

ATOM	2948	CA	GLY	3	67	-54.968	22.523	102.787
ATOM	2949	C	GLY	3	67	-54.346	21.654	101.708
ATOM	2950	O	GLY	3	67	-54.672	20.484	101.598
ATOM	2951	H	GLY	3	67	-56.100	20.649	103.374
ATOM	2952	N	ILE	3	68	-53.510	22.271	100.897
ATOM	2953	CA	ILE	3	68	-52.742	21.606	99.824
ATOM	2954	C	ILE	3	68	-51.287	21.587	100.317
ATOM	2955	O	ILE	3	68	-50.784	22.676	100.651
ATOM	2956	CB	ILE	3	68	-52.864	22.361	98.474
ATOM	2957	CG1	ILE	3	68	-54.360	22.436	98.056
ATOM	2958	CG2	ILE	3	68	-51.991	21.758	97.332
ATOM	2959	CD1	ILE	3	68	-54.593	23.052	96.631
ATOM	2960	H	ILE	3	68	-53.377	23.345	101.026
ATOM	2961	N	TYR	3	69	-50.739	20.406	100.362
ATOM	2962	CA	TYR	3	69	-49.382	20.215	100.895
ATOM	2963	C	TYR	3	69	-48.498	19.682	99.794
ATOM	2964	O	TYR	3	69	-49.038	19.011	98.872
ATOM	2965	CB	TYR	3	69	-49.419	19.229	102.089
ATOM	2966	CG	TYR	3	69	-50.172	19.829	103.286
ATOM	2967	CD1	TYR	3	69	-51.558	19.784	103.386
ATOM	2968	CD2	TYR	3	69	-49.441	20.445	104.282
ATOM	2969	CE1	TYR	3	69	-52.199	20.335	104.492
ATOM	2970	CE2	TYR	3	69	-50.063	21.010	105.408
ATOM	2971	CZ	TYR	3	69	-51.444	20.958	105.493
ATOM	2972	OH	TYR	3	69	-52.049	21.514	106.585
ATOM	2973	H	TYR	3	69	-51.297	19.543	99.999
ATOM	2974	HH	TYR	3	69	-51.291	21.944	107.240
ATOM	2975	N	LYS	3	70	-47.244	19.976	99.906
ATOM	2976	CA	LYS	3	70	-46.226	19.513	98.956
ATOM	2977	C	LYS	3	70	-45.081	18.926	99.777
ATOM	2978	O	LYS	3	70	-44.584	19.631	100.679
ATOM	2979	CB	LYS	3	70	-45.685	20.647	98.082
ATOM	2980	CG	LYS	3	70	-44.391	20.251	97.355
ATOM	2981	CD	LYS	3	70	-43.973	21.186	96.276
ATOM	2982	CE	LYS	3	70	-43.407	22.493	96.748
ATOM	2983	NZ	LYS	3	70	-42.869	23.255	95.571
ATOM	2984	H	LYS	3	70	-46.929	20.597	100.745
ATOM	2985	HZ1	LYS	3	70	-42.457	24.205	95.911
ATOM	2986	HZ2	LYS	3	70	-43.674	23.441	94.860
ATOM	2987	HZ3	LYS	3	70	-42.085	22.671	95.088
ATOM	2988	N	VAL	3	71	-44.776	17.688	99.431
ATOM	2989	CA	VAL	3	71	-43.646	16.995	100.128
ATOM	2990	C	VAL	3	71	-42.542	16.990	99.073
ATOM	2991	O	VAL	3	71	-42.786	16.397	98.006
ATOM	2992	CB	VAL	3	71	-44.073	15.619	100.626
ATOM	2993	CG1	VAL	3	71	-42.913	14.837	101.261
ATOM	2994	CG2	VAL	3	71	-45.260	15.677	101.603
ATOM	2995	H	VAL	3	71	-45.339	17.178	98.649
ATOM	2996	N	GLU	3	72	-41.434	17.642	99.403
ATOM	2997	CA	GLU	3	72	-40.298	17.600	98.419
ATOM	2998	C	GLU	3	72	-39.274	16.642	98.991
ATOM	2999	O	GLU	3	72	-38.885	16.817	100.177
ATOM	3000	CB	GLU	3	72	-39.775	18.976	98.202
ATOM	3001	CG	GLU	3	72	-39.085	19.391	96.921
ATOM	3002	CD	GLU	3	72	-38.925	20.871	96.739
ATOM	3003	OE1	GLU	3	72	-37.983	21.507	97.153
ATOM	3004	OE2	GLU	3	72	-39.881	21.424	96.130
ATOM	3005	H	GLU	3	72	-41.352	18.184	100.345
ATOM	3006	N	ILE	3	73	-38.853	15.656	98.235
ATOM	3007	CA	ILE	3	73	-37.830	14.692	98.758
ATOM	3008	C	ILE	3	73	-36.540	15.001	98.008
ATOM	3009	O	ILE	3	73	-36.627	14.926	96.764
ATOM	3010	CB	ILE	3	73	-38.269	13.219	98.532

ATOM	3011	CG1	ILE	3	73	-39.644	12.936	99.166
ATOM	3012	CG2	ILE	3	73	-37.202	12.197	99.068
ATOM	3013	CD1	ILE	3	73	-40.528	11.900	98.449
ATOM	3014	H	ILE	3	73	-39.249	15.537	97.226
ATOM	3015	N	ASP	3	74	-35.447	15.254	98.653
ATOM	3016	CA	ASP	3	74	-34.227	15.644	97.929
ATOM	3017	C	ASP	3	74	-33.489	14.398	97.448
ATOM	3018	O	ASP	3	74	-32.486	14.004	98.100
ATOM	3019	CB	ASP	3	74	-33.342	16.596	98.727
ATOM	3020	CG	ASP	3	74	-32.160	16.970	97.764
ATOM	3021	OD1	ASP	3	74	-32.503	16.993	96.583
ATOM	3022	OD2	ASP	3	74	-31.053	17.234	98.237
ATOM	3023	H	ASP	3	74	-35.430	15.178	99.740
ATOM	3024	N	THR	3	75	-33.940	13.853	96.347
ATOM	3025	CA	THR	3	75	-33.346	12.647	95.739
ATOM	3026	C	THR	3	75	-31.973	12.880	95.143
ATOM	3027	O	THR	3	75	-31.095	11.998	95.214
ATOM	3028	CB	THR	3	75	-34.372	11.991	94.698
ATOM	3029	OG1	THR	3	75	-34.596	12.992	93.677
ATOM	3030	CG2	THR	3	75	-35.675	11.554	95.392
ATOM	3031	H	THR	3	75	-34.798	14.313	95.855
ATOM	3032	HG1	THR	3	75	-35.291	12.604	92.933
ATOM	3033	N	LYS	3	76	-31.757	14.062	94.563
ATOM	3034	CA	LYS	3	76	-30.491	14.411	93.953
ATOM	3035	C	LYS	3	76	-29.278	14.274	94.866
ATOM	3036	O	LYS	3	76	-28.317	13.610	94.405
ATOM	3037	CB	LYS	3	76	-30.426	15.831	93.347
ATOM	3038	CG	LYS	3	76	-29.259	15.768	92.287
ATOM	3039	CD	LYS	3	76	-29.131	17.124	91.592
ATOM	3040	CE	LYS	3	76	-28.649	16.940	90.151
ATOM	3041	NZ	LYS	3	76	-28.795	18.176	89.359
ATOM	3042	H	LYS	3	76	-32.565	14.794	94.547
ATOM	3043	HZ1	LYS	3	76	-28.441	18.001	88.343
ATOM	3044	HZ2	LYS	3	76	-28.207	18.972	89.817
ATOM	3045	HZ3	LYS	3	76	-29.845	18.468	89.333
ATOM	3046	N	SER	3	77	-29.281	14.875	96.025
ATOM	3047	CA	SER	3	77	-28.173	14.795	96.991
ATOM	3048	C	SER	3	77	-27.931	13.381	97.492
ATOM	3049	O	SER	3	77	-26.780	13.014	97.806
ATOM	3050	CB	SER	3	77	-28.417	15.691	98.212
ATOM	3051	OG	SER	3	77	-28.503	17.047	97.828
ATOM	3052	H	SER	3	77	-30.153	15.470	96.293
ATOM	3053	HG	SER	3	77	-28.677	17.665	98.709
ATOM	3054	N	TYR	3	78	-28.973	12.592	97.633
ATOM	3055	CA	TYR	3	78	-28.882	11.196	98.034
ATOM	3056	C	TYR	3	78	-28.061	10.381	97.048
ATOM	3057	O	TYR	3	78	-27.170	9.609	97.489
ATOM	3058	CB	TYR	3	78	-30.318	10.597	98.180
ATOM	3059	CG	TYR	3	78	-30.287	9.113	98.499
ATOM	3060	CD1	TYR	3	78	-29.999	8.712	99.811
ATOM	3061	CD2	TYR	3	78	-30.547	8.137	97.554
ATOM	3062	CE1	TYR	3	78	-29.955	7.373	100.171
ATOM	3063	CE2	TYR	3	78	-30.520	6.788	97.882
ATOM	3064	CZ	TYR	3	78	-30.218	6.413	99.192
ATOM	3065	OH	TYR	3	78	-30.205	5.084	99.456
ATOM	3066	H	TYR	3	78	-29.962	13.006	97.436
ATOM	3067	HH	TYR	3	78	-30.438	4.531	98.546
ATOM	3068	N	TRP	3	79	-28.340	10.522	95.771
ATOM	3069	CA	TRP	3	79	-27.690	9.747	94.707
ATOM	3070	C	TRP	3	79	-26.243	10.216	94.502
ATOM	3071	O	TRP	3	79	-25.350	9.348	94.391
ATOM	3072	CB	TRP	3	79	-28.472	9.694	93.402
ATOM	3073	CG	TRP	3	79	-29.758	8.934	93.476

ATOM	3074	CD1	TRP	3	79	-31.033	9.375	93.309
ATOM	3075	CD2	TRP	3	79	-29.868	7.531	93.751
ATOM	3076	NE1	TRP	3	79	-31.916	8.362	93.440
ATOM	3077	CE2	TRP	3	79	-31.256	7.204	93.730
ATOM	3078	CE3	TRP	3	79	-28.945	6.519	94.020
ATOM	3079	CZ2	TRP	3	79	-31.701	5.930	93.973
ATOM	3080	CZ3	TRP	3	79	-29.392	5.249	94.228
ATOM	3081	CH2	TRP	3	79	-30.778	4.941	94.224
ATOM	3082	H	TRP	3	79	-29.094	11.255	95.487
ATOM	3083	HE1	TRP	3	79	-32.997	8.455	93.331
ATOM	3084	N	LYS	3	80	-26.057	11.491	94.460
ATOM	3085	CA	LYS	3	80	-24.723	12.110	94.282
ATOM	3086	C	LYS	3	80	-23.774	11.593	95.360
ATOM	3087	O	LYS	3	80	-22.602	11.255	95.098
ATOM	3088	CB	LYS	3	80	-24.825	13.613	94.281
ATOM	3089	CG	LYS	3	80	-25.645	14.250	93.186
ATOM	3090	CD	LYS	3	80	-24.860	14.926	92.096
ATOM	3091	CE	LYS	3	80	-24.115	13.972	91.183
ATOM	3092	NZ	LYS	3	80	-24.013	14.589	89.815
ATOM	3093	H	LYS	3	80	-26.923	12.145	94.558
ATOM	3094	HZ1	LYS	3	80	-23.479	13.911	89.149
ATOM	3095	HZ2	LYS	3	80	-23.473	15.533	89.882
ATOM	3096	HZ3	LYS	3	80	-25.014	14.770	89.422
ATOM	3097	N	ALA	3	81	-24.279	11.516	96.578
ATOM	3098	CA	ALA	3	81	-23.545	11.054	97.753
ATOM	3099	C	ALA	3	81	-23.082	9.625	97.578
ATOM	3100	O	ALA	3	81	-22.107	9.205	98.247
ATOM	3101	CB	ALA	3	81	-24.415	11.190	99.002
ATOM	3102	H	ALA	3	81	-25.316	11.820	96.716
ATOM	3103	N	LEU	3	82	-23.736	8.882	96.710
ATOM	3104	CA	LEU	3	82	-23.423	7.505	96.389
ATOM	3105	C	LEU	3	82	-22.535	7.376	95.151
ATOM	3106	O	LEU	3	82	-22.149	6.239	94.836
ATOM	3107	CB	LEU	3	82	-24.739	6.760	96.181
ATOM	3108	CG	LEU	3	82	-25.488	6.184	97.349
ATOM	3109	CD1	LEU	3	82	-25.706	7.247	98.411
ATOM	3110	CD2	LEU	3	82	-26.829	5.667	96.840
ATOM	3111	H	LEU	3	82	-24.580	9.338	96.194
ATOM	3112	N	GLY	3	83	-22.261	8.483	94.475
ATOM	3113	CA	GLY	3	83	-21.434	8.429	93.265
ATOM	3114	C	GLY	3	83	-22.251	8.345	91.995
ATOM	3115	O	GLY	3	83	-21.690	8.168	90.887
ATOM	3116	H	GLY	3	83	-22.653	9.439	94.820
ATOM	3117	N	ILE	3	84	-23.560	8.499	92.113
ATOM	3118	CA	ILE	3	84	-24.481	8.422	90.967
ATOM	3119	C	ILE	3	84	-25.024	9.797	90.633
ATOM	3120	O	ILE	3	84	-25.377	10.605	91.519
ATOM	3121	CB	ILE	3	84	-25.590	7.354	91.265
ATOM	3122	CG1	ILE	3	84	-24.962	5.955	91.429
ATOM	3123	CG2	ILE	3	84	-26.727	7.358	90.201
ATOM	3124	CD1	ILE	3	84	-26.016	4.817	91.658
ATOM	3125	H	ILE	3	84	-23.975	8.689	93.103
ATOM	3126	N	SER	3	85	-25.052	10.091	89.339
ATOM	3127	CA	SER	3	85	-25.639	11.355	88.821
ATOM	3128	C	SER	3	85	-27.041	10.970	88.335
ATOM	3129	O	SER	3	85	-27.148	10.309	87.299
ATOM	3130	CB	SER	3	85	-24.773	11.924	87.707
ATOM	3131	OG	SER	3	85	-25.013	13.328	87.586
ATOM	3132	H	SER	3	85	-24.630	9.380	88.629
ATOM	3133	HG	SER	3	85	-24.393	13.735	86.788
ATOM	3134	N	PRO	3	86	-28.041	11.334	89.121
ATOM	3135	CA	PRO	3	86	-29.433	10.994	88.819
ATOM	3136	C	PRO	3	86	-30.060	11.953	87.825

ATOM	3137	O	PRO	3	86	-29.492	13.013	87.557
ATOM	3138	CB	PRO	3	86	-30.085	11.110	90.204
ATOM	3139	CG	PRO	3	86	-29.389	12.311	90.789
ATOM	3140	CD	PRO	3	86	-27.919	12.063	90.398
ATOM	3141	N	PHE	3	87	-31.203	11.582	87.299
ATOM	3142	CA	PHE	3	87	-32.011	12.338	86.377
ATOM	3143	C	PHE	3	87	-32.783	13.477	87.037
ATOM	3144	O	PHE	3	87	-32.678	14.626	86.596
ATOM	3145	CB	PHE	3	87	-33.015	11.391	85.675
ATOM	3146	CG	PHE	3	87	-33.851	12.091	84.643
ATOM	3147	CD1	PHE	3	87	-33.269	12.559	83.470
ATOM	3148	CD2	PHE	3	87	-35.202	12.282	84.877
ATOM	3149	CE1	PHE	3	87	-34.055	13.210	82.506
ATOM	3150	CE2	PHE	3	87	-36.013	12.920	83.937
ATOM	3151	CZ	PHE	3	87	-35.413	13.383	82.760
ATOM	3152	H	PHE	3	87	-31.581	10.602	87.591
ATOM	3153	N	HIS	3	88	-33.538	13.151	88.093
ATOM	3154	CA	HIS	3	88	-34.428	14.134	88.719
ATOM	3155	C	HIS	3	88	-33.753	15.072	89.713
ATOM	3156	O	HIS	3	88	-32.822	14.650	90.406
ATOM	3157	CB	HIS	3	88	-35.589	13.436	89.512
ATOM	3158	CG	HIS	3	88	-36.269	12.433	88.644
ATOM	3159	ND1	HIS	3	88	-36.045	11.086	88.643
ATOM	3160	CD2	HIS	3	88	-37.223	12.661	87.702
ATOM	3161	CE1	HIS	3	88	-36.812	10.504	87.741
ATOM	3162	NE2	HIS	3	88	-37.537	11.458	87.145
ATOM	3163	H	HIS	3	88	-33.492	12.138	88.494
ATOM	3164	HD1	HIS	3	88	-35.338	10.568	89.291
ATOM	3165	N	GLU	3	89	-34.250	16.283	89.765
ATOM	3166	CA	GLU	3	89	-33.770	17.262	90.774
ATOM	3167	C	GLU	3	89	-34.225	16.849	92.160
ATOM	3168	O	GLU	3	89	-33.452	16.891	93.167
ATOM	3169	CB	GLU	3	89	-34.222	18.685	90.462
ATOM	3170	CG	GLU	3	89	-33.489	19.361	89.253
ATOM	3171	CD	GLU	3	89	-32.006	19.483	89.574
ATOM	3172	OE1	GLU	3	89	-31.655	20.114	90.542
ATOM	3173	OE2	GLU	3	89	-31.248	18.849	88.823
ATOM	3174	H	GLU	3	89	-35.028	16.576	89.060
ATOM	3175	N	HIS	3	90	-35.463	16.456	92.264
ATOM	3176	CA	HIS	3	90	-36.103	16.012	93.491
ATOM	3177	C	HIS	3	90	-37.406	15.292	93.109
ATOM	3178	O	HIS	3	90	-37.751	15.267	91.914
ATOM	3179	CB	HIS	3	90	-36.368	17.134	94.493
ATOM	3180	CG	HIS	3	90	-36.889	18.397	93.889
ATOM	3181	ND1	HIS	3	90	-38.134	18.513	93.341
ATOM	3182	CD2	HIS	3	90	-36.313	19.619	93.766
ATOM	3183	CE1	HIS	3	90	-38.321	19.741	92.876
ATOM	3184	NE2	HIS	3	90	-37.222	20.423	93.125
ATOM	3185	H	HIS	3	90	-36.067	16.460	91.357
ATOM	3186	HD1	HIS	3	90	-38.870	17.710	93.291
ATOM	3187	N	ALA	3	91	-38.011	14.690	94.091
ATOM	3188	CA	ALA	3	91	-39.332	14.061	93.944
ATOM	3189	C	ALA	3	91	-40.312	14.943	94.724
ATOM	3190	O	ALA	3	91	-40.037	15.313	95.861
ATOM	3191	CB	ALA	3	91	-39.354	12.622	94.412
ATOM	3192	H	ALA	3	91	-37.518	14.650	95.063
ATOM	3193	N	GLU	3	92	-41.441	15.281	94.135
ATOM	3194	CA	GLU	3	92	-42.488	16.074	94.738
ATOM	3195	C	GLU	3	92	-43.809	15.324	94.752
ATOM	3196	O	GLU	3	92	-44.110	14.568	93.792
ATOM	3197	CB	GLU	3	92	-42.857	17.360	93.931
ATOM	3198	CG	GLU	3	92	-41.644	18.260	93.704
ATOM	3199	CD	GLU	3	92	-41.451	19.308	94.755

ATOM	3200	OE1	GLU	3	92	-42.088	19.046	95.798
ATOM	3201	OE2	GLU	3	92	-40.767	20.288	94.576
ATOM	3202	H	GLU	3	92	-41.599	14.935	93.114
ATOM	3203	N	VAL	3	93	-44.538	15.532	95.836
ATOM	3204	CA	VAL	3	93	-45.850	14.935	96.035
ATOM	3205	C	VAL	3	93	-46.788	16.101	96.483
ATOM	3206	O	VAL	3	93	-46.571	16.667	97.575
ATOM	3207	CB	VAL	3	93	-45.864	13.777	97.028
ATOM	3208	CG1	VAL	3	93	-47.265	13.272	97.311
ATOM	3209	CG2	VAL	3	93	-44.965	12.592	96.616
ATOM	3210	H	VAL	3	93	-44.138	16.180	96.616
ATOM	3211	N	VAL	3	94	-47.784	16.359	95.695
ATOM	3212	CA	VAL	3	94	-48.741	17.441	95.959
ATOM	3213	C	VAL	3	94	-50.126	16.835	96.136
ATOM	3214	O	VAL	3	94	-50.553	16.135	95.210
ATOM	3215	CB	VAL	3	94	-48.626	18.523	94.879
ATOM	3216	CG1	VAL	3	94	-49.445	19.745	95.128
ATOM	3217	CG2	VAL	3	94	-47.145	18.955	94.725
ATOM	3218	H	VAL	3	94	-47.916	15.750	94.801
ATOM	3219	N	PHE	3	95	-50.772	17.128	97.251
ATOM	3220	CA	PHE	3	95	-52.088	16.555	97.575
ATOM	3221	C	PHE	3	95	-52.859	17.475	98.520
ATOM	3222	O	PHE	3	95	-52.305	18.296	99.220
ATOM	3223	CB	PHE	3	95	-51.949	15.143	98.222
ATOM	3224	CG	PHE	3	95	-51.188	15.169	99.517
ATOM	3225	CD1	PHE	3	95	-49.794	15.339	99.468
ATOM	3226	CD2	PHE	3	95	-51.805	15.042	100.760
ATOM	3227	CE1	PHE	3	95	-49.070	15.377	100.661
ATOM	3228	CE2	PHE	3	95	-51.096	15.078	101.950
ATOM	3229	CZ	PHE	3	95	-49.687	15.245	101.884
ATOM	3230	H	PHE	3	95	-50.312	17.819	97.958
ATOM	3231	N	THR	3	96	-54.198	17.285	98.447
ATOM	3232	CA	THR	3	96	-55.084	17.946	99.407
ATOM	3233	C	THR	3	96	-55.215	17.023	100.614
ATOM	3234	O	THR	3	96	-55.450	15.814	100.482
ATOM	3235	CB	THR	3	96	-56.480	18.323	98.781
ATOM	3236	OG1	THR	3	96	-56.179	19.240	97.703
ATOM	3237	CG2	THR	3	96	-57.407	18.953	99.844
ATOM	3238	H	THR	3	96	-54.615	16.639	97.674
ATOM	3239	HG1	THR	3	96	-57.105	19.547	97.218
ATOM	3240	N	ALA	3	97	-55.011	17.590	101.798
ATOM	3241	CA	ALA	3	97	-55.171	16.828	103.031
ATOM	3242	C	ALA	3	97	-56.352	17.339	103.860
ATOM	3243	O	ALA	3	97	-56.689	18.534	103.846
ATOM	3244	CB	ALA	3	97	-53.908	16.850	103.861
ATOM	3245	H	ALA	3	97	-54.722	18.640	101.848
ATOM	3246	N	ASN	3	98	-56.951	16.428	104.568
ATOM	3247	CA	ASN	3	98	-57.970	16.617	105.568
ATOM	3248	C	ASN	3	98	-59.215	17.390	105.143
ATOM	3249	O	ASN	3	98	-59.772	18.044	106.066
ATOM	3250	CB	ASN	3	98	-57.309	17.387	106.778
ATOM	3251	CG	ASN	3	98	-56.064	16.664	107.249
ATOM	3252	OD1	ASN	3	98	-56.134	15.477	107.590
ATOM	3253	ND2	ASN	3	98	-54.934	17.362	107.275
ATOM	3254	H	ASN	3	98	-56.644	15.398	104.384
ATOM	3255	HD2	ASN	3	98	-54.122	16.726	107.630
ATOM	3256	HD2	ASN	3	98	-54.834	18.408	106.985
ATOM	3257	N	ASP	3	99	-59.613	17.353	103.910
ATOM	3258	CA	ASP	3	99	-60.757	18.146	103.434
ATOM	3259	C	ASP	3	99	-62.102	17.561	103.829
ATOM	3260	O	ASP	3	99	-63.110	18.312	103.742
ATOM	3261	CB	ASP	3	99	-60.578	18.457	101.963
ATOM	3262	CG	ASP	3	99	-60.460	17.260	101.054

ATOM	3263	OD1	ASP	3	99	-59.592	16.381	101.207
ATOM	3264	OD2	ASP	3	99	-61.303	17.257	100.119
ATOM	3265	H	ASP	3	99	-59.081	16.716	103.203
ATOM	3266	N	SER	3	100	-62.174	16.344	104.242
ATOM	3267	CA	SER	3	100	-63.352	15.648	104.751
ATOM	3268	C	SER	3	100	-63.016	15.112	106.156
ATOM	3269	O	SER	3	100	-63.361	13.924	106.350
ATOM	3270	CB	SER	3	100	-63.717	14.413	103.933
ATOM	3271	OG	SER	3	100	-63.835	14.579	102.561
ATOM	3272	H	SER	3	100	-61.250	15.766	104.208
ATOM	3273	HG	SER	3	100	-64.098	13.626	102.101
ATOM	3274	N	GLY	3	101	-62.379	15.867	106.989
ATOM	3275	CA	GLY	3	101	-61.934	15.436	108.306
ATOM	3276	C	GLY	3	101	-60.472	14.958	108.281
ATOM	3277	O	GLY	3	101	-59.922	14.664	107.201
ATOM	3278	H	GLY	3	101	-62.164	16.892	106.688
ATOM	3279	N	PRO	3	102	-59.897	14.887	109.475
ATOM	3280	CA	PRO	3	102	-58.522	14.451	109.684
ATOM	3281	C	PRO	3	102	-58.322	13.013	109.290
ATOM	3282	O	PRO	3	102	-59.161	12.131	109.564
ATOM	3283	CB	PRO	3	102	-58.259	14.681	111.166
ATOM	3284	CG	PRO	3	102	-59.605	14.717	111.815
ATOM	3285	CD	PRO	3	102	-60.528	15.294	110.758
ATOM	3286	N	ARG	3	103	-57.190	12.743	108.653
ATOM	3287	CA	ARG	3	103	-56.824	11.413	108.169
ATOM	3288	C	ARG	3	103	-55.327	11.275	108.483
ATOM	3289	O	ARG	3	103	-54.737	12.334	108.767
ATOM	3290	CB	ARG	3	103	-57.085	11.190	106.682
ATOM	3291	CG	ARG	3	103	-58.506	11.343	106.180
ATOM	3292	CD	ARG	3	103	-59.359	10.149	106.394
ATOM	3293	NE	ARG	3	103	-60.672	10.312	105.751
ATOM	3294	CZ	ARG	3	103	-61.690	10.917	106.388
ATOM	3295	NH1	ARG	3	103	-61.499	11.328	107.634
ATOM	3296	NH2	ARG	3	103	-62.853	11.113	105.782
ATOM	3297	H	ARG	3	103	-56.492	13.562	108.479
ATOM	3298	HE	ARG	3	103	-60.822	9.937	104.738
ATOM	3299	HH1	ARG	3	103	-62.411	11.794	108.007
ATOM	3300	HH1	ARG	3	103	-60.573	11.218	108.198
ATOM	3301	HH2	ARG	3	103	-63.538	11.614	106.465
ATOM	3302	HH2	ARG	3	103	-63.086	10.817	104.760
ATOM	3303	N	ARG	3	104	-54.863	10.046	108.442
ATOM	3304	CA	ARG	3	104	-53.398	9.842	108.637
ATOM	3305	C	ARG	3	104	-52.814	9.528	107.259
ATOM	3306	O	ARG	3	104	-53.415	8.732	106.545
ATOM	3307	CB	ARG	3	104	-53.124	8.807	109.681
ATOM	3308	CG	ARG	3	104	-53.720	9.131	111.061
ATOM	3309	CD	ARG	3	104	-53.180	8.190	112.110
ATOM	3310	NE	ARG	3	104	-53.305	6.814	111.678
ATOM	3311	CZ	ARG	3	104	-53.735	5.795	112.410
ATOM	3312	NH1	ARG	3	104	-54.121	5.915	113.678
ATOM	3313	NH2	ARG	3	104	-53.808	4.594	111.818
ATOM	3314	H	ARG	3	104	-55.528	9.200	108.270
ATOM	3315	HE	ARG	3	104	-53.017	6.593	110.650
ATOM	3316	HH1	ARG	3	104	-54.429	4.942	114.058
ATOM	3317	HH1	ARG	3	104	-54.127	6.844	114.248
ATOM	3318	HH2	ARG	3	104	-54.175	3.858	112.534
ATOM	3319	HH2	ARG	3	104	-53.539	4.386	110.783
ATOM	3320	N	TYR	3	105	-51.692	10.120	106.919
ATOM	3321	CA	TYR	3	105	-51.068	9.965	105.623
ATOM	3322	C	TYR	3	105	-49.651	9.393	105.723
ATOM	3323	O	TYR	3	105	-48.796	9.872	106.428
ATOM	3324	CB	TYR	3	105	-51.023	11.291	104.834
ATOM	3325	CG	TYR	3	105	-52.369	11.935	104.596

ATOM	3326	CD1	TYR	3	105	-52.961	12.683	105.614
ATOM	3327	CD2	TYR	3	105	-53.070	11.819	103.389
ATOM	3328	CE1	TYR	3	105	-54.189	13.303	105.472
ATOM	3329	CE2	TYR	3	105	-54.310	12.435	103.229
ATOM	3330	CZ	TYR	3	105	-54.860	13.173	104.287
ATOM	3331	OH	TYR	3	105	-56.092	13.789	104.181
ATOM	3332	H	TYR	3	105	-51.205	10.764	107.651
ATOM	3333	HH	TYR	3	105	-56.507	13.603	103.191
ATOM	3334	N	THR	3	106	-49.474	8.305	104.944
ATOM	3335	CA	THR	3	106	-48.154	7.686	104.800
ATOM	3336	C	THR	3	106	-47.803	7.952	103.328
ATOM	3337	O	THR	3	106	-48.569	7.513	102.470
ATOM	3338	CB	THR	3	106	-48.097	6.162	105.129
ATOM	3339	OG1	THR	3	106	-48.548	5.976	106.514
ATOM	3340	CG2	THR	3	106	-46.702	5.544	104.900
ATOM	3341	H	THR	3	106	-50.327	7.881	104.414
ATOM	3342	HG1	THR	3	106	-48.517	4.916	106.767
ATOM	3343	N	ILE	3	107	-46.743	8.681	103.108
ATOM	3344	CA	ILE	3	107	-46.232	8.890	101.747
ATOM	3345	C	ILE	3	107	-45.059	7.909	101.576
ATOM	3346	O	ILE	3	107	-44.116	8.064	102.365
ATOM	3347	CB	ILE	3	107	-45.809	10.386	101.566
ATOM	3348	CG1	ILE	3	107	-47.000	11.321	101.882
ATOM	3349	CG2	ILE	3	107	-45.142	10.677	100.190
ATOM	3350	CD1	ILE	3	107	-48.086	11.473	100.818
ATOM	3351	H	ILE	3	107	-46.226	9.143	103.950
ATOM	3352	N	ALA	3	108	-45.105	6.972	100.677
ATOM	3353	CA	ALA	3	108	-43.941	6.082	100.450
ATOM	3354	C	ALA	3	108	-43.335	6.447	99.095
ATOM	3355	O	ALA	3	108	-44.121	6.736	98.180
ATOM	3356	CB	ALA	3	108	-44.335	4.641	100.566
ATOM	3357	H	ALA	3	108	-46.009	6.837	100.084
ATOM	3358	N	ALA	3	109	-42.010	6.445	98.967
ATOM	3359	CA	ALA	3	109	-41.297	6.666	97.701
ATOM	3360	C	ALA	3	109	-40.276	5.551	97.452
ATOM	3361	O	ALA	3	109	-39.616	5.193	98.458
ATOM	3362	CB	ALA	3	109	-40.581	8.001	97.705
ATOM	3363	H	ALA	3	109	-41.414	6.267	99.862
ATOM	3364	N	LEU	3	110	-40.143	5.028	96.259
ATOM	3365	CA	LEU	3	110	-39.136	4.008	95.894
ATOM	3366	C	LEU	3	110	-38.179	4.662	94.884
ATOM	3367	O	LEU	3	110	-38.667	5.119	93.824
ATOM	3368	CB	LEU	3	110	-39.832	2.761	95.369
ATOM	3369	CG	LEU	3	110	-38.899	1.677	94.839
ATOM	3370	CD1	LEU	3	110	-38.154	1.034	96.035
ATOM	3371	CD2	LEU	3	110	-39.661	0.630	94.050
ATOM	3372	H	LEU	3	110	-40.825	5.368	95.479
ATOM	3373	N	LEU	3	111	-36.891	4.695	95.171
ATOM	3374	CA	LEU	3	111	-35.971	5.461	94.344
ATOM	3375	C	LEU	3	111	-34.996	4.603	93.528
ATOM	3376	O	LEU	3	111	-34.419	3.697	94.078
ATOM	3377	CB	LEU	3	111	-35.148	6.388	95.247
ATOM	3378	CG	LEU	3	111	-35.824	7.229	96.294
ATOM	3379	CD1	LEU	3	111	-34.761	8.055	97.030
ATOM	3380	CD2	LEU	3	111	-36.874	8.146	95.684
ATOM	3381	H	LEU	3	111	-36.514	4.144	96.033
ATOM	3382	N	SER	3	112	-34.835	5.049	92.328
ATOM	3383	CA	SER	3	112	-33.839	4.529	91.344
ATOM	3384	C	SER	3	112	-33.312	5.833	90.732
ATOM	3385	O	SER	3	112	-34.008	6.863	90.746
ATOM	3386	CB	SER	3	112	-34.389	3.577	90.320
ATOM	3387	OG	SER	3	112	-34.956	2.399	90.810
ATOM	3388	H	SER	3	112	-35.476	5.869	92.007

ATOM	3389	HG	SER	3	112	-35.317	1.795	89.977
ATOM	3390	N	PRO	3	113	-32.106	5.815	90.197
ATOM	3391	CA	PRO	3	113	-31.491	6.989	89.572
ATOM	3392	C	PRO	3	113	-32.291	7.649	88.485
ATOM	3393	O	PRO	3	113	-32.351	8.889	88.426
ATOM	3394	CB	PRO	3	113	-30.099	6.498	89.133
ATOM	3395	CG	PRO	3	113	-29.873	5.240	89.890
ATOM	3396	CD	PRO	3	113	-31.251	4.616	90.126
ATOM	3397	N	TYR	3	114	-32.952	6.907	87.593
ATOM	3398	CA	TYR	3	114	-33.767	7.464	86.531
ATOM	3399	C	TYR	3	114	-35.254	7.247	86.687
ATOM	3400	O	TYR	3	114	-35.933	7.470	85.650
ATOM	3401	CB	TYR	3	114	-33.345	6.788	85.158
ATOM	3402	CG	TYR	3	114	-32.112	7.548	84.703
ATOM	3403	CD1	TYR	3	114	-30.880	7.303	85.328
ATOM	3404	CD2	TYR	3	114	-32.177	8.501	83.708
ATOM	3405	CE1	TYR	3	114	-29.741	8.013	84.926
ATOM	3406	CE2	TYR	3	114	-31.064	9.215	83.303
ATOM	3407	CZ	TYR	3	114	-29.847	8.951	83.918
ATOM	3408	OH	TYR	3	114	-28.717	9.636	83.559
ATOM	3409	H	TYR	3	114	-32.875	5.822	87.667
ATOM	3410	HH	TYR	3	114	-28.956	10.335	82.758
ATOM	3411	N	SER	3	115	-35.683	6.815	87.847
ATOM	3412	CA	SER	3	115	-37.104	6.471	88.070
ATOM	3413	C	SER	3	115	-37.428	6.587	89.570
ATOM	3414	O	SER	3	115	-36.566	6.378	90.443
ATOM	3415	CB	SER	3	115	-37.379	5.057	87.577
ATOM	3416	OG	SER	3	115	-38.717	4.670	87.573
ATOM	3417	H	SER	3	115	-34.976	6.708	88.670
ATOM	3418	HG	SER	3	115	-38.798	3.647	87.205
ATOM	3419	N	TYR	3	116	-38.660	6.974	89.838
ATOM	3420	CA	TYR	3	116	-39.181	6.948	91.199
ATOM	3421	C	TYR	3	116	-40.697	6.636	91.119
ATOM	3422	O	TYR	3	116	-41.392	6.969	90.166
ATOM	3423	CB	TYR	3	116	-38.917	8.134	92.078
ATOM	3424	CG	TYR	3	116	-39.585	9.437	91.701
ATOM	3425	CD1	TYR	3	116	-40.899	9.704	92.102
ATOM	3426	CD2	TYR	3	116	-38.935	10.351	90.905
ATOM	3427	CE1	TYR	3	116	-41.514	10.919	91.755
ATOM	3428	CE2	TYR	3	116	-39.526	11.560	90.541
ATOM	3429	CZ	TYR	3	116	-40.814	11.833	90.965
ATOM	3430	OH	TYR	3	116	-41.354	13.015	90.591
ATOM	3431	H	TYR	3	116	-39.302	7.318	89.026
ATOM	3432	HH	TYR	3	116	-40.637	13.566	89.983
ATOM	3433	N	SER	3	117	-41.108	5.970	92.198
ATOM	3434	CA	SER	3	117	-42.544	5.683	92.340
ATOM	3435	C	SER	3	117	-42.933	6.204	93.731
ATOM	3436	O	SER	3	117	-42.134	6.181	94.674
ATOM	3437	CB	SER	3	117	-42.932	4.261	92.106
ATOM	3438	OG	SER	3	117	-42.570	3.340	93.066
ATOM	3439	H	SER	3	117	-40.398	5.647	92.959
ATOM	3440	HG	SER	3	117	-42.915	2.350	92.767
ATOM	3441	N	THR	3	118	-44.155	6.660	93.765
ATOM	3442	CA	THR	3	118	-44.741	7.180	94.994
ATOM	3443	C	THR	3	118	-46.184	6.704	95.126
ATOM	3444	O	THR	3	118	-46.953	6.708	94.173
ATOM	3445	CB	THR	3	118	-44.655	8.739	95.082
ATOM	3446	OG1	THR	3	118	-45.060	9.009	96.468
ATOM	3447	CG2	THR	3	118	-45.555	9.483	94.086
ATOM	3448	H	THR	3	118	-44.751	6.652	92.852
ATOM	3449	HG1	THR	3	118	-45.039	10.084	96.650
ATOM	3450	N	THR	3	119	-46.484	6.325	96.358
ATOM	3451	CA	THR	3	119	-47.839	5.857	96.718

ATOM	3452	C	THR	3	119	-48.205	6.488	98.069
ATOM	3453	O	THR	3	119	-47.380	6.927	98.849
ATOM	3454	CB	THR	3	119	-47.929	4.292	96.710
ATOM	3455	OG1	THR	3	119	-49.396	3.980	96.704
ATOM	3456	CG2	THR	3	119	-47.298	3.635	97.906
ATOM	3457	H	THR	3	119	-45.712	6.359	97.127
ATOM	3458	HG1	THR	3	119	-49.538	2.899	96.697
ATOM	3459	N	ALA	3	120	-49.519	6.579	98.287
ATOM	3460	CA	ALA	3	120	-50.061	7.123	99.518
ATOM	3461	C	ALA	3	120	-50.957	6.062	100.157
ATOM	3462	O	ALA	3	120	-51.694	5.364	99.427
ATOM	3463	CB	ALA	3	120	-50.826	8.402	99.238
ATOM	3464	H	ALA	3	120	-50.207	6.233	97.515
ATOM	3465	N	VAL	3	121	-50.870	5.991	101.455
ATOM	3466	CA	VAL	3	121	-51.758	5.133	102.262
ATOM	3467	C	VAL	3	121	-52.482	6.117	103.218
ATOM	3468	O	VAL	3	121	-51.814	6.757	104.008
ATOM	3469	CB	VAL	3	121	-51.063	4.020	103.039
ATOM	3470	CG1	VAL	3	121	-52.035	3.162	103.870
ATOM	3471	CG2	VAL	3	121	-50.230	3.108	102.155
ATOM	3472	H	VAL	3	121	-50.113	6.588	101.963
ATOM	3473	N	VAL	3	122	-53.779	6.133	103.102
ATOM	3474	CA	VAL	3	122	-54.635	7.035	103.873
ATOM	3475	C	VAL	3	122	-55.552	6.231	104.783
ATOM	3476	O	VAL	3	122	-56.285	5.371	104.281
ATOM	3477	CB	VAL	3	122	-55.415	7.949	102.915
ATOM	3478	CG1	VAL	3	122	-56.291	8.914	103.713
ATOM	3479	CG2	VAL	3	122	-54.445	8.705	102.003
ATOM	3480	H	VAL	3	122	-54.249	5.442	102.402
ATOM	3481	N	THR	3	123	-55.474	6.527	106.048
ATOM	3482	CA	THR	3	123	-56.188	5.895	107.136
ATOM	3483	C	THR	3	123	-57.112	6.849	107.878
ATOM	3484	O	THR	3	123	-56.727	7.989	108.147
ATOM	3485	CB	THR	3	123	-55.170	5.258	108.194
ATOM	3486	OG1	THR	3	123	-54.600	4.116	107.503
ATOM	3487	CG2	THR	3	123	-55.846	4.909	109.510
ATOM	3488	H	THR	3	123	-54.798	7.339	106.317
ATOM	3489	HG1	THR	3	123	-53.886	3.614	108.156
ATOM	3490	N	ASN	3	124	-58.287	6.318	108.187
ATOM	3491	CA	ASN	3	124	-59.351	7.049	108.944
ATOM	3492	C	ASN	3	124	-59.021	6.687	110.409
ATOM	3493	O	ASN	3	124	-59.287	5.570	110.860
ATOM	3494	CB	ASN	3	124	-60.711	6.691	108.432
ATOM	3495	CG	ASN	3	124	-61.817	7.642	108.824
ATOM	3496	OD1	ASN	3	124	-62.214	8.541	108.069
ATOM	3497	ND2	ASN	3	124	-62.350	7.444	110.030
ATOM	3498	H	ASN	3	124	-58.490	5.294	107.872
ATOM	3499	HD2	ASN	3	124	-63.133	8.182	110.207
ATOM	3500	HD2	ASN	3	124	-62.051	6.664	110.730
ATOM	3501	N	PRO	3	125	-58.467	7.710	111.059
ATOM	3502	CA	PRO	3	125	-57.718	7.567	112.275
ATOM	3503	C	PRO	3	125	-58.156	7.310	113.673
ATOM	3504	O	PRO	3	125	-58.967	7.971	114.335
ATOM	3505	CB	PRO	3	125	-56.950	8.962	112.266
ATOM	3506	CG	PRO	3	125	-58.031	9.903	111.815
ATOM	3507	CD	PRO	3	125	-58.871	9.133	110.821
ATOM	3508	N	LYS	3	126	-57.519	6.254	114.211
ATOM	3509	CA	LYS	3	126	-57.558	5.792	115.579
ATOM	3510	C	LYS	3	126	-58.527	4.674	115.897
ATOM	3511	O	LYS	3	126	-59.747	4.765	115.691
ATOM	3512	CB	LYS	3	126	-57.840	6.953	116.556
ATOM	3513	CG	LYS	3	126	-56.709	7.969	116.634
ATOM	3514	CD	LYS	3	126	-57.078	9.197	117.437

ATOM	3515	CE	LYS	3	126	-58.009	10.133	116.687
ATOM	3516	NZ	LYS	3	126	-57.773	11.540	117.134
ATOM	3517	H	LYS	3	126	-56.896	5.676	113.529
ATOM	3518	HZ1	LYS	3	126	-58.443	12.209	116.594
ATOM	3519	HZ2	LYS	3	126	-56.739	11.817	116.930
ATOM	3520	HZ3	LYS	3	126	-57.803	11.445	118.220
ATOM	3521	N	GLU	3	127	-57.943	3.612	116.450
ATOM	3522	CA	GLU	3	127	-58.665	2.421	116.899
ATOM	3523	C	GLU	3	127	-58.161	1.982	118.279
ATOM	3524	OCT	GLU	3	127	-58.513	0.834	118.643
ATOM	3525	CB	GLU	3	127	-58.522	1.236	115.964
ATOM	3526	CG	GLU	3	127	-59.379	1.183	114.700
ATOM	3527	CD	GLU	3	127	-58.913	0.188	113.670
ATOM	3528	OE1	GLU	3	127	-57.734	0.025	113.383
ATOM	3529	OE2	GLU	3	127	-59.849	-0.444	113.150
ATOM	3530	OCT	GLU	3	127	-57.304	2.866	119.135
ATOM	3531	H	GLU	3	127	-56.861	3.631	116.575
TER								
ATOM	3532	N	GLY	4	1	-40.394	15.769	63.054
ATOM	3533	CA	GLY	4	1	-41.285	16.948	63.018
ATOM	3534	C	GLY	4	1	-40.471	18.136	62.484
ATOM	3535	O	GLY	4	1	-39.254	17.989	62.265
ATOM	3536	H1	GLY	4	1	-40.946	14.908	63.430
ATOM	3537	H2	GLY	4	1	-39.548	15.973	63.711
ATOM	3538	H3	GLY	4	1	-40.031	15.557	62.049
ATOM	3539	N	PRO	4	2	-41.161	19.253	62.318
ATOM	3540	CA	PRO	4	2	-40.584	20.480	61.762
ATOM	3541	C	PRO	4	2	-39.328	20.945	62.468
ATOM	3542	O	PRO	4	2	-38.288	20.262	62.435
ATOM	3543	CB	PRO	4	2	-41.717	21.501	61.807
ATOM	3544	CG	PRO	4	2	-42.866	20.832	62.501
ATOM	3545	CD	PRO	4	2	-42.647	19.335	62.292
ATOM	3546	N	THR	4	3	-39.426	22.119	63.073
ATOM	3547	CA	THR	4	3	-38.335	22.742	63.849
ATOM	3548	C	THR	4	3	-38.480	24.255	63.846
ATOM	3549	O	THR	4	3	-39.542	24.798	63.487
ATOM	3550	CB	THR	4	3	-36.930	22.173	63.454
ATOM	3551	OG1	THR	4	3	-36.866	20.889	64.214
ATOM	3552	CG2	THR	4	3	-35.677	22.983	63.738
ATOM	3553	H	THR	4	3	-40.369	22.659	62.993
ATOM	3554	HG1	THR	4	3	-35.915	20.395	64.014
ATOM	3555	N	GLY	4	4	-37.440	24.929	64.265
ATOM	3556	CA	GLY	4	4	-37.342	26.384	64.401
ATOM	3557	C	GLY	4	4	-37.091	26.647	65.903
ATOM	3558	O	GLY	4	4	-36.201	26.031	66.501
ATOM	3559	H	GLY	4	4	-36.559	24.350	64.541
ATOM	3560	N	THR	4	5	-37.899	27.533	66.427
ATOM	3561	CA	THR	4	5	-37.868	27.908	67.852
ATOM	3562	C	THR	4	5	-38.915	27.092	68.601
ATOM	3563	O	THR	4	5	-40.043	27.541	68.846
ATOM	3564	CB	THR	4	5	-38.058	29.461	68.005
ATOM	3565	OG1	THR	4	5	-37.400	30.051	66.829
ATOM	3566	CG2	THR	4	5	-37.499	30.058	69.300
ATOM	3567	H	THR	4	5	-38.630	28.016	65.779
ATOM	3568	HG1	THR	4	5	-37.492	31.136	66.868
ATOM	3569	N	GLY	4	6	-38.550	25.873	68.935
ATOM	3570	CA	GLY	4	6	-39.291	24.893	69.661
ATOM	3571	C	GLY	4	6	-40.631	24.444	69.146
ATOM	3572	O	GLY	4	6	-41.571	25.255	69.011
ATOM	3573	H	GLY	4	6	-37.552	25.572	68.616
ATOM	3574	N	GLU	4	7	-40.740	23.141	68.858
ATOM	3575	CA	GLU	4	7	-41.995	22.509	68.447
ATOM	3576	C	GLU	4	7	-41.895	21.433	67.396

ATOM	3577	O	GLU	4	7	-42.486	21.630	66.302
ATOM	3578	CB	GLU	4	7	-42.962	23.580	67.932
ATOM	3579	CG	GLU	4	7	-44.424	23.320	67.702
ATOM	3580	CD	GLU	4	7	-45.287	24.546	67.539
ATOM	3581	OE1	GLU	4	7	-44.816	25.531	68.149
ATOM	3582	OE2	GLU	4	7	-46.319	24.564	66.893
ATOM	3583	H	GLU	4	7	-39.848	22.518	68.931
ATOM	3584	N	SER	4	8	-41.178	20.344	67.631
ATOM	3585	CA	SER	4	8	-41.159	19.179	66.761
ATOM	3586	C	SER	4	8	-39.870	18.617	66.222
ATOM	3587	O	SER	4	8	-39.915	18.194	65.020
ATOM	3588	CB	SER	4	8	-42.095	19.393	65.538
ATOM	3589	OG	SER	4	8	-43.447	19.273	65.892
ATOM	3590	H	SER	4	8	-40.565	20.320	68.532
ATOM	3591	HG	SER	4	8	-44.069	19.435	65.011
ATOM	3592	N	LYS	4	9	-38.777	18.544	66.928
ATOM	3593	CA	LYS	4	9	-37.548	17.893	66.381
ATOM	3594	C	LYS	4	9	-37.328	16.619	67.213
ATOM	3595	O	LYS	4	9	-36.404	15.826	67.068
ATOM	3596	CB	LYS	4	9	-36.331	18.777	66.419
ATOM	3597	CG	LYS	4	9	-35.114	18.277	65.654
ATOM	3598	CD	LYS	4	9	-34.923	18.920	64.305
ATOM	3599	CE	LYS	4	9	-35.659	18.277	63.164
ATOM	3600	NZ	LYS	4	9	-34.944	17.074	62.668
ATOM	3601	H	LYS	4	9	-38.759	18.964	67.933
ATOM	3602	HZ1	LYS	4	9	-35.503	16.633	61.843
ATOM	3603	HZ2	LYS	4	9	-34.854	16.347	63.475
ATOM	3604	HZ3	LYS	4	9	-33.950	17.359	62.323
ATOM	3605	N	CYS	4	10	-38.256	16.484	68.136
ATOM	3606	CA	CYS	4	10	-38.429	15.435	69.092
ATOM	3607	C	CYS	4	10	-37.294	15.174	70.063
ATOM	3608	O	CYS	4	10	-36.911	13.997	70.285
ATOM	3609	CB	CYS	4	10	-38.853	14.124	68.375
ATOM	3610	SG	CYS	4	10	-40.654	14.099	68.083
ATOM	3611	H	CYS	4	10	-38.997	17.282	68.177
ATOM	3612	N	PRO	4	11	-36.785	16.242	70.642
ATOM	3613	CA	PRO	4	11	-35.783	16.111	71.711
ATOM	3614	C	PRO	4	11	-36.527	15.761	73.006
ATOM	3615	O	PRO	4	11	-35.887	15.276	73.906
ATOM	3616	CB	PRO	4	11	-35.107	17.453	71.757
ATOM	3617	CG	PRO	4	11	-36.217	18.396	71.372
ATOM	3618	CD	PRO	4	11	-36.918	17.638	70.224
ATOM	3619	N	LEU	4	12	-37.836	16.012	73.016
ATOM	3620	CA	LEU	4	12	-38.653	15.775	74.209
ATOM	3621	C	LEU	4	12	-40.029	15.209	73.916
ATOM	3622	O	LEU	4	12	-40.849	15.792	73.200
ATOM	3623	CB	LEU	4	12	-38.730	17.100	75.009
ATOM	3624	CG	LEU	4	12	-39.440	16.967	76.362
ATOM	3625	CD1	LEU	4	12	-38.624	16.069	77.287
ATOM	3626	CD2	LEU	4	12	-39.593	18.369	76.943
ATOM	3627	H	LEU	4	12	-38.310	16.403	72.115
ATOM	3628	N	MET	4	13	-40.291	14.082	74.544
ATOM	3629	CA	MET	4	13	-41.518	13.307	74.411
ATOM	3630	C	MET	4	13	-42.041	12.821	75.783
ATOM	3631	O	MET	4	13	-41.245	12.454	76.634
ATOM	3632	CB	MET	4	13	-41.183	12.081	73.527
ATOM	3633	CG	MET	4	13	-40.046	12.390	72.569
ATOM	3634	SD	MET	4	13	-39.957	11.156	71.273
ATOM	3635	CE	MET	4	13	-41.030	9.879	71.824
ATOM	3636	H	MET	4	13	-39.528	13.698	75.221
ATOM	3637	N	VAL	4	14	-43.349	12.818	75.890
ATOM	3638	CA	VAL	4	14	-44.043	12.377	77.112
ATOM	3639	C	VAL	4	14	-44.964	11.230	76.733

ATOM	3640	O	VAL	4	14	-45.615	11.311	75.676
ATOM	3641	CB	VAL	4	14	-44.704	13.581	77.775
ATOM	3642	CG1	VAL	4	14	-45.511	13.200	79.024
ATOM	3643	CG2	VAL	4	14	-43.701	14.684	78.084
ATOM	3644	H	VAL	4	14	-43.944	13.156	75.042
ATOM	3645	N	LYS	4	15	-44.955	10.191	77.539
ATOM	3646	CA	LYS	4	15	-45.833	9.023	77.365
ATOM	3647	C	LYS	4	15	-46.510	8.790	78.713
ATOM	3648	O	LYS	4	15	-45.830	8.751	79.725
ATOM	3649	CB	LYS	4	15	-45.059	7.795	76.892
ATOM	3650	CG	LYS	4	15	-45.985	6.549	76.906
ATOM	3651	CD	LYS	4	15	-45.813	5.759	75.615
ATOM	3652	CE	LYS	4	15	-47.156	5.160	75.237
ATOM	3653	NZ	LYS	4	15	-47.290	5.025	73.773
ATOM	3654	H	LYS	4	15	-44.261	10.194	78.380
ATOM	3655	HZ1	LYS	4	15	-48.262	4.593	73.535
ATOM	3656	HZ2	LYS	4	15	-46.501	4.374	73.394
ATOM	3657	HZ3	LYS	4	15	-47.205	6.007	73.308
ATOM	3658	N	VAL	4	16	-47.823	8.680	78.724
ATOM	3659	CA	VAL	4	16	-48.641	8.506	79.895
ATOM	3660	C	VAL	4	16	-49.548	7.291	79.726
ATOM	3661	O	VAL	4	16	-50.207	7.143	78.684
ATOM	3662	CB	VAL	4	16	-49.439	9.806	80.186
ATOM	3663	CG1	VAL	4	16	-50.058	9.699	81.574
ATOM	3664	CG2	VAL	4	16	-48.632	11.080	80.016
ATOM	3665	H	VAL	4	16	-48.334	8.724	77.762
ATOM	3666	N	LEU	4	17	-49.512	6.407	80.699
ATOM	3667	CA	LEU	4	17	-50.249	5.168	80.756
ATOM	3668	C	LEU	4	17	-51.119	5.120	82.021
ATOM	3669	O	LEU	4	17	-50.782	5.704	83.075
ATOM	3670	CB	LEU	4	17	-49.260	3.978	80.700
ATOM	3671	CG	LEU	4	17	-48.337	3.867	79.492
ATOM	3672	CD1	LEU	4	17	-47.466	2.619	79.606
ATOM	3673	CD2	LEU	4	17	-49.198	3.727	78.236
ATOM	3674	H	LEU	4	17	-48.863	6.632	81.545
ATOM	3675	N	ASP	4	18	-52.174	4.399	81.888
ATOM	3676	CA	ASP	4	18	-53.199	4.167	82.939
ATOM	3677	C	ASP	4	18	-53.068	2.721	83.378
ATOM	3678	O	ASP	4	18	-53.183	1.802	82.512
ATOM	3679	CB	ASP	4	18	-54.530	4.519	82.303
ATOM	3680	CG	ASP	4	18	-55.736	4.218	83.174
ATOM	3681	OD1	ASP	4	18	-55.669	3.441	84.114
ATOM	3682	OD2	ASP	4	18	-56.774	4.818	82.862
ATOM	3683	H	ASP	4	18	-52.332	3.919	80.923
ATOM	3684	N	ALA	4	19	-52.816	2.486	84.637
ATOM	3685	CA	ALA	4	19	-52.606	1.198	85.256
ATOM	3686	C	ALA	4	19	-53.903	0.552	85.772
ATOM	3687	O	ALA	4	19	-53.846	-0.608	86.176
ATOM	3688	CB	ALA	4	19	-51.635	1.298	86.439
ATOM	3689	H	ALA	4	19	-52.755	3.356	85.291
ATOM	3690	N	VAL	4	20	-54.963	1.332	85.755
ATOM	3691	CA	VAL	4	20	-56.264	0.776	86.206
ATOM	3692	C	VAL	4	20	-56.887	0.017	85.021
ATOM	3693	O	VAL	4	20	-57.321	-1.118	85.211
ATOM	3694	CB	VAL	4	20	-57.153	1.796	86.884
ATOM	3695	CG1	VAL	4	20	-58.545	1.180	87.213
ATOM	3696	CG2	VAL	4	20	-56.565	2.370	88.179
ATOM	3697	H	VAL	4	20	-54.888	2.366	85.417
ATOM	3698	N	ARG	4	21	-56.894	0.635	83.875
ATOM	3699	CA	ARG	4	21	-57.472	0.111	82.651
ATOM	3700	C	ARG	4	21	-56.556	-0.584	81.668
ATOM	3701	O	ARG	4	21	-57.100	-1.261	80.731
ATOM	3702	CB	ARG	4	21	-58.147	1.298	81.892

ATOM	3703	CG	ARG	4	21	-59.421	1.735	82.637
ATOM	3704	CD	ARG	4	21	-60.191	2.665	81.720
ATOM	3705	NE	ARG	4	21	-59.367	3.884	81.503
ATOM	3706	CZ	ARG	4	21	-59.667	4.678	80.480
ATOM	3707	NH1	ARG	4	21	-60.674	4.359	79.655
ATOM	3708	NH2	ARG	4	21	-59.006	5.802	80.291
ATOM	3709	H	ARG	4	21	-56.431	1.621	83.832
ATOM	3710	HE	ARG	4	21	-58.536	4.119	82.167
ATOM	3711	HH1	ARG	4	21	-60.769	5.123	78.884
ATOM	3712	HH1	ARG	4	21	-61.301	3.471	79.740
ATOM	3713	HH2	ARG	4	21	-59.396	6.308	79.408
ATOM	3714	HH2	ARG	4	21	-58.195	6.169	80.920
ATOM	3715	N	GLY	4	22	-55.271	-0.429	81.810
ATOM	3716	CA	GLY	4	22	-54.289	-1.048	80.920
ATOM	3717	C	GLY	4	22	-54.351	-0.445	79.522
ATOM	3718	O	GLY	4	22	-54.439	-1.193	78.515
ATOM	3719	H	GLY	4	22	-54.910	0.189	82.632
ATOM	3720	N	SER	4	23	-54.294	0.858	79.497
ATOM	3721	CA	SER	4	23	-54.335	1.657	78.298
ATOM	3722	C	SER	4	23	-53.532	2.936	78.381
ATOM	3723	O	SER	4	23	-53.011	3.412	79.420
ATOM	3724	CB	SER	4	23	-55.803	1.993	77.947
ATOM	3725	OG	SER	4	23	-56.423	2.689	79.000
ATOM	3726	H	SER	4	23	-54.210	1.379	80.451
ATOM	3727	HG	SER	4	23	-57.454	2.914	78.730
ATOM	3728	N	PRO	4	24	-53.450	3.545	77.191
ATOM	3729	CA	PRO	4	24	-52.787	4.858	77.081
ATOM	3730	C	PRO	4	24	-53.693	5.816	77.860
ATOM	3731	O	PRO	4	24	-54.932	5.604	77.879
ATOM	3732	CB	PRO	4	24	-52.698	5.130	75.602
ATOM	3733	CG	PRO	4	24	-53.545	4.066	74.944
ATOM	3734	CD	PRO	4	24	-53.507	2.865	75.875
ATOM	3735	N	ALA	4	25	-53.098	6.799	78.472
ATOM	3736	CA	ALA	4	25	-53.911	7.848	79.181
ATOM	3737	C	ALA	4	25	-54.111	8.953	78.146
ATOM	3738	O	ALA	4	25	-53.158	9.620	77.783
ATOM	3739	CB	ALA	4	25	-53.250	8.268	80.451
ATOM	3740	H	ALA	4	25	-52.009	6.860	78.473
ATOM	3741	N	ILE	4	26	-55.364	9.105	77.709
ATOM	3742	CA	ILE	4	26	-55.667	10.039	76.608
ATOM	3743	C	ILE	4	26	-56.223	11.355	77.087
ATOM	3744	O	ILE	4	26	-56.919	11.374	78.112
ATOM	3745	CB	ILE	4	26	-56.627	9.311	75.583
ATOM	3746	CG1	ILE	4	26	-55.964	8.011	75.120
ATOM	3747	CG2	ILE	4	26	-57.034	10.194	74.379
ATOM	3748	CD1	ILE	4	26	-56.920	6.934	74.551
ATOM	3749	H	ILE	4	26	-56.170	8.534	78.171
ATOM	3750	N	ASN	4	27	-55.900	12.393	76.359
ATOM	3751	CA	ASN	4	27	-56.373	13.748	76.573
ATOM	3752	C	ASN	4	27	-55.945	14.274	77.951
ATOM	3753	O	ASN	4	27	-56.691	15.020	78.613
ATOM	3754	CB	ASN	4	27	-57.899	13.846	76.344
ATOM	3755	CG	ASN	4	27	-58.328	13.475	74.949
ATOM	3756	OD1	ASN	4	27	-57.843	13.972	73.916
ATOM	3757	ND2	ASN	4	27	-59.286	12.551	74.836
ATOM	3758	H	ASN	4	27	-55.218	12.226	75.525
ATOM	3759	HD2	ASN	4	27	-59.501	12.378	73.781
ATOM	3760	HD2	ASN	4	27	-59.778	12.048	75.668
ATOM	3761	N	VAL	4	28	-54.741	13.847	78.346
ATOM	3762	CA	VAL	4	28	-54.172	14.325	79.618
ATOM	3763	C	VAL	4	28	-53.432	15.644	79.307
ATOM	3764	O	VAL	4	28	-52.620	15.668	78.366
ATOM	3765	CB	VAL	4	28	-53.231	13.333	80.301

ATOM	3766	CG1	VAL	4	28	-52.721	13.955	81.618
ATOM	3767	CG2	VAL	4	28	-53.797	11.959	80.554
ATOM	3768	H	VAL	4	28	-54.182	13.146	77.727
ATOM	3769	N	ALA	4	29	-53.702	16.664	80.077
ATOM	3770	CA	ALA	4	29	-53.019	17.947	79.925
ATOM	3771	C	ALA	4	29	-51.622	17.908	80.542
ATOM	3772	O	ALA	4	29	-51.399	17.373	81.652
ATOM	3773	CB	ALA	4	29	-53.821	19.097	80.535
ATOM	3774	H	ALA	4	29	-54.457	16.555	80.855
ATOM	3775	N	VAL	4	30	-50.714	18.493	79.805
ATOM	3776	CA	VAL	4	30	-49.293	18.616	80.171
ATOM	3777	C	VAL	4	30	-48.783	20.038	79.943
ATOM	3778	O	VAL	4	30	-49.002	20.614	78.869
ATOM	3779	CB	VAL	4	30	-48.441	17.610	79.347
ATOM	3780	CG1	VAL	4	30	-46.944	17.815	79.601
ATOM	3781	CG2	VAL	4	30	-48.854	16.165	79.527
ATOM	3782	H	VAL	4	30	-51.032	18.920	78.853
ATOM	3783	N	HIS	4	31	-48.056	20.575	80.893
ATOM	3784	CA	HIS	4	31	-47.485	21.924	80.876
ATOM	3785	C	HIS	4	31	-45.993	21.747	81.158
ATOM	3786	O	HIS	4	31	-45.679	20.970	82.060
ATOM	3787	CB	HIS	4	31	-48.159	22.861	81.891
ATOM	3788	CG	HIS	4	31	-49.575	23.196	81.527
ATOM	3789	ND1	HIS	4	31	-49.896	24.266	80.720
ATOM	3790	CD2	HIS	4	31	-50.738	22.618	81.856
ATOM	3791	CE1	HIS	4	31	-51.197	24.335	80.552
ATOM	3792	NE2	HIS	4	31	-51.739	23.346	81.239
ATOM	3793	H	HIS	4	31	-47.858	19.963	81.773
ATOM	3794	HD1	HIS	4	31	-49.174	24.956	80.285
ATOM	3795	N	VAL	4	32	-45.142	22.364	80.431
ATOM	3796	CA	VAL	4	32	-43.675	22.284	80.590
ATOM	3797	C	VAL	4	32	-43.227	23.707	80.946
ATOM	3798	O	VAL	4	32	-43.750	24.672	80.341
ATOM	3799	CB	VAL	4	32	-42.975	21.729	79.348
ATOM	3800	CG1	VAL	4	32	-41.477	21.510	79.570
ATOM	3801	CG2	VAL	4	32	-43.572	20.444	78.812
ATOM	3802	H	VAL	4	32	-45.527	22.998	79.632
ATOM	3803	N	PHE	4	33	-42.342	23.802	81.871
ATOM	3804	CA	PHE	4	33	-41.796	25.047	82.405
ATOM	3805	C	PHE	4	33	-40.265	24.941	82.352
ATOM	3806	O	PHE	4	33	-39.734	23.820	82.455
ATOM	3807	CB	PHE	4	33	-42.259	25.299	83.848
ATOM	3808	CG	PHE	4	33	-43.751	25.321	83.993
ATOM	3809	CD1	PHE	4	33	-44.458	26.479	83.655
ATOM	3810	CD2	PHE	4	33	-44.433	24.185	84.438
ATOM	3811	CE1	PHE	4	33	-45.853	26.513	83.793
ATOM	3812	CE2	PHE	4	33	-45.813	24.191	84.563
ATOM	3813	CZ	PHE	4	33	-46.516	25.361	84.248
ATOM	3814	H	PHE	4	33	-41.965	22.872	82.296
ATOM	3815	N	ARG	4	34	-39.664	26.097	82.196
ATOM	3816	CA	ARG	4	34	-38.200	26.223	82.218
ATOM	3817	C	ARG	4	34	-37.895	27.208	83.356
ATOM	3818	O	ARG	4	34	-38.590	28.224	83.451
ATOM	3819	CB	ARG	4	34	-37.581	26.690	80.911
ATOM	3820	CG	ARG	4	34	-36.030	26.712	81.009
ATOM	3821	CD	ARG	4	34	-35.457	27.089	79.688
ATOM	3822	NE	ARG	4	34	-34.024	27.065	79.592
ATOM	3823	CZ	ARG	4	34	-33.081	27.817	80.132
ATOM	3824	NH1	ARG	4	34	-33.292	28.841	80.955
ATOM	3825	NH2	ARG	4	34	-31.795	27.553	79.842
ATOM	3826	H	ARG	4	34	-40.269	26.992	82.049
ATOM	3827	HE	ARG	4	34	-33.640	26.274	78.948
ATOM	3828	HH1	ARG	4	34	-32.336	29.277	81.245

ATOM	3829	HH1	ARG	4	34	-34.269	29.192	81.286
ATOM	3830	HH2	ARG	4	34	-31.152	28.261	80.366
ATOM	3831	HH2	ARG	4	34	-31.449	26.757	79.184
ATOM	3832	N	LYS	4	35	-36.907	26.877	84.146
ATOM	3833	CA	LYS	4	35	-36.551	27.735	85.306
ATOM	3834	C	LYS	4	35	-35.810	28.959	84.799
ATOM	3835	O	LYS	4	35	-34.892	28.814	83.953
ATOM	3836	CB	LYS	4	35	-35.686	27.003	86.308
ATOM	3837	CG	LYS	4	35	-35.367	27.786	87.583
ATOM	3838	CD	LYS	4	35	-35.191	26.777	88.727
ATOM	3839	CE	LYS	4	35	-36.053	27.188	89.917
ATOM	3840	NZ	LYS	4	35	-35.428	26.623	91.155
ATOM	3841	H	LYS	4	35	-36.341	25.966	83.953
ATOM	3842	HZ1	LYS	4	35	-36.025	26.902	92.023
ATOM	3843	HZ2	LYS	4	35	-34.418	27.019	91.266
ATOM	3844	HZ3	LYS	4	35	-35.385	25.536	91.077
ATOM	3845	N	ALA	4	36	-36.220	30.101	85.322
ATOM	3846	CA	ALA	4	36	-35.609	31.374	84.900
ATOM	3847	C	ALA	4	36	-34.789	31.959	86.039
ATOM	3848	O	ALA	4	36	-34.851	31.555	87.209
ATOM	3849	CB	ALA	4	36	-36.669	32.318	84.369
ATOM	3850	H	ALA	4	36	-37.015	30.102	86.068
ATOM	3851	N	ALA	4	37	-33.994	32.937	85.643
ATOM	3852	CA	ALA	4	37	-33.128	33.750	86.470
ATOM	3853	C	ALA	4	37	-33.625	33.912	87.894
ATOM	3854	O	ALA	4	37	-32.931	33.556	88.854
ATOM	3855	CB	ALA	4	37	-33.068	35.178	85.853
ATOM	3856	H	ALA	4	37	-33.988	33.154	84.575
ATOM	3857	N	ASP	4	38	-34.822	34.464	87.995
ATOM	3858	CA	ASP	4	38	-35.446	34.801	89.283
ATOM	3859	C	ASP	4	38	-35.869	33.543	90.037
ATOM	3860	O	ASP	4	38	-36.584	33.651	91.060
ATOM	3861	CB	ASP	4	38	-36.589	35.788	89.118
ATOM	3862	CG	ASP	4	38	-37.315	35.711	87.794
ATOM	3863	OD1	ASP	4	38	-36.701	35.440	86.752
ATOM	3864	OD2	ASP	4	38	-38.544	35.952	87.809
ATOM	3865	H	ASP	4	38	-35.372	34.681	87.079
ATOM	3866	N	ASP	4	39	-35.427	32.421	89.524
ATOM	3867	CA	ASP	4	39	-35.743	31.121	90.142
ATOM	3868	C	ASP	4	39	-37.219	30.778	89.972
ATOM	3869	O	ASP	4	39	-37.627	29.773	90.599
ATOM	3870	CB	ASP	4	39	-35.254	31.084	91.595
ATOM	3871	CG	ASP	4	39	-34.880	29.678	92.035
ATOM	3872	OD1	ASP	4	39	-35.820	28.925	92.368
ATOM	3873	OD2	ASP	4	39	-33.689	29.318	92.045
ATOM	3874	H	ASP	4	39	-34.814	32.450	88.623
ATOM	3875	N	THR	4	40	-37.961	31.535	89.182
ATOM	3876	CA	THR	4	40	-39.375	31.215	88.908
ATOM	3877	C	THR	4	40	-39.492	30.362	87.632
ATOM	3878	O	THR	4	40	-38.543	30.250	86.848
ATOM	3879	CB	THR	4	40	-40.352	32.443	88.857
ATOM	3880	OG1	THR	4	40	-39.937	33.320	87.761
ATOM	3881	CG2	THR	4	40	-40.471	33.210	90.183
ATOM	3882	H	THR	4	40	-37.516	32.415	88.717
ATOM	3883	HG1	THR	4	40	-40.606	34.180	87.711
ATOM	3884	N	TRP	4	41	-40.663	29.793	87.445
ATOM	3885	CA	TRP	4	41	-41.012	28.899	86.356
ATOM	3886	C	TRP	4	41	-41.732	29.588	85.208
ATOM	3887	O	TRP	4	41	-42.893	30.021	85.405
ATOM	3888	CB	TRP	4	41	-41.935	27.760	86.896
ATOM	3889	CG	TRP	4	41	-41.264	26.819	87.827
ATOM	3890	CD1	TRP	4	41	-41.469	26.667	89.169
ATOM	3891	CD2	TRP	4	41	-40.237	25.874	87.475

ATOM	3892	NE1	TRP	4	41	-40.643	25.693	89.676
ATOM	3893	CE2	TRP	4	41	-39.875	25.192	88.663
ATOM	3894	CE3	TRP	4	41	-39.607	25.541	86.283
ATOM	3895	CZ2	TRP	4	41	-38.908	24.198	88.672
ATOM	3896	CZ3	TRP	4	41	-38.633	24.565	86.302
ATOM	3897	CH2	TRP	4	41	-38.293	23.895	87.464
ATOM	3898	H	TRP	4	41	-41.442	30.014	88.174
ATOM	3899	HE1	TRP	4	41	-40.606	25.375	90.718
ATOM	3900	N	GLU	4	42	-41.120	29.673	84.064
ATOM	3901	CA	GLU	4	42	-41.657	30.248	82.838
ATOM	3902	C	GLU	4	42	-42.255	29.209	81.902
ATOM	3903	O	GLU	4	42	-41.596	28.210	81.533
ATOM	3904	CB	GLU	4	42	-40.502	30.920	82.051
ATOM	3905	CG	GLU	4	42	-39.706	31.969	82.854
ATOM	3906	CD	GLU	4	42	-40.511	33.192	83.203
ATOM	3907	OE1	GLU	4	42	-41.263	33.284	84.152
ATOM	3908	OE2	GLU	4	42	-40.323	34.123	82.386
ATOM	3909	H	GLU	4	42	-40.107	29.274	84.016
ATOM	3910	N	PRO	4	43	-43.506	29.439	81.524
ATOM	3911	CA	PRO	4	43	-44.209	28.580	80.553
ATOM	3912	C	PRO	4	43	-43.283	28.347	79.376
ATOM	3913	O	PRO	4	43	-42.525	29.270	79.015
ATOM	3914	CB	PRO	4	43	-45.451	29.382	80.221
ATOM	3915	CG	PRO	4	43	-45.756	30.155	81.462
ATOM	3916	CD	PRO	4	43	-44.477	30.274	82.265
ATOM	3917	N	PHE	4	44	-43.342	27.148	78.814
ATOM	3918	CA	PHE	4	44	-42.432	26.733	77.749
ATOM	3919	C	PHE	4	44	-43.182	25.991	76.656
ATOM	3920	O	PHE	4	44	-42.992	26.298	75.463
ATOM	3921	CB	PHE	4	44	-41.254	25.928	78.320
ATOM	3922	CG	PHE	4	44	-40.246	25.422	77.341
ATOM	3923	CD1	PHE	4	44	-39.284	26.290	76.811
ATOM	3924	CD2	PHE	4	44	-40.243	24.095	76.931
ATOM	3925	CE1	PHE	4	44	-38.336	25.861	75.904
ATOM	3926	CE2	PHE	4	44	-39.296	23.624	76.003
ATOM	3927	CZ	PHE	4	44	-38.335	24.537	75.510
ATOM	3928	H	PHE	4	44	-44.100	26.445	79.160
ATOM	3929	N	ALA	4	45	-44.011	25.050	77.042
ATOM	3930	CA	ALA	4	45	-44.754	24.209	76.085
ATOM	3931	C	ALA	4	45	-45.948	23.599	76.787
ATOM	3932	O	ALA	4	45	-45.978	23.615	78.027
ATOM	3933	CB	ALA	4	45	-43.846	23.164	75.492
ATOM	3934	H	ALA	4	45	-44.156	24.884	78.110
ATOM	3935	N	SER	4	46	-46.882	23.109	76.003
ATOM	3936	CA	SER	4	46	-48.089	22.470	76.572
ATOM	3937	C	SER	4	46	-48.792	21.688	75.466
ATOM	3938	O	SER	4	46	-48.551	21.908	74.267
ATOM	3939	CB	SER	4	46	-49.005	23.409	77.306
ATOM	3940	OG	SER	4	46	-49.584	24.484	76.620
ATOM	3941	H	SER	4	46	-46.766	23.176	74.921
ATOM	3942	HG	SER	4	46	-50.214	25.055	77.303
ATOM	3943	N	GLY	4	47	-49.657	20.793	75.896
ATOM	3944	CA	GLY	4	47	-50.392	19.924	74.978
ATOM	3945	C	GLY	4	47	-51.192	18.927	75.811
ATOM	3946	O	GLY	4	47	-51.247	19.008	77.039
ATOM	3947	H	GLY	4	47	-49.831	20.697	76.967
ATOM	3948	N	LYS	4	48	-51.807	18.039	75.069
ATOM	3949	CA	LYS	4	48	-52.657	16.993	75.621
ATOM	3950	C	LYS	4	48	-52.209	15.711	74.902
ATOM	3951	O	LYS	4	48	-51.894	15.794	73.708
ATOM	3952	CB	LYS	4	48	-54.131	17.221	75.402
ATOM	3953	CG	LYS	4	48	-54.641	18.599	75.719
ATOM	3954	CD	LYS	4	48	-56.139	18.646	75.929

ATOM	3955	CE	LYS	4	48	-56.995	18.019	74.882
ATOM	3956	NZ	LYS	4	48	-56.439	18.026	73.510
ATOM	3957	H	LYS	4	48	-51.676	18.085	73.988
ATOM	3958	HZ1	LYS	4	48	-57.142	17.546	72.830
ATOM	3959	HZ2	LYS	4	48	-55.494	17.483	73.498
ATOM	3960	HZ3	LYS	4	48	-56.271	19.055	73.192
ATOM	3961	N	THR	4	49	-52.187	14.644	75.666
ATOM	3962	CA	THR	4	49	-51.786	13.358	75.071
ATOM	3963	C	THR	4	49	-52.829	12.947	74.041
ATOM	3964	O	THR	4	49	-54.044	13.201	74.150
ATOM	3965	CB	THR	4	49	-51.547	12.306	76.227
ATOM	3966	OG1	THR	4	49	-52.867	12.183	76.843
ATOM	3967	CG2	THR	4	49	-50.430	12.718	77.178
ATOM	3968	H	THR	4	49	-52.459	14.709	76.719
ATOM	3969	HG1	THR	4	49	-52.819	11.470	77.667
ATOM	3970	N	SER	4	50	-52.315	12.318	73.011
ATOM	3971	CA	SER	4	50	-53.016	11.777	71.864
ATOM	3972	C	SER	4	50	-53.690	10.466	72.238
ATOM	3973	O	SER	4	50	-53.690	10.076	73.411
ATOM	3974	CB	SER	4	50	-51.978	11.487	70.769
ATOM	3975	OG	SER	4	50	-51.227	10.347	71.151
ATOM	3976	H	SER	4	50	-51.233	12.186	73.019
ATOM	3977	HG	SER	4	50	-50.485	10.127	70.383
ATOM	3978	N	GLU	4	51	-54.230	9.798	71.231
ATOM	3979	CA	GLU	4	51	-54.902	8.517	71.384
ATOM	3980	C	GLU	4	51	-53.963	7.416	71.864
ATOM	3981	O	GLU	4	51	-54.434	6.389	72.392
ATOM	3982	CB	GLU	4	51	-55.573	8.040	70.088
ATOM	3983	CG	GLU	4	51	-56.854	8.748	69.666
ATOM	3984	CD	GLU	4	51	-57.982	8.848	70.634
ATOM	3985	OE1	GLU	4	51	-57.678	9.423	71.709
ATOM	3986	OE2	GLU	4	51	-59.131	8.436	70.460
ATOM	3987	H	GLU	4	51	-54.167	10.231	70.232
ATOM	3988	N	SER	4	52	-52.670	7.612	71.665
ATOM	3989	CA	SER	4	52	-51.674	6.632	72.124
ATOM	3990	C	SER	4	52	-50.954	7.097	73.381
ATOM	3991	O	SER	4	52	-49.880	6.525	73.724
ATOM	3992	CB	SER	4	52	-50.677	6.299	71.016
ATOM	3993	OG	SER	4	52	-49.849	7.449	70.806
ATOM	3994	H	SER	4	52	-52.339	8.515	71.152
ATOM	3995	HG	SER	4	52	-49.126	7.237	70.018
ATOM	3996	N	GLY	4	53	-51.487	8.081	74.079
ATOM	3997	CA	GLY	4	53	-50.942	8.583	75.321
ATOM	3998	C	GLY	4	53	-49.646	9.327	75.196
ATOM	3999	O	GLY	4	53	-48.915	9.543	76.177
ATOM	4000	H	GLY	4	53	-52.396	8.544	73.696
ATOM	4001	N	GLU	4	54	-49.331	9.773	73.972
ATOM	4002	CA	GLU	4	54	-48.113	10.496	73.678
ATOM	4003	C	GLU	4	54	-48.329	11.950	73.325
ATOM	4004	O	GLU	4	54	-49.376	12.386	72.830
ATOM	4005	CB	GLU	4	54	-47.346	9.846	72.504
ATOM	4006	CG	GLU	4	54	-47.019	8.371	72.677
ATOM	4007	CD	GLU	4	54	-46.436	7.654	71.508
ATOM	4008	OE1	GLU	4	54	-46.045	8.194	70.491
ATOM	4009	OE2	GLU	4	54	-46.392	6.416	71.665
ATOM	4010	H	GLU	4	54	-50.029	9.581	73.157
ATOM	4011	N	LEU	4	55	-47.272	12.697	73.595
ATOM	4012	CA	LEU	4	55	-47.183	14.136	73.297
ATOM	4013	C	LEU	4	55	-45.814	14.399	72.663
ATOM	4014	O	LEU	4	55	-44.773	14.195	73.320
ATOM	4015	CB	LEU	4	55	-47.403	14.880	74.594
ATOM	4016	CG	LEU	4	55	-48.196	16.137	74.693
ATOM	4017	CD1	LEU	4	55	-47.558	17.066	75.728

ATOM	4018	CD2	LEU	4	55	-48.293	16.833	73.335
ATOM	4019	H	LEU	4	55	-46.413	12.218	74.067
ATOM	4020	N	HIS	4	56	-45.828	14.844	71.434
ATOM	4021	CA	HIS	4	56	-44.638	15.143	70.654
ATOM	4022	C	HIS	4	56	-44.730	16.563	70.085
ATOM	4023	O	HIS	4	56	-45.832	17.147	70.081
ATOM	4024	CB	HIS	4	56	-44.455	14.223	69.398
ATOM	4025	CG	HIS	4	56	-44.698	12.794	69.711
ATOM	4026	ND1	HIS	4	56	-45.868	12.143	69.453
ATOM	4027	CD2	HIS	4	56	-43.882	11.879	70.294
ATOM	4028	CE1	HIS	4	56	-45.770	10.890	69.871
ATOM	4029	NE2	HIS	4	56	-44.581	10.696	70.384
ATOM	4030	H	HIS	4	56	-46.798	15.000	70.962
ATOM	4031	HD1	HIS	4	56	-46.744	12.584	68.977
ATOM	4032	N	GLY	4	57	-43.599	17.027	69.611
ATOM	4033	CA	GLY	4	57	-43.512	18.361	68.999
ATOM	4034	C	GLY	4	57	-43.737	19.432	70.045
ATOM	4035	O	GLY	4	57	-44.435	20.425	69.765
ATOM	4036	H	GLY	4	57	-42.702	16.411	69.672
ATOM	4037	N	LEU	4	58	-43.171	19.203	71.233
ATOM	4038	CA	LEU	4	58	-43.249	20.188	72.321
ATOM	4039	C	LEU	4	58	-42.221	21.300	72.077
ATOM	4040	O	LEU	4	58	-42.482	22.477	72.288
ATOM	4041	CB	LEU	4	58	-43.027	19.522	73.673
ATOM	4042	CG	LEU	4	58	-44.099	18.600	74.221
ATOM	4043	CD1	LEU	4	58	-43.496	17.721	75.316
ATOM	4044	CD2	LEU	4	58	-45.230	19.444	74.805
ATOM	4045	H	LEU	4	58	-42.641	18.266	71.399
ATOM	4046	N	THR	4	59	-41.050	20.825	71.646
ATOM	4047	CA	THR	4	59	-39.937	21.762	71.365
ATOM	4048	C	THR	4	59	-39.122	21.306	70.176
ATOM	4049	O	THR	4	59	-39.406	20.272	69.568
ATOM	4050	CB	THR	4	59	-39.092	21.939	72.683
ATOM	4051	OG1	THR	4	59	-38.149	23.022	72.441
ATOM	4052	CG2	THR	4	59	-38.432	20.639	73.154
ATOM	4053	H	THR	4	59	-40.912	19.753	71.503
ATOM	4054	HG1	THR	4	59	-37.540	23.180	73.332
ATOM	4055	N	THR	4	60	-38.117	22.076	69.839
ATOM	4056	CA	THR	4	60	-37.123	21.839	68.804
ATOM	4057	C	THR	4	60	-35.733	21.809	69.458
ATOM	4058	O	THR	4	60	-35.592	22.318	70.591
ATOM	4059	CB	THR	4	60	-37.160	22.927	67.665
ATOM	4060	OG1	THR	4	60	-36.769	24.209	68.287
ATOM	4061	CG2	THR	4	60	-38.508	23.053	66.969
ATOM	4062	H	THR	4	60	-38.014	23.004	70.401
ATOM	4063	HG1	THR	4	60	-36.780	24.997	67.534
ATOM	4064	N	GLU	4	61	-34.769	21.257	68.745
ATOM	4065	CA	GLU	4	61	-33.417	21.153	69.308
ATOM	4066	C	GLU	4	61	-32.815	22.522	69.494
ATOM	4067	O	GLU	4	61	-31.963	22.641	70.425
ATOM	4068	CB	GLU	4	61	-32.472	20.256	68.523
ATOM	4069	CG	GLU	4	61	-33.049	18.970	67.928
ATOM	4070	CD	GLU	4	61	-32.204	17.742	67.945
ATOM	4071	OE1	GLU	4	61	-31.013	17.685	67.703
ATOM	4072	OE2	GLU	4	61	-32.872	16.716	68.258
ATOM	4073	H	GLU	4	61	-34.975	20.881	67.742
ATOM	4074	N	GLU	4	62	-33.216	23.523	68.710
ATOM	4075	CA	GLU	4	62	-32.594	24.849	68.846
ATOM	4076	C	GLU	4	62	-33.051	25.591	70.089
ATOM	4077	O	GLU	4	62	-32.271	26.351	70.717
ATOM	4078	CB	GLU	4	62	-32.835	25.767	67.650
ATOM	4079	CG	GLU	4	62	-32.070	25.413	66.383
ATOM	4080	CD	GLU	4	62	-30.681	24.881	66.559

ATOM	4081	OE1	GLU	4	62	-30.382	23.701	66.703
ATOM	4082	OE2	GLU	4	62	-29.823	25.802	66.540
ATOM	4083	H	GLU	4	62	-34.000	23.360	67.971
ATOM	4084	N	GLU	4	63	-34.301	25.358	70.423
ATOM	4085	CA	GLU	4	63	-34.977	25.952	71.566
ATOM	4086	C	GLU	4	63	-34.620	25.210	72.858
ATOM	4087	O	GLU	4	63	-34.521	25.858	73.910
ATOM	4088	CB	GLU	4	63	-36.511	25.993	71.376
ATOM	4089	CG	GLU	4	63	-37.145	27.077	72.194
ATOM	4090	CD	GLU	4	63	-38.616	27.062	72.428
ATOM	4091	OE1	GLU	4	63	-39.318	26.052	72.472
ATOM	4092	OE2	GLU	4	63	-39.165	28.274	72.621
ATOM	4093	H	GLU	4	63	-34.872	24.669	69.801
ATOM	4094	N	PHE	4	64	-34.383	23.922	72.756
ATOM	4095	CA	PHE	4	64	-34.146	23.088	73.948
ATOM	4096	C	PHE	4	64	-32.717	23.226	74.462
ATOM	4097	O	PHE	4	64	-31.904	22.316	74.270
ATOM	4098	CB	PHE	4	64	-34.569	21.638	73.742
ATOM	4099	CG	PHE	4	64	-34.906	20.880	74.999
ATOM	4100	CD1	PHE	4	64	-35.704	21.460	75.985
ATOM	4101	CD2	PHE	4	64	-34.433	19.581	75.181
ATOM	4102	CE1	PHE	4	64	-36.030	20.747	77.149
ATOM	4103	CE2	PHE	4	64	-34.740	18.857	76.323
ATOM	4104	CZ	PHE	4	64	-35.549	19.445	77.303
ATOM	4105	H	PHE	4	64	-34.363	23.459	71.769
ATOM	4106	N	VAL	4	65	-32.472	24.328	75.157
ATOM	4107	CA	VAL	4	65	-31.086	24.548	75.680
ATOM	4108	C	VAL	4	65	-30.987	23.973	77.085
ATOM	4109	O	VAL	4	65	-32.004	23.635	77.706
ATOM	4110	CB	VAL	4	65	-30.747	26.029	75.516
ATOM	4111	CG1	VAL	4	65	-30.829	26.471	74.053
ATOM	4112	CG2	VAL	4	65	-31.599	26.945	76.377
ATOM	4113	H	VAL	4	65	-33.260	25.057	75.343
ATOM	4114	N	GLU	4	66	-29.768	23.867	77.552
ATOM	4115	CA	GLU	4	66	-29.439	23.424	78.908
ATOM	4116	C	GLU	4	66	-30.189	24.272	79.904
ATOM	4117	O	GLU	4	66	-30.200	25.520	79.814
ATOM	4118	CB	GLU	4	66	-27.925	23.556	79.161
ATOM	4119	CG	GLU	4	66	-27.112	22.375	78.650
ATOM	4120	CD	GLU	4	66	-25.646	22.390	78.954
ATOM	4121	OE1	GLU	4	66	-24.926	23.360	78.818
ATOM	4122	OE2	GLU	4	66	-25.267	21.260	79.356
ATOM	4123	H	GLU	4	66	-28.944	24.126	76.887
ATOM	4124	N	GLY	4	67	-30.834	23.630	80.869
ATOM	4125	CA	GLY	4	67	-31.608	24.375	81.889
ATOM	4126	C	GLY	4	67	-32.330	23.352	82.770
ATOM	4127	O	GLY	4	67	-32.149	22.151	82.590
ATOM	4128	H	GLY	4	67	-30.793	22.542	80.912
ATOM	4129	N	ILE	4	68	-33.091	23.878	83.699
ATOM	4130	CA	ILE	4	68	-33.917	23.006	84.582
ATOM	4131	C	ILE	4	68	-35.327	23.062	84.023
ATOM	4132	O	ILE	4	68	-35.883	24.158	83.792
ATOM	4133	CB	ILE	4	68	-33.766	23.448	86.077
ATOM	4134	CG1	ILE	4	68	-32.286	23.329	86.513
ATOM	4135	CG2	ILE	4	68	-34.677	22.598	86.999
ATOM	4136	CD1	ILE	4	68	-31.958	23.836	87.945
ATOM	4137	H	ILE	4	68	-33.122	24.960	83.826
ATOM	4138	N	TYR	4	69	-35.916	21.892	83.783
ATOM	4139	CA	TYR	4	69	-37.283	21.822	83.279
ATOM	4140	C	TYR	4	69	-38.195	21.115	84.261
ATOM	4141	O	TYR	4	69	-37.757	20.253	85.040
ATOM	4142	CB	TYR	4	69	-37.322	21.129	81.884
ATOM	4143	CG	TYR	4	69	-36.555	21.908	80.838

ATOM	4144	CD1	TYR	4	69	-35.166	21.841	80.724
ATOM	4145	CD2	TYR	4	69	-37.258	22.731	79.954
ATOM	4146	CE1	TYR	4	69	-34.519	22.607	79.730
ATOM	4147	CE2	TYR	4	69	-36.628	23.476	78.966
ATOM	4148	CZ	TYR	4	69	-35.252	23.411	78.867
ATOM	4149	OH	TYR	4	69	-34.628	24.154	77.894
ATOM	4150	H	TYR	4	69	-35.366	20.969	83.970
ATOM	4151	HH	TYR	4	69	-35.374	24.711	77.328
ATOM	4152	N	LYS	4	70	-39.456	21.501	84.166
ATOM	4153	CA	LYS	4	70	-40.513	20.862	84.992
ATOM	4154	C	LYS	4	70	-41.645	20.459	84.058
ATOM	4155	O	LYS	4	70	-42.103	21.311	83.257
ATOM	4156	CB	LYS	4	70	-41.041	21.791	86.082
ATOM	4157	CG	LYS	4	70	-42.249	21.186	86.825
ATOM	4158	CD	LYS	4	70	-42.589	21.978	88.081
ATOM	4159	CE	LYS	4	70	-43.316	23.246	87.711
ATOM	4160	NZ	LYS	4	70	-43.801	23.932	88.962
ATOM	4161	H	LYS	4	70	-39.723	22.297	83.471
ATOM	4162	HZ1	LYS	4	70	-44.326	24.849	88.693
ATOM	4163	HZ2	LYS	4	70	-42.948	24.174	89.597
ATOM	4164	HZ3	LYS	4	70	-44.478	23.269	89.499
ATOM	4165	N	VAL	4	71	-42.032	19.201	84.143
ATOM	4166	CA	VAL	4	71	-43.163	18.667	83.379
ATOM	4167	C	VAL	4	71	-44.264	18.436	84.439
ATOM	4168	O	VAL	4	71	-43.986	17.672	85.376
ATOM	4169	CB	VAL	4	71	-42.814	17.369	82.645
ATOM	4170	CG1	VAL	4	71	-44.056	16.692	82.044
ATOM	4171	CG2	VAL	4	71	-41.760	17.529	81.582
ATOM	4172	H	VAL	4	71	-41.489	18.531	84.810
ATOM	4173	N	GLU	4	72	-45.382	19.062	84.243
ATOM	4174	CA	GLU	4	72	-46.552	18.950	85.153
ATOM	4175	C	GLU	4	72	-47.661	18.271	84.375
ATOM	4176	O	GLU	4	72	-48.048	18.738	83.273
ATOM	4177	CB	GLU	4	72	-46.966	20.291	85.659
ATOM	4178	CG	GLU	4	72	-48.185	20.501	86.558
ATOM	4179	CD	GLU	4	72	-47.960	21.679	87.501
ATOM	4180	OE1	GLU	4	72	-46.991	21.761	88.244
ATOM	4181	OE2	GLU	4	72	-48.833	22.541	87.415
ATOM	4182	H	GLU	4	72	-45.469	19.705	83.367
ATOM	4183	N	ILE	4	73	-48.136	17.176	84.910
ATOM	4184	CA	ILE	4	73	-49.186	16.350	84.298
ATOM	4185	C	ILE	4	73	-50.453	16.461	85.114
ATOM	4186	O	ILE	4	73	-50.419	16.106	86.316
ATOM	4187	CB	ILE	4	73	-48.668	14.871	84.172
ATOM	4188	CG1	ILE	4	73	-47.362	14.894	83.321
ATOM	4189	CG2	ILE	4	73	-49.723	13.883	83.635
ATOM	4190	CD1	ILE	4	73	-46.492	13.627	83.398
ATOM	4191	H	ILE	4	73	-47.727	16.856	85.868
ATOM	4192	N	ASP	4	74	-51.522	16.891	84.467
ATOM	4193	CA	ASP	4	74	-52.808	17.075	85.165
ATOM	4194	C	ASP	4	74	-53.539	15.762	85.348
ATOM	4195	O	ASP	4	74	-54.499	15.414	84.641
ATOM	4196	CB	ASP	4	74	-53.672	18.150	84.481
ATOM	4197	CG	ASP	4	74	-54.962	18.380	85.278
ATOM	4198	OD1	ASP	4	74	-55.111	17.956	86.432
ATOM	4199	OD2	ASP	4	74	-55.842	19.021	84.672
ATOM	4200	H	ASP	4	74	-51.451	17.114	83.402
ATOM	4201	N	THR	4	75	-53.074	15.020	86.364
ATOM	4202	CA	THR	4	75	-53.657	13.721	86.697
ATOM	4203	C	THR	4	75	-55.005	13.800	87.396
ATOM	4204	O	THR	4	75	-55.841	12.905	87.194
ATOM	4205	CB	THR	4	75	-52.584	12.921	87.551
ATOM	4206	OG1	THR	4	75	-52.440	13.707	88.773

ATOM	4207	CG2	THR	4	75	-51.276	12.769	86.783
ATOM	4208	H	THR	4	75	-52.239	15.395	86.956
ATOM	4209	HG1	THR	4	75	-51.713	13.228	89.429
ATOM	4210	N	LYS	4	76	-55.207	14.825	88.186
ATOM	4211	CA	LYS	4	76	-56.461	14.983	88.945
ATOM	4212	C	LYS	4	76	-57.641	15.017	87.971
ATOM	4213	O	LYS	4	76	-58.645	14.314	88.173
ATOM	4214	CB	LYS	4	76	-56.389	16.189	89.860
ATOM	4215	CG	LYS	4	76	-57.491	16.196	90.917
ATOM	4216	CD	LYS	4	76	-57.368	17.409	91.845
ATOM	4217	CE	LYS	4	76	-58.465	17.449	92.872
ATOM	4218	NZ	LYS	4	76	-58.145	18.352	94.006
ATOM	4219	H	LYS	4	76	-54.427	15.580	88.285
ATOM	4220	HZ1	LYS	4	76	-58.969	18.345	94.719
ATOM	4221	HZ2	LYS	4	76	-57.996	19.365	93.632
ATOM	4222	HZ3	LYS	4	76	-57.235	18.009	94.498
ATOM	4223	N	SER	4	77	-57.495	15.773	86.902
ATOM	4224	CA	SER	4	77	-58.490	15.953	85.849
ATOM	4225	C	SER	4	77	-58.854	14.647	85.161
ATOM	4226	O	SER	4	77	-60.042	14.367	84.909
ATOM	4227	CB	SER	4	77	-57.958	16.909	84.771
ATOM	4228	OG	SER	4	77	-58.107	18.253	85.142
ATOM	4229	H	SER	4	77	-56.552	16.310	86.794
ATOM	4230	HG	SER	4	77	-57.717	18.893	84.351
ATOM	4231	N	TYR	4	78	-57.831	13.897	84.830
ATOM	4232	CA	TYR	4	78	-57.963	12.567	84.200
ATOM	4233	C	TYR	4	78	-58.832	11.621	84.977
ATOM	4234	O	TYR	4	78	-59.793	11.031	84.415
ATOM	4235	CB	TYR	4	78	-56.540	11.994	83.950
ATOM	4236	CG	TYR	4	78	-56.584	10.598	83.350
ATOM	4237	CD1	TYR	4	78	-56.911	10.473	81.998
ATOM	4238	CD2	TYR	4	78	-56.358	9.445	84.096
ATOM	4239	CE1	TYR	4	78	-56.982	9.246	81.382
ATOM	4240	CE2	TYR	4	78	-56.433	8.194	83.499
ATOM	4241	CZ	TYR	4	78	-56.746	8.086	82.138
ATOM	4242	OH	TYR	4	78	-56.818	6.865	81.558
ATOM	4243	H	TYR	4	78	-56.829	14.275	85.031
ATOM	4244	HH	TYR	4	78	-56.605	6.097	82.301
ATOM	4245	N	TRP	4	79	-58.542	11.428	86.262
ATOM	4246	CA	TRP	4	79	-59.271	10.543	87.153
ATOM	4247	C	TRP	4	79	-60.699	11.038	87.395
ATOM	4248	O	TRP	4	79	-61.600	10.176	87.476
ATOM	4249	CB	TRP	4	79	-58.559	10.275	88.504
ATOM	4250	CG	TRP	4	79	-57.250	9.574	88.265
ATOM	4251	CD1	TRP	4	79	-55.995	10.079	88.430
ATOM	4252	CD2	TRP	4	79	-57.096	8.239	87.779
ATOM	4253	NE1	TRP	4	79	-55.063	9.132	88.100
ATOM	4254	CE2	TRP	4	79	-55.684	7.996	87.676
ATOM	4255	CE3	TRP	4	79	-57.986	7.233	87.413
ATOM	4256	CZ2	TRP	4	79	-55.204	6.785	87.238
ATOM	4257	CZ3	TRP	4	79	-57.460	6.007	86.972
ATOM	4258	CH2	TRP	4	79	-56.093	5.814	86.865
ATOM	4259	H	TRP	4	79	-57.696	11.976	86.676
ATOM	4260	HE1	TRP	4	79	-53.984	9.266	88.168
ATOM	4261	N	LYS	4	80	-60.875	12.323	87.496
ATOM	4262	CA	LYS	4	80	-62.223	12.893	87.719
ATOM	4263	C	LYS	4	80	-63.140	12.576	86.549
ATOM	4264	O	LYS	4	80	-64.337	12.330	86.780
ATOM	4265	CB	LYS	4	80	-62.141	14.378	88.069
ATOM	4266	CG	LYS	4	80	-61.856	14.550	89.575
ATOM	4267	CD	LYS	4	80	-61.550	15.941	90.020
ATOM	4268	CE	LYS	4	80	-62.166	17.050	89.210
ATOM	4269	NZ	LYS	4	80	-62.094	18.332	89.965

ATOM	4270	H	LYS	4	80	-60.017	12.990	87.417
ATOM	4271	HZ1	LYS	4	80	-62.542	19.129	89.371
ATOM	4272	HZ2	LYS	4	80	-61.051	18.575	90.170
ATOM	4273	HZ3	LYS	4	80	-62.636	18.232	90.905
ATOM	4274	N	ALA	4	81	-62.606	12.552	85.353
ATOM	4275	CA	ALA	4	81	-63.397	12.216	84.146
ATOM	4276	C	ALA	4	81	-63.791	10.752	84.144
ATOM	4277	O	ALA	4	81	-64.795	10.381	83.500
ATOM	4278	CB	ALA	4	81	-62.666	12.594	82.882
ATOM	4279	H	ALA	4	81	-61.547	12.786	85.243
ATOM	4280	N	LEU	4	82	-63.031	9.930	84.852
ATOM	4281	CA	LEU	4	82	-63.285	8.500	84.982
ATOM	4282	C	LEU	4	82	-64.172	8.190	86.184
ATOM	4283	O	LEU	4	82	-64.574	7.050	86.426
ATOM	4284	CB	LEU	4	82	-61.919	7.783	84.977
ATOM	4285	CG	LEU	4	82	-61.319	7.455	83.609
ATOM	4286	CD1	LEU	4	82	-61.161	8.662	82.715
ATOM	4287	CD2	LEU	4	82	-59.933	6.834	83.844
ATOM	4288	H	LEU	4	82	-62.165	10.346	85.367
ATOM	4289	N	GLY	4	83	-64.448	9.229	86.950
ATOM	4290	CA	GLY	4	83	-65.299	9.156	88.139
ATOM	4291	C	GLY	4	83	-64.561	8.539	89.305
ATOM	4292	O	GLY	4	83	-65.183	7.926	90.185
ATOM	4293	H	GLY	4	83	-64.020	10.194	86.682
ATOM	4294	N	ILE	4	84	-63.238	8.715	89.271
ATOM	4295	CA	ILE	4	84	-62.396	8.104	90.345
ATOM	4296	C	ILE	4	84	-61.767	9.246	91.124
ATOM	4297	O	ILE	4	84	-61.318	10.237	90.520
ATOM	4298	CB	ILE	4	84	-61.371	7.097	89.765
ATOM	4299	CG1	ILE	4	84	-62.074	5.970	88.963
ATOM	4300	CG2	ILE	4	84	-60.475	6.477	90.883
ATOM	4301	CD1	ILE	4	84	-61.105	5.166	88.038
ATOM	4302	H	ILE	4	84	-62.778	9.297	88.472
ATOM	4303	N	SER	4	85	-61.750	9.106	92.422
ATOM	4304	CA	SER	4	85	-61.286	10.159	93.344
ATOM	4305	C	SER	4	85	-59.791	9.943	93.595
ATOM	4306	O	SER	4	85	-59.478	9.006	94.337
ATOM	4307	CB	SER	4	85	-62.091	10.061	94.651
ATOM	4308	OG	SER	4	85	-61.929	11.300	95.352
ATOM	4309	H	SER	4	85	-62.097	8.163	92.845
ATOM	4310	HG	SER	4	85	-62.489	11.265	96.287
ATOM	4311	N	PRO	4	86	-58.994	10.771	92.982
ATOM	4312	CA	PRO	4	86	-57.523	10.677	93.079
ATOM	4313	C	PRO	4	86	-56.919	11.301	94.307
ATOM	4314	O	PRO	4	86	-57.542	12.137	94.999
ATOM	4315	CB	PRO	4	86	-57.122	11.411	91.783
ATOM	4316	CG	PRO	4	86	-58.056	12.603	91.802
ATOM	4317	CD	PRO	4	86	-59.390	12.014	92.267
ATOM	4318	N	PHE	4	87	-55.681	10.954	94.591
ATOM	4319	CA	PHE	4	87	-54.910	11.470	95.726
ATOM	4320	C	PHE	4	87	-54.130	12.729	95.339
ATOM	4321	O	PHE	4	87	-54.246	13.736	96.077
ATOM	4322	CB	PHE	4	87	-54.025	10.418	96.356
ATOM	4323	CG	PHE	4	87	-53.156	10.922	97.473
ATOM	4324	CD1	PHE	4	87	-53.636	11.042	98.766
ATOM	4325	CD2	PHE	4	87	-51.824	11.259	97.180
ATOM	4326	CE1	PHE	4	87	-52.811	11.505	99.785
ATOM	4327	CE2	PHE	4	87	-50.982	11.729	98.184
ATOM	4328	CZ	PHE	4	87	-51.482	11.823	99.494
ATOM	4329	H	PHE	4	87	-55.195	10.232	93.936
ATOM	4330	N	HIS	4	88	-53.388	12.697	94.259
ATOM	4331	CA	HIS	4	88	-52.509	13.757	93.810
ATOM	4332	C	HIS	4	88	-53.198	14.908	93.103

ATOM	4333	O	HIS	4	88	-54.188	14.672	92.390
ATOM	4334	CB	HIS	4	88	-51.351	13.248	92.872
ATOM	4335	CG	HIS	4	88	-50.645	12.135	93.548
ATOM	4336	ND1	HIS	4	88	-50.893	10.813	93.382
ATOM	4337	CD2	HIS	4	88	-49.625	12.216	94.465
ATOM	4338	CE1	HIS	4	88	-50.082	10.098	94.168
ATOM	4339	NE2	HIS	4	88	-49.327	10.928	94.819
ATOM	4340	H	HIS	4	88	-53.438	11.797	93.646
ATOM	4341	HD1	HIS	4	88	-51.641	10.394	92.710
ATOM	4342	N	GLU	4	89	-52.679	16.084	93.362
ATOM	4343	CA	GLU	4	89	-53.161	17.297	92.649
ATOM	4344	C	GLU	4	89	-52.671	17.209	91.218
ATOM	4345	O	GLU	4	89	-53.423	17.518	90.268
ATOM	4346	CB	GLU	4	89	-52.733	18.587	93.318
ATOM	4347	CG	GLU	4	89	-53.549	18.888	94.603
ATOM	4348	CD	GLU	4	89	-54.998	19.114	94.296
ATOM	4349	OE1	GLU	4	89	-55.365	19.986	93.536
ATOM	4350	OE2	GLU	4	89	-55.775	18.316	94.897
ATOM	4351	H	GLU	4	89	-51.888	16.174	94.106
ATOM	4352	N	HIS	4	90	-51.434	16.760	91.088
ATOM	4353	CA	HIS	4	90	-50.795	16.572	89.764
ATOM	4354	C	HIS	4	90	-49.533	15.753	89.912
ATOM	4355	O	HIS	4	90	-49.176	15.391	91.063
ATOM	4356	CB	HIS	4	90	-50.471	17.884	89.040
ATOM	4357	CG	HIS	4	90	-49.751	18.888	89.868
ATOM	4358	ND1	HIS	4	90	-50.252	20.064	90.316
ATOM	4359	CD2	HIS	4	90	-48.464	18.809	90.350
ATOM	4360	CE1	HIS	4	90	-49.340	20.701	91.036
ATOM	4361	NE2	HIS	4	90	-48.246	19.953	91.053
ATOM	4362	H	HIS	4	90	-50.864	16.521	91.985
ATOM	4363	HD1	HIS	4	90	-51.258	20.431	90.115
ATOM	4364	N	ALA	4	91	-48.898	15.405	88.813
ATOM	4365	CA	ALA	4	91	-47.579	14.695	88.845
ATOM	4366	C	ALA	4	91	-46.553	15.668	88.280
ATOM	4367	O	ALA	4	91	-46.843	16.309	87.262
ATOM	4368	CB	ALA	4	91	-47.585	13.384	88.105
ATOM	4369	H	ALA	4	91	-49.346	15.640	87.848
ATOM	4370	N	GLU	4	92	-45.383	15.816	88.886
ATOM	4371	CA	GLU	4	92	-44.388	16.779	88.443
ATOM	4372	C	GLU	4	92	-43.053	16.071	88.251
ATOM	4373	O	GLU	4	92	-42.738	15.248	89.104
ATOM	4374	CB	GLU	4	92	-44.127	17.927	89.419
ATOM	4375	CG	GLU	4	92	-45.251	18.837	89.803
ATOM	4376	CD	GLU	4	92	-45.027	19.967	90.744
ATOM	4377	OE1	GLU	4	92	-43.822	20.194	91.000
ATOM	4378	OE2	GLU	4	92	-45.958	20.612	91.199
ATOM	4379	H	GLU	4	92	-45.158	15.191	89.750
ATOM	4380	N	VAL	4	93	-42.387	16.392	87.173
ATOM	4381	CA	VAL	4	93	-41.039	15.794	86.868
ATOM	4382	C	VAL	4	93	-40.104	16.985	86.691
ATOM	4383	O	VAL	4	93	-40.370	17.811	85.792
ATOM	4384	CB	VAL	4	93	-41.144	14.863	85.657
ATOM	4385	CG1	VAL	4	93	-39.825	14.221	85.211
ATOM	4386	CG2	VAL	4	93	-42.196	13.757	85.831
ATOM	4387	H	VAL	4	93	-42.819	17.111	86.477
ATOM	4388	N	VAL	4	94	-39.098	17.097	87.513
ATOM	4389	CA	VAL	4	94	-38.101	18.163	87.491
ATOM	4390	C	VAL	4	94	-36.733	17.550	87.196
ATOM	4391	O	VAL	4	94	-36.284	16.672	87.937
ATOM	4392	CB	VAL	4	94	-38.139	19.001	88.789
ATOM	4393	CG1	VAL	4	94	-37.242	20.232	88.745
ATOM	4394	CG2	VAL	4	94	-39.566	19.402	89.143
ATOM	4395	H	VAL	4	94	-38.991	16.329	88.279

ATOM	4396	N	PHE	4	95	-36.123	18.041	86.123
ATOM	4397	CA	PHE	4	95	-34.787	17.519	85.725
ATOM	4398	C	PHE	4	95	-33.941	18.601	85.041
ATOM	4399	O	PHE	4	95	-34.463	19.608	84.590
ATOM	4400	CB	PHE	4	95	-34.964	16.319	84.773
ATOM	4401	CG	PHE	4	95	-35.575	16.689	83.445
ATOM	4402	CD1	PHE	4	95	-36.961	16.822	83.346
ATOM	4403	CD2	PHE	4	95	-34.796	16.884	82.322
ATOM	4404	CE1	PHE	4	95	-37.570	17.160	82.135
ATOM	4405	CE2	PHE	4	95	-35.371	17.228	81.093
ATOM	4406	CZ	PHE	4	95	-36.768	17.361	81.019
ATOM	4407	H	PHE	4	95	-36.601	18.824	85.534
ATOM	4408	N	THR	4	96	-32.631	18.299	84.995
ATOM	4409	CA	THR	4	96	-31.668	19.159	84.276
ATOM	4410	C	THR	4	96	-31.430	18.560	82.878
ATOM	4411	O	THR	4	96	-31.278	17.325	82.763
ATOM	4412	CB	THR	4	96	-30.300	19.347	85.010
ATOM	4413	OG1	THR	4	96	-30.567	20.004	86.294
ATOM	4414	CG2	THR	4	96	-29.275	20.167	84.221
ATOM	4415	H	THR	4	96	-32.272	17.402	85.498
ATOM	4416	HG1	THR	4	96	-29.629	20.148	86.831
ATOM	4417	N	ALA	4	97	-31.431	19.398	81.878
ATOM	4418	CA	ALA	4	97	-31.176	18.929	80.475
ATOM	4419	C	ALA	4	97	-29.720	19.299	80.233
ATOM	4420	O	ALA	4	97	-29.342	20.447	80.486
ATOM	4421	CB	ALA	4	97	-32.199	19.500	79.549
ATOM	4422	H	ALA	4	97	-31.620	20.456	82.064
ATOM	4423	N	ASN	4	98	-28.929	18.331	79.814
ATOM	4424	CA	ASN	4	98	-27.472	18.490	79.630
ATOM	4425	C	ASN	4	98	-27.049	18.094	78.221
ATOM	4426	O	ASN	4	98	-27.538	17.078	77.699
ATOM	4427	CB	ASN	4	98	-26.749	17.642	80.688
ATOM	4428	CG	ASN	4	98	-26.152	18.398	81.843
ATOM	4429	OD1	ASN	4	98	-26.733	18.540	82.929
ATOM	4430	ND2	ASN	4	98	-24.924	18.902	81.623
ATOM	4431	H	ASN	4	98	-29.376	17.362	79.591
ATOM	4432	HD2	ASN	4	98	-24.582	19.428	82.514
ATOM	4433	HD2	ASN	4	98	-24.358	18.799	80.697
ATOM	4434	N	ASP	4	99	-26.144	18.884	77.648
ATOM	4435	CA	ASP	4	99	-25.653	18.655	76.273
ATOM	4436	C	ASP	4	99	-24.718	17.457	76.219
ATOM	4437	O	ASP	4	99	-24.775	16.717	75.212
ATOM	4438	CB	ASP	4	99	-25.080	19.927	75.632
ATOM	4439	CG	ASP	4	99	-26.199	20.800	75.084
ATOM	4440	OD1	ASP	4	99	-27.364	20.373	75.035
ATOM	4441	OD2	ASP	4	99	-25.898	21.939	74.696
ATOM	4442	H	ASP	4	99	-25.751	19.729	78.214
ATOM	4443	N	SER	4	100	-23.917	17.268	77.235
ATOM	4444	CA	SER	4	100	-22.997	16.118	77.327
ATOM	4445	C	SER	4	100	-23.683	14.824	76.909
ATOM	4446	O	SER	4	100	-23.349	14.209	75.872
ATOM	4447	CB	SER	4	100	-22.450	15.990	78.744
ATOM	4448	OG	SER	4	100	-21.727	17.135	79.149
ATOM	4449	H	SER	4	100	-23.927	17.993	78.049
ATOM	4450	HG	SER	4	100	-21.359	16.993	80.165
ATOM	4451	N	GLY	4	101	-24.647	14.420	77.710
ATOM	4452	CA	GLY	4	101	-25.381	13.173	77.533
ATOM	4453	C	GLY	4	101	-26.189	13.110	76.246
ATOM	4454	O	GLY	4	101	-26.196	14.041	75.425
ATOM	4455	H	GLY	4	101	-24.913	15.056	78.554
ATOM	4456	N	PRO	4	102	-26.858	11.961	76.113
ATOM	4457	CA	PRO	4	102	-27.789	11.710	75.006
ATOM	4458	C	PRO	4	102	-28.786	12.854	74.844

ATOM	4459	O	PRO	4	102	-29.133	13.552	75.812
ATOM	4460	CB	PRO	4	102	-28.433	10.396	75.393
ATOM	4461	CG	PRO	4	102	-27.430	9.667	76.240
ATOM	4462	CD	PRO	4	102	-26.398	10.666	76.692
ATOM	4463	N	ARG	4	103	-29.277	12.997	73.623
ATOM	4464	CA	ARG	4	103	-30.082	14.142	73.192
ATOM	4465	C	ARG	4	103	-31.574	14.026	73.205
ATOM	4466	O	ARG	4	103	-32.266	15.081	73.271
ATOM	4467	CB	ARG	4	103	-29.566	14.534	71.765
ATOM	4468	CG	ARG	4	103	-28.047	14.425	71.708
ATOM	4469	CD	ARG	4	103	-27.465	14.857	70.404
ATOM	4470	NE	ARG	4	103	-26.367	13.981	70.013
ATOM	4471	CZ	ARG	4	103	-25.337	13.625	70.771
ATOM	4472	NH1	ARG	4	103	-25.178	14.124	71.996
ATOM	4473	NH2	ARG	4	103	-24.419	12.764	70.314
ATOM	4474	H	ARG	4	103	-29.069	12.214	72.894
ATOM	4475	HE	ARG	4	103	-26.394	13.580	69.000
ATOM	4476	HH1	ARG	4	103	-24.277	13.705	72.444
ATOM	4477	HH1	ARG	4	103	-25.845	14.840	72.475
ATOM	4478	HH2	ARG	4	103	-23.660	12.602	71.080
ATOM	4479	HH2	ARG	4	103	-24.427	12.298	69.328
ATOM	4480	N	ARG	4	104	-32.125	12.838	73.170
ATOM	4481	CA	ARG	4	104	-33.575	12.596	73.165
ATOM	4482	C	ARG	4	104	-34.001	12.152	74.581
ATOM	4483	O	ARG	4	104	-33.395	11.239	75.143
ATOM	4484	CB	ARG	4	104	-33.992	11.534	72.170
ATOM	4485	CG	ARG	4	104	-35.395	11.512	71.645
ATOM	4486	CD	ARG	4	104	-36.451	12.055	72.534
ATOM	4487	NE	ARG	4	104	-37.778	11.554	72.274
ATOM	4488	CZ	ARG	4	104	-38.376	11.394	71.099
ATOM	4489	NH1	ARG	4	104	-37.795	11.701	69.949
ATOM	4490	NH2	ARG	4	104	-39.614	10.880	71.062
ATOM	4491	H	ARG	4	104	-31.464	11.972	73.143
ATOM	4492	HE	ARG	4	104	-38.362	11.270	73.149
ATOM	4493	HH1	ARG	4	104	-38.477	11.484	69.127
ATOM	4494	HH1	ARG	4	104	-36.790	12.109	69.842
ATOM	4495	HH2	ARG	4	104	-39.951	10.818	70.027
ATOM	4496	HH2	ARG	4	104	-40.194	10.572	71.932
ATOM	4497	N	TYR	4	105	-35.023	12.821	75.074
ATOM	4498	CA	TYR	4	105	-35.569	12.568	76.401
ATOM	4499	C	TYR	4	105	-36.996	12.044	76.320
ATOM	4500	O	TYR	4	105	-37.854	12.747	75.741
ATOM	4501	CB	TYR	4	105	-35.574	13.841	77.278
ATOM	4502	CG	TYR	4	105	-34.237	14.383	77.696
ATOM	4503	CD1	TYR	4	105	-33.513	15.238	76.859
ATOM	4504	CD2	TYR	4	105	-33.665	14.060	78.936
ATOM	4505	CE1	TYR	4	105	-32.278	15.745	77.224
ATOM	4506	CE2	TYR	4	105	-32.434	14.572	79.319
ATOM	4507	CZ	TYR	4	105	-31.739	15.406	78.462
ATOM	4508	OH	TYR	4	105	-30.515	15.948	78.774
ATOM	4509	H	TYR	4	105	-35.481	13.598	74.462
ATOM	4510	HH	TYR	4	105	-30.208	15.607	79.763
ATOM	4511	N	THR	4	106	-37.214	10.866	76.873
ATOM	4512	CA	THR	4	106	-38.572	10.309	76.965
ATOM	4513	C	THR	4	106	-38.943	10.260	78.462
ATOM	4514	O	THR	4	106	-38.232	9.661	79.276
ATOM	4515	CB	THR	4	106	-38.806	8.919	76.302
ATOM	4516	OG1	THR	4	106	-38.343	9.012	74.936
ATOM	4517	CG2	THR	4	106	-40.268	8.428	76.390
ATOM	4518	H	THR	4	106	-36.373	10.296	77.267
ATOM	4519	HG1	THR	4	106	-38.491	8.054	74.437
ATOM	4520	N	ILE	4	107	-40.041	10.936	78.741
ATOM	4521	CA	ILE	4	107	-40.582	10.955	80.128

ATOM	4522	C	ILE	4	107	-41.859	10.126	80.128
ATOM	4523	O	ILE	4	107	-42.827	10.511	79.424
ATOM	4524	CB	ILE	4	107	-40.759	12.414	80.632
ATOM	4525	CG1	ILE	4	107	-39.376	13.135	80.626
ATOM	4526	CG2	ILE	4	107	-41.450	12.485	82.030
ATOM	4527	CD1	ILE	4	107	-39.536	14.660	80.523
ATOM	4528	H	ILE	4	107	-40.556	11.482	77.951
ATOM	4529	N	ALA	4	108	-41.863	9.061	80.871
ATOM	4530	CA	ALA	4	108	-43.050	8.141	80.897
ATOM	4531	C	ALA	4	108	-43.638	8.230	82.288
ATOM	4532	O	ALA	4	108	-42.853	8.362	83.256
ATOM	4533	CB	ALA	4	108	-42.651	6.786	80.414
ATOM	4534	H	ALA	4	108	-40.992	8.831	81.484
ATOM	4535	N	ALA	4	109	-44.927	8.204	82.420
ATOM	4536	CA	ALA	4	109	-45.653	8.276	83.709
ATOM	4537	C	ALA	4	109	-46.674	7.169	83.690
ATOM	4538	O	ALA	4	109	-47.358	6.978	82.648
ATOM	4539	CB	ALA	4	109	-46.226	9.678	83.870
ATOM	4540	H	ALA	4	109	-45.523	8.121	81.511
ATOM	4541	N	LEU	4	110	-46.767	6.393	84.751
ATOM	4542	CA	LEU	4	110	-47.733	5.315	84.943
ATOM	4543	C	LEU	4	110	-48.666	5.755	86.073
ATOM	4544	O	LEU	4	110	-48.195	5.952	87.212
ATOM	4545	CB	LEU	4	110	-47.063	3.987	85.215
ATOM	4546	CG	LEU	4	110	-48.011	2.821	85.442
ATOM	4547	CD1	LEU	4	110	-48.681	2.353	84.135
ATOM	4548	CD2	LEU	4	110	-47.297	1.654	86.094
ATOM	4549	H	LEU	4	110	-46.058	6.571	85.559
ATOM	4550	N	LEU	4	111	-49.944	5.886	85.760
ATOM	4551	CA	LEU	4	111	-50.870	6.491	86.740
ATOM	4552	C	LEU	4	111	-51.819	5.492	87.386
ATOM	4553	O	LEU	4	111	-52.382	4.628	86.692
ATOM	4554	CB	LEU	4	111	-51.633	7.566	85.921
ATOM	4555	CG	LEU	4	111	-50.878	8.603	85.129
ATOM	4556	CD1	LEU	4	111	-51.957	9.639	84.593
ATOM	4557	CD2	LEU	4	111	-49.902	9.391	85.959
ATOM	4558	H	LEU	4	111	-50.311	5.551	84.789
ATOM	4559	N	SER	4	112	-51.973	5.662	88.681
ATOM	4560	CA	SER	4	112	-52.991	4.946	89.465
ATOM	4561	C	SER	4	112	-53.603	6.083	90.325
ATOM	4562	O	SER	4	112	-53.018	7.152	90.491
ATOM	4563	CB	SER	4	112	-52.482	3.816	90.293
ATOM	4564	OG	SER	4	112	-52.039	2.700	89.548
ATOM	4565	H	SER	4	112	-51.319	6.365	89.196
ATOM	4566	HG	SER	4	112	-51.686	1.926	90.230
ATOM	4567	N	PRO	4	113	-54.768	5.777	90.901
ATOM	4568	CA	PRO	4	113	-55.460	6.826	91.688
ATOM	4569	C	PRO	4	113	-54.624	7.307	92.854
ATOM	4570	O	PRO	4	113	-54.606	8.525	93.112
ATOM	4571	CB	PRO	4	113	-56.793	6.152	92.029
ATOM	4572	CG	PRO	4	113	-57.040	5.280	90.834
ATOM	4573	CD	PRO	4	113	-55.689	4.737	90.415
ATOM	4574	N	TYR	4	114	-53.937	6.393	93.550
ATOM	4575	CA	TYR	4	114	-53.104	6.778	94.711
ATOM	4576	C	TYR	4	114	-51.606	6.575	94.531
ATOM	4577	O	TYR	4	114	-50.862	6.625	95.554
ATOM	4578	CB	TYR	4	114	-53.543	5.975	95.955
ATOM	4579	CG	TYR	4	114	-54.812	6.567	96.564
ATOM	4580	CD1	TYR	4	114	-55.997	6.355	95.899
ATOM	4581	CD2	TYR	4	114	-54.809	7.304	97.748
ATOM	4582	CE1	TYR	4	114	-57.207	6.847	96.385
ATOM	4583	CE2	TYR	4	114	-55.999	7.823	98.263
ATOM	4584	CZ	TYR	4	114	-57.185	7.591	97.580

ATOM	4585	OH	TYR	4	114	-58.414	8.034	97.998
ATOM	4586	H	TYR	4	114	-53.992	5.345	93.255
ATOM	4587	HH	TYR	4	114	-58.301	8.596	98.925
ATOM	4588	N	SER	4	115	-51.189	6.349	93.317
ATOM	4589	CA	SER	4	115	-49.746	6.092	93.051
ATOM	4590	C	SER	4	115	-49.390	6.588	91.667
ATOM	4591	O	SER	4	115	-50.276	6.731	90.828
ATOM	4592	CB	SER	4	115	-49.522	4.597	93.174
ATOM	4593	OG	SER	4	115	-48.192	4.180	93.078
ATOM	4594	H	SER	4	115	-51.900	6.347	92.491
ATOM	4595	HG	SER	4	115	-48.143	3.096	93.179
ATOM	4596	N	TYR	4	116	-48.131	6.929	91.444
ATOM	4597	CA	TYR	4	116	-47.664	7.184	90.066
ATOM	4598	C	TYR	4	116	-46.156	6.855	90.077
ATOM	4599	O	TYR	4	116	-45.510	7.034	91.072
ATOM	4600	CB	TYR	4	116	-47.970	8.528	89.486
ATOM	4601	CG	TYR	4	116	-47.251	9.712	90.049
ATOM	4602	CD1	TYR	4	116	-45.966	10.090	89.648
ATOM	4603	CD2	TYR	4	116	-47.888	10.482	91.032
ATOM	4604	CE1	TYR	4	116	-45.333	11.184	90.187
ATOM	4605	CE2	TYR	4	116	-47.267	11.605	91.577
ATOM	4606	CZ	TYR	4	116	-45.993	11.945	91.148
ATOM	4607	OH	TYR	4	116	-45.435	13.060	91.715
ATOM	4608	H	TYR	4	116	-47.438	7.023	92.280
ATOM	4609	HH	TYR	4	116	-46.131	13.489	92.436
ATOM	4610	N	SER	4	117	-45.735	6.397	88.923
ATOM	4611	CA	SER	4	117	-44.269	6.076	88.762
ATOM	4612	C	SER	4	117	-43.814	6.911	87.566
ATOM	4613	O	SER	4	117	-44.644	7.154	86.678
ATOM	4614	CB	SER	4	117	-44.147	4.597	88.609
ATOM	4615	OG	SER	4	117	-42.893	4.168	88.121
ATOM	4616	H	SER	4	117	-46.430	6.252	88.096
ATOM	4617	HG	SER	4	117	-42.888	3.081	88.039
ATOM	4618	N	THR	4	118	-42.559	7.328	87.565
ATOM	4619	CA	THR	4	118	-42.108	8.086	86.344
ATOM	4620	C	THR	4	118	-40.727	7.591	86.022
ATOM	4621	O	THR	4	118	-39.988	7.326	87.011
ATOM	4622	CB	THR	4	118	-42.222	9.612	86.528
ATOM	4623	OG1	THR	4	118	-41.833	10.202	85.245
ATOM	4624	CG2	THR	4	118	-41.382	10.213	87.678
ATOM	4625	H	THR	4	118	-41.889	7.138	88.404
ATOM	4626	HG1	THR	4	118	-41.893	11.288	85.312
ATOM	4627	N	THR	4	119	-40.411	7.460	84.752
ATOM	4628	CA	THR	4	119	-39.061	7.036	84.353
ATOM	4629	C	THR	4	119	-38.579	7.969	83.235
ATOM	4630	O	THR	4	119	-39.430	8.532	82.549
ATOM	4631	CB	THR	4	119	-39.032	5.520	83.873
ATOM	4632	OG1	THR	4	119	-39.961	4.801	84.748
ATOM	4633	CG2	THR	4	119	-37.632	4.897	83.917
ATOM	4634	H	THR	4	119	-41.159	7.667	83.987
ATOM	4635	HG1	THR	4	119	-39.985	3.748	84.466
ATOM	4636	N	ALA	4	120	-37.306	8.107	83.067
ATOM	4637	CA	ALA	4	120	-36.688	8.890	81.995
ATOM	4638	C	ALA	4	120	-35.896	7.905	81.135
ATOM	4639	O	ALA	4	120	-35.224	7.021	81.706
ATOM	4640	CB	ALA	4	120	-35.802	9.959	82.599
ATOM	4641	H	ALA	4	120	-36.645	7.607	83.774
ATOM	4642	N	VAL	4	121	-36.038	8.023	79.842
ATOM	4643	CA	VAL	4	121	-35.195	7.222	78.900
ATOM	4644	C	VAL	4	121	-34.386	8.288	78.136
ATOM	4645	O	VAL	4	121	-35.009	9.077	77.417
ATOM	4646	CB	VAL	4	121	-36.048	6.322	78.022
ATOM	4647	CG1	VAL	4	121	-35.235	5.331	77.155

ATOM	4648	CG2	VAL	4	121	-37.113	5.534	78.786
ATOM	4649	H	VAL	4	121	-36.781	8.714	79.443
ATOM	4650	N	VAL	4	122	-33.088	8.297	78.292
ATOM	4651	CA	VAL	4	122	-32.196	9.275	77.602
ATOM	4652	C	VAL	4	122	-31.400	8.507	76.544
ATOM	4653	O	VAL	4	122	-30.702	7.537	76.922
ATOM	4654	CB	VAL	4	122	-31.374	10.011	78.651
ATOM	4655	CG1	VAL	4	122	-30.467	11.088	78.068
ATOM	4656	CG2	VAL	4	122	-32.295	10.582	79.731
ATOM	4657	H	VAL	4	122	-32.637	7.558	78.954
ATOM	4658	N	THR	4	123	-31.548	8.905	75.290
ATOM	4659	CA	THR	4	123	-30.896	8.178	74.192
ATOM	4660	C	THR	4	123	-30.279	9.102	73.149
ATOM	4661	O	THR	4	123	-30.506	10.307	73.149
ATOM	4662	CB	THR	4	123	-31.893	7.173	73.478
ATOM	4663	OG1	THR	4	123	-32.774	8.027	72.689
ATOM	4664	CG2	THR	4	123	-32.645	6.278	74.476
ATOM	4665	H	THR	4	123	-32.159	9.781	75.070
ATOM	4666	HG1	THR	4	123	-33.499	7.410	72.159
ATOM	4667	N	ASN	4	124	-29.497	8.450	72.295
ATOM	4668	CA	ASN	4	124	-28.759	9.091	71.193
ATOM	4669	C	ASN	4	124	-29.646	8.972	69.929
ATOM	4670	O	ASN	4	124	-29.918	9.976	69.261
ATOM	4671	CB	ASN	4	124	-27.385	8.506	71.002
ATOM	4672	CG	ASN	4	124	-26.245	9.045	71.811
ATOM	4673	OD1	ASN	4	124	-26.370	9.462	72.965
ATOM	4674	ND2	ASN	4	124	-25.046	9.042	71.188
ATOM	4675	H	ASN	4	124	-29.396	7.371	72.417
ATOM	4676	HD2	ASN	4	124	-24.289	9.451	71.856
ATOM	4677	HD2	ASN	4	124	-24.865	8.686	70.174
ATOM	4678	N	PRO	4	125	-30.046	7.724	69.696
ATOM	4679	CA	PRO	4	125	-30.895	7.385	68.558
ATOM	4680	C	PRO	4	125	-32.246	8.081	68.597
ATOM	4681	O	PRO	4	125	-32.391	9.207	69.105
ATOM	4682	CB	PRO	4	125	-31.009	5.869	68.574
ATOM	4683	CG	PRO	4	125	-30.200	5.374	69.731
ATOM	4684	CD	PRO	4	125	-29.283	6.514	70.124
ATOM	4685	N	LYS	4	126	-33.237	7.393	68.048
ATOM	4686	CA	LYS	4	126	-34.614	7.856	67.918
ATOM	4687	C	LYS	4	126	-35.540	7.213	68.948
ATOM	4688	O	LYS	4	126	-35.525	5.992	69.159
ATOM	4689	CB	LYS	4	126	-35.183	7.561	66.530
ATOM	4690	CG	LYS	4	126	-34.420	8.188	65.372
ATOM	4691	CD	LYS	4	126	-34.966	7.760	64.024
ATOM	4692	CE	LYS	4	126	-36.306	8.359	63.687
ATOM	4693	NZ	LYS	4	126	-37.399	7.749	64.479
ATOM	4694	H	LYS	4	126	-33.004	6.401	67.662
ATOM	4695	HZ1	LYS	4	126	-38.348	8.211	64.205
ATOM	4696	HZ2	LYS	4	126	-37.211	7.909	65.541
ATOM	4697	HZ3	LYS	4	126	-37.443	6.679	64.275
ATOM	4698	N	GLU	4	127	-36.338	8.064	69.559
ATOM	4699	CA	GLU	4	127	-37.322	7.711	70.578
ATOM	4700	C	GLU	4	127	-37.128	6.300	71.112
ATOM	4701	OCT	GLU	4	127	-37.598	6.070	72.250
ATOM	4702	CB	GLU	4	127	-38.752	7.815	70.044
ATOM	4703	CG	GLU	4	127	-39.212	6.785	69.025
ATOM	4704	CD	GLU	4	127	-40.190	7.235	67.986
ATOM	4705	OE1	GLU	4	127	-40.292	8.479	67.923
ATOM	4706	OE2	GLU	4	127	-40.821	6.477	67.264
ATOM	4707	OCT	GLU	4	127	-36.416	5.244	70.320
ATOM	4708	H	GLU	4	127	-36.257	9.116	69.283

TER

REMARK

REMARK binding modes found for 25 docking runs

REMARK

REMARK Cluster Rank = 1

REMARK Reference RMSD = 120.184 A

REMARK Internal Energy of Small Molecule = -2.08

REMARK NEWDPF move

REMARK NEWDPF tran0 -38.098515 -10.040205 115.246544

REMARK NEWDPF ndihe 4

REMARK	Rank	x	y	z	vdW	Elec	q
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RMS									
ATOM 120.184	1	C11 THI	1	-39.405	-8.555	115.041	-1.72	-0.75	-0.197
ATOM 120.184	2	C12 THI	1	-38.625	-8.203	114.016	-2.63	+0.01	+0.003
ATOM 120.184	3	C13 THI	1	-37.397	-9.004	113.937	-2.43	-0.48	-0.197
ATOM 120.184	4	C14 THI	1	-37.184	-9.953	114.894	-1.69	+0.13	+0.103
ATOM 120.184	5	S15 THI	1	-38.621	-9.822	115.940	-1.45	-0.36	-0.097
ATOM 120.184	6	N17 THI	1	-38.943	-7.124	113.065	-2.02	-1.22	-0.397
ATOM 120.184	7	H18 THI	1	-39.796	-6.611	113.196	-5.28	-1.70	+0.303
ATOM 120.184	8	H19 THI	1	-38.332	-6.890	112.309	-0.50	+1.67	+0.303
ATOM 120.184	9	C23 THI	1	-36.493	-8.729	112.845	-2.81	+0.76	+0.433
ATOM 120.184	10	N24 THI	1	-35.795	-8.475	111.953	-2.14	-0.03	-0.497
ATOM 120.184	11	C21 THI	1	-40.730	-7.936	115.364	-1.39	+1.35	+0.553
ATOM 120.184	12	O22 THI	1	-40.697	-6.912	116.042	-4.25	-3.58	-0.547
ATOM 120.184	13	C25 THI	1	-41.972	-8.577	114.902	-1.23	+0.00	+0.013
ATOM 120.184	14	C30 THI	1	-42.449	-9.679	115.607	-1.04	+0.09	+0.026
ATOM 120.184	15	C29 THI	1	-43.622	-10.313	115.217	-1.09	+0.07	+0.026
ATOM 120.184	16	C28 THI	1	-44.332	-9.846	114.118	-1.25	-0.02	+0.026
ATOM 120.184	17	C27 THI	1	-43.868	-8.743	113.413	-1.47	-0.07	+0.026
ATOM 120.184	18	C26 THI	1	-42.694	-8.108	113.804	-1.25	-0.09	+0.026
ATOM 120.184	19	O16 THI	1	-35.988	-10.511	114.562	-1.08	+0.28	-0.227
ATOM 120.184	20	C4 THI	1	-35.153	-11.155	115.460	-1.30	-0.02	+0.193
ATOM 120.184	21	C3 THI	1	-34.622	-12.379	115.077	-1.64	-0.06	+0.026
ATOM 120.184	22	C2 THI	1	-33.777	-13.078	115.931	-1.35	+0.00	+0.026

[illegible]

REMARK Run = 12

REMARK Cluster Rank = 4

REMARK Num. in Cluster = 4

REMARK Reference RMSD = 111.257 A

REMARK Total Interaction Energy of Complex = -46.28

REMARK Internal Energy of Small Molecule = -2.68

REMARK Intermolecular Interaction Energy = -43.60

REMARK NEWDPF move Thio.pdbq

REMARK NEWDPF about 0.538000 -3.254000 0.324000

REMARK NEWDPF tran0 -43.495037 -1.435284 102.455284

REMARK	NEWDPF	quat0	-0.800191	0.336779	-0.496260	111.034028
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REMARK NEWDPF ndihe 4

REMARK NEWDPF dihe0 85.093058 -69.220361 -10.990977 -68.119444

REMARK	Rank	x	y	z	vdW	Elec	q
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RMS									
ATOM 111.257	1	C11 THI	4	-42.850	-1.156	104.316	-1.37	+0.09	-0.197
ATOM 111.257	2	C12 THI	4	-43.692	-0.120	104.299	-1.27	+0.00	+0.003
ATOM 111.257	3	C13 THI	4	-44.270	0.118	102.970	-1.34	+0.15	-0.197
ATOM 111.257	4	C14 THI	4	-43.878	-0.688	101.943	-1.45	-0.12	+0.103
ATOM 111.257	5	S15 THI	4	-42.721	-1.807	102.707	-1.81	+0.11	-0.097
ATOM 111.257	6	N17 THI	4	-44.008	0.711	105.474	-0.90	+0.21	-0.397
ATOM 111.257	7	H18 THI	4	-43.558	0.493	106.344	-0.10	-0.30	+0.303
ATOM 111.257	8	H19 THI	4	-44.645	1.480	105.420	-0.09	-0.24	+0.303
ATOM 111.257	9	C23 THI	4	-45.221	1.198	102.843	-1.44	-0.40	+0.433
ATOM 111.257	10	N24 THI	4	-45.980	2.075	102.786	-1.34	+0.55	-0.497
ATOM 111.257	11	C21 THI	4	-42.126	-1.654	105.528	-1.40	-0.39	+0.553
ATOM 111.257	12	O22 THI	4	-40.993	-1.212	105.700	-4.35	-1.77	-0.547
ATOM 111.257	13	C25 THI	4	-42.766	-2.643	106.411	-1.49	-0.04	+0.013
ATOM 111.257	14	C30 THI	4	-43.001	-2.291	107.737	-1.34	-0.14	+0.026
ATOM 111.257	15	C29 THI	4	-43.612	-3.185	108.608	-1.83	-0.21	+0.026
ATOM 111.257	16	C28 THI	4	-43.997	-4.440	108.157	-1.38	-0.22	+0.026

[illegible]

TER

REMARK Run = 15

REMARK Cluster Rank = 5

REMARK Num. in Cluster = 1

REMARK Reference RMSD = 116.113 A

REMARK Total Interaction Energy of Complex = -45.91

REMARK Internal Energy of Small Molecule = -2.69

REMARK Intermolecular Interaction Energy = -43.22

REMARK NEWDPF move Thio.pdbq

REMARK NEWDPF about 0.538000 -3.254000 0.324000

REMARK NEWDPF tran0 -46.227242 1.041520 106.807480

REMARK NEWDPF quat0 0.715393 -0.692773 0.090988 -147.147697

REMARK NEWDPF ndihe 4

REMARK NEWDPF dihe0 125.965900 -60.657687 45.845637 -46.385867

REMARK	Rank	x	y	z	vdW	Elec	q
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RMS

ATOM	1	C11	THI	5	-44.293	0.644	107.049	-0.94	+0.37	-0.197
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116.113

ATOM	2	C12 THI	5	-44.275	1.826	107.668	-1.05	-0.01	+0.003
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116.113

ATOM	3	C13 THI	5	-45.549	2.547	107.551	-0.96	+0.44	-0.197
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116.113

ATOM	4	C14	THI	5	-46.552	1.970	106.829	-1.03	-0.01	+0.103
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116.113

ATOM	5	S15 THI	5	-45.840	0.432	106.279	-1.48	-0.18	-0.097
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116.113

ATOM	6	N17	THI	5	-43.109	2.368	108.386	+0.44	+3.28	-0.397
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116.113

ATOM	7	H18	THI	5	-42.267	1.820	108.408	-4.42	-3.61	+0.303
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116.113

ATOM	8	H19 THI	5	-43.135	3.260	108.838	-0.90	-3.17	+0.303
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116.113

ATOM	9	C23 THI	5	-45.652	3.827	108.211	-1.41	-1.37	+0.433
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116.113

ATOM	10	N24	THI	5	-45.691	4.851	108.758	-1.18	+2.07	-0.497
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116.113

ATOM	11	C21 THI	5	-43.153	-0.326	107.014	-1.15	-1.07	+0.553
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116.113

ATOM	12	O22	THI	5	-42.197	-0.011	106.309	-4.22	-1.51	-0.547
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116.113

ATOM	13	C25	THI	5	-43.236	-1.585	107.772	-1.10	-0.06	+0.013
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116.113

ATOM	14	C30	THI	5	-43.018	-1.545	109.147	-1.19	-0.20	+0.026
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116.113

ATOM 110.798	13	C25	THI	6	-42.939	0.089	100.161	-1.43	-0.02	+0.013
ATOM 110.798	14	C30	THI	6	-42.523	-0.591	99.019	-1.60	-0.04	+0.026
ATOM 110.798	15	C29	THI	6	-41.903	0.090	97.978	-2.22	-0.03	+0.026
ATOM 110.798	16	C28	THI	6	-41.697	1.460	98.070	-2.36	-0.04	+0.026
ATOM 110.798	17	C27	THI	6	-42.115	2.148	99.202	-2.47	-0.05	+0.026
ATOM 110.798	18	C26	THI	6	-42.736	1.467	100.242	-1.63	-0.05	+0.026
ATOM 110.798	19	O16	THI	6	-41.598	-0.913	106.297	-5.82	-0.59	-0.227
ATOM 110.798	20	C4	THI	6	-42.191	-1.522	107.391	-1.39	-0.77	+0.193
ATOM 110.798	21	C3	THI	6	-42.789	-0.700	108.337	-1.13	-0.14	+0.026
ATOM 110.798	22	C2	THI	6	-43.401	-1.247	109.458	-0.98	-0.19	+0.026
ATOM 110.798	23	C1	THI	6	-43.417	-2.624	109.639	-1.59	-0.20	+0.021
ATOM 110.798	24	C6	THI	6	-42.821	-3.451	108.695	-1.97	-0.23	+0.026
ATOM 110.798	25	C5	THI	6	-42.209	-2.902	107.573	-1.83	-0.17	+0.026

TER

REMARK Run = 17

REMARK Cluster Rank = 7

REMARK Num. in Cluster = 2

REMARK Reference RMSD = 111.805 A

REMARK Total Interaction Energy of Complex = -44.34

REMARK Internal Energy of Small Molecule = -2.55

REMARK Intermolecular Interaction Energy = -41.80

REMARK NEWDPF move Thio.pdbg

REMARK NEWDPF about 0.538000 -3.254000 0.324000

REMARK NEWDPF tran0 -43.844833 0.985929 103.142502

REMARK NEWDPF quat0 -0.191173 -0.760458 0.620610 135.980051

REMARK NEWDPF ndihe 4

REMARK NEWDPF dihe0 -36.715836 -77.312202 8.333989 -44.665868

REMARK	Rank	x	y	z	vdW	Elec	α
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RMS

[illegible]

ATOM										
111.805	11	C21	THI	7	-45.086	0.618	106.255	-1.06	-0.03	+0.553
111.805	12	O22	THI	7	-45.797	-0.311	106.629	-4.90	-2.27	-0.547
111.805	13	C25	THI	7	-44.971	1.904	106.964	-0.99	-0.03	+0.013
111.805	14	C30	THI	7	-46.125	2.660	107.151	-1.01	-0.03	+0.026
111.805	15	C29	THI	7	-46.072	3.876	107.823	-1.08	-0.06	+0.026
111.805	16	C28	THI	7	-44.861	4.343	108.317	-1.87	-0.12	+0.026
111.805	17	C27	THI	7	-43.706	3.591	108.142	-1.68	-0.16	+0.026
111.805	18	C26	THI	7	-43.760	2.375	107.471	-1.47	-0.11	+0.026
111.805	19	O16	THI	7	-42.627	0.184	101.405	-1.05	+0.30	-0.227
111.805	20	C4	THI	7	-42.796	0.912	100.239	-1.60	-0.33	+0.193
111.805	21	C3	THI	7	-41.880	1.922	99.975	-1.89	-0.05	+0.026
111.805	22	C2	THI	7	-41.992	2.690	98.822	-2.77	-0.06	+0.026
111.805	23	C1	THI	7	-43.025	2.451	97.926	-2.52	-0.04	+0.021
111.805	24	C6	THI	7	-43.945	1.441	98.185	-1.74	-0.05	+0.026
111.805	25	C5	THI	7	-43.831	0.673	99.339	-1.46	-0.05	+0.026

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TER
REMARK Run = 24
REMARK Cluster Rank = 8
REMARK Num. in Cluster = 8
REMARK Reference RMSD = 111.923 A
REMARK Total Interaction Energy of Complex = -44.31
REMARK Internal Energy of Small Molecule = -3.24
REMARK Intermolecular Interaction Energy = -41.07
REMARK NEWDPF move Thio.pdbq
REMARK NEWDPF about 0.538000 -3.254000 0.324000
REMARK NEWDPF tran0 -43.630108 1.046862 103.334160
REMARK NEWDPF quat0 -0.183887 -0.772926 0.607265 137.842425
REMARK NEWDPF ndihe 4
REMARK NEWDPF dihe0 98.900750 -75.706793 -3.187891 -54.879129

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[illegible]

[illegible]