



Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Jul 24, 2017 – 02:50 PM EDT

PDB ID : 4V8W
EMDB ID: : EMD-2357
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 : unknown
Resolution : 17.50 Å(reported)
Based on PDB ID : 3ZEN

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

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

MolProbity : 4.02b-467
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20029824

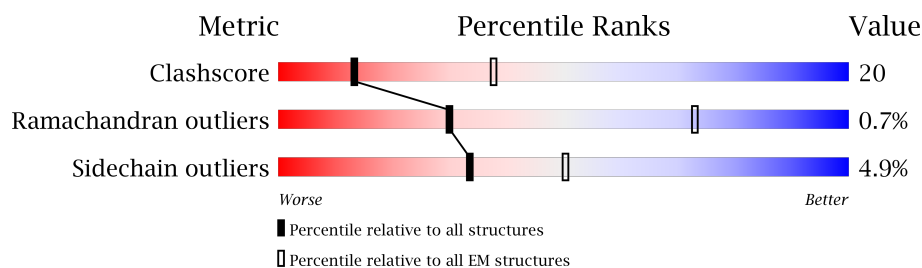
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 17.50 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	3089	
1	B	3089	
1	C	3089	
1	D	3089	
1	E	3089	
1	F	3089	

2 Entry composition [i](#)

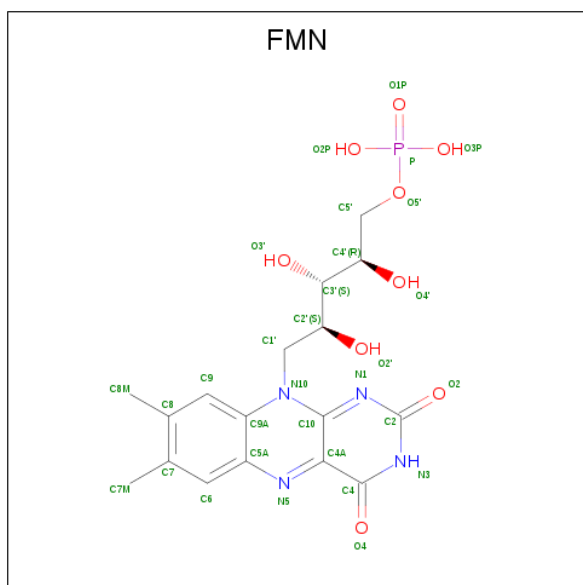
There are 2 unique types of molecules in this entry. The entry contains 123082 atoms, of which 0 are hydrogens and 0 are deuteriums.

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	D	2452	Total	C	N	O	S	0	0
			18171	11459	3176	3473	63		
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		
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		

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



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

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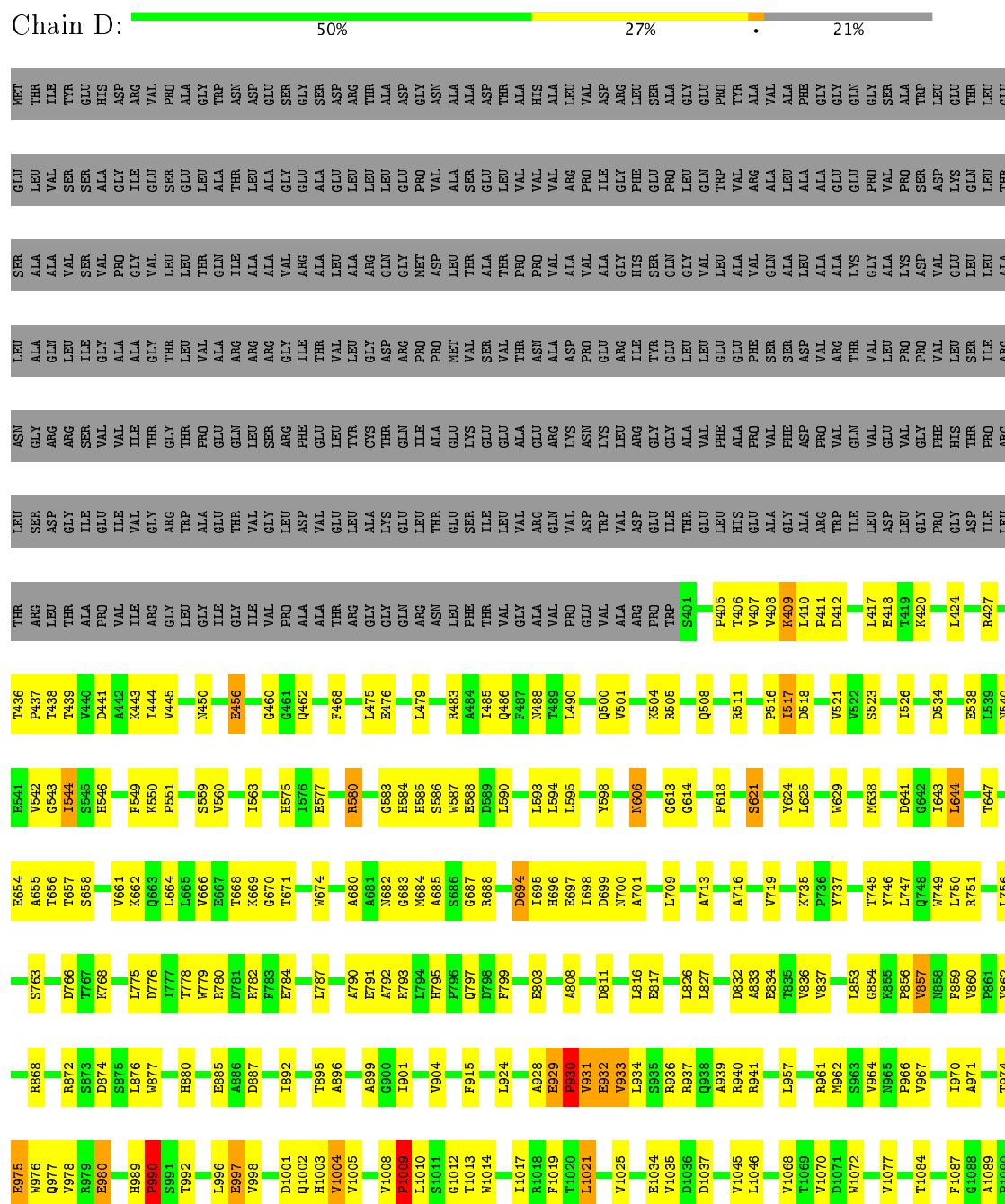
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Mol	Chain	Residues	Atoms					AltConf
2	E	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	F	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	A	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	B	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	C	1	Total	C	N	O	P	0
			31	17	4	9	1	

3 Residue-property plots

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

• Molecule 1: TYPE-I FATTY ACID SYNTHASE

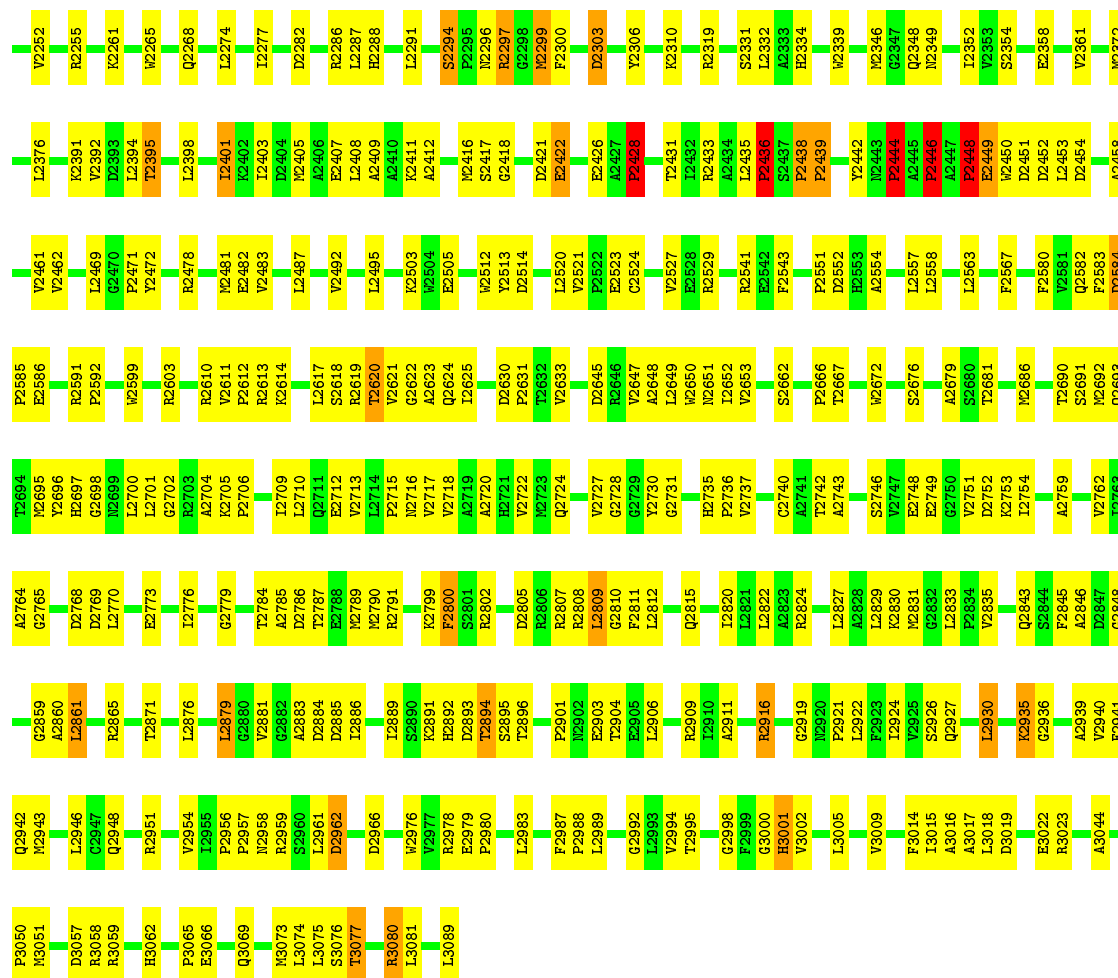


L2495	L2408	D2282	I2165	L2067	ALA	ILE	LEU	ALA	K1706	G1612	I1503	V1408	K1291	L1185	L1091
A2409	A2409	D2282	A2166	L2070	ALA	THR	GLY	PRO	S1707	R1613	I1504	V1408	K1292	L1188	A1092
A2412	A2412	R2286	T2167	E2074	ALA	ARG	GLU	ALA	T1710	P1616	P1505	H1412	K1304	L1188	P1093
M2416	M2416	H2288	R2170		ALA	VAL	ASN	PRO	A1711	R1617	Q1506	D1414	D1307	R1191	L1095
S2417	S2417		D2173		ARG	THR	LEU	SER	A1712	L1618	Q1507	G1415	Q1308	F1192	T1096
G2418	G2418		E2174		ARG	LYS	LEU	GLY	G1713	V1619	I1508	V1416	V1309	A1193	V1097
			ILE		GLY	THR	GLY	GLY	L1714	P1620	I1508	L1417	D1310	I1194	V1098
			TRP		ALA	ALA	ALA	PRO		R1621	D1511		F1311	R1195	P1099
			GLU		ALA	ASP	ILE	ARG	L1719	F1622	D1514	T1420	R1312	G1196	D1100
			LEU		ALA	ASP	GLY	PRO	P1722	F1623	D1514	F1422	V1313	G1197	
			VAL		ALA	ASP	GLY	ASP	Y1724	L1625	V1519	T1420	D1314	P1099	
			THR		ALA	THR	ALA	PHE	S1725			F1423	R1315	R1197	V1103
			GLY		ALA	THR	ALA	ALA		R1634	I1530	T1420	V1316	G1104	G1104
			ASP		ALA	THR	ALA	ALA			E1531	F1423	V1317	R1105	C1106
			ASP		ALA	THR	ALA	ALA			I1532	Q1424	D1319	V1110	F1111
			GLY		ALA	THR	ALA	ALA			I1533	V1430	D1319	V1110	F1111
			GLY		ALA	THR	ALA	ALA			I1534	A1431	D1319	V1110	F1111
			GLY		ALA	THR	ALA	ALA			I1535	V1435	D1319	V1110	F1111
			GLY		ALA	THR	ALA	ALA			I1536	V1435	D1319	V1110	F1111
			GLY		ALA	THR	ALA	ALA			I1537	V1435	D1319	V1110	F1111
			GLY		ALA	THR	ALA	ALA			I1538	V1435	D1319	V1110	F1111
			GLY		ALA	THR	ALA	ALA			I1539	V1435	D1319	V1110	F1111
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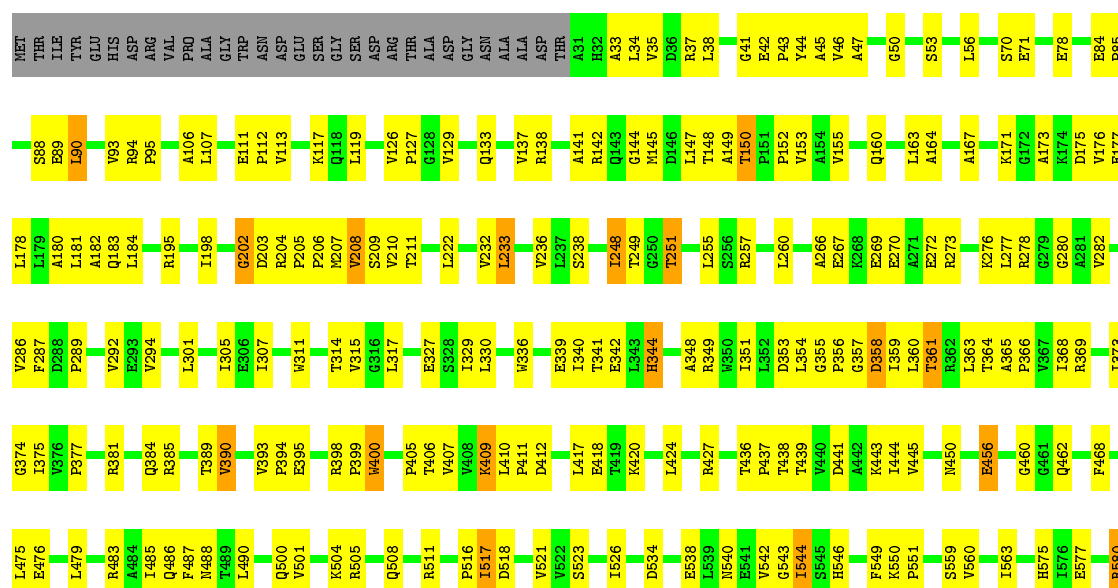



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E2129	T2047	ALA	THR	GLY	ALA	F1581	H1485	A1290	L1188	A1092	T992	I892	A790
Y2134		ASP	VAL	ALA	PRO	H582	I1486	L1292		T1093	I996	T895	E791
	A2053	VAL	GLY	SER	ALA	L1586	V1488	P1400	R1191	L1095	E997	T896	A792
E2137	A2054	ASP	PRO	ARG	ALA		P1489	T1401	F1192	T1096	V998	A896	R793
V2140	V2055	LYS	SER	ARG	ALA	V1590	R1490	A1405	A1193	V1097	D1001	A899	L794
V2141	F2056	VAL	GLY	ASN	ALA		D1491		I1194	V1098	Q1002	G900	H795
T2163	T2059	ILE	LYS	GLN	PRO	E1598	E1702	V1408	R1195	P1099	H1003	I901	P796
V2164	W2060	ASP	ARG	LEU	ALA	K1605	S1496	V1408	G1196	D1100	V1004	F797	Q797
T2165		ALA	ALA	LEU	VAL			H1412	R1197	V1103	V1005	V904	D798
A2166	L2067	VAL	TYR	ASP	ALA	I1611	L1500	P1413	E1202	G1104		F915	F799
T2167	L2070	ALA	ILE	LEU	ALA	G1612	I1503	D1414	L1203	R1105	V1008		E803
		VAL	THR	GLY	PRO	R1613	T1504	G1415	T1204	C1106	P1009	L924	
R2170	E2074	ALA	ARG	GLU	ALA	V1614	R1504	P1416	D1205	V1110	S1011	L934	A808
D2173	Q2081	ALA	VAL	LEU	ALA	I1615	Q1507	L1417	P1206	F1111	G1012	A928	D811
E2175	W2082	ARG	THR	ASN	SER	H1617	I1508	T1420	V1207	G1104	T1013	E929	
T2176	Q2083	GLY	LYS	LEU	GLY	V1619		Q1421		A1117	W1014	P830	
		ILE	THR	GLY	GLY		D1511	F1422		A1118		V931	L816
L2177	Q2084	ALA	TRP	ALA	PRO	F1622	D1514	T1423	D1219	T1119	I1017	E932	E817
	L2085	SER	GLU	ILE	ARG	T1624		Q1424	T1220	E1120	R1018	V933	
K2180	S2086	VAL	LEU	ASP	PRO	L1625	V1519	V1425		F1123	F1019	L934	L826
R2188	Q2087	GLY	GLY	GLY	ASP					F1123	T1020	S835	L827
F2189	R2088	LEU	PRO	ALA	ASP		V1430	V1327		F1124	L1021	R836	
	F2089	PRO	GLY	ALA	ILE		A1431	S1328	R1225	V1125	T1022	R937	D832
	E2090	SER	TRP	GLU	THR			A1329	R1226	I1126		Q938	A833
T2192	G2091	ALA	ALA	ALA	ALA	R1634	L1532	V1435	R1227	E1127	V1025	A939	E834
L2193	T2092	GLY	LYS	ASP	ASP	V1637	G1539	I1449	V1228	G1128		R940	T835
W2194	G2093	GLY	HIS	LEU	ALA	P1638	N1534	Q1441		L1129	G1028	R941	V836
T2195	H2094	ALA	VAL	GLY	ALA	A1639	F1535	V1336	P1233	L1130	G1029		V837
V2196	V2095	SER	THR	ALA	ASP		N1536	M1337		S1131	A1030	A953	L838
F2197	V2096	GLY	VAL	LEU	ALA	T1651	R1537	A1338	M1236	P1031	P1031		H839
A2198	A2097	GLY	GLU	LYS	THR	W1652	L1538	A1339	R1237	I1032	I1032	V956	P840
R2199	T2098	VAL	PHE	GLY	VAL					V1033	V1033	L957	
M2200	Q2099	VAL	ALA	GLN	ALA	K1656	S1540	R1342		P1146	E1034	W958	L853
	A2100	ASP	LEU	VAL	ILE	P1657	Q1541	L1343		K1147	V1035	A859	G854
D2205	R2101		GLY	THR	ILE	K1658	Y1542	A1344	L1268	E1148	D1036	G960	R855
	W2102		THR	LYS	ALA	E1659	A1543	E1345		P1149	D1037	R961	P856
L2209	Q2104		ARG	LEU	LEU	L1660	I1544	P1346	G1268	A1150	A1038	M962	W857
E2211	G2105		GLY	ALA	SER	C1661			M1269	E1151	A1039	S963	J858
W2212			ALA	SER	ALA	R1662	L1551	Y1350		T1040	V964	V964	F859
V2213			THR	LYS	LYS	K1663	E1552	A1351	L1271	A1041	W965	W965	V860
G2214	L2108		TYR	MET	GLU		A1553	F1352	A1274	D1163	M1042	P866	P861
T2215	R2112		LYS	ARG	PRO	L1666	L1554	P1353	A1275	T1162	A1044	P866	V862
E2216	J2113		PRO	PHE	ILE	E1667	E1555	C1463	Q1276	G1167	V1045		R868
	V2114		GLY	GLY	GLN	L1668	E1556	V1464	H1277	R1168	L1046	I970	
	E2115		ASP	PRO	ILE		E1557	Q1358				A971	
K2229			LEU	VAL	ILE	W1671		V1467	W1278	P1171	V1068		R872
			GLY	VAL	GLU	Q1672	R1560	W1362	V1279	V1172	T1088	T974	S873
P2234	L2118		LEU	LEU	ALA	F1673	R1561		T1280	S1173		E975	D874
T2235	F2119		GLY	SER	LEU	A1674	L1470	V1376	T1281	W1072	W976		S875
L2236			ASP	LEU	ASP		Q1563	E1471	T1282	V1174	Q977		L876
L2237	I2122		LEU	ASP	THR		E1564	A1380	D1283	V1077	V1077		W877
F2238	S2015		ALA	ALA	ALA	W1679		D1381	G1284	R1177		R979	
	T2015		ILE	SER	ILE				K1285	T1084		E880	
A2124	W2016		GLY	ASN	GLU	D1684	V1574			N1178			H880
G2125	A2126		ALA	ASP	SER	L1685	D1578	R1385	P1286	A1179	A1089	H989	E885
			LEU	GLN	ILE	L1686			V1287		P1090	P990	A886
A2246	E2127		ALA	LEU	THR	F1687	V1579	S1391	P1288	L1184			



• Molecule 1: TYPE-I FATTY ACID SYNTHASE

Chain A: 57% 31% 9%





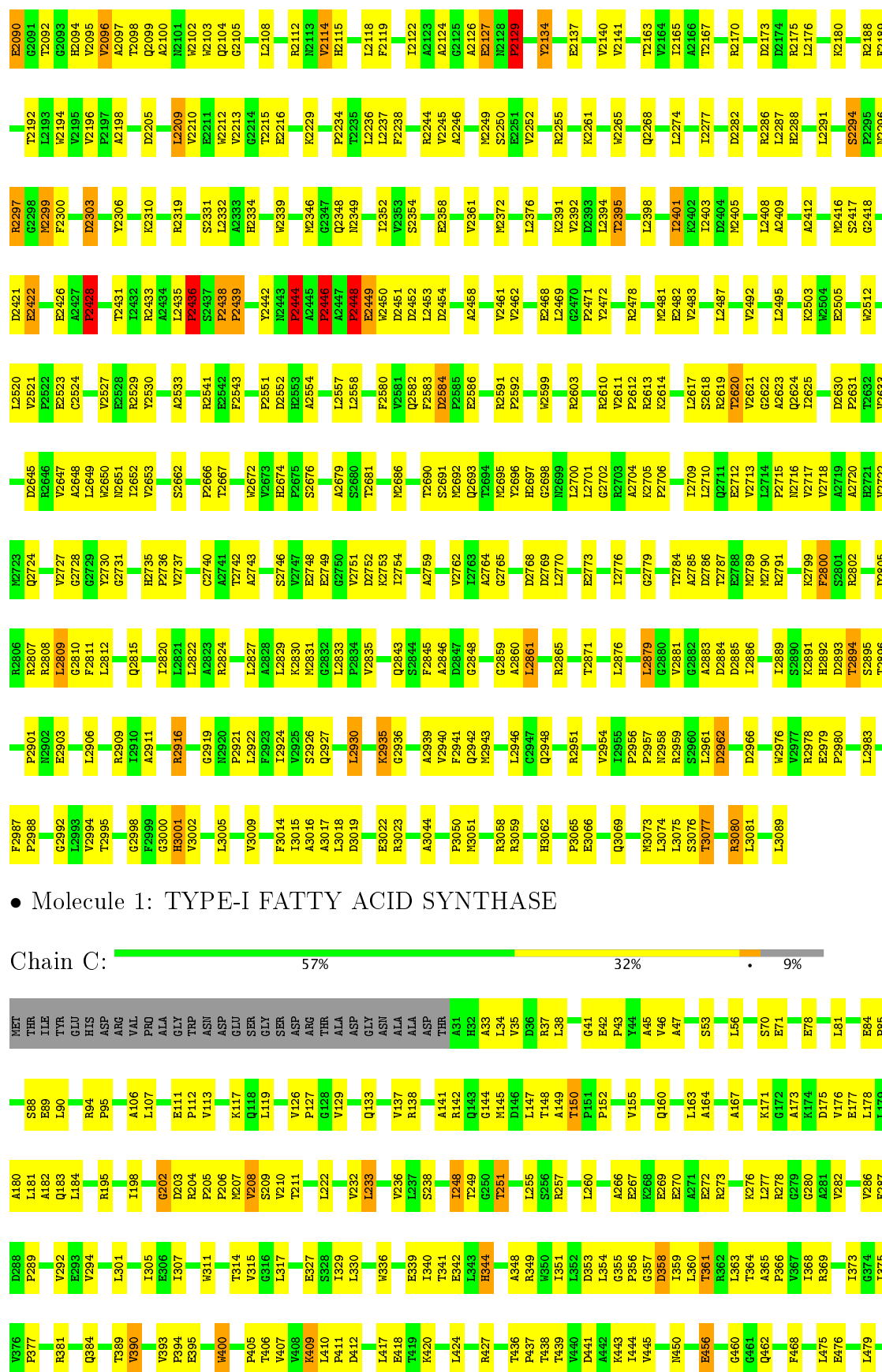

F2189	M2299	E426	V2521	D2630	A2719	S2801	H2892	E2979
T2192	F2300	E427	P2522	P2631	A2720	R2802	D2893	P2980
L2193	D2303	P2428	E2523	V2632	E2721	D2805	T2894	L2983
V2194	C2524	P2428	E2524	V2633	V2722	D2806	S2895	L2983
V2195	Y2306	T2431	E2525	D2645	M2723	R2807	T2896	F2987
V2196	K2310	L2432	E2526	E2646	Q2724	R2808	P2901	P2988
F2197	K2319	R2433	V2527	V2647	V2727	L2809	E2902	G2992
A2198	R2319	L2435	E2528	A2648	G2728	G2810	E2903	L2993
D2205	S2331	P2436	Y2530	L2649	G2729	F2811	V2904	V2994
L2209	S2331	S2437	A2533	M2650	G2730	L2812	T2906	T2995
V2210	L2332	P2438	A2533	M2651	G2731	Q2815	R2909	G2998
E2211	A2333	P2439	R2541	V2652	H2735	I2820	I2910	F2999
V2212	H2334	Y2442	E2542	V2653	P2736	L2821	A2911	G3000
V2213	V2339	R2443	E2543	S2662	V2737	L2822	R2916	H3001
G2214	V2339	P2444	P2551	P2666	C2740	A2823	G2919	V3002
T2215	M2346	L2445	D2552	T2667	A2741	R2824	V3019	G3003
E2216	G2347	P2446	H2553	V2672	T2742	L2827	H2920	G3004
K2229	Q2348	E2448	A2554	V2673	A2743	A2828	P2921	L3005
P2234	M2349	E2449	L2557	H2674	S2746	L2829	L2922	V3009
T2235	I2352	D2450	L2558	P2675	V2747	K2830	I2924	F3014
L2236	S2354	D2451	L2563	S2676	E2748	M2831	V2925	L3015
L2237	S2354	D2452	L2567	A2679	G2750	G2833	S2926	A3016
F2238	E2358	D2454	F2567	S2680	V2751	L2833	Q2927	A3017
R2244	V2361	A2458	F2580	T2681	D2752	V2835	L2930	L3018
V2245	M2372	V2461	V2581	M2686	I2754	L2836	K2935	D3019
A2246	I2376	V2462	Q2582	T2690	A2759	Q2843	G2936	E3022
V2252	L2376	L2469	F2583	S2691	V2762	S2844	R2939	R3023
R2255	K2391	L2469	D2584	M2692	I2763	F2845	V2940	A3044
K2261	V2392	P2470	E2585	G2693	E2764	D2847	F2941	L3044
V2265	D2393	Y2472	E2586	T2694	G2765	G2848	Q2942	P3050
Q2268	L2394	R2478	R2591	M2695	D2768	G2859	M2943	M3051
L2274	T2395	M2481	P2592	Y2696	D2769	A2860	L2946	R3058
I2277	L2401	E2482	V2599	H2697	L2770	L2861	C2947	R3059
D2282	I2403	V2483	R2603	G2698	E2773	R2865	Q2948	P3065
L2286	L2408	L2487	R2610	I2699	I2776	T2871	R2951	Q3069
H2288	A2409	L2495	V2611	L2700	G2779	L2876	V2954	M3073
L2291	A2412	K2503	R2612	G2702	A2704	G2881	I2955	L3074
S2294	M2416	E2505	R2613	P2706	T2784	V2881	P2956	L3075
P2295	S2417	E2512	R2614	I2709	A2785	G2882	N2958	S3076
N2296	G2418	Y2513	G2622	L2710	T2787	V2883	R2959	T3077
R2297	D2421	D2514	Q2624	L2711	E2788	L2961	S2960	R3080
G2298	E2422	L2520	Q2625	E2712	M2789	D2885	D2962	L3081
				P2715	R2791	I2886	D2966	L3089
				N2716	K2799	I2889	W2976	
				I2625	F2800	S2890	V2977	
						K2891	R2978	

• Molecule 1: TYPE-I FATTY ACID SYNTHASE

Chain B:  57% 31% 9%

MET	S88	A180	D288	V376	I485
THR	E89	L181	P289	F377	Q486
ILE	L90	A182	V292	R381	F487
GLU	R94	Q183	E293	Q384	N488
ASP	P95	L194	V294	T389	T489
ARG	A106	R195	L301	V390	L490
VAL	L107	I198	I305	V393	Q500
PRO	E111	G202	D203	V394	K504
GLY	P112	R204	I307	E395	R505
TRP	V113	P205	W311	W400	Q508
ASN	K117	P206	T314	P405	R511
ASP	Q118	M207	V208	T406	A515
SER	L119	S209	G316	V407	P516
SER	V126	V210	L317	V408	I517
ASP	P127	T211	E327	L409	D518
ARG	G128	L222	I329	L410	V521
ALA	V129	V232	L330	D412	V522
ASP	Q133	L233	W336	L417	S523
GLY	V137	V236	E339	E418	I526
ASN	R138	L237	T341	T419	D534
ALA	A141	S238	E342	K420	
THR	R142	L248	E343	L424	E538
A31	Q143	T249	H344	R427	I539
H32	G144	G250	T251	T436	N540
A33	M145	L255	A348	P437	E541
V35	D146	L256	R349	T438	V542
D36	L147	H350	I351	T439	G543
R37	T148	R257	L352	V440	I544
L38	T150	L260	D353	D441	S545
G41	P151	A266	L354	K442	H546
E42	P152	E267	G355	K443	F549
P43	V155	K268	P356	T444	K550
A45	Q160	E269	G357	V445	P551
V46	L163	E270	L360	N450	S559
A47	A164	A271	R361	E456	V560
G50	A167	R273	L363	Q462	I563
S53	K171	K276	A365	F468	H575
L56	G172	L277	P366	L475	I576
S70	A173	R278	G279	E476	R580
E71	K174	G280	I368	L479	G583
D175	V176	A281	R369		H584
E78	E177	V282	I373		H585
E84	L178	V286	G374		S586
P85	L179	F287	I375		W587



SER	VAL	GLU	ILE	ARG	L1719	L14625	L14530	V14425	E1323	A1212	A1117	H1003	A899	A790	A680	W587	R483
VAL	SER	LEU	ASP	PRO	P1722	F1629	E1531	V1430	E1324	A1218	A1118	V1004	A898	E791	A681	E588	A484
SER	LEU	PRO	ALA	ASP	E1723	F1629	V1532	V1431	V1325	T1218	T1119	V1005	G900	A792	H682	D589	I485
SER	TRP	GLY	ALA	ILE	Y1724	I1633	N1533	A1431	L1325	T1219	E1120	V1008	I901	R793	G683	L590	I486
ALA	ALA	ALA	ALA	THR	S1725	R1634	N1534	V1435	E1326	T1220	F1123	P1009	W004	H794	H684	L593	F487
ALA	LYS	ASP	ALA	PHE	E1730	V1637	N1536	Q1441	S1328	T1221	F1124	P1010	F915	H795	A685	L594	I488
GLY	GLY	HIS	LEU	ALA	V1731	P1638	L1537	Q1442	A1329	R1225	F1125	S1011	F915	P796	S686	L595	I489
SER	ALA	VAL	ALA	ASP	L1732	A1639	G1539	V1445	R1330	T1226	I1126	G1012	L924	D798	G687	L596	L490
GLY	GLY	VAL	LEU	ALA	N1733	A1639	G1539	V1445	I1331	D1227	E1127	T1013	L924	F799	H688		
GLY	GLY	VAL	LEU	THR	S1734	T1651	Q1541	A1448	V1336	V1228	G1128	W1014	L924	F799		Y598	Q500
VAL	PHE	PHE	GLY	VAL	E1735	W1652	Y1542	T1449	M1337	R1237	L1129	W1014	L924	F799			Y501
VAL	ALA	ALA	GLN	LEU	R1736	K1656	A1543	A1450	A1338								
ASP	ASP	LEU	VAL	LEU	D1737	P1657	I1544	V1455	A1339								
S1983		GLY	THR	ILE	L1741	K1658	L1551	V1455									
L1986		THR	LYS	ALA	D1745	E1659	E1552	T1459	R1342								
F1989		GLU	LEU	LEU		K1660	A1553	A1460	L1343								
K1992		GLY	ALA	SER	THR	G1661	L1554	A1461	A1344								
P1996		SER	THR	ALA	ASP	R1662	E1555	A1462	A1346								
L2000		SER	TYR	MET	GLU	K1663	E1556	C1463	P1346								
Q2010		VAL	LYS	ARG	PRO	I1666	E1557	V1464	Y1350								
G2012		ARG	PRO	ILE	GLU	E1667	R1560	V1467	A1351								
S2014		GLY	PHE	ASP	PRO	L1668	R1561	Y1468	F1352								
V2015		GLY	GLY	ASP	GLU		R1562	E1469	P1353								
V2016		ASP	PRO	ILE	GLU		Q1563	L1470	I1357								
P2020		LEU	VAL	GLU	ASP		I1564	E1471	Q1358								
V2032		GLY	VAL	GLU	ASP		D1578	F1673	H1359								
T2047		GLY	SER	LEU	PRO		P1579	A1674	K1360								
A2053		HIS	THR	ASP	THR		H1581		G1361								
V2055		ALA	ALA	SER	ALA		H1582		M1362								
V2056		ALA	THR	GLY	ALA		S1583		L1363								
D2057		LEU	ALA	THR	ALA		L1586		P1364								
R2059		ALA	ALA	ASP	ALA				A1380								
W2060		ALA	ALA	SER	ALA				F1390								
L2067		ALA	ALA	ASP	ALA				F1287								
L2070		ALA	THR	GLY	PRO				V1288								
E2074		ALA	GLU	ARG	ALA				D1398								
Q2081		ARG	VAL	SER	ALA				N1399								
W2082		ARG	VAL	GLY	PRO				P1400								
E2083		ILE	TRP	ALA	PRO				A1405								

M3073	M3074	L3075	S3076	T3077	R3080	L3081	L3089	N2958	R2959	S2960	L2961	D2962	D2966	V2976	V2977	R2978	E2979	P2980	L2983	F2987	P2988	L2989	G2992	L2993	V2994	T2995	G2998	F2999	G3000	H3001	V3002	L3005	V3009	F3014	I3015	A3016	A3017	L3018	D3019	E3022	R3023	A3044	P3050	M3051	D3057	R3058	R3059	H3062	P3065	E3066	Q3069	D2786	T2787	E2788	M2789	M2790	R2791	K2799	F2800	S2801	R2802	D2805	R2806	R2807	S2808	P2901	V2902	E2903	L2906	R2909	I2910	A2911	R2916	G2919	N2920	P2921	L2922	I2924	V2925	S2926	Q2927	L2930	K2935	G2936	A2939	V2940	F2941	Q2942	M2943	L2946	C2947	Q2948	R2951	V2954	I2955	P2957	D2776	T2777	E2778	M2779	G2780	A2855	P2856	G2859	A2860	L2861	R2865	T2871	L2876	L2879	Q2711	E2712	V2713	L2714	P2715	N2716	V2717	V2718	A2719	A2720	H2721	V2722	M2723	Q2724	V2727	G2728	G2729	V2730	G2731	H2735	P2736	V2737	C2740	A2741	T2742	A2743	S2746	V2747	E2748	E2749	G2750	V2751	D2752	K2753	L2754	K2758	A2759	M2692	Q2693	T2694	M2695	Y2696	E2697	G2698	M2699	L2700	L2701	G2702	R2703	A2704	K2705	P2706	I2709	L2710	S2618	R2619	T2620	V2621	G2622	A2623	Q2624	L2625	D2630	A2631	T2632	V2633	D2645	R2646	V2647	A2648	L2649	M2650	N2651	I2652	V2653	S2662	T2665	P2666	T2667	M2672	S2676	A2679	S2680	T2681	M2686	T2690	S2691	M2692	Q2693	T2694	M2695	Y2696	E2697	G2698	M2699	L2700	L2701	G2702	R2703	A2704	K2705	P2706	I2709	L2710	E2505	M2512	Y2513	L2520	V2521	F2522	E2523	C2524	E2525	L2526	V2527	E2528	R2541	E2542	F2543	P2551	D2552	H2553	A2554	S2555	P2556	L2557	L2558	L2563	F2567	E2574	F2580	V2581	Q2582	F2583	D2584	P2585	E2586	R2591	P2592	M2599	R2603	R2610	V2611	P2612	K2614	L2617	M2416	S2417	G2418	D2421	E2422	E2426	A2427	P2428	T2431	L2432	R2433	L2435	P2436	S2437	L2438	P2439	Y2442	N2443	P2444	A2445	P2446	A2447	P2448	E2449	D2450	D2451	D2452	L2453	D2454	A2458	V2461	V2462	L2469	G2470	P2471	Y2472	R2478	M2481	E2482	V2483	L2487	D2492	V2492	L2495	K2503	M2504	N2296	R2297	G2298	M2299	F2300	D2303	Y2306	K2310	R2319	K2324	E2328	S2331	L2332	H2334	M2339	M2346	G2347	Q2348	N2349	T2335	L2352	V2353	S2354	E2358	V2361	M2372	L2376	K2391	V2392	D2393	L2394	T2395	L2398	L2401	K2402	I2403	D2404	M2405	L2408	A2409	A2412	L2176	K2180	R2188	F2189	T2192	L2193	M2194	V2195	V2196	P2197	A2198	D2205	L2209	V2210	E2211	M2212	V2213	G2214	E2215	E2216	K2229	P2234	T2235	L2236	L2237	F2238	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N2101	H2102	M2103	Q2104	G2105	L2108	R2112	N2113	V2114	H2115	L2118	F2119	I2122	A2123	A2124	G2125	A2126	E2127	N2128	P2129	Y2134	E2137	V2140	V2141	T2163	V2164	I2165	A2166	L2167	H2170	L2291	S2294	D2173	D2174	P2295	Q2084	L2085	S2086	Q2087	R2088	F2089	E2090	G2091	T2092	G2093	H2094	V2095	V2096	A2097	Q2098	Q2099	A2100	N21
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4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	9136	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	Depositor
Minimum defocus (nm)	1800	Depositor
Maximum defocus (nm)	4500	Depositor
Magnification	59000	Depositor
Image detector	KODAK SO-163 FILM	Depositor

5 Model quality

5.1 Standard geometry

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	$\# Z > 2$	RMSZ	$\# Z > 2$
1	A	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
1	B	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
1	C	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
1	D	0.41	26/18511 (0.1%)	0.50	13/25179 (0.1%)
1	E	0.39	26/21335 (0.1%)	0.51	13/29037 (0.0%)
1	F	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
All	All	0.40	160/125186 (0.1%)	0.51	78/170364 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	5
1	B	0	5
1	C	0	5
1	D	0	2
1	E	0	5
1	F	0	5
All	All	0	27

All (160) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	2442	TYR	CB-CG	-6.39	1.42	1.51
1	A	2442	TYR	CB-CG	-6.35	1.42	1.51
1	B	2442	TYR	CB-CG	-6.35	1.42	1.51
1	D	2442	TYR	CB-CG	-6.33	1.42	1.51
1	F	2442	TYR	CB-CG	-6.33	1.42	1.51
1	C	2442	TYR	CB-CG	-6.32	1.42	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	2134	TYR	CB-CG	-6.26	1.42	1.51
1	A	2134	TYR	CB-CG	-6.24	1.42	1.51
1	B	2134	TYR	CB-CG	-6.23	1.42	1.51
1	F	2134	TYR	CB-CG	-6.22	1.42	1.51
1	E	2134	TYR	CB-CG	-6.18	1.42	1.51
1	D	2134	TYR	CB-CG	-6.17	1.42	1.51
1	D	2119	PHE	CB-CG	-5.48	1.42	1.51
1	B	2119	PHE	CB-CG	-5.46	1.42	1.51
1	B	2089	PHE	CB-CG	-5.44	1.42	1.51
1	D	2089	PHE	CB-CG	-5.43	1.42	1.51
1	F	2089	PHE	CB-CG	-5.43	1.42	1.51
1	F	2119	PHE	CB-CG	-5.42	1.42	1.51
1	E	2089	PHE	CB-CG	-5.42	1.42	1.51
1	E	2119	PHE	CB-CG	-5.41	1.42	1.51
1	C	975	GLU	CB-CG	-5.40	1.41	1.52
1	C	2119	PHE	CB-CG	-5.39	1.42	1.51
1	C	2089	PHE	CB-CG	-5.38	1.42	1.51
1	F	975	GLU	CB-CG	-5.37	1.42	1.52
1	A	2119	PHE	CB-CG	-5.37	1.42	1.51
1	D	975	GLU	CB-CG	-5.36	1.42	1.52
1	B	975	GLU	CB-CG	-5.36	1.42	1.52
1	A	975	GLU	CB-CG	-5.36	1.42	1.52
1	F	2090	GLU	CB-CG	-5.36	1.42	1.52
1	C	2090	GLU	CB-CG	-5.35	1.42	1.52
1	A	2089	PHE	CB-CG	-5.35	1.42	1.51
1	A	2090	GLU	CB-CG	-5.33	1.42	1.52
1	A	2426	GLU	CB-CG	-5.33	1.42	1.52
1	D	2426	GLU	CB-CG	-5.33	1.42	1.52
1	D	2127	GLU	CB-CG	-5.32	1.42	1.52
1	D	2090	GLU	CB-CG	-5.32	1.42	1.52
1	B	2090	GLU	CB-CG	-5.32	1.42	1.52
1	E	2083	GLU	CB-CG	-5.32	1.42	1.52
1	E	975	GLU	CB-CG	-5.31	1.42	1.52
1	D	980	GLU	CB-CG	-5.31	1.42	1.52
1	E	1202	GLU	CB-CG	-5.31	1.42	1.52
1	A	2127	GLU	CB-CG	-5.30	1.42	1.52
1	B	2426	GLU	CB-CG	-5.30	1.42	1.52
1	C	932	GLU	CB-CG	-5.30	1.42	1.52
1	D	997	GLU	CB-CG	-5.29	1.42	1.52
1	B	2127	GLU	CB-CG	-5.29	1.42	1.52
1	D	1202	GLU	CB-CG	-5.29	1.42	1.52
1	C	2083	GLU	CB-CG	-5.29	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	2083	GLU	CB-CG	-5.29	1.42	1.52
1	E	2090	GLU	CB-CG	-5.29	1.42	1.52
1	E	2426	GLU	CB-CG	-5.29	1.42	1.52
1	C	980	GLU	CB-CG	-5.28	1.42	1.52
1	B	2422	GLU	CB-CG	-5.28	1.42	1.52
1	F	1202	GLU	CB-CG	-5.28	1.42	1.52
1	E	932	GLU	CB-CG	-5.28	1.42	1.52
1	F	980	GLU	CB-CG	-5.28	1.42	1.52
1	F	2127	GLU	CB-CG	-5.28	1.42	1.52
1	B	997	GLU	CB-CG	-5.28	1.42	1.52
1	D	2449	GLU	CB-CG	-5.27	1.42	1.52
1	F	2426	GLU	CB-CG	-5.27	1.42	1.52
1	E	980	GLU	CB-CG	-5.27	1.42	1.52
1	E	2422	GLU	CB-CG	-5.27	1.42	1.52
1	B	932	GLU	CB-CG	-5.27	1.42	1.52
1	A	1202	GLU	CB-CG	-5.27	1.42	1.52
1	D	2083	GLU	CB-CG	-5.27	1.42	1.52
1	F	2083	GLU	CB-CG	-5.27	1.42	1.52
1	C	997	GLU	CB-CG	-5.26	1.42	1.52
1	F	932	GLU	CB-CG	-5.26	1.42	1.52
1	B	2449	GLU	CB-CG	-5.26	1.42	1.52
1	D	932	GLU	CB-CG	-5.26	1.42	1.52
1	A	2422	GLU	CB-CG	-5.26	1.42	1.52
1	A	980	GLU	CB-CG	-5.26	1.42	1.52
1	A	2449	GLU	CB-CG	-5.26	1.42	1.52
1	B	2083	GLU	CB-CG	-5.26	1.42	1.52
1	E	2127	GLU	CB-CG	-5.25	1.42	1.52
1	C	2426	GLU	CB-CG	-5.25	1.42	1.52
1	F	997	GLU	CB-CG	-5.25	1.42	1.52
1	F	2449	GLU	CB-CG	-5.25	1.42	1.52
1	B	980	GLU	CB-CG	-5.25	1.42	1.52
1	B	929	GLU	CB-CG	-5.25	1.42	1.52
1	B	1202	GLU	CB-CG	-5.24	1.42	1.52
1	E	929	GLU	CB-CG	-5.24	1.42	1.52
1	A	929	GLU	CB-CG	-5.24	1.42	1.52
1	E	997	GLU	CB-CG	-5.24	1.42	1.52
1	D	2422	GLU	CB-CG	-5.24	1.42	1.52
1	F	2422	GLU	CB-CG	-5.23	1.42	1.52
1	A	997	GLU	CB-CG	-5.23	1.42	1.52
1	C	1202	GLU	CB-CG	-5.23	1.42	1.52
1	C	2449	GLU	CB-CG	-5.23	1.42	1.52
1	E	2449	GLU	CB-CG	-5.23	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	932	GLU	CB-CG	-5.22	1.42	1.52
1	F	929	GLU	CB-CG	-5.22	1.42	1.52
1	E	998	VAL	CB-CG1	-5.21	1.41	1.52
1	C	2422	GLU	CB-CG	-5.21	1.42	1.52
1	C	2127	GLU	CB-CG	-5.21	1.42	1.52
1	C	929	GLU	CB-CG	-5.21	1.42	1.52
1	D	929	GLU	CB-CG	-5.20	1.42	1.52
1	F	998	VAL	CB-CG1	-5.20	1.42	1.52
1	A	998	VAL	CB-CG1	-5.19	1.42	1.52
1	C	998	VAL	CB-CG1	-5.17	1.42	1.52
1	D	998	VAL	CB-CG2	-5.15	1.42	1.52
1	E	933	VAL	CB-CG1	-5.15	1.42	1.52
1	B	933	VAL	CB-CG2	-5.14	1.42	1.52
1	D	1005	VAL	CB-CG1	-5.14	1.42	1.52
1	B	998	VAL	CB-CG1	-5.14	1.42	1.52
1	C	1005	VAL	CB-CG1	-5.13	1.42	1.52
1	D	933	VAL	CB-CG1	-5.13	1.42	1.52
1	F	933	VAL	CB-CG1	-5.12	1.42	1.52
1	B	2095	VAL	CB-CG2	-5.12	1.42	1.52
1	E	2095	VAL	CB-CG1	-5.12	1.42	1.52
1	D	2096	VAL	CB-CG1	-5.12	1.42	1.52
1	B	1005	VAL	CB-CG1	-5.12	1.42	1.52
1	A	1207	VAL	CB-CG2	-5.11	1.42	1.52
1	A	1005	VAL	CB-CG1	-5.11	1.42	1.52
1	C	2096	VAL	CB-CG2	-5.11	1.42	1.52
1	F	931	VAL	CB-CG1	-5.11	1.42	1.52
1	A	2096	VAL	CB-CG2	-5.11	1.42	1.52
1	B	2114	VAL	CB-CG2	-5.11	1.42	1.52
1	A	978	VAL	CB-CG1	-5.10	1.42	1.52
1	D	2114	VAL	CB-CG1	-5.10	1.42	1.52
1	E	1005	VAL	CB-CG1	-5.10	1.42	1.52
1	B	931	VAL	CB-CG1	-5.10	1.42	1.52
1	C	931	VAL	CB-CG1	-5.10	1.42	1.52
1	E	2096	VAL	CB-CG1	-5.10	1.42	1.52
1	A	2095	VAL	CB-CG2	-5.09	1.42	1.52
1	A	931	VAL	CB-CG1	-5.09	1.42	1.52
1	E	978	VAL	CB-CG1	-5.09	1.42	1.52
1	E	1207	VAL	CB-CG2	-5.09	1.42	1.52
1	F	2095	VAL	CB-CG1	-5.09	1.42	1.52
1	C	978	VAL	CB-CG1	-5.09	1.42	1.52
1	E	931	VAL	CB-CG1	-5.08	1.42	1.52
1	F	2096	VAL	CB-CG1	-5.08	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	978	VAL	CB-CG1	-5.08	1.42	1.52
1	B	2096	VAL	CB-CG1	-5.08	1.42	1.52
1	F	978	VAL	CB-CG2	-5.08	1.42	1.52
1	F	2114	VAL	CB-CG2	-5.08	1.42	1.52
1	C	1207	VAL	CB-CG2	-5.08	1.42	1.52
1	C	2095	VAL	CB-CG1	-5.08	1.42	1.52
1	F	1005	VAL	CB-CG1	-5.08	1.42	1.52
1	E	2114	VAL	CB-CG2	-5.07	1.42	1.52
1	B	1207	VAL	CB-CG1	-5.07	1.42	1.52
1	D	931	VAL	CB-CG1	-5.06	1.42	1.52
1	D	2095	VAL	CB-CG2	-5.06	1.42	1.52
1	C	2114	VAL	CB-CG2	-5.06	1.42	1.52
1	C	1008	VAL	CB-CG2	-5.06	1.42	1.52
1	D	978	VAL	CB-CG1	-5.06	1.42	1.52
1	C	1004	VAL	CB-CG1	-5.06	1.42	1.52
1	D	1004	VAL	CB-CG1	-5.05	1.42	1.52
1	D	1207	VAL	CB-CG1	-5.05	1.42	1.52
1	F	1207	VAL	CB-CG1	-5.05	1.42	1.52
1	C	933	VAL	CB-CG2	-5.05	1.42	1.52
1	B	1008	VAL	CB-CG2	-5.04	1.42	1.52
1	A	933	VAL	CB-CG1	-5.04	1.42	1.52
1	B	1004	VAL	CB-CG1	-5.04	1.42	1.52
1	A	1008	VAL	CB-CG1	-5.03	1.42	1.52
1	F	1004	VAL	CB-CG1	-5.03	1.42	1.52
1	A	2114	VAL	CB-CG2	-5.02	1.42	1.52
1	A	1004	VAL	CB-CG1	-5.02	1.42	1.52
1	E	1008	VAL	CB-CG1	-5.01	1.42	1.52
1	F	1008	VAL	CB-CG2	-5.01	1.42	1.52

All (78) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	930	PRO	N-CA-CB	6.99	111.69	103.30
1	C	930	PRO	N-CA-CB	6.98	111.68	103.30
1	F	930	PRO	N-CA-CB	6.97	111.66	103.30
1	A	930	PRO	N-CA-CB	6.96	111.66	103.30
1	D	930	PRO	N-CA-CB	6.96	111.65	103.30
1	B	930	PRO	N-CA-CB	6.96	111.65	103.30
1	F	1206	PRO	N-CA-CB	6.33	110.90	103.30
1	A	2438	PRO	N-CA-CB	6.30	110.86	103.30
1	C	1206	PRO	N-CA-CB	6.29	110.84	103.30
1	B	1206	PRO	N-CA-CB	6.29	110.84	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	E	1206	PRO	N-CA-CB	6.27	110.83	103.30
1	B	2438	PRO	N-CA-CB	6.26	110.82	103.30
1	D	1206	PRO	N-CA-CB	6.24	110.79	103.30
1	D	2438	PRO	N-CA-CB	6.23	110.78	103.30
1	E	2438	PRO	N-CA-CB	6.22	110.77	103.30
1	F	2438	PRO	N-CA-CB	6.21	110.75	103.30
1	A	1206	PRO	N-CA-CB	6.20	110.74	103.30
1	C	2438	PRO	N-CA-CB	6.19	110.72	103.30
1	D	2428	PRO	N-CA-CB	6.13	110.66	103.30
1	E	2444	PRO	N-CA-CB	6.12	110.65	103.30
1	A	2444	PRO	N-CA-CB	6.11	110.63	103.30
1	F	2444	PRO	N-CA-CB	6.11	110.63	103.30
1	C	2444	PRO	N-CA-CB	6.11	110.63	103.30
1	B	2444	PRO	N-CA-CB	6.10	110.62	103.30
1	B	2428	PRO	N-CA-CB	6.09	110.61	103.30
1	C	2428	PRO	N-CA-CB	6.08	110.60	103.30
1	A	2428	PRO	N-CA-CB	6.08	110.60	103.30
1	D	2444	PRO	N-CA-CB	6.08	110.59	103.30
1	E	2428	PRO	N-CA-CB	6.08	110.59	103.30
1	F	2428	PRO	N-CA-CB	6.04	110.55	103.30
1	D	2446	PRO	N-CA-CB	5.99	110.49	103.30
1	C	2439	PRO	N-CA-CB	5.99	110.49	103.30
1	B	2446	PRO	N-CA-CB	5.97	110.47	103.30
1	A	2446	PRO	N-CA-CB	5.96	110.46	103.30
1	F	2446	PRO	N-CA-CB	5.96	110.45	103.30
1	E	2446	PRO	N-CA-CB	5.95	110.44	103.30
1	D	2439	PRO	N-CA-CB	5.95	110.44	103.30
1	C	2446	PRO	N-CA-CB	5.95	110.44	103.30
1	A	2129	PRO	N-CA-CB	5.92	110.41	103.30
1	A	2439	PRO	N-CA-CB	5.91	110.39	103.30
1	C	2129	PRO	N-CA-CB	5.89	110.37	103.30
1	F	2439	PRO	N-CA-CB	5.89	110.36	103.30
1	E	2129	PRO	N-CA-CB	5.88	110.36	103.30
1	C	2448	PRO	N-CA-CB	5.88	110.36	103.30
1	E	2439	PRO	N-CA-CB	5.88	110.36	103.30
1	A	2448	PRO	N-CA-CB	5.88	110.36	103.30
1	F	2129	PRO	N-CA-CB	5.87	110.35	103.30
1	B	2439	PRO	N-CA-CB	5.87	110.35	103.30
1	D	2448	PRO	N-CA-CB	5.87	110.35	103.30
1	E	2448	PRO	N-CA-CB	5.87	110.35	103.30
1	D	2129	PRO	N-CA-CB	5.86	110.34	103.30
1	B	2129	PRO	N-CA-CB	5.86	110.33	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	2448	PRO	N-CA-CB	5.85	110.32	103.30
1	B	2448	PRO	N-CA-CB	5.85	110.32	103.30
1	A	1009	PRO	N-CA-CB	5.84	110.31	103.30
1	C	1009	PRO	N-CA-CB	5.79	110.24	103.30
1	B	990	PRO	N-CA-CB	5.78	110.24	103.30
1	E	1009	PRO	N-CA-CB	5.78	110.23	103.30
1	F	1009	PRO	N-CA-CB	5.74	110.19	103.30
1	B	1009	PRO	N-CA-CB	5.73	110.18	103.30
1	D	1009	PRO	N-CA-CB	5.73	110.17	103.30
1	D	990	PRO	N-CA-CB	5.71	110.15	103.30
1	F	990	PRO	N-CA-CB	5.70	110.14	103.30
1	A	990	PRO	N-CA-CB	5.70	110.14	103.30
1	C	990	PRO	N-CA-CB	5.70	110.14	103.30
1	E	990	PRO	N-CA-CB	5.68	110.11	103.30
1	C	1221	PRO	N-CA-CB	5.61	110.03	103.30
1	F	1221	PRO	N-CA-CB	5.61	110.03	103.30
1	D	1221	PRO	N-CA-CB	5.59	110.01	103.30
1	B	1221	PRO	N-CA-CB	5.59	110.01	103.30
1	E	1221	PRO	N-CA-CB	5.56	109.97	103.30
1	B	2436	PRO	N-CA-CB	5.55	109.95	103.30
1	E	2436	PRO	N-CA-CB	5.54	109.95	103.30
1	A	1221	PRO	N-CA-CB	5.53	109.94	103.30
1	F	2436	PRO	N-CA-CB	5.53	109.94	103.30
1	A	2436	PRO	N-CA-CB	5.51	109.92	103.30
1	D	2436	PRO	N-CA-CB	5.50	109.90	103.30
1	C	2436	PRO	N-CA-CB	5.50	109.90	103.30

There are no chirality outliers.

All (27) 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

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Mol	Chain	Res	Type	Group
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	2584	ASP	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	882	0
1	B	20945	0	20595	872	0
1	C	20945	0	20595	896	0
1	D	18171	0	17756	765	0
1	E	20945	0	20595	882	0
1	F	20945	0	20594	1028	0
2	A	31	0	19	4	0
2	B	31	0	19	4	0
2	C	31	0	19	4	0
2	D	31	0	19	4	0
2	E	31	0	19	4	0
2	F	31	0	19	4	0
All	All	123082	0	120844	4979	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 20.

All (4979) 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:F:1039:ALA:HB2	1:F:1125:VAL:CG1	1.35	1.53
1:F:958:TRP:CH2	1:F:1131:SER:OG	1.76	1.38
1:F:1385:ARG:NH1	1:F:2411:LYS:NZ	1.74	1.36
1:F:953:ALA:CB	1:F:1032:ILE:HD11	1.58	1.33
1:F:2407:GLU:O	1:F:2411:LYS:HG3	1.26	1.29
1:F:1385:ARG:HH11	1:F:2411:LYS:CE	1.46	1.28
1:F:1385:ARG:CD	1:F:2411:LYS:HZ1	1.45	1.28
1:F:953:ALA:CB	1:F:1032:ILE:CD1	2.18	1.21
1:F:513:SER:O	1:F:961:ARG:NH1	1.72	1.19
1:F:1401:THR:HG21	1:C:2286:ARG:NH2	1.57	1.19
1:F:1037:ASP:OD1	1:F:1043:ARG:HG2	1.37	1.18
1:F:1021:LEU:HD22	1:F:1034:GLU:HG3	1.27	1.16
1:F:1038:ALA:O	1:F:1125:VAL:HG12	0.99	1.16
1:F:1039:ALA:CB	1:F:1125:VAL:HG11	1.78	1.14
1:F:1038:ALA:O	1:F:1125:VAL:CG1	1.95	1.13
1:F:1394:HIS:CE1	1:C:2324:LYS:HD3	1.84	1.13
1:E:1013:THR:HG23	1:E:1014:TRP:H	1.15	1.11
1:A:1013:THR:HG23	1:A:1014:TRP:H	1.15	1.10
1:F:1385:ARG:NH1	1:F:2411:LYS:CE	2.09	1.10
1:F:1385:ARG:HD2	1:F:2411:LYS:NZ	1.66	1.09
1:F:1039:ALA:CB	1:F:1125:VAL:CG1	2.32	1.08
1:F:1385:ARG:HD2	1:F:2411:LYS:HZ1	1.18	1.07
1:F:1042:MET:O	1:F:1044:ALA:N	1.87	1.07
1:C:1013:THR:HG23	1:C:1014:TRP:H	1.15	1.07
1:D:1013:THR:HG23	1:D:1014:TRP:H	1.15	1.07
1:A:2112:ARG:H	1:A:2115:HIS:CG	1.73	1.07
1:F:1039:ALA:HB2	1:F:1125:VAL:CB	1.83	1.07
1:C:2094:HIS:CG	1:C:2096:VAL:HG22	1.90	1.06
1:F:1385:ARG:CZ	1:F:2411:LYS:NZ	2.18	1.06
1:F:953:ALA:HB3	1:F:1032:ILE:HD11	1.33	1.06
1:F:2112:ARG:H	1:F:2115:HIS:CG	1.73	1.06
1:A:2094:HIS:CG	1:A:2096:VAL:HG22	1.90	1.06
1:B:2094:HIS:CG	1:B:2096:VAL:HG12	1.90	1.06
1:B:2112:ARG:H	1:B:2115:HIS:CG	1.73	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:D:2094:HIS:CG	1:D:2096:VAL:HG12	1.90	1.05
1:F:1013:THR:HG23	1:F:1014:TRP:H	1.15	1.05
1:F:1037:ASP:CG	1:F:1043:ARG:HG2	1.76	1.05
1:E:2094:HIS:CG	1:E:2096:VAL:HG12	1.90	1.05
1:F:2094:HIS:CG	1:F:2096:VAL:HG12	1.90	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2112:ARG:H	1:D:2115:HIS:CG	1.73	1.04
1:F:1394:HIS:HE1	1:C:2324:LYS:CD	1.70	1.04
1:F:953:ALA:HB3	1:F:1032:ILE:CD1	1.85	1.03
1:B:1013:THR:HG23	1:B:1014:TRP:H	1.15	1.02
1:F:1035:VAL:HG12	1:F:1041:ALA:HB1	1.40	1.02
1:F:1385:ARG:HH11	1:F:2411:LYS:HE2	1.20	1.01
1:F:1394:HIS:HE1	1:C:2324:LYS:HD3	1.13	1.01
1:F:992:THR:CG2	1:F:996:LEU:CG	2.39	1.01
1:E:992:THR:CG2	1:E:996:LEU:CG	2.39	1.01
1:B:992:THR:CG2	1:B:996:LEU:CG	2.39	1.01
1:C:2433:ARG:HA	1:C:2524:CYS:HB3	1.44	1.00
1:A:992:THR:CG2	1:A:996:LEU:CG	2.39	1.00
1:D:992:THR:CG2	1:D:996:LEU:CG	2.39	1.00
1:F:1037:ASP:OD1	1:F:1043:ARG:CG	2.08	1.00
1:C:992:THR:CG2	1:C:996:LEU:CG	2.39	1.00
1:D:2433:ARG:HA	1:D:2524:CYS:HB3	1.44	1.00
1:A:2433:ARG:HA	1:A:2524:CYS:HB3	1.44	0.99
1:E:1220:THR:HG22	1:E:1221:PRO:N	1.78	0.99
1:E:2433:ARG:HA	1:E:2524:CYS:HB3	1.44	0.99
1:B:2433:ARG:HA	1:B:2524:CYS:HB3	1.44	0.99
1:D:1220:THR:HG22	1:D:1221:PRO:N	1.78	0.98
1:E:792:ALA:O	1:E:2433:ARG:CG	2.12	0.98
1:F:1037:ASP:HA	1:F:1039:ALA:N	1.77	0.98
1:F:792:ALA:O	1:F:2433:ARG:CG	2.12	0.98
1:F:2407:GLU:C	1:F:2411:LYS:HG3	1.84	0.98
1:C:792:ALA:O	1:C:2433:ARG:CG	2.12	0.98
1:D:792:ALA:O	1:D:2433:ARG:CG	2.12	0.97
1:F:1385:ARG:HH11	1:F:2411:LYS:NZ	1.42	0.97
1:A:792:ALA:O	1:A:2433:ARG:CG	2.12	0.97
1:F:2433:ARG:HA	1:F:2524:CYS:HB3	1.44	0.97
1:F:1401:THR:HG21	1:C:2286:ARG:HH22	1.18	0.97
1:C:3080:ARG:HG3	1:C:3080:ARG:HH11	1.29	0.97
1:F:953:ALA:HB2	1:F:1032:ILE:HD11	1.46	0.97
1:A:1220:THR:HG22	1:A:1221:PRO:N	1.78	0.97
1:D:407:VAL:HB	1:D:933:VAL:HG11	1.47	0.97
1:F:1220:THR:HG22	1:F:1221:PRO:N	1.78	0.97
1:F:3080:ARG:HH11	1:F:3080:ARG:HG3	1.29	0.97
1:C:1220:THR:HG22	1:C:1221:PRO:N	1.78	0.96
1:C:407:VAL:HB	1:C:933:VAL:HG21	1.47	0.96
1:B:792:ALA:O	1:B:2433:ARG:CG	2.11	0.96
1:F:1385:ARG:CD	1:F:2411:LYS:NZ	2.25	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1021:LEU:HD22	1:F:1034:GLU:CG	1.96	0.96
1:A:407:VAL:HB	1:A:933:VAL:HG11	1.47	0.96
1:F:1038:ALA:CB	1:F:1126:ILE:HA	1.95	0.95
1:A:3080:ARG:HG3	1:A:3080:ARG:HH11	1.29	0.95
1:E:3080:ARG:HG3	1:E:3080:ARG:HH11	1.29	0.95
1:E:992:THR:HG21	1:E:996:LEU:CG	1.97	0.95
1:F:1039:ALA:CB	1:F:1125:VAL:CB	2.45	0.95
1:D:3080:ARG:HH11	1:D:3080:ARG:HG3	1.29	0.95
1:C:992:THR:HG21	1:C:996:LEU:CG	1.97	0.94
1:B:3080:ARG:HH11	1:B:3080:ARG:HG3	1.29	0.94
1:D:992:THR:HG21	1:D:996:LEU:CG	1.97	0.94
1:F:1385:ARG:CZ	1:F:2411:LYS:HZ1	1.78	0.94
1:F:1385:ARG:NE	1:F:2411:LYS:HZ1	1.65	0.94
1:F:1401:THR:CG2	1:C:2286:ARG:HH22	1.81	0.94
1:B:1220:THR:HG22	1:B:1221:PRO:N	1.77	0.94
1:A:992:THR:HG21	1:A:996:LEU:CG	1.97	0.94
1:F:1020:THR:H	1:F:1035:VAL:HG21	1.31	0.94
1:B:1003:HIS:CG	1:B:1004:VAL:H	1.86	0.94
1:E:407:VAL:HB	1:E:933:VAL:HG11	1.47	0.94
1:F:992:THR:HG21	1:F:996:LEU:CG	1.97	0.93
1:F:793:ARG:O	1:F:2435:LEU:CG	2.17	0.93
1:D:793:ARG:O	1:D:2435:LEU:CG	2.17	0.93
1:A:2100:ALA:O	1:A:2103:TRP:CG	2.22	0.93
1:B:2100:ALA:O	1:B:2103:TRP:CG	2.22	0.93
1:C:2100:ALA:O	1:C:2103:TRP:CG	2.22	0.93
1:B:793:ARG:O	1:B:2435:LEU:CG	2.16	0.93
1:B:1012:GLY:O	1:B:1013:THR:HG22	1.69	0.93
1:B:992:THR:HG21	1:B:996:LEU:CG	1.97	0.93
1:F:1385:ARG:HD2	1:F:2407:GLU:CD	1.89	0.93
1:A:793:ARG:O	1:A:2435:LEU:CG	2.16	0.93
1:B:407:VAL:HB	1:B:933:VAL:HG21	1.47	0.93
1:D:1012:GLY:O	1:D:1013:THR:HG22	1.69	0.93
1:D:1013:THR:HG23	1:D:1014:TRP:N	1.84	0.93
1:E:2100:ALA:O	1:E:2103:TRP:CG	2.22	0.93
1:D:2100:ALA:O	1:D:2103:TRP:CG	2.22	0.93
1:F:1037:ASP:OD2	1:F:1043:ARG:HB2	1.69	0.93
1:C:1012:GLY:O	1:C:1013:THR:HG22	1.69	0.92
1:C:1013:THR:HG23	1:C:1014:TRP:N	1.84	0.92
1:F:2100:ALA:O	1:F:2103:TRP:CG	2.22	0.92
1:C:793:ARG:O	1:C:2435:LEU:CG	2.17	0.92
1:E:793:ARG:O	1:E:2435:LEU:CG	2.16	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1012:GLY:O	1:F:1013:THR:HG22	1.69	0.92
1:F:407:VAL:HB	1:F:933:VAL:HG11	1.47	0.92
1:D:1003:HIS:CG	1:D:1004:VAL:H	1.86	0.92
1:F:1385:ARG:NH1	1:F:2411:LYS:HZ3	1.56	0.92
1:C:1003:HIS:CG	1:C:1004:VAL:H	1.86	0.92
1:F:513:SER:O	1:F:961:ARG:CZ	2.18	0.92
1:F:1003:HIS:CG	1:F:1004:VAL:H	1.86	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:F:1037:ASP:HB2	1:F:1041:ALA:HB3	1.50	0.91
1:F:1019:PHE:HE2	1:F:1034:GLU:HG2	1.35	0.91
1:B:1013:THR:HG23	1:B:1014:TRP:N	1.84	0.90
1:F:1038:ALA:HB2	1:F:1126:ILE:HA	1.54	0.90
1:A:1013:THR:HG23	1:A:1014:TRP:N	1.84	0.90
1:E:1013:THR:HG23	1:E:1014:TRP:N	1.84	0.90
1:F:1037:ASP:N	1:F:1038:ALA:HB3	1.85	0.90
1:F:959:ALA:HB1	1:F:1127:GLU:N	1.87	0.90
1:F:2407:GLU:O	1:F:2411:LYS:CG	2.19	0.89
1:E:1012:GLY:O	1:E:1013:THR:HG22	1.69	0.89
1:F:2407:GLU:HB3	1:F:2411:LYS:CE	2.02	0.89
1:F:2407:GLU:CB	1:F:2411:LYS:HE3	2.02	0.89
1:A:1003:HIS:CG	1:A:1004:VAL:H	1.86	0.89
1:E:1003:HIS:CG	1:E:1004:VAL:H	1.86	0.89
1:F:2407:GLU:HB3	1:F:2411:LYS:HE3	1.52	0.89
1:F:1039:ALA:CB	1:F:1125:VAL:HB	2.00	0.89
1:F:1039:ALA:HB2	1:F:1125:VAL:HG11	0.90	0.88
1:F:1385:ARG:HG3	1:F:2407:GLU:OE2	1.73	0.88
1:C:931:VAL:HG13	1:C:934:LEU:H	1.40	0.87
1:F:959:ALA:O	1:F:1126:ILE:HG12	1.75	0.87
1:F:1035:VAL:CG1	1:F:1041:ALA:HB1	2.04	0.86
1:A:931:VAL:HG13	1:A:934:LEU:H	1.40	0.86
1:E:931:VAL:HG13	1:E:934:LEU:H	1.40	0.86
1:B:931:VAL:HG11	1:B:933:VAL:CG2	2.06	0.86
1:C:2105:GLY:O	1:C:2108:LEU:CG	2.24	0.86
1:F:931:VAL:HG13	1:F:934:LEU:H	1.40	0.86
1:C:931:VAL:HG11	1:C:933:VAL:CG2	2.06	0.85
1:F:1385:ARG:CG	1:F:2407:GLU:OE2	2.24	0.85
1:A:2105:GLY:O	1:A:2108:LEU:CG	2.24	0.85
1:E:2865:ARG:HD3	1:B:3077:THR:HA	1.57	0.85
1:F:2105:GLY:O	1:F:2108:LEU:CG	2.25	0.85
1:B:2105:GLY:O	1:B:2108:LEU:CG	2.25	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2105:GLY:O	1:D:2108:LEU:CG	2.24	0.85
1:D:931:VAL:HG11	1:D:933:VAL:CG1	2.06	0.85
1:A:1218:THR:HG23	1:A:1441:GLN:OE1	1.77	0.85
1:F:2865:ARG:HD3	1:A:3077:THR:HA	1.57	0.85
1:C:1218:THR:HG23	1:C:1441:GLN:OE1	1.77	0.85
1:D:2865:ARG:HD3	1:C:3077:THR:HA	1.57	0.85
1:E:931:VAL:HG11	1:E:933:VAL:CG1	2.06	0.85
1:F:1037:ASP:HA	1:F:1039:ALA:H	1.42	0.85
1:F:513:SER:O	1:F:961:ARG:CD	2.25	0.85
1:A:931:VAL:HG11	1:A:933:VAL:CG1	2.06	0.85
1:E:2105:GLY:O	1:E:2108:LEU:CG	2.24	0.85
1:E:3077:THR:HA	1:B:2865:ARG:HD3	1.57	0.85
1:D:931:VAL:HG13	1:D:934:LEU:H	1.40	0.84
1:F:992:THR:HG22	1:F:996:LEU:CG	2.07	0.84
1:C:992:THR:HG22	1:C:996:LEU:CG	2.07	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:F:931:VAL:HG11	1:F:933:VAL:CG1	2.06	0.84
1:B:1218:THR:HG23	1:B:1441:GLN:OE1	1.77	0.84
1:D:1218:THR:HG23	1:D:1441:GLN:OE1	1.77	0.84
1:F:1039:ALA:HB3	1:F:1125:VAL:HB	1.57	0.84
1:B:992:THR:HG22	1:B:996:LEU:CG	2.07	0.84
1:D:3077:THR:HA	1:C:2865:ARG:HD3	1.57	0.84
1:F:1218:THR:HG23	1:F:1441:GLN:OE1	1.77	0.84
1:E:1218:THR:HG23	1:E:1441:GLN:OE1	1.77	0.84
1:F:3077:THR:HA	1:A:2865:ARG:HD3	1.57	0.83
1:A:43:PRO:HG2	1:A:348:ALA:HA	1.60	0.83
1:D:992:THR:HG22	1:D:996:LEU:CG	2.07	0.83
1:F:1385:ARG:CZ	1:F:2411:LYS:HZ3	1.86	0.83
1:F:953:ALA:CB	1:F:1032:ILE:HD12	2.09	0.83
1:F:1038:ALA:C	1:F:1125:VAL:HG12	1.98	0.83
1:E:992:THR:HG22	1:E:996:LEU:CG	2.07	0.83
1:E:43:PRO:HG2	1:E:348:ALA:HA	1.60	0.83
1:F:953:ALA:HB1	1:F:1032:ILE:HD12	1.58	0.83
1:F:1538:ARG:HH11	1:F:1722:PRO:HB3	1.43	0.83
1:B:43:PRO:HG2	1:B:348:ALA:HA	1.60	0.82
1:B:1538:ARG:HH11	1:B:1722:PRO:HB3	1.43	0.82
1:C:1538:ARG:HH11	1:C:1722:PRO:HB3	1.43	0.82
1:F:43:PRO:HG2	1:F:348:ALA:HA	1.60	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1538:ARG:HH11	1:A:1722:PRO:HB3	1.43	0.82
1:E:2730:TYR:OH	1:E:3059:ARG:NH1	2.14	0.81
1:A:2016:VAL:HG13	1:A:2020:PRO:HG3	1.62	0.81
1:A:2730:TYR:OH	1:A:3059:ARG:NH1	2.14	0.81
1:D:2016:VAL:HG13	1:D:2020:PRO:HG3	1.62	0.81
1:F:953:ALA:HB1	1:F:1032:ILE:CD1	2.10	0.81
1:B:46:VAL:HB	1:B:155:VAL:HG13	1.63	0.81
1:C:2016:VAL:HG13	1:C:2020:PRO:HG3	1.62	0.81
1:F:138:ARG:NH2	1:F:175:ASP:OD2	2.14	0.81
1:B:138:ARG:NH2	1:B:175:ASP:OD2	2.14	0.81
1:F:46:VAL:HB	1:F:155:VAL:HG13	1.63	0.81
1:C:43:PRO:HG2	1:C:348:ALA:HA	1.60	0.81
1:D:1538:ARG:HH11	1:D:1722:PRO:HB3	1.43	0.81
1:E:138:ARG:NH2	1:E:175:ASP:OD2	2.14	0.81
1:F:2016:VAL:HG13	1:F:2020:PRO:HG3	1.62	0.81
1:F:967:VAL:HA	1:F:970:ILE:HB	1.63	0.81
1:A:138:ARG:NH2	1:A:175:ASP:OD2	2.14	0.80
1:D:967:VAL:HA	1:D:970:ILE:HB	1.63	0.80
1:B:967:VAL:HA	1:B:970:ILE:HB	1.63	0.80
1:C:138:ARG:NH2	1:C:175:ASP:OD2	2.14	0.80
1:C:46:VAL:HB	1:C:155:VAL:HG13	1.63	0.80
1:C:967:VAL:HA	1:C:970:ILE:HB	1.63	0.80
1:D:2730:TYR:OH	1:D:3059:ARG:NH1	2.14	0.80
1:E:967:VAL:HA	1:E:970:ILE:HB	1.63	0.80
1:C:931:VAL:CG1	1:C:933:VAL:CG2	2.60	0.80
1:F:931:VAL:CG1	1:F:933:VAL:CG1	2.60	0.80
1:A:46:VAL:HB	1:A:155:VAL:HG13	1.63	0.80
1:B:931:VAL:CG1	1:B:933:VAL:CG2	2.60	0.80
1:E:46:VAL:HB	1:E:155:VAL:HG13	1.63	0.80
1:F:2730:TYR:OH	1:F:3059:ARG:NH1	2.14	0.80
1:A:931:VAL:CG1	1:A:933:VAL:CG1	2.60	0.80
1:E:1538:ARG:HH11	1:E:1722:PRO:HB3	1.43	0.80
1:C:2610:ARG:HH12	1:C:2700:LEU:HD11	1.47	0.80
1:D:931:VAL:CG1	1:D:933:VAL:CG1	2.60	0.80
1:C:2730:TYR:OH	1:C:3059:ARG:NH1	2.14	0.80
1:E:931:VAL:CG1	1:E:933:VAL:CG1	2.60	0.80
1:B:2730:TYR:OH	1:B:3059:ARG:NH1	2.14	0.80
1:F:273:ARG:HB2	1:F:282:VAL:H	1.47	0.80
1:B:2610:ARG:HH12	1:B:2700:LEU:HD11	1.47	0.79
1:A:967:VAL:HA	1:A:970:ILE:HB	1.63	0.79
1:E:931:VAL:HG11	1:E:933:VAL:HG13	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1220:THR:CG2	1:B:1221:PRO:N	2.46	0.79
1:A:273:ARG:HB2	1:A:282:VAL:H	1.47	0.79
1:F:1020:THR:H	1:F:1035:VAL:CG2	1.96	0.79
1:A:1220:THR:CG2	1:A:1221:PRO:N	2.46	0.79
1:A:2450:TRP:CG	1:A:3016:ALA:HB1	2.18	0.79
1:D:1220:THR:CG2	1:D:1221:PRO:N	2.46	0.79
1:F:2450:TRP:CG	1:F:3016:ALA:HB1	2.18	0.79
1:B:273:ARG:HB2	1:B:282:VAL:H	1.47	0.79
1:F:1019:PHE:CE1	1:F:1042:MET:SD	2.76	0.79
1:C:273:ARG:HB2	1:C:282:VAL:H	1.47	0.78
1:E:2610:ARG:HH12	1:E:2700:LEU:HD11	1.47	0.78
1:F:1220:THR:CG2	1:F:1221:PRO:N	2.46	0.78
1:F:2610:ARG:HH12	1:F:2700:LEU:HD11	1.47	0.78
1:D:2610:ARG:HH12	1:D:2700:LEU:HD11	1.47	0.78
1:E:2450:TRP:CG	1:E:3016:ALA:HB1	2.18	0.78
1:C:2450:TRP:CG	1:C:3016:ALA:HB1	2.18	0.78
1:E:1329:ALA:HB3	1:E:1337:MET:H	1.48	0.78
1:D:971:ALA:O	1:D:974:THR:HG22	1.84	0.78
1:A:971:ALA:O	1:A:974:THR:HG22	1.84	0.78
1:B:2450:TRP:CG	1:B:3016:ALA:HB1	2.18	0.78
1:B:971:ALA:O	1:B:974:THR:HG22	1.84	0.78
1:C:971:ALA:O	1:C:974:THR:HG22	1.84	0.78
1:F:971:ALA:O	1:F:974:THR:HG22	1.84	0.78
1:A:2451:ASP:CG	1:A:2454:ASP:OD2	2.22	0.77
1:E:971:ALA:O	1:E:974:THR:HG22	1.84	0.77
1:D:2450:TRP:CG	1:D:3016:ALA:HB1	2.18	0.77
1:F:1037:ASP:OD2	1:F:1043:ARG:CB	2.32	0.77
1:F:931:VAL:HG11	1:F:933:VAL:HG13	1.65	0.77
1:A:931:VAL:CG1	1:A:933:VAL:HG13	2.15	0.77
1:B:1329:ALA:HB3	1:B:1337:MET:H	1.48	0.77
1:D:931:VAL:HG11	1:D:933:VAL:HG13	1.65	0.77
1:F:958:TRP:HH2	1:F:1131:SER:OG	1.61	0.77
1:A:931:VAL:HG11	1:A:933:VAL:HG13	1.64	0.77
1:B:931:VAL:HG11	1:B:933:VAL:HG23	1.65	0.77
1:B:2451:ASP:CG	1:B:2454:ASP:OD2	2.22	0.77
1:E:273:ARG:HB2	1:E:282:VAL:H	1.47	0.77
1:D:2451:ASP:CG	1:D:2454:ASP:OD2	2.22	0.77
1:E:1220:THR:CG2	1:E:1221:PRO:N	2.46	0.77
1:A:1329:ALA:HB3	1:A:1337:MET:H	1.48	0.77
1:A:2610:ARG:HH12	1:A:2700:LEU:HD11	1.47	0.77
1:C:2451:ASP:CG	1:C:2454:ASP:OD2	2.22	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2112:ARG:O	1:C:2115:HIS:CG	2.38	0.77
1:C:931:VAL:CG1	1:C:933:VAL:HG23	2.15	0.77
1:C:1220:THR:CG2	1:C:1221:PRO:N	2.46	0.76
1:C:1329:ALA:HB3	1:C:1337:MET:H	1.49	0.76
1:E:931:VAL:CG1	1:E:933:VAL:HG13	2.15	0.76
1:F:931:VAL:CG1	1:F:933:VAL:HG13	2.15	0.76
1:A:2645:ASP:OD2	1:A:2691:SER:N	2.19	0.76
1:D:1003:HIS:CG	1:D:1004:VAL:N	2.53	0.76
1:D:2645:ASP:OD2	1:D:2691:SER:N	2.19	0.76
1:E:2451:ASP:CG	1:E:2454:ASP:OD2	2.22	0.76
1:F:1329:ALA:HB3	1:F:1337:MET:H	1.49	0.76
1:F:2451:ASP:CG	1:F:2454:ASP:OD2	2.22	0.76
1:A:2557:LEU:O	1:A:2613:ARG:N	2.18	0.76
1:B:1003:HIS:CG	1:B:1004:VAL:N	2.53	0.76
1:A:257:ARG:HH12	1:C:1695:LEU:HD23	1.51	0.76
1:D:1695:LEU:HD23	1:E:257:ARG:HH12	1.50	0.76
1:E:2112:ARG:O	1:E:2115:HIS:CG	2.38	0.76
1:F:1394:HIS:CE1	1:C:2324:LYS:NZ	2.54	0.76
1:F:934:LEU:O	1:F:937:ARG:CG	2.34	0.76
1:A:1695:LEU:HD23	1:B:257:ARG:HH12	1.51	0.76
1:F:1019:PHE:HE1	1:F:1042:MET:SD	2.09	0.76
1:B:1097:VAL:HB	1:B:1146:PRO:HB2	1.68	0.76
1:C:934:LEU:O	1:C:937:ARG:CG	2.34	0.76
1:D:2112:ARG:O	1:D:2115:HIS:CG	2.38	0.76
1:D:931:VAL:CG1	1:D:933:VAL:HG13	2.15	0.76
1:E:2557:LEU:O	1:E:2613:ARG:N	2.18	0.76
1:A:934:LEU:O	1:A:937:ARG:CG	2.34	0.76
1:C:931:VAL:HG11	1:C:933:VAL:HG23	1.65	0.76
1:D:1329:ALA:HB3	1:D:1337:MET:H	1.48	0.76
1:E:2645:ASP:OD2	1:E:2691:SER:N	2.19	0.76
1:B:2112:ARG:O	1:B:2115:HIS:CG	2.38	0.75
1:B:931:VAL:CG1	1:B:933:VAL:HG23	2.15	0.75
1:A:2112:ARG:O	1:A:2115:HIS:CG	2.38	0.75
1:B:934:LEU:O	1:B:937:ARG:CG	2.34	0.75
1:D:934:LEU:O	1:D:937:ARG:CG	2.34	0.75
1:F:1035:VAL:CG1	1:F:1042:MET:HG2	2.16	0.75
1:F:1028:GLY:O	1:F:1031:PRO:HD3	1.87	0.75
1:F:2112:ARG:O	1:F:2115:HIS:CG	2.38	0.75
1:E:1695:LEU:HD23	1:F:257:ARG:HH12	1.51	0.75
1:C:2645:ASP:OD2	1:C:2691:SER:N	2.19	0.75
1:E:934:LEU:O	1:E:937:ARG:CG	2.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1556:GLU:OE2	1:A:1560:ARG:NH2	2.20	0.75
1:D:1097:VAL:HB	1:D:1146:PRO:HB2	1.68	0.75
1:A:1097:VAL:HB	1:A:1146:PRO:HB2	1.68	0.75
1:B:1695:LEU:HD23	1:C:257:ARG:HH12	1.50	0.75
1:E:1097:VAL:HB	1:E:1146:PRO:HB2	1.68	0.74
1:C:1097:VAL:HB	1:C:1146:PRO:HB2	1.68	0.74
1:D:445:VAL:HG13	1:D:475:LEU:HD21	1.69	0.74
1:B:2557:LEU:O	1:B:2613:ARG:N	2.18	0.74
1:C:3015:ILE:HG12	1:C:3023:ARG:HG3	1.69	0.74
1:E:33:ALA:HB2	1:E:390:VAL:HA	1.70	0.74
1:F:1556:GLU:OE2	1:F:1560:ARG:NH2	2.20	0.74
1:F:957:LEU:O	1:F:1034:GLU:HB3	1.87	0.74
1:A:33:ALA:HB2	1:A:390:VAL:HA	1.70	0.74
1:D:3015:ILE:HG12	1:D:3023:ARG:HG3	1.69	0.74
1:E:3015:ILE:HG12	1:E:3023:ARG:HG3	1.69	0.74
1:F:445:VAL:HG13	1:F:475:LEU:HD21	1.69	0.74
1:B:1556:GLU:OE2	1:B:1560:ARG:NH2	2.20	0.74
1:C:33:ALA:HB2	1:C:390:VAL:HA	1.69	0.74
1:F:1097:VAL:HB	1:F:1146:PRO:HB2	1.68	0.74
1:C:1556:GLU:OE2	1:C:1560:ARG:NH2	2.20	0.74
1:F:2645:ASP:OD2	1:F:2691:SER:N	2.19	0.74
1:F:513:SER:C	1:F:961:ARG:NH1	2.40	0.74
1:D:1556:GLU:OE2	1:D:1560:ARG:NH2	2.20	0.74
1:D:2697:HIS:HD2	1:C:2700:LEU:HD22	1.53	0.74
1:E:445:VAL:HG13	1:E:475:LEU:HD21	1.69	0.74
1:F:960:GLY:HA2	1:F:1126:ILE:HD13	1.70	0.74
1:B:3015:ILE:HG12	1:B:3023:ARG:HG3	1.69	0.74
1:E:1556:GLU:OE2	1:E:1560:ARG:NH2	2.20	0.73
1:B:445:VAL:HG13	1:B:475:LEU:HD21	1.69	0.73
1:F:1037:ASP:CG	1:F:1043:ARG:CG	2.54	0.73
1:A:2096:VAL:O	1:A:2099:GLN:CG	2.37	0.73
1:C:2053:ALA:O	1:C:2807:ARG:NH2	2.21	0.73
1:D:2603:ARG:NH2	1:C:2612:PRO:O	2.22	0.73
1:F:2053:ALA:O	1:F:2807:ARG:NH2	2.21	0.73
1:F:2700:LEU:HD22	1:A:2697:HIS:HD2	1.53	0.73
1:D:2096:VAL:O	1:D:2099:GLN:CG	2.37	0.73
1:D:437:PRO:HG3	1:D:876:LEU:HB3	1.70	0.73
1:E:1168:ARG:N	1:E:1194:ILE:O	2.21	0.73
1:E:2612:PRO:O	1:B:2603:ARG:NH2	2.22	0.73
1:F:3015:ILE:HG12	1:F:3023:ARG:HG3	1.69	0.73
1:F:2697:HIS:HD2	1:A:2700:LEU:HD22	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:445:VAL:HG13	1:A:475:LEU:HD21	1.69	0.73
1:B:2096:VAL:O	1:B:2099:GLN:CG	2.36	0.73
1:B:2645:ASP:OD2	1:B:2691:SER:N	2.19	0.73
1:B:2883:ALA:O	1:B:2916:ARG:NH1	2.22	0.73
1:F:1037:ASP:CA	1:F:1038:ALA:HB3	2.18	0.73
1:F:2883:ALA:O	1:F:2916:ARG:NH1	2.22	0.73
1:C:2557:LEU:O	1:C:2613:ARG:N	2.18	0.73
1:D:2612:PRO:O	1:C:2603:ARG:NH2	2.22	0.73
1:F:2096:VAL:O	1:F:2099:GLN:CG	2.36	0.73
1:B:2053:ALA:O	1:B:2807:ARG:NH2	2.21	0.73
1:C:437:PRO:HG3	1:C:876:LEU:HB3	1.70	0.73
1:F:2845:PHE:HD1	1:A:2731:GLY:HA2	1.54	0.73
1:D:2053:ALA:O	1:D:2807:ARG:NH2	2.21	0.73
1:E:2096:VAL:O	1:E:2099:GLN:CG	2.37	0.73
1:F:2557:LEU:O	1:F:2613:ARG:N	2.18	0.73
1:A:3015:ILE:HG12	1:A:3023:ARG:HG3	1.69	0.72
1:A:437:PRO:HG3	1:A:876:LEU:HB3	1.70	0.72
1:B:936:ARG:HB3	1:B:941:ARG:HB3	1.71	0.72
1:D:2557:LEU:O	1:D:2613:ARG:N	2.18	0.72
1:E:2053:ALA:O	1:E:2807:ARG:NH2	2.21	0.72
1:E:2697:HIS:HD2	1:B:2700:LEU:HD22	1.53	0.72
1:C:2096:VAL:O	1:C:2099:GLN:CG	2.37	0.72
1:D:2731:GLY:HA2	1:C:2845:PHE:HD1	1.54	0.72
1:C:445:VAL:HG13	1:C:475:LEU:HD21	1.69	0.72
1:E:2883:ALA:O	1:E:2916:ARG:NH1	2.22	0.72
1:B:2998:GLY:N	1:B:3002:VAL:O	2.23	0.72
1:D:1400:PRO:HD2	1:D:1416:VAL:HG22	1.72	0.72
1:E:1003:HIS:CG	1:E:1004:VAL:N	2.53	0.72
1:F:33:ALA:HB2	1:F:390:VAL:HA	1.70	0.72
1:A:2883:ALA:O	1:A:2916:ARG:NH1	2.22	0.72
1:C:936:ARG:HB3	1:C:941:ARG:HB3	1.71	0.72
1:A:2053:ALA:O	1:A:2807:ARG:NH2	2.21	0.72
1:E:2603:ARG:NH2	1:B:2612:PRO:O	2.22	0.72
1:B:437:PRO:HG3	1:B:876:LEU:HB3	1.70	0.72
1:C:2883:ALA:O	1:C:2916:ARG:NH1	2.22	0.72
1:D:1168:ARG:N	1:D:1194:ILE:O	2.21	0.72
1:E:437:PRO:HG3	1:E:876:LEU:HB3	1.70	0.72
1:E:936:ARG:HB3	1:E:941:ARG:HB3	1.71	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:2998:GLY:N	1:A:3002:VAL:O	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1168:ARG:N	1:B:1194:ILE:O	2.21	0.72
1:E:1253:ARG:HH11	1:E:1253:ARG:HG3	1.54	0.72
1:D:1237:ARG:NH1	1:E:95:PRO:HB2	2.05	0.72
1:F:1020:THR:N	1:F:1035:VAL:HG21	2.03	0.72
1:F:1168:ARG:N	1:F:1194:ILE:O	2.21	0.72
1:F:2103:TRP:CG	1:F:2104:GLN:N	2.58	0.72
1:F:2731:GLY:HA2	1:A:2845:PHE:HD1	1.54	0.72
1:F:437:PRO:HG3	1:F:876:LEU:HB3	1.70	0.72
1:A:1168:ARG:N	1:A:1194:ILE:O	2.21	0.72
1:F:2612:PRO:O	1:A:2603:ARG:NH2	2.22	0.72
1:F:2603:ARG:NH2	1:A:2612:PRO:O	2.22	0.72
1:B:33:ALA:HB2	1:B:390:VAL:HA	1.69	0.72
1:C:1168:ARG:N	1:C:1194:ILE:O	2.21	0.72
1:D:2700:LEU:HD22	1:C:2697:HIS:HD2	1.53	0.72
1:D:2998:GLY:N	1:D:3002:VAL:O	2.23	0.72
1:F:1394:HIS:CE1	1:C:2324:LYS:CD	2.56	0.72
1:F:936:ARG:HB3	1:F:941:ARG:HB3	1.71	0.72
1:B:1218:THR:CG2	1:B:1441:GLN:OE1	2.38	0.72
1:B:2103:TRP:CG	1:B:2104:GLN:N	2.58	0.72
1:E:2845:PHE:HD1	1:B:2731:GLY:HA2	1.54	0.72
1:E:2731:GLY:HA2	1:B:2845:PHE:HD1	1.54	0.72
1:B:2268:GLN:OE1	1:B:2319:ARG:NH1	2.23	0.72
1:A:936:ARG:HB3	1:A:941:ARG:HB3	1.71	0.71
1:B:1400:PRO:HD2	1:B:1416:VAL:HG22	1.72	0.71
1:D:2103:TRP:CG	1:D:2104:GLN:N	2.58	0.71
1:D:2883:ALA:O	1:D:2916:ARG:NH1	2.22	0.71
1:C:1218:THR:CG2	1:C:1441:GLN:OE1	2.38	0.71
1:C:2268:GLN:OE1	1:C:2319:ARG:NH1	2.23	0.71
1:C:2998:GLY:N	1:C:3002:VAL:O	2.23	0.71
1:D:1218:THR:CG2	1:D:1441:GLN:OE1	2.38	0.71
1:E:2103:TRP:CG	1:E:2104:GLN:N	2.58	0.71
1:D:2282:ASP:HB3	1:B:1390:PHE:HA	1.72	0.71
1:F:2268:GLN:OE1	1:F:2319:ARG:NH1	2.23	0.71
1:C:2103:TRP:CG	1:C:2104:GLN:N	2.58	0.71
1:A:95:PRO:HB2	1:C:1237:ARG:NH1	2.05	0.71
1:B:70:SER:OG	1:B:142:ARG:NH2	2.23	0.71
1:A:1237:ARG:NH1	1:B:95:PRO:HB2	2.05	0.71
1:E:2700:LEU:HD22	1:B:2697:HIS:HD2	1.53	0.71
1:F:959:ALA:O	1:F:1126:ILE:CG1	2.38	0.71
1:E:1237:ARG:NH1	1:F:95:PRO:HB2	2.05	0.71
1:C:580:ARG:HD2	1:C:614:GLY:HA3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2861:LEU:HD21	1:C:3075:LEU:HD23	1.72	0.71
1:E:3075:LEU:HD23	1:B:2861:LEU:HD21	1.72	0.71
1:A:2268:GLN:OE1	1:A:2319:ARG:NH1	2.24	0.71
1:E:2268:GLN:OE1	1:E:2319:ARG:NH1	2.23	0.71
1:F:2861:LEU:HD21	1:A:3075:LEU:HD23	1.72	0.71
1:D:1390:PHE:HA	1:B:2282:ASP:HB3	1.72	0.71
1:D:2268:GLN:OE1	1:D:2319:ARG:NH1	2.23	0.71
1:D:3075:LEU:HD23	1:C:2861:LEU:HD21	1.72	0.71
1:F:1218:THR:CG2	1:F:1441:GLN:OE1	2.38	0.71
1:F:2215:THR:HB	1:F:2229:LYS:HB2	1.73	0.71
1:F:2998:GLY:N	1:F:3002:VAL:O	2.23	0.71
1:A:2103:TRP:CG	1:A:2104:GLN:N	2.58	0.71
1:E:1218:THR:CG2	1:E:1441:GLN:OE1	2.38	0.71
1:E:2743:ALA:HB1	1:E:2940:VAL:HG23	1.73	0.71
1:F:1385:ARG:HD2	1:F:2411:LYS:HZ2	1.56	0.71
1:F:1385:ARG:NH1	1:F:2411:LYS:HE2	1.93	0.71
1:C:70:SER:OG	1:C:142:ARG:NH2	2.23	0.71
1:E:580:ARG:HD2	1:E:614:GLY:HA3	1.73	0.71
1:F:2743:ALA:HB1	1:F:2940:VAL:HG23	1.73	0.71
1:D:2845:PHE:HD1	1:C:2731:GLY:HA2	1.54	0.70
1:E:70:SER:OG	1:E:142:ARG:NH2	2.23	0.70
1:E:1507:GLN:O	1:E:1562:ARG:NH1	2.24	0.70
1:E:2998:GLY:N	1:E:3002:VAL:O	2.23	0.70
1:F:1394:HIS:CE1	1:C:2324:LYS:HZ2	2.08	0.70
1:F:2558:LEU:HG	1:F:2612:PRO:HA	1.73	0.70
1:A:1400:PRO:HD2	1:A:1416:VAL:HG22	1.72	0.70
1:B:1507:GLN:O	1:B:1562:ARG:NH1	2.24	0.70
1:D:1253:ARG:HH11	1:D:1253:ARG:HG3	1.55	0.70
1:D:1634:ARG:HH11	1:D:1639:ALA:H	1.39	0.70
1:D:580:ARG:HD2	1:D:614:GLY:HA3	1.73	0.70
1:E:2282:ASP:HB3	1:A:1390:PHE:HA	1.72	0.70
1:F:1507:GLN:O	1:F:1562:ARG:NH1	2.24	0.70
1:A:1507:GLN:O	1:A:1562:ARG:NH1	2.24	0.70
1:F:3075:LEU:HD23	1:A:2861:LEU:HD21	1.72	0.70
1:A:580:ARG:HD2	1:A:614:GLY:HA3	1.73	0.70
1:B:1253:ARG:HH11	1:B:1253:ARG:HG3	1.55	0.70
1:B:2558:LEU:HG	1:B:2612:PRO:HA	1.74	0.70
1:E:1634:ARG:HH11	1:E:1639:ALA:H	1.39	0.70
1:C:1400:PRO:HD2	1:C:1416:VAL:HG22	1.72	0.70
1:C:1507:GLN:O	1:C:1562:ARG:NH1	2.24	0.70
1:F:1003:HIS:CG	1:F:1004:VAL:N	2.53	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1022:THR:O	1:F:1033:VAL:HB	1.91	0.70
1:F:1253:ARG:HG3	1:F:1253:ARG:HH11	1.54	0.70
1:A:70:SER:OG	1:A:142:ARG:NH2	2.23	0.70
1:A:1634:ARG:HH11	1:A:1639:ALA:H	1.39	0.70
1:A:2743:ALA:HB1	1:A:2940:VAL:HG23	1.73	0.70
1:A:974:THR:HG21	1:A:977:GLN:HB3	1.74	0.70
1:C:1253:ARG:HH11	1:C:1253:ARG:HG3	1.54	0.70
1:D:2860:ALA:HB3	1:D:2906:LEU:HD21	1.73	0.70
1:E:1400:PRO:HD2	1:E:1416:VAL:HG22	1.72	0.70
1:F:580:ARG:HD2	1:F:614:GLY:HA3	1.72	0.70
1:A:1218:THR:CG2	1:A:1441:GLN:OE1	2.38	0.70
1:B:1634:ARG:HH11	1:B:1639:ALA:H	1.39	0.70
1:F:2282:ASP:HB3	1:C:1390:PHE:HA	1.72	0.70
1:C:1634:ARG:HH11	1:C:1639:ALA:H	1.39	0.70
1:D:1507:GLN:O	1:D:1562:ARG:NH1	2.24	0.70
1:D:936:ARG:HB3	1:D:941:ARG:HB3	1.72	0.70
1:E:1390:PHE:HA	1:A:2282:ASP:HB3	1.72	0.70
1:B:2215:THR:HB	1:B:2229:LYS:HB2	1.74	0.70
1:B:1237:ARG:NH1	1:C:95:PRO:HB2	2.05	0.70
1:D:1177:ARG:HB2	1:D:1184:LEU:HD23	1.74	0.70
1:F:137:VAL:HG22	1:F:354:LEU:HD13	1.74	0.70
1:F:1400:PRO:HD2	1:F:1416:VAL:HG22	1.72	0.70
1:A:2860:ALA:HB3	1:A:2906:LEU:HD21	1.73	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:B:137:VAL:HG22	1:B:354:LEU:HD13	1.74	0.70
1:E:1035:VAL:HG12	1:E:1037:ASP:H	1.57	0.70
1:F:1035:VAL:HG12	1:F:1041:ALA:CB	2.18	0.70
1:E:974:THR:HG21	1:E:977:GLN:HB3	1.74	0.70
1:A:2558:LEU:HG	1:A:2612:PRO:HA	1.73	0.69
1:E:2861:LEU:HD21	1:B:3075:LEU:HD23	1.72	0.69
1:C:2860:ALA:HB3	1:C:2906:LEU:HD21	1.73	0.69
1:F:1177:ARG:HB2	1:F:1184:LEU:HD23	1.74	0.69
1:E:137:VAL:HG22	1:E:354:LEU:HD13	1.74	0.69
1:E:1724:TYR:OH	1:F:267:GLU:OE2	2.07	0.69
1:A:2215:THR:HB	1:A:2229:LYS:HB2	1.74	0.69
1:B:1177:ARG:HB2	1:B:1184:LEU:HD23	1.74	0.69
1:C:2215:THR:HB	1:C:2229:LYS:HB2	1.74	0.69
1:D:2085:LEU:O	1:D:2088:ARG:CG	2.40	0.69
1:E:2860:ALA:HB3	1:E:2906:LEU:HD21	1.73	0.69
1:F:1012:GLY:O	1:F:1013:THR:CG2	2.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1035:VAL:HG12	1:A:1037:ASP:H	1.57	0.69
1:D:2215:THR:HB	1:D:2229:LYS:HB2	1.73	0.69
1:B:1035:VAL:HG12	1:B:1037:ASP:H	1.57	0.69
1:C:137:VAL:HG22	1:C:354:LEU:HD13	1.74	0.69
1:F:1019:PHE:CE2	1:F:1034:GLU:HG2	2.24	0.69
1:D:1046:LEU:HD13	1:D:1129:LEU:HD22	1.75	0.69
1:E:2215:THR:HB	1:E:2229:LYS:HB2	1.73	0.69
1:C:1046:LEU:HD13	1:C:1129:LEU:HD22	1.75	0.69
1:A:137:VAL:HG22	1:A:354:LEU:HD13	1.74	0.69
1:B:2647:VAL:HG22	1:B:2769:ASP:HB2	1.75	0.69
1:C:2085:LEU:O	1:C:2088:ARG:CG	2.41	0.69
1:C:2558:LEU:HG	1:C:2612:PRO:HA	1.73	0.69
1:D:1035:VAL:HG12	1:D:1037:ASP:H	1.57	0.69
1:F:2860:ALA:HB3	1:F:2906:LEU:HD21	1.73	0.69
1:F:2946:LEU:HD11	1:F:2992:GLY:HA3	1.75	0.69
1:F:513:SER:O	1:F:961:ARG:HD2	1.90	0.69
1:A:1012:GLY:O	1:A:1013:THR:CG2	2.41	0.69
1:F:3075:LEU:HD21	1:A:2909:ARG:HB3	1.75	0.69
1:C:1177:ARG:HB2	1:C:1184:LEU:HD23	1.74	0.69
1:D:974:THR:HG21	1:D:977:GLN:HB3	1.74	0.69
1:B:2860:ALA:HB3	1:B:2906:LEU:HD21	1.73	0.68
1:B:2946:LEU:HD11	1:B:2992:GLY:HA3	1.75	0.68
1:C:974:THR:HG21	1:C:977:GLN:HB3	1.74	0.68
1:D:2647:VAL:HG22	1:D:2769:ASP:HB2	1.75	0.68
1:D:2946:LEU:HD11	1:D:2992:GLY:HA3	1.75	0.68
1:E:2085:LEU:O	1:E:2088:ARG:CG	2.41	0.68
1:F:2557:LEU:HG	1:A:2702:GLY:HA3	1.76	0.68
1:F:974:THR:HG21	1:F:977:GLN:HB3	1.74	0.68
1:A:1046:LEU:HD13	1:A:1129:LEU:HD22	1.75	0.68
1:C:2647:VAL:HG22	1:C:2769:ASP:HB2	1.75	0.68
1:C:2743:ALA:HB1	1:C:2940:VAL:HG23	1.73	0.68
1:E:340:ILE:HD13	1:E:364:THR:HG21	1.75	0.68
1:F:1021:LEU:CD2	1:F:1034:GLU:HG3	2.14	0.68
1:F:2647:VAL:HG22	1:F:2769:ASP:HB2	1.75	0.68
1:E:1046:LEU:HD13	1:E:1129:LEU:HD22	1.75	0.68
1:F:1385:ARG:NH1	1:F:2411:LYS:HZ1	1.64	0.68
1:A:1177:ARG:HB2	1:A:1184:LEU:HD23	1.74	0.68
1:E:2909:ARG:HB3	1:B:3075:LEU:HD21	1.75	0.68
1:B:511:ARG:HD3	1:B:543:GLY:HA3	1.76	0.68
1:B:580:ARG:HD2	1:B:614:GLY:HA3	1.73	0.68
1:C:1035:VAL:HG12	1:C:1037:ASP:H	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2946:LEU:HD11	1:C:2992:GLY:HA3	1.75	0.68
1:D:2558:LEU:HG	1:D:2612:PRO:HA	1.74	0.68
1:F:2085:LEU:O	1:F:2088:ARG:CG	2.40	0.68
1:B:1002:GLN:O	1:B:1003:HIS:CG	2.47	0.68
1:B:1012:GLY:O	1:B:1013:THR:CG2	2.41	0.68
1:B:2085:LEU:O	1:B:2088:ARG:CG	2.41	0.68
1:B:269:GLU:HB3	1:B:282:VAL:HA	1.76	0.68
1:D:2743:ALA:HB1	1:D:2940:VAL:HG23	1.73	0.68
1:A:2647:VAL:HG22	1:A:2769:ASP:HB2	1.75	0.68
1:A:267:GLU:OE2	1:C:1724:TYR:OH	2.07	0.68
1:C:269:GLU:HB3	1:C:282:VAL:HA	1.75	0.68
1:D:3075:LEU:HD21	1:C:2909:ARG:HB3	1.76	0.68
1:E:1008:VAL:HG12	1:E:1019:PHE:HB3	1.76	0.68
1:E:1177:ARG:HB2	1:E:1184:LEU:HD23	1.74	0.68
1:A:2085:LEU:O	1:A:2088:ARG:CG	2.41	0.68
1:A:340:ILE:HD13	1:A:364:THR:HG21	1.75	0.68
1:C:1008:VAL:HG22	1:C:1019:PHE:HB3	1.76	0.68
1:D:1008:VAL:HG12	1:D:1019:PHE:HB3	1.76	0.68
1:D:2557:LEU:HG	1:C:2702:GLY:HA3	1.76	0.68
1:A:2946:LEU:HD11	1:A:2992:GLY:HA3	1.75	0.68
1:B:1164:THR:N	1:B:1167:GLY:O	2.25	0.68
1:D:1164:THR:N	1:D:1167:GLY:O	2.25	0.68
1:D:2702:GLY:HA3	1:C:2557:LEU:HG	1.76	0.68
1:C:1488:VAL:HG21	1:C:1580:PRO:HD2	1.76	0.68
1:F:1401:THR:CG2	1:C:2286:ARG:NH2	2.42	0.68
1:A:1003:HIS:CG	1:A:1004:VAL:N	2.53	0.67
1:B:1046:LEU:HD13	1:B:1129:LEU:HD22	1.75	0.67
1:B:340:ILE:HD13	1:B:364:THR:HG21	1.75	0.67
1:D:2112:ARG:N	1:D:2115:HIS:CG	2.57	0.67
1:E:2946:LEU:HD11	1:E:2992:GLY:HA3	1.75	0.67
1:F:1634:ARG:HH11	1:F:1639:ALA:H	1.39	0.67
1:A:2126:ALA:O	1:A:2129:PRO:CG	2.43	0.67
1:B:931:VAL:CG1	1:B:933:VAL:HG22	2.24	0.67
1:D:1002:GLN:O	1:D:1003:HIS:CG	2.47	0.67
1:D:511:ARG:HD3	1:D:543:GLY:HA3	1.76	0.67
1:E:2702:GLY:HA3	1:B:2557:LEU:HG	1.76	0.67
1:F:1002:GLN:O	1:F:1003:HIS:CG	2.47	0.67
1:E:2748:GLU:HG2	1:B:2753:LYS:HZ2	1.60	0.67
1:C:1002:GLN:O	1:C:1003:HIS:CG	2.47	0.67
1:D:1488:VAL:HG21	1:D:1580:PRO:HD2	1.76	0.67
1:E:269:GLU:HB3	1:E:282:VAL:HA	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:931:VAL:CG1	1:E:933:VAL:HG12	2.25	0.67
1:F:1046:LEU:HD13	1:F:1129:LEU:HD22	1.75	0.67
1:F:2081:GLN:O	1:F:2084:GLN:CG	2.43	0.67
1:A:792:ALA:HA	1:A:799:PHE:HE2	1.60	0.67
1:B:974:THR:HG21	1:B:977:GLN:HB3	1.74	0.67
1:C:1003:HIS:CG	1:C:1004:VAL:N	2.53	0.67
1:C:1012:GLY:O	1:C:1013:THR:CG2	2.41	0.67
1:C:1164:THR:N	1:C:1167:GLY:O	2.25	0.67
1:C:2081:GLN:O	1:C:2084:GLN:CG	2.43	0.67
1:C:340:ILE:HD13	1:C:364:THR:HG21	1.75	0.67
1:D:1012:GLY:O	1:D:1013:THR:CG2	2.41	0.67
1:B:2126:ALA:O	1:B:2129:PRO:CG	2.43	0.67
1:C:931:VAL:CG1	1:C:933:VAL:HG22	2.25	0.67
1:A:1008:VAL:HG12	1:A:1019:PHE:HB3	1.76	0.67
1:D:931:VAL:CG1	1:D:933:VAL:HG12	2.25	0.67
1:E:3075:LEU:HD21	1:B:2909:ARG:HB3	1.76	0.67
1:A:269:GLU:HB3	1:A:282:VAL:HA	1.75	0.67
1:F:340:ILE:HD13	1:F:364:THR:HG21	1.75	0.67
1:F:511:ARG:HD3	1:F:543:GLY:HA3	1.76	0.67
1:F:792:ALA:HA	1:F:799:PHE:HE2	1.60	0.67
1:C:1168:ARG:HB2	1:C:1197:ARG:HB2	1.77	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:C:511:ARG:HD3	1:C:543:GLY:HA3	1.76	0.66
1:D:1488:VAL:HG12	1:D:1490:ARG:NH1	2.10	0.66
1:D:3080:ARG:HH11	1:D:3080:ARG:CG	2.07	0.66
1:D:683:GLY:HA2	1:D:700:ASN:HB2	1.77	0.66
1:F:2094:HIS:CG	1:F:2096:VAL:CG1	2.75	0.66
1:F:2909:ARG:HB3	1:A:3075:LEU:HD21	1.75	0.66
1:B:2081:GLN:O	1:B:2084:GLN:CG	2.43	0.66
1:B:511:ARG:HB2	1:B:540:ASN:HB2	1.77	0.66
1:C:1167:GLY:HA3	1:C:1195:ARG:HA	1.77	0.66
1:C:1358:GLN:HG2	1:C:1423:THR:HG23	1.78	0.66
1:C:683:GLY:HA2	1:C:700:ASN:HB2	1.78	0.66
1:D:792:ALA:HA	1:D:799:PHE:HE2	1.60	0.66
1:E:2081:GLN:O	1:E:2084:GLN:CG	2.43	0.66
1:F:1008:VAL:HG22	1:F:1019:PHE:HB3	1.76	0.66
1:F:269:GLU:HB3	1:F:282:VAL:HA	1.75	0.66
1:A:1002:GLN:O	1:A:1003:HIS:CG	2.47	0.66
1:A:1167:GLY:HA3	1:A:1195:ARG:HA	1.78	0.66
1:A:511:ARG:HB2	1:A:540:ASN:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:511:ARG:HD3	1:A:543:GLY:HA3	1.76	0.66
1:B:3080:ARG:CG	1:B:3080:ARG:HH11	2.07	0.66
1:C:2094:HIS:CG	1:C:2096:VAL:CG2	2.75	0.66
1:C:2126:ALA:O	1:C:2129:PRO:CG	2.43	0.66
1:C:792:ALA:HA	1:C:799:PHE:HE2	1.60	0.66
1:D:1167:GLY:HA3	1:D:1195:ARG:HA	1.78	0.66
1:D:2126:ALA:O	1:D:2129:PRO:CG	2.43	0.66
1:F:511:ARG:HB2	1:F:540:ASN:HB2	1.78	0.66
1:F:666:VAL:HG21	1:F:904:VAL:HB	1.78	0.66
1:A:1132:LEU:HD11	1:A:1192:PHE:HB3	1.78	0.66
1:B:1008:VAL:HG22	1:B:1019:PHE:HB3	1.76	0.66
1:B:35:VAL:HG11	1:B:147:LEU:HB3	1.78	0.66
1:B:1488:VAL:HG12	1:B:1490:ARG:NH1	2.10	0.66
1:B:666:VAL:HG21	1:B:904:VAL:HB	1.78	0.66
1:C:1488:VAL:HG12	1:C:1490:ARG:NH1	2.10	0.66
1:D:2081:GLN:O	1:D:2084:GLN:CG	2.43	0.66
1:E:1167:GLY:HA3	1:E:1195:ARG:HA	1.78	0.66
1:E:2112:ARG:N	1:E:2115:HIS:CG	2.57	0.66
1:F:1358:GLN:HG2	1:F:1423:THR:HG23	1.78	0.66
1:F:1488:VAL:HG12	1:F:1490:ARG:NH1	2.10	0.66
1:F:2112:ARG:N	1:F:2115:HIS:CG	2.57	0.66
1:A:1488:VAL:HG21	1:A:1580:PRO:HD2	1.76	0.66
1:D:1168:ARG:HB2	1:D:1197:ARG:HB2	1.77	0.66
1:D:511:ARG:HB2	1:D:540:ASN:HB2	1.77	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:E:511:ARG:HB2	1:E:540:ASN:HB2	1.78	0.66
1:A:1358:GLN:HG2	1:A:1423:THR:HG23	1.78	0.66
1:A:2081:GLN:O	1:A:2084:GLN:CG	2.43	0.66
1:E:1132:LEU:HD11	1:E:1192:PHE:HB3	1.78	0.66
1:E:1358:GLN:HG2	1:E:1423:THR:HG23	1.78	0.66
1:E:2679:ALA:HB3	1:E:2762:VAL:HG12	1.78	0.66
1:E:792:ALA:HA	1:E:799:PHE:HE2	1.60	0.66
1:A:1412:HIS:ND1	1:A:1415:GLY:O	2.26	0.66
1:A:2679:ALA:HB3	1:A:2762:VAL:HG12	1.78	0.66
1:B:1412:HIS:ND1	1:B:1415:GLY:O	2.26	0.66
1:D:2909:ARG:HB3	1:C:3075:LEU:HD21	1.75	0.66
1:D:2591:ARG:HH12	1:F:2012:GLY:C	1.99	0.66
1:F:1412:HIS:HD2	1:F:1413:PRO:HD2	1.61	0.66
1:F:2126:ALA:O	1:F:2129:PRO:CG	2.43	0.66
1:F:2679:ALA:HB3	1:F:2762:VAL:HG12	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1084:THR:HG21	1:A:1274:ALA:HA	1.78	0.66
1:A:931:VAL:CG1	1:A:933:VAL:HG12	2.25	0.66
1:C:997:GLU:O	1:C:1009:PRO:N	2.29	0.66
1:E:1012:GLY:O	1:E:1013:THR:CG2	2.41	0.66
1:E:1412:HIS:HD2	1:E:1413:PRO:HD2	1.61	0.66
1:E:2012:GLY:C	1:F:2591:ARG:HH12	1.99	0.66
1:E:2094:HIS:CG	1:E:2096:VAL:CG1	2.75	0.66
1:D:2012:GLY:C	1:E:2591:ARG:HH12	1.99	0.66
1:F:1084:THR:HG21	1:F:1274:ALA:HA	1.78	0.66
1:A:2112:ARG:N	1:A:2115:HIS:CG	2.57	0.66
1:E:997:GLU:O	1:E:1009:PRO:N	2.29	0.66
1:F:1132:LEU:HD11	1:F:1192:PHE:HB3	1.78	0.66
1:F:2702:GLY:HA3	1:A:2557:LEU:HG	1.76	0.66
1:A:997:GLU:O	1:A:1009:PRO:N	2.29	0.66
1:B:997:GLU:O	1:B:1009:PRO:N	2.29	0.66
1:B:1132:LEU:HD11	1:B:1192:PHE:HB3	1.78	0.66
1:C:1412:HIS:HD2	1:C:1413:PRO:HD2	1.60	0.66
1:D:997:GLU:O	1:D:1009:PRO:N	2.29	0.66
1:F:1488:VAL:HG21	1:F:1580:PRO:HD2	1.77	0.66
1:F:931:VAL:CG1	1:F:933:VAL:HG12	2.25	0.66
1:B:1167:GLY:HA3	1:B:1195:ARG:HA	1.78	0.65
1:E:1084:THR:HG21	1:E:1274:ALA:HA	1.78	0.65
1:F:683:GLY:HA2	1:F:700:ASN:HB2	1.78	0.65
1:A:1168:ARG:HB2	1:A:1197:ARG:HB2	1.77	0.65
1:B:1084:THR:HG21	1:B:1274:ALA:HA	1.78	0.65
1:B:2112:ARG:N	1:B:2115:HIS:CG	2.57	0.65
1:B:2679:ALA:HB3	1:B:2762:VAL:HG12	1.78	0.65
1:C:1536:ASN:HA	1:C:1679:TRP:HB3	1.78	0.65
1:C:3080:ARG:HH11	1:C:3080:ARG:CG	2.07	0.65
1:E:511:ARG:HD3	1:E:543:GLY:HA3	1.76	0.65
1:E:666:VAL:HG21	1:E:904:VAL:HB	1.78	0.65
1:B:1168:ARG:HB2	1:B:1197:ARG:HB2	1.77	0.65
1:B:683:GLY:HA2	1:B:700:ASN:HB2	1.78	0.65
1:C:2706:PRO:HG2	1:C:2709:ILE:HG23	1.79	0.65
1:D:450:ASN:HA	1:D:483:ARG:HH11	1.62	0.65
1:E:1488:VAL:HG12	1:E:1490:ARG:NH1	2.10	0.65
1:E:203:ASP:OD1	1:E:204:ARG:N	2.29	0.65
1:E:2876:LEU:HD11	1:E:2886:ILE:HD11	1.79	0.65
1:F:997:GLU:O	1:F:1009:PRO:N	2.29	0.65
1:A:643:ILE:HD12	1:A:915:PHE:HZ	1.62	0.65
1:E:2557:LEU:HG	1:B:2702:GLY:HA3	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:792:ALA:HA	1:B:799:PHE:HE2	1.60	0.65
1:C:1534:ASN:HB2	1:C:1543:ALA:HB3	1.79	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:E:1534:ASN:HB2	1:E:1543:ALA:HB3	1.78	0.65
1:E:2706:PRO:HG2	1:E:2709:ILE:HG23	1.79	0.65
1:F:1534:ASN:HB2	1:F:1543:ALA:HB3	1.79	0.65
1:A:1536:ASN:HA	1:A:1679:TRP:HB3	1.79	0.65
1:A:203:ASP:OD1	1:A:204:ARG:N	2.29	0.65
1:A:2591:ARG:HH12	1:C:2012:GLY:C	1.99	0.65
1:C:203:ASP:OD1	1:C:204:ARG:N	2.30	0.65
1:D:2876:LEU:HD11	1:D:2886:ILE:HD11	1.79	0.65
1:E:1168:ARG:HB2	1:E:1197:ARG:HB2	1.77	0.65
1:E:1536:ASN:HA	1:E:1679:TRP:HB3	1.78	0.65
1:A:1488:VAL:HG12	1:A:1490:ARG:NH1	2.10	0.65
1:A:2876:LEU:HD11	1:A:2886:ILE:HD11	1.79	0.65
1:A:929:GLU:O	1:A:930:PRO:CG	2.45	0.65
1:B:1534:ASN:HB2	1:B:1543:ALA:HB3	1.78	0.65
1:B:203:ASP:OD1	1:B:204:ARG:N	2.30	0.65
1:D:1358:GLN:HG2	1:D:1423:THR:HG23	1.78	0.65
1:E:683:GLY:HA2	1:E:700:ASN:HB2	1.78	0.65
1:F:1168:ARG:HB2	1:F:1197:ARG:HB2	1.77	0.65
1:A:56:LEU:HD22	1:A:119:LEU:HD13	1.79	0.65
1:A:1534:ASN:HB2	1:A:1543:ALA:HB3	1.78	0.65
1:A:2652:ILE:HG12	1:A:2722:VAL:HG22	1.79	0.65
1:C:1084:THR:HG21	1:C:1274:ALA:HA	1.78	0.65
1:C:35:VAL:HG11	1:C:147:LEU:HB3	1.77	0.65
1:B:2012:GLY:C	1:C:2591:ARG:HH12	1.99	0.65
1:D:1132:LEU:HD11	1:D:1192:PHE:HB3	1.78	0.65
1:D:1534:ASN:HB2	1:D:1543:ALA:HB3	1.78	0.65
1:E:643:ILE:HD12	1:E:915:PHE:HZ	1.62	0.65
1:A:2094:HIS:CG	1:A:2096:VAL:CG2	2.75	0.65
1:A:2252:VAL:HA	1:A:2255:ARG:HE	1.62	0.65
1:A:2706:PRO:HG2	1:A:2709:ILE:HG23	1.78	0.65
1:B:643:ILE:HD12	1:B:915:PHE:HZ	1.62	0.65
1:C:511:ARG:HB2	1:C:540:ASN:HB2	1.77	0.65
1:D:1084:THR:HG21	1:D:1274:ALA:HA	1.78	0.65
1:F:1167:GLY:HA3	1:F:1195:ARG:HA	1.77	0.65
1:F:450:ASN:HA	1:F:483:ARG:HH11	1.62	0.65
1:F:929:GLU:O	1:F:930:PRO:CG	2.45	0.65
1:A:35:VAL:HG11	1:A:147:LEU:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1358:GLN:HG2	1:B:1423:THR:HG23	1.78	0.65
1:D:2706:PRO:HG2	1:D:2709:ILE:HG23	1.78	0.65
1:D:929:GLU:O	1:D:930:PRO:CG	2.45	0.65
1:E:450:ASN:HA	1:E:483:ARG:HH11	1.62	0.65
1:A:1164:THR:N	1:A:1167:GLY:O	2.25	0.65
1:B:450:ASN:HA	1:B:483:ARG:HH11	1.62	0.65
1:C:2652:ILE:HG12	1:C:2722:VAL:HG22	1.79	0.65
1:E:35:VAL:HG11	1:E:147:LEU:HB3	1.78	0.65
1:F:56:LEU:HD22	1:F:119:LEU:HD13	1.79	0.65
1:A:1412:HIS:HD2	1:A:1413:PRO:HD2	1.61	0.64
1:A:450:ASN:HA	1:A:483:ARG:HH11	1.62	0.64
1:A:683:GLY:HA2	1:A:700:ASN:HB2	1.77	0.64
1:B:1488:VAL:HG21	1:B:1580:PRO:HD2	1.77	0.64
1:A:2012:GLY:C	1:B:2591:ARG:HH12	1.99	0.64
1:B:793:ARG:HD3	1:B:2435:LEU:CG	2.27	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:929:GLU:O	1:B:930:PRO:CG	2.45	0.64
1:D:2652:ILE:HG12	1:D:2722:VAL:HG22	1.79	0.64
1:D:2679:ALA:HB3	1:D:2762:VAL:HG12	1.78	0.64
1:E:1488:VAL:HG21	1:E:1580:PRO:HD2	1.77	0.64
1:F:2876:LEU:HD11	1:F:2886:ILE:HD11	1.79	0.64
1:F:42:GLU:HB3	1:F:349:ARG:HG3	1.79	0.64
1:F:793:ARG:HD3	1:F:2435:LEU:CG	2.27	0.64
1:A:793:ARG:HD3	1:A:2435:LEU:CG	2.27	0.64
1:A:666:VAL:HG21	1:A:904:VAL:HB	1.78	0.64
1:B:56:LEU:HD22	1:B:119:LEU:HD13	1.79	0.64
1:C:1412:HIS:ND1	1:C:1415:GLY:O	2.26	0.64
1:C:793:ARG:HD3	1:C:2435:LEU:CG	2.27	0.64
1:C:666:VAL:HG21	1:C:904:VAL:HB	1.78	0.64
1:F:1164:THR:N	1:F:1167:GLY:O	2.25	0.64
1:F:203:ASP:OD1	1:F:204:ARG:N	2.29	0.64
1:D:666:VAL:HG21	1:D:904:VAL:HB	1.78	0.64
1:E:2252:VAL:HA	1:E:2255:ARG:HE	1.62	0.64
1:E:2652:ILE:HG12	1:E:2722:VAL:HG22	1.79	0.64
1:C:450:ASN:HA	1:C:483:ARG:HH11	1.62	0.64
1:E:1417:LEU:O	1:E:1423:THR:OG1	2.14	0.64
1:B:1412:HIS:HD2	1:B:1413:PRO:HD2	1.61	0.64
1:C:929:GLU:O	1:C:930:PRO:CG	2.45	0.64
1:D:2094:HIS:CG	1:D:2096:VAL:CG1	2.75	0.64
1:D:793:ARG:HD3	1:D:2435:LEU:CG	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:929:GLU:O	1:E:930:PRO:CG	2.45	0.64
1:C:1132:LEU:HD11	1:C:1192:PHE:HB3	1.78	0.64
1:C:2252:VAL:HA	1:C:2255:ARG:HE	1.62	0.64
1:D:1412:HIS:HD2	1:D:1413:PRO:HD2	1.61	0.64
1:F:643:ILE:HD12	1:F:915:PHE:HZ	1.62	0.64
1:D:2252:VAL:HA	1:D:2255:ARG:HE	1.62	0.64
1:E:34:LEU:O	1:E:38:LEU:N	2.25	0.64
1:B:2176:LEU:HG	1:B:2180:LYS:HE3	1.80	0.64
1:C:56:LEU:HD22	1:C:119:LEU:HD13	1.79	0.64
1:C:2679:ALA:HB3	1:C:2762:VAL:HG12	1.78	0.64
1:C:643:ILE:HD12	1:C:915:PHE:HZ	1.62	0.64
1:F:2176:LEU:HG	1:F:2180:LYS:HE3	1.80	0.64
1:A:42:GLU:HB3	1:A:349:ARG:HG3	1.79	0.64
1:A:803:GLU:OE1	1:A:2431:THR:HG22	1.98	0.64
1:B:2252:VAL:HA	1:B:2255:ARG:HE	1.62	0.64
1:C:42:GLU:HB3	1:C:349:ARG:HG3	1.79	0.64
1:D:500:GLN:O	1:D:504:LYS:N	2.24	0.64
1:E:803:GLU:OE1	1:E:2431:THR:HG22	1.98	0.64
1:C:360:LEU:HD12	1:C:363:LEU:HD23	1.80	0.63
1:E:56:LEU:HD22	1:E:119:LEU:HD13	1.78	0.63
1:E:3073:MET:O	1:B:2865:ARG:NH2	2.32	0.63
1:F:1536:ASN:HA	1:F:1679:TRP:HB3	1.78	0.63
1:F:3073:MET:O	1:A:2865:ARG:NH2	2.32	0.63
1:B:2094:HIS:CG	1:B:2096:VAL:CG1	2.75	0.63
1:D:1536:ASN:HA	1:D:1679:TRP:HB3	1.79	0.63
1:E:892:ILE:HG22	2:E:4000:FMN:HM82	1.80	0.63
1:F:2706:PRO:HG2	1:F:2709:ILE:HG23	1.79	0.63
1:A:1622:PRO:HD3	1:A:1685:LEU:HD11	1.81	0.63
1:B:1072:TRP:NE1	1:B:1077:VAL:HG22	2.14	0.63
1:B:1417:LEU:O	1:B:1423:THR:OG1	2.14	0.63
1:B:1536:ASN:HA	1:B:1679:TRP:HB3	1.79	0.63
1:B:2706:PRO:HG2	1:B:2709:ILE:HG23	1.79	0.63
1:F:2865:ARG:NH2	1:A:3073:MET:O	2.32	0.63
1:B:2876:LEU:HD11	1:B:2886:ILE:HD11	1.79	0.63
1:C:2173:ASP:OD2	1:C:2799:LYS:NZ	2.32	0.63
1:A:2297:ARG:HD3	1:A:2297:ARG:H	1.64	0.63
1:A:939:ALA:O	1:A:940:ARG:CG	2.47	0.63
1:B:2554:ALA:HB1	1:B:2614:LYS:HZ2	1.62	0.63
1:B:939:ALA:O	1:B:940:ARG:CG	2.47	0.63
1:C:2112:ARG:N	1:C:2115:HIS:CG	2.57	0.63
1:E:1315:ARG:HH21	1:E:1323:GLU:HG2	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1622:PRO:HD3	1:E:1685:LEU:HD11	1.81	0.63
1:E:500:GLN:O	1:E:504:LYS:N	2.24	0.63
1:F:957:LEU:O	1:F:1034:GLU:CB	2.46	0.63
1:F:2652:ILE:HG12	1:F:2722:VAL:HG22	1.79	0.63
1:A:974:THR:CG2	1:A:977:GLN:HB3	2.29	0.63
1:B:2092:THR:HA	1:B:2189:PHE:HB2	1.81	0.63
1:B:750:LEU:HD12	1:B:827:LEU:HD11	1.81	0.63
1:C:803:GLU:OE1	1:C:2431:THR:HG22	1.98	0.63
1:C:974:THR:CG2	1:C:977:GLN:HB3	2.29	0.63
1:E:2948:GLN:HG2	1:E:2951:ARG:HH21	1.64	0.63
1:E:585:HIS:CD2	1:E:586:SER:H	2.17	0.63
1:E:974:THR:CG2	1:E:977:GLN:HB3	2.29	0.63
1:F:2297:ARG:HD3	1:F:2297:ARG:H	1.64	0.63
1:B:1315:ARG:HH21	1:B:1323:GLU:HG2	1.64	0.63
1:E:2865:ARG:NH2	1:B:3073:MET:O	2.32	0.63
1:B:585:HIS:CD2	1:B:586:SER:H	2.17	0.63
1:C:939:ALA:O	1:C:940:ARG:CG	2.47	0.63
1:D:3073:MET:O	1:C:2865:ARG:NH2	2.32	0.63
1:D:803:GLU:OE1	1:D:2431:THR:HG22	1.98	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:E:1072:TRP:NE1	1:E:1077:VAL:HG22	2.14	0.63
1:E:2297:ARG:H	1:E:2297:ARG:HD3	1.64	0.63
1:E:3080:ARG:CG	1:E:3080:ARG:HH11	2.07	0.63
1:F:1042:MET:O	1:F:1043:ARG:C	2.37	0.63
1:F:1376:VAL:HA	1:F:1470:LEU:HD13	1.81	0.63
1:F:2092:THR:HA	1:F:2189:PHE:HB2	1.81	0.63
1:F:2752:ASP:HB3	1:A:2752:ASP:HB3	1.81	0.63
1:F:974:THR:CG2	1:F:977:GLN:HB3	2.29	0.63
1:A:2086:SER:O	1:A:2089:PHE:CG	2.52	0.63
1:A:2092:THR:HA	1:A:2189:PHE:HB2	1.81	0.63
1:B:1095:LEU:HD12	1:B:1096:THR:H	1.64	0.63
1:B:2047:THR:OG1	1:B:2205:ASP:OD2	2.17	0.63
1:D:1072:TRP:NE1	1:D:1077:VAL:HG22	2.14	0.63
1:D:2096:VAL:HG13	1:D:2097:ALA:N	2.14	0.63
1:E:1376:VAL:HA	1:E:1470:LEU:HD13	1.81	0.63
1:E:793:ARG:HD3	1:E:2435:LEU:CG	2.27	0.63
1:E:939:ALA:O	1:E:940:ARG:CG	2.47	0.63
1:F:1622:PRO:HD3	1:F:1685:LEU:HD11	1.81	0.63
1:F:2047:THR:OG1	1:F:2205:ASP:OD2	2.17	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:A:2092:THR:O	1:A:2092:THR:HG23	1.99	0.63
1:B:664:LEU:HD13	1:B:701:ALA:HB1	1.81	0.63
1:D:1376:VAL:HA	1:D:1470:LEU:HD13	1.81	0.63
1:E:1702:GLU:OE2	1:E:1711:VAL:HG13	1.99	0.63
1:E:2096:VAL:HG13	1:E:2097:ALA:N	2.14	0.63
1:E:2176:LEU:HG	1:E:2180:LYS:HE3	1.80	0.63
1:F:1412:HIS:ND1	1:F:1415:GLY:O	2.26	0.63
1:F:2252:VAL:HA	1:F:2255:ARG:HE	1.62	0.63
1:F:750:LEU:HD12	1:F:827:LEU:HD11	1.81	0.63
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:A:892:ILE:HG22	2:A:4000:FMN:HM82	1.80	0.62
1:B:1376:VAL:HA	1:B:1470:LEU:HD13	1.81	0.62
1:B:2086:SER:O	1:B:2089:PHE:CG	2.52	0.62
1:B:2173:ASP:OD2	1:B:2799:LYS:NZ	2.32	0.62
1:B:2297:ARG:H	1:B:2297:ARG:HD3	1.64	0.62
1:B:2652:ILE:HG12	1:B:2722:VAL:HG22	1.79	0.62
1:B:974:THR:CG2	1:B:977:GLN:HB3	2.29	0.62
1:D:2865:ARG:NH2	1:C:3073:MET:O	2.32	0.62
1:E:360:LEU:HD12	1:E:363:LEU:HD23	1.80	0.62
1:E:932:GLU:O	1:E:936:ARG:CG	2.48	0.62
1:F:1072:TRP:NE1	1:F:1077:VAL:HG22	2.14	0.62
1:F:2086:SER:O	1:F:2089:PHE:CG	2.52	0.62
1:F:585:HIS:CD2	1:F:586:SER:H	2.17	0.62
1:A:585:HIS:CD2	1:A:586:SER:H	2.17	0.62
1:C:1072:TRP:NE1	1:C:1077:VAL:HG22	2.14	0.62
1:C:1315:ARG:HH21	1:C:1323:GLU:HG2	1.64	0.62
1:D:2173:ASP:OD2	1:D:2799:LYS:NZ	2.32	0.62
1:D:2047:THR:OG1	1:D:2205:ASP:OD2	2.17	0.62
1:E:2092:THR:HA	1:E:2189:PHE:HB2	1.81	0.62
1:E:42:GLU:HB3	1:E:349:ARG:HG3	1.79	0.62
1:A:1072:TRP:NE1	1:A:1077:VAL:HG22	2.14	0.62
1:A:2096:VAL:HG23	1:A:2097:ALA:N	2.14	0.62
1:A:2173:ASP:OD2	1:A:2799:LYS:NZ	2.32	0.62
1:B:803:GLU:OE1	1:B:2431:THR:HG22	1.98	0.62
1:B:2948:GLN:HG2	1:B:2951:ARG:HH21	1.64	0.62
1:C:1376:VAL:HA	1:C:1470:LEU:HD13	1.81	0.62
1:E:1095:LEU:HD12	1:E:1096:THR:H	1.64	0.62
1:E:238:SER:OG	1:E:249:THR:OG1	2.16	0.62
1:F:34:LEU:O	1:F:38:LEU:N	2.25	0.62
1:F:892:ILE:HG22	2:F:4000:FMN:HM82	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3080:ARG:NH1	1:B:3080:ARG:HG3	2.09	0.62
1:D:892:ILE:HG22	2:D:4000:FMN:HM82	1.80	0.62
1:D:585:HIS:CD2	1:D:586:SER:H	2.17	0.62
1:E:2092:THR:HG23	1:E:2092:THR:O	1.99	0.62
1:A:360:LEU:HD12	1:A:363:LEU:HD23	1.80	0.62
1:B:1431:ALA:HB3	1:B:1459:THR:HG21	1.82	0.62
1:B:1702:GLU:OE2	1:B:1711:VAL:HG13	1.99	0.62
1:B:932:GLU:O	1:B:936:ARG:CG	2.47	0.62
1:C:1095:LEU:HD12	1:C:1096:THR:H	1.64	0.62
1:C:1417:LEU:O	1:C:1423:THR:OG1	2.14	0.62
1:C:892:ILE:HG22	2:C:4000:FMN:HM82	1.80	0.62
1:D:1095:LEU:HD12	1:D:1096:THR:H	1.64	0.62
1:D:2092:THR:HA	1:D:2189:PHE:HB2	1.81	0.62
1:D:2948:GLN:HG2	1:D:2951:ARG:HH21	1.64	0.62
1:D:750:LEU:HD12	1:D:827:LEU:HD11	1.81	0.62
1:F:2096:VAL:HG13	1:F:2097:ALA:N	2.14	0.62
1:F:2765:GLY:HA2	1:F:2940:VAL:HG21	1.82	0.62
1:F:932:GLU:O	1:F:936:ARG:CG	2.48	0.62
1:A:1417:LEU:O	1:A:1423:THR:OG1	2.14	0.62
1:B:360:LEU:HD12	1:B:363:LEU:HD23	1.80	0.62
1:C:2237:LEU:HB2	1:C:2287:LEU:HD11	1.82	0.62
1:C:238:SER:OG	1:C:249:THR:OG1	2.15	0.62
1:C:932:GLU:O	1:C:936:ARG:CG	2.48	0.62
1:D:1315:ARG:HH21	1:D:1323:GLU:HG2	1.64	0.62
1:D:2176:LEU:HG	1:D:2180:LYS:HE3	1.80	0.62
1:D:2297:ARG:HD3	1:D:2297:ARG:H	1.64	0.62
1:A:2176:LEU:HG	1:A:2180:LYS:HE3	1.80	0.62
1:B:2092:THR:O	1:B:2092:THR:HG23	1.99	0.62
1:B:2765:GLY:HA2	1:B:2940:VAL:HG21	1.82	0.62
1:B:892:ILE:HG22	2:B:4000:FMN:HM82	1.80	0.62
1:D:1417:LEU:O	1:D:1423:THR:OG1	2.14	0.62
1:D:2086:SER:O	1:D:2089:PHE:CG	2.52	0.62
1:D:932:GLU:O	1:D:936:ARG:CG	2.48	0.62
1:E:2173:ASP:OD2	1:E:2799:LYS:NZ	2.32	0.62
1:E:2610:ARG:HB2	1:B:2558:LEU:HD21	1.82	0.62
1:F:2407:GLU:CG	1:F:2411:LYS:HE3	2.29	0.62
1:A:1353:PRO:HG3	1:A:1702:GLU:OE2	2.00	0.62
1:B:1622:PRO:HD3	1:B:1685:LEU:HD11	1.81	0.62
1:C:2092:THR:O	1:C:2092:THR:HG23	1.99	0.62
1:F:2948:GLN:HG2	1:F:2951:ARG:HH21	1.64	0.62
1:F:939:ALA:O	1:F:940:ARG:CG	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:971:ALA:O	1:F:974:THR:CG2	2.48	0.62
1:A:1702:GLU:OE2	1:A:1711:VAL:HG13	1.99	0.62
1:A:971:ALA:O	1:A:974:THR:CG2	2.48	0.62
1:C:2086:SER:O	1:C:2089:PHE:CG	2.52	0.62
1:C:2176:LEU:HG	1:C:2180:LYS:HE3	1.80	0.62
1:B:1725:SER:HB3	1:C:260:LEU:HD13	1.82	0.62
1:D:2092:THR:O	1:D:2092:THR:HG23	1.99	0.62
1:D:2237:LEU:HB2	1:D:2287:LEU:HD11	1.82	0.62
1:D:971:ALA:O	1:D:974:THR:CG2	2.48	0.62
1:E:1695:LEU:CD2	1:F:257:ARG:HH12	2.13	0.62
1:E:664:LEU:HD13	1:E:701:ALA:HB1	1.81	0.62
1:F:2173:ASP:OD2	1:F:2799:LYS:NZ	2.32	0.62
1:A:1431:ALA:HB3	1:A:1459:THR:HG21	1.82	0.62
1:C:2047:THR:OG1	1:C:2205:ASP:OD2	2.17	0.62
1:C:971:ALA:O	1:C:974:THR:CG2	2.48	0.62
1:A:260:LEU:HD13	1:C:1725:SER:HB3	1.82	0.61
1:B:2237:LEU:HB2	1:B:2287:LEU:HD11	1.82	0.61
1:A:1725:SER:HB3	1:B:260:LEU:HD13	1.82	0.61
1:D:2752:ASP:HB3	1:C:2752:ASP:HB3	1.81	0.61
1:C:924:LEU:O	1:C:929:GLU:N	2.30	0.61
1:D:1622:PRO:HD3	1:D:1685:LEU:HD11	1.81	0.61
1:E:1431:ALA:HB3	1:E:1459:THR:HG21	1.82	0.61
1:E:750:LEU:HD12	1:E:827:LEU:HD11	1.81	0.61
1:F:2092:THR:O	1:F:2092:THR:HG23	1.99	0.61
1:A:1695:LEU:CD2	1:B:257:ARG:HH12	2.13	0.61
1:A:2047:THR:OG1	1:A:2205:ASP:OD2	2.17	0.61
1:A:34:LEU:H	1:A:393:VAL:HG21	1.65	0.61
1:A:932:GLU:O	1:A:936:ARG:CG	2.48	0.61
1:B:971:ALA:O	1:B:974:THR:CG2	2.48	0.61
1:C:1622:PRO:HD3	1:C:1685:LEU:HD11	1.81	0.61
1:C:1702:GLU:OE2	1:C:1711:VAL:HG13	1.99	0.61
1:C:2469:LEU:HD11	1:C:2653:VAL:HB	1.82	0.61
1:C:3058:ARG:HB2	1:C:3089:LEU:HB2	1.82	0.61
1:C:585:HIS:CD2	1:C:586:SER:H	2.17	0.61
1:D:409:LYS:HD2	1:D:933:VAL:HA	1.82	0.61
1:F:360:LEU:HD12	1:F:363:LEU:HD23	1.80	0.61
1:B:1695:LEU:CD2	1:C:257:ARG:HH12	2.13	0.61
1:B:2096:VAL:HG13	1:B:2097:ALA:N	2.14	0.61
1:B:680:ALA:HA	1:B:685:ALA:HB2	1.83	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:511:ARG:HH11	1:C:543:GLY:HA3	1.65	0.61
1:C:409:LYS:HD2	1:C:933:VAL:HA	1.82	0.61
1:D:1725:SER:HB3	1:E:260:LEU:HD13	1.82	0.61
1:D:2765:GLY:HA2	1:D:2940:VAL:HG21	1.82	0.61
1:D:3058:ARG:HB2	1:D:3089:LEU:HB2	1.82	0.61
1:D:664:LEU:HD13	1:D:701:ALA:HB1	1.81	0.61
1:E:2086:SER:O	1:E:2089:PHE:CG	2.53	0.61
1:F:1353:PRO:HG3	1:F:1702:GLU:OE2	2.00	0.61
1:F:924:LEU:O	1:F:929:GLU:N	2.30	0.61
1:A:1095:LEU:HD12	1:A:1096:THR:H	1.64	0.61
1:A:257:ARG:HH12	1:C:1695:LEU:CD2	2.13	0.61
1:B:3058:ARG:HB2	1:B:3089:LEU:HB2	1.82	0.61
1:C:203:ASP:O	1:C:205:PRO:HD3	2.01	0.61
1:C:2765:GLY:HA2	1:C:2940:VAL:HG21	1.82	0.61
1:C:2948:GLN:HG2	1:C:2951:ARG:HH21	1.64	0.61
1:C:680:ALA:HA	1:C:685:ALA:HB2	1.83	0.61
1:C:750:LEU:HD12	1:C:827:LEU:HD11	1.81	0.61
1:D:680:ALA:HA	1:D:685:ALA:HB2	1.83	0.61
1:E:203:ASP:O	1:E:205:PRO:HD3	2.01	0.61
1:E:2558:LEU:HD21	1:B:2610:ARG:HB2	1.82	0.61
1:F:1315:ARG:HH21	1:F:1323:GLU:HG2	1.64	0.61
1:F:3058:ARG:HB2	1:F:3089:LEU:HB2	1.82	0.61
1:F:664:LEU:HD13	1:F:701:ALA:HB1	1.81	0.61
1:F:2558:LEU:HD21	1:A:2610:ARG:HB2	1.82	0.61
1:A:2948:GLN:HG2	1:A:2951:ARG:HH21	1.64	0.61
1:B:203:ASP:O	1:B:205:PRO:HD3	2.01	0.61
1:C:2297:ARG:HD3	1:C:2297:ARG:H	1.64	0.61
1:E:2047:THR:OG1	1:E:2205:ASP:OD2	2.17	0.61
1:F:2237:LEU:HB2	1:F:2287:LEU:HD11	1.82	0.61
1:E:1725:SER:HB3	1:F:260:LEU:HD13	1.82	0.61
1:A:438:THR:HA	1:A:880:HIS:HE1	1.66	0.61
1:E:2752:ASP:HB3	1:B:2752:ASP:HB3	1.81	0.61
1:C:2092:THR:HA	1:C:2189:PHE:HB2	1.81	0.61
1:C:2096:VAL:HG23	1:C:2097:ALA:N	2.14	0.61
1:D:1353:PRO:HG3	1:D:1702:GLU:OE2	2.00	0.61
1:E:2237:LEU:HB2	1:E:2287:LEU:HD11	1.82	0.61
1:F:164:ALA:HA	1:F:178:LEU:HD13	1.82	0.61
1:F:34:LEU:H	1:F:393:VAL:HG21	1.65	0.61
1:A:2469:LEU:HD11	1:A:2653:VAL:HB	1.83	0.61
1:A:2962:ASP:OD1	1:A:2962:ASP:N	2.34	0.61
1:A:664:LEU:HD13	1:A:701:ALA:HB1	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2334:HIS:HD2	1:B:2391:LYS:HG3	1.66	0.61
1:B:34:LEU:H	1:B:393:VAL:HG21	1.65	0.61
1:B:34:LEU:O	1:B:38:LEU:N	2.25	0.61
1:B:438:THR:HA	1:B:880:HIS:HE1	1.66	0.61
1:C:2212:TRP:HA	1:C:2229:LYS:HD3	1.83	0.61
1:C:488:ASN:HA	1:C:521:VAL:HB	1.83	0.61
1:C:664:LEU:HD13	1:C:701:ALA:HB1	1.81	0.61
1:D:2212:TRP:HA	1:D:2229:LYS:HD3	1.83	0.61
1:E:1353:PRO:HG3	1:E:1702:GLU:OE2	2.00	0.61
1:E:2765:GLY:HA2	1:E:2940:VAL:HG21	1.82	0.61
1:E:924:LEU:O	1:E:929:GLU:N	2.30	0.61
1:F:1702:GLU:OE2	1:F:1711:VAL:HG13	1.99	0.61
1:F:203:ASP:O	1:F:205:PRO:HD3	2.00	0.61
1:F:680:ALA:HA	1:F:685:ALA:HB2	1.83	0.61
1:F:409:LYS:HD2	1:F:933:VAL:HA	1.82	0.61
1:A:511:ARG:HH11	1:A:543:GLY:HA3	1.65	0.61
1:B:126:VAL:HG12	1:B:182:ALA:HB1	1.83	0.61
1:B:1353:PRO:HG3	1:B:1702:GLU:OE2	2.00	0.61
1:C:438:THR:HA	1:C:880:HIS:HE1	1.66	0.61
1:C:980:GLU:HB2	1:C:989:HIS:HB2	1.83	0.61
1:E:2212:TRP:HA	1:E:2229:LYS:HD3	1.83	0.61
1:E:575:HIS:HD2	1:E:644:LEU:HD22	1.66	0.61
1:F:961:ARG:HE	1:F:1196:GLY:N	1.97	0.61
1:A:2212:TRP:HA	1:A:2229:LYS:HD3	1.83	0.61
1:A:575:HIS:HD2	1:A:644:LEU:HD22	1.66	0.61
1:A:750:LEU:HD12	1:A:827:LEU:HD11	1.81	0.61
1:C:1431:ALA:HB3	1:C:1459:THR:HG21	1.82	0.61
1:C:2372:MET:HB3	1:C:2394:LEU:HD22	1.83	0.61
1:D:2469:LEU:HD11	1:D:2653:VAL:HB	1.82	0.61
1:D:2558:LEU:HD21	1:C:2610:ARG:HB2	1.82	0.61
1:A:1376:VAL:HA	1:A:1470:LEU:HD13	1.81	0.61
1:A:203:ASP:O	1:A:205:PRO:HD3	2.01	0.61
1:A:3058:ARG:HB2	1:A:3089:LEU:HB2	1.82	0.61
1:A:488:ASN:HA	1:A:521:VAL:HB	1.83	0.61
1:B:106:ALA:HB1	1:B:112:PRO:HB2	1.82	0.61
1:B:511:ARG:HH11	1:B:543:GLY:HA3	1.65	0.61
1:D:1412:HIS:ND1	1:D:1415:GLY:O	2.26	0.61
1:D:1702:GLU:OE2	1:D:1711:VAL:HG13	1.99	0.61
1:D:438:THR:HA	1:D:880:HIS:HE1	1.66	0.61
1:D:488:ASN:HA	1:D:521:VAL:HB	1.83	0.61
1:E:164:ALA:HA	1:E:178:LEU:HD13	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:488:ASN:HA	1:E:521:VAL:HB	1.83	0.61
1:E:438:THR:HA	1:E:880:HIS:HE1	1.66	0.61
1:E:971:ALA:O	1:E:974:THR:CG2	2.48	0.61
1:F:1532:ILE:HA	1:F:1544:ILE:HG12	1.83	0.61
1:F:2610:ARG:HB2	1:A:2558:LEU:HD21	1.82	0.61
1:F:2647:VAL:HA	1:F:2650:TRP:HD1	1.66	0.61
1:A:164:ALA:HA	1:A:178:LEU:HD13	1.83	0.60
1:A:1989:PHE:HD1	1:A:1992:LYS:HZ3	1.49	0.60
1:A:2112:ARG:CG	1:A:2114:VAL:HG22	2.31	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:C:2712:GLU:HA	1:C:2717:VAL:HG11	1.83	0.60
1:D:980:GLU:HB2	1:D:989:HIS:HB2	1.83	0.60
1:E:3058:ARG:HB2	1:E:3089:LEU:HB2	1.82	0.60
1:F:126:VAL:HG12	1:F:182:ALA:HB1	1.83	0.60
1:A:2765:GLY:HA2	1:A:2940:VAL:HG21	1.82	0.60
1:A:924:LEU:O	1:A:929:GLU:N	2.30	0.60
1:D:2610:ARG:HB2	1:C:2558:LEU:HD21	1.82	0.60
1:D:511:ARG:HH11	1:D:543:GLY:HA3	1.66	0.60
1:D:575:HIS:HD2	1:D:644:LEU:HD22	1.66	0.60
1:D:924:LEU:O	1:D:929:GLU:N	2.30	0.60
1:E:687:GLY:O	1:E:695:ILE:N	2.34	0.60
1:E:980:GLU:HB2	1:E:989:HIS:HB2	1.83	0.60
1:F:1095:LEU:HD12	1:F:1096:THR:H	1.64	0.60
1:F:1417:LEU:O	1:F:1423:THR:OG1	2.14	0.60
1:F:980:GLU:HB2	1:F:989:HIS:HB2	1.83	0.60
1:A:2372:MET:HB3	1:A:2394:LEU:HD22	1.83	0.60
1:C:1098:VAL:HG12	1:C:1100:ASP:H	1.66	0.60
1:C:164:ALA:HA	1:C:178:LEU:HD13	1.82	0.60
1:D:2749:GLU:OE2	1:C:2749:GLU:HB3	2.02	0.60
1:D:1098:VAL:HG12	1:D:1100:ASP:H	1.66	0.60
1:E:580:ARG:HG2	1:E:590:LEU:HD21	1.83	0.60
1:F:1431:ALA:HB3	1:F:1459:THR:HG21	1.81	0.60
1:F:3080:ARG:HH11	1:F:3080:ARG:CG	2.07	0.60
1:F:575:HIS:HD2	1:F:644:LEU:HD22	1.66	0.60
1:A:580:ARG:HG2	1:A:590:LEU:HD21	1.83	0.60
1:A:1724:TYR:OH	1:B:267:GLU:OE2	2.07	0.60
1:C:1532:ILE:HA	1:C:1544:ILE:HG12	1.83	0.60
1:C:2431:THR:HG23	1:C:2431:THR:O	2.01	0.60
1:C:687:GLY:O	1:C:695:ILE:N	2.34	0.60
1:D:2686:MET:HE1	1:D:2935:LYS:HG3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2372:MET:HB3	1:E:2394:LEU:HD22	1.83	0.60
1:F:2334:HIS:HD2	1:F:2391:LYS:HG3	1.66	0.60
1:F:2431:THR:HG23	1:F:2431:THR:O	2.01	0.60
1:F:580:ARG:HG2	1:F:590:LEU:HD21	1.83	0.60
1:A:2056:PHE:HZ	1:A:2180:LYS:HE2	1.67	0.60
1:A:2712:GLU:HA	1:A:2717:VAL:HG11	1.83	0.60
1:B:500:GLN:O	1:B:504:LYS:N	2.24	0.60
1:C:2647:VAL:HA	1:C:2650:TRP:HD1	1.66	0.60
1:D:2112:ARG:CG	1:D:2114:VAL:HG12	2.31	0.60
1:D:688:ARG:O	1:D:872:ARG:NE	2.34	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:D:1695:LEU:CD2	1:E:257:ARG:HH12	2.13	0.60
1:E:409:LYS:HD2	1:E:933:VAL:HA	1.82	0.60
1:F:2372:MET:HB3	1:F:2394:LEU:HD22	1.83	0.60
1:F:511:ARG:HH11	1:F:543:GLY:HA3	1.66	0.60
1:A:2237:LEU:HB2	1:A:2287:LEU:HD11	1.82	0.60
1:A:409:LYS:HD2	1:A:933:VAL:HA	1.82	0.60
1:B:1532:ILE:HA	1:B:1544:ILE:HG12	1.83	0.60
1:B:2431:THR:O	1:B:2431:THR:HG23	2.01	0.60
1:B:409:LYS:HD2	1:B:933:VAL:HA	1.82	0.60
1:E:2056:PHE:HZ	1:E:2180:LYS:HE2	1.67	0.60
1:E:2334:HIS:HD2	1:E:2391:LYS:HG3	1.66	0.60
1:E:2431:THR:O	1:E:2431:THR:HG23	2.01	0.60
1:F:1020:THR:N	1:F:1035:VAL:CG2	2.59	0.60
1:F:106:ALA:HB1	1:F:112:PRO:HB2	1.82	0.60
1:F:2800:PHE:HE1	1:F:2812:LEU:HD22	1.67	0.60
1:A:1537:LEU:HB2	1:A:1541:GLN:H	1.67	0.60
1:A:980:GLU:HB2	1:A:989:HIS:HB2	1.83	0.60
1:B:2372:MET:HB3	1:B:2394:LEU:HD22	1.83	0.60
1:E:2749:GLU:OE2	1:B:2749:GLU:HB3	2.02	0.60
1:C:2800:PHE:HE1	1:C:2812:LEU:HD22	1.67	0.60
1:D:1431:ALA:HB3	1:D:1459:THR:HG21	1.82	0.60
1:D:2334:HIS:HD2	1:D:2391:LYS:HG3	1.66	0.60
1:E:2712:GLU:HA	1:E:2717:VAL:HG11	1.83	0.60
1:E:2820:ILE:HD13	1:E:2943:MET:HG2	1.84	0.60
1:A:106:ALA:HB1	1:A:112:PRO:HB2	1.82	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:B:164:ALA:HA	1:B:178:LEU:HD13	1.82	0.60
1:B:2800:PHE:HE1	1:B:2812:LEU:HD22	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:670:GLY:O	1:B:682:ASN:ND2	2.35	0.60
1:C:1537:LEU:HB2	1:C:1541:GLN:H	1.67	0.60
1:C:34:LEU:H	1:C:393:VAL:HG21	1.65	0.60
1:D:1532:ILE:HA	1:D:1544:ILE:HG12	1.83	0.60
1:D:2431:THR:HG23	1:D:2431:THR:O	2.01	0.60
1:D:670:GLY:O	1:D:682:ASN:ND2	2.35	0.60
1:E:106:ALA:HB1	1:E:112:PRO:HB2	1.82	0.60
1:E:2647:VAL:HA	1:E:2650:TRP:HD1	1.66	0.60
1:E:2686:MET:HE1	1:E:2935:LYS:HG3	1.84	0.60
1:F:2056:PHE:HZ	1:F:2180:LYS:HE2	1.67	0.60
1:B:1098:VAL:HG12	1:B:1100:ASP:H	1.66	0.60
1:B:688:ARG:O	1:B:872:ARG:NE	2.34	0.60
1:C:1435:VAL:HG11	1:C:1463:CYS:HB3	1.84	0.60
1:C:2112:ARG:CG	1:C:2114:VAL:HG22	2.31	0.60
1:E:2469:LEU:HD11	1:E:2653:VAL:HB	1.82	0.60
1:E:670:GLY:O	1:E:682:ASN:ND2	2.35	0.60
1:F:2469:LEU:HD11	1:F:2653:VAL:HB	1.82	0.60
1:F:2693:GLN:O	1:F:2697:HIS:ND1	2.33	0.60
1:A:680:ALA:HA	1:A:685:ALA:HB2	1.83	0.60
1:A:687:GLY:O	1:A:695:ILE:N	2.34	0.60
1:B:2469:LEU:HD11	1:B:2653:VAL:HB	1.83	0.60
1:C:1701:VAL:HG22	1:C:1732:LEU:HB2	1.84	0.60
1:C:1989:PHE:HD1	1:C:1992:LYS:HZ3	1.50	0.60
1:C:688:ARG:O	1:C:872:ARG:NE	2.34	0.60
1:D:1701:VAL:HG22	1:D:1732:LEU:HB2	1.84	0.60
1:A:238:SER:OG	1:A:249:THR:OG1	2.15	0.59
1:A:2461:VAL:HG11	1:A:2751:VAL:HG22	1.84	0.59
1:A:795:HIS:HB3	1:A:799:PHE:CZ	2.37	0.59
1:B:2112:ARG:CG	1:B:2114:VAL:HG22	2.31	0.59
1:B:2651:ASN:HD22	1:B:2718:VAL:HG12	1.67	0.59
1:B:580:ARG:HG2	1:B:590:LEU:HD21	1.83	0.59
1:C:126:VAL:HG12	1:C:182:ALA:HB1	1.83	0.59
1:C:410:LEU:HB3	1:C:1025:VAL:HG21	1.84	0.59
1:D:1435:VAL:HG11	1:D:1463:CYS:HB3	1.84	0.59
1:D:2800:PHE:HE1	1:D:2812:LEU:HD22	1.67	0.59
1:E:1309:VAL:HG22	1:E:1331:ILE:HG12	1.84	0.59
1:E:34:LEU:H	1:E:393:VAL:HG21	1.65	0.59
1:F:410:LEU:HB3	1:F:1025:VAL:HG21	1.84	0.59
1:F:1701:VAL:HG22	1:F:1732:LEU:HB2	1.84	0.59
1:F:2651:ASN:HD22	1:F:2718:VAL:HG12	1.67	0.59
1:A:2647:VAL:HA	1:A:2650:TRP:HD1	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:410:LEU:HB3	1:B:1025:VAL:HG21	1.84	0.59
1:B:836:VAL:HG12	1:B:837:VAL:H	1.67	0.59
1:C:2056:PHE:HZ	1:C:2180:LYS:HE2	1.67	0.59
1:C:2686:MET:HE1	1:C:2935:LYS:HG3	1.84	0.59
1:C:2651:ASN:HD22	1:C:2718:VAL:HG12	1.67	0.59
1:C:34:LEU:O	1:C:38:LEU:N	2.25	0.59
1:C:795:HIS:HB3	1:C:799:PHE:CZ	2.37	0.59
1:D:2056:PHE:HZ	1:D:2180:LYS:HE2	1.67	0.59
1:D:580:ARG:HG2	1:D:590:LEU:HD21	1.83	0.59
1:E:795:HIS:HB3	1:E:799:PHE:CZ	2.37	0.59
1:F:2712:GLU:HA	1:F:2717:VAL:HG11	1.83	0.59
1:A:2431:THR:HG23	1:A:2431:THR:O	2.01	0.59
1:B:2212:TRP:HA	1:B:2229:LYS:HD3	1.83	0.59
1:B:2962:ASP:N	1:B:2962:ASP:OD1	2.34	0.59
1:C:836:VAL:HG12	1:C:837:VAL:H	1.67	0.59
1:D:2651:ASN:HD22	1:D:2718:VAL:HG12	1.67	0.59
1:E:680:ALA:HA	1:E:685:ALA:HB2	1.83	0.59
1:F:1098:VAL:HG12	1:F:1100:ASP:H	1.67	0.59
1:F:2667:THR:HG21	1:F:3058:ARG:NH1	2.17	0.59
1:F:438:THR:HA	1:F:880:HIS:HE1	1.66	0.59
1:F:488:ASN:HA	1:F:521:VAL:HB	1.83	0.59
1:F:670:GLY:O	1:F:682:ASN:ND2	2.35	0.59
1:B:1435:VAL:HG11	1:B:1463:CYS:HB3	1.84	0.59
1:B:1724:TYR:OH	1:C:267:GLU:OE2	2.07	0.59
1:D:2753:LYS:NZ	1:C:2752:ASP:OD2	2.36	0.59
1:E:2112:ARG:CG	1:E:2114:VAL:HG22	2.31	0.59
1:F:2112:ARG:CG	1:F:2114:VAL:HG22	2.31	0.59
1:F:2403:ILE:HG23	1:F:2408:LEU:HD12	1.85	0.59
1:F:836:VAL:HG12	1:F:837:VAL:H	1.67	0.59
1:A:462:GLN:HG3	1:A:468:PHE:HD1	1.68	0.59
1:A:688:ARG:O	1:A:872:ARG:NE	2.34	0.59
1:B:1095:LEU:HD22	1:B:1289:PRO:HA	1.85	0.59
1:B:2056:PHE:HZ	1:B:2180:LYS:HE2	1.67	0.59
1:E:2749:GLU:HB3	1:B:2749:GLU:OE2	2.02	0.59
1:E:2753:LYS:NZ	1:B:2752:ASP:OD2	2.36	0.59
1:B:687:GLY:O	1:B:695:ILE:N	2.34	0.59
1:D:2749:GLU:HB3	1:C:2749:GLU:OE2	2.02	0.59
1:C:580:ARG:HG2	1:C:590:LEU:HD21	1.83	0.59
1:D:687:GLY:O	1:D:695:ILE:N	2.34	0.59
1:E:1701:VAL:HG22	1:E:1732:LEU:HB2	1.84	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:F:688:ARG:O	1:F:872:ARG:NE	2.34	0.59
1:A:1098:VAL:HG12	1:A:1100:ASP:H	1.66	0.59
1:A:1701:VAL:HG22	1:A:1732:LEU:HB2	1.84	0.59
1:A:126:VAL:HG12	1:A:182:ALA:HB1	1.83	0.59
1:A:2800:PHE:HE1	1:A:2812:LEU:HD22	1.67	0.59
1:B:2403:ILE:HG23	1:B:2408:LEU:HD12	1.85	0.59
1:B:2712:GLU:HA	1:B:2717:VAL:HG11	1.84	0.59
1:B:2889:ILE:HG12	1:B:2922:LEU:HB3	1.84	0.59
1:C:670:GLY:O	1:C:682:ASN:ND2	2.35	0.59
1:D:1656:LYS:HG2	1:D:1660:LEU:HG	1.85	0.59
1:E:410:LEU:HB3	1:E:1025:VAL:HG21	1.84	0.59
1:E:1098:VAL:HG12	1:E:1100:ASP:H	1.66	0.59
1:E:3080:ARG:HG3	1:E:3080:ARG:NH1	2.09	0.59
1:E:511:ARG:HH11	1:E:543:GLY:HA3	1.65	0.59
1:E:836:VAL:HG12	1:E:837:VAL:H	1.67	0.59
1:F:1095:LEU:HD22	1:F:1289:PRO:HA	1.85	0.59
1:B:1309:VAL:HG22	1:B:1331:ILE:HG12	1.84	0.59
1:B:1656:LYS:HG2	1:B:1660:LEU:HG	1.84	0.59
1:B:2647:VAL:HA	1:B:2650:TRP:HD1	1.66	0.59
1:B:2686:MET:HE1	1:B:2935:LYS:HG3	1.84	0.59
1:C:1336:VAL:HG12	1:C:1337:MET:HG3	1.85	0.59
1:C:2334:HIS:HD2	1:C:2391:LYS:HG3	1.66	0.59
1:C:462:GLN:HG3	1:C:468:PHE:HD1	1.68	0.59
1:D:2372:MET:HB3	1:D:2394:LEU:HD22	1.83	0.59
1:D:2647:VAL:HA	1:D:2650:TRP:HD1	1.66	0.59
1:D:2461:VAL:HG11	1:D:2751:VAL:HG22	1.84	0.59
1:F:1385:ARG:NE	1:F:2411:LYS:NZ	2.35	0.59
1:F:2521:VAL:HG13	1:F:2529:ARG:HH11	1.68	0.59
1:A:670:GLY:O	1:A:682:ASN:ND2	2.35	0.59
1:A:656:THR:OG1	1:A:880:HIS:ND1	2.35	0.59
1:B:1537:LEU:HB2	1:B:1541:GLN:H	1.67	0.59
1:C:150:THR:O	1:C:152:PRO:HD3	2.03	0.59
1:C:2521:VAL:HG13	1:C:2529:ARG:HH11	1.68	0.59
1:D:2752:ASP:OD2	1:C:2753:LYS:NZ	2.36	0.59
1:D:1008:VAL:HG13	1:D:1008:VAL:O	2.03	0.59
1:D:1309:VAL:HG22	1:D:1331:ILE:HG12	1.84	0.59
1:D:836:VAL:HG12	1:D:837:VAL:H	1.67	0.59
1:F:2212:TRP:HA	1:F:2229:LYS:HD3	1.83	0.59
1:F:2752:ASP:OD2	1:A:2753:LYS:NZ	2.36	0.59
1:F:2889:ILE:HG12	1:F:2922:LEU:HB3	1.84	0.59
1:A:2521:VAL:HG13	1:A:2529:ARG:HH11	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2889:ILE:HG12	1:A:2922:LEU:HB3	1.84	0.59
1:A:836:VAL:HG12	1:A:837:VAL:H	1.67	0.59
1:C:1656:LYS:HG2	1:C:1660:LEU:HG	1.84	0.59
1:C:575:HIS:HD2	1:C:644:LEU:HD22	1.66	0.59
1:D:795:HIS:HB3	1:D:799:PHE:CZ	2.37	0.59
1:E:1532:ILE:HA	1:E:1544:ILE:HG12	1.83	0.59
1:E:2889:ILE:HG12	1:E:2922:LEU:HB3	1.84	0.59
1:F:1989:PHE:HD1	1:F:1992:LYS:HZ3	1.50	0.59
1:A:1008:VAL:CG1	1:A:1019:PHE:HB3	2.33	0.59
1:A:1616:PRO:HG3	1:A:1668:LEU:HD13	1.85	0.59
1:A:2667:THR:HG21	1:A:3058:ARG:NH1	2.17	0.59
1:A:34:LEU:O	1:A:38:LEU:N	2.25	0.59
1:B:2820:ILE:HD13	1:B:2943:MET:HG2	1.84	0.59
1:B:462:GLN:HG3	1:B:468:PHE:HD1	1.68	0.59
1:B:488:ASN:HA	1:B:521:VAL:HB	1.83	0.59
1:B:795:HIS:HB3	1:B:799:PHE:CZ	2.37	0.59
1:B:735:LYS:HD2	1:B:860:VAL:HG23	1.85	0.59
1:D:1013:THR:CG2	1:D:1014:TRP:N	2.58	0.59
1:D:2521:VAL:HG13	1:D:2529:ARG:HH11	1.68	0.59
1:E:126:VAL:HG12	1:E:182:ALA:HB1	1.83	0.59
1:E:462:GLN:HG3	1:E:468:PHE:HD1	1.68	0.59
1:F:1008:VAL:CG2	1:F:1019:PHE:HB3	2.33	0.59
1:F:1435:VAL:HG11	1:F:1463:CYS:HB3	1.84	0.59
1:F:2461:VAL:HG11	1:F:2751:VAL:HG22	1.84	0.59
1:F:2686:MET:HE1	1:F:2935:LYS:HG3	1.83	0.59
1:B:656:THR:OG1	1:B:880:HIS:ND1	2.35	0.58
1:C:2124:ALA:O	1:C:2127:GLU:CG	2.51	0.58
1:C:2693:GLN:O	1:C:2697:HIS:ND1	2.33	0.58
1:C:2889:ILE:HG12	1:C:2922:LEU:HB3	1.84	0.58
1:D:1616:PRO:HG3	1:D:1668:LEU:HD13	1.85	0.58
1:D:2712:GLU:HA	1:D:2717:VAL:HG11	1.84	0.58
1:E:1616:PRO:HG3	1:E:1668:LEU:HD13	1.85	0.58
1:E:1989:PHE:HD1	1:E:1992:LYS:HZ3	1.50	0.58
1:F:1537:LEU:HB2	1:F:1541:GLN:H	1.67	0.58
1:F:784:GLU:OE2	1:F:787:LEU:HD12	2.03	0.58
1:A:1435:VAL:HG11	1:A:1463:CYS:HB3	1.84	0.58
1:A:2820:ILE:HD13	1:A:2943:MET:HG2	1.84	0.58
1:A:2686:MET:HE1	1:A:2935:LYS:HG3	1.84	0.58
1:A:410:LEU:HB3	1:A:1025:VAL:HG21	1.84	0.58
1:B:1616:PRO:HG3	1:B:1668:LEU:HD13	1.85	0.58
1:C:2667:THR:HG21	1:C:3058:ARG:NH1	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2084:GLN:O	1:D:2087:GLN:CG	2.51	0.58
1:D:2667:THR:HG21	1:D:3058:ARG:NH1	2.17	0.58
1:D:2820:ILE:HD13	1:D:2943:MET:HG2	1.84	0.58
1:E:688:ARG:O	1:E:872:ARG:NE	2.34	0.58
1:E:735:LYS:HD2	1:E:860:VAL:HG23	1.85	0.58
1:E:1087:PHE:HB3	1:F:117:LYS:NZ	2.18	0.58
1:F:1616:PRO:HG3	1:F:1668:LEU:HD13	1.85	0.58
1:F:2749:GLU:HB3	1:A:2749:GLU:OE2	2.02	0.58
1:A:33:ALA:O	1:A:37:ARG:N	2.35	0.58
1:A:784:GLU:OE2	1:A:787:LEU:HD12	2.04	0.58
1:C:1253:ARG:HG3	1:C:1253:ARG:NH1	2.18	0.58
1:C:129:VAL:HG13	1:C:356:PRO:HG2	1.85	0.58
1:C:1309:VAL:HG22	1:C:1331:ILE:HG12	1.84	0.58
1:C:2820:ILE:HD13	1:C:2943:MET:HG2	1.84	0.58
1:F:2876:LEU:HB3	1:F:2881:VAL:HG12	1.86	0.58
1:F:735:LYS:HD2	1:F:860:VAL:HG23	1.85	0.58
1:A:2651:ASN:HD22	1:A:2718:VAL:HG12	1.67	0.58
1:A:1087:PHE:HB3	1:B:117:LYS:NZ	2.18	0.58
1:B:1336:VAL:HG12	1:B:1337:MET:HG3	1.85	0.58
1:B:1327:VAL:HB	1:B:1339:ALA:HB3	1.86	0.58
1:C:1008:VAL:CG2	1:C:1019:PHE:HB3	2.33	0.58
1:E:2461:VAL:HG11	1:E:2751:VAL:HG22	1.84	0.58
1:E:2667:THR:HG21	1:E:3058:ARG:NH1	2.17	0.58
1:E:784:GLU:OE2	1:E:787:LEU:HD12	2.03	0.58
1:F:1008:VAL:HG23	1:F:1008:VAL:O	2.03	0.58
1:F:1336:VAL:HG12	1:F:1337:MET:HG3	1.85	0.58
1:F:2124:ALA:O	1:F:2127:GLU:CG	2.51	0.58
1:F:462:GLN:HG3	1:F:468:PHE:HD1	1.68	0.58
1:F:687:GLY:O	1:F:695:ILE:N	2.34	0.58
1:A:1656:LYS:HG2	1:A:1660:LEU:HG	1.85	0.58
1:A:2334:HIS:HD2	1:A:2391:LYS:HG3	1.66	0.58
1:B:1989:PHE:HD1	1:B:1992:LYS:HZ3	1.49	0.58
1:C:1008:VAL:O	1:C:1008:VAL:HG23	2.03	0.58
1:C:621:SER:OG	1:C:643:ILE:HD13	2.04	0.58
1:D:2487:LEU:HD11	1:D:2495:LEU:HD12	1.86	0.58
1:E:2084:GLN:O	1:E:2087:GLN:CG	2.52	0.58
1:E:2124:ALA:O	1:E:2127:GLU:CG	2.51	0.58
1:F:2084:GLN:O	1:F:2087:GLN:CG	2.52	0.58
1:F:238:SER:OG	1:F:249:THR:OG1	2.15	0.58
1:F:513:SER:O	1:F:961:ARG:NE	2.36	0.58
1:F:621:SER:OG	1:F:643:ILE:HD13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:735:LYS:HD2	1:A:860:VAL:HG23	1.85	0.58
1:B:1013:THR:CG2	1:B:1014:TRP:N	2.58	0.58
1:B:1008:VAL:CG2	1:B:1019:PHE:HB3	2.33	0.58
1:B:150:THR:O	1:B:152:PRO:HD3	2.03	0.58
1:B:2461:VAL:HG11	1:B:2751:VAL:HG22	1.84	0.58
1:B:2667:THR:HG21	1:B:3058:ARG:NH1	2.17	0.58
1:B:33:ALA:O	1:B:37:ARG:N	2.35	0.58
1:D:2124:ALA:O	1:D:2127:GLU:CG	2.51	0.58
1:D:476:GLU:HA	1:D:479:LEU:HB2	1.86	0.58
1:E:1656:LYS:HG2	1:E:1660:LEU:HG	1.85	0.58
1:E:2521:VAL:HG13	1:E:2529:ARG:HH11	1.68	0.58
1:F:129:VAL:HG13	1:F:356:PRO:HG2	1.85	0.58
1:F:476:GLU:HA	1:F:479:LEU:HB2	1.86	0.58
1:F:795:HIS:HB3	1:F:799:PHE:CZ	2.37	0.58
1:F:2749:GLU:OE2	1:A:2749:GLU:HB3	2.02	0.58
1:B:2084:GLN:O	1:B:2087:GLN:CG	2.52	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:476:GLU:HA	1:C:479:LEU:HB2	1.86	0.58
1:C:784:GLU:OE2	1:C:787:LEU:HD12	2.03	0.58
1:D:2876:LEU:HB3	1:D:2881:VAL:HG12	1.86	0.58
1:E:150:THR:O	1:E:152:PRO:HD3	2.03	0.58
1:E:127:PRO:HG3	1:E:183:GLN:HA	1.86	0.58
1:E:2800:PHE:HE1	1:E:2812:LEU:HD22	1.67	0.58
1:F:150:THR:O	1:F:152:PRO:HD3	2.03	0.58
1:A:127:PRO:HG3	1:A:183:GLN:HA	1.86	0.58
1:A:621:SER:OG	1:A:643:ILE:HD13	2.04	0.58
1:B:2124:ALA:O	1:B:2127:GLU:CG	2.51	0.58
1:B:2693:GLN:O	1:B:2697:HIS:ND1	2.33	0.58
1:B:2876:LEU:HB3	1:B:2881:VAL:HG12	1.86	0.58
1:B:511:ARG:HD2	1:B:517:ILE:O	2.04	0.58
1:B:924:LEU:O	1:B:929:GLU:N	2.30	0.58
1:C:2461:VAL:HG11	1:C:2751:VAL:HG22	1.84	0.58
1:C:2876:LEU:HB3	1:C:2881:VAL:HG12	1.86	0.58
1:C:500:GLN:O	1:C:504:LYS:N	2.24	0.58
1:C:776:ASP:O	1:C:779:TRP:N	2.31	0.58
1:D:2554:ALA:HB1	1:D:2614:LYS:HZ2	1.69	0.58
1:D:784:GLU:OE2	1:D:787:LEU:HD12	2.04	0.58
1:E:2787:THR:HA	1:E:2790:MET:HG3	1.86	0.58
1:A:3080:ARG:HG3	1:A:3080:ARG:NH1	2.09	0.58
1:B:1087:PHE:HB3	1:C:117:LYS:NZ	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2554:ALA:HB1	1:B:2614:LYS:NZ	2.19	0.58
1:E:2748:GLU:HG2	1:B:2753:LYS:NZ	2.19	0.58
1:B:2787:THR:HA	1:B:2790:MET:HG3	1.86	0.58
1:B:476:GLU:HA	1:B:479:LEU:HB2	1.86	0.58
1:C:2339:TRP:HB2	1:C:2398:LEU:HD11	1.86	0.58
1:C:441:ASP:OD2	1:C:443:LYS:HB3	2.04	0.58
1:D:410:LEU:HB3	1:D:1025:VAL:HG21	1.84	0.58
1:D:1253:ARG:NH1	1:D:1253:ARG:HG3	2.18	0.58
1:D:1537:LEU:HB2	1:D:1541:GLN:H	1.67	0.58
1:D:462:GLN:HG3	1:D:468:PHE:HD1	1.68	0.58
1:E:1008:VAL:CG1	1:E:1019:PHE:HB3	2.33	0.58
1:E:1095:LEU:HD22	1:E:1289:PRO:HA	1.85	0.58
1:D:1087:PHE:HB3	1:E:117:LYS:NZ	2.18	0.58
1:E:1336:VAL:HG12	1:E:1337:MET:HG3	1.85	0.58
1:E:1435:VAL:HG11	1:E:1463:CYS:HB3	1.84	0.58
1:E:2554:ALA:HB1	1:E:2614:LYS:NZ	2.19	0.58
1:E:776:ASP:O	1:E:779:TRP:N	2.31	0.58
1:F:1656:LYS:HG2	1:F:1660:LEU:HG	1.84	0.58
1:A:2787:THR:HA	1:A:2790:MET:HG3	1.86	0.58
1:B:1701:VAL:HG22	1:B:1732:LEU:HB2	1.84	0.58
1:D:1095:LEU:HD22	1:D:1289:PRO:HA	1.85	0.58
1:E:1091:LEU:HD13	1:E:1281:ALA:HB3	1.86	0.58
1:E:2487:LEU:HD11	1:E:2495:LEU:HD12	1.86	0.58
1:F:1405:ALA:HB3	1:F:1408:VAL:HG23	1.86	0.58
1:F:511:ARG:HD2	1:F:517:ILE:O	2.04	0.58
1:A:2124:ALA:O	1:A:2127:GLU:CG	2.51	0.57
1:A:511:ARG:NH1	1:A:543:GLY:HA3	2.19	0.57
1:B:1405:ALA:HB3	1:B:1408:VAL:HG23	1.86	0.57
1:B:784:GLU:OE2	1:B:787:LEU:HD12	2.03	0.57
1:C:2403:ILE:HG23	1:C:2408:LEU:HD12	1.85	0.57
1:C:511:ARG:NH1	1:C:543:GLY:HA3	2.19	0.57
1:D:1538:ARG:NH1	1:D:1722:PRO:HB3	2.18	0.57
1:D:3001:HIS:NE2	1:C:2724:GLN:HG2	2.19	0.57
1:D:924:LEU:HA	1:D:928:ALA:HB3	1.87	0.57
1:F:958:TRP:CZ2	1:F:1131:SER:OG	2.52	0.57
1:F:2352:ILE:HG12	1:F:2412:ALA:HB1	1.86	0.57
1:F:2787:THR:HA	1:F:2790:MET:HG3	1.86	0.57
1:A:1091:LEU:HD13	1:A:1281:ALA:HB3	1.86	0.57
1:A:117:LYS:NZ	1:C:1087:PHE:HB3	2.19	0.57
1:A:1095:LEU:HD22	1:A:1289:PRO:HA	1.85	0.57
1:A:1336:VAL:HG12	1:A:1337:MET:HG3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:150:THR:O	1:A:152:PRO:HD3	2.03	0.57
1:A:2403:ILE:HG23	1:A:2408:LEU:HD12	1.85	0.57
1:A:2876:LEU:HB3	1:A:2881:VAL:HG12	1.86	0.57
1:B:1253:ARG:HG3	1:B:1253:ARG:NH1	2.18	0.57
1:B:776:ASP:O	1:B:779:TRP:N	2.31	0.57
1:C:1537:LEU:HD11	1:C:1714:LEU:HB3	1.87	0.57
1:C:2554:ALA:HB1	1:C:2614:LYS:HZ2	1.67	0.57
1:D:2339:TRP:HB2	1:D:2398:LEU:HD11	1.86	0.57
1:E:621:SER:OG	1:E:643:ILE:HD13	2.04	0.57
1:F:2614:LYS:HZ1	1:A:2583:PHE:HD1	1.52	0.57
1:F:776:ASP:O	1:F:779:TRP:N	2.31	0.57
1:A:1253:ARG:HG3	1:A:1253:ARG:NH1	2.18	0.57
1:A:2487:LEU:HD11	1:A:2495:LEU:HD12	1.86	0.57
1:B:2521:VAL:HG13	1:B:2529:ARG:HH11	1.68	0.57
1:B:441:ASP:OD2	1:B:443:LYS:HB3	2.04	0.57
1:C:1327:VAL:HB	1:C:1339:ALA:HB3	1.86	0.57
1:D:1336:VAL:HG12	1:D:1337:MET:HG3	1.85	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:2961:LEU:HD23	1:E:2978:ARG:HB3	1.87	0.57
1:E:511:ARG:HD2	1:E:517:ILE:O	2.04	0.57
1:F:127:PRO:HG3	1:F:183:GLN:HA	1.86	0.57
1:F:1309:VAL:HG22	1:F:1331:ILE:HG12	1.84	0.57
1:F:2748:GLU:HG2	1:A:2753:LYS:NZ	2.19	0.57
1:F:2983:LEU:HB3	1:F:2987:PHE:O	2.05	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	2.20	0.57
1:A:2339:TRP:HB2	1:A:2398:LEU:HD11	1.86	0.57
1:C:1095:LEU:HD22	1:C:1289:PRO:HA	1.85	0.57
1:C:1538:ARG:NH1	1:C:1722:PRO:HB3	2.18	0.57
1:C:924:LEU:HA	1:C:928:ALA:HB3	1.87	0.57
1:D:2846:ALA:HA	1:D:3001:HIS:O	2.05	0.57
1:F:924:LEU:HA	1:F:928:ALA:HB3	1.86	0.57
1:A:2084:GLN:O	1:A:2087:GLN:CG	2.52	0.57
1:B:1008:VAL:O	1:B:1008:VAL:HG23	2.03	0.57
1:E:2724:GLN:HG2	1:B:3001:HIS:NE2	2.20	0.57
1:E:2865:ARG:NH1	1:B:3077:THR:O	2.38	0.57
1:C:1405:ALA:HB3	1:C:1408:VAL:HG23	1.86	0.57
1:C:2709:ILE:O	1:C:2713:VAL:HG13	2.05	0.57
1:D:2748:GLU:HG2	1:C:2753:LYS:NZ	2.19	0.57
1:C:2622:GLY:HA2	1:C:2812:LEU:HD11	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1008:VAL:CG1	1:D:1019:PHE:HB3	2.33	0.57
1:D:1017:ILE:HG23	1:D:1045:VAL:HG21	1.87	0.57
1:D:2403:ILE:HG23	1:D:2408:LEU:HD12	1.85	0.57
1:D:2724:GLN:HG2	1:C:3001:HIS:NE2	2.19	0.57
1:D:735:LYS:HD2	1:D:860:VAL:HG23	1.85	0.57
1:E:1017:ILE:HG23	1:E:1045:VAL:HG21	1.87	0.57
1:E:2651:ASN:HD22	1:E:2718:VAL:HG12	1.67	0.57
1:E:2731:GLY:HA2	1:B:2845:PHE:CD1	2.38	0.57
1:E:2846:ALA:HA	1:E:3001:HIS:O	2.05	0.57
1:E:476:GLU:HA	1:E:479:LEU:HB2	1.86	0.57
1:A:1008:VAL:O	1:A:1008:VAL:HG13	2.03	0.57
1:F:3001:HIS:NE2	1:A:2724:GLN:HG2	2.19	0.57
1:A:2846:ALA:HA	1:A:3001:HIS:O	2.05	0.57
1:A:441:ASP:OD2	1:A:443:LYS:HB3	2.04	0.57
1:B:2846:ALA:HA	1:B:3001:HIS:O	2.05	0.57
1:B:621:SER:OG	1:B:643:ILE:HD13	2.04	0.57
1:C:1017:ILE:HG23	1:C:1045:VAL:HG21	1.87	0.57
1:C:1616:PRO:HG3	1:C:1668:LEU:HD13	1.85	0.57
1:C:735:LYS:HD2	1:C:860:VAL:HG23	1.85	0.57
1:D:2889:ILE:HG12	1:D:2922:LEU:HB3	1.85	0.57
1:D:511:ARG:HD2	1:D:517:ILE:O	2.04	0.57
1:E:2709:ILE:O	1:E:2713:VAL:HG13	2.05	0.57
1:E:2752:ASP:OD2	1:B:2753:LYS:NZ	2.36	0.57
1:E:2876:LEU:HB3	1:E:2881:VAL:HG12	1.86	0.57
1:F:1253:ARG:HG3	1:F:1253:ARG:NH1	2.18	0.57
1:F:1445:VAL:HG23	1:F:1448:ALA:HB2	1.87	0.57
1:F:3077:THR:O	1:A:2865:ARG:NH1	2.38	0.57
1:A:2961:LEU:HD23	1:A:2978:ARG:HB3	1.87	0.57
1:A:511:ARG:HD2	1:A:517:ILE:O	2.04	0.57
1:C:2983:LEU:HB3	1:C:2987:PHE:O	2.05	0.57
1:D:2622:GLY:HA2	1:D:2812:LEU:HD11	1.87	0.57
1:E:2403:ILE:HG23	1:E:2408:LEU:HD12	1.85	0.57
1:E:2693:GLN:O	1:E:2697:HIS:ND1	2.33	0.57
1:E:511:ARG:NH1	1:E:543:GLY:HA3	2.19	0.57
1:F:1537:LEU:HD11	1:F:1714:LEU:HB3	1.87	0.57
1:A:2709:ILE:O	1:A:2713:VAL:HG13	2.05	0.57
1:B:2521:VAL:HG13	1:B:2529:ARG:NH1	2.20	0.57
1:E:2753:LYS:NZ	1:B:2748:GLU:HG2	2.19	0.57
1:C:511:ARG:HD2	1:C:517:ILE:O	2.04	0.57
1:D:1405:ALA:HB3	1:D:1408:VAL:HG23	1.86	0.57
1:D:2961:LEU:HD23	1:D:2978:ARG:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1405:ALA:HB3	1:E:1408:VAL:HG23	1.86	0.57
1:F:2865:ARG:NH1	1:A:3077:THR:O	2.38	0.57
1:A:1001:ASP:O	1:A:1002:GLN:CG	2.53	0.57
1:A:1405:ALA:HB3	1:A:1408:VAL:HG23	1.86	0.57
1:A:475:LEU:O	1:A:479:LEU:N	2.38	0.57
1:B:1126:ILE:O	1:B:1197:ARG:CG	2.53	0.57
1:B:127:PRO:HG3	1:B:183:GLN:HA	1.86	0.57
1:B:2709:ILE:O	1:B:2713:VAL:HG13	2.05	0.57
1:B:2622:GLY:HA2	1:B:2812:LEU:HD11	1.86	0.57
1:C:1445:VAL:HG23	1:C:1448:ALA:HB2	1.87	0.57
1:C:2961:LEU:HD23	1:C:2978:ARG:HB3	1.87	0.57
1:D:621:SER:OG	1:D:643:ILE:HD13	2.04	0.57
1:D:868:ARG:HB3	1:D:872:ARG:HH11	1.70	0.57
1:E:1008:VAL:O	1:E:1008:VAL:HG13	2.03	0.57
1:E:1126:ILE:O	1:E:1197:ARG:CG	2.53	0.57
1:E:1327:VAL:HB	1:E:1339:ALA:HB3	1.86	0.57
1:E:3077:THR:O	1:B:2865:ARG:NH1	2.38	0.57
1:E:129:VAL:HG13	1:E:356:PRO:HG2	1.85	0.57
1:F:2554:ALA:HB1	1:F:2614:LYS:NZ	2.19	0.57
1:F:2753:LYS:NZ	1:A:2748:GLU:HG2	2.19	0.57
1:C:127:PRO:HG3	1:C:183:GLN:HA	1.86	0.57
1:D:2753:LYS:NZ	1:C:2748:GLU:HG2	2.19	0.57
1:C:2846:ALA:HA	1:C:3001:HIS:O	2.05	0.57
1:D:1126:ILE:O	1:D:1197:ARG:CG	2.53	0.57
1:B:1537:LEU:HD11	1:B:1714:LEU:HB3	1.87	0.56
1:C:2554:ALA:HB1	1:C:2614:LYS:NZ	2.19	0.56
1:D:2653:VAL:HA	1:D:3051:MET:HE3	1.87	0.56
1:D:2865:ARG:NH1	1:C:3077:THR:O	2.38	0.56
1:D:441:ASP:OD2	1:D:443:LYS:HB3	2.04	0.56
1:D:511:ARG:NH1	1:D:543:GLY:HA3	2.19	0.56
1:E:1637:VAL:HG21	1:E:1671:TRP:CG	2.40	0.56
1:E:441:ASP:OD2	1:E:443:LYS:HB3	2.04	0.56
1:F:2487:LEU:HD11	1:F:2495:LEU:HD12	1.86	0.56
1:F:2622:GLY:HA2	1:F:2812:LEU:HD11	1.87	0.56
1:A:1327:VAL:HB	1:A:1339:ALA:HB3	1.86	0.56
1:B:1445:VAL:HG23	1:B:1448:ALA:HB2	1.87	0.56
1:B:924:LEU:HA	1:B:928:ALA:HB3	1.86	0.56
1:C:1013:THR:CG2	1:C:1014:TRP:N	2.58	0.56
1:C:1420:THR:OG1	1:C:1485:HIS:NE2	2.38	0.56
1:D:1327:VAL:HB	1:D:1339:ALA:HB3	1.86	0.56
1:D:1637:VAL:HG21	1:D:1671:TRP:CG	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1989:PHE:HD1	1:D:1992:LYS:HZ3	1.50	0.56
1:E:2521:VAL:HG13	1:E:2529:ARG:NH1	2.20	0.56
1:F:1001:ASP:O	1:F:1002:GLN:CG	2.53	0.56
1:F:2753:LYS:NZ	1:A:2752:ASP:OD2	2.36	0.56
1:F:500:GLN:O	1:F:504:LYS:N	2.24	0.56
1:F:958:TRP:O	1:F:959:ALA:HB3	2.05	0.56
1:A:1420:THR:OG1	1:A:1485:HIS:NE2	2.39	0.56
1:A:1537:LEU:HD11	1:A:1714:LEU:HB3	1.87	0.56
1:A:2554:ALA:HB1	1:A:2614:LYS:NZ	2.19	0.56
1:A:129:VAL:HG13	1:A:356:PRO:HG2	1.85	0.56
1:A:868:ARG:HB3	1:A:872:ARG:HH11	1.70	0.56
1:B:129:VAL:HG13	1:B:356:PRO:HG2	1.85	0.56
1:B:2339:TRP:HB2	1:B:2398:LEU:HD11	1.86	0.56
1:B:511:ARG:NH1	1:B:543:GLY:HA3	2.19	0.56
1:B:868:ARG:HB3	1:B:872:ARG:HH11	1.70	0.56
1:C:1637:VAL:HG21	1:C:1671:TRP:CG	2.40	0.56
1:C:475:LEU:O	1:C:479:LEU:N	2.37	0.56
1:D:1001:ASP:O	1:D:1002:GLN:CG	2.54	0.56
1:D:2521:VAL:HG13	1:D:2529:ARG:NH1	2.20	0.56
1:E:1537:LEU:HD11	1:E:1714:LEU:HB3	1.87	0.56
1:E:868:ARG:HB3	1:E:872:ARG:HH11	1.70	0.56
1:E:656:THR:OG1	1:E:880:HIS:ND1	2.35	0.56
1:E:924:LEU:HA	1:E:928:ALA:HB3	1.87	0.56
1:F:1327:VAL:HB	1:F:1339:ALA:HB3	1.86	0.56
1:F:2846:ALA:HA	1:F:3001:HIS:O	2.05	0.56
1:A:540:ASN:HD21	1:A:544:ILE:HG13	1.71	0.56
1:B:1091:LEU:HD13	1:B:1281:ALA:HB3	1.86	0.56
1:B:1538:ARG:NH1	1:B:1722:PRO:HB3	2.18	0.56
1:C:177:GLU:HB3	1:C:317:LEU:HD13	1.87	0.56
1:D:2614:LYS:HZ1	1:C:2583:PHE:HD1	1.51	0.56
1:D:2787:THR:HA	1:D:2790:MET:HG3	1.86	0.56
1:E:2957:PRO:HD3	1:E:2980:PRO:HB3	1.88	0.56
1:F:1511:ASP:H	1:F:1514:ASP:HB2	1.71	0.56
1:F:177:GLU:HB3	1:F:317:LEU:HD13	1.87	0.56
1:F:2407:GLU:CD	1:F:2411:LYS:HZ2	2.08	0.56
1:A:476:GLU:HA	1:A:479:LEU:HB2	1.86	0.56
1:B:1017:ILE:HG23	1:B:1045:VAL:HG21	1.87	0.56
1:B:2983:LEU:HB3	1:B:2987:PHE:O	2.05	0.56
1:C:1091:LEU:HD13	1:C:1281:ALA:HB3	1.86	0.56
1:C:1511:ASP:H	1:C:1514:ASP:HB2	1.71	0.56
1:C:2787:THR:HA	1:C:2790:MET:HG3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2957:PRO:HD3	1:D:2980:PRO:HB3	1.88	0.56
1:D:3077:THR:O	1:C:2865:ARG:NH1	2.38	0.56
1:E:1511:ASP:H	1:E:1514:ASP:HB2	1.71	0.56
1:E:2622:GLY:HA2	1:E:2812:LEU:HD11	1.87	0.56
1:F:2724:GLN:HG2	1:A:3001:HIS:NE2	2.19	0.56
1:A:1126:ILE:O	1:A:1197:ARG:CG	2.53	0.56
1:A:2957:PRO:HD3	1:A:2980:PRO:HB3	1.88	0.56
1:B:177:GLU:HB3	1:B:317:LEU:HD13	1.87	0.56
1:C:1126:ILE:O	1:C:1197:ARG:CG	2.53	0.56
1:C:37:ARG:O	1:C:41:GLY:N	2.39	0.56
1:D:2709:ILE:O	1:D:2713:VAL:HG13	2.05	0.56
1:E:2983:LEU:HB3	1:E:2987:PHE:O	2.05	0.56
1:F:2339:TRP:HB2	1:F:2398:LEU:HD11	1.86	0.56
1:F:490:LEU:HD23	1:F:523:SER:HB2	1.87	0.56
1:A:1445:VAL:HG23	1:A:1448:ALA:HB2	1.87	0.56
1:A:2622:GLY:HA2	1:A:2812:LEU:HD11	1.87	0.56
1:A:500:GLN:O	1:A:504:LYS:N	2.24	0.56
1:B:1637:VAL:HG21	1:B:1671:TRP:CG	2.40	0.56
1:B:37:ARG:O	1:B:41:GLY:N	2.39	0.56
1:B:490:LEU:HD23	1:B:523:SER:HB2	1.87	0.56
1:C:2521:VAL:HG13	1:C:2529:ARG:NH1	2.20	0.56
1:C:868:ARG:HB3	1:C:872:ARG:HH11	1.70	0.56
1:D:2481:MET:O	1:D:2959:ARG:NH2	2.39	0.56
1:D:776:ASP:O	1:D:779:TRP:N	2.31	0.56
1:E:2481:MET:O	1:E:2959:ARG:NH2	2.39	0.56
1:F:1013:THR:CG2	1:F:1014:TRP:N	2.58	0.56
1:F:1091:LEU:HD13	1:F:1281:ALA:HB3	1.86	0.56
1:F:1385:ARG:NH1	1:F:2411:LYS:CD	2.69	0.56
1:F:1538:ARG:NH1	1:F:1722:PRO:HB3	2.18	0.56
1:A:1637:VAL:HG21	1:A:1671:TRP:CG	2.40	0.56
1:A:2303:ASP:OD1	1:A:2303:ASP:N	2.39	0.56
1:A:2693:GLN:O	1:A:2697:HIS:ND1	2.33	0.56
1:A:2481:MET:O	1:A:2959:ARG:NH2	2.39	0.56
1:B:2487:LEU:HD11	1:B:2495:LEU:HD12	1.86	0.56
1:B:540:ASN:HD21	1:B:544:ILE:HG13	1.71	0.56
1:D:2983:LEU:HB3	1:D:2987:PHE:O	2.05	0.56
1:E:1010:LEU:O	1:E:1017:ILE:N	2.29	0.56
1:E:1496:SER:HB3	1:E:1578:ASP:HB3	1.88	0.56
1:E:2478:ARG:NH1	1:E:2482:GLU:OE1	2.39	0.56
1:F:1637:VAL:HG21	1:F:1671:TRP:CG	2.40	0.56
1:A:2881:VAL:HG13	1:A:2885:ASP:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:924:LEU:HA	1:A:928:ALA:HB3	1.86	0.56
1:C:2303:ASP:N	1:C:2303:ASP:OD1	2.39	0.56
1:C:2881:VAL:HG13	1:C:2885:ASP:HB2	1.88	0.56
1:C:2957:PRO:HD3	1:C:2980:PRO:HB3	1.88	0.56
1:D:1091:LEU:HD13	1:D:1281:ALA:HB3	1.86	0.56
1:D:475:LEU:O	1:D:479:LEU:N	2.37	0.56
1:D:540:ASN:HD21	1:D:544:ILE:HG13	1.71	0.56
1:E:1618:LEU:HG	1:E:1619:VAL:HG23	1.88	0.56
1:E:37:ARG:O	1:E:41:GLY:N	2.39	0.56
1:F:1126:ILE:O	1:F:1197:ARG:CG	2.53	0.56
1:F:2521:VAL:HG13	1:F:2529:ARG:NH1	2.20	0.56
1:F:2709:ILE:O	1:F:2713:VAL:HG13	2.05	0.56
1:A:2521:VAL:HG13	1:A:2529:ARG:NH1	2.20	0.56
1:C:1001:ASP:O	1:C:1002:GLN:CG	2.53	0.56
1:F:144:GLY:O	1:F:148:THR:N	2.34	0.56
1:F:37:ARG:O	1:F:41:GLY:N	2.39	0.56
1:A:1511:ASP:H	1:A:1514:ASP:HB2	1.71	0.56
1:B:1001:ASP:O	1:B:1002:GLN:CG	2.53	0.56
1:B:1496:SER:HB3	1:B:1578:ASP:HB3	1.88	0.56
1:C:2478:ARG:NH1	1:C:2482:GLU:OE1	2.39	0.56
1:D:2554:ALA:HB1	1:D:2614:LYS:NZ	2.19	0.56
1:D:2881:VAL:HG13	1:D:2885:ASP:HB2	1.88	0.56
1:E:2881:VAL:HG13	1:E:2885:ASP:HB2	1.88	0.56
1:E:3001:HIS:NE2	1:B:2724:GLN:HG2	2.19	0.56
1:F:2481:MET:O	1:F:2959:ARG:NH2	2.39	0.56
1:A:1017:ILE:HG23	1:A:1045:VAL:HG21	1.87	0.55
1:C:2481:MET:O	1:C:2959:ARG:NH2	2.39	0.55
1:E:2339:TRP:HB2	1:E:2398:LEU:HD11	1.86	0.55
1:E:2743:ALA:HB3	1:E:2939:ALA:HB3	1.89	0.55
1:F:1037:ASP:OD2	1:F:1043:ARG:N	2.40	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:2983:LEU:HB3	1:A:2987:PHE:O	2.05	0.55
1:B:1511:ASP:H	1:B:1514:ASP:HB2	1.70	0.55
1:E:2753:LYS:HZ2	1:B:2748:GLU:HG2	1.71	0.55
1:B:2481:MET:O	1:B:2959:ARG:NH2	2.39	0.55
1:B:745:THR:OG1	1:B:834:GLU:O	2.19	0.55
1:D:2478:ARG:NH1	1:D:2482:GLU:OE1	2.39	0.55
1:D:2962:ASP:N	1:D:2962:ASP:OD1	2.34	0.55
1:D:975:GLU:CG	1:D:976:TRP:N	2.70	0.55
1:E:1001:ASP:O	1:E:1002:GLN:CG	2.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2845:PHE:CD1	1:A:2731:GLY:HA2	2.39	0.55
1:F:868:ARG:HB3	1:F:872:ARG:HH11	1.70	0.55
1:A:144:GLY:O	1:A:148:THR:N	2.34	0.55
1:A:1496:SER:HB3	1:A:1578:ASP:HB3	1.89	0.55
1:A:2743:ALA:HB3	1:A:2939:ALA:HB3	1.88	0.55
1:B:475:LEU:O	1:B:479:LEU:N	2.37	0.55
1:D:2704:ALA:O	1:D:2705:LYS:HD3	2.07	0.55
1:A:2810:GLY:HA2	1:A:2896:THR:HA	1.89	0.55
1:B:238:SER:OG	1:B:249:THR:OG1	2.15	0.55
1:B:2478:ARG:NH1	1:B:2482:GLU:OE1	2.39	0.55
1:C:33:ALA:O	1:C:37:ARG:N	2.35	0.55
1:D:1511:ASP:H	1:D:1514:ASP:HB2	1.71	0.55
1:D:2303:ASP:N	1:D:2303:ASP:OD1	2.39	0.55
1:E:1445:VAL:HG23	1:E:1448:ALA:HB2	1.87	0.55
1:E:1734:SER:HA	1:E:1741:LEU:HD11	1.89	0.55
1:E:540:ASN:HD21	1:E:544:ILE:HG13	1.71	0.55
1:E:1087:PHE:HB3	1:F:117:LYS:HZ1	1.70	0.55
1:F:1496:SER:HB3	1:F:1578:ASP:HB3	1.89	0.55
1:F:2743:ALA:HB3	1:F:2939:ALA:HB3	1.88	0.55
1:F:513:SER:C	1:F:961:ARG:HH11	2.02	0.55
1:A:37:ARG:O	1:A:41:GLY:N	2.38	0.55
1:A:975:GLU:CG	1:A:976:TRP:N	2.70	0.55
1:C:2704:ALA:O	1:C:2705:LYS:HD3	2.07	0.55
1:C:540:ASN:HD21	1:C:544:ILE:HG13	1.71	0.55
1:C:551:PRO:HG3	1:C:560:VAL:HG21	1.89	0.55
1:D:551:PRO:HG3	1:D:560:VAL:HG21	1.89	0.55
1:E:2810:GLY:HA2	1:E:2896:THR:HA	1.89	0.55
1:E:475:LEU:O	1:E:479:LEU:N	2.37	0.55
1:F:958:TRP:N	1:F:958:TRP:CD1	2.73	0.55
1:A:177:GLU:HB3	1:A:317:LEU:HD13	1.87	0.55
1:B:1420:THR:OG1	1:B:1485:HIS:NE2	2.38	0.55
1:B:975:GLU:CG	1:B:976:TRP:N	2.70	0.55
1:C:1618:LEU:HG	1:C:1619:VAL:HG23	1.88	0.55
1:E:2303:ASP:OD1	1:E:2303:ASP:N	2.39	0.55
1:E:2704:ALA:O	1:E:2705:LYS:HD3	2.07	0.55
1:E:490:LEU:HD23	1:E:523:SER:HB2	1.87	0.55
1:F:176:VAL:O	1:F:180:ALA:N	2.36	0.55
1:F:2704:ALA:O	1:F:2705:LYS:HD3	2.07	0.55
1:F:2957:PRO:HD3	1:F:2980:PRO:HB3	1.88	0.55
1:F:975:GLU:CG	1:F:976:TRP:N	2.70	0.55
1:A:2478:ARG:NH1	1:A:2482:GLU:OE1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2704:ALA:O	1:B:2705:LYS:HD3	2.07	0.55
1:A:117:LYS:HZ3	1:C:1087:PHE:HB3	1.70	0.55
1:C:490:LEU:HD23	1:C:523:SER:HB2	1.87	0.55
1:E:177:GLU:HB3	1:E:317:LEU:HD13	1.87	0.55
1:B:2743:ALA:HB3	1:B:2939:ALA:HB3	1.88	0.55
1:B:2961:LEU:HD23	1:B:2978:ARG:HB3	1.87	0.55
1:C:1690:GLU:O	1:C:1694:GLY:N	2.40	0.55
1:C:975:GLU:CG	1:C:976:TRP:N	2.70	0.55
1:D:490:LEU:HD23	1:D:523:SER:HB2	1.87	0.55
1:D:737:TYR:HE1	1:D:862:VAL:HA	1.72	0.55
1:D:1724:TYR:OH	1:E:267:GLU:OE2	2.07	0.55
1:E:2458:ALA:HA	1:E:2824:ARG:HD2	1.89	0.55
1:F:1038:ALA:CA	1:F:1126:ILE:HA	2.37	0.55
1:F:2881:VAL:HG13	1:F:2885:ASP:HB2	1.88	0.55
1:A:1357:ILE:HG13	1:A:1710:THR:HG21	1.89	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:A:2458:ALA:HA	1:A:2824:ARG:HD2	1.89	0.55
1:A:490:LEU:HD23	1:A:523:SER:HB2	1.87	0.55
1:A:580:ARG:HH11	1:A:614:GLY:HA3	1.72	0.55
1:B:1087:PHE:HB3	1:C:117:LYS:HZ3	1.71	0.55
1:B:2458:ALA:HA	1:B:2824:ARG:HD2	1.89	0.55
1:C:931:VAL:HG13	1:C:933:VAL:CG2	2.37	0.55
1:E:1357:ILE:HG13	1:E:1710:THR:HG21	1.89	0.55
1:E:737:TYR:HE1	1:E:862:VAL:HA	1.72	0.55
1:E:975:GLU:CG	1:E:976:TRP:N	2.70	0.55
1:B:2881:VAL:HG13	1:B:2885:ASP:HB2	1.88	0.55
1:C:2810:GLY:HA2	1:C:2896:THR:HA	1.88	0.55
1:E:1253:ARG:NH1	1:E:1253:ARG:HG3	2.18	0.55
1:A:1010:LEU:O	1:A:1017:ILE:N	2.29	0.54
1:A:1618:LEU:HG	1:A:1619:VAL:HG23	1.88	0.54
1:B:1690:GLU:O	1:B:1694:GLY:N	2.40	0.54
1:E:2845:PHE:CD1	1:B:2731:GLY:HA2	2.39	0.54
1:B:737:TYR:HE1	1:B:862:VAL:HA	1.72	0.54
1:D:1690:GLU:O	1:D:1694:GLY:N	2.40	0.54
1:D:2810:GLY:HA2	1:D:2896:THR:HA	1.89	0.54
1:F:1020:THR:O	1:F:1035:VAL:N	2.40	0.54
1:F:1357:ILE:HG13	1:F:1710:THR:HG21	1.89	0.54
1:F:540:ASN:HD21	1:F:544:ILE:HG13	1.71	0.54
1:A:2704:ALA:O	1:A:2705:LYS:HD3	2.07	0.54
1:B:2957:PRO:HD3	1:B:2980:PRO:HB3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2417:SER:O	1:D:2421:ASP:N	2.40	0.54
1:D:2845:PHE:CD1	1:C:2731:GLY:HA2	2.39	0.54
1:D:668:THR:OG1	1:D:698:ILE:HD11	2.08	0.54
1:D:931:VAL:HG13	1:D:933:VAL:CG1	2.37	0.54
1:A:551:PRO:HG3	1:A:560:VAL:HG21	1.89	0.54
1:D:1618:LEU:HG	1:D:1619:VAL:HG23	1.88	0.54
1:E:1690:GLU:O	1:E:1694:GLY:N	2.40	0.54
1:F:1690:GLU:O	1:F:1694:GLY:N	2.40	0.54
1:F:2303:ASP:OD1	1:F:2303:ASP:N	2.39	0.54
1:F:2458:ALA:HA	1:F:2824:ARG:HD2	1.89	0.54
1:A:2653:VAL:HA	1:A:3051:MET:HE3	1.88	0.54
1:C:2458:ALA:HA	1:C:2824:ARG:HD2	1.89	0.54
1:C:580:ARG:HH11	1:C:614:GLY:HA3	1.73	0.54
1:C:763:SER:O	1:C:766:ASP:N	2.41	0.54
1:E:2012:GLY:C	1:F:2591:ARG:NH1	2.61	0.54
1:E:580:ARG:HH11	1:E:614:GLY:HA3	1.73	0.54
1:E:668:THR:OG1	1:E:698:ILE:HD11	2.08	0.54
1:F:475:LEU:O	1:F:479:LEU:N	2.37	0.54
1:F:931:VAL:HG13	1:F:933:VAL:CG1	2.37	0.54
1:B:551:PRO:HG3	1:B:560:VAL:HG21	1.89	0.54
1:D:1420:THR:OG1	1:D:1485:HIS:NE2	2.38	0.54
1:D:763:SER:O	1:D:766:ASP:N	2.41	0.54
1:F:1618:LEU:HG	1:F:1619:VAL:HG23	1.88	0.54
1:F:1734:SER:HA	1:F:1741:LEU:HD11	1.89	0.54
1:B:1226:ARG:HB3	1:B:1282:THR:HG21	1.90	0.54
1:B:2551:PRO:O	1:B:2617:LEU:HB2	2.08	0.54
1:B:273:ARG:HD2	1:B:282:VAL:HG12	1.90	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:716:ALA:HA	1:C:719:VAL:HG23	1.90	0.54
1:D:2743:ALA:HB3	1:D:2939:ALA:HB3	1.88	0.54
1:E:2417:SER:O	1:E:2421:ASP:N	2.40	0.54
1:D:2012:GLY:C	1:E:2591:ARG:NH1	2.61	0.54
1:E:551:PRO:HG3	1:E:560:VAL:HG21	1.89	0.54
1:A:2551:PRO:O	1:A:2617:LEU:HB2	2.08	0.54
1:A:763:SER:O	1:A:766:ASP:N	2.41	0.54
1:A:737:TYR:HE1	1:A:862:VAL:HA	1.72	0.54
1:B:2768:ASP:OD2	1:B:2936:GLY:N	2.41	0.54
1:B:2860:ALA:HB1	1:B:3005:LEU:HD13	1.90	0.54
1:B:931:VAL:HG13	1:B:933:VAL:CG2	2.37	0.54
1:C:1734:SER:HA	1:C:1741:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2012:GLY:C	1:C:2591:ARG:NH1	2.61	0.54
1:C:2631:PRO:HG3	1:C:2649:LEU:HD13	1.90	0.54
1:C:273:ARG:HD2	1:C:282:VAL:HG12	1.90	0.54
1:C:737:TYR:HE1	1:C:862:VAL:HA	1.72	0.54
1:D:2731:GLY:HA2	1:C:2845:PHE:CD1	2.39	0.54
1:D:580:ARG:HH11	1:D:614:GLY:HA3	1.72	0.54
1:D:624:TYR:HA	1:D:629:TRP:CD1	2.43	0.54
1:E:368:ILE:HG21	1:E:373:ILE:HG13	1.90	0.54
1:F:1037:ASP:HB3	1:F:1042:MET:HG3	1.89	0.54
1:F:551:PRO:HG3	1:F:560:VAL:HG21	1.89	0.54
1:F:668:THR:OG1	1:F:698:ILE:HD11	2.08	0.54
1:F:737:TYR:HE1	1:F:862:VAL:HA	1.72	0.54
1:A:668:THR:OG1	1:A:698:ILE:HD11	2.08	0.54
1:C:1496:SER:HB3	1:C:1578:ASP:HB3	1.89	0.54
1:D:1734:SER:HA	1:D:1741:LEU:HD11	1.89	0.54
1:D:2551:PRO:O	1:D:2617:LEU:HB2	2.08	0.54
1:D:716:ALA:HA	1:D:719:VAL:HG23	1.90	0.54
1:E:2551:PRO:O	1:E:2617:LEU:HB2	2.08	0.54
1:F:2731:GLY:HA2	1:A:2845:PHE:CD1	2.38	0.54
1:F:2860:ALA:HB1	1:F:3005:LEU:HD13	1.90	0.54
1:E:1151:GLU:HB2	1:E:1179:ALA:HB3	1.90	0.54
1:E:33:ALA:O	1:E:37:ARG:N	2.35	0.54
1:E:33:ALA:O	1:E:37:ARG:HG2	2.08	0.54
1:F:526:ILE:HD12	1:F:549:PHE:HB3	1.90	0.54
1:F:580:ARG:HH11	1:F:614:GLY:HA3	1.73	0.54
1:F:792:ALA:HA	1:F:799:PHE:CE2	2.43	0.54
1:A:2768:ASP:OD2	1:A:2936:GLY:N	2.41	0.54
1:A:2860:ALA:HB1	1:A:3005:LEU:HD13	1.90	0.54
1:A:624:TYR:HA	1:A:629:TRP:CD1	2.43	0.54
1:B:2810:GLY:HA2	1:B:2896:THR:HA	1.89	0.54
1:B:456:GLU:HG2	1:B:486:GLN:HE21	1.73	0.54
1:C:2743:ALA:HB3	1:C:2939:ALA:HB3	1.89	0.54
1:C:668:THR:OG1	1:C:698:ILE:HD11	2.08	0.54
1:F:1010:LEU:O	1:F:1017:ILE:N	2.30	0.54
1:F:1089:ALA:O	1:F:1091:LEU:N	2.42	0.54
1:F:3018:LEU:O	1:F:3022:GLU:HB2	2.08	0.54
1:A:1226:ARG:HB3	1:A:1282:THR:HG21	1.90	0.53
1:A:368:ILE:HG21	1:A:373:ILE:HG13	1.90	0.53
1:B:526:ILE:HD12	1:B:549:PHE:HB3	1.90	0.53
1:B:668:THR:OG1	1:B:698:ILE:HD11	2.08	0.53
1:C:2551:PRO:O	1:C:2617:LEU:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2768:ASP:OD2	1:C:2936:GLY:N	2.41	0.53
1:C:2860:ALA:HB1	1:C:3005:LEU:HD13	1.90	0.53
1:D:1496:SER:HB3	1:D:1578:ASP:HB3	1.89	0.53
1:E:2768:ASP:OD2	1:E:2936:GLY:N	2.41	0.53
1:E:2860:ALA:HB1	1:E:3005:LEU:HD13	1.90	0.53
1:D:2591:ARG:NH1	1:F:2012:GLY:C	2.61	0.53
1:F:2768:ASP:OD2	1:F:2936:GLY:N	2.41	0.53
1:F:763:SER:O	1:F:766:ASP:N	2.41	0.53
1:A:1174:VAL:HB	1:A:1188:LEU:HB3	1.91	0.53
1:A:2012:GLY:C	1:B:2591:ARG:NH1	2.61	0.53
1:A:2492:VAL:HG21	1:A:2527:VAL:HG22	1.90	0.53
1:C:1488:VAL:HG12	1:C:1490:ARG:HH11	1.73	0.53
1:C:2492:VAL:HG21	1:C:2527:VAL:HG22	1.90	0.53
1:C:624:TYR:HA	1:C:629:TRP:CD1	2.43	0.53
1:D:1089:ALA:O	1:D:1091:LEU:N	2.42	0.53
1:D:2246:ALA:C	1:D:2255:ARG:HH12	2.11	0.53
1:D:2860:ALA:HB1	1:D:3005:LEU:HD13	1.90	0.53
1:E:1323:GLU:N	1:E:1343:LEU:O	2.41	0.53
1:E:2246:ALA:C	1:E:2255:ARG:HH12	2.11	0.53
1:E:624:TYR:HA	1:E:629:TRP:CD1	2.43	0.53
1:F:2810:GLY:HA2	1:F:2896:THR:HA	1.89	0.53
1:A:716:ALA:HA	1:A:719:VAL:HG23	1.90	0.53
1:B:1151:GLU:HB2	1:B:1179:ALA:HB3	1.90	0.53
1:B:1618:LEU:HG	1:B:1619:VAL:HG23	1.88	0.53
1:B:2492:VAL:HG21	1:B:2527:VAL:HG22	1.90	0.53
1:B:580:ARG:HH11	1:B:614:GLY:HA3	1.72	0.53
1:B:745:THR:HG23	1:B:834:GLU:HA	1.90	0.53
1:A:2591:ARG:NH1	1:C:2012:GLY:C	2.61	0.53
1:C:2653:VAL:HA	1:C:3051:MET:HE3	1.90	0.53
1:F:2246:ALA:C	1:F:2255:ARG:HH12	2.12	0.53
1:F:1385:ARG:HD2	1:F:2407:GLU:OE1	2.08	0.53
1:A:1148:GLU:O	1:A:1150:ALA:N	2.42	0.53
1:A:745:THR:HG23	1:A:834:GLU:HA	1.90	0.53
1:B:1734:SER:HA	1:B:1741:LEU:HD11	1.89	0.53
1:B:2103:TRP:CG	1:B:2919:GLY:O	2.62	0.53
1:B:2303:ASP:N	1:B:2303:ASP:OD1	2.39	0.53
1:C:1089:ALA:O	1:C:1091:LEU:N	2.42	0.53
1:C:1425:VAL:HG13	1:C:1474:LEU:HD13	1.91	0.53
1:C:368:ILE:HG21	1:C:373:ILE:HG13	1.90	0.53
1:D:1425:VAL:HG13	1:D:1474:LEU:HD13	1.91	0.53
1:E:1226:ARG:HB3	1:E:1282:THR:HG21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1420:THR:OG1	1:E:1485:HIS:NE2	2.38	0.53
1:A:71:GLU:HG2	1:A:142:ARG:NH2	2.24	0.53
1:B:1357:ILE:HG13	1:B:1710:THR:HG21	1.89	0.53
1:B:624:TYR:HA	1:B:629:TRP:CD1	2.43	0.53
1:B:763:SER:O	1:B:766:ASP:N	2.41	0.53
1:C:1530:LEU:HD21	1:C:1554:LEU:HD22	1.91	0.53
1:D:2103:TRP:CG	1:D:2919:GLY:O	2.62	0.53
1:D:3018:LEU:O	1:D:3022:GLU:HB2	2.08	0.53
1:D:745:THR:HG23	1:D:834:GLU:HA	1.90	0.53
1:E:2492:VAL:HG21	1:E:2527:VAL:HG22	1.90	0.53
1:E:3018:LEU:O	1:E:3022:GLU:HB2	2.08	0.53
1:E:526:ILE:HD12	1:E:549:PHE:HB3	1.90	0.53
1:E:763:SER:O	1:E:766:ASP:N	2.41	0.53
1:F:1151:GLU:HB2	1:F:1179:ALA:HB3	1.90	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:624:TYR:HA	1:F:629:TRP:CD1	2.43	0.53
1:A:1323:GLU:N	1:A:1343:LEU:O	2.42	0.53
1:A:2246:ALA:C	1:A:2255:ARG:HH12	2.12	0.53
1:A:588:GLU:HB3	1:A:593:LEU:HD11	1.91	0.53
1:B:1010:LEU:O	1:B:1017:ILE:N	2.29	0.53
1:B:2631:PRO:HG3	1:B:2649:LEU:HD13	1.90	0.53
1:C:2087:GLN:HA	1:C:2090:GLU:CG	2.39	0.53
1:D:1357:ILE:HG13	1:D:1710:THR:HG21	1.89	0.53
1:D:2418:GLY:O	1:D:2422:GLU:N	2.40	0.53
1:D:2583:PHE:HD1	1:C:2614:LYS:HZ1	1.51	0.53
1:E:2631:PRO:HG3	1:E:2649:LEU:HD13	1.90	0.53
1:E:931:VAL:HG13	1:E:933:VAL:CG1	2.37	0.53
1:F:1174:VAL:HB	1:F:1188:LEU:HB3	1.91	0.53
1:A:1089:ALA:O	1:A:1091:LEU:N	2.42	0.53
1:A:273:ARG:HD2	1:A:282:VAL:HG12	1.90	0.53
1:D:2753:LYS:HZ2	1:C:2748:GLU:HG2	1.73	0.53
1:C:71:GLU:HG2	1:C:142:ARG:NH2	2.24	0.53
1:D:1530:LEU:HD21	1:D:1554:LEU:HD22	1.91	0.53
1:E:1174:VAL:HB	1:E:1188:LEU:HB3	1.91	0.53
1:E:1425:VAL:HG13	1:E:1474:LEU:HD13	1.91	0.53
1:E:745:THR:HG23	1:E:834:GLU:HA	1.90	0.53
1:F:2087:GLN:HA	1:F:2090:GLU:CG	2.39	0.53
1:A:1425:VAL:HG13	1:A:1474:LEU:HD13	1.91	0.53
1:A:1634:ARG:HD2	1:A:1638:PRO:HA	1.91	0.53
1:A:2089:PHE:HA	1:A:2188:ARG:HH11	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2087:GLN:HA	1:A:2090:GLU:CG	2.39	0.53
1:B:2246:ALA:C	1:B:2255:ARG:HH12	2.11	0.53
1:D:2693:GLN:O	1:D:2697:HIS:ND1	2.33	0.53
1:E:2215:THR:HG22	1:E:2216:GLU:HG3	1.91	0.53
1:E:273:ARG:HD2	1:E:282:VAL:HG12	1.90	0.53
1:E:2103:TRP:CG	1:E:2919:GLY:O	2.62	0.53
1:E:588:GLU:HB3	1:E:593:LEU:HD11	1.91	0.53
1:F:1020:THR:HB	1:F:1035:VAL:HG22	1.90	0.53
1:F:2492:VAL:HG21	1:F:2527:VAL:HG22	1.90	0.53
1:F:716:ALA:HA	1:F:719:VAL:HG23	1.90	0.53
1:F:958:TRP:H	1:F:958:TRP:HD1	1.56	0.53
1:A:2103:TRP:CG	1:A:2919:GLY:O	2.62	0.53
1:A:456:GLU:HG2	1:A:486:GLN:HE21	1.73	0.53
1:B:1148:GLU:O	1:B:1150:ALA:N	2.42	0.53
1:B:2417:SER:O	1:B:2421:ASP:N	2.40	0.53
1:B:368:ILE:HG21	1:B:373:ILE:HG13	1.90	0.53
1:C:1357:ILE:HG13	1:C:1710:THR:HG21	1.89	0.53
1:C:456:GLU:HG2	1:C:486:GLN:HE21	1.73	0.53
1:D:2087:GLN:HA	1:D:2090:GLU:CG	2.39	0.53
1:D:526:ILE:HD12	1:D:549:PHE:HB3	1.90	0.53
1:F:2551:PRO:O	1:F:2617:LEU:HB2	2.08	0.53
1:F:745:THR:HG23	1:F:834:GLU:HA	1.90	0.53
1:A:1225:ARG:CG	1:A:1283:ASP:OD1	2.57	0.53
1:C:1010:LEU:O	1:C:1017:ILE:N	2.29	0.53
1:C:526:ILE:HD12	1:C:549:PHE:HB3	1.90	0.53
1:D:1226:ARG:HB3	1:D:1282:THR:HG21	1.90	0.53
1:E:1634:ARG:HD2	1:E:1638:PRO:HA	1.91	0.53
1:E:2087:GLN:HA	1:E:2090:GLU:CG	2.39	0.53
1:F:1042:MET:O	1:F:1045:VAL:N	2.34	0.53
1:F:1385:ARG:CD	1:F:2407:GLU:OE2	2.56	0.53
1:F:2631:PRO:HG3	1:F:2649:LEU:HD13	1.90	0.53
1:A:1538:ARG:NH1	1:A:1722:PRO:HB3	2.18	0.52
1:A:776:ASP:O	1:A:779:TRP:N	2.31	0.52
1:B:2653:VAL:HA	1:B:3051:MET:HE3	1.90	0.52
1:B:411:PRO:HD2	1:B:1025:VAL:HG11	1.91	0.52
1:B:716:ALA:HA	1:B:719:VAL:HG23	1.90	0.52
1:C:3018:LEU:O	1:C:3022:GLU:HB2	2.08	0.52
1:C:745:THR:HG23	1:C:834:GLU:HA	1.90	0.52
1:D:1151:GLU:HB2	1:D:1179:ALA:HB3	1.90	0.52
1:D:2492:VAL:HG21	1:D:2527:VAL:HG22	1.90	0.52
1:D:2631:PRO:HG3	1:D:2649:LEU:HD13	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2768:ASP:OD2	1:D:2936:GLY:N	2.41	0.52
1:D:456:GLU:HG2	1:D:486:GLN:HE21	1.73	0.52
1:E:1089:ALA:O	1:E:1091:LEU:N	2.42	0.52
1:E:411:PRO:HD2	1:E:1025:VAL:HG11	1.91	0.52
1:E:456:GLU:HG2	1:E:486:GLN:HE21	1.73	0.52
1:F:2417:SER:O	1:F:2421:ASP:N	2.40	0.52
1:A:411:PRO:HD2	1:A:1025:VAL:HG11	1.91	0.52
1:A:176:VAL:O	1:A:180:ALA:N	2.36	0.52
1:A:208:VAL:HG12	1:A:248:ILE:HG12	1.91	0.52
1:A:931:VAL:HG13	1:A:933:VAL:CG1	2.37	0.52
1:C:1323:GLU:N	1:C:1343:LEU:O	2.41	0.52
1:C:33:ALA:O	1:C:37:ARG:HG2	2.08	0.52
1:D:1148:GLU:O	1:D:1150:ALA:N	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:D:961:ARG:NH2	1:D:1196:GLY:O	2.42	0.52
1:E:716:ALA:HA	1:E:719:VAL:HG23	1.90	0.52
1:F:1225:ARG:CG	1:F:1283:ASP:OD1	2.57	0.52
1:F:208:VAL:HG12	1:F:248:ILE:HG12	1.92	0.52
1:F:368:ILE:HG21	1:F:373:ILE:HG13	1.90	0.52
1:A:1110:VAL:HG13	1:A:1172:VAL:HG11	1.92	0.52
1:A:1151:GLU:HB2	1:A:1179:ALA:HB3	1.90	0.52
1:B:1733:ASN:HD22	1:B:1736:ARG:HD2	1.74	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:144:GLY:O	1:C:148:THR:N	2.33	0.52
1:C:1733:ASN:HD22	1:C:1736:ARG:HD2	1.74	0.52
1:C:2246:ALA:C	1:C:2255:ARG:HH12	2.11	0.52
1:D:2737:VAL:HG21	1:C:2715:PRO:HB2	1.92	0.52
1:D:1488:VAL:HG12	1:D:1490:ARG:HH11	1.73	0.52
1:D:2740:CYS:HB2	1:D:2998:GLY:HA2	1.92	0.52
1:E:1119:THR:O	1:E:1123:PHE:HB2	2.10	0.52
1:E:2089:PHE:HA	1:E:2188:ARG:HH11	1.74	0.52
1:F:1148:GLU:O	1:F:1150:ALA:N	2.42	0.52
1:A:2215:THR:HG22	1:A:2216:GLU:HG3	1.91	0.52
1:F:2737:VAL:HG21	1:A:2715:PRO:HB2	1.91	0.52
1:A:33:ALA:O	1:A:37:ARG:HG2	2.08	0.52
1:B:1225:ARG:CG	1:B:1283:ASP:OD1	2.57	0.52
1:B:1488:VAL:HG12	1:B:1490:ARG:HH11	1.74	0.52
1:B:33:ALA:O	1:B:37:ARG:HG2	2.08	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:D:2715:PRO:HB2	1:C:2737:VAL:HG21	1.92	0.52
1:D:1225:ARG:CG	1:D:1283:ASP:OD1	2.57	0.52
1:D:1634:ARG:HD2	1:D:1638:PRO:HA	1.91	0.52
1:D:411:PRO:HD2	1:D:1025:VAL:HG11	1.91	0.52
1:D:792:ALA:HA	1:D:799:PHE:CE2	2.43	0.52
1:E:1093:PRO:HB3	1:E:1277:HIS:HE1	1.75	0.52
1:E:2962:ASP:OD1	1:E:2962:ASP:N	2.34	0.52
1:F:1037:ASP:CB	1:F:1042:MET:H	2.23	0.52
1:F:71:GLU:HG2	1:F:142:ARG:NH2	2.24	0.52
1:F:1634:ARG:HD2	1:F:1638:PRO:HA	1.91	0.52
1:F:2418:GLY:O	1:F:2422:GLU:N	2.40	0.52
1:F:33:ALA:O	1:F:37:ARG:HG2	2.09	0.52
1:F:958:TRP:NE1	1:F:961:ARG:HB2	2.25	0.52
1:A:1733:ASN:HD22	1:A:1736:ARG:HD2	1.74	0.52
1:A:3018:LEU:O	1:A:3022:GLU:HB2	2.08	0.52
1:A:526:ILE:HD12	1:A:549:PHE:HB3	1.90	0.52
1:A:542:VAL:HG11	1:A:964:VAL:HB	1.92	0.52
1:A:930:PRO:O	1:A:930:PRO:CG	2.57	0.52
1:B:1174:VAL:HB	1:B:1188:LEU:HB3	1.91	0.52
1:B:1323:GLU:N	1:B:1343:LEU:O	2.42	0.52
1:C:1634:ARG:HD2	1:C:1638:PRO:HA	1.91	0.52
1:C:2089:PHE:HA	1:C:2188:ARG:HH11	1.74	0.52
1:C:2103:TRP:CG	1:C:2919:GLY:O	2.62	0.52
1:C:400:TRP:CZ3	1:C:636:PRO:HB2	2.45	0.52
1:E:1148:GLU:O	1:E:1150:ALA:N	2.42	0.52
1:E:208:VAL:HG12	1:E:248:ILE:HG12	1.92	0.52
1:F:1021:LEU:CD2	1:F:1034:GLU:CG	2.81	0.52
1:F:1037:ASP:HA	1:F:1038:ALA:C	2.26	0.52
1:F:1420:THR:OG1	1:F:1485:HIS:NE2	2.39	0.52
1:F:456:GLU:HG2	1:F:486:GLN:HE21	1.73	0.52
1:A:208:VAL:HB	1:A:255:LEU:HD13	1.92	0.52
1:A:400:TRP:CZ3	1:A:636:PRO:HB2	2.45	0.52
1:B:1089:ALA:O	1:B:1091:LEU:N	2.41	0.52
1:B:2698:GLY:HA3	1:B:2705:LYS:HG3	1.92	0.52
1:C:1226:ARG:HB3	1:C:1282:THR:HG21	1.90	0.52
1:C:2808:ARG:HB2	1:C:2895:SER:O	2.10	0.52
1:C:2962:ASP:OD1	1:C:2962:ASP:N	2.34	0.52
1:E:106:ALA:O	1:E:112:PRO:HD2	2.10	0.52
1:E:71:GLU:HG2	1:E:142:ARG:NH2	2.24	0.52
1:E:2418:GLY:O	1:E:2422:GLU:N	2.40	0.52
1:E:208:VAL:HB	1:E:255:LEU:HD13	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:542:VAL:HG11	1:E:964:VAL:HB	1.92	0.52
1:E:400:TRP:CZ3	1:E:636:PRO:HB2	2.45	0.52
1:F:960:GLY:CA	1:F:1126:ILE:HD13	2.39	0.52
1:F:1110:VAL:HG13	1:F:1172:VAL:HG11	1.92	0.52
1:F:1733:ASN:HD22	1:F:1736:ARG:HD2	1.74	0.52
1:F:1385:ARG:CD	1:F:2407:GLU:CD	2.73	0.52
1:F:2552:ASP:OD1	1:F:2552:ASP:N	2.43	0.52
1:F:931:VAL:HG13	1:F:933:VAL:HG13	1.92	0.52
1:A:2740:CYS:HB2	1:A:2998:GLY:HA2	1.92	0.52
1:B:1530:LEU:HD21	1:B:1554:LEU:HD22	1.91	0.52
1:B:1695:LEU:HD23	1:C:257:ARG:NH1	2.23	0.52
1:B:2552:ASP:OD1	1:B:2552:ASP:N	2.43	0.52
1:C:588:GLU:HB3	1:C:593:LEU:HD11	1.91	0.52
1:D:1093:PRO:HB3	1:D:1277:HIS:HE1	1.75	0.52
1:D:1622:PRO:HD3	1:D:1685:LEU:HD21	1.92	0.52
1:D:588:GLU:HB3	1:D:593:LEU:HD11	1.91	0.52
1:E:1110:VAL:HG13	1:E:1172:VAL:HG11	1.92	0.52
1:E:1287:VAL:O	1:E:1291:LYS:HG3	2.10	0.52
1:F:2715:PRO:HB2	1:A:2737:VAL:HG21	1.92	0.52
1:A:1164:THR:HA	1:A:1204:THR:O	2.10	0.52
1:A:2631:PRO:HG3	1:A:2649:LEU:HD13	1.90	0.52
1:A:577:GLU:OE2	2:A:4000:FMN:O3'	2.28	0.52
1:B:1119:THR:O	1:B:1123:PHE:HB2	2.10	0.52
1:B:961:ARG:NH2	1:B:1196:GLY:O	2.42	0.52
1:B:1287:VAL:O	1:B:1291:LYS:HG3	2.10	0.52
1:B:208:VAL:HG12	1:B:248:ILE:HG12	1.92	0.52
1:B:2089:PHE:HA	1:B:2188:ARG:HH11	1.74	0.52
1:B:206:PRO:HG2	1:B:294:VAL:HA	1.92	0.52
1:B:400:TRP:CZ3	1:B:636:PRO:HB2	2.45	0.52
1:B:588:GLU:HB3	1:B:593:LEU:HD11	1.91	0.52
1:C:1174:VAL:HB	1:C:1188:LEU:HB3	1.91	0.52
1:C:411:PRO:HD2	1:C:1025:VAL:HG11	1.91	0.52
1:D:2215:THR:HG22	1:D:2216:GLU:HG3	1.91	0.52
1:E:1225:ARG:CG	1:E:1283:ASP:OD1	2.57	0.52
1:E:1538:ARG:NH1	1:E:1722:PRO:HB3	2.18	0.52
1:E:930:PRO:CG	1:E:930:PRO:O	2.57	0.52
1:F:2698:GLY:HA3	1:F:2705:LYS:HG3	1.92	0.52
1:F:206:PRO:HG2	1:F:294:VAL:HA	1.92	0.52
1:F:33:ALA:O	1:F:37:ARG:N	2.35	0.52
1:F:400:TRP:CZ3	1:F:636:PRO:HB2	2.45	0.52
1:A:1622:PRO:HD3	1:A:1685:LEU:HD21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2215:THR:HG22	1:B:2216:GLU:HG3	1.91	0.52
1:C:1622:PRO:HD3	1:C:1685:LEU:HD21	1.92	0.52
1:D:1110:VAL:HG13	1:D:1172:VAL:HG11	1.92	0.52
1:D:931:VAL:HG13	1:D:933:VAL:HG13	1.92	0.52
1:E:961:ARG:NH2	1:E:1196:GLY:O	2.42	0.52
1:F:1394:HIS:CE1	1:C:2324:LYS:CE	2.93	0.52
1:F:2180:LYS:HZ1	1:F:2962:ASP:HB3	1.75	0.52
1:F:411:PRO:HD2	1:F:1025:VAL:HG11	1.91	0.52
1:F:588:GLU:HB3	1:F:593:LEU:HD11	1.91	0.52
1:A:1530:LEU:HD21	1:A:1554:LEU:HD22	1.91	0.52
1:A:420:LYS:HB3	1:A:641:ASP:OD2	2.10	0.52
1:B:1110:VAL:HG13	1:B:1172:VAL:HG11	1.92	0.52
1:E:2715:PRO:HB2	1:B:2737:VAL:HG21	1.92	0.52
1:B:542:VAL:HG11	1:B:964:VAL:HB	1.92	0.52
1:B:405:PRO:HG3	1:B:625:LEU:HG	1.92	0.52
1:C:106:ALA:O	1:C:112:PRO:HD2	2.10	0.52
1:D:3000:GLY:HA3	1:C:2720:ALA:HB1	1.92	0.52
1:C:961:ARG:NH2	1:C:1196:GLY:O	2.42	0.52
1:D:2089:PHE:HA	1:D:2188:ARG:HH11	1.74	0.52
1:E:931:VAL:HG13	1:E:933:VAL:HG13	1.92	0.52
1:F:1323:GLU:N	1:F:1343:LEU:O	2.41	0.52
1:F:1622:PRO:HD3	1:F:1685:LEU:HD21	1.92	0.52
1:F:336:TRP:CE2	1:F:360:LEU:HD11	2.46	0.52
1:A:1287:VAL:O	1:A:1291:LYS:HG3	2.10	0.51
1:A:2554:ALA:HB1	1:A:2614:LYS:HZ2	1.73	0.51
1:A:2790:MET:HG2	1:A:2809:LEU:HD11	1.93	0.51
1:A:508:GLN:HA	1:A:540:ASN:HB3	1.92	0.51
1:B:1425:VAL:HG13	1:B:1474:LEU:HD13	1.91	0.51
1:B:2087:GLN:HA	1:B:2090:GLU:CG	2.39	0.51
1:B:792:ALA:HA	1:B:799:PHE:CE2	2.43	0.51
1:C:1598:GLU:HG2	1:C:1666:ILE:HD13	1.93	0.51
1:D:2720:ALA:HB1	1:C:3000:GLY:HA3	1.92	0.51
1:D:1598:GLU:HG2	1:D:1666:ILE:HD13	1.93	0.51
1:E:3074:LEU:HB2	1:B:2861:LEU:HD13	1.92	0.51
1:F:1634:ARG:HH11	1:F:1639:ALA:N	2.08	0.51
1:F:2089:PHE:HA	1:F:2188:ARG:HH11	1.74	0.51
1:A:1695:LEU:HD23	1:B:257:ARG:NH1	2.23	0.51
1:F:3000:GLY:HA3	1:A:2720:ALA:HB1	1.92	0.51
1:F:3074:LEU:HB2	1:A:2861:LEU:HD13	1.92	0.51
1:B:1164:THR:HA	1:B:1204:THR:O	2.10	0.51
1:B:2236:LEU:HD23	1:B:2288:HIS:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:208:VAL:HB	1:C:255:LEU:HD13	1.92	0.51
1:C:577:GLU:OE2	2:C:4000:FMN:O3'	2.28	0.51
1:C:420:LYS:HB3	1:C:641:ASP:OD2	2.10	0.51
1:D:1174:VAL:HB	1:D:1188:LEU:HB3	1.91	0.51
1:E:70:SER:HG	1:E:142:ARG:HH22	1.54	0.51
1:E:1733:ASN:HD22	1:E:1736:ARG:HD2	1.74	0.51
1:E:2401:ILE:HG23	1:E:2403:ILE:H	1.75	0.51
1:F:1226:ARG:HB3	1:F:1282:THR:HG21	1.90	0.51
1:F:2215:THR:HG22	1:F:2216:GLU:HG3	1.91	0.51
1:A:2401:ILE:HG23	1:A:2403:ILE:H	1.75	0.51
1:A:206:PRO:HG2	1:A:294:VAL:HA	1.92	0.51
1:B:208:VAL:HB	1:B:255:LEU:HD13	1.92	0.51
1:B:420:LYS:HB3	1:B:641:ASP:OD2	2.10	0.51
1:C:1287:VAL:O	1:C:1291:LYS:HG3	2.10	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:1119:THR:O	1:D:1123:PHE:HB2	2.10	0.51
1:D:746:TYR:HA	1:D:749:TRP:HD1	1.76	0.51
1:E:1530:LEU:HD21	1:E:1554:LEU:HD22	1.91	0.51
1:E:2236:LEU:HD23	1:E:2288:HIS:HB2	1.92	0.51
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:F:1093:PRO:HB3	1:F:1277:HIS:HE1	1.75	0.51
1:F:420:LYS:HB3	1:F:641:ASP:OD2	2.10	0.51
1:F:577:GLU:OE2	2:F:4000:FMN:O3'	2.28	0.51
1:A:1317:GLY:H	1:A:1324:VAL:HG12	1.76	0.51
1:A:2690:THR:O	1:A:2693:GLN:HG2	2.11	0.51
1:F:2861:LEU:HD13	1:A:3074:LEU:HB2	1.92	0.51
1:A:931:VAL:HG13	1:A:933:VAL:HG13	1.91	0.51
1:A:961:ARG:NH2	1:A:1196:GLY:O	2.42	0.51
1:B:106:ALA:O	1:B:112:PRO:HD2	2.10	0.51
1:E:2583:PHE:HD1	1:B:2614:LYS:HZ1	1.53	0.51
1:B:336:TRP:CE2	1:B:360:LEU:HD11	2.45	0.51
1:C:2552:ASP:N	1:C:2552:ASP:OD1	2.43	0.51
1:D:2846:ALA:N	1:C:2731:GLY:O	2.44	0.51
1:D:1287:VAL:O	1:D:1291:LYS:HG3	2.10	0.51
1:E:2808:ARG:HB2	1:E:2895:SER:O	2.10	0.51
1:E:508:GLN:HA	1:E:540:ASN:HB3	1.92	0.51
1:E:792:ALA:HA	1:E:799:PHE:CE2	2.43	0.51
1:F:2740:CYS:HB2	1:F:2998:GLY:HA2	1.92	0.51
1:A:1119:THR:O	1:A:1123:PHE:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:106:ALA:O	1:A:112:PRO:HD2	2.10	0.51
1:A:1488:VAL:HG12	1:A:1490:ARG:HH11	1.73	0.51
1:B:1093:PRO:HB3	1:B:1277:HIS:HE1	1.74	0.51
1:E:2731:GLY:O	1:B:2846:ALA:N	2.44	0.51
1:E:1164:THR:HA	1:E:1204:THR:O	2.10	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:272:GLU:HB3	1:E:280:GLY:O	2.11	0.51
1:E:420:LYS:HB3	1:E:641:ASP:OD2	2.10	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:1287:VAL:O	1:F:1291:LYS:HG3	2.10	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:B:71:GLU:HG2	1:B:142:ARG:NH2	2.24	0.51
1:C:1093:PRO:HB3	1:C:1277:HIS:HE1	1.75	0.51
1:C:2698:GLY:HA3	1:C:2705:LYS:HG3	1.92	0.51
1:C:42:GLU:H	1:C:42:GLU:CD	2.14	0.51
1:C:746:TYR:HA	1:C:749:TRP:HD1	1.76	0.51
1:D:1317:GLY:H	1:D:1324:VAL:HG12	1.76	0.51
1:D:577:GLU:OE2	2:D:4000:FMN:O3'	2.28	0.51
1:D:542:VAL:HG11	1:D:964:VAL:HB	1.92	0.51
1:E:1488:VAL:HG12	1:E:1490:ARG:HH11	1.73	0.51
1:E:1622:PRO:HD3	1:E:1685:LEU:HD21	1.92	0.51
1:E:2720:ALA:HB1	1:B:3000:GLY:HA3	1.92	0.51
1:E:577:GLU:OE2	2:E:4000:FMN:O3'	2.28	0.51
1:F:272:GLU:HB3	1:F:280:GLY:O	2.11	0.51
1:F:3080:ARG:NH1	1:F:3080:ARG:HG3	2.09	0.51
1:A:336:TRP:CE2	1:A:360:LEU:HD11	2.46	0.51
1:B:2740:CYS:HB2	1:B:2998:GLY:HA2	1.91	0.51
1:B:577:GLU:OE2	2:B:4000:FMN:O3'	2.28	0.51
1:C:1110:VAL:HG13	1:C:1172:VAL:HG11	1.92	0.51
1:C:1164:THR:HA	1:C:1204:THR:O	2.10	0.51
1:C:2690:THR:O	1:C:2693:GLN:HG2	2.11	0.51
1:C:2740:CYS:HB2	1:C:2998:GLY:HA2	1.91	0.51
1:C:780:ARG:HD2	1:C:816:LEU:HB3	1.93	0.51
1:C:542:VAL:HG11	1:C:964:VAL:HB	1.92	0.51
1:D:1010:LEU:O	1:D:1017:ILE:N	2.29	0.51
1:E:780:ARG:HD2	1:E:816:LEU:HB3	1.93	0.51
1:F:1530:LEU:HD21	1:F:1554:LEU:HD22	1.91	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:F:2731:GLY:O	1:A:2846:ALA:N	2.44	0.51
1:B:1634:ARG:HD2	1:B:1638:PRO:HA	1.91	0.51
1:B:931:VAL:HG13	1:B:933:VAL:HG23	1.92	0.51
1:C:2401:ILE:HG23	1:C:2403:ILE:H	1.76	0.51
1:C:405:PRO:HG3	1:C:625:LEU:HG	1.93	0.51
1:C:792:ALA:HA	1:C:799:PHE:CE2	2.43	0.51
1:D:2861:LEU:HD13	1:C:3074:LEU:HB2	1.92	0.51
1:D:508:GLN:HA	1:D:540:ASN:HB3	1.92	0.51
1:F:1425:VAL:HG13	1:F:1474:LEU:HD13	1.91	0.51
1:F:208:VAL:HB	1:F:255:LEU:HD13	1.92	0.51
1:F:2808:ARG:HB2	1:F:2895:SER:O	2.10	0.51
1:F:542:VAL:HG11	1:F:964:VAL:HB	1.92	0.51
1:F:405:PRO:HG3	1:F:625:LEU:HG	1.92	0.51
1:A:2417:SER:O	1:A:2421:ASP:N	2.40	0.51
1:A:2667:THR:HG21	1:A:3058:ARG:HH11	1.76	0.51
1:A:2808:ARG:HB2	1:A:2895:SER:O	2.10	0.51
1:E:2737:VAL:HG21	1:B:2715:PRO:HB2	1.91	0.51
1:B:42:GLU:H	1:B:42:GLU:CD	2.14	0.51
1:D:2401:ILE:HG23	1:D:2403:ILE:H	1.76	0.51
1:D:2698:GLY:HA3	1:D:2705:LYS:HG3	1.92	0.51
1:D:780:ARG:HD2	1:D:816:LEU:HB3	1.93	0.51
1:F:1164:THR:HA	1:F:1204:THR:O	2.10	0.51
1:A:2418:GLY:O	1:A:2422:GLU:N	2.40	0.51
1:A:42:GLU:H	1:A:42:GLU:CD	2.14	0.51
1:B:1598:GLU:HG2	1:B:1666:ILE:HD13	1.93	0.51
1:B:2140:VAL:HG22	1:B:2165:ILE:HD12	1.93	0.51
1:B:2667:THR:HG21	1:B:3058:ARG:HH11	1.76	0.51
1:B:2754:ILE:HA	1:B:2759:ALA:O	2.11	0.51
1:C:1119:THR:O	1:C:1123:PHE:HB2	2.10	0.51
1:D:2361:VAL:HG11	1:D:2398:LEU:HD23	1.93	0.51
1:D:2808:ARG:HB2	1:D:2895:SER:O	2.10	0.51
1:E:2554:ALA:HB1	1:E:2614:LYS:HZ2	1.75	0.51
1:F:1317:GLY:H	1:F:1324:VAL:HG12	1.76	0.51
1:F:1488:VAL:HG12	1:F:1490:ARG:HH11	1.73	0.51
1:F:3080:ARG:NH1	1:F:3080:ARG:CG	2.72	0.51
1:A:1986:LEU:HA	1:A:1989:PHE:HD2	1.77	0.50
1:A:2552:ASP:OD1	1:A:2552:ASP:N	2.43	0.50
1:B:2790:MET:HG2	1:B:2809:LEU:HD11	1.93	0.50
1:B:2829:LEU:HD21	1:B:3014:PHE:HE2	1.76	0.50
1:C:1317:GLY:H	1:C:1324:VAL:HG12	1.76	0.50
1:D:420:LYS:HB3	1:D:641:ASP:OD2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1317:GLY:H	1:E:1324:VAL:HG12	1.76	0.50
1:E:3000:GLY:HA3	1:B:2720:ALA:HB1	1.92	0.50
1:E:336:TRP:CE2	1:E:360:LEU:HD11	2.45	0.50
1:F:2236:LEU:HD23	1:F:2288:HIS:HB2	1.92	0.50
1:F:2401:ILE:HG23	1:F:2403:ILE:H	1.76	0.50
1:F:2846:ALA:N	1:A:2731:GLY:O	2.44	0.50
1:A:2140:VAL:HG22	1:A:2165:ILE:HD12	1.93	0.50
1:A:2698:GLY:HA3	1:A:2705:LYS:HG3	1.92	0.50
1:F:2753:LYS:HZ2	1:A:2748:GLU:HG2	1.77	0.50
1:B:1331:ILE:HG13	1:B:1336:VAL:HG21	1.94	0.50
1:B:1634:ARG:HH11	1:B:1639:ALA:N	2.08	0.50
1:B:1590:VAL:HG11	1:B:1671:TRP:CD2	2.47	0.50
1:B:272:GLU:HB3	1:B:280:GLY:O	2.11	0.50
1:C:1986:LEU:HA	1:C:1989:PHE:HD2	1.77	0.50
1:C:2790:MET:HG2	1:C:2809:LEU:HD11	1.93	0.50
1:C:336:TRP:CE2	1:C:360:LEU:HD11	2.45	0.50
1:D:1164:THR:HA	1:D:1204:THR:O	2.10	0.50
1:D:1986:LEU:HA	1:D:1989:PHE:HD2	1.76	0.50
1:D:2245:VAL:HG13	1:D:2255:ARG:CZ	2.41	0.50
1:D:2754:ILE:HA	1:D:2759:ALA:O	2.11	0.50
1:D:930:PRO:CG	1:D:930:PRO:O	2.57	0.50
1:E:2056:PHE:CZ	1:E:2180:LYS:HE2	2.47	0.50
1:E:2662:SER:HB2	1:E:2833:LEU:HD22	1.93	0.50
1:E:2667:THR:HG21	1:E:3058:ARG:HH11	1.76	0.50
1:E:2861:LEU:HD13	1:B:3074:LEU:HB2	1.92	0.50
1:F:1037:ASP:OD1	1:F:1043:ARG:HG3	2.06	0.50
1:F:106:ALA:O	1:F:112:PRO:HD2	2.10	0.50
1:F:42:GLU:H	1:F:42:GLU:CD	2.14	0.50
1:F:746:TYR:HA	1:F:749:TRP:HD1	1.76	0.50
1:A:1087:PHE:HB3	1:B:117:LYS:HZ3	1.77	0.50
1:A:1598:GLU:HG2	1:A:1666:ILE:HD13	1.93	0.50
1:A:780:ARG:HD2	1:A:816:LEU:HB3	1.93	0.50
1:B:1380:ALA:HB1	1:B:1474:LEU:HD12	1.93	0.50
1:B:1622:PRO:HD3	1:B:1685:LEU:HD21	1.92	0.50
1:B:656:THR:HG1	1:B:880:HIS:CE1	2.29	0.50
1:C:208:VAL:HG12	1:C:248:ILE:HG12	1.91	0.50
1:D:1733:ASN:HD22	1:D:1736:ARG:HD2	1.74	0.50
1:D:2236:LEU:HD23	1:D:2288:HIS:HB2	1.92	0.50
1:E:1986:LEU:HA	1:E:1989:PHE:HD2	1.76	0.50
1:E:2614:LYS:HZ1	1:B:2583:PHE:HD1	1.51	0.50
1:E:2698:GLY:HA3	1:E:2705:LYS:HG3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1037:ASP:HA	1:F:1038:ALA:HB3	1.93	0.50
1:F:2245:VAL:HG13	1:F:2255:ARG:CZ	2.42	0.50
1:F:2653:VAL:HA	1:F:3051:MET:HE3	1.91	0.50
1:F:2720:ALA:HB1	1:A:3000:GLY:HA3	1.92	0.50
1:F:2754:ILE:HA	1:F:2759:ALA:O	2.11	0.50
1:F:959:ALA:HB1	1:F:1127:GLU:H	1.72	0.50
1:B:1012:GLY:C	1:B:1013:THR:HG22	2.32	0.50
1:B:2401:ILE:HG23	1:B:2403:ILE:H	1.76	0.50
1:B:2662:SER:HB2	1:B:2833:LEU:HD22	1.94	0.50
1:C:2361:VAL:HG11	1:C:2398:LEU:HD23	1.93	0.50
1:C:2754:ILE:HA	1:C:2759:ALA:O	2.11	0.50
1:C:508:GLN:HA	1:C:540:ASN:HB3	1.92	0.50
1:E:1634:ARG:HH11	1:E:1639:ALA:N	2.08	0.50
1:E:2140:VAL:HG22	1:E:2165:ILE:HD12	1.94	0.50
1:F:2662:SER:HB2	1:F:2833:LEU:HD22	1.93	0.50
1:F:2667:THR:HG21	1:F:3058:ARG:HH11	1.76	0.50
1:F:2790:MET:HG2	1:F:2809:LEU:HD11	1.93	0.50
1:F:508:GLN:HA	1:F:540:ASN:HB3	1.93	0.50
1:F:2748:GLU:HG2	1:A:2753:LYS:HZ2	1.74	0.50
1:B:2261:LYS:HA	1:B:2265:TRP:HB2	1.93	0.50
1:A:257:ARG:NH1	1:C:1695:LEU:HD23	2.23	0.50
1:C:272:GLU:HB3	1:C:280:GLY:O	2.11	0.50
1:C:2180:LYS:HZ1	1:C:2962:ASP:HB3	1.76	0.50
1:D:1695:LEU:HD23	1:E:257:ARG:NH1	2.23	0.50
1:D:2690:THR:O	1:D:2693:GLN:HG2	2.11	0.50
1:D:2829:LEU:HD21	1:D:3014:PHE:HE2	1.77	0.50
1:E:1207:VAL:HG23	1:E:1207:VAL:O	2.12	0.50
1:E:1598:GLU:HG2	1:E:1666:ILE:HD13	1.93	0.50
1:F:2140:VAL:HG22	1:F:2165:ILE:HD12	1.94	0.50
1:A:1380:ALA:HB1	1:A:1474:LEU:HD12	1.94	0.50
1:A:2180:LYS:HZ1	1:A:2962:ASP:HB3	1.76	0.50
1:A:272:GLU:HB3	1:A:280:GLY:O	2.11	0.50
1:A:2754:ILE:HA	1:A:2759:ALA:O	2.11	0.50
1:B:2245:VAL:HG13	1:B:2255:ARG:CZ	2.41	0.50
1:B:2690:THR:O	1:B:2693:GLN:HG2	2.11	0.50
1:C:1012:GLY:C	1:C:1013:THR:HG22	2.32	0.50
1:D:2731:GLY:O	1:C:2846:ALA:N	2.44	0.50
1:D:2552:ASP:N	1:D:2552:ASP:OD1	2.43	0.50
1:E:1380:ALA:HB1	1:E:1474:LEU:HD12	1.94	0.50
1:F:1598:GLU:HG2	1:F:1666:ILE:HD13	1.93	0.50
1:F:930:PRO:O	1:F:930:PRO:CG	2.57	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1331:ILE:HG13	1:A:1336:VAL:HG21	1.94	0.50
1:A:2557:LEU:HD22	1:A:2613:ARG:HB2	1.94	0.50
1:B:1317:GLY:H	1:B:1324:VAL:HG12	1.76	0.50
1:B:780:ARG:HD2	1:B:816:LEU:HB3	1.93	0.50
1:B:930:PRO:O	1:B:930:PRO:CG	2.57	0.50
1:B:940:ARG:O	1:B:940:ARG:CG	2.60	0.50
1:C:1380:ALA:HB1	1:C:1474:LEU:HD12	1.94	0.50
1:C:1590:VAL:HG11	1:C:1671:TRP:CD2	2.47	0.50
1:C:2140:VAL:HG22	1:C:2165:ILE:HD12	1.93	0.50
1:D:2554:ALA:HB2	1:C:2582:GLN:HB3	1.94	0.50
1:C:2662:SER:HB2	1:C:2833:LEU:HD22	1.93	0.50
1:C:3080:ARG:HG3	1:C:3080:ARG:NH1	2.09	0.50
1:D:1010:LEU:CG	1:D:1017:ILE:HB	2.42	0.50
1:D:1590:VAL:HG11	1:D:1671:TRP:CD2	2.47	0.50
1:E:1012:GLY:C	1:E:1013:THR:HG22	2.32	0.50
1:E:176:VAL:O	1:E:180:ALA:N	2.36	0.50
1:E:206:PRO:HG2	1:E:294:VAL:HA	1.93	0.50
1:F:1380:ALA:HB1	1:F:1474:LEU:HD12	1.93	0.50
1:F:207:MET:HA	1:F:249:THR:HG22	1.94	0.50
1:F:780:ARG:HD2	1:F:816:LEU:HB3	1.93	0.50
1:A:2236:LEU:HD23	1:A:2288:HIS:HB2	1.92	0.50
1:A:2361:VAL:HG11	1:A:2398:LEU:HD23	1.93	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:E:2261:LYS:HA	1:E:2265:TRP:HB2	1.94	0.50
1:E:2582:GLN:HB3	1:B:2554:ALA:HB2	1.94	0.50
1:F:133:GLN:HG2	1:F:355:GLY:HA2	1.94	0.50
1:A:1010:LEU:CG	1:A:1017:ILE:HB	2.42	0.50
1:A:1711:VAL:HA	1:A:1714:LEU:HG	1.94	0.50
1:B:1010:LEU:CG	1:B:1017:ILE:HB	2.42	0.50
1:B:1207:VAL:O	1:B:1207:VAL:HG13	2.12	0.50
1:B:1580:PRO:O	1:B:1583:SER:OG	2.22	0.50
1:B:1711:VAL:HA	1:B:1714:LEU:HG	1.94	0.50
1:B:2334:HIS:HB3	1:B:2391:LYS:HA	1.94	0.50
1:C:207:MET:HA	1:C:249:THR:HG22	1.94	0.50
1:C:2274:LEU:HD23	1:C:2277:ILE:HD12	1.94	0.50
1:D:2582:GLN:HB3	1:C:2554:ALA:HB2	1.94	0.50
1:C:931:VAL:HG13	1:C:933:VAL:HG23	1.92	0.50
1:D:1207:VAL:O	1:D:1207:VAL:HG13	2.12	0.50
1:D:1331:ILE:HG13	1:D:1336:VAL:HG21	1.94	0.50
1:E:2811:PHE:HB3	1:E:2894:THR:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1119:THR:HA	1:F:1123:PHE:CD1	2.47	0.50
1:F:2554:ALA:HB2	1:A:2582:GLN:HB3	1.94	0.50
1:B:2361:VAL:HG11	1:B:2398:LEU:HD23	1.93	0.49
1:B:133:GLN:HG2	1:B:355:GLY:HA2	1.94	0.49
1:C:1207:VAL:O	1:C:1207:VAL:HG23	2.12	0.49
1:C:206:PRO:HG2	1:C:294:VAL:HA	1.92	0.49
1:C:2245:VAL:HG13	1:C:2255:ARG:CZ	2.41	0.49
1:D:3074:LEU:HB2	1:C:2861:LEU:HD13	1.92	0.49
1:C:2811:PHE:HB3	1:C:2894:THR:HG22	1.94	0.49
1:C:2667:THR:HG21	1:C:3058:ARG:HH11	1.76	0.49
1:D:1133:VAL:O	1:D:1193:ALA:N	2.42	0.49
1:D:1380:ALA:HB1	1:D:1474:LEU:HD12	1.94	0.49
1:D:2667:THR:HG21	1:D:3058:ARG:HH11	1.76	0.49
1:E:1331:ILE:HG13	1:E:1336:VAL:HG21	1.94	0.49
1:E:1711:VAL:HA	1:E:1714:LEU:HG	1.94	0.49
1:E:405:PRO:HG3	1:E:625:LEU:HG	1.92	0.49
1:F:1385:ARG:HD2	1:F:2407:GLU:OE2	2.11	0.49
1:F:2334:HIS:HB3	1:F:2391:LYS:HA	1.94	0.49
1:A:2245:VAL:HG13	1:A:2255:ARG:CZ	2.42	0.49
1:A:2334:HIS:HB3	1:A:2391:LYS:HA	1.94	0.49
1:F:2583:PHE:HD1	1:A:2614:LYS:HZ1	1.51	0.49
1:B:207:MET:HA	1:B:249:THR:HG22	1.94	0.49
1:B:508:GLN:HA	1:B:540:ASN:HB3	1.92	0.49
1:B:746:TYR:HA	1:B:749:TRP:HD1	1.76	0.49
1:C:2137:GLU:O	1:C:2163:THR:N	2.30	0.49
1:D:2056:PHE:CZ	1:D:2180:LYS:HE2	2.47	0.49
1:D:2662:SER:HB2	1:D:2833:LEU:HD22	1.93	0.49
1:D:405:PRO:HG3	1:D:625:LEU:HG	1.92	0.49
1:F:1010:LEU:CG	1:F:1017:ILE:HB	2.42	0.49
1:F:1042:MET:C	1:F:1044:ALA:N	2.62	0.49
1:F:1590:VAL:HG11	1:F:1671:TRP:CD2	2.47	0.49
1:F:2056:PHE:CZ	1:F:2180:LYS:HE2	2.46	0.49
1:F:2361:VAL:HG11	1:F:2398:LEU:HD23	1.93	0.49
1:F:2962:ASP:N	1:F:2962:ASP:OD1	2.34	0.49
1:A:405:PRO:HG3	1:A:625:LEU:HG	1.93	0.49
1:B:1119:THR:HA	1:B:1123:PHE:CD1	2.47	0.49
1:B:1986:LEU:HA	1:B:1989:PHE:HD2	1.76	0.49
1:C:1331:ILE:HG13	1:C:1336:VAL:HG21	1.94	0.49
1:C:930:PRO:O	1:C:930:PRO:CG	2.57	0.49
1:D:1178:ASN:HB2	1:D:1185:LEU:HD11	1.94	0.49
1:E:1119:THR:HA	1:E:1123:PHE:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2118:LEU:O	1:E:2122:ILE:CG1	2.60	0.49
1:E:2557:LEU:HD22	1:E:2613:ARG:HB2	1.94	0.49
1:E:42:GLU:H	1:E:42:GLU:CD	2.14	0.49
1:F:1207:VAL:HG13	1:F:1207:VAL:O	2.12	0.49
1:F:2829:LEU:HD21	1:F:3014:PHE:HE2	1.76	0.49
1:A:1207:VAL:O	1:A:1207:VAL:HG23	2.12	0.49
1:A:1590:VAL:HG11	1:A:1671:TRP:CD2	2.47	0.49
1:B:1291:LYS:HA	1:B:1344:ALA:HB3	1.95	0.49
1:B:2118:LEU:O	1:B:2122:ILE:CG1	2.60	0.49
1:B:2503:LYS:HE3	1:B:2505:GLU:OE2	2.13	0.49
1:E:2846:ALA:N	1:B:2731:GLY:O	2.44	0.49
1:C:1010:LEU:CG	1:C:1017:ILE:HB	2.42	0.49
1:C:1119:THR:HA	1:C:1123:PHE:CD1	2.48	0.49
1:D:2811:PHE:HB3	1:D:2894:THR:HG22	1.94	0.49
1:E:1580:PRO:O	1:E:1583:SER:OG	2.22	0.49
1:E:1590:VAL:HG11	1:E:1671:TRP:CD2	2.47	0.49
1:F:1035:VAL:HG12	1:F:1042:MET:HG2	1.94	0.49
1:F:1362:MET:HG3	1:F:1430:VAL:HG21	1.95	0.49
1:F:1986:LEU:HA	1:F:1989:PHE:HD2	1.76	0.49
1:A:133:GLN:HG2	1:A:355:GLY:HA2	1.94	0.49
1:A:2662:SER:HB2	1:A:2833:LEU:HD22	1.94	0.49
1:B:1178:ASN:HB2	1:B:1185:LEU:HD11	1.94	0.49
1:B:1212:ALA:O	1:B:1342:ARG:NH2	2.45	0.49
1:B:144:GLY:O	1:B:148:THR:N	2.34	0.49
1:C:1362:MET:HG3	1:C:1430:VAL:HG21	1.95	0.49
1:C:2291:LEU:HD21	1:C:2332:LEU:HD22	1.95	0.49
1:C:2829:LEU:HD21	1:C:3014:PHE:HE2	1.76	0.49
1:D:1119:THR:HA	1:D:1123:PHE:CD1	2.47	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:2274:LEU:HD23	1:D:2277:ILE:HD12	1.94	0.49
1:D:2291:LEU:HD21	1:D:2332:LEU:HD22	1.95	0.49
1:D:940:ARG:O	1:D:940:ARG:CG	2.60	0.49
1:F:961:ARG:NE	1:F:1196:GLY:CA	2.75	0.49
1:F:2261:LYS:HA	1:F:2265:TRP:HB2	1.93	0.49
1:A:1362:MET:HG3	1:A:1430:VAL:HG21	1.95	0.49
1:A:1634:ARG:HH11	1:A:1639:ALA:N	2.08	0.49
1:C:1637:VAL:HG21	1:C:1671:TRP:CD2	2.48	0.49
1:C:176:VAL:O	1:C:180:ALA:N	2.36	0.49
1:C:2056:PHE:CZ	1:C:2180:LYS:HE2	2.47	0.49
1:D:2261:LYS:HA	1:D:2265:TRP:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2790:MET:HG2	1:D:2809:LEU:HD11	1.93	0.49
1:E:1010:LEU:CG	1:E:1017:ILE:HB	2.42	0.49
1:E:2334:HIS:HB3	1:E:2391:LYS:HA	1.94	0.49
1:F:2274:LEU:HD23	1:F:2277:ILE:HD12	1.94	0.49
1:F:2503:LYS:HE3	1:F:2505:GLU:OE2	2.13	0.49
1:A:1119:THR:HA	1:A:1123:PHE:CD1	2.47	0.49
1:A:790:ALA:HB3	1:A:826:LEU:HD21	1.95	0.49
1:C:2118:LEU:O	1:C:2122:ILE:CG1	2.61	0.49
1:C:2820:ILE:HD12	1:C:2822:LEU:HD21	1.95	0.49
1:C:505:ARG:HA	1:C:508:GLN:HB2	1.94	0.49
1:D:1711:VAL:HA	1:D:1714:LEU:HG	1.94	0.49
1:D:3080:ARG:NH1	1:D:3080:ARG:HG3	2.09	0.49
1:D:505:ARG:HA	1:D:508:GLN:HB2	1.94	0.49
1:E:1212:ALA:O	1:E:1342:ARG:NH2	2.45	0.49
1:E:2503:LYS:HE3	1:E:2505:GLU:OE2	2.13	0.49
1:F:1533:VAL:HG13	1:F:1582:HIS:HB2	1.95	0.49
1:F:2820:ILE:HD12	1:F:2822:LEU:HD21	1.95	0.49
1:A:2261:LYS:HA	1:A:2265:TRP:HB2	1.94	0.49
1:A:940:ARG:O	1:A:940:ARG:CG	2.60	0.49
1:B:2820:ILE:HD12	1:B:2822:LEU:HD21	1.95	0.49
1:C:1533:VAL:HG13	1:C:1582:HIS:HB2	1.95	0.49
1:C:2417:SER:O	1:C:2421:ASP:N	2.40	0.49
1:D:745:THR:OG1	1:D:834:GLU:O	2.19	0.49
1:E:133:GLN:HG2	1:E:355:GLY:HA2	1.94	0.49
1:E:2623:ALA:HB2	1:E:2812:LEU:HD21	1.94	0.49
1:E:184:LEU:HB3	1:E:311:TRP:HE3	1.78	0.49
1:F:1637:VAL:HG21	1:F:1671:TRP:CD2	2.48	0.49
1:F:2811:PHE:HB3	1:F:2894:THR:HG22	1.94	0.49
1:B:2623:ALA:HB2	1:B:2812:LEU:HD21	1.94	0.49
1:B:790:ALA:HB3	1:B:826:LEU:HD21	1.95	0.49
1:D:2927:GLN:HE22	1:D:2941:PHE:C	2.17	0.49
1:E:1111:PHE:HE1	1:E:1129:LEU:HD11	1.78	0.49
1:E:2361:VAL:HG11	1:E:2398:LEU:HD23	1.93	0.49
1:E:207:MET:HA	1:E:249:THR:HG22	1.94	0.49
1:F:1331:ILE:HG13	1:F:1336:VAL:HG21	1.94	0.49
1:F:790:ALA:HB3	1:F:826:LEU:HD21	1.95	0.49
1:A:1111:PHE:HE1	1:A:1129:LEU:HD11	1.78	0.49
1:A:2058:ASP:OD1	1:A:2058:ASP:N	2.46	0.49
1:B:1435:VAL:HG22	1:B:1703:ILE:HD12	1.95	0.49
1:B:2811:PHE:HB3	1:B:2894:THR:HG22	1.94	0.49
1:C:1435:VAL:HG22	1:C:1703:ILE:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1711:VAL:HA	1:C:1714:LEU:HG	1.94	0.49
1:C:2623:ALA:HB2	1:C:2812:LEU:HD21	1.94	0.49
1:C:940:ARG:CG	1:C:940:ARG:O	2.60	0.49
1:D:2623:ALA:HB2	1:D:2812:LEU:HD21	1.94	0.49
1:E:2245:VAL:HG13	1:E:2255:ARG:CZ	2.42	0.49
1:F:1035:VAL:HG11	1:F:1042:MET:HG2	1.95	0.49
1:F:1212:ALA:O	1:F:1342:ARG:NH2	2.45	0.49
1:F:2557:LEU:HD22	1:F:2613:ARG:HB2	1.94	0.49
1:F:940:ARG:CG	1:F:940:ARG:O	2.60	0.49
1:A:2118:LEU:O	1:A:2122:ILE:CG1	2.60	0.48
1:A:207:MET:HA	1:A:249:THR:HG22	1.94	0.48
1:A:2848:GLY:H	1:A:3001:HIS:CD2	2.31	0.48
1:B:1637:VAL:HG21	1:B:1671:TRP:CD2	2.48	0.48
1:C:2736:PRO:HG2	1:C:2746:SER:HA	1.96	0.48
1:C:2848:GLY:H	1:C:3001:HIS:CD2	2.31	0.48
1:C:361:THR:HG21	1:C:377:PRO:HG3	1.95	0.48
1:D:2140:VAL:HG22	1:D:2165:ILE:HD12	1.93	0.48
1:D:2503:LYS:HE3	1:D:2505:GLU:OE2	2.13	0.48
1:D:2557:LEU:HD22	1:D:2613:ARG:HB2	1.94	0.48
1:E:144:GLY:O	1:E:148:THR:N	2.34	0.48
1:E:1637:VAL:HG21	1:E:1671:TRP:CD2	2.48	0.48
1:E:2554:ALA:HB1	1:E:2614:LYS:HD2	1.95	0.48
1:F:2926:SER:HB3	1:F:2976:TRP:HH2	1.78	0.48
1:A:1625:LEU:HD11	1:A:1660:LEU:HB3	1.96	0.48
1:A:2137:GLU:O	1:A:2163:THR:N	2.30	0.48
1:A:2503:LYS:HE3	1:A:2505:GLU:OE2	2.13	0.48
1:A:868:ARG:HB3	1:A:872:ARG:NH1	2.28	0.48
1:B:2274:LEU:HD23	1:B:2277:ILE:HD12	1.94	0.48
1:B:2554:ALA:HB1	1:B:2614:LYS:HD2	1.95	0.48
1:B:2848:GLY:H	1:B:3001:HIS:CD2	2.31	0.48
1:C:184:LEU:HB3	1:C:311:TRP:HE3	1.78	0.48
1:C:444:ILE:HD12	1:C:655:ALA:HA	1.95	0.48
1:D:1212:ALA:O	1:D:1342:ARG:NH2	2.45	0.48
1:D:1637:VAL:HG21	1:D:1671:TRP:CD2	2.48	0.48
1:D:2820:ILE:HD12	1:D:2822:LEU:HD21	1.95	0.48
1:D:444:ILE:HD12	1:D:655:ALA:HA	1.95	0.48
1:E:2088:ARG:O	1:E:2188:ARG:NH1	2.47	0.48
1:E:2094:HIS:O	1:E:2098:THR:HG22	2.14	0.48
1:E:2274:LEU:HD23	1:E:2277:ILE:HD12	1.94	0.48
1:F:1036:ASP:C	1:F:1038:ALA:HB3	2.32	0.48
1:F:1651:THR:HB	1:F:1656:LYS:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1711:VAL:HA	1:F:1714:LEU:HG	1.94	0.48
1:F:1996:PRO:O	1:F:2000:LEU:N	2.41	0.48
1:F:2167:THR:HB	1:F:2198:ALA:HB3	1.95	0.48
1:F:2845:PHE:CE1	1:A:2676:SER:HB2	2.49	0.48
1:A:2554:ALA:HB1	1:A:2614:LYS:HD2	1.95	0.48
1:F:2582:GLN:HB3	1:A:2554:ALA:HB2	1.94	0.48
1:A:2829:LEU:HD21	1:A:3014:PHE:HE2	1.77	0.48
1:A:505:ARG:HA	1:A:508:GLN:HB2	1.94	0.48
1:B:1533:VAL:HG13	1:B:1582:HIS:HB2	1.95	0.48
1:B:2056:PHE:CZ	1:B:2180:LYS:HE2	2.47	0.48
1:B:2167:THR:HB	1:B:2198:ALA:HB3	1.95	0.48
1:E:2676:SER:HB2	1:B:2845:PHE:CE1	2.49	0.48
1:C:1212:ALA:O	1:C:1342:ARG:NH2	2.45	0.48
1:C:1625:LEU:HD11	1:C:1660:LEU:HB3	1.96	0.48
1:C:1651:THR:HB	1:C:1656:LYS:HD2	1.95	0.48
1:C:2261:LYS:HA	1:C:2265:TRP:HB2	1.94	0.48
1:C:3065:PRO:O	1:C:3069:GLN:N	2.42	0.48
1:D:2170:ARG:HB2	1:D:2175:ARG:HG3	1.95	0.48
1:D:2736:PRO:HG2	1:D:2746:SER:HA	1.96	0.48
1:D:868:ARG:HB3	1:D:872:ARG:NH1	2.28	0.48
1:E:1362:MET:HG3	1:E:1430:VAL:HG21	1.95	0.48
1:E:2098:THR:O	1:E:2102:TRP:CG	2.67	0.48
1:E:2666:PRO:CB	1:E:2727:VAL:HA	2.44	0.48
1:E:2829:LEU:HD21	1:E:3014:PHE:HE2	1.76	0.48
1:E:790:ALA:HB3	1:E:826:LEU:HD21	1.95	0.48
1:F:1111:PHE:HE1	1:F:1129:LEU:HD11	1.78	0.48
1:F:2118:LEU:O	1:F:2122:ILE:CG1	2.60	0.48
1:F:2623:ALA:HB2	1:F:2812:LEU:HD21	1.94	0.48
1:F:184:LEU:HB3	1:F:311:TRP:HE3	1.78	0.48
1:B:2170:ARG:HB2	1:B:2175:ARG:HG3	1.95	0.48
1:B:2088:ARG:O	1:B:2188:ARG:NH1	2.47	0.48
1:B:444:ILE:HD12	1:B:655:ALA:HA	1.95	0.48
1:B:505:ARG:HA	1:B:508:GLN:HB2	1.94	0.48
1:B:868:ARG:HB3	1:B:872:ARG:NH1	2.28	0.48
1:C:2503:LYS:HE3	1:C:2505:GLU:OE2	2.13	0.48
1:D:2845:PHE:CE1	1:C:2676:SER:HB2	2.49	0.48
1:C:868:ARG:HB3	1:C:872:ARG:NH1	2.28	0.48
1:D:1651:THR:HB	1:D:1656:LYS:HD2	1.95	0.48
1:D:2088:ARG:O	1:D:2188:ARG:NH1	2.47	0.48
1:D:2118:LEU:O	1:D:2122:ILE:CG1	2.60	0.48
1:E:1178:ASN:HB2	1:E:1185:LEU:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1533:VAL:HG13	1:E:1582:HIS:HB2	1.95	0.48
1:E:2592:PRO:HA	1:E:2599:TRP:CD1	2.49	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:E:505:ARG:HA	1:E:508:GLN:HB2	1.94	0.48
1:F:1625:LEU:HD11	1:F:1660:LEU:HB3	1.95	0.48
1:F:2170:ARG:HB2	1:F:2175:ARG:HG3	1.95	0.48
1:F:2554:ALA:HB1	1:F:2614:LYS:HD2	1.95	0.48
1:F:2762:VAL:HG22	1:F:2822:LEU:HB2	1.96	0.48
1:F:444:ILE:HD12	1:F:655:ALA:HA	1.95	0.48
1:F:505:ARG:HA	1:F:508:GLN:HB2	1.94	0.48
1:A:1637:VAL:HG21	1:A:1671:TRP:CD2	2.48	0.48
1:A:2094:HIS:O	1:A:2098:THR:HG22	2.13	0.48
1:D:1625:LEU:HD11	1:D:1660:LEU:HB3	1.96	0.48
1:D:1435:VAL:HG22	1:D:1703:ILE:HD12	1.95	0.48
1:E:1103:VAL:HG21	1:E:1269:MET:SD	2.54	0.48
1:E:1625:LEU:HD11	1:E:1660:LEU:HB3	1.96	0.48
1:E:2291:LEU:HD21	1:E:2332:LEU:HD22	1.95	0.48
1:F:1012:GLY:C	1:F:1013:THR:HG22	2.32	0.48
1:F:1435:VAL:HG22	1:F:1703:ILE:HD12	1.95	0.48
1:F:2666:PRO:CB	1:F:2727:VAL:HA	2.44	0.48
1:A:1178:ASN:HB2	1:A:1185:LEU:HD11	1.94	0.48
1:A:2648:ALA:HA	1:A:2718:VAL:HG13	1.96	0.48
1:A:2926:SER:HB3	1:A:2976:TRP:HH2	1.79	0.48
1:A:2667:THR:HB	1:A:3081:LEU:HD11	1.96	0.48
1:A:184:LEU:HB3	1:A:311:TRP:HE3	1.78	0.48
1:B:1103:VAL:HG21	1:B:1269:MET:SD	2.54	0.48
1:B:2137:GLU:O	1:B:2163:THR:N	2.30	0.48
1:E:2554:ALA:HB2	1:B:2582:GLN:HB3	1.94	0.48
1:C:184:LEU:HD13	1:C:311:TRP:HB3	1.96	0.48
1:C:2170:ARG:HB2	1:C:2175:ARG:HG3	1.95	0.48
1:C:2334:HIS:HB3	1:C:2391:LYS:HA	1.94	0.48
1:D:1012:GLY:C	1:D:1013:THR:HG22	2.32	0.48
1:D:1291:LYS:HA	1:D:1344:ALA:HB3	1.95	0.48
1:D:2645:ASP:OD1	1:D:2647:VAL:HG23	2.14	0.48
1:D:790:ALA:HB3	1:D:826:LEU:HD21	1.95	0.48
1:E:803:GLU:OE1	1:E:2431:THR:CG2	2.62	0.48
1:F:868:ARG:HB3	1:F:872:ARG:NH1	2.28	0.48
1:E:2614:LYS:NZ	1:B:2583:PHE:HB2	2.29	0.48
1:B:2666:PRO:CB	1:B:2727:VAL:HA	2.44	0.48
1:D:2676:SER:HB2	1:C:2845:PHE:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2334:HIS:HB3	1:D:2391:LYS:HA	1.94	0.48
1:D:2583:PHE:HB2	1:C:2614:LYS:NZ	2.29	0.48
1:D:2180:LYS:NZ	1:D:2962:ASP:HB3	2.29	0.48
1:E:1291:LYS:HA	1:E:1344:ALA:HB3	1.95	0.48
1:E:2667:THR:HB	1:E:3081:LEU:HD11	1.96	0.48
1:E:2648:ALA:HA	1:E:2718:VAL:HG13	1.96	0.48
1:E:2848:GLY:H	1:E:3001:HIS:CD2	2.32	0.48
1:E:868:ARG:HB3	1:E:872:ARG:NH1	2.28	0.48
1:F:1178:ASN:HB2	1:F:1185:LEU:HD11	1.94	0.48
1:F:2592:PRO:HA	1:F:2599:TRP:CD1	2.49	0.48
1:F:2848:GLY:H	1:F:3001:HIS:CD2	2.31	0.48
1:A:301:LEU:HD13	1:A:330:LEU:HD22	1.96	0.48
1:A:792:ALA:HA	1:A:799:PHE:CE2	2.43	0.48
1:B:1651:THR:HB	1:B:1656:LYS:HD2	1.95	0.48
1:E:2583:PHE:HB2	1:B:2614:LYS:NZ	2.29	0.48
1:E:2845:PHE:CE1	1:B:2676:SER:HB2	2.49	0.48
1:B:2762:VAL:HG22	1:B:2822:LEU:HB2	1.96	0.48
1:B:305:ILE:HD13	1:B:327:GLU:HG2	1.95	0.48
1:B:936:ARG:O	1:B:941:ARG:N	2.44	0.48
1:C:1178:ASN:HB2	1:C:1185:LEU:HD11	1.94	0.48
1:C:1634:ARG:HH11	1:C:1639:ALA:N	2.08	0.48
1:C:2088:ARG:O	1:C:2188:ARG:NH1	2.47	0.48
1:C:2094:HIS:O	1:C:2098:THR:HG22	2.13	0.48
1:F:1401:THR:CB	1:C:2286:ARG:HH22	2.27	0.48
1:C:2926:SER:HB3	1:C:2976:TRP:HH2	1.79	0.48
1:C:2927:GLN:HE22	1:C:2941:PHE:C	2.17	0.48
1:C:301:LEU:HD13	1:C:330:LEU:HD22	1.96	0.48
1:C:2667:THR:HB	1:C:3081:LEU:HD11	1.95	0.48
1:D:2167:THR:HB	1:D:2198:ALA:HB3	1.96	0.48
1:D:2666:PRO:CB	1:D:2727:VAL:HA	2.44	0.48
1:D:3065:PRO:O	1:D:3069:GLN:N	2.42	0.48
1:E:2762:VAL:HG22	1:E:2822:LEU:HB2	1.96	0.48
1:E:2927:GLN:HE22	1:E:2941:PHE:C	2.17	0.48
1:F:1019:PHE:CE2	1:F:1035:VAL:HG23	2.49	0.48
1:F:2736:PRO:HG2	1:F:2746:SER:HA	1.95	0.48
1:F:305:ILE:HD13	1:F:327:GLU:HG2	1.95	0.48
1:F:501:VAL:HA	1:F:504:LYS:HE2	1.96	0.48
1:A:2088:ARG:O	1:A:2188:ARG:NH1	2.47	0.48
1:A:2274:LEU:HD23	1:A:2277:ILE:HD12	1.94	0.48
1:A:2762:VAL:HG22	1:A:2822:LEU:HB2	1.96	0.48
1:A:2843:GLN:HG2	1:A:2845:PHE:CZ	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:305:ILE:HD13	1:A:327:GLU:HG2	1.95	0.48
1:A:836:VAL:HG12	1:A:837:VAL:N	2.29	0.48
1:B:1508:ILE:HB	1:B:1562:ARG:HD3	1.96	0.48
1:B:2094:HIS:O	1:B:2098:THR:HG22	2.13	0.48
1:B:2249:MET:O	1:B:2250:SER:OG	2.28	0.48
1:B:2926:SER:HB3	1:B:2976:TRP:HH2	1.79	0.48
1:B:501:VAL:HA	1:B:504:LYS:HE2	1.96	0.48
1:C:1103:VAL:HG21	1:C:1269:MET:SD	2.54	0.48
1:C:1133:VAL:O	1:C:1193:ALA:N	2.42	0.48
1:C:1291:LYS:HA	1:C:1344:ALA:HB3	1.95	0.48
1:C:2098:THR:O	1:C:2102:TRP:CG	2.66	0.48
1:C:2557:LEU:HD22	1:C:2613:ARG:HB2	1.94	0.48
1:D:2848:GLY:H	1:D:3001:HIS:CD2	2.31	0.48
1:E:2060:TRP:HZ2	1:E:2966:ASP:HA	1.79	0.48
1:E:2843:GLN:HG2	1:E:2845:PHE:CZ	2.49	0.48
1:E:940:ARG:CG	1:E:940:ARG:O	2.60	0.48
1:F:961:ARG:CZ	1:F:1196:GLY:HA2	2.44	0.48
1:F:1103:VAL:HG21	1:F:1269:MET:SD	2.54	0.48
1:F:2088:ARG:O	1:F:2188:ARG:NH1	2.47	0.48
1:F:808:ALA:HB3	1:F:811:ASP:HB2	1.96	0.48
1:A:1212:ALA:O	1:A:1342:ARG:NH2	2.45	0.48
1:A:2170:ARG:HB2	1:A:2175:ARG:HG3	1.96	0.48
1:A:184:LEU:HD13	1:A:311:TRP:HB3	1.96	0.48
1:A:365:ALA:HB3	1:A:366:PRO:HD3	1.96	0.48
1:A:683:GLY:CA	1:A:700:ASN:HB2	2.44	0.48
1:B:176:VAL:O	1:B:180:ALA:N	2.36	0.48
1:B:2098:THR:O	1:B:2102:TRP:CG	2.67	0.48
1:B:2645:ASP:OD1	1:B:2647:VAL:HG23	2.14	0.48
1:C:2666:PRO:CB	1:C:2727:VAL:HA	2.44	0.48
1:C:832:ASP:O	1:C:836:VAL:HG23	2.14	0.48
1:D:1103:VAL:HG21	1:D:1269:MET:SD	2.54	0.48
1:D:1467:VAL:HA	1:D:1605:LYS:HD2	1.96	0.48
1:E:1996:PRO:O	1:E:2000:LEU:N	2.41	0.48
1:E:656:THR:HG1	1:E:880:HIS:CE1	2.31	0.48
1:F:1276:GLN:HE21	1:F:1292:LEU:HD13	1.79	0.48
1:F:171:LYS:HE3	1:F:173:ALA:HB3	1.96	0.48
1:F:2291:LEU:HD21	1:F:2332:LEU:HD22	1.95	0.48
1:F:361:THR:HG21	1:F:377:PRO:HG3	1.95	0.48
1:B:1111:PHE:HE1	1:B:1129:LEU:HD11	1.78	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	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2418:GLY:O	1:B:2422:GLU:N	2.40	0.47
1:B:2592:PRO:HA	1:B:2599:TRP:CD1	2.49	0.47
1:B:2557:LEU:HD22	1:B:2613:ARG:HB2	1.94	0.47
1:B:641:ASP:OD1	1:B:641:ASP:N	2.47	0.47
1:C:1996:PRO:O	1:C:2000:LEU:N	2.41	0.47
1:C:2167:THR:HB	1:C:2198:ALA:HB3	1.96	0.47
1:C:2418:GLY:O	1:C:2422:GLU:N	2.40	0.47
1:C:2645:ASP:OD1	1:C:2647:VAL:HG23	2.14	0.47
1:D:1111:PHE:HE1	1:D:1129:LEU:HD11	1.78	0.47
1:D:2098:THR:O	1:D:2102:TRP:CG	2.67	0.47
1:D:2843:GLN:HG2	1:D:2845:PHE:CZ	2.49	0.47
1:E:171:LYS:HE3	1:E:173:ALA:HB3	1.96	0.47
1:E:184:LEU:HD13	1:E:311:TRP:HB3	1.96	0.47
1:E:2820:ILE:HD12	1:E:2822:LEU:HD21	1.95	0.47
1:E:674:TRP:CD1	1:E:895:THR:HG21	2.49	0.47
1:F:1038:ALA:HA	1:F:1126:ILE:CA	2.44	0.47
1:F:1467:VAL:HA	1:F:1605:LYS:HD2	1.96	0.47
1:F:2094:HIS:O	1:F:2098:THR:HG22	2.14	0.47
1:F:2180:LYS:NZ	1:F:2962:ASP:HB3	2.29	0.47
1:F:2060:TRP:HZ2	1:F:2966:ASP:HA	1.79	0.47
1:F:745:THR:OG1	1:F:834:GLU:O	2.19	0.47
1:F:832:ASP:O	1:F:836:VAL:HG23	2.14	0.47
1:A:1012:GLY:C	1:A:1013:THR:HG22	2.32	0.47
1:A:1291:LYS:HA	1:A:1344:ALA:HB3	1.94	0.47
1:A:171:LYS:HE3	1:A:173:ALA:HB3	1.96	0.47
1:A:1996:PRO:O	1:A:2000:LEU:N	2.41	0.47
1:A:2098:THR:O	1:A:2102:TRP:CG	2.67	0.47
1:A:2167:THR:HB	1:A:2198:ALA:HB3	1.96	0.47
1:A:2666:PRO:CB	1:A:2727:VAL:HA	2.44	0.47
1:A:2820:ILE:HD12	1:A:2822:LEU:HD21	1.95	0.47
1:A:2927:GLN:HE22	1:A:2941:PHE:C	2.17	0.47
1:A:501:VAL:HA	1:A:504:LYS:HE2	1.96	0.47
1:A:444:ILE:HD12	1:A:655:ALA:HA	1.95	0.47
1:B:2884:ASP:HA	1:B:2916:ARG:NH1	2.30	0.47
1:B:836:VAL:HG12	1:B:837:VAL:N	2.29	0.47
1:C:1467:VAL:HA	1:C:1605:LYS:HD2	1.96	0.47
1:C:171:LYS:HE3	1:C:173:ALA:HB3	1.96	0.47
1:C:2884:ASP:HA	1:C:2916:ARG:NH1	2.29	0.47
1:C:133:GLN:HG2	1:C:355:GLY:HA2	1.94	0.47
1:C:501:VAL:HA	1:C:504:LYS:HE2	1.96	0.47
1:C:803:GLU:OE1	1:C:2431:THR:CG2	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1634:ARG:HH11	1:D:1639:ALA:N	2.08	0.47
1:D:2094:HIS:O	1:D:2098:THR:HG22	2.13	0.47
1:D:2210:VAL:HB	1:D:2277:ILE:HD11	1.96	0.47
1:D:2461:VAL:HG21	1:D:2751:VAL:HG13	1.96	0.47
1:D:2060:TRP:HZ2	1:D:2966:ASP:HA	1.79	0.47
1:D:501:VAL:HA	1:D:504:LYS:HE2	1.96	0.47
1:D:997:GLU:HB3	1:D:1009:PRO:CG	2.45	0.47
1:E:301:LEU:HD13	1:E:330:LEU:HD22	1.96	0.47
1:E:606:ASN:H	1:E:606:ASN:HD22	1.63	0.47
1:E:832:ASP:O	1:E:836:VAL:HG23	2.14	0.47
1:F:1040:THR:O	1:F:1041:ALA:HB2	2.13	0.47
1:F:1590:VAL:HG11	1:F:1671:TRP:CE2	2.50	0.47
1:F:2000:LEU:HD12	1:C:2000:LEU:HD12	1.96	0.47
1:F:2614:LYS:NZ	1:A:2583:PHE:HB2	2.29	0.47
1:F:2676:SER:HB2	1:A:2845:PHE:CE1	2.49	0.47
1:A:2291:LEU:HD21	1:A:2332:LEU:HD22	1.95	0.47
1:A:2348:GLN:O	1:A:2416:MET:HG3	2.15	0.47
1:F:2583:PHE:HB2	1:A:2614:LYS:NZ	2.29	0.47
1:A:782:ARG:HD3	1:A:853:LEU:HD22	1.97	0.47
1:B:1362:MET:HG3	1:B:1430:VAL:HG21	1.95	0.47
1:B:1996:PRO:O	1:B:2000:LEU:N	2.41	0.47
1:B:2736:PRO:HG2	1:B:2746:SER:HA	1.96	0.47
1:B:301:LEU:HD13	1:B:330:LEU:HD22	1.95	0.47
1:B:674:TRP:CD1	1:B:895:THR:HG21	2.49	0.47
1:C:2210:VAL:HB	1:C:2277:ILE:HD11	1.97	0.47
1:C:2060:TRP:HZ2	1:C:2966:ASP:HA	1.79	0.47
1:C:305:ILE:HD13	1:C:327:GLU:HG2	1.95	0.47
1:D:2252:VAL:HG22	1:D:2255:ARG:NH2	2.30	0.47
1:D:2592:PRO:HA	1:D:2599:TRP:CD1	2.49	0.47
1:D:641:ASP:N	1:D:641:ASP:OD1	2.47	0.47
1:E:1276:GLN:HE21	1:E:1292:LEU:HD13	1.79	0.47
1:E:2137:GLU:O	1:E:2163:THR:N	2.30	0.47
1:E:2170:ARG:HB2	1:E:2175:ARG:HG3	1.95	0.47
1:E:2180:LYS:NZ	1:E:2962:ASP:HB3	2.29	0.47
1:E:782:ARG:HD3	1:E:853:LEU:HD22	1.96	0.47
1:F:1291:LYS:HA	1:F:1344:ALA:HB3	1.95	0.47
1:F:674:TRP:CD1	1:F:895:THR:HG21	2.50	0.47
1:A:1276:GLN:HE21	1:A:1292:LEU:HD13	1.79	0.47
1:A:1435:VAL:HG22	1:A:1703:ILE:HD12	1.95	0.47
1:A:1533:VAL:HG13	1:A:1582:HIS:HB2	1.95	0.47
1:A:2592:PRO:HA	1:A:2599:TRP:CD1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2645:ASP:OD1	1:A:2647:VAL:HG23	2.13	0.47
1:A:606:ASN:HD22	1:A:606:ASN:H	1.62	0.47
1:B:1467:VAL:HA	1:B:1605:LYS:HD2	1.96	0.47
1:B:184:LEU:HB3	1:B:311:TRP:HE3	1.78	0.47
1:C:1111:PHE:HE1	1:C:1129:LEU:HD11	1.78	0.47
1:D:2848:GLY:HA2	1:C:2728:GLY:HA2	1.97	0.47
1:C:2843:GLN:HG2	1:C:2845:PHE:CZ	2.49	0.47
1:C:2180:LYS:NZ	1:C:2962:ASP:HB3	2.29	0.47
1:C:836:VAL:HG12	1:C:837:VAL:N	2.29	0.47
1:C:670:GLY:HA3	1:C:899:ALA:HB2	1.96	0.47
1:D:2583:PHE:HB2	1:C:2614:LYS:HG3	1.97	0.47
1:D:2614:LYS:HG3	1:C:2583:PHE:HB2	1.97	0.47
1:E:444:ILE:HD12	1:E:655:ALA:HA	1.95	0.47
1:E:647:THR:HG22	1:E:901:ILE:HD11	1.96	0.47
1:F:2681:THR:O	1:F:2764:ALA:HA	2.15	0.47
1:A:141:ALA:O	1:A:145:MET:HB2	2.14	0.47
1:A:2056:PHE:CZ	1:A:2180:LYS:HE2	2.47	0.47
1:A:361:THR:HG21	1:A:377:PRO:HG3	1.95	0.47
1:A:641:ASP:N	1:A:641:ASP:OD1	2.48	0.47
1:A:803:GLU:OE1	1:A:2431:THR:CG2	2.62	0.47
1:B:171:LYS:HE3	1:B:173:ALA:HB3	1.96	0.47
1:B:2291:LEU:HD21	1:B:2332:LEU:HD22	1.95	0.47
1:B:2352:ILE:HG12	1:B:2412:ALA:HB1	1.96	0.47
1:B:361:THR:HG21	1:B:377:PRO:HG3	1.95	0.47
1:B:803:GLU:OE1	1:B:2431:THR:CG2	2.62	0.47
1:C:1455:VAL:HB	1:C:1480:ARG:HH12	1.80	0.47
1:C:2592:PRO:HA	1:C:2599:TRP:CD1	2.49	0.47
1:C:674:TRP:CD1	1:C:895:THR:HG21	2.49	0.47
1:D:1276:GLN:HE21	1:D:1292:LEU:HD13	1.79	0.47
1:D:2376:LEU:HD22	1:D:2392:VAL:HG21	1.97	0.47
1:E:1435:VAL:HG22	1:E:1703:ILE:HD12	1.95	0.47
1:E:2167:THR:HB	1:E:2198:ALA:HB3	1.96	0.47
1:E:2681:THR:O	1:E:2764:ALA:HA	2.15	0.47
1:E:365:ALA:HB3	1:E:366:PRO:HD3	1.97	0.47
1:E:361:THR:HG21	1:E:377:PRO:HG3	1.95	0.47
1:E:808:ALA:HB3	1:E:811:ASP:HB2	1.96	0.47
1:F:1699:ARG:HG3	1:F:1730:GLU:HB3	1.97	0.47
1:F:670:GLY:HA3	1:F:899:ALA:HB2	1.96	0.47
1:F:966:PRO:O	1:F:970:ILE:N	2.48	0.47
1:F:976:TRP:CG	1:F:976:TRP:O	2.68	0.47
1:F:997:GLU:HB3	1:F:1009:PRO:CG	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:365:ALA:O	1:A:369:ARG:N	2.42	0.47
1:A:647:THR:HG22	1:A:901:ILE:HD11	1.96	0.47
1:A:713:ALA:O	1:A:868:ARG:NH2	2.48	0.47
1:D:2000:LEU:HD12	1:B:2000:LEU:HD12	1.97	0.47
1:C:790:ALA:HB3	1:C:826:LEU:HD21	1.95	0.47
1:D:2348:GLN:O	1:D:2416:MET:HG3	2.15	0.47
1:D:2610:ARG:NH1	1:D:2700:LEU:HD11	2.25	0.47
1:D:2926:SER:HB3	1:D:2976:TRP:HH2	1.79	0.47
1:D:2667:THR:HB	1:D:3081:LEU:HD11	1.96	0.47
1:D:832:ASP:O	1:D:836:VAL:HG23	2.14	0.47
1:D:670:GLY:HA3	1:D:899:ALA:HB2	1.96	0.47
1:E:141:ALA:O	1:E:145:MET:HB2	2.14	0.47
1:E:2348:GLN:O	1:E:2416:MET:HG3	2.15	0.47
1:E:2848:GLY:HA2	1:B:2728:GLY:HA2	1.97	0.47
1:E:305:ILE:HD13	1:E:327:GLU:HG2	1.95	0.47
1:E:683:GLY:CA	1:E:700:ASN:HB2	2.44	0.47
1:E:997:GLU:HB3	1:E:1009:PRO:CG	2.45	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:2927:GLN:HE22	1:F:2941:PHE:C	2.17	0.47
1:A:1103:VAL:HG21	1:A:1269:MET:SD	2.54	0.47
1:A:1467:VAL:HA	1:A:1605:LYS:HD2	1.96	0.47
1:A:1651:THR:HB	1:A:1656:LYS:HD2	1.95	0.47
1:A:2461:VAL:HG21	1:A:2751:VAL:HG13	1.96	0.47
1:A:2681:THR:O	1:A:2764:ALA:HA	2.15	0.47
1:A:2180:LYS:NZ	1:A:2962:ASP:HB3	2.29	0.47
1:A:808:ALA:HB3	1:A:811:ASP:HB2	1.96	0.47
1:B:647:THR:HG22	1:B:901:ILE:HD11	1.96	0.47
1:C:976:TRP:O	1:C:976:TRP:CG	2.68	0.47
1:D:1072:TRP:HE1	1:D:1077:VAL:HG22	1.80	0.47
1:D:782:ARG:HD3	1:D:853:LEU:HD22	1.97	0.47
1:E:1651:THR:HB	1:E:1656:LYS:HD2	1.95	0.47
1:E:670:GLY:HA3	1:E:899:ALA:HB2	1.96	0.47
1:F:2348:GLN:O	1:F:2416:MET:HG3	2.15	0.47
1:F:2667:THR:HB	1:F:3081:LEU:HD11	1.96	0.47
1:F:3065:PRO:O	1:F:3069:GLN:N	2.42	0.47
1:F:836:VAL:HG12	1:F:837:VAL:N	2.29	0.47
1:A:674:TRP:CD1	1:A:895:THR:HG21	2.50	0.47
1:B:2252:VAL:HG22	1:B:2255:ARG:NH2	2.30	0.47
1:B:2180:LYS:NZ	1:B:2962:ASP:HB3	2.29	0.47
1:B:778:THR:HG21	1:B:854:GLY:HA3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:997:GLU:HB3	1:C:1009:PRO:CG	2.45	0.47
1:C:141:ALA:O	1:C:145:MET:HB2	2.15	0.47
1:C:2376:LEU:HD22	1:C:2392:VAL:HG21	1.97	0.47
1:C:641:ASP:OD1	1:C:641:ASP:N	2.47	0.47
1:C:808:ALA:HB3	1:C:811:ASP:HB2	1.96	0.47
1:C:713:ALA:O	1:C:868:ARG:NH2	2.48	0.47
1:D:2614:LYS:NZ	1:C:2583:PHE:HB2	2.29	0.47
1:D:713:ALA:O	1:D:868:ARG:NH2	2.48	0.47
1:D:808:ALA:HB3	1:D:811:ASP:HB2	1.96	0.47
1:E:2252:VAL:HG22	1:E:2255:ARG:NH2	2.30	0.47
1:F:210:VAL:HG22	1:F:287:PHE:CD1	2.50	0.47
1:F:2407:GLU:HG2	1:F:2411:LYS:HE3	1.96	0.47
1:F:2700:LEU:HD22	1:A:2697:HIS:CD2	2.43	0.47
1:F:2800:PHE:CE1	1:F:2812:LEU:HD22	2.50	0.47
1:F:301:LEU:HD13	1:F:330:LEU:HD22	1.96	0.47
1:F:961:ARG:NE	1:F:1196:GLY:HA2	2.29	0.47
1:A:778:THR:HG21	1:A:854:GLY:HA3	1.97	0.47
1:B:141:ALA:O	1:B:145:MET:HB2	2.15	0.47
1:B:2667:THR:HB	1:B:3081:LEU:HD11	1.96	0.47
1:B:713:ALA:O	1:B:868:ARG:NH2	2.48	0.47
1:C:2461:VAL:HG21	1:C:2751:VAL:HG13	1.96	0.47
1:C:2773:GLU:HA	1:C:2776:ILE:HG22	1.97	0.47
1:D:2728:GLY:HA2	1:C:2848:GLY:HA2	1.97	0.47
1:C:745:THR:HG22	1:C:747:LEU:H	1.80	0.47
1:D:2762:VAL:HG22	1:D:2822:LEU:HB2	1.96	0.47
1:D:2773:GLU:HA	1:D:2776:ILE:HG22	1.97	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:E:1590:VAL:HG11	1:E:1671:TRP:CE2	2.50	0.47
1:E:1699:ARG:HG3	1:E:1730:GLU:HB3	1.97	0.47
1:F:1381:ASP:OD1	1:F:1391:SER:OG	2.22	0.47
1:F:2210:VAL:HB	1:F:2277:ILE:HD11	1.97	0.47
1:F:2630:ASP:HB3	1:F:2633:VAL:HG23	1.97	0.47
1:F:2843:GLN:HG2	1:F:2845:PHE:CZ	2.49	0.47
1:F:602:ARG:NH2	1:F:641:ASP:OD1	2.27	0.47
1:F:683:GLY:CA	1:F:700:ASN:HB2	2.44	0.47
1:A:1699:ARG:HG3	1:A:1730:GLU:HB3	1.97	0.47
1:A:832:ASP:O	1:A:836:VAL:HG23	2.14	0.47
1:B:1625:LEU:HD11	1:B:1660:LEU:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2376:LEU:HD22	1:B:2392:VAL:HG21	1.97	0.47
1:B:2461:VAL:HG21	1:B:2751:VAL:HG13	1.96	0.47
1:B:2648:ALA:HA	1:B:2718:VAL:HG13	1.96	0.47
1:B:2927:GLN:HE22	1:B:2941:PHE:C	2.17	0.47
1:B:997:GLU:HB3	1:B:1009:PRO:CG	2.44	0.47
1:C:1072:TRP:HE1	1:C:1077:VAL:HG22	1.80	0.47
1:C:1276:GLN:HE21	1:C:1292:LEU:HD13	1.79	0.47
1:C:210:VAL:HG22	1:C:287:PHE:CD1	2.50	0.47
1:C:2348:GLN:O	1:C:2416:MET:HG3	2.15	0.47
1:D:1590:VAL:HG11	1:D:1671:TRP:CE2	2.50	0.47
1:D:1996:PRO:O	1:D:2000:LEU:N	2.41	0.47
1:D:647:THR:HG22	1:D:901:ILE:HD11	1.96	0.47
1:E:210:VAL:HG22	1:E:287:PHE:CD1	2.50	0.47
1:E:2461:VAL:HG21	1:E:2751:VAL:HG13	1.96	0.47
1:E:2736:PRO:HG2	1:E:2746:SER:HA	1.96	0.47
1:E:501:VAL:HA	1:E:504:LYS:HE2	1.96	0.47
1:E:836:VAL:HG12	1:E:837:VAL:N	2.29	0.47
1:F:1037:ASP:HB2	1:F:1042:MET:H	1.80	0.47
1:F:141:ALA:O	1:F:145:MET:HB2	2.15	0.47
1:F:2645:ASP:OD1	1:F:2647:VAL:HG23	2.13	0.47
1:F:2785:ALA:HB1	1:F:2809:LEU:HG	1.97	0.47
1:F:2770:LEU:HB3	1:F:2815:GLN:HB3	1.97	0.47
1:F:518:ASP:HA	1:F:543:GLY:O	2.15	0.47
1:F:647:THR:HG22	1:F:901:ILE:HD11	1.96	0.47
1:F:959:ALA:HA	1:F:1038:ALA:HB2	1.97	0.47
1:A:1455:VAL:HB	1:A:1480:ARG:HH12	1.80	0.47
1:A:2630:ASP:HB3	1:A:2633:VAL:HG23	1.97	0.47
1:A:2884:ASP:HA	1:A:2916:ARG:NH1	2.29	0.47
1:A:745:THR:HG22	1:A:747:LEU:H	1.80	0.47
1:B:1072:TRP:HE1	1:B:1077:VAL:HG22	1.80	0.47
1:B:210:VAL:HG22	1:B:287:PHE:CD1	2.50	0.47
1:B:2348:GLN:O	1:B:2416:MET:HG3	2.15	0.47
1:E:2583:PHE:HB2	1:B:2614:LYS:HG3	1.97	0.47
1:B:2843:GLN:HG2	1:B:2845:PHE:CZ	2.49	0.47
1:B:365:ALA:O	1:B:369:ARG:N	2.42	0.47
1:B:966:PRO:O	1:B:970:ILE:N	2.48	0.47
1:A:198:ILE:HG12	1:C:1087:PHE:CE1	2.50	0.47
1:C:1699:ARG:HG3	1:C:1730:GLU:HB3	1.97	0.47
1:C:2252:VAL:HG22	1:C:2255:ARG:NH2	2.30	0.47
1:D:1450:ALA:N	1:D:1613:ARG:O	2.48	0.47
1:D:2648:ALA:HA	1:D:2718:VAL:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:996:LEU:HA	1:D:1010:LEU:HA	1.97	0.47
1:E:1467:VAL:HA	1:E:1605:LYS:HD2	1.96	0.47
1:E:1723:GLU:C	1:E:1725:SER:H	2.18	0.47
1:E:778:THR:HG21	1:E:854:GLY:HA3	1.97	0.47
1:E:966:PRO:O	1:E:970:ILE:N	2.48	0.47
1:F:1508:ILE:HB	1:F:1562:ARG:HD3	1.96	0.47
1:F:184:LEU:HD13	1:F:311:TRP:HB3	1.96	0.47
1:F:2884:ASP:HA	1:F:2916:ARG:NH1	2.29	0.47
1:F:713:ALA:O	1:F:868:ARG:NH2	2.48	0.47
1:A:2482:GLU:HG2	1:A:2956:PRO:HB3	1.97	0.46
1:A:2736:PRO:HG2	1:A:2746:SER:HA	1.96	0.46
1:A:670:GLY:HA3	1:A:899:ALA:HB2	1.96	0.46
1:A:997:GLU:HB3	1:A:1009:PRO:CG	2.45	0.46
1:B:1455:VAL:HB	1:B:1480:ARG:HH12	1.80	0.46
1:B:2252:VAL:HG13	1:B:2255:ARG:HH21	1.81	0.46
1:B:2681:THR:O	1:B:2764:ALA:HA	2.15	0.46
1:B:2785:ALA:HB1	1:B:2809:LEU:HG	1.97	0.46
1:B:2060:TRP:HZ2	1:B:2966:ASP:HA	1.79	0.46
1:B:184:LEU:HD13	1:B:311:TRP:HB3	1.96	0.46
1:C:1508:ILE:HB	1:C:1562:ARG:HD3	1.97	0.46
1:C:1723:GLU:C	1:C:1725:SER:H	2.18	0.46
1:C:2252:VAL:HG13	1:C:2255:ARG:HH21	1.80	0.46
1:C:2554:ALA:HB1	1:C:2614:LYS:HD2	1.95	0.46
1:C:365:ALA:HB3	1:C:366:PRO:HD3	1.96	0.46
1:C:575:HIS:CD2	1:C:644:LEU:HD22	2.49	0.46
1:C:996:LEU:HA	1:C:1010:LEU:HA	1.97	0.46
1:D:1508:ILE:HB	1:D:1562:ARG:HD3	1.97	0.46
1:D:1723:GLU:C	1:D:1725:SER:H	2.18	0.46
1:D:2554:ALA:HB1	1:D:2614:LYS:HD2	1.95	0.46
1:D:2681:THR:O	1:D:2764:ALA:HA	2.15	0.46
1:D:1087:PHE:CE1	1:E:198:ILE:HG12	2.50	0.46
1:E:2543:PHE:HA	1:E:2624:GLN:HE22	1.81	0.46
1:E:2961:LEU:HD22	1:E:2976:TRP:CD1	2.51	0.46
1:F:959:ALA:CB	1:F:1126:ILE:HG23	2.34	0.46
1:F:2376:LEU:HD22	1:F:2392:VAL:HG21	1.97	0.46
1:F:585:HIS:HD2	1:F:586:SER:H	1.62	0.46
1:F:782:ARG:HD3	1:F:853:LEU:HD22	1.97	0.46
1:A:1450:ALA:N	1:A:1613:ARG:O	2.48	0.46
1:A:2376:LEU:HD22	1:A:2392:VAL:HG21	1.97	0.46
1:A:210:VAL:HG22	1:A:287:PHE:CD1	2.50	0.46
1:A:2060:TRP:HZ2	1:A:2966:ASP:HA	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1346:PRO:HG2	1:B:1699:ARG:HD3	1.98	0.46
1:B:1450:ALA:N	1:B:1613:ARG:O	2.48	0.46
1:B:2210:VAL:HB	1:B:2277:ILE:HD11	1.97	0.46
1:B:2482:GLU:HG2	1:B:2956:PRO:HB3	1.97	0.46
1:B:84:GLU:HB2	1:B:85:PRO:HD3	1.97	0.46
1:B:1087:PHE:CE1	1:C:198:ILE:HG12	2.50	0.46
1:C:2543:PHE:HA	1:C:2624:GLN:HE22	1.81	0.46
1:C:2630:ASP:HB3	1:C:2633:VAL:HG23	1.97	0.46
1:C:2961:LEU:HD22	1:C:2976:TRP:CD1	2.50	0.46
1:D:2352:ILE:HG12	1:D:2412:ALA:HB1	1.96	0.46
1:D:976:TRP:O	1:D:976:TRP:CG	2.68	0.46
1:E:1634:ARG:NH1	1:E:1639:ALA:H	2.11	0.46
1:E:713:ALA:O	1:E:868:ARG:NH2	2.48	0.46
1:E:684:MET:HG3	1:E:895:THR:HA	1.98	0.46
1:E:976:TRP:CG	1:E:976:TRP:O	2.68	0.46
1:F:2407:GLU:HB3	1:F:2411:LYS:CD	2.44	0.46
1:F:2648:ALA:HA	1:F:2718:VAL:HG13	1.96	0.46
1:F:540:ASN:ND2	1:F:544:ILE:HG13	2.30	0.46
1:F:641:ASP:OD1	1:F:641:ASP:N	2.47	0.46
1:F:2848:GLY:HA2	1:A:2728:GLY:HA2	1.97	0.46
1:A:518:ASP:HA	1:A:543:GLY:O	2.15	0.46
1:B:2961:LEU:HD22	1:B:2976:TRP:CD1	2.50	0.46
1:C:2352:ILE:HG12	1:C:2412:ALA:HB1	1.96	0.46
1:C:518:ASP:HA	1:C:543:GLY:O	2.15	0.46
1:C:602:ARG:NH2	1:C:641:ASP:OD1	2.27	0.46
1:C:647:THR:HG22	1:C:901:ILE:HD11	1.96	0.46
1:C:936:ARG:O	1:C:941:ARG:N	2.44	0.46
1:D:1699:ARG:HG3	1:D:1730:GLU:HB3	1.97	0.46
1:D:534:ASP:O	1:D:538:GLU:HG3	2.16	0.46
1:D:966:PRO:O	1:D:970:ILE:N	2.48	0.46
1:E:996:LEU:HA	1:E:1010:LEU:HA	1.98	0.46
1:E:1455:VAL:HB	1:E:1480:ARG:HH12	1.80	0.46
1:E:2096:VAL:HG13	1:E:2097:ALA:H	1.80	0.46
1:E:2252:VAL:HG13	1:E:2255:ARG:HH21	1.81	0.46
1:E:2884:ASP:HA	1:E:2916:ARG:NH1	2.30	0.46
1:E:575:HIS:CD2	1:E:644:LEU:HD22	2.49	0.46
1:F:1037:ASP:CA	1:F:1038:ALA:CB	2.87	0.46
1:F:2482:GLU:HG2	1:F:2956:PRO:HB3	1.97	0.46
1:A:1094:THR:O	1:A:1288:PRO:HG2	2.16	0.46
1:A:1590:VAL:HG11	1:A:1671:TRP:CE2	2.50	0.46
1:A:2352:ILE:HG12	1:A:2412:ALA:HB1	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:976:TRP:O	1:A:976:TRP:CG	2.68	0.46
1:B:1723:GLU:C	1:B:1725:SER:H	2.18	0.46
1:B:2630:ASP:HB3	1:B:2633:VAL:HG23	1.97	0.46
1:B:2770:LEU:HB3	1:B:2815:GLN:HB3	1.97	0.46
1:B:518:ASP:HA	1:B:543:GLY:O	2.15	0.46
1:B:808:ALA:HB3	1:B:811:ASP:HB2	1.96	0.46
1:A:1237:ARG:CZ	1:B:95:PRO:HB2	2.46	0.46
1:B:976:TRP:CG	1:B:976:TRP:O	2.68	0.46
1:C:1590:VAL:HG11	1:C:1671:TRP:CE2	2.50	0.46
1:C:2361:VAL:HG21	1:C:2401:ILE:HD11	1.98	0.46
1:D:2612:PRO:HD2	1:C:2603:ARG:HH12	1.81	0.46
1:C:684:MET:HG3	1:C:895:THR:HA	1.98	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:D:518:ASP:HA	1:D:543:GLY:O	2.15	0.46
1:D:656:THR:HG1	1:D:880:HIS:CE1	2.29	0.46
1:E:2352:ILE:HG12	1:E:2412:ALA:HB1	1.96	0.46
1:E:406:THR:OG1	1:E:418:GLU:OE1	2.34	0.46
1:F:2543:PHE:HA	1:F:2624:GLN:HE22	1.81	0.46
1:F:3001:HIS:CE1	1:A:2724:GLN:HG2	2.51	0.46
1:A:602:ARG:NH2	1:A:641:ASP:OD1	2.27	0.46
1:A:768:LYS:HA	1:A:775:LEU:HD11	1.98	0.46
1:B:799:PHE:CZ	1:B:2433:ARG:CG	2.99	0.46
1:B:768:LYS:HA	1:B:775:LEU:HD11	1.98	0.46
1:C:606:ASN:HD22	1:C:606:ASN:H	1.63	0.46
1:C:768:LYS:HA	1:C:775:LEU:HD11	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:2361:VAL:HG21	1:D:2401:ILE:HD11	1.98	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:2630:ASP:HB3	1:E:2633:VAL:HG23	1.97	0.46
1:E:3001:HIS:CE1	1:B:2724:GLN:HG2	2.51	0.46
1:F:1325:LEU:HD11	1:F:1343:LEU:HD22	1.98	0.46
1:F:167:ALA:HB3	1:F:178:LEU:HD21	1.98	0.46
1:F:2461:VAL:HG21	1:F:2751:VAL:HG13	1.97	0.46
1:F:2961:LEU:HD22	1:F:2976:TRP:CD1	2.51	0.46
1:F:406:THR:OG1	1:F:418:GLU:OE1	2.34	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:966:PRO:O	1:A:970:ILE:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1072:TRP:CD1	1:B:1097:VAL:HG22	2.51	0.46
1:B:745:THR:HG22	1:B:747:LEU:H	1.80	0.46
1:B:94:ARG:HG3	1:B:95:PRO:HD3	1.98	0.46
1:C:1072:TRP:CD1	1:C:1097:VAL:HG22	2.51	0.46
1:C:1346:PRO:HG2	1:C:1699:ARG:HD3	1.97	0.46
1:D:2603:ARG:HH12	1:C:2612:PRO:HD2	1.81	0.46
1:C:778:THR:HG21	1:C:854:GLY:HA3	1.97	0.46
1:D:2070:LEU:O	1:D:2074:GLU:HG3	2.16	0.46
1:D:2252:VAL:HG13	1:D:2255:ARG:HH21	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:D:606:ASN:HD22	1:D:606:ASN:H	1.62	0.46
1:D:768:LYS:HA	1:D:775:LEU:HD11	1.98	0.46
1:D:1087:PHE:HB3	1:E:117:LYS:HZ1	1.80	0.46
1:E:2769:ASP:OD1	1:E:2770:LEU:N	2.49	0.46
1:E:2790:MET:SD	1:E:2800:PHE:HB2	2.56	0.46
1:E:518:ASP:HA	1:E:543:GLY:O	2.15	0.46
1:E:540:ASN:ND2	1:E:544:ILE:HG13	2.30	0.46
1:F:1020:THR:CB	1:F:1035:VAL:HG22	2.43	0.46
1:F:2773:GLU:HA	1:F:2776:ILE:HG22	1.97	0.46
1:F:205:PRO:CD	1:F:289:PRO:HB3	2.46	0.46
1:F:2978:ARG:NH1	1:F:2979:GLU:OE2	2.49	0.46
1:F:516:PRO:HA	1:F:962:MET:SD	2.56	0.46
1:A:1346:PRO:HG2	1:A:1699:ARG:HD3	1.98	0.46
1:A:1619:VAL:HA	1:A:1620:PRO:HD2	1.80	0.46
1:A:2610:ARG:NH1	1:A:2700:LEU:HD21	2.31	0.46
1:A:534:ASP:O	1:A:538:GLU:HG3	2.16	0.46
1:B:205:PRO:CD	1:B:289:PRO:HB3	2.46	0.46
1:B:540:ASN:ND2	1:B:544:ILE:HG13	2.30	0.46
1:B:670:GLY:HA3	1:B:899:ALA:HB2	1.96	0.46
1:C:111:GLU:HB2	1:C:112:PRO:HD3	1.98	0.46
1:C:222:LEU:HD21	1:C:236:VAL:HA	1.97	0.46
1:C:2610:ARG:NH1	1:C:2700:LEU:HD21	2.31	0.46
1:C:2648:ALA:HA	1:C:2718:VAL:HG13	1.96	0.46
1:C:2482:GLU:HG2	1:C:2956:PRO:HB3	1.97	0.46
1:C:3080:ARG:NH1	1:C:3080:ARG:CG	2.72	0.46
1:C:782:ARG:HD3	1:C:853:LEU:HD22	1.97	0.46
1:D:2961:LEU:HD22	1:D:2976:TRP:CD1	2.51	0.46
1:D:406:THR:OG1	1:D:418:GLU:OE1	2.34	0.46
1:D:511:ARG:CB	1:D:540:ASN:HB2	2.46	0.46
1:D:778:THR:HG21	1:D:854:GLY:HA3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2210:VAL:HB	1:E:2277:ILE:HD11	1.96	0.46
1:E:2361:VAL:HG21	1:E:2401:ILE:HD11	1.98	0.46
1:E:2653:VAL:HA	1:E:3051:MET:HE3	1.97	0.46
1:E:2785:ALA:HB1	1:E:2809:LEU:HG	1.97	0.46
1:E:3065:PRO:O	1:E:3069:GLN:N	2.43	0.46
1:E:641:ASP:OD1	1:E:641:ASP:N	2.47	0.46
1:F:1037:ASP:CB	1:F:1042:MET:N	2.79	0.46
1:F:961:ARG:NE	1:F:1196:GLY:N	2.61	0.46
1:F:745:THR:HG22	1:F:747:LEU:H	1.80	0.46
1:A:1325:LEU:HD11	1:A:1343:LEU:HD22	1.98	0.46
1:A:1508:ILE:HB	1:A:1562:ARG:HD3	1.97	0.46
1:A:2212:TRP:HA	1:A:2229:LYS:HB3	1.98	0.46
1:A:2252:VAL:HG13	1:A:2255:ARG:HH21	1.80	0.46
1:A:2610:ARG:NH1	1:A:2700:LEU:HD11	2.25	0.46
1:F:2557:LEU:CG	1:A:2702:GLY:HA3	2.45	0.46
1:A:2790:MET:SD	1:A:2800:PHE:HB2	2.56	0.46
1:A:2978:ARG:NH1	1:A:2979:GLU:OE2	2.49	0.46
1:A:84:GLU:HB2	1:A:85:PRO:HD3	1.98	0.46
1:B:1319:ASP:HB2	1:B:1342:ARG:NH1	2.31	0.46
1:B:207:MET:HG3	1:B:292:VAL:HB	1.98	0.46
1:B:2610:ARG:NH1	1:B:2700:LEU:HD21	2.31	0.46
1:B:2978:ARG:NH1	1:B:2979:GLU:OE2	2.49	0.46
1:B:931:VAL:HG13	1:B:934:LEU:N	2.21	0.46
1:C:1462:ALA:HB2	1:C:1468:TYR:HE1	1.81	0.46
1:C:1619:VAL:HA	1:C:1620:PRO:HD2	1.80	0.46
1:C:207:MET:HG3	1:C:292:VAL:HB	1.98	0.46
1:C:2762:VAL:HG22	1:C:2822:LEU:HB2	1.96	0.46
1:C:2800:PHE:CE1	1:C:2812:LEU:HD22	2.50	0.46
1:C:2845:PHE:HD2	1:C:2860:ALA:HA	1.81	0.46
1:C:2946:LEU:HD22	1:C:2994:VAL:HG23	1.98	0.46
1:C:277:LEU:HD22	1:C:676:GLY:O	2.16	0.46
1:D:1072:TRP:CD1	1:D:1097:VAL:HG22	2.51	0.46
1:D:3001:HIS:CE1	1:C:2724:GLN:HG2	2.51	0.46
1:D:540:ASN:ND2	1:D:544:ILE:HG13	2.30	0.46
1:E:1695:LEU:HD23	1:F:257:ARG:NH1	2.23	0.46
1:E:205:PRO:CD	1:E:289:PRO:HB3	2.46	0.46
1:E:2603:ARG:HH12	1:B:2612:PRO:HD2	1.81	0.46
1:E:2612:PRO:HD2	1:B:2603:ARG:HH12	1.81	0.46
1:F:1346:PRO:HG2	1:F:1699:ARG:HD3	1.98	0.46
1:F:799:PHE:CZ	1:F:2433:ARG:CG	2.99	0.46
1:F:2790:MET:SD	1:F:2800:PHE:HB2	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:365:ALA:HB3	1:F:366:PRO:HD3	1.96	0.46
1:F:365:ALA:O	1:F:369:ARG:N	2.42	0.46
1:F:606:ASN:HD22	1:F:606:ASN:H	1.62	0.46
1:A:1087:PHE:CE1	1:B:198:ILE:HG12	2.51	0.46
1:A:111:GLU:HB2	1:A:112:PRO:HD3	1.98	0.46
1:A:2252:VAL:HG22	1:A:2255:ARG:NH2	2.30	0.46
1:F:2614:LYS:HG3	1:A:2583:PHE:HB2	1.97	0.46
1:A:2619:ARG:HH12	1:A:2779:GLY:HA2	1.81	0.46
1:A:2891:LYS:HG3	1:A:2924:ILE:HD13	1.98	0.46
1:B:1094:THR:O	1:B:1288:PRO:HG2	2.16	0.46
1:E:2737:VAL:HG12	1:B:2716:ASN:OD1	2.16	0.46
1:B:365:ALA:HB3	1:B:366:PRO:HD3	1.96	0.46
1:B:606:ASN:H	1:B:606:ASN:HD22	1.63	0.46
1:B:277:LEU:HD22	1:B:676:GLY:O	2.16	0.46
1:B:868:ARG:HD3	1:B:872:ARG:HH12	1.81	0.46
1:C:1702:GLU:OE1	1:C:1712:ALA:N	2.49	0.46
1:C:2785:ALA:HB1	1:C:2809:LEU:HG	1.97	0.46
1:C:406:THR:OG1	1:C:418:GLU:OE1	2.34	0.46
1:C:540:ASN:ND2	1:C:544:ILE:HG13	2.30	0.46
1:C:966:PRO:O	1:C:970:ILE:N	2.48	0.46
1:D:1455:VAL:HB	1:D:1480:ARG:HH12	1.80	0.46
1:D:2630:ASP:HB3	1:D:2633:VAL:HG23	1.97	0.46
1:D:745:THR:HG22	1:D:747:LEU:H	1.80	0.46
1:E:1094:THR:O	1:E:1288:PRO:HG2	2.15	0.46
1:E:2773:GLU:HA	1:E:2776:ILE:HG22	1.97	0.46
1:E:2482:GLU:HG2	1:E:2956:PRO:HB3	1.97	0.46
1:F:2252:VAL:HG13	1:F:2255:ARG:HH21	1.80	0.46
1:E:1237:ARG:CZ	1:F:95:PRO:HB2	2.46	0.46
1:A:1723:GLU:C	1:A:1725:SER:H	2.18	0.46
1:A:2297:ARG:HH22	1:A:2391:LYS:HZ3	1.64	0.46
1:A:205:PRO:CD	1:A:289:PRO:HB3	2.46	0.46
1:A:2961:LEU:HD22	1:A:2976:TRP:CD1	2.51	0.46
1:A:2957:PRO:HB3	1:A:2979:GLU:C	2.36	0.46
1:A:656:THR:HG1	1:A:880:HIS:CE1	2.31	0.46
1:B:167:ALA:HB3	1:B:178:LEU:HD21	1.98	0.46
1:B:2790:MET:SD	1:B:2800:PHE:HB2	2.56	0.46
1:B:2672:TRP:CD1	1:B:2831:MET:HG2	2.51	0.46
1:E:2728:GLY:HA2	1:B:2848:GLY:HA2	1.97	0.46
1:B:2845:PHE:HD2	1:B:2860:ALA:HA	1.81	0.46
1:B:2891:LYS:HG3	1:B:2924:ILE:HD13	1.98	0.46
1:C:2790:MET:SD	1:C:2800:PHE:HB2	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:784:GLU:OE2	1:C:816:LEU:HD21	2.16	0.46
1:D:1346:PRO:HG2	1:D:1699:ARG:HD3	1.98	0.46
1:D:2785:ALA:HB1	1:D:2809:LEU:HG	1.97	0.46
1:D:575:HIS:CD2	1:D:644:LEU:HD22	2.49	0.46
1:E:1508:ILE:HB	1:E:1562:ARG:HD3	1.96	0.46
1:E:2957:PRO:HB3	1:E:2979:GLU:C	2.36	0.46
1:E:936:ARG:O	1:E:941:ARG:N	2.45	0.46
1:F:2096:VAL:HG13	1:F:2097:ALA:H	1.80	0.46
1:A:1483:LYS:O	1:A:1487:ILE:HG23	2.17	0.45
1:A:1612:GLY:N	1:A:1623:PHE:O	2.48	0.45
1:E:2000:LEU:HD12	1:A:2000:LEU:HD12	1.96	0.45
1:A:2361:VAL:HG21	1:A:2401:ILE:HD11	1.98	0.45
1:F:2612:PRO:HD2	1:A:2603:ARG:HH12	1.81	0.45
1:F:2583:PHE:HB2	1:A:2614:LYS:HG3	1.97	0.45
1:A:2769:ASP:OD1	1:A:2770:LEU:N	2.49	0.45
1:A:406:THR:OG1	1:A:418:GLU:OE1	2.34	0.45
1:A:95:PRO:HB2	1:C:1237:ARG:CZ	2.45	0.45
1:B:1325:LEU:HD11	1:B:1343:LEU:HD22	1.98	0.45
1:B:2946:LEU:HD22	1:B:2994:VAL:HG23	1.98	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:683:GLY:CA	1:B:700:ASN:HB2	2.44	0.45
1:C:1304:LYS:O	1:C:1307:ASP:HB2	2.16	0.45
1:C:167:ALA:HB3	1:C:178:LEU:HD21	1.98	0.45
1:C:2681:THR:O	1:C:2764:ALA:HA	2.15	0.45
1:C:2957:PRO:HB3	1:C:2979:GLU:C	2.36	0.45
1:C:2978:ARG:NH1	1:C:2979:GLU:OE2	2.49	0.45
1:D:2543:PHE:HA	1:D:2624:GLN:HE22	1.81	0.45
1:D:2978:ARG:NH1	1:D:2979:GLU:OE2	2.49	0.45
1:D:3080:ARG:NH1	1:D:3080:ARG:CG	2.72	0.45
1:D:544:ILE:O	1:D:546:HIS:N	2.41	0.45
1:E:2376:LEU:HD22	1:E:2392:VAL:HG21	1.97	0.45
1:E:2724:GLN:HG2	1:B:3001:HIS:CE1	2.51	0.45
1:E:2891:LYS:HG3	1:E:2924:ILE:HD13	1.99	0.45
1:E:2978:ARG:NH1	1:E:2979:GLU:OE2	2.49	0.45
1:E:84:GLU:HB2	1:E:85:PRO:HD3	1.98	0.45
1:E:868:ARG:HD3	1:E:872:ARG:HH12	1.81	0.45
1:F:1094:THR:O	1:F:1288:PRO:HG2	2.15	0.45
1:F:2086:SER:HA	1:F:2089:PHE:CG	2.51	0.45
1:F:2234:PRO:HB2	1:F:2287:LEU:HD13	1.98	0.45
1:F:2728:GLY:HA2	1:A:2848:GLY:HA2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2891:LYS:HG3	1:F:2924:ILE:HD13	1.99	0.45
1:F:2946:LEU:HD22	1:F:2994:VAL:HG23	1.98	0.45
1:F:544:ILE:O	1:F:546:HIS:N	2.40	0.45
1:F:277:LEU:HD22	1:F:676:GLY:O	2.16	0.45
1:F:778:THR:HG21	1:F:854:GLY:HA3	1.97	0.45
1:A:1702:GLU:OE1	1:A:1712:ALA:N	2.49	0.45
1:A:2086:SER:HA	1:A:2089:PHE:CG	2.51	0.45
1:B:1699:ARG:HG3	1:B:1730:GLU:HB3	1.97	0.45
1:B:2086:SER:HA	1:B:2089:PHE:CG	2.52	0.45
1:B:2889:ILE:HD11	1:B:2922:LEU:HD22	1.98	0.45
1:C:1171:PRO:HA	1:C:1191:ARG:HG2	1.99	0.45
1:C:2619:ARG:NH1	1:C:2779:GLY:HA2	2.31	0.45
1:C:205:PRO:CD	1:C:289:PRO:HB3	2.46	0.45
1:C:683:GLY:CA	1:C:700:ASN:HB2	2.45	0.45
1:C:746:TYR:HB2	1:C:833:ALA:HB1	1.99	0.45
1:D:2234:PRO:HB2	1:D:2287:LEU:HD13	1.98	0.45
1:D:2246:ALA:N	1:D:2255:ARG:NH1	2.64	0.45
1:D:2619:ARG:NH1	1:D:2779:GLY:HA2	2.31	0.45
1:D:2957:PRO:HB3	1:D:2979:GLU:C	2.36	0.45
1:E:167:ALA:HB3	1:E:178:LEU:HD21	1.98	0.45
1:E:222:LEU:HD21	1:E:236:VAL:HA	1.97	0.45
1:E:799:PHE:CZ	1:E:2433:ARG:CG	2.99	0.45
1:E:2716:ASN:OD1	1:B:2737:VAL:HG12	2.16	0.45
1:E:534:ASP:O	1:E:538:GLU:HG3	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:94:ARG:HG3	1:F:95:PRO:HD3	1.98	0.45
1:A:1319:ASP:HB2	1:A:1342:ARG:NH1	2.31	0.45
1:A:2773:GLU:HA	1:A:2776:ILE:HG22	1.97	0.45
1:A:381:ARG:O	1:A:384:GLN:HG2	2.17	0.45
1:A:277:LEU:HD22	1:A:676:GLY:O	2.16	0.45
1:A:684:MET:HG3	1:A:895:THR:HA	1.98	0.45
1:B:111:GLU:HB2	1:B:112:PRO:HD3	1.98	0.45
1:B:1304:LYS:O	1:B:1307:ASP:HB2	2.16	0.45
1:B:1519:VAL:HG13	1:B:1530:LEU:HD23	1.99	0.45
1:B:2234:PRO:HB2	1:B:2287:LEU:HD13	1.98	0.45
1:B:2543:PHE:HA	1:B:2624:GLN:HE22	1.81	0.45
1:B:2610:ARG:NH1	1:B:2700:LEU:HD11	2.25	0.45
1:C:1352:PHE:HA	1:C:1353:PRO:HD3	1.72	0.45
1:C:2234:PRO:HB2	1:C:2287:LEU:HD13	1.98	0.45
1:C:534:ASP:O	1:C:538:GLU:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:84:GLU:HB2	1:C:85:PRO:HD3	1.98	0.45
1:D:1634:ARG:NH1	1:D:1639:ALA:H	2.11	0.45
1:D:2096:VAL:HG13	1:D:2097:ALA:H	1.80	0.45
1:E:2845:PHE:HD2	1:E:2860:ALA:HA	1.82	0.45
1:E:94:ARG:HG3	1:E:95:PRO:HD3	1.97	0.45
1:F:1021:LEU:HA	1:F:1034:GLU:HA	1.98	0.45
1:F:1038:ALA:HA	1:F:1126:ILE:HA	1.98	0.45
1:F:1553:ALA:O	1:F:1557:GLU:HG2	2.17	0.45
1:F:2070:LEU:O	1:F:2074:GLU:HG3	2.16	0.45
1:F:868:ARG:HD3	1:F:872:ARG:HH12	1.81	0.45
1:A:1284:GLY:HA2	1:A:1343:LEU:HD11	1.99	0.45
1:B:1553:ALA:O	1:B:1557:GLU:HG2	2.17	0.45
1:B:2361:VAL:HG21	1:B:2401:ILE:HD11	1.98	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:47:ALA:O	1:B:353:ASP:HA	2.17	0.45
1:C:1488:VAL:HB	1:C:1579:VAL:HG22	1.99	0.45
1:C:195:ARG:NH1	1:C:198:ILE:HD12	2.31	0.45
1:C:2246:ALA:N	1:C:2255:ARG:NH1	2.64	0.45
1:C:94:ARG:HG3	1:C:95:PRO:HD3	1.98	0.45
1:D:2769:ASP:OD1	1:D:2770:LEU:N	2.49	0.45
1:D:784:GLU:OE2	1:D:816:LEU:HD21	2.16	0.45
1:D:799:PHE:CZ	1:D:2433:ARG:CG	2.99	0.45
1:D:836:VAL:HG12	1:D:837:VAL:N	2.29	0.45
1:E:1346:PRO:HG2	1:E:1699:ARG:HD3	1.98	0.45
1:E:222:LEU:HD13	1:E:248:ILE:HD12	1.99	0.45
1:E:2800:PHE:CE1	1:E:2812:LEU:HD22	2.50	0.45
1:E:784:GLU:OE2	1:E:816:LEU:HD21	2.16	0.45
1:F:1072:TRP:CD1	1:F:1097:VAL:HG22	2.51	0.45
1:F:1519:VAL:HG13	1:F:1530:LEU:HD23	1.98	0.45
1:F:1450:ALA:N	1:F:1613:ARG:O	2.47	0.45
1:F:1702:GLU:OE1	1:F:1712:ALA:N	2.49	0.45
1:F:1723:GLU:C	1:F:1725:SER:H	2.18	0.45
1:E:1087:PHE:CE1	1:F:198:ILE:HG12	2.50	0.45
1:F:2246:ALA:N	1:F:2255:ARG:NH1	2.64	0.45
1:F:2452:ASP:HA	1:F:3017:ALA:HA	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	1.81	0.45
1:F:2889:ILE:HD11	1:F:2922:LEU:HD22	1.98	0.45
1:A:996:LEU:HA	1:A:1010:LEU:HA	1.97	0.45
1:A:1304:LYS:O	1:A:1307:ASP:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1553:ALA:O	1:A:1557:GLU:HG2	2.17	0.45
1:A:2946:LEU:HD22	1:A:2994:VAL:HG23	1.98	0.45
1:A:94:ARG:HG3	1:A:95:PRO:HD3	1.98	0.45
1:B:1285:LYS:HB3	1:B:1286:PRO:HD2	1.98	0.45
1:B:195:ARG:NH1	1:B:198:ILE:HD12	2.31	0.45
1:B:2246:ALA:N	1:B:2255:ARG:NH1	2.64	0.45
1:B:2619:ARG:HH12	1:B:2779:GLY:HA2	1.81	0.45
1:B:2472:TYR:CZ	1:B:2930:LEU:HD22	2.52	0.45
1:B:381:ARG:O	1:B:384:GLN:HG2	2.17	0.45
1:B:684:MET:HG3	1:B:895:THR:HA	1.98	0.45
1:C:1319:ASP:HB2	1:C:1342:ARG:NH1	2.31	0.45
1:C:2058:ASP:OD1	1:C:2058:ASP:N	2.46	0.45
1:C:2096:VAL:HG23	1:C:2097:ALA:H	1.80	0.45
1:C:222:LEU:HD13	1:C:248:ILE:HD12	1.99	0.45
1:D:2557:LEU:CG	1:C:2702:GLY:HA3	2.45	0.45
1:D:2716:ASN:OD1	1:C:2737:VAL:HG12	2.16	0.45
1:C:2619:ARG:HH12	1:C:2779:GLY:HA2	1.81	0.45
1:C:2989:LEU:HA	1:C:2989:LEU:HD12	1.77	0.45
1:C:351:ILE:HB	1:C:375:ILE:HG12	1.99	0.45
1:C:763:SER:HB3	1:C:766:ASP:HB2	1.99	0.45
1:D:1612:GLY:N	1:D:1623:PHE:O	2.48	0.45
1:D:1702:GLU:OE1	1:D:1712:ALA:N	2.49	0.45
1:D:2472:TYR:CZ	1:D:2930:LEU:HD22	2.52	0.45
1:D:2770:LEU:HB3	1:D:2815:GLN:HB3	1.97	0.45
1:D:747:LEU:HD22	1:D:751:ARG:CZ	2.47	0.45
1:D:684:MET:HG3	1:D:895:THR:HA	1.98	0.45
1:E:1553:ALA:O	1:E:1557:GLU:HG2	2.17	0.45
1:E:1634:ARG:NH1	1:E:1639:ALA:N	2.65	0.45
1:E:2086:SER:HA	1:E:2089:PHE:CG	2.52	0.45
1:E:2614:LYS:HG3	1:B:2583:PHE:HB2	1.97	0.45
1:E:2770:LEU:HB3	1:E:2815:GLN:HB3	1.97	0.45
1:E:277:LEU:HD22	1:E:676:GLY:O	2.16	0.45
1:E:745:THR:HG22	1:E:747:LEU:H	1.80	0.45
1:F:1304:LYS:O	1:F:1307:ASP:HB2	2.16	0.45
1:F:1319:ASP:HB2	1:F:1342:ARG:NH1	2.31	0.45
1:F:2614:LYS:HZ2	1:A:2583:PHE:HB2	1.80	0.45
1:F:784:GLU:OE2	1:F:816:LEU:HD21	2.16	0.45
1:F:84:GLU:HB2	1:F:85:PRO:HD3	1.98	0.45
1:A:1072:TRP:CD1	1:A:1097:VAL:HG22	2.51	0.45
1:A:167:ALA:HB3	1:A:178:LEU:HD21	1.98	0.45
1:A:2070:LEU:O	1:A:2074:GLU:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2210:VAL:HB	1:A:2277:ILE:HD11	1.96	0.45
1:F:2716:ASN:OD1	1:A:2737:VAL:HG12	2.16	0.45
1:A:2879:LEU:HD13	1:A:3009:VAL:HG11	1.98	0.45
1:A:3080:ARG:NH1	1:A:3080:ARG:CG	2.72	0.45
1:A:47:ALA:O	1:A:353:ASP:HA	2.17	0.45
1:B:2092:THR:CG2	1:B:2092:THR:O	2.64	0.45
1:B:2773:GLU:HA	1:B:2776:ILE:HG22	1.97	0.45
1:B:550:LYS:HD3	1:B:577:GLU:OE2	2.17	0.45
1:C:393:VAL:HG12	1:C:394:PRO:N	2.32	0.45
1:C:511:ARG:CB	1:C:540:ASN:HB2	2.46	0.45
1:C:585:HIS:CB	1:C:694:ASP:HB2	2.47	0.45
1:C:799:PHE:CZ	1:C:2433:ARG:CG	2.99	0.45
1:C:868:ARG:HD3	1:C:872:ARG:HH12	1.81	0.45
1:D:1304:LYS:O	1:D:1307:ASP:HB2	2.16	0.45
1:D:1284:GLY:HA2	1:D:1343:LEU:HD11	1.99	0.45
1:D:1462:ALA:HB2	1:D:1468:TYR:HE1	1.81	0.45
1:D:1553:ALA:O	1:D:1557:GLU:HG2	2.17	0.45
1:D:2137:GLU:O	1:D:2163:THR:N	2.30	0.45
1:D:2800:PHE:CE1	1:D:2812:LEU:HD22	2.50	0.45
1:D:2845:PHE:HD2	1:D:2860:ALA:HA	1.82	0.45
1:D:550:LYS:HD3	1:D:577:GLU:OE2	2.17	0.45
1:D:585:HIS:CB	1:D:694:ASP:HB2	2.47	0.45
1:E:1284:GLY:HA2	1:E:1343:LEU:HD11	1.99	0.45
1:E:1319:ASP:HB2	1:E:1342:ARG:NH1	2.31	0.45
1:E:2889:ILE:HD11	1:E:2922:LEU:HD22	1.98	0.45
1:E:2946:LEU:HD22	1:E:2994:VAL:HG23	1.98	0.45
1:F:1226:ARG:CG	1:F:1313:VAL:HG12	2.47	0.45
1:F:2212:TRP:HA	1:F:2229:LYS:HB3	1.98	0.45
1:F:207:MET:HG3	1:F:292:VAL:HB	1.98	0.45
1:F:2957:PRO:HB3	1:F:2979:GLU:C	2.36	0.45
1:A:2246:ALA:N	1:A:2255:ARG:NH1	2.64	0.45
1:A:799:PHE:CZ	1:A:2433:ARG:CG	2.99	0.45
1:A:2619:ARG:NH1	1:A:2779:GLY:HA2	2.31	0.45
1:A:2543:PHE:HA	1:A:2624:GLN:HE22	1.81	0.45
1:A:2785:ALA:HB1	1:A:2809:LEU:HG	1.97	0.45
1:A:2889:ILE:HD11	1:A:2922:LEU:HD22	1.98	0.45
1:A:585:HIS:CB	1:A:694:ASP:HB2	2.47	0.45
1:B:1237:ARG:CZ	1:C:95:PRO:HB2	2.46	0.45
1:B:1462:ALA:HB2	1:B:1468:TYR:HE1	1.81	0.45
1:C:1284:GLY:HA2	1:C:1343:LEU:HD11	1.99	0.45
1:C:2070:LEU:O	1:C:2074:GLU:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2672:TRP:CD1	1:C:2831:MET:HG2	2.52	0.45
1:C:2845:PHE:CD2	1:C:2860:ALA:HA	2.52	0.45
1:D:1226:ARG:CG	1:D:1313:VAL:HG12	2.47	0.45
1:D:1325:LEU:HD11	1:D:1343:LEU:HD22	1.98	0.45
1:D:868:ARG:HD3	1:D:872:ARG:HH12	1.81	0.45
1:E:1171:PRO:HA	1:E:1191:ARG:HG2	1.99	0.45
1:E:2212:TRP:HA	1:E:2229:LYS:HB3	1.98	0.45
1:E:2619:ARG:NH1	1:E:2779:GLY:HA2	2.31	0.45
1:E:2610:ARG:NH1	1:E:2700:LEU:HD21	2.31	0.45
1:E:2702:GLY:HA3	1:B:2557:LEU:CG	2.46	0.45
1:E:3080:ARG:CG	1:E:3080:ARG:NH1	2.72	0.45
1:F:996:LEU:HA	1:F:1010:LEU:HA	1.97	0.45
1:F:2300:PHE:CZ	1:F:2398:LEU:HB3	2.52	0.45
1:F:2603:ARG:HH12	1:A:2612:PRO:HD2	1.81	0.45
1:F:2845:PHE:CD2	1:F:2860:ALA:HA	2.52	0.45
1:A:1462:ALA:HB2	1:A:1468:TYR:HE1	1.81	0.45
1:A:222:LEU:HD21	1:A:236:VAL:HA	1.97	0.45
1:A:2296:ASN:HB3	1:A:2299:MET:SD	2.57	0.45
1:A:2845:PHE:HD2	1:A:2860:ALA:HA	1.81	0.45
1:B:1226:ARG:CG	1:B:1313:VAL:HG12	2.47	0.45
1:B:1483:LYS:O	1:B:1487:ILE:HG23	2.17	0.45
1:B:1634:ARG:NH1	1:B:1639:ALA:N	2.65	0.45
1:B:1702:GLU:OE1	1:B:1712:ALA:N	2.49	0.45
1:B:2212:TRP:HA	1:B:2229:LYS:HB3	1.98	0.45
1:B:2879:LEU:HD13	1:B:3009:VAL:HG11	1.98	0.45
1:B:784:GLU:OE2	1:B:816:LEU:HD21	2.16	0.45
1:C:381:ARG:O	1:C:384:GLN:HG2	2.17	0.45
1:D:1268:GLY:HA2	1:D:1271:LEU:HD12	1.99	0.45
1:D:2482:GLU:HG2	1:D:2956:PRO:HB3	1.97	0.45
1:D:2610:ARG:NH1	1:D:2700:LEU:HD21	2.31	0.45
1:D:2724:GLN:HG2	1:C:3001:HIS:CE1	2.51	0.45
1:D:2845:PHE:CD2	1:D:2860:ALA:HA	2.52	0.45
1:E:1450:ALA:N	1:E:1613:ARG:O	2.48	0.45
1:E:195:ARG:NH1	1:E:198:ILE:HD12	2.31	0.45
1:E:2297:ARG:HH22	1:E:2391:LYS:HZ3	1.65	0.45
1:E:2619:ARG:HH12	1:E:2779:GLY:HA2	1.81	0.45
1:E:2672:TRP:CD1	1:E:2831:MET:HG2	2.52	0.45
1:E:2989:LEU:HD12	1:E:2989:LEU:HA	1.77	0.45
1:F:966:PRO:HB3	1:F:1258:LEU:HD13	1.99	0.45
1:F:1634:ARG:NH1	1:F:1639:ALA:N	2.65	0.45
1:F:195:ARG:NH1	1:F:198:ILE:HD12	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:222:LEU:HD21	1:F:236:VAL:HA	1.97	0.45
1:F:2619:ARG:NH1	1:F:2779:GLY:HA2	2.31	0.45
1:F:2891:LYS:HZ2	1:F:2903:GLU:HG2	1.82	0.45
1:F:585:HIS:CB	1:F:694:ASP:HB2	2.47	0.45
1:A:1133:VAL:O	1:A:1193:ALA:N	2.42	0.45
1:A:3065:PRO:O	1:A:3069:GLN:N	2.42	0.45
1:B:1093:PRO:HB3	1:B:1277:HIS:CE1	2.52	0.45
1:B:2619:ARG:NH1	1:B:2779:GLY:HA2	2.31	0.45
1:B:2769:ASP:OD1	1:B:2770:LEU:N	2.49	0.45
1:B:393:VAL:HG12	1:B:394:PRO:N	2.32	0.45
1:C:1094:THR:O	1:C:1288:PRO:HG2	2.15	0.45
1:C:1612:GLY:N	1:C:1623:PHE:O	2.48	0.45
1:C:2300:PHE:CZ	1:C:2398:LEU:HB3	2.52	0.45
1:C:47:ALA:O	1:C:353:ASP:HA	2.17	0.45
1:C:664:LEU:HB3	1:C:701:ALA:HB1	1.99	0.45
1:C:747:LEU:HD22	1:C:751:ARG:CZ	2.47	0.45
1:D:2737:VAL:HG12	1:C:2716:ASN:OD1	2.16	0.45
1:D:2619:ARG:HH12	1:D:2779:GLY:HA2	1.81	0.45
1:D:746:TYR:HB2	1:D:833:ALA:HB1	1.99	0.45
1:D:936:ARG:O	1:D:941:ARG:N	2.45	0.45
1:E:1605:LYS:H	1:E:1658:LYS:HE2	1.82	0.45
1:E:2070:LEU:O	1:E:2074:GLU:HG3	2.16	0.45
1:E:515:ALA:HA	1:E:516:PRO:HD3	1.84	0.45
1:E:664:LEU:HB3	1:E:701:ALA:HB1	1.99	0.45
1:F:111:GLU:HB2	1:F:112:PRO:HD3	1.98	0.45
1:F:1483:LYS:O	1:F:1487:ILE:HG23	2.17	0.45
1:F:1488:VAL:HB	1:F:1579:VAL:HG22	1.99	0.45
1:F:47:ALA:O	1:F:353:ASP:HA	2.17	0.45
1:F:550:LYS:HD3	1:F:577:GLU:OE2	2.17	0.45
1:F:747:LEU:HD22	1:F:751:ARG:CZ	2.47	0.45
1:A:1171:PRO:HA	1:A:1191:ARG:HG2	1.99	0.45
1:A:1581:PHE:HB2	1:A:1586:LEU:HD22	1.99	0.45
1:A:207:MET:HG3	1:A:292:VAL:HB	1.98	0.45
1:A:475:LEU:HA	1:A:475:LEU:HD23	1.79	0.45
1:B:1612:GLY:N	1:B:1623:PHE:O	2.48	0.45
1:B:2800:PHE:CE1	1:B:2812:LEU:HD22	2.50	0.45
1:B:746:TYR:HB2	1:B:833:ALA:HB1	1.99	0.45
1:C:1247:ASN:HA	1:C:1248:PRO:HD3	1.83	0.45
1:C:1268:GLY:HA2	1:C:1271:LEU:HD12	1.99	0.45
1:C:1634:ARG:NH1	1:C:1639:ALA:N	2.65	0.45
1:C:2086:SER:HA	1:C:2089:PHE:CG	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2769:ASP:OD1	1:C:2770:LEU:N	2.49	0.45
1:C:745:THR:OG1	1:C:834:GLU:O	2.19	0.45
1:D:1684:ASP:HA	1:D:1687:PHE:HD2	1.82	0.45
1:D:2672:TRP:CD1	1:D:2831:MET:HG2	2.52	0.45
1:D:2889:ILE:HD11	1:D:2922:LEU:HD22	1.98	0.45
1:E:1226:ARG:CG	1:E:1313:VAL:HG12	2.47	0.45
1:E:1483:LYS:O	1:E:1487:ILE:HG23	2.17	0.45
1:E:1702:GLU:OE1	1:E:1712:ALA:N	2.49	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:207:MET:HG3	1:E:292:VAL:HB	1.98	0.45
1:E:336:TRP:CH2	1:E:360:LEU:HD21	2.52	0.45
1:E:585:HIS:CB	1:E:694:ASP:HB2	2.47	0.45
1:F:1133:VAL:O	1:F:1193:ALA:N	2.42	0.45
1:F:2672:TRP:CD1	1:F:2831:MET:HG2	2.52	0.45
1:F:2879:LEU:HD13	1:F:3009:VAL:HG11	1.98	0.45
1:A:2770:LEU:HB3	1:A:2815:GLN:HB3	1.97	0.44
1:F:2724:GLN:HG2	1:A:3001:HIS:CE1	2.51	0.44
1:A:336:TRP:CH2	1:A:360:LEU:HD21	2.52	0.44
1:B:2957:PRO:HB3	1:B:2979:GLU:C	2.37	0.44
1:B:2958:ASN:HD22	1:B:2976:TRP:HE1	1.65	0.44
1:B:534:ASP:O	1:B:538:GLU:HG3	2.16	0.44
1:C:1226:ARG:CG	1:C:1313:VAL:HG12	2.47	0.44
1:C:1325:LEU:HD11	1:C:1343:LEU:HD22	1.98	0.44
1:C:1553:ALA:O	1:C:1557:GLU:HG2	2.17	0.44
1:C:1684:ASP:HA	1:C:1687:PHE:HD2	1.82	0.44
1:C:2472:TYR:CZ	1:C:2930:LEU:HD22	2.52	0.44
1:C:2555:SER:HA	1:C:2556:PRO:HD2	1.85	0.44
1:D:2092:THR:O	1:D:2092:THR:CG2	2.64	0.44
1:D:2300:PHE:CZ	1:D:2398:LEU:HB3	2.52	0.44
1:E:111:GLU:HB2	1:E:112:PRO:HD3	1.98	0.44
1:E:1581:PHE:HB2	1:E:1586:LEU:HD22	1.99	0.44
1:F:2246:ALA:N	1:F:2255:ARG:HH12	2.16	0.44
1:A:1634:ARG:NH1	1:A:1639:ALA:H	2.11	0.44
1:A:195:ARG:NH1	1:A:198:ILE:HD12	2.31	0.44
1:A:2246:ALA:N	1:A:2255:ARG:HH12	2.15	0.44
1:F:2737:VAL:HG12	1:A:2716:ASN:OD1	2.16	0.44
1:A:540:ASN:ND2	1:A:544:ILE:HG13	2.30	0.44
1:A:664:LEU:HB3	1:A:701:ALA:HB1	1.99	0.44
1:B:1133:VAL:O	1:B:1193:ALA:N	2.42	0.44
1:B:1284:GLY:HA2	1:B:1343:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2070:LEU:O	1:B:2074:GLU:HG3	2.16	0.44
1:B:2096:VAL:HG13	1:B:2097:ALA:H	1.80	0.44
1:B:2209:LEU:O	1:B:2213:VAL:HG23	2.18	0.44
1:B:2300:PHE:CZ	1:B:2398:LEU:HB3	2.52	0.44
1:B:763:SER:HB3	1:B:766:ASP:HB2	1.99	0.44
1:C:2770:LEU:HB3	1:C:2815:GLN:HB3	1.97	0.44
1:D:1488:VAL:HB	1:D:1579:VAL:HG22	1.99	0.44
1:D:1519:VAL:HG13	1:D:1530:LEU:HD23	1.98	0.44
1:D:1581:PHE:HB2	1:D:1586:LEU:HD22	1.99	0.44
1:D:2058:ASP:N	1:D:2058:ASP:OD1	2.46	0.44
1:D:2086:SER:HA	1:D:2089:PHE:CG	2.52	0.44
1:D:2879:LEU:HD13	1:D:3009:VAL:HG11	1.98	0.44
1:D:2891:LYS:HZ2	1:D:2903:GLU:HG2	1.83	0.44
1:D:763:SER:HB3	1:D:766:ASP:HB2	1.99	0.44
1:E:1093:PRO:HB3	1:E:1277:HIS:CE1	2.52	0.44
1:E:1304:LYS:O	1:E:1307:ASP:HB2	2.16	0.44
1:E:2092:THR:O	1:E:2092:THR:CG2	2.64	0.44
1:E:2234:PRO:HB2	1:E:2287:LEU:HD13	1.98	0.44
1:E:2831:MET:HE2	1:E:2831:MET:HB3	1.87	0.44
1:E:393:VAL:HG12	1:E:394:PRO:N	2.32	0.44
1:E:768:LYS:HA	1:E:775:LEU:HD11	1.98	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
1:F:1284:GLY:HA2	1:F:1343:LEU:HD11	1.99	0.44
1:F:1581:PHE:HB2	1:F:1586:LEU:HD22	1.99	0.44
1:F:2296:ASN:HB3	1:F:2299:MET:SD	2.57	0.44
1:F:2610:ARG:NH1	1:F:2700:LEU:HD21	2.31	0.44
1:F:2472:TYR:CZ	1:F:2930:LEU:HD22	2.52	0.44
1:F:746:TYR:HB2	1:F:833:ALA:HB1	1.99	0.44
1:A:1226:ARG:CG	1:A:1313:VAL:HG12	2.47	0.44
1:A:163:LEU:HD13	1:A:181:LEU:HD23	2.00	0.44
1:A:2234:PRO:HB2	1:A:2287:LEU:HD13	1.98	0.44
1:A:2462:VAL:HG13	1:A:2835:VAL:HG13	2.00	0.44
1:A:2903:GLU:OE2	1:A:2995:THR:OG1	2.36	0.44
1:A:746:TYR:HB2	1:A:833:ALA:HB1	1.99	0.44
1:A:745:THR:OG1	1:A:834:GLU:O	2.19	0.44
1:B:996:LEU:HA	1:B:1010:LEU:HA	1.98	0.44
1:B:1488:VAL:HB	1:B:1579:VAL:HG22	1.99	0.44
1:B:1619:VAL:HA	1:B:1620:PRO:HD2	1.80	0.44
1:B:1684:ASP:HA	1:B:1687:PHE:HD2	1.82	0.44
1:C:1483:LYS:O	1:C:1487:ILE:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1519:VAL:HG13	1:C:1530:LEU:HD23	1.99	0.44
1:C:1580:PRO:O	1:C:1583:SER:OG	2.22	0.44
1:C:1605:LYS:H	1:C:1658:LYS:HE2	1.82	0.44
1:C:2212:TRP:HA	1:C:2229:LYS:HB3	1.98	0.44
1:D:2212:TRP:HA	1:D:2229:LYS:HB3	1.98	0.44
1:D:2702:GLY:HA3	1:C:2557:LEU:CG	2.46	0.44
1:E:1519:VAL:HG13	1:E:1530:LEU:HD23	1.98	0.44
1:E:2472:TYR:CZ	1:E:2930:LEU:HD22	2.52	0.44
1:F:1455:VAL:HB	1:F:1480:ARG:HH12	1.80	0.44
1:F:2769:ASP:OD1	1:F:2770:LEU:N	2.49	0.44
1:F:511:ARG:CB	1:F:540:ASN:HB2	2.46	0.44
1:F:763:SER:HB3	1:F:766:ASP:HB2	1.99	0.44
1:A:1072:TRP:HE1	1:A:1077:VAL:HG22	1.80	0.44
1:A:2092:THR:O	1:A:2092:THR:CG2	2.64	0.44
1:A:2672:TRP:CD1	1:A:2831:MET:HG2	2.52	0.44
1:A:747:LEU:HD22	1:A:751:ARG:CZ	2.47	0.44
1:A:784:GLU:OE2	1:A:816:LEU:HD21	2.16	0.44
1:A:936:ARG:O	1:A:941:ARG:N	2.45	0.44
1:B:1352:PHE:HA	1:B:1353:PRO:HD3	1.72	0.44
1:B:1581:PHE:HB2	1:B:1586:LEU:HD22	1.99	0.44
1:B:2246:ALA:N	1:B:2255:ARG:HH12	2.16	0.44
1:B:2903:GLU:OE2	1:B:2995:THR:OG1	2.36	0.44
1:B:747:LEU:HD22	1:B:751:ARG:CZ	2.47	0.44
1:C:1093:PRO:HB3	1:C:1277:HIS:CE1	2.52	0.44
1:C:2462:VAL:HG13	1:C:2835:VAL:HG13	2.00	0.44
1:C:550:LYS:HD3	1:C:577:GLU:OE2	2.17	0.44
1:D:1634:ARG:NH1	1:D:1639:ALA:N	2.65	0.44
1:D:2462:VAL:HG13	1:D:2835:VAL:HG13	2.00	0.44
1:D:2891:LYS:HG3	1:D:2924:ILE:HD13	1.98	0.44
1:E:1285:LYS:HB3	1:E:1286:PRO:HD2	1.99	0.44
1:E:1350:TYR:CD1	1:E:1703:ILE:HD11	2.53	0.44
1:E:1352:PHE:HA	1:E:1353:PRO:HD3	1.72	0.44
1:E:163:LEU:HD13	1:E:181:LEU:HD23	2.00	0.44
1:E:2879:LEU:HD13	1:E:3009:VAL:HG11	1.98	0.44
1:F:1037:ASP:HB2	1:F:1041:ALA:CB	2.36	0.44
1:F:1093:PRO:HB3	1:F:1277:HIS:CE1	2.52	0.44
1:F:2958:ASN:HD22	1:F:2976:TRP:HE1	1.65	0.44
1:F:782:ARG:NH1	1:F:857:VAL:HG22	2.33	0.44
1:A:1634:ARG:NH1	1:A:1639:ALA:N	2.65	0.44
1:A:1350:TYR:CD1	1:A:1703:ILE:HD11	2.53	0.44
1:A:222:LEU:HD13	1:A:248:ILE:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2252:VAL:HG22	1:A:2255:ARG:HH21	1.82	0.44
1:A:2471:PRO:HA	1:A:2625:ILE:HA	2.00	0.44
1:A:2753:LYS:HA	1:A:2753:LYS:HD3	1.83	0.44
1:A:2452:ASP:HA	1:A:3017:ALA:HA	1.99	0.44
1:B:438:THR:HA	1:B:880:HIS:CE1	2.51	0.44
1:B:515:ALA:HA	1:B:516:PRO:HD3	1.84	0.44
1:C:1350:TYR:CD1	1:C:1703:ILE:HD11	2.53	0.44
1:C:1503:ILE:HB	1:C:1542:TYR:HB2	2.00	0.44
1:C:1723:GLU:O	1:C:1725:SER:N	2.51	0.44
1:C:2889:ILE:HD11	1:C:2922:LEU:HD22	1.98	0.44
1:C:2879:LEU:HD13	1:C:3009:VAL:HG11	1.98	0.44
1:C:336:TRP:CH2	1:C:360:LEU:HD21	2.52	0.44
1:C:88:SER:HB3	1:C:314:THR:OG1	2.18	0.44
1:D:1503:ILE:HB	1:D:1542:TYR:HB2	2.00	0.44
1:D:2014:SER:H	1:E:2591:ARG:HH12	1.66	0.44
1:D:2246:ALA:N	1:D:2255:ARG:HH12	2.16	0.44
1:D:782:ARG:NH1	1:D:857:VAL:HG22	2.33	0.44
1:E:412:ASP:H	1:E:1025:VAL:CG2	2.31	0.44
1:E:1462:ALA:HB2	1:E:1468:TYR:HE1	1.81	0.44
1:E:381:ARG:O	1:E:384:GLN:HG2	2.17	0.44
1:E:782:ARG:NH1	1:E:857:VAL:HG22	2.33	0.44
1:F:575:HIS:CD2	1:F:644:LEU:HD22	2.49	0.44
1:F:970:ILE:HG23	1:F:992:THR:HG21	2.00	0.44
1:A:1268:GLY:HA2	1:A:1271:LEU:HD12	1.99	0.44
1:A:1285:LYS:HB3	1:A:1286:PRO:HD2	1.99	0.44
1:A:1605:LYS:H	1:A:1658:LYS:HE2	1.82	0.44
1:A:782:ARG:NH1	1:A:857:VAL:HG22	2.33	0.44
1:A:868:ARG:HD3	1:A:872:ARG:HH12	1.81	0.44
1:B:1171:PRO:HA	1:B:1191:ARG:HG2	1.99	0.44
1:B:1350:TYR:CD1	1:B:1703:ILE:HD11	2.53	0.44
1:B:1705:VAL:O	1:B:1735:GLU:HB2	2.18	0.44
1:B:210:VAL:HG22	1:B:287:PHE:HD1	1.82	0.44
1:B:2296:ASN:HB3	1:B:2299:MET:SD	2.57	0.44
1:B:2580:PHE:HE1	1:B:2603:ARG:HH21	1.66	0.44
1:B:336:TRP:CH2	1:B:360:LEU:HD21	2.52	0.44
1:C:1581:PHE:HB2	1:C:1586:LEU:HD22	1.99	0.44
1:A:2591:ARG:HH12	1:C:2014:SER:H	1.65	0.44
1:C:2252:VAL:HG22	1:C:2255:ARG:HH21	1.82	0.44
1:C:2710:LEU:O	1:C:2713:VAL:HG22	2.18	0.44
1:D:2580:PHE:HE1	1:D:2603:ARG:HH21	1.66	0.44
1:D:2471:PRO:HA	1:D:2625:ILE:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2845:PHE:CD2	1:E:2860:ALA:HA	2.52	0.44
1:E:47:ALA:O	1:E:353:ASP:HA	2.17	0.44
1:F:1072:TRP:HE1	1:F:1077:VAL:HG22	1.80	0.44
1:F:1723:GLU:O	1:F:1725:SER:N	2.51	0.44
1:F:222:LEU:HD13	1:F:248:ILE:HD12	1.99	0.44
1:E:2014:SER:H	1:F:2591:ARG:HH12	1.65	0.44
1:F:671:THR:HB	1:F:682:ASN:CG	2.38	0.44
1:A:1488:VAL:HB	1:A:1579:VAL:HG22	1.99	0.44
1:A:1519:VAL:HG13	1:A:1530:LEU:HD23	1.98	0.44
1:A:2845:PHE:CD2	1:A:2860:ALA:HA	2.52	0.44
1:A:210:VAL:HG22	1:A:287:PHE:HD1	1.83	0.44
1:A:816:LEU:HA	1:A:816:LEU:HD23	1.83	0.44
1:B:412:ASP:H	1:B:1025:VAL:CG2	2.31	0.44
1:B:1605:LYS:H	1:B:1658:LYS:HE2	1.82	0.44
1:B:1723:GLU:O	1:B:1725:SER:N	2.51	0.44
1:B:2297:ARG:HH22	1:B:2391:LYS:HZ3	1.66	0.44
1:A:2014:SER:H	1:B:2591:ARG:HH12	1.66	0.44
1:B:583:GLY:HA2	1:B:892:ILE:HD13	2.00	0.44
1:B:585:HIS:CB	1:B:694:ASP:HB2	2.47	0.44
1:B:602:ARG:NH2	1:B:641:ASP:OD1	2.27	0.44
1:B:782:ARG:NH1	1:B:857:VAL:HG22	2.33	0.44
1:C:2471:PRO:HA	1:C:2625:ILE:HA	2.00	0.44
1:B:2014:SER:N	1:C:2591:ARG:NH1	2.66	0.44
1:C:583:GLY:HA2	1:C:892:ILE:HD13	1.99	0.44
1:C:671:THR:HB	1:C:682:ASN:CG	2.38	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:1537:LEU:HD13	1:D:1541:GLN:HB2	2.00	0.44
1:D:664:LEU:HB3	1:D:701:ALA:HB1	1.99	0.44
1:E:1268:GLY:HA2	1:E:1271:LEU:HD12	1.99	0.44
1:E:1488:VAL:HB	1:E:1579:VAL:HG22	1.99	0.44
1:E:2471:PRO:HA	1:E:2625:ILE:HA	2.00	0.44
1:E:438:THR:HA	1:E:880:HIS:CE1	2.51	0.44
1:E:763:SER:HB3	1:E:766:ASP:HB2	1.99	0.44
1:F:412:ASP:H	1:F:1025:VAL:CG2	2.31	0.44
1:F:163:LEU:HD13	1:F:181:LEU:HD23	2.00	0.44
1:D:2591:ARG:NH1	1:F:2014:SER:N	2.66	0.44
1:F:2209:LEU:O	1:F:2213:VAL:HG23	2.18	0.44
1:F:2831:MET:HB3	1:F:2831:MET:HE2	1.87	0.44
1:F:88:SER:HB3	1:F:314:THR:OG1	2.18	0.44
1:F:381:ARG:O	1:F:384:GLN:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:657:THR:HB	1:F:662:LYS:HE3	2.00	0.44
1:A:412:ASP:H	1:A:1025:VAL:CG2	2.31	0.44
1:A:2472:TYR:CZ	1:A:2930:LEU:HD22	2.52	0.44
1:F:2737:VAL:N	1:A:2735:HIS:O	2.51	0.44
1:B:2845:PHE:CD2	1:B:2860:ALA:HA	2.52	0.44
1:B:2014:SER:H	1:C:2591:ARG:HH12	1.65	0.44
1:C:344:HIS:CD2	1:C:373:ILE:HG13	2.53	0.44
1:C:970:ILE:HG23	1:C:992:THR:HG21	2.00	0.44
1:D:1605:LYS:H	1:D:1658:LYS:HE2	1.82	0.44
1:D:2452:ASP:HA	1:D:3017:ALA:HA	1.99	0.44
1:D:516:PRO:HA	1:D:962:MET:SD	2.58	0.44
1:E:1695:LEU:HA	1:E:1695:LEU:HD12	1.71	0.44
1:D:2014:SER:N	1:E:2591:ARG:NH1	2.66	0.44
1:E:671:THR:HB	1:E:682:ASN:CG	2.38	0.44
1:E:747:LEU:HD22	1:E:751:ARG:CZ	2.47	0.44
1:F:1462:ALA:HB2	1:F:1468:TYR:HE1	1.81	0.44
1:F:1684:ASP:HA	1:F:1687:PHE:HD2	1.82	0.44
1:F:1350:TYR:CD1	1:F:1703:ILE:HD11	2.53	0.44
1:F:1705:VAL:O	1:F:1735:GLU:HB2	2.18	0.44
1:F:2541:ARG:O	1:F:2621:VAL:HG13	2.18	0.44
1:A:1537:LEU:HD13	1:A:1541:GLN:HB2	2.00	0.44
1:A:1723:GLU:O	1:A:1725:SER:N	2.51	0.44
1:A:550:LYS:HD3	1:A:577:GLU:OE2	2.17	0.44
1:A:671:THR:HB	1:A:682:ASN:CG	2.38	0.44
1:A:763:SER:HB3	1:A:766:ASP:HB2	1.99	0.44
1:A:857:VAL:HG13	1:A:859:PHE:H	1.83	0.44
1:A:583:GLY:HA2	1:A:892:ILE:HD13	2.00	0.44
1:B:1503:ILE:HB	1:B:1542:TYR:HB2	2.00	0.44
1:B:222:LEU:HD13	1:B:248:ILE:HD12	1.99	0.44
1:B:88:SER:HB3	1:B:314:THR:OG1	2.18	0.44
1:B:657:THR:HB	1:B:662:LYS:HE3	2.00	0.44
1:B:782:ARG:HH11	1:B:857:VAL:HG22	1.83	0.44
1:C:1537:LEU:HD13	1:C:1541:GLN:HB2	2.00	0.44
1:C:1450:ALA:N	1:C:1613:ARG:O	2.48	0.44
1:C:782:ARG:NH1	1:C:857:VAL:HG22	2.33	0.44
1:C:816:LEU:HA	1:C:816:LEU:HD23	1.83	0.44
1:D:1723:GLU:O	1:D:1725:SER:N	2.51	0.44
1:D:412:ASP:H	1:D:1025:VAL:CG2	2.31	0.44
1:D:475:LEU:HA	1:D:475:LEU:HD23	1.79	0.44
1:D:671:THR:HB	1:D:682:ASN:CG	2.38	0.44
1:D:931:VAL:HG13	1:D:934:LEU:N	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1072:TRP:HE1	1:E:1077:VAL:HG22	1.80	0.44
1:E:1503:ILE:HB	1:E:1542:TYR:HB2	2.00	0.44
1:E:745:THR:OG1	1:E:834:GLU:O	2.19	0.44
1:F:1352:PHE:HA	1:F:1353:PRO:HD3	1.72	0.44
1:F:2252:VAL:HG22	1:F:2255:ARG:HH21	1.82	0.44
1:F:2554:ALA:HB1	1:F:2614:LYS:HZ2	1.81	0.44
1:A:1503:ILE:HB	1:A:1542:TYR:HB2	2.00	0.43
1:A:1551:LEU:HA	1:A:1551:LEU:HD13	1.79	0.43
1:A:1684:ASP:HA	1:A:1687:PHE:HD2	1.82	0.43
1:A:344:HIS:CD2	1:A:373:ILE:HG13	2.53	0.43
1:A:516:PRO:HA	1:A:962:MET:SD	2.58	0.43
1:A:874:ASP:OD2	1:A:877:TRP:CD1	2.71	0.43
1:A:2014:SER:N	1:B:2591:ARG:HH12	2.16	0.43
1:B:2831:MET:HE2	1:B:2831:MET:HB3	1.87	0.43
1:B:351:ILE:HB	1:B:375:ILE:HG12	1.99	0.43
1:A:2591:ARG:HH12	1:C:2014:SER:N	2.16	0.43
1:C:2246:ALA:N	1:C:2255:ARG:HH12	2.15	0.43
1:C:2296:ASN:HB3	1:C:2299:MET:SD	2.57	0.43
1:C:34:LEU:O	1:C:38:LEU:HG	2.18	0.43
1:C:874:ASP:OD2	1:C:877:TRP:CD1	2.72	0.43
1:D:1171:PRO:HA	1:D:1191:ARG:HG2	1.99	0.43
1:D:1582:HIS:HA	1:D:1674:ALA:O	2.18	0.43
1:D:2296:ASN:HB3	1:D:2299:MET:SD	2.57	0.43
1:D:3044:ALA:HB1	1:D:3050:PRO:HB3	2.00	0.43
1:D:970:ILE:HG23	1:D:992:THR:HG21	2.00	0.43
1:E:2180:LYS:HZ1	1:E:2962:ASP:HB3	1.83	0.43
1:E:2710:LEU:O	1:E:2713:VAL:HG22	2.18	0.43
1:F:1285:LYS:HB3	1:F:1286:PRO:HD2	1.99	0.43
1:F:2299:MET:HG2	1:F:2299:MET:H	1.68	0.43
1:F:2361:VAL:HG21	1:F:2401:ILE:HD11	1.98	0.43
1:F:2580:PHE:HE1	1:F:2603:ARG:HH21	1.66	0.43
1:F:2710:LEU:O	1:F:2713:VAL:HG22	2.18	0.43
1:F:3044:ALA:HB1	1:F:3050:PRO:HB3	2.00	0.43
1:F:959:ALA:HB1	1:F:1126:ILE:C	2.35	0.43
1:A:2300:PHE:CZ	1:A:2398:LEU:HB3	2.52	0.43
1:A:2958:ASN:HD22	1:A:2976:TRP:HE1	1.65	0.43
1:A:398:ARG:HA	1:A:399:PRO:HD2	1.86	0.43
1:A:782:ARG:HH11	1:A:857:VAL:HG22	1.83	0.43
1:B:1733:ASN:H	1:B:1737:ASP:HB2	1.83	0.43
1:B:516:PRO:HA	1:B:962:MET:SD	2.58	0.43
1:C:2452:ASP:HA	1:C:3017:ALA:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2958:ASN:HD22	1:C:2976:TRP:HE1	1.65	0.43
1:C:3044:ALA:HB1	1:C:3050:PRO:HB3	2.00	0.43
1:C:516:PRO:HA	1:C:962:MET:SD	2.58	0.43
1:C:695:ILE:HG22	1:C:697:GLU:HG3	2.00	0.43
1:D:2334:HIS:CD2	1:D:2391:LYS:HG3	2.50	0.43
1:E:1537:LEU:HD13	1:E:1541:GLN:HB2	2.00	0.43
1:E:2115:HIS:HA	1:E:2118:LEU:CG	2.48	0.43
1:E:695:ILE:HG22	1:E:697:GLU:HG3	2.00	0.43
1:F:2334:HIS:CD2	1:F:2391:LYS:HG3	2.50	0.43
1:F:2735:HIS:O	1:A:2737:VAL:N	2.51	0.43
1:F:344:HIS:CD2	1:F:373:ILE:HG13	2.53	0.43
1:F:958:TRP:HZ3	1:F:1130:LEU:HB2	1.83	0.43
1:A:2096:VAL:HG23	1:A:2097:ALA:H	1.80	0.43
1:B:1268:GLY:HA2	1:B:1271:LEU:HD12	1.99	0.43
1:B:163:LEU:HD13	1:B:181:LEU:HD23	2.00	0.43
1:D:2032:VAL:HG11	1:B:2032:VAL:HG11	2.01	0.43
1:B:3044:ALA:HB1	1:B:3050:PRO:HB3	2.00	0.43
1:B:544:ILE:O	1:B:546:HIS:N	2.40	0.43
1:B:671:THR:HB	1:B:682:ASN:CG	2.38	0.43
1:C:2334:HIS:CD2	1:C:2391:LYS:HG3	2.50	0.43
1:C:2297:ARG:HH22	1:C:2391:LYS:HZ3	1.64	0.43
1:C:2903:GLU:OE2	1:C:2995:THR:OG1	2.36	0.43
1:C:2891:LYS:HG3	1:C:2924:ILE:HD13	1.98	0.43
1:C:315:VAL:C	1:C:317:LEU:H	2.22	0.43
1:D:1705:VAL:O	1:D:1735:GLU:HB2	2.18	0.43
1:D:2115:HIS:HA	1:D:2118:LEU:CG	2.49	0.43
1:E:1317:GLY:O	1:E:1324:VAL:HG12	2.19	0.43
1:E:1705:VAL:O	1:E:1735:GLU:HB2	2.18	0.43
1:E:1733:ASN:H	1:E:1737:ASP:HB2	1.83	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:88:SER:HB3	1:E:314:THR:OG1	2.18	0.43
1:E:344:HIS:CD2	1:E:373:ILE:HG13	2.53	0.43
1:E:351:ILE:HB	1:E:375:ILE:HG12	1.99	0.43
1:F:1637:VAL:HA	1:F:1638:PRO:HD2	1.90	0.43
1:F:2462:VAL:HG13	1:F:2835:VAL:HG13	2.00	0.43
1:F:393:VAL:HG12	1:F:394:PRO:N	2.32	0.43
1:F:583:GLY:HA2	1:F:892:ILE:HD13	1.99	0.43
1:F:276:LYS:HB3	1:F:587:TRP:CH2	2.53	0.43
1:A:1582:HIS:HA	1:A:1674:ALA:O	2.18	0.43
1:A:2591:ARG:NH1	1:C:2014:SER:N	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2710:LEU:O	1:A:2713:VAL:HG22	2.18	0.43
1:A:34:LEU:O	1:A:38:LEU:HG	2.19	0.43
1:A:351:ILE:HB	1:A:375:ILE:HG12	1.99	0.43
1:A:658:SER:HB2	1:A:661:VAL:HG23	2.01	0.43
1:A:657:THR:HB	1:A:662:LYS:HE3	2.00	0.43
1:B:2296:ASN:ND2	1:B:2395:THR:HG21	2.34	0.43
1:E:2737:VAL:N	1:B:2735:HIS:O	2.51	0.43
1:B:315:VAL:C	1:B:317:LEU:H	2.22	0.43
1:B:575:HIS:CD2	1:B:644:LEU:HD22	2.49	0.43
1:B:647:THR:N	2:B:4000:FMN:O3P	2.51	0.43
1:B:658:SER:HB2	1:B:661:VAL:HG23	2.01	0.43
1:B:874:ASP:OD2	1:B:877:TRP:CD1	2.72	0.43
1:C:1504:ARG:HA	1:C:1540:SER:O	2.19	0.43
1:C:1660:LEU:HA	1:C:1660:LEU:HD23	1.86	0.43
1:C:2209:LEU:O	1:C:2213:VAL:HG23	2.17	0.43
1:C:369:ARG:HA	1:C:369:ARG:HD2	1.85	0.43
1:C:647:THR:N	2:C:4000:FMN:O3P	2.51	0.43
1:C:857:VAL:HG13	1:C:859:PHE:H	1.83	0.43
1:D:1483:LYS:O	1:D:1487:ILE:HG23	2.17	0.43
1:D:2958:ASN:HD22	1:D:2976:TRP:HE1	1.65	0.43
1:D:782:ARG:HH11	1:D:857:VAL:HG22	1.83	0.43
1:D:874:ASP:OD2	1:D:877:TRP:CD1	2.72	0.43
1:E:1013:THR:CG2	1:E:1014:TRP:H	1.96	0.43
1:E:2209:LEU:O	1:E:2213:VAL:HG23	2.18	0.43
1:E:2252:VAL:HG22	1:E:2255:ARG:HH21	1.82	0.43
1:E:34:LEU:O	1:E:38:LEU:HG	2.18	0.43
1:F:1634:ARG:NH1	1:F:1639:ALA:H	2.11	0.43
1:F:2092:THR:O	1:F:2092:THR:CG2	2.64	0.43
1:F:2903:GLU:OE2	1:F:2995:THR:OG1	2.36	0.43
1:F:336:TRP:CH2	1:F:360:LEU:HD21	2.52	0.43
1:F:513:SER:HB3	1:F:961:ARG:NH1	2.33	0.43
1:A:2209:LEU:O	1:A:2213:VAL:HG23	2.18	0.43
1:A:393:VAL:HG12	1:A:394:PRO:N	2.32	0.43
1:A:695:ILE:HG22	1:A:697:GLU:HG3	2.01	0.43
1:A:2014:SER:N	1:B:2591:ARG:NH1	2.66	0.43
1:E:2735:HIS:O	1:B:2737:VAL:N	2.51	0.43
1:B:341:THR:HG23	1:B:344:HIS:ND1	2.34	0.43
1:B:511:ARG:CB	1:B:540:ASN:HB2	2.46	0.43
1:F:2032:VAL:HG11	1:C:2032:VAL:HG11	2.00	0.43
1:C:658:SER:HB2	1:C:661:VAL:HG23	2.00	0.43
1:D:1317:GLY:O	1:D:1324:VAL:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1733:ASN:H	1:D:1737:ASP:HB2	1.83	0.43
1:D:583:GLY:HA2	1:D:892:ILE:HD13	2.00	0.43
1:D:658:SER:HB2	1:D:661:VAL:HG23	2.00	0.43
1:E:2541:ARG:O	1:E:2621:VAL:HG13	2.18	0.43
1:E:2452:ASP:HA	1:E:3017:ALA:HA	1.99	0.43
1:E:647:THR:N	2:E:4000:FMN:O3P	2.51	0.43
1:E:657:THR:HB	1:E:662:LYS:HE3	2.00	0.43
1:F:1605:LYS:H	1:F:1658:LYS:HE2	1.82	0.43
1:F:210:VAL:HG22	1:F:287:PHE:HD1	1.82	0.43
1:F:2137:GLU:O	1:F:2163:THR:N	2.30	0.43
1:F:2512:TRP:O	1:F:2520:LEU:HD12	2.19	0.43
1:E:2014:SER:N	1:F:2591:ARG:NH1	2.66	0.43
1:A:1733:ASN:H	1:A:1737:ASP:HB2	1.83	0.43
1:A:647:THR:N	2:A:4000:FMN:O3P	2.51	0.43
1:A:580:ARG:HD3	1:A:896:ALA:HB3	2.01	0.43
1:B:1504:ARG:HA	1:B:1540:SER:O	2.19	0.43
1:B:1582:HIS:HA	1:B:1674:ALA:O	2.18	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:2710:LEU:O	1:B:2713:VAL:HG22	2.18	0.43
1:B:2891:LYS:HZ1	1:B:2903:GLU:HB3	1.84	0.43
1:B:34:LEU:O	1:B:38:LEU:HG	2.18	0.43
1:B:695:ILE:HG22	1:B:697:GLU:HG3	2.01	0.43
1:C:1117:ALA:HA	1:C:1120:GLU:HB2	2.01	0.43
1:C:1163:ASP:HA	1:C:1168:ARG:HA	2.01	0.43
1:C:2512:TRP:O	1:C:2520:LEU:HD12	2.19	0.43
1:C:2610:ARG:NH1	1:C:2700:LEU:HD11	2.25	0.43
1:D:2748:GLU:HG2	1:C:2753:LYS:HZ2	1.81	0.43
1:C:341:THR:HG23	1:C:344:HIS:ND1	2.34	0.43
1:C:412:ASP:H	1:C:1025:VAL:CG2	2.31	0.43
1:C:782:ARG:HH11	1:C:857:VAL:HG22	1.83	0.43
1:D:1163:ASP:HA	1:D:1168:ARG:HA	2.01	0.43
1:D:1504:ARG:HA	1:D:1540:SER:O	2.19	0.43
1:D:2209:LEU:O	1:D:2213:VAL:HG23	2.18	0.43
1:D:683:GLY:CA	1:D:700:ASN:HB2	2.44	0.43
1:D:580:ARG:HD3	1:D:896:ALA:HB3	2.01	0.43
1:E:1087:PHE:HD2	1:F:117:LYS:HZ1	1.66	0.43
1:E:1084:THR:CG2	1:E:1274:ALA:HA	2.48	0.43
1:E:1582:HIS:HA	1:E:1674:ALA:O	2.18	0.43
1:E:516:PRO:HA	1:E:962:MET:SD	2.58	0.43
1:E:746:TYR:HB2	1:E:833:ALA:HB1	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:856:PRO:HG2	1:E:874:ASP:HB2	2.00	0.43
1:E:580:ARG:HD3	1:E:896:ALA:HB3	2.01	0.43
1:F:2297:ARG:HH12	1:F:2391:LYS:NZ	2.17	0.43
1:F:2610:ARG:NH1	1:F:2700:LEU:HD11	2.25	0.43
1:F:351:ILE:HB	1:F:375:ILE:HG12	1.99	0.43
1:F:42:GLU:HA	1:F:43:PRO:HD3	1.91	0.43
1:F:658:SER:HB2	1:F:661:VAL:HG23	2.00	0.43
1:F:695:ILE:HG22	1:F:697:GLU:HG3	2.00	0.43
1:F:857:VAL:HG13	1:F:859:PHE:H	1.83	0.43
1:F:856:PRO:HG2	1:F:874:ASP:HB2	2.00	0.43
1:F:936:ARG:O	1:F:941:ARG:N	2.45	0.43
1:A:2088:ARG:C	1:A:2188:ARG:NH1	2.72	0.43
1:A:2115:HIS:HA	1:A:2118:LEU:CG	2.49	0.43
1:A:2706:PRO:O	1:A:2709:ILE:HG12	2.19	0.43
1:A:575:HIS:CD2	1:A:644:LEU:HD22	2.49	0.43
1:B:307:ILE:HG22	1:B:311:TRP:CE2	2.54	0.43
1:B:276:LYS:HB3	1:B:587:TRP:CH2	2.53	0.43
1:C:1582:HIS:HA	1:C:1674:ALA:O	2.18	0.43
1:C:2088:ARG:C	1:C:2188:ARG:NH1	2.72	0.43
1:C:2541:ARG:O	1:C:2621:VAL:HG13	2.18	0.43
1:C:2665:THR:HA	1:C:2666:PRO:HD3	1.86	0.43
1:C:340:ILE:HD11	1:C:351:ILE:HD13	2.00	0.43
1:E:1612:GLY:N	1:E:1623:PHE:O	2.48	0.43
1:E:1672:GLN:HE21	1:E:1672:GLN:HB3	1.58	0.43
1:E:1723:GLU:O	1:E:1725:SER:N	2.51	0.43
1:E:2246:ALA:N	1:E:2255:ARG:HH12	2.15	0.43
1:E:857:VAL:HG13	1:E:859:PHE:H	1.83	0.43
1:E:583:GLY:HA2	1:E:892:ILE:HD13	2.00	0.43
1:F:70:SER:HG	1:F:142:ARG:HH22	1.65	0.43
1:F:2810:GLY:HA2	1:F:2896:THR:HG22	2.01	0.43
1:A:2580:PHE:HE1	1:A:2603:ARG:HH21	1.66	0.43
1:F:2697:HIS:CD2	1:A:2700:LEU:HD22	2.43	0.43
1:B:2471:PRO:HA	1:B:2625:ILE:HA	2.00	0.43
1:B:857:VAL:HG13	1:B:859:PHE:H	1.83	0.43
1:C:1285:LYS:HB3	1:C:1286:PRO:HD2	1.99	0.43
1:C:210:VAL:HG22	1:C:287:PHE:HD1	1.83	0.43
1:C:2115:HIS:HA	1:C:2118:LEU:CG	2.49	0.43
1:C:2444:PRO:HB2	1:C:2988:PRO:HB3	2.01	0.43
1:C:2580:PHE:HE1	1:C:2603:ARG:HH21	1.66	0.43
1:C:2891:LYS:HZ2	1:C:2903:GLU:HG2	1.83	0.43
1:C:307:ILE:HG22	1:C:311:TRP:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:780:ARG:NH1	1:C:817:GLU:OE2	2.52	0.43
1:D:657:THR:HB	1:D:662:LYS:HE3	2.00	0.43
1:D:857:VAL:HG13	1:D:859:PHE:H	1.83	0.43
1:D:856:PRO:HG2	1:D:874:ASP:HB2	2.00	0.43
1:E:1163:ASP:HA	1:E:1168:ARG:HA	2.01	0.43
1:E:2088:ARG:C	1:E:2188:ARG:NH1	2.72	0.43
1:E:2462:VAL:HG13	1:E:2835:VAL:HG13	2.00	0.43
1:E:550:LYS:HD3	1:E:577:GLU:OE2	2.17	0.43
1:E:585:HIS:HD2	1:E:586:SER:H	1.62	0.43
1:E:276:LYS:HB3	1:E:587:TRP:CH2	2.53	0.43
1:F:1163:ASP:HA	1:F:1168:ARG:HA	2.01	0.43
1:F:1084:THR:CG2	1:F:1274:ALA:HA	2.48	0.43
1:F:1317:GLY:O	1:F:1324:VAL:HG12	2.19	0.43
1:F:1695:LEU:HA	1:F:1695:LEU:HD12	1.71	0.43
1:D:2591:ARG:HH12	1:F:2014:SER:N	2.16	0.43
1:F:2695:MET:HG3	1:F:2696:TYR:N	2.34	0.43
1:F:34:LEU:O	1:F:38:LEU:HG	2.19	0.43
1:F:647:THR:N	2:F:4000:FMN:O3P	2.51	0.43
1:F:580:ARG:HD3	1:F:896:ALA:HB3	2.01	0.43
1:A:856:PRO:HG2	1:A:874:ASP:HB2	2.00	0.43
1:B:1317:GLY:O	1:B:1324:VAL:HG12	2.19	0.43
1:B:2088:ARG:C	1:B:2188:ARG:NH1	2.72	0.43
1:B:2096:VAL:CG1	1:B:2097:ALA:N	2.82	0.43
1:B:2541:ARG:O	1:B:2621:VAL:HG13	2.18	0.43
1:B:344:HIS:CD2	1:B:373:ILE:HG13	2.53	0.43
1:B:664:LEU:HB3	1:B:701:ALA:HB1	1.99	0.43
1:C:163:LEU:HD13	1:C:181:LEU:HD23	2.00	0.43
1:D:2735:HIS:O	1:C:2737:VAL:N	2.51	0.43
1:D:1117:ALA:HA	1:D:1120:GLU:HB2	2.01	0.43
1:D:1133:VAL:N	1:D:1193:ALA:O	2.48	0.43
1:D:2296:ASN:ND2	1:D:2395:THR:HG21	2.34	0.43
1:D:2786:ASP:OD2	1:D:2789:MET:HG2	2.19	0.43
1:D:2810:GLY:HA2	1:D:2896:THR:HG22	2.01	0.43
1:D:695:ILE:HG22	1:D:697:GLU:HG3	2.01	0.43
1:E:2444:PRO:HB2	1:E:2988:PRO:HB3	2.01	0.43
1:F:1030:ALA:N	1:F:1031:PRO:CD	2.81	0.43
1:F:1117:ALA:HA	1:F:1120:GLU:HB2	2.01	0.43
1:F:1413:PRO:O	1:C:2328:GLU:OE1	2.36	0.43
1:F:1457:GLU:OE2	1:F:1614:TYR:OH	2.29	0.43
1:F:307:ILE:HG22	1:F:311:TRP:CE2	2.54	0.43
1:F:475:LEU:HD23	1:F:475:LEU:HA	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:664:LEU:HB3	1:F:701:ALA:HB1	1.99	0.43
1:F:874:ASP:OD2	1:F:877:TRP:CD1	2.72	0.43
1:A:2244:ARG:HG2	1:A:2245:VAL:N	2.34	0.43
1:A:2297:ARG:HH12	1:A:2391:LYS:NZ	2.17	0.43
1:A:3044:ALA:HB1	1:A:3050:PRO:HB3	2.00	0.43
1:A:340:ILE:HD11	1:A:351:ILE:HD13	2.01	0.43
1:A:438:THR:HA	1:A:880:HIS:CE1	2.51	0.43
1:A:780:ARG:NH1	1:A:817:GLU:OE2	2.52	0.43
1:B:1537:LEU:HD13	1:B:1541:GLN:HB2	2.00	0.43
1:B:2252:VAL:HG22	1:B:2255:ARG:HH21	1.82	0.43
1:B:2297:ARG:HH12	1:B:2391:LYS:NZ	2.17	0.43
1:B:2695:MET:HG3	1:B:2696:TYR:N	2.34	0.43
1:B:2810:GLY:HA2	1:B:2896:THR:HG22	2.01	0.43
1:B:2846:ALA:O	1:B:2859:GLY:HA3	2.19	0.43
1:C:2786:ASP:OD2	1:C:2789:MET:HG2	2.19	0.43
1:C:2810:GLY:HA2	1:C:2896:THR:HG22	2.01	0.43
1:C:393:VAL:O	1:C:395:GLU:N	2.52	0.43
1:C:78:GLU:HB2	1:C:176:VAL:HG21	2.01	0.43
1:C:709:LEU:HD21	1:C:872:ARG:NE	2.34	0.43
1:D:2088:ARG:C	1:D:2188:ARG:NH1	2.72	0.43
1:D:2252:VAL:HG22	1:D:2255:ARG:HH21	1.82	0.43
1:D:2706:PRO:O	1:D:2709:ILE:HG12	2.19	0.43
1:D:2710:LEU:O	1:D:2713:VAL:HG22	2.18	0.43
1:D:2903:GLU:OE2	1:D:2995:THR:OG1	2.36	0.43
1:D:647:THR:N	2:D:4000:FMN:O3P	2.51	0.43
1:D:885:GLU:HG2	1:D:887:ASP:H	1.84	0.43
1:E:2512:TRP:O	1:E:2520:LEU:HD12	2.19	0.43
1:E:2958:ASN:HD22	1:E:2976:TRP:HE1	1.65	0.43
1:E:307:ILE:HG22	1:E:311:TRP:CE2	2.54	0.43
1:E:340:ILE:HD11	1:E:351:ILE:HD13	2.01	0.43
1:E:42:GLU:HA	1:E:43:PRO:HD3	1.91	0.43
1:E:487:PHE:O	1:E:521:VAL:N	2.51	0.43
1:E:782:ARG:HH11	1:E:857:VAL:HG22	1.83	0.43
1:E:874:ASP:OD2	1:E:877:TRP:CD1	2.72	0.43
1:E:970:ILE:HG23	1:E:992:THR:HG21	2.00	0.43
1:F:2115:HIS:HA	1:F:2118:LEU:CG	2.49	0.43
1:F:2706:PRO:O	1:F:2709:ILE:HG12	2.19	0.43
1:A:203:ASP:OD2	1:C:1087:PHE:CZ	2.72	0.42
1:A:2096:VAL:CG2	1:A:2097:ALA:N	2.82	0.42
1:A:2334:HIS:CD2	1:A:2391:LYS:HG3	2.50	0.42
1:A:2452:ASP:CG	1:A:2453:LEU:N	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2541:ARG:O	1:A:2621:VAL:HG13	2.18	0.42
1:A:2836:LEU:HD23	1:A:2836:LEU:HA	1.87	0.42
1:A:2911:ALA:O	1:A:2916:ARG:HB2	2.19	0.42
1:A:544:ILE:C	1:A:546:HIS:H	2.22	0.42
1:A:276:LYS:HB3	1:A:587:TRP:CH2	2.53	0.42
1:B:1662:ARG:HG3	1:B:1663:LYS:N	2.34	0.42
1:A:1087:PHE:CZ	1:B:203:ASP:OD2	2.72	0.42
1:B:2462:VAL:HG13	1:B:2835:VAL:HG13	2.00	0.42
1:C:1705:VAL:O	1:C:1735:GLU:HB2	2.18	0.42
1:C:2092:THR:O	1:C:2092:THR:CG2	2.64	0.42
1:C:2889:ILE:HB	1:C:2924:ILE:HG12	2.01	0.42
1:D:1695:LEU:HD12	1:D:1695:LEU:HA	1.71	0.42
1:D:2014:SER:N	1:E:2591:ARG:HH12	2.16	0.42
1:D:2297:ARG:HH22	1:D:2391:LYS:HZ3	1.67	0.42
1:D:2299:MET:H	1:D:2299:MET:HG2	1.68	0.42
1:D:2444:PRO:HB2	1:D:2988:PRO:HB3	2.01	0.42
1:D:2541:ARG:O	1:D:2621:VAL:HG13	2.18	0.42
1:E:2014:SER:N	1:F:2591:ARG:HH12	2.16	0.42
1:E:2228:LEU:HA	1:E:2228:LEU:HD23	1.86	0.42
1:E:2296:ASN:ND2	1:E:2395:THR:HG21	2.34	0.42
1:E:2558:LEU:HD11	1:B:2610:ARG:HD2	2.01	0.42
1:E:2610:ARG:HD2	1:B:2558:LEU:HD11	2.01	0.42
1:E:2557:LEU:HB3	1:E:2613:ARG:HB2	2.01	0.42
1:E:2891:LYS:HZ2	1:E:2903:GLU:HG2	1.83	0.42
1:E:3044:ALA:HB1	1:E:3050:PRO:HB3	2.00	0.42
1:E:53:SER:HA	1:E:359:ILE:HG13	2.01	0.42
1:E:544:ILE:O	1:E:546:HIS:N	2.40	0.42
1:E:780:ARG:NH1	1:E:817:GLU:OE2	2.52	0.42
1:F:1412:HIS:HD2	1:F:1413:PRO:CD	2.31	0.42
1:F:1504:ARG:HA	1:F:1540:SER:O	2.19	0.42
1:F:1582:HIS:HA	1:F:1674:ALA:O	2.18	0.42
1:F:1733:ASN:H	1:F:1737:ASP:HB2	1.83	0.42
1:F:2471:PRO:HA	1:F:2625:ILE:HA	2.00	0.42
1:F:211:THR:HB	1:F:286:VAL:HB	2.01	0.42
1:F:2889:ILE:HB	1:F:2924:ILE:HG12	2.01	0.42
1:F:436:THR:OG1	1:F:437:PRO:HD3	2.19	0.42
1:A:1163:ASP:HA	1:A:1168:ARG:HA	2.01	0.42
1:A:1705:VAL:O	1:A:1735:GLU:HB2	2.18	0.42
1:A:211:THR:HB	1:A:286:VAL:HB	2.01	0.42
1:A:2512:TRP:O	1:A:2520:LEU:HD12	2.19	0.42
1:A:2530:TYR:O	1:A:2533:ALA:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2808:ARG:HH21	1:A:2901:PRO:HD3	1.85	0.42
1:A:2444:PRO:HB2	1:A:2988:PRO:HB3	2.01	0.42
1:A:88:SER:HB3	1:A:314:THR:OG1	2.18	0.42
1:A:544:ILE:O	1:A:546:HIS:N	2.41	0.42
1:B:1163:ASP:HA	1:B:1168:ARG:HA	2.01	0.42
1:B:780:ARG:NH1	1:B:817:GLU:OE2	2.52	0.42
1:B:856:PRO:HG2	1:B:874:ASP:HB2	2.00	0.42
1:B:580:ARG:HD3	1:B:896:ALA:HB3	2.01	0.42
1:B:970:ILE:HG23	1:B:992:THR:HG21	2.00	0.42
1:C:1672:GLN:HE21	1:C:1672:GLN:HB3	1.58	0.42
1:C:2428:PRO:O	1:C:2428:PRO:CG	2.67	0.42
1:C:2452:ASP:CG	1:C:2453:LEU:N	2.73	0.42
1:C:211:THR:HB	1:C:286:VAL:HB	2.01	0.42
1:C:45:ALA:O	1:C:351:ILE:HA	2.19	0.42
1:C:954:PRO:O	1:C:965:ASN:N	2.52	0.42
1:D:1662:ARG:HG3	1:D:1663:LYS:N	2.34	0.42
1:D:2737:VAL:N	1:C:2735:HIS:O	2.51	0.42
1:D:2911:ALA:O	1:D:2916:ARG:HB2	2.19	0.42
1:D:780:ARG:NH1	1:D:817:GLU:OE2	2.52	0.42
1:E:1662:ARG:HG3	1:E:1663:LYS:N	2.34	0.42
1:E:211:THR:HB	1:E:286:VAL:HB	2.01	0.42
1:E:2530:TYR:O	1:E:2533:ALA:N	2.52	0.42
1:E:2695:MET:HG3	1:E:2696:TYR:N	2.34	0.42
1:E:2706:PRO:O	1:E:2709:ILE:HG12	2.19	0.42
1:F:1537:LEU:HD13	1:F:1541:GLN:HB2	2.00	0.42
1:F:2557:LEU:HB3	1:F:2613:ARG:HB2	2.01	0.42
1:F:341:THR:HG23	1:F:344:HIS:ND1	2.34	0.42
1:A:1093:PRO:HB3	1:A:1277:HIS:CE1	2.52	0.42
1:B:1021:LEU:HB3	1:B:1034:GLU:HG2	2.01	0.42
1:B:107:LEU:HD13	1:B:113:VAL:HB	2.01	0.42
1:B:1084:THR:CG2	1:B:1274:ALA:HA	2.48	0.42
1:B:613:GLY:HA2	2:B:4000:FMN:O5'	2.19	0.42
1:B:885:GLU:HG2	1:B:887:ASP:H	1.84	0.42
1:C:2706:PRO:O	1:C:2709:ILE:HG12	2.19	0.42
1:C:856:PRO:HG2	1:C:874:ASP:HB2	2.00	0.42
1:D:1093:PRO:HB3	1:D:1277:HIS:CE1	2.52	0.42
1:D:2180:LYS:HZ1	1:D:2962:ASP:HB3	1.83	0.42
1:D:2297:ARG:HH12	1:D:2391:LYS:NZ	2.17	0.42
1:D:2889:ILE:HB	1:D:2924:ILE:HG12	2.01	0.42
1:E:1275:ALA:O	1:E:1279:VAL:HG23	2.20	0.42
1:E:2452:ASP:CG	1:E:2453:LEU:N	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2674:HIS:HA	1:E:2675:PRO:HD2	1.88	0.42
1:E:365:ALA:O	1:E:369:ARG:N	2.42	0.42
1:E:45:ALA:O	1:E:351:ILE:HA	2.20	0.42
1:E:511:ARG:CB	1:E:540:ASN:HB2	2.46	0.42
1:F:1030:ALA:N	1:F:1031:PRO:HD3	2.34	0.42
1:F:1503:ILE:HB	1:F:1542:TYR:HB2	2.00	0.42
1:A:1280:THR:O	1:A:1288:PRO:HB3	2.20	0.42
1:A:1672:GLN:HB3	1:A:1672:GLN:HE21	1.58	0.42
1:A:2428:PRO:O	1:A:2428:PRO:CG	2.68	0.42
1:A:2557:LEU:HB3	1:A:2613:ARG:HB2	2.01	0.42
1:A:2810:GLY:HA2	1:A:2896:THR:HG22	2.01	0.42
1:A:2957:PRO:HB3	1:A:2980:PRO:N	2.35	0.42
1:A:315:VAL:C	1:A:317:LEU:H	2.22	0.42
1:A:336:TRP:HE3	1:A:339:GLU:OE2	2.03	0.42
1:A:511:ARG:CB	1:A:540:ASN:HB2	2.46	0.42
1:B:1087:PHE:CZ	1:C:203:ASP:OD2	2.72	0.42
1:B:1634:ARG:NH1	1:B:1639:ALA:H	2.11	0.42
1:B:2468:GLU:OE2	1:B:2478:ARG:NH2	2.48	0.42
1:B:2557:LEU:HB3	1:B:2613:ARG:HB2	2.01	0.42
1:B:53:SER:HA	1:B:359:ILE:HG13	2.01	0.42
1:C:70:SER:HG	1:C:142:ARG:NH2	2.16	0.42
1:C:2141:VAL:HG22	1:C:2238:PHE:HD2	1.85	0.42
1:C:2911:ALA:O	1:C:2916:ARG:HB2	2.19	0.42
1:C:2957:PRO:HB3	1:C:2980:PRO:N	2.34	0.42
1:C:276:LYS:HB3	1:C:587:TRP:CH2	2.53	0.42
1:C:657:THR:HB	1:C:662:LYS:HE3	2.00	0.42
1:D:1703:ILE:HG22	1:D:1704:GLY:H	1.85	0.42
1:E:1504:ARG:HA	1:E:1540:SER:O	2.19	0.42
1:E:2297:ARG:HH12	1:E:2391:LYS:NZ	2.17	0.42
1:E:2468:GLU:OE2	1:E:2478:ARG:NH2	2.48	0.42
1:E:2903:GLU:OE2	1:E:2995:THR:OG1	2.36	0.42
1:E:315:VAL:C	1:E:317:LEU:H	2.22	0.42
1:E:488:ASN:OD1	1:E:523:SER:OG	2.34	0.42
1:E:602:ARG:NH2	1:E:641:ASP:OD1	2.28	0.42
1:F:958:TRP:CZ3	1:F:1130:LEU:HB2	2.54	0.42
1:F:1533:VAL:N	1:F:1543:ALA:O	2.52	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	2.20	0.42
1:F:479:LEU:HD21	1:F:485:ILE:HD11	2.02	0.42
1:F:53:SER:HA	1:F:359:ILE:HG13	2.01	0.42
1:F:780:ARG:NH1	1:F:817:GLU:OE2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1504:ARG:HA	1:A:1540:SER:O	2.19	0.42
1:A:2695:MET:HG3	1:A:2696:TYR:N	2.34	0.42
1:A:2831:MET:HE2	1:A:2831:MET:HB3	1.88	0.42
1:A:488:ASN:OD1	1:A:523:SER:OG	2.34	0.42
1:A:50:GLY:O	1:A:53:SER:OG	2.36	0.42
1:A:709:LEU:HD21	1:A:872:ARG:NE	2.34	0.42
1:A:970:ILE:HG23	1:A:992:THR:HG21	2.00	0.42
1:B:1275:ALA:HB2	1:B:1311:PHE:CE2	2.55	0.42
1:B:211:THR:HB	1:B:286:VAL:HB	2.01	0.42
1:B:2449:GLU:CG	1:B:2449:GLU:O	2.68	0.42
1:B:2706:PRO:O	1:B:2709:ILE:HG12	2.19	0.42
1:B:2786:ASP:OD2	1:B:2789:MET:HG2	2.19	0.42
1:B:2891:LYS:NZ	1:B:2903:GLU:HB3	2.35	0.42
1:B:479:LEU:HD21	1:B:485:ILE:HD11	2.02	0.42
1:B:709:LEU:HD21	1:B:872:ARG:NE	2.34	0.42
1:C:1656:LYS:N	1:C:1657:PRO:HD2	2.35	0.42
1:C:1662:ARG:HG3	1:C:1663:LYS:N	2.34	0.42
1:C:2297:ARG:HH12	1:C:2391:LYS:NZ	2.17	0.42
1:C:2296:ASN:ND2	1:C:2395:THR:HG21	2.34	0.42
1:C:2855:ALA:HA	1:C:2856:PRO:HD3	1.93	0.42
1:C:613:GLY:HA2	2:C:4000:FMN:O5'	2.19	0.42
1:D:1106:CYS:SG	1:D:1174:VAL:HG11	2.60	0.42
1:D:1247:ASN:HA	1:D:1248:PRO:HD3	1.83	0.42
1:D:1280:THR:O	1:D:1288:PRO:HB3	2.20	0.42
1:D:2244:ARG:HG2	1:D:2245:VAL:N	2.34	0.42
1:D:2294:SER:HB3	1:D:2310:LYS:HB2	2.02	0.42
1:D:2892:HIS:HA	1:D:2942:GLN:HE22	1.85	0.42
1:D:613:GLY:HA2	2:D:4000:FMN:O5'	2.19	0.42
1:D:436:THR:OG1	1:D:437:PRO:HD3	2.19	0.42
1:D:668:THR:HG23	1:D:683:GLY:HA3	2.02	0.42
1:E:1457:GLU:OE2	1:E:1614:TYR:OH	2.30	0.42
1:E:1656:LYS:N	1:E:1657:PRO:HD2	2.35	0.42
1:F:2428:PRO:CG	1:F:2428:PRO:O	2.67	0.42
1:F:2558:LEU:HD11	1:A:2610:ARG:HD2	2.01	0.42
1:F:315:VAL:C	1:F:317:LEU:H	2.22	0.42
1:F:613:GLY:HA2	2:F:4000:FMN:O5'	2.19	0.42
1:F:559:SER:O	1:F:563:ILE:HG12	2.20	0.42
1:F:709:LEU:HD21	1:F:872:ARG:NE	2.34	0.42
1:A:1008:VAL:O	1:A:1008:VAL:CG1	2.68	0.42
1:A:1457:GLU:OE2	1:A:1614:TYR:OH	2.30	0.42
1:A:2055:VAL:HG22	1:A:2194:TRP:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2891:LYS:HZ2	1:A:2903:GLU:HG2	1.83	0.42
1:A:2889:ILE:HG13	1:A:2922:LEU:HD13	2.02	0.42
1:A:559:SER:O	1:A:563:ILE:HG12	2.20	0.42
1:A:970:ILE:O	1:A:974:THR:HG22	2.20	0.42
1:B:1120:GLU:HA	1:B:1125:VAL:CG2	2.50	0.42
1:B:2244:ARG:HG2	1:B:2245:VAL:N	2.34	0.42
1:B:2800:PHE:CZ	1:B:2812:LEU:HD13	2.55	0.42
1:B:336:TRP:HE3	1:B:339:GLU:OE2	2.03	0.42
1:B:45:ALA:O	1:B:351:ILE:HA	2.20	0.42
1:C:1021:LEU:HB3	1:C:1034:GLU:HG2	2.01	0.42
1:C:1280:THR:O	1:C:1288:PRO:HB3	2.20	0.42
1:C:2244:ARG:HG2	1:C:2245:VAL:N	2.34	0.42
1:C:2846:ALA:O	1:C:2859:GLY:HA3	2.19	0.42
1:C:2892:HIS:HA	1:C:2942:GLN:HE22	1.85	0.42
1:C:479:LEU:HD21	1:C:485:ILE:HD11	2.02	0.42
1:C:970:ILE:O	1:C:974:THR:HG22	2.20	0.42
1:D:2141:VAL:HG22	1:D:2238:PHE:HD2	1.84	0.42
1:D:2695:MET:HG3	1:D:2696:TYR:N	2.34	0.42
1:D:2753:LYS:HA	1:D:2753:LYS:HD3	1.83	0.42
1:D:2891:LYS:NZ	1:D:2903:GLU:HB3	2.35	0.42
1:E:1275:ALA:HB2	1:E:1311:PHE:CE2	2.55	0.42
1:E:1684:ASP:HA	1:E:1687:PHE:HD2	1.82	0.42
1:E:2805:ASP:OD2	1:E:2807:ARG:HB2	2.20	0.42
1:E:2889:ILE:HG13	1:E:2922:LEU:HD13	2.02	0.42
1:E:658:SER:HB2	1:E:661:VAL:HG23	2.01	0.42
1:F:2244:ARG:HG2	1:F:2245:VAL:N	2.35	0.42
1:F:2452:ASP:CG	1:F:2453:LEU:N	2.73	0.42
1:F:2957:PRO:HB3	1:F:2980:PRO:N	2.34	0.42
1:F:488:ASN:OD1	1:F:523:SER:OG	2.34	0.42
1:A:1275:ALA:O	1:A:1279:VAL:HG23	2.20	0.42
1:E:2032:VAL:HG11	1:A:2032:VAL:HG11	2.00	0.42
1:A:2805:ASP:OD2	1:A:2807:ARG:HB2	2.20	0.42
1:A:2891:LYS:NZ	1:A:2903:GLU:HB3	2.35	0.42
1:A:307:ILE:HG22	1:A:311:TRP:CE2	2.54	0.42
1:A:44:TYR:O	1:A:153:VAL:N	2.44	0.42
1:A:53:SER:HA	1:A:359:ILE:HG13	2.01	0.42
1:A:585:HIS:HD2	1:A:586:SER:H	1.62	0.42
1:B:1280:THR:O	1:B:1288:PRO:HB3	2.20	0.42
1:B:1656:LYS:N	1:B:1657:PRO:HD2	2.35	0.42
1:B:2428:PRO:O	1:B:2428:PRO:CG	2.67	0.42
1:B:2805:ASP:OD2	1:B:2807:ARG:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2957:PRO:HB3	1:B:2980:PRO:N	2.35	0.42
1:B:488:ASN:OD1	1:B:523:SER:OG	2.34	0.42
1:C:1317:GLY:O	1:C:1324:VAL:HG12	2.19	0.42
1:C:2055:VAL:HG22	1:C:2194:TRP:CD1	2.55	0.42
1:C:2354:SER:O	1:C:2358:GLU:HG3	2.20	0.42
1:C:2930:LEU:HD23	1:C:2930:LEU:HA	1.93	0.42
1:C:436:THR:OG1	1:C:437:PRO:HD3	2.19	0.42
1:D:1275:ALA:HB2	1:D:1311:PHE:CE2	2.55	0.42
1:D:1352:PHE:HA	1:D:1353:PRO:HD3	1.72	0.42
1:D:2286:ARG:HD3	1:D:2331:SER:OG	2.20	0.42
1:D:2452:ASP:CG	1:D:2453:LEU:N	2.73	0.42
1:D:2512:TRP:O	1:D:2520:LEU:HD12	2.19	0.42
1:D:2591:ARG:HH12	1:F:2014:SER:H	1.65	0.42
1:D:2957:PRO:HB3	1:D:2980:PRO:N	2.34	0.42
1:D:709:LEU:HD21	1:D:872:ARG:NE	2.34	0.42
1:E:210:VAL:HG22	1:E:287:PHE:HD1	1.83	0.42
1:E:613:GLY:HA2	2:E:4000:FMN:O5'	2.19	0.42
1:E:885:GLU:HG2	1:E:887:ASP:H	1.84	0.42
1:F:1106:CYS:SG	1:F:1174:VAL:HG11	2.60	0.42
1:F:2300:PHE:HZ	1:F:2398:LEU:HB3	1.85	0.42
1:F:2610:ARG:HD2	1:A:2558:LEU:HD11	2.02	0.42
1:F:2715:PRO:HD2	1:A:2737:VAL:HG11	2.02	0.42
1:F:2786:ASP:OD2	1:F:2789:MET:HG2	2.19	0.42
1:F:782:ARG:HH11	1:F:857:VAL:HG22	1.83	0.42
1:A:1021:LEU:HB3	1:A:1034:GLU:HG2	2.01	0.42
1:A:2563:LEU:HD21	1:A:2567:PHE:HB2	2.02	0.42
1:A:668:THR:HG23	1:A:683:GLY:HA3	2.02	0.42
1:B:1275:ALA:O	1:B:1279:VAL:HG23	2.20	0.42
1:B:2294:SER:HB3	1:B:2310:LYS:HB2	2.02	0.42
1:B:2452:ASP:CG	1:B:2453:LEU:N	2.73	0.42
1:E:2701:LEU:HD23	1:B:2558:LEU:HB2	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:1380:ALA:HB1	1:C:1474:LEU:CD1	2.50	0.42
1:C:1504:ARG:HA	1:C:1505:PRO:HD2	1.93	0.42
1:C:1733:ASN:H	1:C:1737:ASP:HB2	1.83	0.42
1:C:2503:LYS:HG3	1:C:2513:TYR:HB2	2.02	0.42
1:B:2014:SER:N	1:C:2591:ARG:HH12	2.16	0.42
1:C:2557:LEU:HB3	1:C:2613:ARG:HB2	2.01	0.42
1:C:365:ALA:O	1:C:369:ARG:N	2.42	0.42
1:C:885:GLU:HG2	1:C:887:ASP:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:931:VAL:HG13	1:C:934:LEU:N	2.21	0.42
1:D:1021:LEU:HB3	1:D:1034:GLU:HG2	2.01	0.42
1:D:957:LEU:O	1:D:1034:GLU:HB2	2.20	0.42
1:D:1120:GLU:HA	1:D:1125:VAL:CG2	2.50	0.42
1:D:1228:VAL:HB	1:D:1311:PHE:HB2	2.02	0.42
1:D:1656:LYS:N	1:D:1657:PRO:HD2	2.35	0.42
1:D:1660:LEU:HD23	1:D:1660:LEU:HA	1.86	0.42
1:D:2428:PRO:CG	1:D:2428:PRO:O	2.68	0.42
1:D:2468:GLU:OE2	1:D:2478:ARG:NH2	2.48	0.42
1:D:2557:LEU:HB3	1:D:2613:ARG:HB2	2.01	0.42
1:D:816:LEU:HD23	1:D:816:LEU:HA	1.83	0.42
1:E:957:LEU:O	1:E:1034:GLU:HB2	2.20	0.42
1:E:1280:THR:O	1:E:1288:PRO:HB3	2.20	0.42
1:E:2141:VAL:HG22	1:E:2238:PHE:HD2	1.85	0.42
1:E:2786:ASP:OD2	1:E:2789:MET:HG2	2.19	0.42
1:E:2810:GLY:HA2	1:E:2896:THR:HG22	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:F:107:LEU:HD13	1:F:113:VAL:HB	2.02	0.42
1:F:1275:ALA:HB2	1:F:1311:PHE:CE2	2.55	0.42
1:F:1612:GLY:N	1:F:1623:PHE:O	2.48	0.42
1:F:2088:ARG:C	1:F:2188:ARG:NH1	2.72	0.42
1:F:2452:ASP:CG	1:F:2453:LEU:H	2.23	0.42
1:F:2846:ALA:O	1:F:2859:GLY:HA3	2.20	0.42
1:F:336:TRP:HE3	1:F:339:GLU:OE2	2.03	0.42
1:F:885:GLU:HG2	1:F:887:ASP:H	1.84	0.42
1:F:970:ILE:O	1:F:974:THR:HG22	2.20	0.42
1:A:1381:ASP:OD1	1:A:1391:SER:OG	2.22	0.42
1:A:2300:PHE:HZ	1:A:2398:LEU:HB3	1.85	0.42
1:A:2620:THR:OG1	1:A:2791:ARG:NH2	2.53	0.42
1:A:341:THR:HG23	1:A:344:HIS:ND1	2.34	0.42
1:A:436:THR:OG1	1:A:437:PRO:HD3	2.19	0.42
1:A:45:ALA:O	1:A:351:ILE:HA	2.20	0.42
1:A:613:GLY:HA2	2:A:4000:FMN:O5'	2.19	0.42
1:B:2452:ASP:CG	1:B:2453:LEU:H	2.24	0.42
1:B:2584:ASP:O	1:B:2586:GLU:N	2.53	0.42
1:E:2558:LEU:HB2	1:B:2701:LEU:HD23	2.02	0.42
1:B:2891:LYS:HZ2	1:B:2903:GLU:HG2	1.84	0.42
1:B:2911:ALA:O	1:B:2916:ARG:HB2	2.19	0.42
1:B:340:ILE:HD11	1:B:351:ILE:HD13	2.01	0.42
1:C:2294:SER:HB3	1:C:2310:LYS:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2449:GLU:CG	1:C:2449:GLU:O	2.68	0.42
1:C:266:ALA:O	1:C:270:GLU:HG3	2.20	0.42
1:C:53:SER:HA	1:C:359:ILE:HG13	2.01	0.42
1:D:2055:VAL:HG22	1:D:2194:TRP:CD1	2.55	0.42
1:D:2354:SER:O	1:D:2358:GLU:HG3	2.20	0.42
1:D:2805:ASP:OD2	1:D:2807:ARG:HB2	2.20	0.42
1:D:479:LEU:HD21	1:D:485:ILE:HD11	2.02	0.42
1:D:970:ILE:O	1:D:974:THR:HG22	2.20	0.42
1:E:1117:ALA:HA	1:E:1120:GLU:HB2	2.01	0.42
1:E:2096:VAL:CG1	1:E:2097:ALA:N	2.82	0.42
1:E:2428:PRO:CG	1:E:2428:PRO:O	2.67	0.42
1:E:341:THR:HG23	1:E:344:HIS:ND1	2.34	0.42
1:E:559:SER:O	1:E:563:ILE:HG12	2.20	0.42
1:E:928:ALA:HB1	1:E:931:VAL:CB	2.50	0.42
1:F:1280:THR:O	1:F:1288:PRO:HB3	2.20	0.42
1:F:1380:ALA:HB1	1:F:1474:LEU:CD1	2.50	0.42
1:F:78:GLU:HB2	1:F:176:VAL:HG21	2.01	0.42
1:E:1087:PHE:CZ	1:F:203:ASP:OD2	2.72	0.42
1:F:2444:PRO:HB2	1:F:2988:PRO:HB3	2.01	0.42
1:F:2805:ASP:OD2	1:F:2807:ARG:HB2	2.20	0.42
1:F:2891:LYS:NZ	1:F:2903:GLU:HB3	2.35	0.42
1:F:393:VAL:O	1:F:395:GLU:N	2.53	0.42
1:A:1106:CYS:SG	1:A:1174:VAL:HG11	2.60	0.42
1:A:1317:GLY:O	1:A:1324:VAL:HG12	2.19	0.42
1:A:1703:ILE:HG22	1:A:1704:GLY:H	1.85	0.42
1:B:1228:VAL:HB	1:B:1311:PHE:HB2	2.02	0.42
1:B:1380:ALA:HB1	1:B:1474:LEU:CD1	2.50	0.42
1:B:1611:ILE:HG23	1:B:1624:THR:HA	2.02	0.42
1:B:2354:SER:O	1:B:2358:GLU:HG3	2.20	0.42
1:B:393:VAL:O	1:B:395:GLU:N	2.52	0.42
1:B:669:LYS:O	1:B:682:ASN:HB3	2.20	0.42
1:F:1394:HIS:ND1	1:C:2324:LYS:NZ	2.68	0.42
1:C:2800:PHE:CZ	1:C:2812:LEU:HD13	2.55	0.42
1:D:1380:ALA:HB1	1:D:1474:LEU:CD1	2.50	0.42
1:D:1504:ARG:HA	1:D:1505:PRO:HD2	1.93	0.42
1:D:2503:LYS:HG3	1:D:2513:TYR:HB2	2.02	0.42
1:E:1008:VAL:CG1	1:E:1008:VAL:O	2.68	0.42
1:E:1021:LEU:HB3	1:E:1034:GLU:HG2	2.01	0.42
1:E:2244:ARG:HG2	1:E:2245:VAL:N	2.34	0.42
1:E:479:LEU:HD21	1:E:485:ILE:HD11	2.02	0.42
1:E:668:THR:HG23	1:E:683:GLY:HA3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1228:VAL:HB	1:F:1311:PHE:HB2	2.02	0.42
1:F:2055:VAL:HG22	1:F:2194:TRP:CD1	2.55	0.42
1:F:2296:ASN:ND2	1:F:2395:THR:HG21	2.34	0.42
1:F:2558:LEU:HB2	1:A:2701:LEU:HD23	2.02	0.42
1:F:2889:ILE:HG13	1:F:2922:LEU:HD13	2.02	0.42
1:A:1117:ALA:HA	1:A:1120:GLU:HB2	2.01	0.41
1:A:1662:ARG:HG3	1:A:1663:LYS:N	2.34	0.41
1:A:1687:PHE:CE1	1:A:1723:GLU:HG2	2.55	0.41
1:A:2846:ALA:O	1:A:2859:GLY:HA3	2.20	0.41
1:A:756:LEU:HD13	1:A:859:PHE:CD2	2.55	0.41
1:A:885:GLU:HG2	1:A:887:ASP:H	1.84	0.41
1:B:1106:CYS:SG	1:B:1174:VAL:HG11	2.60	0.41
1:B:1687:PHE:CE1	1:B:1723:GLU:HG2	2.55	0.41
1:B:2286:ARG:HD3	1:B:2331:SER:OG	2.20	0.41
1:B:2180:LYS:HZ1	1:B:2962:ASP:HB3	1.83	0.41
1:B:3065:PRO:O	1:B:3069:GLN:N	2.42	0.41
1:B:50:GLY:O	1:B:53:SER:OG	2.36	0.41
1:B:756:LEU:HD13	1:B:859:PHE:CD2	2.55	0.41
1:C:107:LEU:HD13	1:C:113:VAL:HB	2.01	0.41
1:C:1228:VAL:HB	1:C:1311:PHE:HB2	2.02	0.41
1:C:160:GLN:HA	1:C:329:ILE:HD13	2.02	0.41
1:C:1703:ILE:HG22	1:C:1704:GLY:H	1.85	0.41
1:C:668:THR:HG23	1:C:683:GLY:HA3	2.02	0.41
1:D:1611:ILE:HG23	1:D:1624:THR:HA	2.02	0.41
1:D:2800:PHE:CZ	1:D:2812:LEU:HD13	2.55	0.41
1:D:2846:ALA:O	1:D:2859:GLY:HA3	2.20	0.41
1:E:1013:THR:CG2	1:E:1014:TRP:N	2.58	0.41
1:E:1120:GLU:HA	1:E:1125:VAL:CG2	2.50	0.41
1:E:1703:ILE:HG22	1:E:1704:GLY:H	1.85	0.41
1:E:2354:SER:O	1:E:2358:GLU:HG3	2.20	0.41
1:E:2452:ASP:CG	1:E:2453:LEU:H	2.24	0.41
1:E:2563:LEU:HD21	1:E:2567:PHE:HB2	2.02	0.41
1:E:2620:THR:OG1	1:E:2791:ARG:NH2	2.53	0.41
1:E:2610:ARG:NH1	1:E:2700:LEU:HD11	2.25	0.41
1:F:1095:LEU:HD23	1:F:1098:VAL:HA	2.02	0.41
1:F:1500:LEU:HD23	1:F:1574:VAL:HG21	2.02	0.41
1:F:266:ALA:O	1:F:270:GLU:HG3	2.20	0.41
1:A:1084:THR:CG2	1:A:1274:ALA:HA	2.49	0.41
1:A:1611:ILE:HG23	1:A:1624:THR:HA	2.02	0.41
1:A:1656:LYS:N	1:A:1657:PRO:HD2	2.35	0.41
1:A:2800:PHE:CE1	1:A:2812:LEU:HD22	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:VAL:O	1:A:395:GLU:N	2.52	0.41
1:B:1117:ALA:HA	1:B:1120:GLU:HB2	2.01	0.41
1:B:1551:LEU:HA	1:B:1551:LEU:HD13	1.80	0.41
1:B:1703:ILE:HG22	1:B:1704:GLY:H	1.85	0.41
1:B:1706:LYS:HA	1:B:1735:GLU:HG3	2.03	0.41
1:B:2961:LEU:HD22	1:B:2976:TRP:HD1	1.85	0.41
1:B:160:GLN:HA	1:B:329:ILE:HD13	2.02	0.41
1:B:795:HIS:NE2	1:B:797:GLN:HB2	2.35	0.41
1:C:2300:PHE:HZ	1:C:2398:LEU:HB3	1.85	0.41
1:C:2620:THR:OG1	1:C:2791:ARG:NH2	2.53	0.41
1:D:1070:VAL:N	1:D:1152:PHE:O	2.52	0.41
1:D:2449:GLU:CG	1:D:2449:GLU:O	2.68	0.41
1:D:2452:ASP:CG	1:D:2453:LEU:H	2.24	0.41
1:D:2700:LEU:HD22	1:C:2697:HIS:CD2	2.43	0.41
1:D:417:LEU:HD21	1:D:625:LEU:HD21	2.02	0.41
1:E:1228:VAL:HB	1:E:1311:PHE:HB2	2.02	0.41
1:E:1460:ALA:O	1:E:1464:VAL:HG22	2.20	0.41
1:E:1687:PHE:CE1	1:E:1723:GLU:HG2	2.55	0.41
1:E:2055:VAL:HG22	1:E:2194:TRP:CD1	2.55	0.41
1:E:2889:ILE:HB	1:E:2924:ILE:HG12	2.01	0.41
1:F:2800:PHE:CZ	1:F:2812:LEU:HD13	2.55	0.41
1:F:2989:LEU:HD12	1:F:2989:LEU:HA	1.77	0.41
1:F:340:ILE:HD11	1:F:351:ILE:HD13	2.01	0.41
1:F:928:ALA:HB1	1:F:931:VAL:CB	2.50	0.41
1:A:1275:ALA:HB2	1:A:1311:PHE:CE2	2.55	0.41
1:A:2296:ASN:ND2	1:A:2395:THR:HG21	2.34	0.41
1:A:266:ALA:O	1:A:270:GLU:HG3	2.20	0.41
1:A:2786:ASP:OD2	1:A:2789:MET:HG2	2.19	0.41
1:A:2961:LEU:HD22	1:A:2976:TRP:HD1	1.85	0.41
1:A:669:LYS:O	1:A:682:ASN:HB3	2.20	0.41
1:A:618:PRO:HB3	1:A:915:PHE:HA	2.03	0.41
1:A:928:ALA:HB1	1:A:931:VAL:CB	2.50	0.41
1:B:1460:ALA:O	1:B:1464:VAL:HG22	2.20	0.41
1:B:1491:ASP:HB2	1:B:1495:ARG:HB2	2.02	0.41
1:B:78:GLU:HB2	1:B:176:VAL:HG21	2.01	0.41
1:B:2141:VAL:HG22	1:B:2238:PHE:HD2	1.85	0.41
1:B:266:ALA:O	1:B:270:GLU:HG3	2.20	0.41
1:E:2737:VAL:HG11	1:B:2715:PRO:HD2	2.02	0.41
1:B:2620:THR:OG1	1:B:2791:ARG:NH2	2.53	0.41
1:B:2892:HIS:HA	1:B:2942:GLN:HE22	1.85	0.41
1:B:436:THR:OG1	1:B:437:PRO:HD3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:475:LEU:HA	1:B:475:LEU:HD23	1.79	0.41
1:C:1008:VAL:O	1:C:1008:VAL:CG2	2.68	0.41
1:C:1070:VAL:N	1:C:1152:PHE:O	2.51	0.41
1:C:1106:CYS:SG	1:C:1174:VAL:HG11	2.60	0.41
1:C:2492:VAL:HG12	1:C:2526:ILE:HG22	2.02	0.41
1:C:2695:MET:HG3	1:C:2696:TYR:N	2.34	0.41
1:C:2805:ASP:OD2	1:C:2807:ARG:HB2	2.20	0.41
1:C:544:ILE:O	1:C:546:HIS:N	2.40	0.41
1:C:580:ARG:HD3	1:C:896:ALA:HB3	2.01	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:1491:ASP:HB2	1:D:1495:ARG:HB2	2.02	0.41
1:D:2919:GLY:O	1:D:2921:PRO:HD3	2.21	0.41
1:D:2889:ILE:HG13	1:D:2922:LEU:HD13	2.02	0.41
1:E:1611:ILE:HG23	1:E:1624:THR:HA	2.02	0.41
1:E:2013:LEU:HA	1:E:2013:LEU:HD23	1.87	0.41
1:D:1087:PHE:CZ	1:E:203:ASP:OD2	2.72	0.41
1:E:2294:SER:HB3	1:E:2310:LYS:HB2	2.02	0.41
1:E:2552:ASP:N	1:E:2552:ASP:OD1	2.43	0.41
1:E:2584:ASP:O	1:E:2586:GLU:N	2.53	0.41
1:E:2808:ARG:HH21	1:E:2901:PRO:HD3	1.85	0.41
1:E:336:TRP:HE3	1:E:339:GLU:OE2	2.03	0.41
1:E:970:ILE:O	1:E:974:THR:HG22	2.20	0.41
1:F:1233:PRO:HB2	1:F:1236:MET:HE2	2.01	0.41
1:F:160:GLN:HA	1:F:329:ILE:HD13	2.02	0.41
1:F:1656:LYS:N	1:F:1657:PRO:HD2	2.35	0.41
1:F:1672:GLN:HB3	1:F:1672:GLN:HE21	1.58	0.41
1:F:2297:ARG:HH22	1:F:2391:LYS:HZ3	1.67	0.41
1:F:2584:ASP:O	1:F:2586:GLU:N	2.53	0.41
1:F:2702:GLY:HA3	1:A:2557:LEU:CG	2.45	0.41
1:F:2620:THR:OG1	1:F:2791:ARG:NH2	2.53	0.41
1:F:50:GLY:O	1:F:53:SER:OG	2.36	0.41
1:A:2449:GLU:CG	1:A:2449:GLU:O	2.68	0.41
1:A:479:LEU:HD21	1:A:485:ILE:HD11	2.02	0.41
1:E:2557:LEU:CG	1:B:2702:GLY:HA3	2.46	0.41
1:B:957:LEU:O	1:B:1034:GLU:HB2	2.20	0.41
1:B:970:ILE:O	1:B:974:THR:HG22	2.20	0.41
1:C:1129:LEU:HA	1:C:1129:LEU:HD12	1.92	0.41
1:C:587:TRP:CZ2	1:C:694:ASP:OD2	2.74	0.41
1:D:1687:PHE:CE1	1:D:1723:GLU:HG2	2.55	0.41
1:D:2620:THR:OG1	1:D:2791:ARG:NH2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2710:LEU:HD12	1:D:2713:VAL:HG21	2.03	0.41
1:D:2808:ARG:HH21	1:D:2901:PRO:HD3	1.85	0.41
1:E:1462:ALA:HB2	1:E:1468:TYR:CE1	2.56	0.41
1:E:1533:VAL:N	1:E:1543:ALA:O	2.52	0.41
1:E:180:ALA:O	1:E:184:LEU:HG	2.21	0.41
1:E:202:GLY:O	1:E:289:PRO:HD2	2.21	0.41
1:E:2300:PHE:HZ	1:E:2398:LEU:HB3	1.85	0.41
1:E:793:ARG:HH12	1:E:2523:GLU:CD	2.24	0.41
1:E:795:HIS:NE2	1:E:797:GLN:HB2	2.35	0.41
1:E:931:VAL:HG13	1:E:934:LEU:N	2.21	0.41
1:F:1038:ALA:N	1:F:1127:GLU:H	2.19	0.41
1:F:1460:ALA:O	1:F:1464:VAL:HG22	2.20	0.41
1:F:1611:ILE:HG23	1:F:1624:THR:HA	2.02	0.41
1:F:1703:ILE:HG22	1:F:1704:GLY:H	1.85	0.41
1:F:2352:ILE:HG21	1:F:2412:ALA:CB	2.51	0.41
1:F:756:LEU:HD13	1:F:859:PHE:CD2	2.55	0.41
1:A:1133:VAL:N	1:A:1193:ALA:O	2.48	0.41
1:A:1491:ASP:HB2	1:A:1495:ARG:HB2	2.02	0.41
1:A:160:GLN:HA	1:A:329:ILE:HD13	2.02	0.41
1:A:2294:SER:HB3	1:A:2310:LYS:HB2	2.02	0.41
1:A:2354:SER:O	1:A:2358:GLU:HG3	2.20	0.41
1:A:2503:LYS:HG3	1:A:2513:TYR:HB2	2.02	0.41
1:F:2737:VAL:HG23	1:A:2735:HIS:O	2.21	0.41
1:B:1660:LEU:HA	1:B:1660:LEU:HD23	1.85	0.41
1:B:2483:VAL:HG13	1:B:2954:VAL:HG11	2.03	0.41
1:B:3080:ARG:CG	1:B:3080:ARG:NH1	2.72	0.41
1:B:360:LEU:HA	1:B:363:LEU:HB3	2.03	0.41
1:B:374:GLY:C	1:B:375:ILE:HG13	2.41	0.41
1:C:1275:ALA:O	1:C:1279:VAL:HG23	2.20	0.41
1:C:1400:PRO:O	1:C:1415:GLY:HA2	2.21	0.41
1:C:1634:ARG:NH1	1:C:1639:ALA:H	2.11	0.41
1:C:1706:LYS:HA	1:C:1735:GLU:HG3	2.03	0.41
1:C:2452:ASP:CG	1:C:2453:LEU:H	2.24	0.41
1:C:2584:ASP:O	1:C:2586:GLU:N	2.53	0.41
1:B:2014:SER:H	1:C:2591:ARG:NH1	2.19	0.41
1:C:202:GLY:O	1:C:289:PRO:HD2	2.21	0.41
1:C:417:LEU:HD21	1:C:625:LEU:HD21	2.02	0.41
1:C:928:ALA:HB1	1:C:931:VAL:CB	2.50	0.41
1:C:957:LEU:O	1:C:1034:GLU:HB2	2.20	0.41
1:D:2096:VAL:CG1	1:D:2097:ALA:N	2.82	0.41
1:D:2141:VAL:HG22	1:D:2238:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2300:PHE:HZ	1:D:2398:LEU:HB3	1.85	0.41
1:D:2530:TYR:O	1:D:2533:ALA:N	2.52	0.41
1:D:2558:LEU:HB2	1:C:2701:LEU:HD23	2.02	0.41
1:D:2584:ASP:O	1:D:2586:GLU:N	2.53	0.41
1:D:2748:GLU:HG2	1:C:2753:LYS:HZ1	1.85	0.41
1:D:2961:LEU:HD22	1:D:2976:TRP:HD1	1.85	0.41
1:D:669:LYS:O	1:D:682:ASN:HB3	2.20	0.41
1:D:928:ALA:HB1	1:D:931:VAL:CB	2.50	0.41
1:E:1106:CYS:SG	1:E:1174:VAL:HG11	2.60	0.41
1:E:107:LEU:HD13	1:E:113:VAL:HB	2.02	0.41
1:E:1380:ALA:HB1	1:E:1474:LEU:CD1	2.50	0.41
1:E:1412:HIS:CD2	1:E:1413:PRO:HD2	2.49	0.41
1:E:2503:LYS:HG3	1:E:2513:TYR:HB2	2.02	0.41
1:E:233:LEU:HB3	1:E:251:THR:OG1	2.21	0.41
1:E:369:ARG:HA	1:E:369:ARG:HD2	1.85	0.41
1:E:436:THR:OG1	1:E:437:PRO:HD3	2.19	0.41
1:E:709:LEU:HD21	1:E:872:ARG:NE	2.34	0.41
1:E:618:PRO:HB3	1:E:915:PHE:HA	2.02	0.41
1:F:1035:VAL:HB	1:F:1042:MET:HG2	2.03	0.41
1:F:233:LEU:HB3	1:F:251:THR:OG1	2.21	0.41
1:F:2354:SER:O	1:F:2358:GLU:HG3	2.20	0.41
1:F:2449:GLU:CG	1:F:2449:GLU:O	2.68	0.41
1:E:2014:SER:H	1:F:2591:ARG:NH1	2.19	0.41
1:F:45:ALA:O	1:F:351:ILE:HA	2.20	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
1:A:233:LEU:HB3	1:A:251:THR:OG1	2.21	0.41
1:A:2889:ILE:HB	1:A:2924:ILE:HG12	2.01	0.41
1:A:374:GLY:C	1:A:375:ILE:HG13	2.41	0.41
1:A:594:LEU:O	1:A:598:TYR:HB2	2.21	0.41
1:B:2205:ASP:O	1:B:2209:LEU:HB2	2.21	0.41
1:B:2891:LYS:HB2	1:B:2893:ASP:OD2	2.21	0.41
1:B:2919:GLY:O	1:B:2921:PRO:HD3	2.21	0.41
1:B:709:LEU:HD11	1:B:872:ARG:CZ	2.51	0.41
1:C:1095:LEU:HD23	1:C:1098:VAL:HA	2.03	0.41
1:C:2013:LEU:HD23	1:C:2013:LEU:HA	1.87	0.41
1:D:2558:LEU:HD11	1:C:2610:ARG:HD2	2.01	0.41
1:C:2710:LEU:HD12	1:C:2713:VAL:HG21	2.03	0.41
1:D:2735:HIS:O	1:C:2737:VAL:HG23	2.21	0.41
1:C:2808:ARG:HH21	1:C:2901:PRO:HD3	1.85	0.41
1:C:358:ASP:OD2	1:C:361:THR:HB	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:618:PRO:HB3	1:C:915:PHE:HA	2.02	0.41
1:C:795:HIS:NE2	1:C:797:GLN:HB2	2.35	0.41
1:D:1237:ARG:HG2	1:D:1237:ARG:HH11	1.86	0.41
1:D:1412:HIS:HD2	1:D:1413:PRO:CD	2.31	0.41
1:D:1706:LYS:HA	1:D:1735:GLU:HG3	2.03	0.41
1:D:2492:VAL:HG12	1:D:2526:ILE:HG22	2.02	0.41
1:D:2591:ARG:NH1	1:F:2014:SER:H	2.18	0.41
1:D:2701:LEU:HD23	1:C:2558:LEU:HB2	2.02	0.41
1:E:1095:LEU:HD23	1:E:1098:VAL:HA	2.02	0.41
1:E:1491:ASP:HB2	1:E:1495:ARG:HB2	2.02	0.41
1:E:2134:TYR:HB3	1:E:2189:PHE:HD2	1.85	0.41
1:E:2334:HIS:CD2	1:E:2391:LYS:HG3	2.50	0.41
1:E:266:ALA:O	1:E:270:GLU:HG3	2.20	0.41
1:E:2846:ALA:O	1:E:2859:GLY:HA3	2.20	0.41
1:E:393:VAL:O	1:E:395:GLU:N	2.52	0.41
1:E:417:LEU:HD21	1:E:625:LEU:HD21	2.02	0.41
1:E:816:LEU:HD23	1:E:816:LEU:HA	1.83	0.41
1:F:1662:ARG:HG3	1:F:1663:LYS:N	2.34	0.41
1:F:2134:TYR:HB3	1:F:2189:PHE:HD2	1.85	0.41
1:F:2919:GLY:O	1:F:2921:PRO:HD3	2.21	0.41
1:F:2483:VAL:HG13	1:F:2954:VAL:HG11	2.03	0.41
1:F:587:TRP:CZ2	1:F:694:ASP:OD2	2.74	0.41
1:A:107:LEU:HD13	1:A:113:VAL:HB	2.02	0.41
1:A:2098:THR:HG23	1:A:2099:GLN:N	2.36	0.41
1:A:2141:VAL:HG22	1:A:2238:PHE:HD2	1.85	0.41
1:F:2701:LEU:HD23	1:A:2558:LEU:HB2	2.02	0.41
1:A:2892:HIS:HA	1:A:2942:GLN:HE22	1.85	0.41
1:A:417:LEU:HD21	1:A:625:LEU:HD21	2.02	0.41
1:A:585:HIS:HB3	1:A:694:ASP:HB2	2.03	0.41
1:A:954:PRO:O	1:A:965:ASN:N	2.52	0.41
1:B:2134:TYR:HB3	1:B:2189:PHE:HD2	1.85	0.41
1:B:2300:PHE:HZ	1:B:2398:LEU:HB3	1.85	0.41
1:B:2444:PRO:HB2	1:B:2988:PRO:HB3	2.01	0.41
1:B:2770:LEU:CB	1:B:2815:GLN:HB3	2.51	0.41
1:C:1120:GLU:HA	1:C:1125:VAL:CG2	2.50	0.41
1:C:1084:THR:CG2	1:C:1274:ALA:HA	2.49	0.41
1:C:2205:ASP:O	1:C:2209:LEU:HB2	2.21	0.41
1:D:2610:ARG:HD2	1:C:2558:LEU:HD11	2.02	0.41
1:C:2770:LEU:CB	1:C:2815:GLN:HB3	2.51	0.41
1:C:2891:LYS:NZ	1:C:2903:GLU:HB3	2.35	0.41
1:C:42:GLU:HA	1:C:43:PRO:HD3	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1400:PRO:O	1:D:1415:GLY:HA2	2.21	0.41
1:D:1460:ALA:O	1:D:1464:VAL:HG22	2.20	0.41
1:D:2483:VAL:HG13	1:D:2954:VAL:HG11	2.03	0.41
1:D:2563:LEU:HD21	1:D:2567:PHE:HB2	2.02	0.41
1:D:559:SER:O	1:D:563:ILE:HG12	2.20	0.41
1:D:756:LEU:HD13	1:D:859:PHE:CD2	2.55	0.41
1:E:2449:GLU:CG	1:E:2449:GLU:O	2.68	0.41
1:F:1275:ALA:O	1:F:1279:VAL:HG23	2.20	0.41
1:F:2294:SER:HB3	1:F:2310:LYS:HB2	2.02	0.41
1:F:2611:VAL:HA	1:F:2612:PRO:HD3	1.86	0.41
1:F:2891:LYS:HB2	1:F:2893:ASP:OD2	2.21	0.41
1:F:436:THR:HG22	1:F:460:GLY:HA3	2.03	0.41
1:A:1120:GLU:HA	1:A:1125:VAL:CG2	2.50	0.41
1:A:1462:ALA:HB2	1:A:1468:TYR:CE1	2.56	0.41
1:B:1095:LEU:HD23	1:B:1098:VAL:HA	2.02	0.41
1:B:928:ALA:HB1	1:B:931:VAL:CB	2.50	0.41
1:C:2096:VAL:CG2	1:C:2097:ALA:N	2.82	0.41
1:C:2134:TYR:HB3	1:C:2189:PHE:HD2	1.85	0.41
1:C:2286:ARG:HD3	1:C:2331:SER:OG	2.20	0.41
1:C:2891:LYS:HB2	1:C:2893:ASP:OD2	2.21	0.41
1:C:2889:ILE:HG13	1:C:2922:LEU:HD13	2.02	0.41
1:C:81:LEU:HA	1:C:81:LEU:HD23	1.88	0.41
1:C:756:LEU:HD13	1:C:859:PHE:CD2	2.55	0.41
1:D:2405:MET:O	1:D:2409:ALA:HB3	2.21	0.41
1:D:594:LEU:O	1:D:598:TYR:HB2	2.21	0.41
1:D:795:HIS:NE2	1:D:797:GLN:HB2	2.35	0.41
1:E:1099:PRO:HB2	1:E:1295:TRP:HE1	1.86	0.41
1:E:2710:LEU:HD12	1:E:2713:VAL:HG21	2.03	0.41
1:E:278:ARG:HD2	1:E:674:TRP:CE3	2.56	0.41
1:E:2800:PHE:CZ	1:E:2812:LEU:HD13	2.55	0.41
1:E:2919:GLY:O	1:E:2921:PRO:HD3	2.21	0.41
1:E:160:GLN:HA	1:E:329:ILE:HD13	2.02	0.41
1:E:78:GLU:HB2	1:E:176:VAL:HG21	2.01	0.41
1:F:1120:GLU:HA	1:F:1125:VAL:CG2	2.50	0.41
1:F:1291:LYS:HZ2	1:F:1346:PRO:N	2.17	0.41
1:F:1491:ASP:HB2	1:F:1495:ARG:HB2	2.02	0.41
1:F:1660:LEU:HA	1:F:1660:LEU:HD23	1.86	0.41
1:F:202:GLY:O	1:F:289:PRO:HD2	2.21	0.41
1:F:438:THR:HA	1:F:880:HIS:CE1	2.51	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:709:LEU:HD11	1:F:872:ARG:CZ	2.51	0.41
1:F:795:HIS:NE2	1:F:797:GLN:HB2	2.35	0.41
1:A:1099:PRO:HB2	1:A:1295:TRP:HE1	1.86	0.41
1:A:2134:TYR:HB3	1:A:2189:PHE:HD2	1.85	0.41
1:A:2584:ASP:O	1:A:2586:GLU:N	2.53	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:2845:PHE:N	1:A:3003:SER:O	2.46	0.41
1:A:358:ASP:OD2	1:A:361:THR:HB	2.21	0.41
1:A:795:HIS:NE2	1:A:797:GLN:HB2	2.35	0.41
1:B:1233:PRO:HB2	1:B:1236:MET:HE2	2.03	0.41
1:B:2055:VAL:HG22	1:B:2194:TRP:CD1	2.55	0.41
1:B:2889:ILE:HB	1:B:2924:ILE:HG12	2.01	0.41
1:B:3062:HIS:H	1:B:3066:GLU:HG3	1.86	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:747:LEU:O	1:B:751:ARG:N	2.44	0.41
1:C:1687:PHE:CE1	1:C:1723:GLU:HG2	2.55	0.41
1:C:1719:LEU:O	1:C:1723:GLU:HB3	2.21	0.41
1:C:2098:THR:HG23	1:C:2099:GLN:N	2.36	0.41
1:C:2647:VAL:HA	1:C:2650:TRP:CD1	2.53	0.41
1:D:2697:HIS:CD2	1:C:2700:LEU:HD22	2.43	0.41
1:D:2737:VAL:HG23	1:C:2735:HIS:O	2.21	0.41
1:C:488:ASN:OD1	1:C:523:SER:OG	2.34	0.41
1:C:559:SER:O	1:C:563:ILE:HG12	2.20	0.41
1:D:1619:VAL:HA	1:D:1620:PRO:HD2	1.81	0.41
1:D:2205:ASP:O	1:D:2209:LEU:HB2	2.21	0.41
1:D:2422:GLU:CG	1:D:2422:GLU:O	2.69	0.41
1:D:3062:HIS:H	1:D:3066:GLU:HG3	1.86	0.41
1:D:436:THR:HG22	1:D:460:GLY:HA3	2.03	0.41
1:D:587:TRP:CZ2	1:D:694:ASP:OD2	2.74	0.41
1:E:1706:LYS:HA	1:E:1735:GLU:HG3	2.02	0.41
1:E:2010:GLN:OE1	1:E:2013:LEU:HD11	2.21	0.41
1:E:2286:ARG:HD3	1:E:2331:SER:OG	2.20	0.41
1:D:2014:SER:H	1:E:2591:ARG:NH1	2.19	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:E:2891:LYS:NZ	1:E:2903:GLU:HB3	2.35	0.41
1:E:2892:HIS:HA	1:E:2942:GLN:HE22	1.85	0.41
1:E:2483:VAL:HG13	1:E:2954:VAL:HG11	2.03	0.41
1:E:669:LYS:O	1:E:682:ASN:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:180:ALA:O	1:F:184:LEU:HG	2.21	0.41
1:F:793:ARG:HH12	1:F:2523:GLU:CD	2.24	0.41
1:F:2563:LEU:HD21	1:F:2567:PHE:HB2	2.02	0.41
1:F:2892:HIS:HA	1:F:2942:GLN:HE22	1.85	0.41
1:F:3057:ASP:OD1	1:F:3057:ASP:N	2.54	0.41
1:A:1087:PHE:CD1	1:B:198:ILE:HG23	2.56	0.41
1:A:1228:VAL:HB	1:A:1311:PHE:HB2	2.02	0.41
1:A:2452:ASP:CG	1:A:2453:LEU:H	2.23	0.41
1:A:793:ARG:HH12	1:A:2523:GLU:CD	2.24	0.41
1:A:2800:PHE:CZ	1:A:2812:LEU:HD13	2.55	0.41
1:A:2919:GLY:O	1:A:2921:PRO:HD3	2.21	0.41
1:A:436:THR:HG22	1:A:460:GLY:HA3	2.03	0.41
1:A:78:GLU:HB2	1:A:176:VAL:HG21	2.01	0.41
1:B:1087:PHE:CD1	1:C:198:ILE:HG23	2.56	0.41
1:B:2405:MET:O	1:B:2409:ALA:HB3	2.21	0.41
1:B:417:LEU:HD21	1:B:625:LEU:HD21	2.02	0.41
1:B:954:PRO:O	1:B:965:ASN:N	2.52	0.41
1:C:1133:VAL:N	1:C:1193:ALA:O	2.48	0.41
1:C:1460:ALA:O	1:C:1464:VAL:HG22	2.20	0.41
1:C:1637:VAL:HA	1:C:1638:PRO:HD2	1.91	0.41
1:C:2405:MET:O	1:C:2409:ALA:HB3	2.21	0.41
1:C:2530:TYR:O	1:C:2533:ALA:N	2.52	0.41
1:C:2618:SER:HB3	1:C:2786:ASP:OD1	2.21	0.41
1:C:2961:LEU:HD22	1:C:2976:TRP:HD1	1.85	0.41
1:C:336:TRP:HE3	1:C:339:GLU:OE2	2.03	0.41
1:C:709:LEU:HD11	1:C:872:ARG:CZ	2.51	0.41
1:D:1087:PHE:HD2	1:E:117:LYS:HZ1	1.68	0.41
1:D:1533:VAL:N	1:D:1543:ALA:O	2.52	0.41
1:D:1353:PRO:HB2	1:D:1707:SER:HB2	2.03	0.41
1:D:2098:THR:HG23	1:D:2099:GLN:N	2.36	0.41
1:D:656:THR:OG1	1:D:880:HIS:ND1	2.35	0.41
1:E:1133:VAL:O	1:E:1193:ALA:N	2.42	0.41
1:E:2647:VAL:HA	1:E:2650:TRP:CD1	2.53	0.41
1:E:2978:ARG:HG3	1:E:2979:GLU:HG3	2.03	0.41
1:E:594:LEU:O	1:E:598:TYR:HB2	2.21	0.41
1:F:2200:MET:HE3	1:F:2200:MET:HB3	1.96	0.41
1:F:2286:ARG:HD3	1:F:2331:SER:OG	2.20	0.41
1:F:2405:MET:O	1:F:2409:ALA:HB3	2.21	0.41
1:F:374:GLY:C	1:F:375:ILE:HG13	2.41	0.41
1:F:668:THR:HG23	1:F:683:GLY:HA3	2.02	0.41
1:A:957:LEU:O	1:A:1034:GLU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1986:LEU:HA	1:A:1989:PHE:CD2	2.56	0.41
1:A:2212:TRP:O	1:A:2229:LYS:HB3	2.21	0.41
1:A:2286:ARG:HD3	1:A:2331:SER:OG	2.20	0.41
1:A:2422:GLU:CG	1:A:2422:GLU:O	2.69	0.41
1:A:202:GLY:O	1:A:289:PRO:HD2	2.21	0.41
1:A:587:TRP:CZ2	1:A:694:ASP:OD2	2.74	0.41
1:B:1400:PRO:O	1:B:1415:GLY:HA2	2.21	0.41
1:B:1719:LEU:O	1:B:1723:GLU:HB3	2.21	0.41
1:B:2212:TRP:O	1:B:2229:LYS:HB3	2.21	0.41
1:A:2014:SER:H	1:B:2591:ARG:NH1	2.19	0.41
1:B:278:ARG:HD2	1:B:674:TRP:CE3	2.56	0.41
1:B:795:HIS:HE2	1:B:797:GLN:HB2	1.86	0.41
1:B:618:PRO:HB3	1:B:915:PHE:HA	2.02	0.41
1:C:1533:VAL:N	1:C:1543:ALA:O	2.52	0.41
1:C:2212:TRP:O	1:C:2229:LYS:HB3	2.21	0.41
1:C:2563:LEU:HD21	1:C:2567:PHE:HB2	2.02	0.41
1:D:2715:PRO:HD2	1:C:2737:VAL:HG11	2.02	0.41
1:C:2978:ARG:HG3	1:C:2979:GLU:HG3	2.03	0.41
1:C:3062:HIS:H	1:C:3066:GLU:HG3	1.86	0.41
1:D:2010:GLN:OE1	1:D:2013:LEU:HD11	2.21	0.41
1:D:709:LEU:HD11	1:D:872:ARG:CZ	2.51	0.41
1:D:795:HIS:HE2	1:D:797:GLN:HB2	1.86	0.41
1:E:1237:ARG:HG2	1:E:1237:ARG:HH11	1.86	0.41
1:D:1087:PHE:CD1	1:E:198:ILE:HG23	2.56	0.41
1:E:585:HIS:HB3	1:E:694:ASP:HB2	2.03	0.41
1:F:1687:PHE:CE1	1:F:1723:GLU:HG2	2.55	0.41
1:F:1702:GLU:OE1	1:F:1711:VAL:HG22	2.21	0.41
1:F:2205:ASP:O	1:F:2209:LEU:HB2	2.21	0.41
1:F:2618:SER:HB3	1:F:2786:ASP:OD1	2.21	0.41
1:F:3062:HIS:H	1:F:3066:GLU:CG	2.34	0.41
1:F:618:PRO:HB3	1:F:915:PHE:HA	2.02	0.41
1:F:417:LEU:HD21	1:F:625:LEU:HD21	2.02	0.41
1:F:795:HIS:HE2	1:F:797:GLN:HB2	1.86	0.41
1:F:959:ALA:CB	1:F:1127:GLU:C	2.89	0.41
1:A:163:LEU:HD21	1:A:181:LEU:HB3	2.04	0.40
1:A:180:ALA:O	1:A:184:LEU:HG	2.21	0.40
1:A:2889:ILE:HD12	1:A:2993:LEU:HD23	2.03	0.40
1:A:487:PHE:O	1:A:521:VAL:N	2.51	0.40
1:B:1017:ILE:HG12	1:B:1045:VAL:HG11	2.03	0.40
1:B:1237:ARG:HG2	1:B:1237:ARG:HH11	1.86	0.40
1:B:1099:PRO:HB2	1:B:1295:TRP:HE1	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1702:GLU:OE1	1:B:1711:VAL:HG22	2.22	0.40
1:E:2715:PRO:HD2	1:B:2737:VAL:HG11	2.02	0.40
1:B:2808:ARG:HH21	1:B:2901:PRO:HD3	1.85	0.40
1:B:793:ARG:HH12	1:B:2523:GLU:CD	2.24	0.40
1:C:133:GLN:O	1:C:137:VAL:HG23	2.21	0.40
1:C:1491:ASP:HB2	1:C:1495:ARG:HB2	2.02	0.40
1:C:1606:ASP:HA	1:C:1607:PRO:HD3	1.95	0.40
1:C:1353:PRO:HB2	1:C:1707:SER:HB2	2.04	0.40
1:C:2346:MET:O	1:C:2349:ASN:N	2.55	0.40
1:C:2672:TRP:CZ3	1:C:2830:LYS:HG2	2.56	0.40
1:C:2889:ILE:HD12	1:C:2993:LEU:HD23	2.03	0.40
1:D:488:ASN:OD1	1:D:523:SER:OG	2.34	0.40
1:D:585:HIS:HD2	1:D:586:SER:H	1.62	0.40
1:E:1504:ARG:HA	1:E:1505:PRO:HD2	1.94	0.40
1:E:2141:VAL:HG22	1:E:2238:PHE:CD2	2.56	0.40
1:E:2735:HIS:O	1:B:2737:VAL:HG23	2.21	0.40
1:E:336:TRP:HE1	1:E:364:THR:HG22	1.86	0.40
1:E:587:TRP:CZ2	1:E:694:ASP:OD2	2.74	0.40
1:E:756:LEU:HD13	1:E:859:PHE:CD2	2.55	0.40
1:E:709:LEU:HD11	1:E:872:ARG:CZ	2.51	0.40
1:F:1462:ALA:HB2	1:F:1468:TYR:CE1	2.56	0.40
1:F:2503:LYS:HG3	1:F:2513:TYR:HB2	2.02	0.40
1:F:2735:HIS:O	1:A:2737:VAL:HG23	2.21	0.40
1:A:142:ARG:HD3	1:A:142:ARG:HA	1.91	0.40
1:A:1702:GLU:OE1	1:A:1711:VAL:HG22	2.22	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:2483:VAL:HG13	1:A:2954:VAL:HG11	2.03	0.40
1:A:2672:TRP:CZ3	1:A:2830:LYS:HG2	2.56	0.40
1:B:1008:VAL:CG2	1:B:1008:VAL:O	2.67	0.40
1:B:1095:LEU:HD13	1:B:1289:PRO:CB	2.52	0.40
1:B:273:ARG:HD2	1:B:282:VAL:CG1	2.51	0.40
1:C:1462:ALA:HB2	1:C:1468:TYR:CE1	2.56	0.40
1:C:793:ARG:HH12	1:C:2523:GLU:CD	2.24	0.40
1:C:2831:MET:HE2	1:C:2831:MET:HB3	1.91	0.40
1:C:2919:GLY:O	1:C:2921:PRO:HD3	2.21	0.40
1:D:1008:VAL:O	1:D:1008:VAL:CG1	2.67	0.40
1:D:1719:LEU:O	1:D:1723:GLU:HB3	2.21	0.40
1:D:793:ARG:HH12	1:D:2523:GLU:CD	2.24	0.40
1:D:618:PRO:HB3	1:D:915:PHE:HA	2.02	0.40
1:E:1400:PRO:O	1:E:1415:GLY:HA2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2492:VAL:HG12	1:E:2526:ILE:HG22	2.02	0.40
1:E:2737:VAL:HG23	1:B:2735:HIS:O	2.21	0.40
1:E:273:ARG:HD2	1:E:282:VAL:CG1	2.51	0.40
1:E:2865:ARG:HD2	1:B:2674:HIS:NE2	2.37	0.40
1:E:2961:LEU:HD22	1:E:2976:TRP:HD1	1.85	0.40
1:E:358:ASP:OD2	1:E:361:THR:HB	2.21	0.40
1:E:374:GLY:C	1:E:375:ILE:HG13	2.41	0.40
1:F:1237:ARG:HH11	1:F:1237:ARG:HG2	1.86	0.40
1:F:1271:LEU:HB3	1:F:1337:MET:SD	2.62	0.40
1:F:1719:LEU:O	1:F:1723:GLU:HB3	2.22	0.40
1:F:2141:VAL:HG22	1:F:2238:PHE:CD2	2.56	0.40
1:A:1400:PRO:O	1:A:1415:GLY:HA2	2.21	0.40
1:A:1706:LYS:HA	1:A:1735:GLU:HG3	2.03	0.40
1:A:2503:LYS:HE2	1:A:2514:ASP:O	2.22	0.40
1:A:2492:VAL:HG12	1:A:2526:ILE:HG22	2.02	0.40
1:A:2557:LEU:HD23	1:A:2558:LEU:N	2.37	0.40
1:A:381:ARG:O	1:A:385:ARG:HG3	2.22	0.40
1:A:794:LEU:HD12	1:A:830:TYR:HB3	2.04	0.40
1:B:1070:VAL:N	1:B:1152:PHE:O	2.52	0.40
1:B:1399:ASN:HA	1:B:1400:PRO:HD3	1.86	0.40
1:B:1598:GLU:HG2	1:B:1666:ILE:HG21	2.04	0.40
1:B:2422:GLU:O	1:B:2422:GLU:CG	2.69	0.40
1:E:2697:HIS:CD2	1:B:2700:LEU:HD22	2.43	0.40
1:B:2961:LEU:HD13	1:B:2976:TRP:CD1	2.57	0.40
1:B:594:LEU:O	1:B:598:TYR:HB2	2.21	0.40
1:B:587:TRP:CZ2	1:B:694:ASP:OD2	2.74	0.40
1:C:1611:ILE:HG23	1:C:1624:THR:HA	2.02	0.40
1:C:2141:VAL:HG22	1:C:2238:PHE:CD2	2.56	0.40
1:C:233:LEU:HB3	1:C:251:THR:OG1	2.21	0.40
1:C:3057:ASP:OD1	1:C:3057:ASP:N	2.54	0.40
1:C:278:ARG:HD2	1:C:674:TRP:HE3	1.87	0.40
1:D:1616:PRO:HG2	1:D:1619:VAL:HB	2.04	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:D:2978:ARG:HG3	1:D:2979:GLU:HG3	2.03	0.40
1:D:408:VAL:HG23	1:D:418:GLU:HB2	2.03	0.40
1:E:1271:LEU:HB3	1:E:1337:MET:SD	2.62	0.40
1:E:2555:SER:HA	1:E:2556:PRO:HD2	1.85	0.40
1:E:278:ARG:HD2	1:E:674:TRP:HE3	1.87	0.40
1:E:360:LEU:HA	1:E:363:LEU:HB3	2.03	0.40
1:E:795:HIS:HE2	1:E:797:GLN:HB2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1616:PRO:HG2	1:F:1619:VAL:HB	2.04	0.40
1:F:2737:VAL:HG11	1:A:2715:PRO:HD2	2.02	0.40
1:F:3062:HIS:H	1:F:3066:GLU:HG3	1.86	0.40
1:F:360:LEU:HA	1:F:363:LEU:HB3	2.03	0.40
1:F:428:SER:HA	1:F:429:PRO:HD3	1.94	0.40
1:F:839:HIS:HA	1:F:840:PRO:HD3	1.99	0.40
1:F:956:VAL:HA	1:F:1034:GLU:OE1	2.20	0.40
1:A:1237:ARG:HH11	1:A:1237:ARG:HG2	1.86	0.40
1:A:133:GLN:O	1:A:137:VAL:HG23	2.21	0.40
1:A:1504:ARG:HA	1:A:1505:PRO:HD2	1.93	0.40
1:A:1535:PHE:O	1:A:1679:TRP:N	2.48	0.40
1:A:198:ILE:HG23	1:C:1087:PHE:CD1	2.56	0.40
1:A:2299:MET:H	1:A:2299:MET:HG2	1.68	0.40
1:A:260:LEU:HD13	1:C:1725:SER:CB	2.51	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:1604:ASP:OD1	1:B:1604:ASP:N	2.55	0.40
1:B:2346:MET:O	1:B:2349:ASN:N	2.55	0.40
1:B:233:LEU:HB3	1:B:251:THR:OG1	2.21	0.40
1:B:2647:VAL:HA	1:B:2650:TRP:CD1	2.53	0.40
1:B:2672:TRP:CZ3	1:B:2830:LYS:HG2	2.56	0.40
1:B:2618:SER:HB3	1:B:2786:ASP:OD1	2.21	0.40
1:B:3062:HIS:H	1:B:3066:GLU:CG	2.34	0.40
1:C:1095:LEU:HD13	1:C:1289:PRO:CB	2.52	0.40
1:C:1360:LYS:HD2	1:C:1398:ASP:HA	2.04	0.40
1:C:1629:PHE:O	1:C:1633:ILE:HG13	2.22	0.40
1:C:273:ARG:HD2	1:C:282:VAL:CG1	2.51	0.40
1:C:669:LYS:O	1:C:682:ASN:HB3	2.20	0.40
1:D:1462:ALA:HB2	1:D:1468:TYR:CE1	2.56	0.40
1:D:1580:PRO:O	1:D:1583:SER:OG	2.23	0.40
1:D:1656:LYS:HE2	1:D:1660:LEU:HD21	2.03	0.40
1:D:3057:ASP:N	1:D:3057:ASP:OD1	2.54	0.40
1:D:544:ILE:C	1:D:546:HIS:H	2.22	0.40
1:E:163:LEU:HD21	1:E:181:LEU:HB3	2.04	0.40
1:E:1719:LEU:O	1:E:1723:GLU:HB3	2.21	0.40
1:E:2098:THR:HG23	1:E:2099:GLN:N	2.36	0.40
1:E:2495:LEU:HA	1:E:2495:LEU:HD23	1.89	0.40
1:E:2557:LEU:HD23	1:E:2558:LEU:N	2.37	0.40
1:E:2574:GLU:HG3	1:E:2599:TRP:CE2	2.57	0.40
1:E:794:LEU:HD12	1:E:830:TYR:HB3	2.04	0.40
1:F:1095:LEU:HD13	1:F:1289:PRO:CB	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:959:ALA:CB	1:F:1127:GLU:N	2.74	0.40
1:F:1400:PRO:O	1:F:1415:GLY:HA2	2.21	0.40
1:F:2010:GLN:OE1	1:F:2013:LEU:HD11	2.21	0.40
1:F:2212:TRP:O	1:F:2229:LYS:HB3	2.21	0.40
1:F:2346:MET:O	1:F:2349:ASN:N	2.55	0.40
1:F:2352:ILE:HG21	1:F:2412:ALA:HB2	2.04	0.40
1:F:2422:GLU:CG	1:F:2422:GLU:O	2.69	0.40
1:F:2503:LYS:HE2	1:F:2514:ASP:O	2.22	0.40
1:F:2891:LYS:HZ1	1:F:2904:THR:N	2.19	0.40
1:F:336:TRP:HE1	1:F:364:THR:HG22	1.86	0.40
1:A:1070:VAL:N	1:A:1152:PHE:O	2.52	0.40
1:A:1291:LYS:HZ2	1:A:1346:PRO:N	2.20	0.40
1:A:1460:ALA:O	1:A:1464:VAL:HG22	2.20	0.40
1:A:1487:ILE:HG12	1:A:1487:ILE:H	1.75	0.40
1:A:1989:PHE:O	1:A:1992:LYS:HG2	2.22	0.40
1:A:2141:VAL:HG22	1:A:2238:PHE:CD2	2.56	0.40
1:F:2865:ARG:HD2	1:A:2674:HIS:NE2	2.37	0.40
1:A:278:ARG:HD2	1:A:674:TRP:CE3	2.56	0.40
1:A:336:TRP:HE1	1:A:364:THR:HG22	1.86	0.40
1:A:90:LEU:HD22	1:A:93:VAL:HB	2.04	0.40
1:B:1500:LEU:HD23	1:B:1574:VAL:HG21	2.03	0.40
1:B:1616:PRO:HG2	1:B:1619:VAL:HB	2.04	0.40
1:B:163:LEU:HD21	1:B:181:LEU:HB3	2.04	0.40
1:B:2098:THR:HG23	1:B:2099:GLN:N	2.36	0.40
1:B:2530:TYR:O	1:B:2533:ALA:N	2.52	0.40
1:B:2611:VAL:HA	1:B:2612:PRO:HD3	1.86	0.40
1:E:2674:HIS:NE2	1:B:2865:ARG:HD2	2.37	0.40
1:B:202:GLY:O	1:B:289:PRO:HD2	2.21	0.40
1:B:2978:ARG:HG3	1:B:2979:GLU:HG3	2.03	0.40
1:B:668:THR:HG23	1:B:683:GLY:HA3	2.02	0.40
1:C:180:ALA:O	1:C:184:LEU:HG	2.21	0.40
1:C:2010:GLN:OE1	1:C:2013:LEU:HD11	2.21	0.40
1:C:2422:GLU:CG	1:C:2422:GLU:O	2.69	0.40
1:C:2483:VAL:HG13	1:C:2954:VAL:HG11	2.03	0.40
1:C:2574:GLU:HG3	1:C:2599:TRP:CE2	2.57	0.40
1:D:2843:GLN:HE22	1:C:2758:LYS:HB3	1.87	0.40
1:C:3062:HIS:H	1:C:3066:GLU:CG	2.34	0.40
1:C:436:THR:HG22	1:C:460:GLY:HA3	2.03	0.40
1:C:594:LEU:O	1:C:598:TYR:HB2	2.21	0.40
1:C:795:HIS:HE2	1:C:797:GLN:HB2	1.86	0.40
1:D:1095:LEU:HD13	1:D:1289:PRO:CB	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2697:HIS:HE1	1:D:2773:GLU:OE2	2.05	0.40
1:D:2737:VAL:HG11	1:C:2715:PRO:HD2	2.02	0.40
1:D:745:THR:HG22	1:D:747:LEU:N	2.37	0.40
1:E:1535:PHE:O	1:E:1679:TRP:N	2.48	0.40
1:E:1606:ASP:HA	1:E:1607:PRO:HD3	1.95	0.40
1:E:1656:LYS:HE2	1:E:1660:LEU:HD21	2.03	0.40
1:E:2891:LYS:HZ1	1:E:2904:THR:N	2.20	0.40
1:E:745:THR:HG22	1:E:747:LEU:N	2.37	0.40
1:F:1133:VAL:N	1:F:1193:ALA:O	2.48	0.40
1:F:1353:PRO:HB2	1:F:1707:SER:HB2	2.03	0.40
1:F:1399:ASN:HA	1:F:1400:PRO:HD3	1.86	0.40
1:F:2211:GLU:O	1:F:2215:THR:OG1	2.39	0.40
1:F:2645:ASP:OD2	1:F:2691:SER:HB2	2.22	0.40
1:F:2770:LEU:CB	1:F:2815:GLN:HB3	2.51	0.40
1:F:2672:TRP:CZ3	1:F:2830:LYS:HG2	2.56	0.40
1:F:2961:LEU:HD22	1:F:2976:TRP:HD1	1.85	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

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%)	2642 (94%)	157 (6%)	19 (1%)	25	68
1	B	2818/3089 (91%)	2642 (94%)	158 (6%)	18 (1%)	28	71
1	C	2818/3089 (91%)	2642 (94%)	157 (6%)	19 (1%)	25	68
1	D	2448/3089 (79%)	2293 (94%)	138 (6%)	17 (1%)	25	68
1	E	2818/3089 (91%)	2641 (94%)	159 (6%)	18 (1%)	28	71
1	F	2818/3089 (91%)	2630 (93%)	163 (6%)	25 (1%)	20	63

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	16538/18534 (89%)	15490 (94%)	932 (6%)	116 (1%)	30	68

All (116) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
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	1041	ALA
1	F	1043	ARG
1	F	1148	GLU
1	F	2428	PRO
1	F	2436	PRO
1	F	2446	PRO
1	F	2448	PRO
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

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Mol	Chain	Res	Type
1	C	2448	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	990	PRO
1	A	1009	PRO
1	B	990	PRO
1	B	1009	PRO
1	C	990	PRO
1	C	1009	PRO
1	D	1724	TYR
1	E	1724	TYR
1	F	1724	TYR
1	A	1724	TYR
1	B	1652	TRP
1	B	1724	TYR
1	C	1724	TYR
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
1	F	149	ALA
1	F	1034	GLU
1	F	1205	ASP
1	F	1652	TRP
1	F	1705	VAL
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	1705	VAL
1	C	149	ALA
1	C	1205	ASP
1	C	1652	TRP

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Mol	Chain	Res	Type
1	C	1705	VAL
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	1038	ALA
1	F	1221	PRO
1	F	2444	PRO
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	F	959	ALA
1	F	1040	THR
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	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	2585	PRO
1	F	2585	PRO
1	A	2585	PRO
1	C	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	2096/2402 (87%)	1994 (95%)	102 (5%)	29	61
1	B	2096/2402 (87%)	1993 (95%)	103 (5%)	29	61
1	C	2095/2402 (87%)	1993 (95%)	102 (5%)	29	61
1	D	1808/2402 (75%)	1720 (95%)	88 (5%)	29	61
1	E	2097/2402 (87%)	1995 (95%)	102 (5%)	29	61
1	F	2097/2402 (87%)	1992 (95%)	105 (5%)	28	60
All	All	12289/14412 (85%)	11687 (95%)	602 (5%)	33	61

All (602) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	409	LYS
1	D	424	LEU
1	D	427	ARG
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	606	ASN
1	D	621	SER
1	D	638	MET
1	D	644	LEU
1	D	654	GLU
1	D	694	ASP
1	D	696	HIS
1	D	699	ASP
1	D	791	GLU
1	D	857	VAL
1	D	930	PRO
1	D	990	PRO
1	D	1009	PRO
1	D	1021	LEU
1	D	1096	THR
1	D	1105	ARG

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Mol	Chain	Res	Type
1	D	1127	GLU
1	D	1162	THR
1	D	1206	PRO
1	D	1221	PRO
1	D	1253	ARG
1	D	1358	GLN
1	D	1421	GLN
1	D	1468	TYR
1	D	1471	GLU
1	D	1488	VAL
1	D	1508	ILE
1	D	1544	ILE
1	D	1551	LEU
1	D	1564	ILE
1	D	1618	LEU
1	D	1651	THR
1	D	1662	ARG
1	D	1672	GLN
1	D	1673	PHE
1	D	1745	ASP
1	D	2059	ARG
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	2294	SER
1	D	2297	ARG
1	D	2299	MET
1	D	2303	ASP
1	D	2306	TYR
1	D	2395	THR
1	D	2401	ILE
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	2620	THR

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Mol	Chain	Res	Type
1	D	2692	MET
1	D	2742	THR
1	D	2784	THR
1	D	2800	PHE
1	D	2802	ARG
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	3001	HIS
1	D	3019	ASP
1	D	3076	SER
1	D	3077	THR
1	D	3080	ARG
1	E	90	LEU
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	342	GLU
1	E	344	HIS
1	E	358	ASP
1	E	361	THR
1	E	389	THR
1	E	390	VAL
1	E	400	TRP
1	E	409	LYS
1	E	424	LEU
1	E	427	ARG
1	E	439	THR
1	E	456	GLU
1	E	517	ILE
1	E	544	ILE
1	E	580	ARG

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Mol	Chain	Res	Type
1	E	584	HIS
1	E	595	LEU
1	E	606	ASN
1	E	621	SER
1	E	638	MET
1	E	644	LEU
1	E	654	GLU
1	E	694	ASP
1	E	696	HIS
1	E	699	ASP
1	E	791	GLU
1	E	857	VAL
1	E	930	PRO
1	E	990	PRO
1	E	1009	PRO
1	E	1021	LEU
1	E	1096	THR
1	E	1105	ARG
1	E	1127	GLU
1	E	1162	THR
1	E	1206	PRO
1	E	1221	PRO
1	E	1253	ARG
1	E	1358	GLN
1	E	1421	GLN
1	E	1468	TYR
1	E	1471	GLU
1	E	1488	VAL
1	E	1508	ILE
1	E	1544	ILE
1	E	1551	LEU
1	E	1564	ILE
1	E	1618	LEU
1	E	1651	THR
1	E	1662	ARG
1	E	1672	GLN
1	E	1673	PHE
1	E	1745	ASP
1	E	2059	ARG
1	E	2067	LEU
1	E	2070	LEU
1	E	2129	PRO

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Mol	Chain	Res	Type
1	E	2192	THR
1	E	2196	VAL
1	E	2209	LEU
1	E	2294	SER
1	E	2297	ARG
1	E	2299	MET
1	E	2303	ASP
1	E	2306	TYR
1	E	2395	THR
1	E	2401	ILE
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	2620	THR
1	E	2692	MET
1	E	2742	THR
1	E	2784	THR
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	3001	HIS
1	E	3019	ASP
1	E	3076	SER
1	E	3077	THR
1	E	3080	ARG
1	F	90	LEU
1	F	208	VAL
1	F	209	SER
1	F	232	VAL

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Mol	Chain	Res	Type
1	F	233	LEU
1	F	248	ILE
1	F	251	THR
1	F	342	GLU
1	F	344	HIS
1	F	358	ASP
1	F	361	THR
1	F	389	THR
1	F	390	VAL
1	F	400	TRP
1	F	409	LYS
1	F	424	LEU
1	F	427	ARG
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	606	ASN
1	F	621	SER
1	F	638	MET
1	F	644	LEU
1	F	654	GLU
1	F	694	ASP
1	F	696	HIS
1	F	699	ASP
1	F	791	GLU
1	F	857	VAL
1	F	930	PRO
1	F	958	TRP
1	F	990	PRO
1	F	1009	PRO
1	F	1021	LEU
1	F	1034	GLU
1	F	1040	THR
1	F	1096	THR
1	F	1105	ARG
1	F	1127	GLU
1	F	1162	THR
1	F	1206	PRO

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Mol	Chain	Res	Type
1	F	1221	PRO
1	F	1253	ARG
1	F	1358	GLN
1	F	1421	GLN
1	F	1468	TYR
1	F	1471	GLU
1	F	1488	VAL
1	F	1508	ILE
1	F	1544	ILE
1	F	1551	LEU
1	F	1564	ILE
1	F	1618	LEU
1	F	1651	THR
1	F	1662	ARG
1	F	1672	GLN
1	F	1673	PHE
1	F	1745	ASP
1	F	2059	ARG
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	2294	SER
1	F	2297	ARG
1	F	2299	MET
1	F	2303	ASP
1	F	2306	TYR
1	F	2395	THR
1	F	2401	ILE
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	2620	THR
1	F	2692	MET
1	F	2742	THR
1	F	2784	THR

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Mol	Chain	Res	Type
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	3001	HIS
1	F	3019	ASP
1	F	3076	SER
1	F	3077	THR
1	F	3080	ARG
1	A	90	LEU
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	342	GLU
1	A	344	HIS
1	A	358	ASP
1	A	361	THR
1	A	389	THR
1	A	390	VAL
1	A	400	TRP
1	A	409	LYS
1	A	424	LEU
1	A	427	ARG
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	606	ASN

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Mol	Chain	Res	Type
1	A	621	SER
1	A	638	MET
1	A	644	LEU
1	A	654	GLU
1	A	694	ASP
1	A	696	HIS
1	A	699	ASP
1	A	791	GLU
1	A	857	VAL
1	A	930	PRO
1	A	990	PRO
1	A	1009	PRO
1	A	1021	LEU
1	A	1096	THR
1	A	1105	ARG
1	A	1127	GLU
1	A	1162	THR
1	A	1206	PRO
1	A	1221	PRO
1	A	1253	ARG
1	A	1358	GLN
1	A	1421	GLN
1	A	1468	TYR
1	A	1471	GLU
1	A	1488	VAL
1	A	1508	ILE
1	A	1544	ILE
1	A	1551	LEU
1	A	1564	ILE
1	A	1618	LEU
1	A	1651	THR
1	A	1662	ARG
1	A	1672	GLN
1	A	1673	PHE
1	A	1745	ASP
1	A	2059	ARG
1	A	2067	LEU
1	A	2070	LEU
1	A	2129	PRO
1	A	2192	THR
1	A	2196	VAL
1	A	2209	LEU

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Mol	Chain	Res	Type
1	A	2294	SER
1	A	2297	ARG
1	A	2299	MET
1	A	2303	ASP
1	A	2306	TYR
1	A	2395	THR
1	A	2401	ILE
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	2620	THR
1	A	2692	MET
1	A	2742	THR
1	A	2784	THR
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	3001	HIS
1	A	3019	ASP
1	A	3076	SER
1	A	3077	THR
1	A	3080	ARG
1	B	90	LEU
1	B	208	VAL
1	B	209	SER
1	B	232	VAL
1	B	233	LEU
1	B	248	ILE
1	B	251	THR

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Mol	Chain	Res	Type
1	B	342	GLU
1	B	344	HIS
1	B	358	ASP
1	B	361	THR
1	B	389	THR
1	B	390	VAL
1	B	400	TRP
1	B	409	LYS
1	B	424	LEU
1	B	427	ARG
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	606	ASN
1	B	621	SER
1	B	638	MET
1	B	644	LEU
1	B	654	GLU
1	B	694	ASP
1	B	696	HIS
1	B	699	ASP
1	B	791	GLU
1	B	857	VAL
1	B	930	PRO
1	B	990	PRO
1	B	1009	PRO
1	B	1021	LEU
1	B	1096	THR
1	B	1105	ARG
1	B	1127	GLU
1	B	1162	THR
1	B	1206	PRO
1	B	1221	PRO
1	B	1253	ARG
1	B	1358	GLN
1	B	1401	THR
1	B	1421	GLN
1	B	1468	TYR

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Mol	Chain	Res	Type
1	B	1471	GLU
1	B	1488	VAL
1	B	1508	ILE
1	B	1544	ILE
1	B	1551	LEU
1	B	1564	ILE
1	B	1618	LEU
1	B	1651	THR
1	B	1662	ARG
1	B	1672	GLN
1	B	1673	PHE
1	B	1745	ASP
1	B	2059	ARG
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	2294	SER
1	B	2297	ARG
1	B	2299	MET
1	B	2303	ASP
1	B	2306	TYR
1	B	2395	THR
1	B	2401	ILE
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	2620	THR
1	B	2692	MET
1	B	2742	THR
1	B	2784	THR
1	B	2800	PHE
1	B	2802	ARG
1	B	2809	LEU
1	B	2827	LEU
1	B	2861	LEU

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Mol	Chain	Res	Type
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	3001	HIS
1	B	3019	ASP
1	B	3076	SER
1	B	3077	THR
1	B	3080	ARG
1	C	90	LEU
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	342	GLU
1	C	344	HIS
1	C	358	ASP
1	C	361	THR
1	C	389	THR
1	C	390	VAL
1	C	400	TRP
1	C	409	LYS
1	C	424	LEU
1	C	427	ARG
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	606	ASN
1	C	621	SER
1	C	638	MET
1	C	644	LEU
1	C	654	GLU
1	C	694	ASP

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Mol	Chain	Res	Type
1	C	696	HIS
1	C	699	ASP
1	C	791	GLU
1	C	857	VAL
1	C	930	PRO
1	C	990	PRO
1	C	1009	PRO
1	C	1021	LEU
1	C	1096	THR
1	C	1105	ARG
1	C	1127	GLU
1	C	1162	THR
1	C	1206	PRO
1	C	1221	PRO
1	C	1253	ARG
1	C	1358	GLN
1	C	1421	GLN
1	C	1468	TYR
1	C	1471	GLU
1	C	1488	VAL
1	C	1508	ILE
1	C	1544	ILE
1	C	1551	LEU
1	C	1564	ILE
1	C	1618	LEU
1	C	1651	THR
1	C	1662	ARG
1	C	1672	GLN
1	C	1673	PHE
1	C	1745	ASP
1	C	2059	ARG
1	C	2067	LEU
1	C	2070	LEU
1	C	2129	PRO
1	C	2192	THR
1	C	2196	VAL
1	C	2209	LEU
1	C	2294	SER
1	C	2297	ARG
1	C	2299	MET
1	C	2303	ASP
1	C	2306	TYR

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Mol	Chain	Res	Type
1	C	2395	THR
1	C	2401	ILE
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	2620	THR
1	C	2692	MET
1	C	2742	THR
1	C	2784	THR
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
1	C	3001	HIS
1	C	3019	ASP
1	C	3076	SER
1	C	3077	THR
1	C	3080	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (136) such sidechains are listed below:

Mol	Chain	Res	Type
1	D	486	GLN
1	D	540	ASN
1	D	575	HIS
1	D	585	HIS
1	D	606	ASN
1	D	1057	ASN
1	D	1134	HIS
1	D	1276	GLN

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Mol	Chain	Res	Type
1	D	1277	HIS
1	D	1355	GLN
1	D	1582	HIS
1	D	1617	ASN
1	D	1672	GLN
1	D	2288	HIS
1	D	2296	ASN
1	D	2334	HIS
1	D	2349	ASN
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	386	ASN
1	E	486	GLN
1	E	540	ASN
1	E	585	HIS
1	E	1057	ASN
1	E	1134	HIS
1	E	1276	GLN
1	E	1277	HIS
1	E	1355	GLN
1	E	1534	ASN
1	E	1582	HIS
1	E	1617	ASN
1	E	1672	GLN
1	E	2288	HIS
1	E	2334	HIS
1	E	2349	ASN
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
1	F	540	ASN
1	F	575	HIS
1	F	585	HIS

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Mol	Chain	Res	Type
1	F	682	ASN
1	F	1057	ASN
1	F	1134	HIS
1	F	1276	GLN
1	F	1277	HIS
1	F	1355	GLN
1	F	1394	HIS
1	F	1582	HIS
1	F	1617	ASN
1	F	1672	GLN
1	F	2288	HIS
1	F	2334	HIS
1	F	2349	ASN
1	F	2651	ASN
1	F	2815	GLN
1	F	2850	HIS
1	F	2927	GLN
1	F	2942	GLN
1	F	2973	HIS
1	A	386	ASN
1	A	486	GLN
1	A	540	ASN
1	A	575	HIS
1	A	585	HIS
1	A	1057	ASN
1	A	1134	HIS
1	A	1276	GLN
1	A	1277	HIS
1	A	1355	GLN
1	A	1582	HIS
1	A	1617	ASN
1	A	1672	GLN
1	A	2288	HIS
1	A	2334	HIS
1	A	2349	ASN
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

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Mol	Chain	Res	Type
1	B	486	GLN
1	B	540	ASN
1	B	575	HIS
1	B	585	HIS
1	B	1057	ASN
1	B	1134	HIS
1	B	1276	GLN
1	B	1277	HIS
1	B	1355	GLN
1	B	1582	HIS
1	B	1617	ASN
1	B	1672	GLN
1	B	2288	HIS
1	B	2296	ASN
1	B	2334	HIS
1	B	2349	ASN
1	B	2651	ASN
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	575	HIS
1	C	585	HIS
1	C	1057	ASN
1	C	1134	HIS
1	C	1276	GLN
1	C	1277	HIS
1	C	1355	GLN
1	C	1582	HIS
1	C	1617	ASN
1	C	1672	GLN
1	C	2288	HIS
1	C	2334	HIS
1	C	2349	ASN
1	C	2651	ASN
1	C	2815	GLN
1	C	2850	HIS
1	C	2927	GLN

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Mol	Chain	Res	Type
1	C	2942	GLN
1	C	2973	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

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	-	31,33,33	1.35	4 (12%)	38,50,50	1.51	6 (15%)
2	FMN	B	4000	-	31,33,33	1.35	4 (12%)	38,50,50	1.50	6 (15%)
2	FMN	C	4000	-	31,33,33	1.36	4 (12%)	38,50,50	1.49	6 (15%)
2	FMN	D	4000	-	31,33,33	1.35	4 (12%)	38,50,50	1.52	6 (15%)
2	FMN	E	4000	-	31,33,33	1.35	4 (12%)	38,50,50	1.50	6 (15%)
2	FMN	F	4000	-	31,33,33	1.34	4 (12%)	38,50,50	1.50	6 (15%)

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	-	-	0/16/18/18	0/3/3/3
2	FMN	B	4000	-	-	0/16/18/18	0/3/3/3
2	FMN	C	4000	-	-	0/16/18/18	0/3/3/3
2	FMN	D	4000	-	-	0/16/18/18	0/3/3/3
2	FMN	E	4000	-	-	0/16/18/18	0/3/3/3
2	FMN	F	4000	-	-	0/16/18/18	0/3/3/3

All (24) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	4000	FMN	C5A-N5	2.27	1.38	1.35
2	E	4000	FMN	C5A-N5	2.31	1.38	1.35
2	A	4000	FMN	C5A-N5	2.31	1.38	1.35
2	F	4000	FMN	C5A-N5	2.32	1.38	1.35
2	C	4000	FMN	C5A-N5	2.35	1.38	1.35
2	D	4000	FMN	C5A-N5	2.36	1.38	1.35
2	B	4000	FMN	C4-N3	3.10	1.38	1.33
2	A	4000	FMN	C4-N3	3.12	1.38	1.33
2	F	4000	FMN	C4-N3	3.13	1.38	1.33
2	E	4000	FMN	C4-N3	3.13	1.38	1.33
2	D	4000	FMN	C4-N3	3.13	1.38	1.33
2	F	4000	FMN	C10-N1	3.15	1.37	1.33
2	C	4000	FMN	C4-N3	3.16	1.38	1.33
2	A	4000	FMN	C10-N1	3.20	1.37	1.33
2	D	4000	FMN	C10-N1	3.22	1.37	1.33
2	B	4000	FMN	C10-N1	3.23	1.37	1.33
2	E	4000	FMN	C10-N1	3.25	1.37	1.33
2	C	4000	FMN	C10-N1	3.31	1.37	1.33
2	C	4000	FMN	C4A-N5	3.70	1.38	1.33
2	F	4000	FMN	C4A-N5	3.71	1.38	1.33
2	D	4000	FMN	C4A-N5	3.72	1.38	1.33
2	E	4000	FMN	C4A-N5	3.75	1.38	1.33
2	A	4000	FMN	C4A-N5	3.76	1.38	1.33
2	B	4000	FMN	C4A-N5	3.83	1.38	1.33

All (36) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	4000	FMN	C4A-C4-N3	-2.60	119.78	123.48
2	A	4000	FMN	C4A-C4-N3	-2.60	119.78	123.48
2	F	4000	FMN	C4A-C4-N3	-2.60	119.78	123.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	4000	FMN	C4A-C4-N3	-2.57	119.82	123.48
2	B	4000	FMN	C4A-C4-N3	-2.57	119.83	123.48
2	C	4000	FMN	C4A-C4-N3	-2.53	119.89	123.48
2	F	4000	FMN	C4-C4A-N5	2.47	121.39	118.68
2	A	4000	FMN	C4-C4A-N5	2.49	121.41	118.68
2	C	4000	FMN	C4-C4A-N5	2.51	121.43	118.68
2	B	4000	FMN	C4-C4A-N5	2.54	121.47	118.68
2	D	4000	FMN	C4-C4A-N5	2.55	121.48	118.68
2	E	4000	FMN	C4-C4A-N5	2.56	121.49	118.68
2	E	4000	FMN	C5A-C9A-N10	2.81	119.75	117.66
2	C	4000	FMN	C5A-C9A-N10	2.81	119.75	117.66
2	B	4000	FMN	C5A-C9A-N10	2.86	119.78	117.66
2	A	4000	FMN	C5A-C9A-N10	2.87	119.79	117.66
2	F	4000	FMN	C5A-C9A-N10	2.89	119.80	117.66
2	D	4000	FMN	C5A-C9A-N10	2.94	119.84	117.66
2	F	4000	FMN	C4A-N5-C5A	2.98	119.90	116.76
2	B	4000	FMN	C4A-N5-C5A	2.98	119.90	116.76
2	A	4000	FMN	C4A-N5-C5A	2.99	119.92	116.76
2	C	4000	FMN	C4A-N5-C5A	3.01	119.94	116.76
2	D	4000	FMN	C4A-N5-C5A	3.05	119.98	116.76
2	E	4000	FMN	C4A-N5-C5A	3.06	120.00	116.76
2	B	4000	FMN	C1'-N10-C9A	3.10	121.19	118.35
2	C	4000	FMN	C1'-N10-C9A	3.11	121.20	118.35
2	F	4000	FMN	C1'-N10-C9A	3.14	121.22	118.35
2	E	4000	FMN	C1'-N10-C9A	3.14	121.22	118.35
2	D	4000	FMN	C1'-N10-C9A	3.16	121.24	118.35
2	A	4000	FMN	C1'-N10-C9A	3.17	121.25	118.35
2	C	4000	FMN	C4-N3-C2	5.61	120.06	115.16
2	E	4000	FMN	C4-N3-C2	5.66	120.11	115.16
2	F	4000	FMN	C4-N3-C2	5.69	120.13	115.16
2	D	4000	FMN	C4-N3-C2	5.73	120.17	115.16
2	B	4000	FMN	C4-N3-C2	5.73	120.17	115.16
2	A	4000	FMN	C4-N3-C2	5.74	120.18	115.16

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6 monomers are involved in 24 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	4000	FMN	4	0

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

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.