	2709	ILE
1	D	2742	THR
1	D	2762	VAL
1	D	2784	THR
1	D	2790	MET
1	D	2800	PHE
1	D	2802	ARG

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Mol	Chain	Res	Type
1	D	2809	LEU
1	D	2827	LEU
1	D	2861	LEU
1	D	2871	THR
1	D	2879	LEU
1	D	2894	THR
1	D	2916	ARG
1	D	2930	LEU
1	D	2935	LYS
1	D	2962	ASP
1	D	2975	VAL
1	D	2977	VAL
1	D	3001	HIS
1	D	3005	LEU
1	D	3019	ASP
1	D	3076	SER
1	D	3077	THR
1	D	3080	ARG
1	E	62	LEU
1	E	90	LEU
1	E	207	MET
1	E	208	VAL
1	E	209	SER
1	E	232	VAL
1	E	233	LEU
1	E	248	ILE
1	E	251	THR
1	E	290	VAL
1	E	342	GLU
1	E	344	HIS
1	E	358	ASP
1	E	361	THR
1	E	373	ILE
1	E	376	VAL
1	E	389	THR
1	E	390	VAL
1	E	393	VAL
1	E	422	THR
1	E	424	LEU
1	E	436	THR
1	E	439	THR
1	E	456	GLU

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Mol	Chain	Res	Type
1	E	517	ILE
1	E	544	ILE
1	E	580	ARG
1	E	584	HIS
1	E	595	LEU
1	E	621	SER
1	E	638	MET
1	E	641	ASP
1	E	654	GLU
1	E	694	ASP
1	E	696	HIS
1	E	745	THR
1	E	791	GLU
1	E	857	VAL
1	E	898	VAL
1	E	930	PRO
1	E	990	PRO
1	E	1009	PRO
1	E	1021	LEU
1	E	1070	VAL
1	E	1083	VAL
1	E	1086	THR
1	E	1096	THR
1	E	1105	ARG
1	E	1125	VAL
1	E	1127	GLU
1	E	1162	THR
1	E	1206	PRO
1	E	1221	PRO
1	E	1228	VAL
1	E	1253	ARG
1	E	1280	THR
1	E	1358	GLN
1	E	1401	THR
1	E	1404	ILE
1	E	1416	VAL
1	E	1421	GLN
1	E	1423	THR
1	E	1467	VAL
1	E	1468	TYR
1	E	1471	GLU
1	E	1477	VAL

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Mol	Chain	Res	Type
1	E	1488	VAL
1	E	1508	ILE
1	E	1544	ILE
1	E	1551	LEU
1	E	1564	ILE
1	E	1585	VAL
1	E	1618	LEU
1	E	1651	THR
1	E	1662	ARG
1	E	1672	GLN
1	E	1673	PHE
1	E	1699	ARG
1	E	1703	ILE
1	E	1711	VAL
1	E	1745	ASP
1	E	2007	VAL
1	E	2067	LEU
1	E	2070	LEU
1	E	2129	PRO
1	E	2192	THR
1	E	2196	VAL
1	E	2209	LEU
1	E	2252	VAL
1	E	2294	SER
1	E	2299	MET
1	E	2303	ASP
1	E	2311	SER
1	E	2352	ILE
1	E	2361	VAL
1	E	2395	THR
1	E	2401	ILE
1	E	2405	MET
1	E	2428	PRO
1	E	2436	PRO
1	E	2438	PRO
1	E	2439	PRO
1	E	2444	PRO
1	E	2446	PRO
1	E	2448	PRO
1	E	2521	VAL
1	E	2549	ILE
1	E	2582	GLN

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Mol	Chain	Res	Type
1	E	2619	ARG
1	E	2620	THR
1	E	2692	MET
1	E	2709	ILE
1	E	2742	THR
1	E	2762	VAL
1	E	2784	THR
1	E	2790	MET
1	E	2800	PHE
1	E	2802	ARG
1	E	2809	LEU
1	E	2827	LEU
1	E	2861	LEU
1	E	2871	THR
1	E	2879	LEU
1	E	2894	THR
1	E	2916	ARG
1	E	2930	LEU
1	E	2935	LYS
1	E	2962	ASP
1	E	2975	VAL
1	E	2977	VAL
1	E	3001	HIS
1	E	3005	LEU
1	E	3019	ASP
1	E	3076	SER
1	E	3077	THR
1	E	3080	ARG
1	F	62	LEU
1	F	90	LEU
1	F	207	MET
1	F	208	VAL
1	F	209	SER
1	F	232	VAL
1	F	233	LEU
1	F	248	ILE
1	F	251	THR
1	F	290	VAL
1	F	342	GLU
1	F	344	HIS
1	F	358	ASP
1	F	361	THR

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Mol	Chain	Res	Type
1	F	373	ILE
1	F	376	VAL
1	F	389	THR
1	F	390	VAL
1	F	393	VAL
1	F	422	THR
1	F	424	LEU
1	F	436	THR
1	F	439	THR
1	F	456	GLU
1	F	517	ILE
1	F	544	ILE
1	F	580	ARG
1	F	584	HIS
1	F	595	LEU
1	F	621	SER
1	F	638	MET
1	F	641	ASP
1	F	654	GLU
1	F	694	ASP
1	F	696	HIS
1	F	745	THR
1	F	791	GLU
1	F	857	VAL
1	F	898	VAL
1	F	930	PRO
1	F	990	PRO
1	F	1009	PRO
1	F	1021	LEU
1	F	1070	VAL
1	F	1083	VAL
1	F	1086	THR
1	F	1096	THR
1	F	1105	ARG
1	F	1125	VAL
1	F	1127	GLU
1	F	1162	THR
1	F	1206	PRO
1	F	1221	PRO
1	F	1228	VAL
1	F	1253	ARG
1	F	1280	THR

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Mol	Chain	Res	Type
1	F	1358	GLN
1	F	1401	THR
1	F	1404	ILE
1	F	1416	VAL
1	F	1421	GLN
1	F	1423	THR
1	F	1467	VAL
1	F	1468	TYR
1	F	1471	GLU
1	F	1477	VAL
1	F	1488	VAL
1	F	1508	ILE
1	F	1544	ILE
1	F	1551	LEU
1	F	1564	ILE
1	F	1585	VAL
1	F	1618	LEU
1	F	1651	THR
1	F	1662	ARG
1	F	1672	GLN
1	F	1673	PHE
1	F	1699	ARG
1	F	1703	ILE
1	F	1711	VAL
1	F	1745	ASP
1	F	2007	VAL
1	F	2067	LEU
1	F	2070	LEU
1	F	2129	PRO
1	F	2192	THR
1	F	2196	VAL
1	F	2209	LEU
1	F	2252	VAL
1	F	2294	SER
1	F	2299	MET
1	F	2303	ASP
1	F	2311	SER
1	F	2352	ILE
1	F	2361	VAL
1	F	2395	THR
1	F	2401	ILE
1	F	2405	MET

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Mol	Chain	Res	Type
1	F	2428	PRO
1	F	2436	PRO
1	F	2438	PRO
1	F	2439	PRO
1	F	2444	PRO
1	F	2446	PRO
1	F	2448	PRO
1	F	2521	VAL
1	F	2549	ILE
1	F	2582	GLN
1	F	2619	ARG
1	F	2620	THR
1	F	2692	MET
1	F	2709	ILE
1	F	2742	THR
1	F	2762	VAL
1	F	2784	THR
1	F	2790	MET
1	F	2800	PHE
1	F	2802	ARG
1	F	2809	LEU
1	F	2827	LEU
1	F	2861	LEU
1	F	2871	THR
1	F	2879	LEU
1	F	2894	THR
1	F	2916	ARG
1	F	2930	LEU
1	F	2935	LYS
1	F	2962	ASP
1	F	2975	VAL
1	F	2977	VAL
1	F	3001	HIS
1	F	3005	LEU
1	F	3019	ASP
1	F	3076	SER
1	F	3077	THR
1	F	3080	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (150) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	486	GLN
1	A	540	ASN
1	A	585	HIS
1	A	606	ASN
1	A	633	HIS
1	A	1057	ASN
1	A	1134	HIS
1	A	1276	GLN
1	A	1277	HIS
1	A	1355	GLN
1	A	1421	GLN
1	A	1534	ASN
1	A	1617	ASN
1	A	1672	GLN
1	A	2288	HIS
1	A	2334	HIS
1	A	2587	HIS
1	A	2651	ASN
1	A	2815	GLN
1	A	2850	HIS
1	A	2927	GLN
1	A	2942	GLN
1	A	2973	HIS
1	B	386	ASN
1	B	486	GLN
1	B	540	ASN
1	B	585	HIS
1	B	606	ASN
1	B	633	HIS
1	B	1057	ASN
1	B	1134	HIS
1	B	1276	GLN
1	B	1277	HIS
1	B	1355	GLN
1	B	1421	GLN
1	B	1534	ASN
1	B	1617	ASN
1	B	1672	GLN
1	B	2288	HIS
1	B	2296	ASN
1	B	2334	HIS
1	B	2587	HIS
1	B	2651	ASN

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Mol	Chain	Res	Type
1	B	2815	GLN
1	B	2850	HIS
1	B	2927	GLN
1	B	2942	GLN
1	B	2973	HIS
1	C	386	ASN
1	C	486	GLN
1	C	540	ASN
1	C	585	HIS
1	C	606	ASN
1	C	633	HIS
1	C	1057	ASN
1	C	1134	HIS
1	C	1276	GLN
1	C	1277	HIS
1	C	1355	GLN
1	C	1421	GLN
1	C	1534	ASN
1	C	1617	ASN
1	C	1672	GLN
1	C	2288	HIS
1	C	2296	ASN
1	C	2334	HIS
1	C	2587	HIS
1	C	2651	ASN
1	C	2815	GLN
1	C	2850	HIS
1	C	2927	GLN
1	C	2942	GLN
1	C	2973	HIS
1	D	386	ASN
1	D	486	GLN
1	D	512	GLN
1	D	540	ASN
1	D	585	HIS
1	D	606	ASN
1	D	633	HIS
1	D	1057	ASN
1	D	1134	HIS
1	D	1276	GLN
1	D	1277	HIS
1	D	1355	GLN

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Mol	Chain	Res	Type
1	D	1421	GLN
1	D	1534	ASN
1	D	1617	ASN
1	D	1672	GLN
1	D	2288	HIS
1	D	2296	ASN
1	D	2334	HIS
1	D	2587	HIS
1	D	2651	ASN
1	D	2815	GLN
1	D	2850	HIS
1	D	2927	GLN
1	D	2942	GLN
1	D	2973	HIS
1	E	486	GLN
1	E	512	GLN
1	E	540	ASN
1	E	575	HIS
1	E	585	HIS
1	E	606	ASN
1	E	633	HIS
1	E	1057	ASN
1	E	1134	HIS
1	E	1276	GLN
1	E	1277	HIS
1	E	1355	GLN
1	E	1421	GLN
1	E	1534	ASN
1	E	1617	ASN
1	E	1672	GLN
1	E	2288	HIS
1	E	2296	ASN
1	E	2334	HIS
1	E	2587	HIS
1	E	2651	ASN
1	E	2815	GLN
1	E	2850	HIS
1	E	2927	GLN
1	E	2942	GLN
1	E	2973	HIS
1	F	386	ASN
1	F	486	GLN

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Mol	Chain	Res	Type
1	F	540	ASN
1	F	585	HIS
1	F	606	ASN
1	F	633	HIS
1	F	1057	ASN
1	F	1134	HIS
1	F	1276	GLN
1	F	1277	HIS
1	F	1355	GLN
1	F	1421	GLN
1	F	1534	ASN
1	F	1617	ASN
1	F	1672	GLN
1	F	2288	HIS
1	F	2296	ASN
1	F	2334	HIS
1	F	2587	HIS
1	F	2651	ASN
1	F	2815	GLN
1	F	2850	HIS
1	F	2927	GLN
1	F	2942	GLN
1	F	2973	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](#)

6 ligands are modelled in this entry.

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	$\# Z > 2$
2	FMN	A	4000	-	33,33,33	1.03	2 (6%)	48,50,50	1.28	7 (14%)
2	FMN	F	4000	-	33,33,33	1.04	2 (6%)	48,50,50	1.28	7 (14%)
2	FMN	E	4000	-	33,33,33	1.04	2 (6%)	48,50,50	1.29	7 (14%)
2	FMN	D	4000	-	33,33,33	1.05	2 (6%)	48,50,50	1.29	9 (18%)
2	FMN	B	4000	-	33,33,33	1.04	2 (6%)	48,50,50	1.28	8 (16%)
2	FMN	C	4000	-	33,33,33	1.04	2 (6%)	48,50,50	1.29	9 (18%)

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
2	FMN	A	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	F	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	E	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	D	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	B	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	C	4000	-	-	5/18/18/18	0/3/3/3

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	4000	FMN	C4A-N5	3.72	1.38	1.30
2	F	4000	FMN	C4A-N5	3.71	1.38	1.30
2	E	4000	FMN	C4A-N5	3.69	1.38	1.30
2	A	4000	FMN	C4A-N5	3.68	1.38	1.30
2	D	4000	FMN	C4A-N5	3.67	1.38	1.30
2	C	4000	FMN	C4A-N5	3.67	1.38	1.30
2	C	4000	FMN	C10-N1	2.33	1.37	1.33
2	E	4000	FMN	C10-N1	2.29	1.37	1.33
2	D	4000	FMN	C10-N1	2.27	1.37	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	4000	FMN	C10-N1	2.24	1.37	1.33
2	F	4000	FMN	C10-N1	2.23	1.37	1.33
2	A	4000	FMN	C10-N1	2.21	1.37	1.33

All (47) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	4000	FMN	C4-N3-C2	-3.14	120.06	125.64
2	C	4000	FMN	C4-N3-C2	-3.11	120.12	125.64
2	E	4000	FMN	C4-N3-C2	-3.10	120.13	125.64
2	D	4000	FMN	C4-N3-C2	-3.10	120.13	125.64
2	B	4000	FMN	C4-N3-C2	-3.09	120.15	125.64
2	A	4000	FMN	C4-N3-C2	-3.09	120.16	125.64
2	E	4000	FMN	C4A-C10-N10	3.03	120.82	116.48
2	C	4000	FMN	C4A-C10-N10	3.00	120.78	116.48
2	D	4000	FMN	C4A-C10-N10	2.98	120.75	116.48
2	A	4000	FMN	C4A-C10-N10	2.98	120.74	116.48
2	F	4000	FMN	C4A-C10-N10	2.95	120.71	116.48
2	B	4000	FMN	C4A-C10-N10	2.95	120.70	116.48
2	E	4000	FMN	C10-C4A-N5	-2.68	119.34	124.81
2	D	4000	FMN	C10-C4A-N5	-2.66	119.38	124.81
2	A	4000	FMN	C10-C4A-N5	-2.65	119.41	124.81
2	B	4000	FMN	C10-C4A-N5	-2.63	119.44	124.81
2	C	4000	FMN	C10-C4A-N5	-2.62	119.45	124.81
2	F	4000	FMN	C10-C4A-N5	-2.61	119.47	124.81
2	B	4000	FMN	C4A-C4-N3	2.58	119.82	113.25
2	C	4000	FMN	C4A-C4-N3	2.58	119.81	113.25
2	D	4000	FMN	C4A-C4-N3	2.58	119.81	113.25
2	F	4000	FMN	C4A-C4-N3	2.58	119.81	113.25
2	E	4000	FMN	C4A-C4-N3	2.57	119.80	113.25
2	A	4000	FMN	C4A-C4-N3	2.57	119.79	113.25
2	D	4000	FMN	O4-C4-C4A	-2.43	120.13	126.53
2	E	4000	FMN	O4-C4-C4A	-2.40	120.19	126.53
2	B	4000	FMN	O4-C4-C4A	-2.40	120.19	126.53
2	F	4000	FMN	O4-C4-C4A	-2.39	120.22	126.53
2	C	4000	FMN	O4-C4-C4A	-2.39	120.23	126.53
2	A	4000	FMN	O4-C4-C4A	-2.38	120.26	126.53
2	E	4000	FMN	C4-C4A-N5	2.37	121.48	118.21
2	D	4000	FMN	C4-C4A-N5	2.37	121.47	118.21
2	B	4000	FMN	C4-C4A-N5	2.35	121.45	118.21
2	A	4000	FMN	C4-C4A-N5	2.34	121.44	118.21
2	D	4000	FMN	C9A-C5A-N5	-2.32	119.99	122.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	4000	FMN	C4-C4A-N5	2.32	121.41	118.21
2	C	4000	FMN	C9A-C5A-N5	-2.31	120.00	122.45
2	F	4000	FMN	C4-C4A-N5	2.29	121.37	118.21
2	F	4000	FMN	C9A-C5A-N5	-2.27	120.04	122.45
2	A	4000	FMN	C9A-C5A-N5	-2.24	120.08	122.45
2	B	4000	FMN	C9A-C5A-N5	-2.23	120.08	122.45
2	E	4000	FMN	C9A-C5A-N5	-2.20	120.12	122.45
2	C	4000	FMN	C5A-C9A-N10	2.07	119.84	117.97
2	D	4000	FMN	C5A-C9A-N10	2.04	119.81	117.97
2	B	4000	FMN	C5A-C9A-N10	2.02	119.79	117.97
2	D	4000	FMN	O2-C2-N1	-2.00	118.47	121.80
2	C	4000	FMN	O2-C2-N1	-2.00	118.47	121.80

There are no chirality outliers.

All (30) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	4000	FMN	O3'-C3'-C4'-C5'
2	B	4000	FMN	O3'-C3'-C4'-C5'
2	C	4000	FMN	O3'-C3'-C4'-C5'
2	D	4000	FMN	O3'-C3'-C4'-C5'
2	E	4000	FMN	O3'-C3'-C4'-C5'
2	F	4000	FMN	O3'-C3'-C4'-C5'
2	A	4000	FMN	C2'-C3'-C4'-C5'
2	B	4000	FMN	C2'-C3'-C4'-C5'
2	C	4000	FMN	C2'-C3'-C4'-C5'
2	D	4000	FMN	C2'-C3'-C4'-C5'
2	E	4000	FMN	C2'-C3'-C4'-C5'
2	F	4000	FMN	C2'-C3'-C4'-C5'
2	A	4000	FMN	C2'-C3'-C4'-O4'
2	B	4000	FMN	C2'-C3'-C4'-O4'
2	C	4000	FMN	C2'-C3'-C4'-O4'
2	D	4000	FMN	C2'-C3'-C4'-O4'
2	E	4000	FMN	C2'-C3'-C4'-O4'
2	F	4000	FMN	C2'-C3'-C4'-O4'
2	C	4000	FMN	O3'-C3'-C4'-O4'
2	A	4000	FMN	O3'-C3'-C4'-O4'
2	B	4000	FMN	O3'-C3'-C4'-O4'
2	D	4000	FMN	O3'-C3'-C4'-O4'
2	E	4000	FMN	O3'-C3'-C4'-O4'
2	F	4000	FMN	O3'-C3'-C4'-O4'
2	A	4000	FMN	C4'-C5'-O5'-P

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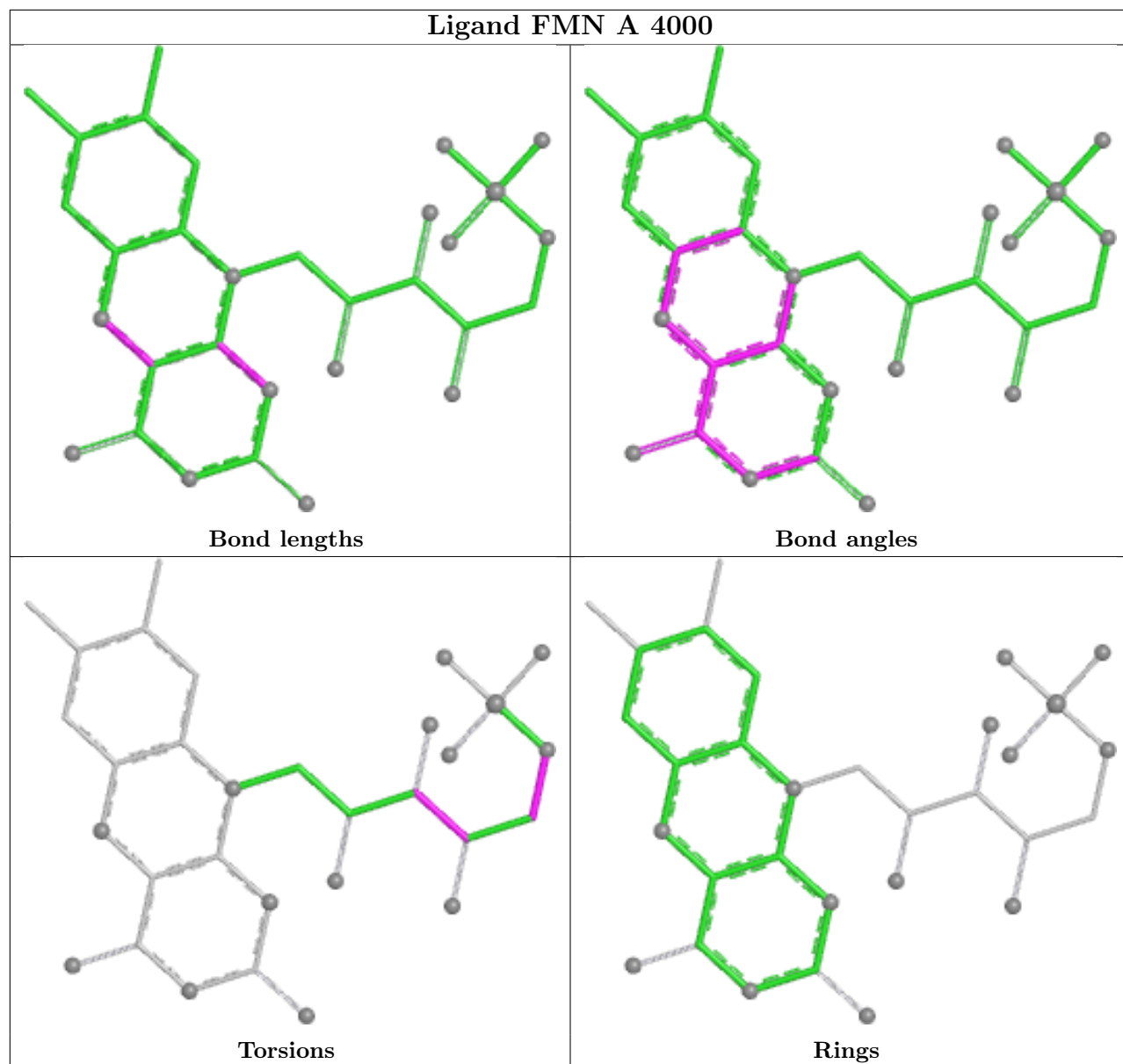
Mol	Chain	Res	Type	Atoms
2	B	4000	FMN	C4'-C5'-O5'-P
2	C	4000	FMN	C4'-C5'-O5'-P
2	D	4000	FMN	C4'-C5'-O5'-P
2	E	4000	FMN	C4'-C5'-O5'-P
2	F	4000	FMN	C4'-C5'-O5'-P

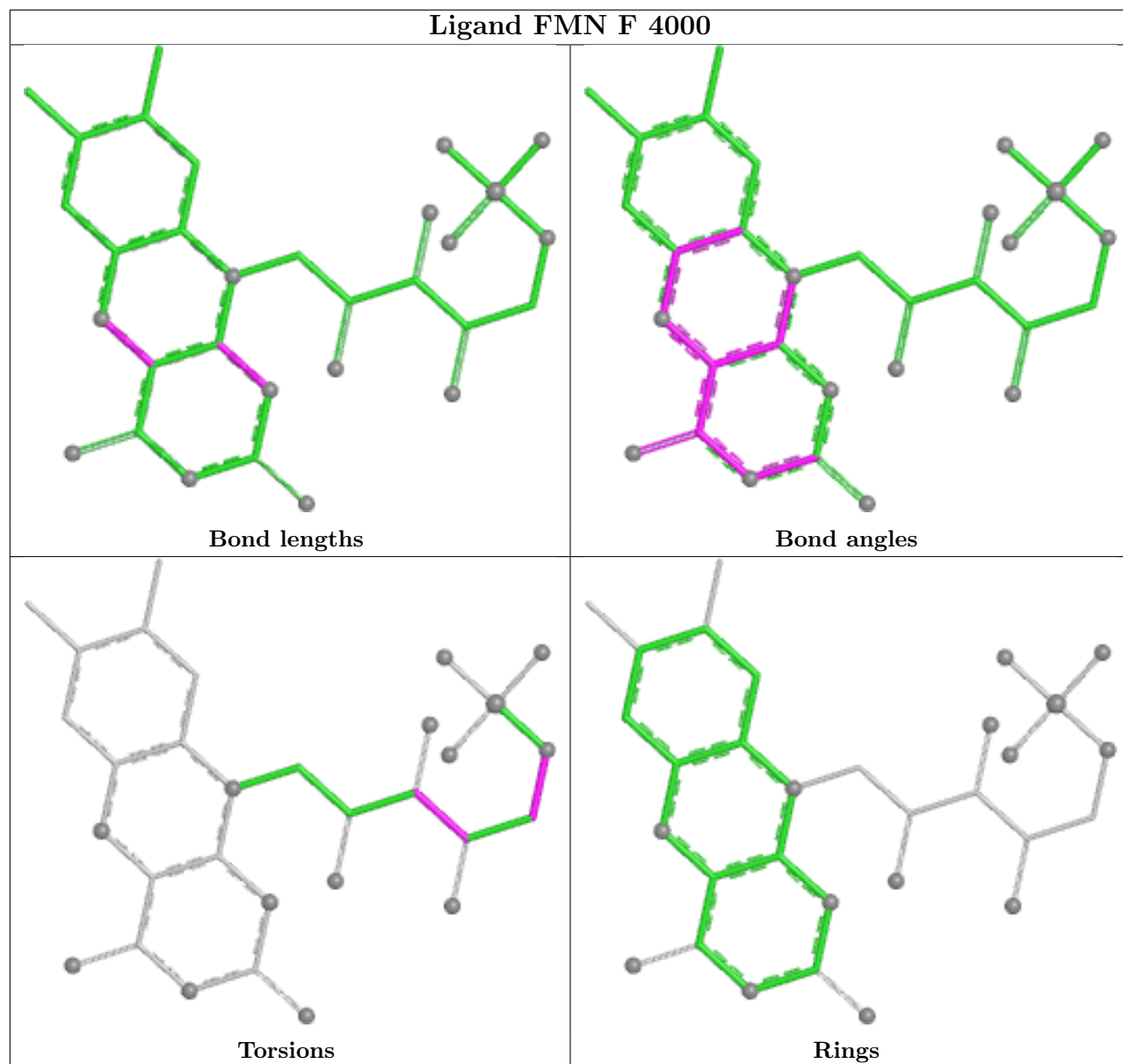
There are no ring outliers.

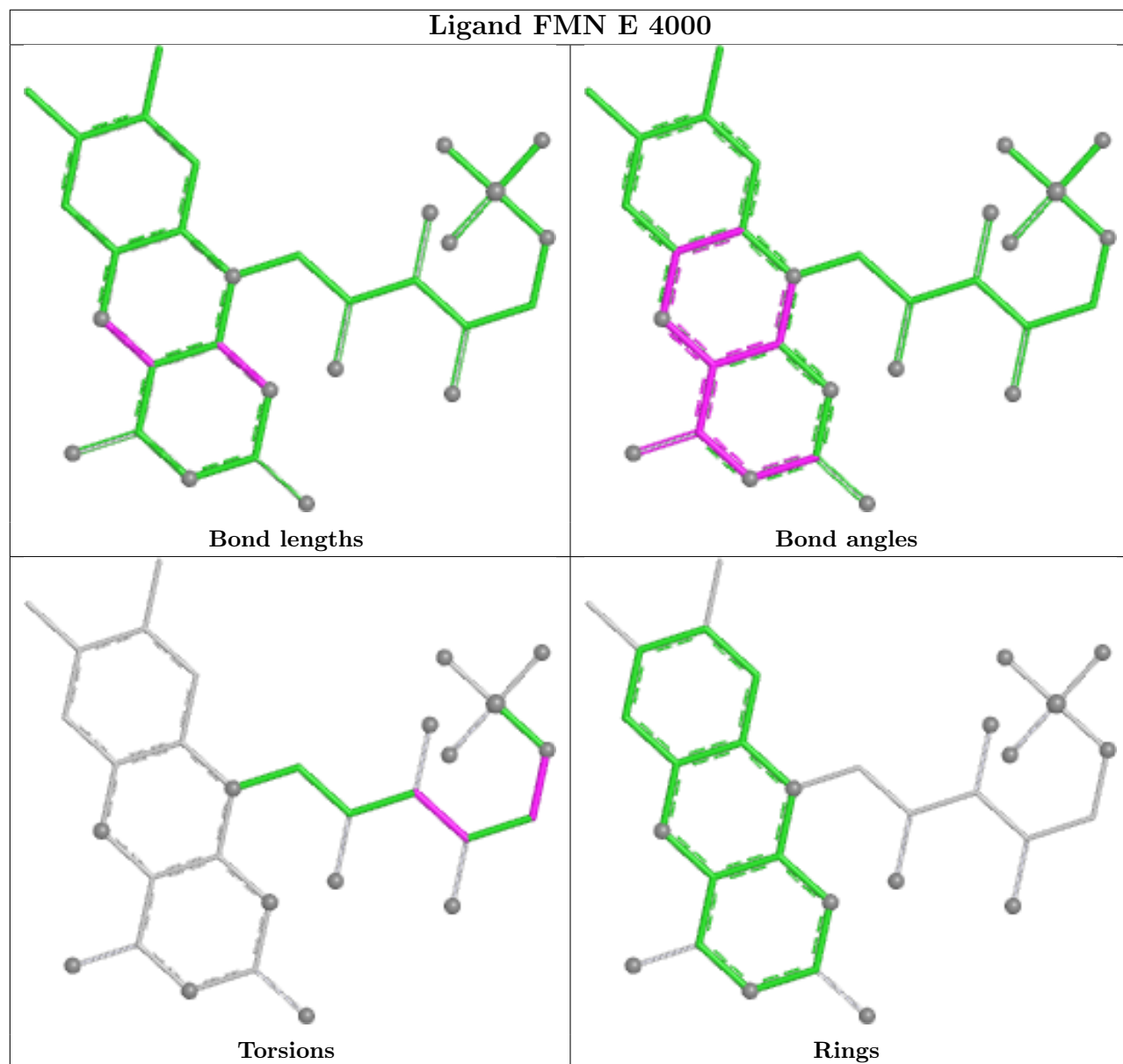
6 monomers are involved in 27 short contacts:

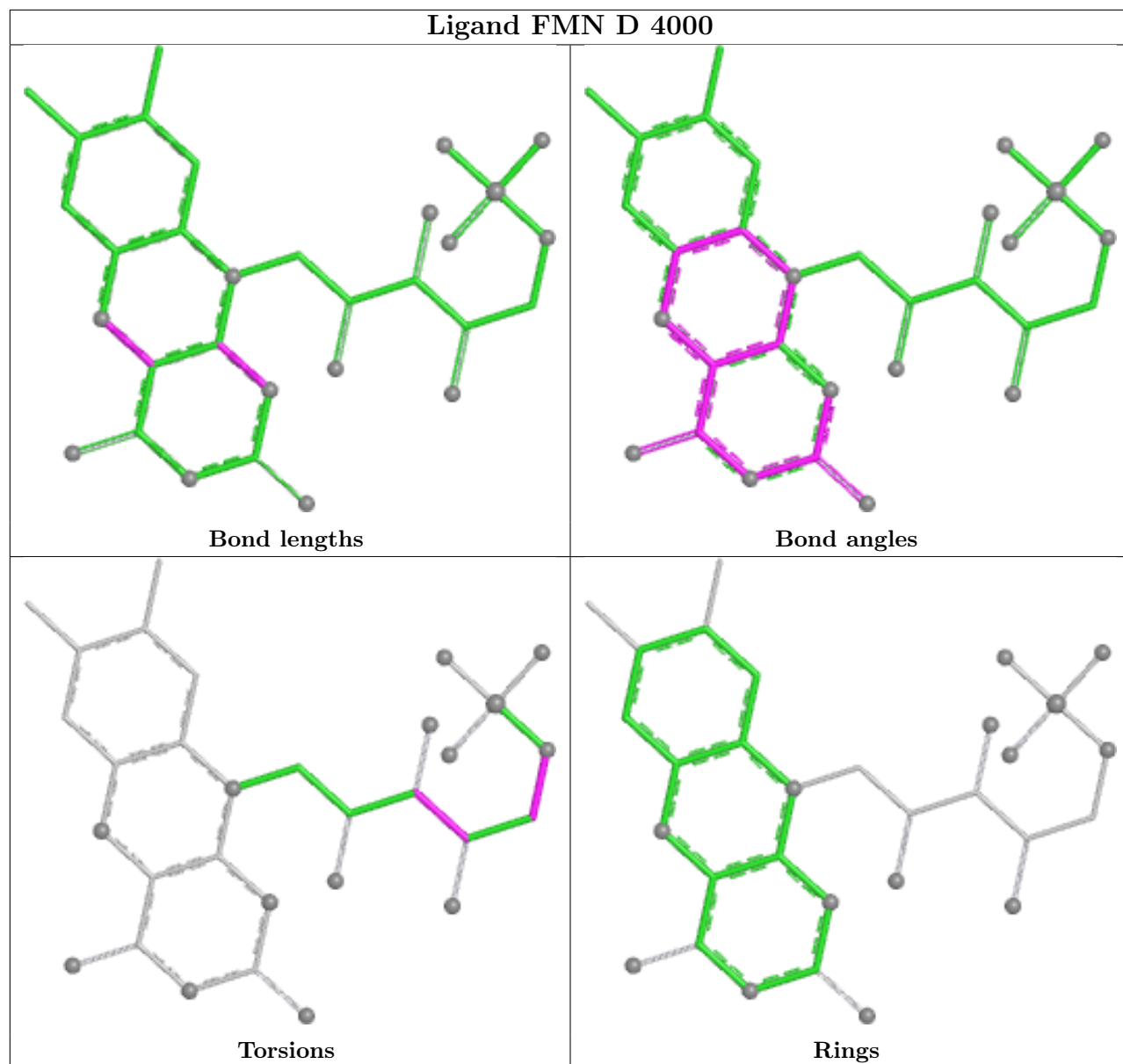
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	4000	FMN	4	0
2	F	4000	FMN	5	0
2	E	4000	FMN	4	0
2	D	4000	FMN	5	0
2	B	4000	FMN	5	0
2	C	4000	FMN	4	0

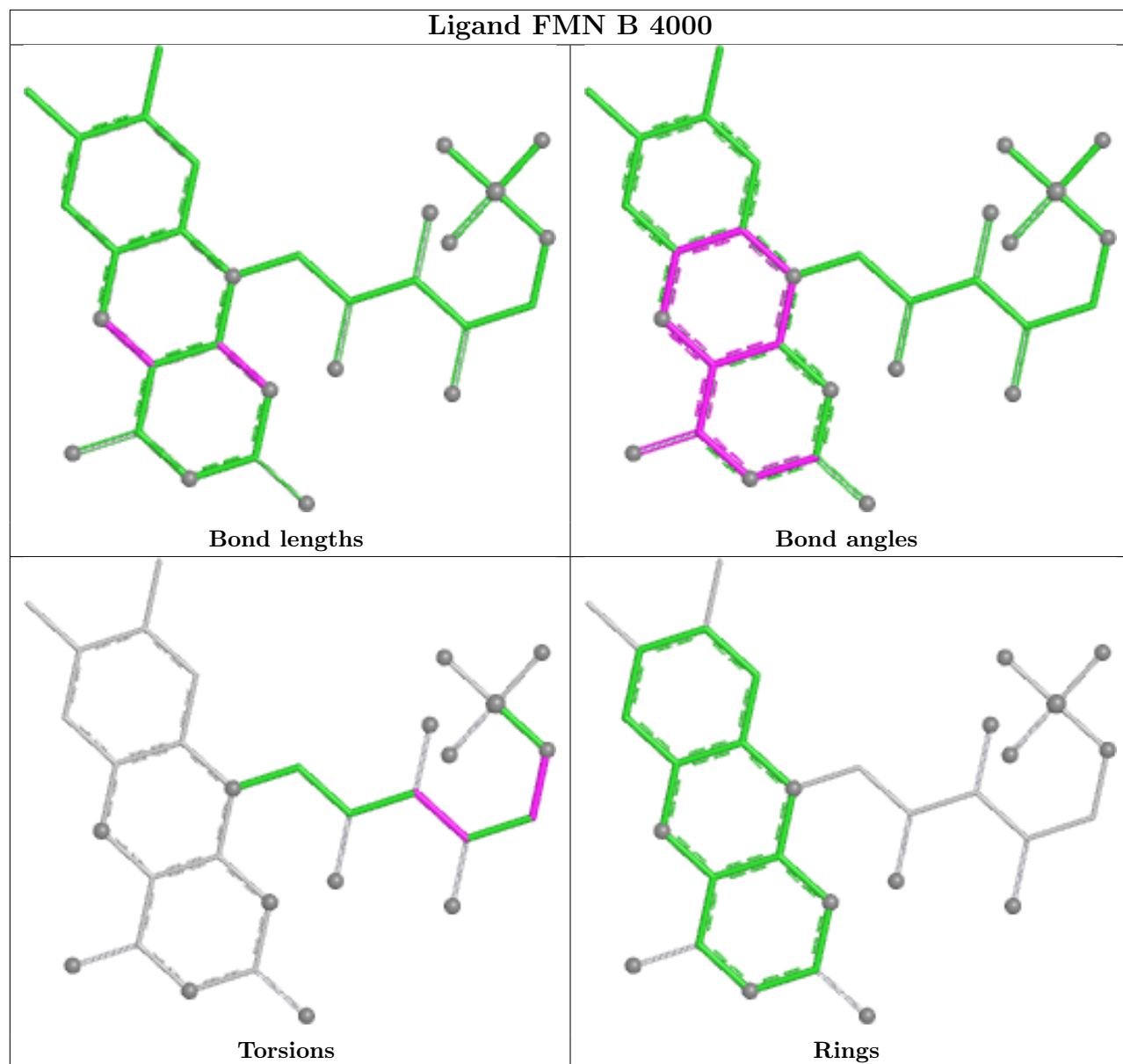
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

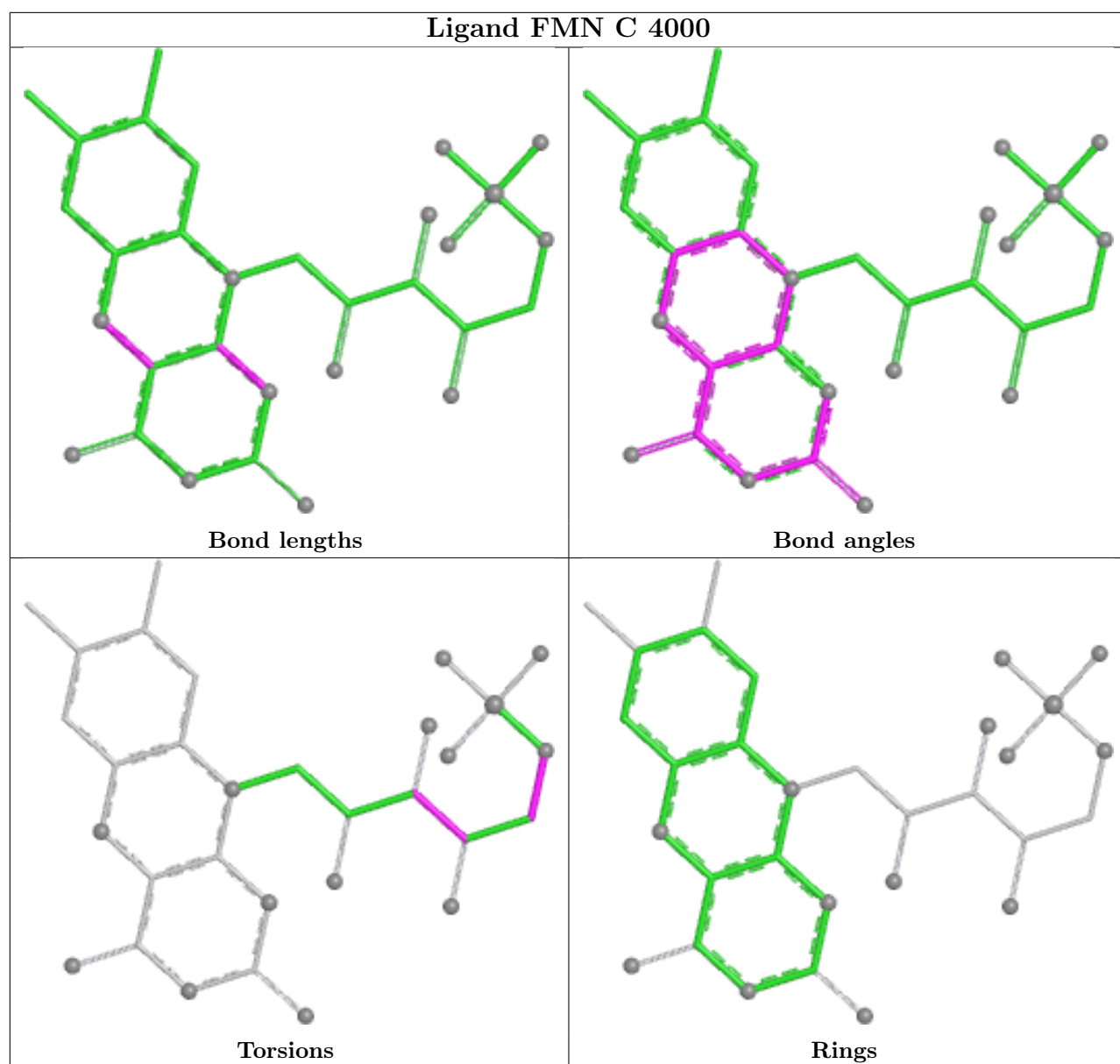












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

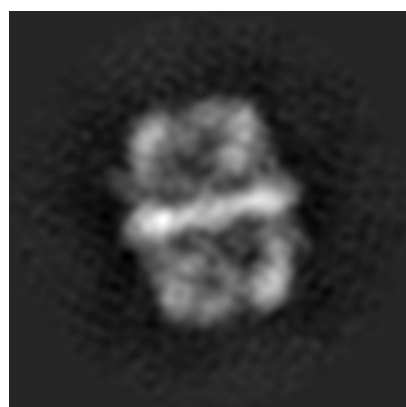
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2358. These allow visual inspection of the internal detail of the map and identification of artifacts.

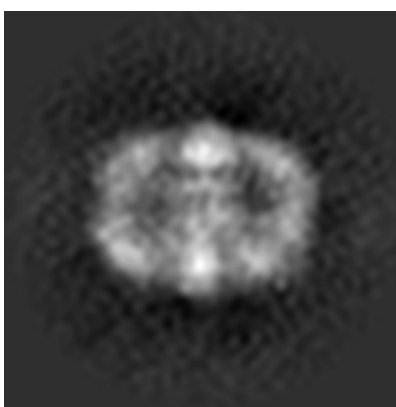
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

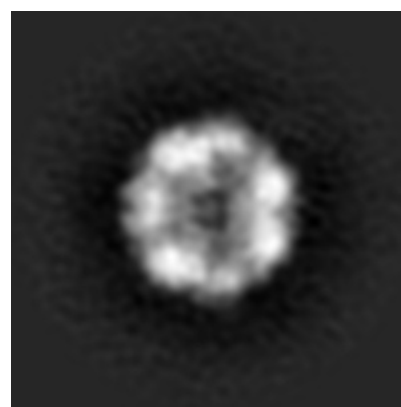
6.1.1 Primary map



X



Y

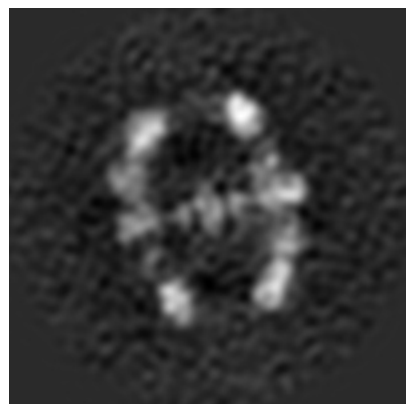


Z

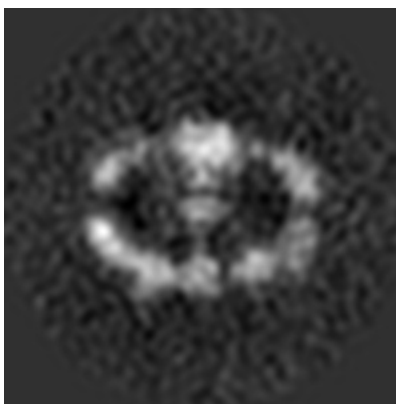
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

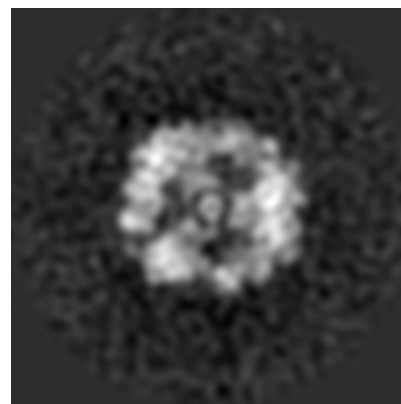
6.2.1 Primary map



X Index: 100



Y Index: 100

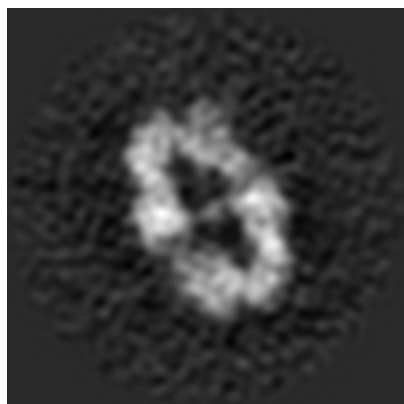


Z Index: 100

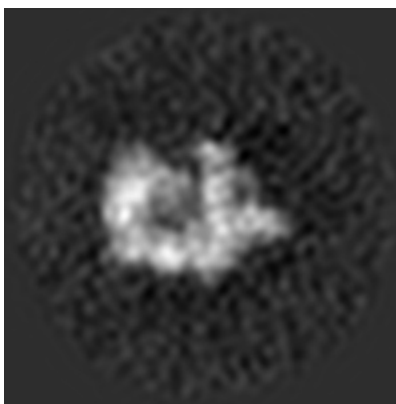
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

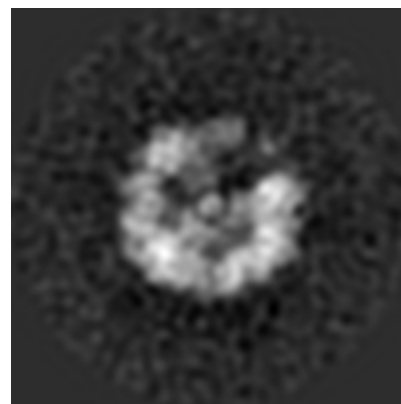
6.3.1 Primary map



X Index: 76



Y Index: 131

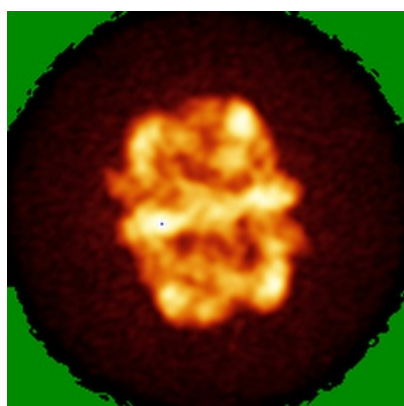


Z Index: 96

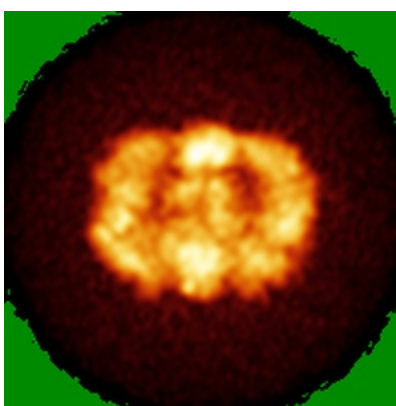
The images above show the largest variance slices of the map in three orthogonal directions.

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

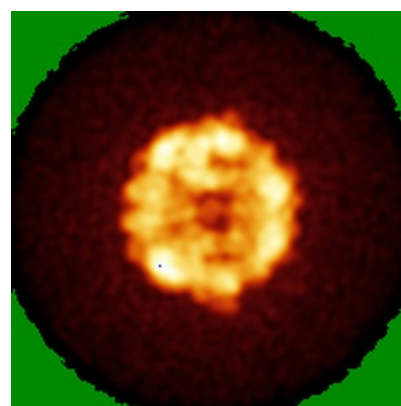
6.4.1 Primary map



X



Y

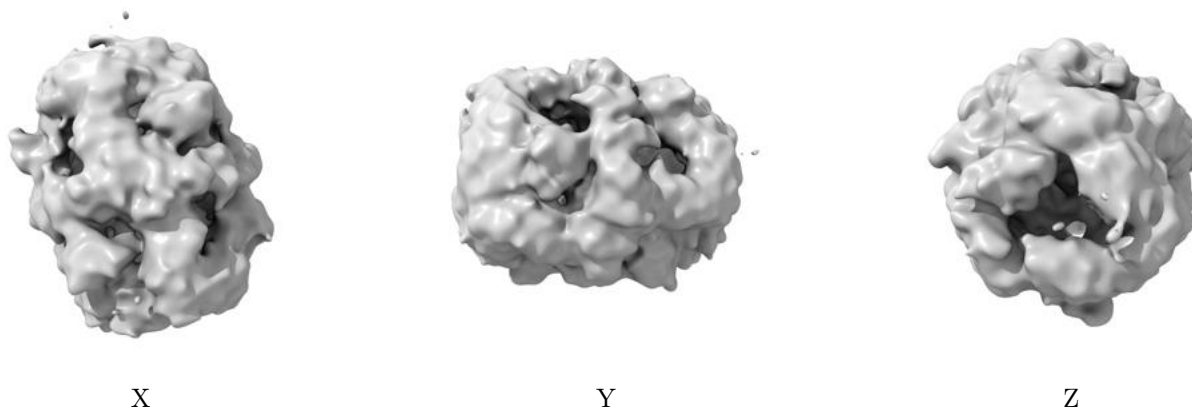


Z

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 1.8. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

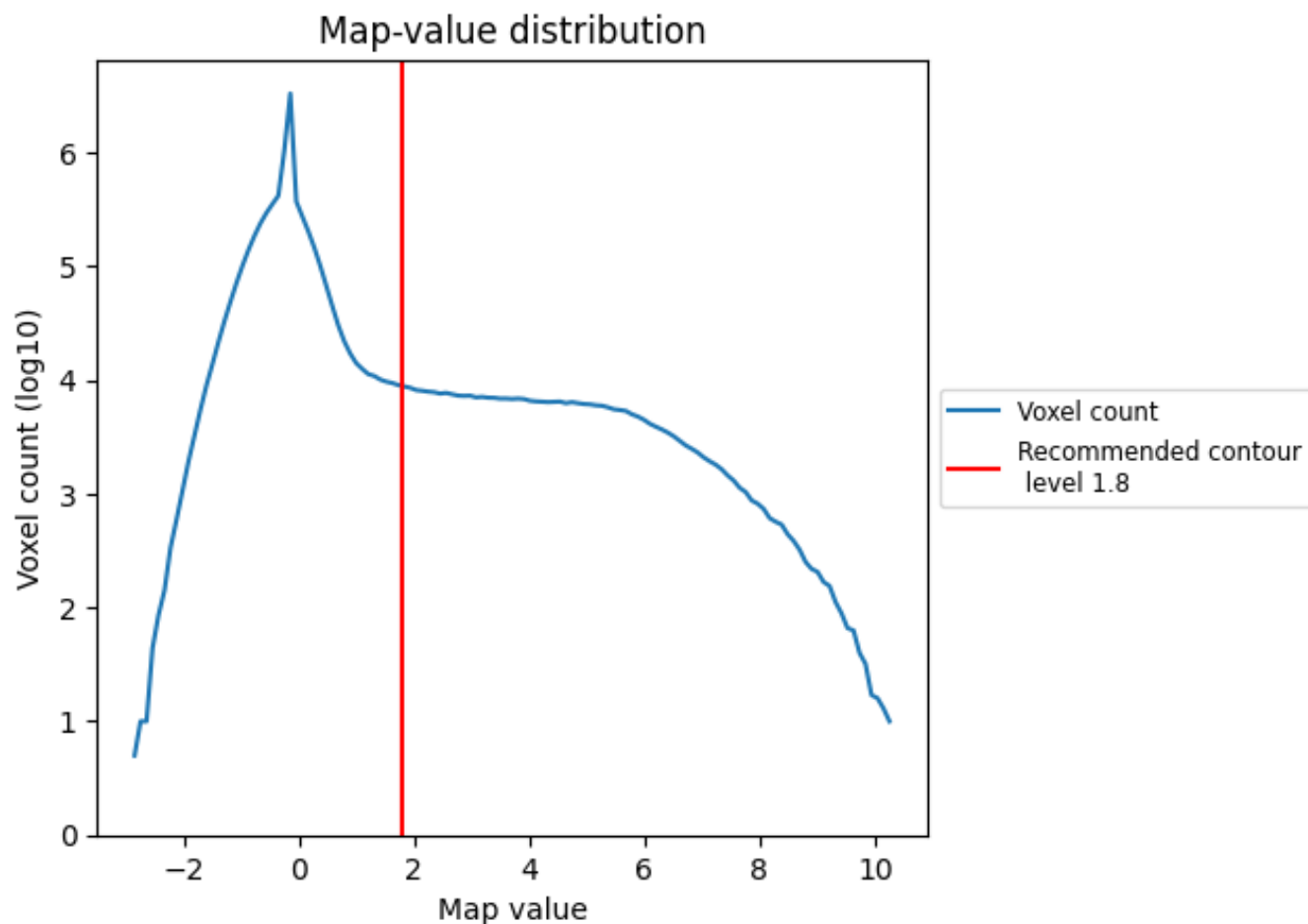
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

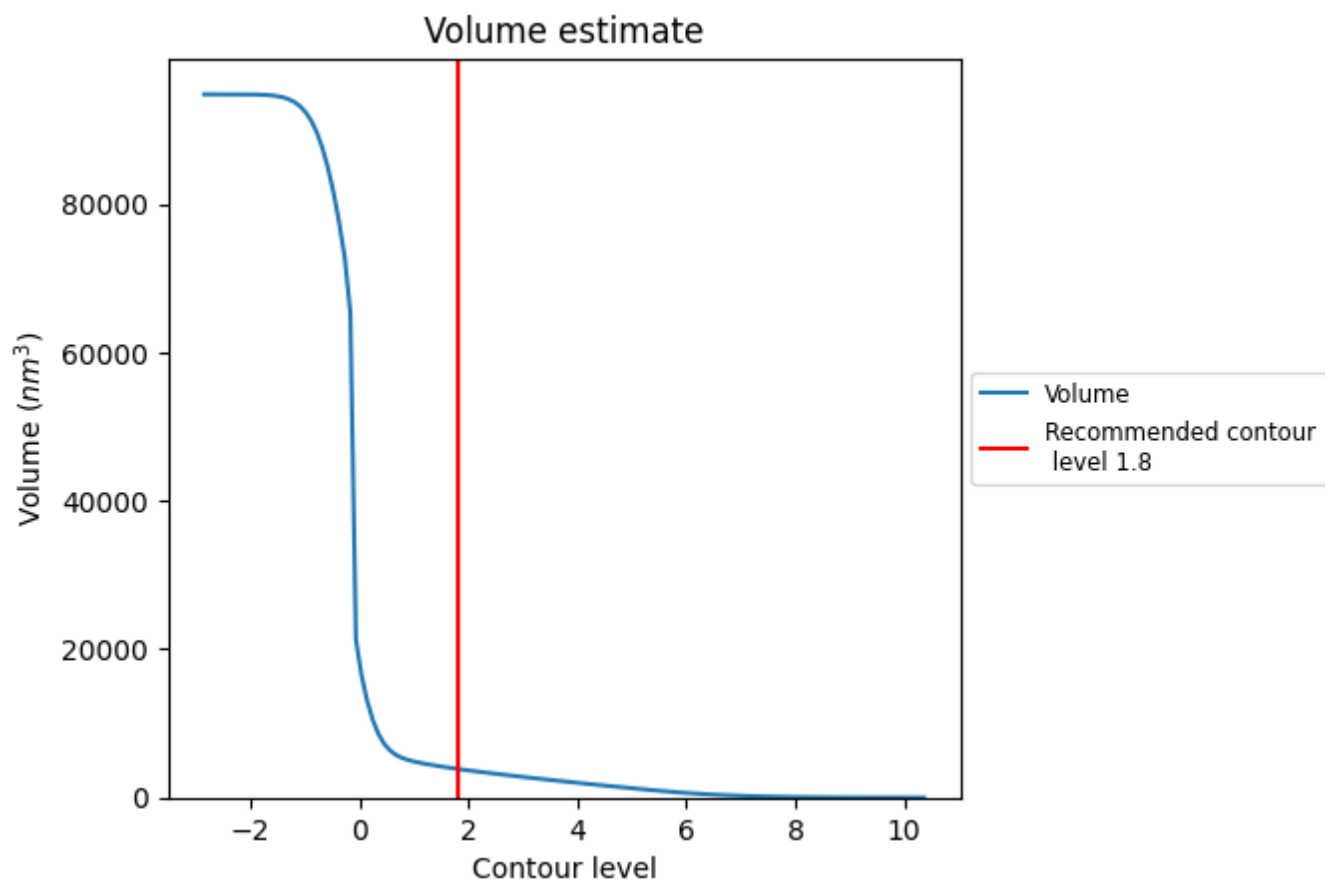
This section contains the results of statistical analysis of the map.

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.

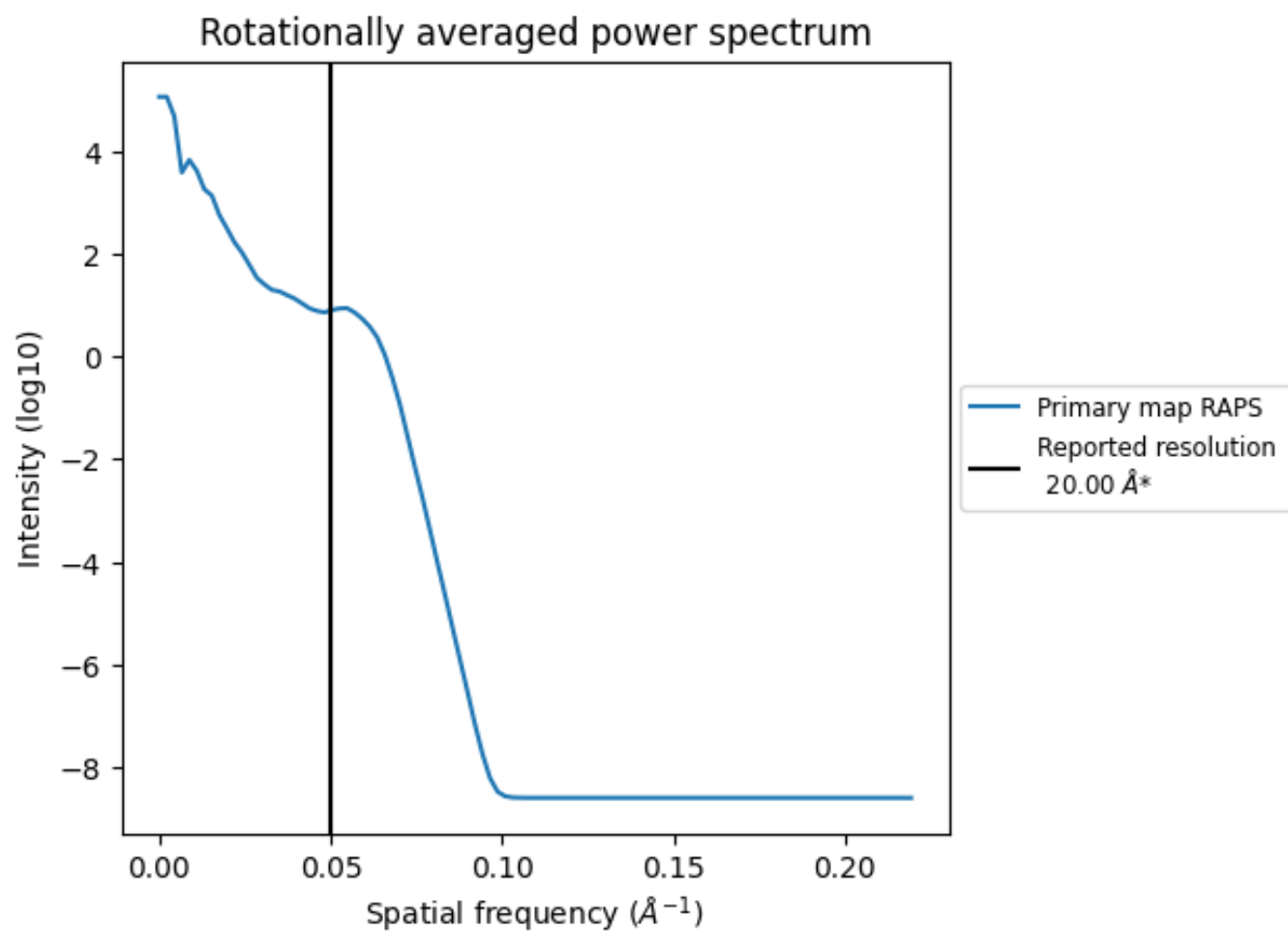
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3860 nm³; this corresponds to an approximate mass of 3487 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 ⓘ



*Reported resolution corresponds to spatial frequency of 0.050 Å⁻¹

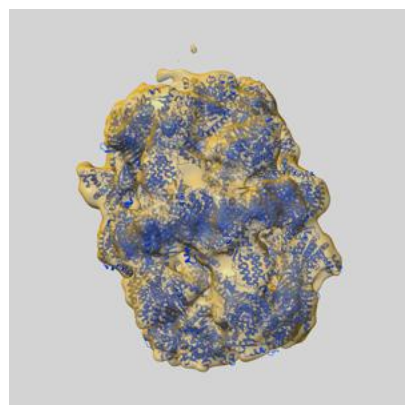
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

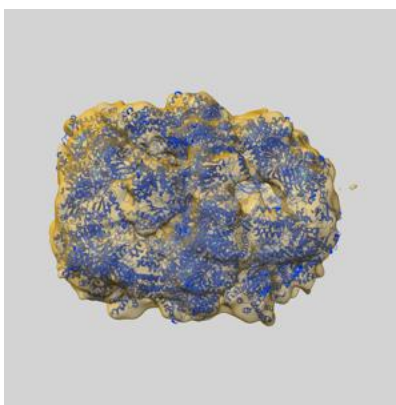
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-2358 and PDB model 4V8V. Per-residue inclusion information can be found in section [3](#) on page [6](#).

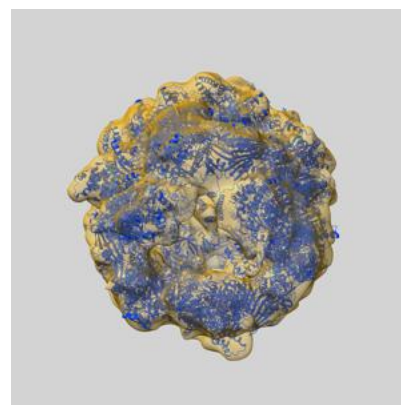
9.1 Map-model overlay [i](#)



X



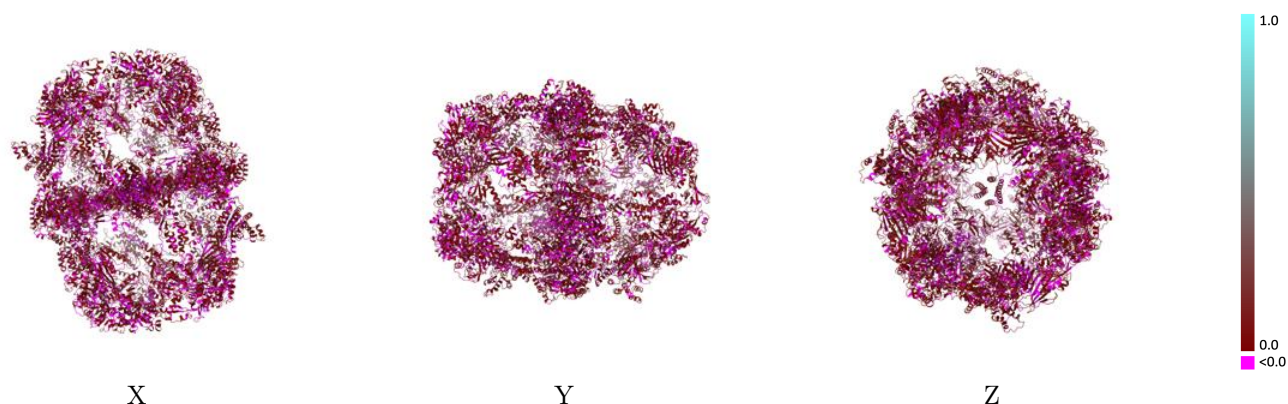
Y



Z

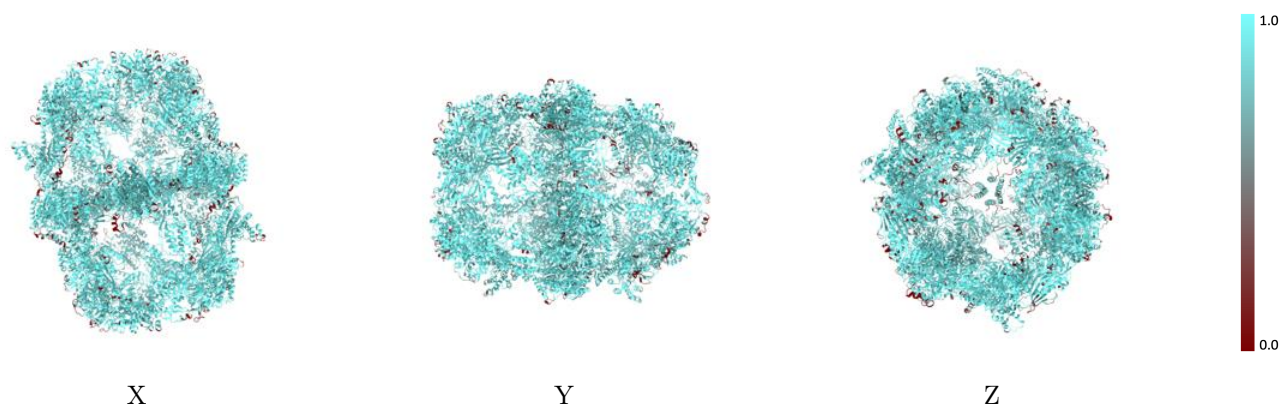
The images above show the 3D surface view of the map at the recommended contour level 1.8 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



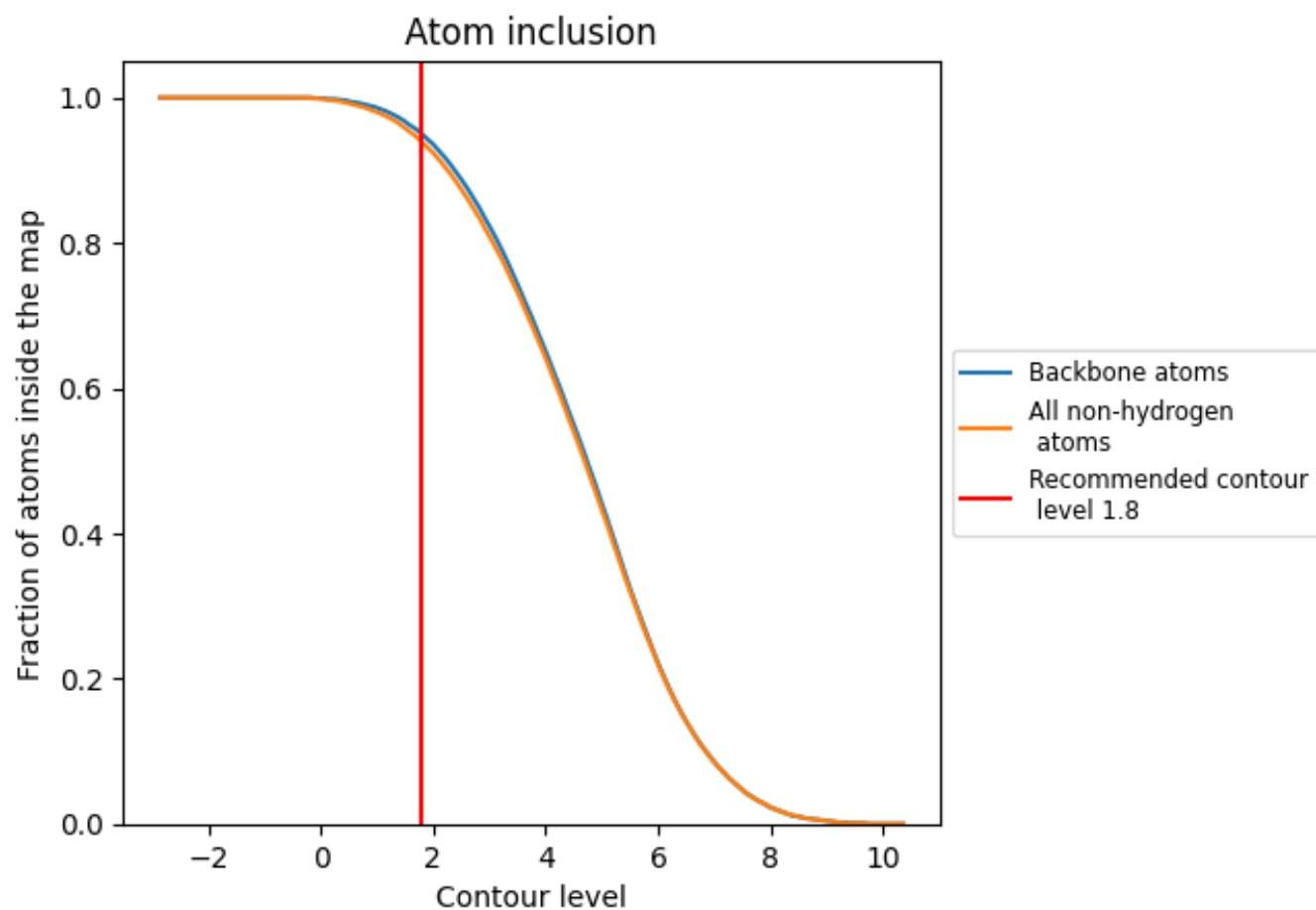
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (1.8).

9.4 Atom inclusion [i](#)



At the recommended contour level, 95% of all backbone atoms, 94% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (1.8) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9390	0.0500
A	0.9570	0.0520
B	0.9360	0.0450
C	0.9280	0.0440
D	0.9310	0.0490
E	0.9490	0.0560
F	0.9340	0.0520

1.0

0.0

<0.0