

PEDF_P1_final_docking_model.txt

REMARK The coordinates for chain A are taken from PDB: 1IMV, renumbered to match PEDF.

REMARK The coordinates for chain B are numbered from PEDF-R.

REMARK David Hoover, National Institutes of Health, 2012 Apr 02

ATOM	1	N	THR	A	36	27.461	13.876	1.952	1.00	0.00
ATOM	2	CA	THR	A	36	28.269	12.726	1.443	1.00	0.00
ATOM	3	C	THR	A	36	29.776	13.022	1.512	1.00	0.00
ATOM	4	O	THR	A	36	30.526	12.290	2.161	1.00	0.00
ATOM	5	CB	THR	A	36	27.904	12.369	-0.010	1.00	0.00
ATOM	6	OG1	THR	A	36	26.525	11.985	-0.078	1.00	0.00
ATOM	7	CG2	THR	A	36	28.771	11.225	-0.512	1.00	0.00
ATOM	8	1H	THR	A	36	26.802	14.328	1.352	1.00	0.00
ATOM	9	2H	THR	A	36	26.852	13.751	2.735	1.00	0.00
ATOM	10	3H	THR	A	36	27.919	14.702	2.280	1.00	0.00
ATOM	11	HA	THR	A	36	28.098	11.850	2.069	1.00	0.00
ATOM	12	HB	THR	A	36	28.059	13.245	-0.640	1.00	0.00
ATOM	13	HG1	THR	A	36	26.299	11.763	-0.985	1.00	0.00
ATOM	14	1HG2	THR	A	36	28.498	10.987	-1.540	1.00	0.00
ATOM	15	2HG2	THR	A	36	29.819	11.518	-0.472	1.00	0.00
ATOM	16	3HG2	THR	A	36	28.615	10.349	0.116	1.00	0.00
ATOM	17	N	GLY	A	37	30.218	14.085	0.840	1.00	0.00
ATOM	18	CA	GLY	A	37	31.628	14.445	0.871	1.00	0.00
ATOM	19	C	GLY	A	37	32.381	14.375	-0.445	1.00	0.00
ATOM	20	O	GLY	A	37	33.543	14.775	-0.512	1.00	0.00
ATOM	21	H	GLY	A	37	29.577	14.651	0.302	1.00	0.00
ATOM	22	1HA	GLY	A	37	31.726	15.473	1.222	1.00	0.00
ATOM	23	2HA	GLY	A	37	32.151	13.778	1.555	1.00	0.00
ATOM	24	N	ALA	A	38	31.728	13.876	-1.491	1.00	0.00
ATOM	25	CA	ALA	A	38	32.355	13.749	-2.807	1.00	0.00
ATOM	26	C	ALA	A	38	32.166	14.986	-3.679	1.00	0.00
ATOM	27	O	ALA	A	38	31.283	15.802	-3.433	1.00	0.00
ATOM	28	CB	ALA	A	38	31.799	12.530	-3.547	1.00	0.00
ATOM	29	H	ALA	A	38	30.771	13.576	-1.371	1.00	0.00
ATOM	30	HA	ALA	A	38	33.430	13.632	-2.672	1.00	0.00
ATOM	31	1HB	ALA	A	38	32.276	12.450	-4.524	1.00	0.00
ATOM	32	2HB	ALA	A	38	32.003	11.629	-2.969	1.00	0.00
ATOM	33	3HB	ALA	A	38	30.724	12.643	-3.677	1.00	0.00
ATOM	34	N	LEU	A	39	33.005	15.118	-4.702	1.00	0.00
ATOM	35	CA	LEU	A	39	32.929	16.248	-5.623	1.00	0.00
ATOM	36	C	LEU	A	39	31.893	16.032	-6.727	1.00	0.00
ATOM	37	O	LEU	A	39	32.000	15.112	-7.543	1.00	0.00
ATOM	38	CB	LEU	A	39	34.309	16.510	-6.239	1.00	0.00
ATOM	39	CG	LEU	A	39	34.372	17.682	-7.226	1.00	0.00
ATOM	40	CD1	LEU	A	39	34.074	18.990	-6.504	1.00	0.00
ATOM	41	CD2	LEU	A	39	35.746	17.727	-7.877	1.00	0.00
ATOM	42	H	LEU	A	39	33.715	14.414	-4.844	1.00	0.00
ATOM	43	HA	LEU	A	39	32.604	17.137	-5.084	1.00	0.00
ATOM	44	1HB	LEU	A	39	34.863	16.754	-5.334	1.00	0.00
ATOM	45	2HB	LEU	A	39	34.728	15.610	-6.689	1.00	0.00
ATOM	46	HG	LEU	A	39	33.638	17.486	-8.009	1.00	0.00
ATOM	47	1HD1	LEU	A	39	34.120	19.816	-7.214	1.00	0.00
ATOM	48	2HD1	LEU	A	39	33.076	18.944	-6.066	1.00	0.00
ATOM	49	3HD1	LEU	A	39	34.810	19.146	-5.717	1.00	0.00
ATOM	50	1HD2	LEU	A	39	35.789	18.560	-8.579	1.00	0.00
ATOM	51	2HD2	LEU	A	39	36.509	17.859	-7.109	1.00	0.00
ATOM	52	3HD2	LEU	A	39	35.927	16.794	-8.411	1.00	0.00
ATOM	53	N	VAL	A	40	30.888	16.900	-6.737	1.00	0.00
ATOM	54	CA	VAL	A	40	29.806	16.842	-7.713	1.00	0.00
ATOM	55	C	VAL	A	40	29.404	18.256	-8.141	1.00	0.00
ATOM	56	O	VAL	A	40	29.894	19.247	-7.590	1.00	0.00
ATOM	57	CB	VAL	A	40	28.574	16.105	-7.155	1.00	0.00
ATOM	58	CG1	VAL	A	40	28.921	14.661	-6.826	1.00	0.00
ATOM	59	CG2	VAL	A	40	28.041	16.818	-5.921	1.00	0.00

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ATOM	60	H	VAL	A	40	30.880	17.627	-6.036	1.00	0.00
ATOM	61	HA	VAL	A	40	30.124	16.341	-8.628	1.00	0.00
ATOM	62	HB	VAL	A	40	27.780	16.127	-7.901	1.00	0.00
ATOM	63	1HG1	VAL	A	40	28.038	14.155	-6.433	1.00	0.00
ATOM	64	2HG1	VAL	A	40	29.257	14.153	-7.729	1.00	0.00
ATOM	65	3HG1	VAL	A	40	29.714	14.638	-6.079	1.00	0.00
ATOM	66	1HG2	VAL	A	40	27.170	16.285	-5.540	1.00	0.00
ATOM	67	2HG2	VAL	A	40	28.815	16.844	-5.154	1.00	0.00
ATOM	68	3HG2	VAL	A	40	27.755	17.836	-6.184	1.00	0.00
ATOM	69	N	GLU	A	41	28.512	18.346	-9.123	1.00	0.00
ATOM	70	CA	GLU	A	41	28.045	19.640	-9.603	1.00	0.00
ATOM	71	C	GLU	A	41	26.909	20.161	-8.738	1.00	0.00
ATOM	72	O	GLU	A	41	26.059	19.396	-8.275	1.00	0.00
ATOM	73	CB	GLU	A	41	27.594	19.543	-11.062	1.00	0.00
ATOM	74	CG	GLU	A	41	28.719	19.266	-12.050	1.00	0.00
ATOM	75	CD	GLU	A	41	29.729	20.379	-12.053	1.00	0.00
ATOM	76	OE1	GLU	A	41	29.342	21.508	-12.238	1.00	0.00
ATOM	77	OE2	GLU	A	41	30.872	20.118	-11.759	1.00	0.00
ATOM	78	H	GLU	A	41	28.149	17.504	-9.547	1.00	0.00
ATOM	79	HA	GLU	A	41	28.851	20.372	-9.537	1.00	0.00
ATOM	80	1HB	GLU	A	41	26.859	18.739	-11.115	1.00	0.00
ATOM	81	2HB	GLU	A	41	27.116	20.490	-11.312	1.00	0.00
ATOM	82	1HG	GLU	A	41	29.225	18.317	-11.877	1.00	0.00
ATOM	83	2HG	GLU	A	41	28.211	19.235	-13.014	1.00	0.00
ATOM	84	N	GLU	A	42	26.905	21.474	-8.526	1.00	0.00
ATOM	85	CA	GLU	A	42	25.887	22.134	-7.717	1.00	0.00
ATOM	86	C	GLU	A	42	24.481	22.064	-8.301	1.00	0.00
ATOM	87	O	GLU	A	42	24.295	22.082	-9.517	1.00	0.00
ATOM	88	CB	GLU	A	42	26.273	23.599	-7.501	1.00	0.00
ATOM	89	CG	GLU	A	42	27.484	23.803	-6.601	1.00	0.00
ATOM	90	CD	GLU	A	42	27.221	23.304	-5.208	1.00	0.00
ATOM	91	OE1	GLU	A	42	26.281	23.760	-4.602	1.00	0.00
ATOM	92	OE2	GLU	A	42	27.888	22.387	-4.791	1.00	0.00
ATOM	93	H	GLU	A	42	27.638	22.029	-8.944	1.00	0.00
ATOM	94	HA	GLU	A	42	25.807	21.640	-6.748	1.00	0.00
ATOM	95	1HB	GLU	A	42	26.476	24.023	-8.484	1.00	0.00
ATOM	96	2HB	GLU	A	42	25.408	24.096	-7.062	1.00	0.00
ATOM	97	1HG	GLU	A	42	28.393	23.341	-6.986	1.00	0.00
ATOM	98	2HG	GLU	A	42	27.609	24.885	-6.582	1.00	0.00
ATOM	99	N	GLU	A	43	23.494	21.995	-7.414	1.00	0.00
ATOM	100	CA	GLU	A	43	22.100	21.928	-7.822	1.00	0.00
ATOM	101	C	GLU	A	43	21.318	23.165	-7.406	1.00	0.00
ATOM	102	O	GLU	A	43	20.744	23.828	-8.268	1.00	0.00
ATOM	103	CB	GLU	A	43	21.440	20.676	-7.241	1.00	0.00
ATOM	104	CG	GLU	A	43	21.998	19.365	-7.777	1.00	0.00
ATOM	105	CD	GLU	A	43	21.275	18.184	-7.190	1.00	0.00
ATOM	106	OE1	GLU	A	43	20.382	18.388	-6.404	1.00	0.00
ATOM	107	OE2	GLU	A	43	21.540	17.082	-7.612	1.00	0.00
ATOM	108	H	GLU	A	43	23.719	21.989	-6.429	1.00	0.00
ATOM	109	HA	GLU	A	43	22.035	21.887	-8.910	1.00	0.00
ATOM	110	1HB	GLU	A	43	21.580	20.714	-6.160	1.00	0.00
ATOM	111	2HB	GLU	A	43	20.377	20.739	-7.472	1.00	0.00
ATOM	112	1HG	GLU	A	43	21.978	19.298	-8.864	1.00	0.00
ATOM	113	2HG	GLU	A	43	23.031	19.366	-7.432	1.00	0.00
ATOM	114	N	ASP	A	44	21.282	23.486	-6.107	1.00	0.00
ATOM	115	CA	ASP	A	44	20.545	24.684	-5.689	1.00	0.00
ATOM	116	C	ASP	A	44	21.231	25.773	-6.507	1.00	0.00
ATOM	117	O	ASP	A	44	22.445	25.973	-6.415	1.00	0.00
ATOM	118	CB	ASP	A	44	20.627	24.949	-4.184	1.00	0.00
ATOM	119	CG	ASP	A	44	19.818	23.981	-3.330	1.00	0.00
ATOM	120	OD1	ASP	A	44	19.084	23.199	-3.887	1.00	0.00
ATOM	121	OD2	ASP	A	44	20.056	23.922	-2.147	1.00	0.00
ATOM	122	H	ASP	A	44	21.748	22.926	-5.407	1.00	0.00

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ATOM	123	HA	ASP	A	44	19.490	24.575	-5.941	1.00	0.00
ATOM	124	1HB	ASP	A	44	21.648	24.999	-3.806	1.00	0.00
ATOM	125	2HB	ASP	A	44	20.172	25.939	-4.138	1.00	0.00
ATOM	126	N	PRO	A	45	20.464	26.454	-7.364	1.00	0.00
ATOM	127	CA	PRO	A	45	20.974	27.524	-8.225	1.00	0.00
ATOM	128	C	PRO	A	45	21.721	28.611	-7.461	1.00	0.00
ATOM	129	O	PRO	A	45	22.530	29.342	-8.034	1.00	0.00
ATOM	130	CB	PRO	A	45	19.714	28.075	-8.901	1.00	0.00
ATOM	131	CG	PRO	A	45	18.759	26.931	-8.894	1.00	0.00
ATOM	132	CD	PRO	A	45	18.994	26.222	-7.587	1.00	0.00
ATOM	133	HA	PRO	A	45	21.714	27.166	-8.956	1.00	0.00
ATOM	134	1HB	PRO	A	45	19.307	28.937	-8.353	1.00	0.00
ATOM	135	2HB	PRO	A	45	19.923	28.414	-9.927	1.00	0.00
ATOM	136	1HG	PRO	A	45	17.719	27.281	-8.973	1.00	0.00
ATOM	137	2HG	PRO	A	45	18.937	26.258	-9.746	1.00	0.00
ATOM	138	1HD	PRO	A	45	18.380	26.637	-6.773	1.00	0.00
ATOM	139	2HD	PRO	A	45	18.763	25.149	-7.648	1.00	0.00
ATOM	140	N	PHE	A	46	21.445	28.711	-6.166	1.00	0.00
ATOM	141	CA	PHE	A	46	22.072	29.723	-5.329	1.00	0.00
ATOM	142	C	PHE	A	46	23.569	29.460	-5.145	1.00	0.00
ATOM	143	O	PHE	A	46	24.395	30.380	-5.213	1.00	0.00
ATOM	144	CB	PHE	A	46	21.377	29.784	-3.968	1.00	0.00
ATOM	145	CG	PHE	A	46	21.960	30.807	-3.035	1.00	0.00
ATOM	146	CD1	PHE	A	46	21.660	32.153	-3.184	1.00	0.00
ATOM	147	CD2	PHE	A	46	22.810	30.427	-2.008	1.00	0.00
ATOM	148	CE1	PHE	A	46	22.197	33.096	-2.326	1.00	0.00
ATOM	149	CE2	PHE	A	46	23.347	31.366	-1.149	1.00	0.00
ATOM	150	CZ	PHE	A	46	23.039	32.702	-1.309	1.00	0.00
ATOM	151	H	PHE	A	46	20.784	28.070	-5.751	1.00	0.00
ATOM	152	HA	PHE	A	46	21.993	30.700	-5.808	1.00	0.00
ATOM	153	1HB	PHE	A	46	20.326	30.041	-4.094	1.00	0.00
ATOM	154	2HB	PHE	A	46	21.456	28.822	-3.463	1.00	0.00
ATOM	155	HD1	PHE	A	46	20.993	32.465	-3.988	1.00	0.00
ATOM	156	HD2	PHE	A	46	23.053	29.371	-1.882	1.00	0.00
ATOM	157	HE1	PHE	A	46	21.953	34.150	-2.455	1.00	0.00
ATOM	158	HE2	PHE	A	46	24.013	31.053	-0.345	1.00	0.00
ATOM	159	HZ	PHE	A	46	23.463	33.444	-0.633	1.00	0.00
ATOM	160	N	PHE	A	47	23.916	28.200	-4.919	1.00	0.00
ATOM	161	CA	PHE	A	47	25.304	27.839	-4.710	1.00	0.00
ATOM	162	C	PHE	A	47	26.034	27.536	-6.002	1.00	0.00
ATOM	163	O	PHE	A	47	27.246	27.334	-5.992	1.00	0.00
ATOM	164	CB	PHE	A	47	25.395	26.634	-3.772	1.00	0.00
ATOM	165	CG	PHE	A	47	24.762	26.864	-2.428	1.00	0.00
ATOM	166	CD1	PHE	A	47	23.491	26.383	-2.153	1.00	0.00
ATOM	167	CD2	PHE	A	47	25.437	27.560	-1.437	1.00	0.00
ATOM	168	CE1	PHE	A	47	22.908	26.594	-0.918	1.00	0.00
ATOM	169	CE2	PHE	A	47	24.858	27.771	-0.201	1.00	0.00
ATOM	170	CZ	PHE	A	47	23.591	27.287	0.058	1.00	0.00
ATOM	171	H	PHE	A	47	23.210	27.478	-4.891	1.00	0.00
ATOM	172	HA	PHE	A	47	25.841	28.676	-4.262	1.00	0.00
ATOM	173	1HB	PHE	A	47	24.888	25.776	-4.212	1.00	0.00
ATOM	174	2HB	PHE	A	47	26.438	26.383	-3.585	1.00	0.00
ATOM	175	HD1	PHE	A	47	22.951	25.834	-2.925	1.00	0.00
ATOM	176	HD2	PHE	A	47	26.438	27.943	-1.643	1.00	0.00
ATOM	177	HE1	PHE	A	47	21.908	26.211	-0.715	1.00	0.00
ATOM	178	HE2	PHE	A	47	25.399	28.320	0.569	1.00	0.00
ATOM	179	HZ	PHE	A	47	23.132	27.455	1.032	1.00	0.00
ATOM	180	N	LYS	A	48	25.315	27.508	-7.119	1.00	0.00
ATOM	181	CA	LYS	A	48	25.978	27.232	-8.389	1.00	0.00
ATOM	182	C	LYS	A	48	26.828	28.448	-8.797	1.00	0.00
ATOM	183	O	LYS	A	48	27.791	28.329	-9.560	1.00	0.00
ATOM	184	CB	LYS	A	48	24.954	26.897	-9.475	1.00	0.00
ATOM	185	CG	LYS	A	48	24.252	25.559	-9.286	1.00	0.00

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ATOM	186	CD	LYS	A	48	23.208	25.325	-10.368	1.00	0.00
ATOM	187	CE	LYS	A	48	23.858	25.079	-11.722	1.00	0.00
ATOM	188	NZ	LYS	A	48	22.851	24.783	-12.777	1.00	0.00
ATOM	189	H	LYS	A	48	24.319	27.674	-7.110	1.00	0.00
ATOM	190	HA	LYS	A	48	26.652	26.382	-8.276	1.00	0.00
ATOM	191	1HB	LYS	A	48	24.215	27.698	-9.474	1.00	0.00
ATOM	192	2HB	LYS	A	48	25.486	26.896	-10.427	1.00	0.00
ATOM	193	1HG	LYS	A	48	25.000	24.767	-9.325	1.00	0.00
ATOM	194	2HG	LYS	A	48	23.770	25.556	-8.309	1.00	0.00
ATOM	195	1HD	LYS	A	48	22.608	24.457	-10.089	1.00	0.00
ATOM	196	2HD	LYS	A	48	22.567	26.204	-10.428	1.00	0.00
ATOM	197	1HE	LYS	A	48	24.421	25.970	-11.997	1.00	0.00
ATOM	198	2HE	LYS	A	48	24.540	24.235	-11.625	1.00	0.00
ATOM	199	1HZ	LYS	A	48	23.322	24.627	-13.657	1.00	0.00
ATOM	200	2HZ	LYS	A	48	22.329	23.956	-12.522	1.00	0.00
ATOM	201	3HZ	LYS	A	48	22.219	25.565	-12.868	1.00	0.00
ATOM	202	N	VAL	A	49	26.471	29.614	-8.267	1.00	0.00
ATOM	203	CA	VAL	A	49	27.210	30.846	-8.534	1.00	0.00
ATOM	204	C	VAL	A	49	28.543	30.769	-7.796	1.00	0.00
ATOM	205	O	VAL	A	49	28.571	30.583	-6.581	1.00	0.00
ATOM	206	CB	VAL	A	49	26.438	32.102	-8.089	1.00	0.00
ATOM	207	CG1	VAL	A	49	27.283	33.349	-8.300	1.00	0.00
ATOM	208	CG2	VAL	A	49	25.124	32.216	-8.848	1.00	0.00
ATOM	209	H	VAL	A	49	25.663	29.646	-7.661	1.00	0.00
ATOM	210	HA	VAL	A	49	27.441	30.948	-9.595	1.00	0.00
ATOM	211	HB	VAL	A	49	26.186	32.008	-7.033	1.00	0.00
ATOM	212	1HG1	VAL	A	49	26.721	34.228	-7.980	1.00	0.00
ATOM	213	2HG1	VAL	A	49	28.198	33.272	-7.714	1.00	0.00
ATOM	214	3HG1	VAL	A	49	27.534	33.445	-9.356	1.00	0.00
ATOM	215	1HG2	VAL	A	49	24.591	33.109	-8.521	1.00	0.00
ATOM	216	2HG2	VAL	A	49	25.327	32.285	-9.917	1.00	0.00
ATOM	217	3HG2	VAL	A	49	24.512	31.336	-8.650	1.00	0.00
ATOM	218	N	PRO	A	50	29.664	30.945	-8.503	1.00	0.00
ATOM	219	CA	PRO	A	50	30.968	30.873	-7.832	1.00	0.00
ATOM	220	C	PRO	A	50	31.149	31.689	-6.531	1.00	0.00
ATOM	221	O	PRO	A	50	31.547	31.124	-5.507	1.00	0.00
ATOM	222	CB	PRO	A	50	31.921	31.366	-8.925	1.00	0.00
ATOM	223	CG	PRO	A	50	31.275	30.944	-10.200	1.00	0.00
ATOM	224	CD	PRO	A	50	29.804	31.201	-10.006	1.00	0.00
ATOM	225	HA	PRO	A	50	31.209	29.860	-7.478	1.00	0.00
ATOM	226	1HB	PRO	A	50	32.050	32.458	-8.886	1.00	0.00
ATOM	227	2HB	PRO	A	50	32.921	30.920	-8.819	1.00	0.00
ATOM	228	1HG	PRO	A	50	31.667	31.516	-11.054	1.00	0.00
ATOM	229	2HG	PRO	A	50	31.466	29.881	-10.410	1.00	0.00
ATOM	230	1HD	PRO	A	50	29.521	32.226	-10.287	1.00	0.00
ATOM	231	2HD	PRO	A	50	29.180	30.520	-10.603	1.00	0.00
ATOM	232	N	VAL	A	51	30.857	32.992	-6.548	1.00	0.00
ATOM	233	CA	VAL	A	51	31.020	33.811	-5.341	1.00	0.00
ATOM	234	C	VAL	A	51	30.172	33.319	-4.163	1.00	0.00
ATOM	235	O	VAL	A	51	30.604	33.389	-3.014	1.00	0.00
ATOM	236	CB	VAL	A	51	30.665	35.283	-5.621	1.00	0.00
ATOM	237	CG1	VAL	A	51	30.644	36.081	-4.325	1.00	0.00
ATOM	238	CG2	VAL	A	51	31.653	35.892	-6.604	1.00	0.00
ATOM	239	H	VAL	A	51	30.520	33.426	-7.395	1.00	0.00
ATOM	240	HA	VAL	A	51	32.041	33.760	-4.962	1.00	0.00
ATOM	241	HB	VAL	A	51	29.682	35.328	-6.090	1.00	0.00
ATOM	242	1HG1	VAL	A	51	30.392	37.120	-4.542	1.00	0.00
ATOM	243	2HG1	VAL	A	51	29.900	35.660	-3.650	1.00	0.00
ATOM	244	3HG1	VAL	A	51	31.627	36.039	-3.856	1.00	0.00
ATOM	245	1HG2	VAL	A	51	31.387	36.932	-6.791	1.00	0.00
ATOM	246	2HG2	VAL	A	51	32.658	35.844	-6.186	1.00	0.00
ATOM	247	3HG2	VAL	A	51	31.622	35.337	-7.542	1.00	0.00
ATOM	248	N	ASN	A	52	28.964	32.834	-4.442	1.00	0.00

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ATOM	249	CA	ASN	A	52	28.083	32.334	-3.390	1.00	0.00
ATOM	250	C	ASN	A	52	28.616	31.022	-2.841	1.00	0.00
ATOM	251	O	ASN	A	52	28.512	30.747	-1.652	1.00	0.00
ATOM	252	CB	ASN	A	52	26.657	32.162	-3.881	1.00	0.00
ATOM	253	CG	ASN	A	52	25.987	33.453	-4.259	1.00	0.00
ATOM	254	OD1	ASN	A	52	26.513	34.545	-4.012	1.00	0.00
ATOM	255	ND2	ASN	A	52	24.793	33.338	-4.783	1.00	0.00
ATOM	256	H	ASN	A	52	28.648	32.810	-5.401	1.00	0.00
ATOM	257	HA	ASN	A	52	28.057	33.043	-2.561	1.00	0.00
ATOM	258	1HB	ASN	A	52	26.411	31.400	-4.622	1.00	0.00
ATOM	259	2HB	ASN	A	52	26.291	31.849	-2.904	1.00	0.00
ATOM	260	1HD2	ASN	A	52	24.288	34.156	-5.059	1.00	0.00
ATOM	261	2HD2	ASN	A	52	24.387	32.433	-4.907	1.00	0.00
ATOM	262	N	LYS	A	53	29.176	30.216	-3.737	1.00	0.00
ATOM	263	CA	LYS	A	53	29.755	28.921	-3.399	1.00	0.00
ATOM	264	C	LYS	A	53	30.924	29.123	-2.444	1.00	0.00
ATOM	265	O	LYS	A	53	31.089	28.387	-1.469	1.00	0.00
ATOM	266	CB	LYS	A	53	30.211	28.179	-4.656	1.00	0.00
ATOM	267	CG	LYS	A	53	30.584	26.721	-4.425	1.00	0.00
ATOM	268	CD	LYS	A	53	30.675	25.958	-5.739	1.00	0.00
ATOM	269	CE	LYS	A	53	31.081	24.509	-5.511	1.00	0.00
ATOM	270	NZ	LYS	A	53	31.194	23.756	-6.790	1.00	0.00
ATOM	271	H	LYS	A	53	29.195	30.528	-4.697	1.00	0.00
ATOM	272	HA	LYS	A	53	29.013	28.307	-2.888	1.00	0.00
ATOM	273	1HB	LYS	A	53	29.392	28.234	-5.374	1.00	0.00
ATOM	274	2HB	LYS	A	53	31.074	28.716	-5.049	1.00	0.00
ATOM	275	1HG	LYS	A	53	31.549	26.686	-3.917	1.00	0.00
ATOM	276	2HG	LYS	A	53	29.824	26.265	-3.792	1.00	0.00
ATOM	277	1HD	LYS	A	53	29.700	25.990	-6.227	1.00	0.00
ATOM	278	2HD	LYS	A	53	31.414	26.446	-6.374	1.00	0.00
ATOM	279	1HE	LYS	A	53	32.041	24.500	-4.998	1.00	0.00
ATOM	280	2HE	LYS	A	53	30.328	24.039	-4.879	1.00	0.00
ATOM	281	1HZ	LYS	A	53	31.464	22.802	-6.595	1.00	0.00
ATOM	282	2HZ	LYS	A	53	30.303	23.763	-7.266	1.00	0.00
ATOM	283	3HZ	LYS	A	53	31.892	24.191	-7.376	1.00	0.00
ATOM	284	N	LEU	A	54	31.746	30.124	-2.745	1.00	0.00
ATOM	285	CA	LEU	A	54	32.896	30.432	-1.914	1.00	0.00
ATOM	286	C	LEU	A	54	32.419	30.967	-0.565	1.00	0.00
ATOM	287	O	LEU	A	54	32.999	30.654	0.473	1.00	0.00
ATOM	288	CB	LEU	A	54	33.811	31.445	-2.614	1.00	0.00
ATOM	289	CG	LEU	A	54	35.088	31.811	-1.846	1.00	0.00
ATOM	290	CD1	LEU	A	54	35.939	30.568	-1.627	1.00	0.00
ATOM	291	CD2	LEU	A	54	35.863	32.866	-2.621	1.00	0.00
ATOM	292	H	LEU	A	54	31.569	30.683	-3.567	1.00	0.00
ATOM	293	HA	LEU	A	54	33.463	29.522	-1.724	1.00	0.00
ATOM	294	1HB	LEU	A	54	34.062	30.871	-3.504	1.00	0.00
ATOM	295	2HB	LEU	A	54	33.269	32.346	-2.902	1.00	0.00
ATOM	296	HG	LEU	A	54	34.780	32.252	-0.898	1.00	0.00
ATOM	297	1HD1	LEU	A	54	36.844	30.837	-1.081	1.00	0.00
ATOM	298	2HD1	LEU	A	54	35.373	29.836	-1.051	1.00	0.00
ATOM	299	3HD1	LEU	A	54	36.212	30.139	-2.591	1.00	0.00
ATOM	300	1HD2	LEU	A	54	36.770	33.125	-2.074	1.00	0.00
ATOM	301	2HD2	LEU	A	54	36.130	32.474	-3.603	1.00	0.00
ATOM	302	3HD2	LEU	A	54	35.245	33.756	-2.742	1.00	0.00
ATOM	303	N	ALA	A	55	31.355	31.762	-0.582	1.00	0.00
ATOM	304	CA	ALA	A	55	30.818	32.314	0.656	1.00	0.00
ATOM	305	C	ALA	A	55	30.268	31.204	1.562	1.00	0.00
ATOM	306	O	ALA	A	55	30.350	31.297	2.787	1.00	0.00
ATOM	307	CB	ALA	A	55	29.692	33.305	0.358	1.00	0.00
ATOM	308	H	ALA	A	55	30.907	31.991	-1.458	1.00	0.00
ATOM	309	HA	ALA	A	55	31.625	32.806	1.199	1.00	0.00
ATOM	310	1HB	ALA	A	55	29.304	33.706	1.295	1.00	0.00
ATOM	311	2HB	ALA	A	55	30.077	34.121	-0.254	1.00	0.00

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ATOM	312	3HB	ALA	A	55	28.892	32.796	-0.177	1.00	0.00
ATOM	313	N	ALA	A	56	29.716	30.155	0.964	1.00	0.00
ATOM	314	CA	ALA	A	56	29.180	29.049	1.753	1.00	0.00
ATOM	315	C	ALA	A	56	30.294	28.306	2.485	1.00	0.00
ATOM	316	O	ALA	A	56	30.113	27.877	3.616	1.00	0.00
ATOM	317	CB	ALA	A	56	28.448	28.059	0.847	1.00	0.00
ATOM	318	H	ALA	A	56	29.662	30.112	-0.044	1.00	0.00
ATOM	319	HA	ALA	A	56	28.506	29.453	2.509	1.00	0.00
ATOM	320	1HB	ALA	A	56	28.054	27.240	1.449	1.00	0.00
ATOM	321	2HB	ALA	A	56	27.626	28.566	0.342	1.00	0.00
ATOM	322	3HB	ALA	A	56	29.141	27.663	0.106	1.00	0.00
ATOM	323	N	ALA	A	57	31.447	28.164	1.837	1.00	0.00
ATOM	324	CA	ALA	A	57	32.591	27.470	2.424	1.00	0.00
ATOM	325	C	ALA	A	57	33.117	28.263	3.600	1.00	0.00
ATOM	326	O	ALA	A	57	33.152	27.785	4.730	1.00	0.00
ATOM	327	CB	ALA	A	57	33.676	27.313	1.361	1.00	0.00
ATOM	328	H	ALA	A	57	31.530	28.551	0.908	1.00	0.00
ATOM	329	HA	ALA	A	57	32.261	26.496	2.785	1.00	0.00
ATOM	330	1HB	ALA	A	57	34.533	26.796	1.791	1.00	0.00
ATOM	331	2HB	ALA	A	57	33.285	26.733	0.524	1.00	0.00
ATOM	332	3HB	ALA	A	57	33.985	28.296	1.009	1.00	0.00
ATOM	333	N	VAL	A	58	33.531	29.487	3.315	1.00	0.00
ATOM	334	CA	VAL	A	58	34.055	30.380	4.330	1.00	0.00
ATOM	335	C	VAL	A	58	33.054	30.506	5.484	1.00	0.00
ATOM	336	O	VAL	A	58	33.433	30.511	6.657	1.00	0.00
ATOM	337	CB	VAL	A	58	34.309	31.736	3.668	1.00	0.00
ATOM	338	CG1	VAL	A	58	34.496	32.867	4.677	1.00	0.00
ATOM	339	CG2	VAL	A	58	35.473	31.624	2.684	1.00	0.00
ATOM	340	H	VAL	A	58	33.479	29.806	2.358	1.00	0.00
ATOM	341	HA	VAL	A	58	34.967	29.981	4.777	1.00	0.00
ATOM	342	HB	VAL	A	58	33.427	32.020	3.093	1.00	0.00
ATOM	343	1HG1	VAL	A	58	34.672	33.803	4.146	1.00	0.00
ATOM	344	2HG1	VAL	A	58	33.599	32.961	5.289	1.00	0.00
ATOM	345	3HG1	VAL	A	58	35.351	32.647	5.316	1.00	0.00
ATOM	346	1HG2	VAL	A	58	35.649	32.592	2.215	1.00	0.00
ATOM	347	2HG2	VAL	A	58	36.370	31.310	3.218	1.00	0.00
ATOM	348	3HG2	VAL	A	58	35.231	30.889	1.916	1.00	0.00
ATOM	349	N	SER	A	59	31.772	30.592	5.150	1.00	0.00
ATOM	350	CA	SER	A	59	30.758	30.714	6.178	1.00	0.00
ATOM	351	C	SER	A	59	30.668	29.448	7.016	1.00	0.00
ATOM	352	O	SER	A	59	30.475	29.537	8.231	1.00	0.00
ATOM	353	CB	SER	A	59	29.415	31.030	5.548	1.00	0.00
ATOM	354	OG	SER	A	59	29.405	32.290	4.935	1.00	0.00
ATOM	355	H	SER	A	59	31.490	30.573	4.180	1.00	0.00
ATOM	356	HA	SER	A	59	30.902	31.578	6.828	1.00	0.00
ATOM	357	1HB	SER	A	59	29.195	30.270	4.799	1.00	0.00
ATOM	358	2HB	SER	A	59	28.651	31.006	6.324	1.00	0.00
ATOM	359	HG	SER	A	59	30.073	32.316	4.246	1.00	0.00
ATOM	360	N	ASN	A	60	30.810	28.280	6.379	1.00	0.00
ATOM	361	CA	ASN	A	60	30.765	27.006	7.101	1.00	0.00
ATOM	362	C	ASN	A	60	31.960	26.912	8.048	1.00	0.00
ATOM	363	O	ASN	A	60	31.920	26.206	9.056	1.00	0.00
ATOM	364	CB	ASN	A	60	30.738	25.819	6.156	1.00	0.00
ATOM	365	CG	ASN	A	60	29.424	25.639	5.448	1.00	0.00
ATOM	366	OD1	ASN	A	60	28.384	26.142	5.888	1.00	0.00
ATOM	367	ND2	ASN	A	60	29.450	24.858	4.398	1.00	0.00
ATOM	368	H	ASN	A	60	30.951	28.274	5.379	1.00	0.00
ATOM	369	HA	ASN	A	60	29.860	26.957	7.709	1.00	0.00
ATOM	370	1HB	ASN	A	60	31.551	25.648	5.450	1.00	0.00
ATOM	371	2HB	ASN	A	60	30.802	25.092	6.966	1.00	0.00
ATOM	372	1HD2	ASN	A	60	28.613	24.693	3.877	1.00	0.00
ATOM	373	2HD2	ASN	A	60	30.307	24.427	4.117	1.00	0.00
ATOM	374	N	PHE	A	61	33.034	27.614	7.707	1.00	0.00

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ATOM	375	CA	PHE	A	61	34.204	27.652	8.560	1.00	0.00
ATOM	376	C	PHE	A	61	33.793	28.495	9.756	1.00	0.00
ATOM	377	O	PHE	A	61	34.148	28.196	10.885	1.00	0.00
ATOM	378	CB	PHE	A	61	35.385	28.266	7.801	1.00	0.00
ATOM	379	CG	PHE	A	61	36.445	28.749	8.762	1.00	0.00
ATOM	380	CD1	PHE	A	61	37.360	27.854	9.303	1.00	0.00
ATOM	381	CD2	PHE	A	61	36.502	30.094	9.109	1.00	0.00
ATOM	382	CE1	PHE	A	61	38.317	28.304	10.204	1.00	0.00
ATOM	383	CE2	PHE	A	61	37.455	30.543	10.015	1.00	0.00
ATOM	384	CZ	PHE	A	61	38.356	29.644	10.570	1.00	0.00
ATOM	385	H	PHE	A	61	33.040	28.132	6.840	1.00	0.00
ATOM	386	HA	PHE	A	61	34.462	26.641	8.879	1.00	0.00
ATOM	387	1HB	PHE	A	61	35.835	27.524	7.143	1.00	0.00
ATOM	388	2HB	PHE	A	61	35.048	29.117	7.210	1.00	0.00
ATOM	389	HD1	PHE	A	61	37.315	26.805	9.011	1.00	0.00
ATOM	390	HD2	PHE	A	61	35.792	30.797	8.671	1.00	0.00
ATOM	391	HE1	PHE	A	61	39.039	27.605	10.625	1.00	0.00
ATOM	392	HE2	PHE	A	61	37.497	31.596	10.291	1.00	0.00
ATOM	393	HZ	PHE	A	61	39.092	29.991	11.294	1.00	0.00
ATOM	394	N	GLY	A	62	33.049	29.565	9.489	1.00	0.00
ATOM	395	CA	GLY	A	62	32.581	30.437	10.551	1.00	0.00
ATOM	396	C	GLY	A	62	31.756	29.670	11.569	1.00	0.00
ATOM	397	O	GLY	A	62	31.954	29.809	12.778	1.00	0.00
ATOM	398	H	GLY	A	62	32.803	29.778	8.533	1.00	0.00
ATOM	399	1HA	GLY	A	62	33.441	30.880	11.053	1.00	0.00
ATOM	400	2HA	GLY	A	62	31.967	31.226	10.119	1.00	0.00
ATOM	401	N	TYR	A	63	30.831	28.848	11.081	1.00	0.00
ATOM	402	CA	TYR	A	63	29.974	28.058	11.957	1.00	0.00
ATOM	403	C	TYR	A	63	30.784	27.089	12.803	1.00	0.00
ATOM	404	O	TYR	A	63	30.492	26.915	13.990	1.00	0.00
ATOM	405	CB	TYR	A	63	28.934	27.291	11.137	1.00	0.00
ATOM	406	CG	TYR	A	63	27.817	28.158	10.599	1.00	0.00
ATOM	407	CD1	TYR	A	63	27.538	28.200	9.241	1.00	0.00
ATOM	408	CD2	TYR	A	63	27.043	28.931	11.452	1.00	0.00
ATOM	409	CE1	TYR	A	63	26.520	28.990	8.744	1.00	0.00
ATOM	410	CE2	TYR	A	63	26.021	29.724	10.967	1.00	0.00
ATOM	411	CZ	TYR	A	63	25.763	29.751	9.612	1.00	0.00
ATOM	412	OH	TYR	A	63	24.746	30.539	9.124	1.00	0.00
ATOM	413	H	TYR	A	63	30.719	28.768	10.080	1.00	0.00
ATOM	414	HA	TYR	A	63	29.453	28.714	12.655	1.00	0.00
ATOM	415	1HB	TYR	A	63	29.461	26.820	10.306	1.00	0.00
ATOM	416	2HB	TYR	A	63	28.516	26.521	11.786	1.00	0.00
ATOM	417	HD1	TYR	A	63	28.140	27.596	8.562	1.00	0.00
ATOM	418	HD2	TYR	A	63	27.253	28.905	12.522	1.00	0.00
ATOM	419	HE1	TYR	A	63	26.312	29.013	7.675	1.00	0.00
ATOM	420	HE2	TYR	A	63	25.425	30.325	11.654	1.00	0.00
ATOM	421	HH	TYR	A	63	24.835	30.729	8.187	1.00	0.00
ATOM	422	N	ASP	A	64	31.800	26.462	12.210	1.00	0.00
ATOM	423	CA	ASP	A	64	32.626	25.539	12.974	1.00	0.00
ATOM	424	C	ASP	A	64	33.280	26.295	14.117	1.00	0.00
ATOM	425	O	ASP	A	64	33.279	25.829	15.256	1.00	0.00
ATOM	426	CB	ASP	A	64	33.685	24.880	12.087	1.00	0.00
ATOM	427	CG	ASP	A	64	33.168	23.722	11.244	1.00	0.00
ATOM	428	OD1	ASP	A	64	32.474	22.889	11.777	1.00	0.00
ATOM	429	OD2	ASP	A	64	33.338	23.762	10.049	1.00	0.00
ATOM	430	H	ASP	A	64	32.009	26.617	11.234	1.00	0.00
ATOM	431	HA	ASP	A	64	32.003	24.754	13.403	1.00	0.00
ATOM	432	1HB	ASP	A	64	34.216	25.585	11.448	1.00	0.00
ATOM	433	2HB	ASP	A	64	34.364	24.498	12.851	1.00	0.00
ATOM	434	N	LEU	A	65	33.831	27.467	13.807	1.00	0.00
ATOM	435	CA	LEU	A	65	34.494	28.276	14.812	1.00	0.00
ATOM	436	C	LEU	A	65	33.514	28.636	15.915	1.00	0.00
ATOM	437	O	LEU	A	65	33.827	28.505	17.096	1.00	0.00

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ATOM	438	CB	LEU	A	65	35.088	29.541	14.179	1.00	0.00
ATOM	439	CG	LEU	A	65	35.811	30.480	15.153	1.00	0.00
ATOM	440	CD1	LEU	A	65	36.996	29.764	15.786	1.00	0.00
ATOM	441	CD2	LEU	A	65	36.268	31.727	14.411	1.00	0.00
ATOM	442	H	LEU	A	65	33.788	27.802	12.855	1.00	0.00
ATOM	443	HA	LEU	A	65	35.299	27.702	15.270	1.00	0.00
ATOM	444	1HB	LEU	A	65	35.805	29.080	13.502	1.00	0.00
ATOM	445	2HB	LEU	A	65	34.344	30.090	13.601	1.00	0.00
ATOM	446	HG	LEU	A	65	35.085	30.788	15.906	1.00	0.00
ATOM	447	1HD1	LEU	A	65	37.503	30.439	16.476	1.00	0.00
ATOM	448	2HD1	LEU	A	65	36.643	28.888	16.331	1.00	0.00
ATOM	449	3HD1	LEU	A	65	37.691	29.452	15.008	1.00	0.00
ATOM	450	1HD2	LEU	A	65	36.781	32.395	15.104	1.00	0.00
ATOM	451	2HD2	LEU	A	65	36.949	31.445	13.607	1.00	0.00
ATOM	452	3HD2	LEU	A	65	35.403	32.239	13.989	1.00	0.00
ATOM	453	N	TYR	A	66	32.325	29.087	15.535	1.00	0.00
ATOM	454	CA	TYR	A	66	31.316	29.445	16.525	1.00	0.00
ATOM	455	C	TYR	A	66	31.026	28.263	17.450	1.00	0.00
ATOM	456	O	TYR	A	66	30.992	28.412	18.676	1.00	0.00
ATOM	457	CB	TYR	A	66	30.030	29.909	15.838	1.00	0.00
ATOM	458	CG	TYR	A	66	28.847	30.037	16.773	1.00	0.00
ATOM	459	CD1	TYR	A	66	28.701	31.151	17.587	1.00	0.00
ATOM	460	CD2	TYR	A	66	27.880	29.046	16.836	1.00	0.00
ATOM	461	CE1	TYR	A	66	27.623	31.273	18.443	1.00	0.00
ATOM	462	CE2	TYR	A	66	26.798	29.157	17.688	1.00	0.00
ATOM	463	CZ	TYR	A	66	26.673	30.273	18.490	1.00	0.00
ATOM	464	OH	TYR	A	66	25.597	30.390	19.339	1.00	0.00
ATOM	465	H	TYR	A	66	32.108	29.186	14.554	1.00	0.00
ATOM	466	HA	TYR	A	66	31.685	30.256	17.154	1.00	0.00
ATOM	467	1HB	TYR	A	66	30.239	30.877	15.381	1.00	0.00
ATOM	468	2HB	TYR	A	66	29.800	29.182	15.060	1.00	0.00
ATOM	469	HD1	TYR	A	66	29.455	31.936	17.545	1.00	0.00
ATOM	470	HD2	TYR	A	66	27.985	28.167	16.200	1.00	0.00
ATOM	471	HE1	TYR	A	66	27.521	32.153	19.078	1.00	0.00
ATOM	472	HE2	TYR	A	66	26.049	28.366	17.724	1.00	0.00
ATOM	473	HH	TYR	A	66	25.173	29.548	19.526	1.00	0.00
ATOM	474	N	ARG	A	67	30.807	27.091	16.863	1.00	0.00
ATOM	475	CA	ARG	A	67	30.512	25.909	17.656	1.00	0.00
ATOM	476	C	ARG	A	67	31.641	25.578	18.625	1.00	0.00
ATOM	477	O	ARG	A	67	31.387	25.182	19.764	1.00	0.00
ATOM	478	CB	ARG	A	67	30.163	24.713	16.782	1.00	0.00
ATOM	479	CG	ARG	A	67	28.732	24.692	16.270	1.00	0.00
ATOM	480	CD	ARG	A	67	28.318	23.401	15.663	1.00	0.00
ATOM	481	NE	ARG	A	67	29.040	23.045	14.452	1.00	0.00
ATOM	482	CZ	ARG	A	67	28.594	23.270	13.201	1.00	0.00
ATOM	483	NH1	ARG	A	67	27.415	23.814	12.990	1.00	0.00
ATOM	484	NH2	ARG	A	67	29.362	22.908	12.189	1.00	0.00
ATOM	485	H	ARG	A	67	30.844	27.012	15.857	1.00	0.00
ATOM	486	HA	ARG	A	67	29.630	26.088	18.271	1.00	0.00
ATOM	487	1HB	ARG	A	67	30.848	24.727	15.935	1.00	0.00
ATOM	488	2HB	ARG	A	67	30.343	23.820	17.380	1.00	0.00
ATOM	489	1HG	ARG	A	67	28.061	24.900	17.104	1.00	0.00
ATOM	490	2HG	ARG	A	67	28.623	25.469	15.513	1.00	0.00
ATOM	491	1HD	ARG	A	67	28.480	22.601	16.386	1.00	0.00
ATOM	492	2HD	ARG	A	67	27.260	23.452	15.409	1.00	0.00
ATOM	493	HE	ARG	A	67	29.941	22.598	14.347	1.00	0.00
ATOM	494	1HH1	ARG	A	67	26.832	24.069	13.774	1.00	0.00
ATOM	495	2HH1	ARG	A	67	27.099	23.974	12.045	1.00	0.00
ATOM	496	1HH2	ARG	A	67	30.258	22.475	12.369	1.00	0.00
ATOM	497	2HH2	ARG	A	67	29.052	23.064	11.241	1.00	0.00
ATOM	498	N	VAL	A	68	32.884	25.731	18.181	1.00	0.00
ATOM	499	CA	VAL	A	68	34.024	25.449	19.048	1.00	0.00
ATOM	500	C	VAL	A	68	34.091	26.481	20.177	1.00	0.00

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ATOM	501	O	VAL	A	68	34.299	26.139	21.343	1.00	0.00
ATOM	502	CB	VAL	A	68	35.318	25.397	18.240	1.00	0.00
ATOM	503	CG1	VAL	A	68	36.540	25.260	19.147	1.00	0.00
ATOM	504	CG2	VAL	A	68	35.243	24.248	17.235	1.00	0.00
ATOM	505	H	VAL	A	68	33.051	26.045	17.236	1.00	0.00
ATOM	506	HA	VAL	A	68	33.918	24.482	19.541	1.00	0.00
ATOM	507	HB	VAL	A	68	35.418	26.322	17.671	1.00	0.00
ATOM	508	1HG1	VAL	A	68	37.444	25.226	18.538	1.00	0.00
ATOM	509	2HG1	VAL	A	68	36.590	26.114	19.822	1.00	0.00
ATOM	510	3HG1	VAL	A	68	36.461	24.341	19.728	1.00	0.00
ATOM	511	1HG2	VAL	A	68	36.165	24.209	16.656	1.00	0.00
ATOM	512	2HG2	VAL	A	68	35.109	23.307	17.769	1.00	0.00
ATOM	513	3HG2	VAL	A	68	34.400	24.407	16.562	1.00	0.00
ATOM	514	N	ARG	A	69	33.889	27.744	19.824	1.00	0.00
ATOM	515	CA	ARG	A	69	33.935	28.816	20.799	1.00	0.00
ATOM	516	C	ARG	A	69	32.754	28.827	21.761	1.00	0.00
ATOM	517	O	ARG	A	69	32.925	29.141	22.936	1.00	0.00
ATOM	518	CB	ARG	A	69	34.095	30.169	20.121	1.00	0.00
ATOM	519	CG	ARG	A	69	34.352	31.332	21.066	1.00	0.00
ATOM	520	CD	ARG	A	69	35.613	31.221	21.843	1.00	0.00
ATOM	521	NE	ARG	A	69	36.021	32.449	22.508	1.00	0.00
ATOM	522	CZ	ARG	A	69	36.720	32.500	23.659	1.00	0.00
ATOM	523	NH1	ARG	A	69	37.058	31.401	24.295	1.00	0.00
ATOM	524	NH2	ARG	A	69	37.036	33.688	24.145	1.00	0.00
ATOM	525	H	ARG	A	69	33.699	27.966	18.857	1.00	0.00
ATOM	526	HA	ARG	A	69	34.811	28.697	21.437	1.00	0.00
ATOM	527	1HB	ARG	A	69	34.928	30.080	19.425	1.00	0.00
ATOM	528	2HB	ARG	A	69	33.176	30.356	19.565	1.00	0.00
ATOM	529	1HG	ARG	A	69	34.397	32.251	20.482	1.00	0.00
ATOM	530	2HG	ARG	A	69	33.525	31.392	21.774	1.00	0.00
ATOM	531	1HD	ARG	A	69	35.490	30.459	22.612	1.00	0.00
ATOM	532	2HD	ARG	A	69	36.419	30.931	21.170	1.00	0.00
ATOM	533	HE	ARG	A	69	35.861	33.411	22.239	1.00	0.00
ATOM	534	1HH1	ARG	A	69	36.793	30.501	23.919	1.00	0.00
ATOM	535	2HH1	ARG	A	69	37.582	31.460	25.156	1.00	0.00
ATOM	536	1HH2	ARG	A	69	36.752	34.523	23.652	1.00	0.00
ATOM	537	2HH2	ARG	A	69	37.558	33.755	25.005	1.00	0.00
ATOM	538	N	SER	A	70	31.557	28.504	21.274	1.00	0.00
ATOM	539	CA	SER	A	70	30.374	28.470	22.143	1.00	0.00
ATOM	540	C	SER	A	70	30.579	27.394	23.207	1.00	0.00
ATOM	541	O	SER	A	70	30.166	27.534	24.355	1.00	0.00
ATOM	542	CB	SER	A	70	29.117	28.203	21.338	1.00	0.00
ATOM	543	OG	SER	A	70	29.124	26.926	20.760	1.00	0.00
ATOM	544	H	SER	A	70	31.455	28.278	20.295	1.00	0.00
ATOM	545	HA	SER	A	70	30.135	29.437	22.588	1.00	0.00
ATOM	546	1HB	SER	A	70	28.255	28.288	21.999	1.00	0.00
ATOM	547	2HB	SER	A	70	29.043	28.949	20.548	1.00	0.00
ATOM	548	HG	SER	A	70	28.225	26.672	20.536	1.00	0.00
ATOM	549	N	SER	A	71	31.229	26.315	22.800	1.00	0.00
ATOM	550	CA	SER	A	71	31.519	25.213	23.687	1.00	0.00
ATOM	551	C	SER	A	71	32.511	25.645	24.769	1.00	0.00
ATOM	552	O	SER	A	71	32.519	25.091	25.865	1.00	0.00
ATOM	553	CB	SER	A	71	32.059	24.038	22.896	1.00	0.00
ATOM	554	OG	SER	A	71	31.107	23.517	22.010	1.00	0.00
ATOM	555	H	SER	A	71	31.530	26.264	21.837	1.00	0.00
ATOM	556	HA	SER	A	71	30.628	24.778	24.142	1.00	0.00
ATOM	557	1HB	SER	A	71	32.928	24.370	22.328	1.00	0.00
ATOM	558	2HB	SER	A	71	32.360	23.256	23.593	1.00	0.00
ATOM	559	HG	SER	A	71	31.488	22.777	21.530	1.00	0.00
ATOM	560	N	MET	A	72	33.355	26.625	24.462	1.00	0.00
ATOM	561	CA	MET	A	72	34.327	27.110	25.440	1.00	0.00
ATOM	562	C	MET	A	72	33.718	28.175	26.352	1.00	0.00
ATOM	563	O	MET	A	72	34.137	28.327	27.493	1.00	0.00

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ATOM	564	CB	MET	A	72	35.557	27.667	24.726	1.00	0.00
ATOM	565	CG	MET	A	72	36.418	26.615	24.041	1.00	0.00
ATOM	566	SD	MET	A	72	37.833	27.329	23.180	1.00	0.00
ATOM	567	CE	MET	A	72	38.539	25.869	22.421	1.00	0.00
ATOM	568	H	MET	A	72	33.330	27.044	23.544	1.00	0.00
ATOM	569	HA	MET	A	72	34.640	26.293	26.089	1.00	0.00
ATOM	570	1HB	MET	A	72	35.198	28.382	23.987	1.00	0.00
ATOM	571	2HB	MET	A	72	36.151	28.189	25.478	1.00	0.00
ATOM	572	1HG	MET	A	72	36.774	25.920	24.800	1.00	0.00
ATOM	573	2HG	MET	A	72	35.794	26.083	23.323	1.00	0.00
ATOM	574	1HE	MET	A	72	39.426	26.146	21.851	1.00	0.00
ATOM	575	2HE	MET	A	72	38.814	25.152	23.196	1.00	0.00
ATOM	576	3HE	MET	A	72	37.805	25.416	21.753	1.00	0.00
ATOM	577	N	SER	A	73	32.730	28.909	25.851	1.00	0.00
ATOM	578	CA	SER	A	73	32.077	29.945	26.644	1.00	0.00
ATOM	579	C	SER	A	73	30.625	29.526	26.895	1.00	0.00
ATOM	580	O	SER	A	73	29.693	30.047	26.279	1.00	0.00
ATOM	581	CB	SER	A	73	32.145	31.285	25.938	1.00	0.00
ATOM	582	OG	SER	A	73	33.466	31.691	25.705	1.00	0.00
ATOM	583	H	SER	A	73	32.423	28.749	24.902	1.00	0.00
ATOM	584	HA	SER	A	73	32.598	30.171	27.575	1.00	0.00
ATOM	585	1HB	SER	A	73	31.625	31.203	24.984	1.00	0.00
ATOM	586	2HB	SER	A	73	31.650	32.032	26.558	1.00	0.00
ATOM	587	HG	SER	A	73	33.465	32.541	25.258	1.00	0.00
ATOM	588	N	PRO	A	74	30.421	28.567	27.812	1.00	0.00
ATOM	589	CA	PRO	A	74	29.099	28.041	28.171	1.00	0.00
ATOM	590	C	PRO	A	74	28.181	28.989	28.923	1.00	0.00
ATOM	591	O	PRO	A	74	26.968	28.803	28.924	1.00	0.00
ATOM	592	CB	PRO	A	74	29.437	26.816	29.026	1.00	0.00
ATOM	593	CG	PRO	A	74	30.794	27.105	29.570	1.00	0.00
ATOM	594	CD	PRO	A	74	31.505	27.868	28.484	1.00	0.00
ATOM	595	HA	PRO	A	74	28.489	27.786	27.292	1.00	0.00
ATOM	596	1HB	PRO	A	74	28.705	26.675	29.835	1.00	0.00
ATOM	597	2HB	PRO	A	74	29.437	25.893	28.427	1.00	0.00
ATOM	598	1HG	PRO	A	74	30.734	27.698	30.495	1.00	0.00
ATOM	599	2HG	PRO	A	74	31.330	26.177	29.817	1.00	0.00
ATOM	600	1HD	PRO	A	74	32.240	28.579	28.888	1.00	0.00
ATOM	601	2HD	PRO	A	74	32.046	27.204	27.795	1.00	0.00
ATOM	602	N	THR	A	75	28.752	30.010	29.549	1.00	0.00
ATOM	603	CA	THR	A	75	27.953	30.951	30.325	1.00	0.00
ATOM	604	C	THR	A	75	28.117	32.427	29.955	1.00	0.00
ATOM	605	O	THR	A	75	27.674	33.302	30.697	1.00	0.00
ATOM	606	CB	THR	A	75	28.265	30.799	31.825	1.00	0.00
ATOM	607	OG1	THR	A	75	29.664	31.018	32.050	1.00	0.00
ATOM	608	CG2	THR	A	75	27.890	29.407	32.310	1.00	0.00
ATOM	609	H	THR	A	75	29.752	30.143	29.492	1.00	0.00
ATOM	610	HA	THR	A	75	26.893	30.763	30.155	1.00	0.00
ATOM	611	HB	THR	A	75	27.696	31.543	32.383	1.00	0.00
ATOM	612	HG1	THR	A	75	29.856	30.922	32.986	1.00	0.00
ATOM	613	1HG2	THR	A	75	28.117	29.319	33.372	1.00	0.00
ATOM	614	2HG2	THR	A	75	26.824	29.242	32.151	1.00	0.00
ATOM	615	3HG2	THR	A	75	28.459	28.663	31.754	1.00	0.00
ATOM	616	N	THR	A	76	28.740	32.706	28.815	1.00	0.00
ATOM	617	CA	THR	A	76	28.956	34.083	28.393	1.00	0.00
ATOM	618	C	THR	A	76	28.517	34.274	26.953	1.00	0.00
ATOM	619	O	THR	A	76	28.486	33.319	26.186	1.00	0.00
ATOM	620	CB	THR	A	76	30.433	34.498	28.531	1.00	0.00
ATOM	621	OG1	THR	A	76	31.243	33.678	27.679	1.00	0.00
ATOM	622	CG2	THR	A	76	30.898	34.343	29.970	1.00	0.00
ATOM	623	H	THR	A	76	29.071	31.954	28.228	1.00	0.00
ATOM	624	HA	THR	A	76	28.349	34.755	29.001	1.00	0.00
ATOM	625	HB	THR	A	76	30.538	35.539	28.226	1.00	0.00
ATOM	626	HG1	THR	A	76	32.164	33.938	27.767	1.00	0.00

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ATOM	627	1HG2	THR	A	76	31.944	34.641	30.048	1.00	0.00
ATOM	628	2HG2	THR	A	76	30.291	34.974	30.619	1.00	0.00
ATOM	629	3HG2	THR	A	76	30.794	33.302	30.275	1.00	0.00
ATOM	630	N	ASN	A	77	28.175	35.506	26.584	1.00	0.00
ATOM	631	CA	ASN	A	77	27.760	35.785	25.214	1.00	0.00
ATOM	632	C	ASN	A	77	28.915	35.476	24.282	1.00	0.00
ATOM	633	O	ASN	A	77	30.072	35.553	24.680	1.00	0.00
ATOM	634	CB	ASN	A	77	27.429	37.269	24.975	1.00	0.00
ATOM	635	CG	ASN	A	77	26.175	37.733	25.687	1.00	0.00
ATOM	636	OD1	ASN	A	77	25.506	36.982	26.386	1.00	0.00
ATOM	637	ND2	ASN	A	77	25.907	39.039	25.506	1.00	0.00
ATOM	638	H	ASN	A	77	28.200	36.261	27.254	1.00	0.00
ATOM	639	HA	ASN	A	77	26.924	35.139	24.942	1.00	0.00
ATOM	640	1HB	ASN	A	77	28.200	38.035	25.069	1.00	0.00
ATOM	641	2HB	ASN	A	77	27.198	37.113	23.921	1.00	0.00
ATOM	642	1HD2	ASN	A	77	25.100	39.447	25.934	1.00	0.00
ATOM	643	2HD2	ASN	A	77	26.514	39.601	24.944	1.00	0.00
ATOM	644	N	VAL	A	78	28.609	35.125	23.041	1.00	0.00
ATOM	645	CA	VAL	A	78	29.667	34.873	22.075	1.00	0.00
ATOM	646	C	VAL	A	78	29.420	35.768	20.878	1.00	0.00
ATOM	647	O	VAL	A	78	28.430	35.598	20.182	1.00	0.00
ATOM	648	CB	VAL	A	78	29.720	33.400	21.627	1.00	0.00
ATOM	649	CG1	VAL	A	78	30.824	33.195	20.601	1.00	0.00
ATOM	650	CG2	VAL	A	78	29.931	32.486	22.824	1.00	0.00
ATOM	651	H	VAL	A	78	27.646	35.029	22.752	1.00	0.00
ATOM	652	HA	VAL	A	78	30.645	35.138	22.479	1.00	0.00
ATOM	653	HB	VAL	A	78	28.760	33.129	21.187	1.00	0.00
ATOM	654	1HG1	VAL	A	78	30.848	32.149	20.295	1.00	0.00
ATOM	655	2HG1	VAL	A	78	30.634	33.823	19.730	1.00	0.00
ATOM	656	3HG1	VAL	A	78	31.784	33.465	21.040	1.00	0.00
ATOM	657	1HG2	VAL	A	78	29.966	31.450	22.490	1.00	0.00
ATOM	658	2HG2	VAL	A	78	30.871	32.741	23.314	1.00	0.00
ATOM	659	3HG2	VAL	A	78	29.108	32.612	23.528	1.00	0.00
ATOM	660	N	LEU	A	79	30.293	36.743	20.652	1.00	0.00
ATOM	661	CA	LEU	A	79	30.130	37.611	19.497	1.00	0.00
ATOM	662	C	LEU	A	79	31.255	37.226	18.554	1.00	0.00
ATOM	663	O	LEU	A	79	32.421	37.174	18.955	1.00	0.00
ATOM	664	CB	LEU	A	79	30.267	39.066	19.930	1.00	0.00
ATOM	665	CG	LEU	A	79	29.956	40.026	18.790	1.00	0.00
ATOM	666	CD1	LEU	A	79	28.497	39.887	18.350	1.00	0.00
ATOM	667	CD2	LEU	A	79	30.353	41.462	19.132	1.00	0.00
ATOM	668	H	LEU	A	79	31.075	36.893	21.274	1.00	0.00
ATOM	669	HA	LEU	A	79	29.164	37.421	19.031	1.00	0.00
ATOM	670	1HB	LEU	A	79	29.493	39.097	20.695	1.00	0.00
ATOM	671	2HB	LEU	A	79	31.237	39.262	20.387	1.00	0.00
ATOM	672	HG	LEU	A	79	30.566	39.725	17.938	1.00	0.00
ATOM	673	1HD1	LEU	A	79	28.295	40.581	17.534	1.00	0.00
ATOM	674	2HD1	LEU	A	79	28.315	38.867	18.011	1.00	0.00
ATOM	675	3HD1	LEU	A	79	27.841	40.113	19.190	1.00	0.00
ATOM	676	1HD2	LEU	A	79	30.115	42.115	18.291	1.00	0.00
ATOM	677	2HD2	LEU	A	79	29.805	41.791	20.015	1.00	0.00
ATOM	678	3HD2	LEU	A	79	31.424	41.506	19.333	1.00	0.00
ATOM	679	N	LEU	A	80	30.904	36.950	17.303	1.00	0.00
ATOM	680	CA	LEU	A	80	31.897	36.512	16.344	1.00	0.00
ATOM	681	C	LEU	A	80	31.616	36.965	14.920	1.00	0.00
ATOM	682	O	LEU	A	80	30.477	36.940	14.467	1.00	0.00
ATOM	683	CB	LEU	A	80	32.009	34.983	16.391	1.00	0.00
ATOM	684	CG	LEU	A	80	32.750	34.420	17.611	1.00	0.00
ATOM	685	CD1	LEU	A	80	32.596	32.906	17.662	1.00	0.00
ATOM	686	CD2	LEU	A	80	34.218	34.810	17.539	1.00	0.00
ATOM	687	H	LEU	A	80	29.942	37.043	17.008	1.00	0.00
ATOM	688	HA	LEU	A	80	32.862	36.952	16.591	1.00	0.00
ATOM	689	1HB	LEU	A	80	30.952	34.730	16.446	1.00	0.00

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ATOM	690	2HB	LEU	A	80	32.431	34.581	15.470	1.00	0.00
ATOM	691	HG	LEU	A	80	32.322	34.892	18.496	1.00	0.00
ATOM	692	1HD1	LEU	A	80	33.125	32.515	18.531	1.00	0.00
ATOM	693	2HD1	LEU	A	80	31.539	32.650	17.736	1.00	0.00
ATOM	694	3HD1	LEU	A	80	33.013	32.467	16.756	1.00	0.00
ATOM	695	1HD2	LEU	A	80	34.744	34.410	18.407	1.00	0.00
ATOM	696	2HD2	LEU	A	80	34.659	34.404	16.628	1.00	0.00
ATOM	697	3HD2	LEU	A	80	34.307	35.897	17.531	1.00	0.00
ATOM	698	N	SER	A	81	32.666	37.380	14.220	1.00	0.00
ATOM	699	CA	SER	A	81	32.550	37.805	12.828	1.00	0.00
ATOM	700	C	SER	A	81	33.652	37.063	12.068	1.00	0.00
ATOM	701	O	SER	A	81	34.631	37.657	11.614	1.00	0.00
ATOM	702	CB	SER	A	81	32.688	39.309	12.691	1.00	0.00
ATOM	703	OG	SER	A	81	32.411	39.747	11.389	1.00	0.00
ATOM	704	H	SER	A	81	33.571	37.401	14.667	1.00	0.00
ATOM	705	HA	SER	A	81	31.554	37.654	12.411	1.00	0.00
ATOM	706	1HB	SER	A	81	31.992	39.786	13.381	1.00	0.00
ATOM	707	2HB	SER	A	81	33.707	39.591	12.951	1.00	0.00
ATOM	708	HG	SER	A	81	31.663	39.256	11.039	1.00	0.00
ATOM	709	N	PRO	A	82	33.494	35.736	11.934	1.00	0.00
ATOM	710	CA	PRO	A	82	34.369	34.765	11.274	1.00	0.00
ATOM	711	C	PRO	A	82	35.039	35.202	9.975	1.00	0.00
ATOM	712	O	PRO	A	82	36.200	34.864	9.738	1.00	0.00
ATOM	713	CB	PRO	A	82	33.428	33.581	11.030	1.00	0.00
ATOM	714	CG	PRO	A	82	32.463	33.633	12.165	1.00	0.00
ATOM	715	CD	PRO	A	82	32.314	35.094	12.495	1.00	0.00
ATOM	716	HA	PRO	A	82	35.242	34.495	11.886	1.00	0.00
ATOM	717	1HB	PRO	A	82	32.911	33.670	10.063	1.00	0.00
ATOM	718	2HB	PRO	A	82	33.976	32.627	11.016	1.00	0.00
ATOM	719	1HG	PRO	A	82	31.496	33.189	11.886	1.00	0.00
ATOM	720	2HG	PRO	A	82	32.838	33.068	13.031	1.00	0.00
ATOM	721	1HD	PRO	A	82	31.411	35.532	12.044	1.00	0.00
ATOM	722	2HD	PRO	A	82	32.250	35.271	13.579	1.00	0.00
ATOM	723	N	LEU	A	83	34.312	35.938	9.134	1.00	0.00
ATOM	724	CA	LEU	A	83	34.853	36.393	7.856	1.00	0.00
ATOM	725	C	LEU	A	83	36.252	37.018	7.941	1.00	0.00
ATOM	726	O	LEU	A	83	37.136	36.679	7.158	1.00	0.00
ATOM	727	CB	LEU	A	83	33.870	37.379	7.223	1.00	0.00
ATOM	728	CG	LEU	A	83	34.317	37.925	5.864	1.00	0.00
ATOM	729	CD1	LEU	A	83	34.426	36.830	4.800	1.00	0.00
ATOM	730	CD2	LEU	A	83	33.427	39.080	5.410	1.00	0.00
ATOM	731	H	LEU	A	83	33.366	36.187	9.385	1.00	0.00
ATOM	732	HA	LEU	A	83	34.979	35.541	7.189	1.00	0.00
ATOM	733	1HB	LEU	A	83	33.011	36.721	7.104	1.00	0.00
ATOM	734	2HB	LEU	A	83	33.615	38.189	7.906	1.00	0.00
ATOM	735	HG	LEU	A	83	35.322	38.328	5.992	1.00	0.00
ATOM	736	1HD1	LEU	A	83	34.746	37.270	3.856	1.00	0.00
ATOM	737	2HD1	LEU	A	83	35.156	36.085	5.118	1.00	0.00
ATOM	738	3HD1	LEU	A	83	33.455	36.354	4.667	1.00	0.00
ATOM	739	1HD2	LEU	A	83	33.772	39.445	4.442	1.00	0.00
ATOM	740	2HD2	LEU	A	83	32.397	38.734	5.322	1.00	0.00
ATOM	741	3HD2	LEU	A	83	33.477	39.887	6.141	1.00	0.00
ATOM	742	N	SER	A	84	36.453	37.927	8.888	1.00	0.00
ATOM	743	CA	SER	A	84	37.750	38.575	9.050	1.00	0.00
ATOM	744	C	SER	A	84	38.857	37.567	9.374	1.00	0.00
ATOM	745	O	SER	A	84	40.011	37.744	8.986	1.00	0.00
ATOM	746	CB	SER	A	84	37.665	39.630	10.135	1.00	0.00
ATOM	747	OG	SER	A	84	37.418	39.071	11.396	1.00	0.00
ATOM	748	H	SER	A	84	35.697	38.177	9.509	1.00	0.00
ATOM	749	HA	SER	A	84	38.047	39.172	8.186	1.00	0.00
ATOM	750	1HB	SER	A	84	38.609	40.173	10.168	1.00	0.00
ATOM	751	2HB	SER	A	84	36.859	40.320	9.889	1.00	0.00
ATOM	752	HG	SER	A	84	36.584	38.594	11.376	1.00	0.00

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ATOM	753	N	VAL	A	85	38.499	36.508	10.089	1.00	0.00
ATOM	754	CA	VAL	A	85	39.461	35.479	10.462	1.00	0.00
ATOM	755	C	VAL	A	85	39.689	34.488	9.328	1.00	0.00
ATOM	756	O	VAL	A	85	40.810	34.032	9.114	1.00	0.00
ATOM	757	CB	VAL	A	85	39.004	34.710	11.716	1.00	0.00
ATOM	758	CG1	VAL	A	85	39.954	33.559	12.011	1.00	0.00
ATOM	759	CG2	VAL	A	85	38.915	35.645	12.912	1.00	0.00
ATOM	760	H	VAL	A	85	37.537	36.412	10.382	1.00	0.00
ATOM	761	HA	VAL	A	85	40.445	35.907	10.655	1.00	0.00
ATOM	762	HB	VAL	A	85	38.001	34.318	11.545	1.00	0.00
ATOM	763	1HG1	VAL	A	85	39.616	33.026	12.900	1.00	0.00
ATOM	764	2HG1	VAL	A	85	39.971	32.875	11.163	1.00	0.00
ATOM	765	3HG1	VAL	A	85	40.957	33.950	12.183	1.00	0.00
ATOM	766	1HG2	VAL	A	85	38.590	35.086	13.789	1.00	0.00
ATOM	767	2HG2	VAL	A	85	39.895	36.084	13.103	1.00	0.00
ATOM	768	3HG2	VAL	A	85	38.197	36.438	12.702	1.00	0.00
ATOM	769	N	ALA	A	86	38.623	34.152	8.607	1.00	0.00
ATOM	770	CA	ALA	A	86	38.732	33.215	7.496	1.00	0.00
ATOM	771	C	ALA	A	86	39.618	33.834	6.424	1.00	0.00
ATOM	772	O	ALA	A	86	40.443	33.152	5.804	1.00	0.00
ATOM	773	CB	ALA	A	86	37.359	32.921	6.903	1.00	0.00
ATOM	774	H	ALA	A	86	37.721	34.550	8.829	1.00	0.00
ATOM	775	HA	ALA	A	86	39.200	32.299	7.856	1.00	0.00
ATOM	776	1HB	ALA	A	86	37.464	32.219	6.075	1.00	0.00
ATOM	777	2HB	ALA	A	86	36.717	32.485	7.669	1.00	0.00
ATOM	778	3HB	ALA	A	86	36.914	33.846	6.540	1.00	0.00
ATOM	779	N	THR	A	87	39.445	35.139	6.224	1.00	0.00
ATOM	780	CA	THR	A	87	40.210	35.876	5.235	1.00	0.00
ATOM	781	C	THR	A	87	41.701	35.902	5.558	1.00	0.00
ATOM	782	O	THR	A	87	42.533	35.831	4.656	1.00	0.00
ATOM	783	CB	THR	A	87	39.579	37.253	5.078	1.00	0.00
ATOM	784	OG1	THR	A	87	38.188	37.078	4.797	1.00	0.00
ATOM	785	CG2	THR	A	87	40.253	38.096	3.993	1.00	0.00
ATOM	786	H	THR	A	87	38.759	35.629	6.780	1.00	0.00
ATOM	787	HA	THR	A	87	40.128	35.386	4.265	1.00	0.00
ATOM	788	HB	THR	A	87	39.657	37.789	6.024	1.00	0.00
ATOM	789	HG1	THR	A	87	37.982	36.140	4.774	1.00	0.00
ATOM	790	1HG2	THR	A	87	39.760	39.066	3.928	1.00	0.00
ATOM	791	2HG2	THR	A	87	41.304	38.238	4.244	1.00	0.00
ATOM	792	3HG2	THR	A	87	40.174	37.584	3.035	1.00	0.00
ATOM	793	N	ALA	A	88	42.046	36.010	6.834	1.00	0.00
ATOM	794	CA	ALA	A	88	43.455	36.028	7.205	1.00	0.00
ATOM	795	C	ALA	A	88	44.100	34.663	6.925	1.00	0.00
ATOM	796	O	ALA	A	88	45.259	34.588	6.502	1.00	0.00
ATOM	797	CB	ALA	A	88	43.610	36.374	8.687	1.00	0.00
ATOM	798	H	ALA	A	88	41.346	36.080	7.558	1.00	0.00
ATOM	799	HA	ALA	A	88	43.968	36.770	6.593	1.00	0.00
ATOM	800	1HB	ALA	A	88	44.668	36.384	8.949	1.00	0.00
ATOM	801	2HB	ALA	A	88	43.180	37.357	8.878	1.00	0.00
ATOM	802	3HB	ALA	A	88	43.095	35.628	9.290	1.00	0.00
ATOM	803	N	LEU	A	89	43.350	33.586	7.146	1.00	0.00
ATOM	804	CA	LEU	A	89	43.881	32.248	6.900	1.00	0.00
ATOM	805	C	LEU	A	89	44.070	32.009	5.412	1.00	0.00
ATOM	806	O	LEU	A	89	45.096	31.482	4.979	1.00	0.00
ATOM	807	CB	LEU	A	89	42.951	31.184	7.498	1.00	0.00
ATOM	808	CG	LEU	A	89	42.909	31.141	9.031	1.00	0.00
ATOM	809	CD1	LEU	A	89	41.699	30.344	9.497	1.00	0.00
ATOM	810	CD2	LEU	A	89	44.197	30.524	9.558	1.00	0.00
ATOM	811	H	LEU	A	89	42.404	33.685	7.487	1.00	0.00
ATOM	812	HA	LEU	A	89	44.864	32.155	7.361	1.00	0.00
ATOM	813	1HB	LEU	A	89	42.000	31.542	7.108	1.00	0.00
ATOM	814	2HB	LEU	A	89	43.160	30.193	7.095	1.00	0.00
ATOM	815	HG	LEU	A	89	42.865	32.172	9.383	1.00	0.00

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ATOM	816	1HD1	LEU	A	89	41.677	30.319	10.587	1.00	0.00
ATOM	817	2HD1	LEU	A	89	40.788	30.817	9.128	1.00	0.00
ATOM	818	3HD1	LEU	A	89	41.762	29.327	9.113	1.00	0.00
ATOM	819	1HD2	LEU	A	89	44.166	30.495	10.647	1.00	0.00
ATOM	820	2HD2	LEU	A	89	44.301	29.511	9.169	1.00	0.00
ATOM	821	3HD2	LEU	A	89	45.047	31.126	9.235	1.00	0.00
ATOM	822	N	SER	A	90	43.075	32.402	4.627	1.00	0.00
ATOM	823	CA	SER	A	90	43.137	32.211	3.183	1.00	0.00
ATOM	824	C	SER	A	90	44.247	33.046	2.546	1.00	0.00
ATOM	825	O	SER	A	90	44.881	32.627	1.584	1.00	0.00
ATOM	826	CB	SER	A	90	41.723	32.569	2.691	1.00	0.00
ATOM	827	OG	SER	A	90	41.444	32.117	1.359	1.00	0.00
ATOM	828	H	SER	A	90	42.260	32.841	5.031	1.00	0.00
ATOM	829	HA	SER	A	90	43.255	31.167	2.889	1.00	0.00
ATOM	830	1HB	SER	A	90	40.995	32.115	3.363	1.00	0.00
ATOM	831	2HB	SER	A	90	41.609	33.652	2.713	1.00	0.00
ATOM	832	HG	SER	A	90	42.213	31.661	1.009	1.00	0.00
ATOM	833	N	ALA	A	91	44.476	34.235	3.087	1.00	0.00
ATOM	834	CA	ALA	A	91	45.519	35.112	2.577	1.00	0.00
ATOM	835	C	ALA	A	91	46.862	34.427	2.834	1.00	0.00
ATOM	836	O	ALA	A	91	47.673	34.253	1.922	1.00	0.00
ATOM	837	CB	ALA	A	91	45.465	36.428	3.347	1.00	0.00
ATOM	838	H	ALA	A	91	43.916	34.540	3.870	1.00	0.00
ATOM	839	HA	ALA	A	91	45.374	35.240	1.504	1.00	0.00
ATOM	840	1HB	ALA	A	91	46.241	37.097	2.976	1.00	0.00
ATOM	841	2HB	ALA	A	91	44.489	36.892	3.207	1.00	0.00
ATOM	842	3HB	ALA	A	91	45.628	36.236	4.406	1.00	0.00
ATOM	843	N	LEU	A	92	47.080	34.022	4.081	1.00	0.00
ATOM	844	CA	LEU	A	92	48.313	33.351	4.470	1.00	0.00
ATOM	845	C	LEU	A	92	48.600	32.125	3.596	1.00	0.00
ATOM	846	O	LEU	A	92	49.740	31.893	3.193	1.00	0.00
ATOM	847	CB	LEU	A	92	48.192	32.950	5.942	1.00	0.00
ATOM	848	CG	LEU	A	92	49.479	32.430	6.580	1.00	0.00
ATOM	849	CD1	LEU	A	92	50.560	33.508	6.618	1.00	0.00
ATOM	850	CD2	LEU	A	92	49.221	31.842	7.968	1.00	0.00
ATOM	851	H	LEU	A	92	46.368	34.186	4.778	1.00	0.00
ATOM	852	HA	LEU	A	92	49.157	34.025	4.325	1.00	0.00
ATOM	853	1HB	LEU	A	92	47.927	33.917	6.368	1.00	0.00
ATOM	854	2HB	LEU	A	92	47.375	32.246	6.103	1.00	0.00
ATOM	855	HG	LEU	A	92	49.845	31.616	5.954	1.00	0.00
ATOM	856	1HD1	LEU	A	92	51.462	33.104	7.078	1.00	0.00
ATOM	857	2HD1	LEU	A	92	50.786	33.832	5.602	1.00	0.00
ATOM	858	3HD1	LEU	A	92	50.206	34.358	7.201	1.00	0.00
ATOM	859	1HD2	LEU	A	92	50.160	31.482	8.390	1.00	0.00
ATOM	860	2HD2	LEU	A	92	48.802	32.611	8.617	1.00	0.00
ATOM	861	3HD2	LEU	A	92	48.518	31.013	7.887	1.00	0.00
ATOM	862	N	SER	A	93	47.562	31.348	3.299	1.00	0.00
ATOM	863	CA	SER	A	93	47.716	30.146	2.487	1.00	0.00
ATOM	864	C	SER	A	93	48.357	30.406	1.121	1.00	0.00
ATOM	865	O	SER	A	93	48.612	29.468	0.362	1.00	0.00
ATOM	866	CB	SER	A	93	46.363	29.487	2.305	1.00	0.00
ATOM	867	OG	SER	A	93	45.575	30.155	1.357	1.00	0.00
ATOM	868	H	SER	A	93	46.645	31.595	3.643	1.00	0.00
ATOM	869	HA	SER	A	93	48.284	29.358	2.983	1.00	0.00
ATOM	870	1HB	SER	A	93	46.517	28.460	1.976	1.00	0.00
ATOM	871	2HB	SER	A	93	45.842	29.487	3.261	1.00	0.00
ATOM	872	HG	SER	A	93	45.685	31.103	1.462	1.00	0.00
ATOM	873	N	LEU	A	94	48.612	31.671	0.802	1.00	0.00
ATOM	874	CA	LEU	A	94	49.245	32.004	-0.465	1.00	0.00
ATOM	875	C	LEU	A	94	50.732	31.683	-0.390	1.00	0.00
ATOM	876	O	LEU	A	94	51.312	31.142	-1.329	1.00	0.00
ATOM	877	CB	LEU	A	94	49.023	33.482	-0.809	1.00	0.00
ATOM	878	CG	LEU	A	94	47.610	33.834	-1.294	1.00	0.00

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ATOM	879	CD1	LEU	A	94	47.474	35.343	-1.453	1.00	0.00
ATOM	880	CD2	LEU	A	94	47.333	33.125	-2.611	1.00	0.00
ATOM	881	H	LEU	A	94	48.367	32.415	1.440	1.00	0.00
ATOM	882	HA	LEU	A	94	48.817	31.393	-1.259	1.00	0.00
ATOM	883	1HB	LEU	A	94	49.202	33.921	0.171	1.00	0.00
ATOM	884	2HB	LEU	A	94	49.769	33.849	-1.513	1.00	0.00
ATOM	885	HG	LEU	A	94	46.909	33.449	-0.553	1.00	0.00
ATOM	886	1HD1	LEU	A	94	46.468	35.583	-1.798	1.00	0.00
ATOM	887	2HD1	LEU	A	94	47.654	35.828	-0.494	1.00	0.00
ATOM	888	3HD1	LEU	A	94	48.201	35.698	-2.183	1.00	0.00
ATOM	889	1HD2	LEU	A	94	46.329	33.376	-2.954	1.00	0.00
ATOM	890	2HD2	LEU	A	94	48.062	33.444	-3.357	1.00	0.00
ATOM	891	3HD2	LEU	A	94	47.408	32.047	-2.467	1.00	0.00
ATOM	892	N	GLY	A	95	51.350	32.014	0.735	1.00	0.00
ATOM	893	CA	GLY	A	95	52.767	31.746	0.886	1.00	0.00
ATOM	894	C	GLY	A	95	52.998	30.430	1.590	1.00	0.00
ATOM	895	O	GLY	A	95	53.922	30.311	2.391	1.00	0.00
ATOM	896	H	GLY	A	95	50.849	32.452	1.494	1.00	0.00
ATOM	897	1HA	GLY	A	95	53.230	31.709	-0.100	1.00	0.00
ATOM	898	2HA	GLY	A	95	53.221	32.547	1.469	1.00	0.00
ATOM	899	N	ALA	A	96	52.156	29.443	1.295	1.00	0.00
ATOM	900	CA	ALA	A	96	52.272	28.127	1.916	1.00	0.00
ATOM	901	C	ALA	A	96	52.518	27.062	0.864	1.00	0.00
ATOM	902	O	ALA	A	96	52.180	27.244	-0.307	1.00	0.00
ATOM	903	CB	ALA	A	96	50.986	27.768	2.661	1.00	0.00
ATOM	904	H	ALA	A	96	51.418	29.608	0.625	1.00	0.00
ATOM	905	HA	ALA	A	96	53.128	28.133	2.591	1.00	0.00
ATOM	906	1HB	ALA	A	96	51.093	26.784	3.117	1.00	0.00
ATOM	907	2HB	ALA	A	96	50.796	28.508	3.438	1.00	0.00
ATOM	908	3HB	ALA	A	96	50.152	27.754	1.961	1.00	0.00
ATOM	909	N	ASP	A	97	53.101	25.943	1.280	1.00	0.00
ATOM	910	CA	ASP	A	97	53.373	24.874	0.339	1.00	0.00
ATOM	911	C	ASP	A	97	52.367	23.730	0.463	1.00	0.00
ATOM	912	O	ASP	A	97	51.745	23.539	1.513	1.00	0.00
ATOM	913	CB	ASP	A	97	54.796	24.347	0.540	1.00	0.00
ATOM	914	CG	ASP	A	97	55.314	23.484	-0.602	1.00	0.00
ATOM	915	OD1	ASP	A	97	54.644	23.393	-1.604	1.00	0.00
ATOM	916	OD2	ASP	A	97	56.440	23.052	-0.530	1.00	0.00
ATOM	917	H	ASP	A	97	53.360	25.823	2.249	1.00	0.00
ATOM	918	HA	ASP	A	97	53.277	25.247	-0.681	1.00	0.00
ATOM	919	1HB	ASP	A	97	55.522	25.129	0.762	1.00	0.00
ATOM	920	2HB	ASP	A	97	54.647	23.726	1.425	1.00	0.00
ATOM	921	N	GLU	A	98	52.221	22.985	-0.630	1.00	0.00
ATOM	922	CA	GLU	A	98	51.319	21.843	-0.723	1.00	0.00
ATOM	923	C	GLU	A	98	50.702	21.355	0.580	1.00	0.00
ATOM	924	O	GLU	A	98	49.563	21.687	0.887	1.00	0.00
ATOM	925	CB	GLU	A	98	52.059	20.677	-1.382	1.00	0.00
ATOM	926	CG	GLU	A	98	51.208	19.435	-1.600	1.00	0.00
ATOM	927	CD	GLU	A	98	52.050	18.264	-2.027	1.00	0.00
ATOM	928	OE1	GLU	A	98	53.240	18.425	-2.148	1.00	0.00
ATOM	929	OE2	GLU	A	98	51.521	17.182	-2.123	1.00	0.00
ATOM	930	H	GLU	A	98	52.776	23.240	-1.434	1.00	0.00
ATOM	931	HA	GLU	A	98	50.449	22.107	-1.326	1.00	0.00
ATOM	932	1HB	GLU	A	98	52.428	21.037	-2.343	1.00	0.00
ATOM	933	2HB	GLU	A	98	52.903	20.430	-0.738	1.00	0.00
ATOM	934	1HG	GLU	A	98	50.616	19.156	-0.729	1.00	0.00
ATOM	935	2HG	GLU	A	98	50.543	19.719	-2.415	1.00	0.00
ATOM	936	N	ARG	A	99	51.456	20.560	1.335	1.00	0.00
ATOM	937	CA	ARG	A	99	50.976	19.990	2.589	1.00	0.00
ATOM	938	C	ARG	A	99	50.323	20.992	3.537	1.00	0.00
ATOM	939	O	ARG	A	99	49.246	20.719	4.067	1.00	0.00
ATOM	940	CB	ARG	A	99	52.083	19.225	3.300	1.00	0.00
ATOM	941	CG	ARG	A	99	52.483	17.916	2.638	1.00	0.00

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ATOM	942	CD	ARG	A	99	53.596	17.203	3.315	1.00	0.00
ATOM	943	NE	ARG	A	99	54.008	15.971	2.662	1.00	0.00
ATOM	944	CZ	ARG	A	99	55.068	15.226	3.032	1.00	0.00
ATOM	945	NH1	ARG	A	99	55.847	15.601	4.023	1.00	0.00
ATOM	946	NH2	ARG	A	99	55.320	14.119	2.356	1.00	0.00
ATOM	947	H	ARG	A	99	52.393	20.347	1.024	1.00	0.00
ATOM	948	HA	ARG	A	99	50.191	19.261	2.386	1.00	0.00
ATOM	949	1HB	ARG	A	99	52.948	19.885	3.343	1.00	0.00
ATOM	950	2HB	ARG	A	99	51.730	19.023	4.311	1.00	0.00
ATOM	951	1HG	ARG	A	99	51.617	17.254	2.628	1.00	0.00
ATOM	952	2HG	ARG	A	99	52.791	18.126	1.614	1.00	0.00
ATOM	953	1HD	ARG	A	99	54.465	17.859	3.353	1.00	0.00
ATOM	954	2HD	ARG	A	99	53.289	16.948	4.329	1.00	0.00
ATOM	955	HE	ARG	A	99	53.599	15.493	1.870	1.00	0.00
ATOM	956	1HH1	ARG	A	99	55.651	16.460	4.518	1.00	0.00
ATOM	957	2HH1	ARG	A	99	56.636	15.029	4.285	1.00	0.00
ATOM	958	1HH2	ARG	A	99	54.722	13.854	1.585	1.00	0.00
ATOM	959	2HH2	ARG	A	99	56.108	13.543	2.612	1.00	0.00
ATOM	960	N	THR	A	100	50.961	22.141	3.752	1.00	0.00
ATOM	961	CA	THR	A	100	50.419	23.159	4.655	1.00	0.00
ATOM	962	C	THR	A	100	49.189	23.837	4.056	1.00	0.00
ATOM	963	O	THR	A	100	48.175	24.042	4.730	1.00	0.00
ATOM	964	CB	THR	A	100	51.469	24.234	4.990	1.00	0.00
ATOM	965	OG1	THR	A	100	52.583	23.626	5.657	1.00	0.00
ATOM	966	CG2	THR	A	100	50.869	25.305	5.888	1.00	0.00
ATOM	967	H	THR	A	100	51.838	22.316	3.283	1.00	0.00
ATOM	968	HA	THR	A	100	50.090	22.691	5.583	1.00	0.00
ATOM	969	HB	THR	A	100	51.817	24.690	4.064	1.00	0.00
ATOM	970	HG1	THR	A	100	52.778	22.780	5.247	1.00	0.00
ATOM	971	1HG2	THR	A	100	51.626	26.056	6.113	1.00	0.00
ATOM	972	2HG2	THR	A	100	50.029	25.777	5.378	1.00	0.00
ATOM	973	3HG2	THR	A	100	50.522	24.849	6.814	1.00	0.00
ATOM	974	N	GLU	A	101	49.292	24.180	2.778	1.00	0.00
ATOM	975	CA	GLU	A	101	48.197	24.817	2.055	1.00	0.00
ATOM	976	C	GLU	A	101	46.912	23.997	2.177	1.00	0.00
ATOM	977	O	GLU	A	101	45.854	24.542	2.484	1.00	0.00
ATOM	978	CB	GLU	A	101	48.566	25.007	0.582	1.00	0.00
ATOM	979	CG	GLU	A	101	47.498	25.703	-0.249	1.00	0.00
ATOM	980	CD	GLU	A	101	47.963	25.924	-1.662	1.00	0.00
ATOM	981	OE1	GLU	A	101	48.336	24.970	-2.301	1.00	0.00
ATOM	982	OE2	GLU	A	101	47.840	27.027	-2.140	1.00	0.00
ATOM	983	H	GLU	A	101	50.158	23.992	2.293	1.00	0.00
ATOM	984	HA	GLU	A	101	47.986	25.795	2.490	1.00	0.00
ATOM	985	1HB	GLU	A	101	49.484	25.594	0.557	1.00	0.00
ATOM	986	2HB	GLU	A	101	48.757	24.015	0.171	1.00	0.00
ATOM	987	1HG	GLU	A	101	46.545	25.174	-0.260	1.00	0.00
ATOM	988	2HG	GLU	A	101	47.373	26.664	0.247	1.00	0.00
ATOM	989	N	SER	A	102	47.020	22.690	1.931	1.00	0.00
ATOM	990	CA	SER	A	102	45.886	21.773	2.011	1.00	0.00
ATOM	991	C	SER	A	102	45.248	21.821	3.384	1.00	0.00
ATOM	992	O	SER	A	102	44.026	21.949	3.497	1.00	0.00
ATOM	993	CB	SER	A	102	46.326	20.359	1.685	1.00	0.00
ATOM	994	OG	SER	A	102	45.266	19.446	1.767	1.00	0.00
ATOM	995	H	SER	A	102	47.929	22.328	1.679	1.00	0.00
ATOM	996	HA	SER	A	102	45.134	21.946	1.240	1.00	0.00
ATOM	997	1HB	SER	A	102	46.729	20.345	0.672	1.00	0.00
ATOM	998	2HB	SER	A	102	47.104	20.064	2.388	1.00	0.00
ATOM	999	HG	SER	A	102	45.487	18.655	1.269	1.00	0.00
ATOM	1000	N	ILE	A	103	46.073	21.708	4.425	1.00	0.00
ATOM	1001	CA	ILE	A	103	45.576	21.768	5.794	1.00	0.00
ATOM	1002	C	ILE	A	103	44.639	22.972	5.901	1.00	0.00
ATOM	1003	O	ILE	A	103	43.522	22.859	6.406	1.00	0.00
ATOM	1004	CB	ILE	A	103	46.713	21.890	6.825	1.00	0.00

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ATOM	1005	CG1	ILE	A	103	47.479	20.570	6.934	1.00	0.00
ATOM	1006	CG2	ILE	A	103	46.159	22.301	8.181	1.00	0.00
ATOM	1007	CD1	ILE	A	103	46.643	19.419	7.446	1.00	0.00
ATOM	1008	H	ILE	A	103	47.062	21.578	4.266	1.00	0.00
ATOM	1009	HA	ILE	A	103	44.981	20.885	6.026	1.00	0.00
ATOM	1010	HB	ILE	A	103	47.425	22.639	6.481	1.00	0.00
ATOM	1011	1HG1	ILE	A	103	47.857	20.331	5.941	1.00	0.00
ATOM	1012	2HG1	ILE	A	103	48.318	20.737	7.610	1.00	0.00
ATOM	1013	1HG2	ILE	A	103	46.975	22.383	8.898	1.00	0.00
ATOM	1014	2HG2	ILE	A	103	45.657	23.264	8.092	1.00	0.00
ATOM	1015	3HG2	ILE	A	103	45.447	21.552	8.526	1.00	0.00
ATOM	1016	1HD1	ILE	A	103	47.255	18.518	7.496	1.00	0.00
ATOM	1017	2HD1	ILE	A	103	46.265	19.656	8.441	1.00	0.00
ATOM	1018	3HD1	ILE	A	103	45.805	19.249	6.771	1.00	0.00
ATOM	1019	N	ILE	A	104	45.092	24.119	5.406	1.00	0.00
ATOM	1020	CA	ILE	A	104	44.281	25.329	5.457	1.00	0.00
ATOM	1021	C	ILE	A	104	43.056	25.221	4.555	1.00	0.00
ATOM	1022	O	ILE	A	104	41.927	25.433	5.003	1.00	0.00
ATOM	1023	CB	ILE	A	104	45.097	26.570	5.050	1.00	0.00
ATOM	1024	CG1	ILE	A	104	46.184	26.858	6.089	1.00	0.00
ATOM	1025	CG2	ILE	A	104	44.184	27.774	4.881	1.00	0.00
ATOM	1026	CD1	ILE	A	104	47.198	27.886	5.643	1.00	0.00
ATOM	1027	H	ILE	A	104	46.010	24.159	4.987	1.00	0.00
ATOM	1028	HA	ILE	A	104	43.871	25.475	6.456	1.00	0.00
ATOM	1029	HB	ILE	A	104	45.608	26.366	4.110	1.00	0.00
ATOM	1030	1HG1	ILE	A	104	45.684	27.209	6.992	1.00	0.00
ATOM	1031	2HG1	ILE	A	104	46.690	25.916	6.298	1.00	0.00
ATOM	1032	1HG2	ILE	A	104	44.777	28.643	4.594	1.00	0.00
ATOM	1033	2HG2	ILE	A	104	43.447	27.567	4.106	1.00	0.00
ATOM	1034	3HG2	ILE	A	104	43.674	27.979	5.822	1.00	0.00
ATOM	1035	1HD1	ILE	A	104	47.936	28.037	6.431	1.00	0.00
ATOM	1036	2HD1	ILE	A	104	47.699	27.536	4.740	1.00	0.00
ATOM	1037	3HD1	ILE	A	104	46.694	28.829	5.434	1.00	0.00
ATOM	1038	N	HIS	A	105	43.270	24.887	3.289	1.00	0.00
ATOM	1039	CA	HIS	A	105	42.154	24.780	2.358	1.00	0.00
ATOM	1040	C	HIS	A	105	41.039	23.865	2.827	1.00	0.00
ATOM	1041	O	HIS	A	105	39.870	24.105	2.526	1.00	0.00
ATOM	1042	CB	HIS	A	105	42.657	24.299	0.993	1.00	0.00
ATOM	1043	CG	HIS	A	105	43.330	25.368	0.189	1.00	0.00
ATOM	1044	ND1	HIS	A	105	43.760	25.166	-1.105	1.00	0.00
ATOM	1045	CD2	HIS	A	105	43.647	26.648	0.496	1.00	0.00
ATOM	1046	CE1	HIS	A	105	44.313	26.277	-1.561	1.00	0.00
ATOM	1047	NE2	HIS	A	105	44.257	27.190	-0.609	1.00	0.00
ATOM	1048	H	HIS	A	105	44.206	24.704	2.958	1.00	0.00
ATOM	1049	HA	HIS	A	105	41.681	25.754	2.240	1.00	0.00
ATOM	1050	1HB	HIS	A	105	43.388	23.500	1.122	1.00	0.00
ATOM	1051	2HB	HIS	A	105	41.824	23.935	0.393	1.00	0.00
ATOM	1052	HD2	HIS	A	105	43.507	27.251	1.393	1.00	0.00
ATOM	1053	HE1	HIS	A	105	44.716	26.322	-2.572	1.00	0.00
ATOM	1054	HE2	HIS	A	105	44.604	28.137	-0.673	1.00	0.00
ATOM	1055	N	ARG	A	106	41.394	22.820	3.565	1.00	0.00
ATOM	1056	CA	ARG	A	106	40.397	21.876	4.031	1.00	0.00
ATOM	1057	C	ARG	A	106	39.534	22.421	5.163	1.00	0.00
ATOM	1058	O	ARG	A	106	38.377	22.029	5.306	1.00	0.00
ATOM	1059	CB	ARG	A	106	41.030	20.547	4.417	1.00	0.00
ATOM	1060	CG	ARG	A	106	41.605	19.751	3.256	1.00	0.00
ATOM	1061	CD	ARG	A	106	42.286	18.493	3.654	1.00	0.00
ATOM	1062	NE	ARG	A	106	41.409	17.493	4.243	1.00	0.00
ATOM	1063	CZ	ARG	A	106	41.832	16.363	4.842	1.00	0.00
ATOM	1064	NH1	ARG	A	106	43.111	16.064	4.900	1.00	0.00
ATOM	1065	NH2	ARG	A	106	40.923	15.548	5.348	1.00	0.00
ATOM	1066	H	ARG	A	106	42.363	22.673	3.809	1.00	0.00
ATOM	1067	HA	ARG	A	106	39.699	21.648	3.225	1.00	0.00

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ATOM	1068	1HB	ARG	A	106	41.823	20.768	5.129	1.00	0.00
ATOM	1069	2HB	ARG	A	106	40.255	19.957	4.907	1.00	0.00
ATOM	1070	1HG	ARG	A	106	40.792	19.493	2.576	1.00	0.00
ATOM	1071	2HG	ARG	A	106	42.330	20.376	2.734	1.00	0.00
ATOM	1072	1HD	ARG	A	106	42.745	18.045	2.773	1.00	0.00
ATOM	1073	2HD	ARG	A	106	43.057	18.724	4.388	1.00	0.00
ATOM	1074	HE	ARG	A	106	40.400	17.475	4.301	1.00	0.00
ATOM	1075	1HH1	ARG	A	106	43.791	16.689	4.492	1.00	0.00
ATOM	1076	2HH1	ARG	A	106	43.407	15.212	5.353	1.00	0.00
ATOM	1077	1HH2	ARG	A	106	39.942	15.783	5.279	1.00	0.00
ATOM	1078	2HH2	ARG	A	106	41.212	14.693	5.801	1.00	0.00
ATOM	1079	N	ALA	A	107	40.091	23.326	5.961	1.00	0.00
ATOM	1080	CA	ALA	A	107	39.349	23.918	7.069	1.00	0.00
ATOM	1081	C	ALA	A	107	38.432	25.023	6.545	1.00	0.00
ATOM	1082	O	ALA	A	107	37.505	25.459	7.223	1.00	0.00
ATOM	1083	CB	ALA	A	107	40.307	24.503	8.109	1.00	0.00
ATOM	1084	H	ALA	A	107	41.046	23.612	5.800	1.00	0.00
ATOM	1085	HA	ALA	A	107	38.727	23.147	7.525	1.00	0.00
ATOM	1086	1HB	ALA	A	107	39.733	24.939	8.926	1.00	0.00
ATOM	1087	2HB	ALA	A	107	40.949	23.713	8.498	1.00	0.00
ATOM	1088	3HB	ALA	A	107	40.920	25.274	7.645	1.00	0.00
ATOM	1089	N	LEU	A	108	38.699	25.465	5.325	1.00	0.00
ATOM	1090	CA	LEU	A	108	37.911	26.513	4.703	1.00	0.00
ATOM	1091	C	LEU	A	108	36.908	25.948	3.711	1.00	0.00
ATOM	1092	O	LEU	A	108	36.189	26.707	3.063	1.00	0.00
ATOM	1093	CB	LEU	A	108	38.834	27.523	4.009	1.00	0.00
ATOM	1094	CG	LEU	A	108	39.812	28.257	4.936	1.00	0.00
ATOM	1095	CD1	LEU	A	108	40.737	29.148	4.118	1.00	0.00
ATOM	1096	CD2	LEU	A	108	39.032	29.078	5.951	1.00	0.00
ATOM	1097	H	LEU	A	108	39.472	25.062	4.815	1.00	0.00
ATOM	1098	HA	LEU	A	108	37.327	27.030	5.463	1.00	0.00
ATOM	1099	1HB	LEU	A	108	39.378	26.844	3.354	1.00	0.00
ATOM	1100	2HB	LEU	A	108	38.272	28.236	3.407	1.00	0.00
ATOM	1101	HG	LEU	A	108	40.373	27.498	5.481	1.00	0.00
ATOM	1102	1HD1	LEU	A	108	41.428	29.665	4.784	1.00	0.00
ATOM	1103	2HD1	LEU	A	108	41.302	28.537	3.414	1.00	0.00
ATOM	1104	3HD1	LEU	A	108	40.145	29.880	3.570	1.00	0.00
ATOM	1105	1HD2	LEU	A	108	39.728	29.598	6.610	1.00	0.00
ATOM	1106	2HD2	LEU	A	108	38.410	29.806	5.431	1.00	0.00
ATOM	1107	3HD2	LEU	A	108	38.398	28.418	6.544	1.00	0.00
ATOM	1108	N	TYR	A	109	36.865	24.618	3.607	1.00	0.00
ATOM	1109	CA	TYR	A	109	35.949	23.905	2.703	1.00	0.00
ATOM	1110	C	TYR	A	109	36.218	24.136	1.223	1.00	0.00
ATOM	1111	O	TYR	A	109	35.354	23.923	0.376	1.00	0.00
ATOM	1112	CB	TYR	A	109	34.522	24.011	3.257	1.00	0.00
ATOM	1113	CG	TYR	A	109	34.626	23.556	4.704	1.00	0.00
ATOM	1114	CD1	TYR	A	109	35.123	22.287	4.986	1.00	0.00
ATOM	1115	CD2	TYR	A	109	34.282	24.399	5.759	1.00	0.00
ATOM	1116	CE1	TYR	A	109	35.341	21.889	6.302	1.00	0.00
ATOM	1117	CE2	TYR	A	109	34.493	23.996	7.078	1.00	0.00
ATOM	1118	CZ	TYR	A	109	35.046	22.747	7.356	1.00	0.00
ATOM	1119	OH	TYR	A	109	35.308	22.348	8.662	1.00	0.00
ATOM	1120	H	TYR	A	109	37.500	24.085	4.185	1.00	0.00
ATOM	1121	HA	TYR	A	109	36.059	22.829	2.838	1.00	0.00
ATOM	1122	1HB	TYR	A	109	34.209	25.050	3.146	1.00	0.00
ATOM	1123	2HB	TYR	A	109	33.889	23.373	2.641	1.00	0.00
ATOM	1124	HD1	TYR	A	109	35.337	21.610	4.159	1.00	0.00
ATOM	1125	HD2	TYR	A	109	33.847	25.373	5.534	1.00	0.00
ATOM	1126	HE1	TYR	A	109	35.730	20.895	6.519	1.00	0.00
ATOM	1127	HE2	TYR	A	109	34.224	24.659	7.900	1.00	0.00
ATOM	1128	HH	TYR	A	109	35.070	23.013	9.313	1.00	0.00
ATOM	1129	N	TYR	A	110	37.430	24.571	0.923	1.00	0.00
ATOM	1130	CA	TYR	A	110	37.824	24.826	-0.445	1.00	0.00

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ATOM	1131	C	TYR	A	110	37.948	23.525	-1.234	1.00	0.00
ATOM	1132	O	TYR	A	110	37.736	23.506	-2.448	1.00	0.00
ATOM	1133	CB	TYR	A	110	39.146	25.597	-0.481	1.00	0.00
ATOM	1134	CG	TYR	A	110	39.041	27.017	0.030	1.00	0.00
ATOM	1135	CD1	TYR	A	110	37.806	27.628	0.189	1.00	0.00
ATOM	1136	CD2	TYR	A	110	40.179	27.741	0.354	1.00	0.00
ATOM	1137	CE1	TYR	A	110	37.705	28.925	0.654	1.00	0.00
ATOM	1138	CE2	TYR	A	110	40.090	29.038	0.821	1.00	0.00
ATOM	1139	CZ	TYR	A	110	38.851	29.627	0.970	1.00	0.00
ATOM	1140	OH	TYR	A	110	38.757	30.918	1.436	1.00	0.00
ATOM	1141	H	TYR	A	110	38.097	24.729	1.665	1.00	0.00
ATOM	1142	HA	TYR	A	110	37.059	25.420	-0.946	1.00	0.00
ATOM	1143	1HB	TYR	A	110	39.859	25.042	0.130	1.00	0.00
ATOM	1144	2HB	TYR	A	110	39.484	25.607	-1.516	1.00	0.00
ATOM	1145	HD1	TYR	A	110	36.906	27.067	-0.063	1.00	0.00
ATOM	1146	HD2	TYR	A	110	41.154	27.271	0.233	1.00	0.00
ATOM	1147	HE1	TYR	A	110	36.728	29.393	0.774	1.00	0.00
ATOM	1148	HE2	TYR	A	110	40.996	29.591	1.069	1.00	0.00
ATOM	1149	HH	TYR	A	110	39.574	31.413	1.337	1.00	0.00
ATOM	1150	N	ASP	A	111	38.304	22.441	-0.548	1.00	0.00
ATOM	1151	CA	ASP	A	111	38.461	21.154	-1.217	1.00	0.00
ATOM	1152	C	ASP	A	111	37.141	20.587	-1.753	1.00	0.00
ATOM	1153	O	ASP	A	111	37.101	19.496	-2.321	1.00	0.00
ATOM	1154	CB	ASP	A	111	39.105	20.147	-0.260	1.00	0.00
ATOM	1155	CG	ASP	A	111	38.243	19.780	0.940	1.00	0.00
ATOM	1156	OD1	ASP	A	111	37.259	20.445	1.166	1.00	0.00
ATOM	1157	OD2	ASP	A	111	38.482	18.751	1.525	1.00	0.00
ATOM	1158	H	ASP	A	111	38.469	22.502	0.447	1.00	0.00
ATOM	1159	HA	ASP	A	111	39.100	21.269	-2.093	1.00	0.00
ATOM	1160	1HB	ASP	A	111	39.447	19.237	-0.753	1.00	0.00
ATOM	1161	2HB	ASP	A	111	39.966	20.726	0.075	1.00	0.00
ATOM	1162	N	LEU	A	112	36.063	21.342	-1.579	1.00	0.00
ATOM	1163	CA	LEU	A	112	34.756	20.922	-2.058	1.00	0.00
ATOM	1164	C	LEU	A	112	34.270	21.904	-3.110	1.00	0.00
ATOM	1165	O	LEU	A	112	33.089	21.928	-3.452	1.00	0.00
ATOM	1166	CB	LEU	A	112	33.757	20.825	-0.898	1.00	0.00
ATOM	1167	CG	LEU	A	112	34.104	19.788	0.178	1.00	0.00
ATOM	1168	CD1	LEU	A	112	33.124	19.892	1.338	1.00	0.00
ATOM	1169	CD2	LEU	A	112	34.074	18.394	-0.430	1.00	0.00
ATOM	1170	H	LEU	A	112	36.151	22.229	-1.103	1.00	0.00
ATOM	1171	HA	LEU	A	112	34.837	19.944	-2.530	1.00	0.00
ATOM	1172	1HB	LEU	A	112	33.856	21.831	-0.494	1.00	0.00
ATOM	1173	2HB	LEU	A	112	32.738	20.676	-1.255	1.00	0.00
ATOM	1174	HG	LEU	A	112	35.126	19.989	0.503	1.00	0.00
ATOM	1175	1HD1	LEU	A	112	33.379	19.153	2.098	1.00	0.00
ATOM	1176	2HD1	LEU	A	112	33.179	20.890	1.773	1.00	0.00
ATOM	1177	3HD1	LEU	A	112	32.113	19.708	0.978	1.00	0.00
ATOM	1178	1HD2	LEU	A	112	34.322	17.658	0.336	1.00	0.00
ATOM	1179	2HD2	LEU	A	112	33.078	18.189	-0.823	1.00	0.00
ATOM	1180	3HD2	LEU	A	112	34.802	18.334	-1.239	1.00	0.00
ATOM	1181	N	ILE	A	113	35.194	22.715	-3.615	1.00	0.00
ATOM	1182	CA	ILE	A	113	34.893	23.700	-4.649	1.00	0.00
ATOM	1183	C	ILE	A	113	35.724	23.337	-5.882	1.00	0.00
ATOM	1184	O	ILE	A	113	36.950	23.491	-5.885	1.00	0.00
ATOM	1185	CB	ILE	A	113	35.207	25.139	-4.202	1.00	0.00
ATOM	1186	CG1	ILE	A	113	34.391	25.502	-2.958	1.00	0.00
ATOM	1187	CG2	ILE	A	113	34.929	26.120	-5.331	1.00	0.00
ATOM	1188	CD1	ILE	A	113	34.773	26.830	-2.344	1.00	0.00
ATOM	1189	H	ILE	A	113	36.139	22.642	-3.265	1.00	0.00
ATOM	1190	HA	ILE	A	113	33.845	23.642	-4.941	1.00	0.00
ATOM	1191	HB	ILE	A	113	36.257	25.202	-3.917	1.00	0.00
ATOM	1192	1HG1	ILE	A	113	33.343	25.527	-3.254	1.00	0.00
ATOM	1193	2HG1	ILE	A	113	34.543	24.707	-2.228	1.00	0.00

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ATOM	1194	1HG2	ILE	A	113	35.155	27.132	-4.997	1.00	0.00
ATOM	1195	2HG2	ILE	A	113	35.551	25.873	-6.189	1.00	0.00
ATOM	1196	3HG2	ILE	A	113	33.878	26.059	-5.615	1.00	0.00
ATOM	1197	1HD1	ILE	A	113	34.152	27.018	-1.467	1.00	0.00
ATOM	1198	2HD1	ILE	A	113	35.822	26.806	-2.046	1.00	0.00
ATOM	1199	3HD1	ILE	A	113	34.621	27.626	-3.072	1.00	0.00
ATOM	1200	N	SER	A	114	35.070	22.843	-6.925	1.00	0.00
ATOM	1201	CA	SER	A	114	35.789	22.468	-8.135	1.00	0.00
ATOM	1202	C	SER	A	114	35.930	23.672	-9.069	1.00	0.00
ATOM	1203	O	SER	A	114	35.434	23.666	-10.196	1.00	0.00
ATOM	1204	CB	SER	A	114	35.077	21.327	-8.835	1.00	0.00
ATOM	1205	OG	SER	A	114	33.735	21.629	-9.102	1.00	0.00
ATOM	1206	H	SER	A	114	34.068	22.722	-6.891	1.00	0.00
ATOM	1207	HA	SER	A	114	36.766	22.024	-7.938	1.00	0.00
ATOM	1208	1HB	SER	A	114	35.588	21.123	-9.776	1.00	0.00
ATOM	1209	2HB	SER	A	114	35.123	20.444	-8.200	1.00	0.00
ATOM	1210	HG	SER	A	114	33.321	20.883	-9.544	1.00	0.00
ATOM	1211	N	SER	A	115	36.622	24.703	-8.592	1.00	0.00
ATOM	1212	CA	SER	A	115	36.816	25.921	-9.375	1.00	0.00
ATOM	1213	C	SER	A	115	38.125	26.622	-9.024	1.00	0.00
ATOM	1214	O	SER	A	115	38.480	26.746	-7.856	1.00	0.00
ATOM	1215	CB	SER	A	115	35.646	26.862	-9.165	1.00	0.00
ATOM	1216	OG	SER	A	115	35.801	28.062	-9.873	1.00	0.00
ATOM	1217	H	SER	A	115	37.023	24.644	-7.667	1.00	0.00
ATOM	1218	HA	SER	A	115	36.772	25.755	-10.452	1.00	0.00
ATOM	1219	1HB	SER	A	115	34.736	26.367	-9.503	1.00	0.00
ATOM	1220	2HB	SER	A	115	35.563	27.085	-8.103	1.00	0.00
ATOM	1221	HG	SER	A	115	36.600	28.506	-9.577	1.00	0.00
ATOM	1222	N	PRO	A	116	38.858	27.092	-10.043	1.00	0.00
ATOM	1223	CA	PRO	A	116	40.138	27.786	-9.872	1.00	0.00
ATOM	1224	C	PRO	A	116	39.949	29.209	-9.371	1.00	0.00
ATOM	1225	O	PRO	A	116	38.880	29.568	-8.867	1.00	0.00
ATOM	1226	CB	PRO	A	116	40.770	27.753	-11.267	1.00	0.00
ATOM	1227	CG	PRO	A	116	39.609	27.772	-12.202	1.00	0.00
ATOM	1228	CD	PRO	A	116	38.522	26.999	-11.504	1.00	0.00
ATOM	1229	HA	PRO	A	116	40.782	27.311	-9.118	1.00	0.00
ATOM	1230	1HB	PRO	A	116	41.429	28.618	-11.432	1.00	0.00
ATOM	1231	2HB	PRO	A	116	41.382	26.850	-11.411	1.00	0.00
ATOM	1232	1HG	PRO	A	116	39.288	28.802	-12.415	1.00	0.00
ATOM	1233	2HG	PRO	A	116	39.867	27.309	-13.166	1.00	0.00
ATOM	1234	1HD	PRO	A	116	37.526	27.430	-11.681	1.00	0.00
ATOM	1235	2HD	PRO	A	116	38.481	25.950	-11.832	1.00	0.00
ATOM	1236	N	ASP	A	117	40.995	30.014	-9.542	1.00	0.00
ATOM	1237	CA	ASP	A	117	41.000	31.405	-9.107	1.00	0.00
ATOM	1238	C	ASP	A	117	40.127	31.547	-7.865	1.00	0.00
ATOM	1239	O	ASP	A	117	39.188	32.348	-7.843	1.00	0.00
ATOM	1240	CB	ASP	A	117	40.506	32.331	-10.221	1.00	0.00
ATOM	1241	CG	ASP	A	117	41.397	32.360	-11.456	1.00	0.00
ATOM	1242	OD1	ASP	A	117	42.578	32.567	-11.308	1.00	0.00
ATOM	1243	OD2	ASP	A	117	40.922	32.021	-12.514	1.00	0.00
ATOM	1244	H	ASP	A	117	41.816	29.637	-9.993	1.00	0.00
ATOM	1245	HA	ASP	A	117	42.013	31.704	-8.836	1.00	0.00
ATOM	1246	1HB	ASP	A	117	39.476	32.138	-10.521	1.00	0.00
ATOM	1247	2HB	ASP	A	117	40.563	33.293	-9.710	1.00	0.00
ATOM	1248	N	ILE	A	118	40.426	30.748	-6.841	1.00	0.00
ATOM	1249	CA	ILE	A	118	39.664	30.799	-5.599	1.00	0.00
ATOM	1250	C	ILE	A	118	39.950	32.143	-4.916	1.00	0.00
ATOM	1251	O	ILE	A	118	39.120	32.675	-4.181	1.00	0.00
ATOM	1252	CB	ILE	A	118	40.018	29.639	-4.650	1.00	0.00
ATOM	1253	CG1	ILE	A	118	38.861	29.365	-3.687	1.00	0.00
ATOM	1254	CG2	ILE	A	118	41.293	29.952	-3.881	1.00	0.00
ATOM	1255	CD1	ILE	A	118	37.604	28.873	-4.367	1.00	0.00
ATOM	1256	H	ILE	A	118	41.192	30.095	-6.922	1.00	0.00

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ATOM	1257	HA	ILE	A	118	38.594	30.777	-5.804	1.00	0.00
ATOM	1258	HB	ILE	A	118	40.161	28.732	-5.236	1.00	0.00
ATOM	1259	1HG1	ILE	A	118	39.204	28.618	-2.972	1.00	0.00
ATOM	1260	2HG1	ILE	A	118	38.648	30.297	-3.162	1.00	0.00
ATOM	1261	1HG2	ILE	A	118	41.529	29.122	-3.215	1.00	0.00
ATOM	1262	2HG2	ILE	A	118	42.114	30.099	-4.582	1.00	0.00
ATOM	1263	3HG2	ILE	A	118	41.151	30.859	-3.294	1.00	0.00
ATOM	1264	1HD1	ILE	A	118	36.828	28.701	-3.620	1.00	0.00
ATOM	1265	2HD1	ILE	A	118	37.259	29.621	-5.082	1.00	0.00
ATOM	1266	3HD1	ILE	A	118	37.814	27.941	-4.891	1.00	0.00
ATOM	1267	N	HIS	A	119	41.126	32.697	-5.193	1.00	0.00
ATOM	1268	CA	HIS	A	119	41.539	33.972	-4.629	1.00	0.00
ATOM	1269	C	HIS	A	119	40.981	35.125	-5.450	1.00	0.00
ATOM	1270	O	HIS	A	119	40.781	36.227	-4.937	1.00	0.00
ATOM	1271	CB	HIS	A	119	43.055	34.024	-4.450	1.00	0.00
ATOM	1272	CG	HIS	A	119	43.506	32.862	-3.591	1.00	0.00
ATOM	1273	ND1	HIS	A	119	43.151	32.682	-2.304	1.00	0.00
ATOM	1274	CD2	HIS	A	119	44.329	31.801	-3.974	1.00	0.00
ATOM	1275	CE1	HIS	A	119	43.740	31.520	-1.874	1.00	0.00
ATOM	1276	NE2	HIS	A	119	44.462	30.985	-2.905	1.00	0.00
ATOM	1277	H	HIS	A	119	41.752	32.210	-5.819	1.00	0.00
ATOM	1278	HA	HIS	A	119	41.135	34.075	-3.622	1.00	0.00
ATOM	1279	1HB	HIS	A	119	43.551	33.955	-5.419	1.00	0.00
ATOM	1280	2HB	HIS	A	119	43.343	34.954	-3.960	1.00	0.00
ATOM	1281	HD2	HIS	A	119	44.829	31.558	-4.912	1.00	0.00
ATOM	1282	HE1	HIS	A	119	43.592	31.167	-0.854	1.00	0.00
ATOM	1283	HE2	HIS	A	119	44.999	30.130	-2.872	1.00	0.00
ATOM	1284	N	GLY	A	120	40.735	34.866	-6.730	1.00	0.00
ATOM	1285	CA	GLY	A	120	40.188	35.892	-7.601	1.00	0.00
ATOM	1286	C	GLY	A	120	38.759	36.145	-7.180	1.00	0.00
ATOM	1287	O	GLY	A	120	38.280	37.285	-7.168	1.00	0.00
ATOM	1288	H	GLY	A	120	40.927	33.950	-7.109	1.00	0.00
ATOM	1289	1HA	GLY	A	120	40.785	36.799	-7.501	1.00	0.00
ATOM	1290	2HA	GLY	A	120	40.229	35.543	-8.632	1.00	0.00
ATOM	1291	N	THR	A	121	38.084	35.058	-6.821	1.00	0.00
ATOM	1292	CA	THR	A	121	36.700	35.104	-6.373	1.00	0.00
ATOM	1293	C	THR	A	121	36.611	35.797	-5.009	1.00	0.00
ATOM	1294	O	THR	A	121	35.715	36.609	-4.767	1.00	0.00
ATOM	1295	CB	THR	A	121	36.087	33.695	-6.275	1.00	0.00
ATOM	1296	OG1	THR	A	121	36.087	33.080	-7.570	1.00	0.00
ATOM	1297	CG2	THR	A	121	34.660	33.769	-5.754	1.00	0.00
ATOM	1298	H	THR	A	121	38.558	34.167	-6.864	1.00	0.00
ATOM	1299	HA	THR	A	121	36.106	35.694	-7.071	1.00	0.00
ATOM	1300	HB	THR	A	121	36.689	33.092	-5.596	1.00	0.00
ATOM	1301	HG1	THR	A	121	36.962	32.731	-7.758	1.00	0.00
ATOM	1302	1HG2	THR	A	121	34.243	32.764	-5.692	1.00	0.00
ATOM	1303	2HG2	THR	A	121	34.657	34.226	-4.765	1.00	0.00
ATOM	1304	3HG2	THR	A	121	34.056	34.371	-6.433	1.00	0.00
ATOM	1305	N	TYR	A	122	37.551	35.474	-4.125	1.00	0.00
ATOM	1306	CA	TYR	A	122	37.576	36.051	-2.793	1.00	0.00
ATOM	1307	C	TYR	A	122	37.631	37.580	-2.857	1.00	0.00
ATOM	1308	O	TYR	A	122	37.030	38.281	-2.036	1.00	0.00
ATOM	1309	CB	TYR	A	122	38.801	35.518	-2.051	1.00	0.00
ATOM	1310	CG	TYR	A	122	38.498	35.315	-0.588	1.00	0.00
ATOM	1311	CD1	TYR	A	122	38.434	36.393	0.285	1.00	0.00
ATOM	1312	CD2	TYR	A	122	38.289	34.028	-0.115	1.00	0.00
ATOM	1313	CE1	TYR	A	122	38.181	36.179	1.635	1.00	0.00
ATOM	1314	CE2	TYR	A	122	38.034	33.817	1.232	1.00	0.00
ATOM	1315	CZ	TYR	A	122	37.994	34.888	2.111	1.00	0.00
ATOM	1316	OH	TYR	A	122	37.776	34.655	3.455	1.00	0.00
ATOM	1317	H	TYR	A	122	38.266	34.810	-4.387	1.00	0.00
ATOM	1318	HA	TYR	A	122	36.659	35.795	-2.262	1.00	0.00
ATOM	1319	1HB	TYR	A	122	39.081	34.576	-2.525	1.00	0.00

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ATOM	1320	2HB	TYR	A	122	39.601	36.245	-2.186	1.00	0.00
ATOM	1321	HD1	TYR	A	122	38.586	37.398	-0.108	1.00	0.00
ATOM	1322	HD2	TYR	A	122	38.330	33.196	-0.818	1.00	0.00
ATOM	1323	HE1	TYR	A	122	38.130	37.020	2.326	1.00	0.00
ATOM	1324	HE2	TYR	A	122	37.865	32.806	1.603	1.00	0.00
ATOM	1325	HH	TYR	A	122	37.667	33.724	3.662	1.00	0.00
ATOM	1326	N	LYS	A	123	38.362	38.089	-3.841	1.00	0.00
ATOM	1327	CA	LYS	A	123	38.501	39.522	-4.037	1.00	0.00
ATOM	1328	C	LYS	A	123	37.097	40.068	-4.245	1.00	0.00
ATOM	1329	O	LYS	A	123	36.699	41.060	-3.636	1.00	0.00
ATOM	1330	CB	LYS	A	123	39.406	39.847	-5.226	1.00	0.00
ATOM	1331	CG	LYS	A	123	39.627	41.336	-5.460	1.00	0.00
ATOM	1332	CD	LYS	A	123	40.592	41.578	-6.611	1.00	0.00
ATOM	1333	CE	LYS	A	123	40.780	43.065	-6.873	1.00	0.00
ATOM	1334	NZ	LYS	A	123	41.710	43.317	-8.007	1.00	0.00
ATOM	1335	H	LYS	A	123	38.835	37.458	-4.472	1.00	0.00
ATOM	1336	HA	LYS	A	123	38.939	39.975	-3.147	1.00	0.00
ATOM	1337	1HB	LYS	A	123	40.365	39.364	-5.039	1.00	0.00
ATOM	1338	2HB	LYS	A	123	38.944	39.407	-6.110	1.00	0.00
ATOM	1339	1HG	LYS	A	123	38.665	41.797	-5.689	1.00	0.00
ATOM	1340	2HG	LYS	A	123	40.031	41.774	-4.548	1.00	0.00
ATOM	1341	1HD	LYS	A	123	41.553	41.129	-6.358	1.00	0.00
ATOM	1342	2HD	LYS	A	123	40.193	41.100	-7.505	1.00	0.00
ATOM	1343	1HE	LYS	A	123	39.807	43.498	-7.098	1.00	0.00
ATOM	1344	2HE	LYS	A	123	41.180	43.523	-5.968	1.00	0.00
ATOM	1345	1HZ	LYS	A	123	41.807	44.313	-8.147	1.00	0.00
ATOM	1346	2HZ	LYS	A	123	42.614	42.917	-7.798	1.00	0.00
ATOM	1347	3HZ	LYS	A	123	41.340	42.894	-8.846	1.00	0.00
ATOM	1348	N	GLU	A	124	36.346	39.387	-5.100	1.00	0.00
ATOM	1349	CA	GLU	A	124	34.976	39.760	-5.415	1.00	0.00
ATOM	1350	C	GLU	A	124	34.099	39.745	-4.171	1.00	0.00
ATOM	1351	O	GLU	A	124	33.523	40.764	-3.800	1.00	0.00
ATOM	1352	CB	GLU	A	124	34.398	38.822	-6.478	1.00	0.00
ATOM	1353	CG	GLU	A	124	34.881	39.103	-7.893	1.00	0.00
ATOM	1354	CD	GLU	A	124	34.458	40.471	-8.353	1.00	0.00
ATOM	1355	OE1	GLU	A	124	33.290	40.767	-8.279	1.00	0.00
ATOM	1356	OE2	GLU	A	124	35.316	41.259	-8.674	1.00	0.00
ATOM	1357	H	GLU	A	124	36.750	38.576	-5.547	1.00	0.00
ATOM	1358	HA	GLU	A	124	34.950	40.780	-5.799	1.00	0.00
ATOM	1359	1HB	GLU	A	124	34.679	37.808	-6.194	1.00	0.00
ATOM	1360	2HB	GLU	A	124	33.314	38.925	-6.437	1.00	0.00
ATOM	1361	1HG	GLU	A	124	35.959	38.998	-8.013	1.00	0.00
ATOM	1362	2HG	GLU	A	124	34.374	38.347	-8.492	1.00	0.00
ATOM	1363	N	LEU	A	125	34.004	38.581	-3.532	1.00	0.00
ATOM	1364	CA	LEU	A	125	33.202	38.411	-2.319	1.00	0.00
ATOM	1365	C	LEU	A	125	33.407	39.589	-1.371	1.00	0.00
ATOM	1366	O	LEU	A	125	32.442	40.179	-0.885	1.00	0.00
ATOM	1367	CB	LEU	A	125	33.559	37.093	-1.621	1.00	0.00
ATOM	1368	CG	LEU	A	125	32.751	36.785	-0.354	1.00	0.00
ATOM	1369	CD1	LEU	A	125	31.275	36.641	-0.698	1.00	0.00
ATOM	1370	CD2	LEU	A	125	33.282	35.514	0.292	1.00	0.00
ATOM	1371	H	LEU	A	125	34.507	37.788	-3.904	1.00	0.00
ATOM	1372	HA	LEU	A	125	32.144	38.395	-2.580	1.00	0.00
ATOM	1373	1HB	LEU	A	125	33.291	36.395	-2.413	1.00	0.00
ATOM	1374	2HB	LEU	A	125	34.627	37.019	-1.418	1.00	0.00
ATOM	1375	HG	LEU	A	125	32.917	37.607	0.343	1.00	0.00
ATOM	1376	1HD1	LEU	A	125	30.709	36.423	0.208	1.00	0.00
ATOM	1377	2HD1	LEU	A	125	30.911	37.570	-1.137	1.00	0.00
ATOM	1378	3HD1	LEU	A	125	31.146	35.827	-1.410	1.00	0.00
ATOM	1379	1HD2	LEU	A	125	32.707	35.297	1.193	1.00	0.00
ATOM	1380	2HD2	LEU	A	125	33.187	34.683	-0.408	1.00	0.00
ATOM	1381	3HD2	LEU	A	125	34.331	35.649	0.555	1.00	0.00
ATOM	1382	N	LEU	A	126	34.668	39.919	-1.105	1.00	0.00

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ATOM	1383	CA	LEU	A	126	34.991	41.028	-0.215	1.00	0.00
ATOM	1384	C	LEU	A	126	34.435	42.341	-0.744	1.00	0.00
ATOM	1385	O	LEU	A	126	33.816	43.107	0.000	1.00	0.00
ATOM	1386	CB	LEU	A	126	36.510	41.131	-0.026	1.00	0.00
ATOM	1387	CG	LEU	A	126	37.144	39.998	0.791	1.00	0.00
ATOM	1388	CD1	LEU	A	126	38.662	40.109	0.747	1.00	0.00
ATOM	1389	CD2	LEU	A	126	36.640	40.061	2.225	1.00	0.00
ATOM	1390	H	LEU	A	126	35.419	39.392	-1.527	1.00	0.00
ATOM	1391	HA	LEU	A	126	34.524	40.865	0.756	1.00	0.00
ATOM	1392	1HB	LEU	A	126	36.823	41.062	-1.066	1.00	0.00
ATOM	1393	2HB	LEU	A	126	36.801	42.101	0.378	1.00	0.00
ATOM	1394	HG	LEU	A	126	36.803	39.057	0.359	1.00	0.00
ATOM	1395	1HD1	LEU	A	126	39.104	39.301	1.329	1.00	0.00
ATOM	1396	2HD1	LEU	A	126	39.002	40.039	-0.286	1.00	0.00
ATOM	1397	3HD1	LEU	A	126	38.969	41.067	1.166	1.00	0.00
ATOM	1398	1HD2	LEU	A	126	37.091	39.255	2.804	1.00	0.00
ATOM	1399	2HD2	LEU	A	126	36.912	41.021	2.665	1.00	0.00
ATOM	1400	3HD2	LEU	A	126	35.556	39.952	2.236	1.00	0.00
ATOM	1401	N	ASP	A	127	34.653	42.602	-2.028	1.00	0.00
ATOM	1402	CA	ASP	A	127	34.144	43.827	-2.638	1.00	0.00
ATOM	1403	C	ASP	A	127	32.640	43.956	-2.406	1.00	0.00
ATOM	1404	O	ASP	A	127	32.130	45.049	-2.142	1.00	0.00
ATOM	1405	CB	ASP	A	127	34.454	43.854	-4.137	1.00	0.00
ATOM	1406	CG	ASP	A	127	35.919	44.097	-4.472	1.00	0.00
ATOM	1407	OD1	ASP	A	127	36.657	44.464	-3.588	1.00	0.00
ATOM	1408	OD2	ASP	A	127	36.321	43.767	-5.562	1.00	0.00
ATOM	1409	H	ASP	A	127	35.176	41.950	-2.595	1.00	0.00
ATOM	1410	HA	ASP	A	127	34.613	44.694	-2.172	1.00	0.00
ATOM	1411	1HB	ASP	A	127	34.102	42.970	-4.669	1.00	0.00
ATOM	1412	2HB	ASP	A	127	33.864	44.720	-4.439	1.00	0.00
ATOM	1413	N	THR	A	128	31.939	42.828	-2.490	1.00	0.00
ATOM	1414	CA	THR	A	128	30.491	42.790	-2.308	1.00	0.00
ATOM	1415	C	THR	A	128	29.980	43.059	-0.892	1.00	0.00
ATOM	1416	O	THR	A	128	29.123	43.922	-0.707	1.00	0.00
ATOM	1417	CB	THR	A	128	29.939	41.424	-2.757	1.00	0.00
ATOM	1418	OG1	THR	A	128	30.204	41.235	-4.153	1.00	0.00
ATOM	1419	CG2	THR	A	128	28.439	41.349	-2.515	1.00	0.00
ATOM	1420	H	THR	A	128	32.433	41.969	-2.687	1.00	0.00
ATOM	1421	HA	THR	A	128	30.024	43.581	-2.895	1.00	0.00
ATOM	1422	HB	THR	A	128	30.437	40.637	-2.192	1.00	0.00
ATOM	1423	HG1	THR	A	128	31.114	40.951	-4.270	1.00	0.00
ATOM	1424	1HG2	THR	A	128	28.068	40.377	-2.838	1.00	0.00
ATOM	1425	2HG2	THR	A	128	28.236	41.482	-1.452	1.00	0.00
ATOM	1426	3HG2	THR	A	128	27.941	42.135	-3.081	1.00	0.00
ATOM	1427	N	VAL	A	129	30.489	42.328	0.102	1.00	0.00
ATOM	1428	CA	VAL	A	129	30.001	42.496	1.473	1.00	0.00
ATOM	1429	C	VAL	A	129	30.544	43.689	2.240	1.00	0.00
ATOM	1430	O	VAL	A	129	29.995	44.054	3.280	1.00	0.00
ATOM	1431	CB	VAL	A	129	30.202	41.200	2.257	1.00	0.00
ATOM	1432	CG1	VAL	A	129	29.451	40.053	1.577	1.00	0.00
ATOM	1433	CG2	VAL	A	129	31.687	40.885	2.444	1.00	0.00
ATOM	1434	H	VAL	A	129	31.216	41.652	-0.082	1.00	0.00
ATOM	1435	HA	VAL	A	129	28.928	42.693	1.491	1.00	0.00
ATOM	1436	HB	VAL	A	129	29.784	41.322	3.256	1.00	0.00
ATOM	1437	1HG1	VAL	A	129	29.600	39.134	2.144	1.00	0.00
ATOM	1438	2HG1	VAL	A	129	28.387	40.286	1.539	1.00	0.00
ATOM	1439	3HG1	VAL	A	129	29.831	39.920	0.564	1.00	0.00
ATOM	1440	1HG2	VAL	A	129	31.795	39.958	3.006	1.00	0.00
ATOM	1441	2HG2	VAL	A	129	32.161	40.776	1.468	1.00	0.00
ATOM	1442	3HG2	VAL	A	129	32.165	41.698	2.991	1.00	0.00
ATOM	1443	N	THR	A	130	31.607	44.309	1.748	1.00	0.00
ATOM	1444	CA	THR	A	130	32.140	45.457	2.466	1.00	0.00
ATOM	1445	C	THR	A	130	31.673	46.780	1.861	1.00	0.00

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ATOM	1446	O	THR	A	130	31.971	47.848	2.401	1.00	0.00
ATOM	1447	CB	THR	A	130	33.655	45.343	2.678	1.00	0.00
ATOM	1448	OG1	THR	A	130	34.363	45.314	1.441	1.00	0.00
ATOM	1449	CG2	THR	A	130	34.004	44.120	3.529	1.00	0.00
ATOM	1450	H	THR	A	130	32.056	44.011	0.894	1.00	0.00
ATOM	1451	HA	THR	A	130	31.772	45.453	3.492	1.00	0.00
ATOM	1452	HB	THR	A	130	34.011	46.241	3.182	1.00	0.00
ATOM	1453	HG1	THR	A	130	33.738	45.373	0.714	1.00	0.00
ATOM	1454	1HG2	THR	A	130	35.084	44.067	3.662	1.00	0.00
ATOM	1455	2HG2	THR	A	130	33.521	44.205	4.502	1.00	0.00
ATOM	1456	3HG2	THR	A	130	33.655	43.218	3.028	1.00	0.00
ATOM	1457	N	ALA	A	131	30.930	46.706	0.754	1.00	0.00
ATOM	1458	CA	ALA	A	131	30.408	47.898	0.079	1.00	0.00
ATOM	1459	C	ALA	A	131	29.688	48.802	1.075	1.00	0.00
ATOM	1460	O	ALA	A	131	29.088	48.325	2.035	1.00	0.00
ATOM	1461	CB	ALA	A	131	29.422	47.454	-1.010	1.00	0.00
ATOM	1462	H	ALA	A	131	30.723	45.794	0.372	1.00	0.00
ATOM	1463	HA	ALA	A	131	31.245	48.459	-0.337	1.00	0.00
ATOM	1464	1HB	ALA	A	131	29.026	48.332	-1.521	1.00	0.00
ATOM	1465	2HB	ALA	A	131	29.937	46.817	-1.730	1.00	0.00
ATOM	1466	3HB	ALA	A	131	28.603	46.899	-0.555	1.00	0.00
ATOM	1467	N	PRO	A	132	29.721	50.123	0.847	1.00	0.00
ATOM	1468	CA	PRO	A	132	29.084	51.118	1.721	1.00	0.00
ATOM	1469	C	PRO	A	132	27.620	50.847	2.072	1.00	0.00
ATOM	1470	O	PRO	A	132	27.206	51.073	3.211	1.00	0.00
ATOM	1471	CB	PRO	A	132	29.280	52.429	0.955	1.00	0.00
ATOM	1472	CG	PRO	A	132	30.560	52.216	0.152	1.00	0.00
ATOM	1473	CD	PRO	A	132	30.449	50.752	-0.252	1.00	0.00
ATOM	1474	HA	PRO	A	132	29.555	51.176	2.713	1.00	0.00
ATOM	1475	1HB	PRO	A	132	28.427	52.641	0.294	1.00	0.00
ATOM	1476	2HB	PRO	A	132	29.378	53.285	1.639	1.00	0.00
ATOM	1477	1HG	PRO	A	132	30.603	52.892	-0.715	1.00	0.00
ATOM	1478	2HG	PRO	A	132	31.451	52.420	0.763	1.00	0.00
ATOM	1479	1HD	PRO	A	132	29.904	50.622	-1.199	1.00	0.00
ATOM	1480	2HD	PRO	A	132	31.434	50.280	-0.381	1.00	0.00
ATOM	1481	N	GLN	A	133	26.840	50.381	1.094	1.00	0.00
ATOM	1482	CA	GLN	A	133	25.421	50.096	1.314	1.00	0.00
ATOM	1483	C	GLN	A	133	25.224	49.142	2.492	1.00	0.00
ATOM	1484	O	GLN	A	133	24.238	49.248	3.226	1.00	0.00
ATOM	1485	CB	GLN	A	133	24.793	49.496	0.053	1.00	0.00
ATOM	1486	CG	GLN	A	133	24.612	50.486	-1.084	1.00	0.00
ATOM	1487	CD	GLN	A	133	24.070	49.832	-2.341	1.00	0.00
ATOM	1488	OE1	GLN	A	133	23.874	48.614	-2.388	1.00	0.00
ATOM	1489	NE2	GLN	A	133	23.829	50.637	-3.369	1.00	0.00
ATOM	1490	H	GLN	A	133	27.238	50.221	0.180	1.00	0.00
ATOM	1491	HA	GLN	A	133	24.899	51.018	1.571	1.00	0.00
ATOM	1492	1HB	GLN	A	133	25.444	48.682	-0.266	1.00	0.00
ATOM	1493	2HB	GLN	A	133	23.824	49.091	0.346	1.00	0.00
ATOM	1494	1HG	GLN	A	133	24.105	51.442	-0.959	1.00	0.00
ATOM	1495	2HG	GLN	A	133	25.681	50.659	-1.219	1.00	0.00
ATOM	1496	1HE2	GLN	A	133	23.471	50.262	-4.225	1.00	0.00
ATOM	1497	2HE2	GLN	A	133	24.005	51.618	-3.289	1.00	0.00
ATOM	1498	N	LYS	A	134	26.151	48.202	2.667	1.00	0.00
ATOM	1499	CA	LYS	A	134	26.079	47.277	3.799	1.00	0.00
ATOM	1500	C	LYS	A	134	26.514	48.196	4.926	1.00	0.00
ATOM	1501	O	LYS	A	134	26.648	49.395	4.714	1.00	0.00
ATOM	1502	CB	LYS	A	134	27.046	46.102	3.570	1.00	0.00
ATOM	1503	CG	LYS	A	134	26.949	45.402	2.195	1.00	0.00
ATOM	1504	CD	LYS	A	134	25.733	44.488	1.964	1.00	0.00
ATOM	1505	CE	LYS	A	134	25.630	43.909	0.534	1.00	0.00
ATOM	1506	NZ	LYS	A	134	24.413	43.096	0.366	1.00	0.00
ATOM	1507	H	LYS	A	134	26.917	48.121	2.013	1.00	0.00
ATOM	1508	HA	LYS	A	134	25.059	46.906	3.908	1.00	0.00

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ATOM	1509	1HB	LYS	A	134	28.057	46.492	3.691	1.00	0.00
ATOM	1510	2HB	LYS	A	134	26.846	45.366	4.349	1.00	0.00
ATOM	1511	1HG	LYS	A	134	26.917	46.167	1.418	1.00	0.00
ATOM	1512	2HG	LYS	A	134	27.835	44.783	2.058	1.00	0.00
ATOM	1513	1HD	LYS	A	134	25.790	43.651	2.662	1.00	0.00
ATOM	1514	2HD	LYS	A	134	24.826	45.060	2.159	1.00	0.00
ATOM	1515	1HE	LYS	A	134	25.616	44.739	-0.171	1.00	0.00
ATOM	1516	2HE	LYS	A	134	26.510	43.293	0.351	1.00	0.00
ATOM	1517	1HZ	LYS	A	134	24.378	42.734	-0.576	1.00	0.00
ATOM	1518	2HZ	LYS	A	134	24.428	42.327	1.022	1.00	0.00
ATOM	1519	3HZ	LYS	A	134	23.599	43.669	0.537	1.00	0.00
ATOM	1520	N	ASN	A	135	26.729	47.681	6.121	1.00	0.00
ATOM	1521	CA	ASN	A	135	27.203	48.573	7.173	1.00	0.00
ATOM	1522	C	ASN	A	135	28.317	47.877	7.917	1.00	0.00
ATOM	1523	O	ASN	A	135	28.695	48.254	9.030	1.00	0.00
ATOM	1524	CB	ASN	A	135	26.096	48.988	8.125	1.00	0.00
ATOM	1525	CG	ASN	A	135	24.972	49.731	7.459	1.00	0.00
ATOM	1526	OD1	ASN	A	135	25.106	50.905	7.095	1.00	0.00
ATOM	1527	ND2	ASN	A	135	23.839	49.081	7.373	1.00	0.00
ATOM	1528	H	ASN	A	135	26.580	46.705	6.334	1.00	0.00
ATOM	1529	HA	ASN	A	135	27.602	49.487	6.731	1.00	0.00
ATOM	1530	1HB	ASN	A	135	25.681	48.278	8.842	1.00	0.00
ATOM	1531	2HB	ASN	A	135	26.729	49.705	8.649	1.00	0.00
ATOM	1532	1HD2	ASN	A	135	23.047	49.514	6.941	1.00	0.00
ATOM	1533	2HD2	ASN	A	135	23.766	48.154	7.737	1.00	0.00
ATOM	1534	N	LEU	A	136	28.850	46.863	7.247	1.00	0.00
ATOM	1535	CA	LEU	A	136	29.909	46.025	7.765	1.00	0.00
ATOM	1536	C	LEU	A	136	31.306	46.488	7.388	1.00	0.00
ATOM	1537	O	LEU	A	136	31.582	46.804	6.232	1.00	0.00
ATOM	1538	CB	LEU	A	136	29.670	44.596	7.281	1.00	0.00
ATOM	1539	CG	LEU	A	136	30.642	43.574	7.866	1.00	0.00
ATOM	1540	CD1	LEU	A	136	30.406	43.324	9.356	1.00	0.00
ATOM	1541	CD2	LEU	A	136	30.652	42.285	7.049	1.00	0.00
ATOM	1542	H	LEU	A	136	28.484	46.679	6.324	1.00	0.00
ATOM	1543	HA	LEU	A	136	29.895	46.051	8.854	1.00	0.00
ATOM	1544	1HB	LEU	A	136	28.668	44.440	7.677	1.00	0.00
ATOM	1545	2HB	LEU	A	136	29.644	44.537	6.193	1.00	0.00
ATOM	1546	HG	LEU	A	136	31.642	44.002	7.797	1.00	0.00
ATOM	1547	1HD1	LEU	A	136	31.124	42.590	9.720	1.00	0.00
ATOM	1548	2HD1	LEU	A	136	30.532	44.257	9.906	1.00	0.00
ATOM	1549	3HD1	LEU	A	136	29.395	42.947	9.506	1.00	0.00
ATOM	1550	1HD2	LEU	A	136	31.355	41.579	7.492	1.00	0.00
ATOM	1551	2HD2	LEU	A	136	29.653	41.849	7.045	1.00	0.00
ATOM	1552	3HD2	LEU	A	136	30.956	42.505	6.026	1.00	0.00
ATOM	1553	N	LYS	A	137	32.182	46.533	8.382	1.00	0.00
ATOM	1554	CA	LYS	A	137	33.570	46.890	8.163	1.00	0.00
ATOM	1555	C	LYS	A	137	34.360	45.691	8.664	1.00	0.00
ATOM	1556	O	LYS	A	137	34.281	45.330	9.839	1.00	0.00
ATOM	1557	CB	LYS	A	137	33.960	48.175	8.896	1.00	0.00
ATOM	1558	CG	LYS	A	137	33.234	49.422	8.410	1.00	0.00
ATOM	1559	CD	LYS	A	137	33.650	50.650	9.206	1.00	0.00
ATOM	1560	CE	LYS	A	137	32.961	51.904	8.689	1.00	0.00
ATOM	1561	NZ	LYS	A	137	31.499	51.892	8.969	1.00	0.00
ATOM	1562	H	LYS	A	137	31.873	46.312	9.318	1.00	0.00
ATOM	1563	HA	LYS	A	137	33.747	47.049	7.099	1.00	0.00
ATOM	1564	1HB	LYS	A	137	33.744	48.017	9.953	1.00	0.00
ATOM	1565	2HB	LYS	A	137	35.034	48.306	8.761	1.00	0.00
ATOM	1566	1HG	LYS	A	137	33.472	49.573	7.356	1.00	0.00
ATOM	1567	2HG	LYS	A	137	32.162	49.263	8.521	1.00	0.00
ATOM	1568	1HD	LYS	A	137	33.384	50.493	10.252	1.00	0.00
ATOM	1569	2HD	LYS	A	137	34.730	50.769	9.121	1.00	0.00
ATOM	1570	1HE	LYS	A	137	33.416	52.768	9.173	1.00	0.00
ATOM	1571	2HE	LYS	A	137	33.123	51.965	7.613	1.00	0.00

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ATOM	1572	1HZ	LYS	A	137	31.081	52.739	8.611	1.00	0.00
ATOM	1573	2HZ	LYS	A	137	31.077	51.092	8.520	1.00	0.00
ATOM	1574	3HZ	LYS	A	137	31.348	51.837	9.966	1.00	0.00
ATOM	1575	N	SER	A	138	35.094	45.058	7.754	1.00	0.00
ATOM	1576	CA	SER	A	138	35.873	43.874	8.081	1.00	0.00
ATOM	1577	C	SER	A	138	37.286	44.001	7.527	1.00	0.00
ATOM	1578	O	SER	A	138	37.473	44.336	6.356	1.00	0.00
ATOM	1579	CB	SER	A	138	35.195	42.631	7.538	1.00	0.00
ATOM	1580	OG	SER	A	138	35.923	41.468	7.823	1.00	0.00
ATOM	1581	H	SER	A	138	35.110	45.411	6.808	1.00	0.00
ATOM	1582	HA	SER	A	138	35.900	43.655	9.149	1.00	0.00
ATOM	1583	1HB	SER	A	138	34.206	42.549	7.988	1.00	0.00
ATOM	1584	2HB	SER	A	138	35.095	42.731	6.458	1.00	0.00
ATOM	1585	HG	SER	A	138	35.462	40.706	7.464	1.00	0.00
ATOM	1586	N	ALA	A	139	38.281	43.737	8.369	1.00	0.00
ATOM	1587	CA	ALA	A	139	39.671	43.816	7.941	1.00	0.00
ATOM	1588	C	ALA	A	139	40.503	42.672	8.512	1.00	0.00
ATOM	1589	O	ALA	A	139	40.239	42.184	9.616	1.00	0.00
ATOM	1590	CB	ALA	A	139	40.285	45.156	8.334	1.00	0.00
ATOM	1591	H	ALA	A	139	38.074	43.477	9.323	1.00	0.00
ATOM	1592	HA	ALA	A	139	39.708	43.726	6.855	1.00	0.00
ATOM	1593	1HB	ALA	A	139	41.323	45.190	8.003	1.00	0.00
ATOM	1594	2HB	ALA	A	139	39.727	45.965	7.862	1.00	0.00
ATOM	1595	3HB	ALA	A	139	40.246	45.271	9.416	1.00	0.00
ATOM	1596	N	SER	A	140	41.502	42.244	7.743	1.00	0.00
ATOM	1597	CA	SER	A	140	42.394	41.157	8.143	1.00	0.00
ATOM	1598	C	SER	A	140	43.829	41.613	7.950	1.00	0.00
ATOM	1599	O	SER	A	140	44.121	42.351	7.013	1.00	0.00
ATOM	1600	CB	SER	A	140	42.113	39.900	7.342	1.00	0.00
ATOM	1601	OG	SER	A	140	42.368	40.079	5.976	1.00	0.00
ATOM	1602	H	SER	A	140	41.643	42.693	6.849	1.00	0.00
ATOM	1603	HA	SER	A	140	42.215	40.801	9.159	1.00	0.00
ATOM	1604	1HB	SER	A	140	42.747	39.098	7.719	1.00	0.00
ATOM	1605	2HB	SER	A	140	41.067	39.628	7.475	1.00	0.00
ATOM	1606	HG	SER	A	140	41.626	40.535	5.570	1.00	0.00
ATOM	1607	N	ARG	A	141	44.727	41.166	8.821	1.00	0.00
ATOM	1608	CA	ARG	A	141	46.131	41.551	8.718	1.00	0.00
ATOM	1609	C	ARG	A	141	47.058	40.417	9.137	1.00	0.00
ATOM	1610	O	ARG	A	141	46.817	39.753	10.145	1.00	0.00
ATOM	1611	CB	ARG	A	141	46.432	42.826	9.492	1.00	0.00
ATOM	1612	CG	ARG	A	141	47.795	43.438	9.213	1.00	0.00
ATOM	1613	CD	ARG	A	141	47.827	44.355	8.045	1.00	0.00
ATOM	1614	NE	ARG	A	141	49.031	45.164	7.946	1.00	0.00
ATOM	1615	CZ	ARG	A	141	49.249	46.099	7.002	1.00	0.00
ATOM	1616	NH1	ARG	A	141	48.367	46.323	6.053	1.00	0.00
ATOM	1617	NH2	ARG	A	141	50.386	46.772	7.040	1.00	0.00
ATOM	1618	H	ARG	A	141	44.439	40.550	9.568	1.00	0.00
ATOM	1619	HA	ARG	A	141	46.376	41.777	7.680	1.00	0.00
ATOM	1620	1HB	ARG	A	141	45.655	43.545	9.235	1.00	0.00
ATOM	1621	2HB	ARG	A	141	46.360	42.578	10.552	1.00	0.00
ATOM	1622	1HG	ARG	A	141	48.109	44.002	10.091	1.00	0.00
ATOM	1623	2HG	ARG	A	141	48.505	42.631	9.026	1.00	0.00
ATOM	1624	1HD	ARG	A	141	47.753	43.767	7.131	1.00	0.00
ATOM	1625	2HD	ARG	A	141	46.980	45.037	8.108	1.00	0.00
ATOM	1626	HE	ARG	A	141	49.857	45.163	8.530	1.00	0.00
ATOM	1627	1HH1	ARG	A	141	47.511	45.788	6.027	1.00	0.00
ATOM	1628	2HH1	ARG	A	141	48.549	47.028	5.354	1.00	0.00
ATOM	1629	1HH2	ARG	A	141	51.062	46.575	7.766	1.00	0.00
ATOM	1630	2HH2	ARG	A	141	50.575	47.478	6.345	1.00	0.00
ATOM	1631	N	ILE	A	142	48.110	40.193	8.352	1.00	0.00
ATOM	1632	CA	ILE	A	142	49.114	39.171	8.662	1.00	0.00
ATOM	1633	C	ILE	A	142	50.306	39.924	9.256	1.00	0.00
ATOM	1634	O	ILE	A	142	50.843	40.828	8.622	1.00	0.00

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ATOM	1635	CB	ILE	A	142	49.550	38.361	7.428	1.00	0.00
ATOM	1636	CG1	ILE	A	142	48.332	37.735	6.742	1.00	0.00
ATOM	1637	CG2	ILE	A	142	50.552	37.287	7.823	1.00	0.00
ATOM	1638	CD1	ILE	A	142	48.641	37.111	5.400	1.00	0.00
ATOM	1639	H	ILE	A	142	48.216	40.749	7.515	1.00	0.00
ATOM	1640	HA	ILE	A	142	48.739	38.480	9.416	1.00	0.00
ATOM	1641	HB	ILE	A	142	50.006	39.034	6.703	1.00	0.00
ATOM	1642	1HG1	ILE	A	142	47.937	36.974	7.414	1.00	0.00
ATOM	1643	2HG1	ILE	A	142	47.592	38.525	6.614	1.00	0.00
ATOM	1644	1HG2	ILE	A	142	50.849	36.723	6.939	1.00	0.00
ATOM	1645	2HG2	ILE	A	142	51.430	37.755	8.267	1.00	0.00
ATOM	1646	3HG2	ILE	A	142	50.096	36.612	8.547	1.00	0.00
ATOM	1647	1HD1	ILE	A	142	47.729	36.689	4.976	1.00	0.00
ATOM	1648	2HD1	ILE	A	142	49.035	37.872	4.726	1.00	0.00
ATOM	1649	3HD1	ILE	A	142	49.379	36.321	5.527	1.00	0.00
ATOM	1650	N	VAL	A	143	50.709	39.566	10.470	1.00	0.00
ATOM	1651	CA	VAL	A	143	51.823	40.245	11.122	1.00	0.00
ATOM	1652	C	VAL	A	143	52.977	39.288	11.377	1.00	0.00
ATOM	1653	O	VAL	A	143	52.778	38.217	11.957	1.00	0.00
ATOM	1654	CB	VAL	A	143	51.360	40.903	12.426	1.00	0.00
ATOM	1655	CG1	VAL	A	143	52.506	41.646	13.115	1.00	0.00
ATOM	1656	CG2	VAL	A	143	50.150	41.809	12.191	1.00	0.00
ATOM	1657	H	VAL	A	143	50.241	38.813	10.954	1.00	0.00
ATOM	1658	HA	VAL	A	143	52.241	41.024	10.483	1.00	0.00
ATOM	1659	HB	VAL	A	143	51.036	40.126	13.119	1.00	0.00
ATOM	1660	1HG1	VAL	A	143	52.143	42.101	14.037	1.00	0.00
ATOM	1661	2HG1	VAL	A	143	53.307	40.944	13.348	1.00	0.00
ATOM	1662	3HG1	VAL	A	143	52.885	42.424	12.453	1.00	0.00
ATOM	1663	1HG2	VAL	A	143	49.844	42.261	13.134	1.00	0.00
ATOM	1664	2HG2	VAL	A	143	50.416	42.593	11.482	1.00	0.00
ATOM	1665	3HG2	VAL	A	143	49.326	41.219	11.788	1.00	0.00
ATOM	1666	N	PHE	A	144	54.178	39.686	10.949	1.00	0.00
ATOM	1667	CA	PHE	A	144	55.380	38.865	11.109	1.00	0.00
ATOM	1668	C	PHE	A	144	56.373	39.354	12.153	1.00	0.00
ATOM	1669	O	PHE	A	144	56.416	40.535	12.506	1.00	0.00
ATOM	1670	CB	PHE	A	144	56.095	38.747	9.762	1.00	0.00
ATOM	1671	CG	PHE	A	144	55.313	37.994	8.724	1.00	0.00
ATOM	1672	CD1	PHE	A	144	54.519	38.669	7.809	1.00	0.00
ATOM	1673	CD2	PHE	A	144	55.368	36.610	8.661	1.00	0.00
ATOM	1674	CE1	PHE	A	144	53.798	37.977	6.854	1.00	0.00
ATOM	1675	CE2	PHE	A	144	54.650	35.916	7.707	1.00	0.00
ATOM	1676	CZ	PHE	A	144	53.864	36.601	6.802	1.00	0.00
ATOM	1677	H	PHE	A	144	54.254	40.587	10.499	1.00	0.00
ATOM	1678	HA	PHE	A	144	55.104	37.869	11.457	1.00	0.00
ATOM	1679	1HB	PHE	A	144	56.287	39.737	9.350	1.00	0.00
ATOM	1680	2HB	PHE	A	144	57.039	38.217	9.885	1.00	0.00
ATOM	1681	HD1	PHE	A	144	54.468	39.757	7.849	1.00	0.00
ATOM	1682	HD2	PHE	A	144	55.989	36.069	9.376	1.00	0.00
ATOM	1683	HE1	PHE	A	144	53.178	38.520	6.141	1.00	0.00
ATOM	1684	HE2	PHE	A	144	54.702	34.828	7.668	1.00	0.00
ATOM	1685	HZ	PHE	A	144	53.295	36.055	6.051	1.00	0.00
ATOM	1686	N	GLU	A	145	57.184	38.414	12.628	1.00	0.00
ATOM	1687	CA	GLU	A	145	58.209	38.679	13.626	1.00	0.00
ATOM	1688	C	GLU	A	145	59.235	39.710	13.141	1.00	0.00
ATOM	1689	O	GLU	A	145	59.386	39.936	11.940	1.00	0.00
ATOM	1690	CB	GLU	A	145	58.915	37.377	14.011	1.00	0.00
ATOM	1691	CG	GLU	A	145	59.766	36.772	12.903	1.00	0.00
ATOM	1692	CD	GLU	A	145	60.369	35.463	13.330	1.00	0.00
ATOM	1693	OE1	GLU	A	145	60.108	35.042	14.431	1.00	0.00
ATOM	1694	OE2	GLU	A	145	60.998	34.828	12.517	1.00	0.00
ATOM	1695	H	GLU	A	145	57.075	37.475	12.272	1.00	0.00
ATOM	1696	HA	GLU	A	145	57.754	39.110	14.518	1.00	0.00
ATOM	1697	1HB	GLU	A	145	59.546	37.599	14.872	1.00	0.00

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ATOM	1698	2HB	GLU	A	145	58.140	36.667	14.301	1.00	0.00
ATOM	1699	1HG	GLU	A	145	59.225	36.634	11.967	1.00	0.00
ATOM	1700	2HG	GLU	A	145	60.558	37.506	12.758	1.00	0.00
ATOM	1701	N	LYS	A	146	59.935	40.327	14.089	1.00	0.00
ATOM	1702	CA	LYS	A	146	60.939	41.340	13.790	1.00	0.00
ATOM	1703	C	LYS	A	146	61.949	40.890	12.746	1.00	0.00
ATOM	1704	O	LYS	A	146	62.218	39.699	12.592	1.00	0.00
ATOM	1705	CB	LYS	A	146	61.671	41.744	15.071	1.00	0.00
ATOM	1706	CG	LYS	A	146	62.575	40.663	15.646	1.00	0.00
ATOM	1707	CD	LYS	A	146	63.257	41.133	16.923	1.00	0.00
ATOM	1708	CE	LYS	A	146	64.190	40.067	17.478	1.00	0.00
ATOM	1709	NZ	LYS	A	146	64.874	40.518	18.720	1.00	0.00
ATOM	1710	H	LYS	A	146	59.758	40.079	15.052	1.00	0.00
ATOM	1711	HA	LYS	A	146	60.458	42.222	13.365	1.00	0.00
ATOM	1712	1HB	LYS	A	146	62.266	42.627	14.834	1.00	0.00
ATOM	1713	2HB	LYS	A	146	60.909	42.008	15.805	1.00	0.00
ATOM	1714	1HG	LYS	A	146	61.969	39.782	15.861	1.00	0.00
ATOM	1715	2HG	LYS	A	146	63.331	40.411	14.903	1.00	0.00
ATOM	1716	1HD	LYS	A	146	63.827	42.036	16.700	1.00	0.00
ATOM	1717	2HD	LYS	A	146	62.489	41.363	17.662	1.00	0.00
ATOM	1718	1HE	LYS	A	146	63.602	39.175	17.691	1.00	0.00
ATOM	1719	2HE	LYS	A	146	64.935	39.836	16.717	1.00	0.00
ATOM	1720	1HZ	LYS	A	146	65.482	39.784	19.055	1.00	0.00
ATOM	1721	2HZ	LYS	A	146	65.420	41.345	18.523	1.00	0.00
ATOM	1722	3HZ	LYS	A	146	64.183	40.732	19.426	1.00	0.00
ATOM	1723	N	LYS	A	147	62.482	41.874	12.026	1.00	0.00
ATOM	1724	CA	LYS	A	147	63.506	41.697	10.996	1.00	0.00
ATOM	1725	C	LYS	A	147	63.318	40.652	9.894	1.00	0.00
ATOM	1726	O	LYS	A	147	64.233	40.434	9.104	1.00	0.00
ATOM	1727	CB	LYS	A	147	64.831	41.402	11.700	1.00	0.00
ATOM	1728	CG	LYS	A	147	65.363	42.551	12.547	1.00	0.00
ATOM	1729	CD	LYS	A	147	66.657	42.168	13.250	1.00	0.00
ATOM	1730	CE	LYS	A	147	67.163	43.298	14.133	1.00	0.00
ATOM	1731	NZ	LYS	A	147	68.406	42.922	14.861	1.00	0.00
ATOM	1732	H	LYS	A	147	62.138	42.803	12.223	1.00	0.00
ATOM	1733	HA	LYS	A	147	63.594	42.608	10.403	1.00	0.00
ATOM	1734	1HB	LYS	A	147	64.669	40.530	12.334	1.00	0.00
ATOM	1735	2HB	LYS	A	147	65.558	41.157	10.925	1.00	0.00
ATOM	1736	1HG	LYS	A	147	65.543	43.407	11.895	1.00	0.00
ATOM	1737	2HG	LYS	A	147	64.609	42.813	13.289	1.00	0.00
ATOM	1738	1HD	LYS	A	147	66.471	41.284	13.861	1.00	0.00
ATOM	1739	2HD	LYS	A	147	67.407	41.934	12.495	1.00	0.00
ATOM	1740	1HE	LYS	A	147	67.360	44.163	13.502	1.00	0.00
ATOM	1741	2HE	LYS	A	147	66.383	43.545	14.853	1.00	0.00
ATOM	1742	1HZ	LYS	A	147	68.708	43.697	15.434	1.00	0.00
ATOM	1743	2HZ	LYS	A	147	68.223	42.120	15.448	1.00	0.00
ATOM	1744	3HZ	LYS	A	147	69.130	42.694	14.194	1.00	0.00
ATOM	1745	N	LEU	A	148	62.153	40.019	9.810	1.00	0.00
ATOM	1746	CA	LEU	A	148	61.936	39.010	8.771	1.00	0.00
ATOM	1747	C	LEU	A	148	61.904	39.641	7.363	1.00	0.00
ATOM	1748	O	LEU	A	148	61.445	40.772	7.191	1.00	0.00
ATOM	1749	CB	LEU	A	148	60.633	38.249	9.047	1.00	0.00
ATOM	1750	CG	LEU	A	148	60.365	37.057	8.119	1.00	0.00
ATOM	1751	CD1	LEU	A	148	61.408	35.971	8.349	1.00	0.00
ATOM	1752	CD2	LEU	A	148	58.964	36.521	8.372	1.00	0.00
ATOM	1753	H	LEU	A	148	61.407	40.225	10.459	1.00	0.00
ATOM	1754	HA	LEU	A	148	62.767	38.305	8.768	1.00	0.00
ATOM	1755	1HB	LEU	A	148	60.844	37.897	10.056	1.00	0.00
ATOM	1756	2HB	LEU	A	148	59.772	38.916	9.067	1.00	0.00
ATOM	1757	HG	LEU	A	148	60.400	37.429	7.095	1.00	0.00
ATOM	1758	1HD1	LEU	A	148	61.209	35.129	7.686	1.00	0.00
ATOM	1759	2HD1	LEU	A	148	62.400	36.370	8.140	1.00	0.00
ATOM	1760	3HD1	LEU	A	148	61.361	35.636	9.385	1.00	0.00

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ATOM	1761	1HD2	LEU	A	148	58.774	35.674	7.712	1.00	0.00
ATOM	1762	2HD2	LEU	A	148	58.879	36.198	9.410	1.00	0.00
ATOM	1763	3HD2	LEU	A	148	58.233	37.305	8.175	1.00	0.00
ATOM	1764	N	ARG	A	149	62.415	38.918	6.368	1.00	0.00
ATOM	1765	CA	ARG	A	149	62.431	39.408	4.987	1.00	0.00
ATOM	1766	C	ARG	A	149	61.460	38.574	4.139	1.00	0.00
ATOM	1767	O	ARG	A	149	61.677	37.378	3.922	1.00	0.00
ATOM	1768	CB	ARG	A	149	63.831	39.435	4.391	1.00	0.00
ATOM	1769	CG	ARG	A	149	64.792	40.404	5.061	1.00	0.00
ATOM	1770	CD	ARG	A	149	66.176	40.365	4.521	1.00	0.00
ATOM	1771	NE	ARG	A	149	67.090	41.312	5.138	1.00	0.00
ATOM	1772	CZ	ARG	A	149	68.361	41.518	4.741	1.00	0.00
ATOM	1773	NH1	ARG	A	149	68.884	40.822	3.757	1.00	0.00
ATOM	1774	NH2	ARG	A	149	69.077	42.423	5.385	1.00	0.00
ATOM	1775	H	ARG	A	149	62.802	38.007	6.571	1.00	0.00
ATOM	1776	HA	ARG	A	149	62.090	40.443	4.959	1.00	0.00
ATOM	1777	1HB	ARG	A	149	64.228	38.424	4.466	1.00	0.00
ATOM	1778	2HB	ARG	A	149	63.723	39.706	3.341	1.00	0.00
ATOM	1779	1HG	ARG	A	149	64.410	41.417	4.933	1.00	0.00
ATOM	1780	2HG	ARG	A	149	64.839	40.165	6.124	1.00	0.00
ATOM	1781	1HD	ARG	A	149	66.587	39.368	4.673	1.00	0.00
ATOM	1782	2HD	ARG	A	149	66.146	40.587	3.455	1.00	0.00
ATOM	1783	HE	ARG	A	149	66.940	41.938	5.919	1.00	0.00
ATOM	1784	1HH1	ARG	A	149	68.329	40.121	3.286	1.00	0.00
ATOM	1785	2HH1	ARG	A	149	69.839	40.991	3.475	1.00	0.00
ATOM	1786	1HH2	ARG	A	149	68.665	42.937	6.152	1.00	0.00
ATOM	1787	2HH2	ARG	A	149	70.032	42.597	5.109	1.00	0.00
ATOM	1788	N	ILE	A	150	60.397	39.220	3.661	1.00	0.00
ATOM	1789	CA	ILE	A	150	59.360	38.559	2.867	1.00	0.00
ATOM	1790	C	ILE	A	150	59.548	38.608	1.346	1.00	0.00
ATOM	1791	O	ILE	A	150	59.697	39.680	0.754	1.00	0.00
ATOM	1792	CB	ILE	A	150	57.980	39.158	3.195	1.00	0.00
ATOM	1793	CG1	ILE	A	150	57.705	39.073	4.698	1.00	0.00
ATOM	1794	CG2	ILE	A	150	56.890	38.444	2.410	1.00	0.00
ATOM	1795	CD1	ILE	A	150	56.480	39.842	5.139	1.00	0.00
ATOM	1796	H	ILE	A	150	60.311	40.207	3.859	1.00	0.00
ATOM	1797	HA	ILE	A	150	59.358	37.486	3.055	1.00	0.00
ATOM	1798	HB	ILE	A	150	57.981	40.216	2.935	1.00	0.00
ATOM	1799	1HG1	ILE	A	150	57.581	38.020	4.946	1.00	0.00
ATOM	1800	2HG1	ILE	A	150	58.583	39.465	5.211	1.00	0.00
ATOM	1801	1HG2	ILE	A	150	55.922	38.879	2.653	1.00	0.00
ATOM	1802	2HG2	ILE	A	150	57.079	38.555	1.343	1.00	0.00
ATOM	1803	3HG2	ILE	A	150	56.888	37.386	2.670	1.00	0.00
ATOM	1804	1HD1	ILE	A	150	56.350	39.735	6.216	1.00	0.00
ATOM	1805	2HD1	ILE	A	150	56.604	40.898	4.892	1.00	0.00
ATOM	1806	3HD1	ILE	A	150	55.601	39.452	4.629	1.00	0.00
ATOM	1807	N	LYS	A	151	59.517	37.437	0.718	1.00	0.00
ATOM	1808	CA	LYS	A	151	59.665	37.343	-0.726	1.00	0.00
ATOM	1809	C	LYS	A	151	58.506	38.087	-1.395	1.00	0.00
ATOM	1810	O	LYS	A	151	57.342	37.845	-1.087	1.00	0.00
ATOM	1811	CB	LYS	A	151	59.707	35.882	-1.178	1.00	0.00
ATOM	1812	CG	LYS	A	151	60.955	35.125	-0.745	1.00	0.00
ATOM	1813	CD	LYS	A	151	60.942	33.694	-1.261	1.00	0.00
ATOM	1814	CE	LYS	A	151	62.189	32.938	-0.831	1.00	0.00
ATOM	1815	NZ	LYS	A	151	62.181	31.530	-1.313	1.00	0.00
ATOM	1816	H	LYS	A	151	59.388	36.592	1.255	1.00	0.00
ATOM	1817	HA	LYS	A	151	60.594	37.825	-1.034	1.00	0.00
ATOM	1818	1HB	LYS	A	151	58.824	35.394	-0.763	1.00	0.00
ATOM	1819	2HB	LYS	A	151	59.643	35.882	-2.266	1.00	0.00
ATOM	1820	1HG	LYS	A	151	61.829	35.646	-1.137	1.00	0.00
ATOM	1821	2HG	LYS	A	151	60.996	35.119	0.344	1.00	0.00
ATOM	1822	1HD	LYS	A	151	60.057	33.191	-0.868	1.00	0.00
ATOM	1823	2HD	LYS	A	151	60.890	33.718	-2.350	1.00	0.00

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ATOM	1824	1HE	LYS	A	151	63.059	33.454	-1.235	1.00	0.00
ATOM	1825	2HE	LYS	A	151	62.236	32.947	0.258	1.00	0.00
ATOM	1826	1HZ	LYS	A	151	63.023	31.064	-1.006	1.00	0.00
ATOM	1827	2HZ	LYS	A	151	61.375	31.050	-0.938	1.00	0.00
ATOM	1828	3HZ	LYS	A	151	62.139	31.520	-2.322	1.00	0.00
ATOM	1829	N	SER	A	152	58.835	39.003	-2.301	1.00	0.00
ATOM	1830	CA	SER	A	152	57.829	39.796	-3.008	1.00	0.00
ATOM	1831	C	SER	A	152	56.853	38.941	-3.806	1.00	0.00
ATOM	1832	O	SER	A	152	55.751	39.388	-4.139	1.00	0.00
ATOM	1833	CB	SER	A	152	58.514	40.790	-3.926	1.00	0.00
ATOM	1834	OG	SER	A	152	59.209	40.155	-4.964	1.00	0.00
ATOM	1835	H	SER	A	152	59.813	39.153	-2.505	1.00	0.00
ATOM	1836	HA	SER	A	152	57.260	40.457	-2.353	1.00	0.00
ATOM	1837	1HB	SER	A	152	57.757	41.446	-4.355	1.00	0.00
ATOM	1838	2HB	SER	A	152	59.215	41.382	-3.339	1.00	0.00
ATOM	1839	HG	SER	A	152	59.626	40.817	-5.520	1.00	0.00
ATOM	1840	N	SER	A	153	57.270	37.717	-4.119	1.00	0.00
ATOM	1841	CA	SER	A	153	56.433	36.786	-4.865	1.00	0.00
ATOM	1842	C	SER	A	153	55.207	36.458	-4.013	1.00	0.00
ATOM	1843	O	SER	A	153	54.170	36.023	-4.523	1.00	0.00
ATOM	1844	CB	SER	A	153	57.205	35.531	-5.222	1.00	0.00
ATOM	1845	OG	SER	A	153	57.551	34.785	-4.087	1.00	0.00
ATOM	1846	H	SER	A	153	58.193	37.426	-3.831	1.00	0.00
ATOM	1847	HA	SER	A	153	56.157	37.150	-5.855	1.00	0.00
ATOM	1848	1HB	SER	A	153	56.587	34.916	-5.876	1.00	0.00
ATOM	1849	2HB	SER	A	153	58.115	35.818	-5.748	1.00	0.00
ATOM	1850	HG	SER	A	153	58.036	34.001	-4.356	1.00	0.00
ATOM	1851	N	PHE	A	154	55.338	36.662	-2.707	1.00	0.00
ATOM	1852	CA	PHE	A	154	54.233	36.415	-1.802	1.00	0.00
ATOM	1853	C	PHE	A	154	53.381	37.673	-1.662	1.00	0.00
ATOM	1854	O	PHE	A	154	52.152	37.612	-1.755	1.00	0.00
ATOM	1855	CB	PHE	A	154	54.748	35.959	-0.435	1.00	0.00
ATOM	1856	CG	PHE	A	154	53.690	35.929	0.631	1.00	0.00
ATOM	1857	CD1	PHE	A	154	52.666	34.995	0.587	1.00	0.00
ATOM	1858	CD2	PHE	A	154	53.717	36.835	1.681	1.00	0.00
ATOM	1859	CE1	PHE	A	154	51.692	34.967	1.567	1.00	0.00
ATOM	1860	CE2	PHE	A	154	52.746	36.809	2.663	1.00	0.00
ATOM	1861	CZ	PHE	A	154	51.732	35.873	2.605	1.00	0.00
ATOM	1862	H	PHE	A	154	56.216	36.993	-2.333	1.00	0.00
ATOM	1863	HA	PHE	A	154	53.589	35.634	-2.208	1.00	0.00
ATOM	1864	1HB	PHE	A	154	55.150	34.949	-0.504	1.00	0.00
ATOM	1865	2HB	PHE	A	154	55.525	36.636	-0.084	1.00	0.00
ATOM	1866	HD1	PHE	A	154	52.635	34.278	-0.234	1.00	0.00
ATOM	1867	HD2	PHE	A	154	54.517	37.575	1.726	1.00	0.00
ATOM	1868	HE1	PHE	A	154	50.893	34.227	1.520	1.00	0.00
ATOM	1869	HE2	PHE	A	154	52.778	37.526	3.483	1.00	0.00
ATOM	1870	HZ	PHE	A	154	50.965	35.852	3.378	1.00	0.00
ATOM	1871	N	VAL	A	155	54.038	38.809	-1.431	1.00	0.00
ATOM	1872	CA	VAL	A	155	53.344	40.083	-1.272	1.00	0.00
ATOM	1873	C	VAL	A	155	52.509	40.440	-2.503	1.00	0.00
ATOM	1874	O	VAL	A	155	51.416	40.996	-2.380	1.00	0.00
ATOM	1875	CB	VAL	A	155	54.337	41.227	-0.992	1.00	0.00
ATOM	1876	CG1	VAL	A	155	53.624	42.571	-1.028	1.00	0.00
ATOM	1877	CG2	VAL	A	155	55.020	41.024	0.352	1.00	0.00
ATOM	1878	H	VAL	A	155	55.046	38.786	-1.364	1.00	0.00
ATOM	1879	HA	VAL	A	155	52.619	40.041	-0.458	1.00	0.00
ATOM	1880	HB	VAL	A	155	55.119	41.210	-1.751	1.00	0.00
ATOM	1881	1HG1	VAL	A	155	54.341	43.368	-0.829	1.00	0.00
ATOM	1882	2HG1	VAL	A	155	53.180	42.721	-2.012	1.00	0.00
ATOM	1883	3HG1	VAL	A	155	52.842	42.589	-0.269	1.00	0.00
ATOM	1884	1HG2	VAL	A	155	55.718	41.840	0.533	1.00	0.00
ATOM	1885	2HG2	VAL	A	155	54.268	41.005	1.141	1.00	0.00
ATOM	1886	3HG2	VAL	A	155	55.562	40.078	0.345	1.00	0.00

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ATOM	1887	N	ALA	A	156	53.024	40.113	-3.685	1.00	0.00
ATOM	1888	CA	ALA	A	156	52.324	40.400	-4.933	1.00	0.00
ATOM	1889	C	ALA	A	156	50.903	39.809	-4.990	1.00	0.00
ATOM	1890	O	ALA	A	156	49.933	40.535	-5.220	1.00	0.00
ATOM	1891	CB	ALA	A	156	53.182	40.122	-6.183	1.00	0.00
ATOM	1892	H	ALA	A	156	53.923	39.654	-3.720	1.00	0.00
ATOM	1893	HA	ALA	A	156	52.201	41.479	-5.025	1.00	0.00
ATOM	1894	1HB	ALA	A	156	52.605	40.355	-7.078	1.00	0.00
ATOM	1895	2HB	ALA	A	156	54.077	40.744	-6.156	1.00	0.00
ATOM	1896	3HB	ALA	A	156	53.469	39.072	-6.201	1.00	0.00
ATOM	1897	N	PRO	A	157	50.763	38.484	-4.795	1.00	0.00
ATOM	1898	CA	PRO	A	157	49.437	37.859	-4.833	1.00	0.00
ATOM	1899	C	PRO	A	157	48.537	38.357	-3.700	1.00	0.00
ATOM	1900	O	PRO	A	157	47.346	38.619	-3.902	1.00	0.00
ATOM	1901	CB	PRO	A	157	49.731	36.360	-4.713	1.00	0.00
ATOM	1902	CG	PRO	A	157	51.095	36.296	-4.115	1.00	0.00
ATOM	1903	CD	PRO	A	157	51.808	37.524	-4.616	1.00	0.00
ATOM	1904	HA	PRO	A	157	48.880	38.097	-5.751	1.00	0.00
ATOM	1905	1HB	PRO	A	157	48.992	35.854	-4.075	1.00	0.00
ATOM	1906	2HB	PRO	A	157	49.703	35.864	-5.695	1.00	0.00
ATOM	1907	1HG	PRO	A	157	51.047	36.287	-3.016	1.00	0.00
ATOM	1908	2HG	PRO	A	157	51.621	35.380	-4.422	1.00	0.00
ATOM	1909	1HD	PRO	A	157	52.550	37.897	-3.894	1.00	0.00
ATOM	1910	2HD	PRO	A	157	52.343	37.338	-5.559	1.00	0.00
ATOM	1911	N	LEU	A	158	49.121	38.480	-2.510	1.00	0.00
ATOM	1912	CA	LEU	A	158	48.403	38.932	-1.323	1.00	0.00
ATOM	1913	C	LEU	A	158	47.742	40.303	-1.464	1.00	0.00
ATOM	1914	O	LEU	A	158	46.545	40.453	-1.210	1.00	0.00
ATOM	1915	CB	LEU	A	158	49.372	38.919	-0.141	1.00	0.00
ATOM	1916	CG	LEU	A	158	48.756	39.414	1.164	1.00	0.00
ATOM	1917	CD1	LEU	A	158	47.533	38.600	1.562	1.00	0.00
ATOM	1918	CD2	LEU	A	158	49.778	39.451	2.292	1.00	0.00
ATOM	1919	H	LEU	A	158	50.101	38.249	-2.434	1.00	0.00
ATOM	1920	HA	LEU	A	158	47.576	38.253	-1.116	1.00	0.00
ATOM	1921	1HB	LEU	A	158	49.573	37.850	-0.088	1.00	0.00
ATOM	1922	2HB	LEU	A	158	50.295	39.451	-0.370	1.00	0.00
ATOM	1923	HG	LEU	A	158	48.431	40.442	0.999	1.00	0.00
ATOM	1924	1HD1	LEU	A	158	47.126	38.987	2.496	1.00	0.00
ATOM	1925	2HD1	LEU	A	158	46.777	38.674	0.780	1.00	0.00
ATOM	1926	3HD1	LEU	A	158	47.818	37.557	1.695	1.00	0.00
ATOM	1927	1HD2	LEU	A	158	49.300	39.810	3.204	1.00	0.00
ATOM	1928	2HD2	LEU	A	158	50.173	38.449	2.459	1.00	0.00
ATOM	1929	3HD2	LEU	A	158	50.594	40.122	2.023	1.00	0.00
ATOM	1930	N	GLU	A	159	48.532	41.298	-1.858	1.00	0.00
ATOM	1931	CA	GLU	A	159	48.058	42.672	-2.034	1.00	0.00
ATOM	1932	C	GLU	A	159	47.019	42.756	-3.161	1.00	0.00
ATOM	1933	O	GLU	A	159	46.071	43.539	-3.099	1.00	0.00
ATOM	1934	CB	GLU	A	159	49.232	43.610	-2.326	1.00	0.00
ATOM	1935	CG	GLU	A	159	48.848	45.078	-2.448	1.00	0.00
ATOM	1936	CD	GLU	A	159	50.060	45.943	-2.654	1.00	0.00
ATOM	1937	OE1	GLU	A	159	51.146	45.416	-2.679	1.00	0.00
ATOM	1938	OE2	GLU	A	159	49.894	47.115	-2.899	1.00	0.00
ATOM	1939	H	GLU	A	159	49.502	41.085	-2.042	1.00	0.00
ATOM	1940	HA	GLU	A	159	47.559	43.010	-1.125	1.00	0.00
ATOM	1941	1HB	GLU	A	159	49.946	43.488	-1.511	1.00	0.00
ATOM	1942	2HB	GLU	A	159	49.684	43.274	-3.259	1.00	0.00
ATOM	1943	1HG	GLU	A	159	48.125	45.272	-3.240	1.00	0.00
ATOM	1944	2HG	GLU	A	159	48.399	45.306	-1.483	1.00	0.00
ATOM	1945	N	LYS	A	160	47.196	41.931	-4.184	1.00	0.00
ATOM	1946	CA	LYS	A	160	46.272	41.917	-5.304	1.00	0.00
ATOM	1947	C	LYS	A	160	44.893	41.390	-4.896	1.00	0.00
ATOM	1948	O	LYS	A	160	43.911	42.140	-4.868	1.00	0.00
ATOM	1949	CB	LYS	A	160	46.842	41.074	-6.446	1.00	0.00

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ATOM	1950	CG	LYS	A	160	45.969	41.032	-7.693	1.00	0.00
ATOM	1951	CD	LYS	A	160	46.631	40.231	-8.805	1.00	0.00
ATOM	1952	CE	LYS	A	160	45.758	40.186	-10.050	1.00	0.00
ATOM	1953	NZ	LYS	A	160	46.387	39.394	-11.142	1.00	0.00
ATOM	1954	H	LYS	A	160	47.985	41.300	-4.189	1.00	0.00
ATOM	1955	HA	LYS	A	160	46.113	42.934	-5.664	1.00	0.00
ATOM	1956	1HB	LYS	A	160	47.816	41.496	-6.699	1.00	0.00
ATOM	1957	2HB	LYS	A	160	46.974	40.063	-6.062	1.00	0.00
ATOM	1958	1HG	LYS	A	160	45.015	40.573	-7.432	1.00	0.00
ATOM	1959	2HG	LYS	A	160	45.800	42.053	-8.032	1.00	0.00
ATOM	1960	1HD	LYS	A	160	47.587	40.697	-9.047	1.00	0.00
ATOM	1961	2HD	LYS	A	160	46.803	39.216	-8.446	1.00	0.00
ATOM	1962	1HE	LYS	A	160	44.802	39.738	-9.782	1.00	0.00
ATOM	1963	2HE	LYS	A	160	45.596	41.208	-10.391	1.00	0.00
ATOM	1964	1HZ	LYS	A	160	45.778	39.389	-11.948	1.00	0.00
ATOM	1965	2HZ	LYS	A	160	47.273	39.810	-11.392	1.00	0.00
ATOM	1966	3HZ	LYS	A	160	46.536	38.446	-10.827	1.00	0.00
ATOM	1967	N	SER	A	161	44.831	40.103	-4.569	1.00	0.00
ATOM	1968	CA	SER	A	161	43.583	39.459	-4.188	1.00	0.00
ATOM	1969	C	SER	A	161	42.964	39.897	-2.859	1.00	0.00
ATOM	1970	O	SER	A	161	41.747	40.036	-2.761	1.00	0.00
ATOM	1971	CB	SER	A	161	43.807	37.960	-4.164	1.00	0.00
ATOM	1972	OG	SER	A	161	43.898	37.420	-5.453	1.00	0.00
ATOM	1973	H	SER	A	161	45.681	39.557	-4.587	1.00	0.00
ATOM	1974	HA	SER	A	161	42.795	39.565	-4.935	1.00	0.00
ATOM	1975	1HB	SER	A	161	44.733	37.754	-3.627	1.00	0.00
ATOM	1976	2HB	SER	A	161	42.974	37.491	-3.641	1.00	0.00
ATOM	1977	HG	SER	A	161	43.016	37.308	-5.816	1.00	0.00
ATOM	1978	N	TYR	A	162	43.777	40.117	-1.834	1.00	0.00
ATOM	1979	CA	TYR	A	162	43.215	40.507	-0.549	1.00	0.00
ATOM	1980	C	TYR	A	162	43.383	41.971	-0.176	1.00	0.00
ATOM	1981	O	TYR	A	162	42.901	42.413	0.870	1.00	0.00
ATOM	1982	CB	TYR	A	162	43.829	39.640	0.553	1.00	0.00
ATOM	1983	CG	TYR	A	162	43.523	38.165	0.414	1.00	0.00
ATOM	1984	CD1	TYR	A	162	44.357	37.330	-0.316	1.00	0.00
ATOM	1985	CD2	TYR	A	162	42.403	37.612	1.016	1.00	0.00
ATOM	1986	CE1	TYR	A	162	44.082	35.983	-0.446	1.00	0.00
ATOM	1987	CE2	TYR	A	162	42.119	36.266	0.893	1.00	0.00
ATOM	1988	CZ	TYR	A	162	42.961	35.454	0.161	1.00	0.00
ATOM	1989	OH	TYR	A	162	42.683	34.112	0.037	1.00	0.00
ATOM	1990	H	TYR	A	162	44.778	40.020	-1.924	1.00	0.00
ATOM	1991	HA	TYR	A	162	42.134	40.364	-0.559	1.00	0.00
ATOM	1992	1HB	TYR	A	162	44.909	39.792	0.520	1.00	0.00
ATOM	1993	2HB	TYR	A	162	43.440	40.004	1.503	1.00	0.00
ATOM	1994	HD1	TYR	A	162	45.240	37.755	-0.792	1.00	0.00
ATOM	1995	HD2	TYR	A	162	41.741	38.258	1.592	1.00	0.00
ATOM	1996	HE1	TYR	A	162	44.746	35.339	-1.022	1.00	0.00
ATOM	1997	HE2	TYR	A	162	41.232	35.850	1.373	1.00	0.00
ATOM	1998	HH	TYR	A	162	43.127	33.705	-0.711	1.00	0.00
ATOM	1999	N	GLY	A	163	44.056	42.719	-1.043	1.00	0.00
ATOM	2000	CA	GLY	A	163	44.269	44.135	-0.808	1.00	0.00
ATOM	2001	C	GLY	A	163	44.802	44.480	0.566	1.00	0.00
ATOM	2002	O	GLY	A	163	44.244	45.320	1.264	1.00	0.00
ATOM	2003	H	GLY	A	163	44.428	42.298	-1.882	1.00	0.00
ATOM	2004	1HA	GLY	A	163	44.988	44.513	-1.535	1.00	0.00
ATOM	2005	2HA	GLY	A	163	43.323	44.662	-0.927	1.00	0.00
ATOM	2006	N	THR	A	164	45.890	43.832	0.958	1.00	0.00
ATOM	2007	CA	THR	A	164	46.499	44.091	2.253	1.00	0.00
ATOM	2008	C	THR	A	164	47.981	43.713	2.193	1.00	0.00
ATOM	2009	O	THR	A	164	48.363	42.738	1.542	1.00	0.00
ATOM	2010	CB	THR	A	164	45.807	43.306	3.383	1.00	0.00
ATOM	2011	OG1	THR	A	164	46.394	43.659	4.642	1.00	0.00
ATOM	2012	CG2	THR	A	164	45.954	41.809	3.160	1.00	0.00

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ATOM	2013	H	THR	A	164	46.307	43.144	0.347	1.00	0.00
ATOM	2014	HA	THR	A	164	46.437	45.155	2.484	1.00	0.00
ATOM	2015	HB	THR	A	164	44.749	43.568	3.399	1.00	0.00
ATOM	2016	HG1	THR	A	164	45.960	43.168	5.345	1.00	0.00
ATOM	2017	1HG2	THR	A	164	45.458	41.272	3.968	1.00	0.00
ATOM	2018	2HG2	THR	A	164	45.498	41.537	2.208	1.00	0.00
ATOM	2019	3HG2	THR	A	164	47.011	41.547	3.145	1.00	0.00
ATOM	2020	N	ARG	A	165	48.814	44.512	2.851	1.00	0.00
ATOM	2021	CA	ARG	A	165	50.251	44.265	2.895	1.00	0.00
ATOM	2022	C	ARG	A	165	50.645	43.783	4.282	1.00	0.00
ATOM	2023	O	ARG	A	165	50.077	44.210	5.294	1.00	0.00
ATOM	2024	CB	ARG	A	165	51.068	45.474	2.463	1.00	0.00
ATOM	2025	CG	ARG	A	165	50.907	45.865	1.002	1.00	0.00
ATOM	2026	CD	ARG	A	165	51.664	47.080	0.607	1.00	0.00
ATOM	2027	NE	ARG	A	165	51.206	48.308	1.238	1.00	0.00
ATOM	2028	CZ	ARG	A	165	51.850	49.489	1.172	1.00	0.00
ATOM	2029	NH1	ARG	A	165	52.997	49.600	0.540	1.00	0.00
ATOM	2030	NH2	ARG	A	165	51.311	50.529	1.783	1.00	0.00
ATOM	2031	H	ARG	A	165	48.438	45.315	3.335	1.00	0.00
ATOM	2032	HA	ARG	A	165	50.512	43.478	2.187	1.00	0.00
ATOM	2033	1HB	ARG	A	165	50.762	46.307	3.094	1.00	0.00
ATOM	2034	2HB	ARG	A	165	52.114	45.236	2.657	1.00	0.00
ATOM	2035	1HG	ARG	A	165	51.253	45.038	0.381	1.00	0.00
ATOM	2036	2HG	ARG	A	165	49.850	46.049	0.807	1.00	0.00
ATOM	2037	1HD	ARG	A	165	52.712	46.948	0.875	1.00	0.00
ATOM	2038	2HD	ARG	A	165	51.580	47.215	-0.470	1.00	0.00
ATOM	2039	HE	ARG	A	165	50.380	48.475	1.797	1.00	0.00
ATOM	2040	1HH1	ARG	A	165	53.406	48.791	0.093	1.00	0.00
ATOM	2041	2HH1	ARG	A	165	53.465	50.494	0.502	1.00	0.00
ATOM	2042	1HH2	ARG	A	165	50.437	50.422	2.280	1.00	0.00
ATOM	2043	2HH2	ARG	A	165	51.773	51.426	1.750	1.00	0.00
ATOM	2044	N	PRO	A	166	51.622	42.873	4.346	1.00	0.00
ATOM	2045	CA	PRO	A	166	52.101	42.322	5.615	1.00	0.00
ATOM	2046	C	PRO	A	166	52.840	43.376	6.411	1.00	0.00
ATOM	2047	O	PRO	A	166	53.494	44.248	5.846	1.00	0.00
ATOM	2048	CB	PRO	A	166	53.016	41.162	5.209	1.00	0.00
ATOM	2049	CG	PRO	A	166	53.494	41.526	3.844	1.00	0.00
ATOM	2050	CD	PRO	A	166	52.343	42.252	3.199	1.00	0.00
ATOM	2051	HA	PRO	A	166	51.283	41.985	6.268	1.00	0.00
ATOM	2052	1HB	PRO	A	166	53.858	41.049	5.908	1.00	0.00
ATOM	2053	2HB	PRO	A	166	52.474	40.205	5.199	1.00	0.00
ATOM	2054	1HG	PRO	A	166	54.387	42.166	3.893	1.00	0.00
ATOM	2055	2HG	PRO	A	166	53.770	40.631	3.268	1.00	0.00
ATOM	2056	1HD	PRO	A	166	52.681	43.028	2.498	1.00	0.00
ATOM	2057	2HD	PRO	A	166	51.687	41.573	2.634	1.00	0.00
ATOM	2058	N	ARG	A	167	52.724	43.304	7.726	1.00	0.00
ATOM	2059	CA	ARG	A	167	53.411	44.245	8.586	1.00	0.00
ATOM	2060	C	ARG	A	167	54.552	43.476	9.229	1.00	0.00
ATOM	2061	O	ARG	A	167	54.369	42.336	9.654	1.00	0.00
ATOM	2062	CB	ARG	A	167	52.501	44.917	9.604	1.00	0.00
ATOM	2063	CG	ARG	A	167	53.195	45.907	10.526	1.00	0.00
ATOM	2064	CD	ARG	A	167	52.296	46.557	11.514	1.00	0.00
ATOM	2065	NE	ARG	A	167	51.295	47.437	10.931	1.00	0.00
ATOM	2066	CZ	ARG	A	167	51.513	48.721	10.586	1.00	0.00
ATOM	2067	NH1	ARG	A	167	52.680	49.290	10.796	1.00	0.00
ATOM	2068	NH2	ARG	A	167	50.515	49.402	10.051	1.00	0.00
ATOM	2069	H	ARG	A	167	52.150	42.585	8.143	1.00	0.00
ATOM	2070	HA	ARG	A	167	53.811	45.066	7.990	1.00	0.00
ATOM	2071	1HB	ARG	A	167	51.722	45.432	9.044	1.00	0.00
ATOM	2072	2HB	ARG	A	167	52.054	44.123	10.203	1.00	0.00
ATOM	2073	1HG	ARG	A	167	53.975	45.382	11.077	1.00	0.00
ATOM	2074	2HG	ARG	A	167	53.646	46.691	9.915	1.00	0.00
ATOM	2075	1HD	ARG	A	167	51.766	45.785	12.072	1.00	0.00

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ATOM	2076	2HD	ARG	A	167	52.896	47.154	12.200	1.00	0.00
ATOM	2077	HE	ARG	A	167	50.329	47.250	10.700	1.00	0.00
ATOM	2078	1HH1	ARG	A	167	53.427	48.761	11.222	1.00	0.00
ATOM	2079	2HH1	ARG	A	167	52.823	50.253	10.530	1.00	0.00
ATOM	2080	1HH2	ARG	A	167	49.619	48.954	9.913	1.00	0.00
ATOM	2081	2HH2	ARG	A	167	50.651	50.365	9.784	1.00	0.00
ATOM	2082	N	VAL	A	168	55.741	44.067	9.273	1.00	0.00
ATOM	2083	CA	VAL	A	168	56.859	43.378	9.916	1.00	0.00
ATOM	2084	C	VAL	A	168	57.112	44.076	11.241	1.00	0.00
ATOM	2085	O	VAL	A	168	57.382	45.271	11.279	1.00	0.00
ATOM	2086	CB	VAL	A	168	58.140	43.392	9.060	1.00	0.00
ATOM	2087	CG1	VAL	A	168	59.277	42.696	9.793	1.00	0.00
ATOM	2088	CG2	VAL	A	168	57.889	42.727	7.716	1.00	0.00
ATOM	2089	H	VAL	A	168	55.892	44.982	8.873	1.00	0.00
ATOM	2090	HA	VAL	A	168	56.612	42.338	10.133	1.00	0.00
ATOM	2091	HB	VAL	A	168	58.418	44.426	8.855	1.00	0.00
ATOM	2092	1HG1	VAL	A	168	60.175	42.716	9.174	1.00	0.00
ATOM	2093	2HG1	VAL	A	168	59.474	43.213	10.733	1.00	0.00
ATOM	2094	3HG1	VAL	A	168	59.000	41.662	9.997	1.00	0.00
ATOM	2095	1HG2	VAL	A	168	58.804	42.746	7.124	1.00	0.00
ATOM	2096	2HG2	VAL	A	168	57.580	41.693	7.874	1.00	0.00
ATOM	2097	3HG2	VAL	A	168	57.103	43.264	7.185	1.00	0.00
ATOM	2098	N	LEU	A	169	57.005	43.317	12.325	1.00	0.00
ATOM	2099	CA	LEU	A	169	57.197	43.849	13.667	1.00	0.00
ATOM	2100	C	LEU	A	169	58.533	44.576	13.879	1.00	0.00
ATOM	2101	O	LEU	A	169	59.584	44.185	13.354	1.00	0.00
ATOM	2102	CB	LEU	A	169	57.062	42.707	14.682	1.00	0.00
ATOM	2103	CG	LEU	A	169	55.623	42.264	14.979	1.00	0.00
ATOM	2104	CD1	LEU	A	169	55.630	41.038	15.881	1.00	0.00
ATOM	2105	CD2	LEU	A	169	54.863	43.409	15.631	1.00	0.00
ATOM	2106	H	LEU	A	169	56.783	42.338	12.211	1.00	0.00
ATOM	2107	HA	LEU	A	169	56.442	44.608	13.870	1.00	0.00
ATOM	2108	1HB	LEU	A	169	57.589	41.924	14.139	1.00	0.00
ATOM	2109	2HB	LEU	A	169	57.591	42.925	15.609	1.00	0.00
ATOM	2110	HG	LEU	A	169	55.146	42.050	14.022	1.00	0.00
ATOM	2111	1HD1	LEU	A	169	54.604	40.731	16.086	1.00	0.00
ATOM	2112	2HD1	LEU	A	169	56.159	40.224	15.385	1.00	0.00
ATOM	2113	3HD1	LEU	A	169	56.130	41.279	16.818	1.00	0.00
ATOM	2114	1HD2	LEU	A	169	53.840	43.094	15.840	1.00	0.00
ATOM	2115	2HD2	LEU	A	169	55.355	43.690	16.562	1.00	0.00
ATOM	2116	3HD2	LEU	A	169	54.846	44.266	14.957	1.00	0.00
ATOM	2117	N	THR	A	170	58.463	45.650	14.658	1.00	0.00
ATOM	2118	CA	THR	A	170	59.606	46.494	14.968	1.00	0.00
ATOM	2119	C	THR	A	170	60.472	45.958	16.102	1.00	0.00
ATOM	2120	O	THR	A	170	61.676	46.220	16.144	1.00	0.00
ATOM	2121	CB	THR	A	170	59.150	47.919	15.333	1.00	0.00
ATOM	2122	OG1	THR	A	170	58.436	48.492	14.229	1.00	0.00
ATOM	2123	CG2	THR	A	170	60.348	48.794	15.667	1.00	0.00
ATOM	2124	H	THR	A	170	57.561	45.881	15.049	1.00	0.00
ATOM	2125	HA	THR	A	170	60.273	46.543	14.107	1.00	0.00
ATOM	2126	HB	THR	A	170	58.486	47.868	16.196	1.00	0.00
ATOM	2127	HG1	THR	A	170	57.668	47.952	14.030	1.00	0.00
ATOM	2128	1HG2	THR	A	170	60.005	49.796	15.922	1.00	0.00
ATOM	2129	2HG2	THR	A	170	60.885	48.366	16.513	1.00	0.00
ATOM	2130	3HG2	THR	A	170	61.011	48.845	14.804	1.00	0.00
ATOM	2131	N	GLY	A	171	59.863	45.207	17.016	1.00	0.00
ATOM	2132	CA	GLY	A	171	60.607	44.666	18.138	1.00	0.00
ATOM	2133	C	GLY	A	171	60.348	45.474	19.397	1.00	0.00
ATOM	2134	O	GLY	A	171	60.411	44.946	20.508	1.00	0.00
ATOM	2135	H	GLY	A	171	58.876	45.006	16.937	1.00	0.00
ATOM	2136	1HA	GLY	A	171	60.299	43.634	18.305	1.00	0.00
ATOM	2137	2HA	GLY	A	171	61.671	44.694	17.906	1.00	0.00
ATOM	2138	N	ASN	A	172	60.060	46.762	19.220	1.00	0.00

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ATOM	2139	CA	ASN	A	172	59.775	47.657	20.333	1.00	0.00
ATOM	2140	C	ASN	A	172	58.323	47.440	20.729	1.00	0.00
ATOM	2141	O	ASN	A	172	57.408	47.809	19.995	1.00	0.00
ATOM	2142	CB	ASN	A	172	60.040	49.112	19.993	1.00	0.00
ATOM	2143	CG	ASN	A	172	59.856	50.048	21.155	1.00	0.00
ATOM	2144	OD1	ASN	A	172	58.766	50.149	21.731	1.00	0.00
ATOM	2145	ND2	ASN	A	172	60.891	50.792	21.451	1.00	0.00
ATOM	2146	H	ASN	A	172	60.040	47.126	18.278	1.00	0.00
ATOM	2147	HA	ASN	A	172	60.414	47.407	21.181	1.00	0.00
ATOM	2148	1HB	ASN	A	172	60.933	49.402	19.438	1.00	0.00
ATOM	2149	2HB	ASN	A	172	59.169	49.185	19.342	1.00	0.00
ATOM	2150	1HD2	ASN	A	172	60.841	51.438	22.213	1.00	0.00
ATOM	2151	2HD2	ASN	A	172	61.732	50.714	20.915	1.00	0.00
ATOM	2152	N	PRO	A	173	58.088	46.835	21.898	1.00	0.00
ATOM	2153	CA	PRO	A	173	56.722	46.577	22.368	1.00	0.00
ATOM	2154	C	PRO	A	173	55.751	47.763	22.311	1.00	0.00
ATOM	2155	O	PRO	A	173	54.664	47.641	21.751	1.00	0.00
ATOM	2156	CB	PRO	A	173	56.943	46.115	23.812	1.00	0.00
ATOM	2157	CG	PRO	A	173	58.276	45.448	23.788	1.00	0.00
ATOM	2158	CD	PRO	A	173	59.136	46.307	22.901	1.00	0.00
ATOM	2159	HA	PRO	A	173	56.197	45.826	21.759	1.00	0.00
ATOM	2160	1HB	PRO	A	173	56.934	46.963	24.512	1.00	0.00
ATOM	2161	2HB	PRO	A	173	56.155	45.419	24.137	1.00	0.00
ATOM	2162	1HG	PRO	A	173	58.701	45.373	24.800	1.00	0.00
ATOM	2163	2HG	PRO	A	173	58.201	44.423	23.395	1.00	0.00
ATOM	2164	1HD	PRO	A	173	59.632	47.115	23.458	1.00	0.00
ATOM	2165	2HD	PRO	A	173	59.928	45.728	22.402	1.00	0.00
ATOM	2166	N	ARG	A	174	56.134	48.903	22.881	1.00	0.00
ATOM	2167	CA	ARG	A	174	55.262	50.078	22.872	1.00	0.00
ATOM	2168	C	ARG	A	174	54.987	50.646	21.486	1.00	0.00
ATOM	2169	O	ARG	A	174	53.897	51.149	21.232	1.00	0.00
ATOM	2170	CB	ARG	A	174	55.790	51.164	23.798	1.00	0.00
ATOM	2171	CG	ARG	A	174	55.673	50.852	25.281	1.00	0.00
ATOM	2172	CD	ARG	A	174	56.261	51.885	26.172	1.00	0.00
ATOM	2173	NE	ARG	A	174	56.166	51.582	27.591	1.00	0.00
ATOM	2174	CZ	ARG	A	174	56.719	52.323	28.571	1.00	0.00
ATOM	2175	NH1	ARG	A	174	57.438	53.388	28.291	1.00	0.00
ATOM	2176	NH2	ARG	A	174	56.541	51.937	29.822	1.00	0.00
ATOM	2177	H	ARG	A	174	57.038	48.964	23.328	1.00	0.00
ATOM	2178	HA	ARG	A	174	54.278	49.810	23.259	1.00	0.00
ATOM	2179	1HB	ARG	A	174	56.838	51.317	23.544	1.00	0.00
ATOM	2180	2HB	ARG	A	174	55.227	52.071	23.577	1.00	0.00
ATOM	2181	1HG	ARG	A	174	54.617	50.754	25.533	1.00	0.00
ATOM	2182	2HG	ARG	A	174	56.183	49.908	25.478	1.00	0.00
ATOM	2183	1HD	ARG	A	174	57.318	51.998	25.933	1.00	0.00
ATOM	2184	2HD	ARG	A	174	55.747	52.831	26.005	1.00	0.00
ATOM	2185	HE	ARG	A	174	55.700	50.814	28.056	1.00	0.00
ATOM	2186	1HH1	ARG	A	174	57.580	53.659	27.328	1.00	0.00
ATOM	2187	2HH1	ARG	A	174	57.844	53.930	29.039	1.00	0.00
ATOM	2188	1HH2	ARG	A	174	56.000	51.106	30.019	1.00	0.00
ATOM	2189	2HH2	ARG	A	174	56.945	52.474	30.575	1.00	0.00
ATOM	2190	N	LEU	A	175	55.972	50.567	20.598	1.00	0.00
ATOM	2191	CA	LEU	A	175	55.836	51.087	19.242	1.00	0.00
ATOM	2192	C	LEU	A	175	54.991	50.156	18.364	1.00	0.00
ATOM	2193	O	LEU	A	175	54.184	50.624	17.555	1.00	0.00
ATOM	2194	CB	LEU	A	175	57.222	51.297	18.620	1.00	0.00
ATOM	2195	CG	LEU	A	175	58.069	52.398	19.270	1.00	0.00
ATOM	2196	CD1	LEU	A	175	59.466	52.409	18.663	1.00	0.00
ATOM	2197	CD2	LEU	A	175	57.388	53.745	19.078	1.00	0.00
ATOM	2198	H	LEU	A	175	56.841	50.133	20.873	1.00	0.00
ATOM	2199	HA	LEU	A	175	55.310	52.041	19.268	1.00	0.00
ATOM	2200	1HB	LEU	A	175	57.658	50.320	18.825	1.00	0.00
ATOM	2201	2HB	LEU	A	175	57.162	51.449	17.542	1.00	0.00

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ATOM	2202	HG	LEU	A	175	58.104	52.192	20.340	1.00	0.00
ATOM	2203	1HD1	LEU	A	175	60.060	53.194	19.131	1.00	0.00
ATOM	2204	2HD1	LEU	A	175	59.944	51.444	18.833	1.00	0.00
ATOM	2205	3HD1	LEU	A	175	59.396	52.597	17.592	1.00	0.00
ATOM	2206	1HD2	LEU	A	175	57.990	54.527	19.541	1.00	0.00
ATOM	2207	2HD2	LEU	A	175	57.281	53.951	18.012	1.00	0.00
ATOM	2208	3HD2	LEU	A	175	56.402	53.724	19.543	1.00	0.00
ATOM	2209	N	ASP	A	176	55.175	48.844	18.535	1.00	0.00
ATOM	2210	CA	ASP	A	176	54.434	47.833	17.771	1.00	0.00
ATOM	2211	C	ASP	A	176	52.946	47.803	18.108	1.00	0.00
ATOM	2212	O	ASP	A	176	52.108	47.554	17.236	1.00	0.00
ATOM	2213	CB	ASP	A	176	55.039	46.447	18.006	1.00	0.00
ATOM	2214	CG	ASP	A	176	56.294	46.162	17.192	1.00	0.00
ATOM	2215	OD1	ASP	A	176	56.474	46.790	16.175	1.00	0.00
ATOM	2216	OD2	ASP	A	176	57.136	45.439	17.669	1.00	0.00
ATOM	2217	H	ASP	A	176	55.854	48.543	19.220	1.00	0.00
ATOM	2218	HA	ASP	A	176	54.486	48.063	16.706	1.00	0.00
ATOM	2219	1HB	ASP	A	176	55.232	46.230	19.057	1.00	0.00
ATOM	2220	2HB	ASP	A	176	54.224	45.818	17.648	1.00	0.00
ATOM	2221	N	LEU	A	177	52.622	48.036	19.375	1.00	0.00
ATOM	2222	CA	LEU	A	177	51.233	48.047	19.798	1.00	0.00
ATOM	2223	C	LEU	A	177	50.541	49.324	19.316	1.00	0.00
ATOM	2224	O	LEU	A	177	49.340	49.317	19.057	1.00	0.00
ATOM	2225	CB	LEU	A	177	51.141	47.921	21.324	1.00	0.00
ATOM	2226	CG	LEU	A	177	49.721	47.765	21.882	1.00	0.00
ATOM	2227	CD1	LEU	A	177	49.070	46.513	21.310	1.00	0.00
ATOM	2228	CD2	LEU	A	177	49.775	47.699	23.401	1.00	0.00
ATOM	2229	H	LEU	A	177	53.346	48.208	20.058	1.00	0.00
ATOM	2230	HA	LEU	A	177	50.706	47.209	19.343	1.00	0.00
ATOM	2231	1HB	LEU	A	177	51.699	46.996	21.459	1.00	0.00
ATOM	2232	2HB	LEU	A	177	51.660	48.736	21.828	1.00	0.00
ATOM	2233	HG	LEU	A	177	49.164	48.661	21.606	1.00	0.00
ATOM	2234	1HD1	LEU	A	177	48.062	46.410	21.711	1.00	0.00
ATOM	2235	2HD1	LEU	A	177	49.020	46.592	20.224	1.00	0.00
ATOM	2236	3HD1	LEU	A	177	49.660	45.639	21.584	1.00	0.00
ATOM	2237	1HD2	LEU	A	177	48.764	47.589	23.796	1.00	0.00
ATOM	2238	2HD2	LEU	A	177	50.380	46.845	23.707	1.00	0.00
ATOM	2239	3HD2	LEU	A	177	50.218	48.616	23.790	1.00	0.00
ATOM	2240	N	GLN	A	178	51.294	50.416	19.194	1.00	0.00
ATOM	2241	CA	GLN	A	178	50.735	51.676	18.706	1.00	0.00
ATOM	2242	C	GLN	A	178	50.336	51.461	17.244	1.00	0.00
ATOM	2243	O	GLN	A	178	49.221	51.797	16.831	1.00	0.00
ATOM	2244	CB	GLN	A	178	51.741	52.823	18.830	1.00	0.00
ATOM	2245	CG	GLN	A	178	51.209	54.170	18.372	1.00	0.00
ATOM	2246	CD	GLN	A	178	52.230	55.281	18.533	1.00	0.00
ATOM	2247	OE1	GLN	A	178	53.381	55.036	18.906	1.00	0.00
ATOM	2248	NE2	GLN	A	178	51.813	56.511	18.256	1.00	0.00
ATOM	2249	H	GLN	A	178	52.272	50.375	19.443	1.00	0.00
ATOM	2250	HA	GLN	A	178	49.845	51.928	19.282	1.00	0.00
ATOM	2251	1HB	GLN	A	178	52.029	52.877	19.880	1.00	0.00
ATOM	2252	2HB	GLN	A	178	52.609	52.547	18.231	1.00	0.00
ATOM	2253	1HG	GLN	A	178	50.709	54.312	17.415	1.00	0.00
ATOM	2254	2HG	GLN	A	178	50.479	54.254	19.178	1.00	0.00
ATOM	2255	1HE2	GLN	A	178	52.442	57.285	18.344	1.00	0.00
ATOM	2256	2HE2	GLN	A	178	50.871	56.665	17.958	1.00	0.00
ATOM	2257	N	GLU	A	179	51.276	50.916	16.469	1.00	0.00
ATOM	2258	CA	GLU	A	179	51.075	50.637	15.052	1.00	0.00
ATOM	2259	C	GLU	A	179	49.793	49.849	14.816	1.00	0.00
ATOM	2260	O	GLU	A	179	48.936	50.275	14.041	1.00	0.00
ATOM	2261	CB	GLU	A	179	52.272	49.873	14.483	1.00	0.00
ATOM	2262	CG	GLU	A	179	53.536	50.707	14.329	1.00	0.00
ATOM	2263	CD	GLU	A	179	54.668	49.888	13.776	1.00	0.00
ATOM	2264	OE1	GLU	A	179	54.492	48.705	13.604	1.00	0.00

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ATOM	2265	OE2	GLU	A	179	55.670	50.461	13.418	1.00	0.00
ATOM	2266	H	GLU	A	179	52.164	50.690	16.894	1.00	0.00
ATOM	2267	HA	GLU	A	179	50.966	51.573	14.503	1.00	0.00
ATOM	2268	1HB	GLU	A	179	52.469	49.040	15.159	1.00	0.00
ATOM	2269	2HB	GLU	A	179	51.971	49.487	13.509	1.00	0.00
ATOM	2270	1HG	GLU	A	179	53.396	51.595	13.713	1.00	0.00
ATOM	2271	2HG	GLU	A	179	53.770	51.008	15.349	1.00	0.00
ATOM	2272	N	ILE	A	180	49.659	48.703	15.479	1.00	0.00
ATOM	2273	CA	ILE	A	180	48.467	47.884	15.315	1.00	0.00
ATOM	2274	C	ILE	A	180	47.186	48.675	15.602	1.00	0.00
ATOM	2275	O	ILE	A	180	46.281	48.714	14.766	1.00	0.00
ATOM	2276	CB	ILE	A	180	48.512	46.648	16.231	1.00	0.00
ATOM	2277	CG1	ILE	A	180	49.624	45.694	15.787	1.00	0.00
ATOM	2278	CG2	ILE	A	180	47.167	45.938	16.233	1.00	0.00
ATOM	2279	CD1	ILE	A	180	49.922	44.597	16.783	1.00	0.00
ATOM	2280	H	ILE	A	180	50.388	48.391	16.105	1.00	0.00
ATOM	2281	HA	ILE	A	180	48.358	47.568	14.278	1.00	0.00
ATOM	2282	HB	ILE	A	180	48.757	46.965	17.244	1.00	0.00
ATOM	2283	1HG1	ILE	A	180	49.313	45.251	14.841	1.00	0.00
ATOM	2284	2HG1	ILE	A	180	50.521	46.293	15.628	1.00	0.00
ATOM	2285	1HG2	ILE	A	180	47.216	45.066	16.885	1.00	0.00
ATOM	2286	2HG2	ILE	A	180	46.397	46.618	16.596	1.00	0.00
ATOM	2287	3HG2	ILE	A	180	46.922	45.619	15.220	1.00	0.00
ATOM	2288	1HD1	ILE	A	180	50.721	43.962	16.398	1.00	0.00
ATOM	2289	2HD1	ILE	A	180	50.235	45.039	17.730	1.00	0.00
ATOM	2290	3HD1	ILE	A	180	49.028	43.996	16.942	1.00	0.00
ATOM	2291	N	ASN	A	181	47.114	49.313	16.770	1.00	0.00
ATOM	2292	CA	ASN	A	181	45.937	50.105	17.141	1.00	0.00
ATOM	2293	C	ASN	A	181	45.595	51.202	16.143	1.00	0.00
ATOM	2294	O	ASN	A	181	44.425	51.492	15.920	1.00	0.00
ATOM	2295	CB	ASN	A	181	46.109	50.715	18.520	1.00	0.00
ATOM	2296	CG	ASN	A	181	45.992	49.720	19.641	1.00	0.00
ATOM	2297	OD1	ASN	A	181	45.452	48.621	19.469	1.00	0.00
ATOM	2298	ND2	ASN	A	181	46.422	50.129	20.807	1.00	0.00
ATOM	2299	H	ASN	A	181	47.888	49.250	17.416	1.00	0.00
ATOM	2300	HA	ASN	A	181	45.054	49.465	17.167	1.00	0.00
ATOM	2301	1HB	ASN	A	181	46.936	51.395	18.730	1.00	0.00
ATOM	2302	2HB	ASN	A	181	45.181	51.282	18.455	1.00	0.00
ATOM	2303	1HD2	ASN	A	181	46.375	49.520	21.599	1.00	0.00
ATOM	2304	2HD2	ASN	A	181	46.796	51.051	20.906	1.00	0.00
ATOM	2305	N	ASN	A	182	46.602	51.832	15.557	1.00	0.00
ATOM	2306	CA	ASN	A	182	46.319	52.868	14.581	1.00	0.00
ATOM	2307	C	ASN	A	182	45.770	52.215	13.321	1.00	0.00
ATOM	2308	O	ASN	A	182	44.932	52.792	12.627	1.00	0.00
ATOM	2309	CB	ASN	A	182	47.544	53.707	14.268	1.00	0.00
ATOM	2310	CG	ASN	A	182	47.939	54.640	15.379	1.00	0.00
ATOM	2311	OD1	ASN	A	182	47.129	54.980	16.249	1.00	0.00
ATOM	2312	ND2	ASN	A	182	49.155	55.119	15.308	1.00	0.00
ATOM	2313	H	ASN	A	182	47.563	51.609	15.773	1.00	0.00
ATOM	2314	HA	ASN	A	182	45.556	53.544	14.970	1.00	0.00
ATOM	2315	1HB	ASN	A	182	48.441	53.250	13.848	1.00	0.00
ATOM	2316	2HB	ASN	A	182	47.033	54.280	13.494	1.00	0.00
ATOM	2317	1HD2	ASN	A	182	49.486	55.746	16.014	1.00	0.00
ATOM	2318	2HD2	ASN	A	182	49.752	54.858	14.550	1.00	0.00
ATOM	2319	N	TRP	A	183	46.233	50.998	13.045	1.00	0.00
ATOM	2320	CA	TRP	A	183	45.786	50.243	11.877	1.00	0.00
ATOM	2321	C	TRP	A	183	44.315	49.809	12.016	1.00	0.00
ATOM	2322	O	TRP	A	183	43.505	50.044	11.122	1.00	0.00
ATOM	2323	CB	TRP	A	183	46.681	49.041	11.582	1.00	0.00
ATOM	2324	CG	TRP	A	183	46.270	48.438	10.259	1.00	0.00
ATOM	2325	CD1	TRP	A	183	46.674	48.858	8.984	1.00	0.00
ATOM	2326	CD2	TRP	A	183	45.377	47.328	10.023	1.00	0.00
ATOM	2327	NE1	TRP	A	183	46.100	48.093	8.016	1.00	0.00

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ATOM	2328	CE2	TRP	A	183	45.294	47.137	8.625	1.00	0.00
ATOM	2329	CE3	TRP	A	183	44.660	46.496	10.873	1.00	0.00
ATOM	2330	CZ2	TRP	A	183	44.492	46.122	8.117	1.00	0.00
ATOM	2331	CZ3	TRP	A	183	43.862	45.485	10.354	1.00	0.00
ATOM	2332	CH2	TRP	A	183	43.781	45.298	8.980	1.00	0.00
ATOM	2333	H	TRP	A	183	46.915	50.586	13.665	1.00	0.00
ATOM	2334	HA	TRP	A	183	45.838	50.872	10.988	1.00	0.00
ATOM	2335	1HB	TRP	A	183	47.724	49.353	11.522	1.00	0.00
ATOM	2336	2HB	TRP	A	183	46.571	48.290	12.364	1.00	0.00
ATOM	2337	HD1	TRP	A	183	47.361	49.701	8.938	1.00	0.00
ATOM	2338	HE1	TRP	A	183	46.237	48.202	7.021	1.00	0.00
ATOM	2339	HE3	TRP	A	183	44.707	46.612	11.955	1.00	0.00
ATOM	2340	HZ2	TRP	A	183	44.435	45.987	7.037	1.00	0.00
ATOM	2341	HZ3	TRP	A	183	43.303	44.845	11.037	1.00	0.00
ATOM	2342	HH2	TRP	A	183	43.158	44.503	8.569	1.00	0.00
ATOM	2343	N	VAL	A	184	43.967	49.172	13.133	1.00	0.00
ATOM	2344	CA	VAL	A	184	42.587	48.744	13.330	1.00	0.00
ATOM	2345	C	VAL	A	184	41.736	49.955	13.648	1.00	0.00
ATOM	2346	O	VAL	A	184	40.558	49.821	13.972	1.00	0.00
ATOM	2347	CB	VAL	A	184	42.499	47.745	14.486	1.00	0.00
ATOM	2348	CG1	VAL	A	184	43.445	46.577	14.246	1.00	0.00
ATOM	2349	CG2	VAL	A	184	42.775	48.407	15.839	1.00	0.00
ATOM	2350	H	VAL	A	184	44.649	48.979	13.852	1.00	0.00
ATOM	2351	HA	VAL	A	184	42.173	48.308	12.420	1.00	0.00
ATOM	2352	HB	VAL	A	184	41.482	47.355	14.541	1.00	0.00
ATOM	2353	1HG1	VAL	A	184	43.372	45.873	15.076	1.00	0.00
ATOM	2354	2HG1	VAL	A	184	43.173	46.073	13.319	1.00	0.00
ATOM	2355	3HG1	VAL	A	184	44.468	46.946	14.173	1.00	0.00
ATOM	2356	1HG2	VAL	A	184	42.701	47.662	16.631	1.00	0.00
ATOM	2357	2HG2	VAL	A	184	43.777	48.836	15.835	1.00	0.00
ATOM	2358	3HG2	VAL	A	184	42.043	49.196	16.015	1.00	0.00
ATOM	2359	N	GLN	A	185	42.339	51.138	13.577	1.00	0.00
ATOM	2360	CA	GLN	A	185	41.602	52.362	13.847	1.00	0.00
ATOM	2361	C	GLN	A	185	41.220	52.979	12.520	1.00	0.00
ATOM	2362	O	GLN	A	185	40.049	53.264	12.277	1.00	0.00
ATOM	2363	CB	GLN	A	185	42.433	53.346	14.675	1.00	0.00
ATOM	2364	CG	GLN	A	185	41.709	54.637	15.018	1.00	0.00
ATOM	2365	CD	GLN	A	185	42.520	55.527	15.941	1.00	0.00
ATOM	2366	OE1	GLN	A	185	43.623	55.168	16.362	1.00	0.00
ATOM	2367	NE2	GLN	A	185	41.975	56.694	16.264	1.00	0.00
ATOM	2368	H	GLN	A	185	43.318	51.196	13.334	1.00	0.00
ATOM	2369	HA	GLN	A	185	40.690	52.126	14.396	1.00	0.00
ATOM	2370	1HB	GLN	A	185	42.716	52.827	15.590	1.00	0.00
ATOM	2371	2HB	GLN	A	185	43.328	53.569	14.093	1.00	0.00
ATOM	2372	1HG	GLN	A	185	41.246	55.272	14.263	1.00	0.00
ATOM	2373	2HG	GLN	A	185	40.932	54.147	15.606	1.00	0.00
ATOM	2374	1HE2	GLN	A	185	42.463	57.324	16.870	1.00	0.00
ATOM	2375	2HE2	GLN	A	185	41.078	56.946	15.902	1.00	0.00
ATOM	2376	N	ALA	A	186	42.214	53.182	11.660	1.00	0.00
ATOM	2377	CA	ALA	A	186	41.965	53.742	10.337	1.00	0.00
ATOM	2378	C	ALA	A	186	40.972	52.818	9.630	1.00	0.00
ATOM	2379	O	ALA	A	186	40.074	53.272	8.921	1.00	0.00
ATOM	2380	CB	ALA	A	186	43.259	53.795	9.525	1.00	0.00
ATOM	2381	H	ALA	A	186	43.160	52.945	11.924	1.00	0.00
ATOM	2382	HA	ALA	A	186	41.525	54.733	10.454	1.00	0.00
ATOM	2383	1HB	ALA	A	186	43.053	54.216	8.541	1.00	0.00
ATOM	2384	2HB	ALA	A	186	43.988	54.420	10.041	1.00	0.00
ATOM	2385	3HB	ALA	A	186	43.659	52.789	9.412	1.00	0.00
ATOM	2386	N	GLN	A	187	41.142	51.519	9.863	1.00	0.00
ATOM	2387	CA	GLN	A	187	40.308	50.480	9.279	1.00	0.00
ATOM	2388	C	GLN	A	187	38.869	50.539	9.755	1.00	0.00
ATOM	2389	O	GLN	A	187	37.938	50.649	8.956	1.00	0.00
ATOM	2390	CB	GLN	A	187	40.889	49.100	9.599	1.00	0.00

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ATOM	2391	CG	GLN	A	187	42.185	48.787	8.872	1.00	0.00
ATOM	2392	CD	GLN	A	187	42.005	48.722	7.367	1.00	0.00
ATOM	2393	OE1	GLN	A	187	41.075	48.083	6.867	1.00	0.00
ATOM	2394	NE2	GLN	A	187	42.897	49.380	6.636	1.00	0.00
ATOM	2395	H	GLN	A	187	41.896	51.255	10.481	1.00	0.00
ATOM	2396	HA	GLN	A	187	40.262	50.613	8.198	1.00	0.00
ATOM	2397	1HB	GLN	A	187	41.052	49.069	10.676	1.00	0.00
ATOM	2398	2HB	GLN	A	187	40.128	48.368	9.326	1.00	0.00
ATOM	2399	1HG	GLN	A	187	43.117	49.314	9.075	1.00	0.00
ATOM	2400	2HG	GLN	A	187	42.256	47.768	9.255	1.00	0.00
ATOM	2401	1HE2	GLN	A	187	42.829	49.373	5.638	1.00	0.00
ATOM	2402	2HE2	GLN	A	187	43.636	49.884	7.083	1.00	0.00
ATOM	2403	N	MET	A	188	38.694	50.453	11.067	1.00	0.00
ATOM	2404	CA	MET	A	188	37.366	50.481	11.657	1.00	0.00
ATOM	2405	C	MET	A	188	36.811	51.895	11.836	1.00	0.00
ATOM	2406	O	MET	A	188	35.849	52.103	12.581	1.00	0.00
ATOM	2407	CB	MET	A	188	37.393	49.760	13.003	1.00	0.00
ATOM	2408	CG	MET	A	188	37.681	48.268	12.913	1.00	0.00
ATOM	2409	SD	MET	A	188	36.363	47.355	12.085	1.00	0.00
ATOM	2410	CE	MET	A	188	37.062	47.162	10.448	1.00	0.00
ATOM	2411	H	MET	A	188	39.499	50.366	11.671	1.00	0.00
ATOM	2412	HA	MET	A	188	36.657	49.979	10.999	1.00	0.00
ATOM	2413	1HB	MET	A	188	38.162	50.242	13.606	1.00	0.00
ATOM	2414	2HB	MET	A	188	36.418	49.914	13.466	1.00	0.00
ATOM	2415	1HG	MET	A	188	38.611	48.134	12.360	1.00	0.00
ATOM	2416	2HG	MET	A	188	37.801	47.884	13.925	1.00	0.00
ATOM	2417	1HE	MET	A	188	36.363	46.614	9.816	1.00	0.00
ATOM	2418	2HE	MET	A	188	37.251	48.145	10.015	1.00	0.00
ATOM	2419	3HE	MET	A	188	38.000	46.609	10.516	1.00	0.00
ATOM	2420	N	LYS	A	189	37.406	52.857	11.133	1.00	0.00
ATOM	2421	CA	LYS	A	189	36.991	54.253	11.231	1.00	0.00
ATOM	2422	C	LYS	A	189	36.778	54.632	12.684	1.00	0.00
ATOM	2423	O	LYS	A	189	35.858	55.381	13.011	1.00	0.00
ATOM	2424	CB	LYS	A	189	35.715	54.502	10.426	1.00	0.00
ATOM	2425	CG	LYS	A	189	35.820	54.138	8.951	1.00	0.00
ATOM	2426	CD	LYS	A	189	36.832	55.020	8.234	1.00	0.00
ATOM	2427	CE	LYS	A	189	36.910	54.683	6.753	1.00	0.00
ATOM	2428	NZ	LYS	A	189	37.983	55.449	6.063	1.00	0.00
ATOM	2429	H	LYS	A	189	38.166	52.612	10.515	1.00	0.00
ATOM	2430	HA	LYS	A	189	37.776	54.900	10.839	1.00	0.00
ATOM	2431	1HB	LYS	A	189	34.924	53.911	10.890	1.00	0.00
ATOM	2432	2HB	LYS	A	189	35.477	55.562	10.521	1.00	0.00
ATOM	2433	1HG	LYS	A	189	36.127	53.094	8.873	1.00	0.00
ATOM	2434	2HG	LYS	A	189	34.840	54.263	8.492	1.00	0.00
ATOM	2435	1HD	LYS	A	189	36.532	56.062	8.356	1.00	0.00
ATOM	2436	2HD	LYS	A	189	37.810	54.869	8.692	1.00	0.00
ATOM	2437	1HE	LYS	A	189	37.106	53.616	6.655	1.00	0.00
ATOM	2438	2HE	LYS	A	189	35.948	54.918	6.298	1.00	0.00
ATOM	2439	1HZ	LYS	A	189	38.001	55.198	5.085	1.00	0.00
ATOM	2440	2HZ	LYS	A	189	37.801	56.439	6.153	1.00	0.00
ATOM	2441	3HZ	LYS	A	189	38.875	55.231	6.484	1.00	0.00
ATOM	2442	N	GLY	A	190	37.632	54.092	13.550	1.00	0.00
ATOM	2443	CA	GLY	A	190	37.552	54.370	14.972	1.00	0.00
ATOM	2444	C	GLY	A	190	36.262	53.956	15.659	1.00	0.00
ATOM	2445	O	GLY	A	190	35.708	54.732	16.431	1.00	0.00
ATOM	2446	H	GLY	A	190	38.354	53.473	13.210	1.00	0.00
ATOM	2447	1HA	GLY	A	190	38.359	53.845	15.484	1.00	0.00
ATOM	2448	2HA	GLY	A	190	37.659	55.442	15.132	1.00	0.00
ATOM	2449	N	LYS	A	191	35.781	52.742	15.395	1.00	0.00
ATOM	2450	CA	LYS	A	191	34.553	52.254	16.023	1.00	0.00
ATOM	2451	C	LYS	A	191	34.835	51.041	16.921	1.00	0.00
ATOM	2452	O	LYS	A	191	33.916	50.385	17.419	1.00	0.00
ATOM	2453	CB	LYS	A	191	33.516	51.894	14.958	1.00	0.00

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ATOM	2454	CG	LYS	A	191	33.127	53.047	14.043	1.00	0.00
ATOM	2455	CD	LYS	A	191	32.436	54.160	14.817	1.00	0.00
ATOM	2456	CE	LYS	A	191	32.044	55.311	13.903	1.00	0.00
ATOM	2457	NZ	LYS	A	191	31.411	56.428	14.655	1.00	0.00
ATOM	2458	H	LYS	A	191	36.274	52.144	14.747	1.00	0.00
ATOM	2459	HA	LYS	A	191	34.136	53.028	16.668	1.00	0.00
ATOM	2460	1HB	LYS	A	191	33.938	51.084	14.362	1.00	0.00
ATOM	2461	2HB	LYS	A	191	32.630	51.534	15.483	1.00	0.00
ATOM	2462	1HG	LYS	A	191	34.032	53.438	13.575	1.00	0.00
ATOM	2463	2HG	LYS	A	191	32.456	52.668	13.274	1.00	0.00
ATOM	2464	1HD	LYS	A	191	31.542	53.750	15.290	1.00	0.00
ATOM	2465	2HD	LYS	A	191	33.117	54.523	15.586	1.00	0.00
ATOM	2466	1HE	LYS	A	191	32.943	55.673	13.405	1.00	0.00
ATOM	2467	2HE	LYS	A	191	31.345	54.933	13.158	1.00	0.00
ATOM	2468	1HZ	LYS	A	191	31.166	57.170	14.014	1.00	0.00
ATOM	2469	2HZ	LYS	A	191	30.576	56.093	15.116	1.00	0.00
ATOM	2470	3HZ	LYS	A	191	32.059	56.780	15.345	1.00	0.00
ATOM	2471	N	LEU	A	192	36.117	50.751	17.120	1.00	0.00
ATOM	2472	CA	LEU	A	192	36.542	49.641	17.962	1.00	0.00
ATOM	2473	C	LEU	A	192	37.522	50.150	19.008	1.00	0.00
ATOM	2474	O	LEU	A	192	38.453	50.896	18.696	1.00	0.00
ATOM	2475	CB	LEU	A	192	37.175	48.529	17.117	1.00	0.00
ATOM	2476	CG	LEU	A	192	37.935	47.458	17.911	1.00	0.00
ATOM	2477	CD1	LEU	A	192	36.952	46.508	18.579	1.00	0.00
ATOM	2478	CD2	LEU	A	192	38.869	46.700	16.978	1.00	0.00
ATOM	2479	H	LEU	A	192	36.817	51.323	16.670	1.00	0.00
ATOM	2480	HA	LEU	A	192	35.680	49.231	18.488	1.00	0.00
ATOM	2481	1HB	LEU	A	192	36.273	48.101	16.682	1.00	0.00
ATOM	2482	2HB	LEU	A	192	37.804	48.933	16.324	1.00	0.00
ATOM	2483	HG	LEU	A	192	38.549	47.976	18.648	1.00	0.00
ATOM	2484	1HD1	LEU	A	192	37.501	45.751	19.141	1.00	0.00
ATOM	2485	2HD1	LEU	A	192	36.310	47.067	19.259	1.00	0.00
ATOM	2486	3HD1	LEU	A	192	36.341	46.022	17.819	1.00	0.00
ATOM	2487	1HD2	LEU	A	192	39.409	45.940	17.544	1.00	0.00
ATOM	2488	2HD2	LEU	A	192	38.287	46.222	16.190	1.00	0.00
ATOM	2489	3HD2	LEU	A	192	39.581	47.395	16.532	1.00	0.00
ATOM	2490	N	ALA	A	193	37.313	49.725	20.247	1.00	0.00
ATOM	2491	CA	ALA	A	193	38.160	50.129	21.362	1.00	0.00
ATOM	2492	C	ALA	A	193	39.641	49.826	21.134	1.00	0.00
ATOM	2493	O	ALA	A	193	40.017	48.666	20.951	1.00	0.00
ATOM	2494	CB	ALA	A	193	37.711	49.443	22.653	1.00	0.00
ATOM	2495	H	ALA	A	193	36.539	49.100	20.419	1.00	0.00
ATOM	2496	HA	ALA	A	193	38.088	51.210	21.482	1.00	0.00
ATOM	2497	1HB	ALA	A	193	38.355	49.757	23.474	1.00	0.00
ATOM	2498	2HB	ALA	A	193	36.680	49.721	22.874	1.00	0.00
ATOM	2499	3HB	ALA	A	193	37.778	48.363	22.533	1.00	0.00
ATOM	2500	N	ARG	A	194	40.478	50.864	21.144	1.00	0.00
ATOM	2501	CA	ARG	A	194	41.916	50.675	20.972	1.00	0.00
ATOM	2502	C	ARG	A	194	42.370	49.704	22.065	1.00	0.00
ATOM	2503	O	ARG	A	194	42.219	49.984	23.252	1.00	0.00
ATOM	2504	CB	ARG	A	194	42.702	51.978	20.979	1.00	0.00
ATOM	2505	CG	ARG	A	194	42.474	52.869	19.769	1.00	0.00
ATOM	2506	CD	ARG	A	194	43.244	54.139	19.790	1.00	0.00
ATOM	2507	NE	ARG	A	194	42.844	55.069	20.834	1.00	0.00
ATOM	2508	CZ	ARG	A	194	43.525	56.182	21.170	1.00	0.00
ATOM	2509	NH1	ARG	A	194	44.657	56.488	20.575	1.00	0.00
ATOM	2510	NH2	ARG	A	194	43.038	56.946	22.131	1.00	0.00
ATOM	2511	H	ARG	A	194	40.116	51.798	21.272	1.00	0.00
ATOM	2512	HA	ARG	A	194	42.116	50.235	19.994	1.00	0.00
ATOM	2513	1HB	ARG	A	194	42.417	52.517	21.881	1.00	0.00
ATOM	2514	2HB	ARG	A	194	43.758	51.711	21.034	1.00	0.00
ATOM	2515	1HG	ARG	A	194	42.761	52.318	18.873	1.00	0.00
ATOM	2516	2HG	ARG	A	194	41.414	53.119	19.718	1.00	0.00

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ATOM	2517	1HD	ARG	A	194	44.299	53.911	19.942	1.00	0.00
ATOM	2518	2HD	ARG	A	194	43.116	54.646	18.835	1.00	0.00
ATOM	2519	HE	ARG	A	194	42.040	55.043	21.447	1.00	0.00
ATOM	2520	1HH1	ARG	A	194	45.026	55.884	19.854	1.00	0.00
ATOM	2521	2HH1	ARG	A	194	45.152	57.327	20.841	1.00	0.00
ATOM	2522	1HH2	ARG	A	194	42.176	56.686	22.591	1.00	0.00
ATOM	2523	2HH2	ARG	A	194	43.528	57.785	22.403	1.00	0.00
ATOM	2524	N	SER	A	195	42.914	48.562	21.657	1.00	0.00
ATOM	2525	CA	SER	A	195	43.366	47.535	22.591	1.00	0.00
ATOM	2526	C	SER	A	195	44.574	47.915	23.435	1.00	0.00
ATOM	2527	O	SER	A	195	45.274	48.885	23.156	1.00	0.00
ATOM	2528	CB	SER	A	195	43.671	46.265	21.820	1.00	0.00
ATOM	2529	OG	SER	A	195	42.534	45.749	21.185	1.00	0.00
ATOM	2530	H	SER	A	195	43.016	48.404	20.665	1.00	0.00
ATOM	2531	HA	SER	A	195	42.587	47.202	23.278	1.00	0.00
ATOM	2532	1HB	SER	A	195	44.428	46.488	21.068	1.00	0.00
ATOM	2533	2HB	SER	A	195	44.059	45.520	22.514	1.00	0.00
ATOM	2534	HG	SER	A	195	41.865	45.547	21.842	1.00	0.00
ATOM	2535	N	THR	A	196	44.811	47.117	24.468	1.00	0.00
ATOM	2536	CA	THR	A	196	45.923	47.331	25.382	1.00	0.00
ATOM	2537	C	THR	A	196	46.253	46.024	26.103	1.00	0.00
ATOM	2538	O	THR	A	196	46.258	45.958	27.334	1.00	0.00
ATOM	2539	CB	THR	A	196	45.612	48.428	26.417	1.00	0.00
ATOM	2540	OG1	THR	A	196	45.329	49.660	25.742	1.00	0.00
ATOM	2541	CG2	THR	A	196	46.792	48.627	27.355	1.00	0.00
ATOM	2542	H	THR	A	196	44.193	46.333	24.620	1.00	0.00
ATOM	2543	HA	THR	A	196	46.810	47.627	24.821	1.00	0.00
ATOM	2544	HB	THR	A	196	44.736	48.131	26.995	1.00	0.00
ATOM	2545	HG1	THR	A	196	46.093	49.920	25.220	1.00	0.00
ATOM	2546	1HG2	THR	A	196	46.553	49.405	28.079	1.00	0.00
ATOM	2547	2HG2	THR	A	196	47.002	47.694	27.879	1.00	0.00
ATOM	2548	3HG2	THR	A	196	47.668	48.924	26.779	1.00	0.00
ATOM	2549	N	LYS	A	197	46.523	44.982	25.322	1.00	0.00
ATOM	2550	CA	LYS	A	197	46.844	43.671	25.873	1.00	0.00
ATOM	2551	C	LYS	A	197	48.343	43.395	25.794	1.00	0.00
ATOM	2552	O	LYS	A	197	48.843	42.454	26.417	1.00	0.00
ATOM	2553	CB	LYS	A	197	46.066	42.577	25.140	1.00	0.00
ATOM	2554	CG	LYS	A	197	44.553	42.728	25.207	1.00	0.00
ATOM	2555	CD	LYS	A	197	44.050	42.633	26.640	1.00	0.00
ATOM	2556	CE	LYS	A	197	42.531	42.697	26.700	1.00	0.00
ATOM	2557	NZ	LYS	A	197	42.029	42.695	28.100	1.00	0.00
ATOM	2558	H	LYS	A	197	46.505	45.103	24.319	1.00	0.00
ATOM	2559	HA	LYS	A	197	46.576	43.639	26.930	1.00	0.00
ATOM	2560	1HB	LYS	A	197	46.387	42.601	24.098	1.00	0.00
ATOM	2561	2HB	LYS	A	197	46.355	41.625	25.586	1.00	0.00
ATOM	2562	1HG	LYS	A	197	44.283	43.700	24.790	1.00	0.00
ATOM	2563	2HG	LYS	A	197	44.099	41.939	24.609	1.00	0.00
ATOM	2564	1HD	LYS	A	197	44.392	41.689	27.066	1.00	0.00
ATOM	2565	2HD	LYS	A	197	44.470	43.461	27.211	1.00	0.00
ATOM	2566	1HE	LYS	A	197	42.207	43.608	26.199	1.00	0.00
ATOM	2567	2HE	LYS	A	197	42.132	41.832	26.170	1.00	0.00
ATOM	2568	1HZ	LYS	A	197	41.019	42.738	28.096	1.00	0.00
ATOM	2569	2HZ	LYS	A	197	42.328	41.849	28.565	1.00	0.00
ATOM	2570	3HZ	LYS	A	197	42.397	43.497	28.591	1.00	0.00
ATOM	2571	N	GLU	A	198	49.051	44.222	25.029	1.00	0.00
ATOM	2572	CA	GLU	A	198	50.495	44.081	24.859	1.00	0.00
ATOM	2573	C	GLU	A	198	50.819	42.839	24.045	1.00	0.00
ATOM	2574	O	GLU	A	198	50.637	41.712	24.507	1.00	0.00
ATOM	2575	CB	GLU	A	198	51.197	44.019	26.217	1.00	0.00
ATOM	2576	CG	GLU	A	198	51.131	45.312	27.018	1.00	0.00
ATOM	2577	CD	GLU	A	198	51.858	45.180	28.328	1.00	0.00
ATOM	2578	OE1	GLU	A	198	52.389	44.127	28.588	1.00	0.00
ATOM	2579	OE2	GLU	A	198	51.979	46.165	29.018	1.00	0.00

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ATOM	2580	H	GLU	A	198	48.570	44.971	24.552	1.00	0.00
ATOM	2581	HA	GLU	A	198	50.887	44.935	24.305	1.00	0.00
ATOM	2582	1HB	GLU	A	198	50.725	43.217	26.784	1.00	0.00
ATOM	2583	2HB	GLU	A	198	52.240	43.764	26.026	1.00	0.00
ATOM	2584	1HG	GLU	A	198	51.513	46.177	26.478	1.00	0.00
ATOM	2585	2HG	GLU	A	198	50.067	45.443	27.206	1.00	0.00
ATOM	2586	N	ILE	A	199	51.302	43.052	22.828	1.00	0.00
ATOM	2587	CA	ILE	A	199	51.653	41.945	21.957	1.00	0.00
ATOM	2588	C	ILE	A	199	52.517	40.939	22.704	1.00	0.00
ATOM	2589	O	ILE	A	199	53.329	41.306	23.554	1.00	0.00
ATOM	2590	CB	ILE	A	199	52.398	42.425	20.698	1.00	0.00
ATOM	2591	CG1	ILE	A	199	53.687	43.154	21.086	1.00	0.00
ATOM	2592	CG2	ILE	A	199	51.504	43.327	19.862	1.00	0.00
ATOM	2593	CD1	ILE	A	199	54.583	43.478	19.912	1.00	0.00
ATOM	2594	H	ILE	A	199	51.429	43.998	22.497	1.00	0.00
ATOM	2595	HA	ILE	A	199	50.762	41.393	21.660	1.00	0.00
ATOM	2596	HB	ILE	A	199	52.694	41.558	20.108	1.00	0.00
ATOM	2597	1HG1	ILE	A	199	53.399	44.077	21.589	1.00	0.00
ATOM	2598	2HG1	ILE	A	199	54.224	42.513	21.786	1.00	0.00
ATOM	2599	1HG2	ILE	A	199	52.046	43.658	18.977	1.00	0.00
ATOM	2600	2HG2	ILE	A	199	50.614	42.777	19.558	1.00	0.00
ATOM	2601	3HG2	ILE	A	199	51.209	44.195	20.452	1.00	0.00
ATOM	2602	1HD1	ILE	A	199	55.476	43.993	20.266	1.00	0.00
ATOM	2603	2HD1	ILE	A	199	54.873	42.554	19.409	1.00	0.00
ATOM	2604	3HD1	ILE	A	199	54.049	44.119	19.212	1.00	0.00
ATOM	2605	N	PRO	A	200	52.336	39.647	22.403	1.00	0.00
ATOM	2606	CA	PRO	A	200	53.093	38.560	23.035	1.00	0.00
ATOM	2607	C	PRO	A	200	54.599	38.697	22.804	1.00	0.00
ATOM	2608	O	PRO	A	200	55.037	39.198	21.764	1.00	0.00
ATOM	2609	CB	PRO	A	200	52.529	37.292	22.387	1.00	0.00
ATOM	2610	CG	PRO	A	200	51.165	37.683	21.930	1.00	0.00
ATOM	2611	CD	PRO	A	200	51.291	39.113	21.477	1.00	0.00
ATOM	2612	HA	PRO	A	200	52.984	38.546	24.130	1.00	0.00
ATOM	2613	1HB	PRO	A	200	53.152	36.960	21.543	1.00	0.00
ATOM	2614	2HB	PRO	A	200	52.485	36.458	23.103	1.00	0.00
ATOM	2615	1HG	PRO	A	200	50.820	37.037	21.109	1.00	0.00
ATOM	2616	2HG	PRO	A	200	50.431	37.589	22.744	1.00	0.00
ATOM	2617	1HD	PRO	A	200	51.594	39.191	20.422	1.00	0.00
ATOM	2618	2HD	PRO	A	200	50.346	39.667	21.581	1.00	0.00
ATOM	2619	N	ASP	A	201	55.389	38.253	23.775	1.00	0.00
ATOM	2620	CA	ASP	A	201	56.838	38.330	23.645	1.00	0.00
ATOM	2621	C	ASP	A	201	57.265	37.473	22.453	1.00	0.00
ATOM	2622	O	ASP	A	201	58.028	37.918	21.590	1.00	0.00
ATOM	2623	CB	ASP	A	201	57.534	37.866	24.927	1.00	0.00
ATOM	2624	CG	ASP	A	201	57.422	38.840	26.092	1.00	0.00
ATOM	2625	OD1	ASP	A	201	57.024	39.959	25.869	1.00	0.00
ATOM	2626	OD2	ASP	A	201	57.582	38.417	27.211	1.00	0.00
ATOM	2627	H	ASP	A	201	54.991	37.857	24.614	1.00	0.00
ATOM	2628	HA	ASP	A	201	57.137	39.360	23.447	1.00	0.00
ATOM	2629	1HB	ASP	A	201	57.225	36.873	25.254	1.00	0.00
ATOM	2630	2HB	ASP	A	201	58.568	37.831	24.582	1.00	0.00
ATOM	2631	N	GLU	A	202	56.761	36.244	22.402	1.00	0.00
ATOM	2632	CA	GLU	A	202	57.094	35.340	21.311	1.00	0.00
ATOM	2633	C	GLU	A	202	56.030	35.429	20.214	1.00	0.00
ATOM	2634	O	GLU	A	202	54.861	35.108	20.447	1.00	0.00
ATOM	2635	CB	GLU	A	202	57.222	33.902	21.820	1.00	0.00
ATOM	2636	CG	GLU	A	202	57.590	32.886	20.748	1.00	0.00
ATOM	2637	CD	GLU	A	202	57.711	31.503	21.325	1.00	0.00
ATOM	2638	OE1	GLU	A	202	57.500	31.352	22.504	1.00	0.00
ATOM	2639	OE2	GLU	A	202	57.903	30.581	20.568	1.00	0.00
ATOM	2640	H	GLU	A	202	56.136	35.928	23.130	1.00	0.00
ATOM	2641	HA	GLU	A	202	58.044	35.635	20.863	1.00	0.00
ATOM	2642	1HB	GLU	A	202	57.989	33.906	22.594	1.00	0.00

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ATOM	2643	2HB	GLU	A	202	56.262	33.633	22.260	1.00	0.00
ATOM	2644	1HG	GLU	A	202	56.894	32.870	19.909	1.00	0.00
ATOM	2645	2HG	GLU	A	202	58.566	33.222	20.402	1.00	0.00
ATOM	2646	N	ILE	A	203	56.440	35.890	19.031	1.00	0.00
ATOM	2647	CA	ILE	A	203	55.547	36.017	17.880	1.00	0.00
ATOM	2648	C	ILE	A	203	56.270	35.595	16.610	1.00	0.00
ATOM	2649	O	ILE	A	203	57.364	36.082	16.325	1.00	0.00
ATOM	2650	CB	ILE	A	203	55.062	37.464	17.675	1.00	0.00
ATOM	2651	CG1	ILE	A	203	54.204	37.983	18.822	1.00	0.00
ATOM	2652	CG2	ILE	A	203	54.309	37.615	16.349	1.00	0.00
ATOM	2653	CD1	ILE	A	203	53.745	39.417	18.554	1.00	0.00
ATOM	2654	H	ILE	A	203	57.408	36.160	18.935	1.00	0.00
ATOM	2655	HA	ILE	A	203	54.702	35.336	17.973	1.00	0.00
ATOM	2656	HB	ILE	A	203	55.924	38.131	17.673	1.00	0.00
ATOM	2657	1HG1	ILE	A	203	53.351	37.313	18.918	1.00	0.00
ATOM	2658	2HG1	ILE	A	203	54.809	37.931	19.728	1.00	0.00
ATOM	2659	1HG2	ILE	A	203	53.979	38.647	16.233	1.00	0.00
ATOM	2660	2HG2	ILE	A	203	54.969	37.351	15.524	1.00	0.00
ATOM	2661	3HG2	ILE	A	203	53.442	36.955	16.345	1.00	0.00
ATOM	2662	1HD1	ILE	A	203	53.134	39.766	19.387	1.00	0.00
ATOM	2663	2HD1	ILE	A	203	54.616	40.065	18.447	1.00	0.00
ATOM	2664	3HD1	ILE	A	203	53.157	39.446	17.638	1.00	0.00
ATOM	2665	N	SER	A	204	55.667	34.684	15.853	1.00	0.00
ATOM	2666	CA	SER	A	204	56.252	34.246	14.588	1.00	0.00
ATOM	2667	C	SER	A	204	55.361	34.866	13.521	1.00	0.00
ATOM	2668	O	SER	A	204	55.769	35.787	12.815	1.00	0.00
ATOM	2669	CB	SER	A	204	56.304	32.735	14.477	1.00	0.00
ATOM	2670	OG	SER	A	204	56.847	32.315	13.256	1.00	0.00
ATOM	2671	H	SER	A	204	54.789	34.285	16.153	1.00	0.00
ATOM	2672	HA	SER	A	204	57.312	34.488	14.494	1.00	0.00
ATOM	2673	1HB	SER	A	204	56.917	32.347	15.290	1.00	0.00
ATOM	2674	2HB	SER	A	204	55.291	32.343	14.568	1.00	0.00
ATOM	2675	HG	SER	A	204	57.742	32.652	13.171	1.00	0.00
ATOM	2676	N	ILE	A	205	54.136	34.358	13.431	1.00	0.00
ATOM	2677	CA	ILE	A	205	53.142	34.866	12.498	1.00	0.00
ATOM	2678	C	ILE	A	205	51.874	35.187	13.295	1.00	0.00
ATOM	2679	O	ILE	A	205	51.339	34.330	14.002	1.00	0.00
ATOM	2680	CB	ILE	A	205	52.753	33.828	11.444	1.00	0.00
ATOM	2681	CG1	ILE	A	205	53.942	33.257	10.684	1.00	0.00
ATOM	2682	CG2	ILE	A	205	51.704	34.406	10.491	1.00	0.00
ATOM	2683	CD1	ILE	A	205	53.454	32.187	9.709	1.00	0.00
ATOM	2684	H	ILE	A	205	53.893	33.588	14.038	1.00	0.00
ATOM	2685	HA	ILE	A	205	53.478	35.801	12.050	1.00	0.00
ATOM	2686	HB	ILE	A	205	52.347	32.949	11.944	1.00	0.00
ATOM	2687	1HG1	ILE	A	205	54.423	34.085	10.165	1.00	0.00
ATOM	2688	2HG1	ILE	A	205	54.630	32.844	11.422	1.00	0.00
ATOM	2689	1HG2	ILE	A	205	51.437	33.657	9.746	1.00	0.00
ATOM	2690	2HG2	ILE	A	205	50.816	34.688	11.055	1.00	0.00
ATOM	2691	3HG2	ILE	A	205	52.111	35.285	9.991	1.00	0.00
ATOM	2692	1HD1	ILE	A	205	54.304	31.776	9.163	1.00	0.00
ATOM	2693	2HD1	ILE	A	205	52.958	31.388	10.262	1.00	0.00
ATOM	2694	3HD1	ILE	A	205	52.752	32.629	9.004	1.00	0.00
ATOM	2695	N	LEU	A	206	51.403	36.427	13.192	1.00	0.00
ATOM	2696	CA	LEU	A	206	50.193	36.839	13.896	1.00	0.00
ATOM	2697	C	LEU	A	206	49.112	37.177	12.882	1.00	0.00
ATOM	2698	O	LEU	A	206	49.370	37.921	11.934	1.00	0.00
ATOM	2699	CB	LEU	A	206	50.476	38.038	14.810	1.00	0.00
ATOM	2700	CG	LEU	A	206	49.231	38.741	15.368	1.00	0.00
ATOM	2701	CD1	LEU	A	206	48.489	37.812	16.318	1.00	0.00
ATOM	2702	CD2	LEU	A	206	49.646	40.021	16.079	1.00	0.00
ATOM	2703	H	LEU	A	206	51.890	37.099	12.616	1.00	0.00
ATOM	2704	HA	LEU	A	206	49.828	36.014	14.507	1.00	0.00
ATOM	2705	1HB	LEU	A	206	51.007	37.528	15.612	1.00	0.00

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ATOM	2706	2HB	LEU	A	206	51.140	38.760	14.335	1.00	0.00
ATOM	2707	HG	LEU	A	206	48.608	39.019	14.518	1.00	0.00
ATOM	2708	1HD1	LEU	A	206	47.607	38.320	16.709	1.00	0.00
ATOM	2709	2HD1	LEU	A	206	48.181	36.914	15.783	1.00	0.00
ATOM	2710	3HD1	LEU	A	206	49.144	37.537	17.144	1.00	0.00
ATOM	2711	1HD2	LEU	A	206	48.761	40.520	16.474	1.00	0.00
ATOM	2712	2HD2	LEU	A	206	50.324	39.779	16.898	1.00	0.00
ATOM	2713	3HD2	LEU	A	206	50.150	40.682	15.374	1.00	0.00
ATOM	2714	N	LEU	A	207	47.916	36.618	13.071	1.00	0.00
ATOM	2715	CA	LEU	A	207	46.787	36.896	12.184	1.00	0.00
ATOM	2716	C	LEU	A	207	45.811	37.749	12.967	1.00	0.00
ATOM	2717	O	LEU	A	207	45.525	37.475	14.130	1.00	0.00
ATOM	2718	CB	LEU	A	207	46.124	35.604	11.691	1.00	0.00
ATOM	2719	CG	LEU	A	207	47.039	34.664	10.895	1.00	0.00
ATOM	2720	CD1	LEU	A	207	46.291	33.385	10.540	1.00	0.00
ATOM	2721	CD2	LEU	A	207	47.526	35.371	9.639	1.00	0.00
ATOM	2722	H	LEU	A	207	47.787	35.986	13.848	1.00	0.00
ATOM	2723	HA	LEU	A	207	47.134	37.454	11.315	1.00	0.00
ATOM	2724	1HB	LEU	A	207	45.873	35.156	12.651	1.00	0.00
ATOM	2725	2HB	LEU	A	207	45.210	35.806	11.134	1.00	0.00
ATOM	2726	HG	LEU	A	207	47.909	34.454	11.518	1.00	0.00
ATOM	2727	1HD1	LEU	A	207	46.949	32.724	9.975	1.00	0.00
ATOM	2728	2HD1	LEU	A	207	45.973	32.884	11.454	1.00	0.00
ATOM	2729	3HD1	LEU	A	207	45.418	33.631	9.936	1.00	0.00
ATOM	2730	1HD2	LEU	A	207	48.176	34.702	9.074	1.00	0.00
ATOM	2731	2HD2	LEU	A	207	46.670	35.651	9.024	1.00	0.00
ATOM	2732	3HD2	LEU	A	207	48.081	36.266	9.917	1.00	0.00
ATOM	2733	N	LEU	A	208	45.300	38.787	12.321	1.00	0.00
ATOM	2734	CA	LEU	A	208	44.368	39.698	12.960	1.00	0.00
ATOM	2735	C	LEU	A	208	43.093	39.865	12.130	1.00	0.00
ATOM	2736	O	LEU	A	208	43.143	40.077	10.921	1.00	0.00
ATOM	2737	CB	LEU	A	208	45.040	41.057	13.192	1.00	0.00
ATOM	2738	CG	LEU	A	208	46.378	41.004	13.942	1.00	0.00
ATOM	2739	CD1	LEU	A	208	47.020	42.384	13.961	1.00	0.00
ATOM	2740	CD2	LEU	A	208	46.148	40.497	15.358	1.00	0.00
ATOM	2741	H	LEU	A	208	45.565	38.949	11.360	1.00	0.00
ATOM	2742	HA	LEU	A	208	44.056	39.287	13.920	1.00	0.00
ATOM	2743	1HB	LEU	A	208	45.204	41.353	12.157	1.00	0.00
ATOM	2744	2HB	LEU	A	208	44.364	41.766	13.670	1.00	0.00
ATOM	2745	HG	LEU	A	208	47.009	40.280	13.427	1.00	0.00
ATOM	2746	1HD1	LEU	A	208	47.970	42.337	14.495	1.00	0.00
ATOM	2747	2HD1	LEU	A	208	47.197	42.717	12.938	1.00	0.00
ATOM	2748	3HD1	LEU	A	208	46.357	43.088	14.463	1.00	0.00
ATOM	2749	1HD2	LEU	A	208	47.099	40.459	15.889	1.00	0.00
ATOM	2750	2HD2	LEU	A	208	45.466	41.169	15.879	1.00	0.00
ATOM	2751	3HD2	LEU	A	208	45.713	39.498	15.321	1.00	0.00
ATOM	2752	N	GLY	A	209	41.947	39.747	12.787	1.00	0.00
ATOM	2753	CA	GLY	A	209	40.681	39.899	12.097	1.00	0.00
ATOM	2754	C	GLY	A	209	39.777	40.830	12.883	1.00	0.00
ATOM	2755	O	GLY	A	209	39.300	40.478	13.963	1.00	0.00
ATOM	2756	H	GLY	A	209	41.947	39.549	13.777	1.00	0.00
ATOM	2757	1HA	GLY	A	209	40.863	40.313	11.105	1.00	0.00
ATOM	2758	2HA	GLY	A	209	40.209	38.922	12.000	1.00	0.00
ATOM	2759	N	VAL	A	210	39.555	42.028	12.355	1.00	0.00
ATOM	2760	CA	VAL	A	210	38.701	42.989	13.027	1.00	0.00
ATOM	2761	C	VAL	A	210	37.504	43.327	12.162	1.00	0.00
ATOM	2762	O	VAL	A	210	37.615	43.435	10.938	1.00	0.00
ATOM	2763	CB	VAL	A	210	39.460	44.284	13.373	1.00	0.00
ATOM	2764	CG1	VAL	A	210	40.755	43.962	14.105	1.00	0.00
ATOM	2765	CG2	VAL	A	210	39.747	45.087	12.113	1.00	0.00
ATOM	2766	H	VAL	A	210	39.982	42.280	11.475	1.00	0.00
ATOM	2767	HA	VAL	A	210	38.286	42.576	13.947	1.00	0.00
ATOM	2768	HB	VAL	A	210	38.829	44.905	14.008	1.00	0.00

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ATOM	2769	1HG1	VAL	A	210	41.278	44.889	14.342	1.00	0.00
ATOM	2770	2HG1	VAL	A	210	40.529	43.428	15.027	1.00	0.00
ATOM	2771	3HG1	VAL	A	210	41.387	43.342	13.470	1.00	0.00
ATOM	2772	1HG2	VAL	A	210	40.283	45.998	12.376	1.00	0.00
ATOM	2773	2HG2	VAL	A	210	40.356	44.490	11.434	1.00	0.00
ATOM	2774	3HG2	VAL	A	210	38.807	45.347	11.626	1.00	0.00
ATOM	2775	N	ALA	A	211	36.358	43.487	12.820	1.00	0.00
ATOM	2776	CA	ALA	A	211	35.108	43.786	12.144	1.00	0.00
ATOM	2777	C	ALA	A	211	34.182	44.616	13.026	1.00	0.00
ATOM	2778	O	ALA	A	211	34.205	44.498	14.253	1.00	0.00
ATOM	2779	CB	ALA	A	211	34.389	42.504	11.732	1.00	0.00
ATOM	2780	H	ALA	A	211	36.364	43.396	13.826	1.00	0.00
ATOM	2781	HA	ALA	A	211	35.324	44.381	11.256	1.00	0.00
ATOM	2782	1HB	ALA	A	211	33.456	42.757	11.228	1.00	0.00
ATOM	2783	2HB	ALA	A	211	35.023	41.932	11.055	1.00	0.00
ATOM	2784	3HB	ALA	A	211	34.172	41.908	12.617	1.00	0.00
ATOM	2785	N	HIS	A	212	33.376	45.466	12.394	1.00	0.00
ATOM	2786	CA	HIS	A	212	32.415	46.293	13.110	1.00	0.00
ATOM	2787	C	HIS	A	212	31.091	46.363	12.358	1.00	0.00
ATOM	2788	O	HIS	A	212	31.070	46.341	11.124	1.00	0.00
ATOM	2789	CB	HIS	A	212	32.989	47.697	13.323	1.00	0.00
ATOM	2790	CG	HIS	A	212	31.914	48.610	13.863	1.00	0.00
ATOM	2791	ND1	HIS	A	212	31.358	48.474	15.081	1.00	0.00
ATOM	2792	CD2	HIS	A	212	31.316	49.694	13.213	1.00	0.00
ATOM	2793	CE1	HIS	A	212	30.415	49.462	15.208	1.00	0.00
ATOM	2794	NE2	HIS	A	212	30.391	50.212	14.058	1.00	0.00
ATOM	2795	H	HIS	A	212	33.434	45.538	11.388	1.00	0.00
ATOM	2796	HA	HIS	A	212	32.200	45.848	14.081	1.00	0.00
ATOM	2797	1HB	HIS	A	212	33.810	47.663	14.040	1.00	0.00
ATOM	2798	2HB	HIS	A	212	33.349	48.102	12.378	1.00	0.00
ATOM	2799	HD2	HIS	A	212	31.467	50.140	12.229	1.00	0.00
ATOM	2800	HE1	HIS	A	212	29.827	49.554	16.121	1.00	0.00
ATOM	2801	HE2	HIS	A	212	29.791	51.005	13.879	1.00	0.00
ATOM	2802	N	PHE	A	213	29.988	46.461	13.096	1.00	0.00
ATOM	2803	CA	PHE	A	213	28.678	46.545	12.459	1.00	0.00
ATOM	2804	C	PHE	A	213	27.603	47.320	13.231	1.00	0.00
ATOM	2805	O	PHE	A	213	27.314	47.038	14.400	1.00	0.00
ATOM	2806	CB	PHE	A	213	28.150	45.146	12.129	1.00	0.00
ATOM	2807	CG	PHE	A	213	26.889	45.241	11.300	1.00	0.00
ATOM	2808	CD1	PHE	A	213	26.978	45.417	9.926	1.00	0.00
ATOM	2809	CD2	PHE	A	213	25.639	45.150	11.903	1.00	0.00
ATOM	2810	CE1	PHE	A	213	25.824	45.498	9.157	1.00	0.00
ATOM	2811	CE2	PHE	A	213	24.483	45.230	11.136	1.00	0.00
ATOM	2812	CZ	PHE	A	213	24.576	45.403	9.761	1.00	0.00
ATOM	2813	H	PHE	A	213	30.047	46.478	14.104	1.00	0.00
ATOM	2814	HA	PHE	A	213	28.758	47.092	11.518	1.00	0.00
ATOM	2815	1HB	PHE	A	213	28.894	44.589	11.561	1.00	0.00
ATOM	2816	2HB	PHE	A	213	27.917	44.608	13.047	1.00	0.00
ATOM	2817	HD1	PHE	A	213	27.962	45.490	9.461	1.00	0.00
ATOM	2818	HD2	PHE	A	213	25.568	45.015	12.983	1.00	0.00
ATOM	2819	HE1	PHE	A	213	25.897	45.636	8.079	1.00	0.00
ATOM	2820	HE2	PHE	A	213	23.505	45.158	11.611	1.00	0.00
ATOM	2821	HZ	PHE	A	213	23.671	45.465	9.158	1.00	0.00
ATOM	2822	N	LYS	A	214	27.011	48.293	12.547	1.00	0.00
ATOM	2823	CA	LYS	A	214	25.938	49.113	13.089	1.00	0.00
ATOM	2824	C	LYS	A	214	25.045	49.337	11.872	1.00	0.00
ATOM	2825	O	LYS	A	214	25.362	50.157	11.010	1.00	0.00
ATOM	2826	CB	LYS	A	214	26.440	50.426	13.691	1.00	0.00
ATOM	2827	CG	LYS	A	214	25.362	51.259	14.372	1.00	0.00
ATOM	2828	CD	LYS	A	214	25.954	52.490	15.041	1.00	0.00
ATOM	2829	CE	LYS	A	214	24.896	53.262	15.817	1.00	0.00
ATOM	2830	NZ	LYS	A	214	25.477	54.421	16.547	1.00	0.00
ATOM	2831	H	LYS	A	214	27.331	48.462	11.604	1.00	0.00

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ATOM	2832	HA	LYS	A	214	25.421	48.568	13.880	1.00	0.00
ATOM	2833	1HB	LYS	A	214	27.213	50.170	14.417	1.00	0.00
ATOM	2834	2HB	LYS	A	214	26.883	51.002	12.879	1.00	0.00
ATOM	2835	1HG	LYS	A	214	24.636	51.568	13.619	1.00	0.00
ATOM	2836	2HG	LYS	A	214	24.867	50.641	15.120	1.00	0.00
ATOM	2837	1HD	LYS	A	214	26.743	52.169	15.723	1.00	0.00
ATOM	2838	2HD	LYS	A	214	26.380	53.133	14.272	1.00	0.00
ATOM	2839	1HE	LYS	A	214	24.146	53.617	15.111	1.00	0.00
ATOM	2840	2HE	LYS	A	214	24.430	52.581	16.529	1.00	0.00
ATOM	2841	1HZ	LYS	A	214	24.745	54.905	17.048	1.00	0.00
ATOM	2842	2HZ	LYS	A	214	26.172	54.093	17.203	1.00	0.00
ATOM	2843	3HZ	LYS	A	214	25.908	55.053	15.888	1.00	0.00
ATOM	2844	N	GLY	A	215	23.941	48.600	11.785	1.00	0.00
ATOM	2845	CA	GLY	A	215	23.069	48.743	10.633	1.00	0.00
ATOM	2846	C	GLY	A	215	21.743	49.448	10.843	1.00	0.00
ATOM	2847	O	GLY	A	215	21.564	50.194	11.807	1.00	0.00
ATOM	2848	H	GLY	A	215	23.696	47.939	12.508	1.00	0.00
ATOM	2849	1HA	GLY	A	215	23.588	49.312	9.862	1.00	0.00
ATOM	2850	2HA	GLY	A	215	22.821	47.754	10.249	1.00	0.00
ATOM	2851	N	GLN	A	216	20.818	49.214	9.913	1.00	0.00
ATOM	2852	CA	GLN	A	216	19.485	49.800	9.968	1.00	0.00
ATOM	2853	C	GLN	A	216	18.447	48.835	9.421	1.00	0.00
ATOM	2854	O	GLN	A	216	18.663	48.206	8.384	1.00	0.00
ATOM	2855	CB	GLN	A	216	19.439	51.111	9.179	1.00	0.00
ATOM	2856	CG	GLN	A	216	20.238	52.242	9.804	1.00	0.00
ATOM	2857	CD	GLN	A	216	20.127	53.534	9.017	1.00	0.00
ATOM	2858	OE1	GLN	A	216	19.415	53.604	8.011	1.00	0.00
ATOM	2859	NE2	GLN	A	216	20.834	54.564	9.468	1.00	0.00
ATOM	2860	H	GLN	A	216	21.057	48.606	9.143	1.00	0.00
ATOM	2861	HA	GLN	A	216	19.215	49.997	11.005	1.00	0.00
ATOM	2862	1HB	GLN	A	216	19.825	50.893	8.183	1.00	0.00
ATOM	2863	2HB	GLN	A	216	18.390	51.398	9.107	1.00	0.00
ATOM	2864	1HG	GLN	A	216	20.179	52.490	10.864	1.00	0.00
ATOM	2865	2HG	GLN	A	216	21.208	51.791	9.591	1.00	0.00
ATOM	2866	1HE2	GLN	A	216	20.800	55.442	8.989	1.00	0.00
ATOM	2867	2HE2	GLN	A	216	21.399	54.462	10.287	1.00	0.00
ATOM	2868	N	TRP	A	217	17.318	48.728	10.116	1.00	0.00
ATOM	2869	CA	TRP	A	217	16.233	47.861	9.675	1.00	0.00
ATOM	2870	C	TRP	A	217	15.526	48.627	8.570	1.00	0.00
ATOM	2871	O	TRP	A	217	15.705	49.837	8.443	1.00	0.00
ATOM	2872	CB	TRP	A	217	15.242	47.552	10.794	1.00	0.00
ATOM	2873	CG	TRP	A	217	15.948	47.255	12.092	1.00	0.00
ATOM	2874	CD1	TRP	A	217	16.162	48.160	13.139	1.00	0.00
ATOM	2875	CD2	TRP	A	217	16.518	46.009	12.547	1.00	0.00
ATOM	2876	NE1	TRP	A	217	16.807	47.560	14.171	1.00	0.00
ATOM	2877	CE2	TRP	A	217	17.043	46.230	13.842	1.00	0.00
ATOM	2878	CE3	TRP	A	217	16.619	44.748	11.972	1.00	0.00
ATOM	2879	CZ2	TRP	A	217	17.650	45.186	14.528	1.00	0.00
ATOM	2880	CZ3	TRP	A	217	17.230	43.712	12.669	1.00	0.00
ATOM	2881	CH2	TRP	A	217	17.743	43.929	13.942	1.00	0.00
ATOM	2882	H	TRP	A	217	17.208	49.259	10.968	1.00	0.00
ATOM	2883	HA	TRP	A	217	16.640	46.928	9.287	1.00	0.00
ATOM	2884	1HB	TRP	A	217	14.585	48.405	10.963	1.00	0.00
ATOM	2885	2HB	TRP	A	217	14.644	46.679	10.535	1.00	0.00
ATOM	2886	HD1	TRP	A	217	15.800	49.176	12.993	1.00	0.00
ATOM	2887	HE1	TRP	A	217	17.073	48.006	15.037	1.00	0.00
ATOM	2888	HE3	TRP	A	217	16.227	44.540	10.977	1.00	0.00
ATOM	2889	HZ2	TRP	A	217	18.046	45.372	15.527	1.00	0.00
ATOM	2890	HZ3	TRP	A	217	17.300	42.730	12.200	1.00	0.00
ATOM	2891	HH2	TRP	A	217	18.222	43.117	14.490	1.00	0.00
ATOM	2892	N	VAL	A	218	14.731	47.936	7.762	1.00	0.00
ATOM	2893	CA	VAL	A	218	14.005	48.631	6.710	1.00	0.00
ATOM	2894	C	VAL	A	218	12.898	49.413	7.429	1.00	0.00

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ATOM	2895	O	VAL	A	218	12.459	50.469	6.972	1.00	0.00
ATOM	2896	CB	VAL	A	218	13.406	47.676	5.661	1.00	0.00
ATOM	2897	CG1	VAL	A	218	12.524	48.441	4.685	1.00	0.00
ATOM	2898	CG2	VAL	A	218	14.510	46.941	4.916	1.00	0.00
ATOM	2899	H	VAL	A	218	14.618	46.937	7.861	1.00	0.00
ATOM	2900	HA	VAL	A	218	14.647	49.340	6.187	1.00	0.00
ATOM	2901	HB	VAL	A	218	12.810	46.918	6.171	1.00	0.00
ATOM	2902	1HG1	VAL	A	218	12.109	47.750	3.951	1.00	0.00
ATOM	2903	2HG1	VAL	A	218	11.712	48.923	5.229	1.00	0.00
ATOM	2904	3HG1	VAL	A	218	13.120	49.198	4.174	1.00	0.00
ATOM	2905	1HG2	VAL	A	218	14.069	46.270	4.180	1.00	0.00
ATOM	2906	2HG2	VAL	A	218	15.150	47.665	4.411	1.00	0.00
ATOM	2907	3HG2	VAL	A	218	15.104	46.363	5.624	1.00	0.00
ATOM	2908	N	THR	A	219	12.470	48.885	8.572	1.00	0.00
ATOM	2909	CA	THR	A	219	11.431	49.513	9.370	1.00	0.00
ATOM	2910	C	THR	A	219	12.001	49.866	10.724	1.00	0.00
ATOM	2911	O	THR	A	219	12.475	48.991	11.444	1.00	0.00
ATOM	2912	CB	THR	A	219	10.202	48.603	9.549	1.00	0.00
ATOM	2913	OG1	THR	A	219	9.642	48.294	8.267	1.00	0.00
ATOM	2914	CG2	THR	A	219	9.150	49.290	10.406	1.00	0.00
ATOM	2915	H	THR	A	219	12.882	48.020	8.893	1.00	0.00
ATOM	2916	HA	THR	A	219	11.106	50.437	8.891	1.00	0.00
ATOM	2917	HB	THR	A	219	10.514	47.677	10.032	1.00	0.00
ATOM	2918	HG1	THR	A	219	10.153	47.592	7.855	1.00	0.00
ATOM	2919	1HG2	THR	A	219	8.289	48.631	10.522	1.00	0.00
ATOM	2920	2HG2	THR	A	219	9.570	49.516	11.386	1.00	0.00
ATOM	2921	3HG2	THR	A	219	8.836	50.215	9.924	1.00	0.00
ATOM	2922	N	LYS	A	220	11.953	51.144	11.075	1.00	0.00
ATOM	2923	CA	LYS	A	220	12.472	51.577	12.361	1.00	0.00
ATOM	2924	C	LYS	A	220	11.495	51.217	13.473	1.00	0.00
ATOM	2925	O	LYS	A	220	10.346	50.841	13.216	1.00	0.00
ATOM	2926	CB	LYS	A	220	12.743	53.082	12.355	1.00	0.00
ATOM	2927	CG	LYS	A	220	11.497	53.945	12.206	1.00	0.00
ATOM	2928	CD	LYS	A	220	11.851	55.424	12.149	1.00	0.00
ATOM	2929	CE	LYS	A	220	10.604	56.288	12.032	1.00	0.00
ATOM	2930	NZ	LYS	A	220	10.932	57.740	12.025	1.00	0.00
ATOM	2931	H	LYS	A	220	11.554	51.829	10.449	1.00	0.00
ATOM	2932	HA	LYS	A	220	13.407	51.058	12.575	1.00	0.00
ATOM	2933	1HB	LYS	A	220	13.239	53.321	13.296	1.00	0.00
ATOM	2934	2HB	LYS	A	220	13.423	53.282	11.527	1.00	0.00
ATOM	2935	1HG	LYS	A	220	10.985	53.658	11.286	1.00	0.00
ATOM	2936	2HG	LYS	A	220	10.843	53.760	13.058	1.00	0.00
ATOM	2937	1HD	LYS	A	220	12.392	55.686	13.059	1.00	0.00
ATOM	2938	2HD	LYS	A	220	12.492	55.594	11.285	1.00	0.00
ATOM	2939	1HE	LYS	A	220	10.093	56.027	11.107	1.00	0.00
ATOM	2940	2HE	LYS	A	220	9.955	56.067	12.879	1.00	0.00
ATOM	2941	1HZ	LYS	A	220	10.080	58.277	11.947	1.00	0.00
ATOM	2942	2HZ	LYS	A	220	11.406	57.983	12.884	1.00	0.00
ATOM	2943	3HZ	LYS	A	220	11.533	57.945	11.239	1.00	0.00
ATOM	2944	N	PHE	A	221	11.973	51.321	14.707	1.00	0.00
ATOM	2945	CA	PHE	A	221	11.165	51.048	15.881	1.00	0.00
ATOM	2946	C	PHE	A	221	10.824	52.390	16.505	1.00	0.00
ATOM	2947	O	PHE	A	221	11.558	53.366	16.328	1.00	0.00
ATOM	2948	CB	PHE	A	221	11.899	50.170	16.895	1.00	0.00
ATOM	2949	CG	PHE	A	221	12.098	48.778	16.349	1.00	0.00
ATOM	2950	CD1	PHE	A	221	11.039	47.880	16.349	1.00	0.00
ATOM	2951	CD2	PHE	A	221	13.339	48.393	15.856	1.00	0.00
ATOM	2952	CE1	PHE	A	221	11.222	46.591	15.863	1.00	0.00
ATOM	2953	CE2	PHE	A	221	13.521	47.104	15.371	1.00	0.00
ATOM	2954	CZ	PHE	A	221	12.464	46.202	15.377	1.00	0.00
ATOM	2955	H	PHE	A	221	12.936	51.601	14.827	1.00	0.00
ATOM	2956	HA	PHE	A	221	10.243	50.545	15.587	1.00	0.00
ATOM	2957	1HB	PHE	A	221	12.878	50.592	17.118	1.00	0.00

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ATOM	2958	2HB	PHE	A	221	11.319	50.095	17.814	1.00	0.00
ATOM	2959	HD1	PHE	A	221	10.070	48.200	16.732	1.00	0.00
ATOM	2960	HD2	PHE	A	221	14.170	49.099	15.851	1.00	0.00
ATOM	2961	HE1	PHE	A	221	10.391	45.886	15.863	1.00	0.00
ATOM	2962	HE2	PHE	A	221	14.494	46.800	14.986	1.00	0.00
ATOM	2963	HZ	PHE	A	221	12.611	45.190	15.002	1.00	0.00
ATOM	2964	N	ASP	A	222	9.715	52.441	17.235	1.00	0.00
ATOM	2965	CA	ASP	A	222	9.300	53.675	17.884	1.00	0.00
ATOM	2966	C	ASP	A	222	10.097	53.828	19.175	1.00	0.00
ATOM	2967	O	ASP	A	222	9.884	53.085	20.134	1.00	0.00
ATOM	2968	CB	ASP	A	222	7.796	53.675	18.168	1.00	0.00
ATOM	2969	CG	ASP	A	222	7.275	54.959	18.798	1.00	0.00
ATOM	2970	OD1	ASP	A	222	8.074	55.805	19.124	1.00	0.00
ATOM	2971	OD2	ASP	A	222	6.082	55.152	18.806	1.00	0.00
ATOM	2972	H	ASP	A	222	9.147	51.613	17.344	1.00	0.00
ATOM	2973	HA	ASP	A	222	9.525	54.525	17.239	1.00	0.00
ATOM	2974	1HB	ASP	A	222	7.189	53.426	17.297	1.00	0.00
ATOM	2975	2HB	ASP	A	222	7.739	52.864	18.895	1.00	0.00
ATOM	2976	N	SER	A	223	11.018	54.788	19.195	1.00	0.00
ATOM	2977	CA	SER	A	223	11.849	55.017	20.372	1.00	0.00
ATOM	2978	C	SER	A	223	10.998	55.288	21.610	1.00	0.00
ATOM	2979	O	SER	A	223	11.456	55.131	22.746	1.00	0.00
ATOM	2980	CB	SER	A	223	12.799	56.172	20.121	1.00	0.00
ATOM	2981	OG	SER	A	223	12.119	57.387	19.962	1.00	0.00
ATOM	2982	H	SER	A	223	11.147	55.371	18.381	1.00	0.00
ATOM	2983	HA	SER	A	223	12.546	54.203	20.575	1.00	0.00
ATOM	2984	1HB	SER	A	223	13.479	56.254	20.969	1.00	0.00
ATOM	2985	2HB	SER	A	223	13.370	55.965	19.217	1.00	0.00
ATOM	2986	HG	SER	A	223	12.754	58.090	19.806	1.00	0.00
ATOM	2987	N	ARG	A	224	9.754	55.693	21.384	1.00	0.00
ATOM	2988	CA	ARG	A	224	8.841	55.987	22.480	1.00	0.00
ATOM	2989	C	ARG	A	224	8.186	54.702	22.988	1.00	0.00
ATOM	2990	O	ARG	A	224	7.569	54.688	24.057	1.00	0.00
ATOM	2991	CB	ARG	A	224	7.807	57.038	22.104	1.00	0.00
ATOM	2992	CG	ARG	A	224	8.372	58.423	21.832	1.00	0.00
ATOM	2993	CD	ARG	A	224	7.369	59.412	21.361	1.00	0.00
ATOM	2994	NE	ARG	A	224	6.805	59.122	20.053	1.00	0.00
ATOM	2995	CZ	ARG	A	224	5.805	59.820	19.479	1.00	0.00
ATOM	2996	NH1	ARG	A	224	5.231	60.822	20.107	1.00	0.00
ATOM	2997	NH2	ARG	A	224	5.398	59.454	18.276	1.00	0.00
ATOM	2998	H	ARG	A	224	9.432	55.800	20.433	1.00	0.00
ATOM	2999	HA	ARG	A	224	9.394	56.415	23.317	1.00	0.00
ATOM	3000	1HB	ARG	A	224	7.296	56.677	21.212	1.00	0.00
ATOM	3001	2HB	ARG	A	224	7.098	57.096	22.930	1.00	0.00
ATOM	3002	1HG	ARG	A	224	8.814	58.805	22.753	1.00	0.00
ATOM	3003	2HG	ARG	A	224	9.145	58.337	21.067	1.00	0.00
ATOM	3004	1HD	ARG	A	224	6.544	59.445	22.072	1.00	0.00
ATOM	3005	2HD	ARG	A	224	7.839	60.393	21.304	1.00	0.00
ATOM	3006	HE	ARG	A	224	7.048	58.396	19.392	1.00	0.00
ATOM	3007	1HH1	ARG	A	224	5.542	61.078	21.034	1.00	0.00
ATOM	3008	2HH1	ARG	A	224	4.483	61.332	19.660	1.00	0.00
ATOM	3009	1HH2	ARG	A	224	5.838	58.669	17.815	1.00	0.00
ATOM	3010	2HH2	ARG	A	224	4.651	59.959	17.824	1.00	0.00
ATOM	3011	N	LYS	A	225	8.343	53.622	22.225	1.00	0.00
ATOM	3012	CA	LYS	A	225	7.758	52.329	22.574	1.00	0.00
ATOM	3013	C	LYS	A	225	8.777	51.382	23.228	1.00	0.00
ATOM	3014	O	LYS	A	225	8.469	50.225	23.530	1.00	0.00
ATOM	3015	CB	LYS	A	225	7.160	51.673	21.329	1.00	0.00
ATOM	3016	CG	LYS	A	225	5.966	52.413	20.739	1.00	0.00
ATOM	3017	CD	LYS	A	225	5.435	51.708	19.500	1.00	0.00
ATOM	3018	CE	LYS	A	225	4.264	52.465	18.891	1.00	0.00
ATOM	3019	NZ	LYS	A	225	3.118	52.571	19.834	1.00	0.00
ATOM	3020	H	LYS	A	225	8.886	53.704	21.377	1.00	0.00

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ATOM	3021	HA	LYS	A	225	6.968	52.469	23.313	1.00	0.00
ATOM	3022	1HB	LYS	A	225	7.954	51.615	20.585	1.00	0.00
ATOM	3023	2HB	LYS	A	225	6.856	50.665	21.613	1.00	0.00
ATOM	3024	1HG	LYS	A	225	5.181	52.462	21.495	1.00	0.00
ATOM	3025	2HG	LYS	A	225	6.280	53.423	20.477	1.00	0.00
ATOM	3026	1HD	LYS	A	225	6.242	51.636	18.769	1.00	0.00
ATOM	3027	2HD	LYS	A	225	5.111	50.706	19.782	1.00	0.00
ATOM	3028	1HE	LYS	A	225	4.606	53.464	18.622	1.00	0.00
ATOM	3029	2HE	LYS	A	225	3.947	51.937	17.992	1.00	0.00
ATOM	3030	1HZ	LYS	A	225	2.364	53.078	19.393	1.00	0.00
ATOM	3031	2HZ	LYS	A	225	2.800	51.644	20.083	1.00	0.00
ATOM	3032	3HZ	LYS	A	225	3.412	53.061	20.667	1.00	0.00
ATOM	3033	N	THR	A	226	9.988	51.885	23.447	1.00	0.00
ATOM	3034	CA	THR	A	226	11.054	51.104	24.068	1.00	0.00
ATOM	3035	C	THR	A	226	10.978	51.255	25.585	1.00	0.00
ATOM	3036	O	THR	A	226	11.093	52.360	26.103	1.00	0.00
ATOM	3037	CB	THR	A	226	12.448	51.537	23.577	1.00	0.00
ATOM	3038	OG1	THR	A	226	12.539	51.346	22.159	1.00	0.00
ATOM	3039	CG2	THR	A	226	13.533	50.723	24.265	1.00	0.00
ATOM	3040	H	THR	A	226	10.173	52.839	23.173	1.00	0.00
ATOM	3041	HA	THR	A	226	10.920	50.047	23.836	1.00	0.00
ATOM	3042	HB	THR	A	226	12.590	52.594	23.802	1.00	0.00
ATOM	3043	HG1	THR	A	226	13.408	51.616	21.855	1.00	0.00
ATOM	3044	1HG2	THR	A	226	14.510	51.044	23.906	1.00	0.00
ATOM	3045	2HG2	THR	A	226	13.473	50.876	25.343	1.00	0.00
ATOM	3046	3HG2	THR	A	226	13.392	49.667	24.040	1.00	0.00
ATOM	3047	N	SER	A	227	10.787	50.148	26.296	1.00	0.00
ATOM	3048	CA	SER	A	227	10.700	50.205	27.752	1.00	0.00
ATOM	3049	C	SER	A	227	11.471	49.085	28.430	1.00	0.00
ATOM	3050	O	SER	A	227	11.703	48.040	27.834	1.00	0.00
ATOM	3051	CB	SER	A	227	9.246	50.165	28.181	1.00	0.00
ATOM	3052	OG	SER	A	227	8.630	48.954	27.840	1.00	0.00
ATOM	3053	H	SER	A	227	10.700	49.255	25.833	1.00	0.00
ATOM	3054	HA	SER	A	227	11.026	51.159	28.168	1.00	0.00
ATOM	3055	1HB	SER	A	227	9.199	50.295	29.262	1.00	0.00
ATOM	3056	2HB	SER	A	227	8.716	50.982	27.695	1.00	0.00
ATOM	3057	HG	SER	A	227	9.089	48.229	28.271	1.00	0.00
ATOM	3058	N	LEU	A	228	11.864	49.306	29.680	1.00	0.00
ATOM	3059	CA	LEU	A	228	12.580	48.283	30.425	1.00	0.00
ATOM	3060	C	LEU	A	228	11.626	47.114	30.614	1.00	0.00
ATOM	3061	O	LEU	A	228	10.492	47.294	31.049	1.00	0.00
ATOM	3062	CB	LEU	A	228	13.080	48.820	31.772	1.00	0.00
ATOM	3063	CG	LEU	A	228	14.156	49.910	31.681	1.00	0.00
ATOM	3064	CD1	LEU	A	228	14.473	50.447	33.070	1.00	0.00
ATOM	3065	CD2	LEU	A	228	15.404	49.339	31.026	1.00	0.00
ATOM	3066	H	LEU	A	228	11.667	50.191	30.125	1.00	0.00
ATOM	3067	HA	LEU	A	228	13.441	47.947	29.849	1.00	0.00
ATOM	3068	1HB	LEU	A	228	12.150	49.243	32.150	1.00	0.00
ATOM	3069	2HB	LEU	A	228	13.407	48.016	32.431	1.00	0.00
ATOM	3070	HG	LEU	A	228	13.767	50.695	31.032	1.00	0.00
ATOM	3071	1HD1	LEU	A	228	15.238	51.221	32.996	1.00	0.00
ATOM	3072	2HD1	LEU	A	228	13.571	50.872	33.511	1.00	0.00
ATOM	3073	3HD1	LEU	A	228	14.838	49.636	33.699	1.00	0.00
ATOM	3074	1HD2	LEU	A	228	16.168	50.115	30.961	1.00	0.00
ATOM	3075	2HD2	LEU	A	228	15.780	48.507	31.621	1.00	0.00
ATOM	3076	3HD2	LEU	A	228	15.160	48.987	30.023	1.00	0.00
ATOM	3077	N	GLU	A	229	12.080	45.915	30.271	1.00	0.00
ATOM	3078	CA	GLU	A	229	11.257	44.721	30.410	1.00	0.00
ATOM	3079	C	GLU	A	229	12.060	43.624	31.078	1.00	0.00
ATOM	3080	O	GLU	A	229	13.255	43.780	31.313	1.00	0.00
ATOM	3081	CB	GLU	A	229	10.739	44.249	29.049	1.00	0.00
ATOM	3082	CG	GLU	A	229	9.867	45.264	28.322	1.00	0.00
ATOM	3083	CD	GLU	A	229	8.550	45.453	29.022	1.00	0.00

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ATOM	3084	OE1	GLU	A	229	8.225	44.650	29.863	1.00	0.00
ATOM	3085	OE2	GLU	A	229	7.921	46.460	28.798	1.00	0.00
ATOM	3086	H	GLU	A	229	13.017	45.827	29.905	1.00	0.00
ATOM	3087	HA	GLU	A	229	10.399	44.935	31.048	1.00	0.00
ATOM	3088	1HB	GLU	A	229	11.612	44.018	28.439	1.00	0.00
ATOM	3089	2HB	GLU	A	229	10.166	43.338	29.225	1.00	0.00
ATOM	3090	1HG	GLU	A	229	10.349	46.232	28.188	1.00	0.00
ATOM	3091	2HG	GLU	A	229	9.699	44.805	27.349	1.00	0.00
ATOM	3092	N	ASP	A	230	11.395	42.516	31.381	1.00	0.00
ATOM	3093	CA	ASP	A	230	12.046	41.387	32.023	1.00	0.00
ATOM	3094	C	ASP	A	230	12.709	40.480	31.002	1.00	0.00
ATOM	3095	O	ASP	A	230	12.124	40.161	29.971	1.00	0.00
ATOM	3096	CB	ASP	A	230	11.039	40.591	32.857	1.00	0.00
ATOM	3097	CG	ASP	A	230	10.482	41.344	34.058	1.00	0.00
ATOM	3098	OD1	ASP	A	230	11.257	41.922	34.784	1.00	0.00
ATOM	3099	OD2	ASP	A	230	9.285	41.469	34.152	1.00	0.00
ATOM	3100	H	ASP	A	230	10.411	42.456	31.160	1.00	0.00
ATOM	3101	HA	ASP	A	230	12.839	41.743	32.681	1.00	0.00
ATOM	3102	1HB	ASP	A	230	10.215	40.183	32.271	1.00	0.00
ATOM	3103	2HB	ASP	A	230	11.678	39.778	33.203	1.00	0.00
ATOM	3104	N	PHE	A	231	13.941	40.078	31.291	1.00	0.00
ATOM	3105	CA	PHE	A	231	14.685	39.190	30.413	1.00	0.00
ATOM	3106	C	PHE	A	231	15.097	38.004	31.261	1.00	0.00
ATOM	3107	O	PHE	A	231	15.858	38.150	32.216	1.00	0.00
ATOM	3108	CB	PHE	A	231	15.917	39.867	29.816	1.00	0.00
ATOM	3109	CG	PHE	A	231	16.572	38.952	28.803	1.00	0.00
ATOM	3110	CD1	PHE	A	231	17.447	37.950	29.209	1.00	0.00
ATOM	3111	CD2	PHE	A	231	16.302	39.117	27.450	1.00	0.00
ATOM	3112	CE1	PHE	A	231	18.067	37.134	28.270	1.00	0.00
ATOM	3113	CE2	PHE	A	231	16.923	38.306	26.507	1.00	0.00
ATOM	3114	CZ	PHE	A	231	17.821	37.328	26.917	1.00	0.00
ATOM	3115	H	PHE	A	231	14.372	40.399	32.146	1.00	0.00
ATOM	3116	HA	PHE	A	231	14.044	38.853	29.597	1.00	0.00
ATOM	3117	1HB	PHE	A	231	15.632	40.791	29.315	1.00	0.00
ATOM	3118	2HB	PHE	A	231	16.639	40.088	30.601	1.00	0.00
ATOM	3119	HD1	PHE	A	231	17.641	37.811	30.273	1.00	0.00
ATOM	3120	HD2	PHE	A	231	15.597	39.885	27.129	1.00	0.00
ATOM	3121	HE1	PHE	A	231	18.744	36.345	28.597	1.00	0.00
ATOM	3122	HE2	PHE	A	231	16.707	38.437	25.447	1.00	0.00
ATOM	3123	HZ	PHE	A	231	18.332	36.715	26.176	1.00	0.00
ATOM	3124	N	TYR	A	232	14.590	36.828	30.922	1.00	0.00
ATOM	3125	CA	TYR	A	232	14.912	35.634	31.687	1.00	0.00
ATOM	3126	C	TYR	A	232	16.273	35.076	31.319	1.00	0.00
ATOM	3127	O	TYR	A	232	16.427	34.450	30.275	1.00	0.00
ATOM	3128	CB	TYR	A	232	13.838	34.564	31.478	1.00	0.00
ATOM	3129	CG	TYR	A	232	12.491	34.924	32.064	1.00	0.00
ATOM	3130	CD1	TYR	A	232	11.493	35.471	31.271	1.00	0.00
ATOM	3131	CD2	TYR	A	232	12.221	34.715	33.408	1.00	0.00
ATOM	3132	CE1	TYR	A	232	10.260	35.803	31.800	1.00	0.00
ATOM	3133	CE2	TYR	A	232	10.993	35.042	33.948	1.00	0.00
ATOM	3134	CZ	TYR	A	232	10.014	35.586	33.141	1.00	0.00
ATOM	3135	OH	TYR	A	232	8.789	35.913	33.674	1.00	0.00
ATOM	3136	H	TYR	A	232	13.973	36.751	30.126	1.00	0.00
ATOM	3137	HA	TYR	A	232	14.961	35.877	32.749	1.00	0.00
ATOM	3138	1HB	TYR	A	232	13.738	34.412	30.402	1.00	0.00
ATOM	3139	2HB	TYR	A	232	14.203	33.647	31.942	1.00	0.00
ATOM	3140	HD1	TYR	A	232	11.694	35.639	30.213	1.00	0.00
ATOM	3141	HD2	TYR	A	232	12.998	34.286	34.040	1.00	0.00
ATOM	3142	HE1	TYR	A	232	9.486	36.232	31.166	1.00	0.00
ATOM	3143	HE2	TYR	A	232	10.800	34.871	35.008	1.00	0.00
ATOM	3144	HH	TYR	A	232	8.725	35.721	34.613	1.00	0.00
ATOM	3145	N	LEU	A	233	17.262	35.316	32.179	1.00	0.00
ATOM	3146	CA	LEU	A	233	18.617	34.818	31.950	1.00	0.00

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ATOM	3147	C	LEU	A	233	18.595	33.296	32.056	1.00	0.00
ATOM	3148	O	LEU	A	233	19.464	32.606	31.524	1.00	0.00
ATOM	3149	CB	LEU	A	233	19.604	35.426	32.954	1.00	0.00
ATOM	3150	CG	LEU	A	233	19.838	36.935	32.808	1.00	0.00
ATOM	3151	CD1	LEU	A	233	20.728	37.437	33.937	1.00	0.00
ATOM	3152	CD2	LEU	A	233	20.471	37.222	31.454	1.00	0.00
ATOM	3153	H	LEU	A	233	17.070	35.856	33.011	1.00	0.00
ATOM	3154	HA	LEU	A	233	18.939	35.085	30.944	1.00	0.00
ATOM	3155	1HB	LEU	A	233	19.066	35.219	33.878	1.00	0.00
ATOM	3156	2HB	LEU	A	233	20.554	34.892	32.960	1.00	0.00
ATOM	3157	HG	LEU	A	233	18.861	37.418	32.828	1.00	0.00
ATOM	3158	1HD1	LEU	A	233	20.888	38.510	33.825	1.00	0.00
ATOM	3159	2HD1	LEU	A	233	20.245	37.242	34.895	1.00	0.00
ATOM	3160	3HD1	LEU	A	233	21.687	36.921	33.902	1.00	0.00
ATOM	3161	1HD2	LEU	A	233	20.637	38.295	31.351	1.00	0.00
ATOM	3162	2HD2	LEU	A	233	21.425	36.699	31.380	1.00	0.00
ATOM	3163	3HD2	LEU	A	233	19.806	36.880	30.661	1.00	0.00
ATOM	3164	N	ASP	A	234	17.583	32.788	32.750	1.00	0.00
ATOM	3165	CA	ASP	A	234	17.394	31.360	32.946	1.00	0.00
ATOM	3166	C	ASP	A	234	16.201	31.123	33.859	1.00	0.00
ATOM	3167	O	ASP	A	234	15.562	32.064	34.325	1.00	0.00
ATOM	3168	CB	ASP	A	234	18.654	30.717	33.532	1.00	0.00
ATOM	3169	CG	ASP	A	234	19.172	31.387	34.797	1.00	0.00
ATOM	3170	OD1	ASP	A	234	18.416	31.517	35.730	1.00	0.00
ATOM	3171	OD2	ASP	A	234	20.354	31.621	34.879	1.00	0.00
ATOM	3172	H	ASP	A	234	16.920	33.432	33.156	1.00	0.00
ATOM	3173	HA	ASP	A	234	17.176	30.882	31.991	1.00	0.00
ATOM	3174	1HB	ASP	A	234	18.554	29.645	33.704	1.00	0.00
ATOM	3175	2HB	ASP	A	234	19.355	30.891	32.715	1.00	0.00
ATOM	3176	N	GLU	A	235	15.900	29.858	34.102	1.00	0.00
ATOM	3177	CA	GLU	A	235	14.775	29.475	34.933	1.00	0.00
ATOM	3178	C	GLU	A	235	14.757	30.024	36.367	1.00	0.00
ATOM	3179	O	GLU	A	235	13.689	30.112	36.974	1.00	0.00
ATOM	3180	CB	GLU	A	235	14.705	27.947	34.983	1.00	0.00
ATOM	3181	CG	GLU	A	235	14.264	27.295	33.680	1.00	0.00
ATOM	3182	CD	GLU	A	235	14.314	25.796	33.775	1.00	0.00
ATOM	3183	OE1	GLU	A	235	14.748	25.298	34.785	1.00	0.00
ATOM	3184	OE2	GLU	A	235	13.815	25.147	32.885	1.00	0.00
ATOM	3185	H	GLU	A	235	16.477	29.137	33.692	1.00	0.00
ATOM	3186	HA	GLU	A	235	13.851	29.870	34.510	1.00	0.00
ATOM	3187	1HB	GLU	A	235	15.701	27.591	35.247	1.00	0.00
ATOM	3188	2HB	GLU	A	235	14.003	27.686	35.775	1.00	0.00
ATOM	3189	1HG	GLU	A	235	13.271	27.605	33.354	1.00	0.00
ATOM	3190	2HG	GLU	A	235	15.005	27.638	32.958	1.00	0.00
ATOM	3191	N	GLU	A	236	15.916	30.395	36.911	1.00	0.00
ATOM	3192	CA	GLU	A	236	15.966	30.937	38.272	1.00	0.00
ATOM	3193	C	GLU	A	236	16.268	32.457	38.343	1.00	0.00
ATOM	3194	O	GLU	A	236	15.928	33.100	39.328	1.00	0.00
ATOM	3195	CB	GLU	A	236	17.010	30.167	39.084	1.00	0.00
ATOM	3196	CG	GLU	A	236	16.710	28.684	39.248	1.00	0.00
ATOM	3197	CD	GLU	A	236	17.784	27.994	40.042	1.00	0.00
ATOM	3198	OE1	GLU	A	236	18.720	28.649	40.434	1.00	0.00
ATOM	3199	OE2	GLU	A	236	17.615	26.839	40.355	1.00	0.00
ATOM	3200	H	GLU	A	236	16.774	30.305	36.386	1.00	0.00
ATOM	3201	HA	GLU	A	236	14.991	30.831	38.748	1.00	0.00
ATOM	3202	1HB	GLU	A	236	17.965	30.290	38.573	1.00	0.00
ATOM	3203	2HB	GLU	A	236	17.059	30.637	40.067	1.00	0.00
ATOM	3204	1HG	GLU	A	236	15.739	28.485	39.701	1.00	0.00
ATOM	3205	2HG	GLU	A	236	16.716	28.307	38.226	1.00	0.00
ATOM	3206	N	ARG	A	237	16.872	33.044	37.312	1.00	0.00
ATOM	3207	CA	ARG	A	237	17.215	34.479	37.353	1.00	0.00
ATOM	3208	C	ARG	A	237	16.581	35.382	36.287	1.00	0.00
ATOM	3209	O	ARG	A	237	16.500	35.022	35.110	1.00	0.00

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ATOM	3210	CB	ARG	A	237	18.725	34.664	37.349	1.00	0.00
ATOM	3211	CG	ARG	A	237	19.192	36.111	37.345	1.00	0.00
ATOM	3212	CD	ARG	A	237	20.666	36.279	37.433	1.00	0.00
ATOM	3213	NE	ARG	A	237	21.118	37.660	37.388	1.00	0.00
ATOM	3214	CZ	ARG	A	237	22.398	38.051	37.542	1.00	0.00
ATOM	3215	NH1	ARG	A	237	23.349	37.177	37.789	1.00	0.00
ATOM	3216	NH2	ARG	A	237	22.671	39.342	37.462	1.00	0.00
ATOM	3217	H	ARG	A	237	17.101	32.507	36.488	1.00	0.00
ATOM	3218	HA	ARG	A	237	16.857	34.917	38.285	1.00	0.00
ATOM	3219	1HB	ARG	A	237	19.109	34.165	38.237	1.00	0.00
ATOM	3220	2HB	ARG	A	237	19.104	34.162	36.458	1.00	0.00
ATOM	3221	1HG	ARG	A	237	18.856	36.582	36.421	1.00	0.00
ATOM	3222	2HG	ARG	A	237	18.743	36.622	38.197	1.00	0.00
ATOM	3223	1HD	ARG	A	237	21.015	35.852	38.373	1.00	0.00
ATOM	3224	2HD	ARG	A	237	21.132	35.754	36.601	1.00	0.00
ATOM	3225	HE	ARG	A	237	20.587	38.508	37.242	1.00	0.00
ATOM	3226	1HH1	ARG	A	237	23.121	36.195	37.864	1.00	0.00
ATOM	3227	2HH1	ARG	A	237	24.302	37.490	37.901	1.00	0.00
ATOM	3228	1HH2	ARG	A	237	21.926	40.002	37.289	1.00	0.00
ATOM	3229	2HH2	ARG	A	237	23.621	39.662	37.574	1.00	0.00
ATOM	3230	N	THR	A	238	16.166	36.576	36.706	1.00	0.00
ATOM	3231	CA	THR	A	238	15.549	37.544	35.799	1.00	0.00
ATOM	3232	C	THR	A	238	16.170	38.924	35.947	1.00	0.00
ATOM	3233	O	THR	A	238	16.631	39.287	37.021	1.00	0.00
ATOM	3234	CB	THR	A	238	14.031	37.653	36.036	1.00	0.00
ATOM	3235	OG1	THR	A	238	13.425	36.365	35.873	1.00	0.00
ATOM	3236	CG2	THR	A	238	13.407	38.631	35.053	1.00	0.00
ATOM	3237	H	THR	A	238	16.282	36.818	37.680	1.00	0.00
ATOM	3238	HA	THR	A	238	15.720	37.242	34.765	1.00	0.00
ATOM	3239	HB	THR	A	238	13.856	38.001	37.054	1.00	0.00
ATOM	3240	HG1	THR	A	238	12.479	36.435	36.022	1.00	0.00
ATOM	3241	1HG2	THR	A	238	12.335	38.695	35.236	1.00	0.00
ATOM	3242	2HG2	THR	A	238	13.858	39.615	35.182	1.00	0.00
ATOM	3243	3HG2	THR	A	238	13.581	38.283	34.035	1.00	0.00
ATOM	3244	N	VAL	A	239	16.184	39.690	34.864	1.00	0.00
ATOM	3245	CA	VAL	A	239	16.748	41.037	34.882	1.00	0.00
ATOM	3246	C	VAL	A	239	15.903	41.944	34.005	1.00	0.00
ATOM	3247	O	VAL	A	239	15.005	41.478	33.300	1.00	0.00
ATOM	3248	CB	VAL	A	239	18.208	41.063	34.392	1.00	0.00
ATOM	3249	CG1	VAL	A	239	19.093	40.232	35.309	1.00	0.00
ATOM	3250	CG2	VAL	A	239	18.299	40.554	32.962	1.00	0.00
ATOM	3251	H	VAL	A	239	15.794	39.331	34.004	1.00	0.00
ATOM	3252	HA	VAL	A	239	16.717	41.467	35.884	1.00	0.00
ATOM	3253	HB	VAL	A	239	18.561	42.094	34.384	1.00	0.00
ATOM	3254	1HG1	VAL	A	239	20.121	40.262	34.948	1.00	0.00
ATOM	3255	2HG1	VAL	A	239	19.052	40.638	36.320	1.00	0.00
ATOM	3256	3HG1	VAL	A	239	18.741	39.200	35.317	1.00	0.00
ATOM	3257	1HG2	VAL	A	239	19.337	40.580	32.631	1.00	0.00
ATOM	3258	2HG2	VAL	A	239	17.929	39.530	32.917	1.00	0.00
ATOM	3259	3HG2	VAL	A	239	17.696	41.187	32.311	1.00	0.00
ATOM	3260	N	ARG	A	240	16.185	43.241	34.048	1.00	0.00
ATOM	3261	CA	ARG	A	240	15.432	44.176	33.233	1.00	0.00
ATOM	3262	C	ARG	A	240	16.346	44.856	32.231	1.00	0.00
ATOM	3263	O	ARG	A	240	17.337	45.494	32.601	1.00	0.00
ATOM	3264	CB	ARG	A	240	14.663	45.187	34.070	1.00	0.00
ATOM	3265	CG	ARG	A	240	13.461	44.622	34.811	1.00	0.00
ATOM	3266	CD	ARG	A	240	12.769	45.599	35.690	1.00	0.00
ATOM	3267	NE	ARG	A	240	11.701	45.031	36.498	1.00	0.00
ATOM	3268	CZ	ARG	A	240	10.433	44.859	36.079	1.00	0.00
ATOM	3269	NH1	ARG	A	240	10.058	45.242	34.878	1.00	0.00
ATOM	3270	NH2	ARG	A	240	9.566	44.316	36.916	1.00	0.00
ATOM	3271	H	ARG	A	240	16.922	43.590	34.644	1.00	0.00
ATOM	3272	HA	ARG	A	240	14.673	43.640	32.662	1.00	0.00

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ATOM	3273	1HB	ARG	A	240	15.365	45.604	34.791	1.00	0.00
ATOM	3274	2HB	ARG	A	240	14.329	45.973	33.393	1.00	0.00
ATOM	3275	1HG	ARG	A	240	12.740	44.261	34.077	1.00	0.00
ATOM	3276	2HG	ARG	A	240	13.796	43.789	35.430	1.00	0.00
ATOM	3277	1HD	ARG	A	240	13.496	46.038	36.372	1.00	0.00
ATOM	3278	2HD	ARG	A	240	12.330	46.382	35.073	1.00	0.00
ATOM	3279	HE	ARG	A	240	11.725	44.690	37.450	1.00	0.00
ATOM	3280	1HH1	ARG	A	240	10.729	45.672	34.256	1.00	0.00
ATOM	3281	2HH1	ARG	A	240	9.103	45.105	34.583	1.00	0.00
ATOM	3282	1HH2	ARG	A	240	9.866	44.043	37.842	1.00	0.00
ATOM	3283	2HH2	ARG	A	240	8.609	44.176	36.628	1.00	0.00
ATOM	3284	N	VAL	A	241	16.009	44.706	30.957	1.00	0.00
ATOM	3285	CA	VAL	A	241	16.789	45.314	29.898	1.00	0.00
ATOM	3286	C	VAL	A	241	15.839	46.075	28.982	1.00	0.00
ATOM	3287	O	VAL	A	241	14.684	45.694	28.818	1.00	0.00
ATOM	3288	CB	VAL	A	241	17.564	44.246	29.106	1.00	0.00
ATOM	3289	CG1	VAL	A	241	18.512	43.452	30.003	1.00	0.00
ATOM	3290	CG2	VAL	A	241	16.628	43.324	28.330	1.00	0.00
ATOM	3291	H	VAL	A	241	15.195	44.159	30.716	1.00	0.00
ATOM	3292	HA	VAL	A	241	17.495	46.045	30.295	1.00	0.00
ATOM	3293	HB	VAL	A	241	18.190	44.741	28.363	1.00	0.00
ATOM	3294	1HG1	VAL	A	241	19.041	42.708	29.406	1.00	0.00
ATOM	3295	2HG1	VAL	A	241	19.233	44.129	30.460	1.00	0.00
ATOM	3296	3HG1	VAL	A	241	17.940	42.950	30.783	1.00	0.00
ATOM	3297	1HG2	VAL	A	241	17.214	42.585	27.784	1.00	0.00
ATOM	3298	2HG2	VAL	A	241	15.960	42.816	29.026	1.00	0.00
ATOM	3299	3HG2	VAL	A	241	16.040	43.912	27.625	1.00	0.00
ATOM	3300	N	PRO	A	242	16.301	47.191	28.408	1.00	0.00
ATOM	3301	CA	PRO	A	242	15.409	47.928	27.515	1.00	0.00
ATOM	3302	C	PRO	A	242	15.055	47.051	26.312	1.00	0.00
ATOM	3303	O	PRO	A	242	15.932	46.457	25.685	1.00	0.00
ATOM	3304	CB	PRO	A	242	16.241	49.169	27.172	1.00	0.00
ATOM	3305	CG	PRO	A	242	17.700	48.750	27.355	1.00	0.00
ATOM	3306	CD	PRO	A	242	17.630	47.778	28.526	1.00	0.00
ATOM	3307	HA	PRO	A	242	14.453	48.191	27.991	1.00	0.00
ATOM	3308	1HB	PRO	A	242	16.060	49.503	26.140	1.00	0.00
ATOM	3309	2HB	PRO	A	242	15.995	50.014	27.832	1.00	0.00
ATOM	3310	1HG	PRO	A	242	18.096	48.278	26.444	1.00	0.00
ATOM	3311	2HG	PRO	A	242	18.339	49.619	27.571	1.00	0.00
ATOM	3312	1HD	PRO	A	242	18.408	47.003	28.470	1.00	0.00
ATOM	3313	2HD	PRO	A	242	17.751	48.285	29.495	1.00	0.00
ATOM	3314	N	MET	A	243	13.765	46.963	26.011	1.00	0.00
ATOM	3315	CA	MET	A	243	13.278	46.159	24.900	1.00	0.00
ATOM	3316	C	MET	A	243	12.639	47.034	23.854	1.00	0.00
ATOM	3317	O	MET	A	243	11.852	47.925	24.167	1.00	0.00
ATOM	3318	CB	MET	A	243	12.281	45.111	25.391	1.00	0.00
ATOM	3319	CG	MET	A	243	12.890	44.025	26.267	1.00	0.00
ATOM	3320	SD	MET	A	243	11.872	42.537	26.338	1.00	0.00
ATOM	3321	CE	MET	A	243	12.397	41.695	24.848	1.00	0.00
ATOM	3322	H	MET	A	243	13.102	47.474	26.576	1.00	0.00
ATOM	3323	HA	MET	A	243	14.111	45.645	24.420	1.00	0.00
ATOM	3324	1HB	MET	A	243	11.514	45.642	25.952	1.00	0.00
ATOM	3325	2HB	MET	A	243	11.836	44.656	24.505	1.00	0.00
ATOM	3326	1HG	MET	A	243	13.868	43.769	25.860	1.00	0.00
ATOM	3327	2HG	MET	A	243	13.008	44.426	27.273	1.00	0.00
ATOM	3328	1HE	MET	A	243	11.855	40.754	24.751	1.00	0.00
ATOM	3329	2HE	MET	A	243	12.190	42.325	23.982	1.00	0.00
ATOM	3330	3HE	MET	A	243	13.468	41.494	24.903	1.00	0.00
ATOM	3331	N	MET	A	244	12.974	46.792	22.602	1.00	0.00
ATOM	3332	CA	MET	A	244	12.350	47.566	21.559	1.00	0.00
ATOM	3333	C	MET	A	244	11.046	46.835	21.285	1.00	0.00
ATOM	3334	O	MET	A	244	10.912	45.646	21.597	1.00	0.00
ATOM	3335	CB	MET	A	244	13.229	47.663	20.314	1.00	0.00

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ATOM	3336	CG	MET	A	244	14.493	48.492	20.498	1.00	0.00
ATOM	3337	SD	MET	A	244	15.456	48.639	18.980	1.00	0.00
ATOM	3338	CE	MET	A	244	16.385	47.109	19.020	1.00	0.00
ATOM	3339	H	MET	A	244	13.651	46.085	22.352	1.00	0.00
ATOM	3340	HA	MET	A	244	12.161	48.580	21.911	1.00	0.00
ATOM	3341	1HB	MET	A	244	13.500	46.646	20.036	1.00	0.00
ATOM	3342	2HB	MET	A	244	12.617	48.105	19.526	1.00	0.00
ATOM	3343	1HG	MET	A	244	14.200	49.487	20.834	1.00	0.00
ATOM	3344	2HG	MET	A	244	15.103	48.015	21.264	1.00	0.00
ATOM	3345	1HE	MET	A	244	17.031	47.052	18.143	1.00	0.00
ATOM	3346	2HE	MET	A	244	16.996	47.078	19.924	1.00	0.00
ATOM	3347	3HE	MET	A	244	15.696	46.265	19.019	1.00	0.00
ATOM	3348	N	SER	A	245	10.078	47.545	20.723	1.00	0.00
ATOM	3349	CA	SER	A	245	8.782	46.947	20.482	1.00	0.00
ATOM	3350	C	SER	A	245	8.126	47.357	19.177	1.00	0.00
ATOM	3351	O	SER	A	245	8.353	48.451	18.653	1.00	0.00
ATOM	3352	CB	SER	A	245	7.861	47.280	21.640	1.00	0.00
ATOM	3353	OG	SER	A	245	8.339	46.772	22.855	1.00	0.00
ATOM	3354	H	SER	A	245	10.233	48.507	20.458	1.00	0.00
ATOM	3355	HA	SER	A	245	8.796	45.857	20.510	1.00	0.00
ATOM	3356	1HB	SER	A	245	7.777	48.363	21.717	1.00	0.00
ATOM	3357	2HB	SER	A	245	6.879	46.854	21.439	1.00	0.00
ATOM	3358	HG	SER	A	245	9.022	47.353	23.198	1.00	0.00
ATOM	3359	N	ASP	A	246	7.319	46.444	18.660	1.00	0.00
ATOM	3360	CA	ASP	A	246	6.561	46.660	17.449	1.00	0.00
ATOM	3361	C	ASP	A	246	5.474	45.610	17.511	1.00	0.00
ATOM	3362	O	ASP	A	246	5.711	44.446	17.194	1.00	0.00
ATOM	3363	CB	ASP	A	246	7.418	46.524	16.188	1.00	0.00
ATOM	3364	CG	ASP	A	246	6.686	46.847	14.892	1.00	0.00
ATOM	3365	OD1	ASP	A	246	5.491	47.020	14.935	1.00	0.00
ATOM	3366	OD2	ASP	A	246	7.342	47.073	13.904	1.00	0.00
ATOM	3367	H	ASP	A	246	7.236	45.560	19.141	1.00	0.00
ATOM	3368	HA	ASP	A	246	6.138	47.665	17.452	1.00	0.00
ATOM	3369	1HB	ASP	A	246	8.347	47.091	16.231	1.00	0.00
ATOM	3370	2HB	ASP	A	246	7.640	45.457	16.222	1.00	0.00
ATOM	3371	N	PRO	A	247	4.265	46.009	17.939	1.00	0.00
ATOM	3372	CA	PRO	A	247	3.112	45.112	18.064	1.00	0.00
ATOM	3373	C	PRO	A	247	2.530	44.640	16.735	1.00	0.00
ATOM	3374	O	PRO	A	247	1.757	43.681	16.696	1.00	0.00
ATOM	3375	CB	PRO	A	247	2.098	45.948	18.851	1.00	0.00
ATOM	3376	CG	PRO	A	247	2.465	47.360	18.547	1.00	0.00
ATOM	3377	CD	PRO	A	247	3.965	47.364	18.418	1.00	0.00
ATOM	3378	HA	PRO	A	247	3.360	44.169	18.572	1.00	0.00
ATOM	3379	1HB	PRO	A	247	1.066	45.729	18.539	1.00	0.00
ATOM	3380	2HB	PRO	A	247	2.159	45.745	19.930	1.00	0.00
ATOM	3381	1HG	PRO	A	247	1.987	47.704	17.617	1.00	0.00
ATOM	3382	2HG	PRO	A	247	2.135	48.039	19.348	1.00	0.00
ATOM	3383	1HD	PRO	A	247	4.319	48.119	17.700	1.00	0.00
ATOM	3384	2HD	PRO	A	247	4.464	47.573	19.375	1.00	0.00
ATOM	3385	N	LYS	A	248	2.901	45.308	15.648	1.00	0.00
ATOM	3386	CA	LYS	A	248	2.405	44.928	14.331	1.00	0.00
ATOM	3387	C	LYS	A	248	3.573	44.838	13.353	1.00	0.00
ATOM	3388	O	LYS	A	248	3.579	45.487	12.306	1.00	0.00
ATOM	3389	CB	LYS	A	248	1.361	45.927	13.831	1.00	0.00
ATOM	3390	CG	LYS	A	248	0.087	45.976	14.664	1.00	0.00
ATOM	3391	CD	LYS	A	248	-0.933	46.930	14.060	1.00	0.00
ATOM	3392	CE	LYS	A	248	-2.167	47.052	14.942	1.00	0.00
ATOM	3393	NZ	LYS	A	248	-3.174	47.984	14.364	1.00	0.00
ATOM	3394	H	LYS	A	248	3.535	46.090	15.728	1.00	0.00
ATOM	3395	HA	LYS	A	248	1.941	43.942	14.382	1.00	0.00
ATOM	3396	1HB	LYS	A	248	1.833	46.910	13.832	1.00	0.00
ATOM	3397	2HB	LYS	A	248	1.113	45.646	12.807	1.00	0.00
ATOM	3398	1HG	LYS	A	248	-0.336	44.972	14.710	1.00	0.00

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ATOM	3399	2HG	LYS	A	248	0.344	46.308	15.670	1.00	0.00
ATOM	3400	1HD	LYS	A	248	-0.468	47.910	13.947	1.00	0.00
ATOM	3401	2HD	LYS	A	248	-1.224	46.552	13.080	1.00	0.00
ATOM	3402	1HE	LYS	A	248	-2.609	46.063	15.051	1.00	0.00
ATOM	3403	2HE	LYS	A	248	-1.853	47.419	15.919	1.00	0.00
ATOM	3404	1HZ	LYS	A	248	-3.974	48.037	14.978	1.00	0.00
ATOM	3405	2HZ	LYS	A	248	-2.765	48.902	14.263	1.00	0.00
ATOM	3406	3HZ	LYS	A	248	-3.465	47.644	13.459	1.00	0.00
ATOM	3407	N	ALA	A	249	4.563	44.024	13.714	1.00	0.00
ATOM	3408	CA	ALA	A	249	5.761	43.817	12.903	1.00	0.00
ATOM	3409	C	ALA	A	249	5.542	42.784	11.805	1.00	0.00
ATOM	3410	O	ALA	A	249	4.847	41.786	11.997	1.00	0.00
ATOM	3411	CB	ALA	A	249	6.933	43.369	13.776	1.00	0.00
ATOM	3412	H	ALA	A	249	4.472	43.532	14.591	1.00	0.00
ATOM	3413	HA	ALA	A	249	6.013	44.754	12.407	1.00	0.00
ATOM	3414	1HB	ALA	A	249	7.814	43.221	13.152	1.00	0.00
ATOM	3415	2HB	ALA	A	249	7.143	44.133	14.524	1.00	0.00
ATOM	3416	3HB	ALA	A	249	6.680	42.434	14.273	1.00	0.00
ATOM	3417	N	VAL	A	250	6.136	43.029	10.646	1.00	0.00
ATOM	3418	CA	VAL	A	250	6.011	42.103	9.539	1.00	0.00
ATOM	3419	C	VAL	A	250	7.375	41.474	9.289	1.00	0.00
ATOM	3420	O	VAL	A	250	8.305	42.133	8.821	1.00	0.00
ATOM	3421	CB	VAL	A	250	5.506	42.791	8.257	1.00	0.00
ATOM	3422	CG1	VAL	A	250	5.415	41.790	7.115	1.00	0.00
ATOM	3423	CG2	VAL	A	250	4.154	43.444	8.500	1.00	0.00
ATOM	3424	H	VAL	A	250	6.684	43.869	10.525	1.00	0.00
ATOM	3425	HA	VAL	A	250	5.328	41.287	9.779	1.00	0.00
ATOM	3426	HB	VAL	A	250	6.198	43.589	7.987	1.00	0.00
ATOM	3427	1HG1	VAL	A	250	5.057	42.294	6.217	1.00	0.00
ATOM	3428	2HG1	VAL	A	250	6.401	41.366	6.924	1.00	0.00
ATOM	3429	3HG1	VAL	A	250	4.722	40.993	7.384	1.00	0.00
ATOM	3430	1HG2	VAL	A	250	3.812	43.926	7.585	1.00	0.00
ATOM	3431	2HG2	VAL	A	250	3.433	42.684	8.801	1.00	0.00
ATOM	3432	3HG2	VAL	A	250	4.246	44.190	9.290	1.00	0.00
ATOM	3433	N	LEU	A	251	7.479	40.193	9.628	1.00	0.00
ATOM	3434	CA	LEU	A	251	8.714	39.435	9.484	1.00	0.00
ATOM	3435	C	LEU	A	251	8.433	38.039	8.919	1.00	0.00
ATOM	3436	O	LEU	A	251	7.278	37.632	8.798	1.00	0.00
ATOM	3437	CB	LEU	A	251	9.434	39.336	10.835	1.00	0.00
ATOM	3438	CG	LEU	A	251	8.593	38.765	11.983	1.00	0.00
ATOM	3439	CD1	LEU	A	251	8.543	37.246	11.888	1.00	0.00
ATOM	3440	CD2	LEU	A	251	9.185	39.203	13.314	1.00	0.00
ATOM	3441	H	LEU	A	251	6.660	39.734	10.001	1.00	0.00
ATOM	3442	HA	LEU	A	251	9.368	39.935	8.770	1.00	0.00
ATOM	3443	1HB	LEU	A	251	10.222	38.635	10.564	1.00	0.00
ATOM	3444	2HB	LEU	A	251	9.879	40.288	11.125	1.00	0.00
ATOM	3445	HG	LEU	A	251	7.596	39.200	11.902	1.00	0.00
ATOM	3446	1HD1	LEU	A	251	7.943	36.850	12.708	1.00	0.00
ATOM	3447	2HD1	LEU	A	251	8.095	36.955	10.938	1.00	0.00
ATOM	3448	3HD1	LEU	A	251	9.553	36.844	11.952	1.00	0.00
ATOM	3449	1HD2	LEU	A	251	8.585	38.797	14.130	1.00	0.00
ATOM	3450	2HD2	LEU	A	251	10.208	38.835	13.397	1.00	0.00
ATOM	3451	3HD2	LEU	A	251	9.185	40.292	13.372	1.00	0.00
ATOM	3452	N	ARG	A	252	9.485	37.315	8.551	1.00	0.00
ATOM	3453	CA	ARG	A	252	9.315	35.966	8.025	1.00	0.00
ATOM	3454	C	ARG	A	252	9.532	34.982	9.183	1.00	0.00
ATOM	3455	O	ARG	A	252	10.576	34.966	9.823	1.00	0.00
ATOM	3456	CB	ARG	A	252	10.214	35.673	6.833	1.00	0.00
ATOM	3457	CG	ARG	A	252	9.790	36.338	5.533	1.00	0.00
ATOM	3458	CD	ARG	A	252	10.630	35.983	4.361	1.00	0.00
ATOM	3459	NE	ARG	A	252	10.532	34.592	3.949	1.00	0.00
ATOM	3460	CZ	ARG	A	252	11.400	33.975	3.123	1.00	0.00
ATOM	3461	NH1	ARG	A	252	12.407	34.630	2.588	1.00	0.00

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ATOM	3462	NH2	ARG	A	252	11.197	32.699	2.844	1.00	0.00
ATOM	3463	H	ARG	A	252	10.416	37.697	8.634	1.00	0.00
ATOM	3464	HA	ARG	A	252	8.299	35.842	7.648	1.00	0.00
ATOM	3465	1HB	ARG	A	252	11.215	36.011	7.099	1.00	0.00
ATOM	3466	2HB	ARG	A	252	10.220	34.592	6.697	1.00	0.00
ATOM	3467	1HG	ARG	A	252	8.763	36.045	5.312	1.00	0.00
ATOM	3468	2HG	ARG	A	252	9.838	37.420	5.666	1.00	0.00
ATOM	3469	1HD	ARG	A	252	10.330	36.596	3.511	1.00	0.00
ATOM	3470	2HD	ARG	A	252	11.674	36.180	4.600	1.00	0.00
ATOM	3471	HE	ARG	A	252	9.843	33.893	4.196	1.00	0.00
ATOM	3472	1HH1	ARG	A	252	12.537	35.609	2.797	1.00	0.00
ATOM	3473	2HH1	ARG	A	252	13.046	34.150	1.971	1.00	0.00
ATOM	3474	1HH2	ARG	A	252	10.408	32.216	3.250	1.00	0.00
ATOM	3475	2HH2	ARG	A	252	11.832	32.214	2.227	1.00	0.00
ATOM	3476	N	TYR	A	253	8.529	34.156	9.443	1.00	0.00
ATOM	3477	CA	TYR	A	253	8.558	33.239	10.575	1.00	0.00
ATOM	3478	C	TYR	A	253	8.487	31.749	10.230	1.00	0.00
ATOM	3479	O	TYR	A	253	8.184	31.373	9.096	1.00	0.00
ATOM	3480	CB	TYR	A	253	7.444	33.717	11.524	1.00	0.00
ATOM	3481	CG	TYR	A	253	7.204	32.799	12.698	1.00	0.00
ATOM	3482	CD1	TYR	A	253	6.136	31.908	12.654	1.00	0.00
ATOM	3483	CD2	TYR	A	253	8.048	32.825	13.801	1.00	0.00
ATOM	3484	CE1	TYR	A	253	5.938	31.010	13.693	1.00	0.00
ATOM	3485	CE2	TYR	A	253	7.844	31.928	14.843	1.00	0.00
ATOM	3486	CZ	TYR	A	253	6.796	31.016	14.783	1.00	0.00
ATOM	3487	OH	TYR	A	253	6.602	30.110	15.805	1.00	0.00
ATOM	3488	H	TYR	A	253	7.721	34.164	8.837	1.00	0.00
ATOM	3489	HA	TYR	A	253	9.507	33.334	11.104	1.00	0.00
ATOM	3490	1HB	TYR	A	253	7.732	34.704	11.888	1.00	0.00
ATOM	3491	2HB	TYR	A	253	6.531	33.799	10.934	1.00	0.00
ATOM	3492	HD1	TYR	A	253	5.465	31.933	11.795	1.00	0.00
ATOM	3493	HD2	TYR	A	253	8.858	33.554	13.827	1.00	0.00
ATOM	3494	HE1	TYR	A	253	5.103	30.310	13.664	1.00	0.00
ATOM	3495	HE2	TYR	A	253	8.506	31.939	15.709	1.00	0.00
ATOM	3496	HH	TYR	A	253	7.248	30.196	16.510	1.00	0.00
ATOM	3497	N	GLY	A	254	8.781	30.912	11.224	1.00	0.00
ATOM	3498	CA	GLY	A	254	8.736	29.474	11.045	1.00	0.00
ATOM	3499	C	GLY	A	254	9.160	28.754	12.309	1.00	0.00
ATOM	3500	O	GLY	A	254	10.138	29.150	12.942	1.00	0.00
ATOM	3501	H	GLY	A	254	9.042	31.288	12.125	1.00	0.00
ATOM	3502	1HA	GLY	A	254	7.718	29.178	10.791	1.00	0.00
ATOM	3503	2HA	GLY	A	254	9.407	29.195	10.234	1.00	0.00
ATOM	3504	N	LEU	A	255	8.431	27.704	12.686	1.00	0.00
ATOM	3505	CA	LEU	A	255	8.752	26.922	13.883	1.00	0.00
ATOM	3506	C	LEU	A	255	9.361	25.572	13.475	1.00	0.00
ATOM	3507	O	LEU	A	255	8.773	24.844	12.684	1.00	0.00
ATOM	3508	CB	LEU	A	255	7.435	26.771	14.668	1.00	0.00
ATOM	3509	CG	LEU	A	255	7.383	25.950	15.968	1.00	0.00
ATOM	3510	CD1	LEU	A	255	7.234	24.442	15.750	1.00	0.00
ATOM	3511	CD2	LEU	A	255	8.513	26.303	16.926	1.00	0.00
ATOM	3512	H	LEU	A	255	7.632	27.441	12.126	1.00	0.00
ATOM	3513	HA	LEU	A	255	9.500	27.450	14.474	1.00	0.00
ATOM	3514	1HB	LEU	A	255	7.260	27.815	14.923	1.00	0.00
ATOM	3515	2HB	LEU	A	255	6.625	26.412	14.033	1.00	0.00
ATOM	3516	HG	LEU	A	255	6.454	26.208	16.477	1.00	0.00
ATOM	3517	1HD1	LEU	A	255	7.205	23.935	16.715	1.00	0.00
ATOM	3518	2HD1	LEU	A	255	6.309	24.242	15.209	1.00	0.00
ATOM	3519	3HD1	LEU	A	255	8.081	24.073	15.172	1.00	0.00
ATOM	3520	1HD2	LEU	A	255	8.428	25.695	17.827	1.00	0.00
ATOM	3521	2HD2	LEU	A	255	9.472	26.109	16.445	1.00	0.00
ATOM	3522	3HD2	LEU	A	255	8.448	27.358	17.193	1.00	0.00
ATOM	3523	N	ASP	A	256	10.542	25.248	14.001	1.00	0.00
ATOM	3524	CA	ASP	A	256	11.209	23.974	13.690	1.00	0.00

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ATOM	3525	C	ASP	A	256	10.955	23.042	14.864	1.00	0.00
ATOM	3526	O	ASP	A	256	11.579	23.176	15.915	1.00	0.00
ATOM	3527	CB	ASP	A	256	12.710	24.157	13.452	1.00	0.00
ATOM	3528	CG	ASP	A	256	13.451	22.876	13.093	1.00	0.00
ATOM	3529	OD1	ASP	A	256	12.840	21.834	13.115	1.00	0.00
ATOM	3530	OD2	ASP	A	256	14.571	22.966	12.649	1.00	0.00
ATOM	3531	H	ASP	A	256	10.991	25.897	14.631	1.00	0.00
ATOM	3532	HA	ASP	A	256	10.777	23.542	12.787	1.00	0.00
ATOM	3533	1HB	ASP	A	256	12.943	24.929	12.718	1.00	0.00
ATOM	3534	2HB	ASP	A	256	13.021	24.491	14.443	1.00	0.00
ATOM	3535	N	SER	A	257	10.036	22.102	14.679	1.00	0.00
ATOM	3536	CA	SER	A	257	9.672	21.158	15.728	1.00	0.00
ATOM	3537	C	SER	A	257	10.845	20.359	16.275	1.00	0.00
ATOM	3538	O	SER	A	257	10.933	20.132	17.478	1.00	0.00
ATOM	3539	CB	SER	A	257	8.609	20.211	15.205	1.00	0.00
ATOM	3540	OG	SER	A	257	9.086	19.411	14.158	1.00	0.00
ATOM	3541	H	SER	A	257	9.576	22.042	13.782	1.00	0.00
ATOM	3542	HA	SER	A	257	9.161	21.624	16.572	1.00	0.00
ATOM	3543	1HB	SER	A	257	8.283	19.568	16.023	1.00	0.00
ATOM	3544	2HB	SER	A	257	7.765	20.798	14.847	1.00	0.00
ATOM	3545	HG	SER	A	257	8.385	18.828	13.857	1.00	0.00
ATOM	3546	N	ASP	A	258	11.741	19.934	15.393	1.00	0.00
ATOM	3547	CA	ASP	A	258	12.901	19.144	15.792	1.00	0.00
ATOM	3548	C	ASP	A	258	13.859	19.920	16.696	1.00	0.00
ATOM	3549	O	ASP	A	258	14.182	19.474	17.799	1.00	0.00
ATOM	3550	CB	ASP	A	258	13.648	18.646	14.552	1.00	0.00
ATOM	3551	CG	ASP	A	258	12.922	17.555	13.777	1.00	0.00
ATOM	3552	OD1	ASP	A	258	11.962	17.028	14.288	1.00	0.00
ATOM	3553	OD2	ASP	A	258	13.232	17.366	12.625	1.00	0.00
ATOM	3554	H	ASP	A	258	11.615	20.165	14.418	1.00	0.00
ATOM	3555	HA	ASP	A	258	12.578	18.283	16.378	1.00	0.00
ATOM	3556	1HB	ASP	A	258	13.937	19.445	13.869	1.00	0.00
ATOM	3557	2HB	ASP	A	258	14.538	18.226	15.021	1.00	0.00
ATOM	3558	N	LEU	A	259	14.327	21.069	16.217	1.00	0.00
ATOM	3559	CA	LEU	A	259	15.240	21.898	16.995	1.00	0.00
ATOM	3560	C	LEU	A	259	14.515	22.440	18.211	1.00	0.00
ATOM	3561	O	LEU	A	259	15.142	22.834	19.195	1.00	0.00
ATOM	3562	CB	LEU	A	259	15.799	23.043	16.141	1.00	0.00
ATOM	3563	CG	LEU	A	259	16.723	22.612	14.995	1.00	0.00
ATOM	3564	CD1	LEU	A	259	17.272	23.839	14.278	1.00	0.00
ATOM	3565	CD2	LEU	A	259	17.855	21.759	15.548	1.00	0.00
ATOM	3566	H	LEU	A	259	14.047	21.376	15.297	1.00	0.00
ATOM	3567	HA	LEU	A	259	16.072	21.291	17.350	1.00	0.00
ATOM	3568	1HB	LEU	A	259	14.866	23.438	15.741	1.00	0.00
ATOM	3569	2HB	LEU	A	259	16.282	23.805	16.754	1.00	0.00
ATOM	3570	HG	LEU	A	259	16.134	21.990	14.321	1.00	0.00
ATOM	3571	1HD1	LEU	A	259	17.927	23.523	13.466	1.00	0.00
ATOM	3572	2HD1	LEU	A	259	16.446	24.422	13.871	1.00	0.00
ATOM	3573	3HD1	LEU	A	259	17.836	24.449	14.982	1.00	0.00
ATOM	3574	1HD2	LEU	A	259	18.510	21.453	14.732	1.00	0.00
ATOM	3575	2HD2	LEU	A	259	18.425	22.337	16.275	1.00	0.00
ATOM	3576	3HD2	LEU	A	259	17.441	20.874	16.031	1.00	0.00
ATOM	3577	N	SER	A	260	13.190	22.464	18.128	1.00	0.00
ATOM	3578	CA	SER	A	260	12.365	22.964	19.212	1.00	0.00
ATOM	3579	C	SER	A	260	12.598	24.468	19.405	1.00	0.00
ATOM	3580	O	SER	A	260	12.849	24.934	20.523	1.00	0.00
ATOM	3581	CB	SER	A	260	12.662	22.202	20.489	1.00	0.00
ATOM	3582	OG	SER	A	260	12.406	20.831	20.356	1.00	0.00
ATOM	3583	H	SER	A	260	12.745	22.125	17.287	1.00	0.00
ATOM	3584	HA	SER	A	260	11.302	22.756	19.079	1.00	0.00
ATOM	3585	1HB	SER	A	260	13.713	22.344	20.742	1.00	0.00
ATOM	3586	2HB	SER	A	260	12.040	22.603	21.288	1.00	0.00
ATOM	3587	HG	SER	A	260	12.957	20.470	19.657	1.00	0.00

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ATOM	3588	N	CYS	A	261	12.520	25.225	18.310	1.00	0.00
ATOM	3589	CA	CYS	A	261	12.725	26.672	18.380	1.00	0.00
ATOM	3590	C	CYS	A	261	11.964	27.464	17.316	1.00	0.00
ATOM	3591	O	CYS	A	261	11.554	26.917	16.292	1.00	0.00
ATOM	3592	CB	CYS	A	261	14.231	26.791	18.146	1.00	0.00
ATOM	3593	SG	CYS	A	261	14.783	26.229	16.518	1.00	0.00
ATOM	3594	H	CYS	A	261	12.317	24.800	17.417	1.00	0.00
ATOM	3595	HA	CYS	A	261	12.482	27.098	19.354	1.00	0.00
ATOM	3596	1HB	CYS	A	261	14.545	27.832	18.228	1.00	0.00
ATOM	3597	2HB	CYS	A	261	14.774	26.189	18.874	1.00	0.00
ATOM	3598	HG	CYS	A	261	15.939	26.885	16.529	1.00	0.00
ATOM	3599	N	LYS	A	262	11.791	28.759	17.579	1.00	0.00
ATOM	3600	CA	LYS	A	262	11.090	29.677	16.677	1.00	0.00
ATOM	3601	C	LYS	A	262	12.076	30.555	15.914	1.00	0.00
ATOM	3602	O	LYS	A	262	12.846	31.302	16.517	1.00	0.00
ATOM	3603	CB	LYS	A	262	10.104	30.550	17.456	1.00	0.00
ATOM	3604	CG	LYS	A	262	9.063	29.770	18.247	1.00	0.00
ATOM	3605	CD	LYS	A	262	8.169	30.701	19.053	1.00	0.00
ATOM	3606	CE	LYS	A	262	7.112	29.924	19.824	1.00	0.00
ATOM	3607	NZ	LYS	A	262	6.207	30.825	20.588	1.00	0.00
ATOM	3608	H	LYS	A	262	12.167	29.113	18.447	1.00	0.00
ATOM	3609	HA	LYS	A	262	10.535	29.108	15.930	1.00	0.00
ATOM	3610	1HB	LYS	A	262	10.692	31.165	18.138	1.00	0.00
ATOM	3611	2HB	LYS	A	262	9.603	31.191	16.731	1.00	0.00
ATOM	3612	1HG	LYS	A	262	8.454	29.197	17.547	1.00	0.00
ATOM	3613	2HG	LYS	A	262	9.579	29.087	18.921	1.00	0.00
ATOM	3614	1HD	LYS	A	262	8.792	31.260	19.753	1.00	0.00
ATOM	3615	2HD	LYS	A	262	7.682	31.394	18.368	1.00	0.00
ATOM	3616	1HE	LYS	A	262	6.528	29.343	19.111	1.00	0.00
ATOM	3617	2HE	LYS	A	262	7.619	29.249	20.513	1.00	0.00
ATOM	3618	1HZ	LYS	A	262	5.522	30.272	21.084	1.00	0.00
ATOM	3619	2HZ	LYS	A	262	6.747	31.364	21.250	1.00	0.00
ATOM	3620	3HZ	LYS	A	262	5.736	31.450	19.949	1.00	0.00
ATOM	3621	N	ILE	A	263	12.036	30.468	14.586	1.00	0.00
ATOM	3622	CA	ILE	A	263	12.930	31.241	13.720	1.00	0.00
ATOM	3623	C	ILE	A	263	12.233	32.449	13.082	1.00	0.00
ATOM	3624	O	ILE	A	263	11.163	32.319	12.497	1.00	0.00
ATOM	3625	CB	ILE	A	263	13.517	30.360	12.602	1.00	0.00
ATOM	3626	CG1	ILE	A	263	14.218	29.137	13.200	1.00	0.00
ATOM	3627	CG2	ILE	A	263	14.481	31.163	11.743	1.00	0.00
ATOM	3628	CD1	ILE	A	263	14.617	28.100	12.174	1.00	0.00
ATOM	3629	H	ILE	A	263	11.362	29.844	14.166	1.00	0.00
ATOM	3630	HA	ILE	A	263	13.738	31.684	14.300	1.00	0.00
ATOM	3631	HB	ILE	A	263	12.704	29.984	11.982	1.00	0.00
ATOM	3632	1HG1	ILE	A	263	15.107	29.494	13.720	1.00	0.00
ATOM	3633	2HG1	ILE	A	263	13.532	28.690	13.920	1.00	0.00
ATOM	3634	1HG2	ILE	A	263	14.888	30.525	10.959	1.00	0.00
ATOM	3635	2HG2	ILE	A	263	13.954	32.002	11.291	1.00	0.00
ATOM	3636	3HG2	ILE	A	263	15.296	31.539	12.363	1.00	0.00
ATOM	3637	1HD1	ILE	A	263	15.107	27.264	12.673	1.00	0.00
ATOM	3638	2HD1	ILE	A	263	13.728	27.741	11.654	1.00	0.00
ATOM	3639	3HD1	ILE	A	263	15.303	28.544	11.455	1.00	0.00
ATOM	3640	N	ALA	A	264	12.839	33.625	13.200	1.00	0.00
ATOM	3641	CA	ALA	A	264	12.273	34.831	12.606	1.00	0.00
ATOM	3642	C	ALA	A	264	13.365	35.593	11.866	1.00	0.00
ATOM	3643	O	ALA	A	264	14.529	35.589	12.272	1.00	0.00
ATOM	3644	CB	ALA	A	264	11.656	35.745	13.663	1.00	0.00
ATOM	3645	H	ALA	A	264	13.708	33.689	13.710	1.00	0.00
ATOM	3646	HA	ALA	A	264	11.508	34.540	11.886	1.00	0.00
ATOM	3647	1HB	ALA	A	264	11.245	36.632	13.181	1.00	0.00
ATOM	3648	2HB	ALA	A	264	10.859	35.214	14.184	1.00	0.00
ATOM	3649	3HB	ALA	A	264	12.422	36.043	14.378	1.00	0.00
ATOM	3650	N	GLN	A	265	12.984	36.252	10.779	1.00	0.00

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ATOM	3651	CA	GLN	A	265	13.939	37.003	9.983	1.00	0.00
ATOM	3652	C	GLN	A	265	13.511	38.445	9.748	1.00	0.00
ATOM	3653	O	GLN	A	265	12.432	38.709	9.214	1.00	0.00
ATOM	3654	CB	GLN	A	265	14.153	36.311	8.634	1.00	0.00
ATOM	3655	CG	GLN	A	265	15.175	36.991	7.740	1.00	0.00
ATOM	3656	CD	GLN	A	265	15.273	36.341	6.374	1.00	0.00
ATOM	3657	OE1	GLN	A	265	14.462	36.609	5.483	1.00	0.00
ATOM	3658	NE2	GLN	A	265	16.267	35.477	6.200	1.00	0.00
ATOM	3659	H	GLN	A	265	12.014	36.234	10.496	1.00	0.00
ATOM	3660	HA	GLN	A	265	14.888	37.066	10.515	1.00	0.00
ATOM	3661	1HB	GLN	A	265	14.472	35.291	8.851	1.00	0.00
ATOM	3662	2HB	GLN	A	265	13.184	36.289	8.135	1.00	0.00
ATOM	3663	1HG	GLN	A	265	15.210	38.071	7.600	1.00	0.00
ATOM	3664	2HG	GLN	A	265	16.034	36.676	8.335	1.00	0.00
ATOM	3665	1HE2	GLN	A	265	16.382	35.016	5.320	1.00	0.00
ATOM	3666	2HE2	GLN	A	265	16.901	35.287	6.950	1.00	0.00
ATOM	3667	N	LEU	A	266	14.372	39.377	10.145	1.00	0.00
ATOM	3668	CA	LEU	A	266	14.100	40.798	9.990	1.00	0.00
ATOM	3669	C	LEU	A	266	15.097	41.359	8.992	1.00	0.00
ATOM	3670	O	LEU	A	266	16.285	41.071	9.070	1.00	0.00
ATOM	3671	CB	LEU	A	266	14.192	41.530	11.335	1.00	0.00
ATOM	3672	CG	LEU	A	266	13.072	41.206	12.332	1.00	0.00
ATOM	3673	CD1	LEU	A	266	13.445	41.714	13.718	1.00	0.00
ATOM	3674	CD2	LEU	A	266	11.771	41.837	11.858	1.00	0.00
ATOM	3675	H	LEU	A	266	15.242	39.086	10.567	1.00	0.00
ATOM	3676	HA	LEU	A	266	13.096	40.936	9.591	1.00	0.00
ATOM	3677	1HB	LEU	A	266	15.138	41.126	11.692	1.00	0.00
ATOM	3678	2HB	LEU	A	266	14.284	42.608	11.203	1.00	0.00
ATOM	3679	HG	LEU	A	266	12.938	40.124	12.329	1.00	0.00
ATOM	3680	1HD1	LEU	A	266	12.643	41.480	14.420	1.00	0.00
ATOM	3681	2HD1	LEU	A	266	14.365	41.232	14.047	1.00	0.00
ATOM	3682	3HD1	LEU	A	266	13.591	42.793	13.683	1.00	0.00
ATOM	3683	1HD2	LEU	A	266	10.976	41.606	12.567	1.00	0.00
ATOM	3684	2HD2	LEU	A	266	11.894	42.918	11.790	1.00	0.00
ATOM	3685	3HD2	LEU	A	266	11.509	41.439	10.878	1.00	0.00
ATOM	3686	N	PRO	A	267	14.626	42.160	8.028	1.00	0.00
ATOM	3687	CA	PRO	A	267	15.536	42.736	7.035	1.00	0.00
ATOM	3688	C	PRO	A	267	16.252	44.013	7.476	1.00	0.00
ATOM	3689	O	PRO	A	267	15.744	44.797	8.290	1.00	0.00
ATOM	3690	CB	PRO	A	267	14.597	42.931	5.844	1.00	0.00
ATOM	3691	CG	PRO	A	267	13.243	43.261	6.472	1.00	0.00
ATOM	3692	CD	PRO	A	267	13.223	42.449	7.760	1.00	0.00
ATOM	3693	HA	PRO	A	267	16.373	42.067	6.786	1.00	0.00
ATOM	3694	1HB	PRO	A	267	14.940	43.746	5.189	1.00	0.00
ATOM	3695	2HB	PRO	A	267	14.537	42.024	5.225	1.00	0.00
ATOM	3696	1HG	PRO	A	267	13.148	44.339	6.669	1.00	0.00
ATOM	3697	2HG	PRO	A	267	12.416	42.982	5.803	1.00	0.00
ATOM	3698	1HD	PRO	A	267	12.777	43.007	8.597	1.00	0.00
ATOM	3699	2HD	PRO	A	267	12.650	41.516	7.655	1.00	0.00
ATOM	3700	N	LEU	A	268	17.445	44.200	6.923	1.00	0.00
ATOM	3701	CA	LEU	A	268	18.258	45.378	7.181	1.00	0.00
ATOM	3702	C	LEU	A	268	18.482	46.016	5.825	1.00	0.00
ATOM	3703	O	LEU	A	268	18.402	45.355	4.791	1.00	0.00
ATOM	3704	CB	LEU	A	268	19.582	45.021	7.867	1.00	0.00
ATOM	3705	CG	LEU	A	268	19.493	44.793	9.382	1.00	0.00
ATOM	3706	CD1	LEU	A	268	19.132	43.342	9.671	1.00	0.00
ATOM	3707	CD2	LEU	A	268	20.819	45.159	10.031	1.00	0.00
ATOM	3708	H	LEU	A	268	17.795	43.488	6.298	1.00	0.00
ATOM	3709	HA	LEU	A	268	17.714	46.061	7.832	1.00	0.00
ATOM	3710	1HB	LEU	A	268	19.797	44.081	7.360	1.00	0.00
ATOM	3711	2HB	LEU	A	268	20.364	45.744	7.637	1.00	0.00
ATOM	3712	HG	LEU	A	268	18.734	45.475	9.767	1.00	0.00
ATOM	3713	1HD1	LEU	A	268	19.070	43.190	10.749	1.00	0.00

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ATOM	3714	2HD1	LEU	A	268	18.169	43.109	9.217	1.00	0.00
ATOM	3715	3HD1	LEU	A	268	19.897	42.688	9.256	1.00	0.00
ATOM	3716	1HD2	LEU	A	268	20.753	44.997	11.107	1.00	0.00
ATOM	3717	2HD2	LEU	A	268	21.612	44.535	9.617	1.00	0.00
ATOM	3718	3HD2	LEU	A	268	21.044	46.207	9.835	1.00	0.00
ATOM	3719	N	THR	A	269	18.760	47.306	5.832	1.00	0.00
ATOM	3720	CA	THR	A	269	19.017	48.036	4.605	1.00	0.00
ATOM	3721	C	THR	A	269	20.357	47.571	4.027	1.00	0.00
ATOM	3722	O	THR	A	269	21.270	47.195	4.766	1.00	0.00
ATOM	3723	CB	THR	A	269	19.045	49.558	4.835	1.00	0.00
ATOM	3724	OG1	THR	A	269	20.070	49.883	5.782	1.00	0.00
ATOM	3725	CG2	THR	A	269	17.702	50.043	5.360	1.00	0.00
ATOM	3726	H	THR	A	269	18.795	47.798	6.714	1.00	0.00
ATOM	3727	HA	THR	A	269	18.241	47.812	3.873	1.00	0.00
ATOM	3728	HB	THR	A	269	19.265	50.055	3.890	1.00	0.00
ATOM	3729	HG1	THR	A	269	20.302	50.811	5.697	1.00	0.00
ATOM	3730	1HG2	THR	A	269	17.741	51.121	5.515	1.00	0.00
ATOM	3731	2HG2	THR	A	269	16.922	49.808	4.636	1.00	0.00
ATOM	3732	3HG2	THR	A	269	17.482	49.548	6.304	1.00	0.00
ATOM	3733	N	GLY	A	270	20.483	47.602	2.709	1.00	0.00
ATOM	3734	CA	GLY	A	270	21.732	47.183	2.099	1.00	0.00
ATOM	3735	C	GLY	A	270	21.703	45.708	1.777	1.00	0.00
ATOM	3736	O	GLY	A	270	22.739	45.055	1.700	1.00	0.00
ATOM	3737	H	GLY	A	270	19.726	47.912	2.117	1.00	0.00
ATOM	3738	1HA	GLY	A	270	21.887	47.748	1.180	1.00	0.00
ATOM	3739	2HA	GLY	A	270	22.550	47.384	2.789	1.00	0.00
ATOM	3740	N	SER	A	271	20.494	45.189	1.606	1.00	0.00
ATOM	3741	CA	SER	A	271	20.269	43.796	1.277	1.00	0.00
ATOM	3742	C	SER	A	271	20.872	42.820	2.291	1.00	0.00
ATOM	3743	O	SER	A	271	21.695	41.971	1.943	1.00	0.00
ATOM	3744	CB	SER	A	271	20.823	43.516	-0.106	1.00	0.00
ATOM	3745	OG	SER	A	271	20.185	44.279	-1.093	1.00	0.00
ATOM	3746	H	SER	A	271	19.700	45.804	1.713	1.00	0.00
ATOM	3747	HA	SER	A	271	19.215	43.545	1.153	1.00	0.00
ATOM	3748	1HB	SER	A	271	21.887	43.750	-0.109	1.00	0.00
ATOM	3749	2HB	SER	A	271	20.684	42.459	-0.331	1.00	0.00
ATOM	3750	HG	SER	A	271	20.564	44.073	-1.951	1.00	0.00
ATOM	3751	N	MET	A	272	20.463	42.954	3.550	1.00	0.00
ATOM	3752	CA	MET	A	272	20.930	42.074	4.621	1.00	0.00
ATOM	3753	C	MET	A	272	19.765	41.666	5.514	1.00	0.00
ATOM	3754	O	MET	A	272	18.698	42.283	5.481	1.00	0.00
ATOM	3755	CB	MET	A	272	22.017	42.762	5.445	1.00	0.00
ATOM	3756	CG	MET	A	272	23.297	43.058	4.676	1.00	0.00
ATOM	3757	SD	MET	A	272	24.554	43.853	5.697	1.00	0.00
ATOM	3758	CE	MET	A	272	23.754	45.412	6.064	1.00	0.00
ATOM	3759	H	MET	A	272	19.807	43.690	3.769	1.00	0.00
ATOM	3760	HA	MET	A	272	21.345	41.160	4.197	1.00	0.00
ATOM	3761	1HB	MET	A	272	21.592	43.694	5.815	1.00	0.00
ATOM	3762	2HB	MET	A	272	22.242	42.105	6.285	1.00	0.00
ATOM	3763	1HG	MET	A	272	23.690	42.116	4.294	1.00	0.00
ATOM	3764	2HG	MET	A	272	23.048	43.712	3.841	1.00	0.00
ATOM	3765	1HE	MET	A	272	24.409	46.018	6.691	1.00	0.00
ATOM	3766	2HE	MET	A	272	23.547	45.943	5.134	1.00	0.00
ATOM	3767	3HE	MET	A	272	22.818	45.225	6.592	1.00	0.00
ATOM	3768	N	SER	A	273	19.974	40.621	6.309	1.00	0.00
ATOM	3769	CA	SER	A	273	18.948	40.139	7.224	1.00	0.00
ATOM	3770	C	SER	A	273	19.560	39.527	8.473	1.00	0.00
ATOM	3771	O	SER	A	273	20.725	39.137	8.498	1.00	0.00
ATOM	3772	CB	SER	A	273	18.059	39.129	6.525	1.00	0.00
ATOM	3773	OG	SER	A	273	18.756	37.961	6.185	1.00	0.00
ATOM	3774	H	SER	A	273	20.867	40.149	6.278	1.00	0.00
ATOM	3775	HA	SER	A	273	18.225	40.905	7.506	1.00	0.00
ATOM	3776	1HB	SER	A	273	17.236	38.870	7.190	1.00	0.00

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ATOM	3777	2HB	SER	A	273	17.662	39.582	5.617	1.00	0.00
ATOM	3778	HG	SER	A	273	19.353	37.726	6.899	1.00	0.00
ATOM	3779	N	ILE	A	274	18.754	39.463	9.519	1.00	0.00
ATOM	3780	CA	ILE	A	274	19.172	38.876	10.771	1.00	0.00
ATOM	3781	C	ILE	A	274	18.202	37.737	11.021	1.00	0.00
ATOM	3782	O	ILE	A	274	16.986	37.902	10.883	1.00	0.00
ATOM	3783	CB	ILE	A	274	19.239	39.882	11.921	1.00	0.00
ATOM	3784	CG1	ILE	A	274	20.432	40.808	11.694	1.00	0.00
ATOM	3785	CG2	ILE	A	274	19.393	39.182	13.270	1.00	0.00
ATOM	3786	CD1	ILE	A	274	20.626	41.842	12.798	1.00	0.00
ATOM	3787	H	ILE	A	274	17.819	39.836	9.438	1.00	0.00
ATOM	3788	HA	ILE	A	274	20.176	38.461	10.685	1.00	0.00
ATOM	3789	HB	ILE	A	274	18.323	40.472	11.931	1.00	0.00
ATOM	3790	1HG1	ILE	A	274	21.320	40.181	11.622	1.00	0.00
ATOM	3791	2HG1	ILE	A	274	20.270	41.317	10.743	1.00	0.00
ATOM	3792	1HG2	ILE	A	274	19.438	39.927	14.064	1.00	0.00
ATOM	3793	2HG2	ILE	A	274	18.541	38.524	13.438	1.00	0.00
ATOM	3794	3HG2	ILE	A	274	20.311	38.594	13.273	1.00	0.00
ATOM	3795	1HD1	ILE	A	274	21.492	42.464	12.567	1.00	0.00
ATOM	3796	2HD1	ILE	A	274	19.738	42.470	12.869	1.00	0.00
ATOM	3797	3HD1	ILE	A	274	20.788	41.335	13.748	1.00	0.00
ATOM	3798	N	ILE	A	275	18.741	36.574	11.356	1.00	0.00
ATOM	3799	CA	ILE	A	275	17.903	35.424	11.635	1.00	0.00
ATOM	3800	C	ILE	A	275	18.008	35.090	13.117	1.00	0.00
ATOM	3801	O	ILE	A	275	19.096	34.848	13.628	1.00	0.00
ATOM	3802	CB	ILE	A	275	18.302	34.198	10.793	1.00	0.00
ATOM	3803	CG1	ILE	A	275	18.162	34.507	9.300	1.00	0.00
ATOM	3804	CG2	ILE	A	275	17.455	32.994	11.173	1.00	0.00
ATOM	3805	CD1	ILE	A	275	18.732	33.436	8.399	1.00	0.00
ATOM	3806	H	ILE	A	275	19.744	36.479	11.420	1.00	0.00
ATOM	3807	HA	ILE	A	275	16.855	35.658	11.450	1.00	0.00
ATOM	3808	HB	ILE	A	275	19.353	33.973	10.970	1.00	0.00
ATOM	3809	1HG1	ILE	A	275	17.099	34.629	9.093	1.00	0.00
ATOM	3810	2HG1	ILE	A	275	18.677	35.450	9.115	1.00	0.00
ATOM	3811	1HG2	ILE	A	275	17.749	32.136	10.568	1.00	0.00
ATOM	3812	2HG2	ILE	A	275	17.603	32.762	12.227	1.00	0.00
ATOM	3813	3HG2	ILE	A	275	16.403	33.218	10.995	1.00	0.00
ATOM	3814	1HD1	ILE	A	275	18.596	33.726	7.357	1.00	0.00
ATOM	3815	2HD1	ILE	A	275	19.796	33.315	8.605	1.00	0.00
ATOM	3816	3HD1	ILE	A	275	18.218	32.494	8.582	1.00	0.00
ATOM	3817	N	PHE	A	276	16.872	35.107	13.807	1.00	0.00
ATOM	3818	CA	PHE	A	276	16.840	34.798	15.233	1.00	0.00
ATOM	3819	C	PHE	A	276	16.389	33.360	15.410	1.00	0.00
ATOM	3820	O	PHE	A	276	15.495	32.888	14.708	1.00	0.00
ATOM	3821	CB	PHE	A	276	15.910	35.751	15.986	1.00	0.00
ATOM	3822	CG	PHE	A	276	16.400	37.171	16.025	1.00	0.00
ATOM	3823	CD1	PHE	A	276	15.960	38.097	15.091	1.00	0.00
ATOM	3824	CD2	PHE	A	276	17.302	37.583	16.995	1.00	0.00
ATOM	3825	CE1	PHE	A	276	16.411	39.404	15.126	1.00	0.00
ATOM	3826	CE2	PHE	A	276	17.753	38.888	17.033	1.00	0.00
ATOM	3827	CZ	PHE	A	276	17.306	39.799	16.097	1.00	0.00
ATOM	3828	H	PHE	A	276	16.010	35.339	13.334	1.00	0.00
ATOM	3829	HA	PHE	A	276	17.841	34.894	15.655	1.00	0.00
ATOM	3830	1HB	PHE	A	276	14.930	35.773	15.512	1.00	0.00
ATOM	3831	2HB	PHE	A	276	15.804	35.430	17.022	1.00	0.00
ATOM	3832	HD1	PHE	A	276	15.251	37.785	14.325	1.00	0.00
ATOM	3833	HD2	PHE	A	276	17.655	36.862	17.734	1.00	0.00
ATOM	3834	HE1	PHE	A	276	16.057	40.121	14.386	1.00	0.00
ATOM	3835	HE2	PHE	A	276	18.461	39.199	17.800	1.00	0.00
ATOM	3836	HZ	PHE	A	276	17.662	40.828	16.124	1.00	0.00
ATOM	3837	N	PHE	A	277	17.027	32.671	16.345	1.00	0.00
ATOM	3838	CA	PHE	A	277	16.685	31.293	16.675	1.00	0.00
ATOM	3839	C	PHE	A	277	16.296	31.357	18.143	1.00	0.00

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ATOM	3840	O	PHE	A	277	17.141	31.476	19.017	1.00	0.00
ATOM	3841	CB	PHE	A	277	17.846	30.326	16.433	1.00	0.00
ATOM	3842	CG	PHE	A	277	18.282	30.250	14.998	1.00	0.00
ATOM	3843	CD1	PHE	A	277	19.273	31.089	14.513	1.00	0.00
ATOM	3844	CD2	PHE	A	277	17.701	29.339	14.129	1.00	0.00
ATOM	3845	CE1	PHE	A	277	19.675	31.020	13.193	1.00	0.00
ATOM	3846	CE2	PHE	A	277	18.101	29.266	12.809	1.00	0.00
ATOM	3847	CZ	PHE	A	277	19.089	30.108	12.340	1.00	0.00
ATOM	3848	H	PHE	A	277	17.779	33.125	16.845	1.00	0.00
ATOM	3849	HA	PHE	A	277	15.848	30.962	16.059	1.00	0.00
ATOM	3850	1HB	PHE	A	277	18.718	30.636	17.008	1.00	0.00
ATOM	3851	2HB	PHE	A	277	17.559	29.317	16.726	1.00	0.00
ATOM	3852	HD1	PHE	A	277	19.738	31.810	15.188	1.00	0.00
ATOM	3853	HD2	PHE	A	277	16.919	28.674	14.499	1.00	0.00
ATOM	3854	HE1	PHE	A	277	20.455	31.686	12.825	1.00	0.00
ATOM	3855	HE2	PHE	A	277	17.636	28.545	12.136	1.00	0.00
ATOM	3856	HZ	PHE	A	277	19.404	30.053	11.299	1.00	0.00
ATOM	3857	N	LEU	A	278	15.000	31.303	18.397	1.00	0.00
ATOM	3858	CA	LEU	A	278	14.467	31.397	19.748	1.00	0.00
ATOM	3859	C	LEU	A	278	13.938	30.061	20.288	1.00	0.00
ATOM	3860	O	LEU	A	278	12.891	29.577	19.854	1.00	0.00
ATOM	3861	CB	LEU	A	278	13.357	32.455	19.784	1.00	0.00
ATOM	3862	CG	LEU	A	278	12.680	32.644	21.148	1.00	0.00
ATOM	3863	CD1	LEU	A	278	13.695	33.133	22.172	1.00	0.00
ATOM	3864	CD2	LEU	A	278	11.532	33.633	21.012	1.00	0.00
ATOM	3865	H	LEU	A	278	14.361	31.193	17.623	1.00	0.00
ATOM	3866	HA	LEU	A	278	15.262	31.684	20.435	1.00	0.00
ATOM	3867	1HB	LEU	A	278	13.945	33.337	19.533	1.00	0.00
ATOM	3868	2HB	LEU	A	278	12.610	32.284	19.009	1.00	0.00
ATOM	3869	HG	LEU	A	278	12.258	31.681	21.436	1.00	0.00
ATOM	3870	1HD1	LEU	A	278	13.206	33.264	23.137	1.00	0.00
ATOM	3871	2HD1	LEU	A	278	14.496	32.399	22.269	1.00	0.00
ATOM	3872	3HD1	LEU	A	278	14.113	34.085	21.845	1.00	0.00
ATOM	3873	1HD2	LEU	A	278	11.051	33.766	21.982	1.00	0.00
ATOM	3874	2HD2	LEU	A	278	11.916	34.592	20.663	1.00	0.00
ATOM	3875	3HD2	LEU	A	278	10.804	33.251	20.297	1.00	0.00
ATOM	3876	N	PRO	A	279	14.651	29.449	21.249	1.00	0.00
ATOM	3877	CA	PRO	A	279	14.156	28.173	21.774	1.00	0.00
ATOM	3878	C	PRO	A	279	12.790	28.310	22.465	1.00	0.00
ATOM	3879	O	PRO	A	279	12.411	29.398	22.896	1.00	0.00
ATOM	3880	CB	PRO	A	279	15.274	27.776	22.742	1.00	0.00
ATOM	3881	CG	PRO	A	279	15.885	29.104	23.191	1.00	0.00
ATOM	3882	CD	PRO	A	279	15.856	29.927	21.910	1.00	0.00
ATOM	3883	HA	PRO	A	279	13.983	27.427	20.985	1.00	0.00
ATOM	3884	1HB	PRO	A	279	14.882	27.209	23.600	1.00	0.00
ATOM	3885	2HB	PRO	A	279	16.025	27.140	22.251	1.00	0.00
ATOM	3886	1HG	PRO	A	279	15.295	29.560	23.999	1.00	0.00
ATOM	3887	2HG	PRO	A	279	16.905	28.962	23.578	1.00	0.00
ATOM	3888	1HD	PRO	A	279	15.802	31.007	22.111	1.00	0.00
ATOM	3889	2HD	PRO	A	279	16.748	29.760	21.288	1.00	0.00
ATOM	3890	N	LEU	A	280	12.052	27.206	22.551	1.00	0.00
ATOM	3891	CA	LEU	A	280	10.728	27.199	23.178	1.00	0.00
ATOM	3892	C	LEU	A	280	10.779	27.416	24.694	1.00	0.00
ATOM	3893	O	LEU	A	280	10.150	28.339	25.224	1.00	0.00
ATOM	3894	CB	LEU	A	280	10.016	25.877	22.863	1.00	0.00
ATOM	3895	CG	LEU	A	280	9.588	25.698	21.401	1.00	0.00
ATOM	3896	CD1	LEU	A	280	9.051	24.291	21.183	1.00	0.00
ATOM	3897	CD2	LEU	A	280	8.536	26.739	21.048	1.00	0.00
ATOM	3898	H	LEU	A	280	12.421	26.346	22.170	1.00	0.00
ATOM	3899	HA	LEU	A	280	10.136	28.027	22.789	1.00	0.00
ATOM	3900	1HB	LEU	A	280	10.818	25.182	23.106	1.00	0.00
ATOM	3901	2HB	LEU	A	280	9.171	25.705	23.530	1.00	0.00
ATOM	3902	HG	LEU	A	280	10.465	25.888	20.782	1.00	0.00

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ATOM	3903	1HD1	LEU	A	280	8.750	24.173	20.142	1.00	0.00
ATOM	3904	2HD1	LEU	A	280	9.828	23.564	21.420	1.00	0.00
ATOM	3905	3HD1	LEU	A	280	8.190	24.126	21.830	1.00	0.00
ATOM	3906	1HD2	LEU	A	280	8.233	26.611	20.008	1.00	0.00
ATOM	3907	2HD2	LEU	A	280	7.668	26.614	21.696	1.00	0.00
ATOM	3908	3HD2	LEU	A	280	8.950	27.737	21.184	1.00	0.00
ATOM	3909	N	LYS	A	281	11.530	26.567	25.391	1.00	0.00
ATOM	3910	CA	LYS	A	281	11.660	26.674	26.845	1.00	0.00
ATOM	3911	C	LYS	A	281	12.884	27.523	27.187	1.00	0.00
ATOM	3912	O	LYS	A	281	13.854	27.544	26.425	1.00	0.00
ATOM	3913	CB	LYS	A	281	11.770	25.291	27.489	1.00	0.00
ATOM	3914	CG	LYS	A	281	10.518	24.434	27.355	1.00	0.00
ATOM	3915	CD	LYS	A	281	10.723	23.057	27.969	1.00	0.00
ATOM	3916	CE	LYS	A	281	9.462	22.211	27.867	1.00	0.00
ATOM	3917	NZ	LYS	A	281	9.642	20.867	28.478	1.00	0.00
ATOM	3918	H	LYS	A	281	12.023	25.831	24.906	1.00	0.00
ATOM	3919	HA	LYS	A	281	10.784	27.176	27.258	1.00	0.00
ATOM	3920	1HB	LYS	A	281	12.610	24.783	27.013	1.00	0.00
ATOM	3921	2HB	LYS	A	281	11.992	25.446	28.545	1.00	0.00
ATOM	3922	1HG	LYS	A	281	9.696	24.940	27.863	1.00	0.00
ATOM	3923	2HG	LYS	A	281	10.282	24.329	26.297	1.00	0.00
ATOM	3924	1HD	LYS	A	281	11.538	22.559	27.442	1.00	0.00
ATOM	3925	2HD	LYS	A	281	10.992	23.180	29.018	1.00	0.00
ATOM	3926	1HE	LYS	A	281	8.656	22.737	28.378	1.00	0.00
ATOM	3927	2HE	LYS	A	281	9.210	22.100	26.812	1.00	0.00
ATOM	3928	1HZ	LYS	A	281	8.785	20.339	28.389	1.00	0.00
ATOM	3929	2HZ	LYS	A	281	10.389	20.378	28.004	1.00	0.00
ATOM	3930	3HZ	LYS	A	281	9.874	20.970	29.456	1.00	0.00
ATOM	3931	N	VAL	A	282	12.841	28.228	28.315	1.00	0.00
ATOM	3932	CA	VAL	A	282	13.985	29.039	28.722	1.00	0.00
ATOM	3933	C	VAL	A	282	15.132	28.087	29.043	1.00	0.00
ATOM	3934	O	VAL	A	282	14.957	27.101	29.766	1.00	0.00
ATOM	3935	CB	VAL	A	282	13.677	29.924	29.944	1.00	0.00
ATOM	3936	CG1	VAL	A	282	14.932	30.651	30.405	1.00	0.00
ATOM	3937	CG2	VAL	A	282	12.576	30.921	29.617	1.00	0.00
ATOM	3938	H	VAL	A	282	12.018	28.209	28.900	1.00	0.00
ATOM	3939	HA	VAL	A	282	14.320	29.687	27.911	1.00	0.00
ATOM	3940	HB	VAL	A	282	13.304	29.295	30.752	1.00	0.00
ATOM	3941	1HG1	VAL	A	282	14.696	31.272	31.270	1.00	0.00
ATOM	3942	2HG1	VAL	A	282	15.694	29.923	30.679	1.00	0.00
ATOM	3943	3HG1	VAL	A	282	15.304	31.282	29.598	1.00	0.00
ATOM	3944	1HG2	VAL	A	282	12.370	31.537	30.491	1.00	0.00
ATOM	3945	2HG2	VAL	A	282	12.895	31.556	28.791	1.00	0.00
ATOM	3946	3HG2	VAL	A	282	11.671	30.383	29.332	1.00	0.00
ATOM	3947	N	THR	A	283	16.302	28.384	28.492	1.00	0.00
ATOM	3948	CA	THR	A	283	17.474	27.541	28.692	1.00	0.00
ATOM	3949	C	THR	A	283	18.745	28.187	28.135	1.00	0.00
ATOM	3950	O	THR	A	283	18.686	29.110	27.315	1.00	0.00
ATOM	3951	CB	THR	A	283	17.285	26.160	28.037	1.00	0.00
ATOM	3952	OG1	THR	A	283	18.398	25.317	28.363	1.00	0.00
ATOM	3953	CG2	THR	A	283	17.183	26.296	26.526	1.00	0.00
ATOM	3954	H	THR	A	283	16.384	29.213	27.921	1.00	0.00
ATOM	3955	HA	THR	A	283	17.652	27.404	29.759	1.00	0.00
ATOM	3956	HB	THR	A	283	16.372	25.707	28.423	1.00	0.00
ATOM	3957	HG1	THR	A	283	18.278	24.457	27.954	1.00	0.00
ATOM	3958	1HG2	THR	A	283	17.049	25.310	26.081	1.00	0.00
ATOM	3959	2HG2	THR	A	283	16.330	26.927	26.274	1.00	0.00
ATOM	3960	3HG2	THR	A	283	18.095	26.748	26.139	1.00	0.00
ATOM	3961	N	GLN	A	284	19.892	27.697	28.600	1.00	0.00
ATOM	3962	CA	GLN	A	284	21.186	28.183	28.137	1.00	0.00
ATOM	3963	C	GLN	A	284	21.764	27.103	27.232	1.00	0.00
ATOM	3964	O	GLN	A	284	22.838	27.264	26.642	1.00	0.00
ATOM	3965	CB	GLN	A	284	22.131	28.478	29.305	1.00	0.00

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ATOM	3966	CG	GLN	A	284	21.660	29.594	30.221	1.00	0.00
ATOM	3967	CD	GLN	A	284	22.621	29.848	31.366	1.00	0.00
ATOM	3968	OE1	GLN	A	284	23.730	29.306	31.396	1.00	0.00
ATOM	3969	NE2	GLN	A	284	22.200	30.671	32.320	1.00	0.00
ATOM	3970	H	GLN	A	284	19.861	26.965	29.296	1.00	0.00
ATOM	3971	HA	GLN	A	284	21.048	29.098	27.562	1.00	0.00
ATOM	3972	1HB	GLN	A	284	22.230	27.552	29.872	1.00	0.00
ATOM	3973	2HB	GLN	A	284	23.096	28.741	28.870	1.00	0.00
ATOM	3974	1HG	GLN	A	284	21.323	30.561	29.847	1.00	0.00
ATOM	3975	2HG	GLN	A	284	20.805	29.037	30.604	1.00	0.00
ATOM	3976	1HE2	GLN	A	284	22.791	30.876	33.101	1.00	0.00
ATOM	3977	2HE2	GLN	A	284	21.293	31.087	32.257	1.00	0.00
ATOM	3978	N	ASN	A	285	21.032	25.995	27.145	1.00	0.00
ATOM	3979	CA	ASN	A	285	21.407	24.864	26.307	1.00	0.00
ATOM	3980	C	ASN	A	285	20.751	25.001	24.933	1.00	0.00
ATOM	3981	O	ASN	A	285	19.562	24.725	24.757	1.00	0.00
ATOM	3982	CB	ASN	A	285	21.037	23.540	26.949	1.00	0.00
ATOM	3983	CG	ASN	A	285	21.502	22.339	26.172	1.00	0.00
ATOM	3984	OD1	ASN	A	285	21.787	22.424	24.972	1.00	0.00
ATOM	3985	ND2	ASN	A	285	21.501	21.207	26.829	1.00	0.00
ATOM	3986	H	ASN	A	285	20.181	25.945	27.687	1.00	0.00
ATOM	3987	HA	ASN	A	285	22.487	24.860	26.153	1.00	0.00
ATOM	3988	1HB	ASN	A	285	21.210	23.367	28.012	1.00	0.00
ATOM	3989	2HB	ASN	A	285	19.970	23.680	26.773	1.00	0.00
ATOM	3990	1HD2	ASN	A	285	21.799	20.367	26.375	1.00	0.00
ATOM	3991	2HD2	ASN	A	285	21.203	21.182	27.783	1.00	0.00
ATOM	3992	N	LEU	A	286	21.550	25.432	23.965	1.00	0.00
ATOM	3993	CA	LEU	A	286	21.084	25.651	22.603	1.00	0.00
ATOM	3994	C	LEU	A	286	21.796	24.724	21.612	1.00	0.00
ATOM	3995	O	LEU	A	286	21.752	24.939	20.400	1.00	0.00
ATOM	3996	CB	LEU	A	286	21.290	27.119	22.208	1.00	0.00
ATOM	3997	CG	LEU	A	286	20.644	28.145	23.148	1.00	0.00
ATOM	3998	CD1	LEU	A	286	20.893	29.555	22.630	1.00	0.00
ATOM	3999	CD2	LEU	A	286	19.153	27.865	23.258	1.00	0.00
ATOM	4000	H	LEU	A	286	22.518	25.613	24.189	1.00	0.00
ATOM	4001	HA	LEU	A	286	20.023	25.411	22.537	1.00	0.00
ATOM	4002	1HB	LEU	A	286	22.375	27.172	22.285	1.00	0.00
ATOM	4003	2HB	LEU	A	286	20.990	27.305	21.177	1.00	0.00
ATOM	4004	HG	LEU	A	286	21.085	28.002	24.135	1.00	0.00
ATOM	4005	1HD1	LEU	A	286	20.430	30.277	23.304	1.00	0.00
ATOM	4006	2HD1	LEU	A	286	21.966	29.741	22.582	1.00	0.00
ATOM	4007	3HD1	LEU	A	286	20.460	29.659	21.636	1.00	0.00
ATOM	4008	1HD2	LEU	A	286	18.695	28.595	23.927	1.00	0.00
ATOM	4009	2HD2	LEU	A	286	18.695	27.939	22.272	1.00	0.00
ATOM	4010	3HD2	LEU	A	286	18.999	26.862	23.656	1.00	0.00
ATOM	4011	N	THR	A	287	22.429	23.685	22.147	1.00	0.00
ATOM	4012	CA	THR	A	287	23.187	22.711	21.367	1.00	0.00
ATOM	4013	C	THR	A	287	22.565	22.159	20.083	1.00	0.00
ATOM	4014	O	THR	A	287	23.139	22.320	19.005	1.00	0.00
ATOM	4015	CB	THR	A	287	23.538	21.506	22.259	1.00	0.00
ATOM	4016	OG1	THR	A	287	24.322	21.947	23.375	1.00	0.00
ATOM	4017	CG2	THR	A	287	24.323	20.469	21.471	1.00	0.00
ATOM	4018	H	THR	A	287	22.374	23.576	23.150	1.00	0.00
ATOM	4019	HA	THR	A	287	24.101	23.171	20.991	1.00	0.00
ATOM	4020	HB	THR	A	287	22.616	21.058	22.629	1.00	0.00
ATOM	4021	HG1	THR	A	287	23.820	22.586	23.886	1.00	0.00
ATOM	4022	1HG2	THR	A	287	24.562	19.625	22.118	1.00	0.00
ATOM	4023	2HG2	THR	A	287	23.725	20.124	20.628	1.00	0.00
ATOM	4024	3HG2	THR	A	287	25.246	20.916	21.102	1.00	0.00
ATOM	4025	N	LEU	A	288	21.421	21.487	20.189	1.00	0.00
ATOM	4026	CA	LEU	A	288	20.771	20.925	19.004	1.00	0.00
ATOM	4027	C	LEU	A	288	20.744	21.956	17.890	1.00	0.00
ATOM	4028	O	LEU	A	288	20.998	21.626	16.728	1.00	0.00

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ATOM	4029	CB	LEU	A	288	19.349	20.455	19.336	1.00	0.00
ATOM	4030	CG	LEU	A	288	19.265	19.189	20.198	1.00	0.00
ATOM	4031	CD1	LEU	A	288	17.818	18.918	20.588	1.00	0.00
ATOM	4032	CD2	LEU	A	288	19.845	18.011	19.429	1.00	0.00
ATOM	4033	H	LEU	A	288	20.990	21.359	21.094	1.00	0.00
ATOM	4034	HA	LEU	A	288	21.345	20.072	18.643	1.00	0.00
ATOM	4035	1HB	LEU	A	288	19.006	21.318	19.905	1.00	0.00
ATOM	4036	2HB	LEU	A	288	18.740	20.346	18.439	1.00	0.00
ATOM	4037	HG	LEU	A	288	19.888	19.353	21.077	1.00	0.00
ATOM	4038	1HD1	LEU	A	288	17.768	18.017	21.200	1.00	0.00
ATOM	4039	2HD1	LEU	A	288	17.430	19.764	21.156	1.00	0.00
ATOM	4040	3HD1	LEU	A	288	17.219	18.779	19.689	1.00	0.00
ATOM	4041	1HD2	LEU	A	288	19.785	17.112	20.043	1.00	0.00
ATOM	4042	2HD2	LEU	A	288	19.279	17.862	18.509	1.00	0.00
ATOM	4043	3HD2	LEU	A	288	20.888	18.214	19.185	1.00	0.00
ATOM	4044	N	ILE	A	289	20.435	23.202	18.261	1.00	0.00
ATOM	4045	CA	ILE	A	289	20.356	24.322	17.320	1.00	0.00
ATOM	4046	C	ILE	A	289	21.714	24.685	16.718	1.00	0.00
ATOM	4047	O	ILE	A	289	21.864	24.769	15.497	1.00	0.00
ATOM	4048	CB	ILE	A	289	19.765	25.573	17.995	1.00	0.00
ATOM	4049	CG1	ILE	A	289	18.296	25.341	18.357	1.00	0.00
ATOM	4050	CG2	ILE	A	289	19.908	26.785	17.088	1.00	0.00
ATOM	4051	CD1	ILE	A	289	17.714	26.405	19.259	1.00	0.00
ATOM	4052	H	ILE	A	289	20.249	23.368	19.240	1.00	0.00
ATOM	4053	HA	ILE	A	289	19.753	24.054	16.454	1.00	0.00
ATOM	4054	HB	ILE	A	289	20.294	25.755	18.931	1.00	0.00
ATOM	4055	1HG1	ILE	A	289	17.734	25.308	17.424	1.00	0.00
ATOM	4056	2HG1	ILE	A	289	18.234	24.372	18.852	1.00	0.00
ATOM	4057	1HG2	ILE	A	289	19.485	27.660	17.580	1.00	0.00
ATOM	4058	2HG2	ILE	A	289	20.963	26.961	16.879	1.00	0.00
ATOM	4059	3HG2	ILE	A	289	19.379	26.604	16.152	1.00	0.00
ATOM	4060	1HD1	ILE	A	289	16.670	26.172	19.472	1.00	0.00
ATOM	4061	2HD1	ILE	A	289	18.275	26.439	20.193	1.00	0.00
ATOM	4062	3HD1	ILE	A	289	17.774	27.374	18.766	1.00	0.00
ATOM	4063	N	GLU	A	290	22.697	24.905	17.583	1.00	0.00
ATOM	4064	CA	GLU	A	290	24.038	25.243	17.141	1.00	0.00
ATOM	4065	C	GLU	A	290	24.565	24.182	16.169	1.00	0.00
ATOM	4066	O	GLU	A	290	25.170	24.503	15.138	1.00	0.00
ATOM	4067	CB	GLU	A	290	24.977	25.385	18.341	1.00	0.00
ATOM	4068	CG	GLU	A	290	24.624	26.525	19.285	1.00	0.00
ATOM	4069	CD	GLU	A	290	25.525	26.538	20.488	1.00	0.00
ATOM	4070	OE1	GLU	A	290	26.496	25.819	20.487	1.00	0.00
ATOM	4071	OE2	GLU	A	290	25.308	27.347	21.359	1.00	0.00
ATOM	4072	H	GLU	A	290	22.508	24.836	18.573	1.00	0.00
ATOM	4073	HA	GLU	A	290	24.021	26.189	16.598	1.00	0.00
ATOM	4074	1HB	GLU	A	290	24.944	24.440	18.884	1.00	0.00
ATOM	4075	2HB	GLU	A	290	25.981	25.541	17.944	1.00	0.00
ATOM	4076	1HG	GLU	A	290	24.642	27.505	18.808	1.00	0.00
ATOM	4077	2HG	GLU	A	290	23.606	26.293	19.597	1.00	0.00
ATOM	4078	N	GLU	A	291	24.321	22.919	16.508	1.00	0.00
ATOM	4079	CA	GLU	A	291	24.759	21.788	15.697	1.00	0.00
ATOM	4080	C	GLU	A	291	24.170	21.778	14.291	1.00	0.00
ATOM	4081	O	GLU	A	291	24.661	21.073	13.413	1.00	0.00
ATOM	4082	CB	GLU	A	291	24.410	20.477	16.405	1.00	0.00
ATOM	4083	CG	GLU	A	291	25.173	20.240	17.701	1.00	0.00
ATOM	4084	CD	GLU	A	291	26.656	20.185	17.459	1.00	0.00
ATOM	4085	OE1	GLU	A	291	27.077	19.404	16.641	1.00	0.00
ATOM	4086	OE2	GLU	A	291	27.358	21.001	18.010	1.00	0.00
ATOM	4087	H	GLU	A	291	23.812	22.744	17.362	1.00	0.00
ATOM	4088	HA	GLU	A	291	25.838	21.835	15.549	1.00	0.00
ATOM	4089	1HB	GLU	A	291	23.340	20.503	16.614	1.00	0.00
ATOM	4090	2HB	GLU	A	291	24.624	19.669	15.705	1.00	0.00
ATOM	4091	1HG	GLU	A	291	24.959	20.980	18.472	1.00	0.00

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ATOM	4092	2HG	GLU	A	291	24.822	19.263	18.030	1.00	0.00
ATOM	4093	N	SER	A	292	23.123	22.567	14.077	1.00	0.00
ATOM	4094	CA	SER	A	292	22.469	22.624	12.779	1.00	0.00
ATOM	4095	C	SER	A	292	23.012	23.718	11.875	1.00	0.00
ATOM	4096	O	SER	A	292	22.984	23.592	10.648	1.00	0.00
ATOM	4097	CB	SER	A	292	20.977	22.811	12.973	1.00	0.00
ATOM	4098	OG	SER	A	292	20.400	21.747	13.679	1.00	0.00
ATOM	4099	H	SER	A	292	22.772	23.141	14.830	1.00	0.00
ATOM	4100	HA	SER	A	292	22.506	21.680	12.233	1.00	0.00
ATOM	4101	1HB	SER	A	292	20.810	23.735	13.525	1.00	0.00
ATOM	4102	2HB	SER	A	292	20.504	22.884	11.994	1.00	0.00
ATOM	4103	HG	SER	A	292	20.809	21.680	14.545	1.00	0.00
ATOM	4104	N	LEU	A	293	23.504	24.791	12.485	1.00	0.00
ATOM	4105	CA	LEU	A	293	24.016	25.928	11.734	1.00	0.00
ATOM	4106	C	LEU	A	293	25.066	25.579	10.692	1.00	0.00
ATOM	4107	O	LEU	A	293	26.195	25.216	11.024	1.00	0.00
ATOM	4108	CB	LEU	A	293	24.540	26.989	12.702	1.00	0.00
ATOM	4109	CG	LEU	A	293	23.482	27.464	13.702	1.00	0.00
ATOM	4110	CD1	LEU	A	293	24.069	28.430	14.733	1.00	0.00
ATOM	4111	CD2	LEU	A	293	22.254	28.049	13.003	1.00	0.00
ATOM	4112	H	LEU	A	293	23.524	24.819	13.494	1.00	0.00
ATOM	4113	HA	LEU	A	293	23.208	26.381	11.161	1.00	0.00
ATOM	4114	1HB	LEU	A	293	25.312	26.406	13.202	1.00	0.00
ATOM	4115	2HB	LEU	A	293	25.000	27.824	12.175	1.00	0.00
ATOM	4116	HG	LEU	A	293	23.141	26.587	14.253	1.00	0.00
ATOM	4117	1HD1	LEU	A	293	23.287	28.744	15.425	1.00	0.00
ATOM	4118	2HD1	LEU	A	293	24.864	27.931	15.288	1.00	0.00
ATOM	4119	3HD1	LEU	A	293	24.474	29.303	14.223	1.00	0.00
ATOM	4120	1HD2	LEU	A	293	21.530	28.372	13.751	1.00	0.00
ATOM	4121	2HD2	LEU	A	293	22.553	28.902	12.394	1.00	0.00
ATOM	4122	3HD2	LEU	A	293	21.802	27.290	12.365	1.00	0.00
ATOM	4123	N	THR	A	294	24.672	25.668	9.427	1.00	0.00
ATOM	4124	CA	THR	A	294	25.581	25.443	8.316	1.00	0.00
ATOM	4125	C	THR	A	294	25.053	26.374	7.247	1.00	0.00
ATOM	4126	O	THR	A	294	23.972	26.941	7.404	1.00	0.00
ATOM	4127	CB	THR	A	294	25.606	23.986	7.818	1.00	0.00
ATOM	4128	OG1	THR	A	294	24.324	23.642	7.276	1.00	0.00
ATOM	4129	CG2	THR	A	294	25.941	23.038	8.959	1.00	0.00
ATOM	4130	H	THR	A	294	23.708	25.900	9.235	1.00	0.00
ATOM	4131	HA	THR	A	294	26.597	25.705	8.612	1.00	0.00
ATOM	4132	HB	THR	A	294	26.358	23.892	7.035	1.00	0.00
ATOM	4133	HG1	THR	A	294	24.342	22.733	6.966	1.00	0.00
ATOM	4134	1HG2	THR	A	294	25.955	22.013	8.587	1.00	0.00
ATOM	4135	2HG2	THR	A	294	26.921	23.290	9.365	1.00	0.00
ATOM	4136	3HG2	THR	A	294	25.189	23.131	9.741	1.00	0.00
ATOM	4137	N	SER	A	295	25.809	26.543	6.170	1.00	0.00
ATOM	4138	CA	SER	A	295	25.406	27.442	5.102	1.00	0.00
ATOM	4139	C	SER	A	295	24.203	26.906	4.367	1.00	0.00
ATOM	4140	O	SER	A	295	23.240	27.639	4.105	1.00	0.00
ATOM	4141	CB	SER	A	295	26.555	27.663	4.138	1.00	0.00
ATOM	4142	OG	SER	A	295	27.620	28.350	4.736	1.00	0.00
ATOM	4143	H	SER	A	295	26.681	26.040	6.087	1.00	0.00
ATOM	4144	HA	SER	A	295	25.213	28.460	5.443	1.00	0.00
ATOM	4145	1HB	SER	A	295	26.910	26.693	3.791	1.00	0.00
ATOM	4146	2HB	SER	A	295	26.193	28.241	3.289	1.00	0.00
ATOM	4147	HG	SER	A	295	27.948	27.843	5.483	1.00	0.00
ATOM	4148	N	GLU	A	296	24.252	25.617	4.047	1.00	0.00
ATOM	4149	CA	GLU	A	296	23.159	24.993	3.322	1.00	0.00
ATOM	4150	C	GLU	A	296	21.894	24.949	4.166	1.00	0.00
ATOM	4151	O	GLU	A	296	20.798	25.207	3.670	1.00	0.00
ATOM	4152	CB	GLU	A	296	23.548	23.580	2.881	1.00	0.00
ATOM	4153	CG	GLU	A	296	24.599	23.532	1.781	1.00	0.00
ATOM	4154	CD	GLU	A	296	25.021	22.119	1.490	1.00	0.00

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ATOM	4155	OE1	GLU	A	296	24.564	21.231	2.168	1.00	0.00
ATOM	4156	OE2	GLU	A	296	25.710	21.914	0.518	1.00	0.00
ATOM	4157	H	GLU	A	296	25.053	25.059	4.306	1.00	0.00
ATOM	4158	HA	GLU	A	296	22.919	25.582	2.436	1.00	0.00
ATOM	4159	1HB	GLU	A	296	23.923	23.063	3.764	1.00	0.00
ATOM	4160	2HB	GLU	A	296	22.637	23.092	2.533	1.00	0.00
ATOM	4161	1HG	GLU	A	296	24.282	24.014	0.856	1.00	0.00
ATOM	4162	2HG	GLU	A	296	25.439	24.081	2.205	1.00	0.00
ATOM	4163	N	PHE	A	297	22.034	24.633	5.445	1.00	0.00
ATOM	4164	CA	PHE	A	297	20.867	24.589	6.304	1.00	0.00
ATOM	4165	C	PHE	A	297	20.202	25.955	6.330	1.00	0.00
ATOM	4166	O	PHE	A	297	18.979	26.048	6.235	1.00	0.00
ATOM	4167	CB	PHE	A	297	21.293	24.164	7.707	1.00	0.00
ATOM	4168	CG	PHE	A	297	20.207	24.351	8.739	1.00	0.00
ATOM	4169	CD1	PHE	A	297	20.333	25.357	9.691	1.00	0.00
ATOM	4170	CD2	PHE	A	297	19.101	23.510	8.759	1.00	0.00
ATOM	4171	CE1	PHE	A	297	19.369	25.506	10.680	1.00	0.00
ATOM	4172	CE2	PHE	A	297	18.137	23.657	9.750	1.00	0.00
ATOM	4173	CZ	PHE	A	297	18.278	24.646	10.718	1.00	0.00
ATOM	4174	H	PHE	A	297	22.941	24.421	5.836	1.00	0.00
ATOM	4175	HA	PHE	A	297	20.141	23.878	5.906	1.00	0.00
ATOM	4176	1HB	PHE	A	297	21.560	23.108	7.714	1.00	0.00
ATOM	4177	2HB	PHE	A	297	22.147	24.756	8.034	1.00	0.00
ATOM	4178	HD1	PHE	A	297	21.194	26.024	9.650	1.00	0.00
ATOM	4179	HD2	PHE	A	297	18.989	22.734	8.001	1.00	0.00
ATOM	4180	HE1	PHE	A	297	19.470	26.296	11.423	1.00	0.00
ATOM	4181	HE2	PHE	A	297	17.270	22.996	9.769	1.00	0.00
ATOM	4182	HZ	PHE	A	297	17.533	24.744	11.506	1.00	0.00
ATOM	4183	N	ILE	A	298	21.001	27.015	6.442	1.00	0.00
ATOM	4184	CA	ILE	A	298	20.450	28.365	6.484	1.00	0.00
ATOM	4185	C	ILE	A	298	19.729	28.750	5.185	1.00	0.00
ATOM	4186	O	ILE	A	298	18.781	29.530	5.218	1.00	0.00
ATOM	4187	CB	ILE	A	298	21.528	29.373	6.898	1.00	0.00
ATOM	4188	CG1	ILE	A	298	21.962	29.087	8.336	1.00	0.00
ATOM	4189	CG2	ILE	A	298	21.046	30.816	6.790	1.00	0.00
ATOM	4190	CD1	ILE	A	298	20.808	29.240	9.326	1.00	0.00
ATOM	4191	H	ILE	A	298	22.002	26.890	6.499	1.00	0.00
ATOM	4192	HA	ILE	A	298	19.672	28.439	7.242	1.00	0.00
ATOM	4193	HB	ILE	A	298	22.397	29.249	6.252	1.00	0.00
ATOM	4194	1HG1	ILE	A	298	22.350	28.069	8.361	1.00	0.00
ATOM	4195	2HG1	ILE	A	298	22.763	29.786	8.578	1.00	0.00
ATOM	4196	1HG2	ILE	A	298	21.846	31.491	7.095	1.00	0.00
ATOM	4197	2HG2	ILE	A	298	20.765	31.029	5.760	1.00	0.00
ATOM	4198	3HG2	ILE	A	298	20.182	30.961	7.439	1.00	0.00
ATOM	4199	1HD1	ILE	A	298	21.162	29.028	10.335	1.00	0.00
ATOM	4200	2HD1	ILE	A	298	20.424	30.260	9.284	1.00	0.00
ATOM	4201	3HD1	ILE	A	298	20.012	28.543	9.069	1.00	0.00
ATOM	4202	N	HIS	A	299	20.167	28.208	4.049	1.00	0.00
ATOM	4203	CA	HIS	A	299	19.528	28.509	2.759	1.00	0.00
ATOM	4204	C	HIS	A	299	18.109	27.923	2.689	1.00	0.00
ATOM	4205	O	HIS	A	299	17.211	28.525	2.096	1.00	0.00
ATOM	4206	CB	HIS	A	299	20.373	27.973	1.599	1.00	0.00
ATOM	4207	CG	HIS	A	299	19.694	28.063	0.268	1.00	0.00
ATOM	4208	ND1	HIS	A	299	19.430	29.266	-0.352	1.00	0.00
ATOM	4209	CD2	HIS	A	299	19.224	27.101	-0.560	1.00	0.00
ATOM	4210	CE1	HIS	A	299	18.827	29.039	-1.507	1.00	0.00
ATOM	4211	NE2	HIS	A	299	18.690	27.734	-1.656	1.00	0.00
ATOM	4212	H	HIS	A	299	20.955	27.576	4.072	1.00	0.00
ATOM	4213	HA	HIS	A	299	19.423	29.588	2.645	1.00	0.00
ATOM	4214	1HB	HIS	A	299	21.300	28.541	1.514	1.00	0.00
ATOM	4215	2HB	HIS	A	299	20.606	26.921	1.760	1.00	0.00
ATOM	4216	HD1	HIS	A	299	19.718	30.170	-0.036	1.00	0.00
ATOM	4217	HD2	HIS	A	299	19.206	26.013	-0.497	1.00	0.00

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ATOM	4218	HE1	HIS	A	299	18.534	29.867	-2.152	1.00	0.00
ATOM	4219	N	ASP	A	300	17.901	26.757	3.295	1.00	0.00
ATOM	4220	CA	ASP	A	300	16.584	26.135	3.287	1.00	0.00
ATOM	4221	C	ASP	A	300	15.660	26.898	4.219	1.00	0.00
ATOM	4222	O	ASP	A	300	14.524	27.210	3.873	1.00	0.00
ATOM	4223	CB	ASP	A	300	16.667	24.664	3.702	1.00	0.00
ATOM	4224	CG	ASP	A	300	17.293	23.750	2.656	1.00	0.00
ATOM	4225	OD1	ASP	A	300	17.440	24.176	1.535	1.00	0.00
ATOM	4226	OD2	ASP	A	300	17.761	22.698	3.020	1.00	0.00
ATOM	4227	H	ASP	A	300	18.662	26.292	3.769	1.00	0.00
ATOM	4228	HA	ASP	A	300	16.158	26.185	2.284	1.00	0.00
ATOM	4229	1HB	ASP	A	300	17.162	24.510	4.661	1.00	0.00
ATOM	4230	2HB	ASP	A	300	15.606	24.432	3.798	1.00	0.00
ATOM	4231	N	ILE	A	301	16.153	27.201	5.411	1.00	0.00
ATOM	4232	CA	ILE	A	301	15.363	27.944	6.374	1.00	0.00
ATOM	4233	C	ILE	A	301	14.969	29.277	5.752	1.00	0.00
ATOM	4234	O	ILE	A	301	13.851	29.740	5.934	1.00	0.00
ATOM	4235	CB	ILE	A	301	16.188	28.159	7.644	1.00	0.00
ATOM	4236	CG1	ILE	A	301	16.454	26.819	8.325	1.00	0.00
ATOM	4237	CG2	ILE	A	301	15.535	29.161	8.594	1.00	0.00
ATOM	4238	CD1	ILE	A	301	15.162	26.120	8.753	1.00	0.00
ATOM	4239	H	ILE	A	301	17.089	26.915	5.659	1.00	0.00
ATOM	4240	HA	ILE	A	301	14.433	27.421	6.593	1.00	0.00
ATOM	4241	HB	ILE	A	301	17.174	28.533	7.368	1.00	0.00
ATOM	4242	1HG1	ILE	A	301	17.002	26.198	7.617	1.00	0.00
ATOM	4243	2HG1	ILE	A	301	17.081	27.017	9.195	1.00	0.00
ATOM	4244	1HG2	ILE	A	301	16.157	29.280	9.481	1.00	0.00
ATOM	4245	2HG2	ILE	A	301	15.430	30.122	8.093	1.00	0.00
ATOM	4246	3HG2	ILE	A	301	14.551	28.796	8.888	1.00	0.00
ATOM	4247	1HD1	ILE	A	301	15.403	25.171	9.233	1.00	0.00
ATOM	4248	2HD1	ILE	A	301	14.620	26.754	9.455	1.00	0.00
ATOM	4249	3HD1	ILE	A	301	14.541	25.935	7.878	1.00	0.00
ATOM	4250	N	ASP	A	302	15.879	29.879	4.996	1.00	0.00
ATOM	4251	CA	ASP	A	302	15.592	31.159	4.373	1.00	0.00
ATOM	4252	C	ASP	A	302	14.391	31.056	3.440	1.00	0.00
ATOM	4253	O	ASP	A	302	13.540	31.944	3.407	1.00	0.00
ATOM	4254	CB	ASP	A	302	16.816	31.668	3.607	1.00	0.00
ATOM	4255	CG	ASP	A	302	16.653	33.061	3.016	1.00	0.00
ATOM	4256	OD1	ASP	A	302	16.467	33.987	3.770	1.00	0.00
ATOM	4257	OD2	ASP	A	302	16.871	33.214	1.837	1.00	0.00
ATOM	4258	H	ASP	A	302	16.782	29.451	4.847	1.00	0.00
ATOM	4259	HA	ASP	A	302	15.330	31.891	5.137	1.00	0.00
ATOM	4260	1HB	ASP	A	302	17.739	31.624	4.185	1.00	0.00
ATOM	4261	2HB	ASP	A	302	16.855	30.934	2.801	1.00	0.00
ATOM	4262	N	ARG	A	303	14.311	29.965	2.690	1.00	0.00
ATOM	4263	CA	ARG	A	303	13.214	29.798	1.750	1.00	0.00
ATOM	4264	C	ARG	A	303	11.938	29.206	2.324	1.00	0.00
ATOM	4265	O	ARG	A	303	10.855	29.521	1.845	1.00	0.00
ATOM	4266	CB	ARG	A	303	13.663	29.001	0.534	1.00	0.00
ATOM	4267	CG	ARG	A	303	14.746	29.665	-0.301	1.00	0.00
ATOM	4268	CD	ARG	A	303	15.168	28.882	-1.491	1.00	0.00
ATOM	4269	NE	ARG	A	303	14.126	28.693	-2.488	1.00	0.00
ATOM	4270	CZ	ARG	A	303	14.236	27.894	-3.567	1.00	0.00
ATOM	4271	NH1	ARG	A	303	15.349	27.239	-3.815	1.00	0.00
ATOM	4272	NH2	ARG	A	303	13.202	27.804	-4.385	1.00	0.00
ATOM	4273	H	ARG	A	303	15.010	29.240	2.764	1.00	0.00
ATOM	4274	HA	ARG	A	303	12.899	30.772	1.373	1.00	0.00
ATOM	4275	1HB	ARG	A	303	14.028	28.042	0.899	1.00	0.00
ATOM	4276	2HB	ARG	A	303	12.780	28.842	-0.085	1.00	0.00
ATOM	4277	1HG	ARG	A	303	14.375	30.630	-0.648	1.00	0.00
ATOM	4278	2HG	ARG	A	303	15.623	29.819	0.328	1.00	0.00
ATOM	4279	1HD	ARG	A	303	15.995	29.397	-1.979	1.00	0.00
ATOM	4280	2HD	ARG	A	303	15.494	27.895	-1.168	1.00	0.00

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ATOM	4281	HE	ARG	A	303	13.201	29.100	-2.539	1.00	0.00
ATOM	4282	1HH1	ARG	A	303	16.136	27.333	-3.189	1.00	0.00
ATOM	4283	2HH1	ARG	A	303	15.411	26.646	-4.629	1.00	0.00
ATOM	4284	1HH2	ARG	A	303	12.360	28.328	-4.190	1.00	0.00
ATOM	4285	2HH2	ARG	A	303	13.258	27.213	-5.202	1.00	0.00
ATOM	4286	N	GLU	A	304	12.058	28.353	3.338	1.00	0.00
ATOM	4287	CA	GLU	A	304	10.890	27.722	3.946	1.00	0.00
ATOM	4288	C	GLU	A	304	10.100	28.706	4.839	1.00	0.00
ATOM	4289	O	GLU	A	304	8.953	28.430	5.217	1.00	0.00
ATOM	4290	CB	GLU	A	304	11.321	26.499	4.759	1.00	0.00
ATOM	4291	CG	GLU	A	304	11.858	25.346	3.924	1.00	0.00
ATOM	4292	CD	GLU	A	304	12.333	24.216	4.794	1.00	0.00
ATOM	4293	OE1	GLU	A	304	12.258	24.343	5.993	1.00	0.00
ATOM	4294	OE2	GLU	A	304	12.665	23.183	4.263	1.00	0.00
ATOM	4295	H	GLU	A	304	12.977	28.136	3.697	1.00	0.00
ATOM	4296	HA	GLU	A	304	10.196	27.402	3.168	1.00	0.00
ATOM	4297	1HB	GLU	A	304	12.092	26.834	5.453	1.00	0.00
ATOM	4298	2HB	GLU	A	304	10.447	26.165	5.320	1.00	0.00
ATOM	4299	1HG	GLU	A	304	11.141	24.966	3.197	1.00	0.00
ATOM	4300	2HG	GLU	A	304	12.708	25.783	3.401	1.00	0.00
ATOM	4301	N	LEU	A	305	10.694	29.862	5.150	1.00	0.00
ATOM	4302	CA	LEU	A	305	10.050	30.873	6.002	1.00	0.00
ATOM	4303	C	LEU	A	305	8.843	31.549	5.352	1.00	0.00
ATOM	4304	O	LEU	A	305	8.831	31.793	4.152	1.00	0.00
ATOM	4305	CB	LEU	A	305	11.091	31.881	6.496	1.00	0.00
ATOM	4306	CG	LEU	A	305	11.437	31.736	7.981	1.00	0.00
ATOM	4307	CD1	LEU	A	305	11.663	30.284	8.405	1.00	0.00
ATOM	4308	CD2	LEU	A	305	12.617	32.628	8.367	1.00	0.00
ATOM	4309	H	LEU	A	305	11.618	30.043	4.784	1.00	0.00
ATOM	4310	HA	LEU	A	305	9.655	30.397	6.899	1.00	0.00
ATOM	4311	1HB	LEU	A	305	11.935	31.582	5.876	1.00	0.00
ATOM	4312	2HB	LEU	A	305	10.807	32.905	6.255	1.00	0.00
ATOM	4313	HG	LEU	A	305	10.575	32.084	8.550	1.00	0.00
ATOM	4314	1HD1	LEU	A	305	11.904	30.248	9.467	1.00	0.00
ATOM	4315	2HD1	LEU	A	305	10.758	29.706	8.220	1.00	0.00
ATOM	4316	3HD1	LEU	A	305	12.488	29.862	7.832	1.00	0.00
ATOM	4317	1HD2	LEU	A	305	12.836	32.502	9.428	1.00	0.00
ATOM	4318	2HD2	LEU	A	305	13.492	32.349	7.779	1.00	0.00
ATOM	4319	3HD2	LEU	A	305	12.365	33.670	8.171	1.00	0.00
ATOM	4320	N	LYS	A	306	7.829	31.853	6.156	1.00	0.00
ATOM	4321	CA	LYS	A	306	6.598	32.491	5.669	1.00	0.00
ATOM	4322	C	LYS	A	306	6.400	33.878	6.292	1.00	0.00
ATOM	4323	O	LYS	A	306	6.635	34.058	7.486	1.00	0.00
ATOM	4324	CB	LYS	A	306	5.385	31.607	5.964	1.00	0.00
ATOM	4325	CG	LYS	A	306	5.367	30.289	5.201	1.00	0.00
ATOM	4326	CD	LYS	A	306	4.115	29.484	5.517	1.00	0.00
ATOM	4327	CE	LYS	A	306	4.102	28.162	4.764	1.00	0.00
ATOM	4328	NZ	LYS	A	306	2.885	27.361	5.067	1.00	0.00
ATOM	4329	H	LYS	A	306	7.914	31.634	7.138	1.00	0.00
ATOM	4330	HA	LYS	A	306	6.663	32.644	4.591	1.00	0.00
ATOM	4331	1HB	LYS	A	306	5.390	31.405	7.035	1.00	0.00
ATOM	4332	2HB	LYS	A	306	4.497	32.186	5.708	1.00	0.00
ATOM	4333	1HG	LYS	A	306	5.400	30.507	4.133	1.00	0.00
ATOM	4334	2HG	LYS	A	306	6.249	29.714	5.481	1.00	0.00
ATOM	4335	1HD	LYS	A	306	4.088	29.292	6.590	1.00	0.00
ATOM	4336	2HD	LYS	A	306	3.243	30.072	5.232	1.00	0.00
ATOM	4337	1HE	LYS	A	306	4.139	28.376	3.697	1.00	0.00
ATOM	4338	2HE	LYS	A	306	4.989	27.597	5.051	1.00	0.00
ATOM	4339	1HZ	LYS	A	306	2.915	26.494	4.549	1.00	0.00
ATOM	4340	2HZ	LYS	A	306	2.851	27.161	6.057	1.00	0.00
ATOM	4341	3HZ	LYS	A	306	2.063	27.884	4.801	1.00	0.00
ATOM	4342	N	THR	A	307	5.967	34.856	5.494	1.00	0.00
ATOM	4343	CA	THR	A	307	5.746	36.206	6.016	1.00	0.00

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ATOM	4344	C	THR	A	307	4.493	36.213	6.868	1.00	0.00
ATOM	4345	O	THR	A	307	3.435	35.753	6.445	1.00	0.00
ATOM	4346	CB	THR	A	307	5.606	37.250	4.893	1.00	0.00
ATOM	4347	OG1	THR	A	307	6.799	37.266	4.099	1.00	0.00
ATOM	4348	CG2	THR	A	307	5.373	38.635	5.479	1.00	0.00
ATOM	4349	H	THR	A	307	5.787	34.671	4.518	1.00	0.00
ATOM	4350	HA	THR	A	307	6.583	36.497	6.652	1.00	0.00
ATOM	4351	HB	THR	A	307	4.762	36.978	4.260	1.00	0.00
ATOM	4352	HG1	THR	A	307	6.709	37.917	3.400	1.00	0.00
ATOM	4353	1HG2	THR	A	307	5.276	39.359	4.670	1.00	0.00
ATOM	4354	2HG2	THR	A	307	4.460	38.629	6.074	1.00	0.00
ATOM	4355	3HG2	THR	A	307	6.217	38.908	6.111	1.00	0.00
ATOM	4356	N	VAL	A	308	4.623	36.744	8.073	1.00	0.00
ATOM	4357	CA	VAL	A	308	3.511	36.821	8.995	1.00	0.00
ATOM	4358	C	VAL	A	308	3.582	38.169	9.681	1.00	0.00
ATOM	4359	O	VAL	A	308	4.506	38.940	9.446	1.00	0.00
ATOM	4360	CB	VAL	A	308	3.513	35.682	10.037	1.00	0.00
ATOM	4361	CG1	VAL	A	308	2.081	35.280	10.402	1.00	0.00
ATOM	4362	CG2	VAL	A	308	4.295	34.443	9.605	1.00	0.00
ATOM	4363	H	VAL	A	308	5.523	37.105	8.356	1.00	0.00
ATOM	4364	HA	VAL	A	308	2.556	36.775	8.470	1.00	0.00
ATOM	4365	HB	VAL	A	308	4.010	36.031	10.942	1.00	0.00
ATOM	4366	1HG1	VAL	A	308	2.105	34.476	11.138	1.00	0.00
ATOM	4367	2HG1	VAL	A	308	1.557	36.139	10.821	1.00	0.00
ATOM	4368	3HG1	VAL	A	308	1.560	34.937	9.508	1.00	0.00
ATOM	4369	1HG2	VAL	A	308	4.249	33.690	10.391	1.00	0.00
ATOM	4370	2HG2	VAL	A	308	3.860	34.040	8.690	1.00	0.00
ATOM	4371	3HG2	VAL	A	308	5.335	34.714	9.424	1.00	0.00
ATOM	4372	N	GLN	A	309	2.589	38.463	10.510	1.00	0.00
ATOM	4373	CA	GLN	A	309	2.568	39.709	11.262	1.00	0.00
ATOM	4374	C	GLN	A	309	2.765	39.261	12.700	1.00	0.00
ATOM	4375	O	GLN	A	309	2.205	38.245	13.115	1.00	0.00
ATOM	4376	CB	GLN	A	309	1.257	40.481	11.087	1.00	0.00
ATOM	4377	CG	GLN	A	309	0.997	40.952	9.666	1.00	0.00
ATOM	4378	CD	GLN	A	309	-0.335	41.662	9.527	1.00	0.00
ATOM	4379	OE1	GLN	A	309	-1.038	41.893	10.515	1.00	0.00
ATOM	4380	NE2	GLN	A	309	-0.693	42.011	8.296	1.00	0.00
ATOM	4381	H	GLN	A	309	1.829	37.807	10.623	1.00	0.00
ATOM	4382	HA	GLN	A	309	3.386	40.349	10.931	1.00	0.00
ATOM	4383	1HB	GLN	A	309	0.455	39.816	11.408	1.00	0.00
ATOM	4384	2HB	GLN	A	309	1.306	41.339	11.756	1.00	0.00
ATOM	4385	1HG	GLN	A	309	1.734	41.505	9.084	1.00	0.00
ATOM	4386	2HG	GLN	A	309	0.896	39.945	9.258	1.00	0.00
ATOM	4387	1HE2	GLN	A	309	-1.563	42.482	8.142	1.00	0.00
ATOM	4388	2HE2	GLN	A	309	-0.094	41.803	7.523	1.00	0.00
ATOM	4389	N	ALA	A	310	3.552	39.994	13.473	1.00	0.00
ATOM	4390	CA	ALA	A	310	3.780	39.552	14.835	1.00	0.00
ATOM	4391	C	ALA	A	310	4.018	40.657	15.821	1.00	0.00
ATOM	4392	O	ALA	A	310	4.255	41.805	15.456	1.00	0.00
ATOM	4393	CB	ALA	A	310	5.021	38.661	14.889	1.00	0.00
ATOM	4394	H	ALA	A	310	3.995	40.842	13.150	1.00	0.00
ATOM	4395	HA	ALA	A	310	2.887	39.038	15.190	1.00	0.00
ATOM	4396	1HB	ALA	A	310	5.187	38.332	15.915	1.00	0.00
ATOM	4397	2HB	ALA	A	310	4.873	37.791	14.249	1.00	0.00
ATOM	4398	3HB	ALA	A	310	5.887	39.223	14.544	1.00	0.00
ATOM	4399	N	VAL	A	311	3.925	40.289	17.089	1.00	0.00
ATOM	4400	CA	VAL	A	311	4.170	41.213	18.176	1.00	0.00
ATOM	4401	C	VAL	A	311	5.614	40.920	18.508	1.00	0.00
ATOM	4402	O	VAL	A	311	5.935	39.881	19.075	1.00	0.00
ATOM	4403	CB	VAL	A	311	3.257	41.004	19.399	1.00	0.00
ATOM	4404	CG1	VAL	A	311	3.609	41.991	20.501	1.00	0.00
ATOM	4405	CG2	VAL	A	311	1.795	41.148	19.003	1.00	0.00
ATOM	4406	H	VAL	A	311	3.675	39.334	17.302	1.00	0.00

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ATOM	4407	HA	VAL	A	311	4.044	42.247	17.853	1.00	0.00
ATOM	4408	HB	VAL	A	311	3.386	39.986	19.767	1.00	0.00
ATOM	4409	1HG1	VAL	A	311	2.954	41.829	21.358	1.00	0.00
ATOM	4410	2HG1	VAL	A	311	4.645	41.844	20.805	1.00	0.00
ATOM	4411	3HG1	VAL	A	311	3.479	43.009	20.134	1.00	0.00
ATOM	4412	1HG2	VAL	A	311	1.164	40.997	19.879	1.00	0.00
ATOM	4413	2HG2	VAL	A	311	1.625	42.147	18.601	1.00	0.00
ATOM	4414	3HG2	VAL	A	311	1.548	40.405	18.246	1.00	0.00
ATOM	4415	N	LEU	A	312	6.480	41.842	18.116	1.00	0.00
ATOM	4416	CA	LEU	A	312	7.907	41.694	18.304	1.00	0.00
ATOM	4417	C	LEU	A	312	8.535	42.610	19.353	1.00	0.00
ATOM	4418	O	LEU	A	312	8.298	43.825	19.379	1.00	0.00
ATOM	4419	CB	LEU	A	312	8.604	41.908	16.955	1.00	0.00
ATOM	4420	CG	LEU	A	312	10.127	42.080	17.026	1.00	0.00
ATOM	4421	CD1	LEU	A	312	10.789	40.744	17.331	1.00	0.00
ATOM	4422	CD2	LEU	A	312	10.637	42.648	15.710	1.00	0.00
ATOM	4423	H	LEU	A	312	6.126	42.677	17.670	1.00	0.00
ATOM	4424	HA	LEU	A	312	8.124	40.693	18.675	1.00	0.00
ATOM	4425	1HB	LEU	A	312	8.357	40.962	16.476	1.00	0.00
ATOM	4426	2HB	LEU	A	312	8.155	42.727	16.393	1.00	0.00
ATOM	4427	HG	LEU	A	312	10.333	42.812	17.808	1.00	0.00
ATOM	4428	1HD1	LEU	A	312	11.870	40.876	17.380	1.00	0.00
ATOM	4429	2HD1	LEU	A	312	10.427	40.367	18.288	1.00	0.00
ATOM	4430	3HD1	LEU	A	312	10.547	40.030	16.544	1.00	0.00
ATOM	4431	1HD2	LEU	A	312	11.719	42.770	15.763	1.00	0.00
ATOM	4432	2HD2	LEU	A	312	10.388	41.965	14.898	1.00	0.00
ATOM	4433	3HD2	LEU	A	312	10.171	43.616	15.526	1.00	0.00
ATOM	4434	N	THR	A	313	9.336	42.004	20.222	1.00	0.00
ATOM	4435	CA	THR	A	313	10.079	42.732	21.243	1.00	0.00
ATOM	4436	C	THR	A	313	11.487	42.177	21.176	1.00	0.00
ATOM	4437	O	THR	A	313	11.710	40.991	21.427	1.00	0.00
ATOM	4438	CB	THR	A	313	9.498	42.561	22.659	1.00	0.00
ATOM	4439	OG1	THR	A	313	9.418	41.166	22.980	1.00	0.00
ATOM	4440	CG2	THR	A	313	8.110	43.177	22.744	1.00	0.00
ATOM	4441	H	THR	A	313	9.429	41.000	20.168	1.00	0.00
ATOM	4442	HA	THR	A	313	10.079	43.797	21.010	1.00	0.00
ATOM	4443	HB	THR	A	313	10.157	43.052	23.374	1.00	0.00
ATOM	4444	HG1	THR	A	313	8.636	40.788	22.569	1.00	0.00
ATOM	4445	1HG2	THR	A	313	7.716	43.047	23.752	1.00	0.00
ATOM	4446	2HG2	THR	A	313	8.170	44.240	22.512	1.00	0.00
ATOM	4447	3HG2	THR	A	313	7.450	42.686	22.030	1.00	0.00
ATOM	4448	N	VAL	A	314	12.430	43.032	20.806	1.00	0.00
ATOM	4449	CA	VAL	A	314	13.827	42.636	20.706	1.00	0.00
ATOM	4450	C	VAL	A	314	14.677	43.605	21.535	1.00	0.00
ATOM	4451	O	VAL	A	314	14.530	44.825	21.422	1.00	0.00
ATOM	4452	CB	VAL	A	314	14.321	42.624	19.247	1.00	0.00
ATOM	4453	CG1	VAL	A	314	13.985	43.939	18.560	1.00	0.00
ATOM	4454	CG2	VAL	A	314	15.818	42.363	19.194	1.00	0.00
ATOM	4455	H	VAL	A	314	12.172	43.984	20.588	1.00	0.00
ATOM	4456	HA	VAL	A	314	13.990	41.645	21.132	1.00	0.00
ATOM	4457	HB	VAL	A	314	13.838	41.803	18.717	1.00	0.00
ATOM	4458	1HG1	VAL	A	314	14.341	43.913	17.530	1.00	0.00
ATOM	4459	2HG1	VAL	A	314	12.906	44.088	18.567	1.00	0.00
ATOM	4460	3HG1	VAL	A	314	14.469	44.760	19.089	1.00	0.00
ATOM	4461	1HG2	VAL	A	314	16.150	42.357	18.156	1.00	0.00
ATOM	4462	2HG2	VAL	A	314	16.343	43.148	19.738	1.00	0.00
ATOM	4463	3HG2	VAL	A	314	16.037	41.397	19.649	1.00	0.00
ATOM	4464	N	PRO	A	315	15.572	43.069	22.388	1.00	0.00
ATOM	4465	CA	PRO	A	315	16.424	43.920	23.220	1.00	0.00
ATOM	4466	C	PRO	A	315	17.380	44.808	22.426	1.00	0.00
ATOM	4467	O	PRO	A	315	17.751	44.488	21.293	1.00	0.00
ATOM	4468	CB	PRO	A	315	17.184	42.916	24.093	1.00	0.00
ATOM	4469	CG	PRO	A	315	16.328	41.696	24.086	1.00	0.00

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ATOM	4470	CD	PRO	A	315	15.711	41.648	22.714	1.00	0.00
ATOM	4471	HA	PRO	A	315	15.849	44.642	23.819	1.00	0.00
ATOM	4472	1HB	PRO	A	315	18.184	42.704	23.686	1.00	0.00
ATOM	4473	2HB	PRO	A	315	17.326	43.297	25.115	1.00	0.00
ATOM	4474	1HG	PRO	A	315	16.923	40.792	24.284	1.00	0.00
ATOM	4475	2HG	PRO	A	315	15.554	41.749	24.866	1.00	0.00
ATOM	4476	1HD	PRO	A	315	16.349	41.120	21.989	1.00	0.00
ATOM	4477	2HD	PRO	A	315	14.736	41.140	22.714	1.00	0.00
ATOM	4478	N	LYS	A	316	17.748	45.940	23.022	1.00	0.00
ATOM	4479	CA	LYS	A	316	18.697	46.866	22.415	1.00	0.00
ATOM	4480	C	LYS	A	316	20.032	46.163	22.611	1.00	0.00
ATOM	4481	O	LYS	A	316	20.294	45.612	23.683	1.00	0.00
ATOM	4482	CB	LYS	A	316	18.674	48.251	23.064	1.00	0.00
ATOM	4483	CG	LYS	A	316	19.608	49.265	22.417	1.00	0.00
ATOM	4484	CD	LYS	A	316	19.462	50.638	23.057	1.00	0.00
ATOM	4485	CE	LYS	A	316	20.385	51.655	22.401	1.00	0.00
ATOM	4486	NZ	LYS	A	316	20.242	53.007	23.006	1.00	0.00
ATOM	4487	H	LYS	A	316	17.354	46.161	23.925	1.00	0.00
ATOM	4488	HA	LYS	A	316	18.460	46.997	21.359	1.00	0.00
ATOM	4489	1HB	LYS	A	316	17.647	48.614	23.006	1.00	0.00
ATOM	4490	2HB	LYS	A	316	18.952	48.118	24.110	1.00	0.00
ATOM	4491	1HG	LYS	A	316	20.634	48.915	22.536	1.00	0.00
ATOM	4492	2HG	LYS	A	316	19.367	49.330	21.357	1.00	0.00
ATOM	4493	1HD	LYS	A	316	18.426	50.963	22.949	1.00	0.00
ATOM	4494	2HD	LYS	A	316	19.707	50.556	24.115	1.00	0.00
ATOM	4495	1HE	LYS	A	316	21.411	51.311	22.519	1.00	0.00
ATOM	4496	2HE	LYS	A	316	20.139	51.705	21.341	1.00	0.00
ATOM	4497	1HZ	LYS	A	316	20.869	53.650	22.544	1.00	0.00
ATOM	4498	2HZ	LYS	A	316	19.290	53.327	22.896	1.00	0.00
ATOM	4499	3HZ	LYS	A	316	20.470	52.961	23.989	1.00	0.00
ATOM	4500	N	LEU	A	317	20.881	46.175	21.594	1.00	0.00
ATOM	4501	CA	LEU	A	317	22.159	45.486	21.713	1.00	0.00
ATOM	4502	C	LEU	A	317	23.379	46.305	21.294	1.00	0.00
ATOM	4503	O	LEU	A	317	23.388	46.930	20.235	1.00	0.00
ATOM	4504	CB	LEU	A	317	22.072	44.208	20.881	1.00	0.00
ATOM	4505	CG	LEU	A	317	23.003	43.085	21.324	1.00	0.00
ATOM	4506	CD1	LEU	A	317	22.613	42.553	22.705	1.00	0.00
ATOM	4507	CD2	LEU	A	317	23.068	41.974	20.275	1.00	0.00
ATOM	4508	H	LEU	A	317	20.659	46.655	20.733	1.00	0.00
ATOM	4509	HA	LEU	A	317	22.349	45.247	22.759	1.00	0.00
ATOM	4510	1HB	LEU	A	317	21.037	43.937	21.081	1.00	0.00
ATOM	4511	2HB	LEU	A	317	22.196	44.410	19.817	1.00	0.00
ATOM	4512	HG	LEU	A	317	24.005	43.508	21.405	1.00	0.00
ATOM	4513	1HD1	LEU	A	317	23.295	41.753	22.993	1.00	0.00
ATOM	4514	2HD1	LEU	A	317	22.672	43.360	23.436	1.00	0.00
ATOM	4515	3HD1	LEU	A	317	21.595	42.166	22.671	1.00	0.00
ATOM	4516	1HD2	LEU	A	317	23.741	41.188	20.620	1.00	0.00
ATOM	4517	2HD2	LEU	A	317	22.072	41.559	20.122	1.00	0.00
ATOM	4518	3HD2	LEU	A	317	23.439	42.382	19.335	1.00	0.00
ATOM	4519	N	LYS	A	318	24.399	46.307	22.147	1.00	0.00
ATOM	4520	CA	LYS	A	318	25.654	47.009	21.872	1.00	0.00
ATOM	4521	C	LYS	A	318	26.721	46.141	22.515	1.00	0.00
ATOM	4522	O	LYS	A	318	26.915	46.176	23.729	1.00	0.00
ATOM	4523	CB	LYS	A	318	25.667	48.431	22.436	1.00	0.00
ATOM	4524	CG	LYS	A	318	26.902	49.242	22.068	1.00	0.00
ATOM	4525	CD	LYS	A	318	26.804	50.667	22.591	1.00	0.00
ATOM	4526	CE	LYS	A	318	27.987	51.508	22.135	1.00	0.00
ATOM	4527	NZ	LYS	A	318	27.859	52.927	22.564	1.00	0.00
ATOM	4528	H	LYS	A	318	24.298	45.803	23.016	1.00	0.00
ATOM	4529	HA	LYS	A	318	25.808	47.081	20.795	1.00	0.00
ATOM	4530	1HB	LYS	A	318	24.777	48.933	22.057	1.00	0.00
ATOM	4531	2HB	LYS	A	318	25.600	48.345	23.521	1.00	0.00
ATOM	4532	1HG	LYS	A	318	27.777	48.756	22.500	1.00	0.00

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ATOM	4533	2HG	LYS	A	318	26.995	49.259	20.983	1.00	0.00
ATOM	4534	1HD	LYS	A	318	25.878	51.110	22.221	1.00	0.00
ATOM	4535	2HD	LYS	A	318	26.780	50.637	23.681	1.00	0.00
ATOM	4536	1HE	LYS	A	318	28.894	51.081	22.560	1.00	0.00
ATOM	4537	2HE	LYS	A	318	28.039	51.462	21.048	1.00	0.00
ATOM	4538	1HZ	LYS	A	318	28.662	53.450	22.242	1.00	0.00
ATOM	4539	2HZ	LYS	A	318	27.018	53.325	22.170	1.00	0.00
ATOM	4540	3HZ	LYS	A	318	27.811	52.971	23.572	1.00	0.00
ATOM	4541	N	LEU	A	319	27.401	45.348	21.692	1.00	0.00
ATOM	4542	CA	LEU	A	319	28.411	44.429	22.191	1.00	0.00
ATOM	4543	C	LEU	A	319	29.757	44.559	21.508	1.00	0.00
ATOM	4544	O	LEU	A	319	29.871	45.082	20.398	1.00	0.00
ATOM	4545	CB	LEU	A	319	28.021	42.966	21.983	1.00	0.00
ATOM	4546	CG	LEU	A	319	26.636	42.513	22.425	1.00	0.00
ATOM	4547	CD1	LEU	A	319	26.461	41.027	22.125	1.00	0.00
ATOM	4548	CD2	LEU	A	319	26.343	42.816	23.890	1.00	0.00
ATOM	4549	H	LEU	A	319	27.214	45.383	20.700	1.00	0.00
ATOM	4550	HA	LEU	A	319	28.612	44.642	23.240	1.00	0.00
ATOM	4551	1HB	LEU	A	319	28.075	42.921	20.896	1.00	0.00
ATOM	4552	2HB	LEU	A	319	28.758	42.287	22.412	1.00	0.00
ATOM	4553	HG	LEU	A	319	25.909	43.083	21.846	1.00	0.00
ATOM	4554	1HD1	LEU	A	319	25.469	40.706	22.442	1.00	0.00
ATOM	4555	2HD1	LEU	A	319	26.571	40.857	21.054	1.00	0.00
ATOM	4556	3HD1	LEU	A	319	27.216	40.456	22.664	1.00	0.00
ATOM	4557	1HD2	LEU	A	319	25.340	42.468	24.139	1.00	0.00
ATOM	4558	2HD2	LEU	A	319	27.072	42.306	24.520	1.00	0.00
ATOM	4559	3HD2	LEU	A	319	26.406	43.891	24.059	1.00	0.00
ATOM	4560	N	SER	A	320	30.776	44.064	22.200	1.00	0.00
ATOM	4561	CA	SER	A	320	32.140	44.075	21.704	1.00	0.00
ATOM	4562	C	SER	A	320	32.837	42.820	22.222	1.00	0.00
ATOM	4563	O	SER	A	320	32.386	42.185	23.183	1.00	0.00
ATOM	4564	CB	SER	A	320	32.867	45.331	22.143	1.00	0.00
ATOM	4565	OG	SER	A	320	33.038	45.381	23.533	1.00	0.00
ATOM	4566	H	SER	A	320	30.586	43.665	23.108	1.00	0.00
ATOM	4567	HA	SER	A	320	32.205	44.165	20.619	1.00	0.00
ATOM	4568	1HB	SER	A	320	33.845	45.353	21.665	1.00	0.00
ATOM	4569	2HB	SER	A	320	32.289	46.198	21.826	1.00	0.00
ATOM	4570	HG	SER	A	320	33.500	46.189	23.769	1.00	0.00
ATOM	4571	N	TYR	A	321	33.921	42.451	21.552	1.00	0.00
ATOM	4572	CA	TYR	A	321	34.697	41.283	21.912	1.00	0.00
ATOM	4573	C	TYR	A	321	36.099	41.506	21.415	1.00	0.00
ATOM	4574	O	TYR	A	321	36.308	41.992	20.302	1.00	0.00
ATOM	4575	CB	TYR	A	321	34.103	40.004	21.317	1.00	0.00
ATOM	4576	CG	TYR	A	321	34.985	38.786	21.480	1.00	0.00
ATOM	4577	CD1	TYR	A	321	35.059	38.118	22.694	1.00	0.00
ATOM	4578	CD2	TYR	A	321	35.738	38.306	20.419	1.00	0.00
ATOM	4579	CE1	TYR	A	321	35.863	37.004	22.848	1.00	0.00
ATOM	4580	CE2	TYR	A	321	36.544	37.193	20.562	1.00	0.00
ATOM	4581	CZ	TYR	A	321	36.604	36.545	21.779	1.00	0.00
ATOM	4582	OH	TYR	A	321	37.405	35.436	21.926	1.00	0.00
ATOM	4583	H	TYR	A	321	34.211	43.010	20.762	1.00	0.00
ATOM	4584	HA	TYR	A	321	34.717	41.172	22.996	1.00	0.00
ATOM	4585	1HB	TYR	A	321	33.148	39.831	21.813	1.00	0.00
ATOM	4586	2HB	TYR	A	321	33.934	40.191	20.257	1.00	0.00
ATOM	4587	HD1	TYR	A	321	34.471	38.486	23.534	1.00	0.00
ATOM	4588	HD2	TYR	A	321	35.686	38.822	19.461	1.00	0.00
ATOM	4589	HE1	TYR	A	321	35.912	36.490	23.808	1.00	0.00
ATOM	4590	HE2	TYR	A	321	37.129	36.832	19.716	1.00	0.00
ATOM	4591	HH	TYR	A	321	38.090	35.376	21.256	1.00	0.00
ATOM	4592	N	GLU	A	322	37.057	41.140	22.253	1.00	0.00
ATOM	4593	CA	GLU	A	322	38.459	41.284	21.930	1.00	0.00
ATOM	4594	C	GLU	A	322	39.144	40.103	22.569	1.00	0.00
ATOM	4595	O	GLU	A	322	39.312	40.071	23.778	1.00	0.00

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ATOM	4596	CB	GLU	A	322	39.035	42.608	22.438	1.00	0.00
ATOM	4597	CG	GLU	A	322	38.461	43.844	21.761	1.00	0.00
ATOM	4598	CD	GLU	A	322	39.214	45.083	22.157	1.00	0.00
ATOM	4599	OE1	GLU	A	322	40.289	44.957	22.693	1.00	0.00
ATOM	4600	OE2	GLU	A	322	38.769	46.157	21.825	1.00	0.00
ATOM	4601	H	GLU	A	322	36.796	40.748	23.146	1.00	0.00
ATOM	4602	HA	GLU	A	322	38.594	41.255	20.848	1.00	0.00
ATOM	4603	1HB	GLU	A	322	38.831	42.654	23.508	1.00	0.00
ATOM	4604	2HB	GLU	A	322	40.112	42.571	22.274	1.00	0.00
ATOM	4605	1HG	GLU	A	322	38.433	43.769	20.674	1.00	0.00
ATOM	4606	2HG	GLU	A	322	37.444	43.899	22.146	1.00	0.00
ATOM	4607	N	GLY	A	323	39.521	39.122	21.765	1.00	0.00
ATOM	4608	CA	GLY	A	323	40.172	37.966	22.330	1.00	0.00
ATOM	4609	C	GLY	A	323	41.084	37.268	21.357	1.00	0.00
ATOM	4610	O	GLY	A	323	41.451	37.815	20.321	1.00	0.00
ATOM	4611	H	GLY	A	323	39.365	39.161	20.768	1.00	0.00
ATOM	4612	1HA	GLY	A	323	40.768	38.277	23.188	1.00	0.00
ATOM	4613	2HA	GLY	A	323	39.414	37.253	22.654	1.00	0.00
ATOM	4614	N	GLU	A	324	41.457	36.048	21.713	1.00	0.00
ATOM	4615	CA	GLU	A	324	42.320	35.233	20.887	1.00	0.00
ATOM	4616	C	GLU	A	324	41.557	33.950	20.567	1.00	0.00
ATOM	4617	O	GLU	A	324	40.974	33.327	21.452	1.00	0.00
ATOM	4618	CB	GLU	A	324	43.645	34.932	21.590	1.00	0.00
ATOM	4619	CG	GLU	A	324	44.517	36.154	21.840	1.00	0.00
ATOM	4620	CD	GLU	A	324	44.087	36.888	23.080	1.00	0.00
ATOM	4621	OE1	GLU	A	324	43.277	36.364	23.806	1.00	0.00
ATOM	4622	OE2	GLU	A	324	44.650	37.919	23.361	1.00	0.00
ATOM	4623	H	GLU	A	324	41.125	35.678	22.592	1.00	0.00
ATOM	4624	HA	GLU	A	324	42.541	35.755	19.955	1.00	0.00
ATOM	4625	1HB	GLU	A	324	43.400	34.461	22.543	1.00	0.00
ATOM	4626	2HB	GLU	A	324	44.186	34.223	20.963	1.00	0.00
ATOM	4627	1HG	GLU	A	324	45.580	35.923	21.906	1.00	0.00
ATOM	4628	2HG	GLU	A	324	44.336	36.780	20.967	1.00	0.00
ATOM	4629	N	VAL	A	325	41.545	33.570	19.296	1.00	0.00
ATOM	4630	CA	VAL	A	325	40.849	32.366	18.866	1.00	0.00
ATOM	4631	C	VAL	A	325	41.864	31.315	18.407	1.00	0.00
ATOM	4632	O	VAL	A	325	41.568	30.477	17.557	1.00	0.00
ATOM	4633	CB	VAL	A	325	39.856	32.657	17.726	1.00	0.00
ATOM	4634	CG1	VAL	A	325	38.739	33.569	18.212	1.00	0.00
ATOM	4635	CG2	VAL	A	325	40.574	33.283	16.540	1.00	0.00
ATOM	4636	H	VAL	A	325	42.031	34.129	18.609	1.00	0.00
ATOM	4637	HA	VAL	A	325	40.303	31.907	19.691	1.00	0.00
ATOM	4638	HB	VAL	A	325	39.430	31.716	17.377	1.00	0.00
ATOM	4639	1HG1	VAL	A	325	38.045	33.764	17.393	1.00	0.00
ATOM	4640	2HG1	VAL	A	325	38.205	33.086	19.031	1.00	0.00
ATOM	4641	3HG1	VAL	A	325	39.163	34.510	18.559	1.00	0.00
ATOM	4642	1HG2	VAL	A	325	39.857	33.482	15.743	1.00	0.00
ATOM	4643	2HG2	VAL	A	325	41.040	34.218	16.851	1.00	0.00
ATOM	4644	3HG2	VAL	A	325	41.340	32.599	16.176	1.00	0.00
ATOM	4645	N	THR	A	326	43.063	31.366	18.981	1.00	0.00
ATOM	4646	CA	THR	A	326	44.122	30.428	18.620	1.00	0.00
ATOM	4647	C	THR	A	326	43.843	29.035	19.175	1.00	0.00
ATOM	4648	O	THR	A	326	44.133	28.027	18.526	1.00	0.00
ATOM	4649	CB	THR	A	326	45.495	30.905	19.128	1.00	0.00
ATOM	4650	OG1	THR	A	326	45.890	32.083	18.412	1.00	0.00
ATOM	4651	CG2	THR	A	326	46.543	29.821	18.929	1.00	0.00
ATOM	4652	H	THR	A	326	43.247	32.069	19.683	1.00	0.00
ATOM	4653	HA	THR	A	326	44.168	30.323	17.536	1.00	0.00
ATOM	4654	HB	THR	A	326	45.418	31.144	20.188	1.00	0.00
ATOM	4655	HG1	THR	A	326	45.948	31.882	17.475	1.00	0.00
ATOM	4656	1HG2	THR	A	326	47.507	30.176	19.294	1.00	0.00
ATOM	4657	2HG2	THR	A	326	46.252	28.928	19.482	1.00	0.00
ATOM	4658	3HG2	THR	A	326	46.622	29.582	17.869	1.00	0.00

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ATOM	4659	N	LYS	A	327	43.289	28.981	20.382	1.00	0.00
ATOM	4660	CA	LYS	A	327	42.985	27.702	21.005	1.00	0.00
ATOM	4661	C	LYS	A	327	41.834	27.019	20.281	1.00	0.00
ATOM	4662	O	LYS	A	327	41.770	25.791	20.225	1.00	0.00
ATOM	4663	CB	LYS	A	327	42.646	27.888	22.485	1.00	0.00
ATOM	4664	CG	LYS	A	327	42.386	26.591	23.239	1.00	0.00
ATOM	4665	CD	LYS	A	327	42.155	26.849	24.720	1.00	0.00
ATOM	4666	CE	LYS	A	327	41.898	25.553	25.475	1.00	0.00
ATOM	4667	NZ	LYS	A	327	41.683	25.789	26.929	1.00	0.00
ATOM	4668	H	LYS	A	327	43.074	29.834	20.879	1.00	0.00
ATOM	4669	HA	LYS	A	327	43.848	27.040	20.929	1.00	0.00
ATOM	4670	1HB	LYS	A	327	43.487	28.411	22.941	1.00	0.00
ATOM	4671	2HB	LYS	A	327	41.758	28.519	22.533	1.00	0.00
ATOM	4672	1HG	LYS	A	327	41.505	26.112	22.811	1.00	0.00
ATOM	4673	2HG	LYS	A	327	43.250	25.939	23.114	1.00	0.00
ATOM	4674	1HD	LYS	A	327	43.039	27.340	25.130	1.00	0.00
ATOM	4675	2HD	LYS	A	327	41.293	27.508	24.828	1.00	0.00
ATOM	4676	1HE	LYS	A	327	41.015	25.079	25.050	1.00	0.00
ATOM	4677	2HE	LYS	A	327	42.761	24.901	25.337	1.00	0.00
ATOM	4678	1HZ	LYS	A	327	41.517	24.906	27.392	1.00	0.00
ATOM	4679	2HZ	LYS	A	327	42.503	26.227	27.324	1.00	0.00
ATOM	4680	3HZ	LYS	A	327	40.884	26.392	27.057	1.00	0.00
ATOM	4681	N	SER	A	328	40.932	27.824	19.725	1.00	0.00
ATOM	4682	CA	SER	A	328	39.782	27.305	18.991	1.00	0.00
ATOM	4683	C	SER	A	328	40.264	26.666	17.695	1.00	0.00
ATOM	4684	O	SER	A	328	39.924	25.523	17.377	1.00	0.00
ATOM	4685	CB	SER	A	328	38.781	28.409	18.710	1.00	0.00
ATOM	4686	OG	SER	A	328	38.193	28.897	19.884	1.00	0.00
ATOM	4687	H	SER	A	328	41.048	28.823	19.815	1.00	0.00
ATOM	4688	HA	SER	A	328	39.173	26.612	19.574	1.00	0.00
ATOM	4689	1HB	SER	A	328	39.297	29.226	18.205	1.00	0.00
ATOM	4690	2HB	SER	A	328	38.001	28.016	18.059	1.00	0.00
ATOM	4691	HG	SER	A	328	37.568	29.592	19.662	1.00	0.00
ATOM	4692	N	LEU	A	329	41.064	27.415	16.950	1.00	0.00
ATOM	4693	CA	LEU	A	329	41.579	26.921	15.696	1.00	0.00
ATOM	4694	C	LEU	A	329	42.407	25.666	15.907	1.00	0.00
ATOM	4695	O	LEU	A	329	42.430	24.785	15.054	1.00	0.00
ATOM	4696	CB	LEU	A	329	42.389	28.001	14.984	1.00	0.00
ATOM	4697	CG	LEU	A	329	41.501	29.147	14.500	1.00	0.00
ATOM	4698	CD1	LEU	A	329	42.313	30.264	13.848	1.00	0.00
ATOM	4699	CD2	LEU	A	329	40.391	28.646	13.578	1.00	0.00
ATOM	4700	H	LEU	A	329	41.321	28.343	17.256	1.00	0.00
ATOM	4701	HA	LEU	A	329	40.751	26.641	15.046	1.00	0.00
ATOM	4702	1HB	LEU	A	329	43.027	28.316	15.808	1.00	0.00
ATOM	4703	2HB	LEU	A	329	43.005	27.584	14.187	1.00	0.00
ATOM	4704	HG	LEU	A	329	41.015	29.573	15.378	1.00	0.00
ATOM	4705	1HD1	LEU	A	329	41.642	31.058	13.519	1.00	0.00
ATOM	4706	2HD1	LEU	A	329	43.023	30.667	14.570	1.00	0.00
ATOM	4707	3HD1	LEU	A	329	42.853	29.867	12.989	1.00	0.00
ATOM	4708	1HD2	LEU	A	329	39.779	29.489	13.254	1.00	0.00
ATOM	4709	2HD2	LEU	A	329	40.832	28.161	12.707	1.00	0.00
ATOM	4710	3HD2	LEU	A	329	39.767	27.931	14.114	1.00	0.00
ATOM	4711	N	GLN	A	330	43.072	25.564	17.052	1.00	0.00
ATOM	4712	CA	GLN	A	330	43.900	24.396	17.312	1.00	0.00
ATOM	4713	C	GLN	A	330	43.107	23.101	17.339	1.00	0.00
ATOM	4714	O	GLN	A	330	43.598	22.062	16.886	1.00	0.00
ATOM	4715	CB	GLN	A	330	44.639	24.563	18.643	1.00	0.00
ATOM	4716	CG	GLN	A	330	45.591	23.427	18.973	1.00	0.00
ATOM	4717	CD	GLN	A	330	46.361	23.672	20.257	1.00	0.00
ATOM	4718	OE1	GLN	A	330	46.161	24.684	20.934	1.00	0.00
ATOM	4719	NE2	GLN	A	330	47.250	22.746	20.598	1.00	0.00
ATOM	4720	H	GLN	A	330	43.012	26.290	17.751	1.00	0.00
ATOM	4721	HA	GLN	A	330	44.624	24.275	16.507	1.00	0.00

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ATOM	4722	1HB	GLN	A	330	45.191	25.501	18.580	1.00	0.00
ATOM	4723	2HB	GLN	A	330	43.877	24.642	19.418	1.00	0.00
ATOM	4724	1HG	GLN	A	330	45.287	22.380	18.959	1.00	0.00
ATOM	4725	2HG	GLN	A	330	46.255	23.622	18.130	1.00	0.00
ATOM	4726	1HE2	GLN	A	330	47.789	22.854	21.435	1.00	0.00
ATOM	4727	2HE2	GLN	A	330	47.382	21.941	20.019	1.00	0.00
ATOM	4728	N	GLU	A	331	41.885	23.142	17.858	1.00	0.00
ATOM	4729	CA	GLU	A	331	41.087	21.928	17.863	1.00	0.00
ATOM	4730	C	GLU	A	331	40.067	21.976	16.741	1.00	0.00
ATOM	4731	O	GLU	A	331	38.917	21.574	16.899	1.00	0.00
ATOM	4732	CB	GLU	A	331	40.389	21.740	19.212	1.00	0.00
ATOM	4733	CG	GLU	A	331	41.317	21.341	20.350	1.00	0.00
ATOM	4734	CD	GLU	A	331	40.556	21.149	21.633	1.00	0.00
ATOM	4735	OE1	GLU	A	331	39.354	21.260	21.611	1.00	0.00
ATOM	4736	OE2	GLU	A	331	41.164	20.781	22.611	1.00	0.00
ATOM	4737	H	GLU	A	331	41.495	23.988	18.248	1.00	0.00
ATOM	4738	HA	GLU	A	331	41.727	21.064	17.683	1.00	0.00
ATOM	4739	1HB	GLU	A	331	39.904	22.686	19.454	1.00	0.00
ATOM	4740	2HB	GLU	A	331	39.631	20.969	19.074	1.00	0.00
ATOM	4741	1HG	GLU	A	331	41.902	20.446	20.139	1.00	0.00
ATOM	4742	2HG	GLU	A	331	41.984	22.195	20.448	1.00	0.00
ATOM	4743	N	MET	A	332	40.515	22.488	15.599	1.00	0.00
ATOM	4744	CA	MET	A	332	39.698	22.587	14.396	1.00	0.00
ATOM	4745	C	MET	A	332	40.515	22.029	13.250	1.00	0.00
ATOM	4746	O	MET	A	332	40.463	22.529	12.129	1.00	0.00
ATOM	4747	CB	MET	A	332	39.297	24.027	14.077	1.00	0.00
ATOM	4748	CG	MET	A	332	38.144	24.534	14.938	1.00	0.00
ATOM	4749	SD	MET	A	332	37.693	26.228	14.543	1.00	0.00
ATOM	4750	CE	MET	A	332	37.351	25.974	12.796	1.00	0.00
ATOM	4751	H	MET	A	332	41.468	22.821	15.575	1.00	0.00
ATOM	4752	HA	MET	A	332	38.793	21.991	14.511	1.00	0.00
ATOM	4753	1HB	MET	A	332	40.181	24.644	14.233	1.00	0.00
ATOM	4754	2HB	MET	A	332	39.016	24.053	13.023	1.00	0.00
ATOM	4755	1HG	MET	A	332	37.286	23.884	14.774	1.00	0.00
ATOM	4756	2HG	MET	A	332	38.450	24.476	15.982	1.00	0.00
ATOM	4757	1HE	MET	A	332	37.047	26.918	12.343	1.00	0.00
ATOM	4758	2HE	MET	A	332	38.249	25.605	12.299	1.00	0.00
ATOM	4759	3HE	MET	A	332	36.549	25.243	12.685	1.00	0.00
ATOM	4760	N	LYS	A	333	41.271	20.979	13.559	1.00	0.00
ATOM	4761	CA	LYS	A	333	42.132	20.316	12.594	1.00	0.00
ATOM	4762	C	LYS	A	333	43.063	21.329	11.940	1.00	0.00
ATOM	4763	O	LYS	A	333	43.269	21.326	10.722	1.00	0.00
ATOM	4764	CB	LYS	A	333	41.301	19.592	11.534	1.00	0.00
ATOM	4765	CG	LYS	A	333	40.411	18.483	12.081	1.00	0.00
ATOM	4766	CD	LYS	A	333	39.625	17.805	10.969	1.00	0.00
ATOM	4767	CE	LYS	A	333	38.697	16.733	11.521	1.00	0.00
ATOM	4768	NZ	LYS	A	333	37.853	16.126	10.456	1.00	0.00
ATOM	4769	H	LYS	A	333	41.239	20.634	14.508	1.00	0.00
ATOM	4770	HA	LYS	A	333	42.759	19.582	13.102	1.00	0.00
ATOM	4771	1HB	LYS	A	333	40.682	20.344	11.044	1.00	0.00
ATOM	4772	2HB	LYS	A	333	42.000	19.171	10.811	1.00	0.00
ATOM	4773	1HG	LYS	A	333	41.042	17.748	12.582	1.00	0.00
ATOM	4774	2HG	LYS	A	333	39.719	18.918	12.802	1.00	0.00
ATOM	4775	1HD	LYS	A	333	39.038	18.562	10.447	1.00	0.00
ATOM	4776	2HD	LYS	A	333	40.330	17.350	10.273	1.00	0.00
ATOM	4777	1HE	LYS	A	333	39.306	15.959	11.986	1.00	0.00
ATOM	4778	2HE	LYS	A	333	38.056	17.191	12.275	1.00	0.00
ATOM	4779	1HZ	LYS	A	333	37.253	15.422	10.863	1.00	0.00
ATOM	4780	2HZ	LYS	A	333	37.286	16.843	10.026	1.00	0.00
ATOM	4781	3HZ	LYS	A	333	38.446	15.701	9.758	1.00	0.00
ATOM	4782	N	LEU	A	334	43.638	22.189	12.771	1.00	0.00
ATOM	4783	CA	LEU	A	334	44.539	23.214	12.288	1.00	0.00
ATOM	4784	C	LEU	A	334	45.793	23.296	13.154	1.00	0.00

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ATOM	4785	O	LEU	A	334	46.552	24.258	13.068	1.00	0.00
ATOM	4786	CB	LEU	A	334	43.821	24.569	12.249	1.00	0.00
ATOM	4787	CG	LEU	A	334	42.786	24.727	11.128	1.00	0.00
ATOM	4788	CD1	LEU	A	334	41.980	26.002	11.337	1.00	0.00
ATOM	4789	CD2	LEU	A	334	43.494	24.752	9.781	1.00	0.00
ATOM	4790	H	LEU	A	334	43.445	22.130	13.761	1.00	0.00
ATOM	4791	HA	LEU	A	334	44.874	22.961	11.283	1.00	0.00
ATOM	4792	1HB	LEU	A	334	43.322	24.533	13.216	1.00	0.00
ATOM	4793	2HB	LEU	A	334	44.527	25.399	12.235	1.00	0.00
ATOM	4794	HG	LEU	A	334	42.146	23.845	11.151	1.00	0.00
ATOM	4795	1HD1	LEU	A	334	41.248	26.106	10.536	1.00	0.00
ATOM	4796	2HD1	LEU	A	334	41.463	25.952	12.296	1.00	0.00
ATOM	4797	3HD1	LEU	A	334	42.650	26.861	11.329	1.00	0.00
ATOM	4798	1HD2	LEU	A	334	42.758	24.864	8.985	1.00	0.00
ATOM	4799	2HD2	LEU	A	334	44.191	25.590	9.752	1.00	0.00
ATOM	4800	3HD2	LEU	A	334	44.042	23.820	9.640	1.00	0.00
ATOM	4801	N	GLN	A	335	46.009	22.276	13.981	1.00	0.00
ATOM	4802	CA	GLN	A	335	47.173	22.226	14.860	1.00	0.00
ATOM	4803	C	GLN	A	335	48.496	22.319	14.104	1.00	0.00
ATOM	4804	O	GLN	A	335	49.431	23.001	14.534	1.00	0.00
ATOM	4805	CB	GLN	A	335	47.151	20.936	15.684	1.00	0.00
ATOM	4806	CG	GLN	A	335	48.295	20.810	16.675	1.00	0.00
ATOM	4807	CD	GLN	A	335	48.213	19.536	17.495	1.00	0.00
ATOM	4808	OE1	GLN	A	335	47.339	18.694	17.273	1.00	0.00
ATOM	4809	NE2	GLN	A	335	49.123	19.390	18.451	1.00	0.00
ATOM	4810	H	GLN	A	335	45.346	21.514	13.999	1.00	0.00
ATOM	4811	HA	GLN	A	335	47.162	23.086	15.530	1.00	0.00
ATOM	4812	1HB	GLN	A	335	46.199	20.917	16.215	1.00	0.00
ATOM	4813	2HB	GLN	A	335	47.186	20.109	14.974	1.00	0.00
ATOM	4814	1HG	GLN	A	335	49.337	20.961	16.395	1.00	0.00
ATOM	4815	2HG	GLN	A	335	47.963	21.642	17.296	1.00	0.00
ATOM	4816	1HE2	GLN	A	335	49.118	18.570	19.025	1.00	0.00
ATOM	4817	2HE2	GLN	A	335	49.813	20.099	18.598	1.00	0.00
ATOM	4818	N	SER	A	336	48.561	21.616	12.979	1.00	0.00
ATOM	4819	CA	SER	A	336	49.742	21.578	12.131	1.00	0.00
ATOM	4820	C	SER	A	336	50.412	22.937	11.878	1.00	0.00
ATOM	4821	O	SER	A	336	51.631	23.004	11.704	1.00	0.00
ATOM	4822	CB	SER	A	336	49.369	20.940	10.807	1.00	0.00
ATOM	4823	OG	SER	A	336	48.938	19.616	10.964	1.00	0.00
ATOM	4824	H	SER	A	336	47.745	21.086	12.709	1.00	0.00
ATOM	4825	HA	SER	A	336	50.518	20.906	12.500	1.00	0.00
ATOM	4826	1HB	SER	A	336	48.567	21.522	10.354	1.00	0.00
ATOM	4827	2HB	SER	A	336	50.241	20.954	10.155	1.00	0.00
ATOM	4828	HG	SER	A	336	48.712	19.250	10.106	1.00	0.00
ATOM	4829	N	LEU	A	337	49.623	24.010	11.857	1.00	0.00
ATOM	4830	CA	LEU	A	337	50.146	25.358	11.609	1.00	0.00
ATOM	4831	C	LEU	A	337	50.938	25.968	12.772	1.00	0.00
ATOM	4832	O	LEU	A	337	51.806	26.816	12.555	1.00	0.00
ATOM	4833	CB	LEU	A	337	48.983	26.288	11.240	1.00	0.00
ATOM	4834	CG	LEU	A	337	48.184	25.873	9.998	1.00	0.00
ATOM	4835	CD1	LEU	A	337	46.986	26.795	9.816	1.00	0.00
ATOM	4836	CD2	LEU	A	337	49.088	25.914	8.775	1.00	0.00
ATOM	4837	H	LEU	A	337	48.633	23.888	12.017	1.00	0.00
ATOM	4838	HA	LEU	A	337	50.861	25.327	10.787	1.00	0.00
ATOM	4839	1HB	LEU	A	337	48.372	26.170	12.134	1.00	0.00
ATOM	4840	2HB	LEU	A	337	49.307	27.325	11.155	1.00	0.00
ATOM	4841	HG	LEU	A	337	47.870	24.839	10.145	1.00	0.00
ATOM	4842	1HD1	LEU	A	337	46.425	26.493	8.931	1.00	0.00
ATOM	4843	2HD1	LEU	A	337	46.342	26.732	10.692	1.00	0.00
ATOM	4844	3HD1	LEU	A	337	47.332	27.820	9.692	1.00	0.00
ATOM	4845	1HD2	LEU	A	337	48.519	25.619	7.893	1.00	0.00
ATOM	4846	2HD2	LEU	A	337	49.470	26.926	8.638	1.00	0.00
ATOM	4847	3HD2	LEU	A	337	49.923	25.227	8.915	1.00	0.00

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ATOM	4848	N	PHE	A	338	50.628	25.547	13.997	1.00	0.00
ATOM	4849	CA	PHE	A	338	51.308	26.063	15.186	1.00	0.00
ATOM	4850	C	PHE	A	338	52.535	25.239	15.518	1.00	0.00
ATOM	4851	O	PHE	A	338	53.383	25.650	16.315	1.00	0.00
ATOM	4852	CB	PHE	A	338	50.341	26.048	16.376	1.00	0.00
ATOM	4853	CG	PHE	A	338	49.023	26.701	16.018	1.00	0.00
ATOM	4854	CD1	PHE	A	338	47.981	25.941	15.495	1.00	0.00
ATOM	4855	CD2	PHE	A	338	48.846	28.064	16.217	1.00	0.00
ATOM	4856	CE1	PHE	A	338	46.771	26.542	15.168	1.00	0.00
ATOM	4857	CE2	PHE	A	338	47.635	28.664	15.893	1.00	0.00
ATOM	4858	CZ	PHE	A	338	46.596	27.905	15.368	1.00	0.00
ATOM	4859	H	PHE	A	338	49.903	24.852	14.107	1.00	0.00
ATOM	4860	HA	PHE	A	338	51.657	27.080	15.001	1.00	0.00
ATOM	4861	1HB	PHE	A	338	50.136	25.022	16.681	1.00	0.00
ATOM	4862	2HB	PHE	A	338	50.770	26.596	17.214	1.00	0.00
ATOM	4863	HD1	PHE	A	338	48.125	24.871	15.346	1.00	0.00
ATOM	4864	HD2	PHE	A	338	49.659	28.664	16.628	1.00	0.00
ATOM	4865	HE1	PHE	A	338	45.960	25.943	14.755	1.00	0.00
ATOM	4866	HE2	PHE	A	338	47.501	29.734	16.051	1.00	0.00
ATOM	4867	HZ	PHE	A	338	45.648	28.377	15.113	1.00	0.00
ATOM	4868	N	ASP	A	339	52.610	24.066	14.904	1.00	0.00
ATOM	4869	CA	ASP	A	339	53.713	23.151	15.106	1.00	0.00
ATOM	4870	C	ASP	A	339	54.867	23.510	14.168	1.00	0.00
ATOM	4871	O	ASP	A	339	55.651	24.407	14.458	1.00	0.00
ATOM	4872	CB	ASP	A	339	53.263	21.706	14.880	1.00	0.00
ATOM	4873	CG	ASP	A	339	52.374	21.144	15.981	1.00	0.00
ATOM	4874	OD1	ASP	A	339	52.284	21.759	17.017	1.00	0.00
ATOM	4875	OD2	ASP	A	339	51.673	20.194	15.725	1.00	0.00
ATOM	4876	H	ASP	A	339	51.866	23.807	14.272	1.00	0.00
ATOM	4877	HA	ASP	A	339	54.087	23.243	16.126	1.00	0.00
ATOM	4878	1HB	ASP	A	339	52.787	21.545	13.912	1.00	0.00
ATOM	4879	2HB	ASP	A	339	54.228	21.199	14.899	1.00	0.00
ATOM	4880	N	SER	A	340	54.964	22.812	13.042	1.00	0.00
ATOM	4881	CA	SER	A	340	56.030	23.067	12.076	1.00	0.00
ATOM	4882	C	SER	A	340	55.480	23.109	10.653	1.00	0.00
ATOM	4883	O	SER	A	340	55.662	22.175	9.870	1.00	0.00
ATOM	4884	CB	SER	A	340	57.109	22.008	12.195	1.00	0.00
ATOM	4885	OG	SER	A	340	58.234	22.314	11.418	1.00	0.00
ATOM	4886	H	SER	A	340	54.287	22.088	12.848	1.00	0.00
ATOM	4887	HA	SER	A	340	56.595	23.976	12.285	1.00	0.00
ATOM	4888	1HB	SER	A	340	57.409	21.934	13.240	1.00	0.00
ATOM	4889	2HB	SER	A	340	56.700	21.054	11.867	1.00	0.00
ATOM	4890	HG	SER	A	340	58.891	21.621	11.522	1.00	0.00
ATOM	4891	N	PRO	A	341	54.788	24.198	10.304	1.00	0.00
ATOM	4892	CA	PRO	A	341	54.222	24.334	8.960	1.00	0.00
ATOM	4893	C	PRO	A	341	55.319	24.666	7.957	1.00	0.00
ATOM	4894	O	PRO	A	341	56.472	24.864	8.333	1.00	0.00
ATOM	4895	CB	PRO	A	341	53.194	25.463	9.089	1.00	0.00
ATOM	4896	CG	PRO	A	341	53.742	26.343	10.160	1.00	0.00
ATOM	4897	CD	PRO	A	341	54.385	25.411	11.152	1.00	0.00
ATOM	4898	HA	PRO	A	341	53.761	23.404	8.596	1.00	0.00
ATOM	4899	1HB	PRO	A	341	53.078	26.012	8.143	1.00	0.00
ATOM	4900	2HB	PRO	A	341	52.201	25.075	9.361	1.00	0.00
ATOM	4901	1HG	PRO	A	341	54.475	27.055	9.754	1.00	0.00
ATOM	4902	2HG	PRO	A	341	52.945	26.936	10.633	1.00	0.00
ATOM	4903	1HD	PRO	A	341	55.273	25.856	11.626	1.00	0.00
ATOM	4904	2HD	PRO	A	341	53.697	25.127	11.963	1.00	0.00
ATOM	4905	N	ASP	A	342	54.960	24.725	6.684	1.00	0.00
ATOM	4906	CA	ASP	A	342	55.924	25.060	5.651	1.00	0.00
ATOM	4907	C	ASP	A	342	55.443	26.303	4.912	1.00	0.00
ATOM	4908	O	ASP	A	342	54.498	26.240	4.124	1.00	0.00
ATOM	4909	CB	ASP	A	342	56.119	23.893	4.680	1.00	0.00
ATOM	4910	CG	ASP	A	342	57.160	24.142	3.597	1.00	0.00

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ATOM	4911	OD1	ASP	A	342	57.657	25.241	3.520	1.00	0.00
ATOM	4912	OD2	ASP	A	342	57.563	23.199	2.960	1.00	0.00
ATOM	4913	H	ASP	A	342	54.003	24.535	6.421	1.00	0.00
ATOM	4914	HA	ASP	A	342	56.887	25.292	6.106	1.00	0.00
ATOM	4915	1HB	ASP	A	342	56.332	22.946	5.176	1.00	0.00
ATOM	4916	2HB	ASP	A	342	55.127	23.852	4.228	1.00	0.00
ATOM	4917	N	PHE	A	343	56.091	27.433	5.172	1.00	0.00
ATOM	4918	CA	PHE	A	343	55.718	28.685	4.526	1.00	0.00
ATOM	4919	C	PHE	A	343	56.872	29.220	3.698	1.00	0.00
ATOM	4920	O	PHE	A	343	57.002	30.428	3.507	1.00	0.00
ATOM	4921	CB	PHE	A	343	55.287	29.722	5.564	1.00	0.00
ATOM	4922	CG	PHE	A	343	53.951	29.435	6.190	1.00	0.00
ATOM	4923	CD1	PHE	A	343	53.845	29.187	7.550	1.00	0.00
ATOM	4924	CD2	PHE	A	343	52.799	29.411	5.419	1.00	0.00
ATOM	4925	CE1	PHE	A	343	52.617	28.922	8.127	1.00	0.00
ATOM	4926	CE2	PHE	A	343	51.570	29.147	5.993	1.00	0.00
ATOM	4927	CZ	PHE	A	343	51.480	28.902	7.348	1.00	0.00
ATOM	4928	H	PHE	A	343	56.858	27.428	5.830	1.00	0.00
ATOM	4929	HA	PHE	A	343	54.886	28.515	3.841	1.00	0.00
ATOM	4930	1HB	PHE	A	343	56.010	29.762	6.378	1.00	0.00
ATOM	4931	2HB	PHE	A	343	55.208	30.705	5.101	1.00	0.00
ATOM	4932	HD1	PHE	A	343	54.745	29.203	8.166	1.00	0.00
ATOM	4933	HD2	PHE	A	343	52.870	29.604	4.348	1.00	0.00
ATOM	4934	HE1	PHE	A	343	52.549	28.729	9.197	1.00	0.00
ATOM	4935	HE2	PHE	A	343	50.672	29.132	5.376	1.00	0.00
ATOM	4936	HZ	PHE	A	343	50.512	28.693	7.801	1.00	0.00
ATOM	4937	N	SER	A	344	57.706	28.312	3.204	1.00	0.00
ATOM	4938	CA	SER	A	344	58.867	28.688	2.407	1.00	0.00
ATOM	4939	C	SER	A	344	58.552	29.643	1.251	1.00	0.00
ATOM	4940	O	SER	A	344	59.459	30.230	0.655	1.00	0.00
ATOM	4941	CB	SER	A	344	59.529	27.434	1.871	1.00	0.00
ATOM	4942	OG	SER	A	344	58.698	26.740	0.980	1.00	0.00
ATOM	4943	H	SER	A	344	57.530	27.334	3.386	1.00	0.00
ATOM	4944	HA	SER	A	344	59.670	29.133	2.996	1.00	0.00
ATOM	4945	1HB	SER	A	344	60.445	27.717	1.353	1.00	0.00
ATOM	4946	2HB	SER	A	344	59.773	26.782	2.709	1.00	0.00
ATOM	4947	HG	SER	A	344	57.890	26.483	1.431	1.00	0.00
ATOM	4948	N	LYS	A	345	57.272	29.809	0.939	1.00	0.00
ATOM	4949	CA	LYS	A	345	56.879	30.727	-0.124	1.00	0.00
ATOM	4950	C	LYS	A	345	56.805	32.158	0.406	1.00	0.00
ATOM	4951	O	LYS	A	345	56.677	33.109	-0.362	1.00	0.00
ATOM	4952	CB	LYS	A	345	55.535	30.312	-0.725	1.00	0.00
ATOM	4953	CG	LYS	A	345	55.599	29.080	-1.618	1.00	0.00
ATOM	4954	CD	LYS	A	345	54.225	28.721	-2.164	1.00	0.00
ATOM	4955	CE	LYS	A	345	54.216	27.324	-2.767	1.00	0.00
ATOM	4956	NZ	LYS	A	345	52.833	26.810	-2.962	1.00	0.00
ATOM	4957	H	LYS	A	345	56.557	29.299	1.438	1.00	0.00
ATOM	4958	HA	LYS	A	345	57.630	30.719	-0.915	1.00	0.00
ATOM	4959	1HB	LYS	A	345	54.858	30.122	0.107	1.00	0.00
ATOM	4960	2HB	LYS	A	345	55.168	31.160	-1.304	1.00	0.00
ATOM	4961	1HG	LYS	A	345	56.277	29.287	-2.447	1.00	0.00
ATOM	4962	2HG	LYS	A	345	55.987	28.247	-1.032	1.00	0.00
ATOM	4963	1HD	LYS	A	345	53.503	28.769	-1.347	1.00	0.00
ATOM	4964	2HD	LYS	A	345	53.954	29.448	-2.930	1.00	0.00
ATOM	4965	1HE	LYS	A	345	54.727	27.363	-3.728	1.00	0.00
ATOM	4966	2HE	LYS	A	345	54.759	26.659	-2.096	1.00	0.00
ATOM	4967	1HZ	LYS	A	345	52.872	25.884	-3.363	1.00	0.00
ATOM	4968	2HZ	LYS	A	345	52.359	26.772	-2.071	1.00	0.00
ATOM	4969	3HZ	LYS	A	345	52.331	27.426	-3.585	1.00	0.00
ATOM	4970	N	ILE	A	346	56.876	32.298	1.724	1.00	0.00
ATOM	4971	CA	ILE	A	346	56.831	33.603	2.374	1.00	0.00
ATOM	4972	C	ILE	A	346	58.243	34.054	2.725	1.00	0.00
ATOM	4973	O	ILE	A	346	58.617	35.211	2.524	1.00	0.00

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ATOM	4974	CB	ILE	A	346	56.025	33.583	3.680	1.00	0.00
ATOM	4975	CG1	ILE	A	346	54.551	33.311	3.439	1.00	0.00
ATOM	4976	CG2	ILE	A	346	56.194	34.888	4.462	1.00	0.00
ATOM	4977	CD1	ILE	A	346	53.758	33.258	4.741	1.00	0.00
ATOM	4978	H	ILE	A	346	56.964	31.468	2.293	1.00	0.00
ATOM	4979	HA	ILE	A	346	56.443	34.359	1.692	1.00	0.00
ATOM	4980	HB	ILE	A	346	56.368	32.753	4.297	1.00	0.00
ATOM	4981	1HG1	ILE	A	346	54.175	34.108	2.798	1.00	0.00
ATOM	4982	2HG1	ILE	A	346	54.479	32.359	2.913	1.00	0.00
ATOM	4983	1HG2	ILE	A	346	55.610	34.840	5.381	1.00	0.00
ATOM	4984	2HG2	ILE	A	346	57.245	35.031	4.708	1.00	0.00
ATOM	4985	3HG2	ILE	A	346	55.847	35.724	3.855	1.00	0.00
ATOM	4986	1HD1	ILE	A	346	52.709	33.061	4.521	1.00	0.00
ATOM	4987	2HD1	ILE	A	346	54.151	32.463	5.375	1.00	0.00
ATOM	4988	3HD1	ILE	A	346	53.845	34.211	5.260	1.00	0.00
ATOM	4989	N	THR	A	347	59.021	33.116	3.254	1.00	0.00
ATOM	4990	CA	THR	A	347	60.384	33.385	3.678	1.00	0.00
ATOM	4991	C	THR	A	347	61.179	32.079	3.796	1.00	0.00
ATOM	4992	O	THR	A	347	60.604	30.992	3.915	1.00	0.00
ATOM	4993	CB	THR	A	347	60.419	34.130	5.025	1.00	0.00
ATOM	4994	OG1	THR	A	347	61.771	34.488	5.341	1.00	0.00
ATOM	4995	CG2	THR	A	347	59.858	33.254	6.134	1.00	0.00
ATOM	4996	H	THR	A	347	58.647	32.184	3.363	1.00	0.00
ATOM	4997	HA	THR	A	347	60.890	33.994	2.928	1.00	0.00
ATOM	4998	HB	THR	A	347	59.822	35.038	4.943	1.00	0.00
ATOM	4999	HG1	THR	A	347	62.120	35.058	4.651	1.00	0.00
ATOM	5000	1HG2	THR	A	347	59.890	33.798	7.078	1.00	0.00
ATOM	5001	2HG2	THR	A	347	58.826	32.990	5.902	1.00	0.00
ATOM	5002	3HG2	THR	A	347	60.455	32.347	6.217	1.00	0.00
ATOM	5003	N	GLY	A	348	62.502	32.188	3.755	1.00	0.00
ATOM	5004	CA	GLY	A	348	63.332	31.007	3.869	1.00	0.00
ATOM	5005	C	GLY	A	348	63.387	30.528	5.306	1.00	0.00
ATOM	5006	O	GLY	A	348	63.482	29.331	5.575	1.00	0.00
ATOM	5007	H	GLY	A	348	62.943	33.090	3.645	1.00	0.00
ATOM	5008	1HA	GLY	A	348	62.916	30.218	3.242	1.00	0.00
ATOM	5009	2HA	GLY	A	348	64.340	31.246	3.530	1.00	0.00
ATOM	5010	N	LYS	A	349	63.330	31.469	6.238	1.00	0.00
ATOM	5011	CA	LYS	A	349	63.378	31.131	7.652	1.00	0.00
ATOM	5012	C	LYS	A	349	62.116	30.379	8.074	1.00	0.00
ATOM	5013	O	LYS	A	349	61.031	30.619	7.540	1.00	0.00
ATOM	5014	CB	LYS	A	349	63.553	32.393	8.498	1.00	0.00
ATOM	5015	CG	LYS	A	349	64.900	33.083	8.328	1.00	0.00
ATOM	5016	CD	LYS	A	349	65.012	34.307	9.225	1.00	0.00
ATOM	5017	CE	LYS	A	349	66.348	35.010	9.040	1.00	0.00
ATOM	5018	NZ	LYS	A	349	66.478	36.201	9.922	1.00	0.00
ATOM	5019	H	LYS	A	349	63.252	32.439	5.966	1.00	0.00
ATOM	5020	HA	LYS	A	349	64.219	30.464	7.844	1.00	0.00
ATOM	5021	1HB	LYS	A	349	62.755	33.080	8.215	1.00	0.00
ATOM	5022	2HB	LYS	A	349	63.425	32.100	9.541	1.00	0.00
ATOM	5023	1HG	LYS	A	349	65.687	32.373	8.581	1.00	0.00
ATOM	5024	2HG	LYS	A	349	65.005	33.385	7.287	1.00	0.00
ATOM	5025	1HD	LYS	A	349	64.201	34.994	8.978	1.00	0.00
ATOM	5026	2HD	LYS	A	349	64.912	33.987	10.263	1.00	0.00
ATOM	5027	1HE	LYS	A	349	67.142	34.300	9.269	1.00	0.00
ATOM	5028	2HE	LYS	A	349	66.429	35.319	7.998	1.00	0.00
ATOM	5029	1HZ	LYS	A	349	67.376	36.638	9.768	1.00	0.00
ATOM	5030	2HZ	LYS	A	349	65.742	36.860	9.709	1.00	0.00
ATOM	5031	3HZ	LYS	A	349	66.404	35.915	10.887	1.00	0.00
ATOM	5032	N	PRO	A	350	62.243	29.439	9.025	1.00	0.00
ATOM	5033	CA	PRO	A	350	61.053	28.696	9.461	1.00	0.00
ATOM	5034	C	PRO	A	350	60.187	29.563	10.365	1.00	0.00
ATOM	5035	O	PRO	A	350	60.634	30.022	11.421	1.00	0.00
ATOM	5036	CB	PRO	A	350	61.611	27.474	10.196	1.00	0.00

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ATOM	5037	CG	PRO	A	350	62.936	27.923	10.712	1.00	0.00
ATOM	5038	CD	PRO	A	350	63.456	28.892	9.684	1.00	0.00
ATOM	5039	HA	PRO	A	350	60.403	28.404	8.623	1.00	0.00
ATOM	5040	1HB	PRO	A	350	60.950	27.160	11.018	1.00	0.00
ATOM	5041	2HB	PRO	A	350	61.718	26.611	9.522	1.00	0.00
ATOM	5042	1HG	PRO	A	350	62.837	28.405	11.696	1.00	0.00
ATOM	5043	2HG	PRO	A	350	63.623	27.073	10.837	1.00	0.00
ATOM	5044	1HD	PRO	A	350	64.030	29.713	10.139	1.00	0.00
ATOM	5045	2HD	PRO	A	350	64.116	28.406	8.950	1.00	0.00
ATOM	5046	N	ILE	A	351	58.955	29.801	9.940	1.00	0.00
ATOM	5047	CA	ILE	A	351	58.030	30.595	10.727	1.00	0.00
ATOM	5048	C	ILE	A	351	56.803	29.730	10.937	1.00	0.00
ATOM	5049	O	ILE	A	351	56.507	28.857	10.121	1.00	0.00
ATOM	5050	CB	ILE	A	351	57.643	31.918	10.042	1.00	0.00
ATOM	5051	CG1	ILE	A	351	57.114	31.654	8.630	1.00	0.00
ATOM	5052	CG2	ILE	A	351	58.833	32.864	10.000	1.00	0.00
ATOM	5053	CD1	ILE	A	351	56.527	32.875	7.959	1.00	0.00
ATOM	5054	H	ILE	A	351	58.650	29.425	9.053	1.00	0.00
ATOM	5055	HA	ILE	A	351	58.453	30.819	11.705	1.00	0.00
ATOM	5056	HB	ILE	A	351	56.829	32.382	10.600	1.00	0.00
ATOM	5057	1HG1	ILE	A	351	57.947	31.279	8.037	1.00	0.00
ATOM	5058	2HG1	ILE	A	351	56.349	30.881	8.710	1.00	0.00
ATOM	5059	1HG2	ILE	A	351	58.542	33.794	9.513	1.00	0.00
ATOM	5060	2HG2	ILE	A	351	59.165	33.076	11.016	1.00	0.00
ATOM	5061	3HG2	ILE	A	351	59.646	32.401	9.442	1.00	0.00
ATOM	5062	1HD1	ILE	A	351	56.174	32.609	6.963	1.00	0.00
ATOM	5063	2HD1	ILE	A	351	55.692	33.251	8.551	1.00	0.00
ATOM	5064	3HD1	ILE	A	351	57.290	33.648	7.877	1.00	0.00
ATOM	5065	N	LYS	A	352	56.096	29.948	12.035	1.00	0.00
ATOM	5066	CA	LYS	A	352	54.907	29.159	12.310	1.00	0.00
ATOM	5067	C	LYS	A	352	53.788	30.044	12.819	1.00	0.00
ATOM	5068	O	LYS	A	352	54.029	31.130	13.333	1.00	0.00
ATOM	5069	CB	LYS	A	352	55.212	28.056	13.325	1.00	0.00
ATOM	5070	CG	LYS	A	352	55.680	28.562	14.682	1.00	0.00
ATOM	5071	CD	LYS	A	352	55.990	27.409	15.626	1.00	0.00
ATOM	5072	CE	LYS	A	352	56.461	27.914	16.982	1.00	0.00
ATOM	5073	NZ	LYS	A	352	56.703	26.799	17.937	1.00	0.00
ATOM	5074	H	LYS	A	352	56.375	30.663	12.692	1.00	0.00
ATOM	5075	HA	LYS	A	352	54.552	28.694	11.390	1.00	0.00
ATOM	5076	1HB	LYS	A	352	54.297	27.476	13.450	1.00	0.00
ATOM	5077	2HB	LYS	A	352	55.985	27.423	12.887	1.00	0.00
ATOM	5078	1HG	LYS	A	352	56.578	29.164	14.536	1.00	0.00
ATOM	5079	2HG	LYS	A	352	54.894	29.181	15.112	1.00	0.00
ATOM	5080	1HD	LYS	A	352	55.086	26.812	15.753	1.00	0.00
ATOM	5081	2HD	LYS	A	352	56.771	26.794	15.178	1.00	0.00
ATOM	5082	1HE	LYS	A	352	57.383	28.474	16.837	1.00	0.00
ATOM	5083	2HE	LYS	A	352	55.694	28.576	17.384	1.00	0.00
ATOM	5084	1HZ	LYS	A	352	57.012	27.175	18.822	1.00	0.00
ATOM	5085	2HZ	LYS	A	352	55.847	26.279	18.073	1.00	0.00
ATOM	5086	3HZ	LYS	A	352	57.414	26.185	17.565	1.00	0.00
ATOM	5087	N	LEU	A	353	52.557	29.579	12.665	1.00	0.00
ATOM	5088	CA	LEU	A	353	51.419	30.341	13.141	1.00	0.00
ATOM	5089	C	LEU	A	353	51.523	30.365	14.657	1.00	0.00
ATOM	5090	O	LEU	A	353	51.483	29.324	15.313	1.00	0.00
ATOM	5091	CB	LEU	A	353	50.094	29.724	12.675	1.00	0.00
ATOM	5092	CG	LEU	A	353	48.836	30.511	13.063	1.00	0.00
ATOM	5093	CD1	LEU	A	353	48.932	31.939	12.542	1.00	0.00
ATOM	5094	CD2	LEU	A	353	47.606	29.814	12.500	1.00	0.00
ATOM	5095	H	LEU	A	353	52.399	28.689	12.214	1.00	0.00
ATOM	5096	HA	LEU	A	353	51.475	31.359	12.757	1.00	0.00
ATOM	5097	1HB	LEU	A	353	50.247	29.770	11.598	1.00	0.00
ATOM	5098	2HB	LEU	A	353	50.003	28.683	12.984	1.00	0.00
ATOM	5099	HG	LEU	A	353	48.763	30.490	14.150	1.00	0.00

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ATOM	5100	1HD1	LEU	A	353	48.034	32.490	12.822	1.00	0.00
ATOM	5101	2HD1	LEU	A	353	49.805	32.426	12.976	1.00	0.00
ATOM	5102	3HD1	LEU	A	353	49.024	31.925	11.457	1.00	0.00
ATOM	5103	1HD2	LEU	A	353	46.712	30.373	12.777	1.00	0.00
ATOM	5104	2HD2	LEU	A	353	47.681	29.763	11.413	1.00	0.00
ATOM	5105	3HD2	LEU	A	353	47.542	28.804	12.907	1.00	0.00
ATOM	5106	N	THR	A	354	51.665	31.559	15.216	1.00	0.00
ATOM	5107	CA	THR	A	354	51.791	31.683	16.656	1.00	0.00
ATOM	5108	C	THR	A	354	50.492	32.083	17.360	1.00	0.00
ATOM	5109	O	THR	A	354	50.149	31.503	18.387	1.00	0.00
ATOM	5110	CB	THR	A	354	52.881	32.709	17.016	1.00	0.00
ATOM	5111	OG1	THR	A	354	54.143	32.274	16.492	1.00	0.00
ATOM	5112	CG2	THR	A	354	52.990	32.864	18.526	1.00	0.00
ATOM	5113	H	THR	A	354	51.687	32.393	14.647	1.00	0.00
ATOM	5114	HA	THR	A	354	52.051	30.717	17.088	1.00	0.00
ATOM	5115	HB	THR	A	354	52.625	33.670	16.571	1.00	0.00
ATOM	5116	HG1	THR	A	354	54.518	31.609	17.074	1.00	0.00
ATOM	5117	1HG2	THR	A	354	53.766	33.593	18.760	1.00	0.00
ATOM	5118	2HG2	THR	A	354	52.036	33.205	18.926	1.00	0.00
ATOM	5119	3HG2	THR	A	354	53.248	31.904	18.971	1.00	0.00
ATOM	5120	N	GLN	A	355	49.775	33.066	16.821	1.00	0.00
ATOM	5121	CA	GLN	A	355	48.499	33.489	17.409	1.00	0.00
ATOM	5122	C	GLN	A	355	47.556	34.163	16.424	1.00	0.00
ATOM	5123	O	GLN	A	355	47.987	34.730	15.418	1.00	0.00
ATOM	5124	CB	GLN	A	355	48.756	34.443	18.579	1.00	0.00
ATOM	5125	CG	GLN	A	355	47.497	34.917	19.283	1.00	0.00
ATOM	5126	CD	GLN	A	355	47.783	35.485	20.661	1.00	0.00
ATOM	5127	OE1	GLN	A	355	48.076	34.745	21.604	1.00	0.00
ATOM	5128	NE2	GLN	A	355	47.696	36.804	20.786	1.00	0.00
ATOM	5129	H	GLN	A	355	50.113	33.532	15.991	1.00	0.00
ATOM	5130	HA	GLN	A	355	47.953	32.615	17.764	1.00	0.00
ATOM	5131	1HB	GLN	A	355	49.396	33.912	19.283	1.00	0.00
ATOM	5132	2HB	GLN	A	355	49.295	35.299	18.173	1.00	0.00
ATOM	5133	1HG	GLN	A	355	46.758	35.559	18.804	1.00	0.00
ATOM	5134	2HG	GLN	A	355	47.082	33.915	19.403	1.00	0.00
ATOM	5135	1HE2	GLN	A	355	47.874	37.236	21.671	1.00	0.00
ATOM	5136	2HE2	GLN	A	355	47.453	37.367	19.995	1.00	0.00
ATOM	5137	N	VAL	A	356	46.264	34.083	16.732	1.00	0.00
ATOM	5138	CA	VAL	A	356	45.210	34.657	15.910	1.00	0.00
ATOM	5139	C	VAL	A	356	44.285	35.476	16.804	1.00	0.00
ATOM	5140	O	VAL	A	356	43.612	34.924	17.667	1.00	0.00
ATOM	5141	CB	VAL	A	356	44.399	33.578	15.169	1.00	0.00
ATOM	5142	CG1	VAL	A	356	43.296	34.218	14.338	1.00	0.00
ATOM	5143	CG2	VAL	A	356	45.309	32.739	14.286	1.00	0.00
ATOM	5144	H	VAL	A	356	46.016	33.597	17.582	1.00	0.00
ATOM	5145	HA	VAL	A	356	45.616	35.348	15.170	1.00	0.00
ATOM	5146	HB	VAL	A	356	43.957	32.902	15.901	1.00	0.00
ATOM	5147	1HG1	VAL	A	356	42.732	33.441	13.821	1.00	0.00
ATOM	5148	2HG1	VAL	A	356	42.626	34.777	14.992	1.00	0.00
ATOM	5149	3HG1	VAL	A	356	43.737	34.893	13.606	1.00	0.00
ATOM	5150	1HG2	VAL	A	356	44.720	31.981	13.770	1.00	0.00
ATOM	5151	2HG2	VAL	A	356	45.797	33.382	13.552	1.00	0.00
ATOM	5152	3HG2	VAL	A	356	46.066	32.252	14.901	1.00	0.00
ATOM	5153	N	GLU	A	357	44.249	36.790	16.598	1.00	0.00
ATOM	5154	CA	GLU	A	357	43.406	37.654	17.419	1.00	0.00
ATOM	5155	C	GLU	A	357	42.182	38.188	16.677	1.00	0.00
ATOM	5156	O	GLU	A	357	42.236	38.490	15.483	1.00	0.00
ATOM	5157	CB	GLU	A	357	44.231	38.825	17.957	1.00	0.00
ATOM	5158	CG	GLU	A	357	45.466	38.414	18.746	1.00	0.00
ATOM	5159	CD	GLU	A	357	46.359	39.593	19.017	1.00	0.00
ATOM	5160	OE1	GLU	A	357	46.051	40.665	18.555	1.00	0.00
ATOM	5161	OE2	GLU	A	357	47.286	39.448	19.779	1.00	0.00
ATOM	5162	H	GLU	A	357	44.810	37.202	15.866	1.00	0.00

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ATOM	5163	HA	GLU	A	357	43.004	37.088	18.260	1.00	0.00
ATOM	5164	1HB	GLU	A	357	44.533	39.423	17.097	1.00	0.00
ATOM	5165	2HB	GLU	A	357	43.572	39.413	18.596	1.00	0.00
ATOM	5166	1HG	GLU	A	357	45.234	37.912	19.685	1.00	0.00
ATOM	5167	2HG	GLU	A	357	45.976	37.719	18.080	1.00	0.00
ATOM	5168	N	HIS	A	358	41.080	38.317	17.404	1.00	0.00
ATOM	5169	CA	HIS	A	358	39.835	38.790	16.818	1.00	0.00
ATOM	5170	C	HIS	A	358	39.229	39.946	17.613	1.00	0.00
ATOM	5171	O	HIS	A	358	39.120	39.898	18.836	1.00	0.00
ATOM	5172	CB	HIS	A	358	38.825	37.642	16.716	1.00	0.00
ATOM	5173	CG	HIS	A	358	37.514	38.046	16.117	1.00	0.00
ATOM	5174	ND1	HIS	A	358	37.410	38.599	14.858	1.00	0.00
ATOM	5175	CD2	HIS	A	358	36.253	37.979	16.604	1.00	0.00
ATOM	5176	CE1	HIS	A	358	36.140	38.853	14.596	1.00	0.00
ATOM	5177	NE2	HIS	A	358	35.418	38.487	15.639	1.00	0.00
ATOM	5178	H	HIS	A	358	41.104	38.082	18.386	1.00	0.00
ATOM	5179	HA	HIS	A	358	40.026	39.182	15.819	1.00	0.00
ATOM	5180	1HB	HIS	A	358	39.223	36.846	16.085	1.00	0.00
ATOM	5181	2HB	HIS	A	358	38.607	37.245	17.707	1.00	0.00
ATOM	5182	HD1	HIS	A	358	38.155	38.716	14.200	1.00	0.00
ATOM	5183	HD2	HIS	A	358	35.842	37.621	17.548	1.00	0.00
ATOM	5184	HE1	HIS	A	358	35.847	39.294	13.643	1.00	0.00
ATOM	5185	N	ARG	A	359	38.849	40.994	16.900	1.00	0.00
ATOM	5186	CA	ARG	A	359	38.234	42.157	17.517	1.00	0.00
ATOM	5187	C	ARG	A	359	36.950	42.433	16.745	1.00	0.00
ATOM	5188	O	ARG	A	359	36.982	42.674	15.535	1.00	0.00
ATOM	5189	CB	ARG	A	359	39.154	43.367	17.582	1.00	0.00
ATOM	5190	CG	ARG	A	359	40.402	43.177	18.430	1.00	0.00
ATOM	5191	CD	ARG	A	359	41.527	44.079	18.074	1.00	0.00
ATOM	5192	NE	ARG	A	359	42.692	43.959	18.937	1.00	0.00
ATOM	5193	CZ	ARG	A	359	43.670	43.046	18.778	1.00	0.00
ATOM	5194	NH1	ARG	A	359	43.612	42.151	17.818	1.00	0.00
ATOM	5195	NH2	ARG	A	359	44.681	43.060	19.630	1.00	0.00
ATOM	5196	H	ARG	A	359	38.991	40.985	15.900	1.00	0.00
ATOM	5197	HA	ARG	A	359	37.991	41.938	18.557	1.00	0.00
ATOM	5198	1HB	ARG	A	359	39.447	43.599	16.559	1.00	0.00
ATOM	5199	2HB	ARG	A	359	38.568	44.191	17.987	1.00	0.00
ATOM	5200	1HG	ARG	A	359	40.143	43.358	19.473	1.00	0.00
ATOM	5201	2HG	ARG	A	359	40.745	42.148	18.314	1.00	0.00
ATOM	5202	1HD	ARG	A	359	41.851	43.857	17.057	1.00	0.00
ATOM	5203	2HD	ARG	A	359	41.185	45.111	18.130	1.00	0.00
ATOM	5204	HE	ARG	A	359	42.951	44.502	19.749	1.00	0.00
ATOM	5205	1HH1	ARG	A	359	42.824	42.142	17.186	1.00	0.00
ATOM	5206	2HH1	ARG	A	359	44.356	41.475	17.716	1.00	0.00
ATOM	5207	1HH2	ARG	A	359	44.701	43.745	20.374	1.00	0.00
ATOM	5208	2HH2	ARG	A	359	45.427	42.388	19.535	1.00	0.00
ATOM	5209	N	ALA	A	360	35.820	42.378	17.436	1.00	0.00
ATOM	5210	CA	ALA	A	360	34.552	42.618	16.782	1.00	0.00
ATOM	5211	C	ALA	A	360	33.689	43.574	17.584	1.00	0.00
ATOM	5212	O	ALA	A	360	33.793	43.648	18.804	1.00	0.00
ATOM	5213	CB	ALA	A	360	33.793	41.304	16.590	1.00	0.00
ATOM	5214	H	ALA	A	360	35.832	42.168	18.424	1.00	0.00
ATOM	5215	HA	ALA	A	360	34.740	43.087	15.816	1.00	0.00
ATOM	5216	1HB	ALA	A	360	32.842	41.503	16.097	1.00	0.00
ATOM	5217	2HB	ALA	A	360	34.386	40.627	15.974	1.00	0.00
ATOM	5218	3HB	ALA	A	360	33.609	40.845	17.560	1.00	0.00
ATOM	5219	N	GLY	A	361	32.843	44.316	16.882	1.00	0.00
ATOM	5220	CA	GLY	A	361	31.962	45.257	17.541	1.00	0.00
ATOM	5221	C	GLY	A	361	30.632	45.208	16.838	1.00	0.00
ATOM	5222	O	GLY	A	361	30.552	45.503	15.644	1.00	0.00
ATOM	5223	H	GLY	A	361	32.807	44.230	15.876	1.00	0.00
ATOM	5224	1HA	GLY	A	361	31.856	44.973	18.588	1.00	0.00
ATOM	5225	2HA	GLY	A	361	32.395	46.254	17.479	1.00	0.00

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ATOM	5226	N	PHE	A	362	29.586	44.835	17.566	1.00	0.00
ATOM	5227	CA	PHE	A	362	28.258	44.730	16.970	1.00	0.00
ATOM	5228	C	PHE	A	362	27.217	45.552	17.727	1.00	0.00
ATOM	5229	O	PHE	A	362	27.222	45.588	18.962	1.00	0.00
ATOM	5230	CB	PHE	A	362	27.822	43.265	16.912	1.00	0.00
ATOM	5231	CG	PHE	A	362	26.521	43.047	16.193	1.00	0.00
ATOM	5232	CD1	PHE	A	362	26.472	43.039	14.807	1.00	0.00
ATOM	5233	CD2	PHE	A	362	25.345	42.851	16.900	1.00	0.00
ATOM	5234	CE1	PHE	A	362	25.275	42.839	14.144	1.00	0.00
ATOM	5235	CE2	PHE	A	362	24.148	42.650	16.241	1.00	0.00
ATOM	5236	CZ	PHE	A	362	24.114	42.645	14.861	1.00	0.00
ATOM	5237	H	PHE	A	362	29.704	44.620	18.546	1.00	0.00
ATOM	5238	HA	PHE	A	362	28.275	45.132	15.956	1.00	0.00
ATOM	5239	1HB	PHE	A	362	28.571	42.671	16.389	1.00	0.00
ATOM	5240	2HB	PHE	A	362	27.690	42.874	17.920	1.00	0.00
ATOM	5241	HD1	PHE	A	362	27.390	43.192	14.240	1.00	0.00
ATOM	5242	HD2	PHE	A	362	25.372	42.856	17.991	1.00	0.00
ATOM	5243	HE1	PHE	A	362	25.250	42.836	13.055	1.00	0.00
ATOM	5244	HE2	PHE	A	362	23.231	42.497	16.809	1.00	0.00
ATOM	5245	HZ	PHE	A	362	23.170	42.488	14.339	1.00	0.00
ATOM	5246	N	GLU	A	363	26.325	46.209	16.985	1.00	0.00
ATOM	5247	CA	GLU	A	363	25.291	47.040	17.602	1.00	0.00
ATOM	5248	C	GLU	A	363	24.043	47.304	16.758	1.00	0.00
ATOM	5249	O	GLU	A	363	24.113	47.373	15.526	1.00	0.00
ATOM	5250	CB	GLU	A	363	25.906	48.381	18.008	1.00	0.00
ATOM	5251	CG	GLU	A	363	24.943	49.328	18.710	1.00	0.00
ATOM	5252	CD	GLU	A	363	25.623	50.612	19.096	1.00	0.00
ATOM	5253	OE1	GLU	A	363	26.774	50.773	18.771	1.00	0.00
ATOM	5254	OE2	GLU	A	363	24.960	51.478	19.617	1.00	0.00
ATOM	5255	H	GLU	A	363	26.360	46.134	15.978	1.00	0.00
ATOM	5256	HA	GLU	A	363	24.895	46.541	18.487	1.00	0.00
ATOM	5257	1HB	GLU	A	363	26.744	48.160	18.669	1.00	0.00
ATOM	5258	2HB	GLU	A	363	26.276	48.851	17.096	1.00	0.00
ATOM	5259	1HG	GLU	A	363	24.051	49.552	18.125	1.00	0.00
ATOM	5260	2HG	GLU	A	363	24.659	48.783	19.609	1.00	0.00
ATOM	5261	N	TRP	A	364	22.906	47.456	17.439	1.00	0.00
ATOM	5262	CA	TRP	A	364	21.638	47.772	16.786	1.00	0.00
ATOM	5263	C	TRP	A	364	20.669	48.477	17.714	1.00	0.00
ATOM	5264	O	TRP	A	364	20.765	48.376	18.938	1.00	0.00
ATOM	5265	CB	TRP	A	364	20.976	46.523	16.143	1.00	0.00
ATOM	5266	CG	TRP	A	364	20.359	45.505	17.100	1.00	0.00
ATOM	5267	CD1	TRP	A	364	19.524	45.727	18.209	1.00	0.00
ATOM	5268	CD2	TRP	A	364	20.455	44.062	17.034	1.00	0.00
ATOM	5269	NE1	TRP	A	364	19.129	44.570	18.795	1.00	0.00
ATOM	5270	CE2	TRP	A	364	19.688	43.516	18.090	1.00	0.00
ATOM	5271	CE3	TRP	A	364	21.112	43.202	16.168	1.00	0.00
ATOM	5272	CZ2	TRP	A	364	19.608	42.139	18.255	1.00	0.00
ATOM	5273	CZ3	TRP	A	364	21.023	41.824	16.341	1.00	0.00
ATOM	5274	CH2	TRP	A	364	20.276	41.291	17.382	1.00	0.00
ATOM	5275	H	TRP	A	364	22.929	47.347	18.443	1.00	0.00
ATOM	5276	HA	TRP	A	364	21.810	48.458	15.957	1.00	0.00
ATOM	5277	1HB	TRP	A	364	20.159	46.824	15.487	1.00	0.00
ATOM	5278	2HB	TRP	A	364	21.713	45.961	15.570	1.00	0.00
ATOM	5279	HD1	TRP	A	364	19.301	46.763	18.458	1.00	0.00
ATOM	5280	HE1	TRP	A	364	18.531	44.495	19.606	1.00	0.00
ATOM	5281	HE3	TRP	A	364	21.707	43.580	15.337	1.00	0.00
ATOM	5282	HZ2	TRP	A	364	19.013	41.741	19.077	1.00	0.00
ATOM	5283	HZ3	TRP	A	364	21.551	41.173	15.644	1.00	0.00
ATOM	5284	HH2	TRP	A	364	20.207	40.212	17.525	1.00	0.00
ATOM	5285	N	ASN	A	365	19.728	49.194	17.113	1.00	0.00
ATOM	5286	CA	ASN	A	365	18.725	49.926	17.863	1.00	0.00
ATOM	5287	C	ASN	A	365	17.511	50.249	17.009	1.00	0.00
ATOM	5288	O	ASN	A	365	17.284	49.619	15.979	1.00	0.00

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ATOM	5289	CB	ASN	A	365	19.301	51.199	18.456	1.00	0.00
ATOM	5290	CG	ASN	A	365	19.760	52.193	17.425	1.00	0.00
ATOM	5291	OD1	ASN	A	365	19.462	52.063	16.232	1.00	0.00
ATOM	5292	ND2	ASN	A	365	20.551	53.138	17.865	1.00	0.00
ATOM	5293	H	ASN	A	365	19.711	49.230	16.104	1.00	0.00
ATOM	5294	HA	ASN	A	365	18.360	49.313	18.689	1.00	0.00
ATOM	5295	1HB	ASN	A	365	18.781	51.728	19.255	1.00	0.00
ATOM	5296	2HB	ASN	A	365	20.173	50.689	18.865	1.00	0.00
ATOM	5297	1HD2	ASN	A	365	20.896	53.834	17.235	1.00	0.00
ATOM	5298	2HD2	ASN	A	365	20.811	53.163	18.830	1.00	0.00
ATOM	5299	N	GLU	A	366	16.739	51.233	17.458	1.00	0.00
ATOM	5300	CA	GLU	A	366	15.515	51.662	16.786	1.00	0.00
ATOM	5301	C	GLU	A	366	15.671	52.171	15.359	1.00	0.00
ATOM	5302	O	GLU	A	366	14.770	52.007	14.544	1.00	0.00
ATOM	5303	CB	GLU	A	366	14.839	52.749	17.625	1.00	0.00
ATOM	5304	CG	GLU	A	366	14.290	52.263	18.959	1.00	0.00
ATOM	5305	CD	GLU	A	366	15.373	52.181	19.998	1.00	0.00
ATOM	5306	OE1	GLU	A	366	16.498	52.484	19.682	1.00	0.00
ATOM	5307	OE2	GLU	A	366	15.058	51.925	21.136	1.00	0.00
ATOM	5308	H	GLU	A	366	17.023	51.700	18.307	1.00	0.00
ATOM	5309	HA	GLU	A	366	14.836	50.815	16.678	1.00	0.00
ATOM	5310	1HB	GLU	A	366	15.585	53.525	17.801	1.00	0.00
ATOM	5311	2HB	GLU	A	366	14.026	53.156	17.024	1.00	0.00
ATOM	5312	1HG	GLU	A	366	13.470	52.873	19.337	1.00	0.00
ATOM	5313	2HG	GLU	A	366	13.924	51.262	18.736	1.00	0.00
ATOM	5314	N	ASP	A	367	16.808	52.782	15.056	1.00	0.00
ATOM	5315	CA	ASP	A	367	17.047	53.334	13.727	1.00	0.00
ATOM	5316	C	ASP	A	367	16.677	52.424	12.567	1.00	0.00
ATOM	5317	O	ASP	A	367	17.120	51.280	12.486	1.00	0.00
ATOM	5318	CB	ASP	A	367	18.520	53.729	13.599	1.00	0.00
ATOM	5319	CG	ASP	A	367	18.911	54.967	14.394	1.00	0.00
ATOM	5320	OD1	ASP	A	367	18.035	55.616	14.915	1.00	0.00
ATOM	5321	OD2	ASP	A	367	20.083	55.166	14.607	1.00	0.00
ATOM	5322	H	ASP	A	367	17.526	52.868	15.761	1.00	0.00
ATOM	5323	HA	ASP	A	367	16.425	54.217	13.576	1.00	0.00
ATOM	5324	1HB	ASP	A	367	19.209	52.916	13.831	1.00	0.00
ATOM	5325	2HB	ASP	A	367	18.566	53.953	12.533	1.00	0.00
ATOM	5326	N	GLY	A	368	15.854	52.955	11.670	1.00	0.00
ATOM	5327	CA	GLY	A	368	15.423	52.206	10.510	1.00	0.00
ATOM	5328	C	GLY	A	368	15.320	53.130	9.316	1.00	0.00
ATOM	5329	O	GLY	A	368	15.651	54.309	9.414	1.00	0.00
ATOM	5330	H	GLY	A	368	15.521	53.900	11.797	1.00	0.00
ATOM	5331	1HA	GLY	A	368	16.148	51.418	10.305	1.00	0.00
ATOM	5332	2HA	GLY	A	368	14.451	51.759	10.715	1.00	0.00
ATOM	5333	N	ALA	A	369	14.864	52.597	8.189	1.00	0.00
ATOM	5334	CA	ALA	A	369	14.718	53.383	6.968	1.00	0.00
ATOM	5335	C	ALA	A	369	13.421	54.197	6.981	1.00	0.00
ATOM	5336	O	ALA	A	369	13.449	55.427	7.001	1.00	0.00
ATOM	5337	CB	ALA	A	369	14.764	52.484	5.730	1.00	0.00
ATOM	5338	H	ALA	A	369	14.611	51.619	8.178	1.00	0.00
ATOM	5339	HA	ALA	A	369	15.543	54.092	6.908	1.00	0.00
ATOM	5340	1HB	ALA	A	369	14.653	53.095	4.834	1.00	0.00
ATOM	5341	2HB	ALA	A	369	15.719	51.960	5.696	1.00	0.00
ATOM	5342	3HB	ALA	A	369	13.953	51.759	5.777	1.00	0.00
ATOM	5343	N	GLY	A	370	12.286	53.505	6.961	1.00	0.00
ATOM	5344	CA	GLY	A	370	11.002	54.179	6.972	1.00	0.00
ATOM	5345	C	GLY	A	370	10.038	53.456	7.886	1.00	0.00
ATOM	5346	O	GLY	A	370	10.388	53.113	9.012	1.00	0.00
ATOM	5347	H	GLY	A	370	12.312	52.496	6.938	1.00	0.00
ATOM	5348	1HA	GLY	A	370	11.139	55.201	7.324	1.00	0.00
ATOM	5349	2HA	GLY	A	370	10.600	54.196	5.960	1.00	0.00
ATOM	5350	N	THR	A	371	8.822	53.221	7.402	1.00	0.00
ATOM	5351	CA	THR	A	371	7.804	52.525	8.184	1.00	0.00

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ATOM	5352	C	THR	A	371	6.769	51.866	7.263	1.00	0.00
ATOM	5353	O	THR	A	371	6.282	52.490	6.317	1.00	0.00
ATOM	5354	CB	THR	A	371	7.086	53.480	9.156	1.00	0.00
ATOM	5355	OG1	THR	A	371	6.091	52.757	9.892	1.00	0.00
ATOM	5356	CG2	THR	A	371	6.422	54.617	8.394	1.00	0.00
ATOM	5357	H	THR	A	371	8.597	53.533	6.468	1.00	0.00
ATOM	5358	HA	THR	A	371	8.266	51.723	8.760	1.00	0.00
ATOM	5359	HB	THR	A	371	7.816	53.889	9.854	1.00	0.00
ATOM	5360	HG1	THR	A	371	5.451	52.383	9.282	1.00	0.00
ATOM	5361	1HG2	THR	A	371	5.921	55.281	9.098	1.00	0.00
ATOM	5362	2HG2	THR	A	371	7.179	55.175	7.842	1.00	0.00
ATOM	5363	3HG2	THR	A	371	5.692	54.208	7.697	1.00	0.00
ATOM	5364	N	THR	A	372	6.445	50.605	7.546	1.00	0.00
ATOM	5365	CA	THR	A	372	5.473	49.842	6.759	1.00	0.00
ATOM	5366	C	THR	A	372	5.518	50.184	5.268	1.00	0.00
ATOM	5367	O	THR	A	372	6.522	49.946	4.592	1.00	0.00
ATOM	5368	CB	THR	A	372	4.040	50.072	7.274	1.00	0.00
ATOM	5369	OG1	THR	A	372	3.690	51.454	7.117	1.00	0.00
ATOM	5370	CG2	THR	A	372	3.933	49.689	8.742	1.00	0.00
ATOM	5371	H	THR	A	372	6.892	50.164	8.337	1.00	0.00
ATOM	5372	HA	THR	A	372	5.703	48.778	6.819	1.00	0.00
ATOM	5373	HB	THR	A	372	3.351	49.463	6.689	1.00	0.00
ATOM	5374	HG1	THR	A	372	3.737	51.692	6.188	1.00	0.00
ATOM	5375	1HG2	THR	A	372	2.913	49.859	9.088	1.00	0.00
ATOM	5376	2HG2	THR	A	372	4.188	48.637	8.863	1.00	0.00
ATOM	5377	3HG2	THR	A	372	4.621	50.299	9.327	1.00	0.00
ATOM	5378	N	HIS	A	373	-9.014	42.039	6.802	1.00	0.00
ATOM	5379	CA	HIS	A	373	-9.947	41.418	7.740	1.00	0.00
ATOM	5380	C	HIS	A	373	-9.490	39.989	8.008	1.00	0.00
ATOM	5381	O	HIS	A	373	-9.156	39.260	7.072	1.00	0.00
ATOM	5382	CB	HIS	A	373	-11.380	41.433	7.198	1.00	0.00
ATOM	5383	CG	HIS	A	373	-12.381	40.819	8.127	1.00	0.00
ATOM	5384	ND1	HIS	A	373	-12.744	41.406	9.321	1.00	0.00
ATOM	5385	CD2	HIS	A	373	-13.094	39.672	8.038	1.00	0.00
ATOM	5386	CE1	HIS	A	373	-13.640	40.645	9.926	1.00	0.00
ATOM	5387	NE2	HIS	A	373	-13.868	39.588	9.169	1.00	0.00
ATOM	5388	H	HIS	A	373	-9.232	42.035	5.816	1.00	0.00
ATOM	5389	HA	HIS	A	373	-9.933	41.961	8.684	1.00	0.00
ATOM	5390	1HB	HIS	A	373	-11.706	42.458	7.022	1.00	0.00
ATOM	5391	2HB	HIS	A	373	-11.434	40.871	6.265	1.00	0.00
ATOM	5392	HD1	HIS	A	373	-12.453	42.304	9.651	1.00	0.00
ATOM	5393	HD2	HIS	A	373	-13.142	38.886	7.284	1.00	0.00
ATOM	5394	HE1	HIS	A	373	-14.056	40.938	10.890	1.00	0.00
ATOM	5395	N	LEU	A	374	-9.501	39.583	9.275	1.00	0.00
ATOM	5396	CA	LEU	A	374	-9.041	38.249	9.663	1.00	0.00
ATOM	5397	C	LEU	A	374	-7.513	38.224	9.603	1.00	0.00
ATOM	5398	O	LEU	A	374	-6.910	38.468	8.562	1.00	0.00
ATOM	5399	CB	LEU	A	374	-9.685	37.070	8.916	1.00	0.00
ATOM	5400	CG	LEU	A	374	-11.178	36.932	9.213	1.00	0.00
ATOM	5401	CD1	LEU	A	374	-11.829	35.842	8.361	1.00	0.00
ATOM	5402	CD2	LEU	A	374	-11.442	36.737	10.707	1.00	0.00
ATOM	5403	H	LEU	A	374	-9.837	40.214	9.988	1.00	0.00
ATOM	5404	HA	LEU	A	374	-9.343	38.043	10.689	1.00	0.00
ATOM	5405	1HB	LEU	A	374	-9.520	37.398	7.891	1.00	0.00
ATOM	5406	2HB	LEU	A	374	-9.146	36.139	9.090	1.00	0.00
ATOM	5407	HG	LEU	A	374	-11.653	37.871	8.928	1.00	0.00
ATOM	5408	1HD1	LEU	A	374	-12.890	35.776	8.602	1.00	0.00
ATOM	5409	2HD1	LEU	A	374	-11.713	36.087	7.305	1.00	0.00
ATOM	5410	3HD1	LEU	A	374	-11.350	34.885	8.567	1.00	0.00
ATOM	5411	1HD2	LEU	A	374	-12.515	36.644	10.877	1.00	0.00
ATOM	5412	2HD2	LEU	A	374	-10.939	35.833	11.051	1.00	0.00
ATOM	5413	3HD2	LEU	A	374	-11.061	37.596	11.259	1.00	0.00
ATOM	5414	N	THR	A	375	-6.887	37.924	10.731	1.00	0.00

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ATOM	5415	CA	THR	A	375	-5.443	37.884	10.797	1.00	0.00
ATOM	5416	C	THR	A	375	-4.995	36.583	11.425	1.00	0.00
ATOM	5417	O	THR	A	375	-5.788	35.655	11.586	1.00	0.00
ATOM	5418	CB	THR	A	375	-4.872	39.066	11.602	1.00	0.00
ATOM	5419	OG1	THR	A	375	-5.288	38.961	12.970	1.00	0.00
ATOM	5420	CG2	THR	A	375	-5.359	40.387	11.029	1.00	0.00
ATOM	5421	H	THR	A	375	-7.423	37.719	11.562	1.00	0.00
ATOM	5422	HA	THR	A	375	-5.027	37.919	9.790	1.00	0.00
ATOM	5423	HB	THR	A	375	-3.783	39.031	11.559	1.00	0.00
ATOM	5424	HG1	THR	A	375	-4.930	39.698	13.470	1.00	0.00
ATOM	5425	1HG2	THR	A	375	-4.944	41.210	11.611	1.00	0.00
ATOM	5426	2HG2	THR	A	375	-5.034	40.475	9.992	1.00	0.00
ATOM	5427	3HG2	THR	A	375	-6.446	40.423	11.072	1.00	0.00
ATOM	5428	N	PHE	A	376	-3.715	36.531	11.778	1.00	0.00
ATOM	5429	CA	PHE	A	376	-3.120	35.357	12.392	1.00	0.00
ATOM	5430	C	PHE	A	376	-2.317	35.783	13.625	1.00	0.00
ATOM	5431	O	PHE	A	376	-1.516	36.714	13.573	1.00	0.00
ATOM	5432	CB	PHE	A	376	-2.230	34.614	11.394	1.00	0.00
ATOM	5433	CG	PHE	A	376	-1.581	33.383	11.959	1.00	0.00
ATOM	5434	CD1	PHE	A	376	-2.303	32.209	12.111	1.00	0.00
ATOM	5435	CD2	PHE	A	376	-0.248	33.397	12.342	1.00	0.00
ATOM	5436	CE1	PHE	A	376	-1.707	31.075	12.631	1.00	0.00
ATOM	5437	CE2	PHE	A	376	0.350	32.266	12.861	1.00	0.00
ATOM	5438	CZ	PHE	A	376	-0.381	31.104	13.006	1.00	0.00
ATOM	5439	H	PHE	A	376	-3.139	37.343	11.610	1.00	0.00
ATOM	5440	HA	PHE	A	376	-3.904	34.677	12.727	1.00	0.00
ATOM	5441	1HB	PHE	A	376	-2.817	34.291	10.536	1.00	0.00
ATOM	5442	2HB	PHE	A	376	-1.423	35.264	11.056	1.00	0.00
ATOM	5443	HD1	PHE	A	376	-3.352	32.186	11.813	1.00	0.00
ATOM	5444	HD2	PHE	A	376	0.329	34.315	12.228	1.00	0.00
ATOM	5445	HE1	PHE	A	376	-2.286	30.159	12.745	1.00	0.00
ATOM	5446	HE2	PHE	A	376	1.399	32.290	13.157	1.00	0.00
ATOM	5447	HZ	PHE	A	376	0.089	30.211	13.418	1.00	0.00
ATOM	5448	N	PRO	A	377	-2.537	35.107	14.760	1.00	0.00
ATOM	5449	CA	PRO	A	377	-1.823	35.428	16.004	1.00	0.00
ATOM	5450	C	PRO	A	377	-0.354	35.028	15.916	1.00	0.00
ATOM	5451	O	PRO	A	377	-0.028	33.977	15.364	1.00	0.00
ATOM	5452	CB	PRO	A	377	-2.569	34.637	17.083	1.00	0.00
ATOM	5453	CG	PRO	A	377	-3.186	33.496	16.348	1.00	0.00
ATOM	5454	CD	PRO	A	377	-3.521	34.036	14.983	1.00	0.00
ATOM	5455	HA	PRO	A	377	-1.812	36.506	16.222	1.00	0.00
ATOM	5456	1HB	PRO	A	377	-1.885	34.282	17.868	1.00	0.00
ATOM	5457	2HB	PRO	A	377	-3.335	35.253	17.578	1.00	0.00
ATOM	5458	1HG	PRO	A	377	-2.491	32.646	16.277	1.00	0.00
ATOM	5459	2HG	PRO	A	377	-4.088	33.133	16.862	1.00	0.00
ATOM	5460	1HD	PRO	A	377	-3.428	33.271	14.199	1.00	0.00
ATOM	5461	2HD	PRO	A	377	-4.549	34.425	14.931	1.00	0.00
ATOM	5462	N	LEU	A	378	0.536	35.852	16.458	1.00	0.00
ATOM	5463	CA	LEU	A	378	1.949	35.503	16.438	1.00	0.00
ATOM	5464	C	LEU	A	378	2.804	36.310	17.402	1.00	0.00
ATOM	5465	O	LEU	A	378	2.956	37.522	17.262	1.00	0.00
ATOM	5466	CB	LEU	A	378	2.539	35.605	15.032	1.00	0.00
ATOM	5467	CG	LEU	A	378	3.923	34.965	14.971	1.00	0.00
ATOM	5468	CD1	LEU	A	378	3.882	33.495	15.390	1.00	0.00
ATOM	5469	CD2	LEU	A	378	4.573	35.164	13.607	1.00	0.00
ATOM	5470	H	LEU	A	378	0.250	36.721	16.886	1.00	0.00
ATOM	5471	HA	LEU	A	378	2.074	34.469	16.759	1.00	0.00
ATOM	5472	1HB	LEU	A	378	1.802	35.016	14.488	1.00	0.00
ATOM	5473	2HB	LEU	A	378	2.529	36.631	14.663	1.00	0.00
ATOM	5474	HG	LEU	A	378	4.550	35.480	15.699	1.00	0.00
ATOM	5475	1HD1	LEU	A	378	4.885	33.072	15.334	1.00	0.00
ATOM	5476	2HD1	LEU	A	378	3.513	33.418	16.413	1.00	0.00
ATOM	5477	3HD1	LEU	A	378	3.220	32.945	14.723	1.00	0.00

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ATOM	5478	1HD2	LEU	A	378	5.558	34.695	13.602	1.00	0.00
ATOM	5479	2HD2	LEU	A	378	3.950	34.709	12.837	1.00	0.00
ATOM	5480	3HD2	LEU	A	378	4.678	36.230	13.406	1.00	0.00
ATOM	5481	N	ASP	A	379	3.359	35.615	18.387	1.00	0.00
ATOM	5482	CA	ASP	A	379	4.218	36.229	19.387	1.00	0.00
ATOM	5483	C	ASP	A	379	5.676	35.871	19.160	1.00	0.00
ATOM	5484	O	ASP	A	379	6.021	34.697	18.993	1.00	0.00
ATOM	5485	CB	ASP	A	379	3.788	35.807	20.794	1.00	0.00
ATOM	5486	CG	ASP	A	379	2.413	36.314	21.210	1.00	0.00
ATOM	5487	OD1	ASP	A	379	2.178	37.494	21.097	1.00	0.00
ATOM	5488	OD2	ASP	A	379	1.562	35.503	21.487	1.00	0.00
ATOM	5489	H	ASP	A	379	3.174	34.623	18.439	1.00	0.00
ATOM	5490	HA	ASP	A	379	4.153	37.315	19.313	1.00	0.00
ATOM	5491	1HB	ASP	A	379	3.843	34.731	20.961	1.00	0.00
ATOM	5492	2HB	ASP	A	379	4.554	36.308	21.387	1.00	0.00
ATOM	5493	N	TYR	A	380	6.534	36.881	19.138	1.00	0.00
ATOM	5494	CA	TYR	A	380	7.955	36.631	18.987	1.00	0.00
ATOM	5495	C	TYR	A	380	8.684	37.574	19.927	1.00	0.00
ATOM	5496	O	TYR	A	380	9.085	38.678	19.548	1.00	0.00
ATOM	5497	CB	TYR	A	380	8.381	36.824	17.533	1.00	0.00
ATOM	5498	CG	TYR	A	380	9.714	36.148	17.354	1.00	0.00
ATOM	5499	CD1	TYR	A	380	9.765	34.772	17.170	1.00	0.00
ATOM	5500	CD2	TYR	A	380	10.884	36.893	17.399	1.00	0.00
ATOM	5501	CE1	TYR	A	380	10.994	34.133	17.073	1.00	0.00
ATOM	5502	CE2	TYR	A	380	12.110	36.254	17.306	1.00	0.00
ATOM	5503	CZ	TYR	A	380	12.164	34.875	17.165	1.00	0.00
ATOM	5504	OH	TYR	A	380	13.386	34.244	17.126	1.00	0.00
ATOM	5505	H	TYR	A	380	6.209	37.833	19.226	1.00	0.00
ATOM	5506	HA	TYR	A	380	8.182	35.603	19.270	1.00	0.00
ATOM	5507	1HB	TYR	A	380	7.603	36.384	16.907	1.00	0.00
ATOM	5508	2HB	TYR	A	380	8.430	37.897	17.351	1.00	0.00
ATOM	5509	HD1	TYR	A	380	8.830	34.215	17.106	1.00	0.00
ATOM	5510	HD2	TYR	A	380	10.815	37.975	17.509	1.00	0.00
ATOM	5511	HE1	TYR	A	380	11.044	33.054	16.929	1.00	0.00
ATOM	5512	HE2	TYR	A	380	13.032	36.835	17.344	1.00	0.00
ATOM	5513	HH	TYR	A	380	14.125	34.852	17.204	1.00	0.00
ATOM	5514	N	HIS	A	381	8.825	37.126	21.170	1.00	0.00
ATOM	5515	CA	HIS	A	381	9.494	37.900	22.197	1.00	0.00
ATOM	5516	C	HIS	A	381	10.855	37.311	22.539	1.00	0.00
ATOM	5517	O	HIS	A	381	10.957	36.202	23.067	1.00	0.00
ATOM	5518	CB	HIS	A	381	8.627	37.983	23.457	1.00	0.00
ATOM	5519	CG	HIS	A	381	7.223	38.433	23.193	1.00	0.00
ATOM	5520	ND1	HIS	A	381	6.894	39.753	22.971	1.00	0.00
ATOM	5521	CD2	HIS	A	381	6.064	37.738	23.115	1.00	0.00
ATOM	5522	CE1	HIS	A	381	5.592	39.851	22.767	1.00	0.00
ATOM	5523	NE2	HIS	A	381	5.066	38.643	22.850	1.00	0.00
ATOM	5524	H	HIS	A	381	8.453	36.217	21.403	1.00	0.00
ATOM	5525	HA	HIS	A	381	9.680	38.910	21.832	1.00	0.00
ATOM	5526	1HB	HIS	A	381	8.556	37.004	23.931	1.00	0.00
ATOM	5527	2HB	HIS	A	381	9.055	38.696	24.161	1.00	0.00
ATOM	5528	HD2	HIS	A	381	5.827	36.679	23.222	1.00	0.00
ATOM	5529	HE1	HIS	A	381	5.132	40.819	22.571	1.00	0.00
ATOM	5530	HE2	HIS	A	381	4.089	38.412	22.738	1.00	0.00
ATOM	5531	N	LEU	A	382	11.894	38.075	22.221	1.00	0.00
ATOM	5532	CA	LEU	A	382	13.266	37.698	22.488	1.00	0.00
ATOM	5533	C	LEU	A	382	13.628	38.173	23.887	1.00	0.00
ATOM	5534	O	LEU	A	382	14.425	39.100	24.053	1.00	0.00
ATOM	5535	CB	LEU	A	382	14.212	38.293	21.438	1.00	0.00
ATOM	5536	CG	LEU	A	382	14.042	37.740	20.017	1.00	0.00
ATOM	5537	CD1	LEU	A	382	14.887	38.544	19.039	1.00	0.00
ATOM	5538	CD2	LEU	A	382	14.438	36.272	19.992	1.00	0.00
ATOM	5539	H	LEU	A	382	11.705	38.960	21.772	1.00	0.00
ATOM	5540	HA	LEU	A	382	13.358	36.613	22.462	1.00	0.00

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ATOM	5541	1HB	LEU	A	382	13.888	39.332	21.476	1.00	0.00
ATOM	5542	2HB	LEU	A	382	15.254	38.227	21.749	1.00	0.00
ATOM	5543	HG	LEU	A	382	12.982	37.803	19.770	1.00	0.00
ATOM	5544	1HD1	LEU	A	382	14.759	38.144	18.033	1.00	0.00
ATOM	5545	2HD1	LEU	A	382	14.570	39.587	19.056	1.00	0.00
ATOM	5546	3HD1	LEU	A	382	15.936	38.478	19.325	1.00	0.00
ATOM	5547	1HD2	LEU	A	382	14.316	35.879	18.982	1.00	0.00
ATOM	5548	2HD2	LEU	A	382	15.480	36.170	20.298	1.00	0.00
ATOM	5549	3HD2	LEU	A	382	13.803	35.711	20.678	1.00	0.00
ATOM	5550	N	ASN	A	383	13.031	37.539	24.889	1.00	0.00
ATOM	5551	CA	ASN	A	383	13.279	37.893	26.278	1.00	0.00
ATOM	5552	C	ASN	A	383	13.921	36.731	27.023	1.00	0.00
ATOM	5553	O	ASN	A	383	13.705	36.533	28.218	1.00	0.00
ATOM	5554	CB	ASN	A	383	12.006	38.331	26.978	1.00	0.00
ATOM	5555	CG	ASN	A	383	10.958	37.255	27.057	1.00	0.00
ATOM	5556	OD1	ASN	A	383	11.105	36.173	26.478	1.00	0.00
ATOM	5557	ND2	ASN	A	383	9.866	37.577	27.704	1.00	0.00
ATOM	5558	H	ASN	A	383	12.387	36.790	24.680	1.00	0.00
ATOM	5559	HA	ASN	A	383	13.982	38.726	26.328	1.00	0.00
ATOM	5560	1HB	ASN	A	383	12.046	38.862	27.930	1.00	0.00
ATOM	5561	2HB	ASN	A	383	11.734	39.028	26.185	1.00	0.00
ATOM	5562	1HD2	ASN	A	383	9.126	36.910	27.797	1.00	0.00
ATOM	5563	2HD2	ASN	A	383	9.772	38.488	28.104	1.00	0.00
ATOM	5564	N	GLN	A	384	14.702	35.952	26.289	1.00	0.00
ATOM	5565	CA	GLN	A	384	15.405	34.813	26.853	1.00	0.00
ATOM	5566	C	GLN	A	384	16.569	34.508	25.914	1.00	0.00
ATOM	5567	O	GLN	A	384	16.579	34.954	24.757	1.00	0.00
ATOM	5568	CB	GLN	A	384	14.486	33.597	26.998	1.00	0.00
ATOM	5569	CG	GLN	A	384	13.798	33.180	25.710	1.00	0.00
ATOM	5570	CD	GLN	A	384	12.906	31.967	25.897	1.00	0.00
ATOM	5571	OE1	GLN	A	384	11.771	32.080	26.368	1.00	0.00
ATOM	5572	NE2	GLN	A	384	13.416	30.796	25.533	1.00	0.00
ATOM	5573	H	GLN	A	384	14.810	36.159	25.306	1.00	0.00
ATOM	5574	HA	GLN	A	384	15.795	35.075	27.836	1.00	0.00
ATOM	5575	1HB	GLN	A	384	15.102	32.779	27.370	1.00	0.00
ATOM	5576	2HB	GLN	A	384	13.737	33.857	27.748	1.00	0.00
ATOM	5577	1HG	GLN	A	384	13.273	33.885	25.066	1.00	0.00
ATOM	5578	2HG	GLN	A	384	14.718	32.859	25.221	1.00	0.00
ATOM	5579	1HE2	GLN	A	384	12.875	29.961	25.633	1.00	0.00
ATOM	5580	2HE2	GLN	A	384	14.342	30.749	25.158	1.00	0.00
ATOM	5581	N	PRO	A	385	17.567	33.752	26.399	1.00	0.00
ATOM	5582	CA	PRO	A	385	18.743	33.393	25.595	1.00	0.00
ATOM	5583	C	PRO	A	385	18.402	32.978	24.161	1.00	0.00
ATOM	5584	O	PRO	A	385	17.545	32.120	23.942	1.00	0.00
ATOM	5585	CB	PRO	A	385	19.409	32.290	26.418	1.00	0.00
ATOM	5586	CG	PRO	A	385	19.110	32.690	27.857	1.00	0.00
ATOM	5587	CD	PRO	A	385	17.683	33.210	27.752	1.00	0.00
ATOM	5588	HA	PRO	A	385	19.439	34.234	25.459	1.00	0.00
ATOM	5589	1HB	PRO	A	385	18.994	31.300	26.176	1.00	0.00
ATOM	5590	2HB	PRO	A	385	20.491	32.241	26.226	1.00	0.00
ATOM	5591	1HG	PRO	A	385	19.200	31.829	28.536	1.00	0.00
ATOM	5592	2HG	PRO	A	385	19.816	33.455	28.212	1.00	0.00
ATOM	5593	1HD	PRO	A	385	16.938	32.415	27.905	1.00	0.00
ATOM	5594	2HD	PRO	A	385	17.471	33.995	28.492	1.00	0.00
ATOM	5595	N	PHE	A	386	19.075	33.599	23.194	1.00	0.00
ATOM	5596	CA	PHE	A	386	18.859	33.300	21.780	1.00	0.00
ATOM	5597	C	PHE	A	386	20.135	33.447	20.965	1.00	0.00
ATOM	5598	O	PHE	A	386	21.165	33.892	21.459	1.00	0.00
ATOM	5599	CB	PHE	A	386	17.769	34.207	21.206	1.00	0.00
ATOM	5600	CG	PHE	A	386	18.121	35.668	21.232	1.00	0.00
ATOM	5601	CD1	PHE	A	386	18.892	36.228	20.225	1.00	0.00
ATOM	5602	CD2	PHE	A	386	17.682	36.483	22.264	1.00	0.00
ATOM	5603	CE1	PHE	A	386	19.216	37.572	20.248	1.00	0.00

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ATOM	5604	CE2	PHE	A	386	18.003	37.827	22.290	1.00	0.00
ATOM	5605	CZ	PHE	A	386	18.771	38.371	21.280	1.00	0.00
ATOM	5606	H	PHE	A	386	19.756	34.299	23.450	1.00	0.00
ATOM	5607	HA	PHE	A	386	18.546	32.261	21.665	1.00	0.00
ATOM	5608	1HB	PHE	A	386	17.578	33.952	20.165	1.00	0.00
ATOM	5609	2HB	PHE	A	386	16.850	34.098	21.781	1.00	0.00
ATOM	5610	HD1	PHE	A	386	19.242	35.597	19.409	1.00	0.00
ATOM	5611	HD2	PHE	A	386	17.075	36.053	23.062	1.00	0.00
ATOM	5612	HE1	PHE	A	386	19.823	37.999	19.451	1.00	0.00
ATOM	5613	HE2	PHE	A	386	17.651	38.457	23.106	1.00	0.00
ATOM	5614	HZ	PHE	A	386	19.027	39.429	21.300	1.00	0.00
ATOM	5615	N	ILE	A	387	20.041	33.072	19.698	1.00	0.00
ATOM	5616	CA	ILE	A	387	21.156	33.139	18.762	1.00	0.00
ATOM	5617	C	ILE	A	387	20.689	33.926	17.529	1.00	0.00
ATOM	5618	O	ILE	A	387	19.579	33.718	17.034	1.00	0.00
ATOM	5619	CB	ILE	A	387	21.652	31.743	18.343	1.00	0.00
ATOM	5620	CG1	ILE	A	387	22.147	30.964	19.565	1.00	0.00
ATOM	5621	CG2	ILE	A	387	22.753	31.860	17.301	1.00	0.00
ATOM	5622	CD1	ILE	A	387	22.442	29.508	19.282	1.00	0.00
ATOM	5623	H	ILE	A	387	19.149	32.725	19.376	1.00	0.00
ATOM	5624	HA	ILE	A	387	21.987	33.696	19.194	1.00	0.00
ATOM	5625	HB	ILE	A	387	20.817	31.179	17.929	1.00	0.00
ATOM	5626	1HG1	ILE	A	387	23.053	31.456	19.918	1.00	0.00
ATOM	5627	2HG1	ILE	A	387	21.374	31.035	20.330	1.00	0.00
ATOM	5628	1HG2	ILE	A	387	23.092	30.864	17.016	1.00	0.00
ATOM	5629	2HG2	ILE	A	387	22.368	32.376	16.422	1.00	0.00
ATOM	5630	3HG2	ILE	A	387	23.589	32.423	17.715	1.00	0.00
ATOM	5631	1HD1	ILE	A	387	22.788	29.023	20.195	1.00	0.00
ATOM	5632	2HD1	ILE	A	387	21.536	29.014	18.930	1.00	0.00
ATOM	5633	3HD1	ILE	A	387	23.216	29.435	18.519	1.00	0.00
ATOM	5634	N	PHE	A	388	21.506	34.853	17.048	1.00	0.00
ATOM	5635	CA	PHE	A	388	21.121	35.592	15.852	1.00	0.00
ATOM	5636	C	PHE	A	388	22.241	35.452	14.844	1.00	0.00
ATOM	5637	O	PHE	A	388	23.402	35.300	15.211	1.00	0.00
ATOM	5638	CB	PHE	A	388	20.850	37.065	16.164	1.00	0.00
ATOM	5639	CG	PHE	A	388	22.091	37.865	16.438	1.00	0.00
ATOM	5640	CD1	PHE	A	388	22.761	38.509	15.408	1.00	0.00
ATOM	5641	CD2	PHE	A	388	22.593	37.975	17.727	1.00	0.00
ATOM	5642	CE1	PHE	A	388	23.903	39.245	15.660	1.00	0.00
ATOM	5643	CE2	PHE	A	388	23.734	38.711	17.981	1.00	0.00
ATOM	5644	CZ	PHE	A	388	24.390	39.346	16.946	1.00	0.00
ATOM	5645	H	PHE	A	388	22.390	35.060	17.491	1.00	0.00
ATOM	5646	HA	PHE	A	388	20.212	35.163	15.429	1.00	0.00
ATOM	5647	1HB	PHE	A	388	20.352	37.542	15.321	1.00	0.00
ATOM	5648	2HB	PHE	A	388	20.222	37.150	17.050	1.00	0.00
ATOM	5649	HD1	PHE	A	388	22.375	38.429	14.391	1.00	0.00
ATOM	5650	HD2	PHE	A	388	22.075	37.472	18.544	1.00	0.00
ATOM	5651	HE1	PHE	A	388	24.419	39.745	14.841	1.00	0.00
ATOM	5652	HE2	PHE	A	388	24.117	38.790	18.998	1.00	0.00
ATOM	5653	HZ	PHE	A	388	25.290	39.925	17.144	1.00	0.00
ATOM	5654	N	VAL	A	389	21.887	35.492	13.570	1.00	0.00
ATOM	5655	CA	VAL	A	389	22.865	35.351	12.516	1.00	0.00
ATOM	5656	C	VAL	A	389	22.667	36.460	11.515	1.00	0.00
ATOM	5657	O	VAL	A	389	21.639	36.505	10.845	1.00	0.00
ATOM	5658	CB	VAL	A	389	22.763	33.988	11.806	1.00	0.00
ATOM	5659	CG1	VAL	A	389	23.796	33.889	10.693	1.00	0.00
ATOM	5660	CG2	VAL	A	389	22.945	32.853	12.802	1.00	0.00
ATOM	5661	H	VAL	A	389	20.916	35.623	13.326	1.00	0.00
ATOM	5662	HA	VAL	A	389	23.880	35.461	12.900	1.00	0.00
ATOM	5663	HB	VAL	A	389	21.763	33.882	11.384	1.00	0.00
ATOM	5664	1HG1	VAL	A	389	23.709	32.920	10.201	1.00	0.00
ATOM	5665	2HG1	VAL	A	389	23.623	34.681	9.964	1.00	0.00
ATOM	5666	3HG1	VAL	A	389	24.795	33.993	11.114	1.00	0.00

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ATOM	5667	1HG2	VAL	A	389	22.869	31.898	12.283	1.00	0.00
ATOM	5668	2HG2	VAL	A	389	23.925	32.935	13.271	1.00	0.00
ATOM	5669	3HG2	VAL	A	389	22.170	32.912	13.567	1.00	0.00
ATOM	5670	N	LEU	A	390	23.645	37.363	11.436	1.00	0.00
ATOM	5671	CA	LEU	A	390	23.608	38.487	10.502	1.00	0.00
ATOM	5672	C	LEU	A	390	24.131	37.931	9.186	1.00	0.00
ATOM	5673	O	LEU	A	390	25.302	37.592	9.080	1.00	0.00
ATOM	5674	CB	LEU	A	390	24.450	39.671	10.994	1.00	0.00
ATOM	5675	CG	LEU	A	390	24.626	40.812	9.985	1.00	0.00
ATOM	5676	CD1	LEU	A	390	23.306	41.547	9.793	1.00	0.00
ATOM	5677	CD2	LEU	A	390	25.706	41.764	10.475	1.00	0.00
ATOM	5678	H	LEU	A	390	24.440	37.259	12.050	1.00	0.00
ATOM	5679	HA	LEU	A	390	22.581	38.830	10.384	1.00	0.00
ATOM	5680	1HB	LEU	A	390	23.827	39.998	11.825	1.00	0.00
ATOM	5681	2HB	LEU	A	390	25.419	39.346	11.374	1.00	0.00
ATOM	5682	HG	LEU	A	390	24.971	40.368	9.051	1.00	0.00
ATOM	5683	1HD1	LEU	A	390	23.440	42.355	9.075	1.00	0.00
ATOM	5684	2HD1	LEU	A	390	22.553	40.852	9.420	1.00	0.00
ATOM	5685	3HD1	LEU	A	390	22.978	41.960	10.746	1.00	0.00
ATOM	5686	1HD2	LEU	A	390	25.830	42.574	9.756	1.00	0.00
ATOM	5687	2HD2	LEU	A	390	25.417	42.176	11.442	1.00	0.00
ATOM	5688	3HD2	LEU	A	390	26.648	41.224	10.578	1.00	0.00
ATOM	5689	N	ARG	A	391	23.268	37.836	8.184	1.00	0.00
ATOM	5690	CA	ARG	A	391	23.677	37.275	6.904	1.00	0.00
ATOM	5691	C	ARG	A	391	23.539	38.258	5.748	1.00	0.00
ATOM	5692	O	ARG	A	391	22.683	39.146	5.778	1.00	0.00
ATOM	5693	CB	ARG	A	391	22.944	35.976	6.605	1.00	0.00
ATOM	5694	CG	ARG	A	391	21.432	36.100	6.516	1.00	0.00
ATOM	5695	CD	ARG	A	391	20.746	34.885	6.006	1.00	0.00
ATOM	5696	NE	ARG	A	391	20.912	34.653	4.580	1.00	0.00
ATOM	5697	CZ	ARG	A	391	20.129	35.187	3.622	1.00	0.00
ATOM	5698	NH1	ARG	A	391	19.105	35.950	3.932	1.00	0.00
ATOM	5699	NH2	ARG	A	391	20.403	34.902	2.361	1.00	0.00
ATOM	5700	H	ARG	A	391	22.316	38.153	8.301	1.00	0.00
ATOM	5701	HA	ARG	A	391	24.736	37.016	6.936	1.00	0.00
ATOM	5702	1HB	ARG	A	391	23.331	35.604	5.657	1.00	0.00
ATOM	5703	2HB	ARG	A	391	23.200	35.276	7.400	1.00	0.00
ATOM	5704	1HG	ARG	A	391	21.042	36.312	7.511	1.00	0.00
ATOM	5705	2HG	ARG	A	391	21.191	36.928	5.847	1.00	0.00
ATOM	5706	1HD	ARG	A	391	21.139	34.012	6.526	1.00	0.00
ATOM	5707	2HD	ARG	A	391	19.678	34.973	6.201	1.00	0.00
ATOM	5708	HE	ARG	A	391	21.597	34.090	4.094	1.00	0.00
ATOM	5709	1HH1	ARG	A	391	18.897	36.144	4.901	1.00	0.00
ATOM	5710	2HH1	ARG	A	391	18.530	36.340	3.199	1.00	0.00
ATOM	5711	1HH2	ARG	A	391	21.184	34.298	2.141	1.00	0.00
ATOM	5712	2HH2	ARG	A	391	19.832	35.288	1.624	1.00	0.00
ATOM	5713	N	ASP	A	392	24.396	38.108	4.738	1.00	0.00
ATOM	5714	CA	ASP	A	392	24.325	38.956	3.549	1.00	0.00
ATOM	5715	C	ASP	A	392	23.362	38.256	2.601	1.00	0.00
ATOM	5716	O	ASP	A	392	23.558	37.085	2.276	1.00	0.00
ATOM	5717	CB	ASP	A	392	25.657	39.061	2.837	1.00	0.00
ATOM	5718	CG	ASP	A	392	25.305	39.854	1.616	1.00	0.00
ATOM	5719	OD1	ASP	A	392	25.690	39.484	0.516	1.00	0.00
ATOM	5720	OD2	ASP	A	392	24.571	40.816	1.779	1.00	0.00
ATOM	5721	H	ASP	A	392	25.110	37.395	4.792	1.00	0.00
ATOM	5722	HA	ASP	A	392	23.936	39.938	3.819	1.00	0.00
ATOM	5723	1HB	ASP	A	392	26.455	39.458	3.465	1.00	0.00
ATOM	5724	2HB	ASP	A	392	25.847	38.007	2.630	1.00	0.00
ATOM	5725	N	THR	A	393	22.325	38.969	2.170	1.00	0.00
ATOM	5726	CA	THR	A	393	21.308	38.403	1.280	1.00	0.00
ATOM	5727	C	THR	A	393	21.779	38.003	-0.117	1.00	0.00
ATOM	5728	O	THR	A	393	21.348	36.978	-0.647	1.00	0.00
ATOM	5729	CB	THR	A	393	20.139	39.392	1.115	1.00	0.00

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ATOM	5730	OG1	THR	A	393	19.525	39.626	2.389	1.00	0.00
ATOM	5731	CG2	THR	A	393	19.102	38.835	0.151	1.00	0.00
ATOM	5732	H	THR	A	393	22.239	39.930	2.467	1.00	0.00
ATOM	5733	HA	THR	A	393	20.935	37.467	1.695	1.00	0.00
ATOM	5734	HB	THR	A	393	20.524	40.335	0.728	1.00	0.00
ATOM	5735	HG1	THR	A	393	18.796	40.243	2.283	1.00	0.00
ATOM	5736	1HG2	THR	A	393	18.284	39.548	0.047	1.00	0.00
ATOM	5737	2HG2	THR	A	393	19.564	38.667	-0.822	1.00	0.00
ATOM	5738	3HG2	THR	A	393	18.716	37.893	0.538	1.00	0.00
ATOM	5739	N	ASP	A	394	22.648	38.815	-0.714	1.00	0.00
ATOM	5740	CA	ASP	A	394	23.143	38.555	-2.063	1.00	0.00
ATOM	5741	C	ASP	A	394	24.010	37.310	-2.188	1.00	0.00
ATOM	5742	O	ASP	A	394	23.723	36.420	-2.994	1.00	0.00
ATOM	5743	CB	ASP	A	394	23.930	39.769	-2.565	1.00	0.00
ATOM	5744	CG	ASP	A	394	23.072	40.985	-2.885	1.00	0.00
ATOM	5745	OD1	ASP	A	394	21.873	40.846	-2.933	1.00	0.00
ATOM	5746	OD2	ASP	A	394	23.605	42.069	-2.924	1.00	0.00
ATOM	5747	H	ASP	A	394	22.974	39.633	-0.220	1.00	0.00
ATOM	5748	HA	ASP	A	394	22.304	38.372	-2.735	1.00	0.00
ATOM	5749	1HB	ASP	A	394	24.743	40.063	-1.902	1.00	0.00
ATOM	5750	2HB	ASP	A	394	24.341	39.361	-3.488	1.00	0.00
ATOM	5751	N	THR	A	395	25.078	37.263	-1.397	1.00	0.00
ATOM	5752	CA	THR	A	395	26.011	36.146	-1.411	1.00	0.00
ATOM	5753	C	THR	A	395	25.610	35.069	-0.412	1.00	0.00
ATOM	5754	O	THR	A	395	25.933	33.901	-0.590	1.00	0.00
ATOM	5755	CB	THR	A	395	27.446	36.609	-1.100	1.00	0.00
ATOM	5756	OG1	THR	A	395	27.489	37.195	0.208	1.00	0.00
ATOM	5757	CG2	THR	A	395	27.911	37.632	-2.125	1.00	0.00
ATOM	5758	H	THR	A	395	25.243	38.034	-0.765	1.00	0.00
ATOM	5759	HA	THR	A	395	26.001	35.669	-2.392	1.00	0.00
ATOM	5760	HB	THR	A	395	28.110	35.745	-1.123	1.00	0.00
ATOM	5761	HG1	THR	A	395	26.896	37.950	0.239	1.00	0.00
ATOM	5762	1HG2	THR	A	395	28.927	37.947	-1.889	1.00	0.00
ATOM	5763	2HG2	THR	A	395	27.890	37.185	-3.119	1.00	0.00
ATOM	5764	3HG2	THR	A	395	27.248	38.496	-2.102	1.00	0.00
ATOM	5765	N	GLY	A	396	24.907	35.472	0.641	1.00	0.00
ATOM	5766	CA	GLY	A	396	24.486	34.532	1.661	1.00	0.00
ATOM	5767	C	GLY	A	396	25.570	34.338	2.701	1.00	0.00
ATOM	5768	O	GLY	A	396	25.484	33.449	3.539	1.00	0.00
ATOM	5769	H	GLY	A	396	24.659	36.446	0.738	1.00	0.00
ATOM	5770	1HA	GLY	A	396	23.588	34.913	2.148	1.00	0.00
ATOM	5771	2HA	GLY	A	396	24.265	33.574	1.193	1.00	0.00
ATOM	5772	N	ALA	A	397	26.592	35.184	2.649	1.00	0.00
ATOM	5773	CA	ALA	A	397	27.723	35.114	3.571	1.00	0.00
ATOM	5774	C	ALA	A	397	27.394	35.471	5.020	1.00	0.00
ATOM	5775	O	ALA	A	397	26.643	36.408	5.297	1.00	0.00
ATOM	5776	CB	ALA	A	397	28.859	36.020	3.094	1.00	0.00
ATOM	5777	H	ALA	A	397	26.579	35.903	1.940	1.00	0.00
ATOM	5778	HA	ALA	A	397	28.081	34.085	3.607	1.00	0.00
ATOM	5779	1HB	ALA	A	397	29.693	35.955	3.793	1.00	0.00
ATOM	5780	2HB	ALA	A	397	29.189	35.701	2.105	1.00	0.00
ATOM	5781	3HB	ALA	A	397	28.507	37.049	3.045	1.00	0.00
ATOM	5782	N	LEU	A	398	27.974	34.706	5.938	1.00	0.00
ATOM	5783	CA	LEU	A	398	27.795	34.906	7.375	1.00	0.00
ATOM	5784	C	LEU	A	398	28.645	36.112	7.760	1.00	0.00
ATOM	5785	O	LEU	A	398	29.867	36.038	7.735	1.00	0.00
ATOM	5786	CB	LEU	A	398	28.328	33.666	8.099	1.00	0.00
ATOM	5787	CG	LEU	A	398	27.811	33.305	9.497	1.00	0.00
ATOM	5788	CD1	LEU	A	398	28.725	32.257	10.133	1.00	0.00
ATOM	5789	CD2	LEU	A	398	27.626	34.492	10.436	1.00	0.00
ATOM	5790	H	LEU	A	398	28.565	33.953	5.616	1.00	0.00
ATOM	5791	HA	LEU	A	398	26.748	35.122	7.586	1.00	0.00
ATOM	5792	1HB	LEU	A	398	27.993	32.898	7.404	1.00	0.00

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ATOM	5793	2HB	LEU	A	398	29.417	33.663	8.146	1.00	0.00
ATOM	5794	HG	LEU	A	398	26.817	32.875	9.374	1.00	0.00
ATOM	5795	1HD1	LEU	A	398	28.353	32.004	11.126	1.00	0.00
ATOM	5796	2HD1	LEU	A	398	28.738	31.361	9.512	1.00	0.00
ATOM	5797	3HD1	LEU	A	398	29.735	32.657	10.215	1.00	0.00
ATOM	5798	1HD2	LEU	A	398	27.257	34.139	11.399	1.00	0.00
ATOM	5799	2HD2	LEU	A	398	28.581	34.998	10.576	1.00	0.00
ATOM	5800	3HD2	LEU	A	398	26.906	35.188	10.006	1.00	0.00
ATOM	5801	N	LEU	A	399	28.015	37.221	8.120	1.00	0.00
ATOM	5802	CA	LEU	A	399	28.775	38.415	8.481	1.00	0.00
ATOM	5803	C	LEU	A	399	28.966	38.567	9.982	1.00	0.00
ATOM	5804	O	LEU	A	399	29.938	39.184	10.431	1.00	0.00
ATOM	5805	CB	LEU	A	399	28.071	39.658	7.943	1.00	0.00
ATOM	5806	CG	LEU	A	399	27.660	39.570	6.473	1.00	0.00
ATOM	5807	CD1	LEU	A	399	26.884	40.818	6.050	1.00	0.00
ATOM	5808	CD2	LEU	A	399	28.841	39.286	5.543	1.00	0.00
ATOM	5809	H	LEU	A	399	27.006	37.253	8.149	1.00	0.00
ATOM	5810	HA	LEU	A	399	29.780	38.347	8.067	1.00	0.00
ATOM	5811	1HB	LEU	A	399	27.190	39.653	8.582	1.00	0.00
ATOM	5812	2HB	LEU	A	399	28.650	40.562	8.130	1.00	0.00
ATOM	5813	HG	LEU	A	399	26.983	38.721	6.376	1.00	0.00
ATOM	5814	1HD1	LEU	A	399	26.602	40.733	5.001	1.00	0.00
ATOM	5815	2HD1	LEU	A	399	25.985	40.912	6.660	1.00	0.00
ATOM	5816	3HD1	LEU	A	399	27.510	41.699	6.187	1.00	0.00
ATOM	5817	1HD2	LEU	A	399	28.488	39.234	4.513	1.00	0.00
ATOM	5818	2HD2	LEU	A	399	29.577	40.085	5.635	1.00	0.00
ATOM	5819	3HD2	LEU	A	399	29.300	38.336	5.817	1.00	0.00
ATOM	5820	N	PHE	A	400	28.052	38.006	10.762	1.00	0.00
ATOM	5821	CA	PHE	A	400	28.149	38.124	12.206	1.00	0.00
ATOM	5822	C	PHE	A	400	27.285	37.075	12.867	1.00	0.00
ATOM	5823	O	PHE	A	400	26.209	36.744	12.380	1.00	0.00
ATOM	5824	CB	PHE	A	400	27.673	39.498	12.685	1.00	0.00
ATOM	5825	CG	PHE	A	400	28.785	40.321	13.290	1.00	0.00
ATOM	5826	CD1	PHE	A	400	29.285	40.003	14.547	1.00	0.00
ATOM	5827	CD2	PHE	A	400	29.286	41.420	12.602	1.00	0.00
ATOM	5828	CE1	PHE	A	400	30.257	40.808	15.129	1.00	0.00
ATOM	5829	CE2	PHE	A	400	30.258	42.225	13.185	1.00	0.00
ATOM	5830	CZ	PHE	A	400	30.730	41.930	14.458	1.00	0.00
ATOM	5831	H	PHE	A	400	27.281	37.492	10.361	1.00	0.00
ATOM	5832	HA	PHE	A	400	29.177	37.947	12.524	1.00	0.00
ATOM	5833	1HB	PHE	A	400	27.269	40.068	11.849	1.00	0.00
ATOM	5834	2HB	PHE	A	400	26.906	39.383	13.449	1.00	0.00
ATOM	5835	HD1	PHE	A	400	28.906	39.120	15.063	1.00	0.00
ATOM	5836	HD2	PHE	A	400	28.915	41.651	11.603	1.00	0.00
ATOM	5837	HE1	PHE	A	400	30.651	40.560	16.114	1.00	0.00
ATOM	5838	HE2	PHE	A	400	30.650	43.087	12.646	1.00	0.00
ATOM	5839	HZ	PHE	A	400	31.468	42.577	14.930	1.00	0.00
ATOM	5840	N	ILE	A	401	27.755	36.535	13.975	1.00	0.00
ATOM	5841	CA	ILE	A	401	26.963	35.556	14.685	1.00	0.00
ATOM	5842	C	ILE	A	401	27.111	35.789	16.177	1.00	0.00
ATOM	5843	O	ILE	A	401	28.173	36.198	16.656	1.00	0.00
ATOM	5844	CB	ILE	A	401	27.379	34.115	14.339	1.00	0.00
ATOM	5845	CG1	ILE	A	401	26.415	33.112	14.979	1.00	0.00
ATOM	5846	CG2	ILE	A	401	28.806	33.850	14.793	1.00	0.00
ATOM	5847	CD1	ILE	A	401	26.565	31.702	14.456	1.00	0.00
ATOM	5848	H	ILE	A	401	28.661	36.793	14.339	1.00	0.00
ATOM	5849	HA	ILE	A	401	25.904	35.685	14.464	1.00	0.00
ATOM	5850	HB	ILE	A	401	27.309	33.974	13.261	1.00	0.00
ATOM	5851	1HG1	ILE	A	401	26.600	33.124	16.052	1.00	0.00
ATOM	5852	2HG1	ILE	A	401	25.403	33.466	14.782	1.00	0.00
ATOM	5853	1HG2	ILE	A	401	29.084	32.826	14.542	1.00	0.00
ATOM	5854	2HG2	ILE	A	401	29.482	34.542	14.293	1.00	0.00
ATOM	5855	3HG2	ILE	A	401	28.877	33.989	15.872	1.00	0.00

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ATOM	5856	1HD1	ILE	A	401	25.849	31.049	14.956	1.00	0.00
ATOM	5857	2HD1	ILE	A	401	26.379	31.689	13.382	1.00	0.00
ATOM	5858	3HD1	ILE	A	401	27.576	31.346	14.653	1.00	0.00
ATOM	5859	N	GLY	A	402	26.035	35.551	16.915	1.00	0.00
ATOM	5860	CA	GLY	A	402	26.102	35.747	18.344	1.00	0.00
ATOM	5861	C	GLY	A	402	25.144	34.907	19.166	1.00	0.00
ATOM	5862	O	GLY	A	402	24.014	34.642	18.747	1.00	0.00
ATOM	5863	H	GLY	A	402	25.169	35.236	16.502	1.00	0.00
ATOM	5864	1HA	GLY	A	402	27.107	35.506	18.690	1.00	0.00
ATOM	5865	2HA	GLY	A	402	25.881	36.789	18.571	1.00	0.00
ATOM	5866	N	LYS	A	403	25.616	34.474	20.334	1.00	0.00
ATOM	5867	CA	LYS	A	403	24.816	33.703	21.279	1.00	0.00
ATOM	5868	C	LYS	A	403	24.583	34.713	22.395	1.00	0.00
ATOM	5869	O	LYS	A	403	25.517	35.075	23.091	1.00	0.00
ATOM	5870	CB	LYS	A	403	25.524	32.441	21.774	1.00	0.00
ATOM	5871	CG	LYS	A	403	24.693	31.583	22.718	1.00	0.00
ATOM	5872	CD	LYS	A	403	25.324	30.213	22.922	1.00	0.00
ATOM	5873	CE	LYS	A	403	24.509	29.366	23.888	1.00	0.00
ATOM	5874	NZ	LYS	A	403	25.133	28.035	24.122	1.00	0.00
ATOM	5875	H	LYS	A	403	26.574	34.695	20.566	1.00	0.00
ATOM	5876	HA	LYS	A	403	23.886	33.388	20.804	1.00	0.00
ATOM	5877	1HB	LYS	A	403	25.789	31.857	20.892	1.00	0.00
ATOM	5878	2HB	LYS	A	403	26.433	32.762	22.283	1.00	0.00
ATOM	5879	1HG	LYS	A	403	24.619	32.096	23.678	1.00	0.00
ATOM	5880	2HG	LYS	A	403	23.697	31.464	22.293	1.00	0.00
ATOM	5881	1HD	LYS	A	403	25.382	29.711	21.956	1.00	0.00
ATOM	5882	2HD	LYS	A	403	26.329	30.350	23.320	1.00	0.00
ATOM	5883	1HE	LYS	A	403	24.432	29.902	24.832	1.00	0.00
ATOM	5884	2HE	LYS	A	403	23.513	29.230	23.466	1.00	0.00
ATOM	5885	1HZ	LYS	A	403	24.562	27.505	24.766	1.00	0.00
ATOM	5886	2HZ	LYS	A	403	25.203	27.536	23.246	1.00	0.00
ATOM	5887	3HZ	LYS	A	403	26.055	28.160	24.514	1.00	0.00
ATOM	5888	N	ILE	A	404	23.360	35.194	22.552	1.00	0.00
ATOM	5889	CA	ILE	A	404	23.080	36.191	23.586	1.00	0.00
ATOM	5890	C	ILE	A	404	22.460	35.577	24.845	1.00	0.00
ATOM	5891	O	ILE	A	404	21.269	35.253	24.870	1.00	0.00
ATOM	5892	CB	ILE	A	404	22.141	37.290	23.056	1.00	0.00
ATOM	5893	CG1	ILE	A	404	22.714	37.912	21.780	1.00	0.00
ATOM	5894	CG2	ILE	A	404	21.916	38.355	24.118	1.00	0.00
ATOM	5895	CD1	ILE	A	404	24.077	38.539	21.966	1.00	0.00
ATOM	5896	H	ILE	A	404	22.607	34.876	21.958	1.00	0.00
ATOM	5897	HA	ILE	A	404	24.004	36.641	23.946	1.00	0.00
ATOM	5898	HB	ILE	A	404	21.186	36.840	22.784	1.00	0.00
ATOM	5899	1HG1	ILE	A	404	22.776	37.122	21.033	1.00	0.00
ATOM	5900	2HG1	ILE	A	404	22.007	38.673	21.445	1.00	0.00
ATOM	5901	1HG2	ILE	A	404	21.250	39.124	23.726	1.00	0.00
ATOM	5902	2HG2	ILE	A	404	21.466	37.901	24.999	1.00	0.00
ATOM	5903	3HG2	ILE	A	404	22.870	38.806	24.389	1.00	0.00
ATOM	5904	1HD1	ILE	A	404	24.417	38.960	21.019	1.00	0.00
ATOM	5905	2HD1	ILE	A	404	24.015	39.331	22.713	1.00	0.00
ATOM	5906	3HD1	ILE	A	404	24.784	37.781	22.299	1.00	0.00
ATOM	5907	N	LEU	A	405	23.281	35.414	25.882	1.00	0.00
ATOM	5908	CA	LEU	A	405	22.831	34.862	27.161	1.00	0.00
ATOM	5909	C	LEU	A	405	22.400	36.004	28.085	1.00	0.00
ATOM	5910	O	LEU	A	405	21.588	35.808	28.985	1.00	0.00
ATOM	5911	CB	LEU	A	405	23.940	34.024	27.810	1.00	0.00
ATOM	5912	CG	LEU	A	405	24.381	32.792	27.010	1.00	0.00
ATOM	5913	CD1	LEU	A	405	25.542	32.102	27.711	1.00	0.00
ATOM	5914	CD2	LEU	A	405	23.204	31.841	26.851	1.00	0.00
ATOM	5915	H	LEU	A	405	24.249	35.683	25.776	1.00	0.00
ATOM	5916	HA	LEU	A	405	21.962	34.225	26.998	1.00	0.00
ATOM	5917	1HB	LEU	A	405	24.737	34.766	27.824	1.00	0.00
ATOM	5918	2HB	LEU	A	405	23.687	33.743	28.833	1.00	0.00

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ATOM	5919	HG	LEU	A	405	24.666	33.137	26.016	1.00	0.00
ATOM	5920	1HD1	LEU	A	405	25.849	31.228	27.135	1.00	0.00
ATOM	5921	2HD1	LEU	A	405	26.381	32.793	27.793	1.00	0.00
ATOM	5922	3HD1	LEU	A	405	25.231	31.788	28.707	1.00	0.00
ATOM	5923	1HD2	LEU	A	405	23.518	30.966	26.281	1.00	0.00
ATOM	5924	2HD2	LEU	A	405	22.854	31.527	27.835	1.00	0.00
ATOM	5925	3HD2	LEU	A	405	22.395	32.346	26.323	1.00	0.00
ATOM	5926	N	ASP	A	406	22.947	37.193	27.839	1.00	0.00
ATOM	5927	CA	ASP	A	406	22.647	38.385	28.630	1.00	0.00
ATOM	5928	C	ASP	A	406	22.751	39.636	27.748	1.00	0.00
ATOM	5929	O	ASP	A	406	23.845	40.028	27.344	1.00	0.00
ATOM	5930	CB	ASP	A	406	23.592	38.494	29.829	1.00	0.00
ATOM	5931	CG	ASP	A	406	23.298	39.664	30.758	1.00	0.00
ATOM	5932	OD1	ASP	A	406	22.454	40.462	30.427	1.00	0.00
ATOM	5933	OD2	ASP	A	406	23.801	39.665	31.856	1.00	0.00
ATOM	5934	H	ASP	A	406	23.597	37.264	27.069	1.00	0.00
ATOM	5935	HA	ASP	A	406	21.623	38.334	29.001	1.00	0.00
ATOM	5936	1HB	ASP	A	406	23.661	37.575	30.413	1.00	0.00
ATOM	5937	2HB	ASP	A	406	24.537	38.669	29.313	1.00	0.00
ATOM	5938	N	PRO	A	407	21.613	40.286	27.457	1.00	0.00
ATOM	5939	CA	PRO	A	407	21.581	41.492	26.623	1.00	0.00
ATOM	5940	C	PRO	A	407	22.489	42.590	27.168	1.00	0.00
ATOM	5941	O	PRO	A	407	23.082	43.355	26.407	1.00	0.00
ATOM	5942	CB	PRO	A	407	20.108	41.912	26.635	1.00	0.00
ATOM	5943	CG	PRO	A	407	19.361	40.641	26.851	1.00	0.00
ATOM	5944	CD	PRO	A	407	20.197	39.846	27.819	1.00	0.00
ATOM	5945	HA	PRO	A	407	21.949	41.313	25.602	1.00	0.00
ATOM	5946	1HB	PRO	A	407	19.902	42.636	27.437	1.00	0.00
ATOM	5947	2HB	PRO	A	407	19.817	42.389	25.688	1.00	0.00
ATOM	5948	1HG	PRO	A	407	18.358	40.833	27.261	1.00	0.00
ATOM	5949	2HG	PRO	A	407	19.223	40.095	25.906	1.00	0.00
ATOM	5950	1HD	PRO	A	407	19.947	40.070	28.866	1.00	0.00
ATOM	5951	2HD	PRO	A	407	20.071	38.761	27.683	1.00	0.00
ATOM	5952	N	ARG	A	408	22.578	42.659	28.494	1.00	0.00
ATOM	5953	CA	ARG	A	408	23.377	43.669	29.171	1.00	0.00
ATOM	5954	C	ARG	A	408	24.826	43.673	28.721	1.00	0.00
ATOM	5955	O	ARG	A	408	25.599	44.549	29.091	1.00	0.00
ATOM	5956	CB	ARG	A	408	23.277	43.544	30.684	1.00	0.00
ATOM	5957	CG	ARG	A	408	21.909	43.869	31.264	1.00	0.00
ATOM	5958	CD	ARG	A	408	21.813	43.703	32.737	1.00	0.00
ATOM	5959	NE	ARG	A	408	22.619	44.641	33.503	1.00	0.00
ATOM	5960	CZ	ARG	A	408	22.881	44.527	34.819	1.00	0.00
ATOM	5961	NH1	ARG	A	408	22.376	43.541	35.527	1.00	0.00
ATOM	5962	NH2	ARG	A	408	23.642	45.446	35.386	1.00	0.00
ATOM	5963	H	ARG	A	408	22.070	41.983	29.046	1.00	0.00
ATOM	5964	HA	ARG	A	408	22.995	44.662	28.933	1.00	0.00
ATOM	5965	1HB	ARG	A	408	23.540	42.518	30.937	1.00	0.00
ATOM	5966	2HB	ARG	A	408	24.017	44.223	31.109	1.00	0.00
ATOM	5967	1HG	ARG	A	408	21.669	44.906	31.026	1.00	0.00
ATOM	5968	2HG	ARG	A	408	21.173	43.211	30.802	1.00	0.00
ATOM	5969	1HD	ARG	A	408	20.776	43.839	33.041	1.00	0.00
ATOM	5970	2HD	ARG	A	408	22.141	42.699	33.002	1.00	0.00
ATOM	5971	HE	ARG	A	408	23.089	45.483	33.200	1.00	0.00
ATOM	5972	1HH1	ARG	A	408	21.781	42.856	35.083	1.00	0.00
ATOM	5973	2HH1	ARG	A	408	22.584	43.473	36.513	1.00	0.00
ATOM	5974	1HH2	ARG	A	408	24.008	46.208	34.830	1.00	0.00
ATOM	5975	2HH2	ARG	A	408	23.854	45.385	36.371	1.00	0.00
ATOM	5976	N	GLY	A	409	25.201	42.694	27.915	1.00	0.00
ATOM	5977	CA	GLY	A	409	26.567	42.655	27.442	1.00	0.00
ATOM	5978	C	GLY	A	409	27.508	42.124	28.498	1.00	0.00
ATOM	5979	O	GLY	A	409	27.117	41.960	29.654	1.00	0.00
ATOM	5980	H	GLY	A	409	24.558	41.973	27.621	1.00	0.00
ATOM	5981	1HA	GLY	A	409	26.622	42.009	26.566	1.00	0.00

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ATOM	5982	2HA	GLY	A	409	26.878	43.663	27.169	1.00	0.00
ATOM	5983	N	PRO	A	410	28.766	41.846	28.121	1.00	0.00
ATOM	5984	CA	PRO	A	410	29.793	41.324	29.025	1.00	0.00
ATOM	5985	C	PRO	A	410	29.915	42.122	30.327	1.00	0.00
ATOM	5986	O	PRO	A	410	29.736	43.342	30.348	1.00	0.00
ATOM	5987	OXT	PRO	A	410	30.189	41.560	31.351	1.00	0.00
ATOM	5988	CB	PRO	A	410	31.058	41.371	28.160	1.00	0.00
ATOM	5989	CG	PRO	A	410	30.557	41.243	26.723	1.00	0.00
ATOM	5990	CD	PRO	A	410	29.253	42.029	26.760	1.00	0.00
ATOM	5991	HA	PRO	A	410	29.579	40.301	29.367	1.00	0.00
ATOM	5992	1HB	PRO	A	410	31.609	42.312	28.303	1.00	0.00
ATOM	5993	2HB	PRO	A	410	31.748	40.552	28.411	1.00	0.00
ATOM	5994	1HG	PRO	A	410	31.282	41.662	26.010	1.00	0.00
ATOM	5995	2HG	PRO	A	410	30.407	40.189	26.447	1.00	0.00
ATOM	5996	1HD	PRO	A	410	29.404	43.096	26.542	1.00	0.00
ATOM	5997	2HD	PRO	A	410	28.520	41.653	26.031	1.00	0.00
TER										
ATOM	5998	N	THR	B	210	37.066	7.904	-5.395	1.00	0.00
ATOM	5999	CA	THR	B	210	38.372	8.458	-5.740	1.00	0.00
ATOM	6000	C	THR	B	210	38.705	9.732	-4.983	1.00	0.00
ATOM	6001	O	THR	B	210	39.297	10.669	-5.509	1.00	0.00
ATOM	6002	CB	THR	B	210	38.466	8.750	-7.250	1.00	0.00
ATOM	6003	OG1	THR	B	210	37.390	9.613	-7.639	1.00	0.00
ATOM	6004	CG2	THR	B	210	38.389	7.458	-8.048	1.00	0.00
ATOM	6005	1H	THR	B	210	36.366	7.796	-6.101	1.00	0.00
ATOM	6006	2H	THR	B	210	37.000	6.983	-5.011	1.00	0.00
ATOM	6007	3H	THR	B	210	36.491	8.363	-4.718	1.00	0.00
ATOM	6008	HA	THR	B	210	39.156	7.752	-5.467	1.00	0.00
ATOM	6009	HB	THR	B	210	39.413	9.248	-7.456	1.00	0.00
ATOM	6010	HG1	THR	B	210	36.551	9.186	-7.448	1.00	0.00
ATOM	6011	1HG2	THR	B	210	38.457	7.685	-9.112	1.00	0.00
ATOM	6012	2HG2	THR	B	210	39.212	6.805	-7.762	1.00	0.00
ATOM	6013	3HG2	THR	B	210	37.442	6.960	-7.843	1.00	0.00
ATOM	6014	N	SER	B	211	38.298	9.712	-3.703	1.00	0.00
ATOM	6015	CA	SER	B	211	38.449	10.863	-2.805	1.00	0.00
ATOM	6016	C	SER	B	211	39.736	11.655	-2.974	1.00	0.00
ATOM	6017	O	SER	B	211	39.727	12.807	-3.381	1.00	0.00
ATOM	6018	CB	SER	B	211	38.341	10.389	-1.368	1.00	0.00
ATOM	6019	OG	SER	B	211	39.302	9.418	-1.060	1.00	0.00
ATOM	6020	H	SER	B	211	37.862	8.879	-3.362	1.00	0.00
ATOM	6021	HA	SER	B	211	37.624	11.574	-2.871	1.00	0.00
ATOM	6022	1HB	SER	B	211	38.478	11.246	-0.708	1.00	0.00
ATOM	6023	2HB	SER	B	211	37.349	9.968	-1.213	1.00	0.00
ATOM	6024	HG	SER	B	211	39.200	9.146	-0.145	1.00	0.00
ATOM	6025	N	ILE	B	212	40.854	10.949	-2.722	1.00	0.00
ATOM	6026	CA	ILE	B	212	42.173	11.581	-2.865	1.00	0.00
ATOM	6027	C	ILE	B	212	42.367	12.321	-4.187	1.00	0.00
ATOM	6028	O	ILE	B	212	42.798	13.466	-4.247	1.00	0.00
ATOM	6029	CB	ILE	B	212	43.299	10.539	-2.726	1.00	0.00
ATOM	6030	CG1	ILE	B	212	43.359	10.007	-1.292	1.00	0.00
ATOM	6031	CG2	ILE	B	212	44.635	11.142	-3.130	1.00	0.00
ATOM	6032	CD1	ILE	B	212	44.248	8.796	-1.126	1.00	0.00
ATOM	6033	H	ILE	B	212	40.721	10.029	-2.350	1.00	0.00
ATOM	6034	HA	ILE	B	212	42.305	12.367	-2.122	1.00	0.00
ATOM	6035	HB	ILE	B	212	43.075	9.687	-3.367	1.00	0.00
ATOM	6036	1HG1	ILE	B	212	43.726	10.816	-0.660	1.00	0.00
ATOM	6037	2HG1	ILE	B	212	42.340	9.752	-0.997	1.00	0.00
ATOM	6038	1HG2	ILE	B	212	45.419	10.392	-3.025	1.00	0.00
ATOM	6039	2HG2	ILE	B	212	44.586	11.472	-4.166	1.00	0.00
ATOM	6040	3HG2	ILE	B	212	44.859	11.994	-2.488	1.00	0.00
ATOM	6041	1HD1	ILE	B	212	44.240	8.476	-0.083	1.00	0.00
ATOM	6042	2HD1	ILE	B	212	43.880	7.984	-1.756	1.00	0.00
ATOM	6043	3HD1	ILE	B	212	45.266	9.048	-1.418	1.00	0.00

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ATOM	6044	N	GLN	B	213	41.977	11.614	-5.260	1.00	0.00
ATOM	6045	CA	GLN	B	213	42.072	12.227	-6.584	1.00	0.00
ATOM	6046	C	GLN	B	213	41.233	13.491	-6.728	1.00	0.00
ATOM	6047	O	GLN	B	213	41.630	14.471	-7.348	1.00	0.00
ATOM	6048	CB	GLN	B	213	41.649	11.220	-7.656	1.00	0.00
ATOM	6049	CG	GLN	B	213	41.772	11.737	-9.080	1.00	0.00
ATOM	6050	CD	GLN	B	213	41.399	10.688	-10.111	1.00	0.00
ATOM	6051	OE1	GLN	B	213	40.988	9.577	-9.766	1.00	0.00
ATOM	6052	NE2	GLN	B	213	41.545	11.034	-11.385	1.00	0.00
ATOM	6053	H	GLN	B	213	41.513	10.741	-5.123	1.00	0.00
ATOM	6054	HA	GLN	B	213	43.099	12.544	-6.767	1.00	0.00
ATOM	6055	1HB	GLN	B	213	42.280	10.339	-7.529	1.00	0.00
ATOM	6056	2HB	GLN	B	213	40.612	10.955	-7.449	1.00	0.00
ATOM	6057	1HG	GLN	B	213	41.345	12.687	-9.401	1.00	0.00
ATOM	6058	2HG	GLN	B	213	42.859	11.819	-9.048	1.00	0.00
ATOM	6059	1HE2	GLN	B	213	41.317	10.383	-12.110	1.00	0.00
ATOM	6060	2HE2	GLN	B	213	41.885	11.945	-11.621	1.00	0.00
ATOM	6061	N	PHE	B	214	40.040	13.431	-6.116	1.00	0.00
ATOM	6062	CA	PHE	B	214	39.204	14.632	-6.092	1.00	0.00
ATOM	6063	C	PHE	B	214	39.843	15.791	-5.355	1.00	0.00
ATOM	6064	O	PHE	B	214	39.881	16.913	-5.842	1.00	0.00
ATOM	6065	CB	PHE	B	214	37.847	14.315	-5.462	1.00	0.00
ATOM	6066	CG	PHE	B	214	36.897	13.612	-6.390	1.00	0.00
ATOM	6067	CD1	PHE	B	214	37.140	13.572	-7.755	1.00	0.00
ATOM	6068	CD2	PHE	B	214	35.759	12.990	-5.900	1.00	0.00
ATOM	6069	CE1	PHE	B	214	36.267	12.926	-8.609	1.00	0.00
ATOM	6070	CE2	PHE	B	214	34.885	12.342	-6.752	1.00	0.00
ATOM	6071	CZ	PHE	B	214	35.140	12.311	-8.108	1.00	0.00
ATOM	6072	H	PHE	B	214	39.791	12.620	-5.581	1.00	0.00
ATOM	6073	HA	PHE	B	214	39.044	14.991	-7.110	1.00	0.00
ATOM	6074	1HB	PHE	B	214	37.977	13.664	-4.598	1.00	0.00
ATOM	6075	2HB	PHE	B	214	37.354	15.235	-5.151	1.00	0.00
ATOM	6076	HD1	PHE	B	214	38.032	14.058	-8.151	1.00	0.00
ATOM	6077	HD2	PHE	B	214	35.557	13.015	-4.829	1.00	0.00
ATOM	6078	HE1	PHE	B	214	36.470	12.903	-9.680	1.00	0.00
ATOM	6079	HE2	PHE	B	214	33.994	11.856	-6.354	1.00	0.00
ATOM	6080	HZ	PHE	B	214	34.451	11.802	-8.781	1.00	0.00
ATOM	6081	N	ASN	B	215	40.382	15.464	-4.170	1.00	0.00
ATOM	6082	CA	ASN	B	215	41.040	16.500	-3.371	1.00	0.00
ATOM	6083	C	ASN	B	215	42.180	17.169	-4.111	1.00	0.00
ATOM	6084	O	ASN	B	215	42.268	18.386	-4.183	1.00	0.00
ATOM	6085	CB	ASN	B	215	41.546	15.941	-2.054	1.00	0.00
ATOM	6086	CG	ASN	B	215	40.455	15.645	-1.062	1.00	0.00
ATOM	6087	OD1	ASN	B	215	39.333	16.153	-1.173	1.00	0.00
ATOM	6088	ND2	ASN	B	215	40.800	14.891	-0.050	1.00	0.00
ATOM	6089	H	ASN	B	215	40.313	14.524	-3.836	1.00	0.00
ATOM	6090	HA	ASN	B	215	40.330	17.296	-3.140	1.00	0.00
ATOM	6091	1HB	ASN	B	215	42.275	15.130	-2.035	1.00	0.00
ATOM	6092	2HB	ASN	B	215	42.033	16.874	-1.771	1.00	0.00
ATOM	6093	1HD2	ASN	B	215	40.125	14.653	0.649	1.00	0.00
ATOM	6094	2HD2	ASN	B	215	41.738	14.554	0.024	1.00	0.00
ATOM	6095	N	LEU	B	216	43.022	16.318	-4.716	1.00	0.00
ATOM	6096	CA	LEU	B	216	44.134	16.848	-5.508	1.00	0.00
ATOM	6097	C	LEU	B	216	43.713	17.667	-6.715	1.00	0.00
ATOM	6098	O	LEU	B	216	44.300	18.689	-7.052	1.00	0.00
ATOM	6099	CB	LEU	B	216	45.033	15.692	-5.965	1.00	0.00
ATOM	6100	CG	LEU	B	216	45.687	14.887	-4.836	1.00	0.00
ATOM	6101	CD1	LEU	B	216	46.402	13.671	-5.408	1.00	0.00
ATOM	6102	CD2	LEU	B	216	46.661	15.776	-4.076	1.00	0.00
ATOM	6103	H	LEU	B	216	42.894	15.333	-4.592	1.00	0.00
ATOM	6104	HA	LEU	B	216	44.718	17.539	-4.900	1.00	0.00
ATOM	6105	1HB	LEU	B	216	44.289	15.082	-6.476	1.00	0.00
ATOM	6106	2HB	LEU	B	216	45.784	16.024	-6.682	1.00	0.00

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ATOM	6107	HG	LEU	B	216	44.895	14.594	-4.146	1.00	0.00
ATOM	6108	1HD1	LEU	B	216	46.863	13.105	-4.598	1.00	0.00
ATOM	6109	2HD1	LEU	B	216	45.681	13.037	-5.927	1.00	0.00
ATOM	6110	3HD1	LEU	B	216	47.170	13.995	-6.107	1.00	0.00
ATOM	6111	1HD2	LEU	B	216	47.125	15.203	-3.273	1.00	0.00
ATOM	6112	2HD2	LEU	B	216	47.431	16.138	-4.757	1.00	0.00
ATOM	6113	3HD2	LEU	B	216	46.125	16.625	-3.652	1.00	0.00
ATOM	6114	N	ARG	B	217	42.631	17.182	-7.349	1.00	0.00
ATOM	6115	CA	ARG	B	217	42.059	17.955	-8.451	1.00	0.00
ATOM	6116	C	ARG	B	217	41.611	19.338	-8.027	1.00	0.00
ATOM	6117	O	ARG	B	217	41.837	20.339	-8.696	1.00	0.00
ATOM	6118	CB	ARG	B	217	40.926	17.208	-9.140	1.00	0.00
ATOM	6119	CG	ARG	B	217	40.360	17.898	-10.370	1.00	0.00
ATOM	6120	CD	ARG	B	217	39.237	17.173	-11.017	1.00	0.00
ATOM	6121	NE	ARG	B	217	39.594	15.873	-11.563	1.00	0.00
ATOM	6122	CZ	ARG	B	217	38.714	14.892	-11.843	1.00	0.00
ATOM	6123	NH1	ARG	B	217	37.432	15.042	-11.595	1.00	0.00
ATOM	6124	NH2	ARG	B	217	39.178	13.764	-12.351	1.00	0.00
ATOM	6125	H	ARG	B	217	42.216	16.324	-7.043	1.00	0.00
ATOM	6126	HA	ARG	B	217	42.814	18.114	-9.221	1.00	0.00
ATOM	6127	1HB	ARG	B	217	41.316	16.231	-9.423	1.00	0.00
ATOM	6128	2HB	ARG	B	217	40.134	17.082	-8.402	1.00	0.00
ATOM	6129	1HG	ARG	B	217	39.998	18.885	-10.078	1.00	0.00
ATOM	6130	2HG	ARG	B	217	41.158	18.007	-11.105	1.00	0.00
ATOM	6131	1HD	ARG	B	217	38.449	17.011	-10.282	1.00	0.00
ATOM	6132	2HD	ARG	B	217	38.850	17.777	-11.837	1.00	0.00
ATOM	6133	HE	ARG	B	217	40.504	15.507	-11.812	1.00	0.00
ATOM	6134	1HH1	ARG	B	217	37.096	15.904	-11.189	1.00	0.00
ATOM	6135	2HH1	ARG	B	217	36.789	14.295	-11.811	1.00	0.00
ATOM	6136	1HH2	ARG	B	217	40.169	13.659	-12.519	1.00	0.00
ATOM	6137	2HH2	ARG	B	217	38.540	13.013	-12.569	1.00	0.00
ATOM	6138	N	ASN	B	218	40.990	19.333	-6.841	1.00	0.00
ATOM	6139	CA	ASN	B	218	40.566	20.608	-6.281	1.00	0.00
ATOM	6140	C	ASN	B	218	41.725	21.518	-5.980	1.00	0.00
ATOM	6141	O	ASN	B	218	41.751	22.631	-6.470	1.00	0.00
ATOM	6142	CB	ASN	B	218	39.734	20.411	-5.028	1.00	0.00
ATOM	6143	CG	ASN	B	218	38.336	19.929	-5.299	1.00	0.00
ATOM	6144	OD1	ASN	B	218	37.528	20.625	-5.925	1.00	0.00
ATOM	6145	ND2	ASN	B	218	38.021	18.778	-4.762	1.00	0.00
ATOM	6146	H	ASN	B	218	40.849	18.476	-6.346	1.00	0.00
ATOM	6147	HA	ASN	B	218	39.950	21.143	-7.005	1.00	0.00
ATOM	6148	1HB	ASN	B	218	40.137	19.874	-4.168	1.00	0.00
ATOM	6149	2HB	ASN	B	218	39.700	21.478	-4.806	1.00	0.00
ATOM	6150	1HD2	ASN	B	218	37.107	18.395	-4.901	1.00	0.00
ATOM	6151	2HD2	ASN	B	218	38.693	18.282	-4.213	1.00	0.00
ATOM	6152	N	LEU	B	219	42.712	20.998	-5.230	1.00	0.00
ATOM	6153	CA	LEU	B	219	43.920	21.786	-4.952	1.00	0.00
ATOM	6154	C	LEU	B	219	44.533	22.438	-6.180	1.00	0.00
ATOM	6155	O	LEU	B	219	44.677	23.650	-6.270	1.00	0.00
ATOM	6156	CB	LEU	B	219	44.969	20.898	-4.270	1.00	0.00
ATOM	6157	CG	LEU	B	219	44.659	20.522	-2.816	1.00	0.00
ATOM	6158	CD1	LEU	B	219	45.646	19.470	-2.327	1.00	0.00
ATOM	6159	CD2	LEU	B	219	44.722	21.767	-1.944	1.00	0.00
ATOM	6160	H	LEU	B	219	42.604	20.084	-4.842	1.00	0.00
ATOM	6161	HA	LEU	B	219	43.670	22.617	-4.292	1.00	0.00
ATOM	6162	1HB	LEU	B	219	44.896	20.018	-4.908	1.00	0.00
ATOM	6163	2HB	LEU	B	219	45.970	21.322	-4.349	1.00	0.00
ATOM	6164	HG	LEU	B	219	43.636	20.147	-2.789	1.00	0.00
ATOM	6165	1HD1	LEU	B	219	45.419	19.209	-1.294	1.00	0.00
ATOM	6166	2HD1	LEU	B	219	45.568	18.580	-2.951	1.00	0.00
ATOM	6167	3HD1	LEU	B	219	46.659	19.868	-2.386	1.00	0.00
ATOM	6168	1HD2	LEU	B	219	44.501	21.498	-0.910	1.00	0.00
ATOM	6169	2HD2	LEU	B	219	45.719	22.202	-2.001	1.00	0.00

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ATOM	6170	3HD2	LEU	B	219	43.988	22.494	-2.293	1.00	0.00
ATOM	6171	N	TYR	B	220	44.813	21.580	-7.179	1.00	0.00
ATOM	6172	CA	TYR	B	220	45.346	22.134	-8.426	1.00	0.00
ATOM	6173	C	TYR	B	220	44.519	23.263	-9.029	1.00	0.00
ATOM	6174	O	TYR	B	220	45.047	24.219	-9.582	1.00	0.00
ATOM	6175	CB	TYR	B	220	45.608	21.033	-9.465	1.00	0.00
ATOM	6176	CG	TYR	B	220	46.284	21.624	-10.687	1.00	0.00
ATOM	6177	CD1	TYR	B	220	47.672	21.864	-10.659	1.00	0.00
ATOM	6178	CD2	TYR	B	220	45.499	21.947	-11.814	1.00	0.00
ATOM	6179	CE1	TYR	B	220	48.291	22.439	-11.781	1.00	0.00
ATOM	6180	CE2	TYR	B	220	46.115	22.533	-12.930	1.00	0.00
ATOM	6181	CZ	TYR	B	220	47.507	22.749	-12.910	1.00	0.00
ATOM	6182	OH	TYR	B	220	48.116	23.264	-14.041	1.00	0.00
ATOM	6183	H	TYR	B	220	44.675	20.597	-7.043	1.00	0.00
ATOM	6184	HA	TYR	B	220	46.323	22.582	-8.244	1.00	0.00
ATOM	6185	1HB	TYR	B	220	46.238	20.282	-8.987	1.00	0.00
ATOM	6186	2HB	TYR	B	220	44.644	20.592	-9.717	1.00	0.00
ATOM	6187	HD1	TYR	B	220	48.234	21.597	-9.764	1.00	0.00
ATOM	6188	HD2	TYR	B	220	44.431	21.734	-11.789	1.00	0.00
ATOM	6189	HE1	TYR	B	220	49.363	22.633	-11.780	1.00	0.00
ATOM	6190	HE2	TYR	B	220	45.517	22.816	-13.796	1.00	0.00
ATOM	6191	HH	TYR	B	220	48.885	22.714	-14.234	1.00	0.00
ATOM	6192	N	ARG	B	221	43.194	23.112	-8.895	1.00	0.00
ATOM	6193	CA	ARG	B	221	42.354	24.240	-9.283	1.00	0.00
ATOM	6194	C	ARG	B	221	42.564	25.474	-8.404	1.00	0.00
ATOM	6195	O	ARG	B	221	42.808	26.578	-8.882	1.00	0.00
ATOM	6196	CB	ARG	B	221	40.885	23.848	-9.334	1.00	0.00
ATOM	6197	CG	ARG	B	221	40.508	22.929	-10.485	1.00	0.00
ATOM	6198	CD	ARG	B	221	39.075	22.537	-10.511	1.00	0.00
ATOM	6199	NE	ARG	B	221	38.726	21.599	-11.566	1.00	0.00
ATOM	6200	CZ	ARG	B	221	38.503	21.941	-12.850	1.00	0.00
ATOM	6201	NH1	ARG	B	221	38.554	23.197	-13.236	1.00	0.00
ATOM	6202	NH2	ARG	B	221	38.208	20.981	-13.710	1.00	0.00
ATOM	6203	H	ARG	B	221	42.816	22.322	-8.408	1.00	0.00
ATOM	6204	HA	ARG	B	221	42.610	24.560	-10.294	1.00	0.00
ATOM	6205	1HB	ARG	B	221	40.654	23.357	-8.391	1.00	0.00
ATOM	6206	2HB	ARG	B	221	40.313	24.773	-9.412	1.00	0.00
ATOM	6207	1HG	ARG	B	221	40.734	23.436	-11.423	1.00	0.00
ATOM	6208	2HG	ARG	B	221	41.105	22.019	-10.411	1.00	0.00
ATOM	6209	1HD	ARG	B	221	38.819	22.069	-9.561	1.00	0.00
ATOM	6210	2HD	ARG	B	221	38.466	23.429	-10.652	1.00	0.00
ATOM	6211	HE	ARG	B	221	38.600	20.597	-11.522	1.00	0.00
ATOM	6212	1HH1	ARG	B	221	38.763	23.921	-12.563	1.00	0.00
ATOM	6213	2HH1	ARG	B	221	38.383	23.432	-14.203	1.00	0.00
ATOM	6214	1HH2	ARG	B	221	38.155	20.023	-13.393	1.00	0.00
ATOM	6215	2HH2	ARG	B	221	38.035	21.210	-14.677	1.00	0.00
ATOM	6216	N	LEU	B	222	42.445	25.233	-7.093	1.00	0.00
ATOM	6217	CA	LEU	B	222	42.431	26.308	-6.104	1.00	0.00
ATOM	6218	C	LEU	B	222	43.663	27.184	-6.174	1.00	0.00
ATOM	6219	O	LEU	B	222	43.599	28.364	-6.504	1.00	0.00
ATOM	6220	CB	LEU	B	222	42.292	25.721	-4.694	1.00	0.00
ATOM	6221	CG	LEU	B	222	41.001	24.932	-4.440	1.00	0.00
ATOM	6222	CD1	LEU	B	222	41.160	24.053	-3.207	1.00	0.00
ATOM	6223	CD2	LEU	B	222	39.839	25.899	-4.266	1.00	0.00
ATOM	6224	H	LEU	B	222	42.450	24.284	-6.788	1.00	0.00
ATOM	6225	HA	LEU	B	222	41.589	26.971	-6.298	1.00	0.00
ATOM	6226	1HB	LEU	B	222	43.147	25.047	-4.697	1.00	0.00
ATOM	6227	2HB	LEU	B	222	42.431	26.480	-3.924	1.00	0.00
ATOM	6228	HG	LEU	B	222	40.806	24.334	-5.330	1.00	0.00
ATOM	6229	1HD1	LEU	B	222	40.239	23.496	-3.035	1.00	0.00
ATOM	6230	2HD1	LEU	B	222	41.982	23.353	-3.362	1.00	0.00
ATOM	6231	3HD1	LEU	B	222	41.374	24.677	-2.340	1.00	0.00
ATOM	6232	1HD2	LEU	B	222	38.922	25.336	-4.087	1.00	0.00

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ATOM	6233	2HD2	LEU	B	222	40.035	26.555	-3.418	1.00	0.00
ATOM	6234	3HD2	LEU	B	222	39.725	26.498	-5.170	1.00	0.00
ATOM	6235	N	SER	B	223	44.795	26.536	-5.873	1.00	0.00
ATOM	6236	CA	SER	B	223	46.054	27.263	-5.757	1.00	0.00
ATOM	6237	C	SER	B	223	46.495	27.947	-7.037	1.00	0.00
ATOM	6238	O	SER	B	223	47.058	29.038	-7.032	1.00	0.00
ATOM	6239	CB	SER	B	223	47.141	26.315	-5.288	1.00	0.00
ATOM	6240	OG	SER	B	223	48.303	26.996	-4.901	1.00	0.00
ATOM	6241	H	SER	B	223	44.822	25.561	-5.627	1.00	0.00
ATOM	6242	HA	SER	B	223	46.051	28.010	-4.962	1.00	0.00
ATOM	6243	1HB	SER	B	223	46.764	25.746	-4.438	1.00	0.00
ATOM	6244	2HB	SER	B	223	47.384	25.633	-6.101	1.00	0.00
ATOM	6245	HG	SER	B	223	48.188	27.345	-4.014	1.00	0.00
ATOM	6246	N	LYS	B	224	46.150	27.288	-8.168	1.00	0.00
ATOM	6247	CA	LYS	B	224	46.515	27.844	-9.476	1.00	0.00
ATOM	6248	C	LYS	B	224	46.110	29.286	-9.728	1.00	0.00
ATOM	6249	O	LYS	B	224	46.729	30.001	-10.504	1.00	0.00
ATOM	6250	CB	LYS	B	224	45.920	26.969	-10.580	1.00	0.00
ATOM	6251	CG	LYS	B	224	46.270	27.416	-11.994	1.00	0.00
ATOM	6252	CD	LYS	B	224	45.711	26.455	-13.032	1.00	0.00
ATOM	6253	CE	LYS	B	224	46.070	26.895	-14.445	1.00	0.00
ATOM	6254	NZ	LYS	B	224	45.567	25.939	-15.469	1.00	0.00
ATOM	6255	H	LYS	B	224	45.672	26.411	-8.087	1.00	0.00
ATOM	6256	HA	LYS	B	224	47.601	27.862	-9.578	1.00	0.00
ATOM	6257	1HB	LYS	B	224	46.289	25.956	-10.419	1.00	0.00
ATOM	6258	2HB	LYS	B	224	44.838	26.985	-10.453	1.00	0.00
ATOM	6259	1HG	LYS	B	224	45.852	28.410	-12.156	1.00	0.00
ATOM	6260	2HG	LYS	B	224	47.356	27.459	-12.085	1.00	0.00
ATOM	6261	1HD	LYS	B	224	46.124	25.463	-12.844	1.00	0.00
ATOM	6262	2HD	LYS	B	224	44.627	26.422	-12.927	1.00	0.00
ATOM	6263	1HE	LYS	B	224	45.631	27.876	-14.618	1.00	0.00
ATOM	6264	2HE	LYS	B	224	47.155	26.964	-14.515	1.00	0.00
ATOM	6265	1HZ	LYS	B	224	45.825	26.267	-16.389	1.00	0.00
ATOM	6266	2HZ	LYS	B	224	45.974	25.029	-15.310	1.00	0.00
ATOM	6267	3HZ	LYS	B	224	44.561	25.875	-15.404	1.00	0.00
ATOM	6268	N	ALA	B	225	45.068	29.686	-8.981	1.00	0.00
ATOM	6269	CA	ALA	B	225	44.694	31.093	-8.835	1.00	0.00
ATOM	6270	C	ALA	B	225	45.833	32.103	-8.855	1.00	0.00
ATOM	6271	O	ALA	B	225	45.790	33.148	-9.495	1.00	0.00
ATOM	6272	CB	ALA	B	225	44.006	31.263	-7.489	1.00	0.00
ATOM	6273	H	ALA	B	225	44.583	28.997	-8.437	1.00	0.00
ATOM	6274	HA	ALA	B	225	44.070	31.378	-9.683	1.00	0.00
ATOM	6275	1HB	ALA	B	225	43.718	32.307	-7.358	1.00	0.00
ATOM	6276	2HB	ALA	B	225	43.117	30.634	-7.452	1.00	0.00
ATOM	6277	3HB	ALA	B	225	44.689	30.973	-6.693	1.00	0.00
ATOM	6278	N	LEU	B	226	46.844	31.743	-8.051	1.00	0.00
ATOM	6279	CA	LEU	B	226	47.964	32.648	-7.824	1.00	0.00
ATOM	6280	C	LEU	B	226	49.295	31.938	-7.695	1.00	0.00
ATOM	6281	O	LEU	B	226	50.314	32.389	-8.196	1.00	0.00
ATOM	6282	CB	LEU	B	226	47.703	33.488	-6.567	1.00	0.00
ATOM	6283	CG	LEU	B	226	46.633	34.577	-6.719	1.00	0.00
ATOM	6284	CD1	LEU	B	226	46.328	35.202	-5.364	1.00	0.00
ATOM	6285	CD2	LEU	B	226	47.118	35.632	-7.702	1.00	0.00
ATOM	6286	H	LEU	B	226	46.796	30.847	-7.611	1.00	0.00
ATOM	6287	HA	LEU	B	226	48.076	33.312	-8.680	1.00	0.00
ATOM	6288	1HB	LEU	B	226	47.346	32.704	-5.901	1.00	0.00
ATOM	6289	2HB	LEU	B	226	48.624	33.913	-6.167	1.00	0.00
ATOM	6290	HG	LEU	B	226	45.748	34.104	-7.146	1.00	0.00
ATOM	6291	1HD1	LEU	B	226	45.567	35.973	-5.482	1.00	0.00
ATOM	6292	2HD1	LEU	B	226	45.961	34.433	-4.684	1.00	0.00
ATOM	6293	3HD1	LEU	B	226	47.234	35.646	-4.956	1.00	0.00
ATOM	6294	1HD2	LEU	B	226	46.356	36.405	-7.810	1.00	0.00
ATOM	6295	2HD2	LEU	B	226	48.040	36.079	-7.332	1.00	0.00

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ATOM	6296	3HD2	LEU	B	226	47.303	35.168	-8.672	1.00	0.00
ATOM	6297	N	PHE	B	227	49.234	30.788	-7.012	1.00	0.00
ATOM	6298	CA	PHE	B	227	50.407	29.919	-6.992	1.00	0.00
ATOM	6299	C	PHE	B	227	50.088	28.602	-7.676	1.00	0.00
ATOM	6300	O	PHE	B	227	49.590	27.664	-7.066	1.00	0.00
ATOM	6301	CB	PHE	B	227	50.880	29.673	-5.558	1.00	0.00
ATOM	6302	CG	PHE	B	227	51.483	30.883	-4.903	1.00	0.00
ATOM	6303	CD1	PHE	B	227	50.676	31.894	-4.404	1.00	0.00
ATOM	6304	CD2	PHE	B	227	52.859	31.013	-4.784	1.00	0.00
ATOM	6305	CE1	PHE	B	227	51.229	33.008	-3.801	1.00	0.00
ATOM	6306	CE2	PHE	B	227	53.415	32.124	-4.181	1.00	0.00
ATOM	6307	CZ	PHE	B	227	52.599	33.123	-3.689	1.00	0.00
ATOM	6308	H	PHE	B	227	48.382	30.443	-6.618	1.00	0.00
ATOM	6309	HA	PHE	B	227	51.222	30.386	-7.548	1.00	0.00
ATOM	6310	1HB	PHE	B	227	50.043	29.366	-4.934	1.00	0.00
ATOM	6311	2HB	PHE	B	227	51.646	28.898	-5.544	1.00	0.00
ATOM	6312	HD1	PHE	B	227	49.593	31.803	-4.491	1.00	0.00
ATOM	6313	HD2	PHE	B	227	53.504	30.224	-5.173	1.00	0.00
ATOM	6314	HE1	PHE	B	227	50.583	33.795	-3.414	1.00	0.00
ATOM	6315	HE2	PHE	B	227	54.497	32.214	-4.094	1.00	0.00
ATOM	6316	HZ	PHE	B	227	53.036	34.001	-3.215	1.00	0.00
ATOM	6317	N	PRO	B	228	50.373	28.545	-8.997	1.00	0.00
ATOM	6318	CA	PRO	B	228	50.155	27.287	-9.722	1.00	0.00
ATOM	6319	C	PRO	B	228	50.991	26.157	-9.146	1.00	0.00
ATOM	6320	O	PRO	B	228	52.212	26.235	-9.165	1.00	0.00
ATOM	6321	CB	PRO	B	228	50.582	27.645	-11.152	1.00	0.00
ATOM	6322	CG	PRO	B	228	50.486	29.166	-11.247	1.00	0.00
ATOM	6323	CD	PRO	B	228	50.890	29.608	-9.849	1.00	0.00
ATOM	6324	HA	PRO	B	228	49.117	26.931	-9.654	1.00	0.00
ATOM	6325	1HB	PRO	B	228	51.609	27.310	-11.362	1.00	0.00
ATOM	6326	2HB	PRO	B	228	49.928	27.170	-11.899	1.00	0.00
ATOM	6327	1HG	PRO	B	228	51.159	29.560	-12.025	1.00	0.00
ATOM	6328	2HG	PRO	B	228	49.468	29.485	-11.512	1.00	0.00
ATOM	6329	1HD	PRO	B	228	51.981	29.706	-9.742	1.00	0.00
ATOM	6330	2HD	PRO	B	228	50.453	30.581	-9.577	1.00	0.00
ATOM	6331	N	PRO	B	229	50.296	25.105	-8.637	1.00	0.00
ATOM	6332	CA	PRO	B	229	50.997	24.004	-7.967	1.00	0.00
ATOM	6333	C	PRO	B	229	52.205	23.504	-8.730	1.00	0.00
ATOM	6334	O	PRO	B	229	52.114	23.016	-9.853	1.00	0.00
ATOM	6335	CB	PRO	B	229	49.928	22.914	-7.838	1.00	0.00
ATOM	6336	CG	PRO	B	229	48.645	23.665	-7.731	1.00	0.00
ATOM	6337	CD	PRO	B	229	48.838	24.906	-8.560	1.00	0.00
ATOM	6338	HA	PRO	B	229	51.411	24.295	-6.990	1.00	0.00
ATOM	6339	1HB	PRO	B	229	49.927	22.245	-8.712	1.00	0.00
ATOM	6340	2HB	PRO	B	229	50.098	22.286	-6.951	1.00	0.00
ATOM	6341	1HG	PRO	B	229	47.801	23.066	-8.106	1.00	0.00
ATOM	6342	2HG	PRO	B	229	48.419	23.918	-6.684	1.00	0.00
ATOM	6343	1HD	PRO	B	229	48.407	24.806	-9.566	1.00	0.00
ATOM	6344	2HD	PRO	B	229	48.373	25.791	-8.099	1.00	0.00
ATOM	6345	N	GLU	B	230	53.344	23.708	-8.063	1.00	0.00
ATOM	6346	CA	GLU	B	230	54.648	23.631	-8.712	1.00	0.00
ATOM	6347	C	GLU	B	230	54.851	22.421	-9.609	1.00	0.00
ATOM	6348	O	GLU	B	230	54.489	21.297	-9.277	1.00	0.00
ATOM	6349	CB	GLU	B	230	55.748	23.656	-7.648	1.00	0.00
ATOM	6350	CG	GLU	B	230	57.163	23.600	-8.206	1.00	0.00
ATOM	6351	CD	GLU	B	230	58.186	23.645	-7.105	1.00	0.00
ATOM	6352	OE1	GLU	B	230	57.800	23.744	-5.965	1.00	0.00
ATOM	6353	OE2	GLU	B	230	59.347	23.469	-7.392	1.00	0.00
ATOM	6354	H	GLU	B	230	53.286	24.106	-7.144	1.00	0.00
ATOM	6355	HA	GLU	B	230	54.778	24.482	-9.381	1.00	0.00
ATOM	6356	1HB	GLU	B	230	55.618	24.575	-7.078	1.00	0.00
ATOM	6357	2HB	GLU	B	230	55.580	22.797	-6.997	1.00	0.00
ATOM	6358	1HG	GLU	B	230	57.347	22.730	-8.835	1.00	0.00

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ATOM	6359	2HG	GLU	B	230	57.237	24.505	-8.807	1.00	0.00
ATOM	6360	N	PRO	B	231	55.499	22.677	-10.771	1.00	0.00
ATOM	6361	CA	PRO	B	231	55.824	21.606	-11.727	1.00	0.00
ATOM	6362	C	PRO	B	231	56.574	20.369	-11.225	1.00	0.00
ATOM	6363	O	PRO	B	231	56.813	19.441	-11.993	1.00	0.00
ATOM	6364	CB	PRO	B	231	56.597	22.345	-12.824	1.00	0.00
ATOM	6365	CG	PRO	B	231	56.089	23.782	-12.763	1.00	0.00
ATOM	6366	CD	PRO	B	231	55.886	23.995	-11.269	1.00	0.00
ATOM	6367	HA	PRO	B	231	54.928	21.130	-12.153	1.00	0.00
ATOM	6368	1HB	PRO	B	231	57.683	22.303	-12.651	1.00	0.00
ATOM	6369	2HB	PRO	B	231	56.411	21.904	-13.815	1.00	0.00
ATOM	6370	1HG	PRO	B	231	56.822	24.482	-13.192	1.00	0.00
ATOM	6371	2HG	PRO	B	231	55.158	23.900	-13.336	1.00	0.00
ATOM	6372	1HD	PRO	B	231	56.801	24.347	-10.771	1.00	0.00
ATOM	6373	2HD	PRO	B	231	55.101	24.736	-11.058	1.00	0.00
ATOM	6374	N	LEU	B	232	56.953	20.377	-9.936	1.00	0.00
ATOM	6375	CA	LEU	B	232	57.319	19.112	-9.303	1.00	0.00
ATOM	6376	C	LEU	B	232	56.135	18.468	-8.599	1.00	0.00
ATOM	6377	O	LEU	B	232	55.761	17.338	-8.885	1.00	0.00
ATOM	6378	CB	LEU	B	232	58.490	19.306	-8.338	1.00	0.00
ATOM	6379	CG	LEU	B	232	59.769	19.768	-9.038	1.00	0.00
ATOM	6380	CD1	LEU	B	232	60.872	20.094	-8.032	1.00	0.00
ATOM	6381	CD2	LEU	B	232	60.238	18.771	-10.101	1.00	0.00
ATOM	6382	H	LEU	B	232	56.786	21.183	-9.377	1.00	0.00
ATOM	6383	HA	LEU	B	232	57.641	18.402	-10.064	1.00	0.00
ATOM	6384	1HB	LEU	B	232	58.078	20.100	-7.717	1.00	0.00
ATOM	6385	2HB	LEU	B	232	58.660	18.419	-7.727	1.00	0.00
ATOM	6386	HG	LEU	B	232	59.534	20.695	-9.562	1.00	0.00
ATOM	6387	1HD1	LEU	B	232	61.766	20.419	-8.564	1.00	0.00
ATOM	6388	2HD1	LEU	B	232	60.536	20.892	-7.369	1.00	0.00
ATOM	6389	3HD1	LEU	B	232	61.103	19.206	-7.445	1.00	0.00
ATOM	6390	1HD2	LEU	B	232	61.149	19.143	-10.571	1.00	0.00
ATOM	6391	2HD2	LEU	B	232	60.439	17.807	-9.633	1.00	0.00
ATOM	6392	3HD2	LEU	B	232	59.462	18.653	-10.857	1.00	0.00
ATOM	6393	N	VAL	B	233	55.526	19.271	-7.704	1.00	0.00
ATOM	6394	CA	VAL	B	233	54.328	18.857	-6.958	1.00	0.00
ATOM	6395	C	VAL	B	233	53.286	18.141	-7.812	1.00	0.00
ATOM	6396	O	VAL	B	233	52.778	17.081	-7.471	1.00	0.00
ATOM	6397	CB	VAL	B	233	53.652	20.068	-6.288	1.00	0.00
ATOM	6398	CG1	VAL	B	233	52.323	19.661	-5.669	1.00	0.00
ATOM	6399	CG2	VAL	B	233	54.565	20.674	-5.233	1.00	0.00
ATOM	6400	H	VAL	B	233	55.873	20.197	-7.573	1.00	0.00
ATOM	6401	HA	VAL	B	233	54.572	18.120	-6.192	1.00	0.00
ATOM	6402	HB	VAL	B	233	53.481	20.839	-7.039	1.00	0.00
ATOM	6403	1HG1	VAL	B	233	51.858	20.528	-5.200	1.00	0.00
ATOM	6404	2HG1	VAL	B	233	51.664	19.272	-6.445	1.00	0.00
ATOM	6405	3HG1	VAL	B	233	52.493	18.890	-4.917	1.00	0.00
ATOM	6406	1HG2	VAL	B	233	54.072	21.528	-4.769	1.00	0.00
ATOM	6407	2HG2	VAL	B	233	54.786	19.925	-4.471	1.00	0.00
ATOM	6408	3HG2	VAL	B	233	55.494	21.000	-5.701	1.00	0.00
ATOM	6409	N	LEU	B	234	53.039	18.740	-8.987	1.00	0.00
ATOM	6410	CA	LEU	B	234	52.160	18.119	-9.983	1.00	0.00
ATOM	6411	C	LEU	B	234	52.319	16.619	-10.212	1.00	0.00
ATOM	6412	O	LEU	B	234	51.361	15.861	-10.301	1.00	0.00
ATOM	6413	CB	LEU	B	234	52.314	18.869	-11.301	1.00	0.00
ATOM	6414	CG	LEU	B	234	51.249	19.947	-11.444	1.00	0.00
ATOM	6415	CD1	LEU	B	234	51.628	21.003	-12.480	1.00	0.00
ATOM	6416	CD2	LEU	B	234	49.889	19.309	-11.718	1.00	0.00
ATOM	6417	H	LEU	B	234	53.419	19.655	-9.127	1.00	0.00
ATOM	6418	HA	LEU	B	234	51.123	18.206	-9.659	1.00	0.00
ATOM	6419	1HB	LEU	B	234	53.301	19.301	-11.145	1.00	0.00
ATOM	6420	2HB	LEU	B	234	52.346	18.188	-12.151	1.00	0.00
ATOM	6421	HG	LEU	B	234	51.182	20.466	-10.488	1.00	0.00

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ATOM	6422	1HD1	LEU	B	234	50.837	21.751	-12.545	1.00	0.00
ATOM	6423	2HD1	LEU	B	234	52.558	21.488	-12.182	1.00	0.00
ATOM	6424	3HD1	LEU	B	234	51.760	20.530	-13.451	1.00	0.00
ATOM	6425	1HD2	LEU	B	234	49.135	20.090	-11.819	1.00	0.00
ATOM	6426	2HD2	LEU	B	234	49.937	18.730	-12.641	1.00	0.00
ATOM	6427	3HD2	LEU	B	234	49.621	18.651	-10.891	1.00	0.00
ATOM	6428	N	ARG	B	235	53.595	16.221	-10.304	1.00	0.00
ATOM	6429	CA	ARG	B	235	53.880	14.804	-10.531	1.00	0.00
ATOM	6430	C	ARG	B	235	53.551	13.946	-9.329	1.00	0.00
ATOM	6431	O	ARG	B	235	52.990	12.861	-9.436	1.00	0.00
ATOM	6432	CB	ARG	B	235	55.315	14.577	-10.982	1.00	0.00
ATOM	6433	CG	ARG	B	235	55.624	15.049	-12.395	1.00	0.00
ATOM	6434	CD	ARG	B	235	57.045	14.890	-12.796	1.00	0.00
ATOM	6435	NE	ARG	B	235	57.345	15.344	-14.144	1.00	0.00
ATOM	6436	CZ	ARG	B	235	58.577	15.366	-14.688	1.00	0.00
ATOM	6437	NH1	ARG	B	235	59.631	14.995	-13.994	1.00	0.00
ATOM	6438	NH2	ARG	B	235	58.704	15.792	-15.933	1.00	0.00
ATOM	6439	H	ARG	B	235	54.318	16.867	-10.062	1.00	0.00
ATOM	6440	HA	ARG	B	235	53.257	14.428	-11.343	1.00	0.00
ATOM	6441	1HB	ARG	B	235	55.957	15.106	-10.278	1.00	0.00
ATOM	6442	2HB	ARG	B	235	55.505	13.507	-10.912	1.00	0.00
ATOM	6443	1HG	ARG	B	235	55.012	14.478	-13.093	1.00	0.00
ATOM	6444	2HG	ARG	B	235	55.371	16.107	-12.470	1.00	0.00
ATOM	6445	1HD	ARG	B	235	57.673	15.459	-12.112	1.00	0.00
ATOM	6446	2HD	ARG	B	235	57.312	13.834	-12.740	1.00	0.00
ATOM	6447	HE	ARG	B	235	56.723	15.700	-14.858	1.00	0.00
ATOM	6448	1HH1	ARG	B	235	59.520	14.688	-13.038	1.00	0.00
ATOM	6449	2HH1	ARG	B	235	60.546	15.018	-14.420	1.00	0.00
ATOM	6450	1HH2	ARG	B	235	57.886	16.090	-16.446	1.00	0.00
ATOM	6451	2HH2	ARG	B	235	59.616	15.818	-16.364	1.00	0.00
ATOM	6452	N	GLU	B	236	53.895	14.509	-8.166	1.00	0.00
ATOM	6453	CA	GLU	B	236	53.626	13.784	-6.926	1.00	0.00
ATOM	6454	C	GLU	B	236	52.146	13.550	-6.687	1.00	0.00
ATOM	6455	O	GLU	B	236	51.703	12.463	-6.328	1.00	0.00
ATOM	6456	CB	GLU	B	236	54.224	14.538	-5.736	1.00	0.00
ATOM	6457	CG	GLU	B	236	55.744	14.507	-5.671	1.00	0.00
ATOM	6458	CD	GLU	B	236	56.259	13.097	-5.591	1.00	0.00
ATOM	6459	OE1	GLU	B	236	55.813	12.369	-4.737	1.00	0.00
ATOM	6460	OE2	GLU	B	236	57.013	12.711	-6.453	1.00	0.00
ATOM	6461	H	GLU	B	236	54.347	15.402	-8.154	1.00	0.00
ATOM	6462	HA	GLU	B	236	54.074	12.791	-6.974	1.00	0.00
ATOM	6463	1HB	GLU	B	236	53.885	15.572	-5.812	1.00	0.00
ATOM	6464	2HB	GLU	B	236	53.813	14.086	-4.833	1.00	0.00
ATOM	6465	1HG	GLU	B	236	56.224	15.022	-6.503	1.00	0.00
ATOM	6466	2HG	GLU	B	236	55.972	15.029	-4.743	1.00	0.00
ATOM	6467	N	MET	B	237	51.386	14.614	-6.996	1.00	0.00
ATOM	6468	CA	MET	B	237	49.931	14.490	-7.066	1.00	0.00
ATOM	6469	C	MET	B	237	49.481	13.399	-8.023	1.00	0.00
ATOM	6470	O	MET	B	237	48.723	12.502	-7.678	1.00	0.00
ATOM	6471	CB	MET	B	237	49.315	15.825	-7.480	1.00	0.00
ATOM	6472	CG	MET	B	237	49.500	16.945	-6.466	1.00	0.00
ATOM	6473	SD	MET	B	237	48.384	18.333	-6.752	1.00	0.00
ATOM	6474	CE	MET	B	237	49.087	19.031	-8.243	1.00	0.00
ATOM	6475	H	MET	B	237	51.848	15.477	-7.197	1.00	0.00
ATOM	6476	HA	MET	B	237	49.535	14.208	-6.091	1.00	0.00
ATOM	6477	1HB	MET	B	237	49.778	16.109	-8.424	1.00	0.00
ATOM	6478	2HB	MET	B	237	48.250	15.649	-7.635	1.00	0.00
ATOM	6479	1HG	MET	B	237	49.317	16.538	-5.472	1.00	0.00
ATOM	6480	2HG	MET	B	237	50.530	17.295	-6.531	1.00	0.00
ATOM	6481	1HE	MET	B	237	48.505	19.902	-8.548	1.00	0.00
ATOM	6482	2HE	MET	B	237	50.118	19.332	-8.053	1.00	0.00
ATOM	6483	3HE	MET	B	237	49.067	18.285	-9.038	1.00	0.00
ATOM	6484	N	CYS	B	238	50.018	13.499	-9.252	1.00	0.00

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ATOM	6485	CA	CYS	B	238	49.657	12.534	-10.293	1.00	0.00
ATOM	6486	C	CYS	B	238	49.773	11.074	-9.879	1.00	0.00
ATOM	6487	O	CYS	B	238	48.901	10.250	-10.134	1.00	0.00
ATOM	6488	CB	CYS	B	238	50.445	12.818	-11.574	1.00	0.00
ATOM	6489	SG	CYS	B	238	49.823	11.958	-13.043	1.00	0.00
ATOM	6490	H	CYS	B	238	50.618	14.273	-9.459	1.00	0.00
ATOM	6491	HA	CYS	B	238	48.653	12.683	-10.692	1.00	0.00
ATOM	6492	1HB	CYS	B	238	50.412	13.882	-11.810	1.00	0.00
ATOM	6493	2HB	CYS	B	238	51.482	12.504	-11.456	1.00	0.00
ATOM	6494	HG	CYS	B	238	50.730	12.447	-13.884	1.00	0.00
ATOM	6495	N	LYS	B	239	50.878	10.810	-9.158	1.00	0.00
ATOM	6496	CA	LYS	B	239	51.114	9.468	-8.622	1.00	0.00
ATOM	6497	C	LYS	B	239	49.977	8.878	-7.803	1.00	0.00
ATOM	6498	O	LYS	B	239	49.727	7.680	-7.829	1.00	0.00
ATOM	6499	CB	LYS	B	239	52.383	9.478	-7.769	1.00	0.00
ATOM	6500	CG	LYS	B	239	53.674	9.635	-8.563	1.00	0.00
ATOM	6501	CD	LYS	B	239	54.890	9.628	-7.649	1.00	0.00
ATOM	6502	CE	LYS	B	239	56.178	9.809	-8.439	1.00	0.00
ATOM	6503	NZ	LYS	B	239	57.374	9.829	-7.555	1.00	0.00
ATOM	6504	H	LYS	B	239	51.537	11.550	-9.008	1.00	0.00
ATOM	6505	HA	LYS	B	239	51.239	8.760	-9.442	1.00	0.00
ATOM	6506	1HB	LYS	B	239	52.288	10.304	-7.064	1.00	0.00
ATOM	6507	2HB	LYS	B	239	52.408	8.535	-7.222	1.00	0.00
ATOM	6508	1HG	LYS	B	239	53.747	8.810	-9.273	1.00	0.00
ATOM	6509	2HG	LYS	B	239	53.633	10.579	-9.106	1.00	0.00
ATOM	6510	1HD	LYS	B	239	54.787	10.441	-6.928	1.00	0.00
ATOM	6511	2HD	LYS	B	239	54.920	8.676	-7.119	1.00	0.00
ATOM	6512	1HE	LYS	B	239	56.263	8.986	-9.147	1.00	0.00
ATOM	6513	2HE	LYS	B	239	56.115	10.751	-8.984	1.00	0.00
ATOM	6514	1HZ	LYS	B	239	58.206	9.950	-8.116	1.00	0.00
ATOM	6515	2HZ	LYS	B	239	57.296	10.592	-6.898	1.00	0.00
ATOM	6516	3HZ	LYS	B	239	57.435	8.956	-7.049	1.00	0.00
ATOM	6517	N	GLN	B	240	49.275	9.769	-7.086	1.00	0.00
ATOM	6518	CA	GLN	B	240	48.170	9.286	-6.257	1.00	0.00
ATOM	6519	C	GLN	B	240	46.864	9.102	-7.024	1.00	0.00
ATOM	6520	O	GLN	B	240	45.806	9.608	-6.667	1.00	0.00
ATOM	6521	CB	GLN	B	240	47.934	10.251	-5.092	1.00	0.00
ATOM	6522	CG	GLN	B	240	49.108	10.373	-4.136	1.00	0.00
ATOM	6523	CD	GLN	B	240	49.423	9.064	-3.436	1.00	0.00
ATOM	6524	OE1	GLN	B	240	48.522	8.365	-2.963	1.00	0.00
ATOM	6525	NE2	GLN	B	240	50.705	8.726	-3.363	1.00	0.00
ATOM	6526	H	GLN	B	240	49.450	10.749	-7.190	1.00	0.00
ATOM	6527	HA	GLN	B	240	48.411	8.296	-5.868	1.00	0.00
ATOM	6528	1HB	GLN	B	240	47.712	11.224	-5.530	1.00	0.00
ATOM	6529	2HB	GLN	B	240	47.058	9.887	-4.554	1.00	0.00
ATOM	6530	1HG	GLN	B	240	50.053	10.836	-4.418	1.00	0.00
ATOM	6531	2HG	GLN	B	240	48.582	11.021	-3.435	1.00	0.00
ATOM	6532	1HE2	GLN	B	240	50.973	7.874	-2.913	1.00	0.00
ATOM	6533	2HE2	GLN	B	240	51.403	9.323	-3.759	1.00	0.00
ATOM	6534	N	GLY	B	241	46.990	8.376	-8.147	1.00	0.00
ATOM	6535	CA	GLY	B	241	45.834	8.187	-9.021	1.00	0.00
ATOM	6536	C	GLY	B	241	45.357	9.431	-9.760	1.00	0.00
ATOM	6537	O	GLY	B	241	44.353	9.418	-10.468	1.00	0.00
ATOM	6538	H	GLY	B	241	47.881	7.970	-8.355	1.00	0.00
ATOM	6539	1HA	GLY	B	241	46.081	7.445	-9.782	1.00	0.00
ATOM	6540	2HA	GLY	B	241	44.993	7.831	-8.428	1.00	0.00
ATOM	6541	N	TYR	B	242	46.108	10.521	-9.576	1.00	0.00
ATOM	6542	CA	TYR	B	242	45.644	11.785	-10.125	1.00	0.00
ATOM	6543	C	TYR	B	242	46.216	12.043	-11.506	1.00	0.00
ATOM	6544	O	TYR	B	242	46.949	12.990	-11.757	1.00	0.00
ATOM	6545	CB	TYR	B	242	45.928	12.897	-9.107	1.00	0.00
ATOM	6546	CG	TYR	B	242	45.460	14.260	-9.566	1.00	0.00
ATOM	6547	CD1	TYR	B	242	44.140	14.429	-10.025	1.00	0.00

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ATOM	6548	CD2	TYR	B	242	46.378	15.328	-9.518	1.00	0.00
ATOM	6549	CE1	TYR	B	242	43.737	15.695	-10.466	1.00	0.00
ATOM	6550	CE2	TYR	B	242	45.971	16.600	-9.952	1.00	0.00
ATOM	6551	CZ	TYR	B	242	44.655	16.763	-10.428	1.00	0.00
ATOM	6552	OH	TYR	B	242	44.244	18.002	-10.872	1.00	0.00
ATOM	6553	H	TYR	B	242	47.016	10.449	-9.160	1.00	0.00
ATOM	6554	HA	TYR	B	242	44.561	11.761	-10.245	1.00	0.00
ATOM	6555	1HB	TYR	B	242	45.419	12.625	-8.182	1.00	0.00
ATOM	6556	2HB	TYR	B	242	47.004	12.914	-8.939	1.00	0.00
ATOM	6557	HD1	TYR	B	242	43.469	13.570	-10.024	1.00	0.00
ATOM	6558	HD2	TYR	B	242	47.384	15.141	-9.146	1.00	0.00
ATOM	6559	HE1	TYR	B	242	42.722	15.856	-10.828	1.00	0.00
ATOM	6560	HE2	TYR	B	242	46.669	17.437	-9.917	1.00	0.00
ATOM	6561	HH	TYR	B	242	44.801	18.669	-10.489	1.00	0.00
ATOM	6562	N	ARG	B	243	45.814	11.142	-12.416	1.00	0.00
ATOM	6563	CA	ARG	B	243	46.341	11.183	-13.787	1.00	0.00
ATOM	6564	C	ARG	B	243	46.229	12.533	-14.487	1.00	0.00
ATOM	6565	O	ARG	B	243	47.068	12.943	-15.279	1.00	0.00
ATOM	6566	CB	ARG	B	243	45.716	10.094	-14.645	1.00	0.00
ATOM	6567	CG	ARG	B	243	46.148	8.678	-14.297	1.00	0.00
ATOM	6568	CD	ARG	B	243	45.509	7.622	-15.123	1.00	0.00
ATOM	6569	NE	ARG	B	243	45.882	6.264	-14.760	1.00	0.00
ATOM	6570	CZ	ARG	B	243	45.338	5.152	-15.293	1.00	0.00
ATOM	6571	NH1	ARG	B	243	44.374	5.230	-16.183	1.00	0.00
ATOM	6572	NH2	ARG	B	243	45.785	3.980	-14.880	1.00	0.00
ATOM	6573	H	ARG	B	243	45.206	10.419	-12.088	1.00	0.00
ATOM	6574	HA	ARG	B	243	47.412	10.978	-13.777	1.00	0.00
ATOM	6575	1HB	ARG	B	243	44.636	10.178	-14.532	1.00	0.00
ATOM	6576	2HB	ARG	B	243	45.990	10.308	-15.679	1.00	0.00
ATOM	6577	1HG	ARG	B	243	47.228	8.602	-14.431	1.00	0.00
ATOM	6578	2HG	ARG	B	243	45.897	8.487	-13.254	1.00	0.00
ATOM	6579	1HD	ARG	B	243	44.427	7.701	-15.022	1.00	0.00
ATOM	6580	2HD	ARG	B	243	45.788	7.770	-16.165	1.00	0.00
ATOM	6581	HE	ARG	B	243	46.568	5.942	-14.090	1.00	0.00
ATOM	6582	1HH1	ARG	B	243	44.031	6.135	-16.476	1.00	0.00
ATOM	6583	2HH1	ARG	B	243	43.979	4.385	-16.570	1.00	0.00
ATOM	6584	1HH2	ARG	B	243	46.515	3.938	-14.182	1.00	0.00
ATOM	6585	2HH2	ARG	B	243	45.395	3.131	-15.262	1.00	0.00
ATOM	6586	N	ASP	B	244	45.149	13.233	-14.113	1.00	0.00
ATOM	6587	CA	ASP	B	244	44.933	14.612	-14.552	1.00	0.00
ATOM	6588	C	ASP	B	244	46.146	15.523	-14.456	1.00	0.00
ATOM	6589	O	ASP	B	244	46.419	16.325	-15.343	1.00	0.00
ATOM	6590	CB	ASP	B	244	43.785	15.230	-13.751	1.00	0.00
ATOM	6591	CG	ASP	B	244	42.404	14.708	-14.124	1.00	0.00
ATOM	6592	OD1	ASP	B	244	42.294	14.046	-15.129	1.00	0.00
ATOM	6593	OD2	ASP	B	244	41.506	14.839	-13.328	1.00	0.00
ATOM	6594	H	ASP	B	244	44.427	12.794	-13.579	1.00	0.00
ATOM	6595	HA	ASP	B	244	44.678	14.626	-15.612	1.00	0.00
ATOM	6596	1HB	ASP	B	244	43.921	15.157	-12.672	1.00	0.00
ATOM	6597	2HB	ASP	B	244	43.875	16.272	-14.060	1.00	0.00
ATOM	6598	N	GLY	B	245	46.881	15.329	-13.348	1.00	0.00
ATOM	6599	CA	GLY	B	245	48.115	16.075	-13.108	1.00	0.00
ATOM	6600	C	GLY	B	245	49.090	16.093	-14.271	1.00	0.00
ATOM	6601	O	GLY	B	245	49.712	17.103	-14.568	1.00	0.00
ATOM	6602	H	GLY	B	245	46.595	14.630	-12.693	1.00	0.00
ATOM	6603	1HA	GLY	B	245	47.866	17.112	-12.883	1.00	0.00
ATOM	6604	2HA	GLY	B	245	48.637	15.636	-12.259	1.00	0.00
ATOM	6605	N	LEU	B	246	49.171	14.937	-14.953	1.00	0.00
ATOM	6606	CA	LEU	B	246	50.042	14.889	-16.125	1.00	0.00
ATOM	6607	C	LEU	B	246	49.668	15.878	-17.223	1.00	0.00
ATOM	6608	O	LEU	B	246	50.510	16.552	-17.798	1.00	0.00
ATOM	6609	CB	LEU	B	246	50.049	13.466	-16.697	1.00	0.00
ATOM	6610	CG	LEU	B	246	50.936	13.263	-17.933	1.00	0.00

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ATOM	6611	CD1	LEU	B	246	52.389	13.560	-17.588	1.00	0.00
ATOM	6612	CD2	LEU	B	246	50.782	11.836	-18.440	1.00	0.00
ATOM	6613	H	LEU	B	246	48.610	14.148	-14.694	1.00	0.00
ATOM	6614	HA	LEU	B	246	51.056	15.167	-15.838	1.00	0.00
ATOM	6615	1HB	LEU	B	246	50.469	12.934	-15.845	1.00	0.00
ATOM	6616	2HB	LEU	B	246	49.039	13.104	-16.890	1.00	0.00
ATOM	6617	HG	LEU	B	246	50.567	13.934	-18.710	1.00	0.00
ATOM	6618	1HD1	LEU	B	246	53.010	13.413	-18.471	1.00	0.00
ATOM	6619	2HD1	LEU	B	246	52.479	14.592	-17.249	1.00	0.00
ATOM	6620	3HD1	LEU	B	246	52.719	12.888	-16.797	1.00	0.00
ATOM	6621	1HD2	LEU	B	246	51.411	11.694	-19.319	1.00	0.00
ATOM	6622	2HD2	LEU	B	246	51.083	11.137	-17.659	1.00	0.00
ATOM	6623	3HD2	LEU	B	246	49.741	11.655	-18.707	1.00	0.00
ATOM	6624	N	ARG	B	247	48.346	15.974	-17.460	1.00	0.00
ATOM	6625	CA	ARG	B	247	47.914	16.998	-18.420	1.00	0.00
ATOM	6626	C	ARG	B	247	48.157	18.407	-17.901	1.00	0.00
ATOM	6627	O	ARG	B	247	48.502	19.343	-18.607	1.00	0.00
ATOM	6628	CB	ARG	B	247	46.464	16.815	-18.840	1.00	0.00
ATOM	6629	CG	ARG	B	247	46.205	15.613	-19.734	1.00	0.00
ATOM	6630	CD	ARG	B	247	44.775	15.401	-20.076	1.00	0.00
ATOM	6631	NE	ARG	B	247	44.521	14.246	-20.922	1.00	0.00
ATOM	6632	CZ	ARG	B	247	43.297	13.812	-21.278	1.00	0.00
ATOM	6633	NH1	ARG	B	247	42.211	14.409	-20.836	1.00	0.00
ATOM	6634	NH2	ARG	B	247	43.214	12.754	-22.066	1.00	0.00
ATOM	6635	H	ARG	B	247	47.711	15.475	-16.871	1.00	0.00
ATOM	6636	HA	ARG	B	247	48.495	16.911	-19.339	1.00	0.00
ATOM	6637	1HB	ARG	B	247	45.879	16.717	-17.927	1.00	0.00
ATOM	6638	2HB	ARG	B	247	46.167	17.723	-19.365	1.00	0.00
ATOM	6639	1HG	ARG	B	247	46.755	15.748	-20.666	1.00	0.00
ATOM	6640	2HG	ARG	B	247	46.565	14.719	-19.226	1.00	0.00
ATOM	6641	1HD	ARG	B	247	44.208	15.262	-19.155	1.00	0.00
ATOM	6642	2HD	ARG	B	247	44.402	16.279	-20.602	1.00	0.00
ATOM	6643	HE	ARG	B	247	45.176	13.611	-21.359	1.00	0.00
ATOM	6644	1HH1	ARG	B	247	42.292	15.206	-20.220	1.00	0.00
ATOM	6645	2HH1	ARG	B	247	41.303	14.068	-21.116	1.00	0.00
ATOM	6646	1HH2	ARG	B	247	44.058	12.297	-22.382	1.00	0.00
ATOM	6647	2HH2	ARG	B	247	42.309	12.408	-22.347	1.00	0.00
ATOM	6648	N	PHE	B	248	47.935	18.501	-16.585	1.00	0.00
ATOM	6649	CA	PHE	B	248	48.068	19.793	-15.927	1.00	0.00
ATOM	6650	C	PHE	B	248	49.489	20.296	-15.729	1.00	0.00
ATOM	6651	O	PHE	B	248	49.704	21.454	-15.379	1.00	0.00
ATOM	6652	CB	PHE	B	248	47.369	19.736	-14.568	1.00	0.00
ATOM	6653	CG	PHE	B	248	45.876	19.598	-14.660	1.00	0.00
ATOM	6654	CD1	PHE	B	248	45.215	19.839	-15.856	1.00	0.00
ATOM	6655	CD2	PHE	B	248	45.129	19.228	-13.552	1.00	0.00
ATOM	6656	CE1	PHE	B	248	43.842	19.713	-15.942	1.00	0.00
ATOM	6657	CE2	PHE	B	248	43.756	19.100	-13.635	1.00	0.00
ATOM	6658	CZ	PHE	B	248	43.112	19.343	-14.832	1.00	0.00
ATOM	6659	H	PHE	B	248	47.685	17.685	-16.064	1.00	0.00
ATOM	6660	HA	PHE	B	248	47.606	20.569	-16.539	1.00	0.00
ATOM	6661	1HB	PHE	B	248	47.727	18.880	-13.998	1.00	0.00
ATOM	6662	2HB	PHE	B	248	47.563	20.650	-14.009	1.00	0.00
ATOM	6663	HD1	PHE	B	248	45.792	20.130	-16.734	1.00	0.00
ATOM	6664	HD2	PHE	B	248	45.638	19.038	-12.606	1.00	0.00
ATOM	6665	HE1	PHE	B	248	43.335	19.904	-16.887	1.00	0.00
ATOM	6666	HE2	PHE	B	248	43.180	18.808	-12.757	1.00	0.00
ATOM	6667	HZ	PHE	B	248	42.029	19.244	-14.898	1.00	0.00
ATOM	6668	N	LEU	B	249	50.442	19.384	-15.979	1.00	0.00
ATOM	6669	CA	LEU	B	249	51.861	19.725	-15.921	1.00	0.00
ATOM	6670	C	LEU	B	249	52.275	20.828	-16.884	1.00	0.00
ATOM	6671	O	LEU	B	249	53.056	21.718	-16.561	1.00	0.00
ATOM	6672	OXT	LEU	B	249	51.834	20.847	-18.000	1.00	0.00
ATOM	6673	CB	LEU	B	249	52.700	18.468	-16.190	1.00	0.00

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ATOM	6674	CG	LEU	B	249	54.217	18.660	-16.074	1.00	0.00
ATOM	6675	CD1	LEU	B	249	54.594	18.990	-14.636	1.00	0.00
ATOM	6676	CD2	LEU	B	249	54.926	17.396	-16.541	1.00	0.00
ATOM	6677	H	LEU	B	249	50.172	18.436	-16.153	1.00	0.00
ATOM	6678	HA	LEU	B	249	52.103	20.115	-14.933	1.00	0.00
ATOM	6679	1HB	LEU	B	249	52.339	17.839	-15.378	1.00	0.00
ATOM	6680	2HB	LEU	B	249	52.446	18.010	-17.145	1.00	0.00
ATOM	6681	HG	LEU	B	249	54.495	19.468	-16.753	1.00	0.00
ATOM	6682	1HD1	LEU	B	249	55.674	19.124	-14.565	1.00	0.00
ATOM	6683	2HD1	LEU	B	249	54.094	19.909	-14.331	1.00	0.00
ATOM	6684	3HD1	LEU	B	249	54.287	18.173	-13.983	1.00	0.00
ATOM	6685	1HD2	LEU	B	249	56.005	17.534	-16.460	1.00	0.00
ATOM	6686	2HD2	LEU	B	249	54.619	16.556	-15.920	1.00	0.00
ATOM	6687	3HD2	LEU	B	249	54.664	17.195	-17.580	1.00	0.00
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