



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 11:05 PM UTC

PDB ID : 3QMZ / pdb_00003qmz
Title : Crystal structure of the cytoplasmic dynein heavy chain motor domain
Authors : Cho, C.; Carter, A.P.; Jin, L.; Vale, R.D.
Deposited on : 2011-02-07
Resolution : 6.00 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

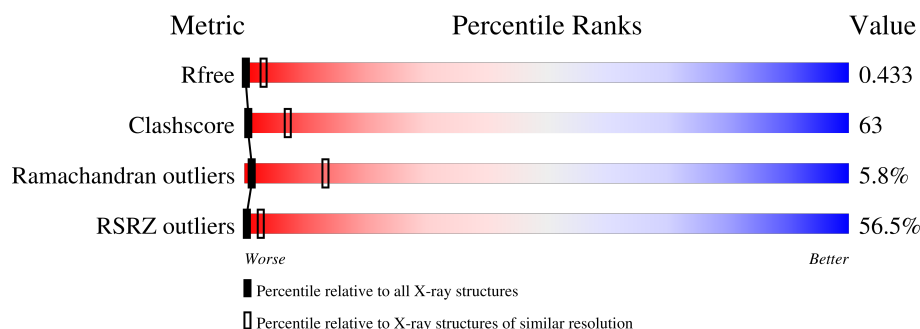
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 6.00 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1143 (8.00-4.00)
Clashscore	190562	1210 (8.00-4.00)
Ramachandran outliers	187476	1034 (8.00-4.00)
RSRZ outliers	180081	1136 (8.00-4.00)

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

Mol	Chain	Length	Quality of chain
1	A	2486	45% 50% 20% 12% • 14%
1	B	2486	49% 50% 20% 12% • 14%
2	S	219	78% 89% 7% ...
2	T	219	66% 87% 11% •

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 23302 atoms, of which 0 are hydrogens and 0 are deuteriums.

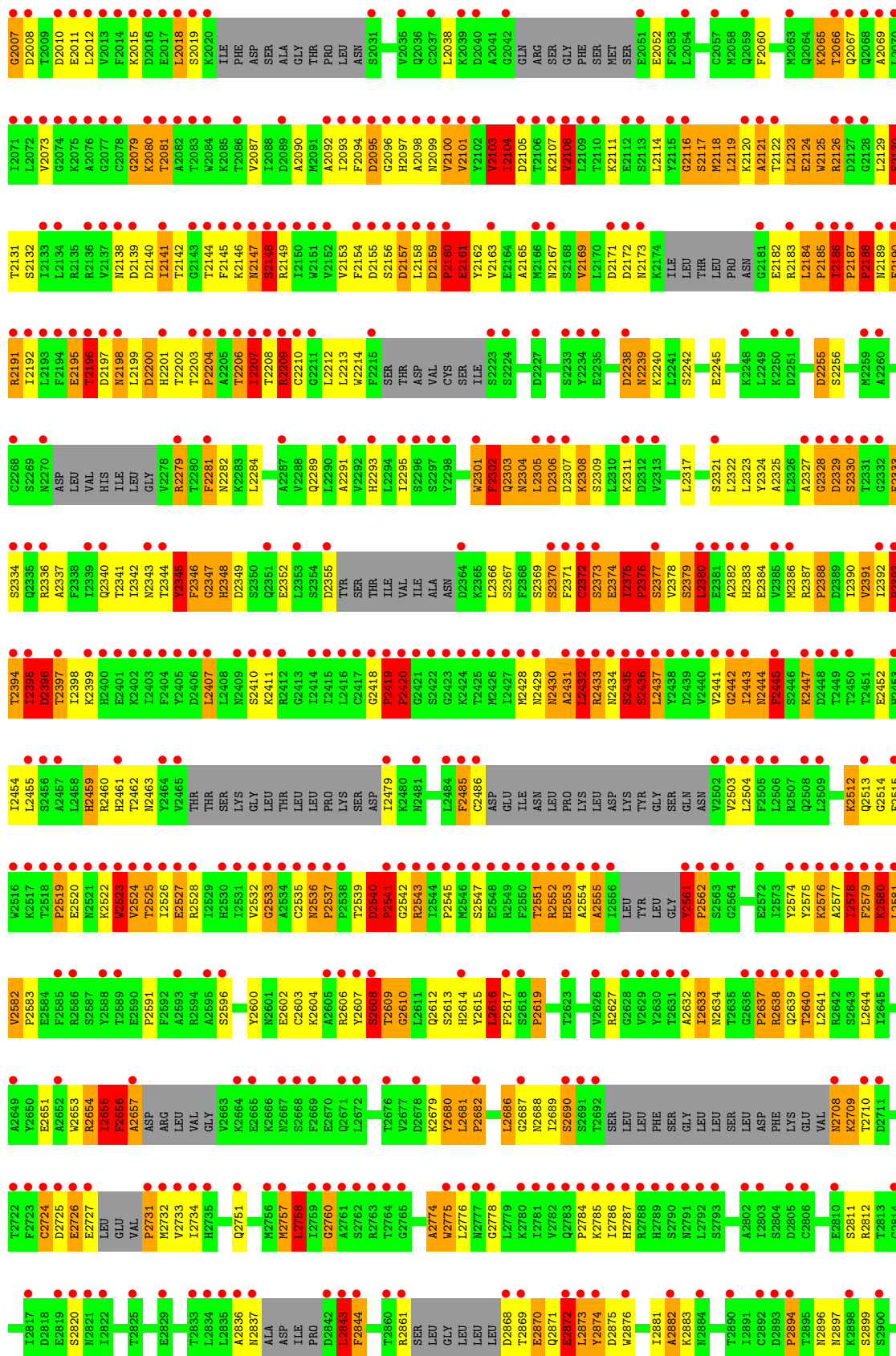
In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Cytoplasmic dynein heavy chain.

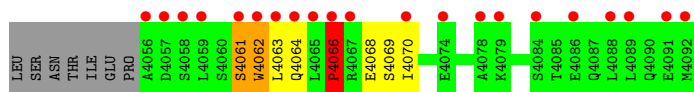
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
1	A	2136	Total	C	N	O	0	0	0
			10585	6313	2136	2136			
1	B	2136	Total	C	N	O	0	0	0
			10586	6314	2136	2136			

- Molecule 2 is a protein called Glutathione-S-transferase.

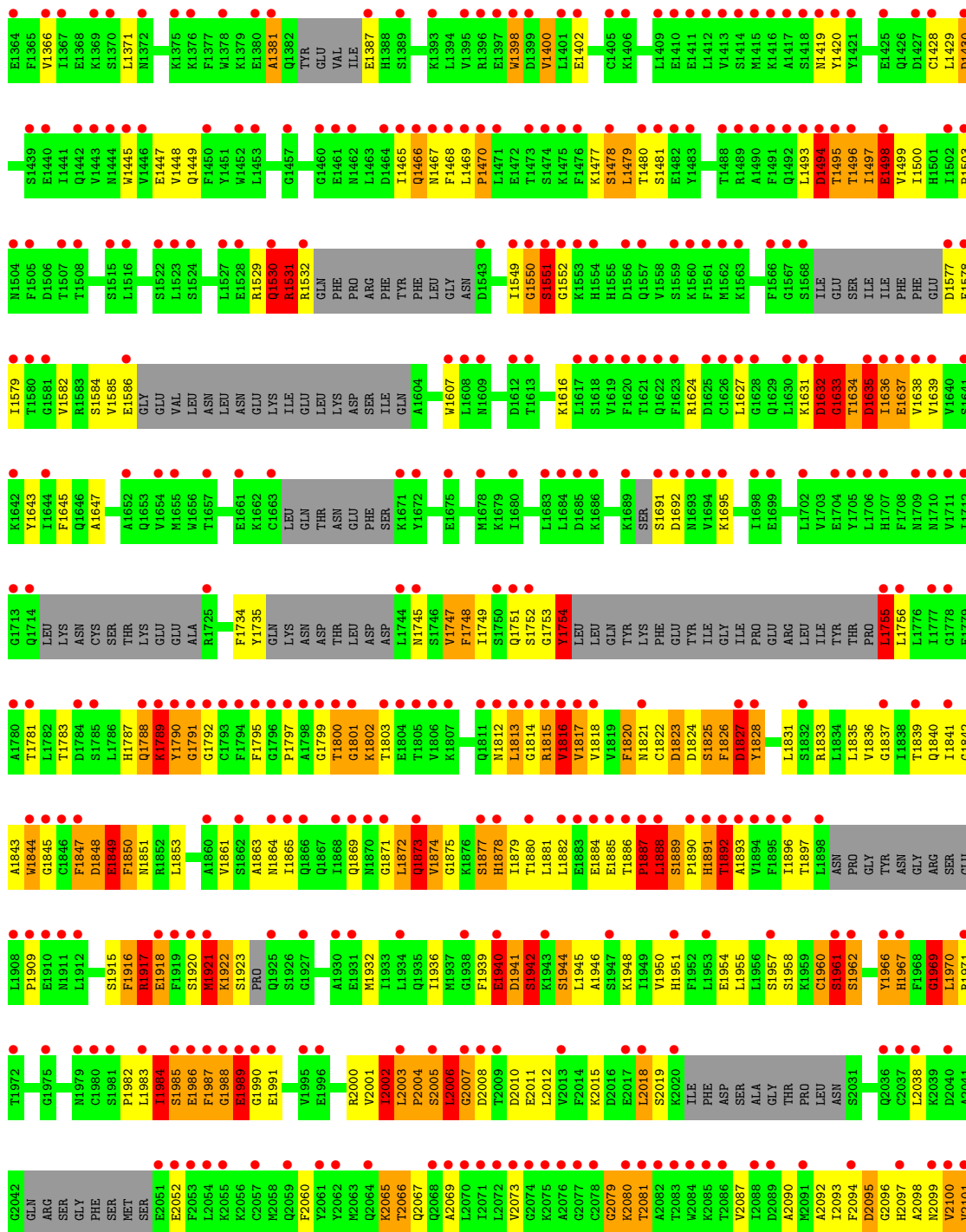
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	T	216	Total	C	N	O	0	0	0
			1066	634	216	216			
2	S	216	Total	C	N	O	0	0	0
			1065	633	216	216			





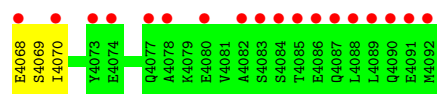


• Molecule 1: Cytoplasmic dynein heavy chain

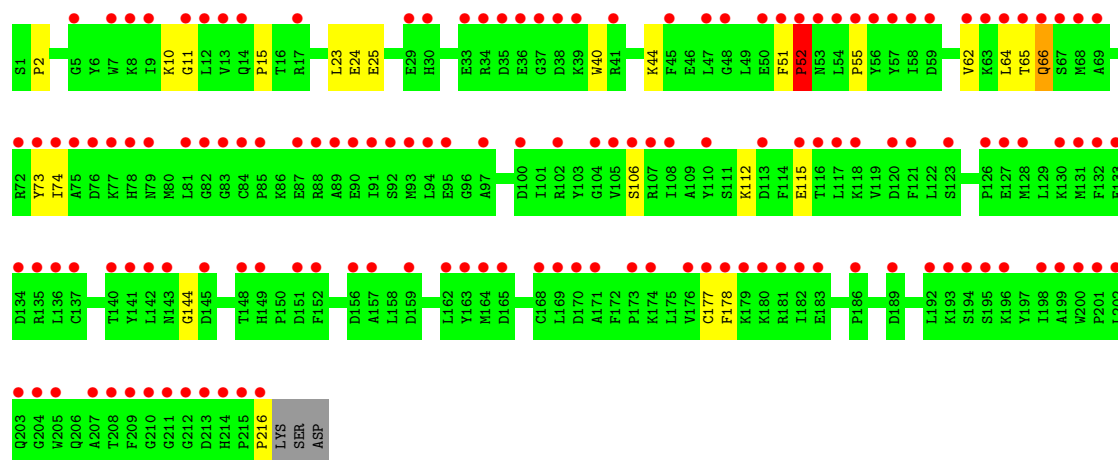
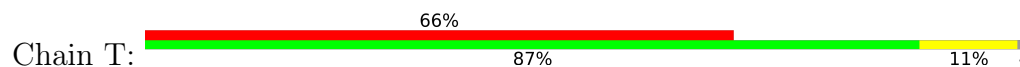


T2895	T2896	T2897	K2898	S2899	S2900	T2903	S2904	S2905	P2906	A2907	L2908	P2909	N2910	N2911	C2912	I2913	I2914	N2915	N2916	N2917	GLY	ASP	TRP	ASP	T2922	K2923	S2926	A2929	N2930	N2931	M2932	N2933	N2934	N2935	N2936	P2937	M2938	E2939	F2940	T2941	D2942	F2943	I2944	N2945	N2946	F2947	N2948	N2953	F2954	T2955	F2956	P2957	N2958	Q2959	T2960					
L2749	K2750	Q2751	N2752	Q2753	Q2754	N2755	N2756	N2757	L2758	S2759	Q2760	L2761	S2762	N2763	T2764	F2772	N2773	N2774	N2775	N2776	N2777	Q2778	L2779	N2782	Q2783	P2784	K2785	N2786	N2787	N2788	N2789	N2790	N2791	N2792	N2793	D2796	A2802	L2803	S2804	D2805	C2806	S2807	L2808	K2809	E2810	S2811	N2812	N2813	H2816	V2817	F2818	C2814	E2819	S2820	N2821	N2822	N2823	P2824	L2825	
E2824	T2825	A2826	E2829	N2830	N2831	N2832	T2833	A2836	N2837	ALA	ASP	ILE	PRO	L2842	L2843	F2844	Q2845	Q2846	E2847	E2848	N2849	D2850	N2854	N2855	T2860	K2861	SER	LEU	GLY	N2870	N2871	N2872	N2873	N2874	D2875	T2876	A2882	K2883	N2884	L2885	H2886	V2887	T2890	L2891	C2892	D2893	P2894	L2895	T2896	P2897	N2898	Q2899	T2900							
P2682	N2683	Q2684	D2685	N2686	G2687	N2688	N2689	S2690	S2691	T2692	SER	LEU	LEU	PHE	SER	GLY	LEU	LEU	SER	ASP	PHE	LYS	GLU	VAL	N2708	K2709	T2710	D2711	N2712	N2713	F2720	K2721	T2722	F2723	C2724	D2725	E2726	E2727	LEU	VAL	GLY	N2731	M2732	N2733	I2734	H2735	E2736	S2737	M2738	N2739	D2740	H2741	N2744	I2745	I2746	A2748	N2749			
L2616	F2617	S2618	P2619	R2620	R2621	K2624	R2627	T2631	A2632	I2633	N2634	T2635	Q2636	P2637	Q2638	Q2639	T2640	L2641	R2642	S2643	L2644	I2645	R2646	L2647	N2648	A2649	P2650	E2651	A2652	N2653	R2654	I2655	F2656	A2657	F2589	E2590	N2591	A2593	R2594	A2595	N2596	N2597	L2598	L2599	N2600	N2601	E2602	C2603	K2604	A2605	R2606	N2607	S2608	T2609	R2610	L2611	Q2612	S2613	H2614	L2615
F2485	C2486	ASP	GLU	ILE	ASN	LEU	PRO	LYS	ASP	ASP	LYS	TYR	GLY	GLN	ASN	V2502	V2503	L2504	E2511	K2512	Q2513	Q2514	F2515	W2516	K2517	T2518	P2519	L2520	N2521	N2522	T2523	T2524	N2525	N2526	E2527	R2528	L2529	H2530	I2531	V2532	Q2533	A2534	C2535	N2536	P2537	P2538	T2539	D2540	R2542	Q2543	R2544	I2545	M2546	S2547	R2549					
T2425	N2426	N2427	N2428	N2429	N2430	N2431	L2432	L2433	N2434	S2435	N2436	L2437	N2438	D2439	N2440	V2441	L2443	N2444	S2446	K2447	D2448	T2449	T2450	T2451	H2452	L2453	L2454	L2455	S2456	A2457	L2458	R2459	H2460	T2462	N2463	N2465	THR	THR	SER	LYS	GLY	N2410	R2412	G2413	G2414	T2415	L2416	C2417	G2418	P2419	P2420	G2421	S2422	G2423	K2424					
N2364	K2365	L2366	S2367	F2368	N2369	N2370	F2371	C2372	E2373	S2374	T2375	N2376	S2377	N2378	S2379	N2380	E2381	H2382	E2383	E2384	N2385	N2386	R2387	N2388	N2389	N2390	N2391	L2392	N2393	T2394	N2395	N2396	N2397	N2398	N2399	H2400	F2401	K2402	L2403	N2405	D2406	L2407	S2410	R2412	G2413	G2414	T2415	L2416	C2417	P2419	P2420	G2421	S2422	G2423	K2424					
W2301	F2302	Q2303	N2304	L2305	D2306	D2307	L2308	S2309	K2310	K2311	N2312	V2313	L2317	L2318	K2319	R2320	S2321	L2322	L2323	Y2324	A2325	L2326	A2327	G2328	D2329	S2330	A2331	Q2332	E2333	S2334	Q2335	A2337	Q2340	T2341	L2342	N2343	T2344	Y2345	F2346	G2347	H2348	D2349	S2350	Q2351	E2352	L2353	S2354	D2355	TYR	SER	THR	ILE	VAL	ILE	ALA	ASN				
S2223	S2224	K2225	L2226	D2227	H2228	L2229	L2230	N2231	D2238	N2239	K2240	L2241	M2243	F2244	E2245	L2246	D2247	D2251	L2252	P2253	S2254	D2255	S2256	A2260	T2267	C2268	S2269	N2270	ASP	LEU	VAL	HTS	ILE	LEU	GLY	V2278	R2279	T2280	F2281	N2282	K2283	L2284	E2285	G2286	L2287	V2288	Q2289	L2290	A2291	V2292	H2293	L2294	I2295							
V2102	V2103	L2104	D2105	T2106	K2107	N2108	L2109	T2110	K2111	E2112	S2113	L2114	Y2115	G2116	S2117	M2118	L2119	A2120	A2121	T2122	L2123	E2124	N2125	R2126	D2127	G2128	L2129	F2130	T2131	S2132	L2133	R2136	N2137	N2138	D2139	D2140	L2141	G2143	T2144	F2145	A2205	T2206	N2207	T2208	R2209	C2210	G2211	L2212	L2213	W2214	F2215	SER	L2216	THR	ASP	VAL	CYS	E2161	Y2162	
V2163	E2164	A2165	N2166	L2167	S2168	N2169	L2170	D2171	N2172	N2173	L2174	ILE	LEU	THR	LEU	PRO	ASN	G2181	E2182	R2183	L2184	L2185	L2186	F2187	P2188	N2189	F2190	L2191	L2192	L2193	F2194	E2195	N2196	N2198	L2199	D2200	H2201	T2202	T2203	P2204	A2205	T2206	N2207	T2208	R2209	C2210	G2211	L2212	L2213	W2214	F2215	SER	L2216	THR	ASP	VAL	CYS	E2161	Y2162	

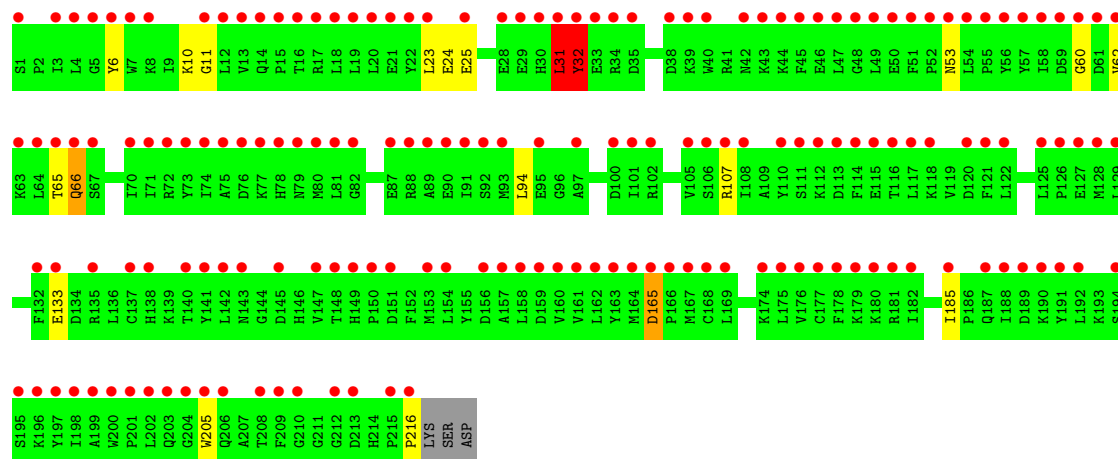
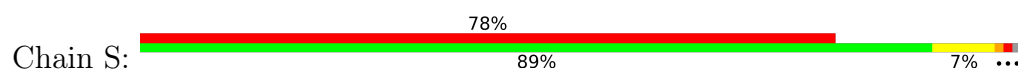




● Molecule 2: Glutathione-S-transferase



● Molecule 2: Glutathione-S-transferase



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	174.08Å 118.92Å 200.51Å 90.00° 90.27° 90.00°	Depositor
Resolution (Å)	50.00 – 6.00 50.00 – 6.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (50.00-6.00) 99.7 (50.00-6.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	9.38 (at 6.15Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.430 , 0.430 0.441 , 0.433	Depositor DCC
R_{free} test set	1079 reflections (5.18%)	wwPDB-VP
Wilson B-factor (Å ²)	259.8	Xtriage
Anisotropy	0.257	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.24 , 999.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.014 for h,-k,-l	Xtriage
F_o, F_c correlation	0.72	EDS
Total number of atoms	23302	wwPDB-VP
Average B, all atoms (Å ²)	222.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.18% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	2.64	294/10536 (2.8%)	3.14	833/14615 (5.7%)
1	B	2.64	294/10537 (2.8%)	3.14	836/14617 (5.7%)
2	S	3.59	2/1064 (0.2%)	1.50	13/1479 (0.9%)
2	T	0.62	0/1065	1.33	9/1481 (0.6%)
All	All	2.63	590/23202 (2.5%)	3.02	1691/32192 (5.3%)

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	3	136
1	B	3	136
2	S	0	3
All	All	6	275

All (590) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	S	32	TYR	N-CA	82.06	2.44	1.46
2	S	32	TYR	CA-C	81.47	2.51	1.52
1	A	3426	THR	C-N	-54.77	0.76	1.33
1	B	3426	THR	C-N	-54.77	0.76	1.33
1	A	3899	ASP	C-N	49.49	1.89	1.33
1	B	3899	ASP	C-N	49.47	1.89	1.33
1	B	4047	ALA	C-N	-49.05	0.64	1.33
1	A	4047	ALA	C-N	-49.01	0.64	1.33
1	A	3754	LYS	C-N	36.50	1.84	1.33
1	B	3754	LYS	C-N	36.48	1.84	1.33
1	B	2709	LYS	C-N	33.58	1.79	1.33
1	A	2709	LYS	C-N	33.57	1.79	1.33
1	B	2103	VAL	C-N	-33.00	0.88	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	2103	VAL	C-N	-32.95	0.88	1.33
1	B	2147	ASN	C-N	-31.18	0.90	1.33
1	A	2147	ASN	C-N	-31.16	0.90	1.33
1	A	1815	ARG	C-N	30.91	1.75	1.33
1	B	1815	ARG	C-N	30.87	1.75	1.33
1	A	1801	GLY	C-N	-30.49	0.95	1.33
1	B	1801	GLY	C-N	-30.47	0.95	1.33
1	A	3382	CYS	C-N	-28.97	0.92	1.33
1	B	3382	CYS	C-N	-28.93	0.92	1.33
1	B	1466	GLN	C-N	28.85	1.70	1.33
1	A	1466	GLN	C-N	28.84	1.70	1.33
1	A	3360	TYR	C-N	28.69	1.82	1.33
1	B	3360	TYR	C-N	28.68	1.82	1.33
1	B	1986	GLU	C-N	27.63	1.72	1.33
1	A	1986	GLU	C-N	27.61	1.72	1.33
1	B	2301	TRP	C-N	27.61	1.72	1.33
1	A	2301	TRP	C-N	27.60	1.72	1.33
1	B	2158	LEU	C-N	27.49	1.66	1.33
1	A	2158	LEU	C-N	27.47	1.66	1.33
1	B	1962	SER	C-N	-26.18	1.00	1.33
1	A	1962	SER	C-N	-26.14	1.01	1.33
1	A	1877	SER	C-N	-26.06	0.99	1.33
1	B	1877	SER	C-N	-26.02	0.99	1.33
1	A	4015	PHE	C-N	-25.81	0.97	1.33
1	B	4015	PHE	C-N	-25.75	0.97	1.33
1	B	2774	ALA	C-N	25.42	1.69	1.33
1	A	2774	ALA	C-N	25.37	1.68	1.33
1	B	2002	ILE	C-N	-25.27	0.97	1.33
1	A	2002	ILE	C-N	-25.27	0.97	1.33
1	B	1941	ASP	C-N	24.95	1.68	1.33
1	A	1941	ASP	C-N	24.93	1.68	1.33
1	B	1844	TRP	C-N	24.64	1.69	1.33
1	A	1844	TRP	C-N	24.64	1.69	1.33
1	B	3898	GLU	C-N	23.70	1.58	1.33
1	A	3898	GLU	C-N	23.63	1.58	1.33
1	B	3923	VAL	C-N	23.63	1.65	1.33
1	A	3923	VAL	C-N	23.62	1.65	1.33
1	B	3457	PHE	C-N	-23.45	1.00	1.33
1	A	3457	PHE	C-N	-23.43	1.00	1.33
1	A	1802	LYS	C-N	-23.26	1.01	1.33
1	B	1802	LYS	C-N	-23.25	1.01	1.33
1	A	3755	SER	C-N	23.05	1.66	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	3755	SER	C-N	23.05	1.66	1.33
1	B	2758	LEU	C-N	22.46	1.60	1.33
1	A	2758	LEU	C-N	22.40	1.60	1.33
1	B	2432	LEU	C-N	-22.38	1.02	1.33
1	A	2432	LEU	C-N	-22.36	1.02	1.33
1	A	3334	PHE	C-N	22.27	1.66	1.33
1	B	3334	PHE	C-N	22.26	1.66	1.33
1	A	1635	ASP	C-N	-22.23	1.02	1.33
1	B	1635	ASP	C-N	-22.21	1.02	1.33
1	A	2935	VAL	C-N	22.19	1.58	1.33
1	B	2935	VAL	C-N	22.14	1.58	1.33
1	A	2436	SER	C-N	22.03	1.62	1.33
1	B	2118	MET	C-N	22.02	1.64	1.33
1	B	2436	SER	C-N	22.00	1.62	1.33
1	A	2118	MET	C-N	21.98	1.64	1.33
1	A	3504	ASP	C-N	-21.90	1.08	1.33
1	B	3504	ASP	C-N	-21.87	1.08	1.33
1	A	3892	THR	C-N	21.39	1.61	1.33
1	A	2655	ILE	C-N	21.38	1.63	1.33
1	B	2655	ILE	C-N	21.37	1.63	1.33
1	B	3892	THR	C-N	21.35	1.61	1.33
1	A	3565	ARG	C-N	-21.30	1.04	1.33
1	B	3565	ARG	C-N	-21.28	1.04	1.33
1	A	1872	LEU	CA-C	-21.14	1.25	1.52
1	B	1872	LEU	CA-C	-21.11	1.25	1.52
1	B	1494	ASP	C-N	20.82	1.62	1.34
1	A	1494	ASP	C-N	20.79	1.62	1.34
1	A	3333	TYR	C-N	20.60	1.62	1.33
1	B	3333	TYR	C-N	20.59	1.62	1.33
1	A	1632	ASP	C-N	20.41	1.61	1.33
1	B	1632	ASP	C-N	20.40	1.61	1.33
1	A	3901	PRO	C-N	20.25	1.61	1.33
1	B	3901	PRO	C-N	20.25	1.61	1.33
1	A	1892	THR	C-N	20.23	1.62	1.33
1	B	2579	PHE	C-N	20.23	1.62	1.33
1	A	2579	PHE	C-N	20.20	1.61	1.33
1	B	1892	THR	C-N	20.16	1.62	1.33
1	B	1985	SER	C-N	20.11	1.61	1.33
1	A	1985	SER	C-N	20.11	1.61	1.33
1	B	3642	TYR	C-N	19.89	1.62	1.33
1	A	3642	TYR	C-N	19.87	1.62	1.33
1	B	2574	TYR	C-N	19.80	1.61	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	2574	TYR	C-N	19.79	1.61	1.33
1	A	1967	HIS	C-N	19.56	1.59	1.33
1	B	1967	HIS	C-N	19.49	1.59	1.33
1	A	1850	PHE	C-N	19.47	1.59	1.34
1	B	1850	PHE	C-N	19.44	1.59	1.34
1	A	3893	ASP	C-N	19.43	1.60	1.33
1	A	4035	GLN	C-N	19.42	1.60	1.33
1	B	4035	GLN	C-N	19.41	1.60	1.33
1	B	3893	ASP	C-N	19.41	1.60	1.33
1	A	2346	PHE	C-N	19.36	1.63	1.33
1	B	2346	PHE	C-N	19.32	1.63	1.33
1	A	2186	ILE	C-N	19.08	1.55	1.33
1	B	2186	ILE	C-N	19.04	1.55	1.33
1	B	3637	GLN	C-N	19.04	1.60	1.33
1	A	3637	GLN	C-N	19.01	1.60	1.33
1	A	1820	PHE	C-N	19.00	1.57	1.34
1	B	1820	PHE	C-N	18.98	1.57	1.34
1	A	2279	ARG	C-N	-18.97	0.99	1.33
1	B	2279	ARG	C-N	-18.97	0.99	1.33
1	B	2101	VAL	C-N	-18.96	1.07	1.33
1	A	2101	VAL	C-N	-18.93	1.07	1.33
1	B	3684	CYS	C-N	-18.93	1.07	1.33
1	A	3684	CYS	C-N	-18.89	1.07	1.33
1	B	2199	LEU	C-O	-18.55	1.10	1.24
1	A	2199	LEU	C-O	-18.47	1.10	1.24
1	B	2195	GLU	C-N	18.38	1.59	1.33
1	A	2195	GLU	C-N	18.35	1.59	1.33
1	B	2460	ARG	C-N	-17.84	1.08	1.33
1	A	2460	ARG	C-N	-17.84	1.08	1.33
1	B	2690	SER	C-N	17.77	1.56	1.33
1	A	2690	SER	C-N	17.73	1.56	1.33
1	A	3430	SER	C-N	17.67	1.56	1.33
1	A	2160	PRO	C-N	17.63	1.58	1.33
1	B	3430	SER	C-N	17.63	1.56	1.33
1	B	2160	PRO	C-N	17.62	1.58	1.33
1	A	4034	LEU	C-N	17.61	1.58	1.33
1	B	4034	LEU	C-N	17.61	1.58	1.33
1	B	1816	VAL	C-N	17.57	1.57	1.33
1	A	1816	VAL	C-N	17.57	1.57	1.33
1	A	2201	HIS	C-O	-17.57	1.02	1.24
1	B	2201	HIS	C-O	-17.55	1.02	1.24
1	A	1990	GLY	C-N	17.54	1.56	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1990	GLY	C-N	17.53	1.56	1.33
1	A	2199	LEU	C-N	-17.49	1.10	1.33
1	B	2199	LEU	C-N	-17.48	1.10	1.33
1	B	2689	ILE	C-N	-17.40	1.14	1.33
1	B	1430	ASP	C-N	-17.39	1.09	1.33
1	A	2689	ILE	C-N	-17.37	1.14	1.33
1	A	1430	ASP	C-N	-17.35	1.09	1.33
1	A	2936	VAL	C-N	-17.11	0.93	1.33
1	B	2936	VAL	C-N	-17.08	0.93	1.33
1	B	1849	GLU	C-N	-17.01	1.09	1.33
1	A	1849	GLU	C-N	-17.00	1.09	1.33
1	B	1891	HIS	C-N	-16.83	1.05	1.33
1	A	1891	HIS	C-N	-16.80	1.05	1.33
1	A	3996	GLY	C-N	16.68	1.62	1.33
1	B	3996	GLY	C-N	16.66	1.62	1.33
1	A	2637	PRO	C-N	-16.39	1.10	1.33
1	B	2637	PRO	C-N	-16.38	1.10	1.33
1	A	2209	ARG	C-N	16.30	1.56	1.33
1	B	2209	ARG	C-N	16.28	1.56	1.33
1	A	2066	THR	C-N	16.21	1.56	1.33
1	B	2066	THR	C-N	16.16	1.56	1.33
1	A	1825	SER	C-N	16.03	1.53	1.33
1	B	3640	TRP	C-N	-16.01	1.11	1.33
1	A	3640	TRP	C-N	-16.00	1.11	1.33
1	B	1825	SER	C-N	15.99	1.52	1.33
1	B	2157	ASP	C-N	-15.99	1.16	1.33
1	A	2157	ASP	C-N	-15.96	1.16	1.33
1	B	2731	PRO	C-N	15.84	1.55	1.33
1	A	2731	PRO	C-N	15.81	1.55	1.33
1	A	2732	MET	C-N	15.80	1.56	1.33
1	A	2616	LEU	C-N	15.78	1.55	1.33
1	B	2732	MET	C-N	15.78	1.56	1.33
1	B	2616	LEU	C-N	15.77	1.55	1.33
1	A	1634	THR	C-N	15.76	1.55	1.33
1	B	1634	THR	C-N	15.74	1.55	1.33
1	B	2609	THR	C-N	15.52	1.56	1.33
1	A	2609	THR	C-N	15.51	1.56	1.33
1	A	3420	ASN	C-N	15.51	1.55	1.33
1	B	3420	ASN	C-N	15.50	1.55	1.33
1	B	1984	ILE	C-N	15.44	1.54	1.33
1	A	1984	ILE	C-N	15.43	1.54	1.33
1	B	1498	GLU	C-N	-15.41	1.15	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1498	GLU	C-N	-15.38	1.15	1.33
1	A	3667	ALA	C-N	15.23	1.54	1.33
1	B	3667	ALA	C-N	15.21	1.54	1.33
1	B	4033	LEU	C-N	-15.15	1.12	1.33
1	A	4033	LEU	C-N	-15.12	1.12	1.33
1	B	4005	GLU	N-CA	-14.97	1.28	1.46
1	A	2018	LEU	C-N	-14.96	1.12	1.33
1	A	4005	GLU	N-CA	-14.96	1.28	1.46
1	B	2018	LEU	C-N	-14.93	1.12	1.33
1	B	2372	CYS	C-N	14.71	1.53	1.33
1	B	3854	TYR	CA-C	-14.70	1.34	1.52
1	A	3685	GLN	C-N	14.69	1.54	1.33
1	A	3854	TYR	CA-C	-14.69	1.34	1.52
1	A	2372	CYS	C-N	14.68	1.53	1.33
1	B	3685	GLN	C-N	14.66	1.54	1.33
1	A	1812	ASN	C-N	-14.63	1.15	1.33
1	B	1812	ASN	C-N	-14.63	1.15	1.33
1	B	2200	ASP	C-N	-14.62	1.14	1.34
1	A	2200	ASP	C-N	-14.60	1.14	1.34
1	B	2607	TYR	C-N	-14.59	1.15	1.33
1	A	2607	TYR	C-N	-14.59	1.15	1.33
1	B	4036	GLN	C-N	-14.58	1.13	1.33
1	A	3644	ILE	C-N	14.57	1.54	1.33
1	A	4036	GLN	C-N	-14.55	1.13	1.33
1	B	3644	ILE	C-N	14.53	1.54	1.33
1	B	2239	ASN	C-N	14.45	1.53	1.33
1	A	2239	ASN	C-N	14.41	1.52	1.33
1	A	2961	ILE	C-N	-14.39	1.15	1.33
1	B	2309	SER	C-N	-14.39	1.14	1.33
1	A	2309	SER	C-N	-14.39	1.14	1.33
1	B	2961	ILE	C-N	-14.38	1.15	1.33
1	B	3666	ALA	C-N	-14.38	1.13	1.33
1	A	3666	ALA	C-N	-14.33	1.13	1.33
1	A	2005	SER	C-N	-14.12	1.13	1.33
1	B	2005	SER	C-N	-14.09	1.13	1.33
1	A	2725	ASP	C-N	14.06	1.53	1.33
1	B	2725	ASP	C-N	14.04	1.53	1.33
1	A	2240	LYS	C-N	13.97	1.52	1.33
1	B	2240	LYS	C-N	13.96	1.52	1.33
1	B	2561	TYR	C-N	13.91	1.60	1.34
1	A	2561	TYR	C-N	13.90	1.60	1.34
1	B	2117	SER	C-N	13.89	1.53	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	2117	SER	C-N	13.89	1.53	1.33
1	B	1983	LEU	C-N	-13.79	1.14	1.33
1	A	1983	LEU	C-N	-13.73	1.15	1.33
1	B	2462	THR	C-N	-13.61	1.16	1.33
1	A	3499	CYS	C-N	13.60	1.61	1.33
1	A	2462	THR	C-N	-13.58	1.16	1.33
1	A	1828	TYR	C-N	13.57	1.51	1.33
1	B	3499	CYS	C-N	13.56	1.61	1.33
1	B	1800	THR	C-N	-13.51	1.12	1.33
1	B	1828	TYR	C-N	13.49	1.51	1.33
1	A	1800	THR	C-N	-13.48	1.12	1.33
1	A	3405	PRO	C-N	-13.40	1.15	1.33
1	B	3405	PRO	C-N	-13.38	1.15	1.33
1	A	3853	THR	CA-CB	-13.22	1.32	1.53
1	B	3853	THR	CA-CB	-13.22	1.32	1.53
1	B	2447	LYS	C-N	-13.17	1.15	1.33
1	A	2447	LYS	C-N	-13.15	1.15	1.33
1	A	4003	ASP	C-N	12.77	1.51	1.33
1	A	2108	VAL	C-N	-12.77	1.18	1.33
1	A	1790	TYR	C-N	12.76	1.47	1.33
1	B	2108	VAL	C-N	-12.75	1.18	1.33
1	B	4003	ASP	C-N	12.75	1.51	1.33
1	B	1790	TYR	C-N	12.72	1.47	1.33
1	A	2843	LEU	C-N	12.70	1.51	1.33
1	B	2843	LEU	C-N	12.70	1.51	1.33
1	A	3359	LYS	C-N	-12.56	1.15	1.33
1	B	3359	LYS	C-N	-12.56	1.15	1.33
1	B	1823	ASP	C-N	12.42	1.51	1.33
1	A	1823	ASP	C-N	12.41	1.51	1.33
1	A	3362	VAL	C-N	12.28	1.50	1.33
1	A	1496	THR	C-N	12.23	1.48	1.33
1	B	3503	GLY	C-N	-12.22	1.16	1.33
1	B	3362	VAL	C-N	12.22	1.50	1.33
1	B	1496	THR	C-N	12.21	1.48	1.33
1	A	3503	GLY	C-N	-12.15	1.16	1.33
1	A	2941	THR	C-N	12.12	1.50	1.33
1	B	2941	THR	C-N	12.11	1.50	1.33
1	B	1969	GLY	C-N	-11.99	1.17	1.33
1	A	2201	HIS	N-CA	11.97	1.61	1.46
1	A	1969	GLY	C-N	-11.95	1.17	1.33
1	A	3857	LYS	CA-C	-11.92	1.37	1.52
1	B	2201	HIS	N-CA	11.91	1.61	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	3857	LYS	CA-C	-11.88	1.37	1.52
1	B	3399	ASN	C-N	11.85	1.50	1.33
1	B	1942	SER	C-N	11.84	1.50	1.33
1	A	1942	SER	C-N	11.82	1.50	1.33
1	A	3399	ASN	C-N	11.79	1.50	1.33
1	B	2396	ASP	C-N	11.78	1.50	1.33
1	A	2396	ASP	C-N	11.76	1.50	1.33
1	A	1871	GLY	C-N	-11.62	1.17	1.33
1	B	1871	GLY	C-N	-11.62	1.17	1.33
1	A	2523	TRP	C-N	-11.58	1.17	1.33
1	A	2322	LEU	CA-CB	-11.57	1.34	1.53
1	B	2196	THR	C-N	-11.56	1.17	1.33
1	B	2523	TRP	C-N	-11.56	1.18	1.33
1	A	3856	HIS	CA-CB	-11.54	1.35	1.53
1	B	3856	HIS	CA-CB	-11.53	1.35	1.53
1	B	1872	LEU	N-CA	-11.53	1.31	1.45
1	A	2196	THR	C-N	-11.52	1.17	1.33
1	A	1872	LEU	N-CA	-11.50	1.31	1.45
1	B	3500	ASP	C-N	11.46	1.60	1.33
1	A	3500	ASP	C-N	11.46	1.60	1.33
1	A	1848	ASP	C-N	-11.45	1.17	1.33
1	B	1848	ASP	C-N	-11.44	1.17	1.33
1	A	1478	SER	C-N	-11.30	1.18	1.33
1	B	2632	ALA	C-N	11.28	1.49	1.33
1	A	3682	VAL	C-N	-11.25	1.20	1.33
1	A	2373	SER	C-N	-11.25	1.18	1.33
1	B	1478	SER	C-N	-11.24	1.18	1.33
1	B	3682	VAL	C-N	-11.22	1.20	1.33
1	A	2632	ALA	C-N	11.22	1.48	1.33
1	B	2373	SER	C-N	-11.18	1.18	1.33
1	B	2322	LEU	CA-CB	-11.07	1.34	1.53
1	A	3855	LEU	N-CA	-11.05	1.33	1.46
1	B	3855	LEU	N-CA	-11.04	1.33	1.46
1	A	3877	CYS	C-N	11.02	1.48	1.33
1	B	3877	CYS	C-N	10.99	1.48	1.33
1	A	3853	THR	CA-C	-10.96	1.38	1.52
1	B	3853	THR	CA-C	-10.92	1.38	1.52
1	A	2444	ASN	C-N	-10.86	1.18	1.33
1	B	2444	ASN	C-N	-10.84	1.18	1.33
1	A	2430	ASN	C-N	-10.65	1.18	1.33
1	B	2430	ASN	C-N	-10.64	1.18	1.33
1	B	4004	LEU	CA-C	-10.61	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	4004	LEU	CA-C	-10.61	1.39	1.52
1	B	3795	ASP	C-N	-10.56	1.18	1.33
1	A	3795	ASP	C-N	-10.55	1.18	1.33
1	A	1754	TYR	C-N	10.44	1.48	1.33
1	B	1754	TYR	C-N	10.42	1.48	1.33
1	B	3683	TYR	C-N	10.36	1.48	1.33
1	A	2124	GLU	C-O	10.36	1.43	1.24
1	A	1497	ILE	C-N	-10.36	1.19	1.33
1	A	3683	TYR	C-N	10.35	1.48	1.33
1	B	1497	ILE	C-N	-10.35	1.19	1.33
1	B	2124	GLU	C-O	10.33	1.43	1.24
1	B	3655	ARG	C-N	10.14	1.47	1.33
1	A	3655	ARG	C-N	10.13	1.47	1.33
1	A	2726	GLU	C-N	-10.11	1.19	1.33
1	A	2757	MET	C-N	-10.10	1.19	1.33
1	B	2726	GLU	C-N	-10.10	1.19	1.33
1	A	3998	ILE	C-N	10.09	1.47	1.33
1	B	3998	ILE	C-N	10.08	1.47	1.33
1	A	2540	ASP	C-N	-10.06	1.10	1.33
1	B	2757	MET	C-N	-10.05	1.19	1.33
1	B	2540	ASP	C-N	-10.04	1.10	1.33
1	A	2555	ALA	C-N	-9.99	1.19	1.33
1	B	2555	ALA	C-N	-9.95	1.19	1.33
1	A	2638	ARG	C-N	-9.83	1.16	1.34
1	A	1495	THR	C-N	-9.79	1.20	1.33
1	B	2638	ARG	C-N	-9.79	1.16	1.34
1	B	3854	TYR	N-CA	-9.79	1.34	1.46
1	A	3854	TYR	N-CA	-9.78	1.34	1.46
1	B	1495	THR	C-N	-9.77	1.20	1.33
1	B	2208	THR	C-N	9.68	1.47	1.33
1	A	2208	THR	C-N	9.68	1.47	1.33
1	A	2939	GLU	C-O	9.68	1.36	1.24
1	A	1888	LEU	C-N	-9.62	1.17	1.33
1	B	1888	LEU	C-N	-9.62	1.18	1.33
1	B	2939	GLU	C-O	9.61	1.36	1.24
1	B	1966	TYR	C-N	9.50	1.47	1.33
1	A	1966	TYR	C-N	9.49	1.47	1.33
1	B	2119	LEU	N-CA	9.44	1.58	1.46
1	A	2201	HIS	CA-C	-9.43	1.39	1.52
1	B	2201	HIS	CA-C	-9.43	1.39	1.52
1	A	2119	LEU	N-CA	9.42	1.58	1.46
1	B	1398	TRP	C-N	9.37	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	2527	GLU	C-N	-9.37	1.21	1.33
1	A	1398	TRP	C-N	9.37	1.46	1.33
1	B	2527	GLU	C-N	-9.36	1.21	1.33
1	B	2139	ASP	C-N	-9.35	1.20	1.33
1	A	2139	ASP	C-N	-9.31	1.20	1.33
1	B	1988	GLY	C-N	9.30	1.43	1.33
1	A	1988	GLY	C-N	9.29	1.43	1.33
1	B	2760	GLY	C-N	-9.28	1.20	1.33
1	A	2760	GLY	C-N	-9.26	1.20	1.33
1	B	3858	HIS	N-CA	-9.26	1.35	1.46
1	B	4006	VAL	C-O	9.24	1.35	1.24
1	B	2445	PHE	C-N	9.22	1.46	1.33
1	A	4006	VAL	C-O	9.21	1.35	1.24
1	B	1987	PHE	C-N	9.21	1.47	1.33
1	A	1987	PHE	C-N	9.20	1.47	1.33
1	A	3858	HIS	N-CA	-9.19	1.35	1.46
1	A	2445	PHE	C-N	9.19	1.46	1.33
1	A	2541	PRO	C-N	9.13	1.43	1.33
1	B	2541	PRO	C-N	9.10	1.43	1.33
1	A	1381	ALA	C-N	8.94	1.45	1.33
1	A	3855	LEU	C-O	-8.93	1.13	1.24
1	B	3855	LEU	C-O	-8.93	1.13	1.24
1	A	1872	LEU	C-O	-8.93	1.12	1.23
1	B	1872	LEU	C-O	-8.92	1.12	1.23
1	B	1381	ALA	C-N	8.89	1.45	1.33
1	A	2633	ILE	C-N	-8.72	1.21	1.33
1	B	2633	ILE	C-N	-8.67	1.21	1.33
1	A	2118	MET	C-O	-8.66	1.13	1.24
1	A	1847	PHE	C-N	8.63	1.45	1.33
1	B	2118	MET	C-O	-8.63	1.13	1.24
1	B	2207	ILE	N-CA	-8.62	1.35	1.46
1	B	1847	PHE	C-N	8.61	1.45	1.33
1	A	2199	LEU	CA-C	-8.60	1.42	1.53
1	B	3363	ASN	C-N	8.59	1.45	1.33
1	B	2199	LEU	CA-C	-8.59	1.42	1.53
1	A	2308	LYS	C-N	-8.58	1.19	1.34
1	A	3363	ASN	C-N	8.57	1.45	1.33
1	B	2308	LYS	C-N	-8.57	1.19	1.34
1	A	2207	ILE	N-CA	-8.55	1.36	1.46
1	B	2124	GLU	CA-C	8.46	1.63	1.52
1	A	2124	GLU	CA-C	8.46	1.63	1.52
1	B	1887	PRO	C-N	8.45	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1873	GLN	CA-C	-8.44	1.41	1.52
1	A	1873	GLN	CA-C	-8.44	1.41	1.52
1	A	1887	PRO	C-N	8.42	1.45	1.33
1	A	1813	LEU	C-N	-8.34	1.21	1.33
1	B	1813	LEU	C-N	-8.34	1.21	1.33
1	B	2116	GLY	C-N	8.33	1.43	1.33
1	A	2116	GLY	C-N	8.32	1.43	1.33
1	B	2323	LEU	CA-C	-8.29	1.42	1.52
1	B	2435	SER	C-N	-8.28	1.23	1.33
1	A	2323	LEU	CA-C	-8.25	1.42	1.52
1	A	2435	SER	C-N	-8.24	1.23	1.33
1	B	2407	LEU	C-N	-8.23	1.22	1.33
1	B	2321	SER	CA-C	8.20	1.64	1.52
1	A	2407	LEU	C-N	-8.19	1.22	1.33
1	A	2321	SER	CA-C	8.15	1.64	1.52
1	B	2302	PHE	C-N	-8.07	1.22	1.33
1	A	2302	PHE	C-N	-8.06	1.22	1.33
1	A	2321	SER	C-N	8.02	1.44	1.33
1	B	2321	SER	C-N	7.95	1.45	1.34
1	A	2940	PHE	C-N	-7.94	1.22	1.33
1	A	3997	LYS	C-N	-7.91	1.22	1.33
1	B	2940	PHE	C-N	-7.91	1.22	1.33
1	B	3997	LYS	C-N	-7.91	1.22	1.33
1	A	2322	LEU	N-CA	7.89	1.56	1.46
1	A	2907	ALA	C-N	-7.88	1.22	1.33
1	A	2240	LYS	N-CA	7.86	1.60	1.46
1	A	3855	LEU	C-N	-7.86	1.23	1.33
1	B	3855	LEU	C-N	-7.86	1.23	1.33
1	B	2907	ALA	C-N	-7.85	1.22	1.33
1	B	2240	LYS	N-CA	7.83	1.60	1.46
1	B	2937	PRO	C-N	7.81	1.45	1.33
1	A	2937	PRO	C-N	7.79	1.45	1.33
1	B	1479	LEU	C-N	-7.68	1.23	1.33
1	A	1479	LEU	C-N	-7.67	1.23	1.33
1	A	2431	ALA	C-N	7.62	1.44	1.33
1	B	2431	ALA	C-N	7.62	1.44	1.33
1	B	2322	LEU	N-CA	7.59	1.56	1.46
1	A	4024	VAL	CA-CB	-7.55	1.50	1.54
1	B	4024	VAL	CA-CB	-7.52	1.50	1.54
1	A	1873	GLN	C-N	7.47	1.43	1.33
1	A	3432	LEU	C-N	7.46	1.43	1.33
1	B	3432	LEU	C-N	7.46	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	3900	ILE	CA-C	7.44	1.60	1.52
1	A	4006	VAL	CA-C	-7.44	1.43	1.52
1	A	2238	ASP	CA-C	-7.44	1.43	1.52
1	B	4006	VAL	CA-C	-7.43	1.43	1.52
1	B	2238	ASP	CA-C	-7.43	1.43	1.52
1	B	1873	GLN	C-N	7.42	1.43	1.33
1	B	3900	ILE	CA-C	7.42	1.60	1.52
1	B	3688	THR	C-N	7.37	1.44	1.33
1	A	3688	THR	C-N	7.34	1.44	1.33
1	A	3514	ARG	C-N	7.27	1.44	1.33
1	A	2006	LEU	C-N	-7.26	1.22	1.33
1	B	3514	ARG	C-N	7.26	1.44	1.33
1	B	2006	LEU	C-N	-7.21	1.23	1.33
1	A	2240	LYS	C-O	-7.18	1.07	1.24
1	B	2324	TYR	CA-C	7.15	1.62	1.52
1	B	2240	LYS	C-O	-7.15	1.07	1.24
1	B	1799	GLY	C-N	-7.15	1.23	1.33
1	A	2324	TYR	CA-C	7.14	1.62	1.52
1	A	1799	GLY	C-N	-7.10	1.23	1.33
1	A	4007	VAL	CA-C	7.09	1.63	1.52
1	B	4007	VAL	CA-C	7.07	1.63	1.52
1	A	1387	GLU	C-N	7.05	1.43	1.33
1	B	2207	ILE	CA-C	7.04	1.61	1.52
1	A	2148	SER	C-N	7.03	1.44	1.33
1	A	2207	ILE	CA-C	7.03	1.61	1.52
1	B	1387	GLU	C-N	7.03	1.43	1.33
1	A	2602	GLU	C-N	7.02	1.42	1.33
1	B	2602	GLU	C-N	7.01	1.42	1.33
1	B	2148	SER	C-N	6.99	1.44	1.33
1	A	2130	PHE	C-N	6.94	1.43	1.33
1	A	1789	LYS	C-N	-6.93	1.24	1.33
1	B	1789	LYS	C-N	-6.92	1.24	1.33
1	B	2130	PHE	C-N	6.91	1.43	1.33
1	B	3990	ALA	N-CA	6.91	1.54	1.46
1	B	2938	MET	C-N	-6.90	1.24	1.33
1	A	2938	MET	C-N	-6.90	1.24	1.33
1	B	1958	SER	C-O	6.86	1.32	1.24
1	A	1958	SER	C-O	6.85	1.32	1.24
1	A	3990	ALA	N-CA	6.85	1.54	1.46
1	B	2654	ARG	C-N	-6.84	1.24	1.33
1	A	2374	GLU	C-N	-6.82	1.25	1.33
1	A	2654	ARG	C-N	-6.81	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	3902	GLY	C-N	6.78	1.42	1.33
1	B	2374	GLU	C-N	-6.77	1.25	1.33
1	A	2282	ASN	CA-CB	6.77	1.64	1.53
1	B	3902	GLY	C-N	6.74	1.42	1.33
1	B	2282	ASN	CA-CB	6.69	1.64	1.53
1	A	2394	THR	C-N	-6.65	1.24	1.33
1	B	2324	TYR	N-CA	-6.65	1.38	1.46
1	B	2323	LEU	CA-CB	6.61	1.63	1.53
1	A	2323	LEU	CA-CB	6.60	1.63	1.53
1	A	2324	TYR	N-CA	-6.60	1.38	1.46
1	B	2394	THR	C-N	-6.59	1.24	1.33
1	B	3789	ALA	C-N	-6.54	1.24	1.33
1	B	1873	GLN	C-O	6.50	1.32	1.24
1	A	3789	ALA	C-N	-6.49	1.24	1.33
1	A	4003	ASP	N-CA	6.49	1.54	1.46
1	B	4003	ASP	N-CA	6.48	1.54	1.46
1	A	1873	GLN	C-O	6.46	1.32	1.24
1	B	3656	VAL	CA-C	-6.43	1.44	1.52
1	A	2872	GLU	C-N	-6.39	1.25	1.33
1	A	3656	VAL	CA-C	-6.38	1.44	1.52
1	A	3429	LEU	C-N	6.34	1.48	1.34
1	B	2872	GLU	C-N	-6.33	1.25	1.33
1	B	3429	LEU	C-N	6.32	1.48	1.34
1	B	2325	ALA	CA-CB	-6.29	1.43	1.53
1	B	2065	LYS	C-N	6.27	1.42	1.33
1	A	2325	ALA	CA-CB	-6.27	1.43	1.53
1	B	1958	SER	N-CA	6.27	1.53	1.46
1	A	2322	LEU	C-O	6.26	1.31	1.24
1	A	1958	SER	N-CA	6.25	1.53	1.46
1	A	2065	LYS	C-N	6.22	1.42	1.33
1	A	2118	MET	CA-CB	6.19	1.64	1.53
1	A	2187	PRO	C-N	6.18	1.48	1.33
1	B	2347	GLY	C-N	-6.18	1.24	1.33
1	B	2118	MET	CA-CB	6.17	1.63	1.53
1	B	3852	LYS	C-N	6.17	1.42	1.33
1	A	2347	GLY	C-N	-6.17	1.24	1.33
1	B	2187	PRO	C-N	6.17	1.48	1.33
1	A	2185	PRO	C-N	-6.16	1.26	1.33
1	A	3852	LYS	C-N	6.16	1.42	1.33
1	B	2185	PRO	C-N	-6.14	1.26	1.33
1	B	2141	ILE	C-N	6.13	1.42	1.33
1	A	2141	ILE	C-N	6.12	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2190	PHE	C-N	-6.07	1.25	1.33
1	A	2190	PHE	C-N	-6.06	1.25	1.33
1	B	1916	PHE	C-N	-6.03	1.25	1.33
1	A	1916	PHE	C-N	-6.02	1.25	1.33
1	B	1817	VAL	C-N	6.00	1.40	1.33
1	A	1817	VAL	C-N	6.00	1.40	1.33
1	B	3853	THR	N-CA	5.98	1.53	1.46
1	A	3853	THR	N-CA	5.97	1.53	1.46
1	B	1788	GLN	C-N	-5.97	1.25	1.33
1	B	3863	LYS	C-N	-5.96	1.25	1.33
1	A	4006	VAL	N-CA	-5.95	1.39	1.46
1	B	2322	LEU	C-O	5.92	1.31	1.24
1	A	1788	GLN	C-N	-5.92	1.25	1.33
1	A	3863	LYS	C-N	-5.92	1.25	1.33
1	B	4006	VAL	N-CA	-5.91	1.39	1.46
1	A	1551	SER	C-N	5.88	1.42	1.33
1	B	1551	SER	C-N	5.88	1.42	1.33
1	A	1826	PHE	C-N	-5.82	1.25	1.33
1	B	1826	PHE	C-N	-5.80	1.25	1.33
1	A	2459	HIS	C-N	5.76	1.41	1.33
1	B	2459	HIS	C-N	5.74	1.41	1.33
1	B	2282	ASN	N-CA	5.71	1.53	1.46
1	B	2960	THR	C-N	5.70	1.41	1.34
1	A	2199	LEU	N-CA	-5.69	1.37	1.46
1	B	1884	GLU	C-N	5.69	1.40	1.33
1	B	2199	LEU	N-CA	-5.67	1.37	1.46
1	A	2282	ASN	N-CA	5.66	1.53	1.46
1	A	2960	THR	C-N	5.66	1.41	1.34
1	A	1878	HIS	C-N	-5.60	1.26	1.33
1	A	1884	GLU	C-N	5.59	1.40	1.33
1	A	1549	ILE	C-N	5.59	1.41	1.33
1	B	1878	HIS	C-N	-5.57	1.26	1.33
1	A	2188	PRO	C-N	-5.57	1.25	1.33
1	B	2188	PRO	C-N	-5.57	1.25	1.33
1	B	1549	ILE	C-N	5.56	1.41	1.33
1	A	4005	GLU	CA-C	5.50	1.59	1.52
1	B	4005	GLU	CA-C	5.49	1.59	1.52
1	B	2908	LEU	C-N	-5.47	1.26	1.33
1	A	2908	LEU	C-N	-5.46	1.26	1.33
1	A	3992	ILE	CA-C	5.46	1.59	1.52
1	A	3335	GLY	C-N	5.46	1.41	1.33
1	B	3335	GLY	C-N	5.45	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	3992	ILE	CA-C	5.44	1.59	1.52
1	A	2138	ASN	C-N	-5.41	1.25	1.33
1	B	2138	ASN	C-N	-5.38	1.25	1.33
1	A	3857	LYS	CA-CB	-5.36	1.44	1.53
1	B	3857	LYS	CA-CB	-5.33	1.44	1.53
1	B	1872	LEU	CA-CB	5.29	1.61	1.54
1	A	3855	LEU	CA-CB	5.27	1.61	1.53
1	A	2282	ASN	C-N	-5.26	1.26	1.34
1	B	1874	VAL	C-O	5.26	1.29	1.24
1	A	1872	LEU	CA-CB	5.25	1.61	1.54
1	A	3686	PHE	C-N	5.25	1.41	1.33
1	A	1874	VAL	C-O	5.25	1.29	1.24
1	B	3686	PHE	C-N	5.25	1.41	1.33
1	B	3855	LEU	CA-CB	5.24	1.61	1.53
1	A	4005	GLU	C-O	-5.23	1.18	1.24
1	B	2282	ASN	C-N	-5.23	1.26	1.34
1	A	3657	PHE	N-CA	-5.22	1.40	1.46
1	B	4005	GLU	C-O	-5.21	1.18	1.24
1	A	2207	ILE	CA-CB	5.20	1.61	1.54
1	B	2207	ILE	CA-CB	5.20	1.61	1.54
1	B	3657	PHE	N-CA	-5.18	1.40	1.46
1	B	1827	ASP	C-N	5.09	1.46	1.32
1	A	1827	ASP	C-N	5.08	1.45	1.32
1	A	4014	VAL	C-N	5.05	1.40	1.33
1	B	4003	ASP	CA-CB	-5.03	1.45	1.53
1	B	4014	VAL	C-N	5.03	1.40	1.33
1	A	4003	ASP	CA-CB	-5.03	1.45	1.53
1	B	1890	PRO	CA-C	5.03	1.58	1.52
1	B	3764	LYS	C-N	-5.00	1.26	1.33
1	A	1890	PRO	CA-C	5.00	1.58	1.52
1	A	3764	LYS	C-N	-5.00	1.26	1.33

All (1691) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3900	ILE	CA-C-N	38.80	168.34	119.84
1	A	3900	ILE	C-N-CA	38.80	168.34	119.84
1	B	3900	ILE	CA-C-N	38.73	168.26	119.84
1	B	3900	ILE	C-N-CA	38.73	168.26	119.84
1	A	2121	ALA	CA-C-O	38.42	161.24	120.89
1	B	2121	ALA	CA-C-O	38.40	161.21	120.89
1	B	1466	GLN	O-C-N	-37.74	72.39	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1466	GLN	O-C-N	-37.73	72.42	122.59
1	B	1466	GLN	CA-C-N	37.42	169.08	120.44
1	B	1466	GLN	C-N-CA	37.42	169.08	120.44
1	A	1466	GLN	CA-C-N	37.41	169.07	120.44
1	A	1466	GLN	C-N-CA	37.41	169.07	120.44
1	B	3917	THR	O-C-N	34.45	162.75	123.13
1	A	3917	THR	O-C-N	34.42	162.71	123.13
1	B	2159	ASP	O-C-N	34.41	145.94	121.85
1	A	2159	ASP	O-C-N	34.38	145.92	121.85
1	A	3434	GLU	O-C-N	-32.32	83.06	122.81
1	A	2655	ILE	O-C-N	-32.30	82.20	122.57
1	B	3434	GLU	O-C-N	-32.30	83.08	122.81
1	B	2655	ILE	O-C-N	-32.26	82.25	122.57
1	A	2656	PHE	O-C-N	-31.89	87.76	122.84
1	B	2656	PHE	O-C-N	-31.89	87.77	122.84
1	A	3435	GLY	O-C-N	-30.66	84.31	122.32
1	B	3435	GLY	O-C-N	-30.63	84.34	122.32
1	A	2005	SER	N-CA-C	30.06	152.20	111.92
1	B	2005	SER	N-CA-C	30.02	152.15	111.92
1	B	3501	PRO	N-CA-CB	29.53	134.25	103.25
1	A	3501	PRO	N-CA-CB	29.51	134.24	103.25
1	B	2436	SER	O-C-N	-28.99	77.09	122.61
1	A	2436	SER	O-C-N	-28.97	77.12	122.61
1	B	2555	ALA	O-C-N	-28.20	85.90	123.12
1	A	2555	ALA	O-C-N	-28.17	85.93	123.12
1	A	1477	LYS	N-CA-C	27.99	141.48	110.97
1	B	1477	LYS	N-CA-C	27.99	141.48	110.97
2	S	32	TYR	N-CA-C	-27.74	59.48	108.02
1	B	2375	ILE	CA-C-N	27.70	154.47	119.84
1	B	2375	ILE	C-N-CA	27.70	154.47	119.84
1	A	2375	ILE	CA-C-N	27.68	154.44	119.84
1	A	2375	ILE	C-N-CA	27.68	154.44	119.84
1	A	3900	ILE	O-C-N	27.67	152.65	121.10
1	B	3900	ILE	O-C-N	27.61	152.58	121.10
1	B	1960	CYS	CA-C-N	26.95	170.21	121.70
1	B	1960	CYS	C-N-CA	26.95	170.21	121.70
1	A	1960	CYS	CA-C-N	26.93	170.17	121.70
1	A	1960	CYS	C-N-CA	26.93	170.17	121.70
1	B	3381	GLU	O-C-N	-26.81	88.65	122.43
1	A	3381	GLU	O-C-N	-26.80	88.67	122.43
1	B	2101	VAL	O-C-N	-26.45	93.90	123.00
1	A	2101	VAL	O-C-N	-26.40	93.96	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2005	SER	CA-C-N	26.08	167.79	122.67
1	B	2005	SER	C-N-CA	26.08	167.79	122.67
1	A	2005	SER	CA-C-N	26.08	167.79	122.67
1	A	2005	SER	C-N-CA	26.08	167.79	122.67
1	A	2121	ALA	O-C-N	-25.59	91.92	122.11
1	B	2121	ALA	O-C-N	-25.58	91.92	122.11
1	A	2688	ASN	N-CA-C	25.27	145.40	111.28
1	B	2688	ASN	N-CA-C	25.24	145.36	111.28
1	A	2561	TYR	O-C-N	-25.06	82.90	123.00
1	B	2561	TYR	O-C-N	-25.05	82.92	123.00
1	B	3892	THR	CA-C-N	24.59	162.43	120.87
1	B	3892	THR	C-N-CA	24.59	162.43	120.87
1	A	3892	THR	CA-C-N	24.58	162.41	120.87
1	A	3892	THR	C-N-CA	24.58	162.41	120.87
1	A	1530	GLN	CA-C-N	-24.12	82.83	121.19
1	A	1530	GLN	C-N-CA	-24.12	82.83	121.19
1	B	1530	GLN	CA-C-N	-24.11	82.86	121.19
1	B	1530	GLN	C-N-CA	-24.11	82.86	121.19
1	B	2393	PRO	O-C-N	-23.72	90.62	122.64
1	A	2393	PRO	O-C-N	-23.71	90.64	122.64
1	A	3382	CYS	CA-C-N	23.68	164.33	121.70
1	A	3382	CYS	C-N-CA	23.68	164.33	121.70
1	B	3382	CYS	CA-C-N	23.67	164.31	121.70
1	B	3382	CYS	C-N-CA	23.67	164.31	121.70
1	B	2961	ILE	O-C-N	-23.52	98.84	121.89
1	A	2961	ILE	O-C-N	-23.51	98.85	121.89
1	B	1813	LEU	O-C-N	-23.23	94.69	122.11
1	A	1813	LEU	O-C-N	-23.23	94.70	122.11
1	B	3685	GLN	CA-C-N	-22.81	77.98	121.54
1	B	3685	GLN	C-N-CA	-22.81	77.98	121.54
1	A	3685	GLN	CA-C-N	-22.80	77.99	121.54
1	A	3685	GLN	C-N-CA	-22.80	77.99	121.54
1	A	3682	VAL	CA-C-N	22.63	157.17	121.19
1	A	3682	VAL	C-N-CA	22.63	157.17	121.19
1	B	3682	VAL	CA-C-N	22.62	157.16	121.19
1	B	3682	VAL	C-N-CA	22.62	157.16	121.19
1	A	2005	SER	CB-CA-C	-22.60	80.89	111.63
1	B	2005	SER	CB-CA-C	-22.60	80.89	111.63
1	B	2005	SER	O-C-N	-22.52	92.74	122.47
1	A	2005	SER	O-C-N	-22.51	92.75	122.47
1	A	1961	SER	CA-C-N	-22.37	82.87	120.23
1	A	1961	SER	C-N-CA	-22.37	82.87	120.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1961	SER	CA-C-N	-22.36	82.89	120.23
1	B	1961	SER	C-N-CA	-22.36	82.89	120.23
1	A	1828	TYR	N-CA-C	21.94	142.36	113.18
1	B	1828	TYR	N-CA-C	21.91	142.31	113.18
1	A	3421	TYR	N-CA-C	21.84	141.50	108.31
1	B	3421	TYR	N-CA-C	21.83	141.49	108.31
1	A	3709	ASP	CA-C-N	21.65	160.93	121.97
1	A	3709	ASP	C-N-CA	21.65	160.93	121.97
1	B	3335	GLY	O-C-N	-21.63	94.58	122.70
1	A	3335	GLY	O-C-N	-21.63	94.58	122.70
1	B	3709	ASP	CA-C-N	21.62	160.88	121.97
1	B	3709	ASP	C-N-CA	21.62	160.88	121.97
1	A	1381	ALA	O-C-N	-21.59	90.63	121.72
1	B	1381	ALA	O-C-N	-21.58	90.65	121.72
1	A	2375	ILE	CB-CA-C	21.45	150.40	111.36
1	B	2375	ILE	CB-CA-C	21.43	150.36	111.36
1	A	2018	LEU	CA-C-N	21.30	162.22	121.54
1	A	2018	LEU	C-N-CA	21.30	162.22	121.54
1	B	2018	LEU	CA-C-N	21.30	162.22	121.54
1	B	2018	LEU	C-N-CA	21.30	162.22	121.54
1	B	1961	SER	CB-CA-C	-21.28	69.66	110.10
1	B	3999	ASP	N-CA-C	21.28	156.12	110.80
1	A	3999	ASP	N-CA-C	21.27	156.12	110.80
1	A	1961	SER	CB-CA-C	-21.26	69.71	110.10
1	A	1820	PHE	CA-C-N	20.90	146.72	121.64
1	A	1820	PHE	C-N-CA	20.90	146.72	121.64
1	B	1820	PHE	CA-C-N	20.90	146.72	121.64
1	B	1820	PHE	C-N-CA	20.90	146.72	121.64
1	B	1494	ASP	CA-C-N	-20.62	92.46	121.33
1	B	1494	ASP	C-N-CA	-20.62	92.46	121.33
1	A	1494	ASP	CA-C-N	-20.61	92.47	121.33
1	A	1494	ASP	C-N-CA	-20.61	92.47	121.33
1	A	3405	PRO	N-CA-C	20.57	154.83	112.47
1	B	3405	PRO	N-CA-C	20.57	154.84	112.47
1	B	1816	VAL	N-CA-C	20.46	151.90	109.34
1	A	1816	VAL	N-CA-C	20.44	151.86	109.34
1	A	1820	PHE	O-C-N	-20.38	100.38	123.40
1	B	1820	PHE	O-C-N	-20.37	100.38	123.40
1	A	1987	PHE	O-C-N	-20.08	90.87	123.00
1	B	1987	PHE	O-C-N	-20.07	90.89	123.00
1	B	3369	TYR	N-CA-C	20.05	153.50	110.80
1	A	3369	TYR	N-CA-C	20.05	153.50	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2159	ASP	CA-C-N	-20.03	94.80	119.84
1	B	2159	ASP	C-N-CA	-20.03	94.80	119.84
1	A	2159	ASP	CA-C-N	-20.03	94.80	119.84
1	A	2159	ASP	C-N-CA	-20.03	94.80	119.84
1	B	1960	CYS	O-C-N	19.71	148.85	123.23
1	A	1960	CYS	O-C-N	19.69	148.83	123.23
1	A	4015	PHE	CA-C-N	19.37	156.56	121.70
1	A	4015	PHE	C-N-CA	19.37	156.56	121.70
1	B	4015	PHE	CA-C-N	19.34	156.50	121.70
1	B	4015	PHE	C-N-CA	19.34	156.50	121.70
1	B	1961	SER	O-C-N	-19.29	92.13	123.00
1	A	1961	SER	O-C-N	-19.28	92.15	123.00
1	B	3426	THR	CA-C-N	-19.10	92.72	121.95
1	B	3426	THR	C-N-CA	-19.10	92.72	121.95
1	A	3426	THR	CA-C-N	-19.10	92.73	121.95
1	A	3426	THR	C-N-CA	-19.10	92.73	121.95
1	B	2279	ARG	CA-C-N	-18.99	83.27	122.58
1	B	2279	ARG	C-N-CA	-18.99	83.27	122.58
1	A	2279	ARG	CA-C-N	-18.98	83.29	122.58
1	A	2279	ARG	C-N-CA	-18.98	83.29	122.58
2	S	32	TYR	CA-C-O	-18.97	100.48	120.40
1	B	2065	LYS	CB-CA-C	-18.93	80.37	109.90
1	A	2065	LYS	CB-CA-C	-18.91	80.41	109.90
1	A	2437	LEU	N-CA-CB	-18.81	81.14	111.62
1	B	2437	LEU	N-CA-CB	-18.81	81.16	111.62
1	B	2003	LEU	O-C-N	-18.70	93.07	123.00
1	A	2003	LEU	O-C-N	-18.70	93.08	123.00
1	A	3709	ASP	O-C-N	-18.69	99.47	122.65
1	B	3709	ASP	O-C-N	-18.68	99.49	122.65
1	B	3644	ILE	O-C-N	18.62	145.84	122.57
1	A	3644	ILE	O-C-N	18.59	145.81	122.57
1	A	3682	VAL	O-C-N	-18.50	99.44	122.57
1	B	3682	VAL	O-C-N	-18.50	99.45	122.57
1	B	1635	ASP	CB-CA-C	18.49	145.23	110.10
1	A	1635	ASP	CB-CA-C	18.48	145.20	110.10
1	B	2199	LEU	O-C-N	18.46	144.11	122.88
1	A	2199	LEU	O-C-N	18.41	144.06	122.88
1	B	2345	TYR	CA-C-N	18.35	156.59	121.54
1	B	2345	TYR	C-N-CA	18.35	156.59	121.54
1	A	2345	TYR	CA-C-N	18.31	156.51	121.54
1	A	2345	TYR	C-N-CA	18.31	156.51	121.54
1	A	2870	GLU	N-CA-C	-18.29	83.35	109.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2870	GLU	N-CA-C	-18.29	83.34	109.31
1	A	3866	GLU	N-CA-C	-18.18	68.23	107.49
1	B	3866	GLU	N-CA-C	-18.17	68.23	107.49
1	A	2432	LEU	O-C-N	-18.15	93.97	123.00
1	B	2432	LEU	O-C-N	-18.14	93.97	123.00
1	B	3400	SER	O-C-N	-18.08	97.47	122.41
1	A	3400	SER	O-C-N	-18.07	97.47	122.41
1	A	3405	PRO	CA-C-N	18.01	155.93	121.54
1	A	3405	PRO	C-N-CA	18.01	155.93	121.54
1	B	3405	PRO	CA-C-N	17.99	155.90	121.54
1	B	3405	PRO	C-N-CA	17.99	155.90	121.54
1	A	1985	SER	O-C-N	17.89	151.63	123.00
1	B	1985	SER	O-C-N	17.89	151.62	123.00
1	B	3333	TYR	CA-C-N	-17.89	87.38	121.54
1	B	3333	TYR	C-N-CA	-17.89	87.38	121.54
1	A	3333	TYR	CA-C-N	-17.88	87.39	121.54
1	A	3333	TYR	C-N-CA	-17.88	87.39	121.54
1	A	2843	LEU	CB-CA-C	17.82	145.88	110.42
1	B	2843	LEU	CB-CA-C	17.82	145.88	110.42
1	B	1849	GLU	CA-C-N	17.80	153.75	121.70
1	B	1849	GLU	C-N-CA	17.80	153.75	121.70
1	A	1849	GLU	CA-C-N	17.79	153.73	121.70
1	A	1849	GLU	C-N-CA	17.79	153.73	121.70
1	A	3739	ASP	N-CA-C	17.76	160.72	111.00
1	B	3739	ASP	N-CA-C	17.75	160.69	111.00
1	B	2596	SER	CA-C-N	17.74	143.49	120.60
1	B	2596	SER	C-N-CA	17.74	143.49	120.60
1	A	2596	SER	CA-C-N	17.72	143.46	120.60
1	A	2596	SER	C-N-CA	17.72	143.46	120.60
1	B	1984	ILE	CA-C-N	-17.72	89.81	121.70
1	B	1984	ILE	C-N-CA	-17.72	89.81	121.70
1	A	1984	ILE	CA-C-N	-17.71	89.81	121.70
1	A	1984	ILE	C-N-CA	-17.71	89.81	121.70
1	B	1802	LYS	O-C-N	-17.66	103.88	122.07
1	A	1801	GLY	O-C-N	-17.62	100.05	122.43
1	A	3685	GLN	N-CA-CB	-17.62	80.70	110.49
1	B	3685	GLN	N-CA-CB	-17.62	80.71	110.49
1	A	1802	LYS	O-C-N	-17.62	103.92	122.07
1	B	1801	GLY	O-C-N	-17.60	100.08	122.43
1	A	1635	ASP	O-C-N	-17.49	95.01	123.00
1	B	1635	ASP	O-C-N	-17.49	95.01	123.00
1	B	2602	GLU	CA-C-N	17.48	143.16	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2602	GLU	C-N-CA	17.48	143.16	120.44
1	A	2602	GLU	CA-C-N	17.47	143.15	120.44
1	A	2602	GLU	C-N-CA	17.47	143.15	120.44
1	B	3992	ILE	N-CA-C	-17.44	92.83	110.62
1	A	3992	ILE	N-CA-C	-17.44	92.83	110.62
1	B	3898	GLU	CA-C-N	17.38	158.71	122.04
1	B	3898	GLU	C-N-CA	17.38	158.71	122.04
1	A	3898	GLU	CA-C-N	17.37	158.69	122.04
1	A	3898	GLU	C-N-CA	17.37	158.69	122.04
1	B	2882	ALA	CA-C-N	-17.37	90.30	123.13
1	B	2882	ALA	C-N-CA	-17.37	90.30	123.13
1	A	2882	ALA	CA-C-N	-17.36	90.32	123.13
1	A	2882	ALA	C-N-CA	-17.36	90.32	123.13
1	B	2555	ALA	CA-C-N	17.34	152.92	121.70
1	B	2555	ALA	C-N-CA	17.34	152.92	121.70
1	B	2938	MET	N-CA-C	-17.34	90.19	112.90
1	B	1813	LEU	CA-C-N	17.33	152.90	121.70
1	B	1813	LEU	C-N-CA	17.33	152.90	121.70
1	A	2555	ALA	CA-C-N	17.33	152.89	121.70
1	A	2555	ALA	C-N-CA	17.33	152.89	121.70
1	A	2938	MET	N-CA-C	-17.32	90.21	112.90
1	A	1813	LEU	CA-C-N	17.32	152.87	121.70
1	A	1813	LEU	C-N-CA	17.32	152.87	121.70
1	A	2688	ASN	CB-CA-C	-17.21	86.98	112.11
1	B	2688	ASN	CB-CA-C	-17.20	87.00	112.11
1	A	1940	GLU	N-CA-C	17.09	147.20	110.80
1	B	1940	GLU	N-CA-C	17.08	147.18	110.80
1	A	2345	TYR	N-CA-C	-17.03	84.99	109.18
1	B	2345	TYR	N-CA-C	-17.02	85.01	109.18
1	B	1888	LEU	CA-C-N	16.91	145.12	121.61
1	B	1888	LEU	C-N-CA	16.91	145.12	121.61
1	A	3684	CYS	CB-CA-C	-16.91	82.55	111.30
1	A	1888	LEU	CA-C-N	16.89	145.09	121.61
1	A	1888	LEU	C-N-CA	16.89	145.09	121.61
1	B	3684	CYS	CB-CA-C	-16.89	82.59	111.30
1	B	2066	THR	O-C-N	16.83	144.97	122.59
1	A	2002	ILE	O-C-N	16.82	141.48	122.64
1	A	2066	THR	O-C-N	16.81	144.95	122.59
1	B	1941	ASP	N-CA-CB	-16.80	84.16	110.19
1	A	1941	ASP	N-CA-CB	-16.79	84.17	110.19
1	A	3401	GLN	CB-CA-C	-16.79	78.21	110.10
1	B	3401	GLN	CB-CA-C	-16.78	78.22	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2002	ILE	O-C-N	16.77	141.42	122.64
1	A	1636	ILE	N-CA-CB	16.76	139.99	111.50
1	B	1636	ILE	N-CA-CB	16.75	139.98	111.50
1	B	1984	ILE	O-C-N	-16.73	101.66	122.57
1	B	3820	GLU	N-CA-C	16.71	129.58	111.36
1	A	1984	ILE	O-C-N	-16.70	101.70	122.57
1	A	3820	GLU	N-CA-C	16.70	129.56	111.36
1	A	3382	CYS	CB-CA-C	-16.57	78.63	110.10
1	B	1888	LEU	N-CA-C	16.57	146.08	110.80
1	A	1888	LEU	N-CA-C	16.55	146.06	110.80
1	B	3382	CYS	CB-CA-C	-16.55	78.64	110.10
1	A	3753	THR	N-CA-C	16.54	146.03	110.80
1	B	3753	THR	N-CA-C	16.53	146.01	110.80
1	A	3684	CYS	O-C-N	-16.36	101.90	122.68
1	B	3684	CYS	O-C-N	-16.35	101.92	122.68
1	B	2348	HIS	N-CA-CB	-16.29	82.80	110.50
1	A	2348	HIS	N-CA-CB	-16.29	82.80	110.50
1	B	3684	CYS	CA-C-N	16.25	152.58	121.54
1	B	3684	CYS	C-N-CA	16.25	152.58	121.54
1	A	3684	CYS	CA-C-N	16.24	152.57	121.54
1	A	3684	CYS	C-N-CA	16.24	152.57	121.54
1	A	3998	ILE	CA-C-N	-16.23	90.54	121.54
1	A	3998	ILE	C-N-CA	-16.23	90.54	121.54
1	B	3998	ILE	CA-C-N	-16.22	90.57	121.54
1	B	3998	ILE	C-N-CA	-16.22	90.57	121.54
1	A	2187	PRO	N-CA-CB	16.12	118.72	103.08
1	B	2187	PRO	N-CA-CB	16.11	118.70	103.08
1	A	2126	ARG	N-CA-C	15.94	144.74	110.80
1	B	2309	SER	O-C-N	-15.94	107.03	121.85
1	B	2126	ARG	N-CA-C	15.93	144.74	110.80
1	A	2309	SER	O-C-N	-15.92	107.05	121.85
1	B	3382	CYS	N-CA-C	15.89	155.50	111.00
1	A	3382	CYS	N-CA-C	15.89	155.49	111.00
1	A	3381	GLU	CA-C-N	15.88	150.28	121.70
1	A	3381	GLU	C-N-CA	15.88	150.28	121.70
1	A	2066	THR	N-CA-CB	15.87	137.31	110.49
1	B	2066	THR	N-CA-CB	15.87	137.31	110.49
1	A	2655	ILE	CA-C-N	15.85	159.94	123.16
1	A	2655	ILE	C-N-CA	15.85	159.94	123.16
1	B	2655	ILE	CA-C-N	15.85	159.92	123.16
1	B	2655	ILE	C-N-CA	15.85	159.92	123.16
1	B	3381	GLU	CA-C-N	15.84	150.21	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	3381	GLU	C-N-CA	15.84	150.21	121.70
1	A	3514	ARG	O-C-N	15.82	140.83	122.96
1	B	3514	ARG	O-C-N	15.80	140.81	122.96
1	A	2462	THR	O-C-N	15.71	139.06	122.09
1	B	1755	LEU	N-CA-C	15.68	144.19	110.80
1	A	1755	LEU	N-CA-C	15.67	144.18	110.80
1	B	2462	THR	O-C-N	15.67	139.01	122.09
1	A	3400	SER	CA-C-N	15.65	149.87	121.70
1	A	3400	SER	C-N-CA	15.65	149.87	121.70
1	B	3400	SER	CA-C-N	15.64	149.84	121.70
1	B	3400	SER	C-N-CA	15.64	149.84	121.70
1	B	3999	ASP	CB-CA-C	-15.59	79.39	110.42
1	A	3999	ASP	CB-CA-C	-15.59	79.40	110.42
1	A	1634	THR	N-CA-CB	-15.55	85.06	111.50
1	B	1634	THR	N-CA-CB	-15.55	85.06	111.50
1	B	2873	LEU	N-CA-C	-15.52	94.38	111.14
1	A	2873	LEU	N-CA-C	-15.49	94.41	111.14
1	B	2116	GLY	O-C-N	15.49	137.06	122.19
1	B	3860	GLU	N-CA-C	15.48	127.64	111.07
1	A	2116	GLY	O-C-N	15.47	137.04	122.19
1	A	3860	GLU	N-CA-C	15.45	127.60	111.07
1	B	3333	TYR	O-C-N	15.35	142.20	122.39
1	A	3333	TYR	O-C-N	15.33	142.16	122.39
1	B	2120	LYS	N-CA-CB	-15.19	87.36	110.45
1	A	2120	LYS	N-CA-CB	-15.17	87.39	110.45
1	B	2582	VAL	N-CA-CB	-15.16	85.73	111.50
1	B	2120	LYS	N-CA-C	15.15	131.01	110.55
1	A	2582	VAL	N-CA-CB	-15.15	85.75	111.50
1	A	2120	LYS	N-CA-C	15.14	131.00	110.55
1	A	2279	ARG	O-C-N	-15.09	102.52	122.59
1	B	2279	ARG	O-C-N	-15.08	102.54	122.59
1	A	1479	LEU	O-C-N	-15.01	102.81	122.33
1	B	1479	LEU	O-C-N	-15.00	102.83	122.33
1	A	2119	LEU	N-CA-C	14.92	142.58	110.80
1	B	2119	LEU	N-CA-C	14.90	142.54	110.80
1	B	1815	ARG	O-C-N	-14.87	99.20	123.00
1	A	1815	ARG	O-C-N	-14.86	99.23	123.00
1	A	1827	ASP	CB-CA-C	-14.78	81.00	110.42
1	A	3859	VAL	N-CA-C	14.79	124.61	110.42
1	B	1827	ASP	CB-CA-C	-14.78	81.01	110.42
1	B	3859	VAL	N-CA-C	14.74	124.57	110.42
1	B	3990	ALA	N-CA-C	-14.73	95.23	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3990	ALA	N-CA-C	-14.71	95.25	111.14
1	A	1825	SER	N-CA-C	-14.65	79.59	110.80
1	B	1825	SER	N-CA-C	-14.65	79.58	110.80
1	A	1818	VAL	N-CA-C	14.62	132.88	109.78
1	B	1818	VAL	N-CA-C	14.61	132.86	109.78
1	B	1962	SER	N-CA-C	14.46	136.28	112.99
1	A	1962	SER	N-CA-C	14.45	136.25	112.99
1	A	1817	VAL	N-CA-C	14.42	139.34	109.34
1	B	1817	VAL	N-CA-C	14.42	139.33	109.34
1	B	2186	ILE	O-C-N	14.40	137.52	121.10
1	A	2186	ILE	O-C-N	14.39	137.51	121.10
1	A	3863	LYS	O-C-N	-14.31	102.80	121.83
1	B	3863	LYS	O-C-N	-14.30	102.81	121.83
1	B	3710	ILE	O-C-N	-14.30	104.69	122.57
1	A	3710	ILE	O-C-N	-14.28	104.72	122.57
1	A	3681	GLU	N-CA-C	14.23	130.81	113.16
1	B	3681	GLU	N-CA-C	14.22	130.80	113.16
1	A	2577	ALA	CB-CA-C	14.13	138.54	110.42
1	B	2577	ALA	CB-CA-C	14.12	138.52	110.42
1	B	2108	VAL	O-C-N	-14.11	104.93	122.57
1	A	2108	VAL	O-C-N	-14.11	104.93	122.57
1	A	1789	LYS	O-C-N	14.05	141.28	122.59
1	B	1789	LYS	O-C-N	14.04	141.27	122.59
1	A	2578	ILE	O-C-N	-14.00	105.07	122.57
1	B	2431	ALA	O-C-N	-13.99	103.98	122.59
1	B	2578	ILE	O-C-N	-13.99	105.08	122.57
1	A	2431	ALA	O-C-N	-13.98	104.00	122.59
1	B	2943	PHE	N-CA-C	-13.90	93.08	111.71
1	A	2943	PHE	N-CA-C	-13.89	93.09	111.71
1	B	3681	GLU	CB-CA-C	-13.88	85.02	110.01
1	A	3681	GLU	CB-CA-C	-13.86	85.06	110.01
1	B	3420	ASN	O-C-N	-13.83	104.20	122.59
1	A	3420	ASN	O-C-N	-13.82	104.20	122.59
1	B	2303	GLN	N-CA-C	-13.70	85.80	108.67
1	A	2303	GLN	N-CA-C	-13.68	85.83	108.67
1	A	2640	THR	CB-CA-C	-13.59	83.37	110.42
1	B	2640	THR	CB-CA-C	-13.59	83.37	110.42
1	B	3405	PRO	O-C-N	-13.50	104.42	122.64
1	A	3405	PRO	O-C-N	-13.49	104.43	122.64
1	B	2579	PHE	O-C-N	13.41	146.47	122.34
1	A	2579	PHE	O-C-N	13.40	146.47	122.34
1	A	1633	GLY	CA-C-N	-13.35	97.67	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1633	GLY	C-N-CA	-13.35	97.67	121.70
1	B	1633	GLY	CA-C-N	-13.33	97.71	121.70
1	B	1633	GLY	C-N-CA	-13.33	97.71	121.70
1	A	2432	LEU	CA-C-N	13.24	146.83	121.54
1	A	2432	LEU	C-N-CA	13.24	146.83	121.54
1	B	2432	LEU	CA-C-N	13.24	146.83	121.54
1	B	2432	LEU	C-N-CA	13.24	146.83	121.54
1	B	2937	PRO	O-C-N	-13.22	104.80	122.64
1	A	2937	PRO	O-C-N	-13.18	104.84	122.64
1	A	1983	LEU	CA-C-N	13.12	145.59	121.97
1	A	1983	LEU	C-N-CA	13.12	145.59	121.97
1	B	1983	LEU	CA-C-N	13.12	145.58	121.97
1	B	1983	LEU	C-N-CA	13.12	145.58	121.97
1	B	1815	ARG	CA-C-N	13.10	145.54	121.97
1	B	1815	ARG	C-N-CA	13.10	145.54	121.97
1	A	1815	ARG	CA-C-N	13.09	145.54	121.97
1	A	1815	ARG	C-N-CA	13.09	145.54	121.97
1	B	3409	ASP	N-CA-C	13.06	119.70	108.07
1	A	3409	ASP	N-CA-C	13.03	119.67	108.07
1	A	1969	GLY	O-C-N	-12.99	105.81	122.70
1	A	4047	ALA	CA-C-N	-12.99	98.33	121.70
1	A	4047	ALA	C-N-CA	-12.99	98.33	121.70
1	B	4047	ALA	CA-C-N	-12.99	98.33	121.70
1	B	4047	ALA	C-N-CA	-12.99	98.33	121.70
1	B	1969	GLY	O-C-N	-12.98	105.82	122.70
1	A	1817	VAL	CB-CA-C	-12.91	90.11	111.29
1	B	1817	VAL	CB-CA-C	-12.91	90.12	111.29
1	A	3740	THR	CB-CA-C	-12.82	80.89	109.10
1	B	3740	THR	CB-CA-C	-12.82	80.89	109.10
1	A	2436	SER	CA-C-N	-12.81	101.87	122.36
1	A	2436	SER	C-N-CA	-12.81	101.87	122.36
1	B	2436	SER	CA-C-N	-12.80	101.87	122.36
1	B	2436	SER	C-N-CA	-12.80	101.87	122.36
1	A	3501	PRO	N-CA-C	-12.80	86.10	112.47
1	B	3501	PRO	N-CA-C	-12.80	86.10	112.47
1	A	3369	TYR	CB-CA-C	-12.77	85.00	110.42
1	B	1962	SER	N-CA-CB	-12.77	83.39	111.10
1	A	1962	SER	N-CA-CB	-12.77	83.40	111.10
1	B	3369	TYR	CB-CA-C	-12.77	85.02	110.42
1	A	2527	GLU	O-C-N	-12.73	107.90	123.05
1	B	2527	GLU	O-C-N	-12.72	107.91	123.05
1	B	1872	LEU	N-CA-C	-12.62	97.81	113.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1872	LEU	N-CA-C	-12.62	97.82	113.97
1	A	2348	HIS	N-CA-C	12.58	146.22	111.00
1	B	2348	HIS	N-CA-C	12.57	146.21	111.00
1	A	2709	LYS	O-C-N	12.56	143.09	123.00
1	B	2709	LYS	O-C-N	12.55	143.08	123.00
1	B	2843	LEU	N-CA-C	-12.51	84.16	110.80
1	A	2843	LEU	N-CA-C	-12.50	84.17	110.80
1	A	4047	ALA	O-C-N	12.50	138.64	122.39
1	B	4047	ALA	O-C-N	12.50	138.64	122.39
1	B	2018	LEU	O-C-N	-12.43	106.06	122.59
1	A	2018	LEU	O-C-N	-12.42	106.07	122.59
1	A	1989	GLU	CA-C-N	12.40	144.49	122.05
1	A	1989	GLU	C-N-CA	12.40	144.49	122.05
1	B	1989	GLU	CA-C-N	12.38	144.46	122.05
1	B	1989	GLU	C-N-CA	12.38	144.46	122.05
1	B	3405	PRO	CB-CA-C	-12.37	91.15	111.56
1	A	3405	PRO	CB-CA-C	-12.35	91.18	111.56
1	A	2656	PHE	N-CA-C	-12.35	88.81	109.80
1	B	2656	PHE	N-CA-C	-12.35	88.81	109.80
1	B	3866	GLU	CB-CA-C	-12.29	91.11	111.51
1	A	3866	GLU	CB-CA-C	-12.27	91.14	111.51
1	A	2196	THR	O-C-N	-12.24	106.31	122.59
1	A	2844	PHE	N-CA-CB	12.24	131.31	110.50
1	B	2844	PHE	N-CA-CB	12.24	131.31	110.50
1	B	2196	THR	O-C-N	-12.23	106.32	122.59
1	A	3336	HIS	N-CA-CB	12.22	131.28	110.50
1	B	3336	HIS	N-CA-CB	12.22	131.28	110.50
1	B	3755	SER	O-C-N	-12.17	106.41	122.59
1	A	3755	SER	O-C-N	-12.15	106.42	122.59
1	A	2485	PHE	N-CA-C	12.13	136.63	110.80
1	B	2485	PHE	N-CA-C	12.12	136.62	110.80
1	B	2372	CYS	N-CA-C	12.12	144.93	111.00
1	A	3893	ASP	O-C-N	12.11	136.92	122.75
1	A	2372	CYS	N-CA-C	12.11	144.89	111.00
1	A	2379	SER	CB-CA-C	12.10	133.09	110.10
1	B	2379	SER	CB-CA-C	12.10	133.09	110.10
1	B	3893	ASP	O-C-N	12.10	136.91	122.75
1	A	2640	THR	N-CA-C	12.09	136.55	110.80
1	B	2640	THR	N-CA-C	12.09	136.55	110.80
1	A	2198	ASN	CA-C-N	12.08	145.63	121.95
1	A	2198	ASN	C-N-CA	12.08	145.63	121.95
1	B	3899	ASP	CA-C-N	-12.07	99.79	122.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	3899	ASP	C-N-CA	-12.07	99.79	122.13
1	A	3899	ASP	CA-C-N	-12.07	99.81	122.13
1	A	3899	ASP	C-N-CA	-12.07	99.81	122.13
1	B	2198	ASN	CA-C-N	12.06	145.59	121.95
1	B	2198	ASN	C-N-CA	12.06	145.59	121.95
1	A	2637	PRO	CA-C-N	12.02	143.56	122.89
1	A	2637	PRO	C-N-CA	12.02	143.56	122.89
1	B	2637	PRO	CA-C-N	12.00	143.53	122.89
1	B	2637	PRO	C-N-CA	12.00	143.53	122.89
1	A	3370	LEU	N-CA-C	-11.95	77.55	111.00
1	B	3370	LEU	N-CA-C	-11.93	77.58	111.00
1	A	2633	ILE	O-C-N	-11.85	107.76	122.57
1	B	2633	ILE	O-C-N	-11.84	107.77	122.57
1	B	2437	LEU	N-CA-C	11.81	126.74	109.14
1	A	2437	LEU	N-CA-C	11.81	126.73	109.14
1	A	1944	SER	N-CA-C	-11.76	96.10	112.45
1	B	3360	TYR	O-C-N	11.75	141.79	123.00
1	A	3410	PRO	CA-C-N	-11.74	104.29	120.38
1	A	3410	PRO	C-N-CA	-11.74	104.29	120.38
1	B	1944	SER	N-CA-C	-11.74	96.13	112.45
1	A	3999	ASP	CA-C-N	11.74	136.46	120.38
1	A	3999	ASP	C-N-CA	11.74	136.46	120.38
1	B	3410	PRO	CA-C-N	-11.73	104.30	120.38
1	B	3410	PRO	C-N-CA	-11.73	104.30	120.38
1	A	3360	TYR	O-C-N	11.73	141.77	123.00
1	B	3999	ASP	CA-C-N	11.73	136.45	120.38
1	B	3999	ASP	C-N-CA	11.73	136.45	120.38
1	B	3878	HIS	O-C-N	-11.68	104.32	123.00
1	A	3680	GLN	N-CA-C	11.66	123.99	111.28
1	B	2724	CYS	N-CA-C	11.65	124.16	110.41
1	B	3680	GLN	N-CA-C	11.65	123.98	111.28
1	A	3878	HIS	O-C-N	-11.65	104.36	123.00
1	B	3641	PHE	N-CA-C	11.63	135.57	110.80
1	A	3641	PHE	N-CA-C	11.62	135.56	110.80
1	B	1800	THR	O-C-N	-11.51	108.31	122.24
1	A	2191	ARG	N-CA-C	11.51	125.17	110.33
1	A	1800	THR	O-C-N	-11.51	108.32	122.24
1	B	2191	ARG	N-CA-C	11.50	125.17	110.33
1	B	2201	HIS	O-C-N	11.49	135.30	122.20
1	A	2198	ASN	O-C-N	-11.48	109.83	123.27
1	B	2198	ASN	O-C-N	-11.47	109.85	123.27
1	B	1986	GLU	CA-C-N	-11.46	101.06	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1986	GLU	C-N-CA	-11.46	101.06	121.70
1	A	1986	GLU	CA-C-N	-11.46	101.07	121.70
1	A	1986	GLU	C-N-CA	-11.46	101.07	121.70
1	A	2201	HIS	O-C-N	11.46	135.27	122.20
1	B	3410	PRO	CB-CA-C	-11.33	92.86	111.56
1	A	3410	PRO	CB-CA-C	-11.31	92.90	111.56
1	B	3821	ASN	N-CA-C	11.30	123.16	111.07
1	A	3821	ASN	N-CA-C	11.29	123.15	111.07
1	A	1633	GLY	O-C-N	-11.25	105.00	123.00
1	B	1633	GLY	O-C-N	-11.23	105.02	123.00
1	A	3892	THR	N-CA-C	11.23	142.44	111.00
1	B	3892	THR	N-CA-C	11.22	142.43	111.00
1	A	4036	GLN	O-C-N	-11.15	105.16	123.00
1	A	2462	THR	CA-C-N	-11.15	105.34	120.28
1	A	2462	THR	C-N-CA	-11.15	105.34	120.28
1	B	4036	GLN	O-C-N	-11.13	105.20	123.00
1	B	2462	THR	CA-C-N	-11.12	105.38	120.28
1	B	2462	THR	C-N-CA	-11.12	105.38	120.28
1	B	2461	HIS	N-CA-C	-11.10	99.57	113.55
1	A	2461	HIS	N-CA-C	-11.06	99.62	113.55
1	A	3754	LYS	N-CA-C	-11.02	87.32	110.80
1	A	2936	VAL	O-C-N	-11.02	108.54	121.10
1	B	2936	VAL	O-C-N	-11.02	108.54	121.10
1	B	3754	LYS	N-CA-C	-11.02	87.34	110.80
1	A	2641	LEU	N-CA-C	-10.98	99.39	111.36
1	B	2641	LEU	N-CA-C	-10.97	99.40	111.36
1	A	2486	CYS	N-CA-CB	-10.96	91.87	110.50
1	A	2758	LEU	O-C-N	10.96	137.17	122.59
1	A	1941	ASP	CA-C-N	-10.95	101.98	121.70
1	A	1941	ASP	C-N-CA	-10.95	101.98	121.70
1	B	2486	CYS	N-CA-CB	-10.95	91.88	110.50
1	B	1941	ASP	CA-C-N	-10.94	102.00	121.70
1	B	1941	ASP	C-N-CA	-10.94	102.00	121.70
1	A	2199	LEU	N-CA-C	10.91	123.28	108.23
1	B	2758	LEU	O-C-N	10.91	137.10	122.59
1	A	3996	GLY	O-C-N	10.90	136.87	122.70
1	B	3996	GLY	O-C-N	10.90	136.87	122.70
1	B	2199	LEU	N-CA-C	10.89	123.26	108.23
1	B	1636	ILE	N-CA-C	-10.85	80.62	111.00
1	A	1636	ILE	N-CA-C	-10.84	80.64	111.00
1	B	2103	VAL	O-C-N	10.82	134.28	122.92
1	A	3641	PHE	CA-C-N	10.80	141.39	121.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3641	PHE	C-N-CA	10.80	141.39	121.52
1	B	3641	PHE	CA-C-N	10.78	141.36	121.52
1	B	3641	PHE	C-N-CA	10.78	141.36	121.52
1	A	2103	VAL	O-C-N	10.75	134.21	122.92
1	A	2012	LEU	N-CA-C	10.73	123.05	111.36
1	B	2012	LEU	N-CA-C	10.72	123.05	111.36
1	A	2066	THR	CB-CA-C	-10.71	89.11	110.42
1	B	2066	THR	CB-CA-C	-10.71	89.11	110.42
1	A	3917	THR	CA-C-N	-10.70	102.45	121.70
1	A	3917	THR	C-N-CA	-10.70	102.45	121.70
1	B	3917	THR	CA-C-N	-10.69	102.46	121.70
1	B	3917	THR	C-N-CA	-10.69	102.46	121.70
1	B	1877	SER	O-C-N	-10.67	108.40	122.59
1	A	1877	SER	O-C-N	-10.66	108.41	122.59
1	A	2581	LEU	CB-CA-C	-10.66	90.60	112.99
1	A	1789	LYS	CA-C-N	-10.66	101.18	121.54
1	A	1789	LYS	C-N-CA	-10.66	101.18	121.54
1	B	1789	LYS	CA-C-N	-10.65	101.19	121.54
1	B	1789	LYS	C-N-CA	-10.65	101.19	121.54
1	B	2581	LEU	CB-CA-C	-10.65	90.62	112.99
1	B	1940	GLU	CB-CA-C	-10.61	89.30	110.42
1	A	2302	PHE	CA-C-N	10.61	138.53	123.04
1	A	2302	PHE	C-N-CA	10.61	138.53	123.04
1	B	2302	PHE	CA-C-N	10.61	138.53	123.04
1	B	2302	PHE	C-N-CA	10.61	138.53	123.04
1	A	1940	GLU	CB-CA-C	-10.60	89.33	110.42
1	B	3866	GLU	CA-C-N	10.59	140.76	121.70
1	B	3866	GLU	C-N-CA	10.59	140.76	121.70
1	A	3866	GLU	CA-C-N	10.58	140.75	121.70
1	A	3866	GLU	C-N-CA	10.58	140.75	121.70
1	B	2333	GLU	N-CA-C	10.58	122.81	111.28
1	A	2333	GLU	N-CA-C	10.57	122.81	111.28
1	A	1983	LEU	O-C-N	-10.50	111.25	122.07
1	A	3655	ARG	N-CA-C	10.49	125.34	112.54
1	B	1983	LEU	O-C-N	-10.49	111.27	122.07
1	B	3655	ARG	N-CA-C	10.48	125.32	112.54
1	B	3901	PRO	O-C-N	10.44	136.73	122.64
1	A	3901	PRO	O-C-N	10.41	136.69	122.64
1	A	3862	THR	O-C-N	-10.37	108.80	122.59
1	B	3862	THR	O-C-N	-10.36	108.81	122.59
2	T	144	GLY	N-CA-C	10.36	129.20	112.84
1	A	3878	HIS	CA-C-N	-10.32	103.13	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3878	HIS	C-N-CA	-10.32	103.13	121.70
1	B	3878	HIS	CA-C-N	-10.31	103.14	121.70
1	B	3878	HIS	C-N-CA	-10.31	103.14	121.70
1	A	1823	ASP	O-C-N	10.28	136.27	122.59
1	B	1823	ASP	O-C-N	10.27	136.24	122.59
1	B	2485	PHE	CB-CA-C	-10.26	89.99	110.42
1	A	2485	PHE	CB-CA-C	-10.25	90.02	110.42
1	B	2634	ASN	O-C-N	10.23	136.19	122.59
1	A	2634	ASN	O-C-N	10.21	136.17	122.59
1	A	2937	PRO	CB-CA-C	-10.21	94.72	111.56
1	B	2937	PRO	CB-CA-C	-10.21	94.72	111.56
1	B	3739	ASP	CB-CA-C	-10.19	90.74	110.10
1	A	3739	ASP	CB-CA-C	-10.18	90.75	110.10
1	B	1800	THR	CA-C-N	10.18	140.47	122.05
1	B	1800	THR	C-N-CA	10.18	140.47	122.05
1	B	3819	ILE	N-CA-C	10.17	120.99	110.72
1	A	3819	ILE	N-CA-C	10.17	120.99	110.72
1	B	2447	LYS	N-CA-C	-10.16	96.32	110.35
1	A	1800	THR	CA-C-N	10.14	140.41	122.05
1	A	1800	THR	C-N-CA	10.14	140.41	122.05
1	B	3991	THR	CA-C-N	-10.11	106.61	120.46
1	B	3991	THR	C-N-CA	-10.11	106.61	120.46
1	A	3991	THR	CA-C-N	-10.11	106.61	120.46
1	A	3991	THR	C-N-CA	-10.11	106.61	120.46
1	A	1478	SER	N-CA-C	-10.04	96.21	111.56
1	B	3425	LYS	O-C-N	-10.03	108.43	121.97
1	A	3425	LYS	O-C-N	-10.03	108.43	121.97
1	B	1478	SER	N-CA-C	-10.02	96.23	111.56
1	B	2689	ILE	N-CA-C	10.02	130.18	109.34
1	A	2689	ILE	N-CA-C	10.00	130.15	109.34
1	A	1816	VAL	CA-C-N	9.92	139.82	121.97
1	A	1816	VAL	C-N-CA	9.92	139.82	121.97
1	B	1816	VAL	CA-C-N	9.91	139.81	121.97
1	B	1816	VAL	C-N-CA	9.91	139.81	121.97
1	A	3898	GLU	O-C-N	9.90	134.98	123.29
1	B	3898	GLU	O-C-N	9.88	134.94	123.29
1	A	2940	PHE	CA-C-N	9.87	139.47	121.70
1	A	2940	PHE	C-N-CA	9.87	139.47	121.70
1	B	2940	PHE	CA-C-N	9.87	139.47	121.70
1	B	2940	PHE	C-N-CA	9.87	139.47	121.70
1	B	2523	TRP	O-C-N	-9.84	109.50	122.59
1	A	2523	TRP	O-C-N	-9.83	109.51	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2942	ASP	N-CA-C	9.76	131.60	110.80
1	A	4015	PHE	N-CA-C	-9.76	99.52	111.33
1	B	2942	ASP	N-CA-C	9.76	131.60	110.80
1	B	4015	PHE	N-CA-C	-9.74	99.55	111.33
1	B	1962	SER	CA-C-N	9.73	142.75	122.41
1	B	1962	SER	C-N-CA	9.73	142.75	122.41
1	A	1962	SER	CA-C-N	9.73	142.74	122.41
1	A	1962	SER	C-N-CA	9.73	142.74	122.41
1	A	3421	TYR	N-CA-CB	-9.71	86.78	111.04
1	B	3421	TYR	N-CA-CB	-9.70	86.79	111.04
1	A	2006	LEU	CA-C-N	-9.70	102.41	121.41
1	A	2006	LEU	C-N-CA	-9.70	102.41	121.41
1	B	2006	LEU	CA-C-N	-9.69	102.42	121.41
1	B	2006	LEU	C-N-CA	-9.69	102.42	121.41
1	B	2607	TYR	N-CA-C	-9.67	100.23	112.90
1	A	2607	TYR	N-CA-C	-9.64	100.27	112.90
1	A	1989	GLU	O-C-N	-9.59	111.85	122.88
1	A	1755	LEU	N-CA-CB	-9.57	94.32	110.49
1	B	1755	LEU	N-CA-CB	-9.56	94.33	110.49
1	B	1989	GLU	O-C-N	-9.55	111.89	122.88
1	B	1957	SER	CA-C-N	9.54	133.41	120.44
1	B	1957	SER	C-N-CA	9.54	133.41	120.44
1	A	1957	SER	CA-C-N	9.52	133.39	120.44
1	A	1957	SER	C-N-CA	9.52	133.39	120.44
1	A	1791	GLY	O-C-N	9.50	132.23	122.54
1	B	1791	GLY	O-C-N	9.49	132.22	122.54
1	A	1477	LYS	CB-CA-C	-9.47	96.37	110.96
1	A	1941	ASP	N-CA-C	9.47	125.68	112.04
1	B	1477	LYS	CB-CA-C	-9.45	96.41	110.96
1	B	1941	ASP	N-CA-C	9.45	125.65	112.04
1	B	1991	GLU	N-CA-C	-9.41	100.41	112.93
1	A	1991	GLU	N-CA-C	-9.39	100.44	112.93
1	A	3435	GLY	CA-C-N	9.35	136.56	120.58
1	A	3435	GLY	C-N-CA	9.35	136.56	120.58
1	B	3435	GLY	CA-C-N	9.34	136.55	120.58
1	B	3435	GLY	C-N-CA	9.34	136.55	120.58
1	B	1826	PHE	CA-C-N	9.32	139.33	121.54
1	B	1826	PHE	C-N-CA	9.32	139.33	121.54
1	B	3679	TYR	N-CA-C	-9.31	100.71	112.90
1	A	1826	PHE	CA-C-N	9.31	139.31	121.54
1	A	1826	PHE	C-N-CA	9.31	139.31	121.54
1	A	3740	THR	CA-C-N	9.30	139.31	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3740	THR	C-N-CA	9.30	139.31	121.54
1	A	3679	TYR	N-CA-C	-9.30	100.72	112.90
1	B	3740	THR	CA-C-N	9.29	139.28	121.54
1	B	3740	THR	C-N-CA	9.29	139.28	121.54
1	B	4062	TRP	N-CA-C	-9.25	101.17	111.07
1	A	4062	TRP	N-CA-C	-9.24	101.18	111.07
1	A	1791	GLY	CA-C-N	-9.22	111.28	120.60
1	A	1791	GLY	C-N-CA	-9.22	111.28	120.60
1	B	1791	GLY	CA-C-N	-9.21	111.30	120.60
1	B	1791	GLY	C-N-CA	-9.21	111.30	120.60
1	A	2616	LEU	N-CA-CB	-9.20	94.85	110.50
1	B	2616	LEU	N-CA-CB	-9.19	94.88	110.50
1	A	1577	ASP	CA-C-N	9.19	135.91	122.86
1	A	1577	ASP	C-N-CA	9.19	135.91	122.86
1	A	1823	ASP	CA-C-N	-9.17	104.02	121.54
1	A	1823	ASP	C-N-CA	-9.17	104.02	121.54
1	B	1577	ASP	CA-C-N	9.16	135.87	122.86
1	B	1577	ASP	C-N-CA	9.16	135.87	122.86
1	B	1823	ASP	CA-C-N	-9.16	104.05	121.54
1	B	1823	ASP	C-N-CA	-9.16	104.05	121.54
1	A	3989	ILE	O-C-N	9.13	130.73	121.87
1	B	3989	ILE	O-C-N	9.12	130.72	121.87
1	B	2435	SER	O-C-N	-9.11	108.42	123.00
1	A	2435	SER	O-C-N	-9.09	108.46	123.00
1	A	2200	ASP	N-CA-C	-9.08	101.33	111.14
1	B	2638	ARG	O-C-N	-9.08	106.98	121.23
1	A	2447	LYS	N-CA-C	-9.07	96.31	110.36
1	B	2200	ASP	N-CA-C	-9.06	101.35	111.14
1	A	1918	GLU	O-C-N	9.04	134.40	123.36
1	A	2190	PHE	N-CA-C	9.03	130.04	110.80
1	A	2638	ARG	O-C-N	-9.03	107.06	121.23
1	B	1918	GLU	O-C-N	9.03	134.38	123.36
1	B	2190	PHE	N-CA-C	9.02	130.00	110.80
1	A	2689	ILE	CA-C-N	9.00	141.03	122.04
1	A	2689	ILE	C-N-CA	9.00	141.03	122.04
1	B	2689	ILE	CA-C-N	9.00	141.03	122.04
1	B	2689	ILE	C-N-CA	9.00	141.03	122.04
1	B	1849	GLU	O-C-N	8.99	137.38	123.00
1	A	1849	GLU	O-C-N	8.98	137.37	123.00
1	A	3408	LEU	N-CA-C	8.97	124.22	113.28
1	B	1826	PHE	O-C-N	-8.97	112.41	122.72
1	A	1826	PHE	O-C-N	-8.96	112.42	122.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1828	TYR	N-CA-CB	-8.95	89.70	110.83
1	B	3477	VAL	CB-CA-C	8.95	125.97	111.29
1	B	2012	LEU	CA-C-N	8.95	132.15	120.60
1	B	2012	LEU	C-N-CA	8.95	132.15	120.60
1	A	2012	LEU	CA-C-N	8.95	132.14	120.60
1	A	2012	LEU	C-N-CA	8.95	132.14	120.60
1	A	1828	TYR	N-CA-CB	-8.94	89.73	110.83
1	A	3477	VAL	CB-CA-C	8.94	125.95	111.29
1	B	3408	LEU	N-CA-C	8.92	124.17	113.28
1	A	2774	ALA	O-C-N	-8.91	111.74	123.14
1	A	1825	SER	CB-CA-C	-8.91	92.70	110.42
1	B	3865	ALA	CB-CA-C	8.90	128.14	110.42
1	A	3865	ALA	CB-CA-C	8.90	128.13	110.42
1	A	4034	LEU	CA-C-N	-8.90	104.54	121.54
1	A	4034	LEU	C-N-CA	-8.90	104.54	121.54
1	B	1825	SER	CB-CA-C	-8.90	92.71	110.42
1	B	2774	ALA	O-C-N	-8.90	111.75	123.14
1	B	4034	LEU	CA-C-N	-8.89	104.55	121.54
1	B	4034	LEU	C-N-CA	-8.89	104.55	121.54
1	A	2445	PHE	N-CA-C	8.85	129.64	110.80
1	B	2445	PHE	N-CA-C	8.84	129.63	110.80
1	B	2302	PHE	O-C-N	-8.84	110.84	122.59
1	A	3500	ASP	CA-C-N	-8.83	108.81	119.84
1	A	3500	ASP	C-N-CA	-8.83	108.81	119.84
1	A	2302	PHE	O-C-N	-8.82	110.86	122.59
1	A	2002	ILE	CA-C-N	8.81	137.56	121.70
1	A	2002	ILE	C-N-CA	8.81	137.56	121.70
1	A	2936	VAL	CA-C-N	8.81	130.85	119.84
1	A	2936	VAL	C-N-CA	8.81	130.85	119.84
1	B	3500	ASP	CA-C-N	-8.80	108.84	119.84
1	B	3500	ASP	C-N-CA	-8.80	108.84	119.84
2	S	31	LEU	CA-C-N	8.79	135.90	123.07
2	S	31	LEU	C-N-CA	8.79	135.90	123.07
1	B	2002	ILE	CA-C-N	8.78	137.51	121.70
1	B	2002	ILE	C-N-CA	8.78	137.51	121.70
1	B	2936	VAL	CA-C-N	8.76	130.79	119.84
1	B	2936	VAL	C-N-CA	8.76	130.79	119.84
1	B	4012	ALA	N-CA-C	-8.74	101.76	111.28
1	A	3359	LYS	CA-C-N	8.73	137.42	121.70
1	A	3359	LYS	C-N-CA	8.73	137.42	121.70
1	A	4012	ALA	N-CA-C	-8.73	101.76	111.28
1	B	1812	ASN	O-C-N	-8.72	112.20	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2774	ALA	CA-C-N	-8.72	106.01	121.70
1	A	2774	ALA	C-N-CA	-8.72	106.01	121.70
1	B	3359	LYS	CA-C-N	8.71	137.38	121.70
1	B	3359	LYS	C-N-CA	8.71	137.38	121.70
1	B	2774	ALA	CA-C-N	-8.71	106.02	121.70
1	B	2774	ALA	C-N-CA	-8.71	106.02	121.70
1	A	1917	ARG	O-C-N	-8.70	111.03	122.59
1	B	1917	ARG	O-C-N	-8.69	111.03	122.59
1	A	1812	ASN	O-C-N	-8.69	112.25	122.15
1	A	2616	LEU	CA-C-N	-8.67	104.97	121.54
1	A	2616	LEU	C-N-CA	-8.67	104.97	121.54
1	B	2616	LEU	CA-C-N	-8.67	104.98	121.54
1	B	2616	LEU	C-N-CA	-8.67	104.98	121.54
1	A	3667	ALA	O-C-N	8.67	136.87	123.00
1	B	2308	LYS	CA-C-N	8.65	133.88	119.35
1	B	2308	LYS	C-N-CA	8.65	133.88	119.35
1	B	3667	ALA	O-C-N	8.64	136.82	123.00
1	A	2308	LYS	CA-C-N	8.63	133.85	119.35
1	A	2308	LYS	C-N-CA	8.63	133.85	119.35
1	A	3611	PHE	N-CA-C	-8.59	102.38	113.12
1	B	3611	PHE	N-CA-C	-8.58	102.39	113.12
1	A	3654	LYS	N-CA-C	-8.58	100.81	111.11
1	A	1892	THR	CA-C-N	-8.58	107.40	122.07
1	A	1892	THR	C-N-CA	-8.58	107.40	122.07
1	A	3990	ALA	CA-C-O	8.57	129.53	120.70
1	B	1892	THR	CA-C-N	-8.57	107.41	122.07
1	B	1892	THR	C-N-CA	-8.57	107.41	122.07
1	B	3654	LYS	N-CA-C	-8.57	100.82	111.11
1	B	3990	ALA	CA-C-O	8.54	129.50	120.70
1	B	2161	GLU	CB-CA-C	-8.52	93.47	110.42
1	A	4003	ASP	O-C-N	8.52	134.46	122.36
1	B	4003	ASP	O-C-N	8.51	134.44	122.36
1	A	2161	GLU	CB-CA-C	-8.50	93.50	110.42
1	B	1802	LYS	CA-C-N	8.50	134.91	120.72
1	B	1802	LYS	C-N-CA	8.50	134.91	120.72
1	A	3504	ASP	O-C-N	8.50	133.89	122.59
1	A	1802	LYS	CA-C-N	8.49	134.91	120.72
1	A	1802	LYS	C-N-CA	8.49	134.91	120.72
1	B	2775	TRP	O-C-N	8.47	136.56	123.00
1	A	2161	GLU	O-C-N	-8.47	111.32	122.59
1	B	2161	GLU	O-C-N	-8.46	111.33	122.59
1	A	2775	TRP	O-C-N	8.45	136.51	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	3504	ASP	O-C-N	8.45	133.82	122.59
1	B	2304	ASN	N-CA-C	8.43	128.75	110.80
1	B	2541	PRO	O-C-N	8.43	134.02	122.64
1	A	2304	ASN	N-CA-C	8.43	128.75	110.80
1	A	2541	PRO	O-C-N	8.43	134.01	122.64
1	B	2732	MET	O-C-N	8.39	133.74	122.59
1	A	2732	MET	O-C-N	8.38	133.73	122.59
1	B	1957	SER	O-C-N	8.35	130.97	122.12
1	A	2242	SER	N-CA-C	8.33	122.56	109.81
1	A	1957	SER	O-C-N	8.33	130.95	122.12
1	B	2242	SER	N-CA-C	8.32	122.55	109.81
1	A	2169	VAL	CB-CA-C	-8.31	97.66	111.29
1	A	3420	ASN	N-CA-C	-8.30	93.12	110.80
1	B	3420	ASN	N-CA-C	-8.30	93.12	110.80
1	B	2169	VAL	CB-CA-C	-8.30	97.68	111.29
1	A	1792	GLY	N-CA-C	8.29	123.98	112.37
1	B	1792	GLY	N-CA-C	8.28	123.96	112.37
1	A	1635	ASP	N-CA-C	-8.28	87.83	111.00
1	A	2540	ASP	CA-C-N	8.28	130.19	119.84
1	A	2540	ASP	C-N-CA	8.28	130.19	119.84
1	B	1635	ASP	N-CA-C	-8.28	87.83	111.00
1	B	2540	ASP	CA-C-N	8.27	130.18	119.84
1	B	2540	ASP	C-N-CA	8.27	130.18	119.84
1	B	3755	SER	N-CA-C	-8.24	93.24	110.80
1	A	3356	PHE	CA-C-N	-8.23	106.88	121.70
1	A	3356	PHE	C-N-CA	-8.23	106.88	121.70
1	A	3755	SER	N-CA-C	-8.23	93.26	110.80
1	B	3356	PHE	CA-C-N	-8.23	106.88	121.70
1	B	3356	PHE	C-N-CA	-8.23	106.88	121.70
1	A	3989	ILE	CA-C-N	8.23	131.63	120.44
1	A	3989	ILE	C-N-CA	8.23	131.63	120.44
1	A	4035	GLN	CA-C-N	-8.21	106.91	121.70
1	A	4035	GLN	C-N-CA	-8.21	106.91	121.70
1	B	1989	GLU	N-CA-C	8.21	119.56	108.23
1	B	3989	ILE	CA-C-N	8.21	131.60	120.44
1	B	3989	ILE	C-N-CA	8.21	131.60	120.44
1	B	4035	GLN	CA-C-N	-8.21	106.93	121.70
1	B	4035	GLN	C-N-CA	-8.21	106.93	121.70
1	A	1989	GLU	N-CA-C	8.20	119.55	108.23
1	A	2616	LEU	O-C-N	-8.19	109.89	123.00
1	A	2551	THR	CA-C-N	8.19	134.40	120.72
1	A	2551	THR	C-N-CA	8.19	134.40	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1873	GLN	CA-C-O	-8.19	108.80	120.51
1	B	2551	THR	CA-C-N	8.18	134.38	120.72
1	B	2551	THR	C-N-CA	8.18	134.38	120.72
1	B	2616	LEU	O-C-N	-8.18	109.91	123.00
1	A	2373	SER	N-CA-CB	8.17	124.38	110.50
1	B	2103	VAL	CA-C-N	8.17	136.67	121.97
1	B	2103	VAL	C-N-CA	8.17	136.67	121.97
1	B	2373	SER	N-CA-CB	8.17	124.38	110.50
1	A	2103	VAL	CA-C-N	8.16	136.66	121.97
1	A	2103	VAL	C-N-CA	8.16	136.66	121.97
1	A	1873	GLN	CA-C-O	-8.16	108.84	120.51
1	B	2579	PHE	CA-C-N	-8.11	106.05	121.54
1	B	2579	PHE	C-N-CA	-8.11	106.05	121.54
1	B	2118	MET	O-C-N	-8.11	111.81	122.59
1	A	2118	MET	O-C-N	-8.10	111.81	122.59
1	A	2579	PHE	CA-C-N	-8.10	106.08	121.54
1	A	2579	PHE	C-N-CA	-8.10	106.08	121.54
1	B	2407	LEU	CA-C-N	8.06	131.73	120.29
1	B	2407	LEU	C-N-CA	8.06	131.73	120.29
1	A	2407	LEU	CA-C-N	8.04	131.70	120.29
1	A	2407	LEU	C-N-CA	8.04	131.70	120.29
1	A	1948	LYS	N-CA-C	8.03	120.11	111.36
1	B	1948	LYS	N-CA-C	8.01	120.09	111.36
1	B	3608	PHE	N-CA-C	-7.98	101.83	113.16
1	A	3608	PHE	N-CA-C	-7.97	101.84	113.16
1	B	3433	GLU	CA-C-N	7.97	132.78	120.75
1	B	3433	GLU	C-N-CA	7.97	132.78	120.75
1	A	3710	ILE	CB-CA-C	7.97	124.35	111.29
1	B	3710	ILE	CB-CA-C	7.96	124.34	111.29
1	A	3433	GLU	CA-C-N	7.95	132.76	120.75
1	A	3433	GLU	C-N-CA	7.95	132.76	120.75
1	A	4004	LEU	O-C-N	7.95	131.21	122.15
1	A	2347	GLY	N-CA-C	7.94	126.28	115.32
1	B	2347	GLY	N-CA-C	7.94	126.28	115.32
2	T	62	VAL	N-CA-C	-7.94	95.58	106.85
1	B	4004	LEU	O-C-N	7.93	131.19	122.15
1	A	2345	TYR	CB-CA-C	-7.91	94.51	111.11
1	B	1922	LYS	CB-CA-C	7.91	126.15	110.42
1	B	2190	PHE	CB-CA-C	-7.90	94.69	110.42
1	A	1922	LYS	CB-CA-C	7.90	126.14	110.42
1	B	2345	TYR	CB-CA-C	-7.90	94.53	111.11
1	A	2190	PHE	CB-CA-C	-7.89	94.71	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1479	LEU	CA-C-N	7.89	131.17	120.44
1	B	1479	LEU	C-N-CA	7.89	131.17	120.44
1	A	1479	LEU	CA-C-N	7.89	131.17	120.44
1	A	1479	LEU	C-N-CA	7.89	131.17	120.44
1	A	2407	LEU	O-C-N	-7.89	114.05	122.96
1	A	2689	ILE	N-CA-CB	-7.88	98.22	111.23
1	B	2689	ILE	N-CA-CB	-7.88	98.22	111.23
1	B	2407	LEU	O-C-N	-7.86	114.08	122.96
1	A	2207	ILE	CA-C-O	-7.86	112.52	120.85
1	A	1961	SER	N-CA-C	7.85	132.99	111.00
1	B	1961	SER	N-CA-C	7.84	132.95	111.00
1	B	1872	LEU	N-CA-CB	7.83	121.56	110.67
1	A	1872	LEU	N-CA-CB	7.83	121.56	110.67
1	B	2207	ILE	CA-C-O	-7.83	112.55	120.85
1	B	3637	GLN	O-C-N	-7.81	113.07	122.05
1	A	3995	GLY	N-CA-C	-7.80	104.01	113.99
1	A	3637	GLN	O-C-N	-7.79	113.09	122.05
1	A	2578	ILE	CA-C-N	7.78	138.34	122.55
1	A	2578	ILE	C-N-CA	7.78	138.34	122.55
1	B	2578	ILE	CA-C-N	7.77	138.33	122.55
1	B	2578	ILE	C-N-CA	7.77	138.33	122.55
1	B	3995	GLY	N-CA-C	-7.77	104.04	113.99
1	B	2607	TYR	CA-C-N	7.77	134.59	122.78
1	B	2607	TYR	C-N-CA	7.77	134.59	122.78
1	A	3899	ASP	N-CA-C	7.76	119.48	108.00
1	A	2607	TYR	CA-C-N	7.76	134.57	122.78
1	A	2607	TYR	C-N-CA	7.76	134.57	122.78
1	A	2065	LYS	O-C-N	-7.75	113.33	122.95
1	B	3899	ASP	N-CA-C	7.75	119.47	108.00
1	B	2065	LYS	O-C-N	-7.74	113.35	122.95
1	B	4005	GLU	CA-C-N	-7.73	109.45	120.42
1	B	4005	GLU	C-N-CA	-7.73	109.45	120.42
1	A	4005	GLU	CA-C-N	-7.72	109.45	120.42
1	A	4005	GLU	C-N-CA	-7.72	109.45	120.42
1	B	2641	LEU	N-CA-CB	-7.72	98.74	110.16
1	A	2641	LEU	N-CA-CB	-7.71	98.75	110.16
1	B	2161	GLU	N-CA-C	-7.71	94.38	110.80
1	A	2161	GLU	N-CA-C	-7.70	94.41	110.80
1	A	2938	MET	O-C-N	-7.70	111.43	122.36
1	B	2938	MET	O-C-N	-7.69	111.43	122.36
1	B	2751	GLN	N-CA-C	7.69	125.48	110.56
1	A	1816	VAL	CB-CA-C	-7.68	98.69	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1816	VAL	CB-CA-C	-7.68	98.70	111.29
1	B	1816	VAL	N-CA-CB	-7.68	98.56	111.23
1	A	1816	VAL	N-CA-CB	-7.66	98.59	111.23
1	A	2608	SER	O-C-N	-7.66	113.59	123.32
1	A	3641	PHE	O-C-N	-7.66	112.40	122.59
1	B	3682	VAL	N-CA-C	-7.66	93.42	109.34
1	A	3682	VAL	N-CA-C	-7.65	93.43	109.34
1	B	3641	PHE	O-C-N	-7.65	112.42	122.59
1	B	2608	SER	O-C-N	-7.63	113.62	123.32
1	B	2537	PRO	N-CA-CB	7.63	110.48	103.08
1	A	2537	PRO	N-CA-CB	7.62	110.47	103.08
1	A	1909	PRO	N-CA-CB	7.60	110.40	103.33
1	B	2157	ASP	O-C-N	-7.59	115.29	123.26
1	B	3361	ASP	N-CA-C	-7.59	98.02	109.94
1	A	3361	ASP	N-CA-C	-7.59	98.03	109.94
1	A	2157	ASP	O-C-N	-7.58	115.31	123.26
1	B	2201	HIS	CA-C-O	-7.58	111.72	120.20
1	A	1634	THR	CA-C-N	-7.57	108.08	121.70
1	A	1634	THR	C-N-CA	-7.57	108.08	121.70
1	B	2394	THR	CB-CA-C	-7.56	95.37	110.42
1	B	1909	PRO	N-CA-CB	7.56	110.36	103.33
1	A	2394	THR	CB-CA-C	-7.56	95.38	110.42
1	B	3738	VAL	CB-CA-C	7.55	125.75	111.40
1	A	2201	HIS	CA-C-O	-7.55	111.74	120.20
1	B	1634	THR	CA-C-N	-7.55	108.11	121.70
1	B	1634	THR	C-N-CA	-7.55	108.11	121.70
1	B	2606	ARG	N-CA-C	7.55	126.87	110.80
1	A	2158	LEU	O-C-N	7.54	135.90	121.42
1	A	3738	VAL	CB-CA-C	7.54	125.73	111.40
1	B	1633	GLY	N-CA-C	-7.54	91.43	113.30
1	A	1633	GLY	N-CA-C	-7.54	91.44	113.30
1	B	2158	LEU	O-C-N	7.53	135.88	121.42
1	A	2606	ARG	N-CA-C	7.53	126.83	110.80
1	B	2346	PHE	CA-C-N	-7.52	108.44	122.05
1	B	2346	PHE	C-N-CA	-7.52	108.44	122.05
1	A	2346	PHE	CA-C-N	-7.51	108.46	122.05
1	A	2346	PHE	C-N-CA	-7.51	108.46	122.05
1	B	2431	ALA	CA-C-N	-7.48	108.24	121.70
1	B	2431	ALA	C-N-CA	-7.48	108.24	121.70
1	A	2431	ALA	CA-C-N	-7.46	108.27	121.70
1	A	2431	ALA	C-N-CA	-7.46	108.27	121.70
1	B	1890	PRO	N-CA-CB	7.46	109.81	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	3985	VAL	N-CA-C	7.44	118.21	110.62
1	A	1890	PRO	N-CA-CB	7.44	109.80	103.25
1	A	3985	VAL	N-CA-C	7.43	118.20	110.62
1	A	3901	PRO	N-CA-CB	7.41	111.03	103.25
1	B	2582	VAL	N-CA-C	7.40	131.73	111.00
1	A	2582	VAL	N-CA-C	7.40	131.73	111.00
1	B	3901	PRO	N-CA-CB	7.40	111.02	103.25
2	S	94	LEU	N-CA-C	-7.40	103.15	111.14
1	B	1892	THR	O-C-N	7.37	131.44	121.78
1	B	1990	GLY	O-C-N	-7.37	113.07	122.43
1	B	3915	PHE	CA-C-N	-7.37	110.29	120.38
1	B	3915	PHE	C-N-CA	-7.37	110.29	120.38
1	A	3915	PHE	CA-C-N	-7.36	110.30	120.38
1	A	3915	PHE	C-N-CA	-7.36	110.30	120.38
1	A	1990	GLY	O-C-N	-7.35	113.10	122.43
1	A	1892	THR	O-C-N	7.34	131.40	121.78
1	A	2104	ILE	O-C-N	7.32	131.72	122.57
1	B	2104	ILE	O-C-N	7.32	131.72	122.57
1	A	2123	LEU	O-C-N	7.30	131.74	123.05
1	B	2123	LEU	O-C-N	7.30	131.74	123.05
1	A	2447	LYS	CA-C-N	7.30	135.48	121.54
1	A	2447	LYS	C-N-CA	7.30	135.48	121.54
1	B	2541	PRO	CB-CA-C	-7.29	99.53	111.56
1	A	2637	PRO	O-C-N	-7.28	112.82	122.64
1	B	2447	LYS	CA-C-N	7.28	135.44	121.54
1	B	2447	LYS	C-N-CA	7.28	135.44	121.54
1	A	2541	PRO	CB-CA-C	-7.27	99.56	111.56
1	B	2637	PRO	O-C-N	-7.27	112.83	122.64
1	B	1989	GLU	CB-CA-C	-7.26	98.91	113.80
1	A	1989	GLU	CB-CA-C	-7.24	98.95	113.80
1	B	1797	PRO	N-CA-CB	7.24	110.19	103.39
1	B	2303	GLN	CB-CA-C	7.22	127.05	117.23
2	T	15	PRO	N-CA-CB	7.21	110.83	103.25
1	B	3359	LYS	O-C-N	7.21	131.65	122.28
1	A	1797	PRO	N-CA-CB	7.21	110.16	103.39
1	A	2303	GLN	CB-CA-C	7.21	127.03	117.23
1	A	3876	THR	O-C-N	-7.21	114.89	123.03
1	A	3359	LYS	O-C-N	7.20	131.65	122.28
1	A	2004	PRO	N-CA-CB	7.20	110.81	103.25
1	B	1827	ASP	CA-C-N	-7.20	101.79	122.15
1	B	1827	ASP	C-N-CA	-7.20	101.79	122.15
1	A	2006	LEU	CB-CA-C	-7.19	98.00	110.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2376	PRO	N-CA-CB	7.19	110.80	103.25
1	B	3876	THR	O-C-N	-7.19	114.90	123.03
1	B	2006	LEU	CB-CA-C	-7.19	98.01	110.45
1	A	2633	ILE	CA-C-N	7.19	135.27	121.54
1	A	2633	ILE	C-N-CA	7.19	135.27	121.54
1	B	2004	PRO	N-CA-CB	7.19	110.80	103.25
1	A	1827	ASP	CA-C-N	-7.18	101.82	122.15
1	A	1827	ASP	C-N-CA	-7.18	101.82	122.15
1	A	2119	LEU	CB-CA-C	-7.17	96.14	110.42
1	B	2633	ILE	CA-C-N	7.17	135.23	121.54
1	B	2633	ILE	C-N-CA	7.17	135.23	121.54
1	B	2119	LEU	CB-CA-C	-7.17	96.16	110.42
1	B	2376	PRO	N-CA-CB	7.16	110.77	103.25
1	A	2682	PRO	N-CA-CB	7.14	110.75	103.25
1	B	2682	PRO	N-CA-CB	7.14	110.75	103.25
1	A	2052	GLU	N-CA-C	7.12	119.65	111.11
2	T	2	PRO	N-CA-CB	7.12	110.08	103.39
1	A	1635	ASP	CA-C-N	-7.11	108.90	121.70
1	A	1635	ASP	C-N-CA	-7.11	108.90	121.70
1	B	2052	GLU	N-CA-C	7.10	119.63	111.11
1	A	4035	GLN	O-C-N	-7.10	113.14	122.59
1	B	1635	ASP	CA-C-N	-7.10	108.92	121.70
1	B	1635	ASP	C-N-CA	-7.10	108.92	121.70
1	B	4035	GLN	O-C-N	-7.10	113.15	122.59
1	A	1818	VAL	N-CA-CB	-7.09	95.67	110.64
1	B	1818	VAL	N-CA-CB	-7.09	95.67	110.64
1	A	4032	PRO	N-CA-CB	7.09	110.40	102.60
1	B	2160	PRO	N-CA-CB	7.09	110.69	103.25
2	T	52	PRO	N-CA-CB	7.09	110.69	103.25
1	A	2160	PRO	N-CA-CB	7.08	110.68	103.25
1	B	4032	PRO	N-CA-CB	7.08	110.38	102.60
2	T	106	SER	N-CA-C	7.07	119.85	111.71
1	B	2784	PRO	N-CA-CB	7.07	110.67	103.25
1	B	1872	LEU	CA-C-O	-7.06	111.41	118.97
1	A	1985	SER	CA-C-N	-7.06	108.05	121.54
1	A	1985	SER	C-N-CA	-7.06	108.05	121.54
1	B	1985	SER	CA-C-N	-7.06	108.06	121.54
1	B	1985	SER	C-N-CA	-7.06	108.06	121.54
1	A	2784	PRO	N-CA-CB	7.05	110.65	103.25
1	A	3754	LYS	O-C-N	7.04	131.95	122.59
1	A	2523	TRP	N-CA-C	-7.04	95.81	110.80
1	A	2757	MET	CA-C-N	7.04	134.99	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2757	MET	C-N-CA	7.04	134.99	121.54
1	B	2523	TRP	N-CA-C	-7.04	95.82	110.80
1	B	1812	ASN	CA-C-N	7.03	131.44	120.89
1	B	1812	ASN	C-N-CA	7.03	131.44	120.89
1	A	1872	LEU	CA-C-O	-7.03	111.45	118.97
1	A	2937	PRO	N-CA-CB	7.03	110.63	103.25
1	A	3993	VAL	N-CA-C	7.02	117.78	110.62
1	B	2757	MET	CA-C-N	7.02	134.95	121.54
1	B	2757	MET	C-N-CA	7.02	134.95	121.54
1	A	1812	ASN	CA-C-N	7.02	131.42	120.89
1	A	1812	ASN	C-N-CA	7.02	131.42	120.89
1	B	3754	LYS	O-C-N	7.02	131.92	122.59
1	B	2206	THR	CA-C-O	7.02	128.03	120.10
1	A	3407	LEU	CB-CA-C	-7.01	96.46	110.42
1	B	3407	LEU	CB-CA-C	-7.01	96.47	110.42
1	B	2937	PRO	N-CA-CB	7.01	110.61	103.25
1	A	2206	THR	CA-C-O	7.00	128.01	120.10
1	A	1878	HIS	N-CA-C	7.00	120.82	111.30
1	B	3899	ASP	O-C-N	-7.00	107.97	121.42
1	A	2562	PRO	N-CA-CB	7.00	110.30	102.60
1	B	2562	PRO	N-CA-CB	7.00	110.30	102.60
1	B	3993	VAL	N-CA-C	7.00	117.76	110.62
1	B	2442	GLY	N-CA-C	7.00	129.76	113.18
1	A	2442	GLY	N-CA-C	6.99	129.76	113.18
1	A	3899	ASP	O-C-N	-6.99	107.99	121.42
1	B	1878	HIS	N-CA-C	6.99	120.80	111.30
1	B	1632	ASP	N-CA-C	6.98	125.67	110.80
1	B	2157	ASP	CA-C-N	6.98	136.76	122.04
1	B	2157	ASP	C-N-CA	6.98	136.76	122.04
1	A	1632	ASP	N-CA-C	6.97	125.65	110.80
1	B	3887	PRO	N-CA-CB	6.97	110.20	103.51
1	B	3420	ASN	CB-CA-C	-6.96	96.56	110.42
1	A	3499	CYS	CA-C-N	-6.96	104.81	121.80
1	A	3499	CYS	C-N-CA	-6.96	104.81	121.80
1	A	2373	SER	N-CA-C	-6.96	91.51	111.00
1	B	3755	SER	CB-CA-C	6.96	124.27	110.42
1	A	3420	ASN	CB-CA-C	-6.96	96.58	110.42
1	A	3887	PRO	N-CA-CB	6.96	110.19	103.51
1	A	2157	ASP	CA-C-N	6.95	136.70	122.04
1	A	2157	ASP	C-N-CA	6.95	136.70	122.04
1	B	2373	SER	N-CA-C	-6.95	91.54	111.00
1	B	3499	CYS	CA-C-N	-6.94	104.86	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	3499	CYS	C-N-CA	-6.94	104.86	121.80
1	A	3989	ILE	CA-C-O	-6.94	113.74	120.95
1	A	3755	SER	CB-CA-C	6.93	124.20	110.42
1	B	2188	PRO	N-CA-CB	6.92	110.52	103.25
1	A	2185	PRO	N-CA-CB	6.92	110.52	103.25
1	B	2185	PRO	N-CA-CB	6.92	110.51	103.25
1	B	3989	ILE	CA-C-O	-6.92	113.76	120.95
1	A	1470	PRO	N-CA-CB	6.91	110.50	103.25
1	B	1470	PRO	N-CA-CB	6.91	110.50	103.25
1	B	3834	ILE	N-CA-C	-6.91	105.61	112.17
1	B	2393	PRO	N-CA-CB	6.91	110.50	103.25
1	A	3834	ILE	N-CA-C	-6.90	105.61	112.17
1	A	3876	THR	CA-C-N	6.88	134.00	121.06
1	A	3876	THR	C-N-CA	6.88	134.00	121.06
1	A	2393	PRO	N-CA-CB	6.88	110.47	103.25
1	A	4066	PRO	N-CA-CB	6.88	110.47	103.25
1	B	2938	MET	CA-C-N	-6.88	110.07	121.97
1	B	2938	MET	C-N-CA	-6.88	110.07	121.97
1	A	2938	MET	CA-C-N	-6.87	110.08	121.97
1	A	2938	MET	C-N-CA	-6.87	110.08	121.97
1	A	2751	GLN	N-CA-C	6.87	125.43	110.80
1	B	3876	THR	CA-C-N	6.87	133.97	121.06
1	B	3876	THR	C-N-CA	6.87	133.97	121.06
1	A	2188	PRO	N-CA-CB	6.86	110.46	103.25
1	B	2108	VAL	CA-C-N	6.86	131.99	122.79
1	B	2108	VAL	C-N-CA	6.86	131.99	122.79
1	A	2108	VAL	CA-C-N	6.85	131.97	122.79
1	A	2108	VAL	C-N-CA	6.85	131.97	122.79
1	B	4066	PRO	N-CA-CB	6.85	110.44	103.25
1	B	2541	PRO	N-CA-CB	6.85	110.44	103.25
1	B	2204	PRO	N-CA-CB	6.85	110.44	103.25
1	B	3685	GLN	N-CA-C	6.85	125.38	110.80
1	B	2731	PRO	N-CA-CB	6.84	110.53	103.00
1	A	2731	PRO	N-CA-CB	6.84	110.53	103.00
1	B	2894	PRO	N-CA-CB	6.84	110.43	103.25
1	A	1887	PRO	N-CA-CB	6.84	110.43	103.25
1	A	2541	PRO	N-CA-CB	6.84	110.43	103.25
1	B	2637	PRO	N-CA-CB	6.84	110.43	103.25
1	B	3460	PRO	N-CA-CB	6.83	110.43	103.25
1	A	3685	GLN	N-CA-C	6.83	125.35	110.80
1	A	3460	PRO	N-CA-CB	6.82	110.41	103.25
1	A	2204	PRO	N-CA-CB	6.82	110.41	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2201	HIS	N-CA-CB	-6.82	99.37	110.14
1	A	2637	PRO	N-CA-CB	6.82	110.41	103.25
1	A	2894	PRO	N-CA-CB	6.80	110.39	103.25
1	A	4030	PRO	N-CA-CB	6.80	110.39	103.25
1	B	2201	HIS	N-CA-CB	-6.80	99.40	110.14
1	B	1887	PRO	N-CA-CB	6.79	110.39	103.25
1	B	2760	GLY	CA-C-N	6.79	134.51	121.54
1	B	2760	GLY	C-N-CA	6.79	134.51	121.54
1	B	4030	PRO	N-CA-CB	6.79	110.38	103.25
1	B	3755	SER	CA-C-N	6.78	134.49	121.54
1	B	3755	SER	C-N-CA	6.78	134.49	121.54
1	A	2760	GLY	CA-C-N	6.78	134.49	121.54
1	A	2760	GLY	C-N-CA	6.78	134.49	121.54
1	A	2388	PRO	N-CA-CB	6.77	110.36	103.25
1	A	3755	SER	CA-C-N	6.77	134.47	121.54
1	A	3755	SER	C-N-CA	6.77	134.47	121.54
1	B	4061	SER	CA-C-N	-6.77	111.64	120.44
1	B	4061	SER	C-N-CA	-6.77	111.64	120.44
1	A	3642	TYR	O-C-N	-6.76	112.75	122.36
1	B	2388	PRO	N-CA-CB	6.76	110.35	103.25
1	B	3642	TYR	O-C-N	-6.76	112.76	122.36
1	B	3382	CYS	O-C-N	-6.76	112.19	123.00
1	A	2308	LYS	O-C-N	-6.76	115.27	121.89
1	A	3382	CYS	O-C-N	-6.76	112.19	123.00
1	B	2654	ARG	O-C-N	6.75	131.77	122.46
1	A	3754	LYS	CA-C-N	-6.75	108.65	121.54
1	A	3754	LYS	C-N-CA	-6.75	108.65	121.54
1	A	2108	VAL	CB-CA-C	6.74	122.35	111.29
1	B	2108	VAL	CB-CA-C	6.74	122.34	111.29
1	B	3754	LYS	CA-C-N	-6.74	108.68	121.54
1	B	3754	LYS	C-N-CA	-6.74	108.68	121.54
1	A	2195	GLU	CA-C-N	-6.73	108.68	121.54
1	A	2195	GLU	C-N-CA	-6.73	108.68	121.54
1	B	2373	SER	O-C-N	-6.73	112.23	123.00
1	A	2373	SER	O-C-N	-6.73	112.24	123.00
1	A	2654	ARG	O-C-N	6.73	131.74	122.46
1	A	3981	PRO	N-CA-CB	6.72	110.39	103.00
1	B	2195	GLU	CA-C-N	-6.72	108.71	121.54
1	B	2195	GLU	C-N-CA	-6.72	108.71	121.54
1	A	4061	SER	CA-C-N	-6.71	111.72	120.44
1	A	4061	SER	C-N-CA	-6.71	111.72	120.44
1	B	2654	ARG	CA-C-N	-6.71	109.89	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2654	ARG	C-N-CA	-6.71	109.89	121.97
1	A	3609	PRO	N-CA-CB	6.70	110.42	103.38
1	B	3609	PRO	N-CA-CB	6.70	110.41	103.38
1	A	2654	ARG	CA-C-N	-6.69	109.92	121.97
1	A	2654	ARG	C-N-CA	-6.69	109.92	121.97
1	B	1825	SER	O-C-N	6.69	131.49	122.59
1	B	3981	PRO	N-CA-CB	6.69	110.36	103.00
1	A	1825	SER	O-C-N	6.67	131.46	122.59
1	A	2240	LYS	N-CA-CB	-6.67	103.33	114.27
1	A	3754	LYS	N-CA-CB	-6.67	99.22	110.49
1	B	2240	LYS	N-CA-CB	-6.67	103.34	114.27
1	B	2938	MET	N-CA-CB	6.67	120.33	110.33
1	A	2938	MET	N-CA-CB	6.66	120.33	110.33
1	A	1430	ASP	CA-C-N	-6.66	107.41	121.80
1	A	1430	ASP	C-N-CA	-6.66	107.41	121.80
1	B	1430	ASP	CA-C-N	-6.66	107.41	121.80
1	B	1430	ASP	C-N-CA	-6.66	107.41	121.80
1	B	2199	LEU	CA-C-O	-6.65	114.11	120.56
1	B	2989	PRO	N-CA-CB	6.65	110.32	103.00
1	B	3754	LYS	N-CA-CB	-6.65	99.25	110.49
1	A	2989	PRO	N-CA-CB	6.65	110.31	103.00
1	B	2957	PRO	N-CA-CB	6.64	110.56	103.52
1	B	2591	PRO	N-CA-CB	6.64	110.56	103.52
1	A	2199	LEU	CA-C-O	-6.63	114.12	120.56
1	B	2308	LYS	O-C-N	-6.63	115.26	121.56
1	A	2957	PRO	N-CA-CB	6.63	110.55	103.52
1	A	2591	PRO	N-CA-CB	6.63	110.54	103.52
1	B	3405	PRO	N-CA-CB	6.63	110.21	103.25
1	A	1816	VAL	O-C-N	-6.62	114.30	122.57
1	A	3405	PRO	N-CA-CB	6.61	110.19	103.25
1	B	1816	VAL	O-C-N	-6.61	114.31	122.57
1	A	2308	LYS	N-CA-C	-6.60	103.47	113.51
1	A	4005	GLU	CA-C-O	6.58	127.53	120.55
1	A	2537	PRO	N-CA-C	6.58	118.73	110.70
1	B	2545	PRO	N-CA-CB	6.57	110.49	103.52
1	A	2545	PRO	N-CA-CB	6.57	110.48	103.52
1	B	2372	CYS	O-C-N	6.57	133.51	123.00
1	A	2372	CYS	O-C-N	6.57	133.50	123.00
1	B	2537	PRO	N-CA-C	6.57	118.71	110.70
1	B	4005	GLU	CA-C-O	6.57	127.51	120.55
1	A	2519	PRO	N-CA-CB	6.56	110.14	103.25
1	A	2872	GLU	N-CA-C	6.56	117.71	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2293	HIS	N-CA-C	-6.56	104.21	111.36
1	A	3815	PRO	N-CA-CB	6.55	110.54	103.33
1	B	3815	PRO	N-CA-CB	6.55	110.54	103.33
1	B	3410	PRO	N-CA-CB	6.55	110.13	103.25
2	T	55	PRO	N-CA-CB	6.55	109.80	102.60
1	B	1850	PHE	O-C-N	6.54	133.47	123.00
1	A	3410	PRO	N-CA-CB	6.54	110.12	103.25
1	B	1503	PRO	N-CA-CB	6.54	110.45	103.52
1	A	1916	PHE	N-CA-C	6.54	126.80	113.20
1	B	2872	GLU	N-CA-C	6.54	117.67	108.00
1	B	1916	PHE	N-CA-C	6.53	126.79	113.20
1	B	2519	PRO	N-CA-CB	6.53	110.11	103.25
1	A	2657	ALA	N-CA-CB	6.52	120.18	110.40
1	A	1850	PHE	O-C-N	6.52	133.43	123.00
1	A	2293	HIS	N-CA-C	-6.51	104.26	111.36
1	B	3853	THR	CB-CA-C	-6.51	99.79	110.85
1	A	3853	THR	CB-CA-C	-6.50	99.80	110.85
1	B	1889	SER	O-C-N	-6.50	115.37	121.35
1	B	2657	ALA	N-CA-CB	6.50	120.15	110.40
1	A	1503	PRO	N-CA-CB	6.49	110.40	103.52
1	A	1889	SER	O-C-N	-6.49	115.38	121.35
1	A	3997	LYS	CA-C-N	6.48	133.64	121.97
1	A	3997	LYS	C-N-CA	6.48	133.64	121.97
1	B	3997	LYS	CA-C-N	6.48	133.63	121.97
1	B	3997	LYS	C-N-CA	6.48	133.63	121.97
1	A	2255	ASP	N-CA-C	6.47	124.58	110.80
1	B	2255	ASP	N-CA-C	6.47	124.58	110.80
1	B	3357	ALA	N-CA-CB	-6.46	100.71	110.40
1	A	3357	ALA	N-CA-CB	-6.45	100.72	110.40
1	A	2946	PRO	N-CA-CB	6.45	110.61	103.26
1	B	2946	PRO	N-CA-CB	6.44	110.60	103.26
1	A	3457	PHE	O-C-N	6.43	133.29	123.00
1	B	2459	HIS	O-C-N	-6.42	114.15	122.37
1	A	2459	HIS	O-C-N	-6.42	114.16	122.37
1	A	4002	LYS	CA-C-N	-6.42	109.72	121.52
1	A	4002	LYS	C-N-CA	-6.42	109.72	121.52
1	B	4002	LYS	CA-C-N	-6.41	109.72	121.52
1	B	4002	LYS	C-N-CA	-6.41	109.72	121.52
1	B	3506	PRO	N-CA-CB	6.41	110.09	103.23
1	A	3431	PHE	O-C-N	6.41	130.69	122.81
1	B	3457	PHE	O-C-N	6.41	133.26	123.00
1	A	1916	PHE	O-C-N	6.40	128.53	122.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1891	HIS	N-CA-C	6.40	118.68	109.14
1	A	1891	HIS	N-CA-C	6.40	118.68	109.14
1	B	2583	PRO	N-CA-CB	6.40	110.47	103.30
1	A	3506	PRO	N-CA-CB	6.39	110.06	103.23
1	B	1916	PHE	O-C-N	6.38	128.51	122.00
1	B	3431	PHE	O-C-N	6.38	130.66	122.81
1	A	2640	THR	O-C-N	-6.37	114.11	122.59
1	B	2305	LEU	N-CA-C	-6.37	104.04	113.40
2	S	165	ASP	CA-C-N	6.36	126.05	119.82
2	S	165	ASP	C-N-CA	6.36	126.05	119.82
1	A	2583	PRO	N-CA-CB	6.35	110.42	103.30
1	A	1500	ILE	N-CA-C	6.35	117.23	108.84
1	B	1500	ILE	N-CA-C	6.35	117.22	108.84
1	B	3900	ILE	N-CA-CB	-6.34	102.33	111.21
1	A	2305	LEU	N-CA-C	-6.34	104.08	113.40
1	A	3900	ILE	N-CA-CB	-6.34	102.33	111.21
1	B	2640	THR	O-C-N	-6.34	114.16	122.59
1	B	1890	PRO	N-CA-C	6.32	121.14	111.15
1	A	1890	PRO	N-CA-C	6.32	121.14	111.15
1	A	3546	GLU	N-CA-C	6.32	118.25	111.36
1	B	4048	ILE	N-CA-CB	6.32	122.24	111.50
1	A	4048	ILE	N-CA-CB	6.32	122.24	111.50
1	B	3546	GLU	N-CA-C	6.31	118.24	111.36
1	A	2619	PRO	N-CA-CB	6.30	109.97	103.23
1	A	1982	PRO	N-CA-CB	6.30	109.97	103.23
1	A	3356	PHE	O-C-N	-6.29	114.22	122.59
1	A	1921	MET	CA-C-N	-6.29	109.52	121.54
1	A	1921	MET	C-N-CA	-6.29	109.52	121.54
1	B	1921	MET	CA-C-N	-6.29	109.52	121.54
1	B	1921	MET	C-N-CA	-6.29	109.52	121.54
1	B	3425	LYS	CA-C-N	-6.29	109.53	121.54
1	B	3425	LYS	C-N-CA	-6.29	109.53	121.54
1	B	2906	PRO	N-CA-CB	6.28	110.48	103.44
1	B	3356	PHE	O-C-N	-6.28	114.23	122.59
1	B	1982	PRO	N-CA-CB	6.28	109.95	103.23
1	B	2619	PRO	N-CA-CB	6.28	109.95	103.23
1	A	3425	LYS	CA-C-N	-6.27	109.56	121.54
1	A	3425	LYS	C-N-CA	-6.27	109.56	121.54
1	A	2906	PRO	N-CA-CB	6.27	110.46	103.44
1	A	2724	CYS	N-CA-C	6.27	124.15	110.80
1	B	2346	PHE	N-CA-CB	-6.26	99.90	110.49
1	A	2126	ARG	CB-CA-C	-6.26	97.97	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2126	ARG	CB-CA-C	-6.25	97.98	110.42
1	A	2346	PHE	N-CA-CB	-6.24	99.94	110.49
2	S	205	TRP	N-CA-C	6.24	118.08	111.28
1	B	2255	ASP	CB-CA-C	-6.24	98.00	110.42
1	B	3713	GLU	CB-CA-C	-6.24	99.75	114.16
1	B	4025	PRO	N-CA-CB	6.24	110.43	103.44
1	B	2238	ASP	N-CA-C	-6.23	104.48	111.28
1	B	3335	GLY	CA-C-N	-6.23	110.48	121.70
1	B	3335	GLY	C-N-CA	-6.23	110.48	121.70
1	A	2238	ASP	N-CA-C	-6.23	104.49	111.28
1	A	3713	GLU	CB-CA-C	-6.23	99.78	114.16
1	A	4025	PRO	N-CA-CB	6.23	110.41	103.44
1	A	3335	GLY	CA-C-N	-6.22	110.50	121.70
1	A	3335	GLY	C-N-CA	-6.22	110.50	121.70
1	B	2308	LYS	N-CA-C	-6.22	103.51	113.28
1	A	2065	LYS	N-CA-C	-6.22	100.83	110.10
1	B	1988	GLY	CA-C-N	6.22	134.14	121.95
1	B	1988	GLY	C-N-CA	6.22	134.14	121.95
1	B	2065	LYS	N-CA-C	-6.22	100.83	110.10
1	A	2255	ASP	CB-CA-C	-6.22	98.05	110.42
1	A	1988	GLY	CA-C-N	6.21	134.13	121.95
1	A	1988	GLY	C-N-CA	6.21	134.13	121.95
1	B	1495	THR	CA-C-N	6.20	133.38	121.54
1	B	1495	THR	C-N-CA	6.20	133.38	121.54
1	B	1962	SER	O-C-N	-6.20	114.92	122.05
1	A	1495	THR	CA-C-N	6.20	133.38	121.54
1	A	1495	THR	C-N-CA	6.20	133.38	121.54
1	A	1962	SER	O-C-N	-6.19	114.93	122.05
1	A	2201	HIS	CA-C-N	-6.19	110.15	120.68
1	A	2201	HIS	C-N-CA	-6.19	110.15	120.68
1	B	1957	SER	CA-C-O	-6.19	113.99	120.55
1	A	1948	LYS	CA-C-N	6.19	128.36	120.56
1	A	1948	LYS	C-N-CA	6.19	128.36	120.56
1	B	3838	TRP	N-CA-C	6.18	118.98	108.90
1	B	2201	HIS	CA-C-N	-6.18	110.17	120.68
1	B	2201	HIS	C-N-CA	-6.18	110.17	120.68
1	A	1531	ARG	CA-C-N	6.18	132.82	121.70
1	A	1531	ARG	C-N-CA	6.18	132.82	121.70
1	B	1531	ARG	CA-C-N	6.18	132.82	121.70
1	B	1531	ARG	C-N-CA	6.18	132.82	121.70
1	B	2523	TRP	CB-CA-C	6.18	122.72	110.42
1	A	2523	TRP	CB-CA-C	6.18	122.71	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3838	TRP	N-CA-C	6.18	118.97	108.90
1	B	1948	LYS	CA-C-N	6.17	128.34	120.56
1	B	1948	LYS	C-N-CA	6.17	128.34	120.56
1	A	3438	LYS	N-CA-C	-6.16	104.64	111.36
1	B	3438	LYS	N-CA-C	-6.16	104.64	111.36
1	A	2208	THR	O-C-N	6.16	130.23	123.27
1	B	1495	THR	O-C-N	-6.16	117.34	123.62
1	B	2686	LEU	CB-CA-C	6.16	122.67	110.42
1	A	1957	SER	CA-C-O	-6.15	114.03	120.55
1	B	2208	THR	O-C-N	6.15	130.22	123.27
1	A	2686	LEU	CB-CA-C	6.14	122.64	110.42
1	A	1495	THR	O-C-N	-6.14	117.36	123.62
1	A	2896	ASN	CB-CA-C	-6.14	106.73	114.40
1	B	2896	ASN	CB-CA-C	-6.13	106.73	114.40
2	S	11	GLY	N-CA-C	6.13	122.17	111.50
1	A	2420	PRO	N-CA-CB	6.12	109.68	103.25
1	B	1795	PHE	O-C-N	-6.12	116.02	123.30
1	B	2420	PRO	N-CA-CB	6.12	109.67	103.25
1	A	2148	SER	CA-C-N	-6.12	110.68	121.87
1	A	2148	SER	C-N-CA	-6.12	110.68	121.87
1	A	1795	PHE	O-C-N	-6.11	116.02	123.30
1	B	2148	SER	CA-C-N	-6.11	110.68	121.87
1	B	2148	SER	C-N-CA	-6.11	110.68	121.87
1	A	2731	PRO	CA-C-N	-6.10	109.89	121.54
1	A	2731	PRO	C-N-CA	-6.10	109.89	121.54
1	B	2731	PRO	CA-C-N	-6.10	109.89	121.54
1	B	2731	PRO	C-N-CA	-6.10	109.89	121.54
1	B	2281	PHE	CA-C-N	6.09	128.73	120.38
1	B	2281	PHE	C-N-CA	6.09	128.73	120.38
1	B	3753	THR	CB-CA-C	-6.09	98.29	110.42
1	A	2610	GLY	N-CA-C	-6.09	98.74	113.18
1	A	3753	THR	CB-CA-C	-6.09	98.30	110.42
1	B	2610	GLY	N-CA-C	-6.08	98.76	113.18
1	A	4006	VAL	N-CA-C	6.08	116.86	110.72
1	B	1790	TYR	O-C-N	6.08	130.67	122.59
1	A	2281	PHE	CA-C-N	6.07	128.70	120.38
1	A	2281	PHE	C-N-CA	6.07	128.70	120.38
1	B	3643	GLY	O-C-N	-6.07	114.81	122.70
1	A	1790	TYR	O-C-N	6.06	130.65	122.59
1	B	3838	TRP	N-CA-CB	-6.06	100.50	110.68
1	B	4006	VAL	N-CA-C	6.06	116.84	110.72
1	A	3838	TRP	N-CA-CB	-6.06	100.50	110.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3643	GLY	O-C-N	-6.04	114.84	122.70
1	A	1634	THR	N-CA-C	6.04	127.92	111.00
1	B	4007	VAL	CA-C-O	-6.04	113.95	120.47
1	B	1634	THR	N-CA-C	6.03	127.89	111.00
1	B	1400	VAL	N-CA-C	6.03	121.88	109.34
1	A	1400	VAL	N-CA-C	6.02	121.87	109.34
1	B	2943	PHE	N-CA-CB	6.02	121.06	111.66
1	A	4007	VAL	CA-C-O	-6.02	113.97	120.47
1	A	3686	PHE	O-C-N	-6.01	114.59	122.59
1	A	2943	PHE	N-CA-CB	6.01	121.03	111.66
1	B	3686	PHE	O-C-N	-6.01	114.60	122.59
1	B	3991	THR	O-C-N	-5.99	115.77	122.12
1	A	3846	MET	N-CA-C	5.98	118.57	107.99
1	A	3991	THR	O-C-N	-5.97	115.79	122.12
1	B	3846	MET	N-CA-C	5.96	118.55	107.99
2	T	64	LEU	N-CA-C	5.95	118.89	109.50
2	T	112	LYS	N-CA-C	-5.93	105.53	112.89
1	A	3901	PRO	CB-CA-C	5.93	121.34	111.56
1	B	3853	THR	O-C-N	5.92	128.90	122.15
1	B	2512	LYS	N-CA-C	-5.91	99.76	109.40
1	A	2640	THR	CA-C-N	5.91	128.68	120.29
1	A	2640	THR	C-N-CA	5.91	128.68	120.29
1	A	3853	THR	O-C-N	5.91	128.89	122.15
1	B	1821	ASN	N-CA-C	5.91	118.23	108.48
1	A	1821	ASN	N-CA-C	5.91	118.23	108.48
1	B	3901	PRO	CB-CA-C	5.90	121.30	111.56
1	A	2512	LYS	N-CA-C	-5.90	99.79	109.40
1	A	3739	ASP	N-CA-CB	-5.89	100.48	110.50
1	B	2640	THR	CA-C-N	5.89	128.65	120.29
1	B	2640	THR	C-N-CA	5.89	128.65	120.29
1	B	3739	ASP	N-CA-CB	-5.89	100.49	110.50
1	B	3854	TYR	O-C-N	5.88	128.44	122.09
1	A	3854	TYR	O-C-N	5.88	128.44	122.09
1	A	1873	GLN	N-CA-CB	5.83	120.34	110.49
1	A	2191	ARG	N-CA-CB	-5.81	102.39	110.29
1	B	1873	GLN	N-CA-CB	5.81	120.31	110.49
1	B	2191	ARG	N-CA-CB	-5.81	102.39	110.29
1	B	1884	GLU	O-C-N	5.81	131.90	122.20
1	B	2101	VAL	CA-C-N	5.81	131.87	122.29
1	B	2101	VAL	C-N-CA	5.81	131.87	122.29
1	A	2186	ILE	CA-C-N	-5.81	114.40	120.38
1	A	2186	ILE	C-N-CA	-5.81	114.40	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1478	SER	CA-C-N	5.80	129.97	120.63
1	B	1478	SER	C-N-CA	5.80	129.97	120.63
1	A	1884	GLU	O-C-N	5.80	131.89	122.20
1	A	1478	SER	CA-C-N	5.79	129.96	120.63
1	A	1478	SER	C-N-CA	5.79	129.96	120.63
1	B	1754	TYR	CB-CA-C	5.78	121.93	110.42
1	A	1754	TYR	CB-CA-C	5.78	121.93	110.42
1	B	2186	ILE	CA-C-N	-5.78	114.43	120.38
1	B	2186	ILE	C-N-CA	-5.78	114.43	120.38
1	A	1387	GLU	CA-C-N	-5.78	114.96	123.05
1	A	1387	GLU	C-N-CA	-5.78	114.96	123.05
1	A	2101	VAL	CA-C-N	5.78	131.83	122.29
1	A	2101	VAL	C-N-CA	5.78	131.83	122.29
1	B	1387	GLU	CA-C-N	-5.77	114.97	123.05
1	B	1387	GLU	C-N-CA	-5.77	114.97	123.05
1	A	2126	ARG	CA-C-N	5.76	133.23	122.74
1	A	2126	ARG	C-N-CA	5.76	133.23	122.74
1	B	2126	ARG	CA-C-N	5.76	133.22	122.74
1	B	2126	ARG	C-N-CA	5.76	133.22	122.74
1	B	2007	GLY	N-CA-C	-5.76	99.54	113.18
1	B	2580	LYS	O-C-N	-5.75	114.94	122.59
1	A	2007	GLY	N-CA-C	-5.75	99.56	113.18
1	B	3862	THR	CA-C-N	5.74	133.68	123.34
1	B	3862	THR	C-N-CA	5.74	133.68	123.34
1	B	2607	TYR	O-C-N	-5.74	114.21	122.36
1	A	2580	LYS	O-C-N	-5.74	114.96	122.59
1	A	3862	THR	CA-C-N	5.74	133.67	123.34
1	A	3862	THR	C-N-CA	5.74	133.67	123.34
1	B	2515	PHE	N-CA-C	5.74	117.73	110.33
1	B	2130	PHE	O-C-N	-5.73	116.07	122.03
1	A	2607	TYR	O-C-N	-5.72	114.24	122.36
1	B	2632	ALA	CA-C-N	-5.72	111.68	121.97
1	B	2632	ALA	C-N-CA	-5.72	111.68	121.97
1	A	2515	PHE	N-CA-C	5.72	117.71	110.33
1	A	2130	PHE	O-C-N	-5.71	116.09	122.03
1	A	2632	ALA	CA-C-N	-5.70	111.71	121.97
1	A	2632	ALA	C-N-CA	-5.70	111.71	121.97
1	B	2581	LEU	N-CA-C	-5.68	100.90	109.60
1	A	3363	ASN	O-C-N	5.68	130.15	122.59
1	A	2552	ARG	N-CA-C	5.68	119.47	112.54
1	B	2552	ARG	N-CA-C	5.68	119.47	112.54
1	A	1496	THR	O-C-N	5.67	130.14	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	3363	ASN	O-C-N	5.67	130.14	122.59
1	B	2101	VAL	N-CA-CB	5.67	120.46	112.52
1	A	2581	LEU	N-CA-C	-5.67	100.93	109.60
1	B	1496	THR	O-C-N	5.67	130.12	122.59
1	B	4002	LYS	N-CA-C	-5.67	101.42	113.20
1	A	3655	ARG	O-C-N	5.66	130.02	122.43
1	B	2656	PHE	CB-CA-C	-5.66	104.25	113.37
1	A	4002	LYS	N-CA-C	-5.66	101.42	113.20
1	A	2101	VAL	N-CA-CB	5.66	120.44	112.52
1	B	2117	SER	O-C-N	5.66	129.47	123.42
1	B	3655	ARG	O-C-N	5.65	130.00	122.43
1	A	2656	PHE	CB-CA-C	-5.64	104.28	113.37
1	A	2117	SER	O-C-N	5.64	129.46	123.42
1	B	1754	TYR	N-CA-C	5.64	122.81	110.80
1	A	1754	TYR	N-CA-C	5.63	122.79	110.80
1	B	2139	ASP	CA-C-N	5.62	132.28	121.54
1	B	2139	ASP	C-N-CA	5.62	132.28	121.54
1	A	2139	ASP	CA-C-N	5.61	132.26	121.54
1	A	2139	ASP	C-N-CA	5.61	132.26	121.54
1	A	2689	ILE	O-C-N	-5.60	115.57	122.57
1	A	2418	GLY	N-CA-C	5.59	123.74	112.34
1	B	2418	GLY	N-CA-C	5.58	123.73	112.34
1	B	2689	ILE	O-C-N	-5.58	115.60	122.57
1	B	3823	ASN	N-CA-C	5.57	117.35	111.28
1	B	1873	GLN	N-CA-C	-5.57	98.94	110.80
1	A	1873	GLN	N-CA-C	-5.57	98.94	110.80
1	A	3823	ASN	N-CA-C	5.57	117.34	111.28
1	B	2395	ILE	N-CA-C	-5.55	97.79	109.34
1	A	2370	SER	CB-CA-C	5.54	121.45	110.42
1	A	2395	ILE	N-CA-C	-5.54	97.81	109.34
1	B	2370	SER	CB-CA-C	5.54	121.45	110.42
1	A	2396	ASP	CA-C-N	-5.54	110.96	121.54
1	A	2396	ASP	C-N-CA	-5.54	110.96	121.54
1	B	3666	ALA	CA-C-N	5.53	131.65	121.70
1	B	3666	ALA	C-N-CA	5.53	131.65	121.70
1	A	3611	PHE	O-C-N	5.53	130.27	122.20
1	B	2396	ASP	CA-C-N	-5.53	110.99	121.54
1	B	2396	ASP	C-N-CA	-5.53	110.99	121.54
1	B	3478	THR	N-CA-CB	5.53	120.75	110.86
1	A	3478	THR	N-CA-CB	5.52	120.74	110.86
1	A	3478	THR	N-CA-C	-5.50	100.48	108.07
1	B	2124	GLU	CA-C-O	5.50	127.99	119.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3666	ALA	CA-C-N	5.50	131.59	121.70
1	A	3666	ALA	C-N-CA	5.50	131.59	121.70
1	B	3478	THR	N-CA-C	-5.49	100.50	108.07
1	B	2680	TYR	N-CA-C	5.49	118.02	111.71
1	B	3611	PHE	O-C-N	5.48	130.21	122.20
1	A	2124	GLU	CA-C-O	5.48	127.96	119.96
1	B	3854	TYR	CA-C-O	-5.47	115.07	120.70
1	A	2680	TYR	N-CA-C	5.46	117.98	111.71
1	B	2634	ASN	CA-C-N	-5.46	114.96	122.16
1	B	2634	ASN	C-N-CA	-5.46	114.96	122.16
1	A	3854	TYR	CA-C-O	-5.45	115.09	120.70
1	B	2444	ASN	O-C-N	-5.45	116.04	122.58
1	A	2256	SER	N-CA-CB	-5.44	100.24	111.07
1	A	2634	ASN	CA-C-N	-5.44	114.98	122.16
1	A	2634	ASN	C-N-CA	-5.44	114.98	122.16
1	B	2256	SER	N-CA-CB	-5.43	100.26	111.07
1	A	2333	GLU	CA-C-N	-5.43	112.45	120.38
1	A	2333	GLU	C-N-CA	-5.43	112.45	120.38
1	B	2333	GLU	CA-C-N	-5.43	112.45	120.38
1	B	2333	GLU	C-N-CA	-5.43	112.45	120.38
1	A	1922	LYS	N-CA-C	-5.43	99.23	110.80
1	A	1632	ASP	CB-CA-C	-5.43	99.62	110.42
1	B	1632	ASP	CB-CA-C	-5.43	99.62	110.42
1	B	1922	LYS	N-CA-C	-5.42	99.25	110.80
1	A	2444	ASN	O-C-N	-5.41	116.09	122.58
1	A	3816	LEU	N-CA-C	-5.41	106.63	113.23
1	B	3816	LEU	N-CA-C	-5.40	106.64	113.23
2	S	133	GLU	N-CA-C	-5.40	105.29	111.07
1	B	3834	ILE	CA-C-N	-5.39	113.39	122.29
1	B	3834	ILE	C-N-CA	-5.39	113.39	122.29
1	A	3834	ILE	CA-C-N	-5.39	113.39	122.29
1	A	3834	ILE	C-N-CA	-5.39	113.39	122.29
1	B	3714	GLN	N-CA-C	5.39	126.10	111.00
1	B	3433	GLU	O-C-N	-5.39	116.18	122.81
1	A	3433	GLU	O-C-N	-5.38	116.19	122.81
1	B	3855	LEU	O-C-N	-5.38	116.53	122.07
1	A	3714	GLN	N-CA-C	5.38	126.06	111.00
1	A	2121	ALA	N-CA-C	5.38	119.37	111.04
1	B	2121	ALA	N-CA-C	5.36	119.35	111.04
1	A	2897	ASN	N-CA-CB	-5.35	100.96	111.60
1	A	2394	THR	CA-C-N	5.34	131.59	121.97
1	A	2394	THR	C-N-CA	5.34	131.59	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3855	LEU	O-C-N	-5.34	116.57	122.07
1	A	2306	ASP	CB-CA-C	-5.33	110.45	116.63
1	B	2123	LEU	CA-C-N	-5.33	115.72	123.93
1	B	2123	LEU	C-N-CA	-5.33	115.72	123.93
1	B	2306	ASP	CB-CA-C	-5.33	110.45	116.63
1	A	3858	HIS	CA-C-N	-5.32	113.86	120.56
1	A	3858	HIS	C-N-CA	-5.32	113.86	120.56
1	A	2123	LEU	CA-C-N	-5.32	115.74	123.93
1	A	2123	LEU	C-N-CA	-5.32	115.74	123.93
1	B	2394	THR	CA-C-N	5.32	131.54	121.97
1	B	2394	THR	C-N-CA	5.32	131.54	121.97
1	B	2897	ASN	N-CA-CB	-5.31	101.03	111.60
1	B	2419	PRO	N-CA-C	5.31	117.18	110.70
1	B	2081	THR	N-CA-C	5.31	119.68	112.04
2	S	185	ILE	CA-C-N	5.31	126.47	119.84
2	S	185	ILE	C-N-CA	5.31	126.47	119.84
1	A	2342	ILE	N-CA-C	5.30	115.52	110.53
2	S	107	ARG	N-CA-C	-5.30	105.58	111.36
1	B	3858	HIS	CA-C-N	-5.30	113.88	120.56
1	B	3858	HIS	C-N-CA	-5.30	113.88	120.56
1	A	2081	THR	N-CA-C	5.29	119.66	112.04
1	A	3446	PHE	CB-CA-C	-5.29	110.49	116.63
1	B	2342	ILE	N-CA-C	5.29	115.50	110.53
1	B	3446	PHE	CB-CA-C	-5.29	110.49	116.63
1	B	3477	VAL	N-CA-C	-5.27	98.37	109.34
1	A	2776	LEU	N-CA-C	-5.27	106.87	113.72
1	A	2419	PRO	N-CA-C	5.27	117.13	110.70
1	B	2065	LYS	CA-C-N	5.26	131.59	121.54
1	B	2065	LYS	C-N-CA	5.26	131.59	121.54
1	B	3640	TRP	CB-CA-C	-5.26	110.49	116.54
1	A	2065	LYS	CA-C-N	5.26	131.59	121.54
1	A	2065	LYS	C-N-CA	5.26	131.59	121.54
1	A	3640	TRP	CB-CA-C	-5.26	110.49	116.54
1	A	2393	PRO	CA-C-N	-5.26	111.50	121.54
1	A	2393	PRO	C-N-CA	-5.26	111.50	121.54
1	A	3477	VAL	N-CA-C	-5.26	98.41	109.34
1	A	2169	VAL	N-CA-C	5.25	120.26	109.34
1	B	2393	PRO	CA-C-N	-5.25	111.51	121.54
1	B	2393	PRO	C-N-CA	-5.25	111.51	121.54
1	B	2169	VAL	N-CA-C	5.25	120.25	109.34
1	B	2776	LEU	N-CA-C	-5.24	106.90	113.72
1	B	2524	VAL	N-CA-CB	5.24	119.88	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2524	VAL	N-CA-CB	5.24	119.87	111.23
1	B	1645	PHE	CB-CA-C	-5.23	106.97	114.87
1	B	2638	ARG	CB-CA-C	-5.23	110.53	116.54
1	A	2347	GLY	O-C-N	-5.22	115.80	122.43
1	A	3638	PHE	O-C-N	5.21	129.53	122.59
1	B	2347	GLY	O-C-N	-5.21	115.81	122.43
1	A	1645	PHE	CB-CA-C	-5.21	107.01	114.87
1	A	2638	ARG	CB-CA-C	-5.20	110.56	116.54
1	A	1986	GLU	O-C-N	-5.20	115.67	122.59
1	B	3638	PHE	O-C-N	5.20	129.51	122.59
1	B	1986	GLU	O-C-N	-5.20	115.68	122.59
1	A	3538	ASN	N-CA-C	5.19	116.94	111.28
1	A	2945	VAL	CB-CA-C	5.18	120.79	111.36
1	A	3713	GLU	N-CA-C	-5.18	101.96	109.31
1	A	3854	TYR	N-CA-C	-5.18	105.55	111.14
1	B	2945	VAL	CB-CA-C	5.18	120.79	111.36
1	A	4063	LEU	N-CA-C	5.17	117.35	110.53
1	B	3854	TYR	N-CA-C	-5.17	105.56	111.14
1	B	2010	ASP	N-CA-C	5.17	116.99	111.36
1	B	3538	ASN	N-CA-C	5.17	116.91	111.28
1	B	2190	PHE	O-C-N	-5.16	115.72	122.59
1	B	4063	LEU	N-CA-C	5.16	117.34	110.53
1	B	3713	GLU	N-CA-C	-5.15	102.00	109.31
1	B	2811	SER	N-CA-CB	-5.15	104.91	112.78
1	B	4014	VAL	CA-C-N	5.14	127.42	120.38
1	B	4014	VAL	C-N-CA	5.14	127.42	120.38
1	A	2811	SER	N-CA-CB	-5.14	104.92	112.78
1	A	4014	VAL	CA-C-N	5.14	127.42	120.38
1	A	4014	VAL	C-N-CA	5.14	127.42	120.38
1	B	4006	VAL	O-C-N	5.14	127.12	121.83
1	A	1478	SER	N-CA-CB	-5.14	102.13	110.14
1	A	2190	PHE	O-C-N	-5.13	115.76	122.59
1	A	3401	GLN	N-CA-C	5.12	125.35	111.00
1	B	1478	SER	N-CA-CB	-5.12	102.14	110.14
1	B	1872	LEU	CB-CA-C	-5.12	100.46	109.07
1	A	2010	ASP	N-CA-C	5.12	116.94	111.36
1	A	4006	VAL	O-C-N	5.12	127.11	121.83
1	B	2380	LEU	N-CA-CB	-5.12	101.84	110.49
1	A	2380	LEU	N-CA-CB	-5.12	101.85	110.49
1	B	3401	GLN	N-CA-C	5.11	125.32	111.00
1	A	1872	LEU	CB-CA-C	-5.11	100.49	109.07
1	A	2724	CYS	CA-C-N	5.11	130.89	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2724	CYS	C-N-CA	5.11	130.89	121.70
1	A	2209	ARG	O-C-N	-5.09	115.81	122.59
1	B	2577	ALA	CA-C-N	5.09	131.14	121.97
1	B	2577	ALA	C-N-CA	5.09	131.14	121.97
1	B	3901	PRO	N-CA-C	-5.09	101.98	112.47
1	B	2724	CYS	CA-C-N	5.09	130.86	121.70
1	B	2724	CYS	C-N-CA	5.09	130.86	121.70
1	B	3434	GLU	CA-C-N	5.09	130.17	121.07
1	B	3434	GLU	C-N-CA	5.09	130.17	121.07
1	A	2937	PRO	CA-C-N	-5.08	112.17	121.52
1	A	2937	PRO	C-N-CA	-5.08	112.17	121.52
1	A	3514	ARG	CA-C-N	-5.08	113.64	122.37
1	A	3514	ARG	C-N-CA	-5.08	113.64	122.37
1	A	2577	ALA	CA-C-N	5.08	131.11	121.97
1	A	2577	ALA	C-N-CA	5.08	131.11	121.97
1	A	3901	PRO	N-CA-C	-5.08	102.01	112.47
1	B	2209	ARG	O-C-N	-5.07	115.85	122.59
1	A	3708	PHE	N-CA-C	5.07	116.81	111.28
1	B	3708	PHE	N-CA-C	5.07	116.81	111.28
1	A	3434	GLU	CA-C-N	5.07	130.14	121.07
1	A	3434	GLU	C-N-CA	5.07	130.14	121.07
1	B	3520	THR	N-CA-CB	-5.07	102.89	111.50
1	B	2937	PRO	CA-C-N	-5.06	112.21	121.52
1	B	2937	PRO	C-N-CA	-5.06	112.21	121.52
1	B	3514	ARG	CA-C-N	-5.05	113.68	122.37
1	B	3514	ARG	C-N-CA	-5.05	113.68	122.37
1	B	3740	THR	N-CA-C	5.05	125.15	111.00
1	A	2125	TRP	N-CA-C	5.05	116.79	111.28
1	A	3740	THR	N-CA-C	5.04	125.12	111.00
1	A	3520	THR	N-CA-CB	-5.04	102.93	111.50
1	A	3655	ARG	CA-C-N	-5.03	112.92	121.97
1	A	3655	ARG	C-N-CA	-5.03	112.92	121.97
1	B	3655	ARG	CA-C-N	-5.03	112.92	121.97
1	B	3655	ARG	C-N-CA	-5.03	112.92	121.97
1	B	2125	TRP	N-CA-C	5.03	116.76	111.28
1	B	2372	CYS	CB-CA-C	-5.03	100.55	110.10
1	B	3822	LEU	CA-C-N	5.02	127.01	120.28
1	B	3822	LEU	C-N-CA	5.02	127.01	120.28
1	A	2372	CYS	CB-CA-C	-5.02	100.56	110.10
1	A	3822	LEU	CA-C-N	5.01	127.00	120.28
1	A	3822	LEU	C-N-CA	5.01	127.00	120.28
1	A	1981	SER	O-C-N	5.01	124.94	120.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2638	ARG	CA-C-N	5.01	127.76	119.35
1	B	2638	ARG	C-N-CA	5.01	127.76	119.35
1	B	3409	ASP	CA-C-N	5.00	126.09	119.84
1	B	3409	ASP	C-N-CA	5.00	126.09	119.84

All (6) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	1888	LEU	CA
1	A	2375	ILE	CA
1	A	3641	PHE	CA
1	B	1888	LEU	CA
1	B	2375	ILE	CA
1	B	3641	PHE	CA

All (275) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1381	ALA	Mainchain
1	A	1430	ASP	Mainchain
1	A	1479	LEU	Mainchain
1	A	1494	ASP	Peptide,Mainchain
1	A	1530	GLN	Peptide
1	A	1531	ARG	Peptide
1	A	1632	ASP	Mainchain
1	A	1633	GLY	Peptide,Mainchain
1	A	1800	THR	Mainchain
1	A	1803	THR	Mainchain
1	A	1813	LEU	Mainchain
1	A	1816	VAL	Mainchain
1	A	1820	PHE	Mainchain
1	A	1825	SER	Peptide
1	A	1827	ASP	Peptide,Mainchain
1	A	1849	GLU	Peptide
1	A	1887	PRO	Mainchain
1	A	1888	LEU	Peptide
1	A	1892	THR	Mainchain
1	A	1917	ARG	Peptide
1	A	1921	MET	Mainchain
1	A	1942	SER	Mainchain
1	A	1961	SER	Peptide,Mainchain
1	A	1962	SER	Peptide

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Mol	Chain	Res	Type	Group
1	A	1969	GLY	Mainchain
1	A	1984	ILE	Mainchain
1	A	1989	GLU	Peptide
1	A	2002	ILE	Peptide,Mainchain
1	A	2005	SER	Peptide
1	A	2006	LEU	Peptide
1	A	2018	LEU	Peptide,Mainchain
1	A	2065	LYS	Mainchain
1	A	2101	VAL	Peptide,Mainchain
1	A	2103	VAL	Peptide
1	A	2126	ARG	Peptide
1	A	2130	PHE	Mainchain
1	A	2148	SER	Mainchain
1	A	2160	PRO	Mainchain
1	A	2161	GLU	Peptide,Mainchain
1	A	2186	ILE	Mainchain
1	A	2196	THR	Mainchain
1	A	2198	ASN	Mainchain
1	A	2207	ILE	Peptide,Mainchain
1	A	2209	ARG	Mainchain
1	A	2279	ARG	Mainchain
1	A	2345	TYR	Peptide
1	A	2372	CYS	Peptide
1	A	2375	ILE	Peptide
1	A	2393	PRO	Peptide,Mainchain
1	A	2394	THR	Peptide
1	A	2432	LEU	Mainchain
1	A	2435	SER	Mainchain
1	A	2436	SER	Mainchain
1	A	2447	LYS	Peptide,Mainchain
1	A	2523	TRP	Mainchain
1	A	2527	GLU	Mainchain
1	A	2555	ALA	Mainchain
1	A	2561	TYR	Mainchain
1	A	2578	ILE	Mainchain
1	A	2608	SER	Mainchain
1	A	2616	LEU	Peptide,Mainchain
1	A	2617	PHE	Mainchain
1	A	2633	ILE	Mainchain
1	A	2638	ARG	Mainchain
1	A	2655	ILE	Peptide,Mainchain
1	A	2656	PHE	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	A	2690	SER	Mainchain
1	A	2708	ASN	Peptide
1	A	2731	PRO	Mainchain
1	A	2843	LEU	Mainchain
1	A	2872	GLU	Mainchain
1	A	2882	ALA	Mainchain
1	A	2936	VAL	Mainchain
1	A	2937	PRO	Peptide,Mainchain
1	A	2938	MET	Mainchain
1	A	2960	THR	Mainchain
1	A	2961	ILE	Mainchain
1	A	3335	GLY	Mainchain
1	A	3356	PHE	Peptide,Mainchain
1	A	3359	LYS	Peptide
1	A	3381	GLU	Mainchain
1	A	3382	CYS	Mainchain
1	A	3400	SER	Mainchain
1	A	3405	PRO	Peptide,Mainchain
1	A	3410	PRO	Peptide
1	A	3420	ASN	Mainchain
1	A	3425	LYS	Mainchain
1	A	3426	THR	Mainchain
1	A	3434	GLU	Peptide,Mainchain
1	A	3435	GLY	Mainchain
1	A	3500	ASP	Peptide,Mainchain
1	A	3565	ARG	Mainchain
1	A	3641	PHE	Peptide
1	A	3642	TYR	Mainchain
1	A	3655	ARG	Mainchain
1	A	3683	TYR	Mainchain
1	A	3684	CYS	Peptide
1	A	3685	GLN	Peptide,Mainchain
1	A	3686	PHE	Mainchain
1	A	3710	ILE	Peptide,Mainchain
1	A	3739	ASP	Mainchain
1	A	3740	THR	Peptide
1	A	3862	THR	Mainchain
1	A	3863	LYS	Mainchain
1	A	3866	GLU	Peptide
1	A	3900	ILE	Peptide
1	A	3917	THR	Peptide
1	A	3923	VAL	Mainchain

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Mol	Chain	Res	Type	Group
1	A	3998	ILE	Peptide,Mainchain
1	A	3999	ASP	Peptide
1	A	4034	LEU	Mainchain
1	A	4035	GLN	Mainchain
1	A	4047	ALA	Peptide,Mainchain
1	B	1381	ALA	Mainchain
1	B	1430	ASP	Mainchain
1	B	1479	LEU	Mainchain
1	B	1494	ASP	Peptide,Mainchain
1	B	1530	GLN	Peptide
1	B	1531	ARG	Peptide
1	B	1632	ASP	Mainchain
1	B	1633	GLY	Peptide,Mainchain
1	B	1800	THR	Mainchain
1	B	1803	THR	Mainchain
1	B	1813	LEU	Mainchain
1	B	1816	VAL	Mainchain
1	B	1820	PHE	Mainchain
1	B	1825	SER	Peptide
1	B	1827	ASP	Peptide,Mainchain
1	B	1849	GLU	Peptide
1	B	1887	PRO	Mainchain
1	B	1888	LEU	Peptide
1	B	1892	THR	Mainchain
1	B	1917	ARG	Peptide
1	B	1921	MET	Mainchain
1	B	1942	SER	Mainchain
1	B	1961	SER	Peptide,Mainchain
1	B	1962	SER	Peptide
1	B	1969	GLY	Mainchain
1	B	1984	ILE	Mainchain
1	B	1989	GLU	Peptide
1	B	2002	ILE	Peptide,Mainchain
1	B	2005	SER	Peptide
1	B	2006	LEU	Peptide
1	B	2018	LEU	Peptide,Mainchain
1	B	2065	LYS	Mainchain
1	B	2101	VAL	Peptide,Mainchain
1	B	2103	VAL	Peptide
1	B	2126	ARG	Peptide
1	B	2130	PHE	Mainchain
1	B	2148	SER	Mainchain

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Mol	Chain	Res	Type	Group
1	B	2160	PRO	Mainchain
1	B	2161	GLU	Peptide,Mainchain
1	B	2186	ILE	Mainchain
1	B	2196	THR	Mainchain
1	B	2198	ASN	Mainchain
1	B	2207	ILE	Peptide,Mainchain
1	B	2209	ARG	Mainchain
1	B	2279	ARG	Mainchain
1	B	2345	TYR	Peptide
1	B	2372	CYS	Peptide
1	B	2375	ILE	Peptide
1	B	2393	PRO	Peptide,Mainchain
1	B	2394	THR	Peptide
1	B	2432	LEU	Mainchain
1	B	2435	SER	Mainchain
1	B	2436	SER	Mainchain
1	B	2447	LYS	Peptide,Mainchain
1	B	2523	TRP	Mainchain
1	B	2527	GLU	Mainchain
1	B	2555	ALA	Mainchain
1	B	2561	TYR	Mainchain
1	B	2578	ILE	Mainchain
1	B	2608	SER	Mainchain
1	B	2616	LEU	Peptide,Mainchain
1	B	2617	PHE	Mainchain
1	B	2633	ILE	Mainchain
1	B	2638	ARG	Mainchain
1	B	2655	ILE	Peptide,Mainchain
1	B	2656	PHE	Peptide,Mainchain
1	B	2690	SER	Mainchain
1	B	2708	ASN	Peptide
1	B	2731	PRO	Mainchain
1	B	2843	LEU	Mainchain
1	B	2872	GLU	Mainchain
1	B	2882	ALA	Mainchain
1	B	2936	VAL	Mainchain
1	B	2937	PRO	Peptide,Mainchain
1	B	2938	MET	Mainchain
1	B	2960	THR	Mainchain
1	B	2961	ILE	Mainchain
1	B	3335	GLY	Mainchain
1	B	3356	PHE	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	B	3359	LYS	Peptide
1	B	3381	GLU	Mainchain
1	B	3382	CYS	Mainchain
1	B	3400	SER	Mainchain
1	B	3405	PRO	Peptide,Mainchain
1	B	3410	PRO	Peptide
1	B	3420	ASN	Mainchain
1	B	3425	LYS	Mainchain
1	B	3426	THR	Mainchain
1	B	3434	GLU	Peptide,Mainchain
1	B	3435	GLY	Mainchain
1	B	3500	ASP	Peptide,Mainchain
1	B	3565	ARG	Mainchain
1	B	3641	PHE	Peptide
1	B	3642	TYR	Mainchain
1	B	3655	ARG	Mainchain
1	B	3683	TYR	Mainchain
1	B	3684	CYS	Peptide
1	B	3685	GLN	Peptide,Mainchain
1	B	3686	PHE	Mainchain
1	B	3710	ILE	Peptide,Mainchain
1	B	3739	ASP	Mainchain
1	B	3740	THR	Peptide
1	B	3862	THR	Mainchain
1	B	3863	LYS	Mainchain
1	B	3866	GLU	Peptide
1	B	3900	ILE	Peptide
1	B	3917	THR	Peptide
1	B	3923	VAL	Mainchain
1	B	3998	ILE	Peptide,Mainchain
1	B	3999	ASP	Peptide
1	B	4034	LEU	Mainchain
1	B	4035	GLN	Mainchain
1	B	4047	ALA	Peptide,Mainchain
2	S	31	LEU	Peptide
2	S	32	TYR	Peptide,Mainchain

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	10585	0	4468	1045	3
1	B	10586	0	4469	1032	3
2	S	1065	0	464	10	0
2	T	1066	0	465	24	0
All	All	23302	0	9866	2094	3

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 63.

All (2094) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1364:GLU:CA	2:T:216:PRO:HA	1.19	1.65
1:A:1932:MET:CB	1:A:1946:ALA:HB1	1.24	1.64
1:B:2060:PHE:CB	1:B:2087:VAL:CB	1.78	1.62
1:A:2060:PHE:CB	1:A:2087:VAL:CB	1.78	1.57
1:A:3666:ALA:HB2	1:A:3668:ARG:CB	1.32	1.57
1:B:3666:ALA:HB2	1:B:3668:ARG:CB	1.32	1.57
1:B:1932:MET:CB	1:B:1946:ALA:HB1	1.24	1.56
1:B:3666:ALA:CA	1:B:3668:ARG:H	1.08	1.55
1:A:3666:ALA:CA	1:A:3668:ARG:H	1.08	1.54
1:B:1941:ASP:C	1:B:1942:SER:N	1.68	1.50
1:A:2774:ALA:C	1:A:2775:TRP:N	1.68	1.49
1:B:2002:ILE:HA	1:B:2003:LEU:CB	1.19	1.49
1:A:2301:TRP:C	1:A:2302:PHE:N	1.72	1.48
1:B:1986:GLU:C	1:B:1987:PHE:N	1.72	1.48
1:A:1844:TRP:C	1:A:1845:GLY:N	1.69	1.47
1:A:1941:ASP:C	1:A:1942:SER:N	1.68	1.47
1:B:1844:TRP:C	1:B:1845:GLY:N	1.69	1.46
1:B:1634:THR:HA	1:B:1635:ASP:CB	1.22	1.46
1:B:2774:ALA:C	1:B:2775:TRP:N	1.68	1.46
1:B:2301:TRP:C	1:B:2302:PHE:N	1.72	1.45
1:B:2441:VAL:CB	1:B:2442:GLY:N	1.80	1.44
1:B:3886:ALA:O	1:B:3890:GLN:CA	1.66	1.44
1:A:2512:LYS:CB	1:A:2523:TRP:CB	1.94	1.44
1:B:2512:LYS:CB	1:B:2523:TRP:CB	1.94	1.43
1:A:2441:VAL:CB	1:A:2442:GLY:N	1.80	1.43
1:A:1986:GLU:C	1:A:1987:PHE:N	1.72	1.42
1:B:3666:ALA:HA	1:B:3668:ARG:N	1.34	1.42
1:A:3666:ALA:HA	1:A:3668:ARG:N	1.34	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1634:THR:HA	1:A:1635:ASP:CB	1.22	1.41
1:A:2118:MET:N	1:A:2129:LEU:CB	1.83	1.41
1:B:1932:MET:CB	1:B:1946:ALA:CB	1.99	1.41
1:B:2118:MET:N	1:B:2129:LEU:CB	1.83	1.41
1:A:2002:ILE:HA	1:A:2003:LEU:CB	1.19	1.41
1:A:2709:LYS:C	1:A:2710:THR:N	1.79	1.41
1:A:4028:ARG:HA	1:A:4029:ILE:CB	1.47	1.40
1:A:3886:ALA:O	1:A:3890:GLN:CA	1.66	1.40
1:A:1932:MET:CB	1:A:1946:ALA:CB	1.99	1.39
1:B:2709:LYS:C	1:B:2710:THR:N	1.79	1.39
1:A:2435:SER:CB	1:A:2479:ILE:CA	2.01	1.38
1:A:2785:LYS:C	1:A:3458:PHE:HA	1.45	1.38
1:B:3739:ASP:HA	1:B:3740:THR:CB	1.31	1.38
1:A:3360:TYR:C	1:A:3361:ASP:N	1.82	1.38
1:B:2785:LYS:C	1:B:3458:PHE:HA	1.45	1.38
1:B:2785:LYS:O	1:B:3458:PHE:CA	1.69	1.38
1:A:1843:ALA:CB	1:A:1893:ALA:N	1.80	1.37
1:A:2785:LYS:O	1:A:3458:PHE:CA	1.69	1.37
1:B:2435:SER:CB	1:B:2479:ILE:CA	2.01	1.37
1:B:3360:TYR:C	1:B:3361:ASP:N	1.82	1.37
1:B:3432:LEU:N	1:B:3455:GLY:O	1.57	1.37
1:B:4028:ARG:HA	1:B:4029:ILE:CB	1.47	1.36
1:A:2435:SER:CB	1:A:2479:ILE:HA	1.56	1.36
1:A:3739:ASP:HA	1:A:3740:THR:CB	1.31	1.36
1:A:1364:GLU:CA	2:T:216:PRO:CA	1.82	1.35
1:B:2435:SER:CB	1:B:2479:ILE:HA	1.56	1.35
1:B:3847:SER:CB	1:B:3851:VAL:CB	2.03	1.35
1:A:3432:LEU:N	1:A:3455:GLY:O	1.57	1.35
1:A:3754:LYS:C	1:A:3755:SER:N	1.84	1.35
1:A:3847:SER:CB	1:A:3851:VAL:CB	2.03	1.35
1:B:1843:ALA:CB	1:B:1893:ALA:N	1.80	1.35
1:A:2369:SER:CB	1:A:2372:CYS:CB	2.03	1.34
1:A:1920:SER:CB	1:A:3998:ILE:C	2.01	1.34
1:B:2369:SER:CB	1:B:2372:CYS:CB	2.03	1.34
1:B:3754:LYS:C	1:B:3755:SER:N	1.84	1.34
1:A:3666:ALA:CA	1:A:3668:ARG:N	1.89	1.34
1:A:1364:GLU:HA	2:T:216:PRO:C	1.48	1.33
1:B:3859:VAL:CB	1:B:3888:LEU:CB	2.07	1.33
1:A:4031:GLN:CB	1:A:4032:PRO:HA	1.50	1.33
1:A:1364:GLU:HA	2:T:216:PRO:CA	0.86	1.32
1:B:2105:ASP:HA	1:B:2154:PHE:O	1.23	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1364:GLU:CA	2:T:216:PRO:C	2.01	1.32
1:A:2786:ILE:HA	1:A:3458:PHE:C	1.36	1.32
1:A:3356:PHE:CB	1:A:3357:ALA:HA	1.51	1.32
1:A:1843:ALA:CB	1:A:1844:TRP:HA	1.55	1.32
1:B:1920:SER:CB	1:B:3998:ILE:C	2.01	1.32
1:B:3356:PHE:CB	1:B:3357:ALA:HA	1.51	1.32
1:B:2657:ALA:C	1:B:2914:ILE:O	1.73	1.31
1:A:3859:VAL:CB	1:A:3888:LEU:CB	2.07	1.31
1:A:2600:TYR:CB	1:A:2613:SER:O	1.79	1.30
1:A:3713:GLU:CB	1:A:3714:GLN:HA	1.58	1.30
1:A:2657:ALA:C	1:A:2914:ILE:O	1.73	1.30
1:B:1843:ALA:CB	1:B:1844:TRP:HA	1.55	1.30
1:B:3666:ALA:CA	1:B:3668:ARG:N	1.89	1.30
1:B:3713:GLU:CB	1:B:3714:GLN:HA	1.58	1.30
1:A:3899:ASP:C	1:A:3900:ILE:N	1.89	1.30
1:A:4061:SER:O	1:A:4066:PRO:HA	1.17	1.30
1:B:1814:GLY:C	1:B:1815:ARG:CB	2.04	1.30
1:B:4031:GLN:CB	1:B:4032:PRO:HA	1.51	1.29
1:A:1814:GLY:C	1:A:1815:ARG:CB	2.04	1.29
1:A:1843:ALA:HB1	1:A:1844:TRP:CA	1.62	1.29
1:B:1843:ALA:HB1	1:B:1844:TRP:CA	1.62	1.29
1:B:2600:TYR:CB	1:B:2613:SER:O	1.80	1.28
1:B:3899:ASP:C	1:B:3900:ILE:N	1.89	1.28
1:A:1942:SER:O	1:A:1945:LEU:N	1.64	1.28
1:A:2105:ASP:HA	1:A:2154:PHE:O	1.23	1.27
1:B:1942:SER:O	1:B:1945:LEU:N	1.64	1.27
1:B:3886:ALA:O	1:B:3890:GLN:C	1.77	1.27
1:A:3500:ASP:CB	1:A:3501:PRO:HA	1.60	1.27
1:B:3922:GLY:HA2	1:B:3923:VAL:CB	1.62	1.27
1:A:2006:LEU:CB	1:A:2007:GLY:HA2	1.64	1.26
1:B:4061:SER:O	1:B:4066:PRO:HA	1.17	1.26
1:A:3369:TYR:HA	1:A:3370:LEU:CB	1.49	1.26
1:B:3500:ASP:CB	1:B:3501:PRO:HA	1.60	1.26
1:A:1633:GLY:H	1:A:1634:THR:CA	1.43	1.25
1:A:1466:GLN:CB	1:A:1469:LEU:H	1.49	1.25
1:A:3886:ALA:O	1:A:3890:GLN:C	1.77	1.25
1:A:2873:LEU:O	1:A:2875:ASP:N	1.69	1.24
1:B:1634:THR:CA	1:B:1635:ASP:CB	2.03	1.24
1:B:2873:LEU:O	1:B:2875:ASP:N	1.69	1.24
1:A:1634:THR:CA	1:A:1635:ASP:CB	2.03	1.24
1:B:2006:LEU:CB	1:B:2007:GLY:HA2	1.64	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1633:GLY:N	1:A:1635:ASP:CB	2.00	1.24
1:B:1869:GLN:O	1:B:1873:GLN:CB	1.87	1.23
1:B:3369:TYR:HA	1:B:3370:LEU:CB	1.49	1.23
1:A:1869:GLN:O	1:A:1873:GLN:CB	1.87	1.23
1:B:2306:ASP:CB	1:B:2311:LYS:H	1.52	1.23
1:B:1633:GLY:H	1:B:1634:THR:CA	1.43	1.23
1:B:1633:GLY:N	1:B:1635:ASP:CB	2.00	1.22
1:A:3406:PHE:CB	1:A:3514:ARG:O	1.88	1.22
1:B:1466:GLN:CB	1:B:1469:LEU:H	1.49	1.22
1:A:2306:ASP:CB	1:A:2311:LYS:H	1.52	1.22
1:B:3861:GLU:O	1:B:3863:LYS:N	1.73	1.22
1:B:3406:PHE:CB	1:B:3514:ARG:O	1.88	1.22
1:A:2002:ILE:CA	1:A:2003:LEU:CB	2.16	1.21
1:A:3666:ALA:CB	1:A:3668:ARG:CB	2.18	1.21
1:A:3995:GLY:O	1:A:3997:LYS:N	1.74	1.21
1:A:3421:TYR:CB	1:A:3422:TYR:HA	1.70	1.21
1:A:4013:HIS:O	1:A:4016:CYS:HA	1.06	1.21
1:B:2002:ILE:CA	1:B:2003:LEU:CB	2.16	1.21
1:B:3886:ALA:O	1:B:3890:GLN:O	1.58	1.21
1:A:1985:SER:C	1:A:1987:PHE:CB	2.14	1.21
1:A:2153:VAL:O	1:A:2195:GLU:CB	1.89	1.21
1:B:2206:THR:O	1:B:2209:ARG:O	1.54	1.21
1:B:3421:TYR:CB	1:B:3422:TYR:HA	1.70	1.21
1:B:3666:ALA:CB	1:B:3668:ARG:N	2.04	1.21
1:A:2206:THR:O	1:A:2209:ARG:O	1.54	1.20
1:B:1984:ILE:CB	1:B:1985:SER:HA	1.63	1.20
1:B:4013:HIS:O	1:B:4016:CYS:HA	1.06	1.20
1:B:3666:ALA:CB	1:B:3668:ARG:CB	2.18	1.20
1:B:2153:VAL:O	1:B:2195:GLU:CB	1.89	1.20
1:B:3995:GLY:O	1:B:3997:LYS:N	1.74	1.20
1:B:1985:SER:C	1:B:1987:PHE:CB	2.14	1.20
1:A:3666:ALA:CB	1:A:3668:ARG:N	2.04	1.19
1:A:3861:GLU:O	1:A:3863:LYS:N	1.73	1.19
1:A:3886:ALA:O	1:A:3890:GLN:O	1.58	1.19
1:B:3807:SER:HA	1:B:3809:GLU:N	1.58	1.19
1:A:3922:GLY:HA2	1:A:3923:VAL:CB	1.62	1.18
1:A:1447:GLU:HA	1:A:1449:GLN:N	1.57	1.18
1:A:2006:LEU:CA	1:A:2008:ASP:H	1.55	1.18
1:A:2411:LYS:CB	1:A:2554:ALA:HB3	1.72	1.18
1:B:2785:LYS:O	1:B:3458:PHE:N	1.76	1.18
1:B:1447:GLU:HA	1:B:1449:GLN:N	1.57	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2006:LEU:CA	1:B:2008:ASP:H	1.55	1.18
1:B:2153:VAL:O	1:B:2195:GLU:CA	1.91	1.18
1:B:2411:LYS:CB	1:B:2554:ALA:HB3	1.72	1.18
1:A:2785:LYS:O	1:A:3458:PHE:N	1.76	1.18
1:A:3336:HIS:N	1:A:3337:LEU:HA	1.44	1.18
1:A:2092:ALA:HB1	1:A:2097:HIS:CA	1.72	1.17
1:A:3807:SER:HA	1:A:3809:GLU:N	1.58	1.17
1:B:2092:ALA:HB1	1:B:2097:HIS:CA	1.72	1.17
1:A:1842:GLY:HA2	1:A:1891:HIS:HA	1.23	1.16
1:A:2153:VAL:O	1:A:2195:GLU:CA	1.91	1.16
1:A:3807:SER:HA	1:A:3808:LYS:C	1.69	1.16
1:B:2114:LEU:HA	1:B:2119:LEU:N	1.53	1.16
1:A:1941:ASP:CB	1:A:1942:SER:HA	1.76	1.16
1:B:2366:LEU:CB	1:B:2367:SER:HA	1.76	1.16
1:B:4013:HIS:O	1:B:4016:CYS:CA	1.94	1.16
1:A:2600:TYR:CB	1:A:2613:SER:C	2.19	1.15
1:A:3666:ALA:CB	1:A:3668:ARG:H	1.57	1.15
1:B:2600:TYR:CB	1:B:2613:SER:C	2.19	1.15
1:B:3666:ALA:HB1	1:B:3669:THR:H	1.00	1.15
1:B:1550:GLY:HA2	1:B:1551:SER:C	1.71	1.15
1:A:2114:LEU:HA	1:A:2119:LEU:N	1.53	1.15
1:A:4031:GLN:CB	1:A:4032:PRO:CA	2.24	1.15
1:A:1550:GLY:HA2	1:A:1551:SER:C	1.71	1.14
1:B:2328:GLY:HA2	1:B:2329:ASP:CB	1.76	1.14
1:B:3666:ALA:HB1	1:B:3669:THR:N	1.59	1.14
1:B:1493:LEU:O	1:B:1495:THR:N	1.79	1.14
1:B:1941:ASP:CB	1:B:1942:SER:HA	1.76	1.14
1:B:3500:ASP:CB	1:B:3501:PRO:CA	2.21	1.14
1:A:3665:ARG:O	1:A:3667:ALA:HB3	1.48	1.14
1:A:4013:HIS:O	1:A:4016:CYS:CA	1.94	1.14
1:B:3356:PHE:CB	1:B:3358:VAL:HA	1.78	1.14
1:A:3356:PHE:CB	1:A:3358:VAL:HA	1.78	1.14
1:A:3666:ALA:HB1	1:A:3669:THR:N	1.59	1.14
1:B:4031:GLN:CB	1:B:4032:PRO:CA	2.24	1.14
1:B:2006:LEU:CB	1:B:2007:GLY:CA	2.26	1.13
1:B:3666:ALA:CB	1:B:3668:ARG:H	1.57	1.13
1:A:3890:GLN:H	1:A:3891:ARG:CA	1.62	1.13
1:B:3430:SER:CB	1:B:3454:ASP:CB	2.26	1.13
1:A:1493:LEU:O	1:A:1495:THR:N	1.79	1.13
1:A:2107:LYS:O	1:A:2504:LEU:N	1.81	1.13
1:A:2786:ILE:HA	1:A:3458:PHE:O	1.45	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3500:ASP:CB	1:A:3501:PRO:CA	2.21	1.13
1:B:3890:GLN:H	1:B:3891:ARG:C	1.57	1.13
1:A:2092:ALA:CB	1:A:2098:ALA:H	1.62	1.13
1:A:3430:SER:CB	1:A:3454:ASP:CB	2.26	1.12
1:A:3845:GLN:CB	1:A:3880:THR:CB	2.28	1.12
1:A:3886:ALA:O	1:A:3890:GLN:HA	1.33	1.12
1:B:2786:ILE:HA	1:B:3458:PHE:C	1.36	1.12
1:A:2006:LEU:CB	1:A:2007:GLY:CA	2.26	1.12
1:A:2328:GLY:CA	1:A:2329:ASP:CB	2.25	1.12
1:A:3878:HIS:CB	1:A:3879:LEU:C	2.23	1.12
1:B:3431:PHE:C	1:B:3455:GLY:O	1.87	1.12
1:B:3665:ARG:O	1:B:3667:ALA:HB3	1.48	1.12
1:A:1984:ILE:CB	1:A:1985:SER:HA	1.63	1.12
1:A:4035:GLN:HA	1:A:4036:GLN:CB	1.78	1.12
1:B:1842:GLY:HA2	1:B:1891:HIS:HA	1.23	1.12
1:B:2092:ALA:CB	1:B:2098:ALA:H	1.62	1.12
1:A:2366:LEU:CB	1:A:2367:SER:HA	1.76	1.11
1:B:3739:ASP:CA	1:B:3740:THR:CB	2.27	1.11
1:B:4035:GLN:HA	1:B:4036:GLN:CB	1.78	1.11
1:A:3430:SER:HA	1:A:3454:ASP:CB	1.80	1.11
1:B:2786:ILE:HA	1:B:3458:PHE:O	1.45	1.11
1:B:3430:SER:HA	1:B:3454:ASP:CB	1.80	1.11
1:A:2435:SER:CB	1:A:2479:ILE:N	2.13	1.11
1:B:1497:ILE:O	1:B:1499:VAL:N	1.83	1.11
1:B:2160:PRO:O	1:B:2162:TYR:N	1.83	1.11
1:B:2328:GLY:CA	1:B:2329:ASP:CB	2.25	1.11
1:B:3807:SER:HA	1:B:3808:LYS:C	1.69	1.11
1:B:3886:ALA:O	1:B:3890:GLN:HA	1.33	1.11
1:A:4032:PRO:N	1:A:4033:LEU:HA	1.61	1.11
1:B:2107:LYS:O	1:B:2504:LEU:N	1.81	1.11
1:A:2378:VAL:CB	1:A:2379:SER:CB	2.29	1.10
1:B:1844:TRP:C	1:B:1893:ALA:O	1.94	1.10
1:B:3890:GLN:H	1:B:3891:ARG:CA	1.62	1.10
1:A:1497:ILE:O	1:A:1499:VAL:N	1.83	1.10
1:A:2371:PHE:H	1:A:2372:CYS:CB	1.63	1.10
1:A:3890:GLN:H	1:A:3891:ARG:C	1.57	1.10
1:B:2092:ALA:CB	1:B:2097:HIS:HA	1.81	1.10
1:B:2371:PHE:H	1:B:2372:CYS:CB	1.64	1.10
1:B:3336:HIS:N	1:B:3337:LEU:HA	1.44	1.10
1:B:3878:HIS:CB	1:B:3879:LEU:C	2.23	1.10
1:A:2092:ALA:CB	1:A:2097:HIS:HA	1.82	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2118:MET:H	1:A:2129:LEU:CB	1.54	1.10
1:A:2160:PRO:O	1:A:2162:TYR:N	1.83	1.10
1:B:2378:VAL:CB	1:B:2379:SER:CB	2.30	1.10
1:B:2435:SER:CB	1:B:2479:ILE:N	2.13	1.10
1:B:3845:GLN:CB	1:B:3880:THR:CB	2.28	1.10
1:A:3453:GLN:CB	1:A:3454:ASP:CB	2.30	1.10
1:A:4028:ARG:CA	1:A:4029:ILE:CB	2.30	1.10
1:B:3453:GLN:CB	1:B:3454:ASP:CB	2.30	1.10
1:A:2328:GLY:HA2	1:A:2329:ASP:CB	1.76	1.09
1:B:1447:GLU:HA	1:B:1449:GLN:H	0.95	1.09
1:B:2785:LYS:C	1:B:3458:PHE:CA	2.19	1.09
1:A:1844:TRP:C	1:A:1893:ALA:O	1.94	1.09
1:B:3878:HIS:CB	1:B:3879:LEU:O	2.00	1.09
1:A:3739:ASP:CA	1:A:3740:THR:CB	2.27	1.09
1:B:2785:LYS:O	1:B:3458:PHE:CB	2.00	1.09
1:A:2006:LEU:HA	1:A:2008:ASP:H	0.95	1.09
1:A:3878:HIS:CB	1:A:3879:LEU:O	2.00	1.09
1:B:3421:TYR:CB	1:B:3422:TYR:CA	2.29	1.09
1:A:2785:LYS:O	1:A:3458:PHE:CB	2.00	1.09
1:A:3369:TYR:CA	1:A:3370:LEU:CB	2.30	1.09
1:A:3666:ALA:HB1	1:A:3669:THR:H	1.00	1.09
1:A:4013:HIS:C	1:A:4016:CYS:HA	1.77	1.09
1:A:3404:VAL:O	1:A:3495:PHE:HA	1.53	1.08
1:A:3431:PHE:C	1:A:3455:GLY:O	1.87	1.08
1:B:2118:MET:H	1:B:2129:LEU:CB	1.54	1.08
1:A:1447:GLU:CA	1:A:1449:GLN:H	1.65	1.08
1:A:1791:GLY:O	1:A:1915:SER:O	1.71	1.08
1:B:1447:GLU:CA	1:B:1449:GLN:H	1.65	1.08
1:B:1791:GLY:O	1:B:1915:SER:O	1.71	1.08
1:A:3998:ILE:O	1:A:3999:ASP:CB	1.94	1.08
1:B:2578:ILE:O	1:B:2580:LYS:N	1.85	1.08
1:A:2578:ILE:O	1:A:2580:LYS:N	1.85	1.08
1:A:3421:TYR:CB	1:A:3422:TYR:CA	2.29	1.08
1:B:4013:HIS:C	1:B:4016:CYS:HA	1.77	1.08
1:A:1447:GLU:HA	1:A:1449:GLN:H	0.95	1.07
1:B:1814:GLY:C	1:B:1816:VAL:N	2.11	1.07
1:A:1814:GLY:C	1:A:1816:VAL:N	2.11	1.07
1:B:4032:PRO:N	1:B:4033:LEU:HA	1.61	1.07
1:A:3713:GLU:CB	1:A:3714:GLN:CA	2.32	1.07
1:B:3404:VAL:O	1:B:3495:PHE:HA	1.53	1.07
1:B:2435:SER:CA	1:B:2479:ILE:HA	1.85	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2708:ASN:CB	1:B:2709:LYS:HA	1.84	1.07
1:A:2435:SER:N	1:A:2479:ILE:HA	1.68	1.07
1:A:1633:GLY:H	1:A:1634:THR:CB	1.67	1.06
1:A:1633:GLY:CA	1:A:1635:ASP:CB	2.31	1.06
1:A:2435:SER:CA	1:A:2479:ILE:HA	1.85	1.06
1:B:1633:GLY:H	1:B:1634:THR:CB	1.67	1.06
1:B:2435:SER:N	1:B:2479:ILE:HA	1.68	1.06
1:B:3369:TYR:CA	1:B:3370:LEU:CB	2.30	1.06
1:A:2708:ASN:CB	1:A:2709:LYS:HA	1.84	1.06
1:A:3453:GLN:O	1:A:3497:HIS:O	1.71	1.06
1:B:1633:GLY:CA	1:B:1635:ASP:CB	2.31	1.06
1:B:2006:LEU:HA	1:B:2008:ASP:H	0.95	1.06
1:A:1985:SER:O	1:A:1987:PHE:CB	2.03	1.06
1:B:3998:ILE:O	1:B:3999:ASP:CB	1.94	1.06
1:B:2441:VAL:CA	1:B:2442:GLY:N	2.18	1.06
1:B:3713:GLU:CB	1:B:3714:GLN:CA	2.32	1.06
1:A:2441:VAL:CA	1:A:2442:GLY:N	2.18	1.05
1:B:2105:ASP:C	1:B:2157:ASP:CB	2.29	1.05
1:B:2443:ILE:N	1:B:2485:PHE:O	1.90	1.05
1:B:1932:MET:CB	1:B:1946:ALA:CA	2.34	1.05
1:B:1985:SER:O	1:B:1987:PHE:CB	2.03	1.05
1:B:3453:GLN:O	1:B:3497:HIS:O	1.71	1.05
1:A:2105:ASP:C	1:A:2157:ASP:CB	2.29	1.05
1:A:1932:MET:CB	1:A:1946:ALA:CA	2.34	1.05
1:B:1878:HIS:CB	1:B:1888:LEU:O	2.05	1.05
1:B:3408:LEU:O	1:B:3518:PHE:CB	2.05	1.05
1:A:3997:LYS:O	1:A:3999:ASP:CB	2.04	1.04
1:B:2000:ARG:O	1:B:2212:LEU:N	1.89	1.04
1:B:2346:PHE:C	1:B:2348:HIS:CB	2.30	1.04
1:B:4028:ARG:CA	1:B:4029:ILE:CB	2.30	1.04
1:A:1880:THR:N	1:A:1887:PRO:O	1.90	1.04
1:A:2000:ARG:O	1:A:2212:LEU:N	1.89	1.04
1:A:2346:PHE:C	1:A:2348:HIS:CB	2.30	1.04
1:A:3408:LEU:O	1:A:3518:PHE:CB	2.05	1.04
1:B:3997:LYS:O	1:B:3999:ASP:CB	2.04	1.04
1:A:2434:ASN:CB	1:A:2435:SER:HA	1.87	1.04
1:B:1633:GLY:N	1:B:1634:THR:CA	2.13	1.04
1:B:1941:ASP:CB	1:B:1942:SER:CB	2.35	1.04
1:B:3899:ASP:CB	1:B:3900:ILE:N	2.20	1.04
1:A:3899:ASP:CB	1:A:3900:ILE:N	2.20	1.04
1:B:1941:ASP:CB	1:B:1942:SER:CA	2.35	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3356:PHE:CB	1:B:3357:ALA:CA	2.35	1.04
1:A:1878:HIS:CB	1:A:1888:LEU:O	2.05	1.04
1:A:1941:ASP:CB	1:A:1942:SER:CA	2.35	1.04
1:A:1364:GLU:CB	2:T:216:PRO:C	2.31	1.03
1:A:1941:ASP:CB	1:A:1942:SER:CB	2.35	1.03
1:A:2443:ILE:N	1:A:2485:PHE:O	1.90	1.03
1:A:3409:ASP:CB	1:A:3518:PHE:CB	2.36	1.03
1:A:3430:SER:CA	1:A:3454:ASP:CB	2.37	1.03
1:A:3432:LEU:N	1:A:3455:GLY:C	2.16	1.03
1:B:1880:THR:N	1:B:1887:PRO:O	1.90	1.03
1:B:2653:TRP:O	1:B:2656:PHE:CB	2.07	1.03
1:B:3877:CYS:CB	1:B:3878:HIS:C	2.30	1.03
1:A:2653:TRP:O	1:A:2656:PHE:CB	2.07	1.03
1:A:3356:PHE:CB	1:A:3357:ALA:CA	2.35	1.03
1:A:3666:ALA:CB	1:A:3668:ARG:CA	2.37	1.03
1:A:3877:CYS:CB	1:A:3878:HIS:C	2.30	1.03
1:A:4010:LEU:O	1:A:4014:VAL:N	1.92	1.03
1:B:3430:SER:CA	1:B:3454:ASP:CB	2.37	1.03
1:A:1633:GLY:N	1:A:1634:THR:CA	2.13	1.02
1:A:1364:GLU:N	2:T:216:PRO:HA	1.74	1.02
1:A:3922:GLY:CA	1:A:3923:VAL:CB	2.37	1.02
1:B:2434:ASN:CB	1:B:2435:SER:HA	1.87	1.02
1:B:3666:ALA:CB	1:B:3668:ARG:CA	2.37	1.02
1:B:2105:ASP:CA	1:B:2154:PHE:O	2.07	1.02
1:B:3409:ASP:CB	1:B:3518:PHE:CB	2.36	1.02
1:A:1843:ALA:HB3	1:A:1893:ALA:N	1.56	1.02
1:A:2459:HIS:O	1:A:2463:ASN:CB	2.08	1.02
1:A:2105:ASP:CA	1:A:2154:PHE:O	2.07	1.01
1:B:2006:LEU:HA	1:B:2008:ASP:N	1.75	1.01
1:B:1843:ALA:HB3	1:B:1893:ALA:N	1.56	1.01
1:B:2786:ILE:N	1:B:3458:PHE:HA	1.50	1.01
1:A:2871:GLN:O	1:A:2874:TYR:CB	2.09	1.01
1:B:3922:GLY:CA	1:B:3923:VAL:CB	2.37	1.01
1:B:4010:LEU:O	1:B:4014:VAL:N	1.92	1.01
1:A:4003:ASP:O	1:A:4007:VAL:N	1.94	1.00
1:B:1839:THR:O	1:B:1891:HIS:CB	2.09	1.00
1:B:2092:ALA:HB1	1:B:2097:HIS:HA	1.01	1.00
1:A:2006:LEU:HA	1:A:2008:ASP:N	1.75	1.00
1:A:3888:LEU:C	1:A:3890:GLN:CB	2.34	1.00
1:B:2459:HIS:O	1:B:2463:ASN:CB	2.08	1.00
1:B:2871:GLN:O	1:B:2874:TYR:CB	2.09	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3888:LEU:C	1:B:3890:GLN:CB	2.34	1.00
1:A:2092:ALA:HB1	1:A:2097:HIS:HA	1.01	1.00
1:A:4061:SER:O	1:A:4066:PRO:CA	2.10	1.00
1:A:1839:THR:O	1:A:1891:HIS:CB	2.09	0.99
1:B:2006:LEU:CA	1:B:2008:ASP:N	2.25	0.99
1:B:3807:SER:CA	1:B:3809:GLU:N	2.25	0.99
1:A:3749:ASP:C	1:A:3752:THR:CB	2.36	0.99
1:B:1631:LYS:C	1:B:1635:ASP:CB	2.35	0.99
1:A:1631:LYS:C	1:A:1635:ASP:CB	2.35	0.99
1:B:1844:TRP:CA	1:B:1893:ALA:O	2.10	0.99
1:B:3336:HIS:N	1:B:3337:LEU:CA	2.25	0.99
1:B:3749:ASP:C	1:B:3752:THR:CB	2.36	0.99
1:B:3878:HIS:CB	1:B:3879:LEU:HA	1.93	0.99
1:A:3807:SER:CA	1:A:3809:GLU:N	2.25	0.99
1:B:2337:ALA:O	1:B:2341:THR:CB	2.11	0.99
1:A:2092:ALA:HB2	1:A:2098:ALA:H	1.28	0.98
1:A:3336:HIS:N	1:A:3337:LEU:CA	2.25	0.98
1:A:3878:HIS:CB	1:A:3879:LEU:HA	1.93	0.98
1:B:3737:THR:CB	1:B:3738:VAL:CB	2.41	0.98
1:B:3545:ARG:O	1:B:3549:ILE:CB	2.12	0.98
1:B:4003:ASP:O	1:B:4007:VAL:N	1.94	0.98
1:A:2337:ALA:O	1:A:2341:THR:CB	2.11	0.98
1:B:4061:SER:O	1:B:4066:PRO:CA	2.10	0.98
1:A:1848:ASP:CB	1:A:1849:GLU:C	2.37	0.98
1:B:1936:ILE:HA	1:B:1942:SER:CB	1.94	0.98
1:B:2092:ALA:HB2	1:B:2098:ALA:H	1.28	0.98
1:A:1844:TRP:CA	1:A:1893:ALA:O	2.10	0.98
1:A:3358:VAL:C	1:A:3360:TYR:CB	2.37	0.97
1:A:2615:TYR:HA	1:A:2616:LEU:CB	1.92	0.97
1:A:1936:ILE:HA	1:A:1942:SER:CB	1.94	0.97
1:B:2160:PRO:C	1:B:2162:TYR:H	1.72	0.97
1:A:2006:LEU:CA	1:A:2008:ASP:N	2.25	0.97
1:A:2155:ASP:CB	1:A:2156:SER:HA	1.94	0.97
1:B:3358:VAL:C	1:B:3360:TYR:CB	2.38	0.97
1:B:2435:SER:H	1:B:2479:ILE:HA	1.25	0.97
1:B:1848:ASP:CB	1:B:1849:GLU:C	2.37	0.97
1:B:2615:TYR:HA	1:B:2616:LEU:CB	1.92	0.97
1:B:2155:ASP:CB	1:B:2156:SER:HA	1.94	0.97
1:A:3737:THR:CB	1:A:3738:VAL:CB	2.41	0.97
1:B:1691:SER:CB	1:B:1692:ASP:HA	1.94	0.96
1:A:2435:SER:H	1:A:2479:ILE:HA	1.25	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3545:ARG:O	1:A:3549:ILE:CB	2.12	0.96
1:B:2786:ILE:CA	1:B:3458:PHE:C	2.27	0.96
1:B:3890:GLN:H	1:B:3891:ARG:HA	1.30	0.96
1:A:1633:GLY:HA3	1:A:1635:ASP:CB	1.95	0.96
1:A:2396:ASP:O	1:A:2398:ILE:N	1.99	0.96
1:A:1633:GLY:N	1:A:1634:THR:HA	1.79	0.96
1:A:2117:SER:HA	1:A:2129:LEU:CB	1.95	0.96
1:A:2160:PRO:C	1:A:2162:TYR:H	1.72	0.96
1:B:2434:ASN:HA	1:B:2435:SER:O	1.66	0.96
1:A:2786:ILE:CA	1:A:3458:PHE:C	2.27	0.96
1:A:4035:GLN:CA	1:A:4036:GLN:CB	2.42	0.96
1:A:2786:ILE:N	1:A:3458:PHE:HA	1.50	0.96
1:A:3878:HIS:CB	1:A:3879:LEU:CA	2.43	0.96
1:B:2015:LYS:O	1:B:2019:SER:CB	2.14	0.96
1:A:2015:LYS:O	1:A:2019:SER:CB	2.14	0.95
1:A:2435:SER:CB	1:A:2479:ILE:CB	2.43	0.95
1:B:3429:LEU:O	1:B:3452:ILE:HA	1.65	0.95
1:B:3432:LEU:N	1:B:3455:GLY:C	2.16	0.95
1:A:1788:GLN:C	1:A:1790:TYR:H	1.67	0.95
1:A:3429:LEU:O	1:A:3452:ILE:HA	1.65	0.95
1:B:2117:SER:HA	1:B:2129:LEU:CB	1.95	0.95
1:B:2396:ASP:O	1:B:2398:ILE:N	1.99	0.95
1:B:3878:HIS:CB	1:B:3879:LEU:CA	2.43	0.95
1:A:2002:ILE:O	1:A:2213:LEU:HA	1.67	0.95
1:A:2434:ASN:HA	1:A:2435:SER:O	1.66	0.95
1:A:1624:ARG:CB	1:A:1647:ALA:CB	2.45	0.95
1:A:2378:VAL:N	1:A:2379:SER:CB	2.30	0.95
1:A:3810:SER:CB	1:A:3837:GLY:HA3	1.97	0.95
1:B:2435:SER:CB	1:B:2479:ILE:CB	2.43	0.95
1:A:1920:SER:CB	1:A:3998:ILE:O	2.15	0.95
1:A:3751:VAL:N	1:A:3752:THR:CB	2.30	0.95
1:B:1633:GLY:N	1:B:1634:THR:HA	1.79	0.95
1:B:1633:GLY:HA3	1:B:1635:ASP:CB	1.95	0.95
1:B:2002:ILE:O	1:B:2213:LEU:HA	1.67	0.95
1:B:3751:VAL:N	1:B:3752:THR:CB	2.30	0.95
1:A:2938:MET:O	1:A:2939:GLU:C	2.01	0.94
1:B:1843:ALA:HB1	1:B:1893:ALA:N	1.81	0.94
1:B:2188:PRO:CB	1:B:2189:ASN:C	2.40	0.94
1:A:1734:PHE:O	1:A:1756:LEU:CB	2.15	0.94
1:B:1788:GLN:O	1:B:1790:TYR:N	2.00	0.94
1:B:3810:SER:CB	1:B:3837:GLY:HA3	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1466:GLN:CB	1:A:1469:LEU:N	2.31	0.94
1:A:2188:PRO:CB	1:A:2189:ASN:C	2.40	0.94
1:A:3453:GLN:N	1:A:3454:ASP:CB	2.30	0.94
1:B:2378:VAL:N	1:B:2379:SER:CB	2.30	0.94
1:A:1843:ALA:HB1	1:A:1893:ALA:N	1.81	0.94
1:A:2708:ASN:CB	1:A:2709:LYS:CA	2.46	0.94
1:B:1814:GLY:CA	1:B:1815:ARG:CB	2.46	0.94
1:B:3859:VAL:CB	1:B:3888:LEU:CA	2.46	0.94
1:A:1691:SER:CB	1:A:1692:ASP:HA	1.94	0.94
1:A:2092:ALA:HB1	1:A:2098:ALA:N	1.83	0.94
1:B:1920:SER:CB	1:B:3998:ILE:O	2.15	0.94
1:B:2581:LEU:CB	1:B:2582:VAL:CA	2.43	0.94
1:B:3453:GLN:N	1:B:3454:ASP:CB	2.30	0.94
1:B:1734:PHE:O	1:B:1756:LEU:CB	2.15	0.93
1:B:1984:ILE:CB	1:B:1985:SER:CA	2.46	0.93
1:A:1788:GLN:O	1:A:1790:TYR:N	2.00	0.93
1:A:2378:VAL:H	1:A:2379:SER:CB	1.80	0.93
1:B:3995:GLY:C	1:B:3997:LYS:H	1.67	0.93
1:B:1624:ARG:CB	1:B:1647:ALA:CB	2.45	0.93
1:A:1814:GLY:CA	1:A:1815:ARG:CB	2.46	0.93
1:B:1986:GLU:HA	1:B:1987:PHE:C	1.93	0.93
1:A:2107:LYS:O	1:A:2503:VAL:C	2.11	0.93
1:A:1986:GLU:HA	1:A:1987:PHE:C	1.93	0.93
1:A:2547:SER:O	1:A:2551:THR:CB	2.17	0.93
1:A:2581:LEU:CB	1:A:2582:VAL:CA	2.43	0.93
1:B:2378:VAL:H	1:B:2379:SER:CB	1.80	0.93
1:A:2107:LYS:O	1:A:2108:VAL:CB	2.15	0.93
1:B:2708:ASN:CB	1:B:2709:LYS:CA	2.46	0.93
1:A:3859:VAL:CB	1:A:3888:LEU:CA	2.46	0.93
1:B:1788:GLN:C	1:B:1790:TYR:H	1.67	0.93
1:B:2726:GLU:CB	1:B:2727:GLU:HA	1.99	0.93
1:B:2107:LYS:O	1:B:2503:VAL:C	2.11	0.93
1:B:3754:LYS:O	1:B:3756:TYR:N	2.02	0.93
1:A:2172:ASP:O	1:A:2183:ARG:HA	1.69	0.92
1:A:3995:GLY:C	1:A:3997:LYS:H	1.67	0.92
1:B:2938:MET:O	1:B:2939:GLU:C	2.01	0.92
1:A:2369:SER:C	1:A:2372:CYS:CB	2.42	0.92
1:A:2306:ASP:CB	1:A:2311:LYS:N	2.31	0.92
1:B:1466:GLN:CB	1:B:1469:LEU:N	2.31	0.92
1:B:2306:ASP:CB	1:B:2311:LYS:N	2.31	0.92
1:B:2369:SER:C	1:B:2372:CYS:CB	2.42	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1848:ASP:N	1:A:1849:GLU:HA	1.84	0.92
1:B:1530:GLN:O	1:B:1531:ARG:C	2.02	0.92
1:A:3890:GLN:H	1:A:3891:ARG:HA	1.30	0.92
1:B:2547:SER:O	1:B:2551:THR:CB	2.17	0.92
1:B:1848:ASP:N	1:B:1849:GLU:HA	1.84	0.92
1:B:2092:ALA:HB1	1:B:2098:ALA:N	1.83	0.92
1:B:3808:LYS:O	1:B:3810:SER:N	2.03	0.92
1:B:4035:GLN:CA	1:B:4036:GLN:CB	2.42	0.92
1:A:2614:HIS:O	1:A:2616:LEU:HA	1.70	0.92
1:A:3754:LYS:O	1:A:3756:TYR:N	2.02	0.92
1:A:3808:LYS:O	1:A:3810:SER:N	2.03	0.92
1:B:3478:THR:HA	1:B:3483:ASP:HA	1.51	0.91
1:B:2378:VAL:CB	1:B:2379:SER:CA	2.46	0.91
1:B:3738:VAL:HA	1:B:3739:ASP:CB	2.01	0.91
1:A:2578:ILE:C	1:A:2580:LYS:H	1.74	0.91
1:B:2614:HIS:O	1:B:2616:LEU:HA	1.70	0.91
1:B:3899:ASP:CA	1:B:3900:ILE:N	2.33	0.91
1:B:1814:GLY:HA3	1:B:1815:ARG:N	1.85	0.91
1:A:1941:ASP:C	1:A:1942:SER:CA	2.44	0.91
1:B:3453:GLN:CA	1:B:3454:ASP:CB	2.49	0.91
1:B:2172:ASP:O	1:B:2183:ARG:HA	1.69	0.91
1:B:3432:LEU:CB	1:B:3457:PHE:N	2.11	0.91
1:B:2604:LYS:CB	1:B:2610:GLY:HA3	2.01	0.91
1:A:2604:LYS:CB	1:A:2610:GLY:HA3	2.01	0.91
1:A:3478:THR:HA	1:A:3483:ASP:HA	1.52	0.91
1:A:3899:ASP:CA	1:A:3900:ILE:N	2.33	0.91
1:B:2431:ALA:N	1:B:2432:LEU:HA	1.86	0.91
1:A:1842:GLY:HA2	1:A:1891:HIS:CA	2.01	0.91
1:A:1984:ILE:CB	1:A:1985:SER:CA	2.47	0.91
1:A:1827:ASP:CB	1:A:1828:TYR:HA	2.00	0.90
1:B:2105:ASP:O	1:B:2157:ASP:CB	2.18	0.90
1:B:2378:VAL:CA	1:B:2379:SER:CB	2.49	0.90
1:A:1530:GLN:O	1:A:1531:ARG:C	2.02	0.90
1:A:2105:ASP:O	1:A:2157:ASP:CB	2.18	0.90
1:A:1814:GLY:HA3	1:A:1815:ARG:N	1.85	0.90
1:A:1364:GLU:HA	2:T:216:PRO:CB	2.01	0.90
1:A:3807:SER:CA	1:A:3808:LYS:C	2.45	0.90
1:A:2726:GLU:CB	1:A:2727:GLU:HA	1.99	0.90
1:A:3453:GLN:CA	1:A:3454:ASP:CB	2.49	0.90
1:A:3890:GLN:N	1:A:3891:ARG:C	2.28	0.90
1:B:1842:GLY:HA2	1:B:1891:HIS:CA	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2107:LYS:O	1:B:2108:VAL:CB	2.15	0.90
1:B:1941:ASP:C	1:B:1942:SER:CA	2.44	0.90
1:A:1624:ARG:CB	1:A:1647:ALA:HB3	2.02	0.89
1:B:3457:PHE:O	1:B:3458:PHE:C	2.12	0.89
1:B:1986:GLU:C	1:B:1987:PHE:CA	2.46	0.89
1:B:2003:LEU:O	1:B:2004:PRO:C	2.02	0.89
1:B:3890:GLN:N	1:B:3891:ARG:C	2.28	0.89
1:A:2378:VAL:CA	1:A:2379:SER:CB	2.49	0.89
1:A:3737:THR:CA	1:A:3738:VAL:CB	2.50	0.89
1:A:1843:ALA:HB3	1:A:1893:ALA:H	1.11	0.89
1:A:3738:VAL:HA	1:A:3739:ASP:CB	2.01	0.89
1:B:2107:LYS:N	1:B:2503:VAL:O	2.06	0.89
1:B:1827:ASP:CB	1:B:1828:TYR:HA	2.00	0.89
1:A:2107:LYS:N	1:A:2503:VAL:O	2.06	0.89
1:A:3807:SER:N	1:A:3809:GLU:H	1.70	0.89
1:B:1624:ARG:CB	1:B:1647:ALA:HB3	2.02	0.89
1:B:3430:SER:CB	1:B:3453:GLN:CB	2.51	0.89
1:B:3737:THR:CA	1:B:3738:VAL:CB	2.50	0.89
1:A:1578:PHE:CB	1:A:1616:LYS:CB	2.51	0.89
1:A:1986:GLU:C	1:A:1987:PHE:CA	2.46	0.89
1:B:3666:ALA:HB1	1:B:3668:ARG:N	1.88	0.89
1:A:2431:ALA:N	1:A:2432:LEU:HA	1.86	0.89
1:B:1920:SER:CB	1:B:3998:ILE:CA	2.51	0.89
1:A:2378:VAL:CB	1:A:2379:SER:CA	2.46	0.89
1:A:2434:ASN:CB	1:A:2435:SER:CA	2.50	0.89
1:A:3430:SER:CB	1:A:3453:GLN:CB	2.51	0.89
1:B:1497:ILE:O	1:B:1498:GLU:C	2.15	0.88
1:A:1632:ASP:CB	1:A:1633:GLY:HA2	2.03	0.88
1:A:3457:PHE:O	1:A:3460:PRO:N	2.06	0.88
1:B:2434:ASN:CB	1:B:2435:SER:CA	2.50	0.88
1:B:4004:LEU:O	1:B:4008:ALA:N	2.06	0.88
1:A:1840:GLN:CB	1:A:1889:SER:CB	2.52	0.88
1:B:3807:SER:N	1:B:3809:GLU:H	1.70	0.88
1:B:1840:GLN:CB	1:B:1889:SER:CB	2.51	0.88
1:B:2600:TYR:HA	1:B:2613:SER:CB	2.04	0.88
1:A:3457:PHE:O	1:A:3459:ASP:N	2.07	0.88
1:B:1578:PHE:CB	1:B:1616:LYS:CB	2.51	0.88
1:B:3666:ALA:HA	1:B:3668:ARG:H	0.73	0.88
1:B:3886:ALA:O	1:B:3890:GLN:CB	2.21	0.88
1:A:1787:HIS:CB	1:A:3992:ILE:CB	2.51	0.88
1:B:1787:HIS:CB	1:B:3992:ILE:CB	2.51	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1843:ALA:HB3	1:B:1893:ALA:H	1.11	0.88
1:B:2098:ALA:HB1	1:B:2149:ARG:H	1.39	0.88
1:A:1920:SER:CB	1:A:3998:ILE:CA	2.51	0.88
1:A:3336:HIS:H	1:A:3337:LEU:HA	1.38	0.88
1:A:3666:ALA:HB1	1:A:3668:ARG:N	1.88	0.88
1:B:2092:ALA:HB1	1:B:2098:ALA:H	1.36	0.88
1:B:3421:TYR:CB	1:B:3422:TYR:C	2.47	0.88
1:A:2600:TYR:HA	1:A:2613:SER:CB	2.04	0.88
1:B:3457:PHE:O	1:B:3460:PRO:N	2.06	0.88
1:B:3901:PRO:CB	1:B:3902:GLY:HA2	2.04	0.88
1:A:2188:PRO:CB	1:A:2189:ASN:O	2.21	0.88
1:A:3457:PHE:O	1:A:3458:PHE:C	2.12	0.88
1:A:3666:ALA:HA	1:A:3668:ARG:H	0.73	0.88
1:A:3886:ALA:O	1:A:3890:GLN:CB	2.21	0.88
1:B:1632:ASP:CB	1:B:1633:GLY:HA2	2.03	0.87
1:B:2188:PRO:CB	1:B:2189:ASN:O	2.21	0.87
1:B:3336:HIS:O	1:B:3517:HIS:N	2.07	0.87
1:A:2098:ALA:HB1	1:A:2149:ARG:H	1.39	0.87
1:B:2430:ASN:C	1:B:2432:LEU:HA	2.00	0.87
1:A:2155:ASP:CB	1:A:2156:SER:CA	2.52	0.87
1:A:3815:PRO:O	1:A:3842:GLN:O	1.91	0.87
1:B:2366:LEU:CB	1:B:2367:SER:CA	2.52	0.87
1:B:2371:PHE:N	1:B:2372:CYS:CB	2.36	0.87
1:B:3457:PHE:O	1:B:3459:ASP:N	2.07	0.87
1:A:2371:PHE:N	1:A:2372:CYS:CB	2.36	0.87
1:A:3421:TYR:CB	1:A:3422:TYR:C	2.47	0.87
1:B:2153:VAL:O	1:B:2195:GLU:N	2.07	0.87
1:A:2366:LEU:CB	1:A:2367:SER:CA	2.52	0.87
1:A:4004:LEU:O	1:A:4008:ALA:N	2.06	0.87
1:A:2092:ALA:HB1	1:A:2098:ALA:H	1.36	0.87
1:A:3336:HIS:O	1:A:3517:HIS:N	2.07	0.87
1:B:2539:THR:O	1:B:2541:PRO:N	2.08	0.87
1:A:3901:PRO:CB	1:A:3902:GLY:HA2	2.04	0.87
1:B:3815:PRO:O	1:B:3842:GLN:O	1.91	0.87
1:B:3807:SER:CA	1:B:3808:LYS:C	2.45	0.86
1:B:3335:GLY:C	1:B:3337:LEU:HA	1.99	0.86
1:A:3335:GLY:C	1:A:3337:LEU:HA	1.99	0.86
1:B:3666:ALA:HA	1:B:3667:ALA:HB3	1.55	0.86
1:B:3990:ALA:O	1:B:3993:VAL:N	2.06	0.86
1:B:2154:PHE:CA	1:B:2195:GLU:CB	2.54	0.86
1:B:2155:ASP:CB	1:B:2156:SER:CA	2.53	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2153:VAL:O	1:A:2195:GLU:N	2.07	0.86
1:A:1932:MET:C	1:A:1946:ALA:HB2	2.01	0.85
1:A:2539:THR:O	1:A:2541:PRO:N	2.08	0.85
1:A:4034:LEU:O	1:A:4035:GLN:C	2.18	0.85
1:A:2430:ASN:C	1:A:2432:LEU:HA	2.00	0.85
1:A:2778:GLY:O	1:A:2812:ARG:CB	2.24	0.85
1:B:1691:SER:CB	1:B:1692:ASP:CA	2.54	0.85
1:B:1788:GLN:C	1:B:1790:TYR:N	2.29	0.85
1:B:2778:GLY:O	1:B:2812:ARG:CB	2.24	0.85
1:A:2159:ASP:C	1:A:2161:GLU:N	2.30	0.85
1:B:3754:LYS:C	1:B:3755:SER:C	2.45	0.85
1:A:3666:ALA:HB2	1:A:3668:ARG:CA	2.03	0.85
1:B:2154:PHE:HA	1:B:2195:GLU:CB	2.06	0.85
1:B:2159:ASP:C	1:B:2161:GLU:N	2.30	0.85
1:A:2686:LEU:H	1:A:2687:GLY:HA2	1.41	0.85
1:B:4034:LEU:O	1:B:4035:GLN:C	2.18	0.85
1:A:2154:PHE:CA	1:A:2195:GLU:CB	2.54	0.85
1:A:3499:CYS:O	1:A:3501:PRO:CB	2.24	0.85
1:B:2092:ALA:CB	1:B:2098:ALA:N	2.37	0.85
1:B:2372:CYS:HA	1:B:2373:SER:CB	2.06	0.85
1:A:2154:PHE:HA	1:A:2195:GLU:CA	2.06	0.85
1:B:2430:ASN:C	1:B:2432:LEU:CB	2.49	0.85
1:A:2154:PHE:HA	1:A:2195:GLU:CB	2.06	0.85
1:A:2206:THR:C	1:A:2209:ARG:O	2.19	0.85
1:A:2369:SER:CB	1:A:2372:CYS:O	2.25	0.85
1:B:2107:LYS:O	1:B:2504:LEU:CA	2.25	0.85
1:B:2154:PHE:HA	1:B:2195:GLU:CA	2.06	0.85
1:A:3851:VAL:O	1:A:3855:LEU:CB	2.25	0.85
1:A:3890:GLN:N	1:A:3891:ARG:CA	2.39	0.85
1:B:2369:SER:CB	1:B:2372:CYS:O	2.25	0.85
1:B:1932:MET:C	1:B:1946:ALA:HB2	2.01	0.85
1:B:2206:THR:C	1:B:2209:ARG:O	2.19	0.85
1:A:3754:LYS:C	1:A:3755:SER:C	2.45	0.84
1:B:2154:PHE:HA	1:B:2195:GLU:HA	1.59	0.84
1:A:1497:ILE:O	1:A:1498:GLU:C	2.15	0.84
1:A:3666:ALA:HA	1:A:3667:ALA:HB3	1.55	0.84
1:B:3851:VAL:O	1:B:3855:LEU:CB	2.25	0.84
1:A:2154:PHE:HA	1:A:2195:GLU:HA	1.59	0.84
1:A:2378:VAL:CB	1:A:2379:SER:HA	2.07	0.84
1:A:3503:GLY:O	1:A:3506:PRO:N	2.10	0.84
1:B:2686:LEU:H	1:B:2687:GLY:HA2	1.41	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1691:SER:CB	1:A:1692:ASP:CA	2.55	0.84
1:A:2430:ASN:C	1:A:2432:LEU:CB	2.49	0.84
1:B:2117:SER:C	1:B:2129:LEU:CB	2.51	0.84
1:B:2378:VAL:CB	1:B:2379:SER:HA	2.07	0.84
1:B:3807:SER:N	1:B:3809:GLU:N	2.25	0.84
1:A:2107:LYS:O	1:A:2504:LEU:CA	2.25	0.84
1:A:2680:TYR:N	1:A:2681:LEU:HA	1.93	0.84
1:A:3739:ASP:N	1:A:3740:THR:CB	2.40	0.84
1:B:3452:ILE:C	1:B:3454:ASP:CB	2.51	0.84
1:B:1801:GLY:O	1:B:1802:LYS:C	2.16	0.84
1:B:3499:CYS:O	1:B:3501:PRO:CB	2.24	0.84
1:B:3739:ASP:N	1:B:3740:THR:CB	2.40	0.84
1:B:2171:ASP:CB	1:B:2184:LEU:O	2.26	0.84
1:B:1942:SER:O	1:B:1945:LEU:CA	2.26	0.84
2:S:32:TYR:C	2:S:32:TYR:CA	2.51	0.83
1:A:2171:ASP:CB	1:A:2184:LEU:O	2.26	0.83
1:B:3878:HIS:CA	1:B:3879:LEU:C	2.49	0.83
1:A:2396:ASP:O	1:A:2399:LYS:N	2.11	0.83
1:B:2117:SER:CA	1:B:2129:LEU:CB	2.57	0.83
1:A:1788:GLN:C	1:A:1790:TYR:N	2.29	0.83
1:A:1942:SER:O	1:A:1945:LEU:CA	2.26	0.83
1:A:2003:LEU:O	1:A:2004:PRO:C	2.02	0.83
1:A:3452:ILE:C	1:A:3454:ASP:CB	2.51	0.83
1:A:3476:ARG:HA	1:A:3485:GLU:CB	2.09	0.83
1:B:3476:ARG:HA	1:B:3485:GLU:CB	2.09	0.83
1:A:1364:GLU:C	2:T:216:PRO:C	2.46	0.83
1:A:3878:HIS:CA	1:A:3879:LEU:C	2.50	0.83
1:A:3990:ALA:O	1:A:3993:VAL:N	2.06	0.83
1:B:3890:GLN:N	1:B:3891:ARG:CA	2.39	0.83
1:A:2600:TYR:O	1:A:2610:GLY:HA2	1.79	0.83
1:A:2785:LYS:C	1:A:3458:PHE:CA	2.19	0.83
1:A:3807:SER:N	1:A:3809:GLU:N	2.25	0.83
1:B:3336:HIS:H	1:B:3337:LEU:HA	1.38	0.83
1:B:3503:GLY:O	1:B:3506:PRO:N	2.10	0.83
1:A:2117:SER:C	1:A:2129:LEU:CB	2.51	0.82
1:A:2117:SER:CA	1:A:2129:LEU:CB	2.57	0.82
1:A:2372:CYS:HA	1:A:2373:SER:CB	2.06	0.82
1:B:1636:ILE:O	1:B:1639:VAL:N	2.12	0.82
1:B:2396:ASP:O	1:B:2399:LYS:N	2.11	0.82
1:A:1636:ILE:O	1:A:1639:VAL:N	2.12	0.82
1:A:2774:ALA:C	1:A:2775:TRP:CA	2.52	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2441:VAL:HA	1:B:2442:GLY:N	1.94	0.82
1:A:3409:ASP:C	1:A:3411:SER:HA	2.04	0.82
1:B:2006:LEU:CB	1:B:2007:GLY:C	2.53	0.82
1:B:2600:TYR:O	1:B:2610:GLY:HA2	1.79	0.82
1:A:2092:ALA:CB	1:A:2098:ALA:N	2.37	0.82
1:B:2774:ALA:C	1:B:2775:TRP:CA	2.52	0.82
1:B:1530:GLN:O	1:B:1531:ARG:O	1.97	0.82
1:B:2396:ASP:O	1:B:2397:THR:C	2.21	0.82
1:B:2680:TYR:N	1:B:2681:LEU:HA	1.93	0.82
1:B:3409:ASP:C	1:B:3411:SER:HA	2.04	0.82
1:A:2709:LYS:CA	1:A:2710:THR:N	2.43	0.82
1:A:1633:GLY:H	1:A:1635:ASP:CB	1.92	0.82
1:A:2092:ALA:HB1	1:A:2097:HIS:C	2.05	0.82
1:A:2441:VAL:HA	1:A:2442:GLY:N	1.94	0.82
1:B:1631:LYS:O	1:B:1635:ASP:CB	2.28	0.81
1:B:3861:GLU:C	1:B:3863:LYS:H	1.88	0.81
1:A:3432:LEU:CB	1:A:3457:PHE:N	2.11	0.81
1:A:1530:GLN:O	1:A:1531:ARG:O	1.97	0.81
1:B:2092:ALA:HB1	1:B:2097:HIS:C	2.05	0.81
1:A:1631:LYS:O	1:A:1635:ASP:CB	2.28	0.81
1:A:2006:LEU:CB	1:A:2007:GLY:C	2.53	0.81
1:B:2709:LYS:CA	1:B:2710:THR:N	2.43	0.81
1:A:4046:THR:O	1:A:4048:ILE:CB	2.29	0.81
1:B:1987:PHE:O	1:B:1988:GLY:C	2.22	0.81
1:B:3889:LEU:N	1:B:3890:GLN:CB	2.44	0.81
1:A:2396:ASP:O	1:A:2397:THR:C	2.21	0.80
1:B:1550:GLY:HA2	1:B:1551:SER:O	1.81	0.80
1:B:1814:GLY:C	1:B:1815:ARG:O	2.24	0.80
1:B:3713:GLU:CB	1:B:3714:GLN:C	2.54	0.80
1:B:3789:ALA:O	1:B:3879:LEU:N	2.13	0.80
1:A:1987:PHE:O	1:A:1988:GLY:C	2.22	0.80
1:A:2154:PHE:C	1:A:2195:GLU:CB	2.55	0.80
1:A:3789:ALA:O	1:A:3879:LEU:N	2.13	0.80
1:A:3889:LEU:N	1:A:3890:GLN:CB	2.44	0.80
1:B:1633:GLY:H	1:B:1635:ASP:CB	1.92	0.80
1:A:1814:GLY:C	1:A:1815:ARG:O	2.24	0.80
1:B:2578:ILE:C	1:B:2580:LYS:H	1.74	0.80
1:B:2160:PRO:O	1:B:2163:VAL:N	2.14	0.80
1:B:3666:ALA:HB1	1:B:3668:ARG:CA	2.07	0.80
1:B:3921:SER:CB	1:B:3922:GLY:O	2.30	0.80
1:A:3861:GLU:C	1:A:3863:LYS:H	1.88	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2154:PHE:C	1:B:2195:GLU:CB	2.55	0.80
1:B:3640:TRP:O	1:B:3641:PHE:CB	2.28	0.80
1:A:3713:GLU:CB	1:A:3714:GLN:C	2.54	0.80
1:A:4033:LEU:O	1:A:4036:GLN:CB	2.30	0.80
1:B:3749:ASP:O	1:B:3752:THR:CB	2.30	0.80
1:A:3360:TYR:CB	1:A:3361:ASP:N	2.45	0.80
1:B:3408:LEU:O	1:B:3518:PHE:N	2.15	0.80
1:B:3737:THR:HA	1:B:3738:VAL:CB	2.12	0.80
1:B:3739:ASP:O	1:B:3743:ASP:N	2.15	0.80
1:A:3739:ASP:O	1:A:3743:ASP:N	2.15	0.80
1:A:2172:ASP:O	1:A:2183:ARG:CA	2.30	0.79
1:A:2434:ASN:CA	1:A:2435:SER:O	2.30	0.79
1:A:2581:LEU:CB	1:A:2582:VAL:HA	2.11	0.79
1:A:3640:TRP:O	1:A:3641:PHE:CB	2.28	0.79
1:A:3666:ALA:HB1	1:A:3668:ARG:CA	2.07	0.79
1:B:3360:TYR:CB	1:B:3361:ASP:N	2.45	0.79
1:B:3900:ILE:CB	1:B:3901:PRO:CA	2.60	0.79
1:A:3737:THR:HA	1:A:3738:VAL:CB	2.12	0.79
1:A:3478:THR:CB	1:A:3483:ASP:CB	2.61	0.79
1:B:3886:ALA:C	1:B:3890:GLN:O	2.24	0.79
1:B:4033:LEU:O	1:B:4036:GLN:CB	2.30	0.79
1:A:3900:ILE:CB	1:A:3901:PRO:CA	2.60	0.79
1:B:2430:ASN:C	1:B:2432:LEU:CA	2.56	0.79
1:B:2434:ASN:CA	1:B:2435:SER:O	2.30	0.79
1:B:3475:ASN:O	1:B:3485:GLU:CB	2.30	0.79
1:B:4046:THR:O	1:B:4048:ILE:CB	2.29	0.79
1:A:2430:ASN:C	1:A:2432:LEU:CA	2.56	0.79
2:S:32:TYR:CA	2:S:32:TYR:N	2.44	0.79
1:B:2155:ASP:CB	1:B:2157:ASP:N	2.46	0.79
1:B:2172:ASP:O	1:B:2183:ARG:CA	2.30	0.79
1:A:2103:VAL:CB	1:A:2104:ILE:CB	2.61	0.79
1:A:2347:GLY:CA	1:A:2348:HIS:CB	2.56	0.79
1:B:1848:ASP:N	1:B:1849:GLU:CA	2.46	0.79
1:B:2347:GLY:CA	1:B:2348:HIS:CB	2.56	0.79
1:A:1747:VAL:CB	1:A:1752:SER:CB	2.60	0.79
1:A:2160:PRO:O	1:A:2163:VAL:N	2.14	0.79
1:A:2392:ILE:O	1:A:2393:PRO:CB	2.31	0.79
1:A:2603:CYS:CB	1:A:2609:THR:CB	2.61	0.79
1:A:3921:SER:CB	1:A:3922:GLY:O	2.30	0.79
1:A:2155:ASP:CB	1:A:2157:ASP:N	2.46	0.79
1:A:3886:ALA:C	1:A:3890:GLN:O	2.24	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1747:VAL:CB	1:B:1752:SER:CB	2.60	0.79
1:A:2653:TRP:O	1:A:2656:PHE:CA	2.31	0.78
1:A:2436:SER:O	1:A:2437:LEU:CB	2.29	0.78
1:B:1872:LEU:O	1:B:1875:GLY:N	2.17	0.78
1:B:2392:ILE:O	1:B:2393:PRO:CB	2.31	0.78
1:B:2653:TRP:O	1:B:2656:PHE:CA	2.31	0.78
1:A:3815:PRO:O	1:A:3843:ASN:CB	2.32	0.78
1:B:2382:ALA:HB1	1:B:2386:MET:CB	2.12	0.78
1:A:1881:LEU:HA	1:A:1885:GLU:O	1.83	0.78
1:A:3475:ASN:O	1:A:3485:GLU:CB	2.30	0.78
1:A:3485:GLU:O	1:A:3486:VAL:CB	2.32	0.78
1:A:3749:ASP:O	1:A:3752:THR:CB	2.30	0.78
1:A:1872:LEU:O	1:A:1875:GLY:N	2.17	0.78
1:A:2514:GLY:HA3	1:A:2520:GLU:O	1.83	0.78
1:A:3408:LEU:O	1:A:3518:PHE:N	2.15	0.78
1:B:3478:THR:CB	1:B:3483:ASP:CB	2.61	0.78
1:A:2105:ASP:CA	1:A:2157:ASP:CB	2.61	0.78
1:A:4010:LEU:O	1:A:4013:HIS:C	2.27	0.78
1:B:2581:LEU:CB	1:B:2582:VAL:HA	2.11	0.78
1:A:1848:ASP:N	1:A:1849:GLU:CA	2.46	0.78
1:A:2444:ASN:O	1:A:2445:PHE:CB	2.31	0.78
1:B:3485:GLU:O	1:B:3486:VAL:CB	2.32	0.78
1:A:2442:GLY:HA2	1:A:2485:PHE:CB	2.13	0.78
1:B:2103:VAL:CB	1:B:2104:ILE:CB	2.61	0.78
1:B:2603:CYS:CB	1:B:2609:THR:CB	2.61	0.78
1:B:2514:GLY:HA3	1:B:2520:GLU:O	1.83	0.78
1:B:4010:LEU:O	1:B:4013:HIS:C	2.27	0.78
1:A:1550:GLY:HA2	1:A:1551:SER:O	1.81	0.78
1:B:1941:ASP:H	1:B:1942:SER:CB	1.96	0.78
1:A:1941:ASP:H	1:A:1942:SER:CB	1.96	0.77
1:A:3452:ILE:O	1:A:3453:GLN:C	2.27	0.77
1:A:3806:ALA:O	1:A:3807:SER:CB	2.31	0.77
1:B:2140:ASP:O	1:B:2142:THR:N	2.18	0.77
1:B:3666:ALA:CB	1:B:3669:THR:H	1.91	0.77
1:B:2442:GLY:HA2	1:B:2485:PHE:CB	2.13	0.77
1:A:2140:ASP:O	1:A:2142:THR:N	2.18	0.77
1:B:2386:MET:O	1:B:2390:ILE:CB	2.33	0.77
1:B:2432:LEU:O	1:B:2433:ARG:CB	2.29	0.77
1:B:2542:GLY:O	1:B:2543:ARG:CB	2.33	0.77
1:B:3666:ALA:HB1	1:B:3668:ARG:C	2.10	0.77
1:A:1932:MET:C	1:A:1946:ALA:CB	2.57	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2542:GLY:O	1:A:2543:ARG:CB	2.33	0.77
1:A:2604:LYS:N	1:A:2610:GLY:N	2.32	0.77
1:A:3360:TYR:CA	1:A:3361:ASP:N	2.47	0.77
1:B:1881:LEU:HA	1:B:1885:GLU:O	1.83	0.77
1:B:2153:VAL:O	1:B:2195:GLU:HA	1.82	0.77
1:A:2105:ASP:O	1:A:2156:SER:O	2.03	0.77
1:A:2153:VAL:O	1:A:2195:GLU:HA	1.82	0.77
1:A:2382:ALA:HB1	1:A:2386:MET:CB	2.12	0.77
1:A:2386:MET:O	1:A:2390:ILE:CB	2.33	0.77
1:A:3991:THR:O	1:A:3992:ILE:C	2.21	0.77
1:A:4027:VAL:O	1:A:4029:ILE:CB	2.33	0.77
1:B:2444:ASN:O	1:B:2445:PHE:CB	2.30	0.77
1:B:2604:LYS:N	1:B:2610:GLY:N	2.32	0.77
1:B:3360:TYR:CA	1:B:3361:ASP:N	2.47	0.77
1:B:3806:ALA:O	1:B:3807:SER:CB	2.32	0.77
1:A:2188:PRO:CB	1:A:2189:ASN:CA	2.63	0.77
1:A:3666:ALA:HB1	1:A:3668:ARG:C	2.10	0.77
1:B:3815:PRO:O	1:B:3843:ASN:CB	2.32	0.77
1:B:4027:VAL:O	1:B:4029:ILE:CB	2.33	0.77
1:A:1801:GLY:O	1:A:1802:LYS:C	2.16	0.77
1:B:2105:ASP:CA	1:B:2157:ASP:CB	2.61	0.77
1:B:3901:PRO:CB	1:B:3902:GLY:CA	2.63	0.77
1:A:1627:LEU:O	1:A:1631:LYS:CB	2.33	0.77
1:A:2172:ASP:O	1:A:2183:ARG:CB	2.33	0.77
1:B:3915:PHE:O	1:B:3916:PHE:C	2.25	0.77
1:B:2524:VAL:O	1:B:2525:THR:CB	2.33	0.76
1:A:1532:ARG:O	1:A:1607:TRP:HA	1.85	0.76
1:B:1932:MET:C	1:B:1946:ALA:CB	2.57	0.76
1:B:1532:ARG:O	1:B:1607:TRP:HA	1.85	0.76
1:B:2105:ASP:O	1:B:2156:SER:O	2.03	0.76
1:B:2188:PRO:CB	1:B:2189:ASN:CA	2.63	0.76
1:A:3877:CYS:HA	1:A:3878:HIS:CB	2.16	0.76
1:A:3915:PHE:O	1:A:3916:PHE:C	2.25	0.76
1:A:2372:CYS:C	1:A:2374:GLU:N	2.40	0.76
1:B:2369:SER:O	1:B:2372:CYS:CB	2.32	0.76
1:A:2843:LEU:HA	1:A:2844:PHE:CB	2.15	0.76
1:B:1627:LEU:O	1:B:1631:LYS:CB	2.33	0.76
1:B:2172:ASP:O	1:B:2183:ARG:CB	2.33	0.76
1:B:3404:VAL:O	1:B:3495:PHE:CA	2.34	0.76
1:A:1364:GLU:O	2:T:216:PRO:CB	2.34	0.76
1:A:2369:SER:O	1:A:2372:CYS:CB	2.32	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3890:GLN:N	1:B:3891:ARG:HA	1.98	0.76
1:B:3899:ASP:C	1:B:3900:ILE:CA	2.58	0.76
1:A:1747:VAL:HA	1:A:1752:SER:HA	1.67	0.76
1:B:2374:GLU:O	1:B:2375:ILE:C	2.27	0.76
1:B:2436:SER:O	1:B:2437:LEU:CB	2.29	0.76
1:A:1466:GLN:CB	1:A:1469:LEU:CB	2.63	0.75
1:A:2374:GLU:O	1:A:2375:ILE:C	2.27	0.75
1:B:1466:GLN:CB	1:B:1469:LEU:CB	2.63	0.75
1:B:3452:ILE:O	1:B:3453:GLN:C	2.27	0.75
1:A:2006:LEU:CB	1:A:2008:ASP:N	2.49	0.75
1:A:2328:GLY:HA3	1:A:2329:ASP:CB	2.16	0.75
1:A:2432:LEU:O	1:A:2433:ARG:CB	2.29	0.75
1:A:3901:PRO:CB	1:A:3902:GLY:CA	2.63	0.75
1:B:2006:LEU:CB	1:B:2008:ASP:N	2.49	0.75
1:B:2108:VAL:CB	1:B:2504:LEU:CB	2.64	0.75
1:A:2108:VAL:CB	1:A:2504:LEU:CB	2.64	0.75
1:A:3478:THR:O	1:A:3479:VAL:CB	2.34	0.75
1:A:3665:ARG:O	1:A:3667:ALA:CB	2.32	0.75
1:B:3501:PRO:O	1:B:3502:SER:CB	2.35	0.75
1:A:3404:VAL:O	1:A:3495:PHE:CA	2.34	0.75
1:A:2524:VAL:O	1:A:2525:THR:CB	2.33	0.75
1:A:3899:ASP:C	1:A:3900:ILE:CA	2.58	0.75
1:B:1550:GLY:CA	1:B:1551:SER:C	2.50	0.75
1:B:2640:THR:O	1:B:2644:LEU:CB	2.35	0.75
1:B:3991:THR:O	1:B:3992:ILE:C	2.21	0.75
1:B:2328:GLY:HA3	1:B:2329:ASP:CB	2.16	0.75
1:B:2785:LYS:C	1:B:3458:PHE:CB	2.56	0.75
1:B:3877:CYS:HA	1:B:3878:HIS:CB	2.16	0.75
1:A:1932:MET:CA	1:A:1946:ALA:CB	2.64	0.75
1:A:2153:VAL:C	1:A:2195:GLU:CB	2.60	0.75
1:A:2640:THR:O	1:A:2644:LEU:CB	2.35	0.75
1:A:1814:GLY:HA3	1:A:1815:ARG:CA	2.17	0.74
1:B:1932:MET:CA	1:B:1946:ALA:CB	2.64	0.74
1:B:2411:LYS:HA	1:B:2554:ALA:O	1.86	0.74
1:A:3890:GLN:N	1:A:3891:ARG:HA	1.98	0.74
1:B:3478:THR:O	1:B:3479:VAL:CB	2.34	0.74
1:A:2411:LYS:HA	1:A:2554:ALA:O	1.86	0.74
1:B:1747:VAL:HA	1:B:1752:SER:HA	1.68	0.74
1:A:2002:ILE:C	1:A:2212:LEU:O	2.31	0.74
1:A:3501:PRO:O	1:A:3502:SER:CB	2.35	0.74
1:B:2002:ILE:C	1:B:2212:LEU:O	2.31	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2173:ASN:HA	1:B:2182:GLU:O	1.88	0.74
1:B:3419:SER:O	1:B:3421:TYR:N	2.21	0.74
1:A:1843:ALA:CB	1:A:1893:ALA:H	1.69	0.74
2:S:32:TYR:C	2:S:32:TYR:N	2.46	0.74
1:A:3419:SER:O	1:A:3421:TYR:N	2.21	0.73
1:B:1627:LEU:CB	1:B:1643:TYR:CB	2.66	0.73
1:B:1932:MET:CB	1:B:1946:ALA:HA	2.18	0.73
1:A:2873:LEU:C	1:A:2875:ASP:N	2.47	0.73
1:A:3370:LEU:O	1:A:3373:LEU:N	2.22	0.73
1:B:2153:VAL:C	1:B:2195:GLU:CB	2.60	0.73
1:B:2843:LEU:HA	1:B:2844:PHE:CB	2.15	0.73
1:B:3370:LEU:O	1:B:3371:VAL:C	2.32	0.73
1:A:1627:LEU:CB	1:A:1643:TYR:CB	2.66	0.73
1:B:2209:ARG:CB	1:B:2210:CYS:CB	2.67	0.73
1:B:2372:CYS:C	1:B:2374:GLU:N	2.40	0.73
1:B:3370:LEU:O	1:B:3373:LEU:N	2.22	0.73
1:A:2173:ASN:HA	1:A:2182:GLU:O	1.88	0.73
1:A:2209:ARG:CB	1:A:2210:CYS:CB	2.66	0.73
1:A:2657:ALA:O	1:A:2914:ILE:CB	2.37	0.73
1:B:2329:ASP:O	1:B:2330:SER:O	2.05	0.73
1:B:2657:ALA:O	1:B:2914:ILE:CB	2.37	0.73
1:A:3370:LEU:O	1:A:3371:VAL:C	2.32	0.72
1:B:1843:ALA:CB	1:B:1893:ALA:H	1.69	0.72
1:A:2430:ASN:O	1:A:2432:LEU:CB	2.38	0.72
1:B:1734:PHE:O	1:B:1755:LEU:O	2.07	0.72
1:A:1497:ILE:C	1:A:1499:VAL:N	2.45	0.72
1:A:1747:VAL:O	1:A:1748:PHE:CB	2.38	0.72
1:A:3877:CYS:CB	1:A:3879:LEU:N	2.52	0.72
1:B:1735:TYR:C	1:B:1756:LEU:N	2.47	0.72
1:A:1735:TYR:C	1:A:1756:LEU:N	2.47	0.72
1:A:2785:LYS:C	1:A:3458:PHE:CB	2.56	0.72
1:B:2301:TRP:O	1:B:2302:PHE:O	2.07	0.72
1:A:2329:ASP:O	1:A:2330:SER:O	2.05	0.72
1:A:3877:CYS:CA	1:A:3878:HIS:CB	2.67	0.72
1:B:2430:ASN:O	1:B:2432:LEU:CB	2.38	0.72
1:A:2539:THR:O	1:A:2540:ASP:C	2.33	0.72
1:A:3503:GLY:O	1:A:3505:ILE:N	2.23	0.72
1:A:3750:TYR:C	1:A:3752:THR:CB	2.62	0.72
1:B:1747:VAL:O	1:B:1748:PHE:CB	2.38	0.72
1:B:1814:GLY:HA3	1:B:1815:ARG:CA	2.17	0.72
1:B:2038:LEU:CB	1:B:2090:ALA:HB2	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2038:LEU:CB	1:A:2090:ALA:HB2	2.19	0.72
1:A:4030:PRO:O	1:A:4031:GLN:C	2.33	0.72
1:B:3877:CYS:CB	1:B:3879:LEU:N	2.52	0.72
1:B:3877:CYS:CA	1:B:3878:HIS:CB	2.67	0.72
1:A:3864:ALA:O	1:A:3865:ALA:HB2	1.90	0.71
1:B:3750:TYR:C	1:B:3752:THR:CB	2.62	0.71
1:B:4001:GLU:O	1:B:4002:LYS:CB	2.38	0.71
1:A:3666:ALA:CB	1:A:3669:THR:H	1.91	0.71
1:B:1872:LEU:C	1:B:1874:VAL:N	2.45	0.71
1:A:1734:PHE:O	1:A:1755:LEU:O	2.07	0.71
1:A:1932:MET:CB	1:A:1946:ALA:HA	2.18	0.71
1:A:2147:ASN:O	1:A:2148:SER:C	2.29	0.71
1:A:2301:TRP:O	1:A:2302:PHE:O	2.07	0.71
1:B:1814:GLY:HA3	1:B:1815:ARG:CB	2.19	0.71
1:B:4030:PRO:O	1:B:4031:GLN:C	2.33	0.71
1:A:1848:ASP:CB	1:A:1850:PHE:N	2.54	0.71
1:A:3687:SER:O	1:A:3689:ALA:N	2.24	0.71
1:A:4001:GLU:O	1:A:4002:LYS:CB	2.38	0.71
1:B:1478:SER:O	1:B:1481:SER:N	2.24	0.71
1:B:1493:LEU:O	1:B:1494:ASP:C	2.34	0.71
1:B:3665:ARG:O	1:B:3667:ALA:CB	2.32	0.71
1:B:3687:SER:O	1:B:3689:ALA:N	2.24	0.71
1:B:3864:ALA:O	1:B:3865:ALA:HB2	1.90	0.71
1:B:2147:ASN:O	1:B:2148:SER:C	2.29	0.70
1:B:2434:ASN:CB	1:B:2435:SER:O	2.39	0.70
1:B:3503:GLY:O	1:B:3505:ILE:N	2.23	0.70
1:A:1814:GLY:HA3	1:A:1815:ARG:CB	2.19	0.70
1:A:1881:LEU:HA	1:A:1886:THR:HA	1.73	0.70
1:A:2616:LEU:H	1:A:2619:PRO:CB	2.04	0.70
1:A:3359:LYS:N	1:A:3360:TYR:CB	2.55	0.70
1:B:2873:LEU:C	1:B:2875:ASP:N	2.47	0.70
1:A:2346:PHE:O	1:A:2348:HIS:CB	2.39	0.70
1:B:1747:VAL:CB	1:B:1752:SER:HA	2.21	0.70
1:B:1848:ASP:CB	1:B:1850:PHE:N	2.54	0.70
1:A:1550:GLY:CA	1:A:1551:SER:C	2.50	0.70
1:A:1747:VAL:CB	1:A:1752:SER:HA	2.21	0.70
1:A:3666:ALA:HA	1:A:3667:ALA:CB	2.15	0.70
1:B:1881:LEU:HA	1:B:1886:THR:HA	1.73	0.70
1:A:1939:PHE:O	1:A:1940:GLU:CB	2.40	0.70
1:B:2301:TRP:C	1:B:2302:PHE:CA	2.64	0.70
1:A:2411:LYS:CB	1:A:2554:ALA:CB	2.62	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2346:PHE:O	1:B:2348:HIS:CB	2.39	0.70
1:B:2616:LEU:H	1:B:2619:PRO:CB	2.04	0.70
1:A:3861:GLU:O	1:A:3862:THR:C	2.34	0.70
1:B:2539:THR:O	1:B:2540:ASP:C	2.33	0.70
1:A:1364:GLU:C	2:T:216:PRO:CA	2.64	0.70
1:A:1872:LEU:C	1:A:1874:VAL:N	2.45	0.70
1:A:2301:TRP:C	1:A:2302:PHE:CA	2.64	0.70
1:B:3478:THR:CB	1:B:3483:ASP:HA	2.21	0.70
1:A:1986:GLU:CA	1:A:1987:PHE:CB	2.70	0.69
1:A:2103:VAL:C	1:A:2105:ASP:H	1.94	0.69
1:A:1916:PHE:O	1:A:1917:ARG:CB	2.39	0.69
1:A:3332:THR:C	1:A:3334:PHE:H	1.99	0.69
1:A:3478:THR:CB	1:A:3483:ASP:HA	2.21	0.69
1:A:3677:LEU:HA	1:A:3680:GLN:CB	2.22	0.69
1:A:1843:ALA:HA	1:A:1844:TRP:O	1.92	0.69
1:A:2434:ASN:CB	1:A:2435:SER:O	2.39	0.69
1:A:3997:LYS:C	1:A:3999:ASP:CB	2.65	0.69
1:B:3332:THR:C	1:B:3334:PHE:H	1.99	0.69
1:B:1823:ASP:HA	1:B:1853:LEU:CB	2.22	0.69
1:B:1843:ALA:HA	1:B:1844:TRP:O	1.92	0.69
1:B:2002:ILE:O	1:B:2212:LEU:O	2.11	0.69
1:B:3359:LYS:N	1:B:3360:TYR:CB	2.55	0.69
1:B:3677:LEU:HA	1:B:3680:GLN:CB	2.22	0.69
1:A:1478:SER:O	1:A:1481:SER:N	2.24	0.69
1:B:1497:ILE:C	1:B:1499:VAL:N	2.45	0.69
1:B:1960:CYS:HA	1:B:1961:SER:CB	2.23	0.69
1:B:1986:GLU:CA	1:B:1987:PHE:CB	2.70	0.69
1:A:1823:ASP:HA	1:A:1853:LEU:CB	2.22	0.69
1:A:1986:GLU:HA	1:A:1987:PHE:O	1.92	0.69
1:A:4034:LEU:C	1:A:4036:GLN:CB	2.66	0.69
1:B:1843:ALA:HB1	1:B:1893:ALA:O	1.93	0.69
1:B:1986:GLU:HA	1:B:1987:PHE:O	1.92	0.69
1:B:3861:GLU:O	1:B:3862:THR:C	2.34	0.69
1:A:1493:LEU:O	1:A:1494:ASP:C	2.34	0.69
1:B:3997:LYS:C	1:B:3999:ASP:CB	2.65	0.69
1:A:1843:ALA:HB1	1:A:1844:TRP:HA	0.74	0.69
1:A:1960:CYS:HA	1:A:1961:SER:CB	2.23	0.69
1:A:2369:SER:CA	1:A:2372:CYS:CB	2.71	0.68
1:A:2873:LEU:O	1:A:2874:TYR:C	2.35	0.68
1:B:1916:PHE:O	1:B:1917:ARG:CB	2.39	0.68
1:B:4004:LEU:O	1:B:4008:ALA:CB	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1843:ALA:HB1	1:A:1893:ALA:O	1.93	0.68
1:A:1848:ASP:CA	1:A:1849:GLU:C	2.66	0.68
1:A:2346:PHE:CB	1:A:2349:ASP:HA	2.23	0.68
1:B:1939:PHE:O	1:B:1940:GLU:CB	2.40	0.68
1:B:4034:LEU:C	1:B:4036:GLN:CB	2.66	0.68
1:A:4004:LEU:O	1:A:4008:ALA:CB	2.41	0.68
1:B:2004:PRO:N	1:B:2214:TRP:CB	2.56	0.68
1:B:2419:PRO:O	1:B:2420:PRO:CB	2.41	0.68
1:A:2004:PRO:N	1:A:2214:TRP:CB	2.56	0.68
1:A:2419:PRO:O	1:A:2420:PRO:CB	2.42	0.68
1:B:1633:GLY:N	1:B:1634:THR:CB	2.51	0.68
1:B:1932:MET:CA	1:B:1946:ALA:HB1	2.19	0.68
1:B:2369:SER:CA	1:B:2372:CYS:CB	2.71	0.68
1:B:2411:LYS:CB	1:B:2554:ALA:CB	2.62	0.68
1:B:2912:CYS:O	1:B:2913:ILE:CB	2.42	0.68
1:A:1844:TRP:CB	1:A:1893:ALA:O	2.41	0.68
1:A:2002:ILE:O	1:A:2212:LEU:O	2.11	0.68
1:A:2159:ASP:O	1:A:2160:PRO:C	2.35	0.68
1:B:2103:VAL:C	1:B:2105:ASP:H	1.94	0.68
1:B:3484:HIS:O	1:B:3485:GLU:CB	2.42	0.68
1:A:1585:VAL:O	1:A:1586:GLU:CB	2.42	0.68
1:A:3484:HIS:O	1:A:3485:GLU:CB	2.42	0.68
1:B:1843:ALA:HB1	1:B:1844:TRP:HA	0.74	0.68
1:B:2390:ILE:O	1:B:2391:VAL:C	2.37	0.68
1:A:2912:CYS:O	1:A:2913:ILE:CB	2.42	0.67
1:B:1844:TRP:CB	1:B:1893:ALA:O	2.41	0.67
1:A:1633:GLY:N	1:A:1634:THR:CB	2.51	0.67
1:B:1872:LEU:O	1:B:1874:VAL:N	2.27	0.67
1:B:2346:PHE:CB	1:B:2349:ASP:HA	2.23	0.67
1:A:2907:ALA:O	1:A:2909:PHE:N	2.28	0.67
1:B:1932:MET:O	1:B:1946:ALA:HB2	1.93	0.67
1:A:2000:ARG:O	1:A:2212:LEU:C	2.38	0.67
1:B:2329:ASP:H	1:B:2333:GLU:CB	2.08	0.67
1:A:1932:MET:O	1:A:1946:ALA:HB2	1.93	0.67
1:A:2329:ASP:H	1:A:2333:GLU:CB	2.08	0.67
1:B:1941:ASP:N	1:B:1942:SER:CB	2.58	0.67
1:B:2873:LEU:O	1:B:2874:TYR:C	2.35	0.67
1:A:1445:TRP:O	1:A:1448:VAL:CB	2.42	0.67
1:A:1872:LEU:O	1:A:1874:VAL:N	2.27	0.67
1:B:2105:ASP:HA	1:B:2154:PHE:C	2.16	0.67
1:B:3410:PRO:O	1:B:3413:HIS:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3890:GLN:CB	1:B:3891:ARG:O	2.43	0.67
1:A:2390:ILE:O	1:A:2391:VAL:C	2.37	0.67
1:A:1631:LYS:O	1:A:1635:ASP:HA	1.95	0.67
1:A:2155:ASP:CB	1:A:2156:SER:C	2.67	0.67
1:A:2195:GLU:O	1:A:2196:THR:C	2.37	0.67
1:A:3890:GLN:CB	1:A:3891:ARG:O	2.43	0.67
1:B:1445:TRP:O	1:B:1448:VAL:CB	2.42	0.67
1:B:1631:LYS:C	1:B:1635:ASP:HA	2.20	0.67
1:B:1848:ASP:CA	1:B:1849:GLU:C	2.66	0.67
1:B:2000:ARG:O	1:B:2212:LEU:C	2.38	0.67
1:B:2155:ASP:CB	1:B:2156:SER:C	2.68	0.67
1:B:2907:ALA:O	1:B:2909:PHE:N	2.28	0.67
1:A:1842:GLY:C	1:A:1892:THR:N	2.53	0.67
1:A:1941:ASP:N	1:A:1942:SER:CB	2.58	0.67
1:B:1842:GLY:C	1:B:1892:THR:N	2.53	0.67
1:B:2686:LEU:N	1:B:2687:GLY:HA2	2.09	0.67
1:A:1631:LYS:C	1:A:1635:ASP:HA	2.20	0.66
1:A:2371:PHE:CB	1:A:2372:CYS:CA	2.72	0.66
1:A:3410:PRO:O	1:A:3413:HIS:N	2.27	0.66
1:B:1631:LYS:O	1:B:1635:ASP:HA	1.95	0.66
1:B:2195:GLU:O	1:B:2196:THR:C	2.37	0.66
1:B:2371:PHE:CB	1:B:2372:CYS:CA	2.72	0.66
1:A:3407:LEU:CB	1:A:3497:HIS:HA	2.26	0.66
1:A:3807:SER:H	1:A:3808:LYS:CB	2.08	0.66
1:A:2616:LEU:O	1:A:2619:PRO:N	2.29	0.66
1:B:2343:ASN:O	1:B:2345:TYR:O	2.14	0.66
1:B:2616:LEU:O	1:B:2619:PRO:N	2.29	0.66
1:A:3748:TRP:O	1:A:3752:THR:CB	2.43	0.66
1:B:1747:VAL:CB	1:B:1751:GLN:O	2.44	0.66
1:B:1844:TRP:HA	1:B:1893:ALA:O	1.94	0.66
1:B:2007:GLY:O	1:B:2011:GLU:CB	2.44	0.66
1:B:2724:CYS:HA	1:B:2726:GLU:H	1.59	0.66
1:B:3807:SER:H	1:B:3808:LYS:CB	2.08	0.66
1:B:1842:GLY:CA	1:B:1891:HIS:HA	2.14	0.66
1:A:1747:VAL:CB	1:A:1751:GLN:O	2.44	0.66
1:A:2724:CYS:HA	1:A:2726:GLU:H	1.59	0.66
1:A:2726:GLU:CB	1:A:2727:GLU:CA	2.73	0.66
1:B:2099:ASN:CB	1:B:2100:VAL:CB	2.74	0.66
1:A:3478:THR:CB	1:A:3482:GLY:O	2.44	0.66
1:A:2786:ILE:CA	1:A:3458:PHE:O	2.35	0.65
1:B:2155:ASP:CB	1:B:2157:ASP:H	2.09	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2435:SER:N	1:A:2479:ILE:CA	2.55	0.65
1:A:3877:CYS:CB	1:A:3878:HIS:CB	2.75	0.65
1:B:1585:VAL:O	1:B:1586:GLU:CB	2.42	0.65
1:B:3407:LEU:CB	1:B:3497:HIS:HA	2.26	0.65
1:B:3748:TRP:O	1:B:3752:THR:CB	2.43	0.65
1:A:2343:ASN:O	1:A:2345:TYR:O	2.14	0.65
1:B:2111:LYS:CB	1:B:2116:GLY:N	2.60	0.65
1:B:2604:LYS:N	1:B:2610:GLY:H	1.95	0.65
1:A:2130:PHE:C	1:A:2132:SER:N	2.54	0.65
1:B:1932:MET:CB	1:B:1946:ALA:C	2.70	0.65
1:B:2435:SER:H	1:B:2479:ILE:CA	2.07	0.65
1:A:2007:GLY:O	1:A:2011:GLU:CB	2.44	0.65
1:B:1848:ASP:CB	1:B:1849:GLU:O	2.44	0.65
1:B:2159:ASP:O	1:B:2160:PRO:C	2.35	0.65
1:A:2111:LYS:CB	1:A:2116:GLY:N	2.60	0.65
1:A:2347:GLY:N	1:A:2348:HIS:CB	2.59	0.65
1:A:2382:ALA:CB	1:A:2386:MET:CB	2.75	0.65
1:A:2604:LYS:N	1:A:2610:GLY:H	1.95	0.65
1:A:2907:ALA:C	1:A:2909:PHE:H	2.04	0.65
1:B:2347:GLY:N	1:B:2348:HIS:CB	2.59	0.65
1:B:3478:THR:CB	1:B:3482:GLY:O	2.44	0.65
1:A:2099:ASN:CB	1:A:2100:VAL:CB	2.74	0.65
1:A:3739:ASP:H	1:A:3740:THR:CB	2.10	0.65
1:A:3889:LEU:N	1:A:3890:GLN:CA	2.59	0.65
1:B:3432:LEU:CB	1:B:3456:GLU:CB	2.74	0.65
1:B:3889:LEU:N	1:B:3890:GLN:CA	2.59	0.65
1:B:1691:SER:CB	1:B:1692:ASP:O	2.45	0.65
1:B:2098:ALA:HB1	1:B:2149:ARG:N	2.12	0.65
1:B:2604:LYS:O	1:B:2608:SER:CB	2.44	0.65
1:B:2726:GLU:CB	1:B:2727:GLU:CA	2.73	0.65
1:B:3877:CYS:CB	1:B:3878:HIS:CB	2.75	0.65
1:A:1691:SER:CB	1:A:1692:ASP:O	2.45	0.65
1:A:1848:ASP:CB	1:A:1849:GLU:O	2.44	0.65
1:A:1872:LEU:O	1:A:1873:GLN:C	2.40	0.65
1:A:1918:GLU:O	1:A:3996:GLY:HA2	1.97	0.65
1:A:2686:LEU:N	1:A:2687:GLY:HA2	2.09	0.65
1:A:4031:GLN:CB	1:A:4032:PRO:C	2.70	0.65
1:B:2130:PHE:C	1:B:2132:SER:N	2.54	0.65
1:B:4031:GLN:CB	1:B:4032:PRO:C	2.70	0.65
1:A:2679:LYS:C	1:A:2681:LEU:HA	2.23	0.65
1:B:1872:LEU:O	1:B:1873:GLN:C	2.40	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1969:GLY:O	1:B:1970:LEU:C	2.37	0.65
1:B:1986:GLU:HA	1:B:1987:PHE:CA	2.27	0.64
1:A:1631:LYS:HA	1:A:1635:ASP:HA	1.78	0.64
1:A:1822:CYS:O	1:A:1824:ASP:N	2.29	0.64
1:A:1844:TRP:HA	1:A:1893:ALA:O	1.94	0.64
1:A:3432:LEU:CB	1:A:3456:GLU:CB	2.74	0.64
1:B:2382:ALA:CB	1:B:2386:MET:CB	2.74	0.64
1:B:2786:ILE:CA	1:B:3458:PHE:O	2.35	0.64
1:A:1986:GLU:HA	1:A:1987:PHE:CA	2.27	0.64
1:A:2155:ASP:CB	1:A:2157:ASP:H	2.09	0.64
1:A:3754:LYS:C	1:A:3755:SER:CA	2.69	0.64
1:B:1636:ILE:O	1:B:1637:GLU:C	2.40	0.64
1:A:2079:GLY:O	1:A:2080:LYS:C	2.40	0.64
1:A:2604:LYS:O	1:A:2608:SER:CB	2.44	0.64
1:B:3332:THR:C	1:B:3334:PHE:N	2.55	0.64
1:B:1636:ILE:O	1:B:1638:VAL:N	2.31	0.64
1:B:2372:CYS:N	1:B:2373:SER:CB	2.61	0.64
1:B:2907:ALA:C	1:B:2909:PHE:H	2.04	0.64
1:A:1932:MET:CB	1:A:1946:ALA:C	2.70	0.64
1:A:3808:LYS:O	1:A:3809:GLU:C	2.41	0.64
1:B:1631:LYS:HA	1:B:1635:ASP:HA	1.78	0.64
1:A:1824:ASP:O	1:A:1826:PHE:O	2.16	0.64
1:B:2435:SER:N	1:B:2479:ILE:CA	2.55	0.64
1:B:1918:GLU:O	1:B:3996:GLY:HA2	1.97	0.64
1:B:1942:SER:C	1:B:1945:LEU:H	2.05	0.64
1:A:2121:ALA:O	1:A:2122:THR:C	2.41	0.64
1:B:1747:VAL:CA	1:B:1752:SER:HA	2.27	0.64
1:B:1822:CYS:O	1:B:1824:ASP:N	2.29	0.64
1:A:1636:ILE:O	1:A:1638:VAL:N	2.31	0.63
1:A:1747:VAL:CA	1:A:1752:SER:HA	2.27	0.63
1:A:2372:CYS:N	1:A:2373:SER:CB	2.61	0.63
1:A:2881:ILE:C	1:A:2883:LYS:N	2.56	0.63
1:B:2679:LYS:C	1:B:2681:LEU:HA	2.22	0.63
1:B:3335:GLY:O	1:B:3337:LEU:HA	1.99	0.63
1:A:3335:GLY:O	1:A:3337:LEU:HA	1.99	0.63
1:B:3808:LYS:O	1:B:3809:GLU:C	2.41	0.63
1:A:3859:VAL:CB	1:A:3888:LEU:HA	2.28	0.63
1:B:1824:ASP:O	1:B:1826:PHE:O	2.16	0.63
1:B:2000:ARG:C	1:B:2212:LEU:H	2.06	0.63
1:B:2376:PRO:O	1:B:2377:SER:C	2.41	0.63
1:B:3754:LYS:C	1:B:3755:SER:CA	2.69	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2188:PRO:CB	1:A:2189:ASN:HA	2.28	0.63
1:B:2459:HIS:C	1:B:2463:ASN:CB	2.71	0.63
1:A:3666:ALA:CA	1:A:3667:ALA:HB3	2.27	0.63
1:A:4064:GLN:CB	1:A:4070:ILE:CB	2.77	0.63
1:B:1632:ASP:CB	1:B:1633:GLY:CA	2.75	0.63
1:A:1942:SER:C	1:A:1945:LEU:H	2.05	0.63
1:A:2708:ASN:CB	1:A:2709:LYS:CB	2.77	0.63
1:A:3332:THR:C	1:A:3334:PHE:N	2.55	0.63
1:B:3336:HIS:H	1:B:3337:LEU:CA	2.03	0.63
1:A:2000:ARG:C	1:A:2212:LEU:H	2.06	0.63
1:A:2603:CYS:CB	1:A:2610:GLY:H	2.12	0.63
1:A:3478:THR:CB	1:A:3483:ASP:CA	2.77	0.63
1:A:3750:TYR:N	1:A:3752:THR:CB	2.62	0.63
1:B:2881:ILE:C	1:B:2883:LYS:N	2.56	0.63
1:B:2079:GLY:O	1:B:2080:LYS:C	2.40	0.63
1:B:2103:VAL:C	1:B:2105:ASP:N	2.56	0.63
1:B:3750:TYR:N	1:B:3752:THR:CB	2.62	0.63
1:B:2188:PRO:CB	1:B:2189:ASN:HA	2.28	0.62
1:A:1636:ILE:O	1:A:1637:GLU:C	2.40	0.62
1:A:2369:SER:C	1:A:2371:PHE:H	2.07	0.62
1:B:3478:THR:CB	1:B:3483:ASP:CA	2.77	0.62
1:A:2459:HIS:C	1:A:2463:ASN:CB	2.71	0.62
1:A:2552:ARG:O	1:A:2553:HIS:C	2.42	0.62
1:B:1747:VAL:CB	1:B:1752:SER:CA	2.77	0.62
1:B:2347:GLY:N	1:B:2348:HIS:C	2.58	0.62
1:B:1849:GLU:CB	1:B:1850:PHE:C	2.73	0.62
1:B:1986:GLU:CA	1:B:1987:PHE:CA	2.77	0.62
1:B:2121:ALA:O	1:B:2122:THR:C	2.41	0.62
1:B:2603:CYS:CB	1:B:2610:GLY:H	2.12	0.62
1:B:2861:ARG:HA	1:B:2868:ASP:CB	2.29	0.62
1:A:1632:ASP:CB	1:A:1633:GLY:CA	2.75	0.62
1:A:1747:VAL:CB	1:A:1752:SER:CA	2.77	0.62
1:A:1849:GLU:CB	1:A:1850:PHE:C	2.73	0.62
1:A:1986:GLU:CA	1:A:1987:PHE:CA	2.77	0.62
1:B:1631:LYS:O	1:B:1636:ILE:HA	2.00	0.62
1:B:1950:VAL:O	1:B:1954:GLU:CB	2.48	0.62
1:B:2708:ASN:CB	1:B:2709:LYS:CB	2.77	0.62
1:A:2098:ALA:HB1	1:A:2149:ARG:N	2.12	0.62
1:A:2123:LEU:O	1:A:2124:GLU:CB	2.47	0.62
1:A:2561:TYR:CB	1:A:2562:PRO:HA	2.30	0.62
1:A:2861:ARG:HA	1:A:2868:ASP:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1753:GLY:O	1:A:1754:TYR:CB	2.48	0.62
1:A:1950:VAL:O	1:A:1954:GLU:CB	2.48	0.62
1:B:1877:SER:O	1:B:1878:HIS:C	2.39	0.62
1:B:2123:LEU:O	1:B:2124:GLU:CB	2.47	0.62
1:A:3751:VAL:CB	1:A:3752:THR:HA	2.29	0.62
1:B:3739:ASP:H	1:B:3740:THR:CB	2.10	0.62
1:B:4064:GLN:CB	1:B:4070:ILE:CB	2.77	0.62
1:A:2105:ASP:HA	1:A:2154:PHE:C	2.16	0.61
1:B:1753:GLY:O	1:B:1754:TYR:CB	2.48	0.61
1:B:2540:ASP:O	1:B:2542:GLY:N	2.33	0.61
1:B:2873:LEU:C	1:B:2875:ASP:H	2.06	0.61
1:A:1364:GLU:CA	2:T:216:PRO:CB	2.67	0.61
1:A:2347:GLY:N	1:A:2348:HIS:C	2.58	0.61
1:A:2881:ILE:C	1:A:2883:LYS:H	2.07	0.61
1:B:1844:TRP:CA	1:B:1845:GLY:N	2.62	0.61
1:A:2376:PRO:O	1:A:2377:SER:C	2.41	0.61
1:B:2881:ILE:C	1:B:2883:LYS:H	2.07	0.61
1:A:3877:CYS:CB	1:A:3878:HIS:CA	2.78	0.61
1:A:2203:THR:O	1:A:2207:ILE:CB	2.48	0.61
1:A:2540:ASP:O	1:A:2542:GLY:N	2.33	0.61
1:A:3410:PRO:N	1:A:3411:SER:HA	2.16	0.61
1:B:2343:ASN:C	1:B:2345:TYR:H	2.09	0.61
1:A:3426:THR:CB	1:A:3427:VAL:N	2.27	0.61
1:B:2552:ARG:O	1:B:2553:HIS:C	2.42	0.61
1:B:3478:THR:CA	1:B:3483:ASP:HA	2.27	0.61
1:B:1840:GLN:HA	1:B:1889:SER:O	2.01	0.61
1:B:2561:TYR:CB	1:B:2562:PRO:HA	2.29	0.61
1:B:3751:VAL:CB	1:B:3752:THR:HA	2.29	0.61
1:A:3478:THR:CA	1:A:3483:ASP:HA	2.27	0.61
1:B:3666:ALA:CA	1:B:3667:ALA:HB3	2.27	0.61
1:A:1840:GLN:HA	1:A:1889:SER:O	2.01	0.61
1:A:2329:ASP:O	1:A:2330:SER:C	2.43	0.61
1:B:1493:LEU:C	1:B:1495:THR:N	2.59	0.61
1:B:2369:SER:C	1:B:2371:PHE:H	2.07	0.61
1:A:2301:TRP:O	1:A:2302:PHE:C	2.44	0.60
1:A:2907:ALA:C	1:A:2909:PHE:N	2.58	0.60
1:A:3503:GLY:O	1:A:3504:ASP:C	2.42	0.60
1:B:2203:THR:O	1:B:2207:ILE:CB	2.48	0.60
1:A:1493:LEU:C	1:A:1495:THR:N	2.59	0.60
1:A:2343:ASN:C	1:A:2345:TYR:H	2.09	0.60
1:B:1466:GLN:N	1:B:1468:PHE:H	1.98	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1966:TYR:O	1:B:1967:HIS:CB	2.49	0.60
1:B:3410:PRO:N	1:B:3411:SER:HA	2.16	0.60
1:B:3821:ASN:O	1:B:3823:ASN:N	2.30	0.60
1:B:3859:VAL:CB	1:B:3888:LEU:HA	2.28	0.60
1:B:3877:CYS:CB	1:B:3878:HIS:CA	2.78	0.60
1:A:1969:GLY:O	1:A:1970:LEU:C	2.37	0.60
1:A:1631:LYS:O	1:A:1636:ILE:HA	2.00	0.60
1:B:2369:SER:O	1:B:2371:PHE:N	2.35	0.60
1:B:3807:SER:H	1:B:3809:GLU:H	1.48	0.60
1:A:1966:TYR:O	1:A:1967:HIS:CB	2.49	0.60
1:B:1827:ASP:CB	1:B:1831:LEU:CB	2.79	0.60
1:B:1941:ASP:CA	1:B:1942:SER:CA	2.79	0.60
1:B:2107:LYS:O	1:B:2504:LEU:HA	2.02	0.60
1:A:1466:GLN:N	1:A:1468:PHE:H	1.98	0.60
1:A:1827:ASP:CB	1:A:1831:LEU:CB	2.80	0.60
1:A:2428:MET:O	1:A:2433:ARG:CB	2.49	0.60
1:A:2459:HIS:CB	1:A:2463:ASN:CB	2.80	0.60
1:B:1466:GLN:CA	1:B:1468:PHE:N	2.64	0.60
1:B:2329:ASP:O	1:B:2330:SER:C	2.43	0.60
1:A:2411:LYS:CA	1:A:2554:ALA:O	2.49	0.60
1:A:1529:ARG:HA	1:A:1532:ARG:CB	2.31	0.60
1:A:1851:ASN:CB	1:A:1897:THR:O	2.50	0.60
1:A:2369:SER:O	1:A:2371:PHE:N	2.34	0.60
1:B:1848:ASP:O	1:B:1851:ASN:CB	2.50	0.60
1:B:2459:HIS:CB	1:B:2463:ASN:CB	2.80	0.60
1:A:2188:PRO:N	1:A:2189:ASN:HA	2.16	0.60
1:A:3376:LYS:O	1:A:3380:LEU:N	2.31	0.60
1:B:1529:ARG:HA	1:B:1532:ARG:CB	2.31	0.60
1:B:1942:SER:O	1:B:1945:LEU:CB	2.50	0.60
1:B:2639:GLN:O	1:B:2640:THR:CB	2.50	0.60
1:A:2155:ASP:CA	1:A:2156:SER:C	2.75	0.60
1:A:2307:ASP:O	1:A:2308:LYS:CB	2.50	0.60
1:A:1827:ASP:CB	1:A:1828:TYR:CA	2.76	0.59
1:A:1848:ASP:O	1:A:1851:ASN:CB	2.50	0.59
1:B:2307:ASP:O	1:B:2308:LYS:CB	2.50	0.59
1:B:2428:MET:O	1:B:2433:ARG:CB	2.49	0.59
1:A:1941:ASP:CA	1:A:1942:SER:CA	2.79	0.59
1:A:1942:SER:O	1:A:1945:LEU:CB	2.50	0.59
1:A:2579:PHE:O	1:A:2580:LYS:CB	2.49	0.59
1:B:2301:TRP:O	1:B:2302:PHE:C	2.44	0.59
1:A:1466:GLN:CA	1:A:1468:PHE:N	2.64	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3821:ASN:O	1:A:3823:ASN:N	2.30	0.59
1:B:2411:LYS:CA	1:B:2554:ALA:O	2.49	0.59
1:B:4061:SER:C	1:B:4066:PRO:HA	2.18	0.59
1:A:1984:ILE:CB	1:A:1985:SER:CB	2.81	0.59
1:A:2429:ASN:HA	1:A:2433:ARG:CB	2.32	0.59
1:B:1851:ASN:CB	1:B:1897:THR:O	2.50	0.59
1:B:1984:ILE:CB	1:B:1985:SER:CB	2.81	0.59
1:A:1877:SER:O	1:A:1878:HIS:C	2.39	0.59
1:A:2774:ALA:C	1:A:2775:TRP:HA	2.26	0.59
1:B:2396:ASP:C	1:B:2398:ILE:N	2.61	0.59
1:B:2429:ASN:HA	1:B:2433:ARG:CB	2.32	0.59
1:A:1842:GLY:CA	1:A:1891:HIS:HA	2.14	0.59
1:B:1447:GLU:CA	1:B:1448:VAL:CB	2.71	0.59
1:A:1364:GLU:O	2:T:216:PRO:C	2.45	0.59
1:A:2371:PHE:CA	1:A:2372:CYS:CB	2.80	0.59
1:A:3336:HIS:H	1:A:3337:LEU:CA	2.04	0.59
1:A:3409:ASP:CA	1:A:3518:PHE:CB	2.81	0.59
1:A:2724:CYS:HA	1:A:2726:GLU:N	2.18	0.59
1:A:4013:HIS:O	1:A:4016:CYS:CB	2.51	0.59
1:B:1986:GLU:HA	1:B:1987:PHE:CB	2.33	0.59
1:A:1398:TRP:HA	1:A:1402:GLU:CB	2.33	0.59
1:A:2873:LEU:C	1:A:2875:ASP:H	2.06	0.59
1:B:1814:GLY:C	1:B:1815:ARG:C	2.71	0.59
1:B:2155:ASP:CA	1:B:2156:SER:C	2.75	0.59
1:B:3845:GLN:CB	1:B:3878:HIS:HA	2.33	0.59
1:B:4013:HIS:O	1:B:4016:CYS:CB	2.50	0.59
1:B:1398:TRP:HA	1:B:1402:GLU:CB	2.33	0.58
1:B:2379:SER:O	1:B:2380:LEU:O	2.20	0.58
1:B:2513:GLN:O	1:B:2522:LYS:N	2.36	0.58
1:B:2724:CYS:HA	1:B:2726:GLU:N	2.18	0.58
1:B:2869:THR:C	1:B:2870:GLU:O	2.41	0.58
1:A:1986:GLU:HA	1:A:1987:PHE:CB	2.33	0.58
1:A:2396:ASP:C	1:A:2398:ILE:N	2.61	0.58
1:A:3845:GLN:CB	1:A:3878:HIS:HA	2.33	0.58
1:B:2581:LEU:CB	1:B:2582:VAL:CB	2.80	0.58
1:B:2774:ALA:C	1:B:2775:TRP:HA	2.26	0.58
1:A:2513:GLN:O	1:A:2522:LYS:N	2.36	0.58
1:A:2937:PRO:O	1:A:2938:MET:C	2.47	0.58
1:B:3503:GLY:O	1:B:3504:ASP:C	2.42	0.58
1:A:2639:GLN:O	1:A:2640:THR:CB	2.50	0.58
1:A:2869:THR:C	1:A:2870:GLU:O	2.41	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2188:PRO:N	1:B:2189:ASN:HA	2.16	0.58
1:B:2937:PRO:O	1:B:2938:MET:C	2.47	0.58
1:B:3499:CYS:O	1:B:3501:PRO:CA	2.52	0.58
1:A:1631:LYS:CA	1:A:1635:ASP:HA	2.33	0.58
1:A:2107:LYS:O	1:A:2504:LEU:HA	2.02	0.58
1:A:2301:TRP:C	1:A:2302:PHE:C	2.71	0.58
1:B:1631:LYS:CA	1:B:1635:ASP:HA	2.33	0.58
1:B:2579:PHE:O	1:B:2580:LYS:CB	2.49	0.58
1:B:3409:ASP:CA	1:B:3518:PHE:CB	2.81	0.58
1:A:1364:GLU:HA	2:T:216:PRO:HA	0.58	0.58
1:A:1465:ILE:O	1:A:1467:ASN:N	2.37	0.58
1:B:2371:PHE:CA	1:B:2372:CYS:CB	2.80	0.58
1:A:1478:SER:O	1:A:1480:THR:N	2.37	0.58
1:A:2581:LEU:CB	1:A:2582:VAL:CB	2.80	0.58
1:A:2873:LEU:O	1:A:2876:TRP:N	2.36	0.58
1:B:1465:ILE:O	1:B:1467:ASN:N	2.37	0.58
1:A:1364:GLU:C	2:T:216:PRO:CB	2.77	0.58
1:A:2379:SER:O	1:A:2380:LEU:O	2.20	0.58
1:A:3900:ILE:CB	1:A:3901:PRO:HA	2.34	0.58
1:B:2301:TRP:C	1:B:2302:PHE:C	2.71	0.58
1:B:2909:PHE:O	1:B:2910:ASN:CB	2.52	0.58
1:A:3998:ILE:CA	1:A:3999:ASP:CB	2.79	0.57
1:B:1755:LEU:O	1:B:1756:LEU:CB	2.50	0.57
1:B:2103:VAL:O	1:B:2105:ASP:N	2.35	0.57
1:A:3499:CYS:O	1:A:3501:PRO:CA	2.52	0.57
1:B:2346:PHE:CB	1:B:2348:HIS:O	2.52	0.57
1:A:1814:GLY:C	1:A:1815:ARG:C	2.71	0.57
1:A:2346:PHE:CB	1:A:2348:HIS:O	2.52	0.57
1:A:3408:LEU:CB	1:A:3516:VAL:CB	2.83	0.57
1:B:2873:LEU:O	1:B:2875:ASP:CA	2.52	0.57
1:B:3426:THR:CB	1:B:3427:VAL:N	2.27	0.57
1:A:1755:LEU:O	1:A:1756:LEU:CB	2.50	0.57
1:A:1932:MET:CA	1:A:1946:ALA:HB1	2.18	0.57
1:B:3376:LYS:O	1:B:3380:LEU:N	2.31	0.57
1:B:3408:LEU:CB	1:B:3516:VAL:CB	2.83	0.57
1:A:1844:TRP:CA	1:A:1845:GLY:N	2.62	0.57
1:B:2000:ARG:O	1:B:2212:LEU:O	2.23	0.57
1:B:3453:GLN:CB	1:B:3454:ASP:CA	2.82	0.57
1:B:2578:ILE:CB	1:B:2581:LEU:O	2.53	0.57
1:A:3921:SER:CA	1:A:3922:GLY:O	2.53	0.57
1:B:1478:SER:O	1:B:1480:THR:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2301:TRP:CA	1:B:2302:PHE:N	2.66	0.57
1:A:3453:GLN:CB	1:A:3454:ASP:CA	2.82	0.57
1:B:1631:LYS:O	1:B:1635:ASP:CA	2.53	0.57
1:B:3899:ASP:CB	1:B:3900:ILE:CB	2.82	0.57
1:B:1827:ASP:CB	1:B:1828:TYR:CA	2.76	0.57
1:B:1847:PHE:O	1:B:1896:ILE:HA	2.05	0.57
1:B:3864:ALA:O	1:B:3865:ALA:CB	2.53	0.57
1:A:3751:VAL:N	1:A:3752:THR:CA	2.68	0.56
1:B:3900:ILE:CB	1:B:3901:PRO:HA	2.34	0.56
1:A:3360:TYR:C	1:A:3361:ASP:CA	2.76	0.56
1:A:3807:SER:HA	1:A:3809:GLU:CA	2.34	0.56
1:A:3899:ASP:CB	1:A:3900:ILE:CB	2.82	0.56
1:B:2709:LYS:CB	1:B:2710:THR:N	2.69	0.56
1:A:1843:ALA:HB1	1:A:1844:TRP:C	2.27	0.56
1:A:2103:VAL:C	1:A:2105:ASP:N	2.56	0.56
1:A:2317:LEU:CB	1:A:2355:ASP:CB	2.84	0.56
1:A:2909:PHE:O	1:A:2910:ASN:CB	2.52	0.56
1:A:3738:VAL:CA	1:A:3739:ASP:CB	2.77	0.56
1:A:3807:SER:H	1:A:3809:GLU:H	1.49	0.56
1:B:2149:ARG:CB	1:B:2190:PHE:CB	2.83	0.56
1:B:2512:LYS:CB	1:B:2522:LYS:O	2.53	0.56
1:B:3921:SER:CA	1:B:3922:GLY:O	2.53	0.56
1:A:1847:PHE:O	1:A:1896:ILE:HA	2.05	0.56
1:A:2512:LYS:CB	1:A:2522:LYS:O	2.54	0.56
1:B:2873:LEU:O	1:B:2876:TRP:N	2.36	0.56
1:A:2149:ARG:CB	1:A:2190:PHE:CB	2.83	0.56
1:A:4033:LEU:O	1:A:4034:LEU:C	2.48	0.56
1:A:2873:LEU:O	1:A:2875:ASP:CA	2.52	0.56
1:B:2306:ASP:CB	1:B:2311:LYS:CB	2.84	0.56
1:B:2434:ASN:CB	1:B:2435:SER:C	2.79	0.56
1:B:1371:LEU:CB	2:S:165:ASP:HA	2.36	0.56
1:B:2067:GLN:HA	1:B:2191:ARG:CB	2.35	0.56
1:B:3358:VAL:O	1:B:3360:TYR:CB	2.54	0.56
1:A:1631:LYS:O	1:A:1635:ASP:CA	2.53	0.56
1:A:1631:LYS:HA	1:A:1639:VAL:CB	2.36	0.56
1:A:2067:GLN:HA	1:A:2191:ARG:CB	2.35	0.56
1:A:3751:VAL:H	1:A:3752:THR:CB	2.18	0.56
1:A:1466:GLN:HA	1:A:1468:PHE:N	2.06	0.56
1:A:2000:ARG:O	1:A:2212:LEU:O	2.23	0.56
1:B:3751:VAL:N	1:B:3752:THR:CA	2.68	0.56
1:A:2578:ILE:CB	1:A:2581:LEU:O	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3502:SER:O	1:A:3503:GLY:C	2.49	0.56
1:A:3891:ARG:CB	1:A:3892:THR:CB	2.84	0.56
1:A:1734:PHE:O	1:A:1755:LEU:C	2.48	0.55
1:B:4033:LEU:O	1:B:4034:LEU:C	2.48	0.55
1:A:2429:ASN:CA	1:A:2432:LEU:O	2.54	0.55
1:A:2434:ASN:CB	1:A:2435:SER:C	2.79	0.55
1:A:2604:LYS:N	1:A:2610:GLY:CA	2.69	0.55
1:A:2709:LYS:CB	1:A:2710:THR:N	2.69	0.55
1:B:1497:ILE:C	1:B:1499:VAL:H	2.15	0.55
1:A:3358:VAL:O	1:A:3360:TYR:CB	2.54	0.55
1:B:2317:LEU:CB	1:B:2355:ASP:CB	2.84	0.55
1:B:2429:ASN:C	1:B:2432:LEU:C	2.73	0.55
1:B:2600:TYR:O	1:B:2610:GLY:CA	2.53	0.55
1:A:1844:TRP:C	1:A:1845:GLY:CA	2.73	0.55
1:B:1734:PHE:O	1:B:1755:LEU:C	2.48	0.55
1:B:2657:ALA:O	1:B:2914:ILE:O	2.21	0.55
1:A:2369:SER:C	1:A:2371:PHE:N	2.64	0.55
1:A:3408:LEU:O	1:A:3518:PHE:CA	2.54	0.55
1:B:2429:ASN:CA	1:B:2432:LEU:O	2.54	0.55
1:B:2604:LYS:N	1:B:2610:GLY:CA	2.69	0.55
1:B:3751:VAL:H	1:B:3752:THR:CB	2.18	0.55
1:B:3891:ARG:CB	1:B:3892:THR:CB	2.84	0.55
1:A:1942:SER:O	1:A:1946:ALA:N	2.38	0.55
1:A:2600:TYR:O	1:A:2610:GLY:CA	2.53	0.55
1:A:2615:TYR:CA	1:A:2616:LEU:CB	2.74	0.55
1:A:3637:GLN:C	1:A:3639:HIS:H	2.15	0.55
1:B:1951:HIS:O	1:B:1955:LEU:CB	2.54	0.55
1:B:3408:LEU:O	1:B:3518:PHE:CA	2.54	0.55
1:B:4061:SER:O	1:B:4062:TRP:C	2.47	0.55
1:A:1814:GLY:C	1:A:1815:ARG:CA	2.78	0.55
1:A:1814:GLY:CA	1:A:1815:ARG:O	2.55	0.55
1:A:2306:ASP:CB	1:A:2311:LYS:CB	2.84	0.55
1:B:1631:LYS:HA	1:B:1639:VAL:CB	2.36	0.55
1:B:1942:SER:O	1:B:1946:ALA:N	2.38	0.55
1:B:2600:TYR:CA	1:B:2613:SER:CB	2.83	0.55
1:A:1822:CYS:C	1:A:1824:ASP:N	2.65	0.55
1:A:4061:SER:O	1:A:4062:TRP:C	2.47	0.55
1:B:1843:ALA:HB1	1:B:1844:TRP:C	2.27	0.55
1:B:2609:THR:HA	1:B:2612:GLN:CB	2.37	0.55
1:B:3502:SER:O	1:B:3503:GLY:C	2.49	0.55
1:B:3807:SER:HA	1:B:3809:GLU:CA	2.33	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2435:SER:H	1:A:2479:ILE:CA	2.07	0.55
1:B:3637:GLN:C	1:B:3639:HIS:H	2.15	0.55
1:B:3356:PHE:H	1:B:3357:ALA:HB2	1.71	0.55
1:A:1951:HIS:O	1:A:1955:LEU:CB	2.54	0.54
1:B:3336:HIS:O	1:B:3517:HIS:CB	2.56	0.54
1:B:3852:LYS:O	1:B:3856:HIS:N	2.32	0.54
1:A:3356:PHE:H	1:A:3357:ALA:HB2	1.71	0.54
1:B:1466:GLN:HA	1:B:1468:PHE:N	2.06	0.54
1:B:1814:GLY:C	1:B:1815:ARG:CA	2.78	0.54
1:B:1822:CYS:C	1:B:1824:ASP:N	2.65	0.54
1:B:2653:TRP:O	1:B:2656:PHE:HA	2.06	0.54
1:A:2200:ASP:O	1:A:2204:PRO:N	2.40	0.54
1:B:2343:ASN:C	1:B:2345:TYR:N	2.65	0.54
1:A:1920:SER:CB	1:A:3998:ILE:HA	2.37	0.54
1:B:1879:ILE:C	1:B:1887:PRO:O	2.50	0.54
1:A:2627:ARG:CB	1:A:2651:GLU:CB	2.86	0.54
1:B:2200:ASP:O	1:B:2204:PRO:N	2.40	0.54
1:A:2614:HIS:O	1:A:2616:LEU:CA	2.50	0.54
1:A:2653:TRP:O	1:A:2656:PHE:HA	2.06	0.54
1:B:2094:PHE:O	1:B:2095:ASP:CB	2.56	0.54
1:B:2614:HIS:O	1:B:2616:LEU:CA	2.50	0.54
1:A:2657:ALA:O	1:A:2914:ILE:O	2.21	0.54
1:B:1814:GLY:CA	1:B:1815:ARG:O	2.55	0.54
1:A:1932:MET:CA	1:A:1946:ALA:HA	2.38	0.54
1:A:2609:THR:HA	1:A:2612:GLN:CB	2.37	0.54
1:A:3336:HIS:O	1:A:3517:HIS:CB	2.56	0.54
1:A:2118:MET:CA	1:A:2129:LEU:CB	2.81	0.54
1:A:2155:ASP:HA	1:A:2156:SER:C	2.33	0.54
1:A:3995:GLY:C	1:A:3997:LYS:N	2.37	0.54
1:B:3998:ILE:CA	1:B:3999:ASP:CB	2.79	0.54
1:A:3609:PRO:O	1:A:3610:GLN:CB	2.56	0.54
1:B:1932:MET:CA	1:B:1946:ALA:HA	2.38	0.54
1:B:2369:SER:C	1:B:2371:PHE:N	2.64	0.54
1:B:2627:ARG:CB	1:B:2651:GLU:CB	2.86	0.54
1:A:3452:ILE:O	1:A:3454:ASP:N	2.40	0.53
1:B:1986:GLU:C	1:B:1987:PHE:CB	2.81	0.53
1:A:1497:ILE:C	1:A:1499:VAL:H	2.15	0.53
1:B:1366:VAL:CB	2:S:216:PRO:C	2.81	0.53
1:B:2155:ASP:HA	1:B:2156:SER:C	2.33	0.53
1:B:2159:ASP:CB	1:B:2161:GLU:H	2.22	0.53
1:B:3609:PRO:O	1:B:3610:GLN:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3995:GLY:C	1:B:3997:LYS:N	2.37	0.53
1:A:2000:ARG:O	1:A:2212:LEU:CA	2.55	0.53
1:A:2107:LYS:C	1:A:2503:VAL:C	2.77	0.53
1:A:2347:GLY:N	1:A:2348:HIS:CA	2.71	0.53
1:B:1920:SER:CB	1:B:3998:ILE:HA	2.37	0.53
1:A:2094:PHE:O	1:A:2095:ASP:CB	2.56	0.53
1:A:2107:LYS:CA	1:A:2503:VAL:C	2.81	0.53
1:A:2604:LYS:CB	1:A:2610:GLY:CA	2.83	0.53
1:B:2000:ARG:O	1:B:2212:LEU:CA	2.55	0.53
1:B:3665:ARG:C	1:B:3667:ALA:HB3	2.28	0.53
1:A:2304:ASN:O	1:A:2305:LEU:CB	2.57	0.53
1:B:2107:LYS:C	1:B:2503:VAL:C	2.77	0.53
1:B:2107:LYS:CA	1:B:2503:VAL:C	2.81	0.53
1:B:3452:ILE:O	1:B:3454:ASP:N	2.40	0.53
1:A:1986:GLU:C	1:A:1987:PHE:CB	2.81	0.53
1:B:2733:VAL:CB	1:B:2734:ILE:HA	2.39	0.53
1:A:3665:ARG:C	1:A:3667:ALA:HB3	2.28	0.53
1:A:3864:ALA:O	1:A:3865:ALA:CB	2.53	0.53
1:B:2209:ARG:CB	1:B:2210:CYS:CA	2.87	0.53
1:A:1844:TRP:O	1:A:1893:ALA:O	2.25	0.53
1:A:2209:ARG:CB	1:A:2210:CYS:CA	2.87	0.53
1:A:3499:CYS:O	1:A:3501:PRO:HA	2.09	0.53
1:B:3360:TYR:C	1:B:3361:ASP:CA	2.76	0.53
1:A:1879:ILE:C	1:A:1887:PRO:O	2.50	0.53
1:A:2733:VAL:CB	1:A:2734:ILE:HA	2.39	0.53
1:B:3499:CYS:O	1:B:3501:PRO:HA	2.09	0.53
2:T:65:THR:O	2:T:66:GLN:CB	2.57	0.53
1:A:2343:ASN:C	1:A:2345:TYR:N	2.65	0.53
1:A:2604:LYS:H	1:A:2610:GLY:CA	2.21	0.53
2:T:23:LEU:O	2:T:25:GLU:N	2.42	0.53
1:A:2159:ASP:CB	1:A:2161:GLU:H	2.22	0.52
1:A:2346:PHE:CA	1:A:2348:HIS:O	2.57	0.52
1:A:2429:ASN:C	1:A:2432:LEU:C	2.73	0.52
1:B:2872:GLU:O	1:B:2873:LEU:C	2.51	0.52
1:B:3807:SER:CB	1:B:3809:GLU:CB	2.87	0.52
1:A:1691:SER:CB	1:A:1692:ASP:C	2.82	0.52
1:A:2096:GLY:O	1:A:2097:HIS:C	2.53	0.52
1:A:3852:LYS:O	1:A:3856:HIS:N	2.32	0.52
1:A:2301:TRP:CA	1:A:2302:PHE:N	2.66	0.52
1:A:2757:MET:O	1:A:2758:LEU:CB	2.58	0.52
1:A:3807:SER:CB	1:A:3809:GLU:CB	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3738:VAL:CA	1:B:3739:ASP:CB	2.77	0.52
1:A:1447:GLU:CA	1:A:1448:VAL:CB	2.71	0.52
1:A:2774:ALA:CA	1:A:2775:TRP:HA	2.39	0.52
1:A:3809:GLU:O	1:A:3838:TRP:N	2.40	0.52
1:B:3419:SER:O	1:B:3420:ASN:C	2.52	0.52
1:A:3333:TYR:O	1:A:3335:GLY:N	2.42	0.52
1:A:3748:TRP:O	1:A:3752:THR:HA	2.10	0.52
1:B:2304:ASN:O	1:B:2305:LEU:CB	2.57	0.52
1:B:2430:ASN:CA	1:B:2432:LEU:CB	2.87	0.52
1:B:3333:TYR:O	1:B:3335:GLY:N	2.42	0.52
1:A:2430:ASN:CA	1:A:2432:LEU:CB	2.87	0.52
1:A:2600:TYR:CA	1:A:2613:SER:CB	2.83	0.52
1:B:1691:SER:O	1:B:1695:LYS:CB	2.58	0.52
1:B:2346:PHE:CA	1:B:2348:HIS:O	2.57	0.52
1:B:2604:LYS:H	1:B:2610:GLY:CA	2.21	0.52
1:A:1691:SER:O	1:A:1695:LYS:CB	2.58	0.52
1:B:1844:TRP:C	1:B:1845:GLY:CA	2.73	0.52
1:B:2096:GLY:O	1:B:2097:HIS:C	2.53	0.52
1:A:2336:ARG:O	1:A:2340:GLN:CB	2.58	0.52
1:A:3456:GLU:C	1:A:3460:PRO:CB	2.83	0.52
1:A:3878:HIS:HA	1:A:3880:THR:CB	2.40	0.52
1:B:1691:SER:CB	1:B:1692:ASP:C	2.82	0.52
1:B:2347:GLY:N	1:B:2348:HIS:CA	2.71	0.52
1:B:2774:ALA:CA	1:B:2775:TRP:HA	2.39	0.52
1:B:2434:ASN:CA	1:B:2435:SER:C	2.82	0.52
1:B:3809:GLU:O	1:B:3838:TRP:N	2.40	0.52
1:B:2118:MET:CA	1:B:2129:LEU:CB	2.81	0.51
1:B:3336:HIS:O	1:B:3517:HIS:CA	2.58	0.51
1:B:2429:ASN:HA	1:B:2432:LEU:O	2.11	0.51
1:A:2103:VAL:O	1:A:2105:ASP:N	2.35	0.51
1:A:2429:ASN:HA	1:A:2432:LEU:O	2.11	0.51
1:B:2336:ARG:O	1:B:2340:GLN:CB	2.58	0.51
1:B:1844:TRP:O	1:B:1893:ALA:O	2.25	0.51
2:T:23:LEU:C	2:T:25:GLU:N	2.68	0.51
1:B:2291:ALA:O	1:B:2295:ILE:N	2.43	0.51
1:A:2114:LEU:O	1:A:2118:MET:O	2.29	0.51
1:A:3336:HIS:O	1:A:3517:HIS:CA	2.58	0.51
1:B:2346:PHE:CB	1:B:2352:GLU:CB	2.89	0.51
1:B:2604:LYS:CA	1:B:2610:GLY:HA3	2.41	0.51
1:B:3456:GLU:C	1:B:3460:PRO:CB	2.83	0.51
1:B:3787:THR:O	1:B:3876:THR:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2371:PHE:CB	1:A:2372:CYS:CB	2.89	0.51
1:A:1428:CYS:CB	1:A:1429:LEU:HA	2.40	0.51
1:A:1986:GLU:CA	1:A:1987:PHE:C	2.77	0.51
1:B:2757:MET:O	1:B:2758:LEU:CB	2.58	0.51
1:B:3878:HIS:HA	1:B:3880:THR:CB	2.40	0.51
1:B:1428:CYS:CB	1:B:1429:LEU:HA	2.40	0.51
1:B:3748:TRP:O	1:B:3752:THR:HA	2.10	0.51
1:B:3821:ASN:C	1:B:3823:ASN:H	2.17	0.51
1:A:1624:ARG:CB	1:A:1647:ALA:HB2	2.38	0.51
1:A:2096:GLY:HA3	1:A:2146:LYS:CB	2.41	0.51
1:A:2532:VAL:O	1:A:2533:GLY:C	2.54	0.51
1:B:2114:LEU:O	1:B:2118:MET:O	2.29	0.51
1:A:2346:PHE:CB	1:A:2352:GLU:CB	2.89	0.50
1:A:4061:SER:C	1:A:4066:PRO:HA	2.18	0.50
1:B:3404:VAL:HA	1:B:3494:LEU:CB	2.41	0.50
1:B:3408:LEU:C	1:B:3518:PHE:CB	2.84	0.50
1:A:2434:ASN:CA	1:A:2435:SER:C	2.82	0.50
1:A:3750:TYR:CA	1:A:3752:THR:CB	2.89	0.50
1:B:2371:PHE:CB	1:B:2372:CYS:CB	2.89	0.50
1:B:3750:TYR:CA	1:B:3752:THR:CB	2.89	0.50
1:A:3787:THR:O	1:A:3876:THR:HA	2.11	0.50
1:B:1844:TRP:HA	1:B:1893:ALA:N	2.27	0.50
1:B:2532:VAL:O	1:B:2533:GLY:C	2.54	0.50
1:B:2092:ALA:C	1:B:2097:HIS:HA	2.37	0.50
1:B:2395:ILE:O	1:B:2397:THR:N	2.45	0.50
1:B:3420:ASN:O	1:B:3421:TYR:CB	2.60	0.50
1:A:1872:LEU:C	1:A:1875:GLY:H	2.19	0.50
1:A:2092:ALA:C	1:A:2097:HIS:HA	2.37	0.50
1:A:2604:LYS:CA	1:A:2610:GLY:HA3	2.41	0.50
1:A:2654:ARG:HA	1:A:2656:PHE:CB	2.42	0.50
1:A:3408:LEU:C	1:A:3518:PHE:CB	2.84	0.50
1:B:2096:GLY:HA3	1:B:2146:LYS:CB	2.41	0.50
1:B:2609:THR:O	1:B:2610:GLY:C	2.54	0.50
1:B:4047:ALA:N	1:B:4048:ILE:N	2.24	0.50
1:A:2159:ASP:C	1:A:2161:GLU:H	2.19	0.50
1:A:2327:ALA:O	1:A:2328:GLY:O	2.30	0.50
1:A:2333:GLU:O	1:A:2334:SER:C	2.51	0.50
1:A:3570:LEU:C	1:A:3572:ASN:N	2.68	0.50
1:A:3916:PHE:O	1:A:3918:GLY:HA3	2.12	0.50
1:A:1942:SER:C	1:A:1944:SER:N	2.70	0.50
1:A:3821:ASN:C	1:A:3823:ASN:H	2.17	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2535:CYS:O	1:B:2536:ASN:C	2.54	0.50
2:T:40:TRP:O	2:T:44:LYS:N	2.44	0.50
1:B:3570:LEU:C	1:B:3572:ASN:N	2.68	0.49
1:A:2390:ILE:O	1:A:2391:VAL:O	2.30	0.49
1:A:3754:LYS:CA	1:A:3755:SER:N	2.71	0.49
1:B:2654:ARG:HA	1:B:2656:PHE:CB	2.42	0.49
1:B:2836:ALA:O	1:B:2837:ASN:CB	2.60	0.49
1:A:2069:ALA:HA	1:A:2192:ILE:O	2.11	0.49
1:A:2395:ILE:O	1:A:2397:THR:N	2.45	0.49
1:B:1465:ILE:O	1:B:1467:ASN:CB	2.60	0.49
1:A:1921:MET:O	1:A:1922:LYS:CB	2.58	0.49
1:A:3419:SER:O	1:A:3420:ASN:C	2.52	0.49
1:A:4004:LEU:O	1:A:4008:ALA:HB2	2.12	0.49
1:B:1969:GLY:O	1:B:1971:ARG:N	2.45	0.49
1:B:2159:ASP:C	1:B:2161:GLU:H	2.19	0.49
1:B:3916:PHE:O	1:B:3918:GLY:HA3	2.12	0.49
1:A:1814:GLY:CA	1:A:1815:ARG:CA	2.86	0.49
1:A:1842:GLY:HA2	1:A:1892:THR:N	2.28	0.49
1:A:2001:VAL:C	1:A:2212:LEU:O	2.55	0.49
1:A:2532:VAL:O	1:A:2533:GLY:O	2.30	0.49
1:B:1848:ASP:N	1:B:1849:GLU:C	2.71	0.49
1:B:1921:MET:O	1:B:1922:LYS:CB	2.58	0.49
1:B:1922:LYS:O	1:B:1923:SER:CB	2.61	0.49
1:B:3781:SER:O	1:B:3782:GLU:CB	2.60	0.49
1:A:2140:ASP:C	1:A:2142:THR:N	2.71	0.49
1:A:2291:ALA:O	1:A:2295:ILE:N	2.43	0.49
1:A:2535:CYS:O	1:A:2536:ASN:C	2.54	0.49
1:A:2609:THR:O	1:A:2610:GLY:C	2.54	0.49
1:A:3404:VAL:HA	1:A:3494:LEU:CB	2.41	0.49
1:B:1624:ARG:CB	1:B:1647:ALA:HB2	2.38	0.49
1:B:2001:VAL:C	1:B:2212:LEU:O	2.55	0.49
1:A:1844:TRP:HA	1:A:1893:ALA:N	2.27	0.49
1:A:1932:MET:HA	1:A:1946:ALA:HA	1.94	0.49
1:B:1942:SER:O	1:B:1944:SER:N	2.46	0.49
1:B:2092:ALA:CA	1:B:2097:HIS:HA	2.39	0.49
1:B:2604:LYS:CB	1:B:2610:GLY:CA	2.83	0.49
1:B:3336:HIS:CB	1:B:3517:HIS:CB	2.91	0.49
1:A:1447:GLU:CA	1:A:1449:GLN:N	2.41	0.49
1:B:2069:ALA:HA	1:B:2192:ILE:O	2.11	0.49
1:B:3882:ASP:O	1:B:3883:LYS:CB	2.60	0.49
2:S:60:GLY:C	2:S:62:VAL:H	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1465:ILE:O	1:A:1467:ASN:CB	2.61	0.49
1:A:1922:LYS:O	1:A:1923:SER:CB	2.61	0.49
1:A:3676:TRP:O	1:A:3680:GLN:CB	2.61	0.49
1:A:3781:SER:O	1:A:3782:GLU:CB	2.60	0.49
1:B:2327:ALA:O	1:B:2328:GLY:O	2.30	0.49
1:B:2532:VAL:O	1:B:2533:GLY:O	2.30	0.49
1:A:1843:ALA:CA	1:A:1844:TRP:O	2.61	0.49
1:B:3479:VAL:N	1:B:3482:GLY:O	2.46	0.49
1:B:3921:SER:HA	1:B:3922:GLY:O	2.13	0.49
1:A:1550:GLY:C	1:A:1552:GLY:N	2.71	0.48
1:A:1790:TYR:O	1:A:1916:PHE:CB	2.61	0.48
1:A:1942:SER:O	1:A:1944:SER:N	2.45	0.48
1:A:2289:GLN:CB	1:A:2407:LEU:CB	2.91	0.48
1:B:1942:SER:C	1:B:1944:SER:N	2.70	0.48
1:B:2289:GLN:CB	1:B:2407:LEU:CB	2.91	0.48
1:B:3807:SER:CA	1:B:3809:GLU:CB	2.91	0.48
1:A:2329:ASP:N	1:A:2333:GLU:CB	2.77	0.48
1:A:2836:ALA:O	1:A:2837:ASN:CB	2.60	0.48
1:A:3410:PRO:C	1:A:3412:SER:N	2.68	0.48
1:B:2195:GLU:O	1:B:2197:ASP:N	2.45	0.48
1:B:2302:PHE:O	1:B:2303:GLN:C	2.55	0.48
1:B:2654:ARG:C	1:B:2656:PHE:N	2.71	0.48
1:A:3336:HIS:CB	1:A:3517:HIS:CB	2.91	0.48
1:B:1790:TYR:O	1:B:1916:PHE:CB	2.60	0.48
1:B:1843:ALA:CA	1:B:1844:TRP:O	2.61	0.48
1:B:1918:GLU:O	1:B:3996:GLY:CA	2.61	0.48
1:A:1419:ASN:HA	1:A:1420:TYR:C	2.39	0.48
1:A:1848:ASP:N	1:A:1849:GLU:C	2.70	0.48
1:A:1986:GLU:N	1:A:1987:PHE:CB	2.76	0.48
1:A:3642:TYR:O	1:A:3643:GLY:C	2.56	0.48
1:B:1986:GLU:CA	1:B:1987:PHE:C	2.77	0.48
1:B:3351:ARG:CB	1:B:3352:LEU:HA	2.43	0.48
2:S:6:TYR:O	2:S:31:LEU:HA	2.12	0.48
1:A:1918:GLU:O	1:A:3996:GLY:CA	2.61	0.48
1:A:1969:GLY:O	1:A:1971:ARG:N	2.45	0.48
1:A:2092:ALA:CA	1:A:2097:HIS:HA	2.39	0.48
1:A:2195:GLU:O	1:A:2197:ASP:N	2.45	0.48
1:A:2872:GLU:O	1:A:2873:LEU:C	2.51	0.48
1:A:3687:SER:C	1:A:3689:ALA:H	2.21	0.48
1:A:3991:THR:HA	1:A:3994:TYR:CB	2.44	0.48
1:B:1497:ILE:O	1:B:1499:VAL:CA	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3997:LYS:CB	1:B:4003:ASP:CB	2.92	0.48
1:A:3420:ASN:O	1:A:3421:TYR:CB	2.60	0.48
1:A:3882:ASP:O	1:A:3883:LYS:CB	2.60	0.48
1:B:1872:LEU:C	1:B:1875:GLY:H	2.19	0.48
1:B:2001:VAL:O	1:B:2212:LEU:O	2.32	0.48
1:B:2390:ILE:O	1:B:2391:VAL:O	2.30	0.48
2:T:51:PHE:O	2:T:52:PRO:C	2.57	0.48
1:B:1842:GLY:HA2	1:B:1892:THR:N	2.28	0.48
1:B:1986:GLU:N	1:B:1987:PHE:CB	2.76	0.48
1:B:2189:ASN:O	1:B:2190:PHE:CB	2.61	0.48
1:B:3676:TRP:O	1:B:3680:GLN:CB	2.61	0.48
1:B:4046:THR:C	1:B:4048:ILE:N	2.72	0.48
1:A:3351:ARG:CB	1:A:3352:LEU:HA	2.43	0.48
1:B:2140:ASP:C	1:B:2142:THR:N	2.71	0.48
1:B:2329:ASP:N	1:B:2333:GLU:CB	2.77	0.48
1:B:3377:MET:O	1:B:3381:GLU:N	2.37	0.48
1:A:2122:THR:CB	1:A:2125:TRP:CB	2.91	0.48
1:A:3479:VAL:N	1:A:3482:GLY:O	2.46	0.48
1:A:3807:SER:CA	1:A:3809:GLU:CB	2.91	0.48
1:A:3921:SER:HA	1:A:3922:GLY:O	2.13	0.48
1:B:2333:GLU:O	1:B:2334:SER:C	2.51	0.48
1:A:2160:PRO:C	1:A:2162:TYR:N	2.43	0.48
1:A:2709:LYS:C	1:A:2710:THR:CA	2.81	0.48
1:B:3991:THR:HA	1:B:3994:TYR:CB	2.44	0.48
1:B:1419:ASN:HA	1:B:1420:TYR:C	2.39	0.47
1:B:1932:MET:HA	1:B:1946:ALA:HA	1.95	0.47
1:B:3642:TYR:O	1:B:3643:GLY:C	2.56	0.47
1:A:2189:ASN:O	1:A:2190:PHE:CB	2.61	0.47
1:A:2302:PHE:O	1:A:2303:GLN:C	2.55	0.47
1:B:1550:GLY:C	1:B:1552:GLY:N	2.71	0.47
1:B:1745:ASN:HA	1:B:1754:TYR:CB	2.44	0.47
1:B:2522:LYS:O	1:B:2523:TRP:CB	2.62	0.47
1:A:2654:ARG:C	1:A:2656:PHE:N	2.71	0.47
1:A:3713:GLU:CA	1:A:3714:GLN:C	2.87	0.47
1:A:2155:ASP:N	1:A:2195:GLU:CB	2.76	0.47
1:A:2513:GLN:O	1:A:2522:LYS:CB	2.62	0.47
1:A:3411:SER:CB	1:A:3499:CYS:CB	2.93	0.47
1:A:3687:SER:O	1:A:3688:THR:C	2.58	0.47
1:A:3997:LYS:CB	1:A:4003:ASP:CB	2.92	0.47
1:B:2155:ASP:N	1:B:2195:GLU:CB	2.76	0.47
1:B:2317:LEU:CB	1:B:2355:ASP:O	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2615:TYR:CA	1:B:2616:LEU:CB	2.74	0.47
1:B:3687:SER:C	1:B:3689:ALA:H	2.21	0.47
1:B:3713:GLU:CA	1:B:3714:GLN:C	2.87	0.47
1:A:1987:PHE:O	1:A:1989:GLU:N	2.47	0.47
1:B:2159:ASP:O	1:B:2162:TYR:N	2.48	0.47
1:B:2578:ILE:C	1:B:2580:LYS:N	2.49	0.47
1:B:3687:SER:C	1:B:3689:ALA:N	2.71	0.47
1:B:3754:LYS:CB	1:B:3755:SER:N	2.77	0.47
1:A:1745:ASN:HA	1:A:1754:TYR:CB	2.44	0.47
1:A:1941:ASP:CA	1:A:1942:SER:CB	2.93	0.47
1:A:2144:THR:HA	1:A:2145:PHE:C	2.40	0.47
1:A:2604:LYS:HA	1:A:2608:SER:HA	1.96	0.47
1:B:2122:THR:CB	1:B:2125:TRP:CB	2.91	0.47
1:B:3891:ARG:CB	1:B:3892:THR:CA	2.93	0.47
1:A:2317:LEU:CB	1:A:2355:ASP:O	2.62	0.47
1:B:2459:HIS:CA	1:B:2463:ASN:CB	2.93	0.47
1:B:2513:GLN:O	1:B:2522:LYS:CB	2.62	0.47
1:B:3821:ASN:C	1:B:3823:ASN:N	2.73	0.47
1:A:2654:ARG:C	1:A:2656:PHE:H	2.22	0.47
1:A:3891:ARG:CB	1:A:3892:THR:CA	2.93	0.47
1:B:3411:SER:CB	1:B:3499:CYS:CB	2.93	0.47
1:B:3889:LEU:N	1:B:3890:GLN:HA	2.30	0.47
1:A:1632:ASP:N	1:A:1633:GLY:CA	2.78	0.47
1:A:2092:ALA:O	1:A:2097:HIS:N	2.48	0.47
1:A:2386:MET:HA	1:A:2390:ILE:CB	2.45	0.47
1:B:1843:ALA:HB1	1:B:1893:ALA:CA	2.45	0.47
1:B:2604:LYS:CA	1:B:2610:GLY:CA	2.93	0.47
1:B:4004:LEU:O	1:B:4008:ALA:HB2	2.12	0.47
1:A:1497:ILE:O	1:A:1499:VAL:CA	2.61	0.46
1:A:1842:GLY:HA2	1:A:1891:HIS:C	2.40	0.46
1:A:2459:HIS:CA	1:A:2463:ASN:CB	2.93	0.46
1:A:3761:ASN:O	1:A:3762:TRP:O	2.33	0.46
1:A:3859:VAL:CB	1:A:3888:LEU:N	2.78	0.46
1:B:1632:ASP:N	1:B:1633:GLY:CA	2.78	0.46
1:B:1814:GLY:CA	1:B:1815:ARG:CA	2.86	0.46
1:B:1842:GLY:HA2	1:B:1891:HIS:C	2.41	0.46
1:B:1987:PHE:O	1:B:1989:GLU:N	2.47	0.46
1:B:2093:ILE:O	1:B:2094:PHE:C	2.59	0.46
1:B:2383:HIS:O	1:B:2384:GLU:C	2.57	0.46
1:B:2786:ILE:O	1:B:3459:ASP:N	2.46	0.46
1:A:2001:VAL:O	1:A:2212:LEU:O	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2383:HIS:O	1:A:2384:GLU:C	2.57	0.46
1:A:3886:ALA:C	1:A:3890:GLN:CB	2.88	0.46
1:B:2144:THR:HA	1:B:2145:PHE:C	2.40	0.46
1:B:2604:LYS:HA	1:B:2608:SER:HA	1.96	0.46
2:S:65:THR:O	2:S:66:GLN:CB	2.64	0.46
1:A:2159:ASP:O	1:A:2162:TYR:N	2.48	0.46
1:A:2604:LYS:CA	1:A:2610:GLY:CA	2.93	0.46
1:A:3754:LYS:CB	1:A:3755:SER:N	2.77	0.46
1:B:2165:ALA:C	1:B:2167:ASN:N	2.73	0.46
1:B:2386:MET:HA	1:B:2390:ILE:CB	2.45	0.46
1:B:2410:SER:O	1:B:2553:HIS:CB	2.64	0.46
1:B:2654:ARG:C	1:B:2656:PHE:H	2.22	0.46
1:B:2514:GLY:CA	1:B:2520:GLU:O	2.58	0.46
1:B:3761:ASN:O	1:B:3762:TRP:O	2.33	0.46
1:B:1869:GLN:O	1:B:1873:GLN:CA	2.61	0.46
1:B:3754:LYS:CA	1:B:3755:SER:N	2.71	0.46
1:A:2786:ILE:O	1:A:3459:ASP:N	2.46	0.46
1:B:2105:ASP:HA	1:B:2157:ASP:CB	2.43	0.46
1:A:1495:THR:O	1:A:1497:ILE:N	2.49	0.46
1:A:2079:GLY:O	1:A:2081:THR:N	2.49	0.46
1:A:2383:HIS:O	1:A:2386:MET:N	2.47	0.46
1:B:2709:LYS:C	1:B:2710:THR:CA	2.81	0.46
1:A:1843:ALA:HB1	1:A:1893:ALA:CA	2.45	0.46
1:A:2116:GLY:O	1:A:2130:PHE:CB	2.64	0.46
1:A:2861:ARG:CB	1:A:2868:ASP:CB	2.94	0.46
1:B:1466:GLN:CB	1:B:1469:LEU:CA	2.94	0.46
1:B:2092:ALA:O	1:B:2097:HIS:N	2.48	0.46
1:B:2149:ARG:O	1:B:2190:PHE:HA	2.16	0.46
1:B:2238:ASP:O	1:B:2239:ASN:C	2.59	0.46
1:A:2105:ASP:HA	1:A:2157:ASP:CB	2.43	0.46
1:B:2861:ARG:CB	1:B:2868:ASP:CB	2.94	0.46
1:B:3711:GLU:HA	1:B:3712:SER:HA	1.53	0.46
1:A:1861:VAL:C	1:A:1863:ALA:N	2.73	0.46
1:A:2149:ARG:O	1:A:2190:PHE:HA	2.16	0.46
1:A:2522:LYS:O	1:A:2523:TRP:CB	2.62	0.46
1:A:3430:SER:O	1:A:3433:GLU:CB	2.64	0.46
1:A:3889:LEU:N	1:A:3890:GLN:HA	2.30	0.46
1:B:3859:VAL:CB	1:B:3888:LEU:N	2.78	0.46
1:A:1781:THR:C	1:A:1783:THR:N	2.73	0.45
1:A:2680:TYR:N	1:A:2681:LEU:CA	2.74	0.45
1:A:3711:GLU:HA	1:A:3712:SER:HA	1.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3754:LYS:O	1:A:3755:SER:C	2.55	0.45
1:A:3821:ASN:C	1:A:3823:ASN:N	2.73	0.45
1:B:1495:THR:O	1:B:1497:ILE:N	2.49	0.45
1:B:4035:GLN:HA	1:B:4036:GLN:C	2.38	0.45
2:T:23:LEU:C	2:T:25:GLU:H	2.24	0.45
1:A:1932:MET:C	1:A:1946:ALA:HB1	2.37	0.45
1:A:2410:SER:O	1:A:2553:HIS:CB	2.64	0.45
1:A:3845:GLN:CB	1:A:3878:HIS:CA	2.95	0.45
1:B:2384:GLU:O	1:B:2387:ARG:N	2.48	0.45
1:B:3409:ASP:O	1:B:3410:PRO:CB	2.63	0.45
1:A:1789:LYS:O	1:A:1790:TYR:CB	2.59	0.45
1:A:1848:ASP:C	1:A:1851:ASN:CB	2.85	0.45
1:B:1781:THR:C	1:B:1783:THR:N	2.73	0.45
1:B:2073:VAL:O	1:B:2214:TRP:HA	2.17	0.45
1:B:2114:LEU:HA	1:B:2118:MET:C	2.40	0.45
1:B:3804:ALA:C	1:B:3806:ALA:H	2.24	0.45
1:B:3845:GLN:CB	1:B:3878:HIS:CA	2.95	0.45
1:A:3462:ILE:C	1:A:3464:ARG:N	2.73	0.45
1:B:3456:GLU:O	1:B:3460:PRO:CB	2.65	0.45
1:B:3666:ALA:CB	1:B:3669:THR:N	2.54	0.45
1:B:3899:ASP:CB	1:B:3900:ILE:CA	2.95	0.45
1:A:2114:LEU:HA	1:A:2118:MET:C	2.40	0.45
1:A:3409:ASP:O	1:A:3410:PRO:CB	2.63	0.45
1:A:4035:GLN:HA	1:A:4036:GLN:C	2.38	0.45
1:B:2539:THR:C	1:B:2541:PRO:N	2.74	0.45
1:B:3878:HIS:HA	1:B:3879:LEU:C	2.40	0.45
1:A:1466:GLN:CB	1:A:1469:LEU:CA	2.94	0.45
1:A:3804:ALA:C	1:A:3806:ALA:H	2.24	0.45
1:B:1789:LYS:O	1:B:1790:TYR:CB	2.59	0.45
1:B:1941:ASP:CA	1:B:1942:SER:CB	2.93	0.45
1:B:3359:LYS:CA	1:B:3360:TYR:CB	2.95	0.45
1:A:1466:GLN:CA	1:A:1468:PHE:H	2.27	0.45
1:B:2774:ALA:HA	1:B:2775:TRP:HA	1.99	0.45
1:B:3430:SER:O	1:B:3433:GLU:CB	2.64	0.45
1:B:3687:SER:O	1:B:3688:THR:C	2.58	0.45
1:A:2073:VAL:O	1:A:2214:TRP:HA	2.17	0.45
1:A:2514:GLY:CA	1:A:2520:GLU:O	2.58	0.45
1:A:3456:GLU:O	1:A:3460:PRO:CB	2.65	0.45
1:B:3462:ILE:C	1:B:3464:ARG:N	2.73	0.45
1:A:2114:LEU:CB	1:A:2119:LEU:O	2.51	0.45
1:A:3361:ASP:O	1:A:3362:VAL:CB	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1466:GLN:CA	1:B:1468:PHE:H	2.27	0.45
1:B:1579:ILE:HA	1:B:1584:SER:HA	1.98	0.45
1:B:1848:ASP:C	1:B:1851:ASN:CB	2.85	0.45
1:B:2116:GLY:O	1:B:2130:PHE:CB	2.64	0.45
1:A:2093:ILE:O	1:A:2094:PHE:C	2.59	0.44
1:A:2940:PHE:HA	1:A:2941:THR:CB	2.48	0.44
2:T:10:LYS:O	2:T:11:GLY:C	2.61	0.44
1:A:2774:ALA:HA	1:A:2775:TRP:HA	1.99	0.44
1:A:3503:GLY:C	1:A:3505:ILE:N	2.68	0.44
1:B:2079:GLY:O	1:B:2081:THR:N	2.49	0.44
1:B:2686:LEU:H	1:B:2687:GLY:CA	2.22	0.44
1:A:2206:THR:HA	1:A:2209:ARG:O	2.17	0.44
1:A:3359:LYS:CA	1:A:3360:TYR:CB	2.95	0.44
1:B:1833:ARG:C	1:B:1835:LEU:N	2.73	0.44
1:B:1872:LEU:C	1:B:1874:VAL:H	2.24	0.44
1:B:2160:PRO:C	1:B:2162:TYR:N	2.43	0.44
1:B:3921:SER:HA	1:B:3922:GLY:HA3	1.87	0.44
1:B:1861:VAL:C	1:B:1863:ALA:N	2.73	0.44
1:B:2206:THR:HA	1:B:2209:ARG:O	2.17	0.44
1:A:2442:GLY:CA	1:A:2485:PHE:CB	2.92	0.44
1:B:3410:PRO:C	1:B:3412:SER:N	2.68	0.44
1:A:1579:ILE:HA	1:A:1584:SER:HA	1.98	0.44
1:A:3687:SER:C	1:A:3689:ALA:N	2.71	0.44
1:A:3890:GLN:CA	1:A:3891:ARG:C	2.91	0.44
1:B:3748:TRP:O	1:B:3752:THR:CA	2.66	0.44
1:A:1882:LEU:N	1:A:1885:GLU:O	2.51	0.44
1:A:4035:GLN:HA	1:A:4037:SER:N	2.33	0.44
1:B:1941:ASP:CA	1:B:1942:SER:N	2.70	0.44
1:A:3378:LYS:O	1:A:3381:GLU:O	2.35	0.44
1:A:3787:THR:N	1:A:3875:MET:O	2.50	0.44
1:B:2603:CYS:O	1:B:2604:LYS:C	2.61	0.44
1:B:3899:ASP:C	1:B:3900:ILE:HA	2.41	0.44
1:A:1635:ASP:HA	1:A:1636:ILE:HA	1.69	0.43
1:A:2107:LYS:CA	1:A:2503:VAL:O	2.66	0.43
1:A:2452:GLU:C	1:A:2454:ILE:N	2.73	0.43
1:A:2603:CYS:O	1:A:2604:LYS:C	2.61	0.43
1:A:3666:ALA:CB	1:A:3669:THR:N	2.54	0.43
1:A:3748:TRP:O	1:A:3752:THR:CA	2.66	0.43
1:B:3378:LYS:O	1:B:3381:GLU:O	2.35	0.43
1:B:3476:ARG:O	1:B:3477:VAL:CB	2.66	0.43
1:A:1842:GLY:CA	1:A:1892:THR:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1843:ALA:CA	1:A:1844:TRP:C	2.90	0.43
1:A:2165:ALA:C	1:A:2167:ASN:N	2.73	0.43
1:A:3890:GLN:CA	1:A:3891:ARG:O	2.67	0.43
1:B:1842:GLY:CA	1:B:1892:THR:N	2.82	0.43
1:B:2820:SER:CB	1:B:2899:SER:CB	2.96	0.43
1:A:4046:THR:C	1:A:4048:ILE:N	2.72	0.43
1:B:1734:PHE:O	1:B:1735:TYR:C	2.61	0.43
1:B:1882:LEU:N	1:B:1885:GLU:O	2.51	0.43
1:B:4035:GLN:HA	1:B:4037:SER:N	2.33	0.43
1:A:3877:CYS:CB	1:A:3879:LEU:HA	2.48	0.43
1:B:1843:ALA:CA	1:B:1844:TRP:C	2.90	0.43
1:B:1847:PHE:C	1:B:1849:GLU:HA	2.44	0.43
1:B:3886:ALA:C	1:B:3890:GLN:CB	2.88	0.43
1:A:1447:GLU:HA	1:A:1448:VAL:C	2.26	0.43
1:A:1734:PHE:O	1:A:1735:TYR:C	2.61	0.43
1:A:2281:PHE:O	1:A:2284:LEU:N	2.51	0.43
1:A:3877:CYS:CB	1:A:3878:HIS:O	2.64	0.43
1:B:2107:LYS:CA	1:B:2503:VAL:O	2.66	0.43
1:B:2452:GLU:C	1:B:2454:ILE:N	2.73	0.43
1:B:2603:CYS:O	1:B:2608:SER:N	2.52	0.43
1:B:3877:CYS:CB	1:B:3879:LEU:HA	2.48	0.43
1:B:3890:GLN:CA	1:B:3891:ARG:O	2.67	0.43
1:A:1833:ARG:C	1:A:1835:LEU:N	2.73	0.43
1:A:2820:SER:CB	1:A:2899:SER:CB	2.96	0.43
1:A:3784:ASN:O	1:A:3893:ASP:HA	2.19	0.43
1:B:1932:MET:C	1:B:1946:ALA:HB1	2.37	0.43
1:B:1951:HIS:O	1:B:1955:LEU:N	2.52	0.43
1:B:3361:ASP:O	1:B:3362:VAL:CB	2.65	0.43
1:A:1869:GLN:O	1:A:1873:GLN:CA	2.61	0.43
1:B:2410:SER:CB	1:B:2528:ARG:O	2.67	0.43
1:A:2130:PHE:C	1:A:2132:SER:H	2.27	0.43
1:A:2384:GLU:O	1:A:2387:ARG:N	2.48	0.43
1:B:1823:ASP:O	1:B:1853:LEU:O	2.36	0.43
1:B:2940:PHE:HA	1:B:2941:THR:CB	2.47	0.43
1:B:3503:GLY:C	1:B:3505:ILE:N	2.68	0.43
1:A:1823:ASP:O	1:A:1853:LEU:O	2.36	0.43
1:A:2608:SER:N	1:A:2609:THR:CB	2.82	0.43
1:A:3899:ASP:C	1:A:3900:ILE:HA	2.41	0.43
1:A:2603:CYS:O	1:A:2608:SER:N	2.52	0.42
1:B:2608:SER:N	1:B:2609:THR:CB	2.82	0.42
1:B:3890:GLN:CA	1:B:3891:ARG:C	2.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2410:SER:CB	1:A:2528:ARG:O	2.67	0.42
1:A:4027:VAL:C	1:A:4029:ILE:CB	2.92	0.42
1:A:1447:GLU:HA	1:A:1448:VAL:CB	2.49	0.42
1:A:1498:GLU:O	1:A:1499:VAL:C	2.61	0.42
1:A:1932:MET:CB	1:A:1946:ALA:O	2.68	0.42
1:A:2708:ASN:N	1:A:2709:LYS:CB	2.83	0.42
1:A:3685:GLN:O	1:A:3686:PHE:CB	2.64	0.42
1:A:3998:ILE:CB	1:A:3999:ASP:CB	2.98	0.42
1:A:3568:GLU:O	1:A:3571:ASN:CB	2.67	0.42
1:B:1735:TYR:C	1:B:1755:LEU:C	2.87	0.42
1:B:2281:PHE:O	1:B:2284:LEU:N	2.51	0.42
1:B:3748:TRP:C	1:B:3750:TYR:N	2.78	0.42
1:A:2397:THR:O	1:A:2398:ILE:C	2.61	0.42
1:A:3410:PRO:O	1:A:3412:SER:N	2.53	0.42
1:B:1498:GLU:O	1:B:1499:VAL:C	2.61	0.42
1:B:2200:ASP:C	1:B:2202:THR:N	2.77	0.42
1:B:3784:ASN:O	1:B:3893:ASP:HA	2.19	0.42
1:A:2200:ASP:C	1:A:2202:THR:N	2.77	0.42
1:A:3377:MET:O	1:A:3381:GLU:N	2.37	0.42
1:B:2383:HIS:O	1:B:2386:MET:N	2.47	0.42
1:B:4068:GLU:O	1:B:4069:SER:CB	2.67	0.42
1:B:1447:GLU:HA	1:B:1448:VAL:CB	2.49	0.42
1:B:3499:CYS:O	1:B:3500:ASP:C	2.62	0.42
1:B:4027:VAL:C	1:B:4029:ILE:CB	2.92	0.42
1:A:1847:PHE:C	1:A:1849:GLU:HA	2.44	0.42
1:A:3475:ASN:O	1:A:3485:GLU:CA	2.68	0.42
1:A:3899:ASP:CB	1:A:3900:ILE:CA	2.95	0.42
1:B:2145:PHE:HA	1:B:2146:LYS:HA	1.68	0.42
1:B:2708:ASN:N	1:B:2709:LYS:CB	2.83	0.42
1:B:3475:ASN:O	1:B:3485:GLU:CA	2.68	0.42
1:A:2343:ASN:O	1:A:2345:TYR:N	2.53	0.42
1:A:2575:TYR:O	1:A:2576:LYS:O	2.38	0.42
1:B:2575:TYR:O	1:B:2576:LYS:O	2.38	0.42
1:B:3410:PRO:O	1:B:3412:SER:N	2.53	0.42
1:B:3568:GLU:O	1:B:3571:ASN:CB	2.67	0.42
1:B:3998:ILE:CB	1:B:3999:ASP:CB	2.98	0.42
1:A:1447:GLU:C	1:A:1449:GLN:H	2.24	0.42
1:A:1872:LEU:C	1:A:1874:VAL:H	2.24	0.42
1:A:3336:HIS:C	1:A:3517:HIS:CB	2.93	0.42
1:A:3842:GLN:O	1:A:3843:ASN:CB	2.67	0.42
1:B:1932:MET:CB	1:B:1946:ALA:O	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2787:HIS:C	1:B:3458:PHE:CB	2.93	0.42
1:A:1861:VAL:O	1:A:1864:ASN:N	2.53	0.41
1:A:3431:PHE:HA	1:A:3432:LEU:C	2.44	0.41
1:B:1861:VAL:O	1:B:1864:ASN:N	2.53	0.41
1:B:2343:ASN:O	1:B:2345:TYR:N	2.53	0.41
1:B:2442:GLY:CA	1:B:2485:PHE:CB	2.92	0.41
1:B:2452:GLU:O	1:B:2455:LEU:N	2.53	0.41
1:B:2540:ASP:O	1:B:2542:GLY:O	2.38	0.41
1:B:3842:GLN:O	1:B:3843:ASN:CB	2.67	0.41
1:A:1735:TYR:C	1:A:1755:LEU:C	2.87	0.41
1:A:1781:THR:O	1:A:1784:ASP:N	2.53	0.41
1:A:2238:ASP:O	1:A:2239:ASN:C	2.59	0.41
1:B:1833:ARG:O	1:B:1836:VAL:N	2.53	0.41
2:S:60:GLY:C	2:S:62:VAL:N	2.77	0.41
1:A:3364:TYR:C	1:A:3366:PHE:N	2.78	0.41
1:B:1837:GLY:O	1:B:1841:ILE:CB	2.68	0.41
1:B:2096:GLY:CA	1:B:2146:LYS:CB	2.98	0.41
1:B:3336:HIS:C	1:B:3517:HIS:CB	2.93	0.41
1:B:3410:PRO:N	1:B:3411:SER:CA	2.83	0.41
1:A:1865:ILE:O	1:A:1869:GLN:CB	2.69	0.41
1:A:2301:TRP:C	1:A:2302:PHE:O	2.63	0.41
1:A:1495:THR:O	1:A:1496:THR:C	2.63	0.41
1:A:1843:ALA:CB	1:A:1844:TRP:CA	2.37	0.41
1:A:3815:PRO:O	1:A:3816:LEU:CB	2.69	0.41
1:B:2397:THR:O	1:B:2398:ILE:C	2.61	0.41
1:A:1418:SER:HA	1:A:1419:ASN:HA	1.91	0.41
1:A:2787:HIS:C	1:A:3458:PHE:CB	2.93	0.41
1:B:2149:ARG:O	1:B:2190:PHE:CA	2.69	0.41
1:B:3462:ILE:O	1:B:3465:LEU:N	2.53	0.41
1:B:3466:ILE:O	1:B:3470:PHE:CB	2.69	0.41
1:B:3990:ALA:O	1:B:3993:VAL:CB	2.60	0.41
1:A:2539:THR:C	1:A:2541:PRO:N	2.74	0.41
1:A:3476:ARG:O	1:A:3477:VAL:CB	2.66	0.41
1:A:3807:SER:HA	1:A:3809:GLU:CB	2.50	0.41
1:A:4068:GLU:O	1:A:4069:SER:CB	2.67	0.41
1:A:2301:TRP:N	1:A:2302:PHE:N	2.69	0.41
1:A:2395:ILE:O	1:A:2396:ASP:C	2.64	0.41
1:A:3664:THR:O	1:A:3665:ARG:C	2.64	0.41
1:B:1826:PHE:O	1:B:1827:ASP:O	2.38	0.41
1:B:3431:PHE:HA	1:B:3432:LEU:C	2.44	0.41
1:B:3664:THR:O	1:B:3665:ARG:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3784:ASN:O	1:B:3893:ASP:CB	2.69	0.41
1:A:1826:PHE:O	1:A:1827:ASP:O	2.38	0.41
1:A:1833:ARG:O	1:A:1836:VAL:N	2.53	0.41
1:A:1837:GLY:O	1:A:1841:ILE:CB	2.68	0.41
1:A:1969:GLY:C	1:A:1971:ARG:N	2.76	0.41
1:A:2452:GLU:O	1:A:2455:LEU:N	2.53	0.41
1:A:3462:ILE:O	1:A:3465:LEU:N	2.53	0.41
1:A:3499:CYS:O	1:A:3500:ASP:C	2.62	0.41
1:A:3739:ASP:C	1:A:3743:ASP:H	2.26	0.41
1:A:3784:ASN:O	1:A:3893:ASP:CB	2.69	0.41
1:B:1969:GLY:C	1:B:1971:ARG:N	2.77	0.41
1:B:2099:ASN:HA	1:B:2100:VAL:HA	1.87	0.41
1:B:2301:TRP:C	1:B:2302:PHE:O	2.63	0.41
1:B:3364:TYR:C	1:B:3366:PHE:N	2.78	0.41
1:B:3409:ASP:C	1:B:3414:MET:CB	2.94	0.41
1:B:3409:ASP:O	1:B:3411:SER:HA	2.19	0.41
1:B:3762:TRP:C	1:B:3764:LYS:N	2.78	0.41
1:B:4058:SER:O	1:B:4061:SER:N	2.52	0.41
2:S:23:LEU:O	2:S:25:GLU:N	2.54	0.41
1:A:2096:GLY:CA	1:A:2146:LYS:CB	2.98	0.41
1:A:2578:ILE:C	1:A:2580:LYS:N	2.49	0.41
1:A:2600:TYR:CB	1:A:2613:SER:CB	2.98	0.41
1:A:3653:PHE:O	1:A:3654:LYS:C	2.63	0.41
1:A:4010:LEU:O	1:A:4013:HIS:N	2.54	0.41
1:B:2199:LEU:C	1:B:2202:THR:H	2.29	0.41
1:B:2600:TYR:CB	1:B:2613:SER:CB	2.98	0.41
1:B:4010:LEU:O	1:B:4013:HIS:N	2.54	0.41
1:A:3466:ILE:O	1:A:3470:PHE:CB	2.69	0.40
1:B:1495:THR:O	1:B:1496:THR:C	2.63	0.40
1:B:1865:ILE:O	1:B:1869:GLN:CB	2.69	0.40
1:B:2535:CYS:O	1:B:2537:PRO:N	2.54	0.40
2:T:177:CYS:O	2:T:178:PHE:C	2.64	0.40
1:A:2149:ARG:O	1:A:2190:PHE:CA	2.69	0.40
1:A:2540:ASP:O	1:A:2542:GLY:O	2.38	0.40
1:A:2733:VAL:CB	1:A:2734:ILE:CA	3.00	0.40
1:A:3462:ILE:O	1:A:3464:ARG:N	2.55	0.40
1:B:1843:ALA:CB	1:B:1844:TRP:C	2.93	0.40
1:B:2169:VAL:HA	1:B:2170:LEU:HA	1.73	0.40
1:B:2395:ILE:O	1:B:2396:ASP:C	2.64	0.40
1:A:3409:ASP:C	1:A:3414:MET:CB	2.94	0.40
1:A:3878:HIS:HA	1:A:3879:LEU:C	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1635:ASP:HA	1:B:1636:ILE:HA	1.69	0.40
1:B:2301:TRP:N	1:B:2302:PHE:N	2.69	0.40
1:B:2733:VAL:CB	1:B:2734:ILE:CA	3.00	0.40
1:B:3815:PRO:O	1:B:3816:LEU:CB	2.69	0.40
1:B:3843:ASN:C	1:B:3845:GLN:N	2.79	0.40
1:B:1941:ASP:C	1:B:1942:SER:HA	2.36	0.40
1:B:2165:ALA:O	1:B:2167:ASN:N	2.55	0.40
1:B:2861:ARG:CA	1:B:2868:ASP:CB	2.98	0.40
1:B:3807:SER:HA	1:B:3809:GLU:CB	2.50	0.40
2:T:73:TYR:O	2:T:74:ILE:C	2.63	0.40
1:A:1781:THR:O	1:A:1783:THR:N	2.55	0.40
1:A:1861:VAL:O	1:A:1863:ALA:N	2.55	0.40
1:A:1951:HIS:O	1:A:1955:LEU:N	2.52	0.40
1:A:2686:LEU:H	1:A:2687:GLY:CA	2.22	0.40
1:B:1833:ARG:O	1:B:1835:LEU:N	2.55	0.40
1:B:1861:VAL:O	1:B:1863:ALA:N	2.55	0.40

All (3) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2245:GLU:N	1:B:2241:LEU:CB[1_554]	1.43	0.77
1:A:2245:GLU:CA	1:B:2241:LEU:CB[1_554]	1.81	0.39
1:A:2245:GLU:CB	1:B:2241:LEU:CB[1_554]	2.05	0.15

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	2039/2486 (82%)	1605 (79%)	307 (15%)	127 (6%)	1	12
1	B	2039/2486 (82%)	1605 (79%)	308 (15%)	126 (6%)	1	12

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	S	214/219 (98%)	194 (91%)	16 (8%)	4 (2%)	6	32
2	T	214/219 (98%)	190 (89%)	20 (9%)	4 (2%)	6	32
All	All	4506/5410 (83%)	3594 (80%)	651 (14%)	261 (6%)	1	13

All (261) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1470	PRO
1	A	1494	ASP
1	A	1498	GLU
1	A	1635	ASP
1	A	1637	GLU
1	A	1748	PHE
1	A	1887	PRO
1	A	1917	ARG
1	A	1940	GLU
1	A	2108	VAL
1	A	2185	PRO
1	A	2187	PRO
1	A	2188	PRO
1	A	2302	PHE
1	A	2330	SER
1	A	2375	ILE
1	A	2376	PRO
1	A	2380	LEU
1	A	2388	PRO
1	A	2391	VAL
1	A	2393	PRO
1	A	2395	ILE
1	A	2419	PRO
1	A	2420	PRO
1	A	2433	ARG
1	A	2525	THR
1	A	2536	ASN
1	A	2540	ASP
1	A	2543	ARG
1	A	2553	HIS
1	A	2576	LYS
1	A	2578	ILE
1	A	2682	PRO
1	A	2758	LEU

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Mol	Chain	Res	Type
1	A	2874	TYR
1	A	2894	PRO
1	A	2910	ASN
1	A	2913	ILE
1	A	3362	VAL
1	A	3370	LEU
1	A	3371	VAL
1	A	3405	PRO
1	A	3410	PRO
1	A	3453	GLN
1	A	3454	ASP
1	A	3458	PHE
1	A	3479	VAL
1	A	3485	GLU
1	A	3500	ASP
1	A	3501	PRO
1	A	3502	SER
1	A	3762	TRP
1	A	3807	SER
1	A	3809	GLU
1	A	3862	THR
1	A	4029	ILE
1	A	4031	GLN
1	A	4066	PRO
1	B	1470	PRO
1	B	1494	ASP
1	B	1498	GLU
1	B	1635	ASP
1	B	1637	GLU
1	B	1748	PHE
1	B	1887	PRO
1	B	1917	ARG
1	B	1940	GLU
1	B	2108	VAL
1	B	2185	PRO
1	B	2187	PRO
1	B	2188	PRO
1	B	2302	PHE
1	B	2330	SER
1	B	2375	ILE
1	B	2376	PRO
1	B	2380	LEU

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Mol	Chain	Res	Type
1	B	2388	PRO
1	B	2391	VAL
1	B	2393	PRO
1	B	2395	ILE
1	B	2419	PRO
1	B	2420	PRO
1	B	2433	ARG
1	B	2525	THR
1	B	2536	ASN
1	B	2540	ASP
1	B	2543	ARG
1	B	2553	HIS
1	B	2576	LYS
1	B	2578	ILE
1	B	2682	PRO
1	B	2758	LEU
1	B	2874	TYR
1	B	2894	PRO
1	B	2910	ASN
1	B	2913	ILE
1	B	3362	VAL
1	B	3370	LEU
1	B	3371	VAL
1	B	3405	PRO
1	B	3410	PRO
1	B	3453	GLN
1	B	3454	ASP
1	B	3458	PHE
1	B	3479	VAL
1	B	3485	GLU
1	B	3500	ASP
1	B	3501	PRO
1	B	3502	SER
1	B	3762	TRP
1	B	3807	SER
1	B	3809	GLU
1	B	3862	THR
1	B	4029	ILE
1	B	4031	GLN
1	B	4066	PRO
1	A	1970	LEU
1	A	2095	ASP

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Mol	Chain	Res	Type
1	A	2104	ILE
1	A	2131	THR
1	A	2186	ILE
1	A	2328	GLY
1	A	2329	ASP
1	A	2370	SER
1	A	2377	SER
1	A	2396	ASP
1	A	2445	PHE
1	A	2519	PRO
1	A	2533	GLY
1	A	2580	LYS
1	A	3641	PHE
1	A	3740	THR
1	A	3923	VAL
1	B	1970	LEU
1	B	2095	ASP
1	B	2104	ILE
1	B	2131	THR
1	B	2186	ILE
1	B	2328	GLY
1	B	2329	ASP
1	B	2370	SER
1	B	2377	SER
1	B	2396	ASP
1	B	2445	PHE
1	B	2519	PRO
1	B	2533	GLY
1	B	2580	LYS
1	B	3641	PHE
1	B	3740	THR
1	B	3923	VAL
2	T	24	GLU
1	A	1400	VAL
1	A	1550	GLY
1	A	1582	VAL
1	A	1873	GLN
1	A	2066	THR
1	A	2079	GLY
1	A	2080	LYS
1	A	2209	ARG
1	A	2255	ASP

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Mol	Chain	Res	Type
1	A	2344	THR
1	A	2637	PRO
1	A	2843	LEU
1	A	2908	LEU
1	A	2945	VAL
1	A	3755	SER
1	A	3808	LYS
1	A	3884	LEU
1	A	3900	ILE
1	A	3901	PRO
1	A	3998	ILE
1	B	1400	VAL
1	B	1550	GLY
1	B	1582	VAL
1	B	1873	GLN
1	B	2066	THR
1	B	2079	GLY
1	B	2080	LYS
1	B	2209	ARG
1	B	2255	ASP
1	B	2344	THR
1	B	2397	THR
1	B	2637	PRO
1	B	2843	LEU
1	B	2908	LEU
1	B	2945	VAL
1	B	3755	SER
1	B	3808	LYS
1	B	3884	LEU
1	B	3900	ILE
1	B	3901	PRO
1	B	3998	ILE
2	T	66	GLN
2	T	115	GLU
2	S	10	LYS
2	S	24	GLU
2	S	66	GLN
1	A	1754	TYR
1	A	1755	LEU
1	A	2141	ILE
1	A	2397	THR
1	A	2443	ILE

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Mol	Chain	Res	Type
1	A	2526	ILE
1	A	3481	ILE
1	A	3752	THR
1	A	3885	PRO
1	A	3922	GLY
1	B	1754	TYR
1	B	1755	LEU
1	B	2141	ILE
1	B	2443	ILE
1	B	2526	ILE
1	B	3481	ILE
1	B	3752	THR
1	B	3885	PRO
1	B	3922	GLY
1	A	1551	SER
1	A	1749	ILE
1	A	1789	LYS
1	A	2541	PRO
1	A	2681	LEU
1	A	3365	ARG
1	A	4030	PRO
1	B	1551	SER
1	B	1749	ILE
1	B	1789	LYS
1	B	2541	PRO
1	B	2681	LEU
1	B	3365	ARG
1	B	4030	PRO
2	S	53	ASN
1	A	2184	LEU
1	A	3377	MET
1	A	4032	PRO
1	B	2184	LEU
1	B	3377	MET
1	B	4032	PRO
2	T	52	PRO
1	A	3738	VAL
1	B	3644	ILE
1	B	3738	VAL
1	A	2100	VAL
1	A	2169	VAL
1	A	3477	VAL

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Mol	Chain	Res	Type
1	A	3644	ILE
1	B	2100	VAL
1	B	2169	VAL
1	B	3477	VAL
1	A	1747	VAL
1	A	2760	GLY
1	B	1747	VAL
1	B	2760	GLY
1	A	2655	ILE
1	A	3902	GLY
1	B	2655	ILE
1	B	3902	GLY
1	A	1817	VAL
1	A	2003	LEU
1	A	2537	PRO
1	B	1817	VAL
1	B	2537	PRO

5.3.2 Protein sidechains [i](#)

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	109
1	B	109

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	1756:LEU	C	1776:LEU	N	12.66
1	B	1756:LEU	C	1776:LEU	N	12.66
1	A	3028:VAL	C	3289:LEU	N	11.45
1	B	3028:VAL	C	3289:LEU	N	11.45
1	A	3981:PRO	C	3982:TRP	N	5.84
1	B	3981:PRO	C	3982:TRP	N	5.84
1	A	3512:ARG	C	3513:VAL	N	3.51
1	B	3512:ARG	C	3513:VAL	N	3.51
1	A	1814:GLY	C	1815:ARG	N	3.45
1	B	1814:GLY	C	1815:ARG	N	3.45
1	A	2441:VAL	C	2442:GLY	N	2.81
1	B	2441:VAL	C	2442:GLY	N	2.81
1	A	3899:ASP	C	3900:ILE	N	1.89
1	B	3899:ASP	C	3900:ILE	N	1.89
1	A	3754:LYS	C	3755:SER	N	1.84
1	B	3754:LYS	C	3755:SER	N	1.84
1	A	3360:TYR	C	3361:ASP	N	1.82
1	B	3360:TYR	C	3361:ASP	N	1.82
1	A	2709:LYS	C	2710:THR	N	1.79
1	B	2709:LYS	C	2710:THR	N	1.79
1	A	1815:ARG	C	1816:VAL	N	1.75
1	B	1815:ARG	C	1816:VAL	N	1.75
1	A	1986:GLU	C	1987:PHE	N	1.72
1	A	2301:TRP	C	2302:PHE	N	1.72
1	B	1986:GLU	C	1987:PHE	N	1.72
1	B	2301:TRP	C	2302:PHE	N	1.72
1	A	1466:GLN	C	1467:ASN	N	1.70
1	B	1466:GLN	C	1467:ASN	N	1.70
1	A	1844:TRP	C	1845:GLY	N	1.69

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	1844:TRP	C	1845:GLY	N	1.69
1	A	1941:ASP	C	1942:SER	N	1.68
1	A	2774:ALA	C	2775:TRP	N	1.68
1	B	1941:ASP	C	1942:SER	N	1.68
1	B	2774:ALA	C	2775:TRP	N	1.68
1	A	2158:LEU	C	2159:ASP	N	1.66
1	A	3334:PHE	C	3335:GLY	N	1.66
1	A	3755:SER	C	3756:TYR	N	1.66
1	B	2158:LEU	C	2159:ASP	N	1.66
1	B	3334:PHE	C	3335:GLY	N	1.66
1	B	3755:SER	C	3756:TYR	N	1.66
1	A	3923:VAL	C	3924:TRP	N	1.65
1	B	3923:VAL	C	3924:TRP	N	1.65
1	A	2118:MET	C	2119:LEU	N	1.64
1	B	2118:MET	C	2119:LEU	N	1.64
1	A	2346:PHE	C	2347:GLY	N	1.63
1	A	2655:ILE	C	2656:PHE	N	1.63
1	B	2346:PHE	C	2347:GLY	N	1.63
1	B	2655:ILE	C	2656:PHE	N	1.63
1	A	1494:ASP	C	1495:THR	N	1.62
1	A	1892:THR	C	1893:ALA	N	1.62
1	A	2436:SER	C	2437:LEU	N	1.62
1	A	2579:PHE	C	2580:LYS	N	1.62
1	A	3333:TYR	C	3334:PHE	N	1.62
1	A	3642:TYR	C	3643:GLY	N	1.62
1	A	3996:GLY	C	3997:LYS	N	1.62
1	B	1494:ASP	C	1495:THR	N	1.62
1	B	1892:THR	C	1893:ALA	N	1.62
1	B	2436:SER	C	2437:LEU	N	1.62
1	B	2579:PHE	C	2580:LYS	N	1.62
1	B	3333:TYR	C	3334:PHE	N	1.62
1	B	3642:TYR	C	3643:GLY	N	1.62
1	B	3996:GLY	C	3997:LYS	N	1.62
1	A	1632:ASP	C	1633:GLY	N	1.61
1	A	1985:SER	C	1986:GLU	N	1.61
1	A	2574:TYR	C	2575:TYR	N	1.61
1	A	3499:CYS	C	3500:ASP	N	1.61
1	A	3892:THR	C	3893:ASP	N	1.61
1	A	3901:PRO	C	3902:GLY	N	1.61
1	B	1632:ASP	C	1633:GLY	N	1.61
1	B	1985:SER	C	1986:GLU	N	1.61
1	B	2574:TYR	C	2575:TYR	N	1.61

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	3499:CYS	C	3500:ASP	N	1.61
1	B	3892:THR	C	3893:ASP	N	1.61
1	B	3901:PRO	C	3902:GLY	N	1.61
1	A	2561:TYR	C	2562:PRO	N	1.60
1	A	2758:LEU	C	2759:ILE	N	1.60
1	A	3500:ASP	C	3501:PRO	N	1.60
1	A	4035:GLN	C	4036:GLN	N	1.60
1	B	2561:TYR	C	2562:PRO	N	1.60
1	B	2758:LEU	C	2759:ILE	N	1.60
1	B	3500:ASP	C	3501:PRO	N	1.60
1	B	4035:GLN	C	4036:GLN	N	1.60
1	A	1495:THR	C	1496:THR	N	1.20
1	A	3682:VAL	C	3683:TYR	N	1.20
1	B	1495:THR	C	1496:THR	N	1.20
1	B	3682:VAL	C	3683:TYR	N	1.20
1	A	1497:ILE	C	1498:GLU	N	1.19
1	A	2555:ALA	C	2556:ILE	N	1.19
1	A	2726:GLU	C	2727:GLU	N	1.19
1	A	2757:MET	C	2758:LEU	N	1.19
1	B	1497:ILE	C	1498:GLU	N	1.19
1	B	2555:ALA	C	2556:ILE	N	1.19
1	B	2726:GLU	C	2727:GLU	N	1.19
1	B	2757:MET	C	2758:LEU	N	1.19
1	A	1478:SER	C	1479:LEU	N	1.18
1	A	2108:VAL	C	2109:LEU	N	1.18
1	A	2308:LYS	C	2309:SER	N	1.18
1	A	2430:ASN	C	2431:ALA	N	1.18
1	A	2444:ASN	C	2445:PHE	N	1.18
1	A	3795:ASP	C	3796:GLY	N	1.18
1	B	1478:SER	C	1479:LEU	N	1.18
1	B	2108:VAL	C	2109:LEU	N	1.18
1	B	2308:LYS	C	2309:SER	N	1.18
1	B	2373:SER	C	2374:GLU	N	1.18
1	B	2430:ASN	C	2431:ALA	N	1.18
1	B	2444:ASN	C	2445:PHE	N	1.18
1	B	3795:ASP	C	3796:GLY	N	1.18
1	A	1848:ASP	C	1849:GLU	N	1.17
1	A	1871:GLY	C	1872:LEU	N	1.17
1	A	1888:LEU	C	1889:SER	N	1.17
1	A	1969:GLY	C	1970:LEU	N	1.17
1	A	2196:THR	C	2197:ASP	N	1.17
1	A	2373:SER	C	2374:GLU	N	1.17

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	2523:TRP	C	2524:VAL	N	1.17
1	B	1848:ASP	C	1849:GLU	N	1.17
1	B	1871:GLY	C	1872:LEU	N	1.17
1	B	1888:LEU	C	1889:SER	N	1.17
1	B	2196:THR	C	2197:ASP	N	1.17
1	B	2523:TRP	C	2524:VAL	N	1.17
1	A	2157:ASP	C	2158:LEU	N	1.16
1	A	2462:THR	C	2463:ASN	N	1.16
1	A	2638:ARG	C	2639:GLN	N	1.16
1	A	3503:GLY	C	3504:ASP	N	1.16
1	B	1969:GLY	C	1970:LEU	N	1.16
1	B	2157:ASP	C	2158:LEU	N	1.16
1	B	2462:THR	C	2463:ASN	N	1.16
1	B	2638:ARG	C	2639:GLN	N	1.16
1	B	3503:GLY	C	3504:ASP	N	1.16
1	A	1498:GLU	C	1499:VAL	N	1.15
1	A	1812:ASN	C	1813:LEU	N	1.15
1	A	1983:LEU	C	1984:ILE	N	1.15
1	A	2447:LYS	C	2448:ASP	N	1.15
1	A	2607:TYR	C	2608:SER	N	1.15
1	A	2961:ILE	C	2962:ARG	N	1.15
1	A	3359:LYS	C	3360:TYR	N	1.15
1	B	1498:GLU	C	1499:VAL	N	1.15
1	B	1812:ASN	C	1813:LEU	N	1.15
1	B	2447:LYS	C	2448:ASP	N	1.15
1	B	2607:TYR	C	2608:SER	N	1.15
1	B	2961:ILE	C	2962:ARG	N	1.15
1	B	3359:LYS	C	3360:TYR	N	1.15
1	B	3405:PRO	C	3406:PHE	N	1.15
1	A	2200:ASP	C	2201:HIS	N	1.14
1	A	2309:SER	C	2310:LEU	N	1.14
1	A	2689:ILE	C	2690:SER	N	1.14
1	A	3405:PRO	C	3406:PHE	N	1.14
1	B	1983:LEU	C	1984:ILE	N	1.14
1	B	2200:ASP	C	2201:HIS	N	1.14
1	B	2309:SER	C	2310:LEU	N	1.14
1	B	2689:ILE	C	2690:SER	N	1.14
1	A	1800:THR	C	1801:GLY	N	1.13
1	A	2005:SER	C	2006:LEU	N	1.13
1	A	3666:ALA	C	3667:ALA	N	1.13
1	A	4033:LEU	C	4034:LEU	N	1.13
1	A	4036:GLN	C	4037:SER	N	1.13

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	2005:SER	C	2006:LEU	N	1.13
1	B	3666:ALA	C	3667:ALA	N	1.13
1	B	4036:GLN	C	4037:SER	N	1.13
1	A	2018:LEU	C	2019:SER	N	1.12
1	B	1800:THR	C	1801:GLY	N	1.12
1	B	2018:LEU	C	2019:SER	N	1.12
1	B	4033:LEU	C	4034:LEU	N	1.12
1	A	3640:TRP	C	3641:PHE	N	1.11
1	B	3640:TRP	C	3641:PHE	N	1.11
1	A	2199:LEU	C	2200:ASP	N	1.10
1	A	2540:ASP	C	2541:PRO	N	1.10
1	A	2637:PRO	C	2638:ARG	N	1.10
1	B	2199:LEU	C	2200:ASP	N	1.10
1	B	2540:ASP	C	2541:PRO	N	1.10
1	B	2637:PRO	C	2638:ARG	N	1.10
1	A	1430:ASP	C	1431:LEU	N	1.09
1	A	1849:GLU	C	1850:PHE	N	1.09
1	B	1430:ASP	C	1431:LEU	N	1.09
1	B	1849:GLU	C	1850:PHE	N	1.09
1	A	2460:ARG	C	2461:HIS	N	1.08
1	A	3504:ASP	C	3505:ILE	N	1.08
1	B	2460:ARG	C	2461:HIS	N	1.08
1	B	3504:ASP	C	3505:ILE	N	1.08
1	A	2101:VAL	C	2102:TYR	N	1.07
1	A	3684:CYS	C	3685:GLN	N	1.07
1	B	2101:VAL	C	2102:TYR	N	1.07
1	B	3684:CYS	C	3685:GLN	N	1.07
1	A	1891:HIS	C	1892:THR	N	1.05
1	B	1891:HIS	C	1892:THR	N	1.05
1	A	3565:ARG	C	3566:LEU	N	1.04
1	B	3565:ARG	C	3566:LEU	N	1.04
1	A	1635:ASP	C	1636:ILE	N	1.02
1	A	2432:LEU	C	2433:ARG	N	1.02
1	B	1635:ASP	C	1636:ILE	N	1.02
1	B	2432:LEU	C	2433:ARG	N	1.02
1	A	1802:LYS	C	1803:THR	N	1.01
1	A	1962:SER	C	1963:MET	N	1.01
1	B	1802:LYS	C	1803:THR	N	1.01
1	B	1962:SER	C	1963:MET	N	1.01
1	A	3457:PHE	C	3458:PHE	N	1.00
1	B	3457:PHE	C	3458:PHE	N	1.00
1	A	1877:SER	C	1878:HIS	N	0.99

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	2279:ARG	C	2280:THR	N	0.99
1	B	1877:SER	C	1878:HIS	N	0.99
1	B	2279:ARG	C	2280:THR	N	0.99
1	A	2002:ILE	C	2003:LEU	N	0.98
1	B	2002:ILE	C	2003:LEU	N	0.98
1	A	4015:PHE	C	4016:CYS	N	0.97
1	B	4015:PHE	C	4016:CYS	N	0.97
1	A	1801:GLY	C	1802:LYS	N	0.95
1	B	1801:GLY	C	1802:LYS	N	0.95
1	A	2936:VAL	C	2937:PRO	N	0.93
1	B	2936:VAL	C	2937:PRO	N	0.93
1	A	3382:CYS	C	3383:GLY	N	0.92
1	B	3382:CYS	C	3383:GLY	N	0.92
1	A	2147:ASN	C	2148:SER	N	0.90
1	B	2147:ASN	C	2148:SER	N	0.90
1	A	2103:VAL	C	2104:ILE	N	0.88
1	B	2103:VAL	C	2104:ILE	N	0.88
1	A	3426:THR	C	3427:VAL	N	0.75
1	B	3426:THR	C	3427:VAL	N	0.75
1	A	4047:ALA	C	4048:ILE	N	0.64
1	B	4047:ALA	C	4048:ILE	N	0.64

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	2136/2486 (85%)	2.53	1117 (52%) 0 3	183, 210, 384, 480	0
1	B	2136/2486 (85%)	2.59	1227 (57%) 0 2	183, 210, 384, 480	0
2	S	216/219 (98%)	3.61	171 (79%) 0 1	209, 233, 253, 268	0
2	T	216/219 (98%)	2.98	145 (67%) 0 2	201, 219, 248, 273	0
All	All	4704/5410 (86%)	2.63	2660 (56%) 0 3	183, 210, 376, 480	0

All (2660) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	2156	SER	16.3
1	A	2535	CYS	15.7
1	B	2917	MET	15.7
1	A	2724	CYS	15.1
1	A	1811	GLN	15.0
1	A	4016	CYS	14.2
1	B	2462	THR	13.7
1	A	2837	ASN	13.6
1	A	2580	LYS	13.2
2	S	75	ALA	12.9
1	B	3753	THR	12.6
1	A	1745	ASN	12.4
1	A	2579	PHE	12.3
1	B	3350	LYS	12.2
1	A	2156	SER	12.1
1	B	2373	SER	12.0
1	A	3817	GLY	11.8
1	A	3681	GLU	11.7
1	A	4056	ALA	11.5
1	A	3998	ILE	10.8
1	B	3680	GLN	10.7

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Mol	Chain	Res	Type	RSRZ
1	B	2431	ALA	10.7
1	A	3894	ARG	10.6
2	T	52	PRO	10.5
1	B	3929	THR	10.5
1	B	2789	HIS	10.4
2	S	76	ASP	10.3
1	A	3572	ASN	10.3
2	S	180	LYS	10.2
1	B	3684	CYS	10.1
1	A	2521	ASN	10.1
2	S	179	LYS	10.0
2	S	80	MET	10.0
1	B	3749	ASP	10.0
1	B	1883	GLU	9.9
1	B	3742	ASP	9.6
1	B	2837	ASN	9.6
1	A	1604	ALA	9.6
1	B	2389	ASP	9.6
1	A	4039	GLU	9.3
1	B	2989	PRO	9.3
1	A	2020	LYS	9.3
1	A	3896	VAL	9.2
1	A	1812	ASN	9.1
1	B	2892	CYS	9.1
1	B	2776	LEU	8.9
1	A	2210	CYS	8.9
1	A	2157	ASP	8.8
2	S	72	ARG	8.8
1	A	3313	PHE	8.7
1	B	4064	GLN	8.7
1	A	2632	ALA	8.7
1	A	2825	THR	8.6
1	B	1416	LYS	8.6
1	A	2077	GLY	8.6
1	A	2552	ARG	8.5
1	B	2417	CYS	8.5
1	B	2556	ILE	8.4
1	A	3895	VAL	8.4
1	B	2486	CYS	8.4
1	A	2545	PRO	8.4
1	B	1568	SER	8.3
2	S	157	ALA	8.3

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Mol	Chain	Res	Type	RSRZ
1	A	3997	LYS	8.3
2	T	208	THR	8.3
1	A	1694	VAL	8.3
1	A	2106	THR	8.3
1	A	2105	ASP	8.2
1	A	2760	GLY	8.1
1	A	3999	ASP	8.1
1	B	3926	VAL	8.1
1	A	2623	THR	8.1
1	A	2172	ASP	8.1
1	A	3797	THR	8.0
2	T	211	GLY	8.0
1	B	2825	THR	8.0
1	A	1744	LEU	7.9
1	A	2074	GLY	7.9
1	B	2895	THR	7.9
2	S	149	HIS	7.9
1	A	3884	LEU	7.9
1	A	2409	ASN	7.9
2	S	19	LEU	7.9
1	A	3753	THR	7.8
1	A	2936	VAL	7.8
1	B	2442	GLY	7.8
1	B	2535	CYS	7.8
1	A	2538	PRO	7.8
1	A	2096	GLY	7.8
1	A	2181	GLY	7.8
1	A	2422	SER	7.8
1	A	2312	ASP	7.7
1	A	3680	GLN	7.7
1	A	1551	SER	7.7
1	B	1551	SER	7.7
2	T	104	GLY	7.7
1	A	2486	CYS	7.7
1	B	2465	VAL	7.7
2	T	105	VAL	7.7
1	B	1626	CYS	7.7
1	A	3292	SER	7.6
1	A	1893	ALA	7.6
2	S	81	LEU	7.6
1	B	3526	GLU	7.6
2	T	143	ASN	7.5

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Mol	Chain	Res	Type	RSRZ
1	B	3641	PHE	7.5
2	T	51	PHE	7.5
1	A	2915	ASN	7.5
1	B	2037	CYS	7.5
1	A	1620	PHE	7.5
1	B	2268	CYS	7.5
1	A	3684	CYS	7.4
1	A	1568	SER	7.4
1	B	3469	GLU	7.4
1	B	3743	ASP	7.4
1	B	3985	VAL	7.4
1	B	2077	GLY	7.3
1	A	2776	LEU	7.3
2	S	47	LEU	7.3
1	B	1405	CYS	7.3
1	B	2372	CYS	7.3
1	A	2989	PRO	7.3
1	A	2551	THR	7.3
1	A	3291	ALA	7.3
1	B	1623	PHE	7.3
1	B	2775	TRP	7.2
1	A	1992	LYS	7.2
1	B	4004	LEU	7.2
1	B	2073	VAL	7.2
1	A	2110	THR	7.2
2	S	164	MET	7.2
1	A	3562	LEU	7.2
1	B	2748	ALA	7.2
1	A	2525	THR	7.1
1	A	3498	SER	7.1
1	B	3782	GLU	7.1
1	B	3524	SER	7.1
1	B	2752	VAL	7.1
1	A	1586	GLU	7.1
1	B	3498	SER	7.1
1	A	2173	ASN	7.1
1	A	2734	ILE	7.1
1	B	3456	GLU	7.1
1	A	3548	LEU	7.0
1	B	1627	LEU	7.0
1	A	3006	LYS	7.0
1	B	2137	VAL	7.0

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Mol	Chain	Res	Type	RSRZ
1	A	3652	CYS	7.0
1	B	2422	SER	7.0
1	A	2518	THR	6.9
1	A	3420	ASN	6.9
2	T	210	GLY	6.9
1	B	3475	ASN	6.9
1	A	2108	VAL	6.9
1	A	3017	VAL	6.9
1	B	1421	TYR	6.9
1	B	3984	GLN	6.9
2	S	16	THR	6.9
1	A	2187	PRO	6.9
1	B	3867	GLU	6.9
1	A	2733	VAL	6.9
1	B	1505	PHE	6.9
1	B	2428	MET	6.8
1	B	4016	CYS	6.8
1	A	3504	ASP	6.8
1	B	1413	VAL	6.8
1	B	3499	CYS	6.8
1	A	4036	GLN	6.8
1	B	2008	ASP	6.8
2	T	106	SER	6.7
1	A	2095	ASP	6.7
1	B	3360	TYR	6.7
1	A	2946	PRO	6.7
2	S	150	PRO	6.7
1	B	2450	THR	6.7
2	S	44	LYS	6.7
1	B	1397	GLU	6.7
1	A	2842	ASP	6.7
1	A	1803	THR	6.7
1	A	2298	TYR	6.7
1	A	4003	ASP	6.6
1	A	2211	GLY	6.6
1	A	3880	THR	6.6
1	B	2210	CYS	6.6
1	A	3028	VAL	6.6
1	A	3456	GLU	6.6
1	B	3405	PRO	6.6
1	A	1553	LYS	6.6
1	A	2067	GLN	6.6

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Mol	Chain	Res	Type	RSRZ
1	B	3582	GLU	6.6
1	A	2516	TRP	6.6
1	B	1504	ASN	6.5
1	B	3449	VAL	6.5
1	B	2155	ASP	6.5
2	T	50	GLU	6.5
1	A	2546	MET	6.5
1	A	2436	SER	6.5
1	B	2270	ASN	6.5
1	B	3553	THR	6.5
1	A	2836	ALA	6.5
1	B	2076	ALA	6.5
1	B	1887	PRO	6.5
1	B	1894	VAL	6.5
2	S	62	VAL	6.5
1	A	2155	ASP	6.4
1	B	2081	THR	6.4
1	B	3583	LEU	6.4
1	B	3714	GLN	6.4
1	B	2074	GLY	6.4
1	A	3785	TYR	6.4
1	B	3289	LEU	6.4
1	A	2081	THR	6.4
1	A	2434	ASN	6.3
1	A	2186	ILE	6.3
2	S	188	ILE	6.3
1	B	2641	LEU	6.3
1	A	4013	HIS	6.3
1	A	1513	ILE	6.3
1	A	4027	VAL	6.3
1	A	3873	MET	6.3
1	A	2158	LEU	6.3
2	S	132	PHE	6.3
2	T	81	LEU	6.3
1	B	1567	GLY	6.2
1	B	3875	MET	6.2
2	T	76	ASP	6.2
1	A	1909	PRO	6.2
1	A	2417	CYS	6.2
1	A	1693	ASN	6.2
1	B	2908	LEU	6.2
1	A	2519	PRO	6.2

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Mol	Chain	Res	Type	RSRZ
1	A	2537	PRO	6.2
2	S	40	TRP	6.2
1	A	2640	THR	6.2
1	B	3310	THR	6.2
1	A	3400	SER	6.2
1	A	2419	PRO	6.2
1	A	3453	GLN	6.2
2	S	189	ASP	6.2
2	S	73	TYR	6.2
1	A	2789	HIS	6.2
1	A	3645	SER	6.2
1	B	2724	CYS	6.1
1	B	2068	GLN	6.1
2	T	64	LEU	6.1
2	S	206	GLN	6.1
1	B	3876	THR	6.1
1	A	2607	TYR	6.1
1	A	1876	LYS	6.1
2	T	88	ARG	6.1
2	S	74	ILE	6.1
1	B	2783	GLN	6.1
1	A	3786	PHE	6.1
1	A	1898	LEU	6.1
1	B	2820	SER	6.1
1	B	2145	PHE	6.1
2	S	21	GLU	6.1
1	A	2937	PRO	6.1
1	B	2196	THR	6.0
1	A	3014	GLN	6.0
1	B	4036	GLN	6.0
1	A	2416	LEU	6.0
2	S	216	PRO	6.0
1	A	2762	SER	6.0
1	A	3317	SER	6.0
1	A	3335	GLY	6.0
1	B	2147	ASN	6.0
2	T	209	PHE	6.0
1	A	2861	ARG	5.9
1	B	2842	ASP	5.9
1	B	2436	SER	5.9
1	A	1897	THR	5.9
1	A	3603	GLU	5.9

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Mol	Chain	Res	Type	RSRZ
1	A	2431	ALA	5.9
2	T	57	TYR	5.9
1	A	3892	THR	5.9
1	B	2102	TYR	5.8
1	A	4040	GLU	5.8
1	B	2099	ASN	5.8
1	A	1732	GLN	5.8
1	A	2526	ILE	5.8
1	A	2442	GLY	5.8
1	A	2892	CYS	5.8
1	A	3499	CYS	5.8
2	T	182	ILE	5.8
1	A	3519	VAL	5.8
1	A	4066	PRO	5.8
1	B	4083	SER	5.8
1	A	1846	CYS	5.8
1	A	4000	GLU	5.8
1	B	2589	THR	5.8
1	B	2223	SER	5.8
1	B	2947	GLU	5.8
1	A	1844	TRP	5.8
1	A	3804	ALA	5.8
1	A	3013	ASN	5.8
1	B	1493	LEU	5.8
1	A	2122	THR	5.7
1	B	2502	VAL	5.7
1	B	2521	ASN	5.7
1	B	1553	LYS	5.7
1	B	2525	THR	5.7
1	A	2068	GLN	5.7
1	A	2330	SER	5.7
1	A	1786	LEU	5.7
1	B	2784	PRO	5.7
1	B	3432	LEU	5.7
1	B	3357	ALA	5.7
1	A	3659	LYS	5.7
1	B	2551	THR	5.6
1	B	3618	TYR	5.6
1	A	2206	THR	5.6
1	B	2344	THR	5.6
1	B	1639	VAL	5.6
2	S	159	ASP	5.6

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Mol	Chain	Res	Type	RSRZ
2	S	215	PRO	5.6
1	B	1795	PHE	5.6
1	B	3617	GLU	5.6
1	A	2392	ILE	5.6
1	A	4037	SER	5.6
1	A	3656	VAL	5.6
1	A	2426	MET	5.6
1	B	1415	MET	5.6
1	A	1661	GLU	5.6
2	T	92	SER	5.6
1	A	1488	THR	5.6
1	A	2775	TRP	5.6
1	A	2073	VAL	5.6
1	A	2097	HIS	5.5
1	A	3898	GLU	5.6
1	B	3992	ILE	5.5
1	B	2397	THR	5.5
1	B	2744	ARG	5.5
2	S	22	TYR	5.5
1	B	2364	ASP	5.5
2	T	134	ASP	5.5
1	A	2063	MET	5.5
1	A	1941	ASP	5.5
1	A	4057	ASP	5.5
1	A	1894	VAL	5.5
1	B	3888	LEU	5.5
1	B	4000	GLU	5.5
1	A	2439	ASP	5.5
1	B	2157	ASP	5.5
1	B	2224	SER	5.5
2	S	106	SER	5.5
1	B	2808	LEU	5.5
2	S	142	LEU	5.5
2	S	140	THR	5.5
2	S	161	VAL	5.4
1	B	2243	MET	5.4
1	A	2418	GLY	5.4
1	B	2753	GLN	5.4
1	A	1683	LEU	5.4
1	A	3787	THR	5.4
1	B	3367	ILE	5.4
1	A	3816	LEU	5.4

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Mol	Chain	Res	Type	RSRZ
1	B	3892	THR	5.4
1	A	1450	PHE	5.4
2	S	71	ILE	5.4
1	B	1372	ASN	5.4
1	A	2235	GLU	5.4
1	B	3681	GLU	5.4
2	T	87	GLU	5.4
1	B	3300	THR	5.4
1	B	2419	PRO	5.4
1	A	1712	ILE	5.4
1	A	2093	ILE	5.4
1	A	3893	ASP	5.4
1	B	2640	THR	5.4
1	A	2171	ASP	5.4
1	B	1439	SER	5.4
1	A	3025	ASN	5.4
1	A	3878	HIS	5.4
1	A	3940	THR	5.4
1	B	1792	GLY	5.4
1	B	3500	ASP	5.4
1	B	1693	ASN	5.4
1	A	3774	ILE	5.4
1	A	3648	GLN	5.3
1	A	3776	ASP	5.3
1	B	2994	ASP	5.3
2	T	90	GLU	5.3
1	A	3455	GLY	5.3
1	A	2311	LYS	5.3
1	B	1751	GLN	5.3
1	B	3301	PHE	5.3
1	A	3314	SER	5.3
1	B	1420	TYR	5.3
1	B	4084	SER	5.3
2	T	82	GLY	5.3
2	S	160	VAL	5.3
2	S	116	THR	5.3
1	A	1543	ASP	5.3
1	B	3468	ARG	5.3
1	A	3985	VAL	5.3
1	B	3404	VAL	5.3
2	T	195	SER	5.3
1	B	1370	SER	5.3

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Mol	Chain	Res	Type	RSRZ
1	A	1896	ILE	5.3
1	A	3644	ILE	5.3
1	A	2144	THR	5.2
1	B	2821	ASN	5.2
1	B	1893	ALA	5.2
2	S	56	TYR	5.2
1	B	2355	ASP	5.2
1	B	3899	ASP	5.2
2	S	209	PHE	5.2
1	A	1789	LYS	5.2
1	A	2428	MET	5.2
1	B	3690	LEU	5.2
2	S	125	LEU	5.2
2	T	30	HIS	5.2
1	B	3619	SER	5.2
1	A	1845	GLY	5.2
1	A	2692	THR	5.2
1	B	2637	PRO	5.2
1	A	4015	PHE	5.2
2	S	158	LEU	5.2
1	B	2826	ALA	5.2
1	A	4035	GLN	5.2
2	T	133	GLU	5.2
1	A	2223	SER	5.2
1	A	2563	SER	5.2
1	B	3317	SER	5.2
1	A	1381	ALA	5.2
2	T	108	ILE	5.2
1	A	2331	THR	5.2
1	A	2725	ASP	5.2
2	T	200	TRP	5.2
1	B	3014	GLN	5.1
1	A	2147	ASN	5.1
1	B	2198	ASN	5.1
1	A	1910	GLU	5.1
1	B	3898	GLU	5.1
1	A	2364	ASP	5.1
1	B	1530	GLN	5.1
1	A	3399	ASN	5.1
2	S	53	ASN	5.1
2	T	149	HIS	5.1
1	A	2295	ILE	5.1

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Mol	Chain	Res	Type	RSRZ
1	B	2803	ILE	5.1
1	B	4047	ALA	5.1
1	A	1514	ASP	5.1
2	T	38	ASP	5.1
1	A	1530	GLN	5.1
1	B	2189	ASN	5.1
1	B	2552	ARG	5.1
1	A	1554	HIS	5.1
1	A	2556	ILE	5.1
1	B	2206	THR	5.1
2	T	73	TYR	5.1
1	B	3407	LEU	5.1
1	A	2449	THR	5.1
1	A	3480	GLU	5.1
1	B	3497	HIS	5.1
2	S	100	ASP	5.1
1	B	3707	LYS	5.1
2	T	33	GLU	5.1
1	B	3894	ARG	5.1
1	B	2657	ALA	5.0
1	A	1416	LYS	5.0
1	A	2641	LEU	5.0
2	S	61	ASP	5.0
1	A	2433	ARG	5.0
1	A	3026	GLU	5.0
1	A	3497	HIS	5.0
1	B	1642	LYS	5.0
1	A	3625	SER	5.0
1	B	3504	ASP	5.0
1	B	3709	ASP	5.0
1	B	2732	MET	5.0
1	A	3293	ILE	5.0
1	B	2174	LYS	5.0
1	B	2439	ASP	5.0
1	B	2740	ASP	5.0
1	B	2790	SER	5.0
1	B	3795	ASP	5.0
2	S	138	HIS	5.0
1	B	2173	ASN	5.0
2	T	142	LEU	5.0
1	B	1691	SER	5.0
1	B	2075	LYS	5.0

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Mol	Chain	Res	Type	RSRZ
1	B	1911	ASN	5.0
1	B	2286	THR	5.0
1	B	1832	SER	5.0
1	B	2038	LEU	5.0
1	B	2100	VAL	5.0
2	S	174	LYS	5.0
1	A	2942	ASP	4.9
1	A	3405	PRO	4.9
1	B	1891	HIS	4.9
1	A	1964	ASN	4.9
1	B	3455	GLY	4.9
1	A	3939	ILE	4.9
1	B	1986	GLU	4.9
2	S	35	ASP	4.9
2	S	156	ASP	4.9
1	A	2502	VAL	4.9
2	T	89	ALA	4.9
1	B	1554	HIS	4.9
1	B	1912	LEU	4.9
1	B	2518	THR	4.9
1	B	2692	THR	4.9
1	B	4085	THR	4.9
2	S	65	THR	4.9
1	B	3959	CYS	4.9
1	B	2638	ARG	4.9
1	A	4062	TRP	4.9
1	A	3569	GLU	4.9
1	B	2205	ALA	4.9
1	B	3349	LEU	4.9
1	A	3454	ASP	4.9
1	B	3958	ASP	4.9
1	A	3016	PHE	4.9
1	A	2099	ASN	4.9
1	B	1398	TRP	4.9
2	T	183	GLU	4.9
2	T	204	GLY	4.9
2	S	67	SER	4.9
1	A	3637	GLN	4.9
1	A	2203	THR	4.9
1	A	2916	TRP	4.8
1	B	2084	TRP	4.8
1	A	3431	PHE	4.8

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Mol	Chain	Res	Type	RSRZ
1	A	3669	THR	4.8
1	B	3840	LEU	4.8
1	B	2916	TRP	4.8
1	B	2330	SER	4.8
1	B	2762	SER	4.8
1	B	3896	VAL	4.8
1	B	3900	ILE	4.8
1	B	2125	TRP	4.8
1	B	2615	TYR	4.8
1	B	2148	SER	4.8
1	A	2425	THR	4.8
1	A	2589	THR	4.8
1	B	3304	GLU	4.8
1	B	2354	SER	4.8
1	B	2904	SER	4.8
1	B	1625	ASP	4.8
1	B	2327	ALA	4.8
1	A	1911	ASN	4.8
2	T	205	TRP	4.8
1	A	3432	LEU	4.8
2	S	50	GLU	4.8
1	B	3486	VAL	4.8
1	B	1799	GLY	4.8
1	A	2710	THR	4.8
2	S	88	ARG	4.8
1	B	1672	TYR	4.8
1	B	2427	ILE	4.8
1	A	1559	SER	4.8
1	B	2805	ASP	4.8
2	S	43	LYS	4.8
2	S	31	LEU	4.8
2	S	168	CYS	4.8
1	A	3338	ASN	4.8
1	A	1402	GLU	4.7
1	A	2441	VAL	4.8
1	A	2784	PRO	4.7
1	B	3930	PHE	4.7
1	A	4078	ALA	4.7
1	A	2868	ASP	4.7
1	B	2448	ASP	4.7
1	B	1580	THR	4.7
1	B	2614	HIS	4.7

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Mol	Chain	Res	Type	RSRZ
1	B	3393	ASN	4.7
2	S	153	MET	4.7
1	B	3874	PHE	4.7
2	S	15	PRO	4.7
1	B	1401	LEU	4.7
1	B	2514	GLY	4.7
1	B	3841	LEU	4.7
1	B	3621	ILE	4.7
1	B	2515	PHE	4.7
1	A	1912	LEU	4.7
1	B	2599	LEU	4.7
1	A	1796	GLY	4.7
1	A	3333	TYR	4.7
1	A	3605	GLU	4.7
1	A	3783	ASN	4.7
1	B	2915	ASN	4.7
1	B	4012	ALA	4.7
2	S	122	LEU	4.7
1	B	2101	VAL	4.7
2	T	159	ASP	4.7
1	A	2382	ALA	4.7
1	B	3430	SER	4.7
1	B	2520	GLU	4.7
1	A	1503	PRO	4.7
1	A	2637	PRO	4.7
1	A	3520	THR	4.7
1	B	2086	THR	4.7
1	A	1465	ILE	4.7
1	A	2814	CYS	4.7
1	B	4011	CYS	4.7
1	A	2012	LEU	4.7
1	A	2792	LEU	4.7
1	B	3885	PRO	4.7
1	B	4082	ALA	4.7
1	B	2542	GLY	4.6
2	S	5	GLY	4.6
1	B	2777	ASN	4.6
1	B	4021	LEU	4.6
2	S	20	LEU	4.6
1	B	3351	ARG	4.6
1	B	2990	GLY	4.6
1	A	2397	THR	4.6

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Mol	Chain	Res	Type	RSRZ
1	B	1898	LEU	4.6
1	A	2543	ARG	4.6
1	B	1402	GLU	4.6
1	B	1586	GLU	4.6
1	A	3897	TYR	4.6
1	A	2995	GLY	4.6
1	B	1988	GLY	4.6
1	B	2410	SER	4.6
1	A	2092	ALA	4.6
2	T	75	ALA	4.6
1	A	3888	LEU	4.6
1	B	1364	GLU	4.6
1	B	1412	LEU	4.6
1	B	2814	CYS	4.6
1	B	3808	LYS	4.6
1	B	3470	PHE	4.6
1	B	2930	ASN	4.6
1	A	2757	MET	4.6
2	T	164	MET	4.6
1	B	1750	SER	4.6
1	B	3810	SER	4.6
1	B	3855	LEU	4.6
2	S	118	LYS	4.6
1	A	2420	PRO	4.6
1	B	3327	SER	4.6
1	B	3807	SER	4.6
1	B	2279	ARG	4.5
1	B	2612	GLN	4.5
1	A	2195	GLU	4.5
1	B	2312	ASP	4.5
1	A	2084	TRP	4.5
1	B	3862	THR	4.5
2	T	66	GLN	4.5
2	S	187	GLN	4.5
1	A	1623	PHE	4.5
1	B	1895	PHE	4.5
1	B	2418	GLY	4.5
1	A	3430	SER	4.5
1	B	2194	PHE	4.5
1	A	2107	LYS	4.5
1	B	1608	LEU	4.5
1	B	2526	ILE	4.5

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Mol	Chain	Res	Type	RSRZ
2	T	91	ILE	4.5
1	A	2148	SER	4.5
1	A	3818	SER	4.5
1	A	3500	ASP	4.5
1	B	2896	ASN	4.5
1	B	4044	ARG	4.5
1	B	1474	SER	4.5
2	T	97	ALA	4.5
1	A	2151	TRP	4.5
1	A	3996	GLY	4.5
1	A	2536	ASN	4.5
1	A	2112	GLU	4.5
1	A	2561	TYR	4.5
1	B	3651	SER	4.5
1	B	1427	ASP	4.5
2	S	177	CYS	4.5
2	T	37	GLY	4.5
2	S	210	GLY	4.5
1	B	1890	PRO	4.4
1	A	2732	MET	4.4
1	A	2533	GLY	4.4
2	T	13	VAL	4.4
1	A	3409	ASP	4.4
1	A	2328	GLY	4.4
1	B	3965	SER	4.4
1	A	1800	THR	4.4
1	B	1800	THR	4.4
1	B	2802	ALA	4.4
1	B	3480	GLU	4.4
1	A	4064	GLN	4.4
1	A	3795	ASP	4.4
1	B	2449	THR	4.4
1	B	2711	ASP	4.4
1	B	3544	LYS	4.4
2	T	63	LYS	4.4
1	B	2519	PRO	4.4
2	S	52	PRO	4.4
1	B	1920	SER	4.4
2	S	169	LEU	4.4
1	A	2922	THR	4.4
1	A	2400	HIS	4.4
1	B	2281	PHE	4.4

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Mol	Chain	Res	Type	RSRZ
1	A	3002	LEU	4.4
1	B	1695	LYS	4.4
1	B	3925	SER	4.4
1	B	4065	LEU	4.4
1	B	1781	THR	4.4
1	B	3820	GLU	4.4
2	S	115	GLU	4.4
1	A	1832	SER	4.3
1	A	2102	TYR	4.3
1	A	2071	ILE	4.3
1	A	2403	ILE	4.3
1	B	2433	ARG	4.3
1	B	2822	ILE	4.3
1	B	2153	VAL	4.3
1	B	2548	GLU	4.3
1	B	2579	PHE	4.3
1	A	3676	TRP	4.3
1	B	2424	LYS	4.3
1	B	2136	ARG	4.3
1	A	3020	GLY	4.3
1	A	4014	VAL	4.3
2	S	178	PHE	4.3
1	B	1630	LEU	4.3
1	A	2335	GLN	4.3
1	B	1492	GLN	4.3
1	B	1811	GLN	4.3
1	B	2337	ALA	4.3
1	A	1644	ILE	4.3
1	B	3389	TYR	4.3
1	B	1931	GLU	4.3
2	S	64	LEU	4.3
1	A	2268	CYS	4.3
1	B	3453	GLN	4.3
1	A	1908	LEU	4.3
1	A	2790	SER	4.3
1	B	1563	LYS	4.3
1	B	3872	LYS	4.3
2	S	30	HIS	4.3
2	T	115	GLU	4.3
1	A	3877	CYS	4.3
1	B	2868	ASP	4.3
1	A	1446	VAL	4.3

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Mol	Chain	Res	Type	RSRZ
1	A	2884	ASN	4.3
1	B	2423	GLY	4.3
1	A	3782	GLU	4.3
2	T	7	TRP	4.3
1	B	2788	ARG	4.3
1	B	1419	ASN	4.3
1	B	2211	GLY	4.3
1	A	2019	SER	4.3
2	T	34	ARG	4.3
2	S	165	ASP	4.3
1	A	2843	LEU	4.3
2	S	18	LEU	4.3
1	A	2120	LYS	4.3
1	A	2410	SER	4.2
1	B	1387	GLU	4.2
1	B	2861	ARG	4.2
1	A	2869	THR	4.2
1	B	2070	LEU	4.2
1	B	3889	LEU	4.2
1	A	2664	LYS	4.2
2	T	163	TYR	4.2
1	A	2628	GLY	4.2
1	B	3368	ASP	4.2
1	A	4011	CYS	4.2
1	B	1462	ASN	4.2
1	B	1465	ILE	4.2
2	T	107	ARG	4.2
2	S	135	ARG	4.2
1	B	2374	GLU	4.2
1	A	1735	TYR	4.2
2	S	32	TYR	4.2
1	B	3784	ASN	4.2
1	B	4025	PRO	4.2
1	A	3339	GLU	4.2
1	A	2101	VAL	4.2
1	A	2145	PHE	4.2
1	A	2461	HIS	4.2
1	B	2379	SER	4.2
1	B	1803	THR	4.2
1	B	3893	ASP	4.2
1	B	3960	ASP	4.2
1	B	4027	VAL	4.2

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Mol	Chain	Res	Type	RSRZ
1	A	1560	LYS	4.2
2	T	132	PHE	4.2
1	A	2606	ARG	4.2
1	A	2638	ARG	4.2
1	A	1959	LYS	4.2
1	A	2152	VAL	4.2
1	A	2917	MET	4.2
1	B	1561	PHE	4.2
1	A	1750	SER	4.2
1	A	2057	CYS	4.2
1	B	1841	ILE	4.2
1	A	3021	LEU	4.2
1	B	3816	LEU	4.2
1	B	3887	PRO	4.2
1	B	3901	PRO	4.2
1	B	3981	PRO	4.2
1	A	2678	ASP	4.2
1	A	1891	HIS	4.1
2	T	110	TYR	4.1
1	B	1918	GLU	4.1
1	B	2051	GLU	4.1
1	B	1641	SER	4.1
1	B	2020	LYS	4.1
2	S	13	VAL	4.1
1	B	1496	THR	4.1
1	B	2836	ALA	4.1
1	A	2455	LEU	4.1
2	T	68	MET	4.1
1	A	2344	THR	4.1
1	A	3929	THR	4.1
1	B	1892	THR	4.1
1	B	1409	LEU	4.1
1	B	2530	HIS	4.1
1	B	2309	SER	4.1
1	B	2583	PRO	4.1
1	A	1808	ALA	4.1
1	B	3779	ALA	4.1
1	B	2106	THR	4.1
1	B	2280	THR	4.1
1	B	1990	GLY	4.1
1	B	2673	LEU	4.1
1	A	2819	GLU	4.1

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Mol	Chain	Res	Type	RSRZ
1	A	3875	MET	4.1
1	B	3990	ALA	4.1
2	T	67	SER	4.1
1	A	3527	THR	4.1
1	B	2833	THR	4.1
1	B	3551	LEU	4.1
1	B	3797	THR	4.1
1	B	3324	CYS	4.1
2	S	110	TYR	4.1
1	B	2151	TRP	4.1
1	B	3444	VAL	4.1
1	A	2014	PHE	4.1
1	A	2777	ASN	4.1
2	S	79	ASN	4.1
1	A	1923	SER	4.1
1	A	2373	SER	4.1
1	B	2681	LEU	4.1
2	S	129	LEU	4.1
1	A	1799	GLY	4.1
2	S	181	ARG	4.1
1	B	2152	VAL	4.1
1	B	3624	HIS	4.1
1	B	1704	GLU	4.1
1	A	2069	ALA	4.1
1	A	2072	LEU	4.1
1	A	1689	LYS	4.1
1	B	2080	LYS	4.1
2	T	8	LYS	4.1
1	B	1815	ARG	4.1
1	B	3431	PHE	4.1
2	T	140	THR	4.1
1	A	2301	TRP	4.1
1	A	3772	TRP	4.1
1	A	1884	GLU	4.0
1	B	1793	CYS	4.0
1	A	1401	LEU	4.0
2	S	192	LEU	4.0
1	A	3475	ASN	4.0
1	B	1709	ASN	4.0
1	B	2624	ARG	4.0
2	T	135	ARG	4.0
1	A	3965	SER	4.0

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Mol	Chain	Res	Type	RSRZ
1	A	2166	MET	4.0
2	T	56	TYR	4.0
1	A	3899	ASP	4.0
1	B	1482	GLU	4.0
1	B	3465	LEU	4.0
2	S	154	LEU	4.0
1	B	1868	ILE	4.0
1	A	4031	GLN	4.0
1	A	2224	SER	4.0
1	A	2109	LEU	4.0
1	B	1813	LEU	4.0
1	B	2843	LEU	4.0
1	A	2479	ILE	4.0
1	A	1794	PHE	4.0
1	B	3683	TYR	4.0
2	S	162	LEU	4.0
1	B	1789	LYS	4.0
1	B	2735	HIS	4.0
1	A	1643	TYR	4.0
1	A	3324	CYS	4.0
1	A	2481	ASN	4.0
1	A	3018	ASN	4.0
1	A	3749	ASP	4.0
1	B	1552	GLY	4.0
1	B	1814	GLY	4.0
1	B	1671	LYS	4.0
1	B	2403	ILE	4.0
1	A	2121	ALA	4.0
1	A	2787	HIS	4.0
1	B	1713	GLY	4.0
1	B	2995	GLY	4.0
1	A	1827	ASP	4.0
1	B	2680	TYR	4.0
1	B	2057	CYS	4.0
1	B	4043	ALA	4.0
1	B	2420	PRO	4.0
1	A	3876	THR	4.0
1	B	2922	THR	4.0
1	B	2992	PHE	4.0
1	A	2520	GLU	3.9
1	B	3861	GLU	3.9
1	B	3785	TYR	3.9

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Mol	Chain	Res	Type	RSRZ
1	A	3547	ASP	3.9
1	A	3709	ASP	3.9
1	B	3691	ASP	3.9
1	B	3905	ASP	3.9
1	B	1417	ALA	3.9
1	B	2069	ALA	3.9
2	S	89	ALA	3.9
1	B	1796	GLY	3.9
1	A	2785	LYS	3.9
1	A	2438	TYR	3.9
1	B	4077	GLN	3.9
1	B	4087	GLN	3.9
2	S	101	ILE	3.9
1	A	1818	VAL	3.9
1	A	2194	PHE	3.9
1	A	2909	PHE	3.9
1	A	3568	GLU	3.9
1	B	1699	GLU	3.9
1	B	3309	THR	3.9
1	B	3433	GLU	3.9
1	B	2289	GLN	3.9
1	B	2197	ASP	3.9
1	A	2534	ALA	3.9
1	A	2190	PHE	3.9
2	S	175	LEU	3.9
1	B	1812	ASN	3.9
1	B	2564	GLY	3.9
2	S	90	GLU	3.9
1	B	2759	ILE	3.9
1	B	3520	THR	3.9
1	B	1612	ASP	3.9
1	B	3702	MET	3.9
1	B	4015	PHE	3.9
1	B	2682	PRO	3.9
1	B	2687	GLY	3.9
1	B	2553	HIS	3.9
1	B	3844	ILE	3.9
1	A	2078	CYS	3.9
1	A	2336	ARG	3.9
1	A	2761	ALA	3.9
1	A	3702	MET	3.9
1	A	1577	ASP	3.9

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Mol	Chain	Res	Type	RSRZ
1	B	2434	ASN	3.9
1	B	4013	HIS	3.9
1	A	3820	GLU	3.9
1	B	1910	GLU	3.9
1	B	2900	SER	3.9
1	B	2083	THR	3.9
1	A	1797	PRO	3.9
1	B	1844	TRP	3.9
1	A	2711	ASP	3.9
1	A	2530	HIS	3.9
2	S	78	HIS	3.9
1	A	1584	SER	3.9
1	A	3847	SER	3.9
1	B	1389	SER	3.9
1	B	2524	VAL	3.9
1	B	2905	SER	3.9
2	S	23	LEU	3.9
1	A	1895	PHE	3.8
1	A	2554	ALA	3.8
2	T	116	THR	3.8
1	B	3685	GLN	3.8
1	A	1965	HIS	3.8
1	A	2575	TYR	3.8
1	A	3883	LYS	3.8
1	B	2334	SER	3.8
2	S	190	LYS	3.8
1	A	2722	THR	3.8
1	A	2421	GLY	3.8
1	B	2072	LEU	3.8
1	B	3581	ASP	3.8
1	A	1795	PHE	3.8
1	A	2992	PHE	3.8
1	B	2555	ALA	3.8
1	A	3511	SER	3.8
1	A	2990	GLY	3.8
1	A	3901	PRO	3.8
1	A	2094	PHE	3.8
1	A	2517	LYS	3.8
1	B	1428	CYS	3.8
1	B	2550	PHE	3.8
2	S	45	PHE	3.8
1	B	2453	HIS	3.8

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Mol	Chain	Res	Type	RSRZ
1	B	2370	SER	3.8
1	B	2807	SER	3.8
1	A	2192	ILE	3.8
1	B	3316	THR	3.8
1	A	3822	LEU	3.8
2	T	85	PRO	3.8
1	B	2055	LYS	3.8
1	A	1368	GLU	3.8
1	B	3866	GLU	3.8
1	B	3761	ASN	3.8
1	B	3515	LEU	3.8
1	B	3884	LEU	3.8
1	B	1657	THR	3.8
1	A	1816	VAL	3.8
1	A	1819	VAL	3.8
1	A	2013	VAL	3.8
1	B	2725	ASP	3.8
1	B	2998	ALA	3.8
1	A	2209	ARG	3.8
1	B	1414	SER	3.8
1	A	3478	THR	3.8
2	T	113	ASP	3.8
1	A	2080	LYS	3.7
1	A	3419	SER	3.7
1	A	2588	TYR	3.7
1	B	2779	LEU	3.7
1	B	3736	LEU	3.7
1	B	1494	ASP	3.7
1	B	1689	LYS	3.7
1	B	2829	GLU	3.7
1	A	2933	VAL	3.7
1	B	3786	PHE	3.7
1	A	1646	GLN	3.7
1	B	3877	CYS	3.7
1	B	4092	MET	3.7
1	A	1920	SER	3.7
1	B	1445	TRP	3.7
2	S	205	TRP	3.7
1	B	1621	THR	3.7
1	B	4073	TYR	3.7
1	A	2150	ILE	3.7
1	A	2509	LEU	3.7

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Mol	Chain	Res	Type	RSRZ
1	B	1777	ILE	3.7
1	A	1954	GLU	3.7
1	B	1919	PHE	3.7
2	S	121	PHE	3.7
1	A	1752	SER	3.7
1	B	1864	ASN	3.7
1	A	1806	VAL	3.7
1	B	3441	GLU	3.7
1	A	1966	TYR	3.7
1	A	2427	ILE	3.7
1	A	3364	TYR	3.7
2	S	137	CYS	3.7
2	S	17	ARG	3.7
1	A	1556	ASP	3.7
1	A	1684	LEU	3.7
1	A	3691	ASP	3.7
2	T	12	LEU	3.7
1	B	3967	TYR	3.7
2	S	191	TYR	3.7
1	A	2082	ALA	3.7
1	A	3524	SER	3.7
1	A	3310	THR	3.7
1	A	1875	GLY	3.7
1	B	3858	HIS	3.7
1	A	2011	GLU	3.7
1	B	3605	GLU	3.7
1	A	2251	ASP	3.7
1	A	3318	GLN	3.7
1	A	3973	ALA	3.7
1	A	1815	ARG	3.7
1	A	3821	ASN	3.7
1	B	3765	ASN	3.7
1	B	2215	PHE	3.7
1	B	3935	PHE	3.7
1	A	1921	MET	3.7
1	B	1473	THR	3.7
1	B	2860	THR	3.7
1	A	2415	ILE	3.7
1	A	2958	ILE	3.7
1	B	4039	GLU	3.7
1	A	2555	ALA	3.7
1	B	2089	ASP	3.7

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Mol	Chain	Res	Type	RSRZ
1	B	3739	ASP	3.7
1	B	1694	VAL	3.6
1	B	2013	VAL	3.6
1	B	2441	VAL	3.6
2	T	176	VAL	3.6
1	A	3309	THR	3.6
1	B	2421	GLY	3.6
1	A	1605	GLN	3.6
1	A	1468	PHE	3.6
1	A	3581	ASP	3.6
1	B	2585	PHE	3.6
1	B	3694	PHE	3.6
1	A	1785	SER	3.6
1	B	3335	GLY	3.6
1	B	3817	GLY	3.6
1	A	1892	THR	3.6
1	A	2393	PRO	3.6
2	T	74	ILE	3.6
1	A	1994	VAL	3.6
1	A	3655	ARG	3.6
1	B	1396	ARG	3.6
1	B	3895	VAL	3.6
1	B	3942	ARG	3.6
2	S	7	TRP	3.6
1	A	2010	ASP	3.6
2	S	59	ASP	3.6
1	A	1504	ASN	3.6
1	B	1839	THR	3.6
1	B	1794	PHE	3.6
1	A	1428	CYS	3.6
1	B	2392	ILE	3.6
1	A	2343	ASN	3.6
1	B	1710	ASN	3.6
1	B	1745	ASN	3.6
1	A	2860	THR	3.6
1	B	2539	THR	3.6
2	S	148	THR	3.6
1	A	1413	VAL	3.6
1	A	3971	VAL	3.6
1	B	2349	ASP	3.6
1	B	2785	LYS	3.6
1	B	3483	ASP	3.6

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Mol	Chain	Res	Type	RSRZ
1	B	3412	SER	3.6
1	B	4037	SER	3.6
1	A	2066	THR	3.6
1	A	2553	HIS	3.6
1	A	2532	VAL	3.6
1	A	3362	VAL	3.6
1	A	3683	TYR	3.6
1	B	1725	ARG	3.6
1	B	2260	ALA	3.6
1	B	3787	THR	3.6
1	B	2213	LEU	3.6
1	B	2127	ASP	3.6
2	T	213	ASP	3.6
1	B	2393	PRO	3.6
1	A	2189	ASN	3.6
1	A	2649	ALA	3.6
1	A	3602	SER	3.6
1	A	3651	SER	3.6
1	B	2547	SER	3.6
1	B	1613	THR	3.6
1	B	4062	TRP	3.6
1	B	1375	LYS	3.6
2	T	193	LYS	3.6
1	A	1405	CYS	3.5
1	B	1909	PRO	3.5
1	A	3428	LEU	3.5
1	A	2657	ALA	3.5
1	A	2782	VAL	3.5
1	B	3642	TYR	3.5
2	T	199	ALA	3.5
2	S	199	ALA	3.5
1	B	1884	GLU	3.5
1	B	2425	THR	3.5
1	B	2736	GLU	3.5
1	B	3426	THR	3.5
1	B	2071	ILE	3.5
1	B	3493	LYS	3.5
1	A	3889	LEU	3.5
1	B	2461	HIS	3.5
1	A	2833	THR	3.5
1	A	1442	GLN	3.5
1	A	1557	GLN	3.5

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Mol	Chain	Res	Type	RSRZ
1	A	3879	LEU	3.5
1	A	1802	LYS	3.5
1	B	3547	ASP	3.5
1	A	3517	HIS	3.5
1	A	1821	ASN	3.5
1	A	2334	SER	3.5
1	A	3027	SER	3.5
2	T	95	GLU	3.5
1	B	3752	THR	3.5
1	B	1866	GLN	3.5
1	A	1645	PHE	3.5
1	A	3926	VAL	3.5
1	B	2642	ARG	3.5
1	B	2991	TYR	3.5
1	B	2734	ILE	3.5
1	B	3454	ASP	3.5
1	B	3839	ILE	3.5
1	A	4086	GLU	3.5
1	A	2394	THR	3.5
1	A	3904	LEU	3.5
1	B	1934	LEU	3.5
1	B	3837	GLY	3.5
2	S	48	GLY	3.5
2	S	163	TYR	3.5
1	A	2893	ASP	3.5
1	A	1424	PHE	3.5
1	B	3292	SER	3.5
1	B	3448	SER	3.5
1	A	1657	THR	3.5
1	B	3873	MET	3.5
1	A	1754	TYR	3.5
1	A	1841	ILE	3.5
1	A	3628	ILE	3.5
1	A	3024	LEU	3.5
1	A	3968	LEU	3.5
1	B	1983	LEU	3.5
1	B	2850	ASP	3.5
1	A	2872	GLU	3.5
1	B	1817	VAL	3.5
1	B	2887	VAL	3.5
2	S	167	MET	3.5
1	A	3992	ILE	3.5

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Mol	Chain	Res	Type	RSRZ
1	A	2054	LEU	3.4
1	A	2636	GLY	3.4
1	A	1544	ASP	3.4
1	A	2626	VAL	3.4
2	S	51	PHE	3.4
1	A	3022	GLU	3.4
1	B	4001	GLU	3.4
1	A	3925	SER	3.4
1	B	1481	SER	3.4
1	B	2764	THR	3.4
1	B	3332	THR	3.4
1	A	2437	LEU	3.4
1	A	3891	ARG	3.4
1	A	2259	MET	3.4
2	T	128	MET	3.4
1	A	1380	GLU	3.4
1	B	2381	GLU	3.4
1	B	3411	SER	3.4
1	A	2631	THR	3.4
1	B	2193	LEU	3.4
1	A	3665	ARG	3.4
1	B	2209	ARG	3.4
2	S	102	ARG	3.4
1	A	1685	ASP	3.4
1	B	1692	ASP	3.4
1	A	1840	GLN	3.4
1	B	3904	LEU	3.4
2	T	201	PRO	3.4
1	A	1783	THR	3.4
1	A	2821	ASN	3.4
1	A	3750	TYR	3.4
1	A	2445	PHE	3.4
1	B	1971	ARG	3.4
2	T	196	LYS	3.4
1	A	2423	GLY	3.4
1	A	2876	TRP	3.4
1	A	2327	ALA	3.4
2	S	133	GLU	3.4
1	A	2329	ASP	3.4
1	B	1399	ASP	3.4
1	B	2227	ASP	3.4
1	A	3422	TYR	3.4

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Mol	Chain	Res	Type	RSRZ
1	B	4060	SER	3.4
1	A	1372	ASN	3.4
1	A	1462	ASN	3.4
1	B	1507	THR	3.4
1	B	2532	VAL	3.4
1	A	1756	LEU	3.4
1	A	3790	SER	3.4
1	B	1870	ASN	3.4
2	T	131	MET	3.4
2	S	3	ILE	3.4
1	A	2731	PRO	3.4
1	B	1491	PHE	3.4
1	A	2100	VAL	3.4
1	B	1446	VAL	3.4
1	A	2370	SER	3.4
1	A	3622	GLY	3.4
1	B	3849	SER	3.4
1	A	2667	ASN	3.4
1	A	2764	THR	3.4
1	A	1813	LEU	3.4
1	A	3784	ASN	3.4
1	B	1706	LEU	3.4
1	B	2138	ASN	3.4
1	B	2228	HIS	3.3
1	A	3563	GLU	3.3
1	A	3673	GLU	3.3
1	B	1498	GLU	3.3
1	A	2136	ARG	3.3
1	A	2183	ARG	3.3
1	A	1714	GLN	3.3
1	B	2059	GLN	3.3
1	B	2912	CYS	3.3
2	T	59	ASP	3.3
1	A	3411	SER	3.3
1	A	3570	LEU	3.3
1	B	1559	SER	3.3
1	B	1877	SER	3.3
1	B	1880	THR	3.3
1	B	3424	ASN	3.3
1	B	3443	ALA	3.3
1	B	2368	PHE	3.3
2	S	55	PRO	3.3

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Mol	Chain	Res	Type	RSRZ
1	A	1790	TYR	3.3
1	B	1395	VAL	3.3
1	B	2819	GLU	3.3
1	B	2932	MET	3.3
1	A	2238	ASP	3.3
1	B	2413	GLY	3.3
1	B	2636	GLY	3.3
2	S	108	ILE	3.3
2	S	182	ILE	3.3
1	A	2296	SER	3.3
1	B	3527	THR	3.3
1	A	3561	ASN	3.3
1	B	3425	LYS	3.3
1	B	3692	LYS	3.3
1	B	1987	PHE	3.3
1	B	2160	PRO	3.3
1	B	3445	ARG	3.3
1	B	3907	VAL	3.3
1	A	4001	GLU	3.3
1	B	1675	GLU	3.3
1	B	3616	GLU	3.3
2	S	46	GLU	3.3
1	B	1798	ALA	3.3
1	A	2550	PHE	3.3
1	B	2601	ASN	3.3
1	B	2648	TRP	3.3
1	B	3538	ASN	3.3
1	A	1890	PRO	3.3
1	B	1638	VAL	3.3
1	B	2933	VAL	3.3
1	B	4024	VAL	3.3
1	A	3685	GLN	3.3
1	B	1442	GLN	3.3
1	A	1464	ASP	3.3
1	A	2137	VAL	3.3
1	A	3316	THR	3.3
1	B	2391	VAL	3.3
1	B	2620	ARG	3.3
1	A	2429	ASN	3.3
1	B	2253	ILE	3.3
1	B	3628	ILE	3.3
1	B	3897	TYR	3.3

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Mol	Chain	Res	Type	RSRZ
1	B	3802	GLU	3.3
1	B	3438	LYS	3.3
1	A	1677	ASP	3.3
1	A	2127	ASP	3.3
1	B	2320	ARG	3.3
1	A	2208	THR	3.3
1	B	2910	ASN	3.3
2	S	42	ASN	3.3
1	A	1713	GLY	3.3
1	A	1798	ALA	3.3
1	A	1847	PHE	3.3
1	A	3935	PHE	3.3
2	T	102	ARG	3.3
1	A	1632	ASP	3.3
1	A	4033	LEU	3.3
1	A	3451	ILE	3.3
1	B	2516	TRP	3.3
1	B	2607	TYR	3.3
1	B	1475	LYS	3.2
1	A	2515	PHE	3.2
1	A	2503	VAL	3.2
1	B	1367	ILE	3.2
1	B	1470	PRO	3.2
1	B	3676	TRP	3.2
1	B	1790	TYR	3.2
1	A	2941	THR	3.2
1	B	1972	THR	3.2
1	B	2621	GLU	3.2
1	A	2134	LEU	3.2
1	B	3028	VAL	3.2
1	B	3346	LEU	3.2
1	B	3362	VAL	3.2
1	A	1485	MET	3.2
1	A	3710	ILE	3.2
1	B	2655	ILE	3.2
1	A	3815	PRO	3.2
1	A	3612	ASP	3.2
1	A	3909	ASP	3.2
1	B	3695	LYS	3.2
1	A	2596	SER	3.2
1	B	2009	THR	3.2
1	B	2321	SER	3.2

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Mol	Chain	Res	Type	RSRZ
1	B	2568	SER	3.2
1	A	2548	GLU	3.2
1	A	3393	ASN	3.2
1	A	2305	LEU	3.2
1	A	2098	ALA	3.2
1	A	2385	VAL	3.2
1	B	2646	ARG	3.2
1	A	3505	ILE	3.2
1	B	2251	ASP	3.2
2	S	113	ASP	3.2
1	A	2383	HIS	3.2
1	B	2446	SER	3.2
1	B	3467	SER	3.2
1	B	3353	LEU	3.2
2	T	192	LEU	3.2
1	B	2884	ASN	3.2
1	A	3542	GLN	3.2
1	B	2443	ILE	3.2
1	A	2008	ASP	3.2
1	B	1617	LEU	3.2
1	B	2755	HIS	3.2
2	T	156	ASP	3.2
1	A	2465	VAL	3.2
1	A	3619	SER	3.2
1	B	1508	THR	3.2
1	B	3604	SER	3.2
1	B	3688	THR	3.2
1	B	3554	GLU	3.2
1	B	3594	ALA	3.2
2	S	128	MET	3.2
1	B	3821	ASN	3.2
1	A	2562	PRO	3.2
2	S	166	PRO	3.2
1	A	3503	GLY	3.2
1	A	1399	ASP	3.2
1	A	1817	VAL	3.2
1	B	1366	VAL	3.2
1	A	1579	ILE	3.2
1	A	3327	SER	3.2
1	B	2426	MET	3.2
1	A	1991	GLU	3.2
1	A	2803	ILE	3.2

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Mol	Chain	Res	Type	RSRZ
1	B	1996	GLU	3.2
1	A	2708	ASN	3.2
1	A	3984	GLN	3.2
1	A	2007	GLY	3.2
1	B	2154	PHE	3.2
1	B	2503	VAL	3.2
1	B	3859	VAL	3.2
1	B	1921	MET	3.2
1	B	2741	HIS	3.2
1	A	3810	SER	3.1
1	B	1376	LYS	3.1
1	B	2267	THR	3.1
1	B	2394	THR	3.1
1	A	3571	ASN	3.1
1	A	2371	PHE	3.1
1	B	2328	GLY	3.1
1	B	2782	VAL	3.1
1	B	3626	VAL	3.1
1	A	3813	ILE	3.1
1	B	2295	ILE	3.1
1	B	2414	ILE	3.1
1	A	3789	ALA	3.1
1	B	2934	ASP	3.1
1	B	4046	THR	3.1
1	B	4086	GLU	3.1
1	A	2508	GLN	3.1
1	B	1873	GLN	3.1
1	A	1755	LEU	3.1
1	B	3931	LEU	3.1
2	S	54	LEU	3.1
1	A	1467	ASN	3.1
1	B	1467	ASN	3.1
1	B	1609	ASN	3.1
1	B	1995	VAL	3.1
1	B	3911	TRP	3.1
1	B	2085	LYS	3.1
1	B	4056	ALA	3.1
1	A	1410	GLU	3.1
1	A	1859	SER	3.1
1	A	3412	SER	3.1
1	B	1418	SER	3.1
1	B	1471	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
1	B	1702	LEU	3.1
2	T	136	LEU	3.1
2	T	203	GLN	3.1
2	S	208	THR	3.1
1	A	2404	PHE	3.1
1	A	3518	PHE	3.1
1	B	2429	ASN	3.1
1	A	3924	TRP	3.1
1	B	1678	MET	3.1
1	B	2284	LEU	3.1
1	B	2482	LEU	3.1
1	B	3428	LEU	3.1
1	A	3546	GLU	3.1
1	B	1425	GLU	3.1
1	B	1461	GLU	3.1
1	B	3331	GLU	3.1
1	A	1820	PHE	3.1
1	A	1823	ASP	3.1
1	B	1685	ASP	3.1
1	B	2094	PHE	3.1
1	B	3531	ASP	3.1
1	B	3798	PHE	3.1
2	S	151	ASP	3.1
1	A	3332	THR	3.1
1	A	1747	VAL	3.1
1	A	2035	VAL	3.1
1	B	2773	VAL	3.1
1	B	3007	TYR	3.1
1	B	3422	TYR	3.1
1	A	1682	GLY	3.1
1	A	3872	LYS	3.1
1	A	3429	LEU	3.1
1	A	1996	GLU	3.1
1	B	1566	PHE	3.1
1	B	2190	PHE	3.1
1	B	2245	GLU	3.1
1	A	3565	ARG	3.1
1	A	1805	THR	3.1
1	A	2541	PRO	3.1
1	A	3796	GLY	3.1
1	A	3862	THR	3.1
1	B	2691	SER	3.1

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Mol	Chain	Res	Type	RSRZ
1	B	1865	ILE	3.1
1	B	3496	ILE	3.1
2	T	207	ALA	3.1
1	A	2727	GLU	3.1
1	B	1443	VAL	3.1
1	B	2126	ARG	3.1
1	B	2195	GLU	3.1
1	A	2386	MET	3.1
1	A	1634	THR	3.1
1	A	1746	SER	3.1
1	A	2306	ASP	3.1
1	A	2687	GLY	3.1
1	B	1430	ASP	3.1
1	B	3293	ILE	3.1
1	B	3813	ILE	3.1
1	B	1478	SER	3.1
1	B	1495	THR	3.1
1	B	2110	THR	3.1
1	B	2631	THR	3.1
1	A	3759	ALA	3.1
1	A	1443	VAL	3.1
1	A	2075	LYS	3.1
1	A	2576	LYS	3.1
1	A	2763	ARG	3.1
1	A	3692	LYS	3.1
1	B	3997	LYS	3.1
1	A	2141	ILE	3.1
1	A	2381	GLU	3.1
1	B	3461	ILE	3.1
1	A	2542	GLY	3.0
1	A	4010	LEU	3.0
1	B	2341	THR	3.0
1	B	2758	LEU	3.0
1	B	3024	LEU	3.0
1	B	3775	ALA	3.0
2	T	177	CYS	3.0
1	B	3561	ASN	3.0
1	A	1696	LYS	3.0
1	A	2453	HIS	3.0
1	A	1367	ILE	3.0
2	T	198	ILE	3.0
1	A	2160	PRO	3.0

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Mol	Chain	Res	Type	RSRZ
1	B	1637	GLU	3.0
1	B	2182	GLU	3.0
1	A	2380	LEU	3.0
1	A	2205	ALA	3.0
1	A	4061	SER	3.0
1	B	1577	ASP	3.0
1	A	1939	PHE	3.0
1	A	1830	VAL	3.0
1	B	1369	LYS	3.0
2	T	17	ARG	3.0
2	T	72	ARG	3.0
2	T	130	LYS	3.0
1	A	1838	ILE	3.0
1	A	2051	GLU	3.0
1	A	2332	GLY	3.0
1	B	1714	GLN	3.0
1	B	2844	PHE	3.0
2	S	176	VAL	3.0
2	S	143	ASN	3.0
1	B	3333	TYR	3.0
1	A	3290	GLU	3.0
2	S	66	GLN	3.0
2	T	157	ALA	3.0
1	B	2720	PHE	3.0
1	A	2089	ASP	3.0
1	A	3372	THR	3.0
1	A	3707	LYS	3.0
1	A	3905	ASP	3.0
1	A	4079	LYS	3.0
1	B	1827	ASP	3.0
1	B	2875	ASP	3.0
1	B	3328	SER	3.0
1	B	1680	ILE	3.0
1	B	3801	ILE	3.0
1	B	1846	CYS	3.0
1	A	3885	PRO	3.0
1	B	1837	GLY	3.0
1	B	2670	GLU	3.0
1	B	1557	GLN	3.0
1	B	2845	GLN	3.0
1	B	1452	TRP	3.0
1	B	2301	TRP	3.0

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Mol	Chain	Res	Type	RSRZ
1	A	1824	ASP	3.0
1	B	3757	ILE	3.0
1	B	3998	ILE	3.0
1	A	3360	TYR	3.0
1	A	3902	GLY	3.0
1	B	2683	ASN	3.0
1	B	3399	ASN	3.0
1	A	3616	GLU	3.0
1	B	1930	ALA	3.0
1	B	2017	GLU	3.0
1	B	2036	GLN	3.0
1	B	2639	GLN	3.0
1	B	3610	GLN	3.0
2	S	203	GLN	3.0
1	A	2191	ARG	3.0
1	B	3519	VAL	3.0
1	A	2759	ILE	3.0
1	B	2305	LEU	3.0
1	B	3429	LEU	3.0
1	A	1580	THR	3.0
1	B	1752	SER	3.0
1	B	3361	ASP	3.0
1	B	3322	GLY	3.0
2	T	5	GLY	3.0
1	B	3589	ASN	3.0
1	B	1991	GLU	3.0
1	B	3532	ILE	2.9
1	B	3710	ILE	2.9
1	A	2435	SER	2.9
1	B	1581	GLY	2.9
1	B	2172	ASP	2.9
1	B	2447	LYS	2.9
1	A	1660	VAL	2.9
2	S	33	GLU	2.9
1	B	2751	GLN	2.9
1	B	2757	MET	2.9
1	A	1828	TYR	2.9
1	A	1947	SER	2.9
1	A	1972	THR	2.9
1	A	2402	LYS	2.9
1	A	2890	THR	2.9
1	B	2255	ASP	2.9

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Mol	Chain	Res	Type	RSRZ
2	T	215	PRO	2.9
1	B	3856	HIS	2.9
1	A	3942	ARG	2.9
1	B	1619	VAL	2.9
1	B	2432	LEU	2.9
2	S	105	VAL	2.9
1	A	3379	TRP	2.9
1	A	2146	LYS	2.9
1	A	2086	THR	2.9
1	A	3535	THR	2.9
1	B	1805	THR	2.9
1	B	2731	PRO	2.9
1	B	2946	PRO	2.9
1	B	3004	THR	2.9
2	S	6	TYR	2.9
1	A	2355	ASP	2.9
1	B	2329	ASP	2.9
1	B	3395	SER	2.9
2	T	194	SER	2.9
1	A	2287	ALA	2.9
1	A	2834	LEU	2.9
1	A	3858	HIS	2.9
1	B	1908	LEU	2.9
1	B	3584	MET	2.9
1	B	3013	ASN	2.9
1	A	1439	SER	2.9
1	A	1630	LEU	2.9
1	A	2307	ASP	2.9
1	A	3463	SER	2.9
1	A	3688	THR	2.9
1	B	2613	SER	2.9
1	B	2713	VAL	2.9
1	A	3672	ASP	2.9
1	A	4019	ASP	2.9
1	A	2527	GLU	2.9
1	A	1369	LYS	2.9
1	A	2923	LYS	2.9
1	A	1887	PRO	2.9
1	A	3353	LEU	2.9
1	B	2437	LEU	2.9
1	B	2894	PRO	2.9
1	B	3514	ARG	2.9

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Mol	Chain	Res	Type	RSRZ
1	B	3906	THR	2.9
1	A	2406	ASP	2.9
1	A	3376	LYS	2.9
1	B	3791	GLU	2.9
1	A	1673	TRP	2.9
1	A	2138	ASN	2.9
1	A	3930	PHE	2.9
1	B	1791	GLY	2.9
1	A	2524	VAL	2.9
1	B	2108	VAL	2.9
1	B	3585	VAL	2.9
2	S	57	TYR	2.9
2	S	91	ILE	2.9
1	B	3886	ALA	2.9
1	A	3416	THR	2.9
1	A	3936	HIS	2.9
1	B	2377	SER	2.9
1	B	3781	SER	2.9
2	S	92	SER	2.9
1	A	1943	LYS	2.9
1	A	2805	ASP	2.9
1	B	3297	LYS	2.9
1	A	4074	GLU	2.9
2	S	95	GLU	2.9
1	A	1829	GLN	2.9
2	T	121	PHE	2.9
1	A	3391	LEU	2.9
1	B	1460	GLY	2.9
1	A	1619	VAL	2.8
1	A	2531	ILE	2.8
1	B	2529	ILE	2.8
1	A	3886	ALA	2.8
1	A	2424	LYS	2.8
1	A	3693	LYS	2.8
1	A	1958	SER	2.8
1	A	3921	SER	2.8
2	T	35	ASP	2.8
1	B	1756	LEU	2.8
1	A	2642	ARG	2.8
1	A	3340	ARG	2.8
1	B	1712	ILE	2.8
1	B	2689	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	2405	TYR	2.8
1	A	2991	TYR	2.8
1	A	4025	PRO	2.8
1	A	2015	LYS	2.8
1	A	2505	PHE	2.8
1	A	3841	LEU	2.8
1	A	4046	THR	2.8
1	B	2909	PHE	2.8
1	B	3495	PHE	2.8
1	B	3933	SER	2.8
2	T	65	THR	2.8
1	B	2285	GLU	2.8
1	B	4074	GLU	2.8
1	A	1622	GLN	2.8
2	S	60	GLY	2.8
1	A	1672	TYR	2.8
1	A	3696	MET	2.8
1	A	2198	ASN	2.8
1	B	4008	ALA	2.8
2	T	171	ALA	2.8
1	A	1674	LYS	2.8
1	B	2365	LYS	2.8
2	S	112	LYS	2.8
1	A	1951	HIS	2.8
2	S	12	LEU	2.8
1	B	1981	SER	2.8
1	B	2202	THR	2.8
1	A	1675	GLU	2.8
1	A	3682	VAL	2.8
1	B	2390	ILE	2.8
1	B	2945	VAL	2.8
1	B	3400	SER	2.8
1	B	3645	SER	2.8
1	B	3836	GLY	2.8
2	T	120	ASP	2.8
2	S	185	ILE	2.8
1	A	1686	LYS	2.8
1	B	1381	ALA	2.8
1	B	2537	PRO	2.8
1	A	3761	ASN	2.8
1	A	3773	ASN	2.8
1	A	1953	LEU	2.8

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Mol	Chain	Res	Type	RSRZ
1	B	2611	LEU	2.8
1	A	3390	PHE	2.8
1	A	3397	VAL	2.8
1	B	1816	VAL	2.8
1	B	2091	MET	2.8
1	B	2122	THR	2.8
1	B	3513	VAL	2.8
1	A	1937	MET	2.8
1	B	2596	SER	2.8
1	B	2847	GLU	2.8
1	B	3586	THR	2.8
1	A	2016	ASP	2.8
1	A	3714	GLN	2.8
2	S	29	GLU	2.8
1	A	1376	LYS	2.8
1	A	2593	ALA	2.8
1	B	1780	ALA	2.8
1	B	2438	TYR	2.8
1	B	1663	CYS	2.8
1	A	1851	ASN	2.8
1	A	2270	ASN	2.8
1	A	3407	LEU	2.8
1	B	2003	LEU	2.8
1	B	4089	LEU	2.8
1	B	2371	PHE	2.8
1	A	3015	ARG	2.8
1	A	2450	THR	2.8
1	A	3808	LYS	2.8
1	B	1480	THR	2.8
1	B	2435	SER	2.8
1	B	2517	LYS	2.8
2	T	77	LYS	2.8
1	A	1404	ALA	2.8
1	B	3421	TYR	2.8
1	B	1744	LEU	2.8
1	A	1748	PHE	2.8
1	A	2154	PHE	2.8
1	A	1640	VAL	2.8
1	B	2133	ILE	2.8
1	B	2150	ILE	2.8
1	B	2745	ILE	2.8
1	B	3321	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	3846	MET	2.8
2	T	78	HIS	2.8
1	B	1406	LYS	2.8
1	B	2580	LYS	2.8
1	A	1839	THR	2.8
1	A	3666	ALA	2.8
1	A	3845	GLN	2.8
1	B	1380	GLU	2.8
1	B	1410	GLU	2.8
1	B	1661	GLU	2.8
1	B	2665	GLU	2.8
1	B	3748	TRP	2.8
1	B	3679	TYR	2.8
1	B	2644	LEU	2.8
1	B	4059	LEU	2.8
2	T	47	LEU	2.8
1	A	2139	ASP	2.8
1	A	2412	ARG	2.7
1	A	4007	VAL	2.7
1	B	2192	ILE	2.7
2	T	53	ASN	2.7
1	B	2118	MET	2.7
1	A	2116	GLY	2.7
1	B	1628	GLY	2.7
1	B	3996	GLY	2.7
1	B	2650	TYR	2.7
2	T	169	LEU	2.7
2	S	141	TYR	2.7
1	A	3712	SER	2.7
1	B	2562	PRO	2.7
1	B	1847	PHE	2.7
1	A	1976	VAL	2.7
1	B	3986	ARG	2.7
1	B	3659	LYS	2.7
1	B	3741	ASN	2.7
1	A	1801	GLY	2.7
1	A	2564	GLY	2.7
1	B	2806	CYS	2.7
1	A	2201	HIS	2.7
1	B	1953	LEU	2.7
1	A	2802	ALA	2.7
1	A	3864	ALA	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	3364	TYR	2.7
1	A	2669	PHE	2.7
1	B	1622	GLN	2.7
1	B	3563	GLU	2.7
1	B	3607	PHE	2.7
1	A	3459	ASP	2.7
1	B	1632	ASP	2.7
1	B	2105	ASP	2.7
1	B	3409	ASP	2.7
1	B	4007	VAL	2.7
2	S	107	ARG	2.7
1	A	2143	GLY	2.7
1	B	1927	GLY	2.7
1	B	3420	ASN	2.7
1	B	3596	ASN	2.7
2	S	82	GLY	2.7
1	B	2097	HIS	2.7
1	B	2929	ALA	2.7
2	T	84	CYS	2.7
1	B	3401	GLN	2.7
2	T	127	GLU	2.7
1	A	1781	THR	2.7
1	B	2142	THR	2.7
1	B	2186	ILE	2.7
1	A	1370	SER	2.7
1	A	4042	ARG	2.7
1	B	2690	SER	2.7
1	B	1784	ASP	2.7
1	B	4019	ASP	2.7
1	A	3557	LEU	2.7
1	B	2304	ASN	2.7
1	B	2855	ASN	2.7
2	T	69	ALA	2.7
1	B	1828	TYR	2.7
1	B	3313	PHE	2.7
1	B	3366	PHE	2.7
1	B	2342	ILE	2.7
1	B	3325	ILE	2.7
2	S	14	GLN	2.7
1	A	2196	THR	2.7
1	B	2710	THR	2.7
1	A	4059	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	1469	LEU	2.7
2	T	189	ASP	2.7
1	A	1938	GLY	2.7
1	A	2042	GLY	2.7
1	B	2061	TYR	2.7
1	B	2282	ASN	2.7
1	B	3025	ASN	2.7
1	A	2894	PRO	2.7
1	A	1393	LYS	2.7
1	B	2739	VAL	2.7
1	B	4042	ARG	2.7
1	A	2806	CYS	2.7
1	A	1496	THR	2.7
1	A	2581	LEU	2.7
1	A	3408	LEU	2.7
1	B	2170	LEU	2.7
1	B	2005	SER	2.7
1	B	2456	SER	2.7
1	B	3818	SER	2.7
1	A	3679	TYR	2.7
1	A	3824	TYR	2.7
1	B	1502	ILE	2.7
1	B	1636	ILE	2.7
1	A	2411	LYS	2.7
1	B	3340	ARG	2.7
1	B	3993	VAL	2.7
2	T	179	LYS	2.7
1	A	4091	GLU	2.7
1	A	1493	LEU	2.7
1	A	4089	LEU	2.7
1	B	3879	LEU	2.7
1	B	1457	GLY	2.7
1	B	3383	GLY	2.7
1	A	2076	ALA	2.6
2	S	97	ALA	2.6
1	A	1922	LYS	2.6
1	A	2898	LYS	2.6
1	A	3746	TYR	2.6
1	B	2062	TYR	2.6
1	B	2891	ILE	2.6
1	B	4029	ILE	2.6
2	S	58	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	4066	PRO	2.6
1	B	1444	ASN	2.6
1	B	2667	ASN	2.6
1	A	2401	GLU	2.6
1	A	3800	LEU	2.6
1	B	1925	GLN	2.6
1	B	3842	GLN	2.6
1	A	2793	SER	2.6
2	T	178	PHE	2.6
1	B	1644	ILE	2.6
1	B	2893	ASP	2.6
2	S	145	ASP	2.6
1	B	2997	ARG	2.6
1	A	2484	LEU	2.6
1	A	2783	GLN	2.6
1	B	3890	GLN	2.6
1	B	4040	GLU	2.6
1	A	3647	GLY	2.6
1	B	2485	PHE	2.6
2	T	148	THR	2.6
1	A	3510	ARG	2.6
2	S	34	ARG	2.6
1	B	2353	LEU	2.6
1	B	3601	LEU	2.6
2	T	186	PRO	2.6
1	B	1411	GLU	2.6
1	B	2164	GLU	2.6
1	B	2481	ASN	2.6
1	B	1476	PHE	2.6
1	A	2645	ILE	2.6
1	B	1652	ALA	2.6
1	B	2993	ILE	2.6
1	A	1512	THR	2.6
1	A	2070	LEU	2.6
1	A	2297	SER	2.6
1	A	3760	LEU	2.6
1	B	1711	VAL	2.6
1	B	2953	VAL	2.6
1	B	3590	LEU	2.6
1	A	2912	CYS	2.6
1	B	1797	PRO	2.6
1	B	2541	PRO	2.6

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Mol	Chain	Res	Type	RSRZ
2	T	126	PRO	2.6
2	T	168	CYS	2.6
1	A	2523	TRP	2.6
1	A	3588	ASN	2.6
1	B	3961	PHE	2.6
1	B	2576	LYS	2.6
1	B	2760	GLY	2.6
1	A	1698	ILE	2.6
1	A	2260	ALA	2.6
1	A	2605	ALA	2.6
1	A	1834	LEU	2.6
1	A	3295	LEU	2.6
1	A	3690	LEU	2.6
1	A	1562	MET	2.6
1	B	1489	ARG	2.6
1	B	2313	VAL	2.6
1	B	2654	ARG	2.6
2	T	117	LEU	2.6
2	S	93	MET	2.6
1	A	3917	THR	2.6
1	B	3991	THR	2.6
1	A	3294	SER	2.6
1	A	4084	SER	2.6
1	B	2876	TRP	2.6
1	B	2406	ASP	2.6
2	T	165	ASP	2.6
1	A	3798	PHE	2.6
1	B	3686	PHE	2.6
2	T	152	PHE	2.6
1	A	1855	GLU	2.6
1	A	2399	LYS	2.6
1	A	2513	GLN	2.6
1	A	2778	GLY	2.6
1	A	3312	GLN	2.6
1	B	2956	GLU	2.6
1	B	3442	ASN	2.6
1	A	1776	LEU	2.6
1	A	4043	ALA	2.6
1	B	2287	ALA	2.6
1	B	2649	ALA	2.6
2	S	117	LEU	2.6
1	B	3706	TYR	2.6

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Mol	Chain	Res	Type	RSRZ
2	T	141	TYR	2.6
1	A	2031	SER	2.6
1	A	2820	SER	2.6
1	B	3921	SER	2.6
1	A	1561	PHE	2.6
1	A	3023	LYS	2.6
1	A	3958	ASP	2.6
1	B	2396	ASP	2.6
1	A	2944	ILE	2.6
1	B	1896	ILE	2.6
1	B	2352	GLU	2.6
1	B	2958	ILE	2.6
1	B	4091	GLU	2.6
1	A	1373	ARG	2.6
1	A	4020	ASN	2.6
1	B	1532	ARG	2.6
1	B	1655	MET	2.6
1	B	2831	MET	2.6
1	A	1566	PHE	2.5
1	A	1641	SER	2.5
1	A	1809	PHE	2.5
1	A	2844	PHE	2.5
1	A	3448	SER	2.5
1	B	1468	PHE	2.5
1	B	2120	LYS	2.5
1	B	3436	PHE	2.5
1	B	3625	SER	2.5
1	A	4063	LEU	2.5
1	B	2380	LEU	2.5
2	T	9	ILE	2.5
1	B	3647	GLY	2.5
2	S	4	LEU	2.5
2	S	120	ASP	2.5
1	A	1585	VAL	2.5
1	A	3433	GLU	2.5
1	B	2052	GLU	2.5
1	B	2511	GLU	2.5
1	B	1979	ASN	2.5
1	B	2430	ASN	2.5
1	A	2682	PRO	2.5
1	A	1484	LYS	2.5
1	A	1563	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	1970	LEU	2.5
1	A	3484	HIS	2.5
1	B	1985	SER	2.5
1	B	2242	SER	2.5
1	B	3913	SER	2.5
2	S	1	SER	2.5
2	S	49	LEU	2.5
2	S	195	SER	2.5
1	A	3322	GLY	2.5
1	A	3777	VAL	2.5
1	B	1543	ASP	2.5
1	B	2911	ARG	2.5
1	B	1989	GLU	2.5
1	B	2247	ASP	2.5
1	B	3865	ALA	2.5
1	B	3382	CYS	2.5
1	A	2585	PHE	2.5
1	B	1450	PHE	2.5
1	B	3916	PHE	2.5
1	A	2578	ILE	2.5
1	B	1888	LEU	2.5
1	A	1862	SER	2.5
1	A	3395	SER	2.5
1	A	4058	SER	2.5
1	B	1801	GLY	2.5
1	B	2181	GLY	2.5
1	B	4058	SER	2.5
2	T	212	GLY	2.5
1	A	1612	ASP	2.5
1	A	2639	GLN	2.5
1	A	3401	GLN	2.5
1	B	1464	ASP	2.5
1	B	2898	LYS	2.5
2	S	77	LYS	2.5
1	A	2617	PHE	2.5
1	B	2823	LEU	2.5
1	B	2885	LEU	2.5
2	S	202	LEU	2.5
1	A	1842	GLY	2.5
1	A	3347	VAL	2.5
1	A	2614	HIS	2.5
2	T	83	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	1957	SER	2.5
1	B	2082	ALA	2.5
1	A	2340	GLN	2.5
1	A	2947	GLU	2.5
1	A	2234	TYR	2.5
1	A	2574	TYR	2.5
1	B	2115	TYR	2.5
1	B	2678	ASP	2.5
1	A	3641	PHE	2.5
1	B	3963	PHE	2.5
1	A	2544	ILE	2.5
1	A	3460	PRO	2.5
1	B	2230	LEU	2.5
1	B	1579	ILE	2.5
1	B	4032	PRO	2.5
1	A	1656	TRP	2.5
1	A	1810	GLY	2.5
1	A	2128	GLY	2.5
1	A	3512	ARG	2.5
1	A	3986	ARG	2.5
1	B	1845	GLY	2.5
1	B	3982	TRP	2.5
1	A	1388	HIS	2.5
1	B	1466	GLN	2.5
1	B	2340	GLN	2.5
1	B	2923	LYS	2.5
2	T	174	LYS	2.5
1	A	1916	PHE	2.5
1	A	2227	ASP	2.5
1	A	2835	LEU	2.5
1	A	2934	ASP	2.5
1	A	3337	LEU	2.5
1	A	3874	PHE	2.5
1	B	3369	TYR	2.5
2	T	145	ASP	2.5
2	T	55	PRO	2.5
1	A	1857	VAL	2.5
1	A	3444	VAL	2.5
1	A	3765	ASN	2.5
1	A	3934	TRP	2.5
1	A	1793	CYS	2.5
1	A	3754	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	3535	THR	2.5
1	B	1618	SER	2.5
1	A	1918	GLU	2.5
1	A	2059	GLN	2.5
1	A	2873	LEU	2.5
1	A	3791	GLU	2.5
1	B	2310	LEU	2.5
1	B	3632	LEU	2.5
1	B	3711	GLU	2.5
1	B	3774	ILE	2.5
1	A	2197	ASP	2.5
2	T	151	ASP	2.5
1	A	1995	VAL	2.5
1	A	2791	ASN	2.5
1	B	1871	GLY	2.5
1	A	2457	ALA	2.5
1	B	1490	ALA	2.5
1	B	3983	ALA	2.5
1	A	2248	LYS	2.5
1	A	2037	CYS	2.4
1	B	3878	HIS	2.5
1	A	1993	THR	2.4
1	B	2676	THR	2.4
1	A	2339	ILE	2.4
1	B	2112	GLU	2.4
1	B	2401	GLU	2.4
1	B	2566	SER	2.4
1	B	2643	SER	2.4
1	A	2185	PRO	2.4
1	B	1503	PRO	2.4
1	A	2882	ALA	2.4
1	A	1707	HIS	2.4
1	A	2432	LEU	2.4
1	A	3747	LEU	2.4
1	B	1967	HIS	2.4
1	B	1980	CYS	2.4
1	B	2331	THR	2.4
1	B	2575	TYR	2.4
1	B	1804	GLU	2.4
1	B	4035	GLN	2.4
1	A	1499	VAL	2.4
1	B	2543	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	2107	LYS	2.4
1	B	2679	LYS	2.4
1	B	2291	ALA	2.4
1	B	3848	LEU	2.4
1	A	3613	ASN	2.4
2	T	45	PHE	2.4
1	B	2531	ILE	2.4
2	S	198	ILE	2.4
1	A	3642	TYR	2.4
1	A	3553	THR	2.4
1	B	2890	THR	2.4
1	B	3598	GLU	2.4
1	B	3630	SER	2.4
1	A	2159	ASP	2.4
1	A	2652	ALA	2.4
1	B	1527	LEU	2.4
1	B	1684	LEU	2.4
1	B	2593	ALA	2.4
1	B	3909	ASP	2.4
2	T	94	LEU	2.4
1	A	1919	PHE	2.4
1	A	3657	PHE	2.4
1	A	2149	ARG	2.4
1	A	2788	ARG	2.4
1	A	4067	ARG	2.4
1	B	2663	VAL	2.4
1	A	2810	GLU	2.4
1	B	1886	THR	2.4
1	B	2452	GLU	2.4
2	T	216	PRO	2.4
1	A	2113	SER	2.4
1	A	2608	SER	2.4
1	A	3447	GLY	2.4
1	A	1843	ALA	2.4
1	A	2929	ALA	2.4
1	B	3379	TRP	2.4
1	B	1951	HIS	2.4
2	T	62	VAL	2.4
2	T	93	MET	2.4
1	A	1425	GLU	2.4
1	B	3558	LYS	2.4
2	S	63	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	2018	LEU	2.4
1	A	3630	SER	2.4
1	B	1962	SER	2.4
2	T	162	LEU	2.4
2	S	111	SER	2.4
1	A	3779	ALA	2.4
1	B	2078	CYS	2.4
1	A	3844	ILE	2.4
1	B	2944	ILE	2.4
1	A	1731	VAL	2.4
1	A	1836	VAL	2.4
1	B	1818	VAL	2.4
1	B	2412	ARG	2.4
1	B	1393	LYS	2.4
1	A	3008	GLN	2.4
1	B	2455	LEU	2.4
1	B	1550	GLY	2.4
1	B	2116	GLY	2.4
1	B	3880	THR	2.4
2	T	11	GLY	2.4
1	A	2577	ALA	2.4
1	B	1862	SER	2.4
1	B	2053	PHE	2.4
1	B	2132	SER	2.4
1	B	2269	SER	2.4
1	B	2382	ALA	2.4
1	A	2372	CYS	2.4
1	B	2603	CYS	2.4
1	A	3493	LYS	2.4
1	A	3544	LYS	2.4
1	A	3788	MET	2.4
1	B	2830	ARG	2.4
1	B	2883	LYS	2.4
1	B	3018	ASN	2.4
1	B	3552	ASN	2.4
1	A	1792	GLY	2.3
1	A	2829	GLU	2.3
1	A	2207	ILE	2.3
1	A	3689	ALA	2.3
1	B	2318	ILE	2.3
1	B	3505	ILE	2.3
1	B	3759	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	2528	ARG	2.3
1	A	3859	VAL	2.3
1	A	2756	MET	2.3
1	A	1608	LEU	2.3
1	A	2353	LEU	2.3
1	A	2874	TYR	2.3
1	A	3882	ASP	2.3
1	B	3459	ASP	2.3
1	A	3675	LEU	2.3
2	S	197	TYR	2.3
1	A	2735	HIS	2.3
1	B	2787	HIS	2.3
1	A	1387	GLU	2.3
1	B	1440	GLU	2.3
1	B	1578	PHE	2.3
1	B	1821	ASN	2.3
1	B	2954	PHE	2.3
1	B	4020	ASN	2.3
1	B	1860	ALA	2.3
1	B	2903	ILE	2.3
1	A	2676	THR	2.3
1	B	2722	THR	2.3
1	B	3737	THR	2.3
1	A	2618	SER	2.3
1	A	1681	LYS	2.3
1	A	2932	MET	2.3
1	B	3760	LEU	2.3
1	A	3916	PHE	2.3
1	A	4070	ILE	2.3
1	B	2671	GLN	2.3
1	B	3418	ILE	2.3
1	B	3392	GLU	2.3
1	A	2279	ARG	2.3
1	B	2763	ARG	2.3
2	T	181	ARG	2.3
1	A	2690	SER	2.3
1	A	3583	LEU	2.3
1	B	1522	SER	2.3
1	B	1785	SER	2.3
1	B	3758	SER	2.3
1	A	2204	PRO	2.3
1	A	3639	HIS	2.3

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Mol	Chain	Res	Type	RSRZ
2	T	48	GLY	2.3
1	A	1417	ALA	2.3
1	A	2959	GLN	2.3
1	B	2463	ASN	2.3
1	A	2313	VAL	2.3
1	A	3449	VAL	2.3
1	B	2018	LEU	2.3
1	B	2528	ARG	2.3
1	B	2664	LYS	2.3
1	B	3437	VAL	2.3
1	B	3015	ARG	2.3
1	B	3891	ARG	2.3
2	S	8	LYS	2.3
1	A	2506	LEU	2.3
1	A	3515	LEU	2.3
1	B	3762	TRP	2.3
1	A	2377	SER	2.3
1	A	2900	SER	2.3
1	B	1483	TYR	2.3
1	B	1961	SER	2.3
1	B	1707	HIS	2.3
1	B	4070	ILE	2.3
1	B	3435	GLY	2.3
2	S	204	GLY	2.3
1	A	2595	ALA	2.3
1	A	2039	LYS	2.3
1	A	2447	LYS	2.3
1	B	3359	LYS	2.3
1	B	3675	LEU	2.3
1	B	3860	GLU	2.3
1	B	4080	GLU	2.3
1	B	2343	ASN	2.3
2	T	79	ASN	2.3
1	B	2208	THR	2.3
1	B	2214	TRP	2.3
1	B	2561	TYR	2.3
1	B	2926	SER	2.3
1	B	1620	PHE	2.3
1	B	2404	PHE	2.3
1	A	3667	ALA	2.3
1	A	2935	VAL	2.3
1	A	3371	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
2	T	100	ASP	2.3
1	A	2751	GLN	2.3
1	A	4065	LEU	2.3
1	B	2054	LEU	2.3
1	B	2712	LEU	2.3
1	A	3469	GLU	2.3
1	B	3696	MET	2.3
1	B	2688	ASN	2.3
1	B	3652	CYS	2.3
1	A	2464	TYR	2.3
1	A	3638	PHE	2.3
1	A	2414	ILE	2.3
1	A	2903	ILE	2.3
1	A	1552	GLY	2.3
1	B	2143	GLY	2.3
1	A	1471	LEU	2.3
1	A	2163	VAL	2.3
1	A	2672	LEU	2.3
1	A	4006	VAL	2.3
1	B	1755	LEU	2.3
1	B	2792	LEU	2.3
1	B	2738	MET	2.3
1	A	1883	GLU	2.2
1	A	3304	GLU	2.2
1	B	3914	GLN	2.3
2	S	87	GLU	2.2
1	A	2817	ILE	2.2
1	B	1524	SER	2.2
1	A	2407	LEU	2.2
1	B	2204	PRO	2.2
1	B	3678	LEU	2.2
1	B	3964	ALA	2.2
1	B	4010	LEU	2.2
2	S	126	PRO	2.2
1	B	3291	ALA	2.2
1	B	3358	VAL	2.2
1	B	2886	HIS	2.2
1	A	3361	ASP	2.2
1	B	1556	ASP	2.2
1	B	2796	ASP	2.2
1	A	1498	GLU	2.2
1	A	3598	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	2124	GLU	2.2
2	T	29	GLU	2.2
1	B	1705	TYR	2.2
1	B	2141	ILE	2.2
1	B	1560	LYS	2.2
1	B	3378	LYS	2.2
2	T	118	LYS	2.2
1	A	1639	VAL	2.2
1	A	3912	GLY	2.2
1	B	2163	VAL	2.2
1	B	2188	PRO	2.2
1	B	2906	PRO	2.2
1	A	1691	SER	2.2
1	A	2321	SER	2.2
1	A	2456	SER	2.2
1	B	2948	VAL	2.2
1	B	1562	MET	2.2
1	A	3828	GLU	2.2
1	B	2772	PHE	2.2
1	B	2942	ASP	2.2
1	A	2630	TYR	2.2
1	A	2822	ILE	2.2
1	B	1378	TRP	2.2
1	B	3591	LYS	2.2
1	A	2910	ASN	2.2
1	B	2231	ASN	2.2
1	A	1700	ALA	2.2
1	A	3005	ALA	2.2
1	B	2451	THR	2.2
1	B	2761	ALA	2.2
1	A	3913	SER	2.2
1	B	1515	SER	2.2
1	A	3963	PHE	2.2
1	A	2726	GLU	2.2
1	A	3582	GLU	2.2
1	B	2088	ILE	2.2
1	B	3999	ASP	2.2
1	B	4057	ASP	2.2
2	T	36	GLU	2.2
1	A	2115	TYR	2.2
2	S	39	LYS	2.2
1	B	1516	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
2	S	200	TRP	2.2
1	A	1709	ASN	2.2
1	A	2167	ASN	2.2
1	B	1654	VAL	2.2
1	B	2191	ARG	2.2
2	S	11	GLY	2.2
2	S	212	GLY	2.2
1	A	1626	CYS	2.2
1	B	3639	HIS	2.2
1	A	1777	ILE	2.2
1	A	2395	ILE	2.2
1	A	3525	ILE	2.2
1	A	3549	ILE	2.2
1	B	3635	PHE	2.2
1	A	1807	LYS	2.2
1	A	2351	GLN	2.2
1	A	3566	LEU	2.2
1	B	2416	LEU	2.2
2	T	14	GLN	2.2
1	B	3633	GLU	2.2
2	T	202	LEU	2.2
1	A	3483	ASP	2.2
1	B	2854	ASN	2.2
1	B	4023	ILE	2.2
1	B	4048	ILE	2.2
2	S	194	SER	2.2
1	A	1406	LYS	2.2
1	B	1683	LEU	2.2
1	B	2225	LYS	2.2
1	B	2684	GLN	2.2
1	A	1407	GLU	2.2
1	A	3302	GLU	2.2
1	B	2169	VAL	2.2
1	B	3698	MET	2.2
1	B	3776	ASP	2.2
1	B	2882	ALA	2.2
1	B	3902	GLY	2.2
1	A	3506	PRO	2.2
1	A	3363	ASN	2.2
1	A	3701	THR	2.2
1	A	1727	LEU	2.2
1	A	1955	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	1878	HIS	2.2
1	B	4088	LEU	2.2
2	T	54	LEU	2.2
1	A	3933	SER	2.2
1	A	1885	GLU	2.2
1	A	2017	GLU	2.2
1	A	3404	VAL	2.2
1	B	4090	GLN	2.2
1	B	1940	GLU	2.2
1	B	3434	GLU	2.2
1	B	2347	GLY	2.1
1	B	2653	TRP	2.2
1	B	3934	TRP	2.2
1	A	2998	ALA	2.1
1	A	3649	PHE	2.1
1	B	1523	LEU	2.1
1	B	1631	LYS	2.1
1	B	2123	LEU	2.1
1	B	3355	LYS	2.1
1	B	3623	LYS	2.1
2	T	39	LYS	2.1
1	A	1621	THR	2.1
2	T	214	HIS	2.1
1	A	2126	ARG	2.1
1	A	3706	TYR	2.1
1	A	1606	GLU	2.1
1	A	2572	GLU	2.1
1	B	1528	GLU	2.1
1	A	3918	GLY	2.1
1	A	3344	ASP	2.1
1	A	2781	ILE	2.1
1	A	3697	ILE	2.1
1	B	3016	PHE	2.1
1	B	3396	ILE	2.1
2	S	114	PHE	2.1
1	A	3843	ASN	2.1
1	A	1613	THR	2.1
1	A	3477	VAL	2.1
1	B	3988	HIS	2.1
2	T	41	ARG	2.1
1	A	2665	GLU	2.1
1	A	4038	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
2	S	25	GLU	2.1
1	A	2193	LEU	2.1
1	A	2723	PHE	2.1
1	A	3495	PHE	2.1
1	B	3704	CYS	2.1
1	B	3938	LEU	2.1
1	B	4063	LEU	2.1
1	A	2448	ASP	2.1
1	A	2963	ASP	2.1
1	B	2040	ASP	2.1
2	S	38	ASP	2.1
1	A	2629	VAL	2.1
1	A	3476	ARG	2.1
1	B	2574	TYR	2.1
1	B	3439	ARG	2.1
1	A	2765	GLY	2.1
1	B	1869	GLN	2.1
1	B	2007	GLY	2.1
1	B	2350	SER	2.1
1	A	3838	TRP	2.1
1	B	1607	TRP	2.1
1	B	2212	LEU	2.1
1	B	2458	LEU	2.1
1	B	2484	LEU	2.1
1	B	2522	LYS	2.1
1	B	3320	LEU	2.1
1	B	3627	LYS	2.1
1	B	3693	LYS	2.1
1	B	3708	PHE	2.1
2	T	180	LYS	2.1
2	S	196	LYS	2.1
1	B	1698	ILE	2.1
2	S	70	ILE	2.1
1	A	1822	CYS	2.1
1	B	2597	VAL	2.1
1	B	3479	VAL	2.1
1	B	2387	ARG	2.1
1	B	1966	TYR	2.1
1	B	3323	ASN	2.1
1	A	2083	THR	2.1
1	A	1814	GLY	2.1
1	A	1474	SER	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	1699	GLU	2.1
1	A	1957	SER	2.1
1	A	2233	SER	2.1
1	B	2618	SER	2.1
1	B	2811	SER	2.1
1	B	3754	LYS	2.1
1	B	1549	ILE	2.1
1	B	2848	GLU	2.1
1	B	3814	ILE	2.1
2	T	58	ILE	2.1
2	S	127	GLU	2.1
2	S	201	PRO	2.1
1	A	1366	VAL	2.1
1	B	1806	VAL	2.1
1	A	2549	ARG	2.1
1	A	1631	LYS	2.1
1	A	2522	LYS	2.1
1	A	3289	LEU	2.1
1	A	3705	LEU	2.1
1	B	1453	LEU	2.1
1	B	1975	GLY	2.1
1	B	2750	LYS	2.1
1	A	1873	GLN	2.1
1	A	1515	SER	2.1
1	A	1877	SER	2.1
1	A	2668	SER	2.1
1	A	4041	GLU	2.1
1	B	2737	SER	2.1
1	B	2810	GLU	2.1
1	B	2899	SER	2.1
1	A	1854	ASP	2.1
1	B	2963	ASP	2.1
1	B	4003	ASP	2.1
2	T	170	ASP	2.1
1	A	1438	LEU	2.1
1	A	3811	LEU	2.1
1	A	2215	PHE	2.1
1	A	2293	HIS	2.1
1	B	2158	LEU	2.1
1	B	3744	LEU	2.1
1	A	1647	ALA	2.1
1	A	2786	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	2914	ILE	2.1
1	A	3496	ILE	2.1
1	A	3699	ALA	2.1
1	B	1938	GLY	2.1
1	B	4026	GLY	2.1
1	B	4078	ALA	2.1
1	A	2671	GLN	2.1
1	B	1488	THR	2.1
1	A	3887	PRO	2.1
1	B	2793	SER	2.1
1	B	3419	SER	2.1
1	B	3502	SER	2.1
1	B	3687	SER	2.1
1	B	4068	GLU	2.1
1	A	2440	VAL	2.1
2	S	147	VAL	2.1
1	A	2586	ARG	2.0
1	B	2756	MET	2.0
1	A	1469	LEU	2.0
1	A	2780	LYS	2.0
1	A	1784	ASP	2.0
1	A	2040	ASP	2.0
1	A	3677	LEU	2.0
1	A	3330	TYR	2.0
1	B	1635	ASP	2.0
1	B	3677	LEU	2.0
1	A	1868	ILE	2.0
1	A	2133	ILE	2.0
1	A	2485	PHE	2.0
1	B	2656	PHE	2.0
1	B	3507	ILE	2.0
1	A	1788	GLN	2.0
1	A	2547	SER	2.0
1	A	2691	SER	2.0
1	A	3502	SER	2.0
1	A	3755	SER	2.0
1	A	3907	VAL	2.0
1	B	3294	SER	2.0
2	T	123	SER	2.0
1	A	1392	LEU	2.0
1	A	2250	LYS	2.0
1	A	3654	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
1	B	1807	LYS	2.0
1	B	3805	LYS	2.0
1	A	2443	ILE	2.0
1	A	3854	TYR	2.0
1	B	3746	TYR	2.0
2	T	173	PRO	2.0
1	A	3809	GLU	2.0
1	B	1885	GLU	2.0
1	B	2144	THR	2.0
1	B	3000	VAL	2.0
1	A	4092	MET	2.0
1	B	3339	GLU	2.0
2	S	28	GLU	2.0
1	A	4002	LYS	2.0
1	B	1882	LEU	2.0
1	B	1947	SER	2.0
1	B	3994	TYR	2.0
1	A	2291	ALA	2.0
1	B	1778	GLY	2.0
1	B	2595	ALA	2.0
1	B	2754	GLY	2.0
2	S	213	ASP	2.0
1	B	1788	GLN	2.0
1	B	2064	GLN	2.0
1	B	3682	VAL	2.0
1	A	2504	LEU	2.0
1	A	3392	GLU	2.0
1	A	4088	LEU	2.0
1	B	1686	LYS	2.0
1	B	1943	LYS	2.0
1	B	2651	GLU	2.0
2	T	137	CYS	2.0
1	A	1962	SER	2.0
1	A	1708	PHE	2.0
1	A	2281	PHE	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.