

ATOM	2598	CB	SER C	46	-49.461	23.238	77.118
ATOM	2599	OG	SER C	46	-50.204	24.013	76.205
ATOM	2600	H	SER C	46	-47.397	23.030	74.674
ATOM	2601	HG	SER C	46	-50.854	24.695	76.753
ATOM	2602	N	GLY C	47	-50.089	20.542	75.766
ATOM	2603	CA	GLY C	47	-50.888	19.775	74.842
ATOM	2604	C	GLY C	47	-51.687	18.712	75.562
ATOM	2605	O	GLY C	47	-51.752	18.703	76.795
ATOM	2606	H	GLY C	47	-50.099	20.292	76.827
ATOM	2607	N	LYS C	48	-52.263	17.797	74.783
ATOM	2608	CA	LYS C	48	-53.102	16.722	75.295
ATOM	2609	C	LYS C	48	-52.656	15.384	74.748
ATOM	2610	O	LYS C	48	-52.294	15.281	73.582
ATOM	2611	CB	LYS C	48	-54.546	16.943	74.862
ATOM	2612	CG	LYS C	48	-55.378	17.785	75.798
ATOM	2613	CD	LYS C	48	-56.761	17.981	75.215
ATOM	2614	CE	LYS C	48	-57.746	18.512	76.246
ATOM	2615	NZ	LYS C	48	-59.164	18.357	75.755
ATOM	2616	H	LYS C	48	-52.098	17.856	73.707
ATOM	2617	HZ1	LYS C	48	-59.853	18.743	76.506
ATOM	2618	HZ2	LYS C	48	-59.374	17.303	75.577
ATOM	2619	HZ3	LYS C	48	-59.290	18.915	74.827
ATOM	2620	N	THR C	49	-52.693	14.360	75.587
ATOM	2621	CA	THR C	49	-52.312	13.032	75.150
ATOM	2622	C	THR C	49	-53.384	12.481	74.208
ATOM	2623	O	THR C	49	-54.565	12.465	74.532
ATOM	2624	CB	THR C	49	-52.096	12.049	76.341
ATOM	2625	OG1	THR C	49	-53.303	11.951	77.111
ATOM	2626	CG2	THR C	49	-50.952	12.523	77.238
ATOM	2627	H	THR C	49	-53.016	14.517	76.616
ATOM	2628	HG1	THR C	49	-53.149	11.263	77.942
ATOM	2629	N	ALA C	50	-52.954	12.079	73.018
ATOM	2630	CA	ALA C	50	-53.843	11.502	72.006
ATOM	2631	C	ALA C	50	-54.297	10.094	72.432
ATOM	2632	O	ALA C	50	-53.898	9.601	73.469
ATOM	2633	CB	ALA C	50	-53.115	11.437	70.660
ATOM	2634	H	ALA C	50	-51.894	12.182	72.783
ATOM	2635	N	GLU C	51	-55.073	9.434	71.585
ATOM	2636	CA	GLU C	51	-55.585	8.087	71.867
ATOM	2637	C	GLU C	51	-54.551	7.038	72.269
ATOM	2638	O	GLU C	51	-54.774	6.242	73.177
ATOM	2639	CB	GLU C	51	-56.440	7.575	70.696
ATOM	2640	CG	GLU C	51	-56.058	8.119	69.328
ATOM	2641	CD	GLU C	51	-54.818	7.465	68.717
ATOM	2642	OE1	GLU C	51	-54.664	6.222	68.825
ATOM	2643	OE2	GLU C	51	-54.019	8.206	68.094
ATOM	2644	H	GLU C	51	-55.342	9.909	70.642
ATOM	2645	N	SER C	52	-53.406	7.057	71.607
ATOM	2646	CA	SER C	52	-52.347	6.108	71.901
ATOM	2647	C	SER C	52	-51.721	6.354	73.271
ATOM	2648	O	SER C	52	-50.836	5.611	73.678
ATOM	2649	CB	SER C	52	-51.256	6.214	70.838
ATOM	2650	OG	SER C	52	-50.518	7.422	70.993
ATOM	2651	H	SER C	52	-53.254	7.800	70.825
ATOM	2652	HG	SER C	52	-49.746	7.478	70.226
ATOM	2653	N	GLY C	53	-52.146	7.420	73.945
ATOM	2654	CA	GLY C	53	-51.605	7.767	75.246
ATOM	2655	C	GLY C	53	-50.430	8.733	75.136
ATOM	2656	O	GLY C	53	-50.066	9.390	76.114
ATOM	2657	H	GLY C	53	-52.921	8.049	73.508
ATOM	2658	N	GLU C	54	-49.834	8.828	73.944
ATOM	2659	CA	GLU C	54	-48.686	9.706	73.729
ATOM	2660	C	GLU C	54	-49.048	11.169	73.593

ATOM	2661	O	GLU	C	54	-50.185	11.543	73.840
ATOM	2662	CB	GLU	C	54	-47.917	9.256	72.506
ATOM	2663	CG	GLU	C	54	-46.928	8.168	72.800
ATOM	2664	CD	GLU	C	54	-46.679	7.243	71.623
ATOM	2665	OE1	GLU	C	54	-46.732	7.688	70.456
ATOM	2666	OE2	GLU	C	54	-46.438	6.044	71.887
ATOM	2667	H	GLU	C	54	-50.214	8.237	73.112
ATOM	2668	N	LEU	C	55	-48.049	12.005	73.302
ATOM	2669	CA	LEU	C	55	-48.236	13.451	73.101
ATOM	2670	C	LEU	C	55	-47.021	13.916	72.334
ATOM	2671	O	LEU	C	55	-45.977	14.188	72.919
ATOM	2672	CB	LEU	C	55	-48.318	14.234	74.422
ATOM	2673	CG	LEU	C	55	-48.947	15.644	74.346
ATOM	2674	CD1	LEU	C	55	-48.416	16.492	75.483
ATOM	2675	CD2	LEU	C	55	-48.685	16.354	73.005
ATOM	2676	H	LEU	C	55	-47.043	11.596	73.208
ATOM	2677	N	HIS	C	56	-47.176	14.034	71.023
ATOM	2678	CA	HIS	C	56	-46.076	14.428	70.149
ATOM	2679	C	HIS	C	56	-46.036	15.884	69.778
ATOM	2680	O	HIS	C	56	-47.074	16.489	69.540
ATOM	2681	CB	HIS	C	56	-46.149	13.647	68.840
ATOM	2682	CG	HIS	C	56	-45.959	12.174	68.994
ATOM	2683	ND1	HIS	C	56	-45.631	11.585	70.198
ATOM	2684	CD2	HIS	C	56	-46.032	11.172	68.091
ATOM	2685	CE1	HIS	C	56	-45.509	10.284	70.027
ATOM	2686	NE2	HIS	C	56	-45.744	10.005	68.757
ATOM	2687	H	HIS	C	56	-48.153	13.832	70.585
ATOM	2688	HD1	HIS	C	56	-45.493	12.113	71.141
ATOM	2689	N	GLY	C	57	-44.822	16.418	69.690
ATOM	2690	CA	GLY	C	57	-44.632	17.791	69.260
ATOM	2691	C	GLY	C	57	-44.444	18.903	70.268
ATOM	2692	O	GLY	C	57	-44.535	20.060	69.886
ATOM	2693	H	GLY	C	57	-43.953	15.812	69.945
ATOM	2694	N	LEU	C	58	-44.111	18.571	71.510
ATOM	2695	CA	LEU	C	58	-43.943	19.590	72.534
ATOM	2696	C	LEU	C	58	-42.904	20.681	72.256
ATOM	2697	O	LEU	C	58	-43.064	21.810	72.717
ATOM	2698	CB	LEU	C	58	-43.733	18.950	73.922
ATOM	2699	CG	LEU	C	58	-45.001	18.417	74.648
ATOM	2700	CD1	LEU	C	58	-44.648	17.796	76.009
ATOM	2701	CD2	LEU	C	58	-46.037	19.550	74.848
ATOM	2702	H	LEU	C	58	-43.962	17.522	71.765
ATOM	2703	N	THR	C	59	-41.855	20.358	71.498
ATOM	2704	CA	THR	C	59	-40.809	21.342	71.179
ATOM	2705	C	THR	C	59	-39.835	20.743	70.164
ATOM	2706	O	THR	C	59	-39.929	19.564	69.849
ATOM	2707	CB	THR	C	59	-40.022	21.778	72.481
ATOM	2708	OG1	THR	C	59	-39.164	22.887	72.186
ATOM	2709	CG2	THR	C	59	-39.155	20.627	73.026
ATOM	2710	H	THR	C	59	-41.773	19.345	71.104
ATOM	2711	HG1	THR	C	59	-38.627	23.180	73.087
ATOM	2712	N	THR	C	60	-38.980	21.573	69.575
ATOM	2713	CA	THR	C	60	-37.950	21.081	68.651
ATOM	2714	C	THR	C	60	-36.642	21.318	69.395
ATOM	2715	O	THR	C	60	-36.659	21.818	70.526
ATOM	2716	CB	THR	C	60	-37.893	21.862	67.303
ATOM	2717	OG1	THR	C	60	-37.712	23.260	67.547
ATOM	2718	CG2	THR	C	60	-39.151	21.649	66.491
ATOM	2719	H	THR	C	60	-39.045	22.641	69.782
ATOM	2720	HG1	THR	C	60	-37.674	23.793	66.596
ATOM	2721	N	ASP	C	61	-35.516	20.987	68.768
ATOM	2722	CA	ASP	C	61	-34.221	21.186	69.399
ATOM	2723	C	ASP	C	61	-33.834	22.663	69.479

ATOM	2724	O	ASP	C	61	-33.150	23.095	70.409
ATOM	2725	CB	ASP	C	61	-33.143	20.409	68.662
ATOM	2726	CG	ASP	C	61	-33.237	18.896	68.891
ATOM	2727	OD1	ASP	C	61	-32.977	18.425	70.019
ATOM	2728	OD2	ASP	C	61	-33.553	18.175	67.925
ATOM	2729	H	ASP	C	61	-35.567	20.560	67.766
ATOM	2730	N	GLU	C	62	-34.270	23.449	68.512
ATOM	2731	CA	GLU	C	62	-33.915	24.846	68.528
ATOM	2732	C	GLU	C	62	-34.503	25.519	69.789
ATOM	2733	O	GLU	C	62	-33.828	26.299	70.461
ATOM	2734	CB	GLU	C	62	-34.368	25.501	67.215
ATOM	2735	CG	GLU	C	62	-34.096	27.023	67.069
ATOM	2736	CD	GLU	C	62	-34.014	27.503	65.597
ATOM	2737	OE1	GLU	C	62	-33.787	26.662	64.691
ATOM	2738	OE2	GLU	C	62	-34.138	28.727	65.349
ATOM	2739	H	GLU	C	62	-34.889	23.046	67.711
ATOM	2740	N	LYS	C	63	-35.735	25.162	70.132
ATOM	2741	CA	LYS	C	63	-36.420	25.736	71.293
ATOM	2742	C	LYS	C	63	-35.968	25.078	72.605
ATOM	2743	O	LYS	C	63	-35.558	25.758	73.549
ATOM	2744	CB	LYS	C	63	-37.940	25.596	71.110
ATOM	2745	CG	LYS	C	63	-38.768	26.360	72.102
ATOM	2746	CD	LYS	C	63	-40.226	26.201	71.809
ATOM	2747	CE	LYS	C	63	-41.055	26.947	72.831
ATOM	2748	NZ	LYS	C	63	-41.749	28.152	72.258
ATOM	2749	H	LYS	C	63	-36.255	24.417	69.528
ATOM	2750	HZ1	LYS	C	63	-42.327	28.645	73.040
ATOM	2751	HZ2	LYS	C	63	-42.417	27.840	71.456
ATOM	2752	HZ3	LYS	C	63	-41.006	28.846	71.864
ATOM	2753	N	PHE	C	64	-36.039	23.748	72.624
ATOM	2754	CA	PHE	C	64	-35.648	22.909	73.760
ATOM	2755	C	PHE	C	64	-34.191	23.226	74.118
ATOM	2756	O	PHE	C	64	-33.274	22.777	73.421
ATOM	2757	CB	PHE	C	64	-35.780	21.448	73.327
ATOM	2758	CG	PHE	C	64	-35.745	20.462	74.452
ATOM	2759	CD1	PHE	C	64	-36.416	20.718	75.635
ATOM	2760	CD2	PHE	C	64	-35.052	19.258	74.309
ATOM	2761	CE1	PHE	C	64	-36.410	19.791	76.664
ATOM	2762	CE2	PHE	C	64	-35.033	18.323	75.329
ATOM	2763	CZ	PHE	C	64	-35.711	18.583	76.511
ATOM	2764	H	PHE	C	64	-36.414	23.249	71.730
ATOM	2765	N	THR	C	65	-33.974	23.983	75.197
ATOM	2766	CA	THR	C	65	-32.613	24.373	75.564
ATOM	2767	C	THR	C	65	-32.056	23.856	76.877
ATOM	2768	O	THR	C	65	-32.765	23.242	77.677
ATOM	2769	CB	THR	C	65	-32.459	25.909	75.591
ATOM	2770	OG1	THR	C	65	-33.410	26.462	76.501
ATOM	2771	CG2	THR	C	65	-32.676	26.514	74.198
ATOM	2772	H	THR	C	65	-34.815	24.311	75.808
ATOM	2773	HG1	THR	C	65	-33.305	27.547	76.522
ATOM	2774	N	GLU	C	66	-30.758	24.064	77.070
ATOM	2775	CA	GLU	C	66	-30.111	23.660	78.306
ATOM	2776	C	GLU	C	66	-30.865	24.435	79.382
ATOM	2777	O	GLU	C	66	-31.191	25.602	79.191
ATOM	2778	CB	GLU	C	66	-28.631	24.090	78.294
ATOM	2779	CG	GLU	C	66	-27.719	23.481	79.395
ATOM	2780	CD	GLU	C	66	-27.816	24.168	80.761
ATOM	2781	OE1	GLU	C	66	-28.166	25.368	80.818
ATOM	2782	OE2	GLU	C	66	-27.520	23.511	81.788
ATOM	2783	H	GLU	C	66	-30.169	24.547	76.290
ATOM	2784	N	GLY	C	67	-31.183	23.771	80.482
ATOM	2785	CA	GLY	C	67	-31.876	24.434	81.559
ATOM	2786	C	GLY	C	67	-32.834	23.481	82.192

ATOM	2787	O	GLY	C	67	-33.092	22.429	81.609
ATOM	2788	H	GLY	C	67	-30.919	22.718	80.576
ATOM	2789	N	VAL	C	68	-33.309	23.812	83.396
ATOM	2790	CA	VAL	C	68	-34.269	22.963	84.119
ATOM	2791	C	VAL	C	68	-35.679	23.231	83.590
ATOM	2792	O	VAL	C	68	-35.997	24.351	83.185
ATOM	2793	CB	VAL	C	68	-34.178	23.132	85.684
ATOM	2794	CG1	VAL	C	68	-34.328	24.584	86.095
ATOM	2795	CG2	VAL	C	68	-35.222	22.283	86.381
ATOM	2796	H	VAL	C	68	-32.974	24.741	83.857
ATOM	2797	N	TYR	C	69	-36.478	22.169	83.520
ATOM	2798	CA	TYR	C	69	-37.841	22.215	83.011
ATOM	2799	C	TYR	C	69	-38.803	21.635	84.024
ATOM	2800	O	TYR	C	69	-38.395	21.225	85.123
ATOM	2801	CB	TYR	C	69	-37.922	21.402	81.700
ATOM	2802	CG	TYR	C	69	-37.337	22.131	80.507
ATOM	2803	CD1	TYR	C	69	-38.051	23.148	79.866
ATOM	2804	CD2	TYR	C	69	-36.057	21.849	80.054
ATOM	2805	CE1	TYR	C	69	-37.494	23.865	78.808
ATOM	2806	CE2	TYR	C	69	-35.496	22.550	79.004
ATOM	2807	CZ	TYR	C	69	-36.213	23.561	78.378
ATOM	2808	OH	TYR	C	69	-35.644	24.262	77.321
ATOM	2809	H	TYR	C	69	-36.090	21.211	83.865
ATOM	2810	HH	TYR	C	69	-34.641	23.882	77.131
ATOM	2811	N	ARG	C	70	-40.073	21.539	83.639
ATOM	2812	CA	ARG	C	70	-41.084	20.968	84.521
ATOM	2813	C	ARG	C	70	-42.322	20.497	83.753
ATOM	2814	O	ARG	C	70	-43.001	21.296	83.126
ATOM	2815	CB	ARG	C	70	-41.443	21.977	85.619
ATOM	2816	CG	ARG	C	70	-42.622	22.869	85.334
ATOM	2817	CD	ARG	C	70	-43.802	22.394	86.151
ATOM	2818	NE	ARG	C	70	-43.533	22.637	87.562
ATOM	2819	CZ	ARG	C	70	-43.812	23.780	88.175
ATOM	2820	NH1	ARG	C	70	-44.385	24.765	87.501
ATOM	2821	NH2	ARG	C	70	-43.456	23.965	89.442
ATOM	2822	H	ARG	C	70	-40.361	21.892	82.649
ATOM	2823	HE	ARG	C	70	-43.078	21.836	88.145
ATOM	2824	HH1	ARG	C	70	-44.537	25.618	88.162
ATOM	2825	HH1	ARG	C	70	-44.662	24.729	86.447
ATOM	2826	HH2	ARG	C	70	-43.770	24.958	89.766
ATOM	2827	HH2	ARG	C	70	-42.932	23.237	90.061
ATOM	2828	N	VAL	C	71	-42.551	19.188	83.711
ATOM	2829	CA	VAL	C	71	-43.715	18.652	83.012
ATOM	2830	C	VAL	C	71	-44.800	18.525	84.068
ATOM	2831	O	VAL	C	71	-44.555	18.066	85.186
ATOM	2832	CB	VAL	C	71	-43.413	17.287	82.320
ATOM	2833	CG1	VAL	C	71	-44.593	16.838	81.494
ATOM	2834	CG2	VAL	C	71	-42.212	17.419	81.398
ATOM	2835	H	VAL	C	71	-41.861	18.506	84.207
ATOM	2836	N	GLU	C	72	-46.008	18.924	83.719
ATOM	2837	CA	GLU	C	72	-47.094	18.913	84.687
ATOM	2838	C	GLU	C	72	-48.364	18.263	84.123
ATOM	2839	O	GLU	C	72	-49.179	18.929	83.492
ATOM	2840	CB	GLU	C	72	-47.351	20.374	85.105
ATOM	2841	CG	GLU	C	72	-48.002	20.565	86.451
ATOM	2842	CD	GLU	C	72	-48.816	21.816	86.497
ATOM	2843	OE1	GLU	C	72	-50.003	21.731	86.136
ATOM	2844	OE2	GLU	C	72	-48.280	22.881	86.866
ATOM	2845	H	GLU	C	72	-46.193	19.268	82.701
ATOM	2846	N	LEU	C	73	-48.491	16.948	84.300
ATOM	2847	CA	LEU	C	73	-49.654	16.181	83.823
ATOM	2848	C	LEU	C	73	-50.775	16.275	84.856
ATOM	2849	O	LEU	C	73	-50.617	15.784	85.976

ATOM	2850	CB	LEU C	73	-49.315	14.702	83.687
ATOM	2851	CG	LEU C	73	-48.125	14.145	82.918
ATOM	2852	CD1	LEU C	73	-46.785	14.736	83.397
ATOM	2853	CD2	LEU C	73	-48.168	12.640	83.150
ATOM	2854	H	LEU C	73	-47.697	16.416	84.824
ATOM	2855	N	ASP C	74	-51.927	16.819	84.467
ATOM	2856	CA	ASP C	74	-53.020	16.953	85.418
ATOM	2857	C	ASP C	74	-53.826	15.709	85.701
ATOM	2858	O	ASP C	74	-55.000	15.604	85.363
ATOM	2859	CB	ASP C	74	-53.979	18.094	85.101
ATOM	2860	CG	ASP C	74	-54.948	18.333	86.260
ATOM	2861	OD1	ASP C	74	-54.488	18.254	87.418
ATOM	2862	OD2	ASP C	74	-56.156	18.527	86.038
ATOM	2863	H	ASP C	74	-52.051	17.160	83.439
ATOM	2864	N	THR C	75	-53.215	14.852	86.488
ATOM	2865	CA	THR C	75	-53.801	13.610	86.895
ATOM	2866	C	THR C	75	-55.195	13.728	87.540
ATOM	2867	O	THR C	75	-56.044	12.850	87.321
ATOM	2868	CB	THR C	75	-52.825	12.924	87.834
ATOM	2869	OG1	THR C	75	-52.232	13.889	88.690
ATOM	2870	CG2	THR C	75	-51.689	12.233	87.072
ATOM	2871	H	THR C	75	-52.216	15.098	86.847
ATOM	2872	HG1	THR C	75	-51.532	13.395	89.363
ATOM	2873	N	LYS C	76	-55.465	14.799	88.293
ATOM	2874	CA	LYS C	76	-56.795	14.949	88.892
ATOM	2875	C	LYS C	76	-57.961	15.072	87.891
ATOM	2876	O	LYS C	76	-58.888	14.254	87.912
ATOM	2877	CB	LYS C	76	-56.862	16.100	89.892
ATOM	2878	CG	LYS C	76	-58.275	16.274	90.460
ATOM	2879	CD	LYS C	76	-58.358	17.350	91.531
ATOM	2880	CE	LYS C	76	-57.819	16.852	92.886
ATOM	2881	NZ	LYS C	76	-57.705	17.995	93.818
ATOM	2882	H	LYS C	76	-54.699	15.556	88.461
ATOM	2883	HZ1	LYS C	76	-57.324	17.645	94.777
ATOM	2884	HZ2	LYS C	76	-58.687	18.447	93.961
ATOM	2885	HZ3	LYS C	76	-57.022	18.736	93.403
ATOM	2886	N	SER C	77	-57.915	16.063	87.005
ATOM	2887	CA	SER C	77	-58.995	16.235	86.021
ATOM	2888	C	SER C	77	-59.345	14.951	85.294
ATOM	2889	O	SER C	77	-60.505	14.733	84.960
ATOM	2890	CB	SER C	77	-58.654	17.313	84.998
ATOM	2891	OG	SER C	77	-59.076	18.587	85.451
ATOM	2892	H	SER C	77	-57.071	16.752	87.007
ATOM	2893	HG	SER C	77	-58.823	19.340	84.706
ATOM	2894	N	TYR C	78	-58.342	14.091	85.130
ATOM	2895	CA	TYR C	78	-58.456	12.808	84.453
ATOM	2896	C	TYR C	78	-59.337	11.778	85.154
ATOM	2897	O	TYR C	78	-60.355	11.355	84.599
ATOM	2898	CB	TYR C	78	-57.061	12.231	84.235
ATOM	2899	CG	TYR C	78	-57.048	10.869	83.572
ATOM	2900	CD1	TYR C	78	-57.622	10.683	82.318
ATOM	2901	CD2	TYR C	78	-56.407	9.780	84.177
ATOM	2902	CE1	TYR C	78	-57.556	9.473	81.682
ATOM	2903	CE2	TYR C	78	-56.337	8.554	83.542
ATOM	2904	CZ	TYR C	78	-56.914	8.409	82.303
ATOM	2905	OH	TYR C	78	-56.907	7.189	81.690
ATOM	2906	H	TYR C	78	-57.367	14.367	85.531
ATOM	2907	HH	TYR C	78	-56.365	6.474	82.309
ATOM	2908	N	TRP C	79	-58.913	11.314	86.332
ATOM	2909	CA	TRP C	79	-59.698	10.337	87.074
ATOM	2910	C	TRP C	79	-61.048	10.936	87.390
ATOM	2911	O	TRP C	79	-62.061	10.283	87.209
ATOM	2912	CB	TRP C	79	-59.021	9.947	88.383

ATOM	2913	CG	TRP	C	79	-57.724	9.270	88.188
ATOM	2914	CD1	TRP	C	79	-56.494	9.781	88.455
ATOM	2915	CD2	TRP	C	79	-57.509	7.952	87.674
ATOM	2916	NE1	TRP	C	79	-55.523	8.866	88.141
ATOM	2917	CE2	TRP	C	79	-56.123	7.733	87.654
ATOM	2918	CE3	TRP	C	79	-58.355	6.939	87.224
ATOM	2919	CZ2	TRP	C	79	-55.560	6.538	87.198
ATOM	2920	CZ3	TRP	C	79	-57.789	5.748	86.772
ATOM	2921	CH2	TRP	C	79	-56.410	5.563	86.763
ATOM	2922	H	TRP	C	79	-57.968	11.669	86.741
ATOM	2923	HE1	TRP	C	79	-54.450	9.013	88.259
ATOM	2924	N	LYS	C	80	-61.054	12.206	87.783
ATOM	2925	CA	LYS	C	80	-62.267	12.945	88.141
ATOM	2926	C	LYS	C	80	-63.349	12.894	87.085
ATOM	2927	O	LYS	C	80	-64.523	12.866	87.405
ATOM	2928	CB	LYS	C	80	-61.920	14.404	88.467
ATOM	2929	CG	LYS	C	80	-62.823	15.048	89.529
ATOM	2930	CD	LYS	C	80	-62.782	14.336	90.898
ATOM	2931	CE	LYS	C	80	-62.641	15.335	92.072
ATOM	2932	NZ	LYS	C	80	-63.648	16.460	92.077
ATOM	2933	H	LYS	C	80	-60.099	12.728	87.844
ATOM	2934	HZ1	LYS	C	80	-63.467	17.105	92.937
ATOM	2935	HZ2	LYS	C	80	-64.654	16.047	92.138
ATOM	2936	HZ3	LYS	C	80	-63.548	17.041	91.160
ATOM	2937	N	ALA	C	81	-62.941	12.857	85.829
ATOM	2938	CA	ALA	C	81	-63.857	12.784	84.703
ATOM	2939	C	ALA	C	81	-64.460	11.380	84.563
ATOM	2940	O	ALA	C	81	-65.298	11.145	83.691
ATOM	2941	CB	ALA	C	81	-63.120	13.143	83.448
ATOM	2942	H	ALA	C	81	-61.870	12.884	85.629
ATOM	2943	N	LEU	C	82	-63.973	10.442	85.367
ATOM	2944	CA	LEU	C	82	-64.457	9.066	85.356
ATOM	2945	C	LEU	C	82	-65.383	8.768	86.539
ATOM	2946	O	LEU	C	82	-66.216	7.852	86.471
ATOM	2947	CB	LEU	C	82	-63.292	8.078	85.431
ATOM	2948	CG	LEU	C	82	-62.195	8.082	84.390
ATOM	2949	CD1	LEU	C	82	-61.255	6.935	84.722
ATOM	2950	CD2	LEU	C	82	-62.767	7.957	82.992
ATOM	2951	H	LEU	C	82	-63.179	10.711	86.064
ATOM	2952	N	GLY	C	83	-65.186	9.518	87.629
ATOM	2953	CA	GLY	C	83	-65.968	9.341	88.842
ATOM	2954	C	GLY	C	83	-65.117	9.036	90.067
ATOM	2955	O	GLY	C	83	-65.639	8.958	91.189
ATOM	2956	H	GLY	C	83	-64.414	10.288	87.607
ATOM	2957	N	ILE	C	84	-63.811	8.879	89.860
ATOM	2958	CA	ILE	C	84	-62.876	8.581	90.943
ATOM	2959	C	ILE	C	84	-62.187	9.853	91.468
ATOM	2960	O	ILE	C	84	-61.615	10.624	90.680
ATOM	2961	CB	ILE	C	84	-61.774	7.579	90.484
ATOM	2962	CG1	ILE	C	84	-62.405	6.281	89.948
ATOM	2963	CG2	ILE	C	84	-60.829	7.286	91.642
ATOM	2964	CD1	ILE	C	84	-61.452	5.391	89.122
ATOM	2965	H	ILE	C	84	-63.425	8.973	88.845
ATOM	2966	N	SER	C	85	-62.301	10.100	92.778
ATOM	2967	CA	SER	C	85	-61.649	11.254	93.423
ATOM	2968	C	SER	C	85	-60.240	10.798	93.777
ATOM	2969	O	SER	C	85	-60.066	10.021	94.726
ATOM	2970	CB	SER	C	85	-62.381	11.690	94.708
ATOM	2971	OG	SER	C	85	-63.663	12.240	94.433
ATOM	2972	H	SER	C	85	-62.896	9.423	93.390
ATOM	2973	HG	SER	C	85	-64.141	12.533	95.368
ATOM	2974	N	PRO	C	86	-59.231	11.216	92.979
ATOM	2975	CA	PRO	C	86	-57.829	10.854	93.190

ATOM	2976	C	PRO	C	86	-57.166	11.566	94.345
ATOM	2977	O	PRO	C	86	-57.652	12.576	94.846
ATOM	2978	CB	PRO	C	86	-57.182	11.243	91.866
ATOM	2979	CG	PRO	C	86	-57.940	12.449	91.477
ATOM	2980	CD	PRO	C	86	-59.369	12.045	91.767
ATOM	2981	N	PHE	C	87	-56.021	11.044	94.737
ATOM	2982	CA	PHE	C	87	-55.257	11.602	95.836
ATOM	2983	C	PHE	C	87	-54.526	12.842	95.376
ATOM	2984	O	PHE	C	87	-54.717	13.921	95.915
ATOM	2985	CB	PHE	C	87	-54.237	10.576	96.290
ATOM	2986	CG	PHE	C	87	-53.610	10.873	97.612
ATOM	2987	CD1	PHE	C	87	-54.284	10.583	98.789
ATOM	2988	CD2	PHE	C	87	-52.318	11.387	97.684
ATOM	2989	CE1	PHE	C	87	-53.682	10.785	100.015
ATOM	2990	CE2	PHE	C	87	-51.715	11.595	98.908
ATOM	2991	CZ	PHE	C	87	-52.403	11.292	100.077
ATOM	2992	H	PHE	C	87	-55.638	10.164	94.221
ATOM	2993	N	HIS	C	88	-53.688	12.670	94.358
ATOM	2994	CA	HIS	C	88	-52.865	13.753	93.814
ATOM	2995	C	HIS	C	88	-53.649	14.830	93.065
ATOM	2996	O	HIS	C	88	-54.637	14.535	92.364
ATOM	2997	CB	HIS	C	88	-51.769	13.188	92.905
ATOM	2998	CG	HIS	C	88	-50.955	12.098	93.537
ATOM	2999	ND1	HIS	C	88	-51.351	10.775	93.536
ATOM	3000	CD2	HIS	C	88	-49.784	12.141	94.217
ATOM	3001	CE1	HIS	C	88	-50.460	10.056	94.198
ATOM	3002	NE2	HIS	C	88	-49.499	10.860	94.617
ATOM	3003	H	HIS	C	88	-53.611	11.681	93.907
ATOM	3004	HD1	HIS	C	88	-52.252	10.387	93.062
ATOM	3005	N	GLU	C	89	-53.194	16.077	93.231
ATOM	3006	CA	GLU	C	89	-53.810	17.242	92.605
ATOM	3007	C	GLU	C	89	-53.366	17.254	91.162
ATOM	3008	O	GLU	C	89	-54.077	17.723	90.275
ATOM	3009	CB	GLU	C	89	-53.315	18.544	93.258
ATOM	3010	CG	GLU	C	89	-53.567	18.708	94.763
ATOM	3011	CD	GLU	C	89	-55.038	18.687	95.121
ATOM	3012	OE1	GLU	C	89	-55.725	19.718	94.904
ATOM	3013	OE2	GLU	C	89	-55.505	17.627	95.620
ATOM	3014	H	GLU	C	89	-52.320	16.230	93.864
ATOM	3015	N	TYR	C	90	-52.143	16.781	90.955
ATOM	3016	CA	TYR	C	90	-51.527	16.734	89.636
ATOM	3017	C	TYR	C	90	-50.220	15.976	89.791
ATOM	3018	O	TYR	C	90	-49.900	15.507	90.892
ATOM	3019	CB	TYR	C	90	-51.285	18.154	89.125
ATOM	3020	CG	TYR	C	90	-50.638	19.062	90.141
ATOM	3021	CD1	TYR	C	90	-49.289	18.927	90.473
ATOM	3022	CD2	TYR	C	90	-51.366	20.054	90.767
ATOM	3023	CE1	TYR	C	90	-48.683	19.761	91.404
ATOM	3024	CE2	TYR	C	90	-50.772	20.893	91.699
ATOM	3025	CZ	TYR	C	90	-49.429	20.742	92.013
ATOM	3026	OH	TYR	C	90	-48.844	21.579	92.947
ATOM	3027	H	TYR	C	90	-51.575	16.411	91.809
ATOM	3028	HH	TYR	C	90	-49.586	22.287	93.316
ATOM	3029	N	ALA	C	91	-49.457	15.873	88.715
ATOM	3030	CA	ALA	C	91	-48.190	15.145	88.750
ATOM	3031	C	ALA	C	91	-47.109	15.927	88.021
ATOM	3032	O	ALA	C	91	-47.378	16.612	87.025
ATOM	3033	CB	ALA	C	91	-48.354	13.749	88.124
ATOM	3034	H	ALA	C	91	-49.780	16.339	87.784
ATOM	3035	N	GLU	C	92	-45.883	15.840	88.519
ATOM	3036	CA	GLU	C	92	-44.804	16.571	87.883
ATOM	3037	C	GLU	C	92	-43.511	15.836	87.760
ATOM	3038	O	GLU	C	92	-43.236	14.855	88.451

ATOM	3039	CB	GLU	C	92	-44.518	17.852	88.611
ATOM	3040	CG	GLU	C	92	-45.630	18.826	88.582
ATOM	3041	CD	GLU	C	92	-45.214	20.130	89.192
ATOM	3042	OE1	GLU	C	92	-44.579	20.084	90.278
ATOM	3043	OE2	GLU	C	92	-45.496	21.183	88.567
ATOM	3044	H	GLU	C	92	-45.688	15.225	89.397
ATOM	3045	N	VAL	C	93	-42.691	16.348	86.866
ATOM	3046	CA	VAL	C	93	-41.381	15.784	86.639
ATOM	3047	C	VAL	C	93	-40.507	17.007	86.421
ATOM	3048	O	VAL	C	93	-40.717	17.796	85.487
ATOM	3049	CB	VAL	C	93	-41.383	14.846	85.423
ATOM	3050	CG1	VAL	C	93	-39.996	14.314	85.194
ATOM	3051	CG2	VAL	C	93	-42.363	13.728	85.648
ATOM	3052	H	VAL	C	93	-43.008	17.214	86.285
ATOM	3053	N	VAL	C	94	-39.594	17.219	87.351
ATOM	3054	CA	VAL	C	94	-38.721	18.373	87.281
ATOM	3055	C	VAL	C	94	-37.370	17.790	86.918
ATOM	3056	O	VAL	C	94	-36.960	16.769	87.490
ATOM	3057	CB	VAL	C	94	-38.698	19.103	88.640
ATOM	3058	CG1	VAL	C	94	-38.049	20.457	88.509
ATOM	3059	CG2	VAL	C	94	-40.110	19.239	89.158
ATOM	3060	H	VAL	C	94	-39.497	16.520	88.181
ATOM	3061	N	PHE	C	95	-36.694	18.401	85.948
ATOM	3062	CA	PHE	C	95	-35.413	17.868	85.496
ATOM	3063	C	PHE	C	95	-34.657	18.850	84.639
ATOM	3064	O	PHE	C	95	-35.240	19.740	84.052
ATOM	3065	CB	PHE	C	95	-35.646	16.561	84.699
ATOM	3066	CG	PHE	C	95	-36.406	16.765	83.419
ATOM	3067	CD1	PHE	C	95	-37.793	16.862	83.423
ATOM	3068	CD2	PHE	C	95	-35.724	16.915	82.199
ATOM	3069	CE1	PHE	C	95	-38.497	17.133	82.220
ATOM	3070	CE2	PHE	C	95	-36.416	17.183	80.998
ATOM	3071	CZ	PHE	C	95	-37.804	17.288	81.008
ATOM	3072	H	PHE	C	95	-37.098	19.303	85.489
ATOM	3073	N	THR	C	96	-33.353	18.653	84.537
ATOM	3074	CA	THR	C	96	-32.514	19.529	83.719
ATOM	3075	C	THR	C	96	-32.282	18.851	82.373
ATOM	3076	O	THR	C	96	-32.015	17.648	82.303
ATOM	3077	CB	THR	C	96	-31.141	19.764	84.360
ATOM	3078	OG1	THR	C	96	-31.299	20.017	85.766
ATOM	3079	CG2	THR	C	96	-30.447	20.947	83.677
ATOM	3080	H	THR	C	96	-32.896	17.821	85.073
ATOM	3081	HG1	THR	C	96	-30.322	20.183	86.218
ATOM	3082	N	ALA	C	97	-32.327	19.627	81.310
ATOM	3083	CA	ALA	C	97	-32.152	19.047	80.007
ATOM	3084	C	ALA	C	97	-31.062	19.742	79.206
ATOM	3085	O	ALA	C	97	-30.699	20.887	79.495
ATOM	3086	CB	ALA	C	97	-33.477	19.091	79.264
ATOM	3087	H	ALA	C	97	-32.495	20.698	81.418
ATOM	3088	N	ASN	C	98	-30.488	19.014	78.257
ATOM	3089	CA	ASN	C	98	-29.466	19.558	77.371
ATOM	3090	C	ASN	C	98	-28.168	20.079	77.990
ATOM	3091	O	ASN	C	98	-27.340	20.657	77.279
ATOM	3092	CB	ASN	C	98	-30.085	20.657	76.496
ATOM	3093	CG	ASN	C	98	-31.100	20.119	75.487
ATOM	3094	OD1	ASN	C	98	-31.140	18.923	75.193
ATOM	3095	ND2	ASN	C	98	-31.896	21.019	74.918
ATOM	3096	H	ASN	C	98	-30.789	17.973	78.136
ATOM	3097	HD2	ASN	C	98	-32.571	20.519	74.223
ATOM	3098	HD2	ASN	C	98	-31.878	22.090	75.118
ATOM	3099	N	ASP	C	99	-27.986	19.865	79.294
ATOM	3100	CA	ASP	C	99	-26.792	20.313	80.042
ATOM	3101	C	ASP	C	99	-25.553	19.437	79.821

ATOM	3102	O	ASP	C	99	-24.429	19.936	79.759
ATOM	3103	CB	ASP	C	99	-27.110	20.312	81.528
ATOM	3104	CG	ASP	C	99	-27.586	18.966	81.993
ATOM	3105	OD1	ASP	C	99	-28.805	18.698	81.892
ATOM	3106	OD2	ASP	C	99	-26.726	18.150	82.394
ATOM	3107	H	ASP	C	99	-28.763	19.331	79.840
ATOM	3108	N	SER	C	100	-25.758	18.123	79.799
ATOM	3109	CA	SER	C	100	-24.671	17.186	79.570
ATOM	3110	C	SER	C	100	-24.701	16.830	78.081
ATOM	3111	O	SER	C	100	-24.195	15.789	77.671
ATOM	3112	CB	SER	C	100	-24.823	15.924	80.451
ATOM	3113	OG	SER	C	100	-25.990	15.144	80.161
ATOM	3114	H	SER	C	100	-26.767	17.740	79.956
ATOM	3115	HG	SER	C	100	-26.022	14.278	80.822
ATOM	3116	N	GLY	C	101	-25.298	17.715	77.281
ATOM	3117	CA	GLY	C	101	-25.407	17.502	75.851
ATOM	3118	C	GLY	C	101	-26.874	17.539	75.463
ATOM	3119	O	GLY	C	101	-27.745	17.308	76.315
ATOM	3120	H	GLY	C	101	-25.717	18.623	77.715
ATOM	3121	N	HIS	C	102	-27.164	17.879	74.207
ATOM	3122	CA	HIS	C	102	-28.547	17.930	73.735
ATOM	3123	C	HIS	C	102	-28.984	16.487	73.491
ATOM	3124	O	HIS	C	102	-28.431	15.791	72.632
ATOM	3125	CB	HIS	C	102	-28.653	18.734	72.430
ATOM	3126	CG	HIS	C	102	-29.937	19.495	72.280
ATOM	3127	ND1	HIS	C	102	-29.971	20.840	71.970
ATOM	3128	CD2	HIS	C	102	-31.228	19.106	72.401
ATOM	3129	CE1	HIS	C	102	-31.226	21.247	71.908
ATOM	3130	NE2	HIS	C	102	-32.011	20.214	72.167
ATOM	3131	H	HIS	C	102	-26.356	18.125	73.519
ATOM	3132	HD1	HIS	C	102	-29.096	21.469	71.804
ATOM	3133	N	ARG	C	103	-29.987	16.053	74.244
ATOM	3134	CA	ARG	C	103	-30.496	14.696	74.140
ATOM	3135	C	ARG	C	103	-31.945	14.709	73.660
ATOM	3136	O	ARG	C	103	-32.490	15.769	73.329
ATOM	3137	CB	ARG	C	103	-30.458	14.069	75.534
ATOM	3138	CG	ARG	C	103	-29.101	14.052	76.151
ATOM	3139	CD	ARG	C	103	-28.287	13.012	75.446
ATOM	3140	NE	ARG	C	103	-26.887	13.391	75.365
ATOM	3141	CZ	ARG	C	103	-26.060	13.426	76.402
ATOM	3142	NH1	ARG	C	103	-26.481	13.103	77.625
ATOM	3143	NH2	ARG	C	103	-24.809	13.793	76.210
ATOM	3144	H	ARG	C	103	-30.442	16.736	74.961
ATOM	3145	HE	ARG	C	103	-26.490	13.666	74.388
ATOM	3146	HH1	ARG	C	103	-25.655	13.196	78.330
ATOM	3147	HH1	ARG	C	103	-27.495	12.795	77.881
ATOM	3148	HH2	ARG	C	103	-24.272	13.766	77.159
ATOM	3149	HH2	ARG	C	103	-24.378	14.080	75.251
ATOM	3150	N	HIS	C	104	-32.553	13.521	73.624
ATOM	3151	CA	HIS	C	104	-33.966	13.329	73.276
ATOM	3152	C	HIS	C	104	-34.583	12.552	74.449
ATOM	3153	O	HIS	C	104	-34.223	11.405	74.730
ATOM	3154	CB	HIS	C	104	-34.127	12.556	71.968
ATOM	3155	CG	HIS	C	104	-34.061	13.415	70.752
ATOM	3156	ND1	HIS	C	104	-34.620	13.046	69.552
ATOM	3157	CD2	HIS	C	104	-33.528	14.646	70.557
ATOM	3158	CE1	HIS	C	104	-34.438	14.010	68.665
ATOM	3159	NE2	HIS	C	104	-33.780	14.991	69.253
ATOM	3160	H	HIS	C	104	-31.963	12.639	73.871
ATOM	3161	HD1	HIS	C	104	-35.133	12.104	69.360
ATOM	3162	N	TYR	C	105	-35.464	13.216	75.174
ATOM	3163	CA	TYR	C	105	-36.069	12.623	76.346
ATOM	3164	C	TYR	C	105	-37.444	12.039	76.096

ATOM	3165	O	TYR C 105	-38.080	12.311	75.075
ATOM	3166	CB	TYR C 105	-36.138	13.667	77.472
ATOM	3167	CG	TYR C 105	-34.785	14.233	77.875
ATOM	3168	CD1	TYR C 105	-34.190	15.276	77.156
ATOM	3169	CD2	TYR C 105	-34.084	13.693	78.959
ATOM	3170	CE1	TYR C 105	-32.941	15.756	77.506
ATOM	3171	CE2	TYR C 105	-32.841	14.162	79.308
ATOM	3172	CZ	TYR C 105	-32.274	15.191	78.580
ATOM	3173	OH	TYR C 105	-31.026	15.638	78.939
ATOM	3174	H	TYR C 105	-35.740	14.230	74.884
ATOM	3175	HH	TYR C 105	-30.671	15.073	79.801
ATOM	3176	N	THR C 106	-37.883	11.224	77.045
ATOM	3177	CA	THR C 106	-39.186	10.610	77.017
ATOM	3178	C	THR C 106	-39.572	10.334	78.437
ATOM	3179	O	THR C 106	-38.948	9.512	79.114
ATOM	3180	CB	THR C 106	-39.171	9.312	76.277
ATOM	3181	OG1	THR C 106	-38.840	9.575	74.907
ATOM	3182	CG2	THR C 106	-40.536	8.633	76.373
ATOM	3183	H	THR C 106	-37.226	11.009	77.888
ATOM	3184	HG1	THR C 106	-38.824	8.637	74.351
ATOM	3185	N	ILE C 107	-40.579	11.067	78.886
ATOM	3186	CA	ILE C 107	-41.124	10.954	80.219
ATOM	3187	C	ILE C 107	-42.386	10.122	80.128
ATOM	3188	O	ILE C 107	-43.361	10.537	79.500
ATOM	3189	CB	ILE C 107	-41.425	12.341	80.772
ATOM	3190	CG1	ILE C 107	-40.135	12.930	81.339
ATOM	3191	CG2	ILE C 107	-42.541	12.303	81.808
ATOM	3192	CD1	ILE C 107	-40.239	14.355	81.689
ATOM	3193	H	ILE C 107	-41.022	11.799	78.210
ATOM	3194	N	ALA C 108	-42.326	8.918	80.697
ATOM	3195	CA	ALA C 108	-43.454	7.973	80.708
ATOM	3196	C	ALA C 108	-44.057	7.970	82.101
ATOM	3197	O	ALA C 108	-43.322	8.035	83.078
ATOM	3198	CB	ALA C 108	-42.976	6.592	80.338
ATOM	3199	H	ALA C 108	-41.395	8.618	81.178
ATOM	3200	N	ALA C 109	-45.379	7.863	82.203
ATOM	3201	CA	ALA C 109	-46.048	7.889	83.509
ATOM	3202	C	ALA C 109	-47.156	6.858	83.658
ATOM	3203	O	ALA C 109	-48.015	6.719	82.777
ATOM	3204	CB	ALA C 109	-46.612	9.268	83.764
ATOM	3205	H	ALA C 109	-45.977	7.753	81.298
ATOM	3206	N	LEU C 110	-47.129	6.128	84.771
ATOM	3207	CA	LEU C 110	-48.139	5.121	85.054
ATOM	3208	C	LEU C 110	-49.068	5.661	86.129
ATOM	3209	O	LEU C 110	-48.637	5.906	87.259
ATOM	3210	CB	LEU C 110	-47.494	3.839	85.537
ATOM	3211	CG	LEU C 110	-48.468	2.671	85.651
ATOM	3212	CD1	LEU C 110	-48.986	2.310	84.276
ATOM	3213	CD2	LEU C 110	-47.774	1.504	86.298
ATOM	3214	H	LEU C 110	-46.325	6.288	85.489
ATOM	3215	N	LEU C 111	-50.341	5.833	85.785
ATOM	3216	CA	LEU C 111	-51.309	6.379	86.721
ATOM	3217	C	LEU C 111	-52.171	5.372	87.456
ATOM	3218	O	LEU C 111	-52.442	4.289	86.948
ATOM	3219	CB	LEU C 111	-52.229	7.350	86.008
ATOM	3220	CG	LEU C 111	-51.589	8.556	85.349
ATOM	3221	CD1	LEU C 111	-52.686	9.452	84.776
ATOM	3222	CD2	LEU C 111	-50.761	9.305	86.367
ATOM	3223	H	LEU C 111	-50.664	5.559	84.781
ATOM	3224	N	SER C 112	-52.590	5.771	88.656
ATOM	3225	CA	SER C 112	-53.478	5.011	89.545
ATOM	3226	C	SER C 112	-53.985	5.997	90.590
ATOM	3227	O	SER C 112	-53.191	6.667	91.247

ATOM	3228	CB	SER C 112	-52.748	3.853	90.216
ATOM	3229	OG	SER C 112	-52.320	2.926	89.241
ATOM	3230	H	SER C 112	-52.247	6.745	89.007
ATOM	3231	HG	SER C 112	-51.799	2.102	89.727
ATOM	3232	N	PRO C 113	-55.308	6.056	90.803
ATOM	3233	CA	PRO C 113	-55.971	6.947	91.758
ATOM	3234	C	PRO C 113	-55.142	7.421	92.964
ATOM	3235	O	PRO C 113	-55.132	8.630	93.278
ATOM	3236	CB	PRO C 113	-57.189	6.139	92.174
ATOM	3237	CG	PRO C 113	-57.570	5.494	90.910
ATOM	3238	CD	PRO C 113	-56.231	4.977	90.409
ATOM	3239	N	TYR C 114	-54.445	6.499	93.629
ATOM	3240	CA	TYR C 114	-53.631	6.882	94.780
ATOM	3241	C	TYR C 114	-52.124	6.679	94.597
ATOM	3242	O	TYR C 114	-51.351	6.936	95.525
ATOM	3243	CB	TYR C 114	-54.108	6.173	96.056
ATOM	3244	CG	TYR C 114	-55.413	6.681	96.612
ATOM	3245	CD1	TYR C 114	-56.582	6.635	95.854
ATOM	3246	CD2	TYR C 114	-55.482	7.217	97.904
ATOM	3247	CE1	TYR C 114	-57.799	7.123	96.365
ATOM	3248	CE2	TYR C 114	-56.696	7.703	98.436
ATOM	3249	CZ	TYR C 114	-57.850	7.657	97.656
ATOM	3250	OH	TYR C 114	-59.045	8.159	98.141
ATOM	3251	H	TYR C 114	-54.481	5.457	93.311
ATOM	3252	HH	TYR C 114	-58.899	8.531	99.155
ATOM	3253	N	SER C 115	-51.704	6.264	93.401
ATOM	3254	CA	SER C 115	-50.284	6.044	93.117
ATOM	3255	C	SER C 115	-49.871	6.343	91.666
ATOM	3256	O	SER C 115	-50.711	6.336	90.765
ATOM	3257	CB	SER C 115	-49.908	4.607	93.484
ATOM	3258	OG	SER C 115	-48.634	4.281	92.970
ATOM	3259	H	SER C 115	-52.437	6.082	92.616
ATOM	3260	HG	SER C 115	-48.385	3.255	93.241
ATOM	3261	N	TYR C 116	-48.597	6.673	91.459
ATOM	3262	CA	TYR C 116	-48.070	6.935	90.118
ATOM	3263	C	TYR C 116	-46.569	6.764	90.009
ATOM	3264	O	TYR C 116	-45.849	6.737	91.012
ATOM	3265	CB	TYR C 116	-48.531	8.281	89.526
ATOM	3266	CG	TYR C 116	-47.812	9.527	89.987
ATOM	3267	CD1	TYR C 116	-46.550	9.855	89.492
ATOM	3268	CD2	TYR C 116	-48.422	10.428	90.874
ATOM	3269	CE1	TYR C 116	-45.911	11.043	89.863
ATOM	3270	CE2	TYR C 116	-47.784	11.630	91.250
ATOM	3271	CZ	TYR C 116	-46.534	11.921	90.733
ATOM	3272	OH	TYR C 116	-45.926	13.097	91.049
ATOM	3273	H	TYR C 116	-47.926	6.750	92.315
ATOM	3274	HH	TYR C 116	-46.555	13.657	91.741
ATOM	3275	N	SER C 117	-46.110	6.603	88.772
ATOM	3276	CA	SER C 117	-44.699	6.397	88.481
ATOM	3277	C	SER C 117	-44.276	7.106	87.213
ATOM	3278	O	SER C 117	-45.009	7.124	86.220
ATOM	3279	CB	SER C 117	-44.415	4.911	88.282
ATOM	3280	OG	SER C 117	-45.145	4.121	89.201
ATOM	3281	H	SER C 117	-46.817	6.629	87.943
ATOM	3282	HG	SER C 117	-44.921	3.068	89.033
ATOM	3283	N	THR C 118	-43.080	7.669	87.239
ATOM	3284	CA	THR C 118	-42.533	8.323	86.068
ATOM	3285	C	THR C 118	-41.177	7.710	85.869
ATOM	3286	O	THR C 118	-40.533	7.289	86.843
ATOM	3287	CB	THR C 118	-42.374	9.827	86.242
ATOM	3288	OG1	THR C 118	-42.007	10.137	87.598
ATOM	3289	CG2	THR C 118	-43.633	10.500	85.865
ATOM	3290	H	THR C 118	-42.495	7.642	88.159

ATOM	3291	HG1	THR	C	118	-41.897	11.216	87.707
ATOM	3292	N	THR	C	119	-40.772	7.602	84.613
ATOM	3293	CA	THR	C	119	-39.477	7.032	84.265
ATOM	3294	C	THR	C	119	-38.972	7.818	83.060
ATOM	3295	O	THR	C	119	-39.768	8.352	82.268
ATOM	3296	CB	THR	C	119	-39.600	5.525	83.920
ATOM	3297	OG1	THR	C	119	-38.325	5.000	83.530
ATOM	3298	CG2	THR	C	119	-40.569	5.320	82.784
ATOM	3299	H	THR	C	119	-41.428	7.950	83.815
ATOM	3300	HG1	THR	C	119	-38.427	3.941	83.291
ATOM	3301	N	ALA	C	120	-37.660	7.931	82.929
ATOM	3302	CA	ALA	C	120	-37.128	8.671	81.809
ATOM	3303	C	ALA	C	120	-36.128	7.887	81.000
ATOM	3304	O	ALA	C	120	-35.318	7.138	81.545
ATOM	3305	CB	ALA	C	120	-36.527	9.988	82.270
ATOM	3306	H	ALA	C	120	-36.991	7.476	83.659
ATOM	3307	N	VAL	C	121	-36.253	8.014	79.687
ATOM	3308	CA	VAL	C	121	-35.363	7.376	78.763
ATOM	3309	C	VAL	C	121	-34.642	8.520	78.071
ATOM	3310	O	VAL	C	121	-35.272	9.380	77.435
ATOM	3311	CB	VAL	C	121	-36.137	6.499	77.757
ATOM	3312	CG1	VAL	C	121	-35.259	6.125	76.578
ATOM	3313	CG2	VAL	C	121	-36.615	5.245	78.459
ATOM	3314	H	VAL	C	121	-37.065	8.626	79.295
ATOM	3315	N	VAL	C	122	-33.334	8.580	78.299
ATOM	3316	CA	VAL	C	122	-32.477	9.605	77.736
ATOM	3317	C	VAL	C	122	-31.874	8.942	76.514
ATOM	3318	O	VAL	C	122	-31.324	7.833	76.593
ATOM	3319	CB	VAL	C	122	-31.377	10.023	78.752
ATOM	3320	CG1	VAL	C	122	-30.408	10.983	78.122
ATOM	3321	CG2	VAL	C	122	-32.008	10.675	79.989
ATOM	3322	H	VAL	C	122	-32.883	7.822	78.940
ATOM	3323	N	SER	C	123	-32.037	9.588	75.368
ATOM	3324	CA	SER	C	123	-31.542	9.038	74.121
ATOM	3325	C	SER	C	123	-30.855	10.088	73.293
ATOM	3326	O	SER	C	123	-31.407	11.155	73.033
ATOM	3327	CB	SER	C	123	-32.704	8.462	73.312
ATOM	3328	OG	SER	C	123	-32.260	7.862	72.102
ATOM	3329	H	SER	C	123	-32.553	10.548	75.364
ATOM	3330	HG	SER	C	123	-33.117	7.465	71.557
ATOM	3331	N	ASN	C	124	-29.646	9.777	72.859
ATOM	3332	CA	ASN	C	124	-28.924	10.701	72.016
ATOM	3333	C	ASN	C	124	-29.713	10.651	70.718
ATOM	3334	O	ASN	C	124	-30.471	9.701	70.492
ATOM	3335	CB	ASN	C	124	-27.501	10.200	71.788
ATOM	3336	CG	ASN	C	124	-26.470	11.292	71.962
ATOM	3337	OD1	ASN	C	124	-26.803	12.476	72.017
ATOM	3338	ND2	ASN	C	124	-25.206	10.897	72.070
ATOM	3339	H	ASN	C	124	-29.195	8.825	73.137
ATOM	3340	HD2	ASN	C	124	-24.563	11.769	72.191
ATOM	3341	HD2	ASN	C	124	-24.865	9.862	72.045
ATOM	3342	N	PRO	C	125	-29.654	11.710	69.898
ATOM	3343	CA	PRO	C	125	-30.414	11.646	68.640
ATOM	3344	C	PRO	C	125	-29.774	10.585	67.741
ATOM	3345	O	PRO	C	125	-28.966	9.775	68.205
ATOM	3346	CB	PRO	C	125	-30.219	13.044	68.055
ATOM	3347	CG	PRO	C	125	-30.018	13.904	69.277
ATOM	3348	CD	PRO	C	125	-29.101	13.056	70.115
ATOM	3349	N	GLN	C	126	-30.148	10.547	66.469
ATOM	3350	CA	GLN	C	126	-29.522	9.579	65.581
ATOM	3351	C	GLN	C	126	-28.250	10.286	65.110
ATOM	3352	O	GLN	C	126	-28.178	10.764	63.974
ATOM	3353	CB	GLN	C	126	-30.439	9.245	64.407

ATOM	3354	CG	GLN	C	126	-30.058	7.980	63.636
ATOM	3355	CD	GLN	C	126	-28.611	7.979	63.179
ATOM	3356	OE1	GLN	C	126	-27.763	7.314	63.773
ATOM	3357	NE2	GLN	C	126	-28.316	8.751	62.141
ATOM	3358	H	GLN	C	126	-30.912	11.230	66.096
ATOM	3359	HE2	GLN	C	126	-27.254	8.662	61.913
ATOM	3360	HE2	GLN	C	126	-29.025	9.377	61.600
ATOM	3361	N	ASN	C	127	-27.286	10.395	66.022
ATOM	3362	CA	ASN	C	127	-26.005	11.063	65.781
ATOM	3363	C	ASN	C	127	-25.132	10.732	67.004
ATOM	3364	OCT	ASN	C	127	-24.821	9.533	67.188
ATOM	3365	CB	ASN	C	127	-26.220	12.594	65.668
ATOM	3366	CG	ASN	C	127	-25.310	13.264	64.620
ATOM	3367	OD1	ASN	C	127	-24.119	13.509	64.855
ATOM	3368	ND2	ASN	C	127	-25.897	13.612	63.477
ATOM	3369	OCT	ASN	C	127	-24.811	11.650	67.794
ATOM	3370	H	ASN	C	127	-27.460	9.962	67.007
ATOM	3371	HD2	ASN	C	127	-25.162	14.073	62.817
ATOM	3372	HD2	ASN	C	127	-26.949	13.459	63.237
TER								
ATOM	3373	N	SER	D	8	-48.525	5.045	114.299
ATOM	3374	CA	SER	D	8	-49.926	5.047	114.794
ATOM	3375	C	SER	D	8	-50.304	6.454	115.249
ATOM	3376	O	SER	D	8	-51.029	7.168	114.551
ATOM	3377	CB	SER	D	8	-50.072	4.067	115.966
ATOM	3378	OG	SER	D	8	-49.195	4.420	117.028
ATOM	3379	H1	SER	D	8	-48.256	4.041	113.973
ATOM	3380	H2	SER	D	8	-47.856	5.359	115.100
ATOM	3381	H3	SER	D	8	-48.436	5.735	113.460
ATOM	3382	HG	SER	D	8	-49.314	3.712	117.848
ATOM	3383	N	LYS	D	9	-49.749	6.869	116.384
ATOM	3384	CA	LYS	D	9	-50.028	8.182	116.947
ATOM	3385	C	LYS	D	9	-49.307	9.287	116.146
ATOM	3386	O	LYS	D	9	-48.733	10.211	116.718
ATOM	3387	CB	LYS	D	9	-49.629	8.195	118.436
ATOM	3388	CG	LYS	D	9	-50.260	9.310	119.304
ATOM	3389	CD	LYS	D	9	-51.793	9.389	119.177
ATOM	3390	CE	LYS	D	9	-52.218	10.343	118.053
ATOM	3391	NZ	LYS	D	9	-53.684	10.373	117.775
ATOM	3392	H	LYS	D	9	-49.062	6.204	116.909
ATOM	3393	HZ1	LYS	D	9	-53.886	11.074	116.966
ATOM	3394	HZ2	LYS	D	9	-54.217	10.688	118.672
ATOM	3395	HZ3	LYS	D	9	-54.019	9.377	117.485
ATOM	3396	N	CYS	D	10	-49.390	9.199	114.816
ATOM	3397	CA	CYS	D	10	-48.761	10.151	113.905
ATOM	3398	C	CYS	D	10	-49.609	10.239	112.632
ATOM	3399	O	CYS	D	10	-49.846	9.230	111.947
ATOM	3400	CB	CYS	D	10	-47.340	9.698	113.575
ATOM	3401	SG	CYS	D	10	-46.474	10.815	112.482
ATOM	3402	H	CYS	D	10	-49.957	8.373	114.388
ATOM	3403	N	PRO	D	11	-50.122	11.443	112.334
ATOM	3404	CA	PRO	D	11	-50.968	11.759	111.181
ATOM	3405	C	PRO	D	11	-50.340	11.689	109.807
ATOM	3406	O	PRO	D	11	-50.996	11.285	108.870
ATOM	3407	CB	PRO	D	11	-51.430	13.192	111.465
ATOM	3408	CG	PRO	D	11	-51.179	13.388	112.905
ATOM	3409	CD	PRO	D	11	-49.914	12.644	113.153
ATOM	3410	N	LEU	D	12	-49.092	12.119	109.686
ATOM	3411	CA	LEU	D	12	-48.406	12.149	108.404
ATOM	3412	C	LEU	D	12	-47.010	11.581	108.564
ATOM	3413	O	LEU	D	12	-46.233	12.063	109.392
ATOM	3414	CB	LEU	D	12	-48.341	13.595	107.930
ATOM	3415	CG	LEU	D	12	-47.580	14.152	106.724

ATOM	3416	CD1	LEU	D	12	-47.829	13.351	105.428
ATOM	3417	CD2	LEU	D	12	-47.998	15.619	106.564
ATOM	3418	H	LEU	D	12	-48.565	12.462	110.576
ATOM	3419	N	MET	D	13	-46.732	10.509	107.820
ATOM	3420	CA	MET	D	13	-45.436	9.836	107.841
ATOM	3421	C	MET	D	13	-44.954	9.698	106.393
ATOM	3422	O	MET	D	13	-45.758	9.688	105.455
ATOM	3423	CB	MET	D	13	-45.574	8.422	108.436
ATOM	3424	CG	MET	D	13	-46.335	8.335	109.748
ATOM	3425	SD	MET	D	13	-47.575	6.990	109.828
ATOM	3426	CE	MET	D	13	-47.384	6.431	111.523
ATOM	3427	H	MET	D	13	-47.511	10.116	107.167
ATOM	3428	N	VAL	D	14	-43.650	9.581	106.200
ATOM	3429	CA	VAL	D	14	-43.116	9.392	104.864
ATOM	3430	C	VAL	D	14	-42.086	8.294	104.931
ATOM	3431	O	VAL	D	14	-41.155	8.371	105.711
ATOM	3432	CB	VAL	D	14	-42.401	10.626	104.328
ATOM	3433	CG1	VAL	D	14	-41.860	10.319	102.928
ATOM	3434	CG2	VAL	D	14	-43.321	11.841	104.329
ATOM	3435	H	VAL	D	14	-42.971	9.631	107.051
ATOM	3436	N	ALA	D	15	-42.221	7.302	104.070
ATOM	3437	CA	ALA	D	15	-41.292	6.192	104.025
ATOM	3438	C	ALA	D	15	-40.681	6.101	102.635
ATOM	3439	O	ALA	D	15	-41.365	5.753	101.681
ATOM	3440	CB	ALA	D	15	-42.028	4.904	104.349
ATOM	3449	N	VAL	D	16	-39.393	6.403	102.527
ATOM	3450	CA	VAL	D	16	-38.667	6.343	101.261
ATOM	3451	C	VAL	D	16	-37.793	5.070	101.188
ATOM	3452	O	VAL	D	16	-37.202	4.662	102.186
ATOM	3453	CB	VAL	D	16	-37.736	7.570	101.108
ATOM	3454	CG1	VAL	D	16	-37.319	7.728	99.659
ATOM	3455	CG2	VAL	D	16	-38.400	8.840	101.640
ATOM	3456	H	VAL	D	16	-38.853	6.710	103.422
ATOM	3457	N	LEU	D	17	-37.696	4.462	100.005
ATOM	3458	CA	LEU	D	17	-36.881	3.253	99.783
ATOM	3459	C	LEU	D	17	-35.904	3.470	98.627
ATOM	3460	O	LEU	D	17	-36.142	4.281	97.728
ATOM	3461	CB	LEU	D	17	-37.761	2.059	99.450
ATOM	3462	CG	LEU	D	17	-38.863	1.740	100.457
ATOM	3463	CD1	LEU	D	17	-40.065	1.275	99.682
ATOM	3464	CD2	LEU	D	17	-38.431	0.707	101.459
ATOM	3465	H	LEU	D	17	-38.245	4.878	99.161
ATOM	3466	N	ASP	D	18	-34.829	2.700	98.625
ATOM	3467	CA	ASP	D	18	-33.801	2.802	97.607
ATOM	3468	C	ASP	D	18	-33.762	1.496	96.792
ATOM	3469	O	ASP	D	18	-33.281	0.485	97.285
ATOM	3470	CB	ASP	D	18	-32.472	3.067	98.335
ATOM	3471	CG	ASP	D	18	-31.292	3.232	97.396
ATOM	3472	OD1	ASP	D	18	-31.427	2.970	96.169
ATOM	3473	OD2	ASP	D	18	-30.216	3.631	97.897
ATOM	3474	H	ASP	D	18	-34.711	1.962	99.418
ATOM	3475	N	ALA	D	19	-34.239	1.530	95.549
ATOM	3476	CA	ALA	D	19	-34.280	0.339	94.673
ATOM	3477	C	ALA	D	19	-32.936	-0.209	94.209
ATOM	3478	O	ALA	D	19	-32.838	-1.388	93.835
ATOM	3479	CB	ALA	D	19	-35.151	0.579	93.470
ATOM	3480	H	ALA	D	19	-34.613	2.476	95.160
ATOM	3481	N	VAL	D	20	-31.924	0.652	94.157
ATOM	3482	CA	VAL	D	20	-30.590	0.212	93.769
ATOM	3483	C	VAL	D	20	-29.993	-0.650	94.887
ATOM	3484	O	VAL	D	20	-29.714	-1.834	94.682
ATOM	3485	CB	VAL	D	20	-29.660	1.419	93.462
ATOM	3486	CG1	VAL	D	20	-28.195	0.992	93.442

ATOM	3487	CG2	VAL	D	20	-30.032	2.039	92.111
ATOM	3488	H	VAL	D	20	-32.095	1.699	94.408
ATOM	3489	N	ARG	D	21	-29.924	-0.081	96.092
ATOM	3490	CA	ARG	D	21	-29.344	-0.747	97.266
ATOM	3491	C	ARG	D	21	-30.133	-1.859	97.939
ATOM	3492	O	ARG	D	21	-29.545	-2.669	98.635
ATOM	3493	CB	ARG	D	21	-28.984	0.288	98.337
ATOM	3494	CG	ARG	D	21	-27.655	0.000	98.997
ATOM	3495	CD	ARG	D	21	-27.332	0.919	100.169
ATOM	3496	NE	ARG	D	21	-27.544	2.330	99.859
ATOM	3497	CZ	ARG	D	21	-26.953	3.343	100.490
ATOM	3498	NH1	ARG	D	21	-26.081	3.116	101.468
ATOM	3499	NH2	ARG	D	21	-27.316	4.594	100.209
ATOM	3500	H	ARG	D	21	-30.317	0.928	96.210
ATOM	3501	HE	ARG	D	21	-28.237	2.572	99.053
ATOM	3502	HH1	ARG	D	21	-25.712	4.066	101.853
ATOM	3503	HH1	ARG	D	21	-25.782	2.132	101.828
ATOM	3504	HH2	ARG	D	21	-26.731	5.287	100.815
ATOM	3505	HH2	ARG	D	21	-28.078	4.881	99.485
ATOM	3506	N	GLY	D	22	-31.454	-1.863	97.793
ATOM	3507	CA	GLY	D	22	-32.280	-2.881	98.421
ATOM	3508	C	GLY	D	22	-32.519	-2.670	99.914
ATOM	3509	O	GLY	D	22	-32.885	-3.608	100.642
ATOM	3510	H	GLY	D	22	-31.927	-1.087	97.191
ATOM	3511	N	SER	D	23	-32.303	-1.434	100.355
ATOM	3512	CA	SER	D	23	-32.444	-1.010	101.749
ATOM	3513	C	SER	D	23	-33.163	0.314	101.680
ATOM	3514	O	SER	D	23	-33.095	0.978	100.654
ATOM	3515	CB	SER	D	23	-31.064	-0.717	102.291
ATOM	3516	OG	SER	D	23	-30.450	0.202	101.404
ATOM	3517	H	SER	D	23	-32.000	-0.682	99.626
ATOM	3518	HG	SER	D	23	-29.448	0.439	101.762
ATOM	3519	N	PRO	D	24	-33.766	0.772	102.791
ATOM	3520	CA	PRO	D	24	-34.487	2.052	102.810
ATOM	3521	C	PRO	D	24	-33.560	3.209	102.518
ATOM	3522	O	PRO	D	24	-32.370	3.143	102.812
ATOM	3523	CB	PRO	D	24	-35.006	2.123	104.234
ATOM	3524	CG	PRO	D	24	-33.936	1.432	104.983
ATOM	3525	CD	PRO	D	24	-33.714	0.204	104.144
ATOM	3526	N	ALA	D	25	-34.102	4.258	101.915
ATOM	3527	CA	ALA	D	25	-33.296	5.416	101.582
ATOM	3528	C	ALA	D	25	-33.102	6.241	102.849
ATOM	3529	O	ALA	D	25	-34.015	6.924	103.318
ATOM	3530	CB	ALA	D	25	-33.965	6.217	100.501
ATOM	3531	H	ALA	D	25	-35.163	4.249	101.668
ATOM	3532	N	VAL	D	26	-31.925	6.105	103.441
ATOM	3533	CA	VAL	D	26	-31.598	6.812	104.667
ATOM	3534	C	VAL	D	26	-31.167	8.231	104.345
ATOM	3535	O	VAL	D	26	-30.716	8.507	103.235
ATOM	3536	CB	VAL	D	26	-30.498	6.054	105.477
ATOM	3537	CG1	VAL	D	26	-30.274	6.694	106.840
ATOM	3538	CG2	VAL	D	26	-30.918	4.635	105.679
ATOM	3539	H	VAL	D	26	-31.182	5.444	102.996
ATOM	3540	N	ASP	D	27	-31.370	9.126	105.316
ATOM	3541	CA	ASP	D	27	-31.039	10.544	105.206
ATOM	3542	C	ASP	D	27	-31.408	11.267	103.884
ATOM	3543	O	ASP	D	27	-30.567	11.893	103.230
ATOM	3544	CB	ASP	D	27	-29.577	10.779	105.608
ATOM	3545	CG	ASP	D	27	-29.423	11.127	107.085
ATOM	3546	OD1	ASP	D	27	-30.071	10.487	107.960
ATOM	3547	OD2	ASP	D	27	-28.645	12.063	107.371
ATOM	3548	H	ASP	D	27	-31.812	8.775	106.249
ATOM	3549	N	VAL	D	28	-32.683	11.183	103.521

ATOM	3550	CA	VAL	D	28	-33.231	11.836	102.340
ATOM	3551	C	VAL	D	28	-34.036	12.992	102.948
ATOM	3552	O	VAL	D	28	-35.004	12.762	103.656
ATOM	3553	CB	VAL	D	28	-34.153	10.840	101.549
ATOM	3554	CG1	VAL	D	28	-35.057	11.559	100.574
ATOM	3555	CG2	VAL	D	28	-33.305	9.820	100.798
ATOM	3556	H	VAL	D	28	-33.356	10.590	104.141
ATOM	3557	N	ALA	D	29	-33.598	14.225	102.732
ATOM	3558	CA	ALA	D	29	-34.274	15.401	103.300
ATOM	3559	C	ALA	D	29	-35.657	15.760	102.773
ATOM	3560	O	ALA	D	29	-35.811	16.162	101.607
ATOM	3561	CB	ALA	D	29	-33.375	16.619	103.202
ATOM	3562	H	ALA	D	29	-32.713	14.371	102.113
ATOM	3563	N	VAL	D	30	-36.654	15.656	103.647
ATOM	3564	CA	VAL	D	30	-38.017	15.999	103.275
ATOM	3565	C	VAL	D	30	-38.380	17.409	103.732
ATOM	3566	O	VAL	D	30	-37.873	17.905	104.746
ATOM	3567	CB	VAL	D	30	-39.018	14.992	103.807
ATOM	3568	CG1	VAL	D	30	-40.417	15.346	103.335
ATOM	3569	CG2	VAL	D	30	-38.648	13.626	103.315
ATOM	3570	H	VAL	D	30	-36.446	15.304	104.657
ATOM	3571	N	LYS	D	31	-39.193	18.086	102.933
ATOM	3572	CA	LYS	D	31	-39.615	19.448	103.244
ATOM	3573	C	LYS	D	31	-41.105	19.612	102.947
ATOM	3574	O	LYS	D	31	-41.508	19.756	101.790
ATOM	3575	CB	LYS	D	31	-38.783	20.456	102.443
ATOM	3576	CG	LYS	D	31	-39.171	21.926	102.681
ATOM	3577	CD	LYS	D	31	-39.063	22.367	104.149
ATOM	3578	CE	LYS	D	31	-40.026	23.516	104.486
ATOM	3579	NZ	LYS	D	31	-39.649	24.862	103.956
ATOM	3580	H	LYS	D	31	-39.556	17.614	102.020
ATOM	3581	HZ1	LYS	D	31	-40.400	25.593	104.255
ATOM	3582	HZ2	LYS	D	31	-39.595	24.821	102.868
ATOM	3583	HZ3	LYS	D	31	-38.679	25.151	104.359
ATOM	3584	N	VAL	D	32	-41.915	19.582	104.003
ATOM	3585	CA	VAL	D	32	-43.359	19.709	103.865
ATOM	3586	C	VAL	D	32	-43.825	21.167	103.972
ATOM	3587	O	VAL	D	32	-43.488	21.891	104.916
ATOM	3588	CB	VAL	D	32	-44.118	18.804	104.887
ATOM	3589	CG1	VAL	D	32	-45.574	18.646	104.492
ATOM	3590	CG2	VAL	D	32	-43.485	17.454	104.951
ATOM	3591	H	VAL	D	32	-41.485	19.459	104.997
ATOM	3592	N	PHE	D	33	-44.586	21.587	102.974
ATOM	3593	CA	PHE	D	33	-45.114	22.931	102.899
ATOM	3594	C	PHE	D	33	-46.601	22.836	103.036
ATOM	3595	O	PHE	D	33	-47.173	21.767	102.829
ATOM	3596	CB	PHE	D	33	-44.820	23.535	101.537
ATOM	3597	CG	PHE	D	33	-43.367	23.696	101.254
ATOM	3598	CD1	PHE	D	33	-42.705	24.866	101.615
ATOM	3599	CD2	PHE	D	33	-42.660	22.686	100.600
ATOM	3600	CE1	PHE	D	33	-41.365	25.028	101.332
ATOM	3601	CE2	PHE	D	33	-41.313	22.844	100.315
ATOM	3602	CZ	PHE	D	33	-40.665	24.023	100.680
ATOM	3603	H	PHE	D	33	-44.825	20.888	102.172
ATOM	3604	N	LYS	D	34	-47.225	23.949	103.407
ATOM	3605	CA	LYS	D	34	-48.677	24.007	103.527
ATOM	3606	C	LYS	D	34	-49.093	25.272	102.800
ATOM	3607	O	LYS	D	34	-48.521	26.339	103.021
ATOM	3608	CB	LYS	D	34	-49.133	24.035	104.991
ATOM	3609	CG	LYS	D	34	-50.664	23.960	105.178
ATOM	3610	CD	LYS	D	34	-51.022	23.911	106.684
ATOM	3611	CE	LYS	D	34	-52.524	23.852	106.955
ATOM	3612	NZ	LYS	D	34	-53.083	22.476	106.805

ATOM	3613	H	LYS	D	34	-46.638	24.840	103.628
ATOM	3614	HZ1	LYS	D	34	-54.153	22.494	107.010
ATOM	3615	HZ2	LYS	D	34	-52.590	21.806	107.509
ATOM	3616	HZ3	LYS	D	34	-52.913	22.124	105.788
ATOM	3617	N	LYS	D	35	-50.017	25.127	101.865
ATOM	3618	CA	LYS	D	35	-50.485	26.267	101.103
ATOM	3619	C	LYS	D	35	-51.299	27.149	102.033
ATOM	3620	O	LYS	D	35	-52.240	26.673	102.661
ATOM	3621	CB	LYS	D	35	-51.371	25.799	99.950
ATOM	3622	CG	LYS	D	35	-51.448	26.772	98.785
ATOM	3623	CD	LYS	D	35	-52.533	26.349	97.794
ATOM	3624	CE	LYS	D	35	-52.415	27.041	96.428
ATOM	3625	NZ	LYS	D	35	-51.356	26.459	95.529
ATOM	3626	H	LYS	D	35	-50.433	24.140	101.666
ATOM	3627	HZ1	LYS	D	35	-51.340	27.006	94.586
ATOM	3628	HZ2	LYS	D	35	-51.579	25.410	95.336
ATOM	3629	HZ3	LYS	D	35	-50.383	26.541	96.013
ATOM	3630	N	THR	D	36	-50.898	28.406	102.171
ATOM	3631	CA	THR	D	36	-51.621	29.361	103.009
ATOM	3632	C	THR	D	36	-52.898	29.799	102.310
ATOM	3633	O	THR	D	36	-53.189	29.363	101.198
ATOM	3634	CB	THR	D	36	-50.786	30.633	103.278
ATOM	3635	OG1	THR	D	36	-49.920	30.897	102.161
ATOM	3636	CG2	THR	D	36	-49.981	30.485	104.551
ATOM	3637	H	THR	D	36	-50.003	28.736	101.644
ATOM	3638	HG1	THR	D	36	-49.336	31.795	102.359
ATOM	3639	N	ALA	D	37	-53.624	30.719	102.931
ATOM	3640	CA	ALA	D	37	-54.865	31.212	102.350
ATOM	3641	C	ALA	D	37	-54.621	32.164	101.177
ATOM	3642	O	ALA	D	37	-55.469	32.293	100.303
ATOM	3643	CB	ALA	D	37	-55.713	31.885	103.409
ATOM	3644	H	ALA	D	37	-53.287	31.111	103.891
ATOM	3645	N	ASP	D	38	-53.473	32.840	101.167
ATOM	3646	CA	ASP	D	38	-53.157	33.764	100.081
ATOM	3647	C	ASP	D	38	-52.860	33.000	98.785
ATOM	3648	O	ASP	D	38	-52.856	33.596	97.707
ATOM	3649	CB	ASP	D	38	-51.961	34.663	100.439
ATOM	3650	CG	ASP	D	38	-50.612	34.020	100.104
ATOM	3651	OD1	ASP	D	38	-50.112	34.188	98.956
ATOM	3652	OD2	ASP	D	38	-50.057	33.343	100.994
ATOM	3653	H	ASP	D	38	-52.761	32.703	101.981
ATOM	3654	N	GLY	D	39	-52.567	31.703	98.909
ATOM	3655	CA	GLY	D	39	-52.263	30.887	97.748
ATOM	3656	C	GLY	D	39	-50.826	30.390	97.695
ATOM	3657	O	GLY	D	39	-50.514	29.493	96.903
ATOM	3658	H	GLY	D	39	-52.557	31.249	99.900
ATOM	3659	N	SER	D	40	-49.953	30.957	98.531
ATOM	3660	CA	SER	D	40	-48.540	30.560	98.553
ATOM	3661	C	SER	D	40	-48.217	29.347	99.439
ATOM	3662	O	SER	D	40	-49.096	28.816	100.125
ATOM	3663	CB	SER	D	40	-47.654	31.747	98.940
ATOM	3664	OG	SER	D	40	-47.842	32.109	100.292
ATOM	3665	H	SER	D	40	-50.299	31.734	99.214
ATOM	3666	HG	SER	D	40	-47.199	32.955	100.535
ATOM	3667	N	TRP	D	41	-46.943	28.959	99.484
ATOM	3668	CA	TRP	D	41	-46.543	27.802	100.276
ATOM	3669	C	TRP	D	41	-45.736	28.026	101.560
ATOM	3670	O	TRP	D	41	-44.518	27.877	101.584
ATOM	3671	CB	TRP	D	41	-45.844	26.805	99.375
ATOM	3672	CG	TRP	D	41	-46.741	26.361	98.308
ATOM	3673	CD1	TRP	D	41	-46.851	26.893	97.058
ATOM	3674	CD2	TRP	D	41	-47.697	25.298	98.387
ATOM	3675	NE1	TRP	D	41	-47.820	26.224	96.351

ATOM	3676	CE2	TRP	D	41	-48.356	25.240	97.142
ATOM	3677	CE3	TRP	D	41	-48.058	24.389	99.390
ATOM	3678	CZ2	TRP	D	41	-49.358	24.307	96.868
ATOM	3679	CZ3	TRP	D	41	-49.053	23.461	99.119
ATOM	3680	CH2	TRP	D	41	-49.692	23.429	97.864
ATOM	3681	H	TRP	D	41	-46.192	29.513	98.921
ATOM	3682	HE1	TRP	D	41	-48.116	26.442	95.325
ATOM	3683	N	GLU	D	42	-46.447	28.262	102.651
ATOM	3684	CA	GLU	D	42	-45.824	28.498	103.934
ATOM	3685	C	GLU	D	42	-45.267	27.191	104.511
ATOM	3686	O	GLU	D	42	-45.946	26.165	104.509
ATOM	3687	CB	GLU	D	42	-46.861	29.118	104.857
ATOM	3688	CG	GLU	D	42	-46.461	29.201	106.304
ATOM	3689	CD	GLU	D	42	-47.596	28.818	107.250
ATOM	3690	OE1	GLU	D	42	-48.324	27.828	106.983
ATOM	3691	OE2	GLU	D	42	-47.754	29.499	108.282
ATOM	3692	H	GLU	D	42	-47.535	28.279	102.579
ATOM	3693	N	PRO	D	43	-43.993	27.204	104.951
ATOM	3694	CA	PRO	D	43	-43.257	26.073	105.539
ATOM	3695	C	PRO	D	43	-44.124	25.301	106.529
ATOM	3696	O	PRO	D	43	-44.746	25.922	107.393
ATOM	3697	CB	PRO	D	43	-42.115	26.767	106.276
ATOM	3698	CG	PRO	D	43	-41.816	27.939	105.406
ATOM	3699	CD	PRO	D	43	-43.176	28.433	104.969
ATOM	3700	N	PHE	D	44	-44.133	23.968	106.449
ATOM	3701	CA	PHE	D	44	-44.966	23.162	107.353
ATOM	3702	C	PHE	D	44	-44.240	22.213	108.323
ATOM	3703	O	PHE	D	44	-44.466	22.257	109.526
ATOM	3704	CB	PHE	D	44	-46.008	22.386	106.552
ATOM	3705	CG	PHE	D	44	-47.090	21.780	107.396
ATOM	3706	CD1	PHE	D	44	-47.985	22.589	108.078
ATOM	3707	CD2	PHE	D	44	-47.218	20.397	107.506
ATOM	3708	CE1	PHE	D	44	-48.990	22.044	108.856
ATOM	3709	CE2	PHE	D	44	-48.227	19.836	108.288
ATOM	3710	CZ	PHE	D	44	-49.114	20.667	108.963
ATOM	3711	H	PHE	D	44	-43.516	23.470	105.701
ATOM	3712	N	ALA	D	45	-43.461	21.291	107.779
ATOM	3713	CA	ALA	D	45	-42.680	20.331	108.558
ATOM	3714	C	ALA	D	45	-41.407	20.195	107.736
ATOM	3715	O	ALA	D	45	-41.354	20.662	106.590
ATOM	3716	CB	ALA	D	45	-43.389	19.004	108.638
ATOM	3717	H	ALA	D	45	-43.397	21.245	106.691
ATOM	3718	N	SER	D	46	-40.393	19.541	108.277
ATOM	3719	CA	SER	D	46	-39.140	19.428	107.544
ATOM	3720	C	SER	D	46	-38.182	18.566	108.306
ATOM	3721	O	SER	D	46	-37.766	18.942	109.399
ATOM	3722	CB	SER	D	46	-38.538	20.840	107.359
ATOM	3723	OG	SER	D	46	-37.142	20.825	107.098
ATOM	3724	H	SER	D	46	-40.495	19.089	109.263
ATOM	3725	HG	SER	D	46	-36.784	21.847	106.978
ATOM	3726	N	GLY	D	47	-37.800	17.442	107.706
ATOM	3727	CA	GLY	D	47	-36.872	16.511	108.326
ATOM	3728	C	GLY	D	47	-36.114	15.769	107.242
ATOM	3729	O	GLY	D	47	-36.054	16.232	106.117
ATOM	3730	H	GLY	D	47	-38.195	17.212	106.716
ATOM	3731	N	LYS	D	48	-35.491	14.652	107.579
ATOM	3732	CA	LYS	D	48	-34.749	13.840	106.622
ATOM	3733	C	LYS	D	48	-34.951	12.425	107.128
ATOM	3734	O	LYS	D	48	-34.997	12.211	108.335
ATOM	3735	CB	LYS	D	48	-33.261	14.195	106.634
ATOM	3736	CG	LYS	D	48	-32.529	13.729	107.877
ATOM	3737	CD	LYS	D	48	-31.084	14.214	107.935
ATOM	3738	CE	LYS	D	48	-30.969	15.716	107.705

ATOM	3739	NZ	LYS	D	48	-30.674	16.071	106.255
ATOM	3740	H	LYS	D	48	-35.534	14.325	108.618
ATOM	3741	HZ1	LYS	D	48	-30.603	17.154	106.153
ATOM	3742	HZ2	LYS	D	48	-31.476	15.697	105.619
ATOM	3743	HZ3	LYS	D	48	-29.730	15.615	105.955
ATOM	3744	N	THR	D	49	-35.066	11.462	106.227
ATOM	3745	CA	THR	D	49	-35.313	10.098	106.656
ATOM	3746	C	THR	D	49	-34.384	9.525	107.743
ATOM	3747	O	THR	D	49	-33.155	9.658	107.706
ATOM	3748	CB	THR	D	49	-35.395	9.147	105.452
ATOM	3749	OG1	THR	D	49	-34.124	9.083	104.811
ATOM	3750	CG2	THR	D	49	-36.427	9.647	104.447
ATOM	3751	H	THR	D	49	-34.976	11.694	105.166
ATOM	3752	HG1	THR	D	49	-34.181	8.409	103.957
ATOM	3753	N	ALA	D	50	-35.006	8.937	108.754
ATOM	3754	CA	ALA	D	50	-34.277	8.314	109.838
ATOM	3755	C	ALA	D	50	-33.825	7.008	109.214
ATOM	3756	O	ALA	D	50	-34.330	6.629	108.171
ATOM	3757	CB	ALA	D	50	-35.209	8.056	111.032
ATOM	3758	H	ALA	D	50	-36.095	8.922	108.769
ATOM	3759	N	GLU	D	51	-32.866	6.336	109.839
ATOM	3760	CA	GLU	D	51	-32.333	5.075	109.329
ATOM	3761	C	GLU	D	51	-33.374	4.191	108.656
ATOM	3762	O	GLU	D	51	-33.197	3.819	107.514
ATOM	3763	CB	GLU	D	51	-31.597	4.299	110.438
ATOM	3764	CG	GLU	D	51	-30.483	3.379	109.911
ATOM	3765	CD	GLU	D	51	-29.096	3.734	110.457
ATOM	3766	OE1	GLU	D	51	-28.968	3.921	111.689
ATOM	3767	OE2	GLU	D	51	-28.134	3.808	109.659
ATOM	3768	H	GLU	D	51	-32.461	6.740	110.767
ATOM	3769	N	SER	D	52	-34.497	3.949	109.326
ATOM	3770	CA	SER	D	52	-35.575	3.101	108.787
ATOM	3771	C	SER	D	52	-36.145	3.573	107.454
ATOM	3772	O	SER	D	52	-36.956	2.891	106.833
ATOM	3773	CB	SER	D	52	-36.729	3.018	109.794
ATOM	3774	OG	SER	D	52	-37.224	4.314	110.126
ATOM	3775	H	SER	D	52	-34.625	4.395	110.312
ATOM	3776	HG	SER	D	52	-38.041	4.219	110.841
ATOM	3777	N	GLY	D	53	-35.734	4.749	107.025
ATOM	3778	CA	GLY	D	53	-36.244	5.293	105.800
ATOM	3779	C	GLY	D	53	-37.554	6.008	106.060
ATOM	3780	O	GLY	D	53	-38.165	6.450	105.106
ATOM	3781	H	GLY	D	53	-35.002	5.312	107.604
ATOM	3782	N	GLU	D	54	-37.993	6.147	107.314
ATOM	3783	CA	GLU	D	54	-39.265	6.841	107.571
ATOM	3784	C	GLU	D	54	-39.196	8.101	108.404
ATOM	3785	O	GLU	D	54	-38.119	8.491	108.854
ATOM	3786	CB	GLU	D	54	-40.291	5.912	108.175
ATOM	3787	CG	GLU	D	54	-39.968	5.448	109.571
ATOM	3788	CD	GLU	D	54	-40.808	4.242	109.936
ATOM	3789	OE1	GLU	D	54	-42.059	4.346	109.866
ATOM	3790	OE2	GLU	D	54	-40.219	3.179	110.237
ATOM	3791	H	GLU	D	54	-37.410	5.747	108.144
ATOM	3792	N	LEU	D	55	-40.355	8.730	108.616
ATOM	3793	CA	LEU	D	55	-40.458	9.975	109.386
ATOM	3794	C	LEU	D	55	-41.804	10.114	110.115
ATOM	3795	O	LEU	D	55	-42.854	10.201	109.487
ATOM	3796	CB	LEU	D	55	-40.231	11.167	108.463
ATOM	3797	CG	LEU	D	55	-38.772	11.561	108.237
ATOM	3798	CD1	LEU	D	55	-38.668	12.489	107.058
ATOM	3799	CD2	LEU	D	55	-38.206	12.211	109.488
ATOM	3800	H	LEU	D	55	-41.264	8.300	108.196
ATOM	3801	N	HIS	D	56	-41.747	10.172	111.446

ATOM	3802	CA	HIS	D	56	-42.940	10.259	112.307
ATOM	3803	C	HIS	D	56	-43.301	11.666	112.821
ATOM	3804	O	HIS	D	56	-44.257	12.287	112.350
ATOM	3805	CB	HIS	D	56	-42.790	9.314	113.517
ATOM	3806	CG	HIS	D	56	-42.169	7.994	113.173
ATOM	3807	ND1	HIS	D	56	-40.853	7.696	113.452
ATOM	3808	CD2	HIS	D	56	-42.671	6.915	112.528
ATOM	3809	CE1	HIS	D	56	-40.567	6.491	112.989
ATOM	3810	NE2	HIS	D	56	-41.653	5.997	112.428
ATOM	3811	H	HIS	D	56	-40.766	10.154	111.922
ATOM	3812	HD1	HIS	D	56	-40.155	8.352	113.972
ATOM	3813	N	GLY	D	57	-42.536	12.158	113.791
ATOM	3814	CA	GLY	D	57	-42.803	13.464	114.365
ATOM	3815	C	GLY	D	57	-42.923	14.694	113.469
ATOM	3816	O	GLY	D	57	-42.765	15.806	113.959
ATOM	3817	H	GLY	D	57	-41.696	11.571	114.163
ATOM	3818	N	LEU	D	58	-43.198	14.519	112.180
ATOM	3819	CA	LEU	D	58	-43.338	15.643	111.273
ATOM	3820	C	LEU	D	58	-44.344	16.654	111.818
ATOM	3821	O	LEU	D	58	-44.083	17.857	111.817
ATOM	3822	CB	LEU	D	58	-43.726	15.161	109.868
ATOM	3823	CG	LEU	D	58	-42.608	14.593	108.991
ATOM	3824	CD1	LEU	D	58	-43.156	14.292	107.615
ATOM	3825	CD2	LEU	D	58	-41.477	15.597	108.874
ATOM	3826	H	LEU	D	58	-43.320	13.506	111.796
ATOM	3827	N	THR	D	59	-45.466	16.175	112.341
ATOM	3828	CA	THR	D	59	-46.471	17.081	112.902
ATOM	3829	C	THR	D	59	-47.320	16.388	113.972
ATOM	3830	O	THR	D	59	-47.251	15.160	114.139
ATOM	3831	CB	THR	D	59	-47.375	17.684	111.789
ATOM	3832	OG1	THR	D	59	-48.310	18.607	112.375
ATOM	3833	CG2	THR	D	59	-48.123	16.580	111.039
ATOM	3834	H	THR	D	59	-45.641	15.100	112.353
ATOM	3835	HG1	THR	D	59	-48.943	19.029	111.593
ATOM	3836	N	THR	D	60	-48.075	17.175	114.733
ATOM	3837	CA	THR	D	60	-48.928	16.610	115.771
ATOM	3838	C	THR	D	60	-50.325	16.442	115.210
ATOM	3839	O	THR	D	60	-50.726	17.177	114.297
ATOM	3840	CB	THR	D	60	-49.023	17.523	117.023
ATOM	3841	OG1	THR	D	60	-49.891	18.635	116.751
ATOM	3842	CG2	THR	D	60	-47.641	18.043	117.430
ATOM	3843	H	THR	D	60	-48.058	18.254	114.577
ATOM	3844	HG1	THR	D	60	-49.953	19.272	117.633
ATOM	3845	N	ASP	D	61	-51.088	15.534	115.813
ATOM	3846	CA	ASP	D	61	-52.461	15.254	115.414
ATOM	3847	C	ASP	D	61	-53.418	16.446	115.484
ATOM	3848	O	ASP	D	61	-54.612	16.278	115.260
ATOM	3849	CB	ASP	D	61	-53.026	14.118	116.264
ATOM	3850	CG	ASP	D	61	-53.445	12.916	115.434
ATOM	3851	OD1	ASP	D	61	-54.462	13.011	114.699
ATOM	3852	OD2	ASP	D	61	-52.746	11.878	115.515
ATOM	3853	H	ASP	D	61	-50.666	14.973	116.648
ATOM	3854	N	GLU	D	62	-52.911	17.634	115.814
ATOM	3855	CA	GLU	D	62	-53.748	18.835	115.899
ATOM	3856	C	GLU	D	62	-53.318	19.903	114.903
ATOM	3857	O	GLU	D	62	-54.130	20.733	114.486
ATOM	3858	CB	GLU	D	62	-53.668	19.446	117.291
ATOM	3859	CG	GLU	D	62	-53.908	18.468	118.410
ATOM	3860	CD	GLU	D	62	-53.504	19.032	119.758
ATOM	3861	OE1	GLU	D	62	-52.834	20.097	119.792
ATOM	3862	OE2	GLU	D	62	-53.854	18.399	120.783
ATOM	3863	H	GLU	D	62	-51.845	17.715	116.027
ATOM	3864	N	LYS	D	63	-52.027	19.909	114.566

ATOM	3865	CA	LYS	D	63	-51.461	20.889	113.632
ATOM	3866	C	LYS	D	63	-51.794	20.585	112.174
ATOM	3867	O	LYS	D	63	-51.865	21.481	111.344
ATOM	3868	CB	LYS	D	63	-49.943	20.932	113.783
ATOM	3869	CG	LYS	D	63	-49.473	21.288	115.164
ATOM	3870	CD	LYS	D	63	-47.982	21.080	115.260
ATOM	3871	CE	LYS	D	63	-47.471	21.363	116.661
ATOM	3872	NZ	LYS	D	63	-46.068	20.863	116.815
ATOM	3873	H	LYS	D	63	-51.368	19.156	114.999
ATOM	3874	HZ1	LYS	D	63	-45.716	21.074	117.825
ATOM	3875	HZ2	LYS	D	63	-45.422	21.364	116.094
ATOM	3876	HZ3	LYS	D	63	-46.043	19.788	116.639
ATOM	3877	N	PHE	D	64	-51.994	19.310	111.888
ATOM	3878	CA	PHE	D	64	-52.291	18.834	110.553
ATOM	3879	C	PHE	D	64	-53.731	19.133	110.146
ATOM	3880	O	PHE	D	64	-54.516	18.229	109.924
ATOM	3881	CB	PHE	D	64	-51.992	17.331	110.503
ATOM	3882	CG	PHE	D	64	-52.234	16.702	109.167
ATOM	3883	CD1	PHE	D	64	-51.566	17.156	108.032
ATOM	3884	CD2	PHE	D	64	-53.137	15.666	109.035
ATOM	3885	CE1	PHE	D	64	-51.802	16.585	106.789
ATOM	3886	CE2	PHE	D	64	-53.373	15.093	107.789
ATOM	3887	CZ	PHE	D	64	-52.701	15.555	106.664
ATOM	3888	H	PHE	D	64	-51.934	18.582	112.698
ATOM	3889	N	THR	D	65	-54.062	20.412	110.016
ATOM	3890	CA	THR	D	65	-55.412	20.830	109.628
ATOM	3891	C	THR	D	65	-55.806	20.525	108.170
ATOM	3892	O	THR	D	65	-54.969	20.223	107.320
ATOM	3893	CB	THR	D	65	-55.633	22.348	109.877
ATOM	3894	OG1	THR	D	65	-54.685	23.110	109.113
ATOM	3895	CG2	THR	D	65	-55.520	22.680	111.372
ATOM	3896	H	THR	D	65	-53.306	21.175	110.205
ATOM	3897	HG1	THR	D	65	-54.845	24.174	109.292
ATOM	3898	N	GLU	D	66	-57.104	20.613	107.901
ATOM	3899	CA	GLU	D	66	-57.651	20.359	106.576
ATOM	3900	C	GLU	D	66	-57.053	21.359	105.596
ATOM	3901	O	GLU	D	66	-57.067	22.558	105.848
ATOM	3902	CB	GLU	D	66	-59.172	20.500	106.625
ATOM	3903	CG	GLU	D	66	-59.884	20.152	105.339
ATOM	3904	CD	GLU	D	66	-61.363	19.810	105.547
ATOM	3905	OE1	GLU	D	66	-61.675	18.984	106.445
ATOM	3906	OE2	GLU	D	66	-62.213	20.357	104.800
ATOM	3907	H	GLU	D	66	-57.788	20.885	108.704
ATOM	3908	N	GLY	D	67	-56.485	20.863	104.506
ATOM	3909	CA	GLY	D	67	-55.884	21.744	103.519
ATOM	3910	C	GLY	D	67	-55.018	20.974	102.539
ATOM	3911	O	GLY	D	67	-54.816	19.772	102.690
ATOM	3912	H	GLY	D	67	-56.466	19.784	104.350
ATOM	3913	N	VAL	D	68	-54.537	21.639	101.500
ATOM	3914	CA	VAL	D	68	-53.708	20.945	100.541
ATOM	3915	C	VAL	D	68	-52.295	21.141	101.032
ATOM	3916	O	VAL	D	68	-51.974	22.172	101.604
ATOM	3917	CB	VAL	D	68	-53.902	21.457	99.088
ATOM	3918	CG1	VAL	D	68	-53.344	22.848	98.914
ATOM	3919	CG2	VAL	D	68	-53.265	20.494	98.116
ATOM	3920	H	VAL	D	68	-54.762	22.697	101.370
ATOM	3921	N	TYR	D	69	-51.475	20.122	100.844
ATOM	3922	CA	TYR	D	69	-50.106	20.148	101.294
ATOM	3923	C	TYR	D	69	-49.174	19.777	100.166
ATOM	3924	O	TYR	D	69	-49.602	19.219	99.169
ATOM	3925	CB	TYR	D	69	-49.934	19.121	102.395
ATOM	3926	CG	TYR	D	69	-50.658	19.446	103.664
ATOM	3927	CD1	TYR	D	69	-51.995	19.093	103.831

ATOM	3928	CD2	TYR	D	69	-49.966	19.983	104.758
ATOM	3929	CE1	TYR	D	69	-52.619	19.247	105.059
ATOM	3930	CE2	TYR	D	69	-50.572	20.130	105.971
ATOM	3931	CZ	TYR	D	69	-51.896	19.757	106.129
ATOM	3932	OH	TYR	D	69	-52.467	19.832	107.381
ATOM	3933	H	TYR	D	69	-51.845	19.234	100.333
ATOM	3934	HH	TYR	D	69	-51.749	20.256	108.083
ATOM	3935	N	ARG	D	70	-47.886	20.024	100.367
ATOM	3936	CA	ARG	D	70	-46.884	19.693	99.366
ATOM	3937	C	ARG	D	70	-45.701	19.088	100.104
ATOM	3938	O	ARG	D	70	-45.139	19.718	100.996
ATOM	3939	CB	ARG	D	70	-46.443	20.941	98.612
ATOM	3940	CG	ARG	D	70	-45.650	20.643	97.374
ATOM	3941	CD	ARG	D	70	-45.083	21.910	96.808
ATOM	3942	NE	ARG	D	70	-44.009	21.658	95.848
ATOM	3943	CZ	ARG	D	70	-42.809	21.170	96.158
ATOM	3944	NH1	ARG	D	70	-42.514	20.863	97.420
ATOM	3945	NH2	ARG	D	70	-41.889	21.015	95.209
ATOM	3946	H	ARG	D	70	-47.572	20.485	101.303
ATOM	3947	HE	ARG	D	70	-44.205	21.885	94.800
ATOM	3948	HH1	ARG	D	70	-41.494	20.482	97.472
ATOM	3949	HH1	ARG	D	70	-43.187	20.977	98.270
ATOM	3950	HH2	ARG	D	70	-40.979	20.607	95.648
ATOM	3951	HH2	ARG	D	70	-42.025	21.259	94.155
ATOM	3952	N	VAL	D	71	-45.429	17.816	99.825
ATOM	3953	CA	VAL	D	71	-44.318	17.094	100.423
ATOM	3954	C	VAL	D	71	-43.307	17.057	99.294
ATOM	3955	O	VAL	D	71	-43.690	16.940	98.137
ATOM	3956	CB	VAL	D	71	-44.762	15.684	100.824
ATOM	3957	CG1	VAL	D	71	-43.598	14.883	101.402
ATOM	3958	CG2	VAL	D	71	-45.869	15.791	101.863
ATOM	3959	H	VAL	D	71	-46.069	17.290	99.117
ATOM	3960	N	GLU	D	72	-42.041	17.310	99.601
ATOM	3961	CA	GLU	D	72	-40.989	17.327	98.577
ATOM	3962	C	GLU	D	72	-39.725	16.702	99.129
ATOM	3963	O	GLU	D	72	-39.231	17.118	100.186
ATOM	3964	CB	GLU	D	72	-40.692	18.751	98.138
ATOM	3965	CG	GLU	D	72	-39.408	18.944	97.324
ATOM	3966	CD	GLU	D	72	-38.987	20.418	97.252
ATOM	3967	OE1	GLU	D	72	-39.466	21.196	98.098
ATOM	3968	OE2	GLU	D	72	-38.184	20.804	96.373
ATOM	3969	H	GLU	D	72	-41.777	17.511	100.639
ATOM	3970	N	LEU	D	73	-39.247	15.680	98.421
ATOM	3971	CA	LEU	D	73	-38.064	14.937	98.789
ATOM	3972	C	LEU	D	73	-36.922	15.290	97.880
ATOM	3973	O	LEU	D	73	-37.069	15.348	96.658
ATOM	3974	CB	LEU	D	73	-38.322	13.439	98.686
ATOM	3975	CG	LEU	D	73	-39.555	12.927	99.430
ATOM	3976	CD1	LEU	D	73	-40.736	12.840	98.471
ATOM	3977	CD2	LEU	D	73	-39.267	11.557	100.006
ATOM	3978	H	LEU	D	73	-39.776	15.390	97.513
ATOM	3979	N	ASP	D	74	-35.763	15.486	98.484
ATOM	3980	CA	ASP	D	74	-34.564	15.827	97.753
ATOM	3981	C	ASP	D	74	-33.835	14.571	97.256
ATOM	3982	O	ASP	D	74	-32.839	14.118	97.856
ATOM	3983	CB	ASP	D	74	-33.677	16.681	98.643
ATOM	3984	CG	ASP	D	74	-32.306	16.911	98.070
ATOM	3985	OD1	ASP	D	74	-32.180	17.245	96.868
ATOM	3986	OD2	ASP	D	74	-31.349	16.757	98.861
ATOM	3987	H	ASP	D	74	-35.710	15.385	99.568
ATOM	3988	N	THR	D	75	-34.373	13.974	96.189
ATOM	3989	CA	THR	D	75	-33.750	12.791	95.597
ATOM	3990	C	THR	D	75	-32.425	13.220	94.952

ATOM	3991	O	THR	D	75	-31.405	12.558	95.100
ATOM	3992	CB	THR	D	75	-34.683	12.076	94.547
ATOM	3993	OG1	THR	D	75	-35.398	13.036	93.753
ATOM	3994	CG2	THR	D	75	-35.690	11.170	95.254
ATOM	3995	H	THR	D	75	-35.289	14.374	95.755
ATOM	3996	HG1	THR	D	75	-36.033	12.515	93.037
ATOM	3997	N	LYS	D	76	-32.424	14.407	94.362
ATOM	3998	CA	LYS	D	76	-31.253	14.930	93.681
ATOM	3999	C	LYS	D	76	-29.990	14.799	94.501
ATOM	4000	O	LYS	D	76	-28.987	14.282	94.015
ATOM	4001	CB	LYS	D	76	-31.468	16.395	93.293
ATOM	4002	CG	LYS	D	76	-31.060	16.714	91.861
ATOM	4003	CD	LYS	D	76	-29.936	17.725	91.808
ATOM	4004	CE	LYS	D	76	-29.642	18.137	90.379
ATOM	4005	NZ	LYS	D	76	-28.465	19.064	90.318
ATOM	4006	H	LYS	D	76	-33.332	15.011	94.390
ATOM	4007	HZ1	LYS	D	76	-28.276	19.344	89.282
ATOM	4008	HZ2	LYS	D	76	-27.587	18.563	90.726
ATOM	4009	HZ3	LYS	D	76	-28.677	19.959	90.903
ATOM	4010	N	SER	D	77	-30.039	15.242	95.754
ATOM	4011	CA	SER	D	77	-28.858	15.149	96.604
ATOM	4012	C	SER	D	77	-28.652	13.761	97.179
ATOM	4013	O	SER	D	77	-27.531	13.403	97.530
ATOM	4014	CB	SER	D	77	-28.853	16.212	97.711
ATOM	4015	OG	SER	D	77	-28.804	17.532	97.173
ATOM	4016	H	SER	D	77	-30.961	15.671	96.145
ATOM	4017	HG	SER	D	77	-28.803	18.256	97.987
ATOM	4018	N	TYR	D	78	-29.716	12.966	97.250
ATOM	4019	CA	TYR	D	78	-29.577	11.606	97.757
ATOM	4020	C	TYR	D	78	-28.697	10.865	96.811
ATOM	4021	O	TYR	D	78	-27.636	10.390	97.175
ATOM	4022	CB	TYR	D	78	-30.892	10.852	97.771
ATOM	4023	CG	TYR	D	78	-30.721	9.474	98.353
ATOM	4024	CD1	TYR	D	78	-30.144	9.315	99.598
ATOM	4025	CD2	TYR	D	78	-31.159	8.336	97.679
ATOM	4026	CE1	TYR	D	78	-30.011	8.067	100.180
ATOM	4027	CE2	TYR	D	78	-31.031	7.075	98.257
ATOM	4028	CZ	TYR	D	78	-30.457	6.956	99.518
ATOM	4029	OH	TYR	D	78	-30.389	5.751	100.177
ATOM	4030	H	TYR	D	78	-30.691	13.331	96.928
ATOM	4031	HH	TYR	D	78	-30.775	4.962	99.532
ATOM	4032	N	TRP	D	79	-29.174	10.752	95.583
ATOM	4033	CA	TRP	D	79	-28.449	10.036	94.564
ATOM	4034	C	TRP	D	79	-27.073	10.618	94.317
ATOM	4035	O	TRP	D	79	-26.086	9.876	94.169
ATOM	4036	CB	TRP	D	79	-29.275	9.969	93.281
ATOM	4037	CG	TRP	D	79	-30.425	9.004	93.419
ATOM	4038	CD1	TRP	D	79	-31.752	9.305	93.400
ATOM	4039	CD2	TRP	D	79	-30.339	7.585	93.598
ATOM	4040	NE1	TRP	D	79	-32.508	8.161	93.557
ATOM	4041	CE2	TRP	D	79	-31.665	7.091	93.679
ATOM	4042	CE3	TRP	D	79	-29.277	6.680	93.691
ATOM	4043	CZ2	TRP	D	79	-31.953	5.736	93.846
ATOM	4044	CZ3	TRP	D	79	-29.564	5.336	93.854
ATOM	4045	CH2	TRP	D	79	-30.896	4.878	93.927
ATOM	4046	H	TRP	D	79	-30.133	11.207	95.337
ATOM	4047	HE1	TRP	D	79	-33.597	8.117	93.581
ATOM	4048	N	LYS	D	80	-26.993	11.943	94.331
ATOM	4049	CA	LYS	D	80	-25.730	12.620	94.107
ATOM	4050	C	LYS	D	80	-24.633	12.352	95.143
ATOM	4051	O	LYS	D	80	-23.455	12.448	94.820
ATOM	4052	CB	LYS	D	80	-25.970	14.117	93.929
ATOM	4053	CG	LYS	D	80	-26.178	14.525	92.483

ATOM	4054	CD	LYS	D	80	-24.946	15.250	91.918
ATOM	4055	CE	LYS	D	80	-23.674	14.403	91.977
ATOM	4056	NZ	LYS	D	80	-23.752	13.160	91.144
ATOM	4057	H	LYS	D	80	-27.892	12.532	94.512
ATOM	4058	HZ1	LYS	D	80	-22.818	12.605	91.231
ATOM	4059	HZ2	LYS	D	80	-23.919	13.431	90.102
ATOM	4060	HZ3	LYS	D	80	-24.577	12.540	91.495
ATOM	4061	N	ALA	D	81	-25.007	11.951	96.350
ATOM	4062	CA	ALA	D	81	-24.034	11.672	97.410
ATOM	4063	C	ALA	D	81	-23.513	10.249	97.342
ATOM	4064	O	ALA	D	81	-22.781	9.797	98.239
ATOM	4065	CB	ALA	D	81	-24.662	11.918	98.807
ATOM	4066	H	ALA	D	81	-26.069	11.826	96.561
ATOM	4067	N	LEU	D	82	-23.993	9.523	96.347
ATOM	4068	CA	LEU	D	82	-23.620	8.137	96.121
ATOM	4069	C	LEU	D	82	-22.909	8.069	94.762
ATOM	4070	O	LEU	D	82	-22.389	7.029	94.374
ATOM	4071	CB	LEU	D	82	-24.874	7.252	96.168
ATOM	4072	CG	LEU	D	82	-25.734	7.480	97.421
ATOM	4073	CD1	LEU	D	82	-27.123	6.904	97.273
ATOM	4074	CD2	LEU	D	82	-25.049	6.897	98.665
ATOM	4075	H	LEU	D	82	-24.704	9.986	95.663
ATOM	4076	N	GLY	D	83	-22.847	9.221	94.089
ATOM	4077	CA	GLY	D	83	-22.181	9.342	92.801
ATOM	4078	C	GLY	D	83	-23.042	9.180	91.561
ATOM	4079	O	GLY	D	83	-22.542	9.247	90.434
ATOM	4080	H	GLY	D	83	-23.316	10.105	94.521
ATOM	4081	N	ILE	D	84	-24.337	8.981	91.741
ATOM	4082	CA	ILE	D	84	-25.183	8.786	90.587
ATOM	4083	C	ILE	D	84	-25.943	10.064	90.273
ATOM	4084	O	ILE	D	84	-26.570	10.646	91.153
ATOM	4085	CB	ILE	D	84	-26.141	7.587	90.795
ATOM	4086	CG1	ILE	D	84	-25.416	6.434	91.498
ATOM	4087	CG2	ILE	D	84	-26.586	7.035	89.447
ATOM	4088	CD1	ILE	D	84	-26.327	5.306	91.905
ATOM	4089	H	ILE	D	84	-24.761	8.963	92.745
ATOM	4090	N	SER	D	85	-25.772	10.551	89.044
ATOM	4091	CA	SER	D	85	-26.447	11.753	88.563
ATOM	4092	C	SER	D	85	-27.863	11.318	88.198
ATOM	4093	O	SER	D	85	-28.089	10.699	87.150
ATOM	4094	CB	SER	D	85	-25.735	12.318	87.322
ATOM	4095	OG	SER	D	85	-26.029	11.577	86.143
ATOM	4096	H	SER	D	85	-25.095	10.030	88.367
ATOM	4097	HG	SER	D	85	-25.501	12.017	85.296
ATOM	4098	N	PRO	D	86	-28.836	11.612	89.073
ATOM	4099	CA	PRO	D	86	-30.213	11.214	88.785
ATOM	4100	C	PRO	D	86	-30.771	12.053	87.635
ATOM	4101	O	PRO	D	86	-30.062	12.885	87.074
ATOM	4102	CB	PRO	D	86	-30.912	11.509	90.101
ATOM	4103	CG	PRO	D	86	-30.237	12.749	90.544
ATOM	4104	CD	PRO	D	86	-28.779	12.495	90.253
ATOM	4105	N	PHE	D	87	-32.013	11.787	87.255
ATOM	4106	CA	PHE	D	87	-32.663	12.537	86.193
ATOM	4107	C	PHE	D	87	-33.426	13.717	86.788
ATOM	4108	O	PHE	D	87	-33.260	14.857	86.350
ATOM	4109	CB	PHE	D	87	-33.656	11.634	85.439
ATOM	4110	CG	PHE	D	87	-34.482	12.356	84.396
ATOM	4111	CD1	PHE	D	87	-33.922	12.737	83.180
ATOM	4112	CD2	PHE	D	87	-35.815	12.634	84.624
ATOM	4113	CE1	PHE	D	87	-34.681	13.391	82.207
ATOM	4114	CE2	PHE	D	87	-36.571	13.282	83.666
ATOM	4115	CZ	PHE	D	87	-36.003	13.660	82.453
ATOM	4116	H	PHE	D	87	-32.561	10.986	87.751

ATOM	4117	N	HIS	D	88	-34.246	13.418	87.800
ATOM	4118	CA	HIS	D	88	-35.122	14.392	88.460
ATOM	4119	C	HIS	D	88	-34.445	15.366	89.376
ATOM	4120	O	HIS	D	88	-33.513	15.014	90.079
ATOM	4121	CB	HIS	D	88	-36.238	13.677	89.225
ATOM	4122	CG	HIS	D	88	-37.057	12.770	88.366
ATOM	4123	ND1	HIS	D	88	-37.083	11.402	88.537
ATOM	4124	CD2	HIS	D	88	-37.861	13.035	87.311
ATOM	4125	CE1	HIS	D	88	-37.870	10.866	87.621
ATOM	4126	NE2	HIS	D	88	-38.355	11.834	86.866
ATOM	4127	H	HIS	D	88	-34.269	12.387	88.153
ATOM	4128	HD1	HIS	D	88	-36.541	10.851	89.305
ATOM	4129	N	GLU	D	89	-34.973	16.583	89.390
ATOM	4130	CA	GLU	D	89	-34.450	17.657	90.200
ATOM	4131	C	GLU	D	89	-34.840	17.422	91.662
ATOM	4132	O	GLU	D	89	-34.094	17.760	92.591
ATOM	4133	CB	GLU	D	89	-35.006	18.977	89.662
ATOM	4134	CG	GLU	D	89	-34.228	20.236	90.047
ATOM	4135	CD	GLU	D	89	-32.758	20.153	89.700
ATOM	4136	OE1	GLU	D	89	-32.439	19.723	88.566
ATOM	4137	OE2	GLU	D	89	-31.928	20.515	90.573
ATOM	4138	H	GLU	D	89	-35.843	16.780	88.764
ATOM	4139	N	TYR	D	90	-36.007	16.818	91.848
ATOM	4140	CA	TYR	D	90	-36.535	16.483	93.164
ATOM	4141	C	TYR	D	90	-37.791	15.633	92.968
ATOM	4142	O	TYR	D	90	-38.092	15.219	91.851
ATOM	4143	CB	TYR	D	90	-36.861	17.754	93.976
ATOM	4144	CG	TYR	D	90	-37.840	18.702	93.326
ATOM	4145	CD1	TYR	D	90	-39.177	18.344	93.130
ATOM	4146	CD2	TYR	D	90	-37.434	19.966	92.916
ATOM	4147	CE1	TYR	D	90	-40.083	19.215	92.547
ATOM	4148	CE2	TYR	D	90	-38.333	20.856	92.330
ATOM	4149	CZ	TYR	D	90	-39.658	20.477	92.148
ATOM	4150	OH	TYR	D	90	-40.553	21.369	91.577
ATOM	4151	H	TYR	D	90	-36.601	16.559	90.971
ATOM	4152	HH	TYR	D	90	-40.035	22.297	91.334
ATOM	4153	N	ALA	D	91	-38.505	15.358	94.056
ATOM	4154	CA	ALA	D	91	-39.748	14.597	93.996
ATOM	4155	C	ALA	D	91	-40.808	15.334	94.831
ATOM	4156	O	ALA	D	91	-40.649	15.542	96.050
ATOM	4157	CB	ALA	D	91	-39.540	13.173	94.496
ATOM	4158	H	ALA	D	91	-38.149	15.711	95.024
ATOM	4159	N	GLU	D	92	-41.875	15.744	94.151
ATOM	4160	CA	GLU	D	92	-42.985	16.486	94.763
ATOM	4161	C	GLU	D	92	-44.331	15.732	94.728
ATOM	4162	O	GLU	D	92	-44.750	15.170	93.702
ATOM	4163	CB	GLU	D	92	-43.128	17.857	94.080
ATOM	4164	CG	GLU	D	92	-44.293	18.707	94.571
ATOM	4165	CD	GLU	D	92	-44.679	19.809	93.590
ATOM	4166	OE1	GLU	D	92	-43.859	20.713	93.352
ATOM	4167	OE2	GLU	D	92	-45.799	19.768	93.039
ATOM	4168	H	GLU	D	92	-41.928	15.518	93.086
ATOM	4169	N	VAL	D	93	-45.028	15.793	95.854
ATOM	4170	CA	VAL	D	93	-46.309	15.138	96.025
ATOM	4171	C	VAL	D	93	-47.237	16.110	96.763
ATOM	4172	O	VAL	D	93	-47.149	16.270	97.986
ATOM	4173	CB	VAL	D	93	-46.133	13.818	96.835
ATOM	4174	CG1	VAL	D	93	-47.448	13.118	97.042
ATOM	4175	CG2	VAL	D	93	-45.188	12.912	96.146
ATOM	4176	H	VAL	D	93	-44.619	16.362	96.689
ATOM	4177	N	VAL	D	94	-48.040	16.833	95.993
ATOM	4178	CA	VAL	D	94	-49.008	17.764	96.544
ATOM	4179	C	VAL	D	94	-50.292	16.958	96.634

ATOM	4180	O	VAL	D	94	-50.728	16.395	95.629
ATOM	4181	CB	VAL	D	94	-49.313	18.950	95.587
ATOM	4182	CG1	VAL	D	94	-50.065	20.020	96.316
ATOM	4183	CG2	VAL	D	94	-48.068	19.488	94.954
ATOM	4184	H	VAL	D	94	-47.971	16.724	94.911
ATOM	4185	N	PHE	D	95	-50.903	16.938	97.817
ATOM	4186	CA	PHE	D	95	-52.154	16.211	98.074
ATOM	4187	C	PHE	D	95	-53.060	17.050	98.975
ATOM	4188	O	PHE	D	95	-52.593	17.959	99.662
ATOM	4189	CB	PHE	D	95	-51.863	14.890	98.785
ATOM	4190	CG	PHE	D	95	-51.256	15.057	100.165
ATOM	4191	CD1	PHE	D	95	-49.879	15.170	100.331
ATOM	4192	CD2	PHE	D	95	-52.059	15.061	101.301
ATOM	4193	CE1	PHE	D	95	-49.314	15.276	101.603
ATOM	4194	CE2	PHE	D	95	-51.496	15.166	102.573
ATOM	4195	CZ	PHE	D	95	-50.124	15.271	102.722
ATOM	4196	H	PHE	D	95	-50.450	17.492	98.640
ATOM	4197	N	THR	D	96	-54.357	16.785	98.959
ATOM	4198	CA	THR	D	96	-55.241	17.533	99.842
ATOM	4199	C	THR	D	96	-55.433	16.631	101.059
ATOM	4200	O	THR	D	96	-55.690	15.453	100.922
ATOM	4201	CB	THR	D	96	-56.620	17.864	99.187
ATOM	4202	OG1	THR	D	96	-56.419	18.489	97.911
ATOM	4203	CG2	THR	D	96	-57.415	18.816	100.072
ATOM	4204	H	THR	D	96	-54.757	16.019	98.294
ATOM	4205	HG1	THR	D	96	-57.386	18.717	97.462
ATOM	4206	N	ALA	D	97	-55.207	17.162	102.246
ATOM	4207	CA	ALA	D	97	-55.374	16.371	103.444
ATOM	4208	C	ALA	D	97	-56.684	16.758	104.089
ATOM	4209	O	ALA	D	97	-56.726	17.171	105.243
ATOM	4210	CB	ALA	D	97	-54.221	16.636	104.410
ATOM	4211	H	ALA	D	97	-54.893	18.203	102.323
ATOM	4212	N	ASN	D	98	-57.754	16.677	103.305
ATOM	4213	CA	ASN	D	98	-59.087	17.019	103.780
ATOM	4214	C	ASN	D	98	-59.377	16.008	104.863
ATOM	4215	O	ASN	D	98	-59.861	14.904	104.595
ATOM	4216	CB	ASN	D	98	-60.118	16.907	102.654
ATOM	4217	CG	ASN	D	98	-61.528	17.211	103.127
ATOM	4218	OD1	ASN	D	98	-62.068	16.524	104.000
ATOM	4219	ND2	ASN	D	98	-62.128	18.254	102.560
ATOM	4220	H	ASN	D	98	-57.630	16.346	102.274
ATOM	4221	HD2	ASN	D	98	-63.127	18.370	102.979
ATOM	4222	HD2	ASN	D	98	-61.688	18.894	101.795
ATOM	4223	N	ASP	D	99	-58.967	16.365	106.071
ATOM	4224	CA	ASP	D	99	-59.136	15.517	107.234
ATOM	4225	C	ASP	D	99	-60.586	15.130	107.451
ATOM	4226	O	ASP	D	99	-61.294	15.723	108.270
ATOM	4227	CB	ASP	D	99	-58.549	16.213	108.459
ATOM	4228	CG	ASP	D	99	-57.049	16.277	108.403
ATOM	4229	OD1	ASP	D	99	-56.434	15.224	108.168
ATOM	4230	OD2	ASP	D	99	-56.487	17.374	108.556
ATOM	4231	H	ASP	D	99	-58.483	17.333	106.195
ATOM	4232	N	SER	D	100	-61.024	14.142	106.683
ATOM	4233	CA	SER	D	100	-62.384	13.659	106.783
ATOM	4234	C	SER	D	100	-62.330	12.209	107.280
ATOM	4235	O	SER	D	100	-61.811	11.938	108.379
ATOM	4236	CB	SER	D	100	-63.090	13.782	105.422
ATOM	4237	OG	SER	D	100	-64.505	13.762	105.555
ATOM	4238	H	SER	D	100	-60.347	13.684	105.962
ATOM	4239	HG	SER	D	100	-64.963	13.851	104.570
ATOM	4240	N	GLY	D	101	-62.795	11.281	106.450
ATOM	4241	CA	GLY	D	101	-62.817	9.878	106.823
ATOM	4242	C	GLY	D	101	-61.545	9.287	107.368

ATOM	4243	O	GLY D 101	-61.571	8.350	108.170
ATOM	4244	H	GLY D 101	-63.169	11.579	105.471
ATOM	4245	N	HIS D 102	-60.425	9.861	106.950
ATOM	4246	CA	HIS D 102	-59.135	9.354	107.355
ATOM	4247	C	HIS D 102	-58.212	10.449	107.879
ATOM	4248	O	HIS D 102	-58.016	11.482	107.232
ATOM	4249	CB	HIS D 102	-58.497	8.654	106.166
ATOM	4250	CG	HIS D 102	-59.373	7.629	105.509
ATOM	4251	ND1	HIS D 102	-59.973	7.840	104.286
ATOM	4252	CD2	HIS D 102	-59.727	6.377	105.890
ATOM	4253	CE1	HIS D 102	-60.659	6.765	103.941
ATOM	4254	NE2	HIS D 102	-60.524	5.862	104.896
ATOM	4255	H	HIS D 102	-60.479	10.728	106.291
ATOM	4256	HD1	HIS D 102	-59.892	8.752	103.695
ATOM	4257	N	ARG D 103	-57.657	10.207	109.061
ATOM	4258	CA	ARG D 103	-56.752	11.151	109.694
ATOM	4259	C	ARG D 103	-55.284	10.849	109.418
ATOM	4260	O	ARG D 103	-54.485	11.769	109.265
ATOM	4261	CB	ARG D 103	-57.011	11.201	111.207
ATOM	4262	CG	ARG D 103	-56.185	12.241	111.992
ATOM	4263	CD	ARG D 103	-56.235	13.651	111.375
ATOM	4264	NE	ARG D 103	-57.415	13.836	110.532
ATOM	4265	CZ	ARG D 103	-58.618	14.174	110.979
ATOM	4266	NH1	ARG D 103	-58.812	14.395	112.272
ATOM	4267	NH2	ARG D 103	-59.653	14.166	110.148
ATOM	4268	H	ARG D 103	-57.888	9.272	109.571
ATOM	4269	HE	ARG D 103	-57.300	13.685	109.459
ATOM	4270	HH1	ARG D 103	-59.856	14.659	112.442
ATOM	4271	HH1	ARG D 103	-58.046	14.324	113.043
ATOM	4272	HH2	ARG D 103	-60.552	14.468	110.685
ATOM	4273	HH2	ARG D 103	-59.611	13.896	109.093
ATOM	4274	N	HIS D 104	-54.923	9.572	109.340
ATOM	4275	CA	HIS D 104	-53.528	9.214	109.107
ATOM	4276	C	HIS D 104	-53.200	8.992	107.640
ATOM	4277	O	HIS D 104	-53.945	8.318	106.916
ATOM	4278	CB	HIS D 104	-53.139	8.002	109.960
ATOM	4279	CG	HIS D 104	-53.284	8.242	111.433
ATOM	4280	ND1	HIS D 104	-53.525	7.228	112.337
ATOM	4281	CD2	HIS D 104	-53.283	9.392	112.152
ATOM	4282	CE1	HIS D 104	-53.672	7.745	113.546
ATOM	4283	NE2	HIS D 104	-53.531	9.055	113.459
ATOM	4284	H	HIS D 104	-55.673	8.789	109.452
ATOM	4285	HD1	HIS D 104	-53.589	6.168	112.092
ATOM	4286	N	TYR D 105	-52.085	9.581	107.219
ATOM	4287	CA	TYR D 105	-51.603	9.498	105.849
ATOM	4288	C	TYR D 105	-50.192	8.978	105.825
ATOM	4289	O	TYR D 105	-49.370	9.335	106.666
ATOM	4290	CB	TYR D 105	-51.589	10.871	105.184
ATOM	4291	CG	TYR D 105	-52.948	11.472	104.966
ATOM	4292	CD1	TYR D 105	-53.601	12.143	105.996
ATOM	4293	CD2	TYR D 105	-53.585	11.370	103.737
ATOM	4294	CE1	TYR D 105	-54.847	12.691	105.810
ATOM	4295	CE2	TYR D 105	-54.829	11.920	103.541
ATOM	4296	CZ	TYR D 105	-55.456	12.578	104.583
ATOM	4297	OH	TYR D 105	-56.702	13.130	104.407
ATOM	4298	H	TYR D 105	-51.501	10.156	107.938
ATOM	4299	HH	TYR D 105	-57.037	12.951	103.386
ATOM	4300	N	THR D 106	-49.911	8.145	104.835
ATOM	4301	CA	THR D 106	-48.577	7.613	104.665
ATOM	4302	C	THR D 106	-48.162	7.752	103.208
ATOM	4303	O	THR D 106	-48.711	7.086	102.318
ATOM	4304	CB	THR D 106	-48.486	6.152	105.116
ATOM	4305	OG1	THR D 106	-48.883	6.066	106.497

ATOM	4306	CG2	THR	D	106	-47.056	5.636	104.947
ATOM	4307	H	THR	D	106	-50.697	7.856	104.137
ATOM	4308	HG1	THR	D	106	-48.822	5.030	106.829
ATOM	4309	N	ILE	D	107	-47.231	8.665	102.969
ATOM	4310	CA	ILE	D	107	-46.718	8.891	101.635
ATOM	4311	C	ILE	D	107	-45.458	8.056	101.436
ATOM	4312	O	ILE	D	107	-44.421	8.350	102.020
ATOM	4313	CB	ILE	D	107	-46.366	10.378	101.411
ATOM	4314	CG1	ILE	D	107	-47.628	11.228	101.510
ATOM	4315	CG2	ILE	D	107	-45.681	10.569	100.064
ATOM	4316	CD1	ILE	D	107	-47.387	12.688	101.344
ATOM	4317	H	ILE	D	107	-46.843	9.258	103.797
ATOM	4318	N	ALA	D	108	-45.557	7.006	100.633
ATOM	4319	CA	ALA	D	108	-44.404	6.160	100.348
ATOM	4320	C	ALA	D	108	-43.771	6.528	98.987
ATOM	4321	O	ALA	D	108	-44.385	7.213	98.147
ATOM	4322	CB	ALA	D	108	-44.810	4.715	100.377
ATOM	4323	H	ALA	D	108	-46.518	6.772	100.175
ATOM	4324	N	ALA	D	109	-42.542	6.087	98.761
ATOM	4325	CA	ALA	D	109	-41.865	6.396	97.513
ATOM	4326	C	ALA	D	109	-40.626	5.518	97.315
ATOM	4327	O	ALA	D	109	-39.823	5.321	98.236
ATOM	4328	CB	ALA	D	109	-41.509	7.878	97.469
ATOM	4329	H	ALA	D	109	-42.035	5.487	99.517
ATOM	4330	N	LEU	D	110	-40.526	4.943	96.121
ATOM	4331	CA	LEU	D	110	-39.430	4.068	95.734
ATOM	4332	C	LEU	D	110	-38.549	4.833	94.759
ATOM	4333	O	LEU	D	110	-39.001	5.224	93.679
ATOM	4334	CB	LEU	D	110	-40.000	2.832	95.052
ATOM	4335	CG	LEU	D	110	-39.108	1.777	94.405
ATOM	4336	CD1	LEU	D	110	-38.469	0.864	95.450
ATOM	4337	CD2	LEU	D	110	-39.981	0.951	93.457
ATOM	4338	H	LEU	D	110	-41.309	5.140	95.389
ATOM	4339	N	LEU	D	111	-37.292	5.020	95.145
ATOM	4340	CA	LEU	D	111	-36.313	5.753	94.363
ATOM	4341	C	LEU	D	111	-35.418	4.916	93.484
ATOM	4342	O	LEU	D	111	-35.010	3.814	93.846
ATOM	4343	CB	LEU	D	111	-35.424	6.544	95.300
ATOM	4344	CG	LEU	D	111	-36.186	7.323	96.369
ATOM	4345	CD1	LEU	D	111	-35.213	8.249	97.156
ATOM	4346	CD2	LEU	D	111	-37.322	8.105	95.693
ATOM	4347	H	LEU	D	111	-36.978	4.600	96.101
ATOM	4348	N	SER	D	112	-35.063	5.487	92.344
ATOM	4349	CA	SER	D	112	-34.170	4.873	91.354
ATOM	4350	C	SER	D	112	-33.647	6.113	90.668
ATOM	4351	O	SER	D	112	-34.369	7.100	90.567
ATOM	4352	CB	SER	D	112	-34.949	4.001	90.371
ATOM	4353	OG	SER	D	112	-34.553	2.645	90.475
ATOM	4354	H	SER	D	112	-35.460	6.479	92.126
ATOM	4355	HG	SER	D	112	-35.123	2.045	89.765
ATOM	4356	N	PRO	D	113	-32.403	6.085	90.178
ATOM	4357	CA	PRO	D	113	-31.750	7.212	89.498
ATOM	4358	C	PRO	D	113	-32.536	7.929	88.383
ATOM	4359	O	PRO	D	113	-32.386	9.142	88.221
ATOM	4360	CB	PRO	D	113	-30.481	6.583	88.945
ATOM	4361	CG	PRO	D	113	-30.232	5.441	89.853
ATOM	4362	CD	PRO	D	113	-31.593	4.865	90.053
ATOM	4363	N	TYR	D	114	-33.350	7.180	87.633
ATOM	4364	CA	TYR	D	114	-34.166	7.669	86.523
ATOM	4365	C	TYR	D	114	-35.671	7.393	86.665
ATOM	4366	O	TYR	D	114	-36.426	7.596	85.694
ATOM	4367	CB	TYR	D	114	-33.734	6.979	85.231
ATOM	4368	CG	TYR	D	114	-32.546	7.600	84.587

ATOM	4369	CD1	TYR	D	114	-32.679	8.741	83.797
ATOM	4370	CD2	TYR	D	114	-31.268	7.115	84.839
ATOM	4371	CE1	TYR	D	114	-31.573	9.383	83.292
ATOM	4372	CE2	TYR	D	114	-30.144	7.757	84.331
ATOM	4373	CZ	TYR	D	114	-30.305	8.886	83.569
ATOM	4374	OH	TYR	D	114	-29.190	9.540	83.106
ATOM	4375	H	TYR	D	114	-33.412	6.118	87.869
ATOM	4376	HH	TYR	D	114	-28.296	9.002	83.423
ATOM	4377	N	SER	D	115	-36.125	6.908	87.826
ATOM	4378	CA	SER	D	115	-37.547	6.606	87.982
ATOM	4379	C	SER	D	115	-37.983	6.582	89.447
ATOM	4380	O	SER	D	115	-37.224	6.128	90.324
ATOM	4381	CB	SER	D	115	-37.839	5.258	87.314
ATOM	4382	OG	SER	D	115	-39.225	5.001	87.153
ATOM	4383	H	SER	D	115	-35.436	6.738	88.653
ATOM	4384	HG	SER	D	115	-39.361	4.031	86.674
ATOM	4385	N	TYR	D	116	-39.185	7.092	89.721
ATOM	4386	CA	TYR	D	116	-39.696	7.092	91.091
ATOM	4387	C	TYR	D	116	-41.188	6.764	91.121
ATOM	4388	O	TYR	D	116	-41.895	6.976	90.126
ATOM	4389	CB	TYR	D	116	-39.379	8.410	91.823
ATOM	4390	CG	TYR	D	116	-40.246	9.608	91.505
ATOM	4391	CD1	TYR	D	116	-39.923	10.485	90.454
ATOM	4392	CD2	TYR	D	116	-41.336	9.919	92.306
ATOM	4393	CE1	TYR	D	116	-40.681	11.661	90.224
ATOM	4394	CE2	TYR	D	116	-42.096	11.082	92.094
ATOM	4395	CZ	TYR	D	116	-41.761	11.949	91.056
ATOM	4396	OH	TYR	D	116	-42.496	13.099	90.898
ATOM	4397	H	TYR	D	116	-39.790	7.513	88.918
ATOM	4398	HH	TYR	D	116	-43.288	13.130	91.645
ATOM	4399	N	SER	D	117	-41.650	6.200	92.235
ATOM	4400	CA	SER	D	117	-43.047	5.832	92.355
ATOM	4401	C	SER	D	117	-43.602	6.199	93.711
ATOM	4402	O	SER	D	117	-43.098	5.760	94.719
ATOM	4403	CB	SER	D	117	-43.208	4.328	92.122
ATOM	4404	OG	SER	D	117	-42.528	3.893	90.940
ATOM	4405	H	SER	D	117	-40.970	6.012	93.066
ATOM	4406	HG	SER	D	117	-42.670	2.820	90.815
ATOM	4407	N	THR	D	118	-44.614	7.056	93.740
ATOM	4408	CA	THR	D	118	-45.226	7.456	95.007
ATOM	4409	C	THR	D	118	-46.537	6.715	95.135
ATOM	4410	O	THR	D	118	-47.092	6.205	94.142
ATOM	4411	CB	THR	D	118	-45.516	8.994	95.118
ATOM	4412	OG1	THR	D	118	-46.326	9.427	94.016
ATOM	4413	CG2	THR	D	118	-44.237	9.790	95.136
ATOM	4414	H	THR	D	118	-44.995	7.469	92.806
ATOM	4415	HG1	THR	D	118	-46.520	10.496	94.105
ATOM	4416	N	THR	D	119	-47.031	6.665	96.358
ATOM	4417	CA	THR	D	119	-48.277	6.003	96.629
ATOM	4418	C	THR	D	119	-48.706	6.523	97.962
ATOM	4419	O	THR	D	119	-47.872	6.878	98.805
ATOM	4420	CB	THR	D	119	-48.111	4.460	96.705
ATOM	4421	OG1	THR	D	119	-49.325	3.858	97.173
ATOM	4422	CG2	THR	D	119	-46.978	4.081	97.634
ATOM	4423	H	THR	D	119	-46.485	7.136	97.176
ATOM	4424	HG1	THR	D	119	-49.199	2.776	97.222
ATOM	4425	N	ALA	D	120	-50.007	6.599	98.151
ATOM	4426	CA	ALA	D	120	-50.514	7.076	99.407
ATOM	4427	C	ALA	D	120	-51.313	5.963	100.025
ATOM	4428	O	ALA	D	120	-51.862	5.102	99.330
ATOM	4429	CB	ALA	D	120	-51.373	8.271	99.186
ATOM	4430	H	ALA	D	120	-50.695	6.306	97.358
ATOM	4431	N	VAL	D	121	-51.280	5.928	101.344

ATOM	4432	CA	VAL D 121	-52.046	4.959	102.105
ATOM	4433	C	VAL D 121	-52.691	5.788	103.184
ATOM	4434	O	VAL D 121	-51.994	6.393	104.021
ATOM	4435	CB	VAL D 121	-51.186	3.885	102.776
ATOM	4436	CG1	VAL D 121	-52.094	2.891	103.491
ATOM	4437	CG2	VAL D 121	-50.324	3.172	101.738
ATOM	4438	H	VAL D 121	-50.658	6.647	101.877
ATOM	4439	N	VAL D 122	-54.010	5.896	103.108
ATOM	4440	CA	VAL D 122	-54.739	6.669	104.092
ATOM	4441	C	VAL D 122	-55.610	5.751	104.936
ATOM	4442	O	VAL D 122	-56.662	5.298	104.485
ATOM	4443	CB	VAL D 122	-55.605	7.728	103.424
ATOM	4444	CG1	VAL D 122	-56.111	8.775	104.418
ATOM	4445	CG2	VAL D 122	-54.860	8.505	102.341
ATOM	4446	H	VAL D 122	-54.549	5.401	102.300
ATOM	4447	N	SER D 123	-55.124	5.416	106.128
ATOM	4448	CA	SER D 123	-55.878	4.569	107.050
ATOM	4449	C	SER D 123	-56.833	5.509	107.775
ATOM	4450	O	SER D 123	-57.192	6.549	107.228
ATOM	4451	CB	SER D 123	-54.942	3.864	108.047
ATOM	4452	OG	SER D 123	-54.245	4.786	108.871
ATOM	4453	H	SER D 123	-54.141	5.783	106.425
ATOM	4454	HG	SER D 123	-53.597	4.242	109.558
ATOM	4455	N	ASN D 124	-57.229	5.177	109.002
ATOM	4456	CA	ASN D 124	-58.133	6.042	109.761
ATOM	4457	C	ASN D 124	-58.091	5.690	111.243
ATOM	4458	O	ASN D 124	-57.566	4.641	111.620
ATOM	4459	CB	ASN D 124	-59.575	5.949	109.219
ATOM	4460	CG	ASN D 124	-60.395	4.854	109.882
ATOM	4461	OD1	ASN D 124	-59.914	3.750	110.119
ATOM	4462	ND2	ASN D 124	-61.645	5.164	110.185
ATOM	4463	H	ASN D 124	-56.876	4.247	109.448
ATOM	4464	HD2	ASN D 124	-62.129	4.306	110.652
ATOM	4465	HD2	ASN D 124	-62.119	6.127	109.996
ATOM	4466	N	PRO D 125	-58.536	6.617	112.110
ATOM	4467	CA	PRO D 125	-58.551	6.384	113.559
ATOM	4468	C	PRO D 125	-59.622	5.346	113.923
ATOM	4469	O	PRO D 125	-60.583	5.638	114.633
ATOM	4470	CB	PRO D 125	-58.875	7.772	114.115
ATOM	4471	CG	PRO D 125	-58.293	8.707	113.066
ATOM	4472	CD	PRO D 125	-58.773	8.043	111.810
ATOM	4473	N	GLN D 126	-59.427	4.142	113.397
ATOM	4474	CA	GLN D 126	-60.299	2.989	113.563
ATOM	4475	C	GLN D 126	-61.392	2.997	114.638
ATOM	4476	O	GLN D 126	-62.574	3.155	114.312
ATOM	4477	CB	GLN D 126	-59.431	1.732	113.672
ATOM	4478	CG	GLN D 126	-58.195	1.924	114.550
ATOM	4479	CD	GLN D 126	-56.928	1.407	113.900
ATOM	4480	OE1	GLN D 126	-56.575	1.818	112.795
ATOM	4481	NE2	GLN D 126	-56.231	0.505	114.586
ATOM	4482	H	GLN D 126	-58.536	4.007	112.784
ATOM	4483	HE2	GLN D 126	-55.349	0.215	114.015
ATOM	4484	HE2	GLN D 126	-56.501	0.115	115.568
ATOM	4485	N	ASN D 127	-60.997	2.842	115.902
ATOM	4486	CA	ASN D 127	-61.936	2.785	117.027
ATOM	4487	C	ASN D 127	-61.883	4.023	117.944
ATOM	4488	OCT	ASN D 127	-62.588	4.014	118.980
ATOM	4489	CB	ASN D 127	-61.665	1.516	117.849
ATOM	4490	CG	ASN D 127	-62.941	0.758	118.220
ATOM	4491	OD1	ASN D 127	-63.864	0.615	117.409
ATOM	4492	ND2	ASN D 127	-62.973	0.225	119.438
ATOM	4493	OCT	ASN D 127	-61.150	4.990	117.627
ATOM	4494	H	ASN D 127	-59.930	2.754	116.108

ATOM	4495	HD2	ASN	D	127	-63.924	-0.286	119.587
ATOM	4496	HD2	ASN	D	127	-62.170	0.286	120.173

TER

REMARK compound 9a docked

ATOM	1	C11	THI	A	9	-44.079	0.542	98.310
ATOM	2	C12	THI	A	9	-45.005	-0.526	98.367
ATOM	3	C13	THI	A	9	-45.122	-1.020	99.686
ATOM	4	C14	THI	A	9	-44.320	-0.354	100.618
ATOM	5	S15	THI	A	9	-43.418	0.864	99.850
ATOM	6	N17	THI	A	9	-45.750	-1.054	97.213
ATOM	7	H18	THI	A	9	-45.608	-0.648	96.309
ATOM	8	H19	THI	A	9	-46.393	-1.813	97.313
ATOM	9	C28	THI	A	9	-45.997	-2.115	100.056
ATOM	10	N29	THI	A	9	-46.699	-2.992	100.358
ATOM	11	C21	THI	A	9	-43.712	1.262	97.186
ATOM	12	O22	THI	A	9	-42.642	1.155	96.669
ATOM	13	O23	THI	A	9	-44.632	2.087	96.712
ATOM	14	C24	THI	A	9	-44.351	2.781	95.496
ATOM	15	O16	THI	A	9	-44.240	-0.636	102.016
ATOM	16	C4	THI	A	9	-43.077	-1.258	102.440
ATOM	17	C3	THI	A	9	-43.028	-2.645	102.402
ATOM	18	C2	THI	A	9	-41.890	-3.320	102.827
ATOM	19	C1	THI	A	9	-40.794	-2.606	103.295
ATOM	20	C6	THI	A	9	-40.840	-1.217	103.340
ATOM	21	C5	THI	A	9	-41.979	-0.545	102.914

TER

REMARK compound 10c docked

ATOM	1	C11	THI	C	10	-42.032	1.554	106.653
ATOM	2	C12	THI	C	10	-40.695	1.961	106.415
ATOM	3	C13	THI	C	10	-40.262	1.726	105.069
ATOM	4	C14	THI	C	10	-41.275	1.059	104.349
ATOM	5	S15	THI	C	10	-42.677	0.820	105.267
ATOM	6	N17	THI	C	10	-39.862	2.532	107.492
ATOM	7	H18	THI	C	10	-40.272	2.676	108.396
ATOM	8	H19	THI	C	10	-38.897	2.755	107.377
ATOM	9	C21	THI	C	10	-42.738	1.674	107.854
ATOM	10	O22	THI	C	10	-42.303	1.145	108.871
ATOM	11	C25	THI	C	10	-44.019	2.401	107.844
ATOM	12	C30	THI	C	10	-43.987	3.788	107.736
ATOM	13	C29	THI	C	10	-45.166	4.522	107.706
ATOM	14	C28	THI	C	10	-46.391	3.872	107.779
ATOM	15	C27	THI	C	10	-46.434	2.485	107.876
ATOM	16	C26	THI	C	10	-45.253	1.753	107.905
ATOM	17	C23	THI	C	10	-39.038	2.072	104.489
ATOM	18	O36	THI	C	10	-38.123	1.265	104.432
ATOM	19	N24	THI	C	10	-38.893	3.294	103.975
ATOM	20	H37	THI	C	10	-39.650	3.937	103.951
ATOM	21	H38	THI	C	10	-37.997	3.513	103.597
ATOM	22	O16	THI	C	10	-41.186	0.605	102.996
ATOM	23	C4	THI	C	10	-41.453	-0.736	102.787
ATOM	24	C3	THI	C	10	-40.411	-1.642	102.926
ATOM	25	C2	THI	C	10	-40.629	-2.999	102.715
ATOM	26	C1	THI	C	10	-41.894	-3.451	102.362
ATOM	27	C6	THI	C	10	-42.939	-2.546	102.218
ATOM	28	C5	THI	C	10	-42.718	-1.190	102.429

TER

REMARK compound 10a docked

ATOM	1	C11	THI	A	10	-42.073	1.614	106.653
ATOM	2	C12	THI	A	10	-40.722	1.957	106.414
ATOM	3	C13	THI	A	10	-40.308	1.688	105.068
ATOM	4	C14	THI	A	10	-41.364	1.079	104.355
ATOM	5	S15	THI	A	10	-42.774	0.916	105.281
ATOM	6	N17	THI	A	10	-39.872	2.495	107.495

ATOM	7	H18	THI	A	10	-40.287	2.665	108.392
ATOM	8	H19	THI	A	10	-38.898	2.675	107.386
ATOM	9	C21	THI	A	10	-42.784	1.779	107.830
ATOM	10	O22	THI	A	10	-43.565	2.664	108.002
ATOM	11	O23	THI	A	10	-42.544	0.877	108.769
ATOM	12	C24	THI	A	10	-42.904	1.188	110.115
ATOM	13	C28	THI	A	10	-39.069	1.960	104.485
ATOM	14	O30	THI	A	10	-38.158	1.146	104.537
ATOM	15	N29	THI	A	10	-38.901	3.117	103.844
ATOM	16	H31	THI	A	10	-39.654	3.756	103.737
ATOM	17	H32	THI	A	10	-37.997	3.289	103.465
ATOM	18	O16	THI	A	10	-41.305	0.627	102.999
ATOM	19	C4	THI	A	10	-41.481	-0.730	102.791
ATOM	20	C3	THI	A	10	-42.744	-1.173	102.428
ATOM	21	C2	THI	A	10	-42.983	-2.525	102.218
ATOM	22	C1	THI	A	10	-41.952	-3.444	102.374
ATOM	23	C6	THI	A	10	-40.685	-3.008	102.743
ATOM	24	C5	THI	A	10	-40.451	-1.653	102.953

TER

REMARK compound 9e docked

ATOM	1	C11	THI	E	9	-44.444	0.677	101.937
ATOM	2	C12	THI	E	9	-45.144	-0.458	101.897
ATOM	3	C13	THI	E	9	-45.368	-0.938	100.527
ATOM	4	C14	THI	E	9	-44.884	-0.190	99.495
ATOM	5	S15	THI	E	9	-44.102	1.189	100.309
ATOM	6	N17	THI	E	9	-45.655	-1.160	103.087
ATOM	7	H18	THI	E	9	-45.474	-0.758	103.989
ATOM	8	H19	THI	E	9	-46.177	-2.010	103.015
ATOM	9	C23	THI	E	9	-46.090	-2.179	100.367
ATOM	10	N24	THI	E	9	-46.674	-3.179	100.284
ATOM	11	C21	THI	E	9	-44.040	1.394	103.188
ATOM	12	O22	THI	E	9	-44.742	2.348	103.515
ATOM	13	C25	THI	E	9	-42.842	0.963	103.928
ATOM	14	C30	THI	E	9	-41.610	1.498	103.561
ATOM	15	C29	THI	E	9	-40.452	1.130	104.234
ATOM	16	C28	THI	E	9	-40.518	0.226	105.286
ATOM	17	C27	THI	E	9	-41.743	-0.308	105.664
ATOM	18	C26	THI	E	9	-42.902	0.061	104.991
ATOM	19	O16	THI	E	9	-45.245	-0.875	98.376
ATOM	20	C4	THI	E	9	-44.519	-0.878	97.196
ATOM	21	C3	THI	E	9	-44.136	-2.110	96.682
ATOM	22	C2	THI	E	9	-43.406	-2.183	95.502
ATOM	23	C1	THI	E	9	-43.055	-1.020	94.828
ATOM	24	C6	THI	E	9	-43.437	0.215	95.338
ATOM	25	C5	THI	E	9	-44.167	0.287	96.519

TER

REMARK compound 9g docked

ATOM	1	C11	THI	G	9	-48.508	0.285	105.568
ATOM	2	C12	THI	G	9	-47.853	-0.775	106.085
ATOM	3	C13	THI	G	9	-46.403	-0.719	105.839
ATOM	4	C14	THI	G	9	-46.045	0.388	105.171
ATOM	5	S15	THI	G	9	-47.412	1.414	104.779
ATOM	6	N17	THI	G	9	-48.491	-1.806	106.755
ATOM	7	H18	THI	G	9	-48.057	-2.617	107.194
ATOM	8	H19	THI	G	9	-49.510	-1.812	106.891
ATOM	9	C7	THI	G	9	-45.466	-1.724	106.247
ATOM	10	N2	THI	G	9	-44.703	-2.533	106.575
ATOM	11	C21	THI	G	9	-49.993	0.480	105.623
ATOM	12	O22	THI	G	9	-50.599	0.287	104.572
ATOM	13	C25	THI	G	9	-50.616	0.929	106.877
ATOM	14	C30	THI	G	9	-51.282	-0.013	107.663
ATOM	15	C29	THI	G	9	-51.898	0.368	108.850
ATOM	16	C28	THI	G	9	-51.832	1.700	109.238

REMARK

REMARK Human Transthyretin (TTR) Tetramer

REMARK based on leta.pdb

REMARK

REMARK showing a second binding site outside the

REMARK channel of comparable stability for ligand

REMARK interaction

REMARK

REMARK demonstrated for the TTR complex with compound 9e (Table 1)

REMARK

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REMARK

ATOM	1	N	GLY	1	1	-53.953	-10.518	58.498
ATOM	2	CA	GLY	1	1	-54.621	-11.331	59.520
ATOM	3	C	GLY	1	1	-53.587	-12.144	60.304
ATOM	4	O	GLY	1	1	-52.444	-11.705	60.470
ATOM	5	H1	GLY	1	1	-54.698	-9.945	57.946
ATOM	6	H2	GLY	1	1	-53.414	-11.170	57.811
ATOM	7	H3	GLY	1	1	-53.251	-9.837	58.978
ATOM	8	N	PRO	1	2	-54.042	-13.299	60.764
ATOM	9	CA	PRO	1	2	-53.243	-14.251	61.535
ATOM	10	C	PRO	1	2	-51.822	-14.453	61.080
ATOM	11	O	PRO	1	2	-51.012	-13.499	61.084
ATOM	12	CB	PRO	1	2	-54.104	-15.519	61.417
ATOM	13	CG	PRO	1	2	-55.513	-15.008	61.503
ATOM	14	CD	PRO	1	2	-55.496	-13.632	60.877
ATOM	15	N	THR	1	3	-51.459	-15.680	60.745
ATOM	16	CA	THR	1	3	-50.193	-16.062	60.134
ATOM	17	C	THR	1	3	-49.684	-17.440	60.533
ATOM	18	O	THR	1	3	-49.596	-18.300	59.618
ATOM	19	CB	THR	1	3	-49.048	-14.984	60.226
ATOM	20	OG1	THR	1	3	-49.491	-13.828	59.448
ATOM	21	CG2	THR	1	3	-47.699	-15.520	59.712
ATOM	22	H	THR	1	3	-52.174	-16.479	60.942
ATOM	23	HG1	THR	1	3	-48.727	-13.052	59.482
ATOM	24	N	GLY	1	4	-49.301	-17.675	61.770
ATOM	25	CA	GLY	1	4	-48.903	-18.960	62.261
ATOM	26	C	GLY	1	4	-47.579	-19.275	62.846
ATOM	27	O	GLY	1	4	-47.144	-20.460	62.685
ATOM	28	H	GLY	1	4	-49.287	-16.837	62.467
ATOM	29	N	THR	1	5	-46.891	-18.358	63.507
ATOM	30	CA	THR	1	5	-45.605	-18.595	64.164
ATOM	31	C	THR	1	5	-44.609	-17.456	64.049
ATOM	32	O	THR	1	5	-43.383	-17.693	64.211
ATOM	33	CB	THR	1	5	-44.931	-19.950	63.679
ATOM	34	OG1	THR	1	5	-43.950	-20.292	64.703
ATOM	35	CG2	THR	1	5	-44.316	-19.841	62.283
ATOM	36	H	THR	1	5	-47.312	-17.355	63.567
ATOM	37	HG1	THR	1	5	-43.447	-21.219	64.429
ATOM	38	N	GLY	1	6	-45.091	-16.249	63.814
ATOM	39	CA	GLY	1	6	-44.238	-15.110	63.569
ATOM	40	C	GLY	1	6	-44.636	-13.759	64.036
ATOM	41	O	GLY	1	6	-43.954	-13.236	64.945
ATOM	42	H	GLY	1	6	-46.172	-16.108	63.806
ATOM	43	N	GLU	1	7	-45.674	-13.140	63.467
ATOM	44	CA	GLU	1	7	-46.051	-11.770	63.862
ATOM	45	C	GLU	1	7	-47.175	-11.144	63.094
ATOM	46	O	GLU	1	7	-46.983	-10.239	62.245
ATOM	47	CB	GLU	1	7	-44.779	-10.892	63.682
ATOM	48	CG	GLU	1	7	-43.939	-11.318	62.485
ATOM	49	CD	GLU	1	7	-42.528	-10.887	62.366
ATOM	50	OE1	GLU	1	7	-42.154	-9.732	62.454
ATOM	51	OE2	GLU	1	7	-41.755	-11.855	62.143

ATOM	52	H	GLU	1	7	-46.252	-13.656	62.700
ATOM	53	N	SER	1	8	-48.386	-11.585	63.388
ATOM	54	CA	SER	1	8	-49.634	-11.118	62.790
ATOM	55	C	SER	1	8	-49.748	-9.596	62.761
ATOM	56	O	SER	1	8	-49.196	-8.949	61.851
ATOM	57	CB	SER	1	8	-50.842	-11.705	63.510
ATOM	58	OG	SER	1	8	-51.999	-10.911	63.294
ATOM	59	H	SER	1	8	-48.460	-12.366	64.144
ATOM	60	HG	SER	1	8	-52.846	-11.352	63.819
ATOM	61	N	LYS	1	9	-50.488	-9.061	63.716
ATOM	62	CA	LYS	1	9	-50.647	-7.591	63.839
ATOM	63	C	LYS	1	9	-49.723	-7.180	65.012
ATOM	64	O	LYS	1	9	-49.700	-6.069	65.516
ATOM	65	CB	LYS	1	9	-52.041	-7.136	64.134
ATOM	66	CG	LYS	1	9	-53.182	-7.983	63.571
ATOM	67	CD	LYS	1	9	-54.422	-7.819	64.449
ATOM	68	CE	LYS	1	9	-54.143	-8.170	65.896
ATOM	69	NZ	LYS	1	9	-53.643	-9.569	65.994
ATOM	70	H	LYS	1	9	-50.993	-9.713	64.429
ATOM	71	HZ1	LYS	1	9	-53.445	-9.812	67.038
ATOM	72	HZ2	LYS	1	9	-52.724	-9.668	65.417
ATOM	73	HZ3	LYS	1	9	-54.395	-10.252	65.599
ATOM	74	N	CYS	1	10	-48.959	-8.202	65.361
ATOM	75	CA	CYS	1	10	-48.086	-8.215	66.533
ATOM	76	C	CYS	1	10	-49.083	-8.191	67.724
ATOM	77	O	CYS	1	10	-49.416	-7.121	68.221
ATOM	78	CB	CYS	1	10	-47.005	-7.194	66.609
ATOM	79	SG	CYS	1	10	-45.373	-7.897	66.170
ATOM	80	H	CYS	1	10	-48.983	-9.093	64.733
ATOM	81	N	PRO	1	11	-49.484	-9.410	68.041
ATOM	82	CA	PRO	1	11	-50.471	-9.625	69.104
ATOM	83	C	PRO	1	11	-49.802	-9.645	70.465
ATOM	84	O	PRO	1	11	-50.490	-9.479	71.463
ATOM	85	CB	PRO	1	11	-51.171	-10.904	68.718
ATOM	86	CG	PRO	1	11	-50.125	-11.684	67.984
ATOM	87	CD	PRO	1	11	-49.298	-10.638	67.245
ATOM	88	N	LEU	1	12	-48.488	-9.824	70.455
ATOM	89	CA	LEU	1	12	-47.723	-9.887	71.704
ATOM	90	C	LEU	1	12	-46.389	-9.142	71.558
ATOM	91	O	LEU	1	12	-45.567	-9.609	70.792
ATOM	92	CB	LEU	1	12	-47.555	-11.337	72.121
ATOM	93	CG	LEU	1	12	-46.842	-11.616	73.444
ATOM	94	CD1	LEU	1	12	-47.547	-10.941	74.606
ATOM	95	CD2	LEU	1	12	-46.709	-13.119	73.645
ATOM	96	H	LEU	1	12	-47.968	-9.926	69.503
ATOM	97	N	MET	1	13	-46.292	-8.075	72.347
ATOM	98	CA	MET	1	13	-45.037	-7.273	72.322
ATOM	99	C	MET	1	13	-44.469	-7.126	73.731
ATOM	100	O	MET	1	13	-45.252	-7.084	74.694
ATOM	101	CB	MET	1	13	-45.351	-5.974	71.635
ATOM	102	CG	MET	1	13	-45.805	-6.162	70.213
ATOM	103	SD	MET	1	13	-46.812	-4.700	69.806
ATOM	104	CE	MET	1	13	-48.413	-5.230	70.466
ATOM	105	H	MET	1	13	-47.118	-7.793	73.000
ATOM	106	N	VAL	1	14	-43.150	-7.065	73.852
ATOM	107	CA	VAL	1	14	-42.517	-6.916	75.175
ATOM	108	C	VAL	1	14	-41.527	-5.737	75.061
ATOM	109	O	VAL	1	14	-40.789	-5.676	74.051
ATOM	110	CB	VAL	1	14	-41.879	-8.175	75.738
ATOM	111	CG1	VAL	1	14	-41.354	-7.945	77.192
ATOM	112	CG2	VAL	1	14	-42.704	-9.453	75.734
ATOM	113	H	VAL	1	14	-42.525	-7.124	72.961
ATOM	114	N	LYS	1	15	-41.600	-4.892	76.072

ATOM	115	CA	LYS	1	15	-40.744	-3.714	76.217
ATOM	116	C	LYS	1	15	-40.120	-3.625	77.596
ATOM	117	O	LYS	1	15	-40.801	-3.577	78.624
ATOM	118	CB	LYS	1	15	-41.548	-2.435	75.886
ATOM	119	CG	LYS	1	15	-40.858	-1.160	76.346
ATOM	120	CD	LYS	1	15	-40.708	-0.120	75.254
ATOM	121	CE	LYS	1	15	-39.322	0.539	75.330
ATOM	122	NZ	LYS	1	15	-39.108	1.297	74.054
ATOM	123	H	LYS	1	15	-42.342	-5.083	76.847
ATOM	124	HZ1	LYS	1	15	-38.130	1.778	74.077
ATOM	125	HZ2	LYS	1	15	-39.883	2.055	73.946
ATOM	126	HZ3	LYS	1	15	-39.153	0.608	73.210
ATOM	127	N	VAL	1	16	-38.762	-3.563	77.616
ATOM	128	CA	VAL	1	16	-38.071	-3.547	78.923
ATOM	129	C	VAL	1	16	-37.182	-2.293	79.027
ATOM	130	O	VAL	1	16	-36.414	-2.003	78.092
ATOM	131	CB	VAL	1	16	-37.256	-4.839	79.121
ATOM	132	CG1	VAL	1	16	-36.767	-4.992	80.575
ATOM	133	CG2	VAL	1	16	-37.916	-6.135	78.686
ATOM	134	H	VAL	1	16	-38.194	-3.526	76.686
ATOM	135	N	LEU	1	17	-37.271	-1.609	80.134
ATOM	136	CA	LEU	1	17	-36.508	-0.417	80.481
ATOM	137	C	LEU	1	17	-35.645	-0.634	81.741
ATOM	138	O	LEU	1	17	-36.021	-1.409	82.664
ATOM	139	CB	LEU	1	17	-37.520	0.723	80.676
ATOM	140	CG	LEU	1	17	-38.334	1.296	79.553
ATOM	141	CD1	LEU	1	17	-38.858	2.689	79.924
ATOM	142	CD2	LEU	1	17	-37.467	1.419	78.272
ATOM	143	H	LEU	1	17	-37.987	-1.965	80.874
ATOM	144	N	ASP	1	18	-34.532	0.019	81.778
ATOM	145	CA	ASP	1	18	-33.552	0.056	82.881
ATOM	146	C	ASP	1	18	-33.636	1.406	83.601
ATOM	147	O	ASP	1	18	-33.309	2.487	83.027
ATOM	148	CB	ASP	1	18	-32.168	-0.179	82.275
ATOM	149	CG	ASP	1	18	-31.023	-0.243	83.232
ATOM	150	OD1	ASP	1	18	-31.130	0.362	84.297
ATOM	151	OD2	ASP	1	18	-30.022	-0.903	82.890
ATOM	152	H	ASP	1	18	-34.290	0.611	80.895
ATOM	153	N	ALA	1	19	-34.099	1.325	84.856
ATOM	154	CA	ALA	1	19	-34.277	2.451	85.752
ATOM	155	C	ALA	1	19	-32.970	2.930	86.387
ATOM	156	O	ALA	1	19	-32.982	4.028	87.006
ATOM	157	CB	ALA	1	19	-35.295	2.155	86.835
ATOM	158	H	ALA	1	19	-34.364	0.336	85.232
ATOM	159	N	VAL	1	20	-31.909	2.217	86.232
ATOM	160	CA	VAL	1	20	-30.597	2.563	86.805
ATOM	161	C	VAL	1	20	-29.846	3.436	85.791
ATOM	162	O	VAL	1	20	-29.285	4.455	86.194
ATOM	163	CB	VAL	1	20	-29.804	1.336	87.226
ATOM	164	CG1	VAL	1	20	-28.299	1.653	87.442
ATOM	165	CG2	VAL	1	20	-30.301	0.666	88.489
ATOM	166	H	VAL	1	20	-31.986	1.303	85.643
ATOM	167	N	ARG	1	21	-29.876	3.034	84.531
ATOM	168	CA	ARG	1	21	-29.144	3.727	83.456
ATOM	169	C	ARG	1	21	-29.941	4.714	82.617
ATOM	170	O	ARG	1	21	-29.408	5.509	81.812
ATOM	171	CB	ARG	1	21	-28.611	2.611	82.520
ATOM	172	CG	ARG	1	21	-27.391	1.901	83.094
ATOM	173	CD	ARG	1	21	-27.243	0.493	82.639
ATOM	174	NE	ARG	1	21	-27.542	0.300	81.219
ATOM	175	CZ	ARG	1	21	-27.278	-0.882	80.643
ATOM	176	NH1	ARG	1	21	-26.729	-1.876	81.351
ATOM	177	NH2	ARG	1	21	-27.570	-1.104	79.376

ATOM	178	H	ARG	1	21	-30.466	2.152	84.278
ATOM	179	HE	ARG	1	21	-27.975	1.111	80.634
ATOM	180	HH1	ARG	1	21	-26.594	-2.747	80.709
ATOM	181	HH1	ARG	1	21	-26.460	-1.824	82.406
ATOM	182	HH2	ARG	1	21	-27.276	-2.119	79.108
ATOM	183	HH2	ARG	1	21	-28.034	-0.384	78.702
ATOM	184	N	GLY	1	22	-31.253	4.642	82.757
ATOM	185	CA	GLY	1	22	-32.181	5.496	82.017
ATOM	186	C	GLY	1	22	-32.113	5.126	80.527
ATOM	187	O	GLY	1	22	-31.958	6.014	79.662
ATOM	188	H	GLY	1	22	-31.662	3.913	83.456
ATOM	189	N	SER	1	23	-32.248	3.849	80.263
ATOM	190	CA	SER	1	23	-32.132	3.337	78.869
ATOM	191	C	SER	1	23	-32.985	2.115	78.682
ATOM	192	O	SER	1	23	-33.464	1.529	79.676
ATOM	193	CB	SER	1	23	-30.639	2.993	78.660
ATOM	194	OG	SER	1	23	-30.406	1.654	79.126
ATOM	195	H	SER	1	23	-32.450	3.151	81.076
ATOM	196	HG	SER	1	23	-29.356	1.398	78.984
ATOM	197	N	PRO	1	24	-33.165	1.722	77.430
ATOM	198	CA	PRO	1	24	-33.832	0.452	77.117
ATOM	199	C	PRO	1	24	-32.930	-0.652	77.688
ATOM	200	O	PRO	1	24	-31.682	-0.455	77.862
ATOM	201	CB	PRO	1	24	-34.021	0.430	75.632
ATOM	202	CG	PRO	1	24	-33.443	1.677	75.092
ATOM	203	CD	PRO	1	24	-32.879	2.520	76.208
ATOM	204	N	ALA	1	25	-33.527	-1.740	78.016
ATOM	205	CA	ALA	1	25	-32.785	-2.927	78.553
ATOM	206	C	ALA	1	25	-32.563	-3.787	77.313
ATOM	207	O	ALA	1	25	-33.513	-4.360	76.755
ATOM	208	CB	ALA	1	25	-33.540	-3.582	79.690
ATOM	209	H	ALA	1	25	-34.609	-1.803	77.900
ATOM	210	N	ILE	1	26	-31.322	-3.817	76.850
ATOM	211	CA	ILE	1	26	-30.907	-4.520	75.649
ATOM	212	C	ILE	1	26	-30.329	-5.898	75.915
ATOM	213	O	ILE	1	26	-29.695	-6.108	76.953
ATOM	214	CB	ILE	1	26	-29.872	-3.600	74.875
ATOM	215	CG1	ILE	1	26	-30.524	-2.227	74.601
ATOM	216	CG2	ILE	1	26	-29.318	-4.271	73.609
ATOM	217	CD1	ILE	1	26	-29.428	-1.139	74.316
ATOM	218	H	ILE	1	26	-30.559	-3.276	77.410
ATOM	219	N	ASN	1	27	-30.649	-6.813	75.027
ATOM	220	CA	ASN	1	27	-30.258	-8.207	75.020
ATOM	221	C	ASN	1	27	-30.810	-8.983	76.214
ATOM	222	O	ASN	1	27	-30.161	-9.871	76.761
ATOM	223	CB	ASN	1	27	-28.704	-8.335	74.923
ATOM	224	CG	ASN	1	27	-28.264	-8.018	73.495
ATOM	225	OD1	ASN	1	27	-27.199	-7.422	73.288
ATOM	226	ND2	ASN	1	27	-29.064	-8.410	72.501
ATOM	227	H	ASN	1	27	-31.279	-6.485	74.200
ATOM	228	HD2	ASN	1	27	-28.626	-8.119	71.547
ATOM	229	HD2	ASN	1	27	-30.009	-8.939	72.625
ATOM	230	N	VAL	1	28	-32.009	-8.632	76.634
ATOM	231	CA	VAL	1	28	-32.648	-9.329	77.759
ATOM	232	C	VAL	1	28	-33.369	-10.543	77.139
ATOM	233	O	VAL	1	28	-34.189	-10.319	76.214
ATOM	234	CB	VAL	1	28	-33.594	-8.394	78.523
ATOM	235	CG1	VAL	1	28	-34.361	-9.172	79.600
ATOM	236	CG2	VAL	1	28	-32.923	-7.147	79.044
ATOM	237	H	VAL	1	28	-32.533	-7.813	76.142
ATOM	238	N	ALA	1	29	-33.081	-11.699	77.649
ATOM	239	CA	ALA	1	29	-33.672	-12.954	77.170
ATOM	240	C	ALA	1	29	-35.117	-13.036	77.703

ATOM	241	O	ALA	1	29	-35.311	-12.659	78.871
ATOM	242	CB	ALA	1	29	-32.881	-14.159	77.629
ATOM	243	H	ALA	1	29	-32.367	-11.742	78.472
ATOM	244	N	VAL	1	30	-36.019	-13.480	76.866
ATOM	245	CA	VAL	1	30	-37.432	-13.645	77.282
ATOM	246	C	VAL	1	30	-37.921	-15.017	76.784
ATOM	247	O	VAL	1	30	-37.680	-15.402	75.629
ATOM	248	CB	VAL	1	30	-38.349	-12.511	76.767
ATOM	249	CG1	VAL	1	30	-39.831	-12.783	77.067
ATOM	250	CG2	VAL	1	30	-37.985	-11.122	77.249
ATOM	251	H	VAL	1	30	-35.726	-13.733	75.846
ATOM	252	N	HIS	1	31	-38.618	-15.707	77.665
ATOM	253	CA	HIS	1	31	-39.243	-17.017	77.366
ATOM	254	C	HIS	1	31	-40.739	-16.928	77.622
ATOM	255	O	HIS	1	31	-41.161	-16.444	78.711
ATOM	256	CB	HIS	1	31	-38.559	-18.160	78.183
ATOM	257	CG	HIS	1	31	-37.078	-18.276	77.881
ATOM	258	ND1	HIS	1	31	-36.545	-19.251	77.079
ATOM	259	CD2	HIS	1	31	-36.064	-17.495	78.240
ATOM	260	CE1	HIS	1	31	-35.224	-19.062	76.986
ATOM	261	NE2	HIS	1	31	-34.897	-18.015	77.687
ATOM	262	H	HIS	1	31	-38.741	-15.292	78.665
ATOM	263	HD1	HIS	1	31	-37.106	-20.051	76.596
ATOM	264	N	VAL	1	32	-41.548	-17.348	76.684
ATOM	265	CA	VAL	1	32	-43.024	-17.376	76.819
ATOM	266	C	VAL	1	32	-43.472	-18.826	76.860
ATOM	267	O	VAL	1	32	-42.931	-19.634	76.046
ATOM	268	CB	VAL	1	32	-43.693	-16.601	75.673
ATOM	269	CG1	VAL	1	32	-45.198	-16.424	75.917
ATOM	270	CG2	VAL	1	32	-42.995	-15.273	75.383
ATOM	271	H	VAL	1	32	-41.111	-17.698	75.749
ATOM	272	N	PHE	1	33	-44.403	-19.132	77.742
ATOM	273	CA	PHE	1	33	-44.928	-20.501	77.888
ATOM	274	C	PHE	1	33	-46.469	-20.427	77.867
ATOM	275	O	PHE	1	33	-46.997	-19.354	78.186
ATOM	276	CB	PHE	1	33	-44.491	-21.180	79.176
ATOM	277	CG	PHE	1	33	-43.006	-21.174	79.400
ATOM	278	CD1	PHE	1	33	-42.388	-20.055	79.960
ATOM	279	CD2	PHE	1	33	-42.269	-22.296	79.045
ATOM	280	CE1	PHE	1	33	-41.006	-20.053	80.151
ATOM	281	CE2	PHE	1	33	-40.857	-22.305	79.252
ATOM	282	CZ	PHE	1	33	-40.273	-21.173	79.805
ATOM	283	H	PHE	1	33	-44.797	-18.345	78.386
ATOM	284	N	ARG	1	34	-47.051	-21.533	77.503
ATOM	285	CA	ARG	1	34	-48.544	-21.634	77.491
ATOM	286	C	ARG	1	34	-48.917	-22.841	78.327
ATOM	287	O	ARG	1	34	-48.242	-23.904	78.248
ATOM	288	CB	ARG	1	34	-49.086	-21.710	76.066
ATOM	289	CG	ARG	1	34	-50.642	-21.790	76.062
ATOM	290	CD	ARG	1	34	-51.129	-22.109	74.674
ATOM	291	NE	ARG	1	34	-52.605	-22.054	74.674
ATOM	292	CZ	ARG	1	34	-53.397	-23.119	74.732
ATOM	293	NH1	ARG	1	34	-52.905	-24.363	74.764
ATOM	294	NH2	ARG	1	34	-54.723	-22.895	74.790
ATOM	295	H	ARG	1	34	-46.447	-22.390	77.202
ATOM	296	HE	ARG	1	34	-53.076	-21.072	74.624
ATOM	297	HH1	ARG	1	34	-53.726	-25.078	74.809
ATOM	298	HH1	ARG	1	34	-51.846	-24.620	74.747
ATOM	299	HH2	ARG	1	34	-55.251	-23.848	74.833
ATOM	300	HH2	ARG	1	34	-55.196	-21.913	74.792
ATOM	301	N	LYS	1	35	-49.939	-22.706	79.157
ATOM	302	CA	LYS	1	35	-50.354	-23.841	80.034
ATOM	303	C	LYS	1	35	-51.086	-24.843	79.170

ATOM	304	O	LYS	1	35	-52.083	-24.474	78.519
ATOM	305	CB	LYS	1	35	-51.162	-23.300	81.195
ATOM	306	CG	LYS	1	35	-51.115	-24.119	82.492
ATOM	307	CD	LYS	1	35	-51.127	-23.203	83.711
ATOM	308	CE	LYS	1	35	-52.461	-22.509	83.873
ATOM	309	NZ	LYS	1	35	-52.515	-21.684	85.097
ATOM	310	H	LYS	1	35	-50.481	-21.761	79.200
ATOM	311	HZ1	LYS	1	35	-53.492	-21.206	85.170
ATOM	312	HZ2	LYS	1	35	-51.739	-20.920	85.054
ATOM	313	HZ3	LYS	1	35	-52.355	-22.317	85.969
ATOM	314	N	ALA	1	36	-50.605	-26.077	79.124
ATOM	315	CA	ALA	1	36	-51.270	-27.116	78.294
ATOM	316	C	ALA	1	36	-52.423	-27.770	79.056
ATOM	317	O	ALA	1	36	-52.625	-27.495	80.247
ATOM	318	CB	ALA	1	36	-50.274	-28.142	77.788
ATOM	319	H	ALA	1	36	-49.715	-26.333	79.699
ATOM	320	N	ALA	1	37	-53.140	-28.634	78.340
ATOM	321	CA	ALA	1	37	-54.310	-29.329	78.903
ATOM	322	C	ALA	1	37	-53.991	-30.033	80.213
ATOM	323	O	ALA	1	37	-54.803	-29.990	81.151
ATOM	324	CB	ALA	1	37	-54.906	-30.296	77.884
ATOM	325	H	ALA	1	37	-52.853	-28.833	77.308
ATOM	326	N	ASP	1	38	-52.855	-30.670	80.294
ATOM	327	CA	ASP	1	38	-52.389	-31.404	81.470
ATOM	328	C	ASP	1	38	-51.873	-30.502	82.576
ATOM	329	O	ASP	1	38	-51.255	-31.005	83.559
ATOM	330	CB	ASP	1	38	-51.263	-32.401	81.024
ATOM	331	CG	ASP	1	38	-50.008	-31.549	80.790
ATOM	332	OD1	ASP	1	38	-49.784	-31.034	79.695
ATOM	333	OD2	ASP	1	38	-49.297	-31.403	81.800
ATOM	334	H	ASP	1	38	-52.205	-30.655	79.419
ATOM	335	N	ASP	1	39	-52.049	-29.208	82.444
ATOM	336	CA	ASP	1	39	-51.599	-28.245	83.456
ATOM	337	C	ASP	1	39	-50.105	-28.018	83.512
ATOM	338	O	ASP	1	39	-49.636	-27.577	84.604
ATOM	339	CB	ASP	1	39	-52.140	-28.731	84.836
ATOM	340	CG	ASP	1	39	-52.617	-27.540	85.657
ATOM	341	OD1	ASP	1	39	-53.702	-27.007	85.353
ATOM	342	OD2	ASP	1	39	-51.881	-27.159	86.588
ATOM	343	H	ASP	1	39	-52.548	-28.836	81.550
ATOM	344	N	THR	1	40	-49.348	-28.297	82.472
ATOM	345	CA	THR	1	40	-47.902	-27.995	82.474
ATOM	346	C	THR	1	40	-47.648	-26.774	81.574
ATOM	347	O	THR	1	40	-48.505	-26.439	80.726
ATOM	348	CB	THR	1	40	-46.972	-29.191	82.071
ATOM	349	OG1	THR	1	40	-47.266	-29.525	80.679
ATOM	350	CG2	THR	1	40	-47.096	-30.415	82.986
ATOM	351	H	THR	1	40	-49.797	-28.759	81.592
ATOM	352	HG1	THR	1	40	-46.635	-30.356	80.364
ATOM	353	N	TRP	1	41	-46.498	-26.162	81.763
ATOM	354	CA	TRP	1	41	-46.061	-25.035	80.952
ATOM	355	C	TRP	1	41	-45.277	-25.529	79.736
ATOM	356	O	TRP	1	41	-44.155	-26.053	79.986
ATOM	357	CB	TRP	1	41	-45.164	-24.046	81.720
ATOM	358	CG	TRP	1	41	-45.872	-23.366	82.830
ATOM	359	CD1	TRP	1	41	-45.751	-23.583	84.165
ATOM	360	CD2	TRP	1	41	-46.882	-22.351	82.668
ATOM	361	NE1	TRP	1	41	-46.604	-22.753	84.860
ATOM	362	CE2	TRP	1	41	-47.300	-21.983	83.961
ATOM	363	CE3	TRP	1	41	-47.434	-21.717	81.567
ATOM	364	CZ2	TRP	1	41	-48.269	-21.020	84.183
ATOM	365	CZ3	TRP	1	41	-48.403	-20.762	81.791
ATOM	366	CH2	TRP	1	41	-48.818	-20.402	83.072

ATOM	367	H	TRP	1	41	-45.845	-26.515	82.561
ATOM	368	HE1	TRP	1	41	-46.708	-22.715	85.944
ATOM	369	N	GLU	1	42	-45.803	-25.378	78.578
ATOM	370	CA	GLU	1	42	-45.105	-25.748	77.336
ATOM	371	C	GLU	1	42	-44.473	-24.490	76.715
ATOM	372	O	GLU	1	42	-45.115	-23.419	76.729
ATOM	373	CB	GLU	1	42	-46.018	-26.310	76.260
ATOM	374	CG	GLU	1	42	-47.177	-27.268	76.617
ATOM	375	CD	GLU	1	42	-48.022	-27.497	75.379
ATOM	376	OE1	GLU	1	42	-48.861	-26.707	74.982
ATOM	377	OE2	GLU	1	42	-47.709	-28.541	74.774
ATOM	378	H	GLU	1	42	-46.807	-24.958	78.509
ATOM	379	N	PRO	1	43	-43.254	-24.663	76.190
ATOM	380	CA	PRO	1	43	-42.557	-23.614	75.469
ATOM	381	C	PRO	1	43	-43.426	-23.077	74.345
ATOM	382	O	PRO	1	43	-44.078	-23.891	73.650
ATOM	383	CB	PRO	1	43	-41.303	-24.295	74.901
ATOM	384	CG	PRO	1	43	-41.071	-25.456	75.837
ATOM	385	CD	PRO	1	43	-42.499	-25.926	76.190
ATOM	386	N	PHE	1	44	-43.457	-21.759	74.196
ATOM	387	CA	PHE	1	44	-44.336	-21.160	73.152
ATOM	388	C	PHE	1	44	-43.534	-20.268	72.238
ATOM	389	O	PHE	1	44	-43.734	-20.300	71.012
ATOM	390	CB	PHE	1	44	-45.529	-20.482	73.845
ATOM	391	CG	PHE	1	44	-46.454	-19.771	72.918
ATOM	392	CD1	PHE	1	44	-47.489	-20.472	72.300
ATOM	393	CD2	PHE	1	44	-46.300	-18.408	72.654
ATOM	394	CE1	PHE	1	44	-48.354	-19.827	71.414
ATOM	395	CE2	PHE	1	44	-47.154	-17.752	71.774
ATOM	396	CZ	PHE	1	44	-48.187	-18.476	71.165
ATOM	397	H	PHE	1	44	-42.845	-21.120	74.832
ATOM	398	N	ALA	1	45	-42.610	-19.510	72.824
ATOM	399	CA	ALA	1	45	-41.809	-18.555	72.017
ATOM	400	C	ALA	1	45	-40.708	-18.005	72.882
ATOM	401	O	ALA	1	45	-40.901	-18.029	74.118
ATOM	402	CB	ALA	1	45	-42.781	-17.486	71.507
ATOM	403	H	ALA	1	45	-42.441	-19.591	73.897
ATOM	404	N	SER	1	46	-39.601	-17.597	72.289
ATOM	405	CA	SER	1	46	-38.507	-16.931	73.034
ATOM	406	C	SER	1	46	-37.796	-15.961	72.067
ATOM	407	O	SER	1	46	-37.984	-16.048	70.849
ATOM	408	CB	SER	1	46	-37.546	-17.898	73.695
ATOM	409	OG	SER	1	46	-36.914	-18.676	72.658
ATOM	410	H	SER	1	46	-39.488	-17.757	71.217
ATOM	411	HG	SER	1	46	-36.215	-19.382	73.108
ATOM	412	N	GLY	1	47	-37.030	-15.050	72.574
ATOM	413	CA	GLY	1	47	-36.316	-14.004	71.820
ATOM	414	C	GLY	1	47	-35.506	-13.161	72.807
ATOM	415	O	GLY	1	47	-35.572	-13.425	74.013
ATOM	416	H	GLY	1	47	-36.902	-15.056	73.657
ATOM	417	N	LYS	1	48	-34.791	-12.198	72.294
ATOM	418	CA	LYS	1	48	-34.030	-11.242	73.109
ATOM	419	C	LYS	1	48	-34.467	-9.838	72.729
ATOM	420	O	LYS	1	48	-34.831	-9.585	71.593
ATOM	421	CB	LYS	1	48	-32.526	-11.451	72.941
ATOM	422	CG	LYS	1	48	-32.046	-12.547	73.949
ATOM	423	CD	LYS	1	48	-30.535	-12.738	73.746
ATOM	424	CE	LYS	1	48	-30.060	-13.874	74.670
ATOM	425	NZ	LYS	1	48	-28.620	-14.121	74.408
ATOM	426	H	LYS	1	48	-34.772	-12.091	71.209
ATOM	427	HZ1	LYS	1	48	-28.266	-14.924	75.055
ATOM	428	HZ2	LYS	1	48	-28.053	-13.214	74.613
ATOM	429	HZ3	LYS	1	48	-28.484	-14.408	73.366