

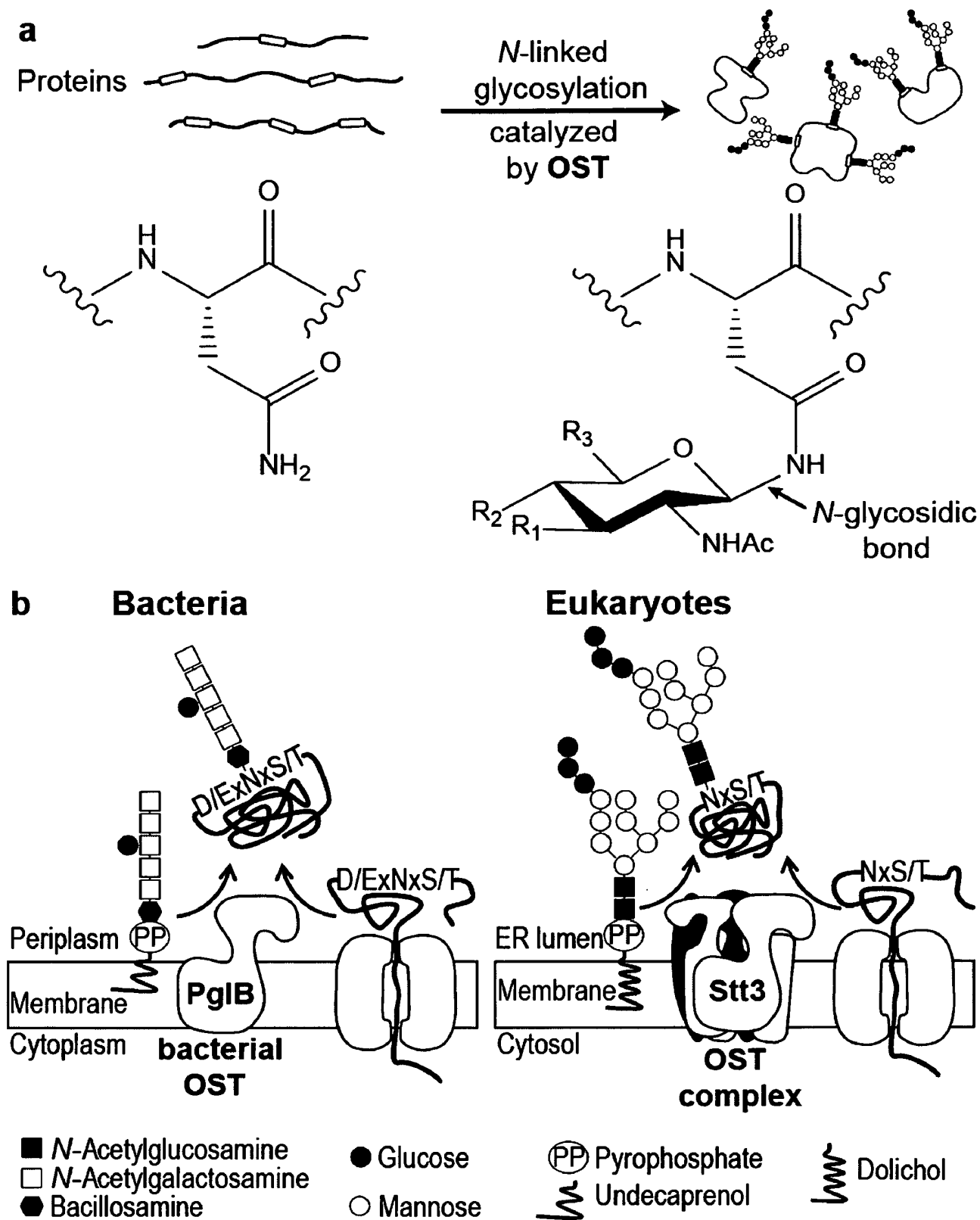
Fig. 1

Fig. 2

1. LLO biosynthesis cluster (*C. jejuni*) with inactivated *pglB* gene



2. Active PglB
(*C. lari*)



3. Glycosylation
acceptor protein
scFv 3D5

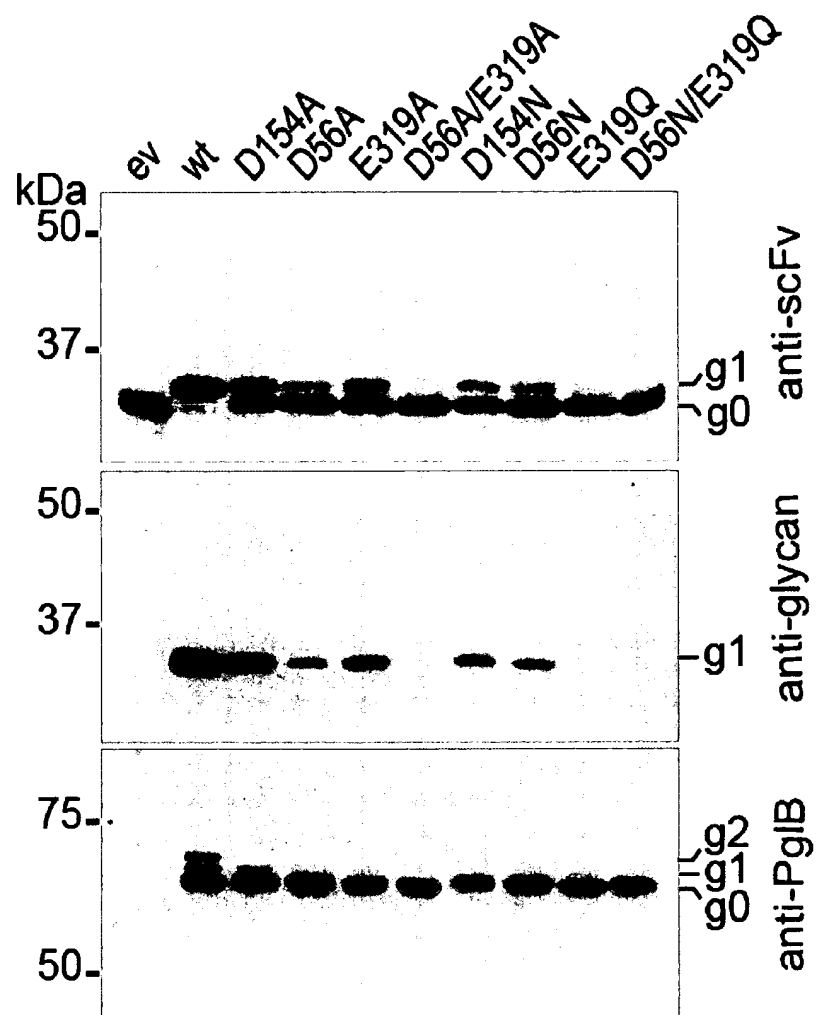


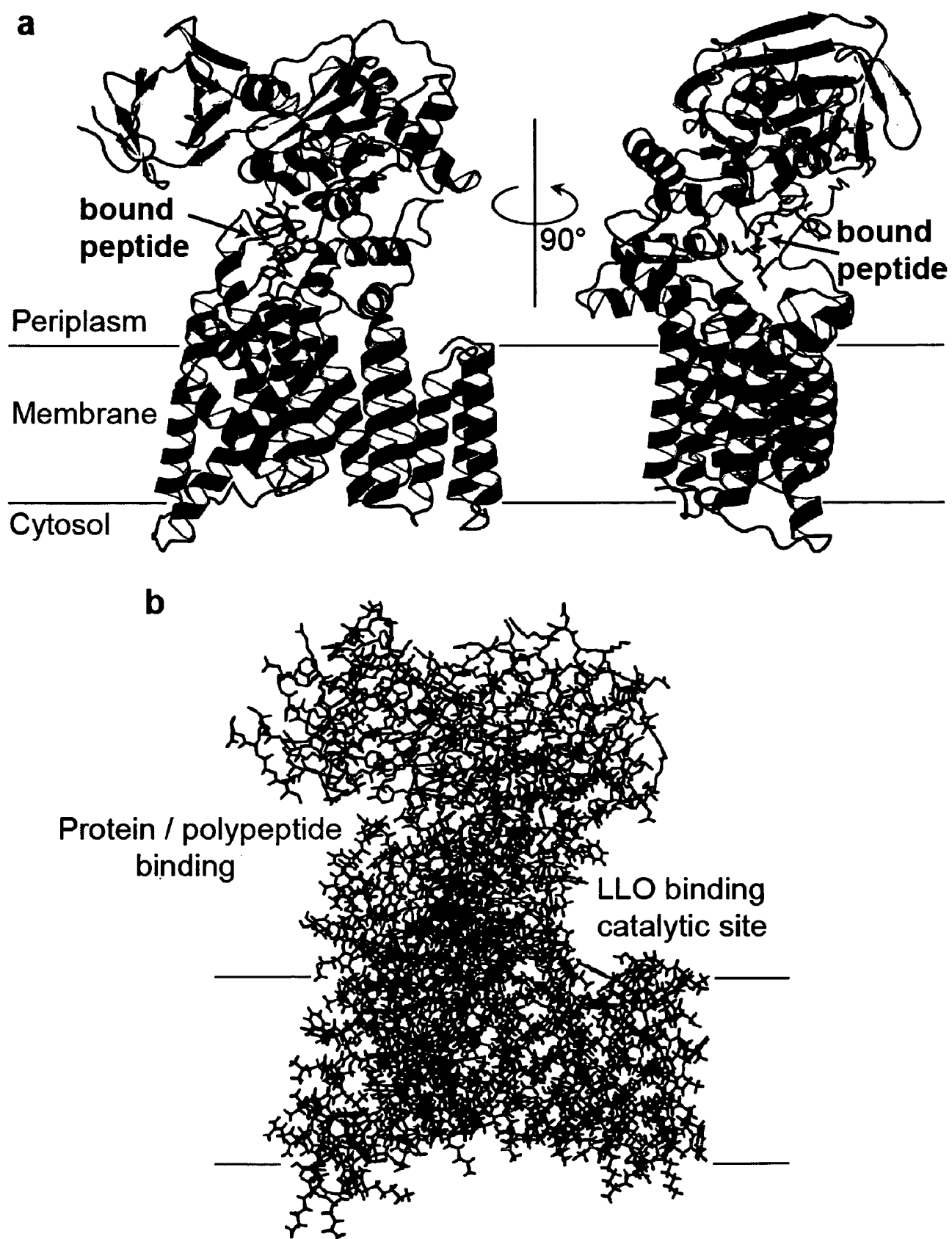
Fig. 3

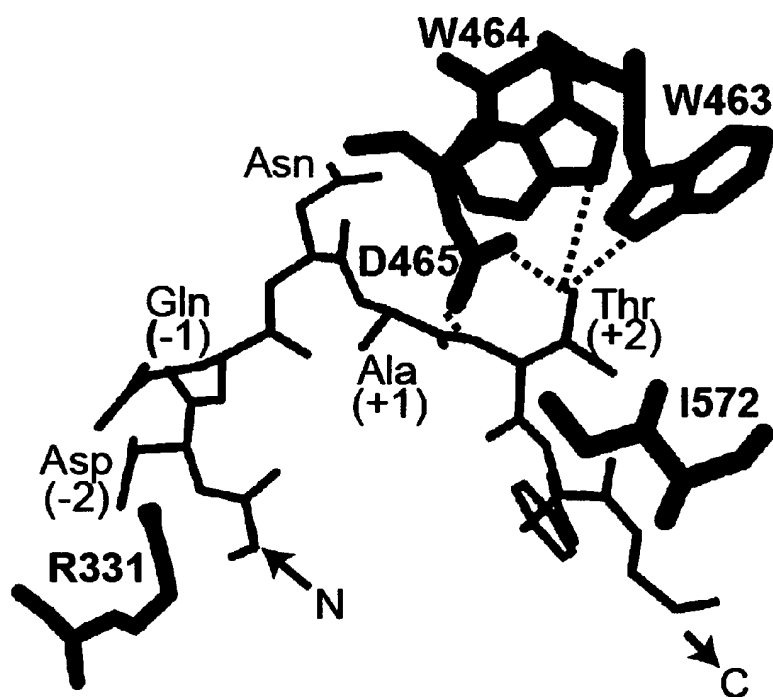
Fig. 4**a****b**

Fig. 5

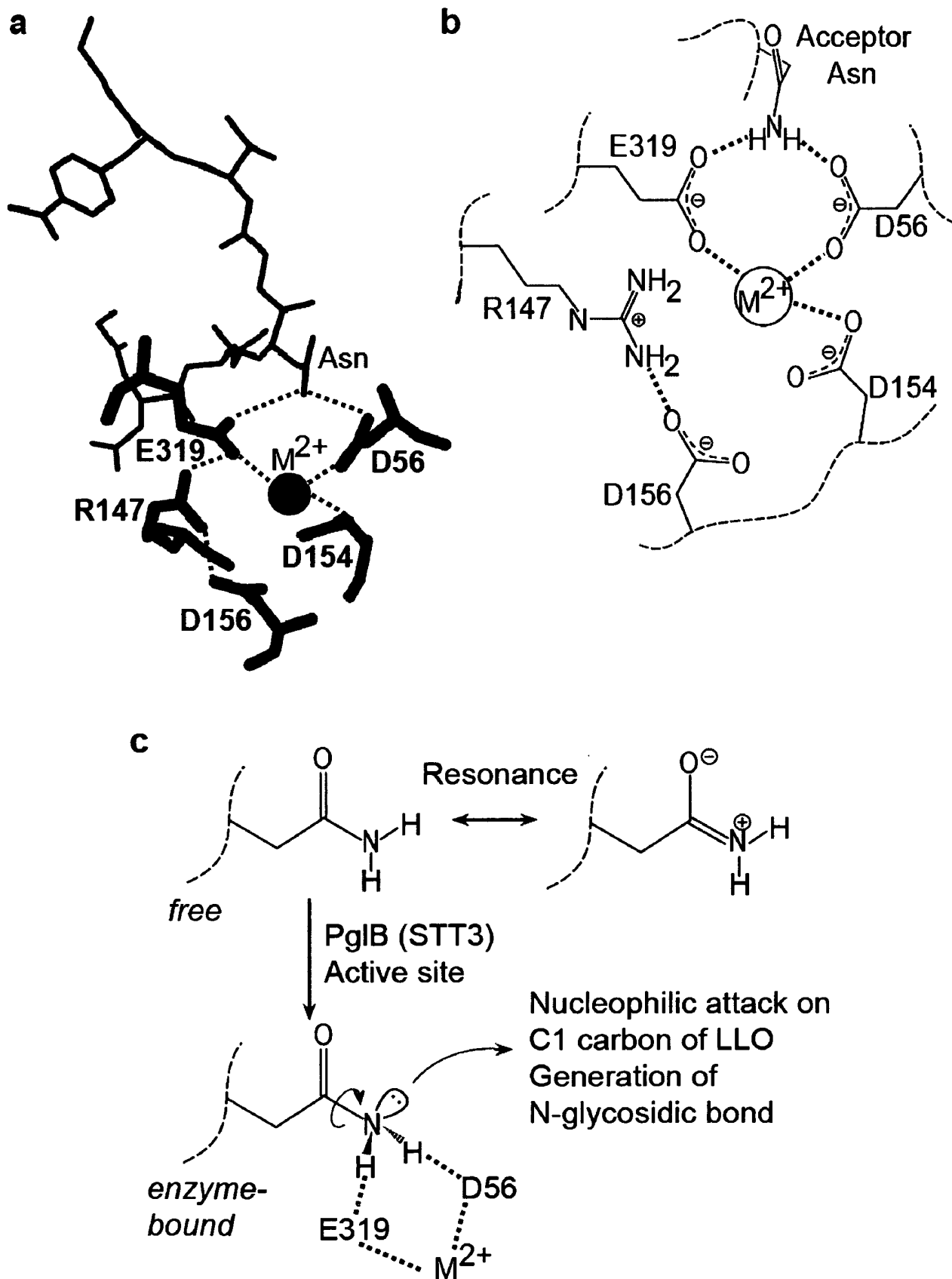


Fig. 6a

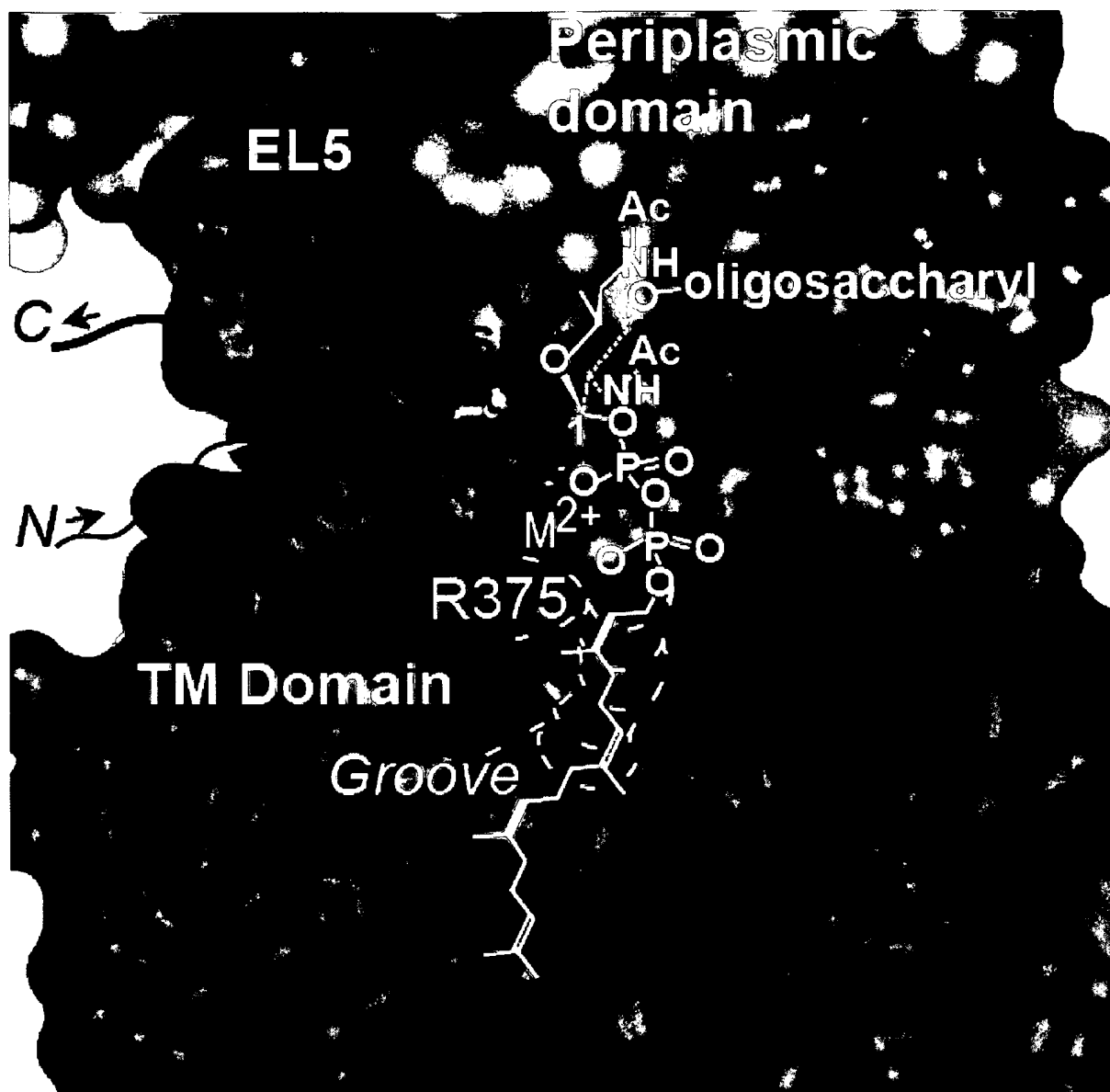


Fig. 6b

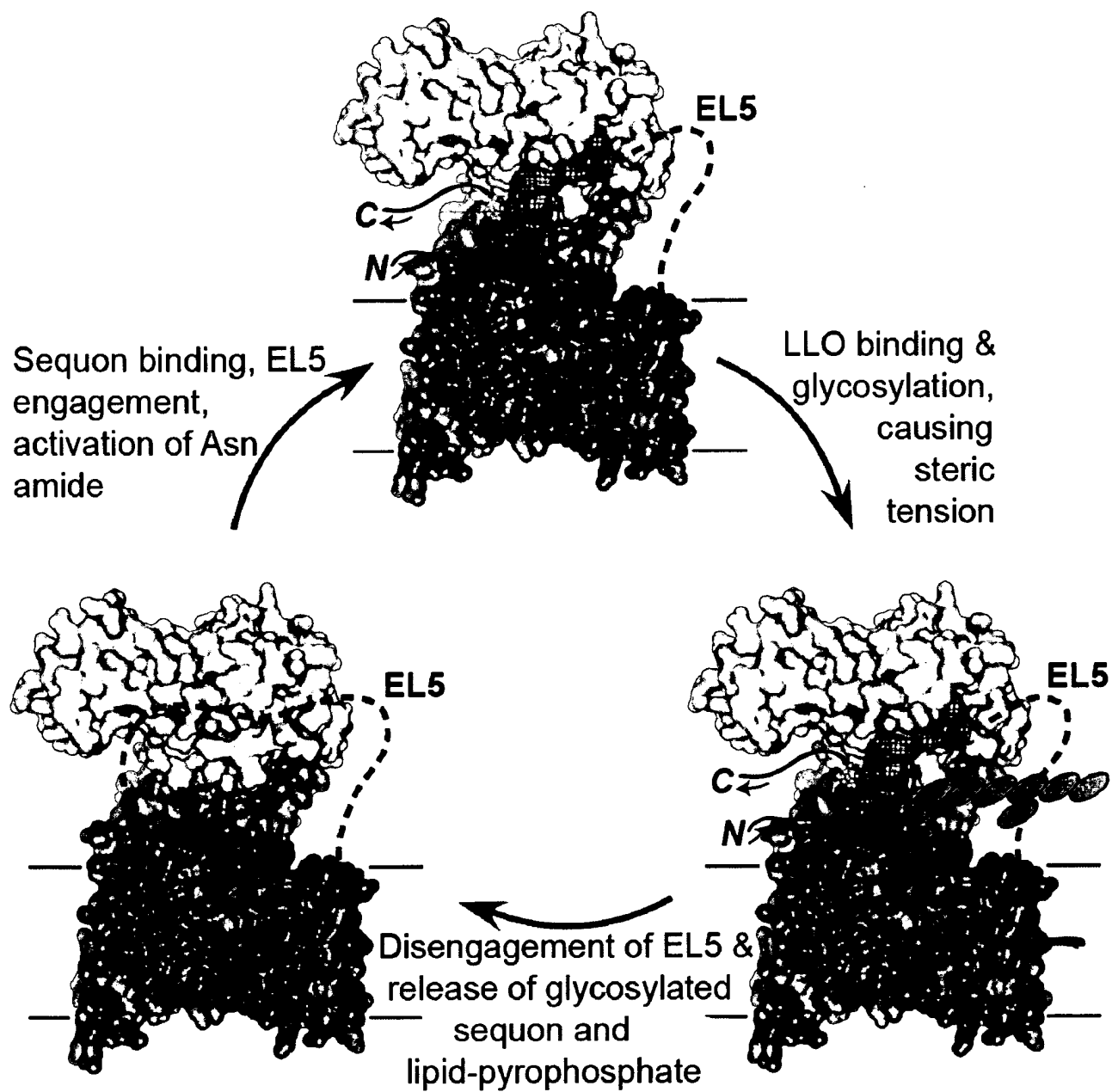


Fig. 7 – Table 1

	1				2				3				4				5				6				7				8			
	12345678901	23456789012	34567890123	45678901234	56789012345	67890123456	78901234567	89012345678	90123456789	0123456789	12345678901	23456789012	34567890123	45678901234	56789012345	67890123456	78901234567	89012345678	90123456789	0123456789	12345678901	23456789012	34567890123	45678901234	56789012345	67890123456	78901234567	89012345678	90123456789			
ATOM	1	N	GLU	A	2						24.265	-40.497	57.258	1.00282.44															N			
ATOM	2	CA	GLU	A	2						23.885	-40.443	55.854	1.00252.94															C			
ATOM	3	C	GLU	A	2						22.388	-40.631	55.652	1.00225.90															C			
ATOM	4	O	GLU	A	2						21.735	-39.779	55.059	1.00197.60															O			
ATOM	5	CB	GLU	A	2						24.654	-41.483	55.033	1.00204.11															C			
ATOM	6	CG	GLU	A	2						26.060	-41.060	54.630	1.00217.65															C			
ATOM	7	CD	GLU	A	2						26.729	-42.062	53.702	1.00225.06															C			
ATOM	8	OE1	GLU	A	2						26.015	-42.876	53.082	1.00208.68															O			
ATOM	9	OE2	GLU	A	2						27.972	-42.041	53.595	1.00248.69															O1-			
ATOM	10	N	LEU	A	3						21.842	-41.740	56.144	1.00199.23															N			
ATOM	11	CA	LEU	A	3						20.456	-42.092	55.827	1.00176.20															C			
ATOM	12	C	LEU	A	3						19.496	-42.136	57.009	1.00178.83															C			
ATOM	13	O	LEU	A	3						18.288	-42.266	56.815	1.00156.42															O			
ATOM	14	CB	LEU	A	3						20.393	-43.424	55.075	1.00161.40															C			
ATOM	15	CG	LEU	A	3						20.154	-43.345	53.566	1.00145.33															C			
ATOM	16	CD1	LEU	A	3						20.330	-44.715	52.935	1.00158.48															C			
ATOM	17	CD2	LEU	A	3						18.780	-42.786	53.257	1.00112.04															C			
ATOM	18	N	GLN	A	4						20.021	-42.032	58.224	1.00187.52															N			
ATOM	19	CA	GLN	A	4						19.179	-42.110	59.415	1.00195.67															C			
ATOM	20	C	GLN	A	4						18.736	-40.731	59.908	1.00184.83															C			
ATOM	21	O	GLN	A	4						18.030	-40.629	60.910	1.00190.65															O			
ATOM	22	CB	GLN	A	4						19.902	-42.860	60.533	1.00126.23															C			
ATOM	23	CG	GLN	A	4						19.113	-42.964	61.819	1.00139.97															C			
ATOM	24	CD	GLN	A	4						19.957	-43.451	62.992	1.00182.49															C			
ATOM	25	NE2	GLN	A	4						19.627	-42.985	64.195	1.00193.19															N			
ATOM	26	OE1	GLN	A	4						20.894	-44.232	62.817	1.00201.70															O			
ATOM	27	N	GLN	A	5						19.140	-39.679	59.195	1.00199.42															N			
ATOM	28	CA	GLN	A	5						18.842	-38.294	59.584	1.00187.32															C			
ATOM	29	C	GLN	A	5						17.435	-37.854	59.171	1.00158.58															C			
ATOM	30	O	GLN	A	5						16.884	-38.350	58.197	1.00138.14															O			
ATOM	31	CB	GLN	A	5						19.864	-37.338	58.962	1.00153.73															C			
ATOM	32	CG	GLN	A	5						21.313	-37.765	59.119	1.00179.41															C			
ATOM	33	CD	GLN	A	5						22.232	-37.083	58.126	1.00169.98															C			
ATOM	34	NE2	GLN	A	5						23.484	-37.522	58.073	1.00192.89															N			
ATOM	35	OE1	GLN	A	5						21.818	-36.180	57.407	1.00143.90															O			
ATOM	36	N	ASN	A	6						16.865	-36.903	59.902	1.00175.39															N			
ATOM	37	CA	ASN	A	6						15.547	-36.359	59.564	1.00150.45															C			
ATOM	38	C	ASN	A	6						15.608	-35.243	58.502	1.00125.55															C			
ATOM	39	O	ASN	A	6						16.101	-34.140	58.747	1.00126.03															O			
ATOM	40	CB	ASN	A	6						14.839	-35.863	60.828	1.00175.97															C			
ATOM	41	CG	ASN	A	6						13.358	-35.644	60.621	1.00155.29															C			
ATOM	42	ND2	ASN	A	6						12.960	-34.393	60.433	1.00151.52															N			
ATOM	43	OD1	ASN	A	6						12.579	-36.590	60.641	1.00140.62															O			
ATOM	44	N	PHE	A	7						15.112	-35.531	57.310	1.00167.15															N			
ATOM	45	CA	PHE	A	7						15.223	-34.553	56.249	1.00145.50															C			
ATOM	46	C	PHE	A	7						13.923	-33.802	56.073	1.00123.39															C			
ATOM	47	O	PHE	A	7						13.906	-32.671	55.587	1.00111.15															O			
ATOM	48	CB	PHE	A	7						15.601	-35.228	54.940	1.00105.72															C			
ATOM	49	CG	PHE	A	7						16.946	-35.904	54.958	1.00125.83															C			
ATOM	50	CD1	PHE	A	7						17.106	-37.138	55.563	1.00144.71															C			
ATOM	51	CD2	PHE	A	7						18.042	-35.318	54.333	1.00126.84															C			
ATOM	52	CE1	PHE	A	7						18.339	-37.761	55.566	1.00164.95															C			
ATOM	53	CE2	PHE	A	7						19.278	-35.941	54.335	1.00147.12															C			
ATOM	54	CZ	PHE	A	7						19.426	-37.161	54.950	1.00166.36															C			
ATOM	55	N	THR	A	8						12.824	-34.435	56.448	1.00146.13															N			
ATOM	56	CA	THR	A	8						11.536	-33.795	56.273	1.00126.95															C			

ATOM	57	C	THR	A	8	11.523	-32.447	56.998	1.00131.14	C
ATOM	58	O	THR	A	8	11.353	-31.407	56.364	1.00115.27	O
ATOM	59	CB	THR	A	8	10.381	-34.700	56.752	1.00130.17	C
ATOM	60	CG2	THR	A	8	9.022	-34.035	56.495	1.00111.76	C
ATOM	61	OG1	THR	A	8	10.443	-35.961	56.070	1.00127.62	O
ATOM	62	N	ASP	A	9	11.745	-32.472	58.313	1.00159.74	N
ATOM	63	CA	ASP	A	9	11.566	-31.288	59.166	1.00167.59	C
ATOM	64	C	ASP	A	9	12.665	-30.235	59.044	1.00167.58	C
ATOM	65	O	ASP	A	9	12.632	-29.206	59.723	1.00170.06	O
ATOM	66	CB	ASP	A	9	11.392	-31.690	60.639	1.00190.88	C
ATOM	67	CG	ASP	A	9	9.965	-32.097	60.977	1.00191.86	C
ATOM	68	OD1	ASP	A	9	9.025	-31.322	60.691	1.00173.93	O
ATOM	69	OD2	ASP	A	9	9.790	-33.199	61.537	1.00209.17	O1-
ATOM	70	N	ASN	A	10	13.639	-30.487	58.183	1.00150.00	N
ATOM	71	CA	ASN	A	10	14.682	-29.503	57.940	1.00150.58	C
ATOM	72	C	ASN	A	10	14.220	-28.493	56.898	1.00128.29	C
ATOM	73	O	ASN	A	10	13.820	-28.874	55.798	1.00116.96	O
ATOM	74	CB	ASN	A	10	15.968	-30.193	57.479	1.00111.11	C
ATOM	75	CG	ASN	A	10	17.166	-29.255	57.451	1.00121.47	C
ATOM	76	ND2	ASN	A	10	18.348	-29.800	57.735	1.00140.33	N
ATOM	77	OD1	ASN	A	10	17.036	-28.060	57.176	1.00112.08	O
ATOM	78	N	ASN	A	11	14.261	-27.211	57.251	1.00134.98	N
ATOM	79	CA	ASN	A	11	13.895	-26.134	56.331	1.00116.35	C
ATOM	80	C	ASN	A	11	14.927	-25.009	56.359	1.00121.41	C
ATOM	81	O	ASN	A	11	14.581	-23.833	56.230	1.00118.69	O
ATOM	82	CB	ASN	A	11	12.515	-25.561	56.678	1.00154.58	C
ATOM	83	CG	ASN	A	11	11.390	-26.574	56.515	1.00148.83	C
ATOM	84	ND2	ASN	A	11	11.147	-27.356	57.554	1.00157.70	N
ATOM	85	OD1	ASN	A	11	10.740	-26.637	55.473	1.00133.86	O
ATOM	86	N	SER	A	12	16.194	-25.381	56.519	1.00171.25	N
ATOM	87	CA	SER	A	12	17.269	-24.413	56.722	1.00176.49	C
ATOM	88	C	SER	A	12	17.771	-23.777	55.437	1.00164.72	C
ATOM	89	O	SER	A	12	17.666	-24.353	54.355	1.00156.41	O
ATOM	90	CB	SER	A	12	18.446	-25.070	57.443	1.00129.94	C
ATOM	91	OG	SER	A	12	18.909	-26.204	56.732	1.00139.09	O
ATOM	92	N	ILE	A	13	18.329	-22.581	55.579	1.00156.10	N
ATOM	93	CA	ILE	A	13	18.995	-21.896	54.484	1.00148.80	C
ATOM	94	C	ILE	A	13	19.909	-22.856	53.724	1.00153.85	C
ATOM	95	O	ILE	A	13	19.701	-23.121	52.542	1.00143.98	O
ATOM	96	CB	ILE	A	13	19.859	-20.743	55.024	1.00193.15	C
ATOM	97	CG1	ILE	A	13	19.367	-20.321	56.422	1.00196.13	C
ATOM	98	CG2	ILE	A	13	19.902	-19.589	54.015	1.00183.27	C
ATOM	99	CD1	ILE	A	13	20.456	-19.781	57.352	1.00205.51	C
ATOM	100	N	LYS	A	14	20.918	-23.376	54.420	1.00191.01	N
ATOM	101	CA	LYS	A	14	21.937	-24.244	53.829	1.00199.59	C
ATOM	102	C	LYS	A	14	21.293	-25.422	53.120	1.00197.24	C
ATOM	103	O	LYS	A	14	21.626	-25.744	51.977	1.00190.06	O
ATOM	104	CB	LYS	A	14	22.884	-24.745	54.927	1.00138.18	C
ATOM	105	CG	LYS	A	14	24.172	-25.453	54.472	1.00152.16	C
ATOM	106	CD	LYS	A	14	25.086	-25.775	55.683	1.00172.72	C
ATOM	107	CE	LYS	A	14	25.536	-24.494	56.406	1.00175.90	C
ATOM	108	NZ	LYS	A	14	26.201	-24.731	57.721	1.00194.19	N1+
ATOM	109	N	TYR	A	15	20.359	-26.059	53.810	1.00146.16	N
ATOM	110	CA	TYR	A	15	19.690	-27.225	53.274	1.00140.74	C
ATOM	111	C	TYR	A	15	18.928	-26.874	52.013	1.00117.99	C
ATOM	112	O	TYR	A	15	19.130	-27.470	50.953	1.00113.52	O
ATOM	113	CB	TYR	A	15	18.723	-27.768	54.302	1.00130.34	C
ATOM	114	CG	TYR	A	15	18.083	-29.072	53.919	1.00128.93	C
ATOM	115	CD1	TYR	A	15	18.831	-30.230	53.807	1.00145.06	C
ATOM	116	CD2	TYR	A	15	16.719	-29.152	53.699	1.00113.53	C
ATOM	117	CE1	TYR	A	15	18.237	-31.425	53.477	1.00145.23	C

ATOM	118	CE2	TYR	A	15	16.117	-30.344	53.370	1.00110.67	C
ATOM	119	CZ	TYR	A	15	16.877	-31.471	53.262	1.00125.64	C
ATOM	120	OH	TYR	A	15	16.261	-32.649	52.937	1.00121.14	O
ATOM	121	N	THR	A	16	18.033	-25.908	52.135	1.00152.52	N
ATOM	122	CA	THR	A	16	17.282	-25.438	50.988	1.00132.69	C
ATOM	123	C	THR	A	16	18.193	-25.141	49.790	1.00129.79	C
ATOM	124	O	THR	A	16	17.862	-25.503	48.668	1.00118.87	O
ATOM	125	CB	THR	A	16	16.415	-24.218	51.358	1.00107.64	C
ATOM	126	CG2	THR	A	16	16.241	-23.277	50.170	1.00 92.56	C
ATOM	127	OG1	THR	A	16	15.128	-24.667	51.800	1.00103.07	O
ATOM	128	N	CYS	A	17	19.344	-24.512	50.021	1.00113.88	N
ATOM	129	CA	CYS	A	17	20.255	-24.169	48.917	1.00113.11	C
ATOM	130	C	CYS	A	17	21.049	-25.346	48.336	1.00123.63	C
ATOM	131	O	CYS	A	17	21.421	-25.335	47.157	1.00120.40	O
ATOM	132	CB	CYS	A	17	21.186	-23.021	49.303	1.00139.19	C
ATOM	133	SG	CYS	A	17	20.345	-21.433	49.290	1.00124.92	S
ATOM	134	N	ILE	A	18	21.310	-26.357	49.158	1.00122.90	N
ATOM	135	CA	ILE	A	18	21.928	-27.576	48.655	1.00133.28	C
ATOM	136	C	ILE	A	18	20.913	-28.348	47.821	1.00119.15	C
ATOM	137	O	ILE	A	18	21.260	-28.944	46.809	1.00119.75	O
ATOM	138	CB	ILE	A	18	22.487	-28.460	49.792	1.00109.53	C
ATOM	139	CG1	ILE	A	18	23.815	-27.886	50.306	1.00126.45	C
ATOM	140	CG2	ILE	A	18	22.673	-29.895	49.317	1.00118.86	C
ATOM	141	CD1	ILE	A	18	24.629	-28.853	51.139	1.00150.53	C
ATOM	142	N	LEU	A	19	19.652	-28.318	48.230	1.00148.03	N
ATOM	143	CA	LEU	A	19	18.606	-28.986	47.467	1.00129.11	C
ATOM	144	C	LEU	A	19	18.287	-28.238	46.160	1.00110.85	C
ATOM	145	O	LEU	A	19	17.947	-28.865	45.152	1.00101.31	O
ATOM	146	CB	LEU	A	19	17.348	-29.182	48.322	1.00105.24	C
ATOM	147	CG	LEU	A	19	17.487	-29.940	49.651	1.00123.39	C
ATOM	148	CD1	LEU	A	19	16.134	-30.461	50.159	1.00114.28	C
ATOM	149	CD2	LEU	A	19	18.476	-31.084	49.498	1.00138.17	C
ATOM	150	N	ILE	A	20	18.401	-26.907	46.188	1.00107.76	N
ATOM	151	CA	ILE	A	20	18.296	-26.072	44.990	1.00 94.55	C
ATOM	152	C	ILE	A	20	19.453	-26.358	44.041	1.00103.29	C
ATOM	153	O	ILE	A	20	19.266	-26.459	42.823	1.00 93.68	O
ATOM	154	CB	ILE	A	20	18.327	-24.569	45.326	1.00103.49	C
ATOM	155	CG1	ILE	A	20	16.920	-23.980	45.298	1.00 85.24	C
ATOM	156	CG2	ILE	A	20	19.141	-23.815	44.297	1.00105.23	C
ATOM	157	CD1	ILE	A	20	16.507	-23.193	46.537	1.00 87.29	C
ATOM	158	N	LEU	A	21	20.653	-26.481	44.606	1.00107.43	N
ATOM	159	CA	LEU	A	21	21.838	-26.840	43.830	1.00118.61	C
ATOM	160	C	LEU	A	21	21.705	-28.199	43.150	1.00118.82	C
ATOM	161	O	LEU	A	21	21.884	-28.304	41.946	1.00116.20	O
ATOM	162	CB	LEU	A	21	23.083	-26.820	44.716	1.00125.51	C
ATOM	163	CG	LEU	A	21	24.000	-25.641	44.422	1.00125.69	C
ATOM	164	CD1	LEU	A	21	25.027	-26.025	43.352	1.00142.02	C
ATOM	165	CD2	LEU	A	21	23.173	-24.414	44.018	1.00107.91	C
ATOM	166	N	ILE	A	22	21.400	-29.236	43.926	1.00118.98	N
ATOM	167	CA	ILE	A	22	21.213	-30.570	43.367	1.00119.00	C
ATOM	168	C	ILE	A	22	20.110	-30.568	42.323	1.00 97.42	C
ATOM	169	O	ILE	A	22	20.292	-31.080	41.218	1.00 96.14	O
ATOM	170	CB	ILE	A	22	20.816	-31.601	44.435	1.00 86.03	C
ATOM	171	CG1	ILE	A	22	21.681	-31.448	45.691	1.00108.85	C
ATOM	172	CG2	ILE	A	22	20.890	-33.019	43.845	1.00 89.59	C
ATOM	173	CD1	ILE	A	22	21.136	-32.151	46.930	1.00116.13	C
ATOM	174	N	ALA	A	23	18.958	-30.007	42.682	1.00135.66	N
ATOM	175	CA	ALA	A	23	17.823	-29.993	41.768	1.00117.23	C
ATOM	176	C	ALA	A	23	18.204	-29.357	40.451	1.00112.47	C
ATOM	177	O	ALA	A	23	17.999	-29.934	39.385	1.00107.46	O
ATOM	178	CB	ALA	A	23	16.688	-29.253	42.367	1.00 78.16	C

ATOM	179	N	PHE	A	24	18.757	-28.157	40.528	1.00	89.85	N
ATOM	180	CA	PHE	A	24	19.168	-27.431	39.340	1.00	87.29	C
ATOM	181	C	PHE	A	24	20.217	-28.185	38.484	1.00	99.59	C
ATOM	182	O	PHE	A	24	20.096	-28.295	37.247	1.00	94.79	O
ATOM	183	CB	PHE	A	24	19.710	-26.076	39.755	1.00	95.16	C
ATOM	184	CG	PHE	A	24	20.341	-25.334	38.643	1.00	96.71	C
ATOM	185	CD1	PHE	A	24	19.610	-24.408	37.923	1.00	83.28	C
ATOM	186	CD2	PHE	A	24	21.662	-25.578	38.291	1.00	113.38	C
ATOM	187	CE1	PHE	A	24	20.188	-23.721	36.876	1.00	86.18	C
ATOM	188	CE2	PHE	A	24	22.256	-24.905	37.247	1.00	116.41	C
ATOM	189	CZ	PHE	A	24	21.525	-23.973	36.533	1.00	102.74	C
ATOM	190	N	ALA	A	25	21.254	-28.699	39.144	1.00	116.39	N
ATOM	191	CA	ALA	A	25	22.337	-29.410	38.462	1.00	130.99	C
ATOM	192	C	ALA	A	25	21.795	-30.621	37.732	1.00	126.64	C
ATOM	193	O	ALA	A	25	22.191	-30.902	36.615	1.00	128.03	O
ATOM	194	CB	ALA	A	25	23.408	-29.829	39.450	1.00	97.30	C
ATOM	195	N	PHE	A	26	20.890	-31.329	38.391	1.00	110.37	N
ATOM	196	CA	PHE	A	26	20.174	-32.461	37.817	1.00	105.44	C
ATOM	197	C	PHE	A	26	19.327	-32.082	36.588	1.00	90.43	C
ATOM	198	O	PHE	A	26	19.501	-32.637	35.481	1.00	94.07	O
ATOM	199	CB	PHE	A	26	19.307	-33.055	38.916	1.00	124.80	C
ATOM	200	CG	PHE	A	26	18.209	-33.935	38.429	1.00	112.90	C
ATOM	201	CD1	PHE	A	26	18.418	-35.300	38.263	1.00	121.16	C
ATOM	202	CD2	PHE	A	26	16.953	-33.410	38.177	1.00	95.15	C
ATOM	203	CE1	PHE	A	26	17.395	-36.141	37.826	1.00	111.52	C
ATOM	204	CE2	PHE	A	26	15.921	-34.236	37.752	1.00	86.26	C
ATOM	205	CZ	PHE	A	26	16.146	-35.619	37.569	1.00	94.35	C
ATOM	206	N	SER	A	27	18.410	-31.138	36.777	1.00	118.28	N
ATOM	207	CA	SER	A	27	17.665	-30.578	35.653	1.00	106.58	C
ATOM	208	C	SER	A	27	18.568	-30.127	34.497	1.00	112.86	C
ATOM	209	O	SER	A	27	18.130	-30.074	33.358	1.00	108.82	O
ATOM	210	CB	SER	A	27	16.793	-29.401	36.105	1.00	94.00	C
ATOM	211	OG	SER	A	27	16.250	-28.694	34.997	1.00	85.91	O
ATOM	212	N	VAL	A	28	19.820	-29.784	34.768	1.00	75.57	N
ATOM	213	CA	VAL	A	28	20.696	-29.444	33.651	1.00	84.21	C
ATOM	214	C	VAL	A	28	21.330	-30.674	33.002	1.00	97.80	C
ATOM	215	O	VAL	A	28	21.375	-30.784	31.778	1.00	100.53	O
ATOM	216	CB	VAL	A	28	21.791	-28.445	34.036	1.00	98.26	C
ATOM	217	CG1	VAL	A	28	22.748	-28.266	32.873	1.00	110.56	C
ATOM	218	CG2	VAL	A	28	21.172	-27.110	34.422	1.00	85.54	C
ATOM	219	N	LEU	A	29	21.824	-31.593	33.825	1.00	98.58	N
ATOM	220	CA	LEU	A	29	22.357	-32.856	33.335	1.00	112.86	C
ATOM	221	C	LEU	A	29	21.367	-33.516	32.418	1.00	105.31	C
ATOM	222	O	LEU	A	29	21.750	-34.044	31.396	1.00	116.12	O
ATOM	223	CB	LEU	A	29	22.681	-33.812	34.477	1.00	108.68	C
ATOM	224	CG	LEU	A	29	23.936	-33.480	35.285	1.00	123.11	C
ATOM	225	CD1	LEU	A	29	24.850	-34.699	35.341	1.00	142.96	C
ATOM	226	CD2	LEU	A	29	24.671	-32.243	34.736	1.00	130.95	C
ATOM	227	N	CYS	A	30	20.088	-33.490	32.766	1.00	103.74	N
ATOM	228	CA	CYS	A	30	19.106	-34.129	31.889	1.00	97.60	C
ATOM	229	C	CYS	A	30	18.889	-33.478	30.509	1.00	94.56	C
ATOM	230	O	CYS	A	30	18.729	-34.195	29.510	1.00	99.95	O
ATOM	231	CB	CYS	A	30	17.787	-34.282	32.613	1.00	100.72	C
ATOM	232	SG	CYS	A	30	18.047	-35.112	34.141	1.00	104.62	S
ATOM	233	N	ARG	A	31	18.873	-32.141	30.447	1.00	99.56	N
ATOM	234	CA	ARG	A	31	18.635	-31.440	29.181	1.00	97.69	C
ATOM	235	C	ARG	A	31	19.745	-31.842	28.256	1.00	114.40	C
ATOM	236	O	ARG	A	31	19.645	-31.699	27.045	1.00	117.51	O
ATOM	237	CB	ARG	A	31	18.685	-29.909	29.329	1.00	141.52	C
ATOM	238	CG	ARG	A	31	17.954	-29.308	30.505	1.00	128.69	C
ATOM	239	CD	ARG	A	31	16.559	-28.844	30.160	1.00	115.64	C

ATOM	240	NE	ARG	A	31	15.679	-29.029	31.314	1.00104.68	N
ATOM	241	CZ	ARG	A	31	14.369	-28.801	31.316	1.00 93.41	C
ATOM	242	NH1	ARG	A	31	13.772	-28.366	30.220	1.00 91.78	N1+
ATOM	243	NH2	ARG	A	31	13.653	-28.999	32.413	1.00 86.06	N
ATOM	244	N	LEU	A	32	20.791	-32.382	28.869	1.00 79.10	N
ATOM	245	CA	LEU	A	32	22.130	-32.470	28.292	1.00 98.19	C
ATOM	246	C	LEU	A	32	22.532	-33.857	27.746	1.00112.21	C
ATOM	247	O	LEU	A	32	23.654	-34.052	27.297	1.00130.74	O
ATOM	248	CB	LEU	A	32	23.120	-32.007	29.355	1.00 71.50	C
ATOM	249	CG	LEU	A	32	24.532	-31.685	28.938	1.00 87.78	C
ATOM	250	CD1	LEU	A	32	24.869	-30.255	29.310	1.00 78.80	C
ATOM	251	CD2	LEU	A	32	25.457	-32.692	29.610	1.00105.30	C
ATOM	252	N	TYR	A	33	21.611	-34.813	27.783	1.00 94.67	N
ATOM	253	CA	TYR	A	33	21.819	-36.102	27.142	1.00107.78	C
ATOM	254	C	TYR	A	33	21.684	-35.953	25.635	1.00113.50	C
ATOM	255	O	TYR	A	33	22.488	-36.486	24.866	1.00131.43	O
ATOM	256	CB	TYR	A	33	20.807	-37.114	27.675	1.00 96.46	C
ATOM	257	CG	TYR	A	33	20.550	-38.307	26.783	1.00106.39	C
ATOM	258	CD1	TYR	A	33	20.573	-39.596	27.293	1.00114.87	C
ATOM	259	CD2	TYR	A	33	20.237	-38.146	25.450	1.00108.56	C
ATOM	260	CE1	TYR	A	33	20.326	-40.688	26.484	1.00124.88	C
ATOM	261	CE2	TYR	A	33	19.989	-39.226	24.640	1.00119.18	C
ATOM	262	CZ	TYR	A	33	20.030	-40.492	25.157	1.00126.98	C
ATOM	263	OH	TYR	A	33	19.774	-41.557	24.333	1.00138.45	O
ATOM	264	N	TRP	A	34	20.653	-35.233	25.214	1.00 96.57	N
ATOM	265	CA	TRP	A	34	20.413	-35.034	23.801	1.00102.60	C
ATOM	266	C	TRP	A	34	21.646	-34.488	23.113	1.00114.03	C
ATOM	267	O	TRP	A	34	21.834	-34.708	21.919	1.00116.67	O
ATOM	268	CB	TRP	A	34	19.228	-34.111	23.571	1.00104.99	C
ATOM	269	CG	TRP	A	34	18.932	-33.897	22.127	1.00110.43	C
ATOM	270	CD1	TRP	A	34	18.141	-34.663	21.336	1.00115.39	C
ATOM	271	CD2	TRP	A	34	19.431	-32.846	21.297	1.00104.59	C
ATOM	272	CE2	TRP	A	34	18.894	-33.038	20.014	1.00106.42	C
ATOM	273	CE3	TRP	A	34	20.279	-31.756	21.514	1.00 96.96	C
ATOM	274	NE1	TRP	A	34	18.114	-34.160	20.061	1.00115.53	N
ATOM	275	CZ2	TRP	A	34	19.175	-32.185	18.955	1.00101.26	C
ATOM	276	CZ3	TRP	A	34	20.553	-30.906	20.460	1.00 91.69	C
ATOM	277	CH2	TRP	A	34	20.005	-31.126	19.199	1.00 93.98	C
ATOM	278	N	VAL	A	35	22.494	-33.786	23.860	1.00100.17	N
ATOM	279	CA	VAL	A	35	23.788	-33.334	23.324	1.00101.72	C
ATOM	280	C	VAL	A	35	24.774	-34.494	23.278	1.00121.05	C
ATOM	281	O	VAL	A	35	25.525	-34.654	22.320	1.00126.48	O
ATOM	282	CB	VAL	A	35	24.401	-32.163	24.127	1.00113.15	C
ATOM	283	CG1	VAL	A	35	25.759	-31.790	23.564	1.00117.09	C
ATOM	284	CG2	VAL	A	35	23.478	-30.962	24.092	1.00 96.30	C
ATOM	285	N	ALA	A	36	24.757	-35.311	24.320	1.00 95.22	N
ATOM	286	CA	ALA	A	36	25.538	-36.524	24.320	1.00116.33	C
ATOM	287	C	ALA	A	36	25.166	-37.385	23.119	1.00122.93	C
ATOM	288	O	ALA	A	36	25.899	-38.310	22.767	1.00138.75	O
ATOM	289	CB	ALA	A	36	25.326	-37.294	25.617	1.00435.97	C
ATOM	290	N	TRP	A	37	24.030	-37.101	22.485	1.00101.54	N
ATOM	291	CA	TRP	A	37	23.548	-37.980	21.410	1.00108.65	C
ATOM	292	C	TRP	A	37	23.619	-37.401	20.013	1.00103.42	C
ATOM	293	O	TRP	A	37	23.867	-38.121	19.052	1.00116.86	O
ATOM	294	CB	TRP	A	37	22.121	-38.429	21.688	1.00110.74	C
ATOM	295	CG	TRP	A	37	21.449	-39.079	20.535	1.00116.40	C
ATOM	296	CD1	TRP	A	37	21.471	-40.390	20.223	1.00130.92	C
ATOM	297	CD2	TRP	A	37	20.626	-38.444	19.556	1.00108.04	C
ATOM	298	CE2	TRP	A	37	20.191	-39.435	18.677	1.00119.98	C
ATOM	299	CE3	TRP	A	37	20.214	-37.128	19.342	1.00 92.06	C
ATOM	300	NE1	TRP	A	37	20.722	-40.619	19.107	1.00133.08	N

ATOM	301	CZ2	TRP	A	37	19.373	-39.160	17.598	1.00116.95	C
ATOM	302	CZ3	TRP	A	37	19.397	-36.858	18.272	1.00 88.96	C
ATOM	303	CH2	TRP	A	37	18.991	-37.869	17.411	1.00101.57	C
ATOM	304	N	ALA	A	38	23.392	-36.100	19.904	1.00138.62	N
ATOM	305	CA	ALA	A	38	23.299	-35.458	18.601	1.00131.90	C
ATOM	306	C	ALA	A	38	24.631	-34.954	18.061	1.00136.38	C
ATOM	307	O	ALA	A	38	24.677	-34.317	17.011	1.00136.68	O
ATOM	308	CB	ALA	A	38	22.317	-34.325	18.666	1.00 81.33	C
ATOM	309	N	SER	A	39	25.711	-35.236	18.779	1.00112.74	N
ATOM	310	CA	SER	A	39	27.031	-34.754	18.395	1.00117.03	C
ATOM	311	C	SER	A	39	27.724	-35.780	17.523	1.00136.24	C
ATOM	312	O	SER	A	39	28.566	-35.435	16.696	1.00140.66	O
ATOM	313	CB	SER	A	39	27.873	-34.485	19.635	1.00105.46	C
ATOM	314	OG	SER	A	39	27.075	-33.990	20.693	1.00103.07	O
ATOM	315	N	GLU	A	40	27.363	-37.046	17.717	1.00121.82	N
ATOM	316	CA	GLU	A	40	27.928	-38.135	16.933	1.00142.31	C
ATOM	317	C	GLU	A	40	27.226	-38.217	15.589	1.00143.84	C
ATOM	318	O	GLU	A	40	27.333	-39.212	14.878	1.00160.58	O
ATOM	319	CB	GLU	A	40	27.823	-39.465	17.685	1.00171.60	C
ATOM	320	CG	GLU	A	40	28.522	-39.458	19.036	1.00175.09	C
ATOM	321	CD	GLU	A	40	29.031	-40.824	19.445	1.00202.70	C
ATOM	322	OE1	GLU	A	40	28.943	-41.765	18.629	1.00220.26	O
ATOM	323	OE2	GLU	A	40	29.525	-40.956	20.584	1.00208.37	O1-
ATOM	324	N	PHE	A	41	26.507	-37.155	15.250	1.00116.27	N
ATOM	325	CA	PHE	A	41	25.789	-37.069	13.988	1.00117.86	C
ATOM	326	C	PHE	A	41	26.171	-35.803	13.268	1.00110.00	C
ATOM	327	O	PHE	A	41	25.996	-34.704	13.775	1.00110.49	O
ATOM	328	CB	PHE	A	41	24.293	-37.097	14.230	1.00126.36	C
ATOM	329	CG	PHE	A	41	23.784	-38.440	14.576	1.00138.85	C
ATOM	330	CD1	PHE	A	41	22.842	-38.597	15.556	1.00135.31	C
ATOM	331	CD2	PHE	A	41	24.261	-39.553	13.919	1.00156.07	C
ATOM	332	CE1	PHE	A	41	22.383	-39.835	15.877	1.00148.62	C
ATOM	333	CE2	PHE	A	41	23.804	-40.797	14.232	1.00169.71	C
ATOM	334	CZ	PHE	A	41	22.862	-40.942	15.211	1.00166.06	C
ATOM	335	N	TYR	A	42	26.698	-35.952	12.069	1.00139.14	N
ATOM	336	CA	TYR	A	42	27.324	-34.812	11.447	1.00132.97	C
ATOM	337	C	TYR	A	42	26.322	-33.818	10.901	1.00119.69	C
ATOM	338	O	TYR	A	42	26.616	-32.630	10.810	1.00116.65	O
ATOM	339	CB	TYR	A	42	28.301	-35.233	10.355	1.00302.42	C
ATOM	340	CG	TYR	A	42	29.143	-34.065	9.968	1.00300.25	C
ATOM	341	CD1	TYR	A	42	30.313	-33.781	10.651	1.00294.21	C
ATOM	342	CD2	TYR	A	42	28.731	-33.195	8.974	1.00305.94	C
ATOM	343	CE1	TYR	A	42	31.072	-32.687	10.329	1.00293.91	C
ATOM	344	CE2	TYR	A	42	29.479	-32.098	8.645	1.00306.12	C
ATOM	345	CZ	TYR	A	42	30.651	-31.847	9.325	1.00300.12	C
ATOM	346	OH	TYR	A	42	31.410	-30.751	9.003	1.00301.77	O
ATOM	347	N	GLU	A	43	25.144	-34.317	10.541	1.00153.18	N
ATOM	348	CA	GLU	A	43	24.121	-33.526	9.871	1.00140.73	C
ATOM	349	C	GLU	A	43	23.527	-32.450	10.782	1.00128.54	C
ATOM	350	O	GLU	A	43	22.748	-31.609	10.328	1.00116.29	O
ATOM	351	CB	GLU	A	43	23.026	-34.459	9.372	1.00152.32	C
ATOM	352	CG	GLU	A	43	23.554	-35.830	8.973	1.00166.24	C
ATOM	353	CD	GLU	A	43	22.471	-36.755	8.445	1.00170.43	C
ATOM	354	OE1	GLU	A	43	21.299	-36.641	8.878	1.00167.81	O
ATOM	355	OE2	GLU	A	43	22.798	-37.599	7.585	1.00177.54	O1-
ATOM	356	N	PHE	A	44	23.921	-32.484	12.060	1.00121.10	N
ATOM	357	CA	PHE	A	44	23.377	-31.631	13.127	1.00112.73	C
ATOM	358	C	PHE	A	44	24.286	-30.481	13.512	1.00108.09	C
ATOM	359	O	PHE	A	44	24.032	-29.821	14.511	1.00105.64	O
ATOM	360	CB	PHE	A	44	23.179	-32.448	14.403	1.00 88.81	C
ATOM	361	CG	PHE	A	44	22.017	-33.372	14.360	1.00 93.22	C

ATOM	362	CD1	PHE	A	44	21.968	-34.475	15.186	1.00106.67	C
ATOM	363	CD2	PHE	A	44	20.968	-33.134	13.510	1.00 85.48	C
ATOM	364	CE1	PHE	A	44	20.893	-35.323	15.161	1.00112.56	C
ATOM	365	CE2	PHE	A	44	19.901	-33.980	13.479	1.00 90.70	C
ATOM	366	CZ	PHE	A	44	19.861	-35.073	14.311	1.00104.34	C
ATOM	367	N	PHE	A	45	25.359	-30.266	12.761	1.00112.62	N
ATOM	368	CA	PHE	A	45	26.336	-29.243	13.118	1.00109.00	C
ATOM	369	C	PHE	A	45	26.467	-28.139	12.085	1.00105.62	C
ATOM	370	O	PHE	A	45	26.350	-28.376	10.884	1.00105.20	O
ATOM	371	CB	PHE	A	45	27.717	-29.857	13.319	1.00 95.12	C
ATOM	372	CG	PHE	A	45	27.845	-30.681	14.554	1.00100.57	C
ATOM	373	CD1	PHE	A	45	27.682	-32.055	14.500	1.00115.50	C
ATOM	374	CD2	PHE	A	45	28.144	-30.090	15.768	1.00 92.81	C
ATOM	375	CE1	PHE	A	45	27.804	-32.831	15.642	1.00122.83	C
ATOM	376	CE2	PHE	A	45	28.253	-30.861	16.911	1.00 99.79	C
ATOM	377	CZ	PHE	A	45	28.086	-32.235	16.847	1.00114.95	C
ATOM	378	N	PHE	A	46	26.738	-26.935	12.573	1.00155.08	N
ATOM	379	CA	PHE	A	46	27.122	-25.820	11.729	1.00155.68	C
ATOM	380	C	PHE	A	46	28.044	-24.967	12.560	1.00156.35	C
ATOM	381	O	PHE	A	46	27.943	-24.994	13.781	1.00149.88	O
ATOM	382	CB	PHE	A	46	25.910	-25.009	11.354	1.00114.24	C
ATOM	383	CG	PHE	A	46	26.159	-24.038	10.255	1.00113.67	C
ATOM	384	CD1	PHE	A	46	26.004	-24.419	8.934	1.00112.74	C
ATOM	385	CD2	PHE	A	46	26.535	-22.738	10.534	1.00116.06	C
ATOM	386	CE1	PHE	A	46	26.222	-23.521	7.904	1.00114.30	C
ATOM	387	CE2	PHE	A	46	26.750	-21.836	9.512	1.00117.68	C
ATOM	388	CZ	PHE	A	46	26.593	-22.231	8.191	1.00116.88	C
ATOM	389	N	ASN	A	47	28.917	-24.202	11.908	1.00101.63	N
ATOM	390	CA	ASN	A	47	30.007	-23.484	12.593	1.00106.68	C
ATOM	391	C	ASN	A	47	30.564	-24.201	13.831	1.00103.22	C
ATOM	392	O	ASN	A	47	30.632	-23.621	14.922	1.00105.43	O
ATOM	393	CB	ASN	A	47	29.630	-22.036	12.935	1.00126.66	C
ATOM	394	CG	ASN	A	47	29.732	-21.109	11.744	1.00128.63	C
ATOM	395	ND2	ASN	A	47	29.088	-19.954	11.837	1.00131.15	N
ATOM	396	OD1	ASN	A	47	30.388	-21.424	10.752	1.00129.28	O
ATOM	397	N	ASP	A	48	30.943	-25.466	13.643	1.00175.68	N
ATOM	398	CA	ASP	A	48	31.617	-26.275	14.665	1.00174.71	C
ATOM	399	C	ASP	A	48	30.862	-26.409	15.995	1.00165.11	C
ATOM	400	O	ASP	A	48	31.480	-26.431	17.066	1.00166.52	O
ATOM	401	CB	ASP	A	48	33.036	-25.750	14.891	1.00202.00	C
ATOM	402	CG	ASP	A	48	33.733	-25.389	13.587	1.00208.42	C
ATOM	403	OD1	ASP	A	48	33.428	-26.018	12.552	1.00216.81	O
ATOM	404	OD2	ASP	A	48	34.579	-24.471	13.593	1.00206.30	O1-
ATOM	405	N	GLN	A	49	29.533	-26.516	15.903	1.00141.63	N
ATOM	406	CA	GLN	A	49	28.646	-26.648	17.064	1.00132.16	C
ATOM	407	C	GLN	A	49	27.227	-27.043	16.659	1.00128.75	C
ATOM	408	O	GLN	A	49	26.745	-26.642	15.602	1.00129.29	O
ATOM	409	CB	GLN	A	49	28.605	-25.351	17.881	1.00129.66	C
ATOM	410	CG	GLN	A	49	27.611	-25.365	19.036	1.00122.04	C
ATOM	411	CD	GLN	A	49	27.747	-26.590	19.936	1.00129.64	C
ATOM	412	NE2	GLN	A	49	26.771	-26.794	20.802	1.00129.14	N
ATOM	413	OE1	GLN	A	49	28.713	-27.339	19.850	1.00137.12	O
ATOM	414	N	LEU	A	50	26.566	-27.828	17.505	1.00126.52	N
ATOM	415	CA	LEU	A	50	25.189	-28.230	17.253	1.00122.81	C
ATOM	416	C	LEU	A	50	24.334	-27.017	16.927	1.00111.81	C
ATOM	417	O	LEU	A	50	24.649	-25.912	17.358	1.00106.80	O
ATOM	418	CB	LEU	A	50	24.627	-28.933	18.474	1.00 83.26	C
ATOM	419	CG	LEU	A	50	24.998	-30.402	18.599	1.00 96.89	C
ATOM	420	CD1	LEU	A	50	24.455	-30.971	19.889	1.00 97.06	C
ATOM	421	CD2	LEU	A	50	24.443	-31.168	17.419	1.00104.07	C
ATOM	422	N	MET	A	51	23.264	-27.200	16.155	1.00122.42	N

ATOM	423	CA	MET	A	51	22.383	-26.073	15.838	1.00114.07	C
ATOM	424	C	MET	A	51	21.060	-26.135	16.615	1.00105.80	C
ATOM	425	O	MET	A	51	20.753	-27.155	17.230	1.00107.72	O
ATOM	426	CB	MET	A	51	22.155	-25.901	14.314	1.00 73.95	C
ATOM	427	CG	MET	A	51	22.565	-27.082	13.416	1.00 87.79	C
ATOM	428	SD	MET	A	51	22.036	-27.105	11.656	1.00 96.79	S
ATOM	429	CE	MET	A	51	22.650	-25.557	11.028	1.00 91.19	C
ATOM	430	N	ILE	A	52	20.324	-25.015	16.585	1.00 93.52	N
ATOM	431	CA	ILE	A	52	18.999	-24.781	17.201	1.00 85.92	C
ATOM	432	C	ILE	A	52	17.899	-25.842	16.923	1.00 88.58	C
ATOM	433	O	ILE	A	52	17.932	-26.551	15.926	1.00 96.24	O
ATOM	434	CB	ILE	A	52	18.494	-23.403	16.727	1.00110.23	C
ATOM	435	CG1	ILE	A	52	18.855	-22.315	17.710	1.00109.11	C
ATOM	436	CG2	ILE	A	52	17.012	-23.355	16.578	1.00103.91	C
ATOM	437	CD1	ILE	A	52	18.214	-21.010	17.307	1.00106.71	C
ATOM	438	N	THR	A	53	16.900	-25.940	17.787	1.00 98.48	N
ATOM	439	CA	THR	A	53	15.912	-26.987	17.624	1.00101.54	C
ATOM	440	C	THR	A	53	14.474	-26.504	17.413	1.00 96.51	C
ATOM	441	O	THR	A	53	13.545	-27.286	17.471	1.00 98.25	O
ATOM	442	CB	THR	A	53	15.974	-27.925	18.813	1.00 80.27	C
ATOM	443	CG2	THR	A	53	14.911	-28.980	18.735	1.00 84.64	C
ATOM	444	OG1	THR	A	53	17.225	-28.592	18.794	1.00 87.48	O
ATOM	445	N	THR	A	54	14.257	-25.223	17.170	1.00 99.89	N
ATOM	446	CA	THR	A	54	12.905	-24.787	16.834	1.00 96.71	C
ATOM	447	C	THR	A	54	12.958	-23.629	15.892	1.00 97.73	C
ATOM	448	O	THR	A	54	13.678	-22.681	16.146	1.00 96.60	O
ATOM	449	CB	THR	A	54	12.091	-24.318	18.045	1.00121.81	C
ATOM	450	CG2	THR	A	54	10.775	-23.734	17.570	1.00119.64	C
ATOM	451	OG1	THR	A	54	11.803	-25.430	18.889	1.00122.60	O
ATOM	452	N	ASN	A	55	12.182	-23.697	14.822	1.00 98.54	N
ATOM	453	CA	ASN	A	55	12.148	-22.643	13.828	1.00102.33	C
ATOM	454	C	ASN	A	55	12.119	-21.258	14.494	1.00 97.61	C
ATOM	455	O	ASN	A	55	12.984	-20.400	14.255	1.00101.28	O
ATOM	456	CB	ASN	A	55	10.941	-22.888	12.894	1.00 81.50	C
ATOM	457	CG	ASN	A	55	10.827	-24.377	12.438	1.00 88.23	C
ATOM	458	ND2	ASN	A	55	10.616	-24.597	11.137	1.00 95.75	N
ATOM	459	OD1	ASN	A	55	10.947	-25.299	13.248	1.00 88.29	O
ATOM	460	N	ASP	A	56	11.126	-21.076	15.362	1.00121.13	N
ATOM	461	CA	ASP	A	56	10.965	-19.887	16.207	1.00117.88	C
ATOM	462	C	ASP	A	56	12.297	-19.259	16.601	1.00117.07	C
ATOM	463	O	ASP	A	56	12.484	-18.068	16.418	1.00118.42	O
ATOM	464	CB	ASP	A	56	10.151	-20.220	17.474	1.00136.91	C
ATOM	465	CG	ASP	A	56	8.698	-19.723	17.396	1.00138.43	C
ATOM	466	OD1	ASP	A	56	8.221	-19.437	16.265	1.00144.15	O
ATOM	467	OD2	ASP	A	56	8.029	-19.621	18.457	1.00135.05	O1-
ATOM	468	N	GLY	A	57	13.207	-20.064	17.149	1.00 70.21	N
ATOM	469	CA	GLY	A	57	14.538	-19.626	17.554	1.00 70.81	C
ATOM	470	C	GLY	A	57	15.299	-18.725	16.608	1.00 75.99	C
ATOM	471	O	GLY	A	57	15.845	-17.727	17.039	1.00 75.97	O
ATOM	472	N	TYR	A	58	15.328	-19.052	15.319	1.00 85.11	N
ATOM	473	CA	TYR	A	58	16.133	-18.231	14.403	1.00 92.16	C
ATOM	474	C	TYR	A	58	15.608	-16.814	14.322	1.00 92.98	C
ATOM	475	O	TYR	A	58	16.300	-15.908	13.889	1.00 98.40	O
ATOM	476	CB	TYR	A	58	16.208	-18.852	13.012	1.00101.12	C
ATOM	477	CG	TYR	A	58	16.982	-20.141	12.969	1.00102.31	C
ATOM	478	CD1	TYR	A	58	16.444	-21.300	13.476	1.00 98.50	C
ATOM	479	CD2	TYR	A	58	18.236	-20.208	12.398	1.00108.80	C
ATOM	480	CE1	TYR	A	58	17.123	-22.473	13.435	1.00101.81	C
ATOM	481	CE2	TYR	A	58	18.926	-21.401	12.359	1.00111.61	C
ATOM	482	CZ	TYR	A	58	18.357	-22.528	12.876	1.00108.49	C
ATOM	483	OH	TYR	A	58	19.015	-23.734	12.838	1.00113.67	O

ATOM	484	N	ALA	A	59	14.376	-16.633	14.755	1.00	97.50	N
ATOM	485	CA	ALA	A	59	13.774	-15.321	14.851	1.00	99.70	C
ATOM	486	C	ALA	A	59	14.632	-14.442	15.737	1.00	99.26	C
ATOM	487	O	ALA	A	59	15.018	-13.336	15.349	1.00	105.85	O
ATOM	488	CB	ALA	A	59	12.376	-15.461	15.461	1.00	74.47	C
ATOM	489	N	PHE	A	60	14.940	-14.975	16.923	1.00	102.55	N
ATOM	490	CA	PHE	A	60	15.732	-14.286	17.935	1.00	102.12	C
ATOM	491	C	PHE	A	60	17.197	-14.296	17.567	1.00	105.60	C
ATOM	492	O	PHE	A	60	17.818	-13.238	17.479	1.00	109.68	O
ATOM	493	CB	PHE	A	60	15.558	-14.968	19.276	1.00	92.68	C
ATOM	494	CG	PHE	A	60	14.131	-15.073	19.710	1.00	89.24	C
ATOM	495	CD1	PHE	A	60	13.565	-16.301	19.976	1.00	85.26	C
ATOM	496	CD2	PHE	A	60	13.352	-13.938	19.853	1.00	91.51	C
ATOM	497	CE1	PHE	A	60	12.259	-16.391	20.376	1.00	82.47	C
ATOM	498	CE2	PHE	A	60	12.040	-14.029	20.249	1.00	89.42	C
ATOM	499	CZ	PHE	A	60	11.495	-15.252	20.511	1.00	84.23	C
ATOM	500	N	ALA	A	61	17.742	-15.493	17.365	1.00	93.88	N
ATOM	501	CA	ALA	A	61	19.074	-15.661	16.806	1.00	98.37	C
ATOM	502	C	ALA	A	61	19.338	-14.528	15.831	1.00	106.23	C
ATOM	503	O	ALA	A	61	20.045	-13.577	16.169	1.00	110.50	O
ATOM	504	CB	ALA	A	61	19.175	-16.997	16.124	1.00	45.68	C
ATOM	505	N	GLU	A	62	18.729	-14.593	14.653	1.00	93.49	N
ATOM	506	CA	GLU	A	62	18.775	-13.489	13.711	1.00	102.17	C
ATOM	507	C	GLU	A	62	18.842	-12.170	14.410	1.00	104.12	C
ATOM	508	O	GLU	A	62	19.898	-11.556	14.472	1.00	109.96	O
ATOM	509	CB	GLU	A	62	17.556	-13.465	12.810	1.00	111.48	C
ATOM	510	CG	GLU	A	62	17.554	-12.196	11.975	1.00	121.81	C
ATOM	511	CD	GLU	A	62	16.278	-12.008	11.183	1.00	126.92	C
ATOM	512	OE1	GLU	A	62	15.184	-12.131	11.793	1.00	121.24	O
ATOM	513	OE2	GLU	A	62	16.377	-11.697	9.969	1.00	137.69	O1-
ATOM	514	N	GLY	A	63	17.719	-11.758	14.988	1.00	121.03	N
ATOM	515	CA	GLY	A	63	17.657	-10.512	15.736	1.00	124.88	C
ATOM	516	C	GLY	A	63	18.918	-10.224	16.516	1.00	124.71	C
ATOM	517	O	GLY	A	63	19.580	-9.239	16.230	1.00	132.75	O
ATOM	518	N	ALA	A	64	19.267	-11.104	17.464	1.00	80.31	N
ATOM	519	CA	ALA	A	64	20.474	-10.955	18.302	1.00	80.31	C
ATOM	520	C	ALA	A	64	21.719	-10.744	17.473	1.00	87.47	C
ATOM	521	O	ALA	A	64	22.465	-9.809	17.745	1.00	93.06	O
ATOM	522	CB	ALA	A	64	20.644	-12.147	19.228	1.00	66.17	C
ATOM	523	N	ARG	A	65	21.969	-11.625	16.504	1.00	90.84	N
ATOM	524	CA	ARG	A	65	23.067	-11.411	15.583	1.00	99.02	C
ATOM	525	C	ARG	A	65	23.053	-9.973	15.103	1.00	109.17	C
ATOM	526	O	ARG	A	65	24.034	-9.268	15.287	1.00	117.11	O
ATOM	527	CB	ARG	A	65	22.961	-12.384	14.420	1.00	110.00	C
ATOM	528	CG	ARG	A	65	24.015	-12.179	13.372	1.00	118.61	C
ATOM	529	CD	ARG	A	65	23.540	-12.699	12.033	1.00	121.07	C
ATOM	530	NE	ARG	A	65	22.326	-12.002	11.631	1.00	123.41	N
ATOM	531	CZ	ARG	A	65	21.478	-12.462	10.726	1.00	127.90	C
ATOM	532	NH1	ARG	A	65	21.715	-13.624	10.140	1.00	130.53	N1+
ATOM	533	NH2	ARG	A	65	20.396	-11.764	10.409	1.00	131.35	N
ATOM	534	N	ASP	A	66	21.927	-9.512	14.555	1.00	128.63	N
ATOM	535	CA	ASP	A	66	21.818	-8.117	14.126	1.00	139.72	C
ATOM	536	C	ASP	A	66	22.124	-7.124	15.247	1.00	142.34	C
ATOM	537	O	ASP	A	66	22.884	-6.189	15.036	1.00	152.81	O
ATOM	538	CB	ASP	A	66	20.434	-7.861	13.529	1.00	157.12	C
ATOM	539	CG	ASP	A	66	20.267	-8.499	12.150	1.00	160.88	C
ATOM	540	OD1	ASP	A	66	21.296	-8.762	11.496	1.00	164.50	O
ATOM	541	OD2	ASP	A	66	19.120	-8.728	11.705	1.00	161.04	O1-
ATOM	542	N	MET	A	67	21.601	-7.362	16.452	1.00	110.94	N
ATOM	543	CA	MET	A	67	21.951	-6.542	17.627	1.00	113.19	C
ATOM	544	C	MET	A	67	23.452	-6.491	17.887	1.00	116.80	C

ATOM	545	O	MET	A	67	24.002	-5.458	18.271	1.00125.68	O
ATOM	546	CB	MET	A	67	21.247	-7.077	18.886	1.00121.90	C
ATOM	547	CG	MET	A	67	19.743	-6.887	18.937	1.00120.69	C
ATOM	548	SD	MET	A	67	19.225	-6.815	20.652	1.00113.92	S
ATOM	549	CE	MET	A	67	20.722	-6.152	21.358	1.00118.59	C
ATOM	550	N	ILE	A	68	24.108	-7.631	17.679	1.00104.27	N
ATOM	551	CA	ILE	A	68	25.552	-7.714	17.816	1.00108.81	C
ATOM	552	C	ILE	A	68	26.241	-6.876	16.751	1.00121.14	C
ATOM	553	O	ILE	A	68	27.264	-6.262	17.031	1.00129.10	O
ATOM	554	CB	ILE	A	68	25.988	-9.180	17.714	1.00102.93	C
ATOM	555	CG1	ILE	A	68	25.552	-9.955	18.972	1.00 92.83	C
ATOM	556	CG2	ILE	A	68	27.471	-9.272	17.525	1.00109.40	C
ATOM	557	CD1	ILE	A	68	25.391	-11.459	18.770	1.00 85.56	C
ATOM	558	N	ALA	A	69	25.663	-6.848	15.539	1.00112.95	N
ATOM	559	CA	ALA	A	69	26.218	-6.023	14.452	1.00125.86	C
ATOM	560	C	ALA	A	69	26.124	-4.558	14.855	1.00133.87	C
ATOM	561	O	ALA	A	69	27.125	-3.848	14.885	1.00144.88	O
ATOM	562	CB	ALA	A	69	25.469	-6.241	13.147	1.00167.62	C
ATOM	563	N	GLY	A	70	24.916	-4.101	15.164	1.00148.45	N
ATOM	564	CA	GLY	A	70	24.689	-2.684	15.343	1.00158.42	C
ATOM	565	C	GLY	A	70	23.367	-2.295	14.740	1.00166.40	C
ATOM	566	O	GLY	A	70	22.631	-1.527	15.348	1.00175.08	O
ATOM	567	N	PHE	A	71	23.034	-2.807	13.562	1.00153.66	N
ATOM	568	CA	PHE	A	71	21.701	-2.503	13.083	1.00160.75	C
ATOM	569	C	PHE	A	71	21.078	-3.604	12.201	1.00151.37	C
ATOM	570	O	PHE	A	71	21.802	-4.435	11.665	1.00139.97	O
ATOM	571	CB	PHE	A	71	21.690	-1.111	12.423	1.00192.32	C
ATOM	572	CG	PHE	A	71	20.347	-0.402	12.490	1.00205.64	C
ATOM	573	CD1	PHE	A	71	19.970	0.374	13.588	1.00207.90	C
ATOM	574	CD2	PHE	A	71	19.466	-0.496	11.431	1.00217.69	C
ATOM	575	CE1	PHE	A	71	18.723	1.016	13.607	1.00221.54	C
ATOM	576	CE2	PHE	A	71	18.229	0.147	11.458	1.00231.61	C
ATOM	577	CZ	PHE	A	71	17.861	0.895	12.534	1.00233.25	C
ATOM	578	N	HIS	A	72	19.731	-3.609	12.144	1.00175.76	N
ATOM	579	CA	HIS	A	72	18.847	-4.481	11.335	1.00169.63	C
ATOM	580	C	HIS	A	72	18.383	-3.637	10.153	1.00183.22	C
ATOM	581	O	HIS	A	72	18.355	-2.436	10.276	1.00195.25	O
ATOM	582	CB	HIS	A	72	17.623	-4.924	12.171	1.00160.59	C
ATOM	583	CG	HIS	A	72	16.533	-3.890	12.285	1.00173.36	C
ATOM	584	CD2	HIS	A	72	16.222	-3.001	13.262	1.00176.52	C
ATOM	585	ND1	HIS	A	72	15.580	-3.711	11.302	1.00185.40	N
ATOM	586	CE1	HIS	A	72	14.748	-2.751	11.656	1.00197.39	C
ATOM	587	NE2	HIS	A	72	15.113	-2.302	12.844	1.00191.88	N
ATOM	588	N	GLN	A	73	17.986	-4.203	9.020	1.00225.33	N
ATOM	589	CA	GLN	A	73	17.613	-3.299	7.919	1.00238.98	C
ATOM	590	C	GLN	A	73	16.251	-2.653	7.956	1.00246.65	C
ATOM	591	O	GLN	A	73	15.393	-2.985	8.757	1.00237.91	O
ATOM	592	CB	GLN	A	73	17.765	-3.939	6.558	1.00169.68	C
ATOM	593	CG	GLN	A	73	19.196	-4.050	6.139	1.00163.83	C
ATOM	594	CD	GLN	A	73	19.689	-5.470	6.303	1.00149.22	C
ATOM	595	NE2	GLN	A	73	20.688	-5.842	5.491	1.00144.40	N
ATOM	596	OE1	GLN	A	73	19.167	-6.242	7.141	1.00143.42	O
ATOM	597	N	PRO	A	74	16.055	-1.696	7.064	1.00125.92	N
ATOM	598	CA	PRO	A	74	14.696	-1.187	6.948	1.00137.19	C
ATOM	599	C	PRO	A	74	13.626	-2.231	6.668	1.00136.54	C
ATOM	600	O	PRO	A	74	13.773	-2.973	5.722	1.00142.97	O
ATOM	601	CB	PRO	A	74	14.794	-0.203	5.756	1.00217.78	C
ATOM	602	CG	PRO	A	74	16.196	-0.416	5.164	1.00217.33	C
ATOM	603	CD	PRO	A	74	17.007	-0.866	6.311	1.00197.80	C
ATOM	604	N	ASN	A	75	12.566	-2.283	7.463	1.00142.90	N
ATOM	605	CA	ASN	A	75	11.371	-2.965	6.999	1.00143.81	C

ATOM	606	C	ASN	A	75	11.525	-4.466	6.703	1.00129.01	C
ATOM	607	O	ASN	A	75	10.604	-5.082	6.149	1.00130.46	O
ATOM	608	CB	ASN	A	75	10.864	-2.275	5.736	1.00154.03	C
ATOM	609	CG	ASN	A	75	9.526	-1.593	5.932	1.00161.88	C
ATOM	610	ND2	ASN	A	75	9.334	-0.487	5.235	1.00186.03	N
ATOM	611	OD1	ASN	A	75	8.667	-2.059	6.683	1.00147.57	O
ATOM	612	N	ASP	A	76	12.679	-5.048	7.019	1.00205.80	N
ATOM	613	CA	ASP	A	76	12.796	-6.501	7.089	1.00190.39	C
ATOM	614	C	ASP	A	76	12.426	-6.814	8.526	1.00175.09	C
ATOM	615	O	ASP	A	76	12.682	-6.015	9.423	1.00173.10	O
ATOM	616	CB	ASP	A	76	14.211	-6.957	6.745	1.00185.95	C
ATOM	617	CG	ASP	A	76	15.101	-7.064	7.959	1.00174.52	C
ATOM	618	OD1	ASP	A	76	14.981	-6.228	8.878	1.00174.47	O
ATOM	619	OD2	ASP	A	76	15.928	-7.992	7.992	1.00167.19	O1-
ATOM	620	N	LEU	A	77	11.794	-7.947	8.761	1.00140.31	N
ATOM	621	CA	LEU	A	77	11.060	-8.090	10.008	1.00130.07	C
ATOM	622	C	LEU	A	77	11.884	-8.604	11.199	1.00115.26	C
ATOM	623	O	LEU	A	77	11.413	-9.484	11.940	1.00103.23	O
ATOM	624	CB	LEU	A	77	9.851	-9.001	9.796	1.00115.34	C
ATOM	625	CG	LEU	A	77	8.714	-8.622	8.852	1.00128.62	C
ATOM	626	CD1	LEU	A	77	7.563	-9.571	9.130	1.00121.46	C
ATOM	627	CD2	LEU	A	77	8.269	-7.183	9.025	1.00145.13	C
ATOM	628	N	SER	A	78	13.083	-8.057	11.417	1.00119.20	N
ATOM	629	CA	SER	A	78	13.988	-8.650	12.416	1.00106.55	C
ATOM	630	C	SER	A	78	13.599	-8.371	13.867	1.00100.21	C
ATOM	631	O	SER	A	78	13.012	-7.339	14.178	1.00108.34	O
ATOM	632	CB	SER	A	78	15.462	-8.304	12.141	1.00 99.73	C
ATOM	633	OG	SER	A	78	15.860	-7.123	12.791	1.00109.96	O
ATOM	634	N	TYR	A	79	13.916	-9.316	14.744	1.00131.76	N
ATOM	635	CA	TYR	A	79	13.585	-9.189	16.162	1.00125.81	C
ATOM	636	C	TYR	A	79	14.690	-8.482	16.948	1.00128.01	C
ATOM	637	O	TYR	A	79	14.921	-8.790	18.124	1.00120.83	O
ATOM	638	CB	TYR	A	79	13.296	-10.558	16.799	1.00108.55	C
ATOM	639	CG	TYR	A	79	11.888	-11.087	16.586	1.00106.79	C
ATOM	640	CD1	TYR	A	79	11.258	-10.984	15.339	1.00114.16	C
ATOM	641	CD2	TYR	A	79	11.205	-11.723	17.617	1.00 98.98	C
ATOM	642	CE1	TYR	A	79	9.981	-11.477	15.137	1.00113.68	C
ATOM	643	CE2	TYR	A	79	9.930	-12.218	17.424	1.00 98.15	C
ATOM	644	CZ	TYR	A	79	9.324	-12.093	16.183	1.00105.49	C
ATOM	645	OH	TYR	A	79	8.055	-12.590	15.976	1.00104.86	O
ATOM	646	N	PHE	A	80	15.381	-7.557	16.292	1.00101.04	N
ATOM	647	CA	PHE	A	80	16.322	-6.676	16.963	1.00105.88	C
ATOM	648	C	PHE	A	80	15.660	-6.021	18.184	1.00106.64	C
ATOM	649	O	PHE	A	80	14.653	-5.325	18.066	1.00114.91	O
ATOM	650	CB	PHE	A	80	16.769	-5.615	15.957	1.00120.56	C
ATOM	651	CG	PHE	A	80	17.784	-4.647	16.481	1.00126.87	C
ATOM	652	CD1	PHE	A	80	19.093	-5.033	16.658	1.00121.83	C
ATOM	653	CD2	PHE	A	80	17.433	-3.340	16.756	1.00139.06	C
ATOM	654	CE1	PHE	A	80	20.023	-4.148	17.124	1.00127.48	C
ATOM	655	CE2	PHE	A	80	18.364	-2.450	17.222	1.00144.87	C
ATOM	656	CZ	PHE	A	80	19.660	-2.855	17.410	1.00138.68	C
ATOM	657	N	GLY	A	81	16.218	-6.260	19.363	1.00125.67	N
ATOM	658	CA	GLY	A	81	15.681	-5.669	20.571	1.00125.80	C
ATOM	659	C	GLY	A	81	14.761	-6.586	21.355	1.00111.58	C
ATOM	660	O	GLY	A	81	14.480	-6.343	22.524	1.00100.16	O
ATOM	661	N	SER	A	82	14.286	-7.652	20.724	1.00105.20	N
ATOM	662	CA	SER	A	82	13.547	-8.683	21.453	1.00 94.15	C
ATOM	663	C	SER	A	82	14.152	-8.987	22.829	1.00 81.44	C
ATOM	664	O	SER	A	82	15.356	-8.869	23.047	1.00 85.46	O
ATOM	665	CB	SER	A	82	13.483	-9.981	20.649	1.00119.30	C
ATOM	666	OG	SER	A	82	12.546	-10.870	21.227	1.00121.79	O

ATOM	667	N	SER	A	83	13.286	-9.375	23.750	1.00102.67	N
ATOM	668	CA	SER	A	83	13.680	-9.901	25.044	1.00 91.73	C
ATOM	669	C	SER	A	83	14.857	-10.872	24.940	1.00 96.69	C
ATOM	670	O	SER	A	83	15.972	-10.621	25.444	1.00101.60	O
ATOM	671	CB	SER	A	83	12.472	-10.638	25.630	1.00 75.09	C
ATOM	672	OG	SER	A	83	11.390	-10.694	24.696	1.00 78.39	O
ATOM	673	N	LEU	A	84	14.591	-11.992	24.277	1.00 95.54	N
ATOM	674	CA	LEU	A	84	15.564	-13.067	24.150	1.00 98.90	C
ATOM	675	C	LEU	A	84	16.786	-12.577	23.404	1.00105.85	C
ATOM	676	O	LEU	A	84	17.905	-12.860	23.809	1.00106.64	O
ATOM	677	CB	LEU	A	84	14.958	-14.294	23.457	1.00 99.36	C
ATOM	678	CG	LEU	A	84	15.853	-15.532	23.332	1.00 97.82	C
ATOM	679	CD1	LEU	A	84	16.480	-15.909	24.664	1.00 98.53	C
ATOM	680	CD2	LEU	A	84	15.071	-16.692	22.767	1.00 93.88	C
ATOM	681	N	SER	A	85	16.569	-11.835	22.323	1.00 89.10	N
ATOM	682	CA	SER	A	85	17.681	-11.325	21.539	1.00 94.99	C
ATOM	683	C	SER	A	85	18.600	-10.506	22.433	1.00 99.42	C
ATOM	684	O	SER	A	85	19.820	-10.750	22.528	1.00102.31	O
ATOM	685	CB	SER	A	85	17.168	-10.473	20.386	1.00105.12	C
ATOM	686	OG	SER	A	85	16.525	-11.268	19.411	1.00104.87	O
ATOM	687	N	THR	A	86	17.992	-9.535	23.101	1.00 92.57	N
ATOM	688	CA	THR	A	86	18.698	-8.696	24.048	1.00 96.07	C
ATOM	689	C	THR	A	86	19.505	-9.538	25.019	1.00 90.83	C
ATOM	690	O	THR	A	86	20.711	-9.384	25.092	1.00 94.07	O
ATOM	691	CB	THR	A	86	17.735	-7.793	24.798	1.00 91.78	C
ATOM	692	CG2	THR	A	86	18.497	-6.826	25.640	1.00 92.47	C
ATOM	693	OG1	THR	A	86	16.946	-7.060	23.856	1.00 98.44	O
ATOM	694	N	LEU	A	87	18.859	-10.455	25.733	1.00 81.42	N
ATOM	695	CA	LEU	A	87	19.608	-11.263	26.697	1.00 77.90	C
ATOM	696	C	LEU	A	87	20.767	-12.107	26.108	1.00 79.23	C
ATOM	697	O	LEU	A	87	21.821	-12.311	26.748	1.00 81.28	O
ATOM	698	CB	LEU	A	87	18.667	-12.142	27.518	1.00 76.63	C
ATOM	699	CG	LEU	A	87	19.381	-12.896	28.647	1.00 75.08	C
ATOM	700	CD1	LEU	A	87	19.871	-11.911	29.709	1.00 76.60	C
ATOM	701	CD2	LEU	A	87	18.519	-13.978	29.270	1.00 64.24	C
ATOM	702	N	THR	A	88	20.581	-12.606	24.893	1.00117.49	N
ATOM	703	CA	THR	A	88	21.623	-13.396	24.242	1.00119.95	C
ATOM	704	C	THR	A	88	22.793	-12.480	23.964	1.00127.16	C
ATOM	705	O	THR	A	88	23.943	-12.863	24.104	1.00130.82	O
ATOM	706	CB	THR	A	88	21.152	-14.015	22.899	1.00100.23	C
ATOM	707	CG2	THR	A	88	20.976	-15.508	23.011	1.00 93.68	C
ATOM	708	OG1	THR	A	88	19.898	-13.443	22.534	1.00101.36	O
ATOM	709	N	TYR	A	89	22.482	-11.253	23.573	1.00 86.67	N
ATOM	710	CA	TYR	A	89	23.520	-10.322	23.146	1.00 94.42	C
ATOM	711	C	TYR	A	89	24.227	-9.654	24.315	1.00 96.81	C
ATOM	712	O	TYR	A	89	25.331	-9.137	24.159	1.00104.04	O
ATOM	713	CB	TYR	A	89	22.914	-9.300	22.202	1.00112.31	C
ATOM	714	CG	TYR	A	89	23.537	-7.946	22.246	1.00121.75	C
ATOM	715	CD1	TYR	A	89	24.466	-7.564	21.297	1.00129.36	C
ATOM	716	CD2	TYR	A	89	23.173	-7.032	23.219	1.00124.47	C
ATOM	717	CE1	TYR	A	89	25.027	-6.303	21.324	1.00139.45	C
ATOM	718	CE2	TYR	A	89	23.723	-5.774	23.256	1.00134.92	C
ATOM	719	CZ	TYR	A	89	24.650	-5.410	22.310	1.00142.41	C
ATOM	720	OH	TYR	A	89	25.193	-4.146	22.352	1.00154.31	O
ATOM	721	N	TRP	A	90	23.575	-9.653	25.477	1.00 94.69	N
ATOM	722	CA	TRP	A	90	24.265	-9.385	26.733	1.00 96.59	C
ATOM	723	C	TRP	A	90	25.175	-10.571	27.003	1.00 96.79	C
ATOM	724	O	TRP	A	90	26.384	-10.451	26.871	1.00103.80	O
ATOM	725	CB	TRP	A	90	23.296	-9.164	27.910	1.00104.70	C
ATOM	726	CG	TRP	A	90	22.476	-7.889	27.830	1.00108.19	C
ATOM	727	CD1	TRP	A	90	22.784	-6.750	27.136	1.00111.60	C

ATOM	728	CD2	TRP	A	90	21.211	-7.643	28.450	1.00109.76	C
ATOM	729	CE2	TRP	A	90	20.812	-6.336	28.085	1.00112.25	C
ATOM	730	CE3	TRP	A	90	20.379	-8.396	29.276	1.00104.82	C
ATOM	731	NE1	TRP	A	90	21.791	-5.811	27.287	1.00117.01	N
ATOM	732	CZ2	TRP	A	90	19.625	-5.773	28.515	1.00105.35	C
ATOM	733	CZ3	TRP	A	90	19.198	-7.833	29.701	1.00 98.02	C
ATOM	734	CH2	TRP	A	90	18.831	-6.532	29.319	1.00 98.41	C
ATOM	735	N	LEU	A	91	24.607	-11.727	27.337	1.00 99.58	N
ATOM	736	CA	LEU	A	91	25.449	-12.879	27.693	1.00101.82	C
ATOM	737	C	LEU	A	91	26.572	-13.205	26.692	1.00109.61	C
ATOM	738	O	LEU	A	91	27.490	-13.946	27.006	1.00114.35	O
ATOM	739	CB	LEU	A	91	24.590	-14.125	27.875	1.00110.19	C
ATOM	740	CG	LEU	A	91	23.694	-14.235	29.098	1.00104.68	C
ATOM	741	CD1	LEU	A	91	22.332	-14.742	28.645	1.00 97.98	C
ATOM	742	CD2	LEU	A	91	24.314	-15.147	30.164	1.00108.81	C
ATOM	743	N	TYR	A	92	26.480	-12.664	25.487	1.00 84.56	N
ATOM	744	CA	TYR	A	92	27.438	-12.939	24.432	1.00 90.43	C
ATOM	745	C	TYR	A	92	28.669	-12.075	24.609	1.00 99.67	C
ATOM	746	O	TYR	A	92	29.811	-12.502	24.404	1.00106.23	O
ATOM	747	CB	TYR	A	92	26.803	-12.601	23.094	1.00105.43	C
ATOM	748	CG	TYR	A	92	27.734	-12.725	21.901	1.00111.30	C
ATOM	749	CD1	TYR	A	92	28.483	-13.875	21.698	1.00113.23	C
ATOM	750	CD2	TYR	A	92	27.833	-11.706	20.964	1.00116.04	C
ATOM	751	CE1	TYR	A	92	29.316	-14.004	20.603	1.00119.10	C
ATOM	752	CE2	TYR	A	92	28.662	-11.823	19.870	1.00122.27	C
ATOM	753	CZ	TYR	A	92	29.406	-12.973	19.693	1.00124.09	C
ATOM	754	OH	TYR	A	92	30.243	-13.100	18.603	1.00131.62	O
ATOM	755	N	SER	A	93	28.414	-10.833	24.978	1.00112.84	N
ATOM	756	CA	SER	A	93	29.465	-9.868	25.143	1.00122.46	C
ATOM	757	C	SER	A	93	29.964	-9.945	26.573	1.00124.38	C
ATOM	758	O	SER	A	93	30.751	-9.128	27.008	1.00133.38	O
ATOM	759	CB	SER	A	93	28.921	-8.484	24.819	1.00110.95	C
ATOM	760	OG	SER	A	93	28.247	-8.501	23.572	1.00107.20	O
ATOM	761	N	ILE	A	94	29.498	-10.941	27.306	1.00110.29	N
ATOM	762	CA	ILE	A	94	29.944	-11.152	28.671	1.00112.32	C
ATOM	763	C	ILE	A	94	30.641	-12.508	28.731	1.00117.21	C
ATOM	764	O	ILE	A	94	31.214	-12.872	29.745	1.00122.77	O
ATOM	765	CB	ILE	A	94	28.749	-11.125	29.675	1.00113.83	C
ATOM	766	CG1	ILE	A	94	28.175	-9.715	29.819	1.00114.40	C
ATOM	767	CG2	ILE	A	94	29.151	-11.642	31.041	1.00114.75	C
ATOM	768	CD1	ILE	A	94	26.979	-9.625	30.788	1.00106.62	C
ATOM	769	N	LEU	A	95	30.601	-13.258	27.638	1.00133.89	N
ATOM	770	CA	LEU	A	95	31.073	-14.640	27.680	1.00135.46	C
ATOM	771	C	LEU	A	95	31.952	-15.023	26.499	1.00138.82	C
ATOM	772	O	LEU	A	95	31.805	-14.480	25.402	1.00137.54	O
ATOM	773	CB	LEU	A	95	29.892	-15.606	27.784	1.00117.75	C
ATOM	774	CG	LEU	A	95	29.015	-15.445	29.021	1.00111.88	C
ATOM	775	CD1	LEU	A	95	27.646	-16.015	28.736	1.00103.13	C
ATOM	776	CD2	LEU	A	95	29.652	-16.102	30.226	1.00116.93	C
ATOM	777	N	PRO	A	96	32.855	-15.990	26.724	1.00122.19	N
ATOM	778	CA	PRO	A	96	33.905	-16.398	25.794	1.00127.07	C
ATOM	779	C	PRO	A	96	33.427	-17.509	24.891	1.00121.11	C
ATOM	780	O	PRO	A	96	34.249	-18.153	24.245	1.00123.00	O
ATOM	781	CB	PRO	A	96	34.964	-16.957	26.735	1.00 92.33	C
ATOM	782	CG	PRO	A	96	34.162	-17.633	27.783	1.00 89.29	C
ATOM	783	CD	PRO	A	96	32.911	-16.787	27.962	1.00 82.50	C
ATOM	784	N	PHE	A	97	32.119	-17.734	24.858	1.00116.09	N
ATOM	785	CA	PHE	A	97	31.559	-18.830	24.093	1.00111.01	C
ATOM	786	C	PHE	A	97	30.943	-18.290	22.812	1.00107.62	C
ATOM	787	O	PHE	A	97	30.506	-17.139	22.775	1.00105.16	O
ATOM	788	CB	PHE	A	97	30.488	-19.534	24.912	1.00119.72	C

ATOM	789	CG	PHE	A	97	30.937	-19.960	26.285	1.00124.76	C
ATOM	790	CD1	PHE	A	97	30.373	-19.399	27.419	1.00123.81	C
ATOM	791	CD2	PHE	A	97	31.904	-20.939	26.444	1.00132.11	C
ATOM	792	CE1	PHE	A	97	30.771	-19.802	28.680	1.00130.11	C
ATOM	793	CE2	PHE	A	97	32.306	-21.343	27.702	1.00138.60	C
ATOM	794	CZ	PHE	A	97	31.738	-20.775	28.818	1.00137.59	C
ATOM	795	N	SER	A	98	30.900	-19.119	21.768	1.00123.23	N
ATOM	796	CA	SER	A	98	30.405	-18.677	20.460	1.00122.85	C
ATOM	797	C	SER	A	98	28.893	-18.547	20.426	1.00114.90	C
ATOM	798	O	SER	A	98	28.163	-19.310	21.074	1.00108.90	O
ATOM	799	CB	SER	A	98	30.852	-19.622	19.338	1.00146.51	C
ATOM	800	OG	SER	A	98	29.899	-20.647	19.103	1.00146.90	O
ATOM	801	N	PHE	A	99	28.431	-17.572	19.655	1.00129.76	N
ATOM	802	CA	PHE	A	99	27.002	-17.354	19.470	1.00124.17	C
ATOM	803	C	PHE	A	99	26.270	-18.685	19.447	1.00118.01	C
ATOM	804	O	PHE	A	99	25.412	-18.932	20.272	1.00116.38	O
ATOM	805	CB	PHE	A	99	26.772	-16.597	18.167	1.00 99.14	C
ATOM	806	CG	PHE	A	99	25.360	-16.147	17.954	1.00 96.31	C
ATOM	807	CD1	PHE	A	99	24.926	-14.927	18.456	1.00 98.17	C
ATOM	808	CD2	PHE	A	99	24.476	-16.926	17.213	1.00 93.60	C
ATOM	809	CE1	PHE	A	99	23.622	-14.503	18.239	1.00 96.16	C
ATOM	810	CE2	PHE	A	99	23.185	-16.510	16.982	1.00 92.25	C
ATOM	811	CZ	PHE	A	99	22.747	-15.304	17.495	1.00 93.30	C
ATOM	812	N	GLU	A	100	26.655	-19.553	18.522	1.00103.62	N
ATOM	813	CA	GLU	A	100	25.983	-20.828	18.318	1.00 99.70	C
ATOM	814	C	GLU	A	100	25.852	-21.684	19.595	1.00 99.80	C
ATOM	815	O	GLU	A	100	24.817	-22.356	19.808	1.00 97.97	O
ATOM	816	CB	GLU	A	100	26.669	-21.625	17.189	1.00133.11	C
ATOM	817	CG	GLU	A	100	26.548	-21.021	15.770	1.00135.63	C
ATOM	818	CD	GLU	A	100	27.716	-20.115	15.405	1.00136.42	C
ATOM	819	OE1	GLU	A	100	28.709	-20.094	16.158	1.00136.59	O
ATOM	820	OE2	GLU	A	100	27.648	-19.426	14.365	1.00138.15	O1-
ATOM	821	N	SER	A	101	26.879	-21.653	20.445	1.00116.94	N
ATOM	822	CA	SER	A	101	26.875	-22.452	21.670	1.00118.27	C
ATOM	823	C	SER	A	101	26.048	-21.799	22.775	1.00111.39	C
ATOM	824	O	SER	A	101	25.401	-22.493	23.574	1.00110.42	O
ATOM	825	CB	SER	A	101	28.291	-22.693	22.162	1.00116.10	C
ATOM	826	OG	SER	A	101	29.219	-22.393	21.144	1.00115.97	O
ATOM	827	N	ILE	A	102	26.071	-20.468	22.817	1.00104.16	N
ATOM	828	CA	ILE	A	102	25.175	-19.706	23.691	1.00 98.78	C
ATOM	829	C	ILE	A	102	23.708	-19.962	23.331	1.00 91.45	C
ATOM	830	O	ILE	A	102	22.975	-20.648	24.073	1.00 88.43	O
ATOM	831	CB	ILE	A	102	25.484	-18.217	23.602	1.00 81.63	C
ATOM	832	CG1	ILE	A	102	26.933	-17.999	24.050	1.00 79.44	C
ATOM	833	CG2	ILE	A	102	24.486	-17.418	24.415	1.00 82.85	C
ATOM	834	CD1	ILE	A	102	27.340	-16.554	24.371	1.00 83.24	C
ATOM	835	N	ILE	A	103	23.293	-19.393	22.198	1.00 84.17	N
ATOM	836	CA	ILE	A	103	22.066	-19.778	21.515	1.00 79.15	C
ATOM	837	C	ILE	A	103	21.695	-21.228	21.790	1.00 78.49	C
ATOM	838	O	ILE	A	103	20.521	-21.540	22.009	1.00 74.06	O
ATOM	839	CB	ILE	A	103	22.222	-19.652	20.001	1.00 84.85	C
ATOM	840	CG1	ILE	A	103	21.516	-18.415	19.478	1.00 85.32	C
ATOM	841	CG2	ILE	A	103	21.669	-20.890	19.285	1.00 82.82	C
ATOM	842	CD1	ILE	A	103	21.217	-18.538	18.010	1.00 87.30	C
ATOM	843	N	LEU	A	104	22.679	-22.127	21.762	1.00 88.52	N
ATOM	844	CA	LEU	A	104	22.365	-23.523	22.018	1.00 90.72	C
ATOM	845	C	LEU	A	104	21.957	-23.834	23.455	1.00 89.23	C
ATOM	846	O	LEU	A	104	20.841	-24.317	23.669	1.00 85.55	O
ATOM	847	CB	LEU	A	104	23.493	-24.447	21.616	1.00 67.14	C
ATOM	848	CG	LEU	A	104	22.895	-25.848	21.662	1.00 73.62	C
ATOM	849	CD1	LEU	A	104	22.511	-26.232	20.262	1.00 74.37	C

ATOM	850	CD2	LEU	A	104	23.815	-26.885	22.245	1.00	79.79	C
ATOM	851	N	TYR	A	105	22.845	-23.572	24.427	1.00	92.82	N
ATOM	852	CA	TYR	A	105	22.619	-24.002	25.838	1.00	95.27	C
ATOM	853	C	TYR	A	105	21.789	-23.067	26.752	1.00	89.57	C
ATOM	854	O	TYR	A	105	21.408	-23.463	27.867	1.00	92.01	O
ATOM	855	CB	TYR	A	105	23.944	-24.338	26.542	1.00	89.74	C
ATOM	856	CG	TYR	A	105	24.712	-25.509	25.969	1.00	98.58	C
ATOM	857	CD1	TYR	A	105	25.430	-25.372	24.801	1.00	99.80	C
ATOM	858	CD2	TYR	A	105	24.737	-26.742	26.619	1.00	107.66	C
ATOM	859	CE1	TYR	A	105	26.142	-26.428	24.278	1.00	109.39	C
ATOM	860	CE2	TYR	A	105	25.447	-27.812	26.107	1.00	117.92	C
ATOM	861	CZ	TYR	A	105	26.153	-27.651	24.926	1.00	118.61	C
ATOM	862	OH	TYR	A	105	26.884	-28.691	24.367	1.00	130.12	O
ATOM	863	N	MET	A	106	21.526	-21.842	26.287	1.00	89.63	N
ATOM	864	CA	MET	A	106	20.716	-20.883	27.043	1.00	85.74	C
ATOM	865	C	MET	A	106	19.430	-21.481	27.619	1.00	81.22	C
ATOM	866	O	MET	A	106	19.125	-21.315	28.789	1.00	75.46	O
ATOM	867	CB	MET	A	106	20.356	-19.698	26.166	1.00	101.98	C
ATOM	868	CG	MET	A	106	21.430	-18.668	26.023	1.00	105.49	C
ATOM	869	SD	MET	A	106	20.669	-17.158	25.414	1.00	103.71	S
ATOM	870	CE	MET	A	106	19.760	-16.620	26.851	1.00	99.58	C
ATOM	871	N	SER	A	107	18.667	-22.146	26.764	1.00	94.71	N
ATOM	872	CA	SER	A	107	17.486	-22.917	27.140	1.00	86.60	C
ATOM	873	C	SER	A	107	17.748	-23.819	28.346	1.00	84.71	C
ATOM	874	O	SER	A	107	17.094	-23.719	29.392	1.00	74.40	O
ATOM	875	CB	SER	A	107	17.116	-23.768	25.936	1.00	74.41	C
ATOM	876	OG	SER	A	107	17.905	-23.357	24.805	1.00	77.07	O
ATOM	877	N	THR	A	108	18.729	-24.694	28.180	1.00	88.24	N
ATOM	878	CA	THR	A	108	19.221	-25.573	29.237	1.00	90.54	C
ATOM	879	C	THR	A	108	19.494	-24.841	30.552	1.00	86.57	C
ATOM	880	O	THR	A	108	19.144	-25.321	31.631	1.00	80.89	O
ATOM	881	CB	THR	A	108	20.551	-26.225	28.813	1.00	105.14	C
ATOM	882	CG2	THR	A	108	20.842	-27.454	29.662	1.00	109.05	C
ATOM	883	OG1	THR	A	108	20.509	-26.570	27.422	1.00	110.84	O
ATOM	884	N	PHE	A	109	20.163	-23.698	30.479	1.00	119.00	N
ATOM	885	CA	PHE	A	109	20.465	-23.011	31.720	1.00	117.90	C
ATOM	886	C	PHE	A	109	19.208	-22.421	32.296	1.00	102.15	C
ATOM	887	O	PHE	A	109	18.672	-22.905	33.288	1.00	96.11	O
ATOM	888	CB	PHE	A	109	21.489	-21.901	31.540	1.00	123.81	C
ATOM	889	CG	PHE	A	109	21.777	-21.145	32.814	1.00	122.52	C
ATOM	890	CD1	PHE	A	109	22.529	-21.727	33.827	1.00	131.80	C
ATOM	891	CD2	PHE	A	109	21.287	-19.865	33.006	1.00	113.88	C
ATOM	892	CE1	PHE	A	109	22.790	-21.045	34.994	1.00	132.38	C
ATOM	893	CE2	PHE	A	109	21.549	-19.182	34.174	1.00	114.18	C
ATOM	894	CZ	PHE	A	109	22.300	-19.777	35.167	1.00	123.39	C
ATOM	895	N	PHE	A	110	18.737	-21.365	31.660	1.00	128.28	N
ATOM	896	CA	PHE	A	110	17.616	-20.619	32.187	1.00	115.67	C
ATOM	897	C	PHE	A	110	16.421	-21.457	32.573	1.00	105.44	C
ATOM	898	O	PHE	A	110	15.874	-21.246	33.648	1.00	99.25	O
ATOM	899	CB	PHE	A	110	17.210	-19.499	31.247	1.00	68.98	C
ATOM	900	CG	PHE	A	110	18.194	-18.360	31.229	1.00	77.15	C
ATOM	901	CD1	PHE	A	110	19.123	-18.231	30.196	1.00	89.07	C
ATOM	902	CD2	PHE	A	110	18.218	-17.438	32.253	1.00	74.59	C
ATOM	903	CE1	PHE	A	110	20.035	-17.190	30.172	1.00	96.53	C
ATOM	904	CE2	PHE	A	110	19.127	-16.410	32.227	1.00	83.32	C
ATOM	905	CZ	PHE	A	110	20.033	-16.287	31.178	1.00	93.90	C
ATOM	906	N	ALA	A	111	15.999	-22.410	31.744	1.00	101.63	N
ATOM	907	CA	ALA	A	111	14.780	-23.129	32.133	1.00	92.81	C
ATOM	908	C	ALA	A	111	14.979	-24.085	33.274	1.00	93.61	C
ATOM	909	O	ALA	A	111	14.016	-24.620	33.788	1.00	86.62	O
ATOM	910	CB	ALA	A	111	14.152	-23.822	31.002	1.00	70.13	C

ATOM	911	N	SER	A	112	16.221	-24.292	33.678	1.00100.56	N
ATOM	912	CA	SER	A	112	16.483	-25.120	34.839	1.00103.99	C
ATOM	913	C	SER	A	112	16.286	-24.326	36.133	1.00100.93	C
ATOM	914	O	SER	A	112	16.415	-24.867	37.229	1.00104.60	O
ATOM	915	CB	SER	A	112	17.886	-25.730	34.766	1.00 81.36	C
ATOM	916	OG	SER	A	112	17.839	-27.061	34.276	1.00 84.28	O
ATOM	917	N	LEU	A	113	15.946	-23.050	36.005	1.00111.66	N
ATOM	918	CA	LEU	A	113	15.820	-22.190	37.175	1.00110.10	C
ATOM	919	C	LEU	A	113	14.532	-22.418	37.946	1.00 99.99	C
ATOM	920	O	LEU	A	113	14.393	-21.976	39.089	1.00 99.34	O
ATOM	921	CB	LEU	A	113	15.925	-20.718	36.774	1.00 69.31	C
ATOM	922	CG	LEU	A	113	17.169	-20.038	37.339	1.00 79.92	C
ATOM	923	CD1	LEU	A	113	18.282	-21.068	37.515	1.00 93.06	C
ATOM	924	CD2	LEU	A	113	17.598	-18.869	36.460	1.00 82.38	C
ATOM	925	N	ILE	A	114	13.593	-23.107	37.318	1.00113.00	N
ATOM	926	CA	ILE	A	114	12.263	-23.248	37.878	1.00105.14	C
ATOM	927	C	ILE	A	114	12.314	-24.086	39.176	1.00108.79	C
ATOM	928	O	ILE	A	114	11.570	-23.865	40.197	1.00106.17	O
ATOM	929	CB	ILE	A	114	11.353	-23.854	36.814	1.00 95.37	C
ATOM	930	CG1	ILE	A	114	9.948	-23.254	36.913	1.00 88.33	C
ATOM	931	CG2	ILE	A	114	11.400	-25.372	36.867	1.00 98.26	C
ATOM	932	CD1	ILE	A	114	8.836	-24.221	36.528	1.00 85.43	C
ATOM	933	N	VAL	A	115	13.238	-25.036	39.125	1.00102.12	N
ATOM	934	CA	VAL	A	115	13.640	-25.831	40.273	1.00109.88	C
ATOM	935	C	VAL	A	115	13.827	-24.955	41.540	1.00113.09	C
ATOM	936	O	VAL	A	115	13.778	-25.464	42.665	1.00117.64	O
ATOM	937	CB	VAL	A	115	14.924	-26.656	39.909	1.00 94.15	C
ATOM	938	CG1	VAL	A	115	16.162	-26.173	40.697	1.00107.14	C
ATOM	939	CG2	VAL	A	115	14.683	-28.187	40.013	1.00 96.25	C
ATOM	940	N	VAL	A	116	14.004	-23.644	41.354	1.00106.22	N
ATOM	941	CA	VAL	A	116	14.164	-22.700	42.477	1.00110.87	C
ATOM	942	C	VAL	A	116	12.840	-22.283	43.160	1.00103.16	C
ATOM	943	O	VAL	A	116	12.612	-22.596	44.343	1.00108.60	O
ATOM	944	CB	VAL	A	116	15.018	-21.455	42.073	1.00 63.93	C
ATOM	945	CG1	VAL	A	116	14.644	-20.253	42.905	1.00 62.71	C
ATOM	946	CG2	VAL	A	116	16.480	-21.759	42.241	1.00 79.26	C
ATOM	947	N	PRO	A	117	11.957	-21.580	42.430	1.00 99.33	N
ATOM	948	CA	PRO	A	117	10.700	-21.337	43.117	1.00 95.02	C
ATOM	949	C	PRO	A	117	10.024	-22.630	43.489	1.00 94.52	C
ATOM	950	O	PRO	A	117	9.390	-22.607	44.535	1.00 96.56	O
ATOM	951	CB	PRO	A	117	9.863	-20.559	42.094	1.00 77.32	C
ATOM	952	CG	PRO	A	117	10.487	-20.804	40.826	1.00 75.46	C
ATOM	953	CD	PRO	A	117	11.955	-20.986	41.088	1.00 84.05	C
ATOM	954	N	ILE	A	118	10.135	-23.725	42.730	1.00118.63	N
ATOM	955	CA	ILE	A	118	9.409	-24.909	43.253	1.00119.92	C
ATOM	956	C	ILE	A	118	9.708	-25.166	44.753	1.00128.60	C
ATOM	957	O	ILE	A	118	8.814	-25.090	45.632	1.00130.73	O
ATOM	958	CB	ILE	A	118	9.678	-26.222	42.490	1.00 92.08	C
ATOM	959	CG1	ILE	A	118	9.323	-26.100	41.013	1.00 85.39	C
ATOM	960	CG2	ILE	A	118	8.849	-27.334	43.090	1.00 94.76	C
ATOM	961	CD1	ILE	A	118	7.859	-26.248	40.736	1.00 82.08	C
ATOM	962	N	ILE	A	119	10.973	-25.463	45.042	1.00 89.40	N
ATOM	963	CA	ILE	A	119	11.376	-25.805	46.402	1.00102.17	C
ATOM	964	C	ILE	A	119	11.263	-24.625	47.352	1.00105.23	C
ATOM	965	O	ILE	A	119	11.019	-24.824	48.530	1.00113.21	O
ATOM	966	CB	ILE	A	119	12.770	-26.519	46.487	1.00 96.18	C
ATOM	967	CG1	ILE	A	119	13.936	-25.591	46.191	1.00102.05	C
ATOM	968	CG2	ILE	A	119	12.859	-27.702	45.520	1.00 93.50	C
ATOM	969	CD1	ILE	A	119	15.161	-26.405	45.795	1.00113.42	C
ATOM	970	N	LEU	A	120	11.385	-23.403	46.847	1.00 96.27	N
ATOM	971	CA	LEU	A	120	11.129	-22.242	47.716	1.00 98.88	C

ATOM	972	C	LEU	A	120	9.673	-22.135	48.235	1.00	93.25	C
ATOM	973	O	LEU	A	120	9.428	-21.937	49.442	1.00	101.09	O
ATOM	974	CB	LEU	A	120	11.572	-20.923	47.060	1.00	81.77	C
ATOM	975	CG	LEU	A	120	13.065	-20.618	46.989	1.00	93.28	C
ATOM	976	CD1	LEU	A	120	13.206	-19.174	46.620	1.00	90.49	C
ATOM	977	CD2	LEU	A	120	13.745	-20.917	48.316	1.00	109.95	C
ATOM	978	N	ILE	A	121	8.708	-22.254	47.332	1.00	91.76	N
ATOM	979	CA	ILE	A	121	7.316	-22.251	47.755	1.00	91.15	C
ATOM	980	C	ILE	A	121	7.045	-23.444	48.631	1.00	97.85	C
ATOM	981	O	ILE	A	121	6.430	-23.321	49.689	1.00	104.73	O
ATOM	982	CB	ILE	A	121	6.373	-22.350	46.587	1.00	92.32	C
ATOM	983	CG1	ILE	A	121	6.623	-21.181	45.649	1.00	86.73	C
ATOM	984	CG2	ILE	A	121	4.932	-22.375	47.087	1.00	94.34	C
ATOM	985	CD1	ILE	A	121	5.813	-21.232	44.379	1.00	79.97	C
ATOM	986	N	ALA	A	122	7.484	-24.612	48.172	1.00	95.71	N
ATOM	987	CA	ALA	A	122	7.382	-25.781	49.023	1.00	104.23	C
ATOM	988	C	ALA	A	122	7.795	-25.375	50.444	1.00	116.68	C
ATOM	989	O	ALA	A	122	7.083	-25.657	51.415	1.00	123.96	O
ATOM	990	CB	ALA	A	122	8.267	-26.888	48.504	1.00	114.62	C
ATOM	991	N	ARG	A	123	8.937	-24.691	50.548	1.00	115.76	N
ATOM	992	CA	ARG	A	123	9.527	-24.341	51.850	1.00	132.23	C
ATOM	993	C	ARG	A	123	8.712	-23.342	52.638	1.00	134.47	C
ATOM	994	O	ARG	A	123	8.711	-23.375	53.863	1.00	149.21	O
ATOM	995	CB	ARG	A	123	10.940	-23.799	51.676	1.00	92.25	C
ATOM	996	CG	ARG	A	123	11.433	-22.975	52.812	1.00	110.21	C
ATOM	997	CD	ARG	A	123	12.696	-22.288	52.397	1.00	114.09	C
ATOM	998	NE	ARG	A	123	13.602	-22.188	53.527	1.00	132.88	N
ATOM	999	CZ	ARG	A	123	13.742	-21.101	54.274	1.00	139.10	C
ATOM	1000	NH1	ARG	A	123	13.042	-20.009	53.993	1.00	130.26	N1+
ATOM	1001	NH2	ARG	A	123	14.594	-21.103	55.295	1.00	155.23	N
ATOM	1002	N	GLU	A	124	8.037	-22.434	51.943	1.00	103.95	N
ATOM	1003	CA	GLU	A	124	7.087	-21.564	52.635	1.00	107.67	C
ATOM	1004	C	GLU	A	124	6.083	-22.396	53.416	1.00	112.95	C
ATOM	1005	O	GLU	A	124	5.677	-22.025	54.513	1.00	124.30	O
ATOM	1006	CB	GLU	A	124	6.343	-20.664	51.650	1.00	150.58	C
ATOM	1007	CG	GLU	A	124	7.226	-19.692	50.919	1.00	146.75	C
ATOM	1008	CD	GLU	A	124	8.012	-18.809	51.856	1.00	159.01	C
ATOM	1009	OE1	GLU	A	124	8.149	-19.150	53.050	1.00	171.31	O
ATOM	1010	OE2	GLU	A	124	8.495	-17.762	51.390	1.00	157.57	O1-
ATOM	1011	N	TYR	A	125	5.689	-23.524	52.829	1.00	114.80	N
ATOM	1012	CA	TYR	A	125	4.688	-24.418	53.404	1.00	120.59	C
ATOM	1013	C	TYR	A	125	5.300	-25.407	54.387	1.00	133.14	C
ATOM	1014	O	TYR	A	125	4.648	-26.359	54.832	1.00	138.46	O
ATOM	1015	CB	TYR	A	125	3.940	-25.135	52.289	1.00	142.29	C
ATOM	1016	CG	TYR	A	125	3.121	-24.170	51.486	1.00	133.76	C
ATOM	1017	CD1	TYR	A	125	2.950	-24.334	50.123	1.00	122.65	C
ATOM	1018	CD2	TYR	A	125	2.528	-23.078	52.097	1.00	139.14	C
ATOM	1019	CE1	TYR	A	125	2.201	-23.435	49.389	1.00	117.18	C
ATOM	1020	CE2	TYR	A	125	1.778	-22.180	51.375	1.00	133.44	C
ATOM	1021	CZ	TYR	A	125	1.616	-22.357	50.017	1.00	122.47	C
ATOM	1022	OH	TYR	A	125	0.867	-21.452	49.293	1.00	118.10	O
ATOM	1023	N	LYS	A	126	6.555	-25.149	54.733	1.00	105.12	N
ATOM	1024	CA	LYS	A	126	7.273	-25.946	55.713	1.00	123.23	C
ATOM	1025	C	LYS	A	126	7.454	-27.364	55.183	1.00	121.25	C
ATOM	1026	O	LYS	A	126	7.551	-28.321	55.952	1.00	135.67	O
ATOM	1027	CB	LYS	A	126	6.564	-25.898	57.075	1.00	133.10	C
ATOM	1028	CG	LYS	A	126	6.555	-24.481	57.691	1.00	138.15	C
ATOM	1029	CD	LYS	A	126	5.957	-24.405	59.109	1.00	157.16	C
ATOM	1030	CE	LYS	A	126	6.142	-23.006	59.732	1.00	165.00	C
ATOM	1031	NZ	LYS	A	126	5.574	-22.906	61.111	1.00	184.27	N1+
ATOM	1032	N	LEU	A	127	7.508	-27.473	53.852	1.00	121.96	N

ATOM	1033	CA	LEU	A	127	7.711	-28.743	53.168	1.00119.15	C
ATOM	1034	C	LEU	A	127	8.807	-28.635	52.121	1.00114.18	C
ATOM	1035	O	LEU	A	127	8.532	-28.752	50.923	1.00100.38	O
ATOM	1036	CB	LEU	A	127	6.448	-29.147	52.423	1.00102.22	C
ATOM	1037	CG	LEU	A	127	5.080	-29.059	53.072	1.00104.75	C
ATOM	1038	CD1	LEU	A	127	4.042	-29.705	52.166	1.00 95.99	C
ATOM	1039	CD2	LEU	A	127	5.109	-29.738	54.422	1.00120.89	C
ATOM	1040	N	THR	A	128	10.046	-28.423	52.541	1.00142.10	N
ATOM	1041	CA	THR	A	128	11.107	-28.248	51.562	1.00139.13	C
ATOM	1042	C	THR	A	128	11.432	-29.539	50.839	1.00139.38	C
ATOM	1043	O	THR	A	128	11.225	-29.643	49.637	1.00126.10	O
ATOM	1044	CB	THR	A	128	12.373	-27.705	52.184	1.00 97.20	C
ATOM	1045	CG2	THR	A	128	13.548	-27.962	51.255	1.00 99.69	C
ATOM	1046	OG1	THR	A	128	12.227	-26.291	52.383	1.00 92.64	O
ATOM	1047	N	THR	A	129	11.946	-30.515	51.572	1.00127.83	N
ATOM	1048	CA	THR	A	129	12.275	-31.809	50.991	1.00129.89	C
ATOM	1049	C	THR	A	129	11.214	-32.338	50.014	1.00112.55	C
ATOM	1050	O	THR	A	129	11.559	-32.957	49.021	1.00108.74	O
ATOM	1051	CB	THR	A	129	12.551	-32.840	52.090	1.00105.00	C
ATOM	1052	CG2	THR	A	129	13.060	-34.153	51.500	1.00109.58	C
ATOM	1053	OG1	THR	A	129	13.515	-32.298	53.004	1.00123.25	O
ATOM	1054	N	TYR	A	130	9.932	-32.099	50.268	1.00126.35	N
ATOM	1055	CA	TYR	A	130	8.924	-32.480	49.279	1.00111.46	C
ATOM	1056	C	TYR	A	130	8.980	-31.571	48.062	1.00 96.94	C
ATOM	1057	O	TYR	A	130	8.751	-32.007	46.927	1.00 88.64	O
ATOM	1058	CB	TYR	A	130	7.523	-32.501	49.869	1.00 87.97	C
ATOM	1059	CG	TYR	A	130	7.375	-33.561	50.932	1.00102.19	C
ATOM	1060	CD1	TYR	A	130	7.270	-33.216	52.275	1.00113.83	C
ATOM	1061	CD2	TYR	A	130	7.366	-34.916	50.598	1.00105.59	C
ATOM	1062	CE1	TYR	A	130	7.145	-34.185	53.256	1.00128.72	C
ATOM	1063	CE2	TYR	A	130	7.243	-35.897	51.575	1.00119.91	C
ATOM	1064	CZ	TYR	A	130	7.134	-35.523	52.902	1.00131.58	C
ATOM	1065	OH	TYR	A	130	7.011	-36.482	53.880	1.00147.59	O
ATOM	1066	N	GLY	A	131	9.297	-30.304	48.300	1.00110.57	N
ATOM	1067	CA	GLY	A	131	9.586	-29.379	47.218	1.00100.18	C
ATOM	1068	C	GLY	A	131	10.698	-29.860	46.297	1.00103.14	C
ATOM	1069	O	GLY	A	131	10.586	-29.763	45.073	1.00 93.92	O
ATOM	1070	N	PHE	A	132	11.778	-30.375	46.884	1.00115.95	N
ATOM	1071	CA	PHE	A	132	12.922	-30.886	46.120	1.00122.05	C
ATOM	1072	C	PHE	A	132	12.433	-31.875	45.072	1.00115.42	C
ATOM	1073	O	PHE	A	132	12.770	-31.769	43.888	1.00111.68	O
ATOM	1074	CB	PHE	A	132	13.928	-31.550	47.068	1.00 86.93	C
ATOM	1075	CG	PHE	A	132	15.080	-32.227	46.371	1.00 95.96	C
ATOM	1076	CD1	PHE	A	132	16.090	-31.480	45.774	1.00 98.61	C
ATOM	1077	CD2	PHE	A	132	15.168	-33.615	46.337	1.00103.30	C
ATOM	1078	CE1	PHE	A	132	17.150	-32.104	45.140	1.00108.77	C
ATOM	1079	CE2	PHE	A	132	16.224	-34.237	45.708	1.00113.19	C
ATOM	1080	CZ	PHE	A	132	17.215	-33.483	45.107	1.00116.11	C
ATOM	1081	N	ILE	A	133	11.625	-32.829	45.528	1.00105.92	N
ATOM	1082	CA	ILE	A	133	10.949	-33.772	44.644	1.00100.04	C
ATOM	1083	C	ILE	A	133	10.021	-33.091	43.594	1.00 84.55	C
ATOM	1084	O	ILE	A	133	10.152	-33.329	42.372	1.00 81.44	O
ATOM	1085	CB	ILE	A	133	10.204	-34.852	45.472	1.00 99.20	C
ATOM	1086	CG1	ILE	A	133	11.208	-35.751	46.178	1.00116.21	C
ATOM	1087	CG2	ILE	A	133	9.320	-35.732	44.598	1.00 94.41	C
ATOM	1088	CD1	ILE	A	133	10.625	-37.092	46.537	1.00122.74	C
ATOM	1089	N	ALA	A	134	9.108	-32.234	44.056	1.00121.81	N
ATOM	1090	CA	ALA	A	134	8.213	-31.538	43.124	1.00111.88	C
ATOM	1091	C	ALA	A	134	8.996	-30.877	41.999	1.00107.79	C
ATOM	1092	O	ALA	A	134	8.491	-30.734	40.892	1.00102.42	O
ATOM	1093	CB	ALA	A	134	7.356	-30.507	43.840	1.00 66.86	C

ATOM	1094	N	ALA	A	135	10.232	-30.482	42.286	1.00	82.79	N
ATOM	1095	CA	ALA	A	135	11.063	-29.800	41.307	1.00	81.98	C
ATOM	1096	C	ALA	A	135	11.932	-30.740	40.435	1.00	88.46	C
ATOM	1097	O	ALA	A	135	12.138	-30.485	39.238	1.00	86.21	O
ATOM	1098	CB	ALA	A	135	11.905	-28.744	42.004	1.00	75.56	C
ATOM	1099	N	LEU	A	136	12.455	-31.817	41.006	1.00	99.40	N
ATOM	1100	CA	LEU	A	136	13.067	-32.826	40.154	1.00	106.08	C
ATOM	1101	C	LEU	A	136	12.027	-33.201	39.111	1.00	97.70	C
ATOM	1102	O	LEU	A	136	12.320	-33.202	37.922	1.00	98.58	O
ATOM	1103	CB	LEU	A	136	13.520	-34.078	40.918	1.00	85.44	C
ATOM	1104	CG	LEU	A	136	14.784	-34.020	41.767	1.00	100.07	C
ATOM	1105	CD1	LEU	A	136	15.405	-35.407	41.936	1.00	115.38	C
ATOM	1106	CD2	LEU	A	136	15.771	-33.061	41.141	1.00	102.45	C
ATOM	1107	N	LEU	A	137	10.799	-33.481	39.547	1.00	97.50	N
ATOM	1108	CA	LEU	A	137	9.756	-33.872	38.599	1.00	92.33	C
ATOM	1109	C	LEU	A	137	9.404	-32.742	37.645	1.00	84.48	C
ATOM	1110	O	LEU	A	137	9.292	-32.941	36.433	1.00	84.27	O
ATOM	1111	CB	LEU	A	137	8.481	-34.302	39.318	1.00	88.95	C
ATOM	1112	CG	LEU	A	137	7.346	-34.460	38.302	1.00	84.88	C
ATOM	1113	CD1	LEU	A	137	7.580	-35.684	37.470	1.00	91.08	C
ATOM	1114	CD2	LEU	A	137	5.962	-34.496	38.946	1.00	82.53	C
ATOM	1115	N	GLY	A	138	9.197	-31.554	38.200	1.00	98.50	N
ATOM	1116	CA	GLY	A	138	8.721	-30.434	37.414	1.00	91.67	C
ATOM	1117	C	GLY	A	138	9.732	-29.966	36.391	1.00	93.14	C
ATOM	1118	O	GLY	A	138	9.376	-29.295	35.438	1.00	89.56	O
ATOM	1119	N	SER	A	139	11.002	-30.311	36.575	1.00	102.42	N
ATOM	1120	CA	SER	A	139	12.027	-29.795	35.664	1.00	106.49	C
ATOM	1121	C	SER	A	139	12.297	-30.762	34.514	1.00	113.40	C
ATOM	1122	O	SER	A	139	13.256	-30.617	33.753	1.00	120.65	O
ATOM	1123	CB	SER	A	139	13.292	-29.568	36.469	1.00	75.35	C
ATOM	1124	OG	SER	A	139	13.591	-30.710	37.243	1.00	81.89	O
ATOM	1125	N	ILE	A	140	11.443	-31.770	34.397	1.00	100.63	N
ATOM	1126	CA	ILE	A	140	11.690	-32.836	33.448	1.00	108.63	C
ATOM	1127	C	ILE	A	140	10.430	-33.233	32.697	1.00	105.77	C
ATOM	1128	O	ILE	A	140	10.495	-33.601	31.522	1.00	112.98	O
ATOM	1129	CB	ILE	A	140	12.265	-34.035	34.161	1.00	103.78	C
ATOM	1130	CG1	ILE	A	140	13.745	-33.827	34.386	1.00	111.77	C
ATOM	1131	CG2	ILE	A	140	12.140	-35.240	33.318	1.00	111.50	C
ATOM	1132	CD1	ILE	A	140	14.464	-35.140	34.623	1.00	124.54	C
ATOM	1133	N	ALA	A	141	9.288	-33.140	33.373	1.00	112.10	N
ATOM	1134	CA	ALA	A	141	7.999	-33.462	32.771	1.00	110.86	C
ATOM	1135	C	ALA	A	141	7.930	-33.127	31.280	1.00	114.74	C
ATOM	1136	O	ALA	A	141	8.422	-32.088	30.837	1.00	119.68	O
ATOM	1137	CB	ALA	A	141	6.894	-32.776	33.515	1.00	75.54	C
ATOM	1138	N	ASN	A	142	7.296	-34.019	30.524	1.00	87.58	N
ATOM	1139	CA	ASN	A	142	7.330	-33.995	29.065	1.00	93.77	C
ATOM	1140	C	ASN	A	142	7.231	-32.600	28.460	1.00	92.46	C
ATOM	1141	O	ASN	A	142	8.246	-32.045	28.080	1.00	95.84	O
ATOM	1142	CB	ASN	A	142	6.276	-34.944	28.480	1.00	117.90	C
ATOM	1143	CG	ASN	A	142	6.463	-36.385	28.941	1.00	113.16	C
ATOM	1144	ND2	ASN	A	142	7.709	-36.794	29.119	1.00	112.54	N
ATOM	1145	OD1	ASN	A	142	5.496	-37.116	29.140	1.00	111.99	O
ATOM	1146	N	SER	A	143	6.026	-32.040	28.381	1.00	87.02	N
ATOM	1147	CA	SER	A	143	5.830	-30.672	27.893	1.00	86.42	C
ATOM	1148	C	SER	A	143	6.987	-29.747	28.228	1.00	87.38	C
ATOM	1149	O	SER	A	143	7.501	-29.047	27.353	1.00	91.30	O
ATOM	1150	CB	SER	A	143	4.558	-30.061	28.473	1.00	82.49	C
ATOM	1151	OG	SER	A	143	3.482	-30.953	28.314	1.00	87.34	O
ATOM	1152	N	TYR	A	144	7.397	-29.733	29.496	1.00	75.12	N
ATOM	1153	CA	TYR	A	144	8.435	-28.805	29.900	1.00	77.80	C
ATOM	1154	C	TYR	A	144	9.751	-29.130	29.203	1.00	83.03	C

ATOM	1155	O	TYR	A	144	10.310	-28.275	28.516	1.00	85.76	O
ATOM	1156	CB	TYR	A	144	8.592	-28.688	31.427	1.00	75.82	C
ATOM	1157	CG	TYR	A	144	9.315	-27.399	31.832	1.00	79.78	C
ATOM	1158	CD1	TYR	A	144	8.638	-26.171	31.860	1.00	78.75	C
ATOM	1159	CD2	TYR	A	144	10.673	-27.402	32.168	1.00	86.05	C
ATOM	1160	CE1	TYR	A	144	9.289	-24.998	32.210	1.00	83.61	C
ATOM	1161	CE2	TYR	A	144	11.321	-26.223	32.514	1.00	91.35	C
ATOM	1162	CZ	TYR	A	144	10.622	-25.032	32.531	1.00	89.88	C
ATOM	1163	OH	TYR	A	144	11.258	-23.868	32.868	1.00	96.47	O
ATOM	1164	N	TYR	A	145	10.238	-30.359	29.352	1.00	84.28	N
ATOM	1165	CA	TYR	A	145	11.493	-30.735	28.706	1.00	90.47	C
ATOM	1166	C	TYR	A	145	11.441	-30.325	27.244	1.00	93.31	C
ATOM	1167	O	TYR	A	145	12.324	-29.629	26.739	1.00	99.68	O
ATOM	1168	CB	TYR	A	145	11.747	-32.241	28.807	1.00	73.30	C
ATOM	1169	CG	TYR	A	145	12.923	-32.699	27.978	1.00	85.83	C
ATOM	1170	CD1	TYR	A	145	14.205	-32.379	28.346	1.00	92.07	C
ATOM	1171	CD2	TYR	A	145	12.749	-33.442	26.827	1.00	93.56	C
ATOM	1172	CE1	TYR	A	145	15.284	-32.786	27.605	1.00	105.56	C
ATOM	1173	CE2	TYR	A	145	13.827	-33.851	26.076	1.00	106.75	C
ATOM	1174	CZ	TYR	A	145	15.096	-33.519	26.476	1.00	112.70	C
ATOM	1175	OH	TYR	A	145	16.201	-33.917	25.753	1.00	127.76	O
ATOM	1176	N	ASN	A	146	10.366	-30.746	26.588	1.00	71.27	N
ATOM	1177	CA	ASN	A	146	10.209	-30.626	25.162	1.00	76.58	C
ATOM	1178	C	ASN	A	146	10.352	-29.237	24.662	1.00	78.03	C
ATOM	1179	O	ASN	A	146	10.906	-29.040	23.577	1.00	87.33	O
ATOM	1180	CB	ASN	A	146	8.862	-31.144	24.757	1.00	87.51	C
ATOM	1181	CG	ASN	A	146	8.794	-32.616	24.841	1.00	89.92	C
ATOM	1182	ND2	ASN	A	146	9.631	-33.202	25.691	1.00	89.85	N
ATOM	1183	OD1	ASN	A	146	8.009	-33.242	24.137	1.00	93.66	O
ATOM	1184	N	ARG	A	147	9.847	-28.275	25.433	1.00	74.79	N
ATOM	1185	CA	ARG	A	147	9.867	-26.857	25.020	1.00	75.70	C
ATOM	1186	C	ARG	A	147	11.077	-26.095	25.561	1.00	77.98	C
ATOM	1187	O	ARG	A	147	11.142	-24.857	25.519	1.00	79.22	O
ATOM	1188	CB	ARG	A	147	8.569	-26.162	25.412	1.00	80.74	C
ATOM	1189	CG	ARG	A	147	7.352	-26.901	24.949	1.00	85.64	C
ATOM	1190	CD	ARG	A	147	6.212	-25.956	24.811	1.00	83.20	C
ATOM	1191	NE	ARG	A	147	5.770	-25.876	23.435	1.00	90.32	N
ATOM	1192	CZ	ARG	A	147	5.823	-24.768	22.716	1.00	96.95	C
ATOM	1193	NH1	ARG	A	147	6.291	-23.663	23.254	1.00	96.29	N1+
ATOM	1194	NH2	ARG	A	147	5.412	-24.761	21.463	1.00	98.05	N
ATOM	1195	N	THR	A	148	12.053	-26.878	26.013	1.00	111.49	N
ATOM	1196	CA	THR	A	148	13.138	-26.394	26.825	1.00	114.56	C
ATOM	1197	C	THR	A	148	14.368	-27.286	26.700	1.00	124.41	C
ATOM	1198	O	THR	A	148	15.242	-27.252	27.560	1.00	124.23	O
ATOM	1199	CB	THR	A	148	12.714	-26.450	28.277	1.00	99.60	C
ATOM	1200	CG2	THR	A	148	13.677	-25.726	29.098	1.00	104.11	C
ATOM	1201	OG1	THR	A	148	11.432	-25.844	28.432	1.00	91.59	O
ATOM	1202	N	MET	A	149	14.437	-28.105	25.654	1.00	121.53	N
ATOM	1203	CA	MET	A	149	15.602	-28.978	25.471	1.00	134.04	C
ATOM	1204	C	MET	A	149	16.852	-28.139	25.395	1.00	140.43	C
ATOM	1205	O	MET	A	149	16.781	-26.914	25.357	1.00	135.98	O
ATOM	1206	CB	MET	A	149	15.548	-29.742	24.161	1.00	104.15	C
ATOM	1207	CG	MET	A	149	14.330	-30.539	23.893	1.00	100.83	C
ATOM	1208	SD	MET	A	149	14.302	-30.710	22.110	1.00	114.95	S
ATOM	1209	CE	MET	A	149	16.056	-30.646	21.740	1.00	124.27	C
ATOM	1210	N	SER	A	150	18.002	-28.798	25.316	1.00	112.76	N
ATOM	1211	CA	SER	A	150	19.251	-28.074	25.176	1.00	118.09	C
ATOM	1212	C	SER	A	150	19.238	-27.332	23.860	1.00	111.73	C
ATOM	1213	O	SER	A	150	20.113	-26.525	23.591	1.00	110.96	O
ATOM	1214	CB	SER	A	150	20.456	-29.014	25.237	1.00	128.48	C
ATOM	1215	OG	SER	A	150	20.716	-29.447	26.561	1.00	135.26	O

ATOM	1216	N	GLY	A	151	18.242	-27.601	23.035	1.00101.19	N
ATOM	1217	CA	GLY	A	151	18.236	-27.008	21.723	1.00 97.94	C
ATOM	1218	C	GLY	A	151	17.315	-25.819	21.527	1.00 88.94	C
ATOM	1219	O	GLY	A	151	17.545	-25.022	20.611	1.00 87.64	O
ATOM	1220	N	TYR	A	152	16.303	-25.688	22.396	1.00103.16	N
ATOM	1221	CA	TYR	A	152	15.088	-24.875	22.161	1.00 96.87	C
ATOM	1222	C	TYR	A	152	15.256	-23.378	22.365	1.00 92.25	C
ATOM	1223	O	TYR	A	152	14.749	-22.827	23.326	1.00 90.42	O
ATOM	1224	CB	TYR	A	152	13.961	-25.361	23.086	1.00108.50	C
ATOM	1225	CG	TYR	A	152	12.574	-25.329	22.473	1.00106.21	C
ATOM	1226	CD1	TYR	A	152	11.861	-26.494	22.263	1.00110.47	C
ATOM	1227	CD2	TYR	A	152	11.982	-24.140	22.104	1.00101.40	C
ATOM	1228	CE1	TYR	A	152	10.605	-26.470	21.702	1.00109.40	C
ATOM	1229	CE2	TYR	A	152	10.729	-24.114	21.548	1.00100.64	C
ATOM	1230	CZ	TYR	A	152	10.048	-25.276	21.348	1.00104.30	C
ATOM	1231	OH	TYR	A	152	8.803	-25.233	20.784	1.00104.38	O
ATOM	1232	N	TYR	A	153	15.940	-22.707	21.457	1.00 98.34	N
ATOM	1233	CA	TYR	A	153	16.222	-21.288	21.629	1.00 96.34	C
ATOM	1234	C	TYR	A	153	14.988	-20.425	21.253	1.00 92.50	C
ATOM	1235	O	TYR	A	153	14.982	-19.697	20.263	1.00 91.36	O
ATOM	1236	CB	TYR	A	153	17.511	-20.934	20.857	1.00 81.28	C
ATOM	1237	CG	TYR	A	153	17.898	-19.472	20.818	1.00 82.04	C
ATOM	1238	CD1	TYR	A	153	18.569	-18.875	21.875	1.00 83.69	C
ATOM	1239	CD2	TYR	A	153	17.622	-18.697	19.704	1.00 83.12	C
ATOM	1240	CE1	TYR	A	153	18.923	-17.548	21.827	1.00 86.25	C
ATOM	1241	CE2	TYR	A	153	17.974	-17.380	19.653	1.00 86.01	C
ATOM	1242	CZ	TYR	A	153	18.620	-16.815	20.711	1.00 87.53	C
ATOM	1243	OH	TYR	A	153	18.960	-15.499	20.636	1.00 91.31	O
ATOM	1244	N	ASP	A	154	13.939	-20.539	22.064	1.00 89.25	N
ATOM	1245	CA	ASP	A	154	12.694	-19.784	21.886	1.00 86.73	C
ATOM	1246	C	ASP	A	154	12.304	-19.210	23.254	1.00 84.97	C
ATOM	1247	O	ASP	A	154	12.822	-19.616	24.305	1.00 81.85	O
ATOM	1248	CB	ASP	A	154	11.606	-20.658	21.163	1.00 69.99	C
ATOM	1249	CG	ASP	A	154	10.110	-20.179	21.358	1.00 70.45	C
ATOM	1250	OD1	ASP	A	154	9.613	-19.220	20.701	1.00 70.72	O
ATOM	1251	OD2	ASP	A	154	9.378	-20.850	22.123	1.00 71.86	O1-
ATOM	1252	N	THR	A	155	11.433	-18.216	23.198	1.00120.82	N
ATOM	1253	CA	THR	A	155	10.967	-17.446	24.334	1.00110.32	C
ATOM	1254	C	THR	A	155	10.553	-18.281	25.520	1.00 99.43	C
ATOM	1255	O	THR	A	155	10.187	-17.742	26.546	1.00 91.89	O
ATOM	1256	CB	THR	A	155	9.741	-16.637	23.893	1.00 96.68	C
ATOM	1257	CG2	THR	A	155	8.480	-17.029	24.671	1.00 86.98	C
ATOM	1258	OG1	THR	A	155	10.008	-15.248	24.070	1.00102.49	O
ATOM	1259	N	ASP	A	156	10.589	-19.597	25.377	1.00 92.15	N
ATOM	1260	CA	ASP	A	156	9.958	-20.477	26.355	1.00 82.90	C
ATOM	1261	C	ASP	A	156	10.798	-20.760	27.586	1.00 77.72	C
ATOM	1262	O	ASP	A	156	10.330	-21.371	28.517	1.00 71.30	O
ATOM	1263	CB	ASP	A	156	9.538	-21.796	25.705	1.00104.90	C
ATOM	1264	CG	ASP	A	156	8.141	-21.739	25.148	1.00108.70	C
ATOM	1265	OD1	ASP	A	156	7.772	-20.698	24.564	1.00112.01	O
ATOM	1266	OD2	ASP	A	156	7.403	-22.732	25.304	1.00109.80	O1-
ATOM	1267	N	MET	A	157	12.038	-20.306	27.605	1.00110.29	N
ATOM	1268	CA	MET	A	157	12.931	-20.730	28.670	1.00109.04	C
ATOM	1269	C	MET	A	157	12.644	-20.155	30.059	1.00100.88	C
ATOM	1270	O	MET	A	157	13.089	-20.714	31.054	1.00 99.96	O
ATOM	1271	CB	MET	A	157	14.396	-20.524	28.281	1.00 79.06	C
ATOM	1272	CG	MET	A	157	14.734	-19.305	27.452	1.00 84.63	C
ATOM	1273	SD	MET	A	157	16.504	-19.388	27.177	1.00 98.65	S
ATOM	1274	CE	MET	A	157	16.486	-19.434	25.400	1.00106.09	C
ATOM	1275	N	LEU	A	158	11.919	-19.041	30.122	1.00104.16	N
ATOM	1276	CA	LEU	A	158	11.542	-18.412	31.399	1.00 97.92	C

ATOM	1277	C	LEU	A	158	10.033	-18.212	31.509	1.00	92.38	C
ATOM	1278	O	LEU	A	158	9.564	-17.516	32.407	1.00	88.66	O
ATOM	1279	CB	LEU	A	158	12.194	-17.037	31.565	1.00	58.44	C
ATOM	1280	CG	LEU	A	158	13.699	-16.825	31.530	1.00	66.52	C
ATOM	1281	CD1	LEU	A	158	14.008	-15.343	31.484	1.00	69.53	C
ATOM	1282	CD2	LEU	A	158	14.339	-17.474	32.727	1.00	67.34	C
ATOM	1283	N	VAL	A	159	9.285	-18.807	30.584	1.00	94.88	N
ATOM	1284	CA	VAL	A	159	7.848	-18.594	30.483	1.00	92.59	C
ATOM	1285	C	VAL	A	159	7.137	-19.151	31.688	1.00	86.51	C
ATOM	1286	O	VAL	A	159	6.062	-18.670	32.063	1.00	84.42	O
ATOM	1287	CB	VAL	A	159	7.292	-19.262	29.233	1.00	78.03	C
ATOM	1288	CG1	VAL	A	159	5.778	-19.304	29.265	1.00	77.24	C
ATOM	1289	CG2	VAL	A	159	7.780	-18.533	28.018	1.00	85.80	C
ATOM	1290	N	LEU	A	160	7.753	-20.160	32.297	1.00	100.29	N
ATOM	1291	CA	LEU	A	160	7.225	-20.737	33.525	1.00	95.97	C
ATOM	1292	C	LEU	A	160	8.021	-20.429	34.808	1.00	94.89	C
ATOM	1293	O	LEU	A	160	7.523	-20.622	35.920	1.00	92.51	O
ATOM	1294	CB	LEU	A	160	7.051	-22.227	33.358	1.00	86.73	C
ATOM	1295	CG	LEU	A	160	5.716	-22.515	32.706	1.00	87.59	C
ATOM	1296	CD1	LEU	A	160	5.235	-23.869	33.154	1.00	86.80	C
ATOM	1297	CD2	LEU	A	160	4.761	-21.489	33.155	1.00	86.09	C
ATOM	1298	N	VAL	A	161	9.250	-19.948	34.645	1.00	99.54	N
ATOM	1299	CA	VAL	A	161	10.088	-19.534	35.763	1.00	101.18	C
ATOM	1300	C	VAL	A	161	9.550	-18.240	36.363	1.00	99.25	C
ATOM	1301	O	VAL	A	161	9.415	-18.106	37.576	1.00	98.86	O
ATOM	1302	CB	VAL	A	161	11.554	-19.330	35.294	1.00	102.08	C
ATOM	1303	CG1	VAL	A	161	12.039	-17.927	35.616	1.00	104.65	C
ATOM	1304	CG2	VAL	A	161	12.478	-20.394	35.887	1.00	106.41	C
ATOM	1305	N	LEU	A	162	9.216	-17.294	35.500	1.00	119.43	N
ATOM	1306	CA	LEU	A	162	8.805	-15.964	35.940	1.00	119.21	C
ATOM	1307	C	LEU	A	162	7.471	-15.881	36.737	1.00	115.76	C
ATOM	1308	O	LEU	A	162	7.442	-15.326	37.846	1.00	117.51	O
ATOM	1309	CB	LEU	A	162	8.841	-14.985	34.756	1.00	68.81	C
ATOM	1310	CG	LEU	A	162	10.216	-14.416	34.374	1.00	74.02	C
ATOM	1311	CD1	LEU	A	162	10.247	-14.204	32.901	1.00	78.02	C
ATOM	1312	CD2	LEU	A	162	10.530	-13.100	35.085	1.00	76.08	C
ATOM	1313	N	PRO	A	163	6.373	-16.444	36.202	1.00	123.12	N
ATOM	1314	CA	PRO	A	163	5.127	-16.344	36.970	1.00	123.55	C
ATOM	1315	C	PRO	A	163	5.204	-17.225	38.214	1.00	124.20	C
ATOM	1316	O	PRO	A	163	4.643	-16.900	39.254	1.00	126.46	O
ATOM	1317	CB	PRO	A	163	4.068	-16.887	36.006	1.00	118.18	C
ATOM	1318	CG	PRO	A	163	4.819	-17.468	34.837	1.00	118.54	C
ATOM	1319	CD	PRO	A	163	6.275	-17.456	35.143	1.00	118.57	C
ATOM	1320	N	MET	A	164	5.903	-18.343	38.095	1.00	107.44	N
ATOM	1321	CA	MET	A	164	6.181	-19.183	39.245	1.00	109.37	C
ATOM	1322	C	MET	A	164	7.033	-18.484	40.306	1.00	112.94	C
ATOM	1323	O	MET	A	164	7.011	-18.877	41.470	1.00	116.44	O
ATOM	1324	CB	MET	A	164	6.855	-20.471	38.795	1.00	100.07	C
ATOM	1325	CG	MET	A	164	5.889	-21.480	38.238	1.00	99.08	C
ATOM	1326	SD	MET	A	164	4.913	-22.183	39.566	1.00	100.66	S
ATOM	1327	CE	MET	A	164	6.227	-22.729	40.650	1.00	102.12	C
ATOM	1328	N	LEU	A	165	7.805	-17.472	39.907	1.00	106.04	N
ATOM	1329	CA	LEU	A	165	8.505	-16.649	40.890	1.00	110.81	C
ATOM	1330	C	LEU	A	165	7.511	-15.695	41.508	1.00	112.22	C
ATOM	1331	O	LEU	A	165	7.444	-15.544	42.734	1.00	117.17	O
ATOM	1332	CB	LEU	A	165	9.664	-15.870	40.263	1.00	70.84	C
ATOM	1333	CG	LEU	A	165	11.024	-16.579	40.281	1.00	75.26	C
ATOM	1334	CD1	LEU	A	165	12.166	-15.713	39.753	1.00	80.38	C
ATOM	1335	CD2	LEU	A	165	11.303	-17.036	41.699	1.00	80.44	C
ATOM	1336	N	ILE	A	166	6.723	-15.066	40.645	1.00	103.59	N
ATOM	1337	CA	ILE	A	166	5.676	-14.145	41.078	1.00	105.69	C

ATOM	1338	C	ILE	A	166	4.750	-14.742	42.151	1.00108.30	C
ATOM	1339	O	ILE	A	166	4.348	-14.050	43.094	1.00113.74	O
ATOM	1340	CB	ILE	A	166	4.839	-13.672	39.874	1.00 65.02	C
ATOM	1341	CG1	ILE	A	166	5.648	-12.687	39.020	1.00 65.88	C
ATOM	1342	CG2	ILE	A	166	3.548	-13.072	40.341	1.00 67.98	C
ATOM	1343	CD1	ILE	A	166	4.902	-12.144	37.818	1.00 65.55	C
ATOM	1344	N	LEU	A	167	4.433	-16.025	42.008	1.00 83.94	N
ATOM	1345	CA	LEU	A	167	3.527	-16.713	42.913	1.00 87.41	C
ATOM	1346	C	LEU	A	167	4.159	-17.005	44.283	1.00 92.66	C
ATOM	1347	O	LEU	A	167	3.492	-16.919	45.324	1.00 98.54	O
ATOM	1348	CB	LEU	A	167	3.021	-18.011	42.268	1.00 85.95	C
ATOM	1349	CG	LEU	A	167	2.264	-19.049	43.128	1.00 90.00	C
ATOM	1350	CD1	LEU	A	167	0.744	-19.039	42.923	1.00 92.38	C
ATOM	1351	CD2	LEU	A	167	2.805	-20.439	42.854	1.00 87.86	C
ATOM	1352	N	LEU	A	168	5.435	-17.372	44.295	1.00122.57	N
ATOM	1353	CA	LEU	A	168	6.117	-17.542	45.566	1.00129.33	C
ATOM	1354	C	LEU	A	168	6.192	-16.197	46.217	1.00135.03	C
ATOM	1355	O	LEU	A	168	6.143	-16.080	47.427	1.00142.95	O
ATOM	1356	CB	LEU	A	168	7.532	-18.047	45.384	1.00 76.65	C
ATOM	1357	CG	LEU	A	168	8.422	-17.535	46.506	1.00 85.49	C
ATOM	1358	CD1	LEU	A	168	9.272	-18.643	47.123	1.00 91.12	C
ATOM	1359	CD2	LEU	A	168	9.256	-16.377	45.983	1.00 85.13	C
ATOM	1360	N	THR	A	169	6.358	-15.171	45.401	1.00 89.90	N
ATOM	1361	CA	THR	A	169	6.282	-13.815	45.911	1.00 95.41	C
ATOM	1362	C	THR	A	169	4.945	-13.577	46.653	1.00 99.90	C
ATOM	1363	O	THR	A	169	4.927	-13.198	47.849	1.00108.93	O
ATOM	1364	CB	THR	A	169	6.481	-12.801	44.760	1.00 80.55	C
ATOM	1365	CG2	THR	A	169	5.533	-11.635	44.908	1.00 83.03	C
ATOM	1366	OG1	THR	A	169	7.846	-12.342	44.742	1.00 84.48	O
ATOM	1367	N	PHE	A	170	3.839	-13.818	45.941	1.00 92.31	N
ATOM	1368	CA	PHE	A	170	2.494	-13.694	46.512	1.00 97.44	C
ATOM	1369	C	PHE	A	170	2.424	-14.396	47.847	1.00104.97	C
ATOM	1370	O	PHE	A	170	2.094	-13.788	48.867	1.00114.00	O
ATOM	1371	CB	PHE	A	170	1.425	-14.307	45.602	1.00107.60	C
ATOM	1372	CG	PHE	A	170	1.019	-13.430	44.440	1.00104.80	C
ATOM	1373	CD1	PHE	A	170	1.734	-12.272	44.122	1.00103.64	C
ATOM	1374	CD2	PHE	A	170	-0.086	-13.766	43.660	1.00104.62	C
ATOM	1375	CE1	PHE	A	170	1.350	-11.466	43.049	1.00102.26	C
ATOM	1376	CE2	PHE	A	170	-0.480	-12.967	42.584	1.00103.68	C
ATOM	1377	CZ	PHE	A	170	0.236	-11.814	42.280	1.00102.45	C
ATOM	1378	N	ILE	A	171	2.735	-15.687	47.839	1.00 89.44	N
ATOM	1379	CA	ILE	A	171	2.624	-16.498	49.052	1.00 97.20	C
ATOM	1380	C	ILE	A	171	3.491	-15.971	50.208	1.00106.33	C
ATOM	1381	O	ILE	A	171	3.014	-15.841	51.336	1.00116.60	O
ATOM	1382	CB	ILE	A	171	2.865	-17.999	48.739	1.00 93.31	C
ATOM	1383	CG1	ILE	A	171	2.049	-18.371	47.496	1.00 86.06	C
ATOM	1384	CG2	ILE	A	171	2.534	-18.890	49.941	1.00102.19	C
ATOM	1385	CD1	ILE	A	171	1.897	-19.843	47.261	1.00 83.11	C
ATOM	1386	N	ARG	A	172	4.745	-15.634	49.924	1.00 99.76	N
ATOM	1387	CA	ARG	A	172	5.633	-15.151	50.965	1.00109.97	C
ATOM	1388	C	ARG	A	172	5.014	-13.895	51.550	1.00118.08	C
ATOM	1389	O	ARG	A	172	5.086	-13.668	52.766	1.00130.02	O
ATOM	1390	CB	ARG	A	172	7.067	-14.913	50.459	1.00139.00	C
ATOM	1391	CG	ARG	A	172	8.114	-14.967	51.578	1.00147.50	C
ATOM	1392	CD	ARG	A	172	9.518	-15.149	51.051	1.00147.73	C
ATOM	1393	NE	ARG	A	172	10.360	-14.030	51.431	1.00148.94	N
ATOM	1394	CZ	ARG	A	172	10.045	-12.760	51.178	1.00143.27	C
ATOM	1395	NH1	ARG	A	172	8.908	-12.476	50.553	1.00136.07	N1+
ATOM	1396	NH2	ARG	A	172	10.857	-11.765	51.541	1.00147.42	N
ATOM	1397	N	LEU	A	173	4.370	-13.090	50.699	1.00 95.45	N
ATOM	1398	CA	LEU	A	173	3.603	-11.957	51.242	1.00103.92	C

ATOM	1399	C	LEU	A	173	2.495	-12.424	52.161	1.00111.74	C
ATOM	1400	O	LEU	A	173	2.396	-11.935	53.269	1.00124.00	O
ATOM	1401	CB	LEU	A	173	3.000	-11.057	50.163	1.00107.68	C
ATOM	1402	CG	LEU	A	173	2.315	-9.834	50.779	1.00117.91	C
ATOM	1403	CD1	LEU	A	173	3.378	-8.971	51.400	1.00125.35	C
ATOM	1404	CD2	LEU	A	173	1.514	-9.057	49.753	1.00113.16	C
ATOM	1405	N	THR	A	174	1.663	-13.357	51.704	1.00110.31	N
ATOM	1406	CA	THR	A	174	0.579	-13.861	52.550	1.00118.56	C
ATOM	1407	C	THR	A	174	1.071	-14.248	53.936	1.00130.36	C
ATOM	1408	O	THR	A	174	0.462	-13.900	54.956	1.00143.29	O
ATOM	1409	CB	THR	A	174	-0.088	-15.139	52.002	1.00109.84	C
ATOM	1410	CG2	THR	A	174	-1.546	-15.218	52.461	1.00118.10	C
ATOM	1411	OG1	THR	A	174	-0.018	-15.167	50.576	1.00 97.91	O
ATOM	1412	N	ILE	A	175	2.166	-14.994	53.976	1.00124.89	N
ATOM	1413	CA	ILE	A	175	2.607	-15.575	55.234	1.00136.96	C
ATOM	1414	C	ILE	A	175	3.438	-14.627	56.090	1.00148.66	C
ATOM	1415	O	ILE	A	175	3.027	-14.263	57.195	1.00163.26	O
ATOM	1416	CB	ILE	A	175	3.341	-16.895	55.000	1.00142.52	C
ATOM	1417	CG1	ILE	A	175	2.342	-17.931	54.477	1.00134.11	C
ATOM	1418	CG2	ILE	A	175	4.036	-17.348	56.277	1.00157.78	C
ATOM	1419	CD1	ILE	A	175	2.732	-19.361	54.745	1.00133.97	C
ATOM	1420	N	ASN	A	176	4.593	-14.221	55.571	1.00132.96	N
ATOM	1421	CA	ASN	A	176	5.508	-13.385	56.341	1.00145.26	C
ATOM	1422	C	ASN	A	176	5.163	-11.903	56.314	1.00148.10	C
ATOM	1423	O	ASN	A	176	5.646	-11.144	57.148	1.00161.70	O
ATOM	1424	CB	ASN	A	176	6.950	-13.584	55.879	1.00190.14	C
ATOM	1425	CG	ASN	A	176	7.414	-15.014	56.022	1.00185.99	C
ATOM	1426	ND2	ASN	A	176	6.746	-15.774	56.883	1.00193.93	N
ATOM	1427	OD1	ASN	A	176	8.357	-15.437	55.358	1.00176.73	O
ATOM	1428	N	LYS	A	177	4.335	-11.500	55.354	1.00126.70	N
ATOM	1429	CA	LYS	A	177	3.922	-10.100	55.201	1.00130.47	C
ATOM	1430	C	LYS	A	177	5.082	-9.102	55.234	1.00132.38	C
ATOM	1431	O	LYS	A	177	4.874	-7.911	55.470	1.00139.91	O
ATOM	1432	CB	LYS	A	177	2.877	-9.720	56.255	1.00111.72	C
ATOM	1433	CG	LYS	A	177	1.716	-10.699	56.360	1.00112.03	C
ATOM	1434	CD	LYS	A	177	0.587	-10.130	57.184	1.00125.20	C
ATOM	1435	CE	LYS	A	177	-0.551	-11.116	57.300	1.00126.17	C
ATOM	1436	NZ	LYS	A	177	-1.679	-10.486	58.031	1.00139.64	N1+
ATOM	1437	N	ASP	A	178	6.298	-9.591	54.994	1.00211.62	N
ATOM	1438	CA	ASP	A	178	7.484	-8.743	55.007	1.00213.71	C
ATOM	1439	C	ASP	A	178	7.499	-7.873	53.763	1.00209.07	C
ATOM	1440	O	ASP	A	178	7.071	-8.295	52.691	1.00199.56	O
ATOM	1441	CB	ASP	A	178	8.760	-9.585	55.092	1.00169.89	C
ATOM	1442	CG	ASP	A	178	9.139	-10.215	53.761	1.00171.80	C
ATOM	1443	OD1	ASP	A	178	8.235	-10.500	52.946	1.00176.06	O
ATOM	1444	OD2	ASP	A	178	10.352	-10.420	53.534	1.00169.81	O1-
ATOM	1445	N	ILE	A	179	8.002	-6.656	53.908	1.00193.10	N
ATOM	1446	CA	ILE	A	179	7.887	-5.673	52.846	1.00191.17	C
ATOM	1447	C	ILE	A	179	8.681	-5.986	51.580	1.00181.89	C
ATOM	1448	O	ILE	A	179	8.319	-5.511	50.516	1.00177.51	O
ATOM	1449	CB	ILE	A	179	8.255	-4.259	53.329	1.00179.01	C
ATOM	1450	CG1	ILE	A	179	7.569	-3.946	54.659	1.00189.61	C
ATOM	1451	CG2	ILE	A	179	7.866	-3.227	52.292	1.00178.14	C
ATOM	1452	CD1	ILE	A	179	7.946	-2.590	55.234	1.00202.73	C
ATOM	1453	N	PHE	A	180	9.755	-6.762	51.657	1.00160.29	N
ATOM	1454	CA	PHE	A	180	10.526	-7.002	50.439	1.00152.75	C
ATOM	1455	C	PHE	A	180	9.655	-7.522	49.281	1.00142.47	C
ATOM	1456	O	PHE	A	180	9.900	-7.186	48.116	1.00137.66	O
ATOM	1457	CB	PHE	A	180	11.744	-7.899	50.712	1.00161.22	C
ATOM	1458	CG	PHE	A	180	12.918	-7.154	51.315	1.00172.03	C
ATOM	1459	CD1	PHE	A	180	12.756	-6.386	52.465	1.00182.22	C

ATOM	1460	CD2	PHE	A	180	14.175	-7.201	50.719	1.00172.10	C
ATOM	1461	CE1	PHE	A	180	13.822	-5.690	53.007	1.00193.72	C
ATOM	1462	CE2	PHE	A	180	15.242	-6.507	51.262	1.00183.36	C
ATOM	1463	CZ	PHE	A	180	15.062	-5.751	52.405	1.00194.57	C
ATOM	1464	N	THR	A	181	8.623	-8.308	49.599	1.00145.34	N
ATOM	1465	CA	THR	A	181	7.635	-8.751	48.598	1.00137.98	C
ATOM	1466	C	THR	A	181	7.095	-7.618	47.723	1.00138.84	C
ATOM	1467	O	THR	A	181	7.050	-7.750	46.503	1.00133.08	O
ATOM	1468	CB	THR	A	181	6.447	-9.512	49.232	1.00140.97	C
ATOM	1469	CG2	THR	A	181	5.248	-9.484	48.312	1.00137.76	C
ATOM	1470	OG1	THR	A	181	6.809	-10.880	49.451	1.00136.94	O
ATOM	1471	N	LEU	A	182	6.678	-6.519	48.348	1.00126.10	N
ATOM	1472	CA	LEU	A	182	6.221	-5.320	47.622	1.00128.88	C
ATOM	1473	C	LEU	A	182	7.172	-4.868	46.507	1.00126.73	C
ATOM	1474	O	LEU	A	182	6.738	-4.252	45.534	1.00127.04	O
ATOM	1475	CB	LEU	A	182	6.008	-4.133	48.587	1.00126.45	C
ATOM	1476	CG	LEU	A	182	4.776	-3.889	49.459	1.00131.31	C
ATOM	1477	CD1	LEU	A	182	5.077	-2.702	50.334	1.00141.95	C
ATOM	1478	CD2	LEU	A	182	3.519	-3.656	48.622	1.00126.13	C
ATOM	1479	N	LEU	A	183	8.473	-5.116	46.670	1.00114.07	N
ATOM	1480	CA	LEU	A	183	9.406	-4.676	45.633	1.00112.16	C
ATOM	1481	C	LEU	A	183	9.467	-5.722	44.536	1.00102.75	C
ATOM	1482	O	LEU	A	183	9.535	-5.396	43.342	1.00101.14	O
ATOM	1483	CB	LEU	A	183	10.801	-4.443	46.207	1.00109.69	C
ATOM	1484	CG	LEU	A	183	11.146	-2.960	46.291	1.00119.53	C
ATOM	1485	CD1	LEU	A	183	12.636	-2.736	46.127	1.00123.11	C
ATOM	1486	CD2	LEU	A	183	10.379	-2.188	45.226	1.00120.57	C
ATOM	1487	N	LEU	A	184	9.382	-6.982	44.962	1.00118.31	N
ATOM	1488	CA	LEU	A	184	9.604	-8.122	44.084	1.00110.69	C
ATOM	1489	C	LEU	A	184	8.463	-8.412	43.112	1.00106.80	C
ATOM	1490	O	LEU	A	184	8.688	-8.444	41.903	1.00104.70	O
ATOM	1491	CB	LEU	A	184	10.007	-9.360	44.892	1.00 93.16	C
ATOM	1492	CG	LEU	A	184	11.287	-9.091	45.695	1.00 98.68	C
ATOM	1493	CD1	LEU	A	184	12.146	-10.328	45.890	1.00 96.54	C
ATOM	1494	CD2	LEU	A	184	12.108	-8.027	44.998	1.00 99.82	C
ATOM	1495	N	SER	A	185	7.243	-8.599	43.602	1.00105.86	N
ATOM	1496	CA	SER	A	185	6.165	-8.951	42.673	1.00103.86	C
ATOM	1497	C	SER	A	185	5.947	-7.933	41.542	1.00105.71	C
ATOM	1498	O	SER	A	185	5.755	-8.327	40.386	1.00102.20	O
ATOM	1499	CB	SER	A	185	4.855	-9.269	43.390	1.00 80.70	C
ATOM	1500	OG	SER	A	185	4.609	-8.304	44.371	1.00 87.92	O
ATOM	1501	N	PRO	A	186	5.971	-6.621	41.859	1.00105.77	N
ATOM	1502	CA	PRO	A	186	5.835	-5.680	40.743	1.00108.52	C
ATOM	1503	C	PRO	A	186	7.091	-5.620	39.885	1.00106.97	C
ATOM	1504	O	PRO	A	186	6.974	-5.261	38.719	1.00108.38	O
ATOM	1505	CB	PRO	A	186	5.568	-4.348	41.434	1.00 89.44	C
ATOM	1506	CG	PRO	A	186	6.142	-4.503	42.773	1.00 90.66	C
ATOM	1507	CD	PRO	A	186	5.927	-5.930	43.158	1.00 84.57	C
ATOM	1508	N	ILE	A	187	8.252	-5.981	40.434	1.00100.13	N
ATOM	1509	CA	ILE	A	187	9.444	-6.205	39.607	1.00 98.69	C
ATOM	1510	C	ILE	A	187	9.337	-7.471	38.731	1.00 92.03	C
ATOM	1511	O	ILE	A	187	9.453	-7.400	37.502	1.00 92.26	O
ATOM	1512	CB	ILE	A	187	10.718	-6.281	40.453	1.00 94.68	C
ATOM	1513	CG1	ILE	A	187	11.242	-4.881	40.728	1.00102.83	C
ATOM	1514	CG2	ILE	A	187	11.790	-7.147	39.760	1.00 91.06	C
ATOM	1515	CD1	ILE	A	187	12.622	-4.887	41.320	1.00106.19	C
ATOM	1516	N	PHE	A	188	9.113	-8.624	39.347	1.00100.08	N
ATOM	1517	CA	PHE	A	188	8.906	-9.822	38.557	1.00 94.77	C
ATOM	1518	C	PHE	A	188	7.844	-9.600	37.478	1.00 95.62	C
ATOM	1519	O	PHE	A	188	8.147	-9.710	36.283	1.00 95.54	O
ATOM	1520	CB	PHE	A	188	8.570	-11.009	39.441	1.00106.25	C

ATOM	1521	CG	PHE	A	188	9.747	-11.533	40.190	1.00105.40	C
ATOM	1522	CD1	PHE	A	188	9.588	-12.420	41.241	1.00105.58	C
ATOM	1523	CD2	PHE	A	188	11.021	-11.132	39.841	1.00105.78	C
ATOM	1524	CE1	PHE	A	188	10.682	-12.899	41.920	1.00104.53	C
ATOM	1525	CE2	PHE	A	188	12.118	-11.610	40.515	1.00105.32	C
ATOM	1526	CZ	PHE	A	188	11.951	-12.492	41.555	1.00103.70	C
ATOM	1527	N	ILE	A	189	6.622	-9.264	37.896	1.00103.30	N
ATOM	1528	CA	ILE	A	189	5.524	-8.905	36.982	1.00105.65	C
ATOM	1529	C	ILE	A	189	5.939	-8.011	35.804	1.00109.99	C
ATOM	1530	O	ILE	A	189	5.319	-8.052	34.734	1.00112.61	O
ATOM	1531	CB	ILE	A	189	4.420	-8.162	37.730	1.00 99.89	C
ATOM	1532	CG1	ILE	A	189	3.177	-9.019	37.848	1.00 98.10	C
ATOM	1533	CG2	ILE	A	189	4.030	-6.931	36.971	1.00104.95	C
ATOM	1534	CD1	ILE	A	189	2.137	-8.693	36.802	1.00 98.84	C
ATOM	1535	N	MET	A	190	6.969	-7.190	36.015	1.00 97.32	N
ATOM	1536	CA	MET	A	190	7.496	-6.316	34.965	1.00103.71	C
ATOM	1537	C	MET	A	190	8.417	-7.081	34.016	1.00102.69	C
ATOM	1538	O	MET	A	190	8.215	-7.097	32.794	1.00107.29	O
ATOM	1539	CB	MET	A	190	8.266	-5.143	35.582	1.00 99.55	C
ATOM	1540	CG	MET	A	190	7.417	-4.080	36.273	1.00104.43	C
ATOM	1541	SD	MET	A	190	8.348	-2.547	36.512	1.00113.42	S
ATOM	1542	CE	MET	A	190	8.302	-1.883	34.849	1.00120.88	C
ATOM	1543	N	ILE	A	191	9.425	-7.719	34.601	1.00 93.17	N
ATOM	1544	CA	ILE	A	191	10.346	-8.539	33.842	1.00 92.65	C
ATOM	1545	C	ILE	A	191	9.589	-9.541	32.989	1.00 90.48	C
ATOM	1546	O	ILE	A	191	9.806	-9.592	31.777	1.00 94.57	O
ATOM	1547	CB	ILE	A	191	11.292	-9.295	34.762	1.00 74.14	C
ATOM	1548	CG1	ILE	A	191	12.138	-8.292	35.564	1.00 78.84	C
ATOM	1549	CG2	ILE	A	191	12.123	-10.319	33.959	1.00 72.90	C
ATOM	1550	CD1	ILE	A	191	12.822	-8.886	36.815	1.00 76.40	C
ATOM	1551	N	TYR	A	192	8.702	-10.329	33.610	1.00 84.77	N
ATOM	1552	CA	TYR	A	192	7.838	-11.255	32.863	1.00 83.78	C
ATOM	1553	C	TYR	A	192	7.194	-10.541	31.678	1.00 91.42	C
ATOM	1554	O	TYR	A	192	7.245	-11.018	30.547	1.00 94.66	O
ATOM	1555	CB	TYR	A	192	6.750	-11.858	33.757	1.00102.87	C
ATOM	1556	CG	TYR	A	192	6.061	-13.081	33.166	1.00101.17	C
ATOM	1557	CD1	TYR	A	192	6.624	-13.783	32.124	1.00101.97	C
ATOM	1558	CD2	TYR	A	192	4.842	-13.530	33.652	1.00 99.87	C
ATOM	1559	CE1	TYR	A	192	5.996	-14.901	31.578	1.00101.50	C
ATOM	1560	CE2	TYR	A	192	4.207	-14.640	33.107	1.00 99.40	C
ATOM	1561	CZ	TYR	A	192	4.793	-15.322	32.068	1.00100.20	C
ATOM	1562	OH	TYR	A	192	4.194	-16.434	31.510	1.00100.69	O
ATOM	1563	N	LEU	A	193	6.620	-9.371	31.946	1.00 75.32	N
ATOM	1564	CA	LEU	A	193	5.918	-8.590	30.924	1.00 84.21	C
ATOM	1565	C	LEU	A	193	6.885	-8.057	29.846	1.00 91.13	C
ATOM	1566	O	LEU	A	193	6.521	-7.885	28.682	1.00 99.40	O
ATOM	1567	CB	LEU	A	193	5.126	-7.450	31.601	1.00 84.71	C
ATOM	1568	CG	LEU	A	193	3.644	-7.221	31.261	1.00 90.47	C
ATOM	1569	CD1	LEU	A	193	2.912	-8.530	31.115	1.00 87.13	C
ATOM	1570	CD2	LEU	A	193	2.979	-6.370	32.318	1.00 94.07	C
ATOM	1571	N	TRP	A	194	8.123	-7.796	30.244	1.00117.66	N
ATOM	1572	CA	TRP	A	194	9.135	-7.403	29.282	1.00124.58	C
ATOM	1573	C	TRP	A	194	9.389	-8.550	28.357	1.00124.97	C
ATOM	1574	O	TRP	A	194	9.257	-8.434	27.140	1.00132.38	O
ATOM	1575	CB	TRP	A	194	10.461	-7.105	29.976	1.00 87.53	C
ATOM	1576	CG	TRP	A	194	11.627	-7.023	29.001	1.00 94.32	C
ATOM	1577	CD1	TRP	A	194	11.692	-6.278	27.853	1.00104.82	C
ATOM	1578	CD2	TRP	A	194	12.883	-7.693	29.108	1.00 89.41	C
ATOM	1579	CE2	TRP	A	194	13.654	-7.315	28.000	1.00 97.25	C
ATOM	1580	CE3	TRP	A	194	13.425	-8.585	30.031	1.00 79.35	C
ATOM	1581	NE1	TRP	A	194	12.908	-6.449	27.248	1.00106.63	N

ATOM	1582	CZ2	TRP	A	194	14.932	-7.800	27.794	1.00	93.28	C
ATOM	1583	CZ3	TRP	A	194	14.693	-9.056	29.827	1.00	75.39	C
ATOM	1584	CH2	TRP	A	194	15.432	-8.668	28.718	1.00	82.28	C
ATOM	1585	N	TRP	A	195	9.752	-9.663	28.981	1.00	98.64	N
ATOM	1586	CA	TRP	A	195	10.427	-10.768	28.329	1.00	93.08	C
ATOM	1587	C	TRP	A	195	9.446	-11.788	27.770	1.00	90.87	C
ATOM	1588	O	TRP	A	195	9.822	-12.911	27.425	1.00	83.15	O
ATOM	1589	CB	TRP	A	195	11.417	-11.402	29.314	1.00	137.33	C
ATOM	1590	CG	TRP	A	195	12.101	-12.656	28.844	1.00	128.60	C
ATOM	1591	CD1	TRP	A	195	13.363	-12.784	28.311	1.00	127.33	C
ATOM	1592	CD2	TRP	A	195	11.561	-13.957	28.898	1.00	121.40	C
ATOM	1593	CE2	TRP	A	195	12.524	-14.835	28.377	1.00	115.74	C
ATOM	1594	CE3	TRP	A	195	10.342	-14.469	29.330	1.00	120.70	C
ATOM	1595	NE1	TRP	A	195	13.623	-14.097	28.025	1.00	119.63	N
ATOM	1596	CZ2	TRP	A	195	12.305	-16.181	28.285	1.00	109.24	C
ATOM	1597	CZ3	TRP	A	195	10.123	-15.792	29.230	1.00	114.68	C
ATOM	1598	CH2	TRP	A	195	11.094	-16.644	28.718	1.00	108.66	C
ATOM	1599	N	TYR	A	196	8.187	-11.363	27.669	1.00	88.38	N
ATOM	1600	CA	TYR	A	196	7.118	-12.104	26.998	1.00	90.49	C
ATOM	1601	C	TYR	A	196	5.875	-11.225	27.000	1.00	98.36	C
ATOM	1602	O	TYR	A	196	5.094	-11.246	27.953	1.00	93.33	O
ATOM	1603	CB	TYR	A	196	6.826	-13.424	27.714	1.00	98.79	C
ATOM	1604	CG	TYR	A	196	5.991	-14.412	26.926	1.00	101.38	C
ATOM	1605	CD1	TYR	A	196	5.899	-15.722	27.322	1.00	95.73	C
ATOM	1606	CD2	TYR	A	196	5.301	-14.034	25.787	1.00	110.94	C
ATOM	1607	CE1	TYR	A	196	5.145	-16.630	26.614	1.00	99.54	C
ATOM	1608	CE2	TYR	A	196	4.545	-14.939	25.077	1.00	114.94	C
ATOM	1609	CZ	TYR	A	196	4.473	-16.236	25.501	1.00	107.78	C
ATOM	1610	OH	TYR	A	196	3.723	-17.160	24.819	1.00	108.77	O
ATOM	1611	N	PRO	A	197	5.673	-10.465	25.918	1.00	87.07	N
ATOM	1612	CA	PRO	A	197	4.603	-9.470	25.859	1.00	94.60	C
ATOM	1613	C	PRO	A	197	3.219	-10.069	26.126	1.00	94.80	C
ATOM	1614	O	PRO	A	197	2.250	-9.356	26.407	1.00	101.21	O
ATOM	1615	CB	PRO	A	197	4.668	-8.994	24.406	1.00	143.81	C
ATOM	1616	CG	PRO	A	197	5.147	-10.180	23.662	1.00	141.72	C
ATOM	1617	CD	PRO	A	197	6.201	-10.763	24.577	1.00	127.07	C
ATOM	1618	N	SER	A	198	3.125	-11.383	26.023	1.00	98.34	N
ATOM	1619	CA	SER	A	198	1.828	-12.002	25.920	1.00	101.70	C
ATOM	1620	C	SER	A	198	1.399	-12.512	27.265	1.00	90.37	C
ATOM	1621	O	SER	A	198	0.244	-12.861	27.467	1.00	92.04	O
ATOM	1622	CB	SER	A	198	1.866	-13.112	24.879	1.00	97.64	C
ATOM	1623	OG	SER	A	198	2.427	-12.635	23.670	1.00	104.57	O
ATOM	1624	N	SER	A	199	2.327	-12.532	28.203	1.00	92.98	N
ATOM	1625	CA	SER	A	199	1.982	-12.986	29.530	1.00	84.03	C
ATOM	1626	C	SER	A	199	0.970	-12.004	30.097	1.00	87.58	C
ATOM	1627	O	SER	A	199	0.492	-12.153	31.217	1.00	82.98	O
ATOM	1628	CB	SER	A	199	3.226	-13.084	30.414	1.00	80.87	C
ATOM	1629	OG	SER	A	199	3.922	-11.853	30.472	1.00	83.70	O
ATOM	1630	N	TYR	A	200	0.619	-11.000	29.303	1.00	98.52	N
ATOM	1631	CA	TYR	A	200	-0.292	-9.968	29.776	1.00	103.90	C
ATOM	1632	C	TYR	A	200	-1.504	-10.538	30.502	1.00	102.60	C
ATOM	1633	O	TYR	A	200	-1.567	-10.495	31.730	1.00	97.33	O
ATOM	1634	CB	TYR	A	200	-0.750	-9.051	28.654	1.00	108.69	C
ATOM	1635	CG	TYR	A	200	-1.543	-7.907	29.206	1.00	114.79	C
ATOM	1636	CD1	TYR	A	200	-0.909	-6.818	29.786	1.00	113.64	C
ATOM	1637	CD2	TYR	A	200	-2.921	-7.937	29.203	1.00	122.95	C
ATOM	1638	CE1	TYR	A	200	-1.628	-5.781	30.316	1.00	119.91	C
ATOM	1639	CE2	TYR	A	200	-3.650	-6.904	29.727	1.00	129.61	C
ATOM	1640	CZ	TYR	A	200	-3.002	-5.830	30.283	1.00	127.62	C
ATOM	1641	OH	TYR	A	200	-3.741	-4.798	30.810	1.00	135.07	O
ATOM	1642	N	SER	A	201	-2.456	-11.069	29.745	1.00	125.83	N

ATOM	1643	CA	SER	A	201	-3.616	-11.703	30.341	1.00125.56	C
ATOM	1644	C	SER	A	201	-3.283	-12.539	31.580	1.00113.58	C
ATOM	1645	O	SER	A	201	-3.872	-12.297	32.617	1.00112.15	O
ATOM	1646	CB	SER	A	201	-4.346	-12.536	29.313	1.00119.38	C
ATOM	1647	OG	SER	A	201	-3.400	-13.169	28.491	1.00118.44	O
ATOM	1648	N	LEU	A	202	-2.360	-13.503	31.485	1.00 98.59	N
ATOM	1649	CA	LEU	A	202	-1.937	-14.307	32.651	1.00 88.69	C
ATOM	1650	C	LEU	A	202	-1.620	-13.473	33.929	1.00 84.91	C
ATOM	1651	O	LEU	A	202	-2.025	-13.797	35.069	1.00 81.69	O
ATOM	1652	CB	LEU	A	202	-0.738	-15.181	32.258	1.00 93.88	C
ATOM	1653	CG	LEU	A	202	-0.030	-16.146	33.230	1.00 85.09	C
ATOM	1654	CD1	LEU	A	202	0.753	-15.452	34.386	1.00 78.84	C
ATOM	1655	CD2	LEU	A	202	-0.971	-17.214	33.770	1.00 84.81	C
ATOM	1656	N	ASN	A	203	-0.906	-12.376	33.741	1.00105.24	N
ATOM	1657	CA	ASN	A	203	-0.604	-11.460	34.833	1.00103.90	C
ATOM	1658	C	ASN	A	203	-1.819	-10.738	35.362	1.00109.88	C
ATOM	1659	O	ASN	A	203	-2.044	-10.624	36.588	1.00109.90	O
ATOM	1660	CB	ASN	A	203	0.390	-10.429	34.352	1.00 88.58	C
ATOM	1661	CG	ASN	A	203	1.727	-11.041	34.038	1.00 82.93	C
ATOM	1662	ND2	ASN	A	203	2.224	-10.820	32.816	1.00 87.01	N
ATOM	1663	OD1	ASN	A	203	2.306	-11.727	34.885	1.00 76.02	O
ATOM	1664	N	PHE	A	204	-2.600	-10.229	34.425	1.00 91.63	N
ATOM	1665	CA	PHE	A	204	-3.858	-9.614	34.775	1.00 98.67	C
ATOM	1666	C	PHE	A	204	-4.581	-10.535	35.730	1.00 95.08	C
ATOM	1667	O	PHE	A	204	-4.767	-10.205	36.879	1.00 94.24	O
ATOM	1668	CB	PHE	A	204	-4.732	-9.376	33.551	1.00 84.77	C
ATOM	1669	CG	PHE	A	204	-5.942	-8.545	33.841	1.00 94.98	C
ATOM	1670	CD1	PHE	A	204	-5.850	-7.158	33.912	1.00101.17	C
ATOM	1671	CD2	PHE	A	204	-7.168	-9.144	34.064	1.00 99.64	C
ATOM	1672	CE1	PHE	A	204	-6.971	-6.389	34.180	1.00111.86	C
ATOM	1673	CE2	PHE	A	204	-8.289	-8.379	34.330	1.00111.02	C
ATOM	1674	CZ	PHE	A	204	-8.191	-7.001	34.389	1.00117.02	C
ATOM	1675	N	ALA	A	205	-4.968	-11.698	35.230	1.00117.75	N
ATOM	1676	CA	ALA	A	205	-5.594	-12.766	35.996	1.00115.79	C
ATOM	1677	C	ALA	A	205	-4.978	-13.057	37.372	1.00110.19	C
ATOM	1678	O	ALA	A	205	-5.689	-13.046	38.388	1.00113.40	O
ATOM	1679	CB	ALA	A	205	-5.623	-14.013	35.165	1.00 64.00	C
ATOM	1680	N	MET	A	206	-3.678	-13.353	37.419	1.00119.42	N
ATOM	1681	CA	MET	A	206	-3.076	-13.590	38.739	1.00116.66	C
ATOM	1682	C	MET	A	206	-3.264	-12.432	39.715	1.00121.40	C
ATOM	1683	O	MET	A	206	-3.472	-12.643	40.923	1.00122.94	O
ATOM	1684	CB	MET	A	206	-1.606	-13.912	38.593	1.00112.32	C
ATOM	1685	CG	MET	A	206	-1.371	-15.321	38.195	1.00107.87	C
ATOM	1686	SD	MET	A	206	0.373	-15.606	38.095	1.00100.57	S
ATOM	1687	CE	MET	A	206	0.882	-15.252	39.775	1.00100.61	C
ATOM	1688	N	ILE	A	207	-3.198	-11.204	39.195	1.00 86.03	N
ATOM	1689	CA	ILE	A	207	-3.496	-10.029	40.025	1.00 92.49	C
ATOM	1690	C	ILE	A	207	-4.969	-9.953	40.461	1.00 99.69	C
ATOM	1691	O	ILE	A	207	-5.242	-9.739	41.632	1.00104.14	O
ATOM	1692	CB	ILE	A	207	-3.061	-8.738	39.321	1.00 68.56	C
ATOM	1693	CG1	ILE	A	207	-1.594	-8.863	38.908	1.00 63.20	C
ATOM	1694	CG2	ILE	A	207	-3.294	-7.544	40.194	1.00 75.49	C
ATOM	1695	CD1	ILE	A	207	-0.970	-7.563	38.508	1.00 65.35	C
ATOM	1696	N	GLY	A	208	-5.909	-10.153	39.541	1.00 97.03	N
ATOM	1697	CA	GLY	A	208	-7.312	-10.208	39.890	1.00103.54	C
ATOM	1698	C	GLY	A	208	-7.487	-11.155	41.059	1.00103.31	C
ATOM	1699	O	GLY	A	208	-7.991	-10.780	42.147	1.00109.23	O
ATOM	1700	N	LEU	A	209	-7.070	-12.398	40.854	1.00112.16	N
ATOM	1701	CA	LEU	A	209	-7.170	-13.374	41.914	1.00112.41	C
ATOM	1702	C	LEU	A	209	-6.604	-12.761	43.174	1.00113.97	C
ATOM	1703	O	LEU	A	209	-7.337	-12.619	44.127	1.00121.18	O

ATOM	1704	CB	LEU	A	209	-6.412	-14.644	41.578	1.00	75.61	C
ATOM	1705	CG	LEU	A	209	-7.128	-15.838	42.177	1.00	76.81	C
ATOM	1706	CD1	LEU	A	209	-8.493	-15.961	41.514	1.00	77.88	C
ATOM	1707	CD2	LEU	A	209	-6.326	-17.151	42.048	1.00	79.01	C
ATOM	1708	N	PHE	A	210	-5.317	-12.390	43.152	1.00	102.86	N
ATOM	1709	CA	PHE	A	210	-4.664	-11.849	44.346	1.00	104.50	C
ATOM	1710	C	PHE	A	210	-5.483	-10.783	45.093	1.00	114.07	C
ATOM	1711	O	PHE	A	210	-5.394	-10.629	46.325	1.00	118.35	O
ATOM	1712	CB	PHE	A	210	-3.310	-11.283	43.988	1.00	105.58	C
ATOM	1713	CG	PHE	A	210	-2.535	-10.846	45.175	1.00	107.04	C
ATOM	1714	CD1	PHE	A	210	-1.951	-11.786	46.005	1.00	104.06	C
ATOM	1715	CD2	PHE	A	210	-2.403	-9.496	45.483	1.00	112.55	C
ATOM	1716	CE1	PHE	A	210	-1.242	-11.391	47.112	1.00	106.64	C
ATOM	1717	CE2	PHE	A	210	-1.687	-9.094	46.590	1.00	115.03	C
ATOM	1718	CZ	PHE	A	210	-1.108	-10.040	47.410	1.00	112.19	C
ATOM	1719	N	GLY	A	211	-6.266	-10.033	44.329	1.00	88.83	N
ATOM	1720	CA	GLY	A	211	-7.150	-9.026	44.880	1.00	98.92	C
ATOM	1721	C	GLY	A	211	-8.399	-9.602	45.521	1.00	105.16	C
ATOM	1722	O	GLY	A	211	-8.678	-9.282	46.655	1.00	110.60	O
ATOM	1723	N	LEU	A	212	-9.152	-10.431	44.790	1.00	121.09	N
ATOM	1724	CA	LEU	A	212	-10.383	-10.998	45.375	1.00	128.12	C
ATOM	1725	C	LEU	A	212	-10.012	-11.762	46.635	1.00	127.34	C
ATOM	1726	O	LEU	A	212	-10.770	-11.816	47.611	1.00	135.97	O
ATOM	1727	CB	LEU	A	212	-11.119	-11.920	44.408	1.00	104.84	C
ATOM	1728	CG	LEU	A	212	-11.476	-11.487	42.980	1.00	105.13	C
ATOM	1729	CD1	LEU	A	212	-12.673	-12.297	42.509	1.00	110.65	C
ATOM	1730	CD2	LEU	A	212	-11.734	-9.956	42.741	1.00	112.07	C
ATOM	1731	N	TYR	A	213	-8.813	-12.323	46.601	1.00	128.44	N
ATOM	1732	CA	TYR	A	213	-8.245	-13.092	47.693	1.00	127.08	C
ATOM	1733	C	TYR	A	213	-7.877	-12.175	48.853	1.00	132.66	C
ATOM	1734	O	TYR	A	213	-8.212	-12.462	50.003	1.00	138.99	O
ATOM	1735	CB	TYR	A	213	-7.012	-13.856	47.208	1.00	129.50	C
ATOM	1736	CG	TYR	A	213	-6.207	-14.552	48.278	1.00	127.63	C
ATOM	1737	CD1	TYR	A	213	-6.337	-15.918	48.497	1.00	126.12	C
ATOM	1738	CD2	TYR	A	213	-5.286	-13.849	49.035	1.00	128.14	C
ATOM	1739	CE1	TYR	A	213	-5.591	-16.551	49.450	1.00	125.28	C
ATOM	1740	CE2	TYR	A	213	-4.538	-14.475	49.993	1.00	127.45	C
ATOM	1741	CZ	TYR	A	213	-4.691	-15.820	50.200	1.00	126.00	C
ATOM	1742	OH	TYR	A	213	-3.927	-16.414	51.174	1.00	126.35	O
ATOM	1743	N	THR	A	214	-7.201	-11.064	48.554	1.00	107.62	N
ATOM	1744	CA	THR	A	214	-6.988	-10.024	49.578	1.00	115.12	C
ATOM	1745	C	THR	A	214	-8.303	-9.610	50.251	1.00	127.24	C
ATOM	1746	O	THR	A	214	-8.353	-9.401	51.456	1.00	135.93	O
ATOM	1747	CB	THR	A	214	-6.314	-8.755	49.000	1.00	126.47	C
ATOM	1748	CG2	THR	A	214	-6.743	-7.513	49.765	1.00	137.28	C
ATOM	1749	OG1	THR	A	214	-4.893	-8.881	49.105	1.00	118.35	O
ATOM	1750	N	LEU	A	215	-9.363	-9.504	49.461	1.00	117.47	N
ATOM	1751	CA	LEU	A	215	-10.689	-9.141	49.936	1.00	129.65	C
ATOM	1752	C	LEU	A	215	-11.273	-10.198	50.838	1.00	134.49	C
ATOM	1753	O	LEU	A	215	-11.876	-9.890	51.852	1.00	145.31	O
ATOM	1754	CB	LEU	A	215	-11.646	-8.904	48.763	1.00	110.56	C
ATOM	1755	CG	LEU	A	215	-11.412	-7.592	47.995	1.00	111.48	C
ATOM	1756	CD1	LEU	A	215	-12.757	-7.018	47.585	1.00	121.34	C
ATOM	1757	CD2	LEU	A	215	-10.595	-6.597	48.824	1.00	115.15	C
ATOM	1758	N	VAL	A	216	-11.114	-11.455	50.472	1.00	120.36	N
ATOM	1759	CA	VAL	A	216	-11.579	-12.494	51.369	1.00	125.75	C
ATOM	1760	C	VAL	A	216	-10.675	-12.596	52.590	1.00	126.53	C
ATOM	1761	O	VAL	A	216	-10.975	-12.039	53.646	1.00	135.31	O
ATOM	1762	CB	VAL	A	216	-11.674	-13.874	50.724	1.00	103.53	C
ATOM	1763	CG1	VAL	A	216	-11.936	-14.912	51.804	1.00	107.08	C
ATOM	1764	CG2	VAL	A	216	-12.782	-13.893	49.686	1.00	108.78	C

ATOM	1765	N	PHE	A	217	-9.559	-13.291	52.434	1.00112.25	N
ATOM	1766	CA	PHE	A	217	-8.698	-13.630	53.550	1.00113.63	C
ATOM	1767	C	PHE	A	217	-7.972	-12.471	54.216	1.00119.07	C
ATOM	1768	O	PHE	A	217	-7.322	-12.642	55.250	1.00124.73	O
ATOM	1769	CB	PHE	A	217	-7.735	-14.691	53.088	1.00127.30	C
ATOM	1770	CG	PHE	A	217	-8.431	-15.876	52.561	1.00126.96	C
ATOM	1771	CD1	PHE	A	217	-9.049	-15.827	51.325	1.00123.83	C
ATOM	1772	CD2	PHE	A	217	-8.534	-17.020	53.318	1.00131.27	C
ATOM	1773	CE1	PHE	A	217	-9.736	-16.920	50.827	1.00124.83	C
ATOM	1774	CE2	PHE	A	217	-9.208	-18.110	52.833	1.00132.03	C
ATOM	1775	CZ	PHE	A	217	-9.815	-18.063	51.578	1.00128.83	C
ATOM	1776	N	HIS	A	218	-8.113	-11.283	53.650	1.00148.32	N
ATOM	1777	CA	HIS	A	218	-7.320	-10.172	54.123	1.00154.61	C
ATOM	1778	C	HIS	A	218	-7.965	-8.806	53.972	1.00160.08	C
ATOM	1779	O	HIS	A	218	-7.245	-7.829	53.790	1.00161.79	O
ATOM	1780	CB	HIS	A	218	-5.969	-10.161	53.397	1.00163.23	C
ATOM	1781	CG	HIS	A	218	-5.097	-11.327	53.729	1.00160.02	C
ATOM	1782	CD2	HIS	A	218	-4.879	-12.496	53.080	1.00153.18	C
ATOM	1783	ND1	HIS	A	218	-4.315	-11.375	54.866	1.00165.20	N
ATOM	1784	CE1	HIS	A	218	-3.659	-12.517	54.900	1.00161.53	C
ATOM	1785	NE2	HIS	A	218	-3.979	-13.219	53.825	1.00154.24	N
ATOM	1786	N	ARG	A	219	-9.288	-8.690	54.052	1.00142.81	N
ATOM	1787	CA	ARG	A	219	-9.854	-7.375	53.742	1.00142.09	C
ATOM	1788	C	ARG	A	219	-9.437	-6.254	54.698	1.00140.87	C
ATOM	1789	O	ARG	A	219	-9.819	-5.108	54.503	1.00136.93	O
ATOM	1790	CB	ARG	A	219	-11.364	-7.385	53.451	1.00177.28	C
ATOM	1791	CG	ARG	A	219	-12.272	-8.023	54.466	1.00178.77	C
ATOM	1792	CD	ARG	A	219	-13.686	-8.061	53.883	1.00184.75	C
ATOM	1793	NE	ARG	A	219	-14.577	-9.000	54.567	1.00191.03	N
ATOM	1794	CZ	ARG	A	219	-15.598	-9.630	53.988	1.00198.56	C
ATOM	1795	NH1	ARG	A	219	-15.864	-9.438	52.702	1.00200.14	N1+
ATOM	1796	NH2	ARG	A	219	-16.356	-10.461	54.694	1.00205.39	N
ATOM	1797	N	LYS	A	220	-8.612	-6.580	55.691	1.00132.99	N
ATOM	1798	CA	LYS	A	220	-8.186	-5.610	56.703	1.00133.43	C
ATOM	1799	C	LYS	A	220	-6.719	-5.204	56.598	1.00129.51	C
ATOM	1800	O	LYS	A	220	-6.377	-4.069	56.929	1.00127.49	O
ATOM	1801	CB	LYS	A	220	-8.443	-6.145	58.113	1.00177.62	C
ATOM	1802	CG	LYS	A	220	-9.772	-5.740	58.715	1.00183.21	C
ATOM	1803	CD	LYS	A	220	-10.113	-6.648	59.896	1.00190.54	C
ATOM	1804	CE	LYS	A	220	-11.474	-6.325	60.513	1.00196.49	C
ATOM	1805	NZ	LYS	A	220	-11.843	-7.303	61.583	1.00204.12	N1+
ATOM	1806	N	GLU	A	221	-5.856	-6.125	56.153	1.00141.62	N
ATOM	1807	CA	GLU	A	221	-4.395	-5.927	56.200	1.00139.57	C
ATOM	1808	C	GLU	A	221	-3.949	-4.806	55.274	1.00134.39	C
ATOM	1809	O	GLU	A	221	-4.513	-4.622	54.201	1.00131.97	O
ATOM	1810	CB	GLU	A	221	-3.630	-7.217	55.869	1.00191.98	C
ATOM	1811	CG	GLU	A	221	-3.673	-8.306	56.939	1.00198.17	C
ATOM	1812	CD	GLU	A	221	-4.852	-9.253	56.768	1.00199.41	C
ATOM	1813	OE1	GLU	A	221	-5.732	-8.961	55.937	1.00195.29	O
ATOM	1814	OE2	GLU	A	221	-4.904	-10.293	57.460	1.00204.98	O1-
ATOM	1815	N	LYS	A	222	-2.934	-4.056	55.686	1.00145.55	N
ATOM	1816	CA	LYS	A	222	-2.526	-2.884	54.914	1.00142.02	C
ATOM	1817	C	LYS	A	222	-1.678	-3.251	53.716	1.00141.33	C
ATOM	1818	O	LYS	A	222	-2.113	-3.084	52.573	1.00138.91	O
ATOM	1819	CB	LYS	A	222	-1.806	-1.851	55.793	1.00136.65	C
ATOM	1820	CG	LYS	A	222	-2.652	-0.606	56.080	1.00136.54	C
ATOM	1821	CD	LYS	A	222	-2.338	0.000	57.433	1.00138.08	C
ATOM	1822	CE	LYS	A	222	-3.456	0.929	57.844	1.00137.78	C
ATOM	1823	NZ	LYS	A	222	-3.326	1.390	59.249	1.00139.46	N1+
ATOM	1824	N	ILE	A	223	-0.476	-3.753	53.991	1.00157.77	N
ATOM	1825	CA	ILE	A	223	0.476	-4.097	52.944	1.00157.99	C

ATOM	1826	C	ILE	A	223	-0.221	-4.574	51.676	1.00156.37	C
ATOM	1827	O	ILE	A	223	0.194	-4.234	50.571	1.00155.61	O
ATOM	1828	CB	ILE	A	223	1.476	-5.178	53.398	1.00112.23	C
ATOM	1829	CG1	ILE	A	223	2.520	-4.591	54.348	1.00114.45	C
ATOM	1830	CG2	ILE	A	223	2.193	-5.726	52.207	1.00112.51	C
ATOM	1831	CD1	ILE	A	223	3.957	-4.825	53.903	1.00117.62	C
ATOM	1832	N	PHE	A	224	-1.294	-5.339	51.851	1.00128.85	N
ATOM	1833	CA	PHE	A	224	-1.989	-5.969	50.731	1.00128.17	C
ATOM	1834	C	PHE	A	224	-2.586	-5.056	49.658	1.00125.05	C
ATOM	1835	O	PHE	A	224	-2.427	-5.311	48.469	1.00125.01	O
ATOM	1836	CB	PHE	A	224	-3.033	-6.942	51.252	1.00127.22	C
ATOM	1837	CG	PHE	A	224	-2.436	-8.168	51.850	1.00130.98	C
ATOM	1838	CD1	PHE	A	224	-1.503	-8.068	52.867	1.00132.84	C
ATOM	1839	CD2	PHE	A	224	-2.782	-9.420	51.387	1.00133.13	C
ATOM	1840	CE1	PHE	A	224	-0.945	-9.191	53.422	1.00136.85	C
ATOM	1841	CE2	PHE	A	224	-2.223	-10.544	51.939	1.00137.02	C
ATOM	1842	CZ	PHE	A	224	-1.305	-10.430	52.959	1.00138.89	C
ATOM	1843	N	TYR	A	225	-3.271	-3.998	50.052	1.00148.60	N
ATOM	1844	CA	TYR	A	225	-3.831	-3.115	49.042	1.00146.19	C
ATOM	1845	C	TYR	A	225	-2.730	-2.342	48.334	1.00146.04	C
ATOM	1846	O	TYR	A	225	-2.792	-2.103	47.120	1.00145.65	O
ATOM	1847	CB	TYR	A	225	-4.857	-2.196	49.671	1.00126.73	C
ATOM	1848	CG	TYR	A	225	-5.968	-2.977	50.299	1.00127.81	C
ATOM	1849	CD1	TYR	A	225	-5.941	-3.279	51.649	1.00129.91	C
ATOM	1850	CD2	TYR	A	225	-7.027	-3.457	49.535	1.00127.53	C
ATOM	1851	CE1	TYR	A	225	-6.963	-4.013	52.238	1.00131.88	C
ATOM	1852	CE2	TYR	A	225	-8.055	-4.189	50.114	1.00129.31	C
ATOM	1853	CZ	TYR	A	225	-8.012	-4.460	51.468	1.00131.54	C
ATOM	1854	OH	TYR	A	225	-9.008	-5.178	52.070	1.00134.17	O
ATOM	1855	N	LEU	A	226	-1.709	-1.975	49.099	1.00109.20	N
ATOM	1856	CA	LEU	A	226	-0.519	-1.402	48.516	1.00110.09	C
ATOM	1857	C	LEU	A	226	-0.013	-2.329	47.428	1.00111.97	C
ATOM	1858	O	LEU	A	226	0.285	-1.902	46.310	1.00112.24	O
ATOM	1859	CB	LEU	A	226	0.569	-1.217	49.560	1.00116.06	C
ATOM	1860	CG	LEU	A	226	1.434	0.038	49.369	1.00115.68	C
ATOM	1861	CD1	LEU	A	226	2.878	-0.281	49.664	1.00117.62	C
ATOM	1862	CD2	LEU	A	226	1.317	0.667	47.973	1.00116.16	C
ATOM	1863	N	ALA	A	227	0.086	-3.611	47.743	1.00118.69	N
ATOM	1864	CA	ALA	A	227	0.575	-4.558	46.762	1.00120.86	C
ATOM	1865	C	ALA	A	227	-0.337	-4.620	45.541	1.00119.67	C
ATOM	1866	O	ALA	A	227	0.140	-4.421	44.439	1.00120.88	O
ATOM	1867	CB	ALA	A	227	0.756	-5.900	47.368	1.00116.57	C
ATOM	1868	N	ILE	A	228	-1.635	-4.874	45.716	1.00116.41	N
ATOM	1869	CA	ILE	A	228	-2.530	-4.867	44.558	1.00116.30	C
ATOM	1870	C	ILE	A	228	-2.238	-3.651	43.695	1.00115.79	C
ATOM	1871	O	ILE	A	228	-2.138	-3.753	42.478	1.00117.39	O
ATOM	1872	CB	ILE	A	228	-4.018	-4.775	44.913	1.00129.20	C
ATOM	1873	CG1	ILE	A	228	-4.498	-6.000	45.665	1.00130.19	C
ATOM	1874	CG2	ILE	A	228	-4.855	-4.676	43.647	1.00130.64	C
ATOM	1875	CD1	ILE	A	228	-5.995	-5.960	45.898	1.00129.40	C
ATOM	1876	N	ALA	A	229	-2.106	-2.490	44.326	1.00118.09	N
ATOM	1877	CA	ALA	A	229	-1.895	-1.264	43.559	1.00117.97	C
ATOM	1878	C	ALA	A	229	-0.560	-1.218	42.797	1.00121.56	C
ATOM	1879	O	ALA	A	229	-0.516	-0.778	41.651	1.00123.80	O
ATOM	1880	CB	ALA	A	229	-2.054	-0.050	44.451	1.00119.64	C
ATOM	1881	N	LEU	A	230	0.518	-1.671	43.427	1.00115.53	N
ATOM	1882	CA	LEU	A	230	1.817	-1.667	42.768	1.00119.33	C
ATOM	1883	C	LEU	A	230	1.893	-2.697	41.634	1.00119.84	C
ATOM	1884	O	LEU	A	230	2.471	-2.433	40.579	1.00120.00	O
ATOM	1885	CB	LEU	A	230	2.928	-1.941	43.770	1.00113.10	C
ATOM	1886	CG	LEU	A	230	3.062	-1.038	44.986	1.00113.60	C

ATOM	1887	CD1	LEU	A	230	4.148	-1.596	45.887	1.00113.51	C
ATOM	1888	CD2	LEU	A	230	3.371	0.388	44.584	1.00113.52	C
ATOM	1889	N	MET	A	231	1.348	-3.883	41.862	1.00135.43	N
ATOM	1890	CA	MET	A	231	1.234	-4.878	40.816	1.00136.60	C
ATOM	1891	C	MET	A	231	0.453	-4.268	39.650	1.00138.39	C
ATOM	1892	O	MET	A	231	0.890	-4.309	38.495	1.00139.19	O
ATOM	1893	CB	MET	A	231	0.528	-6.121	41.362	1.00111.20	C
ATOM	1894	CG	MET	A	231	1.375	-6.951	42.325	1.00109.76	C
ATOM	1895	SD	MET	A	231	0.438	-8.200	43.244	1.00112.66	S
ATOM	1896	CE	MET	A	231	-0.835	-8.585	42.056	1.00114.82	C
ATOM	1897	N	ILE	A	232	-0.691	-3.674	39.967	1.00113.28	N
ATOM	1898	CA	ILE	A	232	-1.550	-3.072	38.953	1.00113.79	C
ATOM	1899	C	ILE	A	232	-0.827	-1.994	38.156	1.00116.54	C
ATOM	1900	O	ILE	A	232	-1.022	-1.879	36.952	1.00119.93	O
ATOM	1901	CB	ILE	A	232	-2.837	-2.484	39.556	1.00107.93	C
ATOM	1902	CG1	ILE	A	232	-3.894	-3.582	39.748	1.00107.13	C
ATOM	1903	CG2	ILE	A	232	-3.387	-1.437	38.638	1.00108.34	C
ATOM	1904	CD1	ILE	A	232	-5.204	-3.101	40.357	1.00104.13	C
ATOM	1905	N	ILE	A	233	0.006	-1.211	38.833	1.00107.23	N
ATOM	1906	CA	ILE	A	233	0.857	-0.205	38.180	1.00107.33	C
ATOM	1907	C	ILE	A	233	1.928	-0.844	37.290	1.00107.19	C
ATOM	1908	O	ILE	A	233	2.313	-0.286	36.254	1.00108.89	O
ATOM	1909	CB	ILE	A	233	1.546	0.729	39.226	1.00105.49	C
ATOM	1910	CG1	ILE	A	233	0.654	1.922	39.558	1.00105.02	C
ATOM	1911	CG2	ILE	A	233	2.911	1.215	38.736	1.00104.78	C
ATOM	1912	CD1	ILE	A	233	1.327	2.920	40.442	1.00103.92	C
ATOM	1913	N	ALA	A	234	2.402	-2.016	37.710	1.00106.36	N
ATOM	1914	CA	ALA	A	234	3.428	-2.755	36.985	1.00106.57	C
ATOM	1915	C	ALA	A	234	2.834	-3.335	35.707	1.00109.11	C
ATOM	1916	O	ALA	A	234	3.534	-3.520	34.713	1.00110.73	O
ATOM	1917	CB	ALA	A	234	4.007	-3.857	37.873	1.00 66.92	C
ATOM	1918	N	LEU	A	235	1.530	-3.598	35.755	1.00113.10	N
ATOM	1919	CA	LEU	A	235	0.782	-4.126	34.620	1.00116.47	C
ATOM	1920	C	LEU	A	235	0.659	-3.109	33.486	1.00118.75	C
ATOM	1921	O	LEU	A	235	0.927	-3.431	32.337	1.00119.95	O
ATOM	1922	CB	LEU	A	235	-0.610	-4.568	35.077	1.00111.67	C
ATOM	1923	CG	LEU	A	235	-1.299	-5.651	34.244	1.00114.81	C
ATOM	1924	CD1	LEU	A	235	-0.473	-6.927	34.244	1.00114.04	C
ATOM	1925	CD2	LEU	A	235	-2.716	-5.926	34.740	1.00117.20	C
ATOM	1926	N	SER	A	236	0.261	-1.883	33.809	1.00115.36	N
ATOM	1927	CA	SER	A	236	0.016	-0.856	32.789	1.00118.74	C
ATOM	1928	C	SER	A	236	1.261	-0.470	31.981	1.00121.24	C
ATOM	1929	O	SER	A	236	2.368	-0.943	32.255	1.00120.33	O
ATOM	1930	CB	SER	A	236	-0.606	0.399	33.410	1.00150.90	C
ATOM	1931	OG	SER	A	236	0.382	1.171	34.071	1.00146.97	O
ATOM	1932	N	MET	A	237	1.050	0.409	30.994	1.00163.68	N
ATOM	1933	CA	MET	A	237	2.071	0.815	30.013	1.00165.18	C
ATOM	1934	C	MET	A	237	2.638	2.210	30.279	1.00167.15	C
ATOM	1935	O	MET	A	237	2.161	3.200	29.729	1.00172.01	O
ATOM	1936	CB	MET	A	237	1.480	0.779	28.601	1.00205.05	C
ATOM	1937	CG	MET	A	237	0.271	-0.135	28.473	1.00205.64	C
ATOM	1938	SD	MET	A	237	0.390	-1.325	27.128	1.00209.07	S
ATOM	1939	CE	MET	A	237	-0.815	-2.546	27.651	1.00205.91	C
ATOM	1940	N	LEU	A	238	3.674	2.269	31.109	1.00120.21	N
ATOM	1941	CA	LEU	A	238	4.252	3.525	31.581	1.00122.48	C
ATOM	1942	C	LEU	A	238	5.764	3.433	31.483	1.00117.70	C
ATOM	1943	O	LEU	A	238	6.353	2.551	32.111	1.00110.94	O
ATOM	1944	CB	LEU	A	238	3.915	3.761	33.068	1.00128.88	C
ATOM	1945	CG	LEU	A	238	2.538	4.148	33.621	1.00134.36	C
ATOM	1946	CD1	LEU	A	238	2.598	4.295	35.126	1.00133.97	C
ATOM	1947	CD2	LEU	A	238	2.057	5.430	32.995	1.00141.91	C

ATOM	1948	N	ALA	A	239	6.400	4.340	30.739	1.00140.79	N
ATOM	1949	CA	ALA	A	239	7.862	4.345	30.640	1.00137.57	C
ATOM	1950	C	ALA	A	239	8.509	3.732	31.892	1.00133.31	C
ATOM	1951	O	ALA	A	239	8.219	4.145	33.012	1.00130.58	O
ATOM	1952	CB	ALA	A	239	8.374	5.756	30.407	1.00337.41	C
ATOM	1953	N	TRP	A	240	9.371	2.735	31.697	1.00159.97	N
ATOM	1954	CA	TRP	A	240	9.986	1.982	32.800	1.00156.41	C
ATOM	1955	C	TRP	A	240	10.321	2.847	34.039	1.00154.70	C
ATOM	1956	O	TRP	A	240	10.203	2.398	35.188	1.00151.25	O
ATOM	1957	CB	TRP	A	240	11.243	1.262	32.286	1.00163.56	C
ATOM	1958	CG	TRP	A	240	12.447	2.155	32.241	1.00166.60	C
ATOM	1959	CD1	TRP	A	240	12.575	3.334	31.555	1.00171.45	C
ATOM	1960	CD2	TRP	A	240	13.687	1.952	32.923	1.00165.69	C
ATOM	1961	CE2	TRP	A	240	14.520	3.044	32.609	1.00170.22	C
ATOM	1962	CE3	TRP	A	240	14.175	0.952	33.769	1.00162.08	C
ATOM	1963	NE1	TRP	A	240	13.817	3.875	31.774	1.00173.71	N
ATOM	1964	CZ2	TRP	A	240	15.812	3.162	33.112	1.00171.20	C
ATOM	1965	CZ3	TRP	A	240	15.455	1.069	34.264	1.00162.99	C
ATOM	1966	CH2	TRP	A	240	16.260	2.165	33.936	1.00167.52	C
ATOM	1967	N	GLN	A	241	10.726	4.091	33.780	1.00158.04	N
ATOM	1968	CA	GLN	A	241	11.163	5.036	34.808	1.00157.49	C
ATOM	1969	C	GLN	A	241	10.062	5.394	35.808	1.00154.48	C
ATOM	1970	O	GLN	A	241	10.299	5.394	37.018	1.00152.04	O
ATOM	1971	CB	GLN	A	241	11.746	6.295	34.147	1.00199.43	C
ATOM	1972	CG	GLN	A	241	11.056	6.704	32.846	1.00203.31	C
ATOM	1973	CD	GLN	A	241	11.877	7.688	32.026	1.00209.01	C
ATOM	1974	NE2	GLN	A	241	11.202	8.479	31.199	1.00212.32	N
ATOM	1975	OE1	GLN	A	241	13.102	7.733	32.134	1.00210.97	O
ATOM	1976	N	TYR	A	242	8.869	5.698	35.295	1.00160.29	N
ATOM	1977	CA	TYR	A	242	7.692	5.982	36.121	1.00158.22	C
ATOM	1978	C	TYR	A	242	7.342	4.800	37.016	1.00154.10	C
ATOM	1979	O	TYR	A	242	6.945	4.972	38.171	1.00152.25	O
ATOM	1980	CB	TYR	A	242	6.484	6.331	35.245	1.00133.18	C
ATOM	1981	CG	TYR	A	242	6.613	7.664	34.532	1.00137.93	C
ATOM	1982	CD1	TYR	A	242	5.566	8.174	33.764	1.00143.06	C
ATOM	1983	CD2	TYR	A	242	7.785	8.418	34.629	1.00138.05	C
ATOM	1984	CE1	TYR	A	242	5.679	9.382	33.119	1.00148.08	C
ATOM	1985	CE2	TYR	A	242	7.907	9.623	33.986	1.00143.07	C
ATOM	1986	CZ	TYR	A	242	6.851	10.093	33.233	1.00148.07	C
ATOM	1987	OH	TYR	A	242	6.973	11.290	32.593	1.00153.77	O
ATOM	1988	N	LYS	A	243	7.488	3.600	36.465	1.00116.02	N
ATOM	1989	CA	LYS	A	243	7.256	2.371	37.206	1.00112.70	C
ATOM	1990	C	LYS	A	243	8.291	2.185	38.326	1.00110.86	C
ATOM	1991	O	LYS	A	243	7.952	2.304	39.499	1.00109.43	O
ATOM	1992	CB	LYS	A	243	7.242	1.182	36.244	1.00131.73	C
ATOM	1993	CG	LYS	A	243	6.161	1.254	35.156	1.00134.11	C
ATOM	1994	CD	LYS	A	243	5.054	0.227	35.394	1.00134.40	C
ATOM	1995	CE	LYS	A	243	4.577	-0.444	34.100	1.00136.19	C
ATOM	1996	NZ	LYS	A	243	5.589	-1.360	33.498	1.00136.31	N1+
ATOM	1997	N	LEU	A	244	9.540	1.907	37.970	1.00142.96	N
ATOM	1998	CA	LEU	A	244	10.593	1.794	38.973	1.00142.04	C
ATOM	1999	C	LEU	A	244	10.432	2.867	40.057	1.00141.80	C
ATOM	2000	O	LEU	A	244	10.370	2.561	41.247	1.00140.22	O
ATOM	2001	CB	LEU	A	244	11.964	1.938	38.312	1.00126.27	C
ATOM	2002	CG	LEU	A	244	12.985	0.817	38.514	1.00126.33	C
ATOM	2003	CD1	LEU	A	244	14.358	1.270	38.038	1.00129.74	C
ATOM	2004	CD2	LEU	A	244	13.043	0.346	39.968	1.00124.89	C
ATOM	2005	N	ALA	A	245	10.366	4.125	39.624	1.00142.81	N
ATOM	2006	CA	ALA	A	245	10.211	5.273	40.518	1.00143.39	C
ATOM	2007	C	ALA	A	245	9.002	5.165	41.443	1.00141.63	C
ATOM	2008	O	ALA	A	245	9.148	4.852	42.627	1.00140.25	O

ATOM	2009	CB	ALA	A	245	10.116	6.531	39.701	1.00	98.29	C
ATOM	2010	N	LEU	A	246	7.826	5.463	40.891	1.00	137.85	N
ATOM	2011	CA	LEU	A	246	6.541	5.352	41.585	1.00	136.97	C
ATOM	2012	C	LEU	A	246	6.502	4.173	42.581	1.00	134.71	C
ATOM	2013	O	LEU	A	246	6.106	4.338	43.756	1.00	134.57	O
ATOM	2014	CB	LEU	A	246	5.414	5.281	40.536	1.00	98.43	C
ATOM	2015	CG	LEU	A	246	3.896	5.357	40.797	1.00	98.62	C
ATOM	2016	CD1	LEU	A	246	3.535	6.004	42.118	1.00	97.90	C
ATOM	2017	CD2	LEU	A	246	3.148	6.043	39.638	1.00	101.63	C
ATOM	2018	N	ILE	A	247	6.945	3.000	42.128	1.00	147.29	N
ATOM	2019	CA	ILE	A	247	7.143	1.857	43.028	1.00	145.70	C
ATOM	2020	C	ILE	A	247	8.042	2.195	44.210	1.00	145.63	C
ATOM	2021	O	ILE	A	247	7.605	2.120	45.354	1.00	145.11	O
ATOM	2022	CB	ILE	A	247	7.770	0.643	42.324	1.00	153.30	C
ATOM	2023	CG1	ILE	A	247	6.754	-0.016	41.398	1.00	153.79	C
ATOM	2024	CG2	ILE	A	247	8.278	-0.361	43.354	1.00	152.28	C
ATOM	2025	CD1	ILE	A	247	5.502	-0.480	42.099	1.00	153.89	C
ATOM	2026	N	VAL	A	248	9.297	2.551	43.939	1.00	146.05	N
ATOM	2027	CA	VAL	A	248	10.246	2.849	45.016	1.00	146.82	C
ATOM	2028	C	VAL	A	248	9.762	3.931	46.011	1.00	147.83	C
ATOM	2029	O	VAL	A	248	9.907	3.748	47.230	1.00	148.22	O
ATOM	2030	CB	VAL	A	248	11.697	3.117	44.521	1.00	113.59	C
ATOM	2031	CG1	VAL	A	248	12.280	4.394	45.165	1.00	116.05	C
ATOM	2032	CG2	VAL	A	248	12.578	1.894	44.833	1.00	113.62	C
ATOM	2033	N	LEU	A	249	9.172	5.032	45.524	1.00	150.31	N
ATOM	2034	CA	LEU	A	249	8.603	6.035	46.451	1.00	151.78	C
ATOM	2035	C	LEU	A	249	7.477	5.411	47.279	1.00	151.30	C
ATOM	2036	O	LEU	A	249	7.551	5.349	48.523	1.00	152.34	O
ATOM	2037	CB	LEU	A	249	8.118	7.315	45.741	1.00	144.65	C
ATOM	2038	CG	LEU	A	249	8.992	7.970	44.654	1.00	145.90	C
ATOM	2039	CD1	LEU	A	249	8.360	9.281	44.177	1.00	148.39	C
ATOM	2040	CD2	LEU	A	249	10.469	8.180	45.060	1.00	146.69	C
ATOM	2041	N	LEU	A	250	6.452	4.923	46.581	1.00	132.72	N
ATOM	2042	CA	LEU	A	250	5.361	4.210	47.248	1.00	132.24	C
ATOM	2043	C	LEU	A	250	5.825	3.060	48.149	1.00	132.34	C
ATOM	2044	O	LEU	A	250	5.017	2.438	48.838	1.00	130.99	O
ATOM	2045	CB	LEU	A	250	4.344	3.705	46.219	1.00	129.57	C
ATOM	2046	CG	LEU	A	250	3.189	4.679	46.007	1.00	126.87	C
ATOM	2047	CD1	LEU	A	250	2.429	4.408	44.719	1.00	126.29	C
ATOM	2048	CD2	LEU	A	250	2.275	4.606	47.215	1.00	123.21	C
ATOM	2049	N	PHE	A	251	7.125	2.784	48.136	1.00	158.70	N
ATOM	2050	CA	PHE	A	251	7.701	1.737	48.971	1.00	159.01	C
ATOM	2051	C	PHE	A	251	8.312	2.352	50.211	1.00	160.95	C
ATOM	2052	O	PHE	A	251	7.841	2.133	51.331	1.00	162.87	O
ATOM	2053	CB	PHE	A	251	8.780	0.980	48.198	1.00	152.51	C
ATOM	2054	CG	PHE	A	251	9.535	-0.030	49.020	1.00	153.54	C
ATOM	2055	CD1	PHE	A	251	9.041	-1.318	49.184	1.00	153.43	C
ATOM	2056	CD2	PHE	A	251	10.752	0.302	49.610	1.00	155.27	C
ATOM	2057	CE1	PHE	A	251	9.740	-2.255	49.927	1.00	155.07	C
ATOM	2058	CE2	PHE	A	251	11.456	-0.631	50.361	1.00	156.92	C
ATOM	2059	CZ	PHE	A	251	10.947	-1.913	50.518	1.00	156.85	C
ATOM	2060	N	ALA	A	252	9.367	3.130	50.011	1.00	185.80	N
ATOM	2061	CA	ALA	A	252	9.979	3.830	51.124	1.00	188.14	C
ATOM	2062	C	ALA	A	252	8.894	4.489	51.990	1.00	190.19	C
ATOM	2063	O	ALA	A	252	8.879	4.288	53.213	1.00	192.63	O
ATOM	2064	CB	ALA	A	252	11.025	4.849	50.632	1.00	128.44	C
ATOM	2065	N	ILE	A	253	7.965	5.243	51.394	1.00	172.52	N
ATOM	2066	CA	ILE	A	253	6.971	5.892	52.263	1.00	169.66	C
ATOM	2067	C	ILE	A	253	6.322	4.848	53.182	1.00	168.13	C
ATOM	2068	O	ILE	A	253	6.108	5.130	54.349	1.00	167.86	O
ATOM	2069	CB	ILE	A	253	5.838	6.709	51.563	1.00	133.74	C

ATOM	2070	CG1	ILE	A	253	4.830	5.760	50.903	1.00130.55	C
ATOM	2071	CG2	ILE	A	253	6.396	7.843	50.662	1.00129.83	C
ATOM	2072	CD1	ILE	A	253	3.634	6.430	50.292	1.00130.06	C
ATOM	2073	N	PHE	A	254	6.018	3.650	52.676	1.00131.78	N
ATOM	2074	CA	PHE	A	254	5.351	2.623	53.492	1.00131.17	C
ATOM	2075	C	PHE	A	254	6.256	1.955	54.524	1.00135.41	C
ATOM	2076	O	PHE	A	254	5.804	1.609	55.606	1.00135.83	O
ATOM	2077	CB	PHE	A	254	4.677	1.554	52.633	1.00159.50	C
ATOM	2078	CG	PHE	A	254	3.841	0.582	53.428	1.00159.06	C
ATOM	2079	CD1	PHE	A	254	2.472	0.773	53.557	1.00156.09	C
ATOM	2080	CD2	PHE	A	254	4.423	-0.514	54.064	1.00162.40	C
ATOM	2081	CE1	PHE	A	254	1.690	-0.118	54.290	1.00156.61	C
ATOM	2082	CE2	PHE	A	254	3.645	-1.409	54.803	1.00162.84	C
ATOM	2083	CZ	PHE	A	254	2.277	-1.208	54.915	1.00160.05	C
ATOM	2084	N	ALA	A	255	7.529	1.768	54.193	1.00166.44	N
ATOM	2085	CA	ALA	A	255	8.453	1.168	55.157	1.00170.21	C
ATOM	2086	C	ALA	A	255	8.801	2.119	56.300	1.00173.54	C
ATOM	2087	O	ALA	A	255	8.906	1.702	57.456	1.00176.36	O
ATOM	2088	CB	ALA	A	255	9.694	0.663	54.477	1.00193.12	C
ATOM	2089	N	PHE	A	256	9.027	3.390	55.969	1.00216.51	N
ATOM	2090	CA	PHE	A	256	9.470	4.338	56.996	1.00219.62	C
ATOM	2091	C	PHE	A	256	8.381	5.248	57.561	1.00216.93	C
ATOM	2092	O	PHE	A	256	8.632	5.997	58.501	1.00220.27	O
ATOM	2093	CB	PHE	A	256	10.630	5.174	56.472	1.00186.51	C
ATOM	2094	CG	PHE	A	256	11.791	4.356	55.992	1.00184.76	C
ATOM	2095	CD1	PHE	A	256	11.959	4.079	54.639	1.00181.06	C
ATOM	2096	CD2	PHE	A	256	12.724	3.874	56.890	1.00187.46	C
ATOM	2097	CE1	PHE	A	256	13.037	3.333	54.195	1.00180.06	C
ATOM	2098	CE2	PHE	A	256	13.804	3.127	56.451	1.00186.43	C
ATOM	2099	CZ	PHE	A	256	13.961	2.856	55.105	1.00182.70	C
ATOM	2100	N	LYS	A	257	7.183	5.205	56.981	1.00168.15	N
ATOM	2101	CA	LYS	A	257	6.028	5.895	57.580	1.00165.86	C
ATOM	2102	C	LYS	A	257	5.232	4.955	58.452	1.00165.71	C
ATOM	2103	O	LYS	A	257	4.017	5.105	58.586	1.00163.67	O
ATOM	2104	CB	LYS	A	257	5.104	6.525	56.545	1.00161.35	C
ATOM	2105	CG	LYS	A	257	5.769	7.632	55.766	1.00161.63	C
ATOM	2106	CD	LYS	A	257	6.310	8.740	56.635	1.00162.16	C
ATOM	2107	CE	LYS	A	257	7.264	9.564	55.780	1.00162.68	C
ATOM	2108	NZ	LYS	A	257	7.492	10.950	56.290	1.00163.50	N1+
ATOM	2109	N	GLU	A	258	5.934	3.984	59.029	1.00288.64	N
ATOM	2110	CA	GLU	A	258	5.438	3.249	60.186	1.00290.85	C
ATOM	2111	C	GLU	A	258	4.085	2.567	59.900	1.00286.08	C
ATOM	2112	O	GLU	A	258	4.031	1.354	59.671	1.00283.87	O
ATOM	2113	CB	GLU	A	258	5.398	4.194	61.419	1.00205.21	C
ATOM	2114	CG	GLU	A	258	6.767	4.887	61.730	1.00208.79	C
ATOM	2115	CD	GLU	A	258	6.695	6.018	62.772	1.00216.24	C
ATOM	2116	OE1	GLU	A	258	5.647	6.163	63.436	1.00219.90	O
ATOM	2117	OE2	GLU	A	258	7.696	6.761	62.926	1.00218.88	O1-
ATOM	2118	N	GLU	A	259	3.004	3.348	59.893	1.00365.15	N
ATOM	2119	CA	GLU	A	259	1.653	2.800	59.730	1.00361.63	C
ATOM	2120	C	GLU	A	259	0.632	3.783	59.156	1.00358.30	C
ATOM	2121	O	GLU	A	259	-0.517	3.413	58.928	1.00358.08	O
ATOM	2122	CB	GLU	A	259	1.113	2.277	61.079	1.00251.22	C
ATOM	2123	CG	GLU	A	259	1.497	0.834	61.443	1.00254.41	C
ATOM	2124	CD	GLU	A	259	0.508	0.166	62.396	1.00259.39	C
ATOM	2125	OE1	GLU	A	259	-0.587	0.722	62.621	1.00260.73	O
ATOM	2126	OE2	GLU	A	259	0.827	-0.924	62.918	1.00262.54	O1-
ATOM	2127	N	LYS	A	260	1.041	5.020	58.906	1.00241.79	N
ATOM	2128	CA	LYS	A	260	0.062	6.097	58.736	1.00239.90	C
ATOM	2129	C	LYS	A	260	-0.430	6.373	57.303	1.00234.85	C
ATOM	2130	O	LYS	A	260	0.097	7.227	56.577	1.00231.70	O

ATOM	2131	CB	LYS	A	260	0.537	7.344	59.483	1.00182.75	C
ATOM	2132	CG	LYS	A	260	0.824	7.011	60.961	1.00184.57	C
ATOM	2133	CD	LYS	A	260	1.130	8.238	61.843	1.00186.05	C
ATOM	2134	CE	LYS	A	260	1.437	7.805	63.285	1.00188.21	C
ATOM	2135	NZ	LYS	A	260	1.776	8.902	64.232	1.00190.30	N1+
ATOM	2136	N	ILE	A	261	-1.470	5.615	56.945	1.00183.71	N
ATOM	2137	CA	ILE	A	261	-2.108	5.600	55.635	1.00179.77	C
ATOM	2138	C	ILE	A	261	-3.481	4.933	55.811	1.00178.83	C
ATOM	2139	O	ILE	A	261	-3.553	3.792	56.261	1.00180.49	O
ATOM	2140	CB	ILE	A	261	-1.270	4.776	54.614	1.00157.66	C
ATOM	2141	CG1	ILE	A	261	0.121	5.395	54.392	1.00159.39	C
ATOM	2142	CG2	ILE	A	261	-1.978	4.699	53.299	1.00154.38	C
ATOM	2143	CD1	ILE	A	261	0.793	5.040	53.055	1.00160.26	C
ATOM	2144	N	ASN	A	262	-4.565	5.634	55.479	1.00208.67	N
ATOM	2145	CA	ASN	A	262	-5.908	5.072	55.689	1.00208.37	C
ATOM	2146	C	ASN	A	262	-6.506	4.494	54.411	1.00207.11	C
ATOM	2147	O	ASN	A	262	-6.082	4.840	53.314	1.00205.65	O
ATOM	2148	CB	ASN	A	262	-6.853	6.070	56.414	1.00198.83	C
ATOM	2149	CG	ASN	A	262	-7.616	6.995	55.465	1.00199.91	C
ATOM	2150	ND2	ASN	A	262	-8.556	7.758	56.026	1.00200.45	N
ATOM	2151	OD1	ASN	A	262	-7.371	7.025	54.256	1.00200.86	O
ATOM	2152	N	PHE	A	263	-7.464	3.588	54.561	1.00191.55	N
ATOM	2153	CA	PHE	A	263	-8.003	2.857	53.424	1.00190.99	C
ATOM	2154	C	PHE	A	263	-8.423	3.775	52.290	1.00189.19	C
ATOM	2155	O	PHE	A	263	-8.032	3.553	51.177	1.00188.44	O
ATOM	2156	CB	PHE	A	263	-9.150	1.926	53.850	1.00247.43	C
ATOM	2157	CG	PHE	A	263	-8.765	0.954	54.935	1.00250.75	C
ATOM	2158	CD1	PHE	A	263	-8.995	1.270	56.276	1.00253.88	C
ATOM	2159	CD2	PHE	A	263	-8.163	-0.263	54.623	1.00251.46	C
ATOM	2160	CE1	PHE	A	263	-8.640	0.388	57.284	1.00257.70	C
ATOM	2161	CE2	PHE	A	263	-7.806	-1.149	55.621	1.00255.06	C
ATOM	2162	CZ	PHE	A	263	-8.043	-0.828	56.952	1.00258.22	C
ATOM	2163	N	TYR	A	264	-9.186	4.818	52.556	1.00546.27	N
ATOM	2164	CA	TYR	A	264	-9.661	5.608	51.436	1.00545.95	C
ATOM	2165	C	TYR	A	264	-8.541	6.043	50.490	1.00546.08	C
ATOM	2166	O	TYR	A	264	-8.748	6.021	49.280	1.00546.05	O
ATOM	2167	CB	TYR	A	264	-10.510	6.789	51.896	1.00202.82	C
ATOM	2168	CG	TYR	A	264	-11.662	6.402	52.807	1.00205.02	C
ATOM	2169	CD1	TYR	A	264	-11.459	6.229	54.173	1.00206.95	C
ATOM	2170	CD2	TYR	A	264	-12.954	6.223	52.308	1.00206.01	C
ATOM	2171	CE1	TYR	A	264	-12.497	5.889	55.010	1.00209.97	C
ATOM	2172	CE2	TYR	A	264	-14.000	5.882	53.146	1.00208.85	C
ATOM	2173	CZ	TYR	A	264	-13.760	5.716	54.493	1.00210.90	C
ATOM	2174	OH	TYR	A	264	-14.787	5.375	55.336	1.00214.65	O
ATOM	2175	N	MET	A	265	-7.360	6.386	51.019	1.00187.35	N
ATOM	2176	CA	MET	A	265	-6.271	6.910	50.166	1.00187.43	C
ATOM	2177	C	MET	A	265	-5.578	5.791	49.380	1.00187.18	C
ATOM	2178	O	MET	A	265	-5.025	5.987	48.293	1.00187.39	O
ATOM	2179	CB	MET	A	265	-5.248	7.699	50.973	1.00200.06	C
ATOM	2180	CG	MET	A	265	-4.514	6.868	51.976	1.00201.03	C
ATOM	2181	SD	MET	A	265	-3.548	7.876	53.095	1.00206.42	S
ATOM	2182	CE	MET	A	265	-4.845	8.495	54.161	1.00211.39	C
ATOM	2183	N	ILE	A	266	-5.657	4.601	49.942	1.00190.87	N
ATOM	2184	CA	ILE	A	266	-5.234	3.419	49.246	1.00191.04	C
ATOM	2185	C	ILE	A	266	-6.212	3.047	48.132	1.00190.40	C
ATOM	2186	O	ILE	A	266	-5.781	2.646	47.087	1.00190.88	O
ATOM	2187	CB	ILE	A	266	-5.113	2.277	50.216	1.00104.23	C
ATOM	2188	CG1	ILE	A	266	-3.980	2.542	51.197	1.00107.32	C
ATOM	2189	CG2	ILE	A	266	-4.809	0.991	49.498	1.00102.85	C
ATOM	2190	CD1	ILE	A	266	-4.001	1.528	52.378	1.00108.65	C
ATOM	2191	N	TRP	A	267	-7.514	3.179	48.353	1.00193.99	N

ATOM	2192	CA	TRP	A	267	-8.510	2.860	47.343	1.00193.89	C
ATOM	2193	C	TRP	A	267	-8.474	3.922	46.266	1.00194.71	C
ATOM	2194	O	TRP	A	267	-8.915	3.710	45.148	1.00196.10	O
ATOM	2195	CB	TRP	A	267	-9.905	2.838	47.938	1.00245.86	C
ATOM	2196	CG	TRP	A	267	-10.126	1.879	49.083	1.00246.53	C
ATOM	2197	CD1	TRP	A	267	-10.137	2.178	50.410	1.00247.25	C
ATOM	2198	CD2	TRP	A	267	-10.418	0.481	48.987	1.00247.43	C
ATOM	2199	CE2	TRP	A	267	-10.581	-0.003	50.301	1.00248.80	C
ATOM	2200	CE3	TRP	A	267	-10.549	-0.408	47.919	1.00247.77	C
ATOM	2201	NE1	TRP	A	267	-10.406	1.054	51.152	1.00248.77	N
ATOM	2202	CZ2	TRP	A	267	-10.867	-1.339	50.571	1.00250.49	C
ATOM	2203	CZ3	TRP	A	267	-10.832	-1.733	48.189	1.00249.17	C
ATOM	2204	CH2	TRP	A	267	-10.989	-2.185	49.503	1.00250.52	C
ATOM	2205	N	ALA	A	268	-7.991	5.096	46.636	1.00150.54	N
ATOM	2206	CA	ALA	A	268	-7.699	6.092	45.632	1.00151.86	C
ATOM	2207	C	ALA	A	268	-6.416	5.711	44.867	1.00153.22	C
ATOM	2208	O	ALA	A	268	-6.384	5.821	43.668	1.00155.04	O
ATOM	2209	CB	ALA	A	268	-7.592	7.500	46.252	1.00339.87	C
ATOM	2210	N	LEU	A	269	-5.383	5.190	45.525	1.00161.65	N
ATOM	2211	CA	LEU	A	269	-4.244	4.659	44.768	1.00163.42	C
ATOM	2212	C	LEU	A	269	-4.655	3.576	43.770	1.00164.48	C
ATOM	2213	O	LEU	A	269	-4.129	3.496	42.653	1.00167.09	O
ATOM	2214	CB	LEU	A	269	-3.155	4.112	45.687	1.00130.43	C
ATOM	2215	CG	LEU	A	269	-2.236	5.207	46.226	1.00131.61	C
ATOM	2216	CD1	LEU	A	269	-1.619	4.765	47.531	1.00132.49	C
ATOM	2217	CD2	LEU	A	269	-1.184	5.553	45.203	1.00134.03	C
ATOM	2218	N	ILE	A	270	-5.561	2.721	44.201	1.00144.50	N
ATOM	2219	CA	ILE	A	270	-6.117	1.685	43.399	1.00145.80	C
ATOM	2220	C	ILE	A	270	-6.902	2.288	42.232	1.00147.24	C
ATOM	2221	O	ILE	A	270	-6.638	1.991	41.072	1.00150.35	O
ATOM	2222	CB	ILE	A	270	-6.994	0.762	44.282	1.00126.75	C
ATOM	2223	CG1	ILE	A	270	-6.110	-0.191	45.132	1.00126.20	C
ATOM	2224	CG2	ILE	A	270	-7.966	-0.036	43.431	1.00129.21	C
ATOM	2225	CD1	ILE	A	270	-6.874	-1.391	45.692	1.00127.29	C
ATOM	2226	N	PHE	A	271	-7.842	3.170	42.508	1.00193.51	N
ATOM	2227	CA	PHE	A	271	-8.676	3.740	41.443	1.00195.23	C
ATOM	2228	C	PHE	A	271	-7.879	4.524	40.397	1.00197.50	C
ATOM	2229	O	PHE	A	271	-8.010	4.293	39.191	1.00200.33	O
ATOM	2230	CB	PHE	A	271	-9.793	4.611	42.044	1.00193.39	C
ATOM	2231	CG	PHE	A	271	-10.809	5.090	41.047	1.00195.50	C
ATOM	2232	CD1	PHE	A	271	-12.113	4.617	41.084	1.00196.31	C
ATOM	2233	CD2	PHE	A	271	-10.462	6.013	40.074	1.00197.43	C
ATOM	2234	CE1	PHE	A	271	-13.057	5.068	40.172	1.00198.85	C
ATOM	2235	CE2	PHE	A	271	-11.401	6.466	39.157	1.00200.07	C
ATOM	2236	CZ	PHE	A	271	-12.703	5.987	39.210	1.00200.73	C
ATOM	2237	N	ILE	A	272	-7.087	5.464	40.884	1.00184.76	N
ATOM	2238	CA	ILE	A	272	-6.047	6.172	40.157	1.00187.26	C
ATOM	2239	C	ILE	A	272	-5.228	5.259	39.270	1.00190.34	C
ATOM	2240	O	ILE	A	272	-5.166	5.432	38.038	1.00193.61	O
ATOM	2241	CB	ILE	A	272	-5.062	6.850	41.149	1.00113.97	C
ATOM	2242	CG1	ILE	A	272	-5.534	8.271	41.479	1.00113.02	C
ATOM	2243	CG2	ILE	A	272	-3.639	6.861	40.584	1.00116.76	C
ATOM	2244	CD1	ILE	A	272	-4.599	9.060	42.380	1.00112.68	C
ATOM	2245	N	SER	A	273	-4.587	4.283	39.897	1.00164.58	N
ATOM	2246	CA	SER	A	273	-3.730	3.386	39.155	1.00167.90	C
ATOM	2247	C	SER	A	273	-4.515	2.688	38.029	1.00169.65	C
ATOM	2248	O	SER	A	273	-4.084	2.645	36.877	1.00174.04	O
ATOM	2249	CB	SER	A	273	-3.031	2.411	40.100	1.00119.10	C
ATOM	2250	OG	SER	A	273	-3.160	1.113	39.603	1.00115.75	O
ATOM	2251	N	ILE	A	274	-5.694	2.179	38.337	1.00169.90	N
ATOM	2252	CA	ILE	A	274	-6.561	1.577	37.317	1.00172.07	C

ATOM	2253	C	ILE	A	274	-6.960	2.578	36.208	1.00175.03	C
ATOM	2254	O	ILE	A	274	-7.308	2.205	35.065	1.00177.58	O
ATOM	2255	CB	ILE	A	274	-7.787	0.946	37.957	1.00145.16	C
ATOM	2256	CG1	ILE	A	274	-7.378	0.096	39.151	1.00143.34	C
ATOM	2257	CG2	ILE	A	274	-8.617	0.183	36.917	1.00147.78	C
ATOM	2258	CD1	ILE	A	274	-8.428	-0.885	39.564	1.00141.56	C
ATOM	2259	N	SER	A	275	-6.888	3.857	36.552	1.00169.27	N
ATOM	2260	CA	SER	A	275	-7.065	4.899	35.560	1.00173.61	C
ATOM	2261	C	SER	A	275	-5.842	4.946	34.661	1.00178.20	C
ATOM	2262	O	SER	A	275	-5.985	5.106	33.454	1.00183.96	O
ATOM	2263	CB	SER	A	275	-7.311	6.244	36.220	1.00192.31	C
ATOM	2264	OG	SER	A	275	-8.514	6.214	36.946	1.00190.15	O
ATOM	2265	N	ILE	A	276	-4.649	4.810	35.252	1.00142.57	N
ATOM	2266	CA	ILE	A	276	-3.416	4.606	34.456	1.00147.36	C
ATOM	2267	C	ILE	A	276	-3.626	3.448	33.459	1.00151.17	C
ATOM	2268	O	ILE	A	276	-3.540	3.625	32.219	1.00158.05	O
ATOM	2269	CB	ILE	A	276	-2.170	4.369	35.361	1.00110.04	C
ATOM	2270	CG1	ILE	A	276	-2.194	5.303	36.557	1.00105.49	C
ATOM	2271	CG2	ILE	A	276	-0.875	4.504	34.594	1.00115.98	C
ATOM	2272	CD1	ILE	A	276	-0.874	5.383	37.303	1.00104.00	C
ATOM	2273	N	LEU	A	277	-3.917	2.267	34.004	1.00145.97	N
ATOM	2274	CA	LEU	A	277	-4.420	1.190	33.143	1.00149.97	C
ATOM	2275	C	LEU	A	277	-5.304	1.721	32.003	1.00154.66	C
ATOM	2276	O	LEU	A	277	-4.946	1.529	30.848	1.00161.04	O
ATOM	2277	CB	LEU	A	277	-5.177	0.133	33.950	1.00112.57	C
ATOM	2278	CG	LEU	A	277	-4.604	-1.279	34.111	1.00113.30	C
ATOM	2279	CD1	LEU	A	277	-5.703	-2.345	34.248	1.00114.49	C
ATOM	2280	CD2	LEU	A	277	-3.709	-1.614	32.933	1.00118.87	C
ATOM	2281	N	HIS	A	278	-6.416	2.409	32.307	1.00182.05	N
ATOM	2282	CA	HIS	A	278	-7.357	2.854	31.248	1.00186.40	C
ATOM	2283	C	HIS	A	278	-6.754	3.737	30.159	1.00191.84	C
ATOM	2284	O	HIS	A	278	-6.982	3.512	28.974	1.00196.09	O
ATOM	2285	CB	HIS	A	278	-8.588	3.547	31.839	1.00191.54	C
ATOM	2286	CG	HIS	A	278	-9.799	3.449	30.974	1.00195.29	C
ATOM	2287	CD2	HIS	A	278	-10.262	4.245	29.980	1.00199.82	C
ATOM	2288	ND1	HIS	A	278	-10.684	2.396	31.062	1.00195.25	N
ATOM	2289	CE1	HIS	A	278	-11.649	2.559	30.179	1.00199.54	C
ATOM	2290	NE2	HIS	A	278	-11.417	3.675	29.508	1.00202.41	N
ATOM	2291	N	LEU	A	279	-6.012	4.755	30.578	1.00168.84	N
ATOM	2292	CA	LEU	A	279	-5.257	5.621	29.676	1.00174.55	C
ATOM	2293	C	LEU	A	279	-4.314	4.796	28.797	1.00180.49	C
ATOM	2294	O	LEU	A	279	-4.041	5.163	27.651	1.00184.38	O
ATOM	2295	CB	LEU	A	279	-4.475	6.650	30.505	1.00182.03	C
ATOM	2296	CG	LEU	A	279	-5.324	7.630	31.335	1.00176.44	C
ATOM	2297	CD1	LEU	A	279	-4.467	8.715	31.994	1.00175.10	C
ATOM	2298	CD2	LEU	A	279	-6.450	8.278	30.518	1.00178.52	C
ATOM	2299	N	SER	A	280	-3.813	3.676	29.327	1.00302.19	N
ATOM	2300	CA	SER	A	280	-2.890	2.850	28.522	1.00302.39	C
ATOM	2301	C	SER	A	280	-3.561	1.794	27.622	1.00306.20	C
ATOM	2302	O	SER	A	280	-3.263	1.687	26.437	1.00310.43	O
ATOM	2303	CB	SER	A	280	-1.819	2.212	29.415	1.00164.44	C
ATOM	2304	OG	SER	A	280	-0.958	3.204	29.940	1.00162.01	O
ATOM	2305	N	GLY	A	281	-4.469	1.023	28.200	1.00163.22	N
ATOM	2306	CA	GLY	A	281	-5.145	-0.056	27.504	1.00166.58	C
ATOM	2307	C	GLY	A	281	-5.208	-1.218	28.464	1.00162.51	C
ATOM	2308	O	GLY	A	281	-4.176	-1.649	28.977	1.00159.54	O
ATOM	2309	N	GLY	A	282	-6.411	-1.710	28.730	1.00130.45	N
ATOM	2310	CA	GLY	A	282	-6.591	-2.739	29.736	1.00126.52	C
ATOM	2311	C	GLY	A	282	-7.968	-3.371	29.687	1.00125.51	C
ATOM	2312	O	GLY	A	282	-8.888	-2.947	30.385	1.00121.64	O
TER	2313		GLY	A	282					

ATOM	2314	N	ALA	A	307	-14.527	-8.193	-0.017	1.00175.74	N
ATOM	2315	CA	ALA	A	307	-14.394	-8.729	1.337	1.00174.84	C
ATOM	2316	C	ALA	A	307	-13.117	-9.612	1.586	1.00163.71	C
ATOM	2317	O	ALA	A	307	-12.535	-9.567	2.674	1.00150.53	O
ATOM	2318	CB	ALA	A	307	-15.704	-9.440	1.748	1.00113.26	C
ATOM	2319	N	PHE	A	308	-12.688	-10.375	0.568	1.00187.16	N
ATOM	2320	CA	PHE	A	308	-11.426	-11.178	0.550	1.00177.79	C
ATOM	2321	C	PHE	A	308	-11.045	-12.059	1.765	1.00177.92	C
ATOM	2322	O	PHE	A	308	-10.471	-11.572	2.740	1.00159.69	O
ATOM	2323	CB	PHE	A	308	-10.219	-10.323	0.124	1.00137.61	C
ATOM	2324	CG	PHE	A	308	-10.059	-10.174	-1.380	1.00143.52	C
ATOM	2325	CD1	PHE	A	308	-11.096	-9.691	-2.162	1.00155.71	C
ATOM	2326	CD2	PHE	A	308	-8.861	-10.489	-1.998	1.00137.69	C
ATOM	2327	CE1	PHE	A	308	-10.948	-9.545	-3.533	1.00161.57	C
ATOM	2328	CE2	PHE	A	308	-8.709	-10.345	-3.353	1.00143.98	C
ATOM	2329	CZ	PHE	A	308	-9.757	-9.871	-4.128	1.00155.64	C
ATOM	2330	N	MET	A	309	-11.319	-13.365	1.642	1.00119.67	N
ATOM	2331	CA	MET	A	309	-11.128	-14.380	2.696	1.00119.95	C
ATOM	2332	C	MET	A	309	-10.104	-15.445	2.289	1.00120.03	C
ATOM	2333	O	MET	A	309	-10.145	-15.945	1.169	1.00140.09	O
ATOM	2334	CB	MET	A	309	-12.454	-15.105	2.991	1.00131.39	C
ATOM	2335	CG	MET	A	309	-13.750	-14.329	2.649	1.00138.38	C
ATOM	2336	SD	MET	A	309	-15.083	-15.298	1.887	1.00168.84	S
ATOM	2337	CE	MET	A	309	-15.306	-16.655	3.032	1.00156.15	C
ATOM	2338	N	TYR	A	310	-9.211	-15.815	3.205	1.00129.14	N
ATOM	2339	CA	TYR	A	310	-8.145	-16.786	2.920	1.00127.27	C
ATOM	2340	C	TYR	A	310	-8.216	-17.985	3.881	1.00134.24	C
ATOM	2341	O	TYR	A	310	-8.760	-17.861	4.967	1.00126.24	O
ATOM	2342	CB	TYR	A	310	-6.769	-16.113	3.024	1.00164.44	C
ATOM	2343	CG	TYR	A	310	-6.650	-14.785	2.291	1.00154.29	C
ATOM	2344	CD1	TYR	A	310	-7.116	-13.607	2.860	1.00138.43	C
ATOM	2345	CD2	TYR	A	310	-6.062	-14.706	1.035	1.00158.78	C
ATOM	2346	CE1	TYR	A	310	-7.015	-12.390	2.189	1.00132.38	C
ATOM	2347	CE2	TYR	A	310	-5.950	-13.494	0.367	1.00154.18	C
ATOM	2348	CZ	TYR	A	310	-6.427	-12.346	0.951	1.00143.70	C
ATOM	2349	OH	TYR	A	310	-6.318	-11.151	0.295	1.00141.27	O
ATOM	2350	N	PHE	A	311	-7.672	-19.134	3.481	1.00143.26	N
ATOM	2351	CA	PHE	A	311	-7.657	-20.360	4.301	1.00141.54	C
ATOM	2352	C	PHE	A	311	-7.080	-20.090	5.697	1.00111.27	C
ATOM	2353	O	PHE	A	311	-6.404	-19.097	5.893	1.00 94.87	O
ATOM	2354	CB	PHE	A	311	-6.831	-21.418	3.564	1.00121.05	C
ATOM	2355	CG	PHE	A	311	-6.846	-22.788	4.195	1.00113.65	C
ATOM	2356	CD1	PHE	A	311	-7.825	-23.699	3.882	1.00128.95	C
ATOM	2357	CD2	PHE	A	311	-5.839	-23.186	5.055	1.00 94.13	C
ATOM	2358	CE1	PHE	A	311	-7.816	-24.964	4.445	1.00124.20	C
ATOM	2359	CE2	PHE	A	311	-5.835	-24.452	5.617	1.00 90.22	C
ATOM	2360	CZ	PHE	A	311	-6.820	-25.334	5.314	1.00104.66	C
ATOM	2361	N	ASN	A	312	-7.317	-20.948	6.681	1.00135.60	N
ATOM	2362	CA	ASN	A	312	-6.910	-20.597	8.052	1.00109.71	C
ATOM	2363	C	ASN	A	312	-5.607	-21.245	8.537	1.00100.84	C
ATOM	2364	O	ASN	A	312	-5.510	-22.455	8.580	1.00105.05	O
ATOM	2365	CB	ASN	A	312	-8.048	-20.913	9.034	1.00144.47	C
ATOM	2366	CG	ASN	A	312	-7.798	-20.350	10.419	1.00121.46	C
ATOM	2367	ND2	ASN	A	312	-8.819	-20.385	11.264	1.00114.34	N
ATOM	2368	OD1	ASN	A	312	-6.695	-19.898	10.730	1.00112.03	O
ATOM	2369	N	VAL	A	313	-4.610	-20.462	8.936	1.00113.42	N
ATOM	2370	CA	VAL	A	313	-3.340	-21.068	9.372	1.00105.89	C
ATOM	2371	C	VAL	A	313	-3.399	-21.771	10.714	1.00 90.40	C
ATOM	2372	O	VAL	A	313	-2.353	-22.103	11.269	1.00 82.69	O
ATOM	2373	CB	VAL	A	313	-2.187	-20.042	9.520	1.00115.00	C
ATOM	2374	CG1	VAL	A	313	-0.949	-20.502	8.756	1.00111.77	C

ATOM	2375	CG2	VAL	A	313	-2.637	-18.664	9.095	1.00106.76	C
ATOM	2376	N	ASN	A	314	-4.587	-21.977	11.262	1.00123.80	N
ATOM	2377	CA	ASN	A	314	-4.652	-22.499	12.621	1.00110.32	C
ATOM	2378	C	ASN	A	314	-4.821	-24.020	12.708	1.00116.77	C
ATOM	2379	O	ASN	A	314	-4.246	-24.668	13.591	1.00109.60	O
ATOM	2380	CB	ASN	A	314	-5.690	-21.742	13.456	1.00139.52	C
ATOM	2381	CG	ASN	A	314	-5.211	-20.357	13.868	1.00129.81	C
ATOM	2382	ND2	ASN	A	314	-6.091	-19.369	13.762	1.00130.61	N
ATOM	2383	OD1	ASN	A	314	-4.063	-20.180	14.270	1.00122.88	O
ATOM	2384	N	GLU	A	315	-5.588	-24.596	11.788	1.00115.40	N
ATOM	2385	CA	GLU	A	315	-5.656	-26.050	11.697	1.00125.19	C
ATOM	2386	C	GLU	A	315	-4.414	-26.565	10.975	1.00132.69	C
ATOM	2387	O	GLU	A	315	-4.422	-27.637	10.362	1.00146.39	O
ATOM	2388	CB	GLU	A	315	-6.942	-26.515	10.996	1.00160.80	C
ATOM	2389	CG	GLU	A	315	-7.201	-25.902	9.629	1.00175.50	C
ATOM	2390	CD	GLU	A	315	-8.235	-24.796	9.678	1.00173.95	C
ATOM	2391	OE1	GLU	A	315	-8.801	-24.453	8.619	1.00190.25	O
ATOM	2392	OE2	GLU	A	315	-8.488	-24.269	10.780	1.00158.16	O1-
ATOM	2393	N	THR	A	316	-3.339	-25.787	11.064	1.00 73.77	N
ATOM	2394	CA	THR	A	316	-2.124	-26.064	10.313	1.00 81.39	C
ATOM	2395	C	THR	A	316	-0.876	-26.034	11.183	1.00 71.40	C
ATOM	2396	O	THR	A	316	0.114	-26.584	10.783	1.00 74.47	O
ATOM	2397	CB	THR	A	316	-1.989	-25.156	9.012	1.00 75.11	C
ATOM	2398	CG2	THR	A	316	-0.533	-24.776	8.692	1.00 73.66	C
ATOM	2399	OG1	THR	A	316	-2.542	-25.844	7.882	1.00 88.15	O
ATOM	2400	N	ILE	A	317	-0.914	-25.453	12.375	1.00103.51	N
ATOM	2401	CA	ILE	A	317	0.330	-25.297	13.147	1.00 92.03	C
ATOM	2402	C	ILE	A	317	0.639	-26.458	14.093	1.00 88.14	C
ATOM	2403	O	ILE	A	317	-0.193	-26.790	14.905	1.00 83.45	O
ATOM	2404	CB	ILE	A	317	0.284	-24.015	13.970	1.00100.78	C
ATOM	2405	CG1	ILE	A	317	-0.050	-22.834	13.051	1.00103.29	C
ATOM	2406	CG2	ILE	A	317	1.585	-23.837	14.750	1.00 87.94	C
ATOM	2407	CD1	ILE	A	317	0.837	-21.629	13.247	1.00 81.93	C
ATOM	2408	N	MET	A	318	1.819	-27.068	14.020	1.00 90.07	N
ATOM	2409	CA	MET	A	318	2.045	-28.308	14.784	1.00 90.23	C
ATOM	2410	C	MET	A	318	1.844	-28.122	16.272	1.00 77.84	C
ATOM	2411	O	MET	A	318	1.162	-28.899	16.954	1.00 79.97	O
ATOM	2412	CB	MET	A	318	3.477	-28.799	14.630	1.00102.79	C
ATOM	2413	CG	MET	A	318	3.923	-29.188	13.259	1.00117.25	C
ATOM	2414	SD	MET	A	318	5.343	-30.244	13.528	1.00117.44	S
ATOM	2415	CE	MET	A	318	4.584	-31.577	14.447	1.00123.04	C
ATOM	2416	N	GLU	A	319	2.540	-27.095	16.740	1.00106.62	N
ATOM	2417	CA	GLU	A	319	2.642	-26.628	18.108	1.00100.52	C
ATOM	2418	C	GLU	A	319	1.276	-26.424	18.777	1.00100.19	C
ATOM	2419	O	GLU	A	319	1.157	-26.312	19.995	1.00 98.86	O
ATOM	2420	CB	GLU	A	319	3.407	-25.309	18.013	1.00144.15	C
ATOM	2421	CG	GLU	A	319	3.623	-24.551	19.265	1.00138.48	C
ATOM	2422	CD	GLU	A	319	4.165	-23.174	18.984	1.00122.40	C
ATOM	2423	OE1	GLU	A	319	3.535	-22.442	18.186	1.00119.67	O
ATOM	2424	OE2	GLU	A	319	5.218	-22.826	19.563	1.00113.84	O1-
ATOM	2425	N	VAL	A	320	0.233	-26.399	17.971	1.00111.50	N
ATOM	2426	CA	VAL	A	320	-1.072	-26.032	18.472	1.00111.28	C
ATOM	2427	C	VAL	A	320	-2.153	-27.069	18.060	1.00118.34	C
ATOM	2428	O	VAL	A	320	-3.362	-26.811	18.107	1.00120.25	O
ATOM	2429	CB	VAL	A	320	-1.368	-24.594	18.034	1.00 97.62	C
ATOM	2430	CG1	VAL	A	320	-2.301	-24.564	16.836	1.00100.48	C
ATOM	2431	CG2	VAL	A	320	-1.880	-23.791	19.199	1.00 93.00	C
ATOM	2432	N	ASN	A	321	-1.678	-28.255	17.676	1.00122.50	N
ATOM	2433	CA	ASN	A	321	-2.514	-29.418	17.404	1.00134.71	C
ATOM	2434	C	ASN	A	321	-3.162	-29.808	18.728	1.00134.51	C
ATOM	2435	O	ASN	A	321	-2.835	-29.217	19.750	1.00128.33	O

ATOM	2436	CB	ASN	A	321	-1.631	-30.557	16.866	1.00121.08	C
ATOM	2437	CG	ASN	A	321	-2.430	-31.662	16.197	1.00137.54	C
ATOM	2438	ND2	ASN	A	321	-1.806	-32.826	16.026	1.00147.61	N
ATOM	2439	OD1	ASN	A	321	-3.590	-31.473	15.834	1.00142.36	O
ATOM	2440	N	THR	A	322	-4.054	-30.797	18.730	1.00 89.32	N
ATOM	2441	CA	THR	A	322	-4.792	-31.160	19.947	1.00 92.64	C
ATOM	2442	C	THR	A	322	-4.260	-32.362	20.733	1.00100.46	C
ATOM	2443	O	THR	A	322	-3.166	-32.854	20.476	1.00 99.98	O
ATOM	2444	CB	THR	A	322	-6.232	-31.428	19.606	1.00115.49	C
ATOM	2445	CG2	THR	A	322	-7.137	-30.828	20.674	1.00114.81	C
ATOM	2446	OG1	THR	A	322	-6.501	-30.836	18.333	1.00114.96	O
ATOM	2447	N	ILE	A	323	-5.021	-32.836	21.712	1.00 93.21	N
ATOM	2448	CA	ILE	A	323	-4.586	-34.051	22.381	1.00103.51	C
ATOM	2449	C	ILE	A	323	-5.684	-35.031	22.856	1.00120.09	C
ATOM	2450	O	ILE	A	323	-6.845	-34.647	23.074	1.00122.73	O
ATOM	2451	CB	ILE	A	323	-3.640	-33.744	23.545	1.00129.86	C
ATOM	2452	CG1	ILE	A	323	-2.689	-32.615	23.198	1.00114.82	C
ATOM	2453	CG2	ILE	A	323	-2.797	-34.944	23.840	1.00138.85	C
ATOM	2454	CD1	ILE	A	323	-1.255	-32.951	23.521	1.00110.80	C
ATOM	2455	N	ASP	A	324	-5.290	-36.306	22.972	1.00150.31	N
ATOM	2456	CA	ASP	A	324	-6.059	-37.328	23.671	1.00169.03	C
ATOM	2457	C	ASP	A	324	-5.674	-37.177	25.114	1.00171.97	C
ATOM	2458	O	ASP	A	324	-4.500	-37.265	25.443	1.00168.54	O
ATOM	2459	CB	ASP	A	324	-5.651	-38.735	23.235	1.00300.27	C
ATOM	2460	CG	ASP	A	324	-5.555	-38.883	21.740	1.00301.52	C
ATOM	2461	OD1	ASP	A	324	-6.283	-38.176	21.016	1.00296.97	O
ATOM	2462	OD2	ASP	A	324	-4.745	-39.718	21.290	1.00309.35	O1-
ATOM	2463	N	PRO	A	325	-6.660	-36.970	25.987	1.00119.92	N
ATOM	2464	CA	PRO	A	325	-6.387	-36.689	27.406	1.00116.77	C
ATOM	2465	C	PRO	A	325	-5.289	-37.582	27.992	1.00120.96	C
ATOM	2466	O	PRO	A	325	-4.703	-37.205	29.001	1.00117.32	O
ATOM	2467	CB	PRO	A	325	-7.743	-36.942	28.096	1.00 75.12	C
ATOM	2468	CG	PRO	A	325	-8.599	-37.658	27.050	1.00 84.10	C
ATOM	2469	CD	PRO	A	325	-8.093	-37.185	25.720	1.00 77.92	C
ATOM	2470	N	GLU	A	326	-5.024	-38.733	27.371	1.00 97.86	N
ATOM	2471	CA	GLU	A	326	-3.907	-39.587	27.761	1.00102.23	C
ATOM	2472	C	GLU	A	326	-2.635	-38.766	27.751	1.00 90.63	C
ATOM	2473	O	GLU	A	326	-1.945	-38.630	28.760	1.00 89.03	O
ATOM	2474	CB	GLU	A	326	-3.753	-40.753	26.778	1.00156.62	C
ATOM	2475	CG	GLU	A	326	-4.522	-42.018	27.145	1.00172.43	C
ATOM	2476	CD	GLU	A	326	-3.608	-43.191	27.483	1.00182.71	C
ATOM	2477	OE1	GLU	A	326	-2.373	-43.054	27.337	1.00177.63	O
ATOM	2478	OE2	GLU	A	326	-4.126	-44.251	27.896	1.00194.01	O1-
ATOM	2479	N	VAL	A	327	-2.332	-38.214	26.586	1.00107.83	N
ATOM	2480	CA	VAL	A	327	-1.151	-37.394	26.421	1.00 97.45	C
ATOM	2481	C	VAL	A	327	-1.326	-36.073	27.139	1.00 87.06	C
ATOM	2482	O	VAL	A	327	-0.365	-35.409	27.445	1.00 79.61	O
ATOM	2483	CB	VAL	A	327	-0.845	-37.077	24.943	1.00 93.06	C
ATOM	2484	CG1	VAL	A	327	0.647	-37.118	24.703	1.00 89.64	C
ATOM	2485	CG2	VAL	A	327	-1.574	-38.023	24.001	1.00104.31	C
ATOM	2486	N	PHE	A	328	-2.550	-35.647	27.379	1.00112.53	N
ATOM	2487	CA	PHE	A	328	-2.694	-34.447	28.165	1.00104.37	C
ATOM	2488	C	PHE	A	328	-1.977	-34.760	29.481	1.00106.93	C
ATOM	2489	O	PHE	A	328	-0.902	-34.188	29.792	1.00100.28	O
ATOM	2490	CB	PHE	A	328	-4.167	-34.109	28.365	1.00101.03	C
ATOM	2491	CG	PHE	A	328	-4.387	-32.867	29.147	1.00 93.62	C
ATOM	2492	CD1	PHE	A	328	-3.963	-31.650	28.657	1.00 82.73	C
ATOM	2493	CD2	PHE	A	328	-4.999	-32.912	30.384	1.00 98.87	C
ATOM	2494	CE1	PHE	A	328	-4.153	-30.497	29.383	1.00 76.72	C
ATOM	2495	CE2	PHE	A	328	-5.194	-31.766	31.110	1.00 93.36	C
ATOM	2496	CZ	PHE	A	328	-4.766	-30.559	30.607	1.00 82.00	C

ATOM	2497	N	MET	A	329	-2.540	-35.711	30.225	1.00117.86	N
ATOM	2498	CA	MET	A	329	-1.944	-36.114	31.483	1.00117.35	C
ATOM	2499	C	MET	A	329	-0.462	-36.240	31.259	1.00110.75	C
ATOM	2500	O	MET	A	329	0.289	-35.525	31.887	1.00101.60	O
ATOM	2501	CB	MET	A	329	-2.493	-37.437	32.000	1.00 98.43	C
ATOM	2502	CG	MET	A	329	-3.799	-37.860	31.382	1.00110.31	C
ATOM	2503	SD	MET	A	329	-5.165	-37.888	32.541	1.00116.50	S
ATOM	2504	CE	MET	A	329	-4.420	-38.796	33.867	1.00113.23	C
ATOM	2505	N	GLN	A	330	-0.041	-37.115	30.343	1.00105.00	N
ATOM	2506	CA	GLN	A	330	1.399	-37.367	30.124	1.00100.71	C
ATOM	2507	C	GLN	A	330	2.222	-36.102	30.035	1.00 91.11	C
ATOM	2508	O	GLN	A	330	2.953	-35.786	30.949	1.00 83.36	O
ATOM	2509	CB	GLN	A	330	1.639	-38.195	28.874	1.00102.82	C
ATOM	2510	CG	GLN	A	330	1.398	-39.665	29.071	1.00107.85	C
ATOM	2511	CD	GLN	A	330	1.223	-40.363	27.761	1.00122.03	C
ATOM	2512	NE2	GLN	A	330	0.346	-41.363	27.730	1.00130.98	N
ATOM	2513	OE1	GLN	A	330	1.852	-39.994	26.772	1.00121.89	O
ATOM	2514	N	ARG	A	331	2.129	-35.408	28.912	1.00 96.97	N
ATOM	2515	CA	ARG	A	331	2.624	-34.042	28.765	1.00 85.89	C
ATOM	2516	C	ARG	A	331	2.702	-33.229	30.069	1.00 80.67	C
ATOM	2517	O	ARG	A	331	3.740	-32.620	30.373	1.00 74.67	O
ATOM	2518	CB	ARG	A	331	1.779	-33.284	27.740	1.00 79.84	C
ATOM	2519	CG	ARG	A	331	2.069	-33.638	26.303	1.00 80.73	C
ATOM	2520	CD	ARG	A	331	1.532	-32.566	25.398	1.00 74.64	C
ATOM	2521	NE	ARG	A	331	2.523	-31.959	24.493	1.00 70.42	N
ATOM	2522	CZ	ARG	A	331	3.005	-30.714	24.606	1.00 62.18	C
ATOM	2523	NH1	ARG	A	331	2.615	-29.962	25.618	1.00 57.08	N1+
ATOM	2524	NH2	ARG	A	331	3.869	-30.208	23.721	1.00 60.28	N
ATOM	2525	N	ILE	A	332	1.620	-33.193	30.844	1.00 98.83	N
ATOM	2526	CA	ILE	A	332	1.718	-32.419	32.088	1.00 92.37	C
ATOM	2527	C	ILE	A	332	2.581	-33.059	33.192	1.00 89.45	C
ATOM	2528	O	ILE	A	332	3.304	-32.352	33.891	1.00 81.35	O
ATOM	2529	CB	ILE	A	332	0.355	-32.013	32.616	1.00 76.35	C
ATOM	2530	CG1	ILE	A	332	-0.197	-30.896	31.746	1.00 73.85	C
ATOM	2531	CG2	ILE	A	332	0.453	-31.545	34.045	1.00 75.38	C
ATOM	2532	CD1	ILE	A	332	-1.696	-30.719	31.864	1.00 77.04	C
ATOM	2533	N	SER	A	333	2.529	-34.386	33.331	1.00110.48	N
ATOM	2534	CA	SER	A	333	3.283	-35.090	34.383	1.00105.53	C
ATOM	2535	C	SER	A	333	4.077	-36.371	33.987	1.00106.71	C
ATOM	2536	O	SER	A	333	4.834	-36.899	34.797	1.00102.25	O
ATOM	2537	CB	SER	A	333	2.404	-35.327	35.631	1.00103.88	C
ATOM	2538	OG	SER	A	333	1.032	-35.491	35.309	1.00111.23	O
ATOM	2539	N	SER	A	334	3.923	-36.852	32.755	1.00134.83	N
ATOM	2540	CA	SER	A	334	4.670	-38.016	32.267	1.00137.43	C
ATOM	2541	C	SER	A	334	4.229	-39.293	32.939	1.00141.35	C
ATOM	2542	O	SER	A	334	5.076	-40.066	33.376	1.00138.10	O
ATOM	2543	CB	SER	A	334	6.172	-37.865	32.536	1.00113.58	C
ATOM	2544	OG	SER	A	334	6.726	-36.756	31.864	1.00112.61	O
ATOM	2545	N	SER	A	335	2.921	-39.513	33.031	1.00116.55	N
ATOM	2546	CA	SER	A	335	2.394	-40.663	33.767	1.00121.58	C
ATOM	2547	C	SER	A	335	0.984	-40.446	34.318	1.00126.73	C
ATOM	2548	O	SER	A	335	0.819	-39.797	35.351	1.00121.53	O
ATOM	2549	CB	SER	A	335	3.321	-41.008	34.930	1.00201.79	C
ATOM	2550	OG	SER	A	335	2.873	-42.164	35.606	1.00206.69	O
ATOM	2551	N	VAL	A	336	-0.026	-41.009	33.655	1.00 97.09	N
ATOM	2552	CA	VAL	A	336	-1.418	-40.834	34.093	1.00104.32	C
ATOM	2553	C	VAL	A	336	-1.676	-41.061	35.596	1.00103.23	C
ATOM	2554	O	VAL	A	336	-2.364	-40.282	36.234	1.00104.41	O
ATOM	2555	CB	VAL	A	336	-2.391	-41.694	33.261	1.00 72.65	C
ATOM	2556	CG1	VAL	A	336	-3.763	-41.730	33.911	1.00 81.04	C
ATOM	2557	CG2	VAL	A	336	-2.485	-41.145	31.863	1.00 76.89	C

ATOM	2558	N	LEU	A	337	-1.124	-42.131	36.149	1.00	95.54	N
ATOM	2559	CA	LEU	A	337	-1.267	-42.438	37.570	1.00	96.04	C
ATOM	2560	C	LEU	A	337	-0.732	-41.267	38.386	1.00	86.28	C
ATOM	2561	O	LEU	A	337	-1.375	-40.801	39.340	1.00	88.86	O
ATOM	2562	CB	LEU	A	337	-0.540	-43.773	37.881	1.00	105.18	C
ATOM	2563	CG	LEU	A	337	-0.262	-44.417	39.251	1.00	108.63	C
ATOM	2564	CD1	LEU	A	337	1.251	-44.363	39.562	1.00	102.17	C
ATOM	2565	CD2	LEU	A	337	-1.115	-43.838	40.395	1.00	113.44	C
ATOM	2566	N	VAL	A	338	0.430	-40.770	37.972	1.00	121.98	N
ATOM	2567	CA	VAL	A	338	1.072	-39.633	38.618	1.00	112.87	C
ATOM	2568	C	VAL	A	338	0.249	-38.356	38.449	1.00	113.11	C
ATOM	2569	O	VAL	A	338	0.278	-37.485	39.297	1.00	110.05	O
ATOM	2570	CB	VAL	A	338	2.495	-39.417	38.073	1.00	103.18	C
ATOM	2571	CG1	VAL	A	338	3.196	-38.335	38.838	1.00	94.52	C
ATOM	2572	CG2	VAL	A	338	3.283	-40.675	38.195	1.00	104.67	C
ATOM	2573	N	PHE	A	339	-0.482	-38.251	37.347	1.00	100.43	N
ATOM	2574	CA	PHE	A	339	-1.354	-37.109	37.110	1.00	102.54	C
ATOM	2575	C	PHE	A	339	-2.513	-37.158	38.089	1.00	110.01	C
ATOM	2576	O	PHE	A	339	-2.877	-36.151	38.677	1.00	108.63	O
ATOM	2577	CB	PHE	A	339	-1.863	-37.153	35.670	1.00	102.69	C
ATOM	2578	CG	PHE	A	339	-2.704	-35.985	35.281	1.00	105.67	C
ATOM	2579	CD1	PHE	A	339	-2.126	-34.838	34.823	1.00	98.28	C
ATOM	2580	CD2	PHE	A	339	-4.075	-36.049	35.352	1.00	115.89	C
ATOM	2581	CE1	PHE	A	339	-2.897	-33.778	34.462	1.00	97.89	C
ATOM	2582	CE2	PHE	A	339	-4.850	-34.990	34.986	1.00	115.55	C
ATOM	2583	CZ	PHE	A	339	-4.265	-33.857	34.544	1.00	106.55	C
ATOM	2584	N	ILE	A	340	-3.086	-38.343	38.268	1.00	105.04	N
ATOM	2585	CA	ILE	A	340	-4.210	-38.512	39.179	1.00	114.56	C
ATOM	2586	C	ILE	A	340	-3.732	-38.322	40.603	1.00	111.23	C
ATOM	2587	O	ILE	A	340	-4.528	-37.987	41.478	1.00	117.87	O
ATOM	2588	CB	ILE	A	340	-4.886	-39.921	39.107	1.00	79.33	C
ATOM	2589	CG1	ILE	A	340	-4.449	-40.732	37.869	1.00	79.66	C
ATOM	2590	CG2	ILE	A	340	-6.397	-39.791	39.228	1.00	92.68	C
ATOM	2591	CD1	ILE	A	340	-5.507	-40.909	36.785	1.00	94.07	C
ATOM	2592	N	LEU	A	341	-2.443	-38.564	40.853	1.00	124.70	N
ATOM	2593	CA	LEU	A	341	-1.915	-38.372	42.213	1.00	122.51	C
ATOM	2594	C	LEU	A	341	-1.675	-36.892	42.492	1.00	114.97	C
ATOM	2595	O	LEU	A	341	-1.931	-36.372	43.590	1.00	117.40	O
ATOM	2596	CB	LEU	A	341	-0.623	-39.173	42.420	1.00	93.55	C
ATOM	2597	CG	LEU	A	341	-0.792	-40.684	42.642	1.00	102.36	C
ATOM	2598	CD1	LEU	A	341	0.485	-41.274	43.192	1.00	98.73	C
ATOM	2599	CD2	LEU	A	341	-1.962	-40.950	43.575	1.00	114.50	C
ATOM	2600	N	SER	A	342	-1.195	-36.229	41.450	1.00	117.42	N
ATOM	2601	CA	SER	A	342	-0.830	-34.826	41.461	1.00	109.95	C
ATOM	2602	C	SER	A	342	-2.061	-33.944	41.589	1.00	116.30	C
ATOM	2603	O	SER	A	342	-2.040	-32.998	42.350	1.00	114.72	O
ATOM	2604	CB	SER	A	342	-0.053	-34.470	40.186	1.00	107.74	C
ATOM	2605	OG	SER	A	342	1.241	-35.050	40.170	1.00	101.39	O
ATOM	2606	N	PHE	A	343	-3.125	-34.243	40.849	1.00	109.43	N
ATOM	2607	CA	PHE	A	343	-4.345	-33.444	40.938	1.00	116.56	C
ATOM	2608	C	PHE	A	343	-4.868	-33.407	42.377	1.00	123.42	C
ATOM	2609	O	PHE	A	343	-5.201	-32.340	42.932	1.00	124.68	O
ATOM	2610	CB	PHE	A	343	-5.405	-33.995	39.997	1.00	105.45	C
ATOM	2611	CG	PHE	A	343	-6.533	-33.050	39.746	1.00	112.23	C
ATOM	2612	CD1	PHE	A	343	-6.293	-31.780	39.262	1.00	104.58	C
ATOM	2613	CD2	PHE	A	343	-7.842	-33.430	39.975	1.00	125.43	C
ATOM	2614	CE1	PHE	A	343	-7.341	-30.903	39.020	1.00	107.57	C
ATOM	2615	CE2	PHE	A	343	-8.893	-32.556	39.732	1.00	128.52	C
ATOM	2616	CZ	PHE	A	343	-8.641	-31.297	39.255	1.00	119.52	C
ATOM	2617	N	ILE	A	344	-4.918	-34.592	42.976	1.00	106.23	N
ATOM	2618	CA	ILE	A	344	-5.310	-34.776	44.370	1.00	114.20	C

ATOM	2619	C	ILE	A	344	-4.387	-34.005	45.301	1.00106.88	C
ATOM	2620	O	ILE	A	344	-4.855	-33.245	46.143	1.00111.23	O
ATOM	2621	CB	ILE	A	344	-5.283	-36.281	44.765	1.00 95.72	C
ATOM	2622	CG1	ILE	A	344	-6.407	-37.049	44.061	1.00106.22	C
ATOM	2623	CG2	ILE	A	344	-5.365	-36.440	46.282	1.00103.41	C
ATOM	2624	CD1	ILE	A	344	-6.182	-38.519	43.999	1.00109.60	C
ATOM	2625	N	GLY	A	345	-3.079	-34.209	45.146	1.00146.15	N
ATOM	2626	CA	GLY	A	345	-2.097	-33.502	45.952	1.00139.27	C
ATOM	2627	C	GLY	A	345	-2.283	-31.996	45.904	1.00135.87	C
ATOM	2628	O	GLY	A	345	-2.054	-31.285	46.889	1.00137.19	O
ATOM	2629	N	PHE	A	346	-2.709	-31.512	44.744	1.00115.18	N
ATOM	2630	CA	PHE	A	346	-2.958	-30.099	44.520	1.00112.99	C
ATOM	2631	C	PHE	A	346	-4.222	-29.651	45.237	1.00124.74	C
ATOM	2632	O	PHE	A	346	-4.249	-28.588	45.839	1.00125.67	O
ATOM	2633	CB	PHE	A	346	-3.077	-29.789	43.030	1.00 98.64	C
ATOM	2634	CG	PHE	A	346	-3.538	-28.396	42.757	1.00 98.12	C
ATOM	2635	CD1	PHE	A	346	-2.651	-27.338	42.795	1.00 89.67	C
ATOM	2636	CD2	PHE	A	346	-4.869	-28.134	42.499	1.00107.14	C
ATOM	2637	CE1	PHE	A	346	-3.083	-26.048	42.566	1.00 89.91	C
ATOM	2638	CE2	PHE	A	346	-5.305	-26.834	42.262	1.00107.47	C
ATOM	2639	CZ	PHE	A	346	-4.410	-25.795	42.299	1.00 98.76	C
ATOM	2640	N	ILE	A	347	-5.272	-30.464	45.147	1.00 73.68	N
ATOM	2641	CA	ILE	A	347	-6.518	-30.228	45.894	1.00 87.13	C
ATOM	2642	C	ILE	A	347	-6.334	-30.149	47.406	1.00 92.94	C
ATOM	2643	O	ILE	A	347	-6.794	-29.220	48.051	1.00100.18	O
ATOM	2644	CB	ILE	A	347	-7.537	-31.338	45.634	1.00118.59	C
ATOM	2645	CG1	ILE	A	347	-8.163	-31.168	44.251	1.00119.64	C
ATOM	2646	CG2	ILE	A	347	-8.587	-31.319	46.718	1.00133.19	C
ATOM	2647	CD1	ILE	A	347	-8.663	-29.754	44.000	1.00124.15	C
ATOM	2648	N	LEU	A	348	-5.679	-31.148	47.972	1.00101.38	N
ATOM	2649	CA	LEU	A	348	-5.405	-31.127	49.393	1.00108.57	C
ATOM	2650	C	LEU	A	348	-4.515	-29.933	49.695	1.00100.75	C
ATOM	2651	O	LEU	A	348	-4.876	-29.093	50.511	1.00108.29	O
ATOM	2652	CB	LEU	A	348	-4.753	-32.433	49.851	1.00 89.63	C
ATOM	2653	CG	LEU	A	348	-5.378	-33.744	49.328	1.00 96.29	C
ATOM	2654	CD1	LEU	A	348	-4.519	-34.996	49.646	1.00 97.45	C
ATOM	2655	CD2	LEU	A	348	-6.830	-33.902	49.791	1.00112.12	C
ATOM	2656	N	LEU	A	349	-3.372	-29.831	49.025	1.00118.99	N
ATOM	2657	CA	LEU	A	349	-2.490	-28.672	49.214	1.00111.31	C
ATOM	2658	C	LEU	A	349	-3.242	-27.342	49.280	1.00114.76	C
ATOM	2659	O	LEU	A	349	-2.961	-26.505	50.137	1.00118.34	O
ATOM	2660	CB	LEU	A	349	-1.450	-28.596	48.099	1.00121.61	C
ATOM	2661	CG	LEU	A	349	-0.489	-27.416	48.246	1.00113.95	C
ATOM	2662	CD1	LEU	A	349	0.261	-27.533	49.556	1.00117.98	C
ATOM	2663	CD2	LEU	A	349	0.483	-27.350	47.083	1.00101.54	C
ATOM	2664	N	CYS	A	350	-4.180	-27.148	48.354	1.00 90.70	N
ATOM	2665	CA	CYS	A	350	-5.038	-25.966	48.323	1.00 95.71	C
ATOM	2666	C	CYS	A	350	-5.873	-25.938	49.561	1.00110.49	C
ATOM	2667	O	CYS	A	350	-5.564	-25.191	50.471	1.00112.58	O
ATOM	2668	CB	CYS	A	350	-5.942	-25.950	47.097	1.00132.41	C
ATOM	2669	SG	CYS	A	350	-5.160	-25.200	45.688	1.00118.08	S
ATOM	2670	N	LYS	A	351	-6.913	-26.771	49.609	1.00113.12	N
ATOM	2671	CA	LYS	A	351	-7.763	-26.842	50.809	1.00129.61	C
ATOM	2672	C	LYS	A	351	-6.979	-27.408	51.999	1.00133.83	C
ATOM	2673	O	LYS	A	351	-7.437	-28.312	52.701	1.00146.83	O
ATOM	2674	CB	LYS	A	351	-9.049	-27.640	50.556	1.00192.81	C
ATOM	2675	CG	LYS	A	351	-9.415	-27.833	49.079	1.00186.98	C
ATOM	2676	CD	LYS	A	351	-9.666	-26.532	48.318	1.00183.00	C
ATOM	2677	CE	LYS	A	351	-9.740	-26.815	46.818	1.00174.54	C
ATOM	2678	NZ	LYS	A	351	-9.995	-25.605	46.007	1.00175.39	N1+
ATOM	2679	N	ASP	A	352	-5.767	-26.872	52.152	1.00118.85	N

ATOM	2680	CA	ASP	A	352	-4.907	-27.016	53.314	1.00121.87	C
ATOM	2681	C	ASP	A	352	-4.045	-25.754	53.437	1.00112.96	C
ATOM	2682	O	ASP	A	352	-3.298	-25.611	54.394	1.00114.88	O
ATOM	2683	CB	ASP	A	352	-3.977	-28.218	53.162	1.00149.20	C
ATOM	2684	CG	ASP	A	352	-4.420	-29.412	53.975	1.00161.40	C
ATOM	2685	OD1	ASP	A	352	-5.639	-29.589	54.168	1.00173.67	O
ATOM	2686	OD2	ASP	A	352	-3.543	-30.182	54.413	1.00159.77	O1-
ATOM	2687	N	HIS	A	353	-4.131	-24.841	52.471	1.00209.35	N
ATOM	2688	CA	HIS	A	353	-3.244	-23.674	52.482	1.00201.47	C
ATOM	2689	C	HIS	A	353	-3.786	-22.366	51.894	1.00198.70	C
ATOM	2690	O	HIS	A	353	-3.379	-21.287	52.318	1.00197.91	O
ATOM	2691	CB	HIS	A	353	-1.903	-24.029	51.858	1.00126.85	C
ATOM	2692	CG	HIS	A	353	-1.015	-24.817	52.772	1.00129.75	C
ATOM	2693	CD2	HIS	A	353	-1.056	-26.116	53.152	1.00133.06	C
ATOM	2694	ND1	HIS	A	353	0.055	-24.257	53.432	1.00130.13	N
ATOM	2695	CE1	HIS	A	353	0.645	-25.183	54.172	1.00133.49	C
ATOM	2696	NE2	HIS	A	353	-0.009	-26.316	54.023	1.00135.21	N
ATOM	2697	N	LYS	A	354	-4.679	-22.462	50.915	1.00114.05	N
ATOM	2698	CA	LYS	A	354	-5.429	-21.298	50.423	1.00114.96	C
ATOM	2699	C	LYS	A	354	-4.613	-20.440	49.484	1.00101.42	C
ATOM	2700	O	LYS	A	354	-5.130	-19.967	48.494	1.00 98.25	O
ATOM	2701	CB	LYS	A	354	-5.947	-20.426	51.576	1.00135.67	C
ATOM	2702	CG	LYS	A	354	-6.766	-21.152	52.633	1.00151.08	C
ATOM	2703	CD	LYS	A	354	-6.832	-20.334	53.930	1.00162.08	C
ATOM	2704	CE	LYS	A	354	-7.446	-21.144	55.074	1.00177.32	C
ATOM	2705	NZ	LYS	A	354	-7.740	-20.315	56.278	1.00189.65	N1+
ATOM	2706	N	SER	A	355	-3.347	-20.227	49.818	1.00144.90	N
ATOM	2707	CA	SER	A	355	-2.452	-19.419	48.997	1.00132.54	C
ATOM	2708	C	SER	A	355	-2.144	-20.131	47.693	1.00122.93	C
ATOM	2709	O	SER	A	355	-1.978	-19.508	46.639	1.00115.97	O
ATOM	2710	CB	SER	A	355	-1.149	-19.188	49.745	1.00 93.85	C
ATOM	2711	OG	SER	A	355	-1.360	-19.388	51.126	1.00105.18	O
ATOM	2712	N	MET	A	356	-2.050	-21.452	47.788	1.00126.34	N
ATOM	2713	CA	MET	A	356	-1.803	-22.304	46.642	1.00119.25	C
ATOM	2714	C	MET	A	356	-2.959	-22.137	45.675	1.00122.49	C
ATOM	2715	O	MET	A	356	-2.835	-22.400	44.491	1.00117.00	O
ATOM	2716	CB	MET	A	356	-1.664	-23.748	47.108	1.00136.92	C
ATOM	2717	CG	MET	A	356	-0.956	-24.650	46.138	1.00128.74	C
ATOM	2718	SD	MET	A	356	0.423	-23.887	45.260	1.00115.57	S
ATOM	2719	CE	MET	A	356	1.331	-23.144	46.603	1.00115.87	C
ATOM	2720	N	LEU	A	357	-4.082	-21.673	46.202	1.00106.80	N
ATOM	2721	CA	LEU	A	357	-5.246	-21.312	45.407	1.00112.14	C
ATOM	2722	C	LEU	A	357	-4.826	-20.252	44.390	1.00104.42	C
ATOM	2723	O	LEU	A	357	-5.324	-20.189	43.262	1.00103.17	O
ATOM	2724	CB	LEU	A	357	-6.319	-20.760	46.347	1.00 74.02	C
ATOM	2725	CG	LEU	A	357	-7.793	-20.976	46.079	1.00 84.79	C
ATOM	2726	CD1	LEU	A	357	-8.041	-22.437	45.784	1.00 89.96	C
ATOM	2727	CD2	LEU	A	357	-8.548	-20.528	47.293	1.00 95.56	C
ATOM	2728	N	LEU	A	358	-3.874	-19.431	44.797	1.00143.06	N
ATOM	2729	CA	LEU	A	358	-3.394	-18.370	43.947	1.00136.83	C
ATOM	2730	C	LEU	A	358	-2.688	-18.906	42.703	1.00128.42	C
ATOM	2731	O	LEU	A	358	-2.293	-18.128	41.846	1.00120.98	O
ATOM	2732	CB	LEU	A	358	-2.467	-17.454	44.736	1.00 79.64	C
ATOM	2733	CG	LEU	A	358	-3.109	-16.297	45.502	1.00 87.58	C
ATOM	2734	CD1	LEU	A	358	-2.059	-15.410	46.171	1.00 84.45	C
ATOM	2735	CD2	LEU	A	358	-3.976	-15.480	44.565	1.00 90.02	C
ATOM	2736	N	ALA	A	359	-2.526	-20.225	42.596	1.00117.46	N
ATOM	2737	CA	ALA	A	359	-1.943	-20.825	41.393	1.00110.57	C
ATOM	2738	C	ALA	A	359	-2.991	-21.071	40.329	1.00112.04	C
ATOM	2739	O	ALA	A	359	-2.661	-21.203	39.155	1.00107.22	O
ATOM	2740	CB	ALA	A	359	-1.250	-22.122	41.722	1.00 55.94	C

ATOM	2741	N	LEU	A	360	-4.255	-21.127	40.729	1.00100.35	N
ATOM	2742	CA	LEU	A	360	-5.298	-21.545	39.791	1.00102.23	C
ATOM	2743	C	LEU	A	360	-5.155	-21.092	38.323	1.00 91.77	C
ATOM	2744	O	LEU	A	360	-5.223	-21.940	37.436	1.00 90.97	O
ATOM	2745	CB	LEU	A	360	-6.714	-21.304	40.334	1.00 86.08	C
ATOM	2746	CG	LEU	A	360	-7.245	-22.410	41.259	1.00 97.27	C
ATOM	2747	CD1	LEU	A	360	-8.405	-21.892	42.096	1.00108.47	C
ATOM	2748	CD2	LEU	A	360	-7.632	-23.673	40.478	1.00 98.93	C
ATOM	2749	N	PRO	A	361	-4.936	-19.786	38.049	1.00109.37	N
ATOM	2750	CA	PRO	A	361	-4.771	-19.371	36.641	1.00 99.96	C
ATOM	2751	C	PRO	A	361	-3.810	-20.276	35.837	1.00 95.45	C
ATOM	2752	O	PRO	A	361	-4.186	-20.841	34.785	1.00 92.54	O
ATOM	2753	CB	PRO	A	361	-4.190	-17.965	36.766	1.00100.84	C
ATOM	2754	CG	PRO	A	361	-4.724	-17.462	38.041	1.00109.35	C
ATOM	2755	CD	PRO	A	361	-4.783	-18.647	38.968	1.00117.18	C
ATOM	2756	N	MET	A	362	-2.591	-20.437	36.354	1.00 91.41	N
ATOM	2757	CA	MET	A	362	-1.598	-21.284	35.712	1.00 88.29	C
ATOM	2758	C	MET	A	362	-2.046	-22.726	35.566	1.00 94.27	C
ATOM	2759	O	MET	A	362	-1.695	-23.378	34.596	1.00 92.67	O
ATOM	2760	CB	MET	A	362	-0.313	-21.262	36.490	1.00121.15	C
ATOM	2761	CG	MET	A	362	0.346	-19.943	36.517	1.00115.53	C
ATOM	2762	SD	MET	A	362	1.964	-20.289	37.179	1.00115.47	S
ATOM	2763	CE	MET	A	362	2.577	-21.432	35.949	1.00113.00	C
ATOM	2764	N	LEU	A	363	-2.794	-23.246	36.528	1.00 77.51	N
ATOM	2765	CA	LEU	A	363	-3.441	-24.521	36.298	1.00 84.28	C
ATOM	2766	C	LEU	A	363	-4.353	-24.401	35.072	1.00 83.43	C
ATOM	2767	O	LEU	A	363	-4.151	-25.090	34.062	1.00 82.17	O
ATOM	2768	CB	LEU	A	363	-4.241	-24.956	37.519	1.00 87.98	C
ATOM	2769	CG	LEU	A	363	-3.886	-26.280	38.209	1.00 91.72	C
ATOM	2770	CD1	LEU	A	363	-5.155	-27.035	38.601	1.00102.30	C
ATOM	2771	CD2	LEU	A	363	-3.003	-27.153	37.346	1.00 87.08	C
ATOM	2772	N	ALA	A	364	-5.321	-23.491	35.142	1.00 97.49	N
ATOM	2773	CA	ALA	A	364	-6.327	-23.364	34.097	1.00 94.39	C
ATOM	2774	C	ALA	A	364	-5.724	-23.288	32.684	1.00 85.52	C
ATOM	2775	O	ALA	A	364	-6.147	-24.034	31.782	1.00 87.12	O
ATOM	2776	CB	ALA	A	364	-7.210	-22.168	34.369	1.00 58.11	C
ATOM	2777	N	LEU	A	365	-4.737	-22.406	32.496	1.00 87.34	N
ATOM	2778	CA	LEU	A	365	-3.982	-22.333	31.242	1.00 80.83	C
ATOM	2779	C	LEU	A	365	-3.552	-23.711	30.676	1.00 84.14	C
ATOM	2780	O	LEU	A	365	-3.847	-24.039	29.512	1.00 84.01	O
ATOM	2781	CB	LEU	A	365	-2.771	-21.434	31.429	1.00 70.23	C
ATOM	2782	CG	LEU	A	365	-2.835	-20.170	30.591	1.00 64.27	C
ATOM	2783	CD1	LEU	A	365	-1.620	-19.285	30.808	1.00 59.42	C
ATOM	2784	CD2	LEU	A	365	-2.952	-20.587	29.149	1.00 65.04	C
ATOM	2785	N	GLY	A	366	-2.889	-24.524	31.505	1.00 67.04	N
ATOM	2786	CA	GLY	A	366	-2.543	-25.885	31.117	1.00 71.75	C
ATOM	2787	C	GLY	A	366	-3.745	-26.640	30.600	1.00 77.89	C
ATOM	2788	O	GLY	A	366	-3.724	-27.218	29.515	1.00 78.78	O
ATOM	2789	N	PHE	A	367	-4.823	-26.588	31.375	1.00 71.42	N
ATOM	2790	CA	PHE	A	367	-6.066	-27.240	30.998	1.00 78.25	C
ATOM	2791	C	PHE	A	367	-6.668	-26.615	29.751	1.00 74.00	C
ATOM	2792	O	PHE	A	367	-7.289	-27.317	28.941	1.00 78.79	O
ATOM	2793	CB	PHE	A	367	-7.051	-27.228	32.162	1.00101.89	C
ATOM	2794	CG	PHE	A	367	-6.720	-28.224	33.212	1.00110.77	C
ATOM	2795	CD1	PHE	A	367	-5.724	-27.961	34.139	1.00109.88	C
ATOM	2796	CD2	PHE	A	367	-7.370	-29.448	33.253	1.00121.37	C
ATOM	2797	CE1	PHE	A	367	-5.397	-28.890	35.105	1.00116.47	C
ATOM	2798	CE2	PHE	A	367	-7.051	-30.378	34.215	1.00130.87	C
ATOM	2799	CZ	PHE	A	367	-6.063	-30.099	35.147	1.00126.43	C
ATOM	2800	N	MET	A	368	-6.461	-25.303	29.579	1.00 99.95	N
ATOM	2801	CA	MET	A	368	-7.001	-24.636	28.406	1.00 97.12	C

ATOM	2802	C	MET	A	368	-6.453	-25.402	27.205	1.00	98.34	C
ATOM	2803	O	MET	A	368	-7.099	-25.509	26.162	1.00	101.82	O
ATOM	2804	CB	MET	A	368	-6.600	-23.162	28.374	1.00	156.82	C
ATOM	2805	CG	MET	A	368	-7.472	-22.333	27.455	1.00	156.31	C
ATOM	2806	SD	MET	A	368	-6.741	-20.775	26.914	1.00	148.84	S
ATOM	2807	CE	MET	A	368	-5.071	-21.281	26.509	1.00	144.89	C
ATOM	2808	N	ALA	A	369	-5.264	-25.975	27.388	1.00	101.72	N
ATOM	2809	CA	ALA	A	369	-4.633	-26.781	26.357	1.00	104.38	C
ATOM	2810	C	ALA	A	369	-5.658	-27.611	25.603	1.00	112.75	C
ATOM	2811	O	ALA	A	369	-5.743	-27.571	24.373	1.00	114.78	O
ATOM	2812	CB	ALA	A	369	-3.609	-27.688	26.986	1.00	57.03	C
ATOM	2813	N	LEU	A	370	-6.451	-28.348	26.364	1.00	96.79	N
ATOM	2814	CA	LEU	A	370	-7.365	-29.330	25.805	1.00	106.23	C
ATOM	2815	C	LEU	A	370	-8.276	-28.826	24.676	1.00	108.90	C
ATOM	2816	O	LEU	A	370	-8.794	-29.640	23.905	1.00	117.43	O
ATOM	2817	CB	LEU	A	370	-8.200	-29.973	26.917	1.00	76.60	C
ATOM	2818	CG	LEU	A	370	-7.478	-30.874	27.927	1.00	80.80	C
ATOM	2819	CD1	LEU	A	370	-8.226	-30.839	29.226	1.00	87.91	C
ATOM	2820	CD2	LEU	A	370	-7.310	-32.320	27.450	1.00	88.46	C
ATOM	2821	N	ARG	A	371	-8.478	-27.509	24.576	1.00	131.41	N
ATOM	2822	CA	ARG	A	371	-9.323	-26.943	23.509	1.00	134.77	C
ATOM	2823	C	ARG	A	371	-8.610	-25.804	22.795	1.00	128.27	C
ATOM	2824	O	ARG	A	371	-9.087	-25.264	21.795	1.00	131.74	O
ATOM	2825	CB	ARG	A	371	-10.682	-26.473	24.059	1.00	198.73	C
ATOM	2826	CG	ARG	A	371	-11.588	-25.813	23.024	1.00	205.14	C
ATOM	2827	CD	ARG	A	371	-13.045	-25.755	23.471	1.00	210.33	C
ATOM	2828	NE	ARG	A	371	-13.832	-26.885	22.967	1.00	221.24	N
ATOM	2829	CZ	ARG	A	371	-15.142	-26.843	22.712	1.00	229.21	C
ATOM	2830	NH1	ARG	A	371	-15.829	-25.723	22.905	1.00	227.57	N1+
ATOM	2831	NH2	ARG	A	371	-15.771	-27.922	22.256	1.00	239.74	N
ATOM	2832	N	ALA	A	372	-7.439	-25.467	23.314	1.00	114.42	N
ATOM	2833	CA	ALA	A	372	-6.744	-24.270	22.890	1.00	108.03	C
ATOM	2834	C	ALA	A	372	-5.497	-24.639	22.125	1.00	108.61	C
ATOM	2835	O	ALA	A	372	-5.127	-23.995	21.139	1.00	110.18	O
ATOM	2836	CB	ALA	A	372	-6.372	-23.436	24.097	1.00	84.76	C
ATOM	2837	N	GLY	A	373	-4.839	-25.683	22.599	1.00	111.34	N
ATOM	2838	CA	GLY	A	373	-3.588	-26.072	22.008	1.00	112.99	C
ATOM	2839	C	GLY	A	373	-2.767	-27.013	22.849	1.00	110.62	C
ATOM	2840	O	GLY	A	373	-2.909	-27.132	24.059	1.00	106.91	O
ATOM	2841	N	LEU	A	374	-1.886	-27.688	22.147	1.00	102.39	N
ATOM	2842	CA	LEU	A	374	-0.950	-28.613	22.711	1.00	102.03	C
ATOM	2843	C	LEU	A	374	0.087	-27.885	23.545	1.00	93.47	C
ATOM	2844	O	LEU	A	374	0.553	-28.401	24.549	1.00	93.01	O
ATOM	2845	CB	LEU	A	374	-0.282	-29.289	21.535	1.00	86.88	C
ATOM	2846	CG	LEU	A	374	1.045	-29.962	21.713	1.00	92.56	C
ATOM	2847	CD1	LEU	A	374	0.742	-31.384	21.388	1.00	100.36	C
ATOM	2848	CD2	LEU	A	374	2.020	-29.375	20.730	1.00	89.13	C
ATOM	2849	N	ARG	A	375	0.433	-26.672	23.128	1.00	116.01	N
ATOM	2850	CA	ARG	A	375	1.575	-25.959	23.689	1.00	109.23	C
ATOM	2851	C	ARG	A	375	1.279	-25.305	25.023	1.00	103.80	C
ATOM	2852	O	ARG	A	375	2.139	-24.614	25.577	1.00	98.87	O
ATOM	2853	CB	ARG	A	375	2.069	-24.894	22.713	1.00	128.87	C
ATOM	2854	CG	ARG	A	375	1.732	-23.477	23.119	1.00	121.80	C
ATOM	2855	CD	ARG	A	375	1.428	-22.627	21.911	1.00	123.54	C
ATOM	2856	NE	ARG	A	375	0.681	-21.442	22.287	1.00	119.69	N
ATOM	2857	CZ	ARG	A	375	1.244	-20.314	22.694	1.00	115.07	C
ATOM	2858	NH1	ARG	A	375	2.570	-20.239	22.758	1.00	113.68	N1+
ATOM	2859	NH2	ARG	A	375	0.486	-19.270	23.041	1.00	112.61	N
ATOM	2860	N	PHE	A	376	0.069	-25.528	25.533	1.00	82.23	N
ATOM	2861	CA	PHE	A	376	-0.364	-24.935	26.801	1.00	79.16	C
ATOM	2862	C	PHE	A	376	-0.187	-25.814	28.049	1.00	82.94	C

ATOM	2863	O	PHE	A	376	-0.044	-25.299	29.152	1.00	81.17	O
ATOM	2864	CB	PHE	A	376	-1.797	-24.422	26.690	1.00	91.91	C
ATOM	2865	CG	PHE	A	376	-1.939	-23.272	25.747	1.00	88.95	C
ATOM	2866	CD1	PHE	A	376	-2.610	-23.412	24.560	1.00	93.33	C
ATOM	2867	CD2	PHE	A	376	-1.372	-22.050	26.038	1.00	83.18	C
ATOM	2868	CE1	PHE	A	376	-2.737	-22.347	23.698	1.00	92.50	C
ATOM	2869	CE2	PHE	A	376	-1.485	-20.992	25.173	1.00	81.90	C
ATOM	2870	CZ	PHE	A	376	-2.168	-21.141	24.009	1.00	86.78	C
ATOM	2871	N	THR	A	377	-0.182	-27.128	27.866	1.00	96.80	N
ATOM	2872	CA	THR	A	377	0.033	-28.062	28.959	1.00	102.49	C
ATOM	2873	C	THR	A	377	1.177	-27.632	29.851	1.00	99.35	C
ATOM	2874	O	THR	A	377	1.133	-27.830	31.066	1.00	103.71	O
ATOM	2875	CB	THR	A	377	0.374	-29.429	28.418	1.00	95.16	C
ATOM	2876	CG2	THR	A	377	-0.858	-30.301	28.354	1.00	102.18	C
ATOM	2877	OG1	THR	A	377	0.879	-29.276	27.095	1.00	93.94	O
ATOM	2878	N	ILE	A	378	2.206	-27.060	29.234	1.00	89.89	N
ATOM	2879	CA	ILE	A	378	3.357	-26.465	29.935	1.00	86.38	C
ATOM	2880	C	ILE	A	378	2.981	-25.697	31.224	1.00	86.12	C
ATOM	2881	O	ILE	A	378	3.503	-25.978	32.320	1.00	89.03	O
ATOM	2882	CB	ILE	A	378	4.179	-25.560	28.957	1.00	82.11	C
ATOM	2883	CG1	ILE	A	378	5.442	-26.278	28.524	1.00	85.13	C
ATOM	2884	CG2	ILE	A	378	4.557	-24.222	29.588	1.00	77.01	C
ATOM	2885	CD1	ILE	A	378	6.511	-26.229	29.574	1.00	86.82	C
ATOM	2886	N	TYR	A	379	2.056	-24.751	31.077	1.00	101.64	N
ATOM	2887	CA	TYR	A	379	1.576	-23.924	32.178	1.00	102.12	C
ATOM	2888	C	TYR	A	379	1.164	-24.708	33.417	1.00	110.49	C
ATOM	2889	O	TYR	A	379	1.242	-24.209	34.534	1.00	110.87	O
ATOM	2890	CB	TYR	A	379	0.409	-23.084	31.696	1.00	109.19	C
ATOM	2891	CG	TYR	A	379	0.856	-21.980	30.805	1.00	101.72	C
ATOM	2892	CD1	TYR	A	379	0.213	-21.724	29.623	1.00	99.73	C
ATOM	2893	CD2	TYR	A	379	1.934	-21.191	31.148	1.00	98.11	C
ATOM	2894	CE1	TYR	A	379	0.627	-20.705	28.800	1.00	94.86	C
ATOM	2895	CE2	TYR	A	379	2.354	-20.158	30.342	1.00	92.60	C
ATOM	2896	CZ	TYR	A	379	1.697	-19.920	29.164	1.00	91.20	C
ATOM	2897	OH	TYR	A	379	2.095	-18.897	28.327	1.00	87.55	O
ATOM	2898	N	ALA	A	380	0.723	-25.941	33.230	1.00	103.63	N
ATOM	2899	CA	ALA	A	380	0.197	-26.668	34.362	1.00	110.75	C
ATOM	2900	C	ALA	A	380	1.200	-27.649	34.943	1.00	111.60	C
ATOM	2901	O	ALA	A	380	0.871	-28.361	35.876	1.00	114.84	O
ATOM	2902	CB	ALA	A	380	-1.102	-27.356	33.991	1.00	74.29	C
ATOM	2903	N	VAL	A	381	2.422	-27.681	34.408	1.00	98.72	N
ATOM	2904	CA	VAL	A	381	3.462	-28.554	34.981	1.00	97.25	C
ATOM	2905	C	VAL	A	381	3.814	-28.183	36.424	1.00	91.79	C
ATOM	2906	O	VAL	A	381	3.442	-28.912	37.356	1.00	93.16	O
ATOM	2907	CB	VAL	A	381	4.780	-28.604	34.144	1.00	92.37	C
ATOM	2908	CG1	VAL	A	381	5.941	-29.044	35.009	1.00	86.11	C
ATOM	2909	CG2	VAL	A	381	4.645	-29.541	32.956	1.00	97.81	C
ATOM	2910	N	PRO	A	382	4.500	-27.030	36.620	1.00	106.48	N
ATOM	2911	CA	PRO	A	382	5.094	-26.692	37.923	1.00	101.42	C
ATOM	2912	C	PRO	A	382	4.086	-26.775	39.061	1.00	105.14	C
ATOM	2913	O	PRO	A	382	4.361	-27.454	40.051	1.00	104.48	O
ATOM	2914	CB	PRO	A	382	5.615	-25.264	37.727	1.00	100.16	C
ATOM	2915	CG	PRO	A	382	4.898	-24.739	36.551	1.00	104.33	C
ATOM	2916	CD	PRO	A	382	4.595	-25.907	35.671	1.00	108.77	C
ATOM	2917	N	VAL	A	383	2.928	-26.140	38.911	1.00	97.60	N
ATOM	2918	CA	VAL	A	383	1.870	-26.291	39.900	1.00	103.06	C
ATOM	2919	C	VAL	A	383	1.545	-27.763	40.188	1.00	107.57	C
ATOM	2920	O	VAL	A	383	1.662	-28.242	41.333	1.00	109.05	O
ATOM	2921	CB	VAL	A	383	0.611	-25.563	39.469	1.00	103.21	C
ATOM	2922	CG1	VAL	A	383	-0.575	-26.061	40.266	1.00	111.54	C
ATOM	2923	CG2	VAL	A	383	0.798	-24.087	39.672	1.00	100.27	C

ATOM	2924	N	MET	A	384	1.188	-28.500	39.143	1.00100.40	N
ATOM	2925	CA	MET	A	384	0.799	-29.881	39.337	1.00105.64	C
ATOM	2926	C	MET	A	384	1.965	-30.695	39.864	1.00100.96	C
ATOM	2927	O	MET	A	384	1.815	-31.864	40.163	1.00105.36	O
ATOM	2928	CB	MET	A	384	0.312	-30.468	38.028	1.00 90.90	C
ATOM	2929	CG	MET	A	384	-1.081	-30.090	37.659	1.00 98.89	C
ATOM	2930	SD	MET	A	384	-2.145	-31.447	38.083	1.00108.88	S
ATOM	2931	CE	MET	A	384	-3.062	-30.734	39.434	1.00114.86	C
ATOM	2932	N	ALA	A	385	3.140	-30.088	39.967	1.00 98.36	N
ATOM	2933	CA	ALA	A	385	4.255	-30.791	40.582	1.00 94.74	C
ATOM	2934	C	ALA	A	385	4.228	-30.598	42.105	1.00 96.47	C
ATOM	2935	O	ALA	A	385	4.325	-31.563	42.860	1.00100.02	O
ATOM	2936	CB	ALA	A	385	5.583	-30.355	39.969	1.00 67.86	C
ATOM	2937	N	LEU	A	386	4.047	-29.360	42.555	1.00 89.28	N
ATOM	2938	CA	LEU	A	386	3.955	-29.116	43.992	1.00 93.32	C
ATOM	2939	C	LEU	A	386	2.855	-30.018	44.520	1.00102.65	C
ATOM	2940	O	LEU	A	386	3.035	-30.702	45.529	1.00107.26	O
ATOM	2941	CB	LEU	A	386	3.625	-27.649	44.310	1.00103.55	C
ATOM	2942	CG	LEU	A	386	4.666	-26.565	44.022	1.00 96.51	C
ATOM	2943	CD1	LEU	A	386	4.075	-25.179	44.191	1.00 97.95	C
ATOM	2944	CD2	LEU	A	386	5.882	-26.739	44.911	1.00 95.65	C
ATOM	2945	N	GLY	A	387	1.720	-30.013	43.820	1.00113.25	N
ATOM	2946	CA	GLY	A	387	0.622	-30.907	44.120	1.00123.20	C
ATOM	2947	C	GLY	A	387	1.178	-32.278	44.414	1.00124.98	C
ATOM	2948	O	GLY	A	387	1.073	-32.774	45.540	1.00132.11	O
ATOM	2949	N	PHE	A	388	1.799	-32.881	43.404	1.00 97.65	N
ATOM	2950	CA	PHE	A	388	2.362	-34.200	43.591	1.00 99.25	C
ATOM	2951	C	PHE	A	388	3.169	-34.261	44.872	1.00 99.15	C
ATOM	2952	O	PHE	A	388	2.903	-35.118	45.712	1.00106.62	O
ATOM	2953	CB	PHE	A	388	3.205	-34.656	42.408	1.00 96.65	C
ATOM	2954	CG	PHE	A	388	3.803	-36.033	42.597	1.00 98.65	C
ATOM	2955	CD1	PHE	A	388	2.998	-37.162	42.584	1.00106.64	C
ATOM	2956	CD2	PHE	A	388	5.165	-36.204	42.802	1.00 93.99	C
ATOM	2957	CE1	PHE	A	388	3.535	-38.421	42.759	1.00109.13	C
ATOM	2958	CE2	PHE	A	388	5.704	-37.468	42.974	1.00 96.80	C
ATOM	2959	CZ	PHE	A	388	4.887	-38.573	42.949	1.00104.21	C
ATOM	2960	N	GLY	A	389	4.121	-33.348	45.037	1.00101.70	N
ATOM	2961	CA	GLY	A	389	4.922	-33.330	46.243	1.00103.09	C
ATOM	2962	C	GLY	A	389	4.076	-33.399	47.492	1.00113.09	C
ATOM	2963	O	GLY	A	389	4.266	-34.262	48.353	1.00118.89	O
ATOM	2964	N	TYR	A	390	3.111	-32.503	47.586	1.00 97.55	N
ATOM	2965	CA	TYR	A	390	2.279	-32.464	48.758	1.00108.69	C
ATOM	2966	C	TYR	A	390	1.700	-33.842	49.031	1.00118.30	C
ATOM	2967	O	TYR	A	390	1.732	-34.302	50.169	1.00128.03	O
ATOM	2968	CB	TYR	A	390	1.190	-31.393	48.612	1.00 83.94	C
ATOM	2969	CG	TYR	A	390	0.539	-31.065	49.936	1.00 96.11	C
ATOM	2970	CD1	TYR	A	390	1.292	-30.547	50.988	1.00 98.75	C
ATOM	2971	CD2	TYR	A	390	-0.817	-31.297	50.150	1.00106.55	C
ATOM	2972	CE1	TYR	A	390	0.715	-30.266	52.210	1.00111.76	C
ATOM	2973	CE2	TYR	A	390	-1.404	-31.004	51.371	1.00119.37	C
ATOM	2974	CZ	TYR	A	390	-0.629	-30.489	52.397	1.00122.09	C
ATOM	2975	OH	TYR	A	390	-1.194	-30.190	53.615	1.00135.51	O
ATOM	2976	N	PHE	A	391	1.209	-34.511	47.987	1.00 95.44	N
ATOM	2977	CA	PHE	A	391	0.551	-35.813	48.139	1.00105.32	C
ATOM	2978	C	PHE	A	391	1.415	-36.836	48.859	1.00108.94	C
ATOM	2979	O	PHE	A	391	0.910	-37.753	49.487	1.00120.58	O
ATOM	2980	CB	PHE	A	391	0.105	-36.372	46.789	1.00 98.96	C
ATOM	2981	CG	PHE	A	391	-0.448	-37.761	46.889	1.00108.46	C
ATOM	2982	CD1	PHE	A	391	-1.780	-37.963	47.200	1.00119.56	C
ATOM	2983	CD2	PHE	A	391	0.366	-38.866	46.723	1.00107.23	C
ATOM	2984	CE1	PHE	A	391	-2.288	-39.231	47.321	1.00129.25	C

ATOM	2985	CE2	PHE	A	391	-0.142	-40.130	46.844	1.00116.62	C
ATOM	2986	CZ	PHE	A	391	-1.468	-40.312	47.145	1.00127.63	C
ATOM	2987	N	LEU	A	392	2.731	-36.698	48.707	1.00 96.01	N
ATOM	2988	CA	LEU	A	392	3.631	-37.628	49.379	1.00 99.46	C
ATOM	2989	C	LEU	A	392	3.561	-37.301	50.861	1.00109.40	C
ATOM	2990	O	LEU	A	392	3.227	-38.172	51.663	1.00121.14	O
ATOM	2991	CB	LEU	A	392	5.049	-37.495	48.837	1.00121.08	C
ATOM	2992	CG	LEU	A	392	5.131	-37.568	47.314	1.00111.74	C
ATOM	2993	CD1	LEU	A	392	6.577	-37.697	46.827	1.00103.61	C
ATOM	2994	CD2	LEU	A	392	4.282	-38.698	46.744	1.00117.64	C
ATOM	2995	N	TYR	A	393	3.815	-36.033	51.209	1.00119.06	N
ATOM	2996	CA	TYR	A	393	3.628	-35.541	52.582	1.00130.15	C
ATOM	2997	C	TYR	A	393	2.281	-36.035	53.065	1.00144.19	C
ATOM	2998	O	TYR	A	393	2.201	-36.904	53.933	1.00157.12	O
ATOM	2999	CB	TYR	A	393	3.692	-34.004	52.641	1.00112.37	C
ATOM	3000	CG	TYR	A	393	3.201	-33.397	53.946	1.00125.80	C
ATOM	3001	CD1	TYR	A	393	3.820	-33.694	55.160	1.00133.99	C
ATOM	3002	CD2	TYR	A	393	2.125	-32.523	53.963	1.00130.39	C
ATOM	3003	CE1	TYR	A	393	3.366	-33.137	56.366	1.00144.94	C
ATOM	3004	CE2	TYR	A	393	1.666	-31.963	55.158	1.00141.11	C
ATOM	3005	CZ	TYR	A	393	2.290	-32.274	56.354	1.00148.44	C
ATOM	3006	OH	TYR	A	393	1.837	-31.720	57.531	1.00160.48	O
ATOM	3007	N	ALA	A	394	1.228	-35.478	52.476	1.00102.65	N
ATOM	3008	CA	ALA	A	394	-0.119	-36.008	52.611	1.00115.19	C
ATOM	3009	C	ALA	A	394	-0.084	-37.475	53.024	1.00124.99	C
ATOM	3010	O	ALA	A	394	-0.420	-37.816	54.165	1.00141.05	O
ATOM	3011	CB	ALA	A	394	-0.881	-35.847	51.282	1.00107.62	C
ATOM	3012	N	PHE	A	395	0.362	-38.326	52.099	1.00119.60	N
ATOM	3013	CA	PHE	A	395	0.340	-39.778	52.282	1.00127.72	C
ATOM	3014	C	PHE	A	395	1.146	-40.260	53.486	1.00136.71	C
ATOM	3015	O	PHE	A	395	0.660	-41.056	54.301	1.00151.88	O
ATOM	3016	CB	PHE	A	395	0.842	-40.482	51.019	1.00 95.65	C
ATOM	3017	CG	PHE	A	395	0.877	-41.999	51.134	1.00103.52	C
ATOM	3018	CD1	PHE	A	395	-0.248	-42.762	50.808	1.00110.73	C
ATOM	3019	CD2	PHE	A	395	2.028	-42.655	51.567	1.00104.72	C
ATOM	3020	CE1	PHE	A	395	-0.220	-44.114	50.909	1.00118.62	C
ATOM	3021	CE2	PHE	A	395	2.054	-44.010	51.672	1.00112.59	C
ATOM	3022	CZ	PHE	A	395	0.936	-44.742	51.341	1.00119.37	C
ATOM	3023	N	PHE	A	396	2.381	-39.780	53.589	1.00114.08	N
ATOM	3024	CA	PHE	A	396	3.247	-40.167	54.695	1.00123.19	C
ATOM	3025	C	PHE	A	396	2.649	-39.721	56.025	1.00139.33	C
ATOM	3026	O	PHE	A	396	3.132	-40.089	57.091	1.00151.90	O
ATOM	3027	CB	PHE	A	396	4.648	-39.596	54.499	1.00153.01	C
ATOM	3028	CG	PHE	A	396	5.539	-40.476	53.696	1.00143.64	C
ATOM	3029	CD1	PHE	A	396	5.062	-41.104	52.568	1.00134.68	C
ATOM	3030	CD2	PHE	A	396	6.849	-40.685	54.074	1.00145.23	C
ATOM	3031	CE1	PHE	A	396	5.876	-41.932	51.829	1.00127.43	C
ATOM	3032	CE2	PHE	A	396	7.670	-41.507	53.340	1.00137.64	C
ATOM	3033	CZ	PHE	A	396	7.186	-42.133	52.216	1.00128.70	C
ATOM	3034	N	ASN	A	397	1.595	-38.916	55.941	1.00143.78	N
ATOM	3035	CA	ASN	A	397	0.785	-38.600	57.099	1.00161.55	C
ATOM	3036	C	ASN	A	397	-0.102	-39.769	57.481	1.00176.58	C
ATOM	3037	O	ASN	A	397	-0.008	-40.274	58.597	1.00193.28	O
ATOM	3038	CB	ASN	A	397	-0.074	-37.377	56.839	1.00141.11	C
ATOM	3039	CG	ASN	A	397	0.286	-36.242	57.737	1.00138.39	C
ATOM	3040	ND2	ASN	A	397	-0.719	-35.638	58.357	1.00141.77	N
ATOM	3041	OD1	ASN	A	397	1.465	-35.925	57.905	1.00134.09	O
ATOM	3042	N	PHE	A	398	-0.957	-40.201	56.554	1.00128.91	N
ATOM	3043	CA	PHE	A	398	-1.866	-41.319	56.811	1.00142.80	C
ATOM	3044	C	PHE	A	398	-1.147	-42.325	57.670	1.00153.31	C
ATOM	3045	O	PHE	A	398	-1.706	-42.854	58.613	1.00171.91	O

ATOM	3046	CB	PHE	A	398	-2.275	-42.009	55.511	1.00120.71	C
ATOM	3047	CG	PHE	A	398	-3.740	-42.351	55.427	1.00133.95	C
ATOM	3048	CD1	PHE	A	398	-4.683	-41.630	56.142	1.00144.67	C
ATOM	3049	CD2	PHE	A	398	-4.172	-43.393	54.615	1.00136.26	C
ATOM	3050	CE1	PHE	A	398	-6.028	-41.944	56.045	1.00157.68	C
ATOM	3051	CE2	PHE	A	398	-5.510	-43.709	54.512	1.00149.21	C
ATOM	3052	CZ	PHE	A	398	-6.441	-42.985	55.227	1.00159.94	C
ATOM	3053	N	LEU	A	399	0.110	-42.577	57.339	1.00156.23	N
ATOM	3054	CA	LEU	A	399	0.906	-43.541	58.074	1.00165.69	C
ATOM	3055	C	LEU	A	399	1.209	-43.072	59.496	1.00181.13	C
ATOM	3056	O	LEU	A	399	0.688	-43.631	60.459	1.00201.49	O
ATOM	3057	CB	LEU	A	399	2.190	-43.842	57.316	1.00125.06	C
ATOM	3058	CG	LEU	A	399	1.997	-44.233	55.852	1.00111.53	C
ATOM	3059	CD1	LEU	A	399	3.112	-45.167	55.477	1.00104.75	C
ATOM	3060	CD2	LEU	A	399	0.652	-44.903	55.644	1.00123.52	C
ATOM	3061	N	GLU	A	400	2.041	-42.045	59.631	1.00180.92	N
ATOM	3062	CA	GLU	A	400	2.407	-41.537	60.954	1.00192.32	C
ATOM	3063	C	GLU	A	400	1.187	-41.195	61.809	1.00208.09	C
ATOM	3064	O	GLU	A	400	1.232	-41.321	63.029	1.00224.87	O
ATOM	3065	CB	GLU	A	400	3.335	-40.319	60.845	1.00261.38	C
ATOM	3066	CG	GLU	A	400	4.793	-40.659	60.549	1.00251.94	C
ATOM	3067	CD	GLU	A	400	5.667	-39.425	60.388	1.00237.94	C
ATOM	3068	OE1	GLU	A	400	5.130	-38.297	60.452	1.00236.16	O
ATOM	3069	OE2	GLU	A	400	6.892	-39.581	60.197	1.00229.79	O1-
ATOM	3070	N	LYS	A	401	0.097	-40.783	61.168	1.00132.06	N
ATOM	3071	CA	LYS	A	401	-1.083	-40.298	61.891	1.00146.39	C
ATOM	3072	C	LYS	A	401	-2.211	-41.322	62.033	1.00165.27	C
ATOM	3073	O	LYS	A	401	-3.094	-41.158	62.873	1.00183.09	O
ATOM	3074	CB	LYS	A	401	-1.626	-38.997	61.275	1.00183.00	C
ATOM	3075	CG	LYS	A	401	-2.310	-38.081	62.287	1.00195.52	C
ATOM	3076	CD	LYS	A	401	-3.081	-36.952	61.625	1.00186.44	C
ATOM	3077	CE	LYS	A	401	-3.795	-36.109	62.674	1.00201.75	C
ATOM	3078	NZ	LYS	A	401	-4.830	-35.222	62.078	1.00197.31	N1+
ATOM	3079	N	LYS	A	402	-2.192	-42.366	61.212	1.00176.32	N
ATOM	3080	CA	LYS	A	402	-3.088	-43.501	61.419	1.00191.98	C
ATOM	3081	C	LYS	A	402	-2.306	-44.564	62.183	1.00204.19	C
ATOM	3082	O	LYS	A	402	-2.482	-45.762	61.974	1.00209.15	O
ATOM	3083	CB	LYS	A	402	-3.592	-44.059	60.087	1.00133.14	C
ATOM	3084	CG	LYS	A	402	-4.999	-44.623	60.118	1.00148.63	C
ATOM	3085	CD	LYS	A	402	-6.012	-43.632	59.579	1.00153.39	C
ATOM	3086	CE	LYS	A	402	-7.375	-44.276	59.453	1.00169.31	C
ATOM	3087	NZ	LYS	A	402	-7.812	-44.855	60.754	1.00195.49	N1+
ATOM	3088	N	GLN	A	403	-1.433	-44.095	63.068	1.00161.29	N
ATOM	3089	CA	GLN	A	403	-0.550	-44.943	63.864	1.00174.04	C
ATOM	3090	C	GLN	A	403	0.143	-45.992	63.024	1.00164.44	C
ATOM	3091	O	GLN	A	403	-0.405	-47.052	62.754	1.00174.91	O
ATOM	3092	CB	GLN	A	403	-1.288	-45.573	65.052	1.00146.24	C
ATOM	3093	CG	GLN	A	403	-1.160	-44.780	66.356	1.00155.75	C
ATOM	3094	CD	GLN	A	403	-1.831	-45.465	67.534	1.00185.61	C
ATOM	3095	NE2	GLN	A	403	-2.640	-44.709	68.265	1.00196.10	N
ATOM	3096	OE1	GLN	A	403	-1.632	-46.658	67.782	1.00200.18	O
ATOM	3097	N	ILE	A	404	1.360	-45.677	62.610	1.00208.24	N
ATOM	3098	CA	ILE	A	404	2.156	-46.590	61.812	1.00196.99	C
ATOM	3099	C	ILE	A	404	3.633	-46.309	62.047	1.00190.83	C
ATOM	3100	O	ILE	A	404	4.262	-45.544	61.309	1.00172.15	O
ATOM	3101	CB	ILE	A	404	1.809	-46.486	60.309	1.00140.25	C
ATOM	3102	CG1	ILE	A	404	0.471	-47.167	60.026	1.00149.71	C
ATOM	3103	CG2	ILE	A	404	2.886	-47.123	59.454	1.00124.60	C
ATOM	3104	CD1	ILE	A	404	0.142	-47.281	58.552	1.00132.39	C
ATOM	3105	N	LYS	A	405	4.168	-46.913	63.105	1.00202.69	N
ATOM	3106	CA	LYS	A	405	5.588	-46.819	63.412	1.00201.43	C

ATOM	3107	C	LYS	A	405	6.391	-47.022	62.131	1.00178.81	C
ATOM	3108	O	LYS	A	405	6.408	-48.121	61.567	1.00177.44	O
ATOM	3109	CB	LYS	A	405	5.994	-47.870	64.457	1.00157.01	C
ATOM	3110	CG	LYS	A	405	5.325	-47.736	65.829	1.00177.80	C
ATOM	3111	CD	LYS	A	405	5.829	-48.814	66.791	1.00200.15	C
ATOM	3112	CE	LYS	A	405	5.360	-48.574	68.216	1.00220.11	C
ATOM	3113	NZ	LYS	A	405	6.142	-49.385	69.188	1.00238.45	N1+
ATOM	3114	N	LEU	A	406	7.033	-45.954	61.664	1.00175.87	N
ATOM	3115	CA	LEU	A	406	7.903	-46.024	60.497	1.00156.14	C
ATOM	3116	C	LEU	A	406	9.207	-45.308	60.817	1.00156.77	C
ATOM	3117	O	LEU	A	406	9.218	-44.095	60.998	1.00159.46	O
ATOM	3118	CB	LEU	A	406	7.231	-45.376	59.283	1.00133.51	C
ATOM	3119	CG	LEU	A	406	7.369	-46.034	57.904	1.00119.36	C
ATOM	3120	CD1	LEU	A	406	7.608	-44.965	56.860	1.00 98.69	C
ATOM	3121	CD2	LEU	A	406	8.481	-47.071	57.875	1.00119.90	C
ATOM	3122	N	SER	A	407	10.300	-46.061	60.897	1.00183.40	N
ATOM	3123	CA	SER	A	407	11.603	-45.494	61.227	1.00184.78	C
ATOM	3124	C	SER	A	407	12.075	-44.566	60.120	1.00162.28	C
ATOM	3125	O	SER	A	407	11.390	-44.407	59.111	1.00146.95	O
ATOM	3126	CB	SER	A	407	12.625	-46.604	61.447	1.00180.15	C
ATOM	3127	OG	SER	A	407	12.507	-47.592	60.441	1.00170.14	O
ATOM	3128	N	LEU	A	408	13.244	-43.961	60.300	1.00210.57	N
ATOM	3129	CA	LEU	A	408	13.730	-42.969	59.341	1.00191.31	C
ATOM	3130	C	LEU	A	408	14.421	-43.573	58.108	1.00176.57	C
ATOM	3131	O	LEU	A	408	14.272	-43.065	56.992	1.00158.76	O
ATOM	3132	CB	LEU	A	408	14.616	-41.932	60.035	1.00131.96	C
ATOM	3133	CG	LEU	A	408	13.856	-40.907	60.892	1.00141.79	C
ATOM	3134	CD1	LEU	A	408	14.382	-39.481	60.666	1.00140.65	C
ATOM	3135	CD2	LEU	A	408	12.350	-40.968	60.645	1.00134.14	C
ATOM	3136	N	ARG	A	409	15.170	-44.653	58.316	1.00162.42	N
ATOM	3137	CA	ARG	A	409	15.738	-45.418	57.213	1.00151.38	C
ATOM	3138	C	ARG	A	409	14.620	-45.762	56.245	1.00140.97	C
ATOM	3139	O	ARG	A	409	14.689	-45.448	55.061	1.00125.42	O
ATOM	3140	CB	ARG	A	409	16.416	-46.694	57.739	1.00190.92	C
ATOM	3141	CG	ARG	A	409	16.667	-47.777	56.700	1.00182.06	C
ATOM	3142	CD	ARG	A	409	17.701	-48.784	57.181	1.00196.42	C
ATOM	3143	NE	ARG	A	409	18.907	-48.749	56.353	1.00189.20	N
ATOM	3144	CZ	ARG	A	409	19.971	-49.528	56.531	1.00200.82	C
ATOM	3145	NH1	ARG	A	409	19.993	-50.412	57.520	1.00220.67	N1+
ATOM	3146	NH2	ARG	A	409	21.019	-49.420	55.719	1.00193.60	N
ATOM	3147	N	ASN	A	410	13.571	-46.378	56.770	1.00211.95	N
ATOM	3148	CA	ASN	A	410	12.457	-46.828	55.953	1.00205.19	C
ATOM	3149	C	ASN	A	410	11.705	-45.688	55.275	1.00190.82	C
ATOM	3150	O	ASN	A	410	11.392	-45.776	54.090	1.00178.64	O
ATOM	3151	CB	ASN	A	410	11.504	-47.680	56.789	1.00161.88	C
ATOM	3152	CG	ASN	A	410	12.226	-48.773	57.562	1.00178.27	C
ATOM	3153	ND2	ASN	A	410	11.618	-49.222	58.661	1.00196.92	N
ATOM	3154	OD1	ASN	A	410	13.319	-49.210	57.176	1.00175.26	O
ATOM	3155	N	LYS	A	411	11.414	-44.622	56.017	1.00164.96	N
ATOM	3156	CA	LYS	A	411	10.711	-43.485	55.425	1.00152.32	C
ATOM	3157	C	LYS	A	411	11.525	-42.879	54.291	1.00135.12	C
ATOM	3158	O	LYS	A	411	10.985	-42.520	53.249	1.00124.45	O
ATOM	3159	CB	LYS	A	411	10.386	-42.402	56.453	1.00116.89	C
ATOM	3160	CG	LYS	A	411	9.598	-41.218	55.844	1.00106.47	C
ATOM	3161	CD	LYS	A	411	9.733	-39.900	56.649	1.00112.19	C
ATOM	3162	CE	LYS	A	411	8.378	-39.313	57.057	1.00115.18	C
ATOM	3163	NZ	LYS	A	411	8.524	-38.181	58.006	1.00121.31	N1+
ATOM	3164	N	ASN	A	412	12.829	-42.768	54.493	1.00147.27	N
ATOM	3165	CA	ASN	A	412	13.678	-42.187	53.468	1.00132.83	C
ATOM	3166	C	ASN	A	412	13.847	-43.089	52.230	1.00124.77	C
ATOM	3167	O	ASN	A	412	13.776	-42.615	51.095	1.00111.75	O

ATOM	3168	CB	ASN	A	412	15.014	-41.731	54.067	1.00152.68	C
ATOM	3169	CG	ASN	A	412	14.871	-40.457	54.907	1.00156.39	C
ATOM	3170	ND2	ASN	A	412	15.980	-39.759	55.129	1.00159.31	N
ATOM	3171	OD1	ASN	A	412	13.775	-40.105	55.338	1.00157.41	O
ATOM	3172	N	ILE	A	413	14.045	-44.386	52.440	1.00145.90	N
ATOM	3173	CA	ILE	A	413	14.098	-45.313	51.315	1.00140.15	C
ATOM	3174	C	ILE	A	413	12.794	-45.222	50.532	1.00133.11	C
ATOM	3175	O	ILE	A	413	12.796	-45.121	49.307	1.00122.41	O
ATOM	3176	CB	ILE	A	413	14.278	-46.773	51.766	1.00116.65	C
ATOM	3177	CG1	ILE	A	413	15.394	-46.898	52.794	1.00127.48	C
ATOM	3178	CG2	ILE	A	413	14.574	-47.672	50.576	1.00110.99	C
ATOM	3179	CD1	ILE	A	413	15.329	-48.201	53.564	1.00143.15	C
ATOM	3180	N	LEU	A	414	11.677	-45.260	51.251	1.00144.72	N
ATOM	3181	CA	LEU	A	414	10.363	-45.174	50.624	1.00142.09	C
ATOM	3182	C	LEU	A	414	10.194	-43.877	49.824	1.00129.83	C
ATOM	3183	O	LEU	A	414	9.697	-43.892	48.707	1.00123.70	O
ATOM	3184	CB	LEU	A	414	9.238	-45.351	51.660	1.00105.28	C
ATOM	3185	CG	LEU	A	414	8.848	-46.797	51.955	1.00118.55	C
ATOM	3186	CD1	LEU	A	414	7.341	-46.986	51.866	1.00127.08	C
ATOM	3187	CD2	LEU	A	414	9.554	-47.678	50.957	1.00112.51	C
ATOM	3188	N	LEU	A	415	10.617	-42.755	50.383	1.00122.58	N
ATOM	3189	CA	LEU	A	415	10.544	-41.520	49.629	1.00111.49	C
ATOM	3190	C	LEU	A	415	11.379	-41.610	48.354	1.00101.72	C
ATOM	3191	O	LEU	A	415	10.889	-41.313	47.265	1.00 95.26	O
ATOM	3192	CB	LEU	A	415	10.981	-40.330	50.482	1.00102.56	C
ATOM	3193	CG	LEU	A	415	9.804	-39.559	51.083	1.00107.98	C
ATOM	3194	CD1	LEU	A	415	10.219	-38.679	52.265	1.00112.72	C
ATOM	3195	CD2	LEU	A	415	9.080	-38.758	49.995	1.00 99.74	C
ATOM	3196	N	ILE	A	416	12.637	-42.026	48.492	1.00139.06	N
ATOM	3197	CA	ILE	A	416	13.564	-42.062	47.363	1.00131.25	C
ATOM	3198	C	ILE	A	416	13.035	-42.949	46.251	1.00130.77	C
ATOM	3199	O	ILE	A	416	13.139	-42.620	45.070	1.00125.04	O
ATOM	3200	CB	ILE	A	416	14.962	-42.543	47.791	1.00118.97	C
ATOM	3201	CG1	ILE	A	416	15.658	-41.455	48.607	1.00120.48	C
ATOM	3202	CG2	ILE	A	416	15.800	-42.908	46.577	1.00112.16	C
ATOM	3203	CD1	ILE	A	416	16.951	-41.883	49.232	1.00125.88	C
ATOM	3204	N	LEU	A	417	12.446	-44.071	46.628	1.00117.92	N
ATOM	3205	CA	LEU	A	417	11.881	-44.956	45.633	1.00118.70	C
ATOM	3206	C	LEU	A	417	10.598	-44.391	45.018	1.00116.52	C
ATOM	3207	O	LEU	A	417	10.523	-44.265	43.817	1.00111.95	O
ATOM	3208	CB	LEU	A	417	11.716	-46.375	46.169	1.00103.13	C
ATOM	3209	CG	LEU	A	417	13.072	-47.082	46.309	1.00105.22	C
ATOM	3210	CD1	LEU	A	417	13.302	-47.544	47.734	1.00116.81	C
ATOM	3211	CD2	LEU	A	417	13.195	-48.249	45.333	1.00105.12	C
ATOM	3212	N	ILE	A	418	9.600	-44.024	45.814	1.00125.34	N
ATOM	3213	CA	ILE	A	418	8.436	-43.328	45.250	1.00123.10	C
ATOM	3214	C	ILE	A	418	8.900	-42.301	44.187	1.00112.56	C
ATOM	3215	O	ILE	A	418	8.383	-42.249	43.064	1.00109.87	O
ATOM	3216	CB	ILE	A	418	7.579	-42.644	46.359	1.00 90.14	C
ATOM	3217	CG1	ILE	A	418	6.450	-43.569	46.862	1.00103.11	C
ATOM	3218	CG2	ILE	A	418	6.999	-41.345	45.847	1.00 84.85	C
ATOM	3219	CD1	ILE	A	418	5.195	-43.677	45.941	1.00107.86	C
ATOM	3220	N	ALA	A	419	9.925	-41.532	44.537	1.00108.76	N
ATOM	3221	CA	ALA	A	419	10.464	-40.476	43.679	1.00 99.83	C
ATOM	3222	C	ALA	A	419	11.121	-40.942	42.361	1.00 96.86	C
ATOM	3223	O	ALA	A	419	10.716	-40.516	41.250	1.00 93.67	O
ATOM	3224	CB	ALA	A	419	11.437	-39.622	44.481	1.00 65.12	C
ATOM	3225	N	PHE	A	420	12.154	-41.777	42.475	1.00129.18	N
ATOM	3226	CA	PHE	A	420	12.817	-42.285	41.282	1.00127.90	C
ATOM	3227	C	PHE	A	420	11.777	-42.935	40.380	1.00131.73	C
ATOM	3228	O	PHE	A	420	11.758	-42.720	39.154	1.00131.29	O

ATOM	3229	CB	PHE	A	420	13.905	-43.305	41.617	1.00150.96	C
ATOM	3230	CG	PHE	A	420	14.411	-44.054	40.407	1.00151.43	C
ATOM	3231	CD1	PHE	A	420	15.412	-43.513	39.608	1.00147.44	C
ATOM	3232	CD2	PHE	A	420	13.867	-45.285	40.051	1.00157.09	C
ATOM	3233	CE1	PHE	A	420	15.871	-44.188	38.481	1.00149.55	C
ATOM	3234	CE2	PHE	A	420	14.323	-45.965	38.930	1.00158.88	C
ATOM	3235	CZ	PHE	A	420	15.325	-45.413	38.144	1.00155.33	C
ATOM	3236	N	PHE	A	421	10.914	-43.730	41.000	1.00103.43	N
ATOM	3237	CA	PHE	A	421	9.819	-44.366	40.309	1.00108.08	C
ATOM	3238	C	PHE	A	421	9.032	-43.334	39.509	1.00104.74	C
ATOM	3239	O	PHE	A	421	9.020	-43.407	38.285	1.00105.11	O
ATOM	3240	CB	PHE	A	421	8.909	-45.138	41.257	1.00223.01	C
ATOM	3241	CG	PHE	A	421	7.775	-45.819	40.558	1.00228.86	C
ATOM	3242	CD1	PHE	A	421	7.869	-47.151	40.188	1.00233.82	C
ATOM	3243	CD2	PHE	A	421	6.621	-45.111	40.238	1.00230.01	C
ATOM	3244	CE1	PHE	A	421	6.824	-47.772	39.531	1.00240.21	C
ATOM	3245	CE2	PHE	A	421	5.574	-45.723	39.580	1.00236.52	C
ATOM	3246	CZ	PHE	A	421	5.675	-47.058	39.225	1.00241.74	C
ATOM	3247	N	SER	A	422	8.416	-42.348	40.164	1.00125.99	N
ATOM	3248	CA	SER	A	422	7.597	-41.369	39.414	1.00123.60	C
ATOM	3249	C	SER	A	422	8.325	-40.450	38.385	1.00117.77	C
ATOM	3250	O	SER	A	422	7.706	-39.981	37.428	1.00119.14	O
ATOM	3251	CB	SER	A	422	6.719	-40.550	40.360	1.00106.85	C
ATOM	3252	OG	SER	A	422	7.514	-39.815	41.258	1.00103.17	O
ATOM	3253	N	ILE	A	423	9.623	-40.212	38.575	1.00 93.17	N
ATOM	3254	CA	ILE	A	423	10.454	-39.410	37.651	1.00 88.72	C
ATOM	3255	C	ILE	A	423	11.006	-40.147	36.379	1.00 92.27	C
ATOM	3256	O	ILE	A	423	11.170	-39.584	35.232	1.00 92.10	O
ATOM	3257	CB	ILE	A	423	11.619	-38.857	38.489	1.00101.70	C
ATOM	3258	CG1	ILE	A	423	11.108	-37.733	39.380	1.00 99.08	C
ATOM	3259	CG2	ILE	A	423	12.780	-38.391	37.631	1.00 97.84	C
ATOM	3260	CD1	ILE	A	423	12.082	-36.605	39.480	1.00 93.36	C
ATOM	3261	N	SER	A	424	11.308	-41.421	36.596	1.00100.12	N
ATOM	3262	CA	SER	A	424	11.862	-42.253	35.542	1.00104.79	C
ATOM	3263	C	SER	A	424	11.103	-42.219	34.205	1.00108.66	C
ATOM	3264	O	SER	A	424	11.713	-42.372	33.172	1.00109.80	O
ATOM	3265	CB	SER	A	424	11.976	-43.686	36.030	1.00 89.94	C
ATOM	3266	OG	SER	A	424	10.716	-44.119	36.472	1.00 93.80	O
ATOM	3267	N	PRO	A	425	9.773	-42.044	34.219	1.00106.96	N
ATOM	3268	CA	PRO	A	425	9.030	-41.954	32.956	1.00112.33	C
ATOM	3269	C	PRO	A	425	9.438	-40.753	32.137	1.00108.92	C
ATOM	3270	O	PRO	A	425	9.581	-40.817	30.914	1.00114.08	O
ATOM	3271	CB	PRO	A	425	7.604	-41.728	33.419	1.00 97.17	C
ATOM	3272	CG	PRO	A	425	7.552	-42.334	34.715	1.00 97.33	C
ATOM	3273	CD	PRO	A	425	8.863	-42.089	35.366	1.00 91.10	C
ATOM	3274	N	ALA	A	426	9.592	-39.636	32.824	1.00118.31	N
ATOM	3275	CA	ALA	A	426	10.089	-38.446	32.177	1.00114.87	C
ATOM	3276	C	ALA	A	426	11.529	-38.665	31.724	1.00114.35	C
ATOM	3277	O	ALA	A	426	11.893	-38.303	30.578	1.00117.25	O
ATOM	3278	CB	ALA	A	426	9.988	-37.298	33.092	1.00 54.65	C
ATOM	3279	N	LEU	A	427	12.353	-39.278	32.584	1.00 87.72	N
ATOM	3280	CA	LEU	A	427	13.694	-39.663	32.055	1.00 89.27	C
ATOM	3281	C	LEU	A	427	13.665	-40.424	30.686	1.00 99.11	C
ATOM	3282	O	LEU	A	427	14.330	-40.034	29.692	1.00102.44	O
ATOM	3283	CB	LEU	A	427	14.463	-40.505	33.062	1.00112.10	C
ATOM	3284	CG	LEU	A	427	14.874	-39.877	34.381	1.00104.26	C
ATOM	3285	CD1	LEU	A	427	15.368	-40.977	35.299	1.00105.56	C
ATOM	3286	CD2	LEU	A	427	15.929	-38.786	34.179	1.00 99.13	C
ATOM	3287	N	MET	A	428	12.900	-41.520	30.673	1.00 96.26	N
ATOM	3288	CA	MET	A	428	12.664	-42.390	29.525	1.00107.25	C
ATOM	3289	C	MET	A	428	12.264	-41.543	28.345	1.00112.20	C

ATOM	3290	O	MET	A	428	12.849	-41.646	27.272	1.00119.86	O
ATOM	3291	CB	MET	A	428	11.524	-43.369	29.830	1.00169.16	C
ATOM	3292	CG	MET	A	428	11.933	-44.828	29.998	1.00174.17	C
ATOM	3293	SD	MET	A	428	10.521	-45.959	30.207	1.00183.11	S
ATOM	3294	CE	MET	A	428	9.972	-45.626	31.887	1.00177.23	C
ATOM	3295	N	HIS	A	429	11.252	-40.704	28.546	1.00 94.96	N
ATOM	3296	CA	HIS	A	429	10.804	-39.827	27.478	1.00 99.98	C
ATOM	3297	C	HIS	A	429	11.938	-38.993	26.924	1.00 99.10	C
ATOM	3298	O	HIS	A	429	12.040	-38.813	25.713	1.00107.45	O
ATOM	3299	CB	HIS	A	429	9.698	-38.896	27.932	1.00105.98	C
ATOM	3300	CG	HIS	A	429	9.337	-37.881	26.898	1.00110.88	C
ATOM	3301	CD2	HIS	A	429	9.734	-36.599	26.731	1.00105.53	C
ATOM	3302	ND1	HIS	A	429	8.497	-38.165	25.844	1.00122.32	N
ATOM	3303	CE1	HIS	A	429	8.370	-37.090	25.085	1.00117.20	C
ATOM	3304	NE2	HIS	A	429	9.116	-36.130	25.598	1.00108.92	N
ATOM	3305	N	ILE	A	430	12.779	-38.467	27.814	1.00 93.53	N
ATOM	3306	CA	ILE	A	430	13.923	-37.683	27.343	1.00 92.96	C
ATOM	3307	C	ILE	A	430	14.882	-38.512	26.502	1.00101.57	C
ATOM	3308	O	ILE	A	430	15.458	-38.002	25.534	1.00107.61	O
ATOM	3309	CB	ILE	A	430	14.764	-37.101	28.473	1.00 95.24	C
ATOM	3310	CG1	ILE	A	430	13.964	-36.179	29.359	1.00 87.30	C
ATOM	3311	CG2	ILE	A	430	15.891	-36.264	27.911	1.00 96.04	C
ATOM	3312	CD1	ILE	A	430	14.869	-35.555	30.373	1.00 78.11	C
ATOM	3313	N	TYR	A	431	15.095	-39.769	26.900	1.00 89.19	N
ATOM	3314	CA	TYR	A	431	15.984	-40.651	26.121	1.00 98.43	C
ATOM	3315	C	TYR	A	431	15.406	-40.874	24.747	1.00112.01	C
ATOM	3316	O	TYR	A	431	16.119	-40.870	23.748	1.00121.85	O
ATOM	3317	CB	TYR	A	431	16.165	-42.005	26.811	1.00 90.27	C
ATOM	3318	CG	TYR	A	431	16.796	-43.085	25.953	1.00101.87	C
ATOM	3319	CD1	TYR	A	431	18.149	-43.387	26.049	1.00101.41	C
ATOM	3320	CD2	TYR	A	431	16.026	-43.827	25.062	1.00114.44	C
ATOM	3321	CE1	TYR	A	431	18.720	-44.394	25.264	1.00113.02	C
ATOM	3322	CE2	TYR	A	431	16.585	-44.825	24.268	1.00126.33	C
ATOM	3323	CZ	TYR	A	431	17.927	-45.104	24.374	1.00125.45	C
ATOM	3324	OH	TYR	A	431	18.457	-46.098	23.585	1.00138.13	O
ATOM	3325	N	TYR	A	432	14.096	-41.072	24.719	1.00 91.54	N
ATOM	3326	CA	TYR	A	432	13.403	-41.431	23.509	1.00103.15	C
ATOM	3327	C	TYR	A	432	13.135	-40.213	22.664	1.00101.79	C
ATOM	3328	O	TYR	A	432	12.762	-40.335	21.514	1.00105.36	O
ATOM	3329	CB	TYR	A	432	12.097	-42.161	23.837	1.00171.52	C
ATOM	3330	CG	TYR	A	432	12.269	-43.658	24.035	1.00177.29	C
ATOM	3331	CD1	TYR	A	432	11.396	-44.384	24.837	1.00174.34	C
ATOM	3332	CD2	TYR	A	432	13.305	-44.342	23.415	1.00185.56	C
ATOM	3333	CE1	TYR	A	432	11.556	-45.749	25.015	1.00179.02	C
ATOM	3334	CE2	TYR	A	432	13.473	-45.703	23.589	1.00191.44	C
ATOM	3335	CZ	TYR	A	432	12.597	-46.402	24.387	1.00187.32	C
ATOM	3336	OH	TYR	A	432	12.766	-47.756	24.555	1.00192.53	O
ATOM	3337	N	TYR	A	433	13.343	-39.031	23.229	1.00119.00	N
ATOM	3338	CA	TYR	A	433	13.019	-37.781	22.529	1.00112.37	C
ATOM	3339	C	TYR	A	433	14.227	-37.128	21.831	1.00113.20	C
ATOM	3340	O	TYR	A	433	14.860	-36.208	22.377	1.00107.75	O
ATOM	3341	CB	TYR	A	433	12.330	-36.802	23.491	1.00116.68	C
ATOM	3342	CG	TYR	A	433	11.723	-35.579	22.839	1.00110.39	C
ATOM	3343	CD1	TYR	A	433	10.372	-35.524	22.546	1.00111.81	C
ATOM	3344	CD2	TYR	A	433	12.503	-34.472	22.534	1.00103.12	C
ATOM	3345	CE1	TYR	A	433	9.819	-34.405	21.958	1.00106.37	C
ATOM	3346	CE2	TYR	A	433	11.954	-33.351	21.946	1.00 97.26	C
ATOM	3347	CZ	TYR	A	433	10.615	-33.322	21.661	1.00 98.98	C
ATOM	3348	OH	TYR	A	433	10.082	-32.200	21.079	1.00 94.32	O
ATOM	3349	N	LYS	A	434	14.513	-37.606	20.618	1.00109.61	N
ATOM	3350	CA	LYS	A	434	15.711	-37.224	19.871	1.00113.68	C

ATOM	3351	C	LYS	A	434	15.417	-36.372	18.649	1.00112.97	C
ATOM	3352	O	LYS	A	434	15.469	-36.878	17.534	1.00120.29	O
ATOM	3353	CB	LYS	A	434	16.446	-38.469	19.377	1.00108.63	C
ATOM	3354	CG	LYS	A	434	16.616	-39.555	20.397	1.00112.32	C
ATOM	3355	CD	LYS	A	434	17.360	-40.717	19.791	1.00121.07	C
ATOM	3356	CE	LYS	A	434	17.692	-41.780	20.819	1.00124.01	C
ATOM	3357	NZ	LYS	A	434	18.911	-41.389	21.577	1.00122.74	N1+
ATOM	3358	N	SER	A	435	15.137	-35.086	18.834	1.00118.24	N
ATOM	3359	CA	SER	A	435	14.859	-34.226	17.682	1.00118.10	C
ATOM	3360	C	SER	A	435	16.063	-34.144	16.772	1.00127.55	C
ATOM	3361	O	SER	A	435	17.192	-34.373	17.198	1.00132.47	O
ATOM	3362	CB	SER	A	435	14.474	-32.804	18.109	1.00100.73	C
ATOM	3363	OG	SER	A	435	14.128	-32.757	19.476	1.00 92.51	O
ATOM	3364	N	SER	A	436	15.817	-33.819	15.512	1.00113.74	N
ATOM	3365	CA	SER	A	436	16.895	-33.387	14.658	1.00122.88	C
ATOM	3366	C	SER	A	436	16.979	-31.881	14.836	1.00115.55	C
ATOM	3367	O	SER	A	436	16.556	-31.339	15.841	1.00102.55	O
ATOM	3368	CB	SER	A	436	16.652	-33.771	13.196	1.00167.88	C
ATOM	3369	OG	SER	A	436	15.744	-32.893	12.559	1.00162.67	O
ATOM	3370	N	THR	A	437	17.525	-31.198	13.857	1.00106.34	N
ATOM	3371	CA	THR	A	437	17.649	-29.772	13.945	1.00 99.65	C
ATOM	3372	C	THR	A	437	16.526	-29.197	13.126	1.00103.26	C
ATOM	3373	O	THR	A	437	15.941	-29.896	12.307	1.00115.80	O
ATOM	3374	CB	THR	A	437	18.954	-29.368	13.304	1.00106.36	C
ATOM	3375	CG2	THR	A	437	19.126	-27.857	13.335	1.00101.53	C
ATOM	3376	OG1	THR	A	437	20.034	-30.019	13.981	1.00104.28	O
ATOM	3377	N	VAL	A	438	16.209	-27.930	13.335	1.00 95.76	N
ATOM	3378	CA	VAL	A	438	15.336	-27.242	12.395	1.00101.26	C
ATOM	3379	C	VAL	A	438	15.755	-27.670	10.995	1.00120.74	C
ATOM	3380	O	VAL	A	438	14.942	-28.194	10.235	1.00127.99	O
ATOM	3381	CB	VAL	A	438	15.442	-25.702	12.543	1.00 72.46	C
ATOM	3382	CG1	VAL	A	438	14.581	-24.966	11.510	1.00 80.52	C
ATOM	3383	CG2	VAL	A	438	15.068	-25.304	13.949	1.00 56.98	C
ATOM	3384	N	PHE	A	439	17.038	-27.471	10.686	1.00 83.77	N
ATOM	3385	CA	PHE	A	439	17.610	-27.793	9.386	1.00103.87	C
ATOM	3386	C	PHE	A	439	18.820	-28.683	9.572	1.00108.72	C
ATOM	3387	O	PHE	A	439	19.337	-28.820	10.673	1.00 96.51	O
ATOM	3388	CB	PHE	A	439	18.093	-26.537	8.678	1.00 89.77	C
ATOM	3389	CG	PHE	A	439	17.027	-25.782	7.982	1.00 94.21	C
ATOM	3390	CD1	PHE	A	439	15.725	-26.174	8.068	1.00 84.39	C
ATOM	3391	CD2	PHE	A	439	17.332	-24.672	7.231	1.00108.13	C
ATOM	3392	CE1	PHE	A	439	14.735	-25.467	7.422	1.00 88.39	C
ATOM	3393	CE2	PHE	A	439	16.351	-23.967	6.581	1.00112.92	C
ATOM	3394	CZ	PHE	A	439	15.050	-24.365	6.679	1.00102.58	C
ATOM	3395	N	THR	A	440	19.289	-29.271	8.478	1.00 85.91	N
ATOM	3396	CA	THR	A	440	20.534	-30.011	8.487	1.00 98.28	C
ATOM	3397	C	THR	A	440	21.622	-29.101	7.964	1.00110.01	C
ATOM	3398	O	THR	A	440	21.350	-28.173	7.208	1.00111.18	O
ATOM	3399	CB	THR	A	440	20.460	-31.225	7.561	1.00101.39	C
ATOM	3400	CG2	THR	A	440	19.782	-32.394	8.262	1.00 89.49	C
ATOM	3401	OG1	THR	A	440	19.729	-30.872	6.376	1.00107.99	O
ATOM	3402	N	SER	A	441	22.857	-29.369	8.367	1.00116.96	N
ATOM	3403	CA	SER	A	441	24.004	-28.702	7.773	1.00115.60	C
ATOM	3404	C	SER	A	441	23.713	-28.364	6.326	1.00113.00	C
ATOM	3405	O	SER	A	441	23.612	-27.206	5.961	1.00107.54	O
ATOM	3406	CB	SER	A	441	25.227	-29.609	7.840	1.00 87.37	C
ATOM	3407	OG	SER	A	441	24.818	-30.939	8.089	1.00 93.46	O
ATOM	3408	N	TYR	A	442	23.559	-29.394	5.512	1.00116.27	N
ATOM	3409	CA	TYR	A	442	23.371	-29.223	4.085	1.00115.07	C
ATOM	3410	C	TYR	A	442	22.526	-27.988	3.760	1.00107.16	C
ATOM	3411	O	TYR	A	442	22.967	-27.105	3.011	1.00104.73	O

ATOM	3412	CB	TYR	A	442	22.755	-30.488	3.499	1.00120.75	C
ATOM	3413	CG	TYR	A	442	23.484	-31.762	3.877	1.00130.41	C
ATOM	3414	CD1	TYR	A	442	23.850	-32.013	5.185	1.00110.58	C
ATOM	3415	CD2	TYR	A	442	23.792	-32.724	2.928	1.00112.55	C
ATOM	3416	CE1	TYR	A	442	24.515	-33.179	5.542	1.00119.95	C
ATOM	3417	CE2	TYR	A	442	24.447	-33.901	3.279	1.00121.79	C
ATOM	3418	CZ	TYR	A	442	24.812	-34.124	4.593	1.00125.62	C
ATOM	3419	OH	TYR	A	442	25.468	-35.283	4.969	1.00135.79	O
ATOM	3420	N	GLU	A	443	21.331	-27.914	4.351	1.00123.91	N
ATOM	3421	CA	GLU	A	443	20.381	-26.821	4.092	1.00117.18	C
ATOM	3422	C	GLU	A	443	20.895	-25.449	4.564	1.00111.92	C
ATOM	3423	O	GLU	A	443	20.893	-24.446	3.819	1.00107.74	O
ATOM	3424	CB	GLU	A	443	19.024	-27.148	4.733	1.00111.88	C
ATOM	3425	CG	GLU	A	443	18.603	-28.617	4.607	1.00118.25	C
ATOM	3426	CD	GLU	A	443	17.096	-28.799	4.585	1.00118.81	C
ATOM	3427	OE1	GLU	A	443	16.445	-28.403	5.558	1.00116.32	O
ATOM	3428	OE2	GLU	A	443	16.550	-29.325	3.594	1.00121.14	O1-
ATOM	3429	N	ALA	A	444	21.346	-25.415	5.809	1.00122.53	N
ATOM	3430	CA	ALA	A	444	22.012	-24.240	6.330	1.00118.63	C
ATOM	3431	C	ALA	A	444	22.980	-23.739	5.282	1.00119.01	C
ATOM	3432	O	ALA	A	444	22.725	-22.727	4.644	1.00115.38	O
ATOM	3433	CB	ALA	A	444	22.751	-24.575	7.584	1.00 65.20	C
ATOM	3434	N	SER	A	445	24.075	-24.480	5.095	1.00127.66	N
ATOM	3435	CA	SER	A	445	25.178	-24.082	4.222	1.00128.81	C
ATOM	3436	C	SER	A	445	24.724	-23.720	2.816	1.00127.66	C
ATOM	3437	O	SER	A	445	25.318	-22.855	2.179	1.00127.32	O
ATOM	3438	CB	SER	A	445	26.274	-25.155	4.189	1.00152.70	C
ATOM	3439	OG	SER	A	445	25.741	-26.423	3.861	1.00157.70	O
ATOM	3440	N	ILE	A	446	23.680	-24.377	2.326	1.00123.83	N
ATOM	3441	CA	ILE	A	446	23.096	-23.949	1.062	1.00122.77	C
ATOM	3442	C	ILE	A	446	22.662	-22.487	1.218	1.00116.95	C
ATOM	3443	O	ILE	A	446	22.983	-21.624	0.372	1.00117.06	O
ATOM	3444	CB	ILE	A	446	21.921	-24.874	0.608	1.00 75.54	C
ATOM	3445	CG1	ILE	A	446	22.467	-26.187	0.034	1.00 91.83	C
ATOM	3446	CG2	ILE	A	446	21.044	-24.179	-0.433	1.00 83.25	C
ATOM	3447	CD1	ILE	A	446	21.492	-27.322	0.055	1.00 84.15	C
ATOM	3448	N	LEU	A	447	21.973	-22.199	2.324	1.00125.60	N
ATOM	3449	CA	LEU	A	447	21.503	-20.826	2.571	1.00120.21	C
ATOM	3450	C	LEU	A	447	22.617	-19.792	2.810	1.00119.44	C
ATOM	3451	O	LEU	A	447	22.585	-18.686	2.258	1.00117.71	O
ATOM	3452	CB	LEU	A	447	20.467	-20.813	3.694	1.00102.12	C
ATOM	3453	CG	LEU	A	447	19.181	-21.523	3.250	1.00102.48	C
ATOM	3454	CD1	LEU	A	447	18.419	-22.074	4.425	1.00101.03	C
ATOM	3455	CD2	LEU	A	447	18.292	-20.623	2.403	1.00100.59	C
ATOM	3456	N	ASN	A	448	23.598	-20.157	3.628	1.00110.23	N
ATOM	3457	CA	ASN	A	448	24.802	-19.358	3.829	1.00110.55	C
ATOM	3458	C	ASN	A	448	25.467	-19.006	2.501	1.00113.83	C
ATOM	3459	O	ASN	A	448	25.738	-17.841	2.215	1.00111.10	O
ATOM	3460	CB	ASN	A	448	25.794	-20.118	4.705	1.00127.34	C
ATOM	3461	CG	ASN	A	448	26.855	-19.224	5.277	1.00126.05	C
ATOM	3462	ND2	ASN	A	448	28.091	-19.711	5.282	1.00130.27	N
ATOM	3463	OD1	ASN	A	448	26.574	-18.098	5.707	1.00119.26	O
ATOM	3464	N	ASP	A	449	25.739	-20.028	1.699	1.00132.07	N
ATOM	3465	CA	ASP	A	449	26.177	-19.826	0.331	1.00135.90	C
ATOM	3466	C	ASP	A	449	25.258	-18.807	-0.350	1.00133.43	C
ATOM	3467	O	ASP	A	449	25.739	-17.911	-1.043	1.00134.26	O
ATOM	3468	CB	ASP	A	449	26.178	-21.156	-0.427	1.00193.50	C
ATOM	3469	CG	ASP	A	449	27.037	-21.119	-1.677	1.00200.41	C
ATOM	3470	OD1	ASP	A	449	27.290	-20.011	-2.192	1.00212.02	O
ATOM	3471	OD2	ASP	A	449	27.456	-22.199	-2.146	1.00215.74	O1-
ATOM	3472	N	LEU	A	450	23.941	-18.932	-0.144	1.00133.99	N

ATOM	3473	CA	LEU	A	450	22.983	-17.961	-0.717	1.00130.48	C
ATOM	3474	C	LEU	A	450	23.230	-16.518	-0.243	1.00125.18	C
ATOM	3475	O	LEU	A	450	22.928	-15.555	-0.957	1.00122.72	O
ATOM	3476	CB	LEU	A	450	21.520	-18.367	-0.445	1.00100.33	C
ATOM	3477	CG	LEU	A	450	20.416	-17.892	-1.416	1.00101.11	C
ATOM	3478	CD1	LEU	A	450	19.133	-17.503	-0.698	1.00 95.95	C
ATOM	3479	CD2	LEU	A	450	20.872	-16.747	-2.310	1.00105.21	C
ATOM	3480	N	LYS	A	451	23.770	-16.373	0.965	1.00136.76	N
ATOM	3481	CA	LYS	A	451	24.095	-15.048	1.500	1.00129.33	C
ATOM	3482	C	LYS	A	451	25.076	-14.282	0.604	1.00129.93	C
ATOM	3483	O	LYS	A	451	24.821	-13.138	0.234	1.00124.74	O
ATOM	3484	CB	LYS	A	451	24.665	-15.181	2.910	1.00112.43	C
ATOM	3485	CG	LYS	A	451	24.473	-13.958	3.769	1.00104.64	C
ATOM	3486	CD	LYS	A	451	24.933	-14.209	5.211	1.00103.39	C
ATOM	3487	CE	LYS	A	451	26.455	-14.073	5.375	1.00104.00	C
ATOM	3488	NZ	LYS	A	451	26.946	-14.267	6.781	1.00102.19	N1+
ATOM	3489	N	ASN	A	452	26.186	-14.927	0.248	1.00145.37	N
ATOM	3490	CA	ASN	A	452	27.248	-14.311	-0.554	1.00147.35	C
ATOM	3491	C	ASN	A	452	26.915	-14.151	-2.028	1.00150.15	C
ATOM	3492	O	ASN	A	452	27.765	-13.740	-2.809	1.00153.67	O
ATOM	3493	CB	ASN	A	452	28.525	-15.138	-0.453	1.00123.97	C
ATOM	3494	CG	ASN	A	452	28.747	-15.680	0.930	1.00122.11	C
ATOM	3495	ND2	ASN	A	452	29.137	-16.951	1.020	1.00127.59	N
ATOM	3496	OD1	ASN	A	452	28.556	-14.969	1.917	1.00115.90	O
ATOM	3497	N	LYS	A	453	25.695	-14.499	-2.412	1.00130.32	N
ATOM	3498	CA	LYS	A	453	25.260	-14.343	-3.792	1.00132.28	C
ATOM	3499	C	LYS	A	453	24.212	-13.253	-3.877	1.00124.11	C
ATOM	3500	O	LYS	A	453	23.996	-12.656	-4.931	1.00124.44	O
ATOM	3501	CB	LYS	A	453	24.635	-15.635	-4.312	1.00111.00	C
ATOM	3502	CG	LYS	A	453	25.545	-16.830	-4.364	1.00134.67	C
ATOM	3503	CD	LYS	A	453	24.885	-17.905	-5.193	1.00139.25	C
ATOM	3504	CE	LYS	A	453	25.730	-19.142	-5.247	1.00145.75	C
ATOM	3505	NZ	LYS	A	453	25.340	-19.957	-6.414	1.00149.71	N1+
ATOM	3506	N	ALA	A	454	23.554	-13.007	-2.754	1.00154.76	N
ATOM	3507	CA	ALA	A	454	22.354	-12.192	-2.747	1.00148.54	C
ATOM	3508	C	ALA	A	454	22.537	-10.879	-1.995	1.00140.56	C
ATOM	3509	O	ALA	A	454	23.399	-10.767	-1.122	1.00138.31	O
ATOM	3510	CB	ALA	A	454	21.228	-12.984	-2.149	1.00 46.45	C
ATOM	3511	N	GLN	A	455	21.722	-9.885	-2.339	1.00146.39	N
ATOM	3512	CA	GLN	A	455	21.778	-8.586	-1.668	1.00139.31	C
ATOM	3513	C	GLN	A	455	20.845	-8.529	-0.450	1.00134.69	C
ATOM	3514	O	GLN	A	455	19.763	-9.127	-0.443	1.00136.48	O
ATOM	3515	CB	GLN	A	455	21.492	-7.433	-2.647	1.00143.24	C
ATOM	3516	CG	GLN	A	455	22.462	-7.340	-3.829	1.00147.38	C
ATOM	3517	CD	GLN	A	455	23.924	-7.471	-3.419	1.00165.39	C
ATOM	3518	NE2	GLN	A	455	24.734	-8.051	-4.300	1.00171.66	N
ATOM	3519	OE1	GLN	A	455	24.319	-7.063	-2.323	1.00160.44	O
ATOM	3520	N	ARG	A	456	21.283	-7.801	0.574	1.00121.82	N
ATOM	3521	CA	ARG	A	456	20.609	-7.768	1.870	1.00117.70	C
ATOM	3522	C	ARG	A	456	19.146	-7.345	1.823	1.00117.36	C
ATOM	3523	O	ARG	A	456	18.391	-7.593	2.771	1.00115.99	O
ATOM	3524	CB	ARG	A	456	21.382	-6.862	2.820	1.00108.17	C
ATOM	3525	CG	ARG	A	456	22.718	-7.424	3.209	1.00108.54	C
ATOM	3526	CD	ARG	A	456	22.532	-8.767	3.851	1.00111.62	C
ATOM	3527	NE	ARG	A	456	23.375	-9.787	3.242	1.00118.52	N
ATOM	3528	CZ	ARG	A	456	22.999	-10.565	2.233	1.00124.83	C
ATOM	3529	NH1	ARG	A	456	21.789	-10.440	1.711	1.00124.91	N1+
ATOM	3530	NH2	ARG	A	456	23.834	-11.473	1.747	1.00131.67	N
ATOM	3531	N	GLU	A	457	18.763	-6.705	0.722	1.00 83.40	N
ATOM	3532	CA	GLU	A	457	17.413	-6.186	0.547	1.00 84.33	C
ATOM	3533	C	GLU	A	457	16.587	-7.122	-0.377	1.00 90.22	C

ATOM	3534	O	GLU	A	457	15.396	-6.869	-0.644	1.00	92.53	O
ATOM	3535	CB	GLU	A	457	17.474	-4.727	0.029	1.00	114.25	C
ATOM	3536	CG	GLU	A	457	16.198	-3.866	0.212	1.00	119.35	C
ATOM	3537	CD	GLU	A	457	16.058	-3.188	1.595	1.00	117.77	C
ATOM	3538	OE1	GLU	A	457	16.939	-3.360	2.474	1.00	111.91	O
ATOM	3539	OE2	GLU	A	457	15.048	-2.475	1.801	1.00	122.45	O1-
ATOM	3540	N	ASP	A	458	17.225	-8.210	-0.834	1.00	97.07	N
ATOM	3541	CA	ASP	A	458	16.622	-9.170	-1.768	1.00	102.92	C
ATOM	3542	C	ASP	A	458	15.581	-10.050	-1.102	1.00	104.26	C
ATOM	3543	O	ASP	A	458	15.831	-10.590	-0.035	1.00	102.51	O
ATOM	3544	CB	ASP	A	458	17.699	-10.079	-2.358	1.00	129.60	C
ATOM	3545	CG	ASP	A	458	18.350	-9.489	-3.585	1.00	131.91	C
ATOM	3546	OD1	ASP	A	458	17.767	-8.558	-4.176	1.00	132.98	O
ATOM	3547	OD2	ASP	A	458	19.439	-9.963	-3.973	1.00	134.57	O1-
ATOM	3548	N	TYR	A	459	14.426	-10.228	-1.737	1.00	113.70	N
ATOM	3549	CA	TYR	A	459	13.410	-11.134	-1.201	1.00	114.33	C
ATOM	3550	C	TYR	A	459	13.569	-12.581	-1.625	1.00	118.60	C
ATOM	3551	O	TYR	A	459	13.867	-12.882	-2.779	1.00	121.79	O
ATOM	3552	CB	TYR	A	459	12.020	-10.658	-1.570	1.00	144.77	C
ATOM	3553	CG	TYR	A	459	11.514	-9.705	-0.561	1.00	141.23	C
ATOM	3554	CD1	TYR	A	459	11.942	-8.395	-0.556	1.00	138.79	C
ATOM	3555	CD2	TYR	A	459	10.655	-10.119	0.426	1.00	139.04	C
ATOM	3556	CE1	TYR	A	459	11.498	-7.505	0.396	1.00	136.02	C
ATOM	3557	CE2	TYR	A	459	10.201	-9.243	1.383	1.00	134.08	C
ATOM	3558	CZ	TYR	A	459	10.625	-7.933	1.367	1.00	132.71	C
ATOM	3559	OH	TYR	A	459	10.176	-7.057	2.332	1.00	128.18	O
ATOM	3560	N	VAL	A	460	13.354	-13.479	-0.678	1.00	91.18	N
ATOM	3561	CA	VAL	A	460	13.294	-14.903	-0.983	1.00	95.85	C
ATOM	3562	C	VAL	A	460	11.877	-15.478	-0.759	1.00	95.44	C
ATOM	3563	O	VAL	A	460	11.327	-15.408	0.336	1.00	92.15	O
ATOM	3564	CB	VAL	A	460	14.401	-15.689	-0.216	1.00	57.65	C
ATOM	3565	CG1	VAL	A	460	13.845	-16.593	0.856	1.00	57.88	C
ATOM	3566	CG2	VAL	A	460	15.159	-16.511	-1.171	1.00	61.91	C
ATOM	3567	N	VAL	A	461	11.257	-16.010	-1.803	1.00	100.52	N
ATOM	3568	CA	VAL	A	461	9.978	-16.679	-1.606	1.00	97.74	C
ATOM	3569	C	VAL	A	461	10.242	-18.124	-1.196	1.00	98.08	C
ATOM	3570	O	VAL	A	461	10.970	-18.857	-1.871	1.00	101.17	O
ATOM	3571	CB	VAL	A	461	9.066	-16.624	-2.851	1.00	69.93	C
ATOM	3572	CG1	VAL	A	461	7.867	-17.521	-2.658	1.00	67.17	C
ATOM	3573	CG2	VAL	A	461	8.616	-15.183	-3.140	1.00	71.04	C
ATOM	3574	N	ALA	A	462	9.678	-18.500	-0.053	1.00	93.86	N
ATOM	3575	CA	ALA	A	462	9.713	-19.865	0.449	1.00	94.82	C
ATOM	3576	C	ALA	A	462	8.453	-20.004	1.277	1.00	90.45	C
ATOM	3577	O	ALA	A	462	7.648	-19.079	1.322	1.00	85.60	O
ATOM	3578	CB	ALA	A	462	10.946	-20.101	1.290	1.00	101.81	C
ATOM	3579	N	TRP	A	463	8.264	-21.153	1.906	1.00	128.54	N
ATOM	3580	CA	TRP	A	463	7.129	-21.330	2.795	1.00	121.67	C
ATOM	3581	C	TRP	A	463	7.473	-20.632	4.125	1.00	117.18	C
ATOM	3582	O	TRP	A	463	8.646	-20.314	4.353	1.00	119.50	O
ATOM	3583	CB	TRP	A	463	6.828	-22.826	2.962	1.00	97.46	C
ATOM	3584	CG	TRP	A	463	5.535	-23.115	3.657	1.00	92.12	C
ATOM	3585	CD1	TRP	A	463	5.343	-23.920	4.737	1.00	91.02	C
ATOM	3586	CD2	TRP	A	463	4.257	-22.579	3.326	1.00	88.32	C
ATOM	3587	CE2	TRP	A	463	3.338	-23.096	4.248	1.00	85.36	C
ATOM	3588	CE3	TRP	A	463	3.801	-21.706	2.336	1.00	87.81	C
ATOM	3589	NE1	TRP	A	463	4.027	-23.915	5.101	1.00	85.46	N
ATOM	3590	CZ2	TRP	A	463	1.983	-22.767	4.210	1.00	80.77	C
ATOM	3591	CZ3	TRP	A	463	2.456	-21.385	2.298	1.00	84.04	C
ATOM	3592	CH2	TRP	A	463	1.561	-21.912	3.229	1.00	81.39	C
ATOM	3593	N	TRP	A	464	6.473	-20.366	4.979	1.00	88.98	N
ATOM	3594	CA	TRP	A	464	6.698	-19.709	6.295	1.00	84.52	C

ATOM	3595	C	TRP	A	464	7.453	-20.516	7.401	1.00	84.80	C
ATOM	3596	O	TRP	A	464	8.136	-19.916	8.245	1.00	82.53	O
ATOM	3597	CB	TRP	A	464	5.384	-19.148	6.851	1.00	108.27	C
ATOM	3598	CG	TRP	A	464	4.437	-20.180	7.383	1.00	104.51	C
ATOM	3599	CD1	TRP	A	464	3.387	-20.755	6.726	1.00	104.85	C
ATOM	3600	CD2	TRP	A	464	4.449	-20.751	8.683	1.00	100.24	C
ATOM	3601	CE2	TRP	A	464	3.393	-21.668	8.751	1.00	98.69	C
ATOM	3602	CE3	TRP	A	464	5.256	-20.585	9.796	1.00	98.02	C
ATOM	3603	NE1	TRP	A	464	2.754	-21.653	7.540	1.00	101.40	N
ATOM	3604	CZ2	TRP	A	464	3.127	-22.408	9.893	1.00	95.47	C
ATOM	3605	CZ3	TRP	A	464	4.989	-21.321	10.922	1.00	94.45	C
ATOM	3606	CH2	TRP	A	464	3.939	-22.215	10.968	1.00	93.46	C
ATOM	3607	N	ASP	A	465	7.312	-21.849	7.392	1.00	82.05	N
ATOM	3608	CA	ASP	A	465	8.069	-22.744	8.258	1.00	83.41	C
ATOM	3609	C	ASP	A	465	9.539	-22.432	8.174	1.00	89.15	C
ATOM	3610	O	ASP	A	465	10.283	-22.593	9.138	1.00	87.32	O
ATOM	3611	CB	ASP	A	465	7.943	-24.180	7.792	1.00	117.95	C
ATOM	3612	CG	ASP	A	465	6.667	-24.818	8.211	1.00	113.93	C
ATOM	3613	OD1	ASP	A	465	6.716	-25.982	8.676	1.00	115.05	O
ATOM	3614	OD2	ASP	A	465	5.618	-24.165	8.050	1.00	111.77	O1-
ATOM	3615	N	TYR	A	466	9.964	-22.015	6.994	1.00	92.76	N
ATOM	3616	CA	TYR	A	466	11.372	-21.908	6.688	1.00	97.79	C
ATOM	3617	C	TYR	A	466	11.937	-20.511	6.911	1.00	94.36	C
ATOM	3618	O	TYR	A	466	13.126	-20.362	7.254	1.00	95.54	O
ATOM	3619	CB	TYR	A	466	11.556	-22.332	5.243	1.00	81.39	C
ATOM	3620	CG	TYR	A	466	11.045	-23.722	5.001	1.00	84.22	C
ATOM	3621	CD1	TYR	A	466	11.286	-24.725	5.927	1.00	84.84	C
ATOM	3622	CD2	TYR	A	466	10.326	-24.032	3.857	1.00	86.34	C
ATOM	3623	CE1	TYR	A	466	10.836	-25.993	5.725	1.00	87.42	C
ATOM	3624	CE2	TYR	A	466	9.870	-25.300	3.639	1.00	88.56	C
ATOM	3625	CZ	TYR	A	466	10.120	-26.283	4.583	1.00	89.33	C
ATOM	3626	OH	TYR	A	466	9.650	-27.571	4.391	1.00	92.35	O
ATOM	3627	N	GLY	A	467	11.078	-19.503	6.724	1.00	111.17	N
ATOM	3628	CA	GLY	A	467	11.445	-18.091	6.714	1.00	108.46	C
ATOM	3629	C	GLY	A	467	12.477	-17.598	7.713	1.00	106.72	C
ATOM	3630	O	GLY	A	467	13.433	-16.892	7.344	1.00	109.73	O
ATOM	3631	N	TYR	A	468	12.288	-17.942	8.984	1.00	112.81	N
ATOM	3632	CA	TYR	A	468	13.296	-17.635	9.995	1.00	110.46	C
ATOM	3633	C	TYR	A	468	14.674	-18.164	9.595	1.00	117.01	C
ATOM	3634	O	TYR	A	468	15.513	-17.351	9.253	1.00	119.17	O
ATOM	3635	CB	TYR	A	468	12.879	-18.127	11.370	1.00	114.96	C
ATOM	3636	CG	TYR	A	468	11.767	-17.319	11.963	1.00	109.18	C
ATOM	3637	CD1	TYR	A	468	10.730	-17.935	12.644	1.00	103.56	C
ATOM	3638	CD2	TYR	A	468	11.754	-15.943	11.852	1.00	106.20	C
ATOM	3639	CE1	TYR	A	468	9.713	-17.200	13.202	1.00	96.10	C
ATOM	3640	CE2	TYR	A	468	10.735	-15.202	12.397	1.00	98.66	C
ATOM	3641	CZ	TYR	A	468	9.717	-15.836	13.075	1.00	93.69	C
ATOM	3642	OH	TYR	A	468	8.688	-15.114	13.633	1.00	87.09	O
ATOM	3643	N	PRO	A	469	14.911	-19.509	9.623	1.00	71.08	N
ATOM	3644	CA	PRO	A	469	16.181	-20.069	9.145	1.00	78.67	C
ATOM	3645	C	PRO	A	469	16.664	-19.438	7.854	1.00	85.18	C
ATOM	3646	O	PRO	A	469	17.791	-18.959	7.844	1.00	87.58	O
ATOM	3647	CB	PRO	A	469	15.833	-21.534	8.907	1.00	95.87	C
ATOM	3648	CG	PRO	A	469	14.912	-21.836	9.956	1.00	88.87	C
ATOM	3649	CD	PRO	A	469	14.052	-20.593	10.138	1.00	82.59	C
ATOM	3650	N	ILE	A	470	15.841	-19.435	6.803	1.00	112.11	N
ATOM	3651	CA	ILE	A	470	16.239	-18.757	5.565	1.00	113.48	C
ATOM	3652	C	ILE	A	470	16.916	-17.430	5.905	1.00	109.28	C
ATOM	3653	O	ILE	A	470	17.997	-17.097	5.386	1.00	110.04	O
ATOM	3654	CB	ILE	A	470	15.027	-18.433	4.657	1.00	109.58	C
ATOM	3655	CG1	ILE	A	470	14.333	-19.703	4.166	1.00	111.95	C

ATOM	3656	CG2	ILE	A	470	15.457	-17.561	3.477	1.00111.25	C
ATOM	3657	CD1	ILE	A	470	15.171	-20.555	3.264	1.00133.99	C
ATOM	3658	N	ARG	A	471	16.277	-16.679	6.797	1.00110.83	N
ATOM	3659	CA	ARG	A	471	16.750	-15.344	7.143	1.00105.40	C
ATOM	3660	C	ARG	A	471	18.029	-15.283	8.011	1.00103.74	C
ATOM	3661	O	ARG	A	471	18.907	-14.464	7.782	1.00100.91	O
ATOM	3662	CB	ARG	A	471	15.612	-14.577	7.797	1.00104.40	C
ATOM	3663	CG	ARG	A	471	15.398	-13.244	7.171	1.00102.62	C
ATOM	3664	CD	ARG	A	471	14.027	-12.694	7.481	1.00100.94	C
ATOM	3665	NE	ARG	A	471	13.731	-12.718	8.906	1.00 94.88	N
ATOM	3666	CZ	ARG	A	471	12.555	-12.379	9.413	1.00 90.55	C
ATOM	3667	NH1	ARG	A	471	11.588	-11.987	8.599	1.00 91.30	N1+
ATOM	3668	NH2	ARG	A	471	12.351	-12.438	10.722	1.00 85.64	N
ATOM	3669	N	TYR	A	472	18.135	-16.141	9.010	1.00108.86	N
ATOM	3670	CA	TYR	A	472	19.274	-16.103	9.894	1.00107.94	C
ATOM	3671	C	TYR	A	472	20.476	-16.550	9.126	1.00112.78	C
ATOM	3672	O	TYR	A	472	21.582	-16.077	9.351	1.00111.17	O
ATOM	3673	CB	TYR	A	472	19.088	-17.067	11.052	1.00107.57	C
ATOM	3674	CG	TYR	A	472	20.372	-17.328	11.800	1.00109.12	C
ATOM	3675	CD1	TYR	A	472	20.768	-16.506	12.842	1.00103.06	C
ATOM	3676	CD2	TYR	A	472	21.195	-18.381	11.451	1.00117.27	C
ATOM	3677	CE1	TYR	A	472	21.937	-16.736	13.515	1.00104.86	C
ATOM	3678	CE2	TYR	A	472	22.366	-18.611	12.123	1.00119.62	C
ATOM	3679	CZ	TYR	A	472	22.728	-17.786	13.151	1.00113.31	C
ATOM	3680	OH	TYR	A	472	23.893	-18.018	13.821	1.00115.96	O
ATOM	3681	N	TYR	A	473	20.266	-17.503	8.235	1.00 98.40	N
ATOM	3682	CA	TYR	A	473	21.371	-18.055	7.462	1.00103.25	C
ATOM	3683	C	TYR	A	473	21.764	-17.217	6.233	1.00103.11	C
ATOM	3684	O	TYR	A	473	22.923	-17.253	5.809	1.00105.53	O
ATOM	3685	CB	TYR	A	473	21.066	-19.505	7.076	1.00 87.78	C
ATOM	3686	CG	TYR	A	473	21.215	-20.468	8.232	1.00 90.97	C
ATOM	3687	CD1	TYR	A	473	20.134	-21.168	8.737	1.00 91.62	C
ATOM	3688	CD2	TYR	A	473	22.449	-20.662	8.818	1.00 93.71	C
ATOM	3689	CE1	TYR	A	473	20.294	-22.042	9.787	1.00 92.97	C
ATOM	3690	CE2	TYR	A	473	22.620	-21.527	9.860	1.00 97.49	C
ATOM	3691	CZ	TYR	A	473	21.551	-22.215	10.351	1.00 96.31	C
ATOM	3692	OH	TYR	A	473	21.771	-23.063	11.418	1.00 96.03	O
ATOM	3693	N	SER	A	474	20.812	-16.451	5.689	1.00 96.20	N
ATOM	3694	CA	SER	A	474	21.064	-15.675	4.473	1.00 96.30	C
ATOM	3695	C	SER	A	474	21.044	-14.157	4.607	1.00 88.34	C
ATOM	3696	O	SER	A	474	21.488	-13.464	3.703	1.00 87.71	O
ATOM	3697	CB	SER	A	474	20.071	-16.076	3.401	1.00 90.21	C
ATOM	3698	OG	SER	A	474	20.139	-17.468	3.200	1.00 93.26	O
ATOM	3699	N	ASP	A	475	20.518	-13.642	5.710	1.00123.17	N
ATOM	3700	CA	ASP	A	475	20.432	-12.192	5.922	1.00115.87	C
ATOM	3701	C	ASP	A	475	19.523	-11.533	4.874	1.00115.62	C
ATOM	3702	O	ASP	A	475	19.400	-10.304	4.808	1.00112.95	O
ATOM	3703	CB	ASP	A	475	21.828	-11.549	5.919	1.00146.68	C
ATOM	3704	CG	ASP	A	475	21.967	-10.395	6.924	1.00139.83	C
ATOM	3705	OD1	ASP	A	475	20.960	-10.000	7.572	1.00137.43	O
ATOM	3706	OD2	ASP	A	475	23.102	-9.878	7.056	1.00137.99	O1-
ATOM	3707	N	VAL	A	476	18.878	-12.365	4.065	1.00111.48	N
ATOM	3708	CA	VAL	A	476	17.902	-11.893	3.090	1.00112.65	C
ATOM	3709	C	VAL	A	476	16.553	-11.476	3.722	1.00110.68	C
ATOM	3710	O	VAL	A	476	16.359	-11.615	4.919	1.00108.88	O
ATOM	3711	CB	VAL	A	476	17.663	-12.977	2.031	1.00120.26	C
ATOM	3712	CG1	VAL	A	476	18.980	-13.339	1.377	1.00123.31	C
ATOM	3713	CG2	VAL	A	476	17.003	-14.223	2.655	1.00124.33	C
ATOM	3714	N	LYS	A	477	15.631	-10.950	2.918	1.00111.54	N
ATOM	3715	CA	LYS	A	477	14.266	-10.681	3.375	1.00111.60	C
ATOM	3716	C	LYS	A	477	13.346	-11.792	2.874	1.00117.40	C

ATOM	3717	O	LYS	A	477	13.549	-12.319	1.776	1.00121.40	O
ATOM	3718	CB	LYS	A	477	13.745	-9.356	2.812	1.00 99.88	C
ATOM	3719	CG	LYS	A	477	14.424	-8.092	3.277	1.00 95.38	C
ATOM	3720	CD	LYS	A	477	13.706	-6.879	2.693	1.00 97.08	C
ATOM	3721	CE	LYS	A	477	14.019	-5.623	3.500	1.00 94.50	C
ATOM	3722	NZ	LYS	A	477	13.397	-4.349	2.980	1.00 99.61	N1+
ATOM	3723	N	THR	A	478	12.320	-12.125	3.658	1.00127.58	N
ATOM	3724	CA	THR	A	478	11.355	-13.157	3.272	1.00129.12	C
ATOM	3725	C	THR	A	478	9.930	-12.621	3.243	1.00122.89	C
ATOM	3726	O	THR	A	478	9.629	-11.587	3.840	1.00117.76	O
ATOM	3727	CB	THR	A	478	11.384	-14.325	4.242	1.00112.24	C
ATOM	3728	CG2	THR	A	478	12.792	-14.870	4.364	1.00118.87	C
ATOM	3729	OG1	THR	A	478	10.942	-13.873	5.526	1.00104.99	O
ATOM	3730	N	LEU	A	479	9.045	-13.330	2.556	1.00110.93	N
ATOM	3731	CA	LEU	A	479	7.678	-12.856	2.420	1.00106.43	C
ATOM	3732	C	LEU	A	479	6.889	-13.170	3.678	1.00100.06	C
ATOM	3733	O	LEU	A	479	6.081	-12.356	4.138	1.00 95.39	O
ATOM	3734	CB	LEU	A	479	6.995	-13.506	1.216	1.00 80.68	C
ATOM	3735	CG	LEU	A	479	6.939	-12.796	-0.138	1.00 85.88	C
ATOM	3736	CD1	LEU	A	479	6.277	-13.691	-1.163	1.00 89.02	C
ATOM	3737	CD2	LEU	A	479	6.203	-11.476	-0.048	1.00 81.59	C
ATOM	3738	N	ILE	A	480	7.113	-14.365	4.224	1.00100.23	N
ATOM	3739	CA	ILE	A	480	6.354	-14.823	5.385	1.00 96.47	C
ATOM	3740	C	ILE	A	480	7.218	-15.665	6.310	1.00 98.06	C
ATOM	3741	O	ILE	A	480	8.003	-16.494	5.854	1.00103.35	O
ATOM	3742	CB	ILE	A	480	5.057	-15.620	4.986	1.00 79.36	C
ATOM	3743	CG1	ILE	A	480	5.416	-16.972	4.331	1.00 78.51	C
ATOM	3744	CG2	ILE	A	480	4.137	-14.754	4.115	1.00 81.57	C
ATOM	3745	CD1	ILE	A	480	4.248	-17.846	3.878	1.00 94.46	C
ATOM	3746	N	ASP	A	481	7.070	-15.436	7.611	1.00 97.63	N
ATOM	3747	CA	ASP	A	481	7.760	-16.230	8.624	1.00 98.10	C
ATOM	3748	C	ASP	A	481	6.793	-16.776	9.688	1.00 91.32	C
ATOM	3749	O	ASP	A	481	5.600	-16.451	9.692	1.00 87.66	O
ATOM	3750	CB	ASP	A	481	8.943	-15.455	9.261	1.00124.59	C
ATOM	3751	CG	ASP	A	481	8.523	-14.140	9.962	1.00118.15	C
ATOM	3752	OD1	ASP	A	481	8.304	-14.147	11.191	1.00111.44	O
ATOM	3753	OD2	ASP	A	481	8.455	-13.085	9.295	1.00120.78	O1-
ATOM	3754	N	GLY	A	482	7.319	-17.619	10.574	1.00102.26	N
ATOM	3755	CA	GLY	A	482	6.543	-18.209	11.654	1.00 97.22	C
ATOM	3756	C	GLY	A	482	5.822	-17.213	12.534	1.00 90.76	C
ATOM	3757	O	GLY	A	482	5.132	-17.602	13.469	1.00 87.07	O
ATOM	3758	N	GLY	A	483	5.997	-15.928	12.241	1.00 91.31	N
ATOM	3759	CA	GLY	A	483	5.317	-14.869	12.955	1.00 86.06	C
ATOM	3760	C	GLY	A	483	4.328	-14.196	12.025	1.00 86.75	C
ATOM	3761	O	GLY	A	483	3.170	-13.960	12.392	1.00 83.34	O
ATOM	3762	N	LYS	A	484	4.781	-13.902	10.809	1.00 97.85	N
ATOM	3763	CA	LYS	A	484	3.928	-13.350	9.754	1.00 99.54	C
ATOM	3764	C	LYS	A	484	3.425	-14.501	8.892	1.00103.57	C
ATOM	3765	O	LYS	A	484	4.025	-14.828	7.872	1.00109.74	O
ATOM	3766	CB	LYS	A	484	4.733	-12.362	8.897	1.00100.39	C
ATOM	3767	CG	LYS	A	484	3.959	-11.664	7.783	1.00102.86	C
ATOM	3768	CD	LYS	A	484	4.892	-10.895	6.858	1.00108.16	C
ATOM	3769	CE	LYS	A	484	4.158	-9.800	6.099	1.00110.08	C
ATOM	3770	NZ	LYS	A	484	5.084	-8.873	5.367	1.00114.34	N1+
ATOM	3771	N	HIS	A	485	2.340	-15.136	9.312	1.00102.78	N
ATOM	3772	CA	HIS	A	485	1.890	-16.330	8.611	1.00106.30	C
ATOM	3773	C	HIS	A	485	0.381	-16.528	8.675	1.00104.16	C
ATOM	3774	O	HIS	A	485	-0.089	-17.635	8.918	1.00104.78	O
ATOM	3775	CB	HIS	A	485	2.635	-17.593	9.088	1.00 99.81	C
ATOM	3776	CG	HIS	A	485	2.358	-17.975	10.497	1.00 95.13	C
ATOM	3777	CD2	HIS	A	485	3.007	-17.697	11.657	1.00 95.01	C

ATOM	3778	ND1	HIS	A	485	1.269	-18.754	10.879	1.00	90.63	N
ATOM	3779	CE1	HIS	A	485	1.266	-18.925	12.175	1.00	88.10	C
ATOM	3780	NE2	HIS	A	485	2.323	-18.292	12.683	1.00	90.58	N
ATOM	3781	N	LEU	A	486	-0.374	-15.454	8.451	1.00	111.19	N
ATOM	3782	CA	LEU	A	486	-1.823	-15.566	8.295	1.00	110.58	C
ATOM	3783	C	LEU	A	486	-2.164	-16.116	6.910	1.00	115.35	C
ATOM	3784	O	LEU	A	486	-1.327	-16.074	5.997	1.00	119.03	O
ATOM	3785	CB	LEU	A	486	-2.515	-14.211	8.507	1.00	101.73	C
ATOM	3786	CG	LEU	A	486	-2.603	-13.649	9.932	1.00	97.50	C
ATOM	3787	CD1	LEU	A	486	-3.600	-12.496	10.013	1.00	96.90	C
ATOM	3788	CD2	LEU	A	486	-2.984	-14.736	10.928	1.00	96.56	C
ATOM	3789	N	GLY	A	487	-3.383	-16.635	6.754	1.00	87.43	N
ATOM	3790	CA	GLY	A	487	-3.838	-17.111	5.457	1.00	91.88	C
ATOM	3791	C	GLY	A	487	-3.541	-16.125	4.340	1.00	94.45	C
ATOM	3792	O	GLY	A	487	-3.045	-16.533	3.265	1.00	98.85	O
ATOM	3793	N	LYS	A	488	-3.846	-14.841	4.609	1.00	97.15	N
ATOM	3794	CA	LYS	A	488	-3.571	-13.735	3.701	1.00	99.35	C
ATOM	3795	C	LYS	A	488	-2.079	-13.626	3.342	1.00	101.27	C
ATOM	3796	O	LYS	A	488	-1.738	-13.298	2.207	1.00	102.25	O
ATOM	3797	CB	LYS	A	488	-4.132	-12.421	4.254	1.00	150.95	C
ATOM	3798	CG	LYS	A	488	-3.366	-11.119	3.877	1.00	148.04	C
ATOM	3799	CD	LYS	A	488	-2.670	-11.068	2.472	1.00	145.84	C
ATOM	3800	CE	LYS	A	488	-3.556	-10.626	1.302	1.00	150.26	C
ATOM	3801	NZ	LYS	A	488	-3.558	-9.144	1.129	1.00	148.69	N1+
ATOM	3802	N	ASP	A	489	-1.180	-13.916	4.278	1.00	94.38	N
ATOM	3803	CA	ASP	A	489	0.251	-13.790	3.990	1.00	95.73	C
ATOM	3804	C	ASP	A	489	0.784	-15.056	3.341	1.00	99.01	C
ATOM	3805	O	ASP	A	489	1.556	-14.993	2.380	1.00	102.57	O
ATOM	3806	CB	ASP	A	489	1.033	-13.482	5.261	1.00	115.25	C
ATOM	3807	CG	ASP	A	489	0.448	-12.320	6.042	1.00	110.36	C
ATOM	3808	OD1	ASP	A	489	0.229	-11.240	5.442	1.00	111.88	O
ATOM	3809	OD2	ASP	A	489	0.206	-12.499	7.259	1.00	105.39	O1-
ATOM	3810	N	ASN	A	490	0.368	-16.201	3.872	1.00	84.05	N
ATOM	3811	CA	ASN	A	490	0.691	-17.473	3.250	1.00	87.14	C
ATOM	3812	C	ASN	A	490	0.200	-17.613	1.800	1.00	89.79	C
ATOM	3813	O	ASN	A	490	0.738	-18.426	1.029	1.00	93.82	O
ATOM	3814	CB	ASN	A	490	0.130	-18.622	4.068	1.00	112.58	C
ATOM	3815	CG	ASN	A	490	0.520	-18.537	5.496	1.00	108.30	C
ATOM	3816	ND2	ASN	A	490	-0.452	-18.422	6.364	1.00	108.31	N
ATOM	3817	OD1	ASN	A	490	1.687	-18.577	5.824	1.00	105.77	O
ATOM	3818	N	PHE	A	491	-0.823	-16.846	1.422	1.00	83.75	N
ATOM	3819	CA	PHE	A	491	-1.384	-17.000	0.074	1.00	85.79	C
ATOM	3820	C	PHE	A	491	-0.363	-16.911	-1.049	1.00	89.64	C
ATOM	3821	O	PHE	A	491	-0.327	-17.773	-1.922	1.00	93.11	O
ATOM	3822	CB	PHE	A	491	-2.504	-16.014	-0.201	1.00	90.47	C
ATOM	3823	CG	PHE	A	491	-3.127	-16.201	-1.540	1.00	93.05	C
ATOM	3824	CD1	PHE	A	491	-4.077	-17.193	-1.743	1.00	93.41	C
ATOM	3825	CD2	PHE	A	491	-2.757	-15.404	-2.606	1.00	94.97	C
ATOM	3826	CE1	PHE	A	491	-4.649	-17.380	-2.983	1.00	95.57	C
ATOM	3827	CE2	PHE	A	491	-3.331	-15.583	-3.852	1.00	97.69	C
ATOM	3828	CZ	PHE	A	491	-4.273	-16.575	-4.040	1.00	97.54	C
ATOM	3829	N	PHE	A	492	0.452	-15.862	-1.024	1.00	88.15	N
ATOM	3830	CA	PHE	A	492	1.477	-15.662	-2.047	1.00	93.06	C
ATOM	3831	C	PHE	A	492	2.527	-16.781	-2.129	1.00	97.49	C
ATOM	3832	O	PHE	A	492	2.645	-17.465	-3.157	1.00	102.64	O
ATOM	3833	CB	PHE	A	492	2.143	-14.311	-1.854	1.00	123.56	C
ATOM	3834	CG	PHE	A	492	1.171	-13.198	-1.685	1.00	119.27	C
ATOM	3835	CD1	PHE	A	492	1.056	-12.537	-0.480	1.00	113.77	C
ATOM	3836	CD2	PHE	A	492	0.352	-12.833	-2.719	1.00	120.95	C
ATOM	3837	CE1	PHE	A	492	0.151	-11.509	-0.319	1.00	110.99	C
ATOM	3838	CE2	PHE	A	492	-0.555	-11.809	-2.568	1.00	117.85	C

ATOM	3839	CZ	PHE	A	492	-0.659	-11.145	-1.366	1.00113.05	C
ATOM	3840	N	SER	A	493	3.298	-16.970	-1.066	1.00 86.22	N
ATOM	3841	CA	SER	A	493	4.256	-18.080	-1.061	1.00 90.75	C
ATOM	3842	C	SER	A	493	3.618	-19.447	-1.429	1.00 91.73	C
ATOM	3843	O	SER	A	493	4.261	-20.302	-2.040	1.00 97.28	O
ATOM	3844	CB	SER	A	493	5.014	-18.139	0.276	1.00115.55	C
ATOM	3845	OG	SER	A	493	5.912	-17.047	0.408	1.00129.09	O
ATOM	3846	N	SER	A	494	2.355	-19.640	-1.054	1.00100.08	N
ATOM	3847	CA	SER	A	494	1.615	-20.824	-1.472	1.00101.40	C
ATOM	3848	C	SER	A	494	1.534	-20.849	-2.985	1.00106.52	C
ATOM	3849	O	SER	A	494	1.908	-21.827	-3.630	1.00111.63	O
ATOM	3850	CB	SER	A	494	0.191	-20.794	-0.906	1.00 94.44	C
ATOM	3851	OG	SER	A	494	-0.558	-21.930	-1.306	1.00 96.27	O
ATOM	3852	N	PHE	A	495	1.039	-19.753	-3.542	1.00 96.81	N
ATOM	3853	CA	PHE	A	495	0.793	-19.633	-4.971	1.00101.33	C
ATOM	3854	C	PHE	A	495	2.049	-19.851	-5.814	1.00108.04	C
ATOM	3855	O	PHE	A	495	2.062	-20.699	-6.713	1.00110.76	O
ATOM	3856	CB	PHE	A	495	0.227	-18.252	-5.254	1.00112.31	C
ATOM	3857	CG	PHE	A	495	-0.262	-18.068	-6.652	1.00115.99	C
ATOM	3858	CD1	PHE	A	495	-1.621	-17.985	-6.912	1.00112.98	C
ATOM	3859	CD2	PHE	A	495	0.627	-17.963	-7.700	1.00121.76	C
ATOM	3860	CE1	PHE	A	495	-2.078	-17.798	-8.186	1.00116.60	C
ATOM	3861	CE2	PHE	A	495	0.177	-17.781	-8.974	1.00124.99	C
ATOM	3862	CZ	PHE	A	495	-1.176	-17.697	-9.221	1.00123.17	C
ATOM	3863	N	VAL	A	496	3.096	-19.078	-5.526	1.00 99.64	N
ATOM	3864	CA	VAL	A	496	4.370	-19.186	-6.250	1.00104.08	C
ATOM	3865	C	VAL	A	496	4.920	-20.602	-6.281	1.00105.22	C
ATOM	3866	O	VAL	A	496	5.645	-20.971	-7.180	1.00107.79	O
ATOM	3867	CB	VAL	A	496	5.439	-18.284	-5.628	1.00 88.70	C
ATOM	3868	CG1	VAL	A	496	6.822	-18.758	-6.023	1.00107.13	C
ATOM	3869	CG2	VAL	A	496	5.225	-16.852	-6.043	1.00104.21	C
ATOM	3870	N	LEU	A	497	4.556	-21.388	-5.285	1.00 84.24	N
ATOM	3871	CA	LEU	A	497	5.066	-22.730	-5.130	1.00 85.91	C
ATOM	3872	C	LEU	A	497	4.142	-23.838	-5.577	1.00 86.49	C
ATOM	3873	O	LEU	A	497	4.594	-24.969	-5.697	1.00 89.17	O
ATOM	3874	CB	LEU	A	497	5.299	-22.994	-3.672	1.00 70.93	C
ATOM	3875	CG	LEU	A	497	6.626	-22.661	-3.087	1.00 71.77	C
ATOM	3876	CD1	LEU	A	497	6.348	-22.570	-1.624	1.00 70.15	C
ATOM	3877	CD2	LEU	A	497	7.551	-23.787	-3.398	1.00 75.80	C
ATOM	3878	N	SER	A	498	2.852	-23.567	-5.751	1.00 91.20	N
ATOM	3879	CA	SER	A	498	1.944	-24.670	-6.092	1.00 91.67	C
ATOM	3880	C	SER	A	498	1.148	-24.473	-7.378	1.00 93.65	C
ATOM	3881	O	SER	A	498	0.596	-25.430	-7.933	1.00 95.86	O
ATOM	3882	CB	SER	A	498	1.012	-25.003	-4.931	1.00 94.40	C
ATOM	3883	OG	SER	A	498	0.173	-23.911	-4.625	1.00 91.46	O
ATOM	3884	N	LYS	A	499	1.091	-23.240	-7.857	1.00121.61	N
ATOM	3885	CA	LYS	A	499	0.423	-22.994	-9.114	1.00124.21	C
ATOM	3886	C	LYS	A	499	1.397	-23.336	-10.229	1.00129.05	C
ATOM	3887	O	LYS	A	499	2.513	-23.797	-9.965	1.00130.34	O
ATOM	3888	CB	LYS	A	499	-0.065	-21.549	-9.193	1.00131.05	C
ATOM	3889	CG	LYS	A	499	-1.046	-21.202	-8.080	1.00125.85	C
ATOM	3890	CD	LYS	A	499	-2.134	-22.283	-7.957	1.00125.02	C
ATOM	3891	CE	LYS	A	499	-3.251	-21.937	-6.963	1.00119.25	C
ATOM	3892	NZ	LYS	A	499	-4.501	-22.712	-7.257	1.00119.76	N1+
ATOM	3893	N	GLU	A	500	0.977	-23.128	-11.473	1.00118.18	N
ATOM	3894	CA	GLU	A	500	1.833	-23.427	-12.620	1.00123.78	C
ATOM	3895	C	GLU	A	500	3.080	-22.521	-12.704	1.00126.36	C
ATOM	3896	O	GLU	A	500	3.085	-21.389	-12.233	1.00124.81	O
ATOM	3897	CB	GLU	A	500	1.020	-23.390	-13.928	1.00147.06	C
ATOM	3898	CG	GLU	A	500	-0.207	-24.316	-13.957	1.00144.75	C
ATOM	3899	CD	GLU	A	500	-0.697	-24.599	-15.371	1.00159.28	C

ATOM	3900	OE1	GLU	A	500	-0.323	-23.844	-16.292	1.00164.81	O
ATOM	3901	OE2	GLU	A	500	-1.446	-25.582	-15.565	1.00157.33	O1-
ATOM	3902	N	GLN	A	501	4.138	-23.042	-13.309	1.00138.05	N
ATOM	3903	CA	GLN	A	501	5.411	-22.341	-13.384	1.00135.83	C
ATOM	3904	C	GLN	A	501	5.310	-20.860	-13.713	1.00129.23	C
ATOM	3905	O	GLN	A	501	5.793	-20.025	-12.960	1.00123.15	O
ATOM	3906	CB	GLN	A	501	6.296	-22.995	-14.424	1.00106.38	C
ATOM	3907	CG	GLN	A	501	7.253	-23.997	-13.881	1.00113.55	C
ATOM	3908	CD	GLN	A	501	8.370	-24.264	-14.863	1.00122.99	C
ATOM	3909	NE2	GLN	A	501	8.765	-25.524	-14.995	1.00143.62	N
ATOM	3910	OE1	GLN	A	501	8.858	-23.348	-15.518	1.00121.41	O
ATOM	3911	N	ILE	A	502	4.712	-20.536	-14.852	1.00143.02	N
ATOM	3912	CA	ILE	A	502	4.701	-19.155	-15.334	1.00139.54	C
ATOM	3913	C	ILE	A	502	4.032	-18.206	-14.320	1.00132.85	C
ATOM	3914	O	ILE	A	502	4.677	-17.255	-13.807	1.00128.79	O
ATOM	3915	CB	ILE	A	502	4.042	-19.028	-16.760	1.00118.22	C
ATOM	3916	CG1	ILE	A	502	4.686	-19.985	-17.785	1.00136.34	C
ATOM	3917	CG2	ILE	A	502	4.121	-17.592	-17.273	1.00126.53	C
ATOM	3918	CD1	ILE	A	502	4.095	-21.395	-17.836	1.00142.12	C
ATOM	3919	N	PRO	A	503	2.742	-18.464	-14.006	1.00131.50	N
ATOM	3920	CA	PRO	A	503	2.048	-17.585	-13.057	1.00127.12	C
ATOM	3921	C	PRO	A	503	2.787	-17.512	-11.726	1.00122.15	C
ATOM	3922	O	PRO	A	503	2.846	-16.448	-11.137	1.00118.68	O
ATOM	3923	CB	PRO	A	503	0.660	-18.234	-12.910	1.00 92.54	C
ATOM	3924	CG	PRO	A	503	0.825	-19.620	-13.380	1.00107.85	C
ATOM	3925	CD	PRO	A	503	1.876	-19.571	-14.449	1.00109.87	C
ATOM	3926	N	ALA	A	504	3.358	-18.621	-11.278	1.00116.43	N
ATOM	3927	CA	ALA	A	504	4.193	-18.618	-10.087	1.00112.91	C
ATOM	3928	C	ALA	A	504	5.239	-17.529	-10.225	1.00110.35	C
ATOM	3929	O	ALA	A	504	5.361	-16.613	-9.386	1.00106.01	O
ATOM	3930	CB	ALA	A	504	4.873	-19.983	-9.923	1.00 65.28	C
ATOM	3931	N	ALA	A	505	5.995	-17.652	-11.307	1.00138.11	N
ATOM	3932	CA	ALA	A	505	7.053	-16.722	-11.623	1.00138.10	C
ATOM	3933	C	ALA	A	505	6.522	-15.301	-11.605	1.00134.95	C
ATOM	3934	O	ALA	A	505	7.267	-14.377	-11.300	1.00133.32	O
ATOM	3935	CB	ALA	A	505	7.638	-17.047	-12.952	1.00 65.96	C
ATOM	3936	N	ASN	A	506	5.240	-15.117	-11.919	1.00138.16	N
ATOM	3937	CA	ASN	A	506	4.647	-13.763	-11.801	1.00137.34	C
ATOM	3938	C	ASN	A	506	4.293	-13.258	-10.377	1.00133.14	C
ATOM	3939	O	ASN	A	506	4.640	-12.113	-9.982	1.00131.87	O
ATOM	3940	CB	ASN	A	506	3.467	-13.600	-12.761	1.00124.62	C
ATOM	3941	CG	ASN	A	506	3.911	-13.193	-14.155	1.00129.73	C
ATOM	3942	ND2	ASN	A	506	3.001	-13.278	-15.121	1.00134.20	N
ATOM	3943	OD1	ASN	A	506	5.060	-12.792	-14.354	1.00130.76	O
ATOM	3944	N	MET	A	507	3.594	-14.098	-9.616	1.00132.66	N
ATOM	3945	CA	MET	A	507	3.422	-13.847	-8.193	1.00128.78	C
ATOM	3946	C	MET	A	507	4.782	-13.452	-7.679	1.00124.70	C
ATOM	3947	O	MET	A	507	5.000	-12.295	-7.445	1.00122.74	O
ATOM	3948	CB	MET	A	507	2.901	-15.061	-7.410	1.00107.35	C
ATOM	3949	CG	MET	A	507	1.399	-15.111	-7.183	1.00105.00	C
ATOM	3950	SD	MET	A	507	0.638	-13.518	-6.839	1.00108.13	S
ATOM	3951	CE	MET	A	507	1.711	-12.910	-5.560	1.00103.53	C
ATOM	3952	N	ALA	A	508	5.723	-14.382	-7.562	1.00141.27	N
ATOM	3953	CA	ALA	A	508	7.005	-14.005	-6.961	1.00139.02	C
ATOM	3954	C	ALA	A	508	7.277	-12.488	-7.086	1.00138.51	C
ATOM	3955	O	ALA	A	508	7.239	-11.750	-6.079	1.00136.63	O
ATOM	3956	CB	ALA	A	508	8.122	-14.818	-7.553	1.00111.47	C
ATOM	3957	N	ARG	A	509	7.503	-12.021	-8.315	1.00117.14	N
ATOM	3958	CA	ARG	A	509	7.648	-10.585	-8.607	1.00118.71	C
ATOM	3959	C	ARG	A	509	6.598	-9.682	-7.929	1.00117.85	C
ATOM	3960	O	ARG	A	509	6.928	-8.868	-7.040	1.00116.75	O

ATOM	3961	CB	ARG	A	509	7.630	-10.345	-10.122	1.00120.33	C
ATOM	3962	CG	ARG	A	509	7.972	-8.923	-10.573	1.00123.83	C
ATOM	3963	CD	ARG	A	509	9.247	-8.359	-9.884	1.00121.75	C
ATOM	3964	NE	ARG	A	509	10.501	-9.086	-10.150	1.00122.55	N
ATOM	3965	CZ	ARG	A	509	11.624	-8.946	-9.437	1.00122.43	C
ATOM	3966	NH1	ARG	A	509	11.662	-8.110	-8.406	1.00120.06	N1+
ATOM	3967	NH2	ARG	A	509	12.709	-9.645	-9.748	1.00125.80	N
ATOM	3968	N	LEU	A	510	5.335	-9.821	-8.332	1.00109.65	N
ATOM	3969	CA	LEU	A	510	4.304	-8.939	-7.761	1.00111.25	C
ATOM	3970	C	LEU	A	510	4.074	-9.010	-6.229	1.00107.50	C
ATOM	3971	O	LEU	A	510	3.807	-8.002	-5.599	1.00109.05	O
ATOM	3972	CB	LEU	A	510	2.988	-9.119	-8.498	1.00108.12	C
ATOM	3973	CG	LEU	A	510	2.933	-8.446	-9.860	1.00114.74	C
ATOM	3974	CD1	LEU	A	510	1.574	-8.683	-10.492	1.00119.90	C
ATOM	3975	CD2	LEU	A	510	3.223	-6.951	-9.739	1.00118.77	C
ATOM	3976	N	SER	A	511	4.151	-10.196	-5.640	1.00108.92	N
ATOM	3977	CA	SER	A	511	4.037	-10.372	-4.202	1.00105.13	C
ATOM	3978	C	SER	A	511	5.211	-9.742	-3.469	1.00103.30	C
ATOM	3979	O	SER	A	511	5.042	-9.130	-2.415	1.00102.27	O
ATOM	3980	CB	SER	A	511	3.995	-11.855	-3.848	1.00108.42	C
ATOM	3981	OG	SER	A	511	5.301	-12.348	-3.613	1.00108.11	O
ATOM	3982	N	VAL	A	512	6.418	-9.904	-3.991	1.00102.41	N
ATOM	3983	CA	VAL	A	512	7.511	-9.258	-3.291	1.00101.55	C
ATOM	3984	C	VAL	A	512	7.410	-7.744	-3.419	1.00105.46	C
ATOM	3985	O	VAL	A	512	7.473	-7.010	-2.418	1.00105.73	O
ATOM	3986	CB	VAL	A	512	8.863	-9.757	-3.735	1.00 80.98	C
ATOM	3987	CG1	VAL	A	512	9.902	-8.717	-3.434	1.00 82.23	C
ATOM	3988	CG2	VAL	A	512	9.176	-11.050	-3.009	1.00 78.91	C
ATOM	3989	N	GLU	A	513	7.218	-7.265	-4.638	1.00109.22	N
ATOM	3990	CA	GLU	A	513	7.111	-5.827	-4.813	1.00115.09	C
ATOM	3991	C	GLU	A	513	6.006	-5.200	-3.960	1.00117.41	C
ATOM	3992	O	GLU	A	513	6.239	-4.208	-3.245	1.00119.63	O
ATOM	3993	CB	GLU	A	513	6.906	-5.494	-6.277	1.00147.58	C
ATOM	3994	CG	GLU	A	513	8.103	-5.846	-7.099	1.00147.63	C
ATOM	3995	CD	GLU	A	513	9.347	-5.147	-6.607	1.00147.67	C
ATOM	3996	OE1	GLU	A	513	9.216	-4.086	-5.957	1.00149.87	O
ATOM	3997	OE2	GLU	A	513	10.456	-5.657	-6.871	1.00146.64	O1-
ATOM	3998	N	TYR	A	514	4.808	-5.779	-4.032	1.00115.16	N
ATOM	3999	CA	TYR	A	514	3.653	-5.274	-3.291	1.00119.05	C
ATOM	4000	C	TYR	A	514	3.760	-5.479	-1.781	1.00114.73	C
ATOM	4001	O	TYR	A	514	3.148	-4.738	-1.000	1.00114.59	O
ATOM	4002	CB	TYR	A	514	2.349	-5.858	-3.824	1.00117.25	C
ATOM	4003	CG	TYR	A	514	1.740	-5.002	-4.893	1.00125.00	C
ATOM	4004	CD1	TYR	A	514	2.431	-4.742	-6.061	1.00133.21	C
ATOM	4005	CD2	TYR	A	514	0.484	-4.442	-4.739	1.00125.59	C
ATOM	4006	CE1	TYR	A	514	1.891	-3.951	-7.062	1.00142.62	C
ATOM	4007	CE2	TYR	A	514	-0.074	-3.648	-5.738	1.00134.74	C
ATOM	4008	CZ	TYR	A	514	0.640	-3.401	-6.901	1.00143.35	C
ATOM	4009	OH	TYR	A	514	0.122	-2.608	-7.909	1.00153.80	O
ATOM	4010	N	THR	A	515	4.537	-6.475	-1.363	1.00104.06	N
ATOM	4011	CA	THR	A	515	4.832	-6.630	0.062	1.00101.22	C
ATOM	4012	C	THR	A	515	5.772	-5.522	0.512	1.00102.86	C
ATOM	4013	O	THR	A	515	5.665	-5.039	1.633	1.00103.25	O
ATOM	4014	CB	THR	A	515	5.416	-8.023	0.436	1.00103.45	C
ATOM	4015	CG2	THR	A	515	6.896	-7.924	0.747	1.00100.16	C
ATOM	4016	OG1	THR	A	515	4.733	-8.526	1.592	1.00101.96	O
ATOM	4017	N	GLU	A	516	6.685	-5.112	-0.365	1.00 95.77	N
ATOM	4018	CA	GLU	A	516	7.530	-3.979	-0.027	1.00 99.84	C
ATOM	4019	C	GLU	A	516	6.745	-2.662	-0.095	1.00108.51	C
ATOM	4020	O	GLU	A	516	7.120	-1.676	0.544	1.00112.63	O
ATOM	4021	CB	GLU	A	516	8.763	-3.922	-0.919	1.00116.43	C

ATOM	4022	CG	GLU	A	516	9.910	-3.149	-0.301	1.00118.56	C
ATOM	4023	CD	GLU	A	516	10.569	-3.930	0.808	1.00113.08	C
ATOM	4024	OE1	GLU	A	516	11.461	-3.382	1.493	1.00113.52	O
ATOM	4025	OE2	GLU	A	516	10.193	-5.105	0.987	1.00109.02	O1-
ATOM	4026	N	LYS	A	517	5.668	-2.628	-0.876	1.00114.43	N
ATOM	4027	CA	LYS	A	517	4.823	-1.429	-0.905	1.00125.84	C
ATOM	4028	C	LYS	A	517	3.882	-1.339	0.310	1.00124.93	C
ATOM	4029	O	LYS	A	517	3.535	-0.234	0.779	1.00130.35	O
ATOM	4030	CB	LYS	A	517	4.035	-1.366	-2.221	1.00110.73	C
ATOM	4031	CG	LYS	A	517	4.886	-1.356	-3.483	1.00112.81	C
ATOM	4032	CD	LYS	A	517	4.540	-0.178	-4.392	1.00125.88	C
ATOM	4033	CE	LYS	A	517	3.144	-0.297	-5.000	1.00129.25	C
ATOM	4034	NZ	LYS	A	517	2.703	0.950	-5.709	1.00136.48	N1+
ATOM	4035	N	SER	A	518	3.454	-2.494	0.815	1.00154.41	N
ATOM	4036	CA	SER	A	518	2.615	-2.518	2.012	1.00152.45	C
ATOM	4037	C	SER	A	518	3.276	-1.747	3.133	1.00157.32	C
ATOM	4038	O	SER	A	518	2.605	-1.293	4.057	1.00158.78	O
ATOM	4039	CB	SER	A	518	2.354	-3.951	2.475	1.00144.47	C
ATOM	4040	OG	SER	A	518	1.798	-3.979	3.781	1.00144.56	O
ATOM	4041	N	PHE	A	519	4.592	-1.580	3.021	1.00113.81	N
ATOM	4042	CA	PHE	A	519	5.412	-1.042	4.097	1.00114.12	C
ATOM	4043	C	PHE	A	519	5.348	0.469	4.148	1.00125.83	C
ATOM	4044	O	PHE	A	519	5.693	1.073	5.151	1.00127.85	O
ATOM	4045	CB	PHE	A	519	6.855	-1.513	3.937	1.00161.76	C
ATOM	4046	CG	PHE	A	519	7.086	-2.918	4.403	1.00152.77	C
ATOM	4047	CD1	PHE	A	519	8.110	-3.678	3.868	1.00145.77	C
ATOM	4048	CD2	PHE	A	519	6.285	-3.476	5.384	1.00153.55	C
ATOM	4049	CE1	PHE	A	519	8.332	-4.965	4.297	1.00140.14	C
ATOM	4050	CE2	PHE	A	519	6.500	-4.769	5.819	1.00147.68	C
ATOM	4051	CZ	PHE	A	519	7.525	-5.512	5.274	1.00141.23	C
ATOM	4052	N	LYS	A	520	4.903	1.077	3.056	1.00147.12	N
ATOM	4053	CA	LYS	A	520	4.660	2.511	3.034	1.00161.34	C
ATOM	4054	C	LYS	A	520	3.177	2.808	2.924	1.00151.31	C
ATOM	4055	O	LYS	A	520	2.627	3.516	3.763	1.00149.99	O
ATOM	4056	CB	LYS	A	520	5.426	3.176	1.889	1.00168.70	C
ATOM	4057	CG	LYS	A	520	6.922	2.969	1.973	1.00171.69	C
ATOM	4058	CD	LYS	A	520	7.722	4.086	1.309	1.00189.45	C
ATOM	4059	CE	LYS	A	520	9.208	3.956	1.665	1.00186.14	C
ATOM	4060	NZ	LYS	A	520	10.065	5.005	1.047	1.00203.61	N1+
ATOM	4061	N	GLU	A	521	2.527	2.248	1.900	1.00165.27	N
ATOM	4062	CA	GLU	A	521	1.113	2.584	1.667	1.00158.60	C
ATOM	4063	C	GLU	A	521	0.121	1.835	2.577	1.00141.66	C
ATOM	4064	O	GLU	A	521	-1.076	2.101	2.554	1.00135.75	O
ATOM	4065	CB	GLU	A	521	0.776	2.488	0.175	1.00182.32	C
ATOM	4066	CG	GLU	A	521	1.531	3.536	-0.647	1.00201.21	C
ATOM	4067	CD	GLU	A	521	1.249	3.459	-2.135	1.00208.50	C
ATOM	4068	OE1	GLU	A	521	0.303	2.750	-2.530	1.00199.19	O
ATOM	4069	OE2	GLU	A	521	1.978	4.110	-2.909	1.00224.80	O1-
ATOM	4070	N	ASN	A	522	0.646	0.930	3.400	1.00171.10	N
ATOM	4071	CA	ASN	A	522	-0.133	0.263	4.441	1.00156.33	C
ATOM	4072	C	ASN	A	522	-1.376	-0.469	3.975	1.00143.84	C
ATOM	4073	O	ASN	A	522	-2.465	-0.248	4.509	1.00136.17	O
ATOM	4074	CB	ASN	A	522	-0.512	1.251	5.534	1.00155.64	C
ATOM	4075	CG	ASN	A	522	0.525	1.326	6.613	1.00161.45	C
ATOM	4076	ND2	ASN	A	522	0.952	2.536	6.936	1.00173.18	N
ATOM	4077	OD1	ASN	A	522	0.953	0.303	7.149	1.00156.75	O
ATOM	4078	N	TYR	A	523	-1.205	-1.349	2.992	1.00172.90	N
ATOM	4079	CA	TYR	A	523	-2.310	-2.143	2.470	1.00160.45	C
ATOM	4080	C	TYR	A	523	-2.838	-3.052	3.572	1.00141.59	C
ATOM	4081	O	TYR	A	523	-2.072	-3.785	4.193	1.00137.25	O
ATOM	4082	CB	TYR	A	523	-1.865	-2.980	1.262	1.00 81.14	C

ATOM	4083	CG	TYR	A	523	-1.296	-2.188	0.093	1.00	99.45	C
ATOM	4084	CD1	TYR	A	523	-0.026	-2.462	-0.407	1.00	109.35	C
ATOM	4085	CD2	TYR	A	523	-2.035	-1.177	-0.516	1.00	110.28	C
ATOM	4086	CE1	TYR	A	523	0.487	-1.750	-1.472	1.00	129.61	C
ATOM	4087	CE2	TYR	A	523	-1.524	-0.461	-1.576	1.00	131.10	C
ATOM	4088	CZ	TYR	A	523	-0.267	-0.751	-2.047	1.00	140.53	C
ATOM	4089	OH	TYR	A	523	0.233	-0.038	-3.107	1.00	162.59	O
ATOM	4090	N	PRO	A	524	-4.150	-2.992	3.832	1.00	160.87	N
ATOM	4091	CA	PRO	A	524	-4.750	-3.895	4.814	1.00	143.73	C
ATOM	4092	C	PRO	A	524	-4.887	-5.274	4.175	1.00	132.24	C
ATOM	4093	O	PRO	A	524	-4.915	-6.305	4.853	1.00	119.81	O
ATOM	4094	CB	PRO	A	524	-6.124	-3.271	5.048	1.00	109.06	C
ATOM	4095	CG	PRO	A	524	-6.459	-2.645	3.737	1.00	119.25	C
ATOM	4096	CD	PRO	A	524	-5.156	-2.157	3.155	1.00	134.50	C
ATOM	4097	N	ASP	A	525	-4.952	-5.273	2.847	1.00	140.49	N
ATOM	4098	CA	ASP	A	525	-5.085	-6.491	2.068	1.00	132.51	C
ATOM	4099	C	ASP	A	525	-4.256	-6.318	0.802	1.00	146.32	C
ATOM	4100	O	ASP	A	525	-4.666	-5.629	-0.127	1.00	155.66	O
ATOM	4101	CB	ASP	A	525	-6.559	-6.726	1.733	1.00	186.15	C
ATOM	4102	CG	ASP	A	525	-6.879	-8.183	1.502	1.00	176.43	C
ATOM	4103	OD1	ASP	A	525	-6.144	-8.818	0.724	1.00	182.24	O
ATOM	4104	OD2	ASP	A	525	-7.856	-8.693	2.098	1.00	164.25	O1-
ATOM	4105	N	VAL	A	526	-3.072	-6.924	0.796	1.00	125.00	N
ATOM	4106	CA	VAL	A	526	-2.108	-6.792	-0.296	1.00	139.87	C
ATOM	4107	C	VAL	A	526	-2.655	-7.271	-1.639	1.00	143.30	C
ATOM	4108	O	VAL	A	526	-2.626	-6.544	-2.647	1.00	159.97	O
ATOM	4109	CB	VAL	A	526	-0.841	-7.597	0.015	1.00	86.72	C
ATOM	4110	CG1	VAL	A	526	0.076	-7.625	-1.177	1.00	96.37	C
ATOM	4111	CG2	VAL	A	526	-0.135	-7.032	1.218	1.00	85.23	C
ATOM	4112	N	LEU	A	527	-3.135	-8.510	-1.654	1.00	104.88	N
ATOM	4113	CA	LEU	A	527	-3.789	-9.062	-2.834	1.00	108.99	C
ATOM	4114	C	LEU	A	527	-4.833	-8.099	-3.427	1.00	119.83	C
ATOM	4115	O	LEU	A	527	-4.766	-7.760	-4.615	1.00	137.11	O
ATOM	4116	CB	LEU	A	527	-4.440	-10.395	-2.491	1.00	95.87	C
ATOM	4117	CG	LEU	A	527	-4.794	-11.218	-3.719	1.00	100.51	C
ATOM	4118	CD1	LEU	A	527	-3.581	-11.985	-4.211	1.00	98.07	C
ATOM	4119	CD2	LEU	A	527	-5.884	-12.162	-3.351	1.00	86.05	C
ATOM	4120	N	LYS	A	528	-5.791	-7.670	-2.596	1.00	76.30	N
ATOM	4121	CA	LYS	A	528	-6.767	-6.644	-2.979	1.00	85.58	C
ATOM	4122	C	LYS	A	528	-6.072	-5.405	-3.568	1.00	105.85	C
ATOM	4123	O	LYS	A	528	-6.562	-4.806	-4.513	1.00	120.59	O
ATOM	4124	CB	LYS	A	528	-7.687	-6.265	-1.803	1.00	203.92	C
ATOM	4125	CG	LYS	A	528	-9.067	-5.754	-2.230	1.00	194.37	C
ATOM	4126	CD	LYS	A	528	-9.775	-4.988	-1.118	1.00	185.36	C
ATOM	4127	CE	LYS	A	528	-10.982	-4.193	-1.654	1.00	161.62	C
ATOM	4128	NZ	LYS	A	528	-11.516	-3.128	-0.716	1.00	152.76	N1+
ATOM	4129	N	ALA	A	529	-4.919	-5.034	-3.021	1.00	98.65	N
ATOM	4130	CA	ALA	A	529	-4.128	-3.922	-3.557	1.00	118.12	C
ATOM	4131	C	ALA	A	529	-3.758	-4.177	-5.003	1.00	136.06	C
ATOM	4132	O	ALA	A	529	-4.038	-3.364	-5.890	1.00	154.09	O
ATOM	4133	CB	ALA	A	529	-2.870	-3.728	-2.738	1.00	110.23	C
ATOM	4134	N	MET	A	530	-3.112	-5.312	-5.232	1.00	95.34	N
ATOM	4135	CA	MET	A	530	-2.732	-5.680	-6.586	1.00	113.66	C
ATOM	4136	C	MET	A	530	-3.941	-5.604	-7.492	1.00	119.20	C
ATOM	4137	O	MET	A	530	-3.893	-4.964	-8.537	1.00	139.26	O
ATOM	4138	CB	MET	A	530	-2.151	-7.080	-6.603	1.00	148.49	C
ATOM	4139	CG	MET	A	530	-1.064	-7.247	-5.589	1.00	128.14	C
ATOM	4140	SD	MET	A	530	-0.428	-8.916	-5.527	1.00	112.19	S
ATOM	4141	CE	MET	A	530	0.046	-9.114	-7.226	1.00	117.57	C
ATOM	4142	N	VAL	A	531	-5.030	-6.242	-7.072	1.00	97.90	N
ATOM	4143	CA	VAL	A	531	-6.271	-6.258	-7.855	1.00	104.22	C

ATOM	4144	C	VAL	A	531	-6.755	-4.858	-8.252	1.00122.46	C
ATOM	4145	O	VAL	A	531	-6.889	-4.564	-9.439	1.00143.52	O
ATOM	4146	CB	VAL	A	531	-7.411	-7.001	-7.117	1.00115.24	C
ATOM	4147	CG1	VAL	A	531	-8.754	-6.764	-7.813	1.00111.76	C
ATOM	4148	CG2	VAL	A	531	-7.101	-8.488	-7.001	1.00 88.46	C
ATOM	4149	N	LYS	A	532	-7.021	-4.004	-7.261	1.00141.42	N
ATOM	4150	CA	LYS	A	532	-7.457	-2.627	-7.513	1.00158.53	C
ATOM	4151	C	LYS	A	532	-6.422	-1.857	-8.327	1.00183.06	C
ATOM	4152	O	LYS	A	532	-6.731	-0.817	-8.912	1.00202.73	O
ATOM	4153	CB	LYS	A	532	-7.735	-1.880	-6.201	1.00232.12	C
ATOM	4154	CG	LYS	A	532	-9.149	-2.038	-5.655	1.00216.91	C
ATOM	4155	CD	LYS	A	532	-9.346	-1.228	-4.375	1.00210.02	C
ATOM	4156	CE	LYS	A	532	-10.719	-1.487	-3.754	1.00193.96	C
ATOM	4157	NZ	LYS	A	532	-10.892	-0.826	-2.424	1.00186.10	N1+
ATOM	4158	N	ASP	A	533	-5.192	-2.367	-8.359	1.00124.61	N
ATOM	4159	CA	ASP	A	533	-4.127	-1.723	-9.124	1.00148.50	C
ATOM	4160	C	ASP	A	533	-3.905	-2.357	-10.495	1.00165.43	C
ATOM	4161	O	ASP	A	533	-3.003	-1.951	-11.225	1.00188.84	O
ATOM	4162	CB	ASP	A	533	-2.824	-1.698	-8.324	1.00188.75	C
ATOM	4163	CG	ASP	A	533	-2.927	-0.845	-7.077	1.00174.73	C
ATOM	4164	OD1	ASP	A	533	-3.709	0.126	-7.078	1.00175.94	O
ATOM	4165	OD2	ASP	A	533	-2.230	-1.145	-6.090	1.00163.87	O1-
ATOM	4166	N	TYR	A	534	-4.723	-3.348	-10.842	1.00130.26	N
ATOM	4167	CA	TYR	A	534	-4.744	-3.890	-12.204	1.00141.51	C
ATOM	4168	C	TYR	A	534	-6.141	-3.910	-12.836	1.00146.74	C
ATOM	4169	O	TYR	A	534	-6.407	-4.676	-13.759	1.00149.73	O
ATOM	4170	CB	TYR	A	534	-4.101	-5.275	-12.266	1.00135.07	C
ATOM	4171	CG	TYR	A	534	-2.596	-5.223	-12.230	1.00136.35	C
ATOM	4172	CD1	TYR	A	534	-1.929	-5.126	-11.031	1.00127.85	C
ATOM	4173	CD2	TYR	A	534	-1.842	-5.252	-13.389	1.00143.36	C
ATOM	4174	CE1	TYR	A	534	-0.549	-5.072	-10.978	1.00126.72	C
ATOM	4175	CE2	TYR	A	534	-0.455	-5.196	-13.341	1.00133.99	C
ATOM	4176	CZ	TYR	A	534	0.183	-5.106	-12.125	1.00126.35	C
ATOM	4177	OH	TYR	A	534	1.554	-5.043	-12.029	1.00118.62	O
ATOM	4178	N	ASN	A	535	-7.023	-3.053	-12.339	1.00170.72	N
ATOM	4179	CA	ASN	A	535	-8.345	-2.898	-12.919	1.00178.60	C
ATOM	4180	C	ASN	A	535	-8.958	-4.227	-13.326	1.00166.49	C
ATOM	4181	O	ASN	A	535	-9.440	-4.371	-14.450	1.00180.99	O
ATOM	4182	CB	ASN	A	535	-8.284	-1.938	-14.107	1.00189.16	C
ATOM	4183	CG	ASN	A	535	-7.889	-0.530	-13.691	1.00200.80	C
ATOM	4184	ND2	ASN	A	535	-6.858	0.015	-14.329	1.00214.62	N
ATOM	4185	OD1	ASN	A	535	-8.493	0.051	-12.792	1.00196.27	O
ATOM	4186	N	GLN	A	536	-8.907	-5.195	-12.407	1.00185.02	N
ATOM	4187	CA	GLN	A	536	-9.624	-6.470	-12.528	1.00168.96	C
ATOM	4188	C	GLN	A	536	-10.828	-6.477	-11.563	1.00151.34	C
ATOM	4189	O	GLN	A	536	-10.709	-6.046	-10.417	1.00134.88	O
ATOM	4190	CB	GLN	A	536	-8.686	-7.653	-12.236	1.00143.08	C
ATOM	4191	CG	GLN	A	536	-7.572	-7.870	-13.251	1.00153.25	C
ATOM	4192	CD	GLN	A	536	-8.080	-8.447	-14.553	1.00158.00	C
ATOM	4193	NE2	GLN	A	536	-7.165	-8.748	-15.460	1.00162.59	N
ATOM	4194	OE1	GLN	A	536	-9.282	-8.623	-14.741	1.00159.14	O
ATOM	4195	N	THR	A	537	-11.979	-6.962	-12.029	1.00181.32	N
ATOM	4196	CA	THR	A	537	-13.229	-6.891	-11.256	1.00167.59	C
ATOM	4197	C	THR	A	537	-13.308	-7.896	-10.096	1.00138.99	C
ATOM	4198	O	THR	A	537	-13.999	-7.664	-9.106	1.00121.75	O
ATOM	4199	CB	THR	A	537	-14.475	-7.091	-12.159	1.00151.17	C
ATOM	4200	CG2	THR	A	537	-15.715	-6.463	-11.529	1.00136.62	C
ATOM	4201	OG1	THR	A	537	-14.245	-6.515	-13.450	1.00173.97	O
ATOM	4202	N	SER	A	538	-12.624	-9.026	-10.237	1.00186.41	N
ATOM	4203	CA	SER	A	538	-12.535	-10.010	-9.158	1.00160.73	C
ATOM	4204	C	SER	A	538	-11.095	-10.487	-8.954	1.00150.71	C

ATOM	4205	O	SER	A	538	-10.143	-9.845	-9.389	1.00160.76	O
ATOM	4206	CB	SER	A	538	-13.500	-11.192	-9.379	1.00209.89	C
ATOM	4207	OG	SER	A	538	-13.491	-11.661	-10.718	1.00216.86	O
ATOM	4208	N	ALA	A	539	-10.933	-11.611	-8.282	1.00134.00	N
ATOM	4209	CA	ALA	A	539	-9.599	-12.061	-7.958	1.00124.54	C
ATOM	4210	C	ALA	A	539	-9.205	-13.296	-8.767	1.00120.00	C
ATOM	4211	O	ALA	A	539	-8.018	-13.580	-8.930	1.00119.33	O
ATOM	4212	CB	ALA	A	539	-9.497	-12.315	-6.490	1.00 64.04	C
ATOM	4213	N	LYS	A	540	-10.201	-14.022	-9.275	1.00141.27	N
ATOM	4214	CA	LYS	A	540	-9.950	-15.141	-10.181	1.00139.09	C
ATOM	4215	C	LYS	A	540	-9.613	-14.621	-11.577	1.00159.12	C
ATOM	4216	O	LYS	A	540	-8.954	-15.306	-12.363	1.00160.16	O
ATOM	4217	CB	LYS	A	540	-11.149	-16.086	-10.241	1.00271.41	C
ATOM	4218	CG	LYS	A	540	-11.284	-16.974	-9.023	1.00251.04	C
ATOM	4219	CD	LYS	A	540	-12.245	-18.119	-9.284	1.00242.77	C
ATOM	4220	CE	LYS	A	540	-12.179	-19.161	-8.175	1.00223.91	C
ATOM	4221	NZ	LYS	A	540	-12.946	-20.397	-8.513	1.00221.67	N1+
ATOM	4222	N	ASP	A	541	-10.065	-13.405	-11.879	1.00123.48	N
ATOM	4223	CA	ASP	A	541	-9.761	-12.785	-13.163	1.00145.38	C
ATOM	4224	C	ASP	A	541	-8.343	-12.238	-13.107	1.00147.70	C
ATOM	4225	O	ASP	A	541	-7.638	-12.231	-14.113	1.00159.94	O
ATOM	4226	CB	ASP	A	541	-10.774	-11.683	-13.528	1.00189.44	C
ATOM	4227	CG	ASP	A	541	-11.755	-12.111	-14.632	1.00199.89	C
ATOM	4228	OD1	ASP	A	541	-11.484	-13.113	-15.335	1.00191.26	O
ATOM	4229	OD2	ASP	A	541	-12.794	-11.432	-14.804	1.00210.06	O1-
ATOM	4230	N	PHE	A	542	-7.923	-11.797	-11.925	1.00126.97	N
ATOM	4231	CA	PHE	A	542	-6.539	-11.365	-11.717	1.00129.43	C
ATOM	4232	C	PHE	A	542	-5.569	-12.546	-11.784	1.00113.70	C
ATOM	4233	O	PHE	A	542	-4.540	-12.501	-12.462	1.00121.14	O
ATOM	4234	CB	PHE	A	542	-6.389	-10.646	-10.368	1.00125.20	C
ATOM	4235	CG	PHE	A	542	-4.961	-10.266	-10.030	1.00125.20	C
ATOM	4236	CD1	PHE	A	542	-4.637	-8.961	-9.692	1.00133.28	C
ATOM	4237	CD2	PHE	A	542	-3.947	-11.214	-10.040	1.00116.64	C
ATOM	4238	CE1	PHE	A	542	-3.335	-8.612	-9.386	1.00132.79	C
ATOM	4239	CE2	PHE	A	542	-2.646	-10.865	-9.737	1.00116.26	C
ATOM	4240	CZ	PHE	A	542	-2.343	-9.566	-9.410	1.00124.26	C
ATOM	4241	N	LEU	A	543	-5.903	-13.599	-11.059	1.00140.19	N
ATOM	4242	CA	LEU	A	543	-5.018	-14.733	-10.936	1.00124.65	C
ATOM	4243	C	LEU	A	543	-5.008	-15.630	-12.177	1.00131.78	C
ATOM	4244	O	LEU	A	543	-3.979	-16.224	-12.497	1.00130.28	O
ATOM	4245	CB	LEU	A	543	-5.385	-15.527	-9.693	1.00104.87	C
ATOM	4246	CG	LEU	A	543	-5.224	-14.725	-8.408	1.00 98.80	C
ATOM	4247	CD1	LEU	A	543	-6.050	-15.323	-7.289	1.00 83.41	C
ATOM	4248	CD2	LEU	A	543	-3.755	-14.648	-8.029	1.00 95.04	C
ATOM	4249	N	GLU	A	544	-6.134	-15.747	-12.876	1.00137.89	N
ATOM	4250	CA	GLU	A	544	-6.135	-16.524	-14.111	1.00148.95	C
ATOM	4251	C	GLU	A	544	-5.395	-15.716	-15.161	1.00170.95	C
ATOM	4252	O	GLU	A	544	-5.381	-16.066	-16.337	1.00185.31	O
ATOM	4253	CB	GLU	A	544	-7.556	-16.848	-14.568	1.00194.79	C
ATOM	4254	CG	GLU	A	544	-8.070	-18.188	-14.071	1.00174.06	C
ATOM	4255	CD	GLU	A	544	-9.537	-18.405	-14.394	1.00179.80	C
ATOM	4256	OE1	GLU	A	544	-10.262	-17.399	-14.572	1.00194.93	O
ATOM	4257	OE2	GLU	A	544	-9.964	-19.578	-14.472	1.00170.53	O1-
ATOM	4258	N	SER	A	545	-4.764	-14.639	-14.699	1.00123.56	N
ATOM	4259	CA	SER	A	545	-4.138	-13.641	-15.561	1.00141.81	C
ATOM	4260	C	SER	A	545	-2.632	-13.488	-15.327	1.00130.56	C
ATOM	4261	O	SER	A	545	-1.981	-12.657	-15.953	1.00141.98	O
ATOM	4262	CB	SER	A	545	-4.819	-12.289	-15.357	1.00109.97	C
ATOM	4263	OG	SER	A	545	-4.422	-11.373	-16.350	1.00129.32	O
ATOM	4264	N	LEU	A	546	-2.088	-14.275	-14.405	1.00154.49	N
ATOM	4265	CA	LEU	A	546	-0.647	-14.335	-14.195	1.00145.19	C

ATOM	4266	C	LEU	A	546	-0.120	-15.480	-15.032	1.00139.58	C
ATOM	4267	O	LEU	A	546	1.029	-15.879	-14.894	1.00132.62	O
ATOM	4268	CB	LEU	A	546	-0.311	-14.585	-12.722	1.00101.75	C
ATOM	4269	CG	LEU	A	546	-0.952	-13.637	-11.709	1.00108.21	C
ATOM	4270	CD1	LEU	A	546	-0.434	-13.912	-10.320	1.00 88.36	C
ATOM	4271	CD2	LEU	A	546	-0.672	-12.214	-12.100	1.00125.32	C
ATOM	4272	N	ASN	A	547	-0.982	-16.011	-15.895	1.00191.80	N
ATOM	4273	CA	ASN	A	547	-0.622	-17.112	-16.773	1.00190.57	C
ATOM	4274	C	ASN	A	547	0.174	-16.639	-17.978	1.00202.30	C
ATOM	4275	O	ASN	A	547	1.264	-17.140	-18.249	1.00197.62	O
ATOM	4276	CB	ASN	A	547	-1.874	-17.850	-17.250	1.00200.54	C
ATOM	4277	CG	ASN	A	547	-2.038	-19.204	-16.594	1.00180.93	C
ATOM	4278	ND2	ASN	A	547	-2.833	-19.253	-15.531	1.00180.57	N
ATOM	4279	OD1	ASN	A	547	-1.462	-20.196	-17.039	1.00172.34	O
ATOM	4280	N	ASP	A	548	-0.372	-15.661	-18.692	1.00148.42	N
ATOM	4281	CA	ASP	A	548	0.179	-15.262	-19.988	1.00163.30	C
ATOM	4282	C	ASP	A	548	1.573	-14.616	-19.889	1.00161.71	C
ATOM	4283	O	ASP	A	548	1.694	-13.413	-19.674	1.00166.70	O
ATOM	4284	CB	ASP	A	548	-0.826	-14.389	-20.770	1.00191.00	C
ATOM	4285	CG	ASP	A	548	-2.097	-15.165	-21.190	1.00196.26	C
ATOM	4286	OD1	ASP	A	548	-1.987	-16.323	-21.650	1.00184.07	O
ATOM	4287	OD2	ASP	A	548	-3.216	-14.622	-21.061	1.00199.87	O1-
ATOM	4288	N	LYS	A	549	2.606	-15.450	-20.059	1.00156.10	N
ATOM	4289	CA	LYS	A	549	4.032	-15.087	-19.993	1.00154.23	C
ATOM	4290	C	LYS	A	549	4.406	-13.656	-20.414	1.00171.01	C
ATOM	4291	O	LYS	A	549	5.416	-13.113	-19.958	1.00170.04	O
ATOM	4292	CB	LYS	A	549	4.845	-16.087	-20.823	1.00170.45	C
ATOM	4293	CG	LYS	A	549	6.120	-16.588	-20.169	1.00155.39	C
ATOM	4294	CD	LYS	A	549	6.834	-17.577	-21.075	1.00161.79	C
ATOM	4295	CE	LYS	A	549	5.842	-18.568	-21.684	1.00150.42	C
ATOM	4296	NZ	LYS	A	549	6.412	-19.377	-22.816	1.00159.90	N1+
ATOM	4297	N	ASN	A	550	3.617	-13.069	-21.312	1.00181.89	N
ATOM	4298	CA	ASN	A	550	3.758	-11.656	-21.666	1.00201.55	C
ATOM	4299	C	ASN	A	550	2.860	-10.810	-20.768	1.00204.92	C
ATOM	4300	O	ASN	A	550	1.678	-10.603	-21.061	1.00218.07	O
ATOM	4301	CB	ASN	A	550	3.435	-11.410	-23.148	1.00169.05	C
ATOM	4302	CG	ASN	A	550	4.637	-11.642	-24.066	1.00173.32	C
ATOM	4303	ND2	ASN	A	550	4.375	-11.793	-25.367	1.00173.29	N
ATOM	4304	OD1	ASN	A	550	5.783	-11.671	-23.611	1.00169.72	O
ATOM	4305	N	PHE	A	551	3.437	-10.327	-19.670	1.00167.36	N
ATOM	4306	CA	PHE	A	551	2.668	-9.689	-18.609	1.00168.49	C
ATOM	4307	C	PHE	A	551	3.024	-8.212	-18.457	1.00187.10	C
ATOM	4308	O	PHE	A	551	4.200	-7.876	-18.286	1.00185.23	O
ATOM	4309	CB	PHE	A	551	2.918	-10.422	-17.287	1.00157.55	C
ATOM	4310	CG	PHE	A	551	1.988	-10.013	-16.179	1.00156.90	C
ATOM	4311	CD1	PHE	A	551	0.796	-10.681	-15.975	1.00153.53	C
ATOM	4312	CD2	PHE	A	551	2.309	-8.962	-15.338	1.00161.51	C
ATOM	4313	CE1	PHE	A	551	-0.059	-10.304	-14.962	1.00154.77	C
ATOM	4314	CE2	PHE	A	551	1.455	-8.578	-14.323	1.00162.97	C
ATOM	4315	CZ	PHE	A	551	0.271	-9.250	-14.137	1.00159.55	C
ATOM	4316	N	LYS	A	552	2.014	-7.337	-18.518	1.00165.53	N
ATOM	4317	CA	LYS	A	552	2.243	-5.901	-18.335	1.00187.03	C
ATOM	4318	C	LYS	A	552	2.899	-5.680	-16.984	1.00174.76	C
ATOM	4319	O	LYS	A	552	2.685	-6.446	-16.057	1.00155.90	O
ATOM	4320	CB	LYS	A	552	0.942	-5.086	-18.388	1.00155.23	C
ATOM	4321	CG	LYS	A	552	-0.302	-5.804	-18.903	1.00158.34	C
ATOM	4322	CD	LYS	A	552	-1.524	-4.885	-18.763	1.00186.48	C
ATOM	4323	CE	LYS	A	552	-2.773	-5.443	-19.436	1.00202.77	C
ATOM	4324	NZ	LYS	A	552	-3.906	-4.477	-19.366	1.00234.33	N1+
ATOM	4325	N	PHE	A	553	3.697	-4.634	-16.852	1.00211.03	N
ATOM	4326	CA	PHE	A	553	4.285	-4.369	-15.551	1.00203.11	C

ATOM	4327	C	PHE	A	553	4.276	-2.881	-15.192	1.00229.72	C
ATOM	4328	O	PHE	A	553	5.244	-2.154	-15.437	1.00244.00	O
ATOM	4329	CB	PHE	A	553	5.673	-5.012	-15.428	1.00201.10	C
ATOM	4330	CG	PHE	A	553	5.647	-6.416	-14.852	1.00164.03	C
ATOM	4331	CD1	PHE	A	553	6.071	-7.504	-15.599	1.00161.41	C
ATOM	4332	CD2	PHE	A	553	5.191	-6.642	-13.555	1.00150.65	C
ATOM	4333	CE1	PHE	A	553	6.049	-8.790	-15.054	1.00129.71	C
ATOM	4334	CE2	PHE	A	553	5.167	-7.922	-13.010	1.00126.86	C
ATOM	4335	CZ	PHE	A	553	5.595	-8.994	-13.758	1.00116.80	C
ATOM	4336	N	ASP	A	554	3.154	-2.451	-14.613	1.00176.91	N
ATOM	4337	CA	ASP	A	554	2.950	-1.071	-14.182	1.00204.05	C
ATOM	4338	C	ASP	A	554	3.697	-0.786	-12.878	1.00197.85	C
ATOM	4339	O	ASP	A	554	3.869	0.371	-12.497	1.00221.27	O
ATOM	4340	CB	ASP	A	554	1.455	-0.774	-13.997	1.00193.04	C
ATOM	4341	CG	ASP	A	554	0.612	-1.181	-15.205	1.00200.63	C
ATOM	4342	OD1	ASP	A	554	-0.623	-1.319	-15.056	1.00203.70	O
ATOM	4343	OD2	ASP	A	554	1.179	-1.369	-16.303	1.00204.85	O1-
ATOM	4344	N	THR	A	555	4.135	-1.846	-12.202	1.00192.97	N
ATOM	4345	CA	THR	A	555	4.867	-1.734	-10.934	1.00184.54	C
ATOM	4346	C	THR	A	555	6.351	-2.120	-11.079	1.00173.78	C
ATOM	4347	O	THR	A	555	6.682	-3.160	-11.636	1.00159.71	O
ATOM	4348	CB	THR	A	555	4.170	-2.555	-9.814	1.00177.83	C
ATOM	4349	CG2	THR	A	555	2.854	-1.895	-9.418	1.00189.88	C
ATOM	4350	OG1	THR	A	555	3.893	-3.886	-10.275	1.00154.67	O
ATOM	4351	N	ASN	A	556	7.244	-1.275	-10.579	1.00177.05	N
ATOM	4352	CA	ASN	A	556	8.664	-1.401	-10.911	1.00175.22	C
ATOM	4353	C	ASN	A	556	9.431	-2.497	-10.164	1.00147.73	C
ATOM	4354	O	ASN	A	556	9.005	-2.946	-9.090	1.00131.54	O
ATOM	4355	CB	ASN	A	556	9.380	-0.052	-10.750	1.00180.55	C
ATOM	4356	CG	ASN	A	556	9.027	0.937	-11.850	1.00209.48	C
ATOM	4357	ND2	ASN	A	556	9.036	2.224	-11.516	1.00227.96	N
ATOM	4358	OD1	ASN	A	556	8.755	0.549	-12.986	1.00206.28	O
ATOM	4359	N	LYS	A	557	10.565	-2.898	-10.756	1.00181.25	N
ATOM	4360	CA	LYS	A	557	11.493	-3.900	-10.209	1.00160.36	C
ATOM	4361	C	LYS	A	557	12.534	-3.244	-9.309	1.00167.49	C
ATOM	4362	O	LYS	A	557	13.347	-2.450	-9.783	1.00188.10	O
ATOM	4363	CB	LYS	A	557	12.205	-4.652	-11.345	1.00216.56	C
ATOM	4364	CG	LYS	A	557	11.302	-5.574	-12.166	1.00202.45	C
ATOM	4365	CD	LYS	A	557	11.608	-5.535	-13.676	1.00212.25	C
ATOM	4366	CE	LYS	A	557	12.867	-6.314	-14.052	1.00211.65	C
ATOM	4367	NZ	LYS	A	557	13.064	-6.389	-15.532	1.00221.46	N1+
ATOM	4368	N	THR	A	558	12.514	-3.591	-8.020	1.00139.28	N
ATOM	4369	CA	THR	A	558	13.317	-2.898	-6.998	1.00146.11	C
ATOM	4370	C	THR	A	558	14.477	-3.729	-6.402	1.00131.97	C
ATOM	4371	O	THR	A	558	15.450	-3.178	-5.869	1.00142.88	O
ATOM	4372	CB	THR	A	558	12.416	-2.384	-5.845	1.00137.67	C
ATOM	4373	CG2	THR	A	558	11.269	-1.549	-6.384	1.00153.28	C
ATOM	4374	OG1	THR	A	558	11.872	-3.498	-5.129	1.00112.70	O
ATOM	4375	N	ARG	A	559	14.363	-5.049	-6.509	1.00155.54	N
ATOM	4376	CA	ARG	A	559	15.319	-5.981	-5.920	1.00141.44	C
ATOM	4377	C	ARG	A	559	15.119	-7.358	-6.567	1.00123.52	C
ATOM	4378	O	ARG	A	559	14.045	-7.635	-7.103	1.00116.22	O
ATOM	4379	CB	ARG	A	559	15.080	-6.063	-4.411	1.00140.27	C
ATOM	4380	CG	ARG	A	559	13.586	-6.106	-4.025	1.00129.84	C
ATOM	4381	CD	ARG	A	559	13.355	-6.159	-2.520	1.00123.80	C
ATOM	4382	NE	ARG	A	559	13.837	-4.966	-1.824	1.00141.26	N
ATOM	4383	CZ	ARG	A	559	13.207	-3.793	-1.814	1.00156.16	C
ATOM	4384	NH1	ARG	A	559	12.070	-3.643	-2.476	1.00158.87	N1+
ATOM	4385	NH2	ARG	A	559	13.720	-2.764	-1.151	1.00168.14	N
ATOM	4386	N	ASP	A	560	16.134	-8.219	-6.529	1.00147.05	N
ATOM	4387	CA	ASP	A	560	16.006	-9.552	-7.128	1.00132.38	C

ATOM	4388	C	ASP	A	560	15.265	-10.545	-6.217	1.00112.06	C
ATOM	4389	O	ASP	A	560	15.437	-10.533	-5.000	1.00108.41	O
ATOM	4390	CB	ASP	A	560	17.373	-10.093	-7.554	1.00148.07	C
ATOM	4391	CG	ASP	A	560	17.740	-9.692	-8.977	1.00165.36	C
ATOM	4392	OD1	ASP	A	560	16.820	-9.384	-9.770	1.00168.86	O
ATOM	4393	OD2	ASP	A	560	18.945	-9.691	-9.309	1.00177.16	O1-
ATOM	4394	N	VAL	A	561	14.432	-11.399	-6.807	1.00144.91	N
ATOM	4395	CA	VAL	A	561	13.600	-12.325	-6.042	1.00126.15	C
ATOM	4396	C	VAL	A	561	14.075	-13.754	-6.228	1.00116.94	C
ATOM	4397	O	VAL	A	561	14.413	-14.141	-7.333	1.00121.60	O
ATOM	4398	CB	VAL	A	561	12.142	-12.266	-6.528	1.00 99.93	C
ATOM	4399	CG1	VAL	A	561	11.279	-13.223	-5.743	1.00 82.02	C
ATOM	4400	CG2	VAL	A	561	11.604	-10.858	-6.431	1.00107.04	C
ATOM	4401	N	TYR	A	562	14.087	-14.550	-5.166	1.00139.50	N
ATOM	4402	CA	TYR	A	562	14.454	-15.959	-5.302	1.00129.85	C
ATOM	4403	C	TYR	A	562	13.290	-16.900	-4.982	1.00116.39	C
ATOM	4404	O	TYR	A	562	12.181	-16.466	-4.692	1.00112.36	O
ATOM	4405	CB	TYR	A	562	15.647	-16.302	-4.410	1.00 98.70	C
ATOM	4406	CG	TYR	A	562	16.910	-15.512	-4.686	1.00111.93	C
ATOM	4407	CD1	TYR	A	562	16.868	-14.135	-4.868	1.00122.35	C
ATOM	4408	CD2	TYR	A	562	18.155	-16.138	-4.737	1.00114.75	C
ATOM	4409	CE1	TYR	A	562	18.029	-13.404	-5.113	1.00136.01	C
ATOM	4410	CE2	TYR	A	562	19.317	-15.410	-4.981	1.00127.99	C
ATOM	4411	CZ	TYR	A	562	19.241	-14.044	-5.167	1.00138.75	C
ATOM	4412	OH	TYR	A	562	20.370	-13.303	-5.404	1.00154.10	O
ATOM	4413	N	ILE	A	563	13.551	-18.198	-5.052	1.00115.19	N
ATOM	4414	CA	ILE	A	563	12.603	-19.209	-4.613	1.00102.76	C
ATOM	4415	C	ILE	A	563	13.374	-20.426	-4.150	1.00 96.97	C
ATOM	4416	O	ILE	A	563	14.123	-21.030	-4.934	1.00100.90	O
ATOM	4417	CB	ILE	A	563	11.679	-19.666	-5.728	1.00 72.84	C
ATOM	4418	CG1	ILE	A	563	10.848	-18.512	-6.256	1.00 88.48	C
ATOM	4419	CG2	ILE	A	563	10.730	-20.716	-5.215	1.00 71.20	C
ATOM	4420	CD1	ILE	A	563	9.900	-18.944	-7.336	1.00 76.54	C
ATOM	4421	N	TYR	A	564	13.186	-20.767	-2.878	1.00104.72	N
ATOM	4422	CA	TYR	A	564	13.860	-21.882	-2.229	1.00101.86	C
ATOM	4423	C	TYR	A	564	12.952	-23.098	-2.248	1.00 99.74	C
ATOM	4424	O	TYR	A	564	11.818	-23.033	-1.767	1.00 94.74	O
ATOM	4425	CB	TYR	A	564	14.181	-21.489	-0.792	1.00110.25	C
ATOM	4426	CG	TYR	A	564	14.811	-22.561	0.078	1.00110.92	C
ATOM	4427	CD1	TYR	A	564	16.146	-22.934	-0.071	1.00117.08	C
ATOM	4428	CD2	TYR	A	564	14.086	-23.156	1.094	1.00106.27	C
ATOM	4429	CE1	TYR	A	564	16.723	-23.899	0.755	1.00118.70	C
ATOM	4430	CE2	TYR	A	564	14.653	-24.113	1.920	1.00108.00	C
ATOM	4431	CZ	TYR	A	564	15.963	-24.481	1.748	1.00114.30	C
ATOM	4432	OH	TYR	A	564	16.484	-25.438	2.584	1.00116.87	O
ATOM	4433	N	MET	A	565	13.439	-24.198	-2.818	1.00107.85	N
ATOM	4434	CA	MET	A	565	12.628	-25.409	-2.949	1.00107.22	C
ATOM	4435	C	MET	A	565	13.403	-26.657	-2.566	1.00111.50	C
ATOM	4436	O	MET	A	565	14.018	-27.289	-3.418	1.00117.88	O
ATOM	4437	CB	MET	A	565	12.087	-25.534	-4.371	1.00 95.46	C
ATOM	4438	CG	MET	A	565	11.151	-24.404	-4.738	1.00 93.44	C
ATOM	4439	SD	MET	A	565	10.771	-24.333	-6.488	1.00102.70	S
ATOM	4440	CE	MET	A	565	12.192	-25.201	-7.108	1.00111.47	C
ATOM	4441	N	PRO	A	566	13.363	-27.010	-1.277	1.00 99.88	N
ATOM	4442	CA	PRO	A	566	14.103	-28.041	-0.544	1.00104.24	C
ATOM	4443	C	PRO	A	566	13.323	-29.324	-0.461	1.00104.16	C
ATOM	4444	O	PRO	A	566	12.102	-29.267	-0.516	1.00 98.96	O
ATOM	4445	CB	PRO	A	566	14.149	-27.460	0.841	1.00 77.95	C
ATOM	4446	CG	PRO	A	566	12.804	-26.795	0.952	1.00 71.27	C
ATOM	4447	CD	PRO	A	566	12.496	-26.234	-0.385	1.00 71.95	C
ATOM	4448	N	TYR	A	567	13.990	-30.458	-0.304	1.00 98.25	N

ATOM	4449	CA	TYR	A	567	13.267	-31.709	-0.375	1.00100.41	C
ATOM	4450	C	TYR	A	567	12.312	-31.737	0.771	1.00 93.58	C
ATOM	4451	O	TYR	A	567	11.182	-32.161	0.630	1.00 91.98	O
ATOM	4452	CB	TYR	A	567	14.210	-32.893	-0.309	1.00 80.82	C
ATOM	4453	CG	TYR	A	567	13.563	-34.249	-0.076	1.00 95.35	C
ATOM	4454	CD1	TYR	A	567	13.330	-35.127	-1.118	1.00101.35	C
ATOM	4455	CD2	TYR	A	567	13.230	-34.670	1.194	1.00 93.61	C
ATOM	4456	CE1	TYR	A	567	12.770	-36.369	-0.897	1.00106.88	C
ATOM	4457	CE2	TYR	A	567	12.669	-35.917	1.420	1.00 96.33	C
ATOM	4458	CZ	TYR	A	567	12.446	-36.756	0.373	1.00106.09	C
ATOM	4459	OH	TYR	A	567	11.889	-37.986	0.612	1.00110.03	O
ATOM	4460	N	ARG	A	568	12.756	-31.245	1.911	1.00125.75	N
ATOM	4461	CA	ARG	A	568	11.945	-31.318	3.115	1.00119.46	C
ATOM	4462	C	ARG	A	568	10.492	-30.868	2.940	1.00113.44	C
ATOM	4463	O	ARG	A	568	9.599	-31.442	3.548	1.00111.42	O
ATOM	4464	CB	ARG	A	568	12.596	-30.527	4.236	1.00126.34	C
ATOM	4465	CG	ARG	A	568	11.742	-30.388	5.462	1.00118.64	C
ATOM	4466	CD	ARG	A	568	12.381	-29.360	6.314	1.00114.15	C
ATOM	4467	NE	ARG	A	568	13.805	-29.589	6.252	1.00119.14	N
ATOM	4468	CZ	ARG	A	568	14.479	-30.183	7.219	1.00116.75	C
ATOM	4469	NH1	ARG	A	568	13.835	-30.556	8.317	1.00107.37	N1+
ATOM	4470	NH2	ARG	A	568	15.786	-30.382	7.099	1.00121.68	N
ATOM	4471	N	MET	A	569	10.242	-29.853	2.121	1.00107.77	N
ATOM	4472	CA	MET	A	569	8.884	-29.345	1.973	1.00102.19	C
ATOM	4473	C	MET	A	569	7.937	-30.314	1.287	1.00104.57	C
ATOM	4474	O	MET	A	569	6.806	-29.945	0.999	1.00102.14	O
ATOM	4475	CB	MET	A	569	8.870	-28.034	1.190	1.00112.08	C
ATOM	4476	CG	MET	A	569	7.510	-27.346	1.191	1.00108.13	C
ATOM	4477	SD	MET	A	569	7.365	-25.929	0.092	1.00109.37	S
ATOM	4478	CE	MET	A	569	6.425	-26.602	-1.267	1.00112.14	C
ATOM	4479	N	LEU	A	570	8.372	-31.540	0.996	1.00 94.55	N
ATOM	4480	CA	LEU	A	570	7.483	-32.458	0.272	1.00 98.60	C
ATOM	4481	C	LEU	A	570	6.331	-32.931	1.133	1.00 96.29	C
ATOM	4482	O	LEU	A	570	5.209	-32.897	0.678	1.00 96.25	O
ATOM	4483	CB	LEU	A	570	8.225	-33.646	-0.371	1.00 96.95	C
ATOM	4484	CG	LEU	A	570	8.419	-33.713	-1.904	1.00113.60	C
ATOM	4485	CD1	LEU	A	570	8.968	-35.076	-2.320	1.00124.15	C
ATOM	4486	CD2	LEU	A	570	7.149	-33.404	-2.686	1.00112.34	C
ATOM	4487	N	ARG	A	571	6.591	-33.346	2.372	1.00123.35	N
ATOM	4488	CA	ARG	A	571	5.525	-33.913	3.210	1.00122.04	C
ATOM	4489	C	ARG	A	571	4.352	-32.949	3.406	1.00115.43	C
ATOM	4490	O	ARG	A	571	3.217	-33.366	3.652	1.00115.91	O
ATOM	4491	CB	ARG	A	571	6.078	-34.406	4.552	1.00186.11	C
ATOM	4492	CG	ARG	A	571	6.630	-33.326	5.426	1.00182.40	C
ATOM	4493	CD	ARG	A	571	7.162	-33.882	6.725	1.00196.35	C
ATOM	4494	NE	ARG	A	571	7.598	-32.784	7.577	1.00193.68	N
ATOM	4495	CZ	ARG	A	571	8.339	-32.918	8.670	1.00186.31	C
ATOM	4496	NH1	ARG	A	571	8.739	-34.120	9.056	1.00181.79	N1+
ATOM	4497	NH2	ARG	A	571	8.684	-31.846	9.377	1.00183.82	N
ATOM	4498	N	ILE	A	572	4.661	-31.667	3.224	1.00 87.95	N
ATOM	4499	CA	ILE	A	572	3.777	-30.514	3.421	1.00 81.95	C
ATOM	4500	C	ILE	A	572	3.097	-29.977	2.132	1.00 82.68	C
ATOM	4501	O	ILE	A	572	2.185	-29.162	2.197	1.00 79.49	O
ATOM	4502	CB	ILE	A	572	4.617	-29.372	4.030	1.00 94.19	C
ATOM	4503	CG1	ILE	A	572	5.269	-29.830	5.306	1.00 94.14	C
ATOM	4504	CG2	ILE	A	572	3.819	-28.141	4.309	1.00 90.22	C
ATOM	4505	CD1	ILE	A	572	6.027	-28.704	5.955	1.00 90.92	C
ATOM	4506	N	MET	A	573	3.535	-30.421	0.963	1.00121.94	N
ATOM	4507	CA	MET	A	573	2.938	-29.946	-0.281	1.00123.47	C
ATOM	4508	C	MET	A	573	1.392	-29.860	-0.277	1.00123.14	C
ATOM	4509	O	MET	A	573	0.843	-28.868	-0.756	1.00121.13	O

ATOM	4510	CB	MET	A	573	3.489	-30.740	-1.478	1.00140.07	C
ATOM	4511	CG	MET	A	573	4.604	-30.044	-2.228	1.00140.62	C
ATOM	4512	SD	MET	A	573	3.990	-28.632	-3.142	1.00149.79	S
ATOM	4513	CE	MET	A	573	2.695	-29.442	-4.052	1.00156.42	C
ATOM	4514	N	PRO	A	574	0.688	-30.867	0.282	1.00131.84	N
ATOM	4515	CA	PRO	A	574	-0.770	-30.754	0.358	1.00132.52	C
ATOM	4516	C	PRO	A	574	-1.190	-29.515	1.156	1.00125.62	C
ATOM	4517	O	PRO	A	574	-1.890	-28.595	0.670	1.00124.13	O
ATOM	4518	CB	PRO	A	574	-1.162	-32.002	1.150	1.00112.90	C
ATOM	4519	CG	PRO	A	574	-0.037	-32.929	0.990	1.00126.03	C
ATOM	4520	CD	PRO	A	574	1.154	-32.061	0.996	1.00122.94	C
ATOM	4521	N	VAL	A	575	-0.744	-29.505	2.409	1.00103.06	N
ATOM	4522	CA	VAL	A	575	-1.010	-28.429	3.359	1.00 97.34	C
ATOM	4523	C	VAL	A	575	-0.626	-27.047	2.835	1.00 94.45	C
ATOM	4524	O	VAL	A	575	-1.344	-26.076	3.047	1.00 92.53	O
ATOM	4525	CB	VAL	A	575	-0.293	-28.693	4.666	1.00 66.38	C
ATOM	4526	CG1	VAL	A	575	-0.817	-27.801	5.744	1.00 72.66	C
ATOM	4527	CG2	VAL	A	575	-0.479	-30.141	5.079	1.00 70.68	C
ATOM	4528	N	VAL	A	576	0.506	-26.951	2.157	1.00 82.47	N
ATOM	4529	CA	VAL	A	576	0.913	-25.698	1.552	1.00 81.20	C
ATOM	4530	C	VAL	A	576	0.003	-25.279	0.401	1.00 83.93	C
ATOM	4531	O	VAL	A	576	-0.357	-24.120	0.256	1.00 82.62	O
ATOM	4532	CB	VAL	A	576	2.346	-25.821	1.051	1.00 74.58	C
ATOM	4533	CG1	VAL	A	576	2.651	-24.692	0.079	1.00 74.96	C
ATOM	4534	CG2	VAL	A	576	3.289	-25.806	2.214	1.00 73.01	C
ATOM	4535	N	ALA	A	577	-0.354	-26.244	-0.430	1.00112.44	N
ATOM	4536	CA	ALA	A	577	-1.185	-25.947	-1.586	1.00116.71	C
ATOM	4537	C	ALA	A	577	-2.578	-25.498	-1.194	1.00116.67	C
ATOM	4538	O	ALA	A	577	-3.182	-24.681	-1.886	1.00118.20	O
ATOM	4539	CB	ALA	A	577	-1.257	-27.135	-2.488	1.00164.91	C
ATOM	4540	N	GLN	A	578	-3.097	-26.067	-0.101	1.00131.54	N
ATOM	4541	CA	GLN	A	578	-4.468	-25.735	0.318	1.00133.09	C
ATOM	4542	C	GLN	A	578	-4.726	-24.237	0.279	1.00131.43	C
ATOM	4543	O	GLN	A	578	-5.778	-23.806	-0.165	1.00135.12	O
ATOM	4544	CB	GLN	A	578	-4.758	-26.269	1.714	1.00149.23	C
ATOM	4545	CG	GLN	A	578	-5.115	-27.728	1.773	1.00161.02	C
ATOM	4546	CD	GLN	A	578	-5.237	-28.206	3.197	1.00158.55	C
ATOM	4547	NE2	GLN	A	578	-5.517	-29.491	3.378	1.00163.07	N
ATOM	4548	OE1	GLN	A	578	-5.075	-27.426	4.129	1.00153.24	O
ATOM	4549	N	PHE	A	579	-3.751	-23.449	0.723	1.00109.73	N
ATOM	4550	CA	PHE	A	579	-3.928	-22.007	0.899	1.00109.19	C
ATOM	4551	C	PHE	A	579	-4.226	-21.244	-0.380	1.00113.68	C
ATOM	4552	O	PHE	A	579	-5.057	-20.345	-0.366	1.00116.10	O
ATOM	4553	CB	PHE	A	579	-2.707	-21.388	1.573	1.00 88.96	C
ATOM	4554	CG	PHE	A	579	-2.612	-21.685	3.023	1.00 85.36	C
ATOM	4555	CD1	PHE	A	579	-2.063	-22.860	3.455	1.00 83.63	C
ATOM	4556	CD2	PHE	A	579	-3.074	-20.788	3.957	1.00 84.39	C
ATOM	4557	CE1	PHE	A	579	-1.990	-23.144	4.793	1.00 81.15	C
ATOM	4558	CE2	PHE	A	579	-2.997	-21.071	5.304	1.00 79.37	C
ATOM	4559	CZ	PHE	A	579	-2.460	-22.249	5.719	1.00 80.03	C
ATOM	4560	N	ALA	A	580	-3.528	-21.571	-1.466	1.00 86.54	N
ATOM	4561	CA	ALA	A	580	-3.809	-20.961	-2.758	1.00 92.13	C
ATOM	4562	C	ALA	A	580	-5.012	-21.667	-3.365	1.00 97.75	C
ATOM	4563	O	ALA	A	580	-5.767	-21.102	-4.161	1.00105.63	O
ATOM	4564	CB	ALA	A	580	-2.617	-21.073	-3.670	1.00 87.56	C
ATOM	4565	N	ASN	A	581	-5.203	-22.920	-2.990	1.00151.21	N
ATOM	4566	CA	ASN	A	581	-6.414	-23.616	-3.398	1.00158.29	C
ATOM	4567	C	ASN	A	581	-7.668	-22.891	-2.925	1.00160.11	C
ATOM	4568	O	ASN	A	581	-8.742	-23.052	-3.485	1.00167.26	O
ATOM	4569	CB	ASN	A	581	-6.420	-25.046	-2.871	1.00123.14	C
ATOM	4570	CG	ASN	A	581	-6.997	-26.014	-3.856	1.00131.65	C

ATOM	4571	ND2	ASN	A	581	-7.491	-27.139	-3.361	1.00137.39	N
ATOM	4572	OD1	ASN	A	581	-6.996	-25.761	-5.052	1.00134.62	O
ATOM	4573	N	THR	A	582	-7.522	-22.097	-1.878	1.00120.76	N
ATOM	4574	CA	THR	A	582	-8.650	-21.400	-1.290	1.00123.14	C
ATOM	4575	C	THR	A	582	-8.860	-20.049	-1.933	1.00127.93	C
ATOM	4576	O	THR	A	582	-8.157	-19.082	-1.607	1.00124.93	O
ATOM	4577	CB	THR	A	582	-8.420	-21.172	0.179	1.00121.51	C
ATOM	4578	CG2	THR	A	582	-9.283	-20.047	0.668	1.00121.57	C
ATOM	4579	OG1	THR	A	582	-8.762	-22.364	0.887	1.00120.32	O
ATOM	4580	N	ASN	A	583	-9.841	-19.979	-2.831	1.00113.37	N
ATOM	4581	CA	ASN	A	583	-10.043	-18.793	-3.670	1.00121.60	C
ATOM	4582	C	ASN	A	583	-10.352	-17.505	-2.901	1.00124.43	C
ATOM	4583	O	ASN	A	583	-11.435	-17.356	-2.329	1.00126.78	O
ATOM	4584	CB	ASN	A	583	-11.104	-19.066	-4.737	1.00171.59	C
ATOM	4585	CG	ASN	A	583	-11.952	-17.851	-5.041	1.00179.36	C
ATOM	4586	ND2	ASN	A	583	-11.366	-16.878	-5.728	1.00184.07	N
ATOM	4587	OD1	ASN	A	583	-13.124	-17.785	-4.656	1.00183.14	O
ATOM	4588	N	PRO	A	584	-9.391	-16.567	-2.893	1.00151.78	N
ATOM	4589	CA	PRO	A	584	-9.477	-15.339	-2.103	1.00149.55	C
ATOM	4590	C	PRO	A	584	-10.812	-14.624	-2.241	1.00153.83	C
ATOM	4591	O	PRO	A	584	-11.156	-13.816	-1.388	1.00149.06	O
ATOM	4592	CB	PRO	A	584	-8.351	-14.474	-2.679	1.00154.56	C
ATOM	4593	CG	PRO	A	584	-7.919	-15.154	-3.933	1.00158.23	C
ATOM	4594	CD	PRO	A	584	-8.170	-16.592	-3.708	1.00150.50	C
ATOM	4595	N	ASP	A	585	-11.554	-14.924	-3.297	1.00137.05	N
ATOM	4596	CA	ASP	A	585	-12.824	-14.252	-3.547	1.00144.32	C
ATOM	4597	C	ASP	A	585	-13.949	-14.790	-2.680	1.00141.98	C
ATOM	4598	O	ASP	A	585	-14.882	-14.062	-2.353	1.00143.39	O
ATOM	4599	CB	ASP	A	585	-13.225	-14.398	-5.018	1.00144.04	C
ATOM	4600	CG	ASP	A	585	-12.941	-13.156	-5.834	1.00149.48	C
ATOM	4601	OD1	ASP	A	585	-13.089	-12.038	-5.292	1.00146.40	O
ATOM	4602	OD2	ASP	A	585	-12.579	-13.303	-7.022	1.00153.81	O1-
ATOM	4603	N	ASN	A	586	-13.867	-16.067	-2.317	1.00156.37	N
ATOM	4604	CA	ASN	A	586	-15.017	-16.723	-1.714	1.00162.88	C
ATOM	4605	C	ASN	A	586	-14.789	-17.882	-0.748	1.00156.09	C
ATOM	4606	O	ASN	A	586	-15.677	-18.708	-0.581	1.00158.58	O
ATOM	4607	CB	ASN	A	586	-15.963	-17.180	-2.808	1.00180.06	C
ATOM	4608	CG	ASN	A	586	-17.370	-16.755	-2.536	1.00191.46	C
ATOM	4609	ND2	ASN	A	586	-18.293	-17.174	-3.394	1.00198.65	N
ATOM	4610	OD1	ASN	A	586	-17.632	-16.045	-1.561	1.00193.73	O
ATOM	4611	N	GLY	A	587	-13.625	-17.938	-0.107	1.00135.35	N
ATOM	4612	CA	GLY	A	587	-13.322	-18.990	0.856	1.00129.15	C
ATOM	4613	C	GLY	A	587	-13.200	-20.407	0.298	1.00127.45	C
ATOM	4614	O	GLY	A	587	-12.442	-21.232	0.831	1.00124.70	O
ATOM	4615	N	GLU	A	588	-13.942	-20.685	-0.777	1.00170.62	N
ATOM	4616	CA	GLU	A	588	-14.080	-22.038	-1.318	1.00171.44	C
ATOM	4617	C	GLU	A	588	-12.756	-22.630	-1.776	1.00163.98	C
ATOM	4618	O	GLU	A	588	-11.867	-21.909	-2.221	1.00160.30	O
ATOM	4619	CB	GLU	A	588	-15.104	-22.061	-2.458	1.00176.22	C
ATOM	4620	CG	GLU	A	588	-16.511	-21.598	-2.059	1.00184.25	C
ATOM	4621	CD	GLU	A	588	-17.194	-22.511	-1.028	1.00190.03	C
ATOM	4622	OE1	GLU	A	588	-16.550	-23.468	-0.552	1.00188.40	O
ATOM	4623	OE2	GLU	A	588	-18.381	-22.281	-0.699	1.00196.94	O1-
ATOM	4624	N	GLN	A	589	-12.619	-23.944	-1.642	1.00129.49	N
ATOM	4625	CA	GLN	A	589	-11.433	-24.612	-2.141	1.00124.47	C
ATOM	4626	C	GLN	A	589	-11.640	-24.880	-3.603	1.00132.89	C
ATOM	4627	O	GLN	A	589	-12.628	-25.494	-3.982	1.00143.72	O
ATOM	4628	CB	GLN	A	589	-11.168	-25.916	-1.406	1.00184.99	C
ATOM	4629	CG	GLN	A	589	-10.425	-25.714	-0.116	1.00175.57	C
ATOM	4630	CD	GLN	A	589	-9.617	-26.922	0.285	1.00172.63	C
ATOM	4631	NE2	GLN	A	589	-10.103	-27.649	1.284	1.00173.30	N

ATOM	4632	OE1	GLN	A	589	-8.560	-27.198	-0.288	1.00170.48	O
ATOM	4633	N	GLU	A	590	-10.725	-24.385	-4.425	1.00141.38	N
ATOM	4634	CA	GLU	A	590	-10.779	-24.602	-5.863	1.00147.37	C
ATOM	4635	C	GLU	A	590	-10.835	-26.104	-6.169	1.00151.32	C
ATOM	4636	O	GLU	A	590	-11.921	-26.674	-6.241	1.00161.96	O
ATOM	4637	CB	GLU	A	590	-9.583	-23.925	-6.566	1.00201.75	C
ATOM	4638	CG	GLU	A	590	-9.645	-22.381	-6.628	1.00201.16	C
ATOM	4639	CD	GLU	A	590	-8.307	-21.720	-7.001	1.00193.07	C
ATOM	4640	OE1	GLU	A	590	-7.297	-22.434	-7.179	1.00187.17	O
ATOM	4641	OE2	GLU	A	590	-8.267	-20.476	-7.111	1.00193.26	O1-
ATOM	4642	N	LYS	A	591	-9.673	-26.745	-6.311	1.00155.14	N
ATOM	4643	CA	LYS	A	591	-9.593	-28.125	-6.811	1.00159.30	C
ATOM	4644	C	LYS	A	591	-9.748	-29.225	-5.759	1.00161.89	C
ATOM	4645	O	LYS	A	591	-10.159	-28.971	-4.637	1.00158.59	O
ATOM	4646	CB	LYS	A	591	-8.297	-28.327	-7.600	1.00169.00	C
ATOM	4647	CG	LYS	A	591	-8.050	-27.248	-8.635	1.00166.92	C
ATOM	4648	CD	LYS	A	591	-6.966	-27.644	-9.608	1.00159.38	C
ATOM	4649	CE	LYS	A	591	-6.884	-26.653	-10.750	1.00159.27	C
ATOM	4650	NZ	LYS	A	591	-6.418	-27.302	-12.002	1.00156.30	N1+
ATOM	4651	N	SER	A	592	-9.419	-30.452	-6.140	1.00155.36	N
ATOM	4652	CA	SER	A	592	-9.621	-31.607	-5.271	1.00158.00	C
ATOM	4653	C	SER	A	592	-8.450	-31.837	-4.329	1.00147.43	C
ATOM	4654	O	SER	A	592	-8.642	-32.089	-3.141	1.00147.44	O
ATOM	4655	CB	SER	A	592	-9.860	-32.872	-6.101	1.00162.97	C
ATOM	4656	OG	SER	A	592	-8.800	-33.122	-7.016	1.00139.85	O
ATOM	4657	N	LEU	A	593	-7.240	-31.763	-4.879	1.00164.73	N
ATOM	4658	CA	LEU	A	593	-6.001	-32.014	-4.138	1.00151.58	C
ATOM	4659	C	LEU	A	593	-5.880	-33.425	-3.552	1.00151.38	C
ATOM	4660	O	LEU	A	593	-6.288	-33.689	-2.417	1.00154.36	O
ATOM	4661	CB	LEU	A	593	-5.767	-30.941	-3.069	1.00136.25	C
ATOM	4662	CG	LEU	A	593	-5.117	-29.673	-3.620	1.00129.32	C
ATOM	4663	CD1	LEU	A	593	-3.925	-29.301	-2.775	1.00118.27	C
ATOM	4664	CD2	LEU	A	593	-4.703	-29.884	-5.078	1.00125.97	C
ATOM	4665	N	PHE	A	594	-5.315	-34.323	-4.353	1.00144.79	N
ATOM	4666	CA	PHE	A	594	-4.996	-35.671	-3.924	1.00143.95	C
ATOM	4667	C	PHE	A	594	-3.496	-35.751	-3.983	1.00128.84	C
ATOM	4668	O	PHE	A	594	-2.926	-35.576	-5.044	1.00124.04	O
ATOM	4669	CB	PHE	A	594	-5.593	-36.691	-4.891	1.00169.24	C
ATOM	4670	CG	PHE	A	594	-5.437	-38.121	-4.446	1.00157.89	C
ATOM	4671	CD1	PHE	A	594	-6.317	-39.095	-4.886	1.00172.89	C
ATOM	4672	CD2	PHE	A	594	-4.419	-38.493	-3.589	1.00145.21	C
ATOM	4673	CE1	PHE	A	594	-6.183	-40.412	-4.475	1.00175.18	C
ATOM	4674	CE2	PHE	A	594	-4.278	-39.808	-3.176	1.00147.28	C
ATOM	4675	CZ	PHE	A	594	-5.160	-40.765	-3.618	1.00162.28	C
ATOM	4676	N	PHE	A	595	-2.857	-36.006	-2.847	1.00159.56	N
ATOM	4677	CA	PHE	A	595	-1.399	-36.059	-2.774	1.00145.80	C
ATOM	4678	C	PHE	A	595	-0.953	-36.962	-1.636	1.00142.75	C
ATOM	4679	O	PHE	A	595	-1.658	-37.085	-0.649	1.00148.22	O
ATOM	4680	CB	PHE	A	595	-0.837	-34.663	-2.538	1.00149.56	C
ATOM	4681	CG	PHE	A	595	0.633	-34.645	-2.268	1.00135.61	C
ATOM	4682	CD1	PHE	A	595	1.499	-34.025	-3.142	1.00129.01	C
ATOM	4683	CD2	PHE	A	595	1.147	-35.247	-1.142	1.00129.18	C
ATOM	4684	CE1	PHE	A	595	2.843	-34.013	-2.898	1.00117.74	C
ATOM	4685	CE2	PHE	A	595	2.483	-35.248	-0.900	1.00117.84	C
ATOM	4686	CZ	PHE	A	595	3.337	-34.627	-1.778	1.00112.24	C
ATOM	4687	N	SER	A	596	0.213	-37.594	-1.754	1.00148.06	N
ATOM	4688	CA	SER	A	596	0.730	-38.361	-0.618	1.00144.60	C
ATOM	4689	C	SER	A	596	2.119	-38.930	-0.815	1.00136.68	C
ATOM	4690	O	SER	A	596	2.371	-39.606	-1.800	1.00138.80	O
ATOM	4691	CB	SER	A	596	-0.205	-39.513	-0.292	1.00148.72	C
ATOM	4692	OG	SER	A	596	0.511	-40.727	-0.317	1.00149.04	O

ATOM	4693	N	GLN	A	597	3.010	-38.687	0.143	1.00145.42	N
ATOM	4694	CA	GLN	A	597	4.360	-39.251	0.103	1.00138.69	C
ATOM	4695	C	GLN	A	597	4.560	-40.332	1.150	1.00141.00	C
ATOM	4696	O	GLN	A	597	4.321	-40.112	2.328	1.00139.53	O
ATOM	4697	CB	GLN	A	597	5.423	-38.170	0.302	1.00195.95	C
ATOM	4698	CG	GLN	A	597	6.827	-38.735	0.440	1.00176.37	C
ATOM	4699	CD	GLN	A	597	7.866	-37.676	0.725	1.00166.77	C
ATOM	4700	NE2	GLN	A	597	9.010	-38.098	1.240	1.00160.30	N
ATOM	4701	OE1	GLN	A	597	7.643	-36.493	0.492	1.00164.47	O
ATOM	4702	N	ALA	A	598	5.024	-41.497	0.721	1.00144.43	N
ATOM	4703	CA	ALA	A	598	5.174	-42.602	1.658	1.00140.60	C
ATOM	4704	C	ALA	A	598	6.256	-43.562	1.201	1.00137.19	C
ATOM	4705	O	ALA	A	598	6.820	-43.408	0.120	1.00138.38	O
ATOM	4706	CB	ALA	A	598	3.850	-43.329	1.850	1.00382.09	C
ATOM	4707	N	ASN	A	599	6.552	-44.552	2.033	1.00184.69	N
ATOM	4708	CA	ASN	A	599	7.613	-45.502	1.728	1.00181.92	C
ATOM	4709	C	ASN	A	599	7.110	-46.922	1.475	1.00191.73	C
ATOM	4710	O	ASN	A	599	5.943	-47.248	1.706	1.00201.22	O
ATOM	4711	CB	ASN	A	599	8.673	-45.510	2.840	1.00181.33	C
ATOM	4712	CG	ASN	A	599	9.580	-44.282	2.803	1.00173.31	C
ATOM	4713	ND2	ASN	A	599	10.554	-44.230	3.710	1.00145.42	N
ATOM	4714	OD1	ASN	A	599	9.401	-43.394	1.973	1.00161.20	O
ATOM	4715	N	ALA	A	600	8.016	-47.766	1.004	1.00127.57	N
ATOM	4716	CA	ALA	A	600	7.677	-49.133	0.665	1.00136.50	C
ATOM	4717	C	ALA	A	600	7.899	-50.062	1.846	1.00136.24	C
ATOM	4718	O	ALA	A	600	8.850	-49.888	2.597	1.00135.95	O
ATOM	4719	CB	ALA	A	600	8.525	-49.574	-0.503	1.00139.82	C
ATOM	4720	N	ILE	A	601	7.054	-51.075	2.002	1.00194.09	N
ATOM	4721	CA	ILE	A	601	7.250	-52.043	3.083	1.00193.17	C
ATOM	4722	C	ILE	A	601	7.341	-53.507	2.629	1.00194.41	C
ATOM	4723	O	ILE	A	601	8.037	-54.318	3.247	1.00195.01	O
ATOM	4724	CB	ILE	A	601	6.140	-51.923	4.118	1.00146.35	C
ATOM	4725	CG1	ILE	A	601	6.108	-50.511	4.668	1.00124.13	C
ATOM	4726	CG2	ILE	A	601	6.355	-52.910	5.237	1.00132.67	C
ATOM	4727	CD1	ILE	A	601	5.050	-50.308	5.710	1.00140.90	C
ATOM	4728	N	ALA	A	602	6.640	-53.836	1.547	1.00283.43	N
ATOM	4729	CA	ALA	A	602	6.540	-55.220	1.093	1.00284.68	C
ATOM	4730	C	ALA	A	602	6.403	-55.336	-0.427	1.00288.43	C
ATOM	4731	O	ALA	A	602	5.882	-54.437	-1.082	1.00288.63	O
ATOM	4732	CB	ALA	A	602	5.372	-55.905	1.781	1.00143.80	C
ATOM	4733	N	GLN	A	603	6.875	-56.450	-0.979	1.00185.78	N
ATOM	4734	CA	GLN	A	603	6.719	-56.730	-2.407	1.00190.10	C
ATOM	4735	C	GLN	A	603	6.704	-58.237	-2.671	1.00193.01	C
ATOM	4736	O	GLN	A	603	7.397	-58.994	-1.994	1.00193.75	O
ATOM	4737	CB	GLN	A	603	7.826	-56.053	-3.236	1.00184.09	C
ATOM	4738	CG	GLN	A	603	7.587	-56.061	-4.756	1.00185.51	C
ATOM	4739	CD	GLN	A	603	8.658	-55.299	-5.542	1.00174.88	C
ATOM	4740	NE2	GLN	A	603	8.881	-55.706	-6.790	1.00173.51	N
ATOM	4741	OE1	GLN	A	603	9.276	-54.362	-5.030	1.00168.15	O
ATOM	4742	N	ASP	A	604	5.906	-58.663	-3.650	1.00384.25	N
ATOM	4743	CA	ASP	A	604	5.820	-60.076	-4.029	1.00386.59	C
ATOM	4744	C	ASP	A	604	6.552	-60.349	-5.339	1.00394.96	C
ATOM	4745	O	ASP	A	604	6.064	-60.000	-6.415	1.00396.22	O
ATOM	4746	CB	ASP	A	604	4.360	-60.521	-4.164	1.00221.56	C
ATOM	4747	CG	ASP	A	604	3.669	-60.682	-2.826	1.00216.72	C
ATOM	4748	OD1	ASP	A	604	4.242	-61.336	-1.930	1.00214.72	O
ATOM	4749	OD2	ASP	A	604	2.550	-60.148	-2.673	1.00216.32	O1-
TER	4750		ASP	A	604					
ATOM	4751	N	GLY	A	608	3.241	-58.570	-7.745	1.00165.09	N
ATOM	4752	CA	GLY	A	608	4.087	-57.456	-7.351	1.00162.87	C
ATOM	4753	C	GLY	A	608	3.376	-56.444	-6.473	1.00152.22	C

ATOM	4754	O	GLY	A	608	3.493	-55.240	-6.688	1.00148.65	O
ATOM	4755	N	SER	A	609	2.649	-56.945	-5.476	1.00270.65	N
ATOM	4756	CA	SER	A	609	1.831	-56.116	-4.590	1.00259.93	C
ATOM	4757	C	SER	A	609	2.689	-55.366	-3.558	1.00257.95	C
ATOM	4758	O	SER	A	609	3.264	-55.983	-2.662	1.00257.44	O
ATOM	4759	CB	SER	A	609	0.787	-56.992	-3.881	1.00173.55	C
ATOM	4760	OG	SER	A	609	-0.497	-56.384	-3.860	1.00145.66	O
ATOM	4761	N	VAL	A	610	2.771	-54.040	-3.684	1.00214.83	N
ATOM	4762	CA	VAL	A	610	3.585	-53.239	-2.763	1.00212.97	C
ATOM	4763	C	VAL	A	610	2.766	-52.451	-1.755	1.00203.48	C
ATOM	4764	O	VAL	A	610	1.942	-51.631	-2.127	1.00200.67	O
ATOM	4765	CB	VAL	A	610	4.450	-52.219	-3.508	1.00100.51	C
ATOM	4766	CG1	VAL	A	610	5.249	-51.401	-2.504	1.00 96.66	C
ATOM	4767	CG2	VAL	A	610	5.367	-52.913	-4.492	1.00105.56	C
ATOM	4768	N	MET	A	611	3.018	-52.670	-0.473	1.00163.92	N
ATOM	4769	CA	MET	A	611	2.251	-51.967	0.550	1.00155.09	C
ATOM	4770	C	MET	A	611	2.857	-50.600	0.906	1.00154.07	C
ATOM	4771	O	MET	A	611	4.072	-50.461	1.038	1.00156.55	O
ATOM	4772	CB	MET	A	611	2.119	-52.830	1.808	1.00214.83	C
ATOM	4773	CG	MET	A	611	1.189	-52.241	2.851	1.00206.81	C
ATOM	4774	SD	MET	A	611	-0.538	-52.494	2.418	1.00182.22	S
ATOM	4775	CE	MET	A	611	-0.698	-54.256	2.734	1.00182.21	C
ATOM	4776	N	LEU	A	612	2.007	-49.589	1.064	1.00246.97	N
ATOM	4777	CA	LEU	A	612	2.478	-48.271	1.469	1.00242.99	C
ATOM	4778	C	LEU	A	612	1.845	-47.861	2.799	1.00237.42	C
ATOM	4779	O	LEU	A	612	0.662	-48.081	3.029	1.00235.94	O
ATOM	4780	CB	LEU	A	612	2.190	-47.224	0.385	1.00114.42	C
ATOM	4781	CG	LEU	A	612	2.949	-47.366	-0.938	1.00113.88	C
ATOM	4782	CD1	LEU	A	612	2.967	-46.076	-1.744	1.00100.74	C
ATOM	4783	CD2	LEU	A	612	4.360	-47.794	-0.640	1.00117.00	C
ATOM	4784	N	ASP	A	613	2.659	-47.285	3.679	1.00175.52	N
ATOM	4785	CA	ASP	A	613	2.227	-46.802	4.997	1.00171.14	C
ATOM	4786	C	ASP	A	613	0.757	-46.475	5.079	1.00169.03	C
ATOM	4787	O	ASP	A	613	-0.002	-47.053	5.853	1.00168.10	O
ATOM	4788	CB	ASP	A	613	2.992	-45.531	5.365	1.00184.44	C
ATOM	4789	CG	ASP	A	613	4.477	-45.666	5.125	1.00168.76	C
ATOM	4790	OD1	ASP	A	613	4.947	-46.823	5.136	1.00173.64	O
ATOM	4791	OD2	ASP	A	613	5.166	-44.633	4.954	1.00168.36	O1-
ATOM	4792	N	ASN	A	614	0.353	-45.511	4.275	1.00228.55	N
ATOM	4793	CA	ASN	A	614	-1.024	-44.986	4.304	1.00227.78	C
ATOM	4794	C	ASN	A	614	-2.136	-45.930	3.901	1.00228.64	C
ATOM	4795	O	ASN	A	614	-3.259	-45.466	3.689	1.00228.41	O
ATOM	4796	CB	ASN	A	614	-1.077	-43.683	3.481	1.00154.82	C
ATOM	4797	CG	ASN	A	614	-0.179	-43.759	2.268	1.00157.63	C
ATOM	4798	ND2	ASN	A	614	-0.116	-42.680	1.512	1.00152.71	N
ATOM	4799	OD1	ASN	A	614	0.464	-44.809	2.016	1.00160.44	O
ATOM	4800	N	GLY	A	615	-1.771	-47.190	3.647	1.00183.87	N
ATOM	4801	CA	GLY	A	615	-2.727	-48.241	3.351	1.00183.26	C
ATOM	4802	C	GLY	A	615	-3.014	-48.370	1.872	1.00187.85	C
ATOM	4803	O	GLY	A	615	-3.983	-49.006	1.453	1.00189.71	O
ATOM	4804	N	VAL	A	616	-2.152	-47.741	1.085	1.00127.19	N
ATOM	4805	CA	VAL	A	616	-2.284	-47.683	-0.360	1.00131.58	C
ATOM	4806	C	VAL	A	616	-1.388	-48.746	-0.907	1.00136.14	C
ATOM	4807	O	VAL	A	616	-0.254	-48.855	-0.475	1.00135.54	O
ATOM	4808	CB	VAL	A	616	-1.691	-46.379	-0.916	1.00 97.97	C
ATOM	4809	CG1	VAL	A	616	-2.259	-46.066	-2.283	1.00 99.91	C
ATOM	4810	CG2	VAL	A	616	-1.966	-45.250	0.025	1.00 94.37	C
ATOM	4811	N	GLU	A	617	-1.869	-49.530	-1.860	1.00158.77	N
ATOM	4812	CA	GLU	A	617	-0.958	-50.469	-2.488	1.00164.61	C
ATOM	4813	C	GLU	A	617	-0.657	-50.133	-3.939	1.00167.44	C
ATOM	4814	O	GLU	A	617	-1.391	-49.408	-4.599	1.00164.89	O

ATOM	4815	CB	GLU	A	617	-1.524	-51.873	-2.384	1.00231.02	C
ATOM	4816	CG	GLU	A	617	-1.926	-52.297	-1.016	1.00201.15	C
ATOM	4817	CD	GLU	A	617	-2.489	-53.700	-1.005	1.00201.47	C
ATOM	4818	OE1	GLU	A	617	-2.224	-54.476	-1.951	1.00207.31	O
ATOM	4819	OE2	GLU	A	617	-3.212	-54.019	-0.041	1.00196.65	O1-
ATOM	4820	N	ILE	A	618	0.439	-50.697	-4.422	1.00169.37	N
ATOM	4821	CA	ILE	A	618	0.795	-50.640	-5.827	1.00170.41	C
ATOM	4822	C	ILE	A	618	0.615	-52.046	-6.382	1.00178.26	C
ATOM	4823	O	ILE	A	618	1.313	-52.969	-5.951	1.00182.81	O
ATOM	4824	CB	ILE	A	618	2.264	-50.222	-5.990	1.00161.06	C
ATOM	4825	CG1	ILE	A	618	2.587	-49.055	-5.053	1.00128.62	C
ATOM	4826	CG2	ILE	A	618	2.577	-49.813	-7.429	1.00133.12	C
ATOM	4827	CD1	ILE	A	618	3.734	-48.189	-5.537	1.00145.45	C
ATOM	4828	N	ILE	A	619	-0.303	-52.218	-7.332	1.00176.71	N
ATOM	4829	CA	ILE	A	619	-0.528	-53.535	-7.914	1.00184.12	C
ATOM	4830	C	ILE	A	619	-0.459	-53.564	-9.447	1.00188.01	C
ATOM	4831	O	ILE	A	619	-0.205	-52.541	-10.094	1.00187.20	O
ATOM	4832	CB	ILE	A	619	-1.838	-54.184	-7.392	1.00183.52	C
ATOM	4833	CG1	ILE	A	619	-3.056	-53.442	-7.920	1.00146.66	C
ATOM	4834	CG2	ILE	A	619	-1.849	-54.221	-5.870	1.00158.66	C
ATOM	4835	CD1	ILE	A	619	-4.299	-54.310	-7.963	1.00146.13	C
ATOM	4836	N	ASN	A	620	-0.716	-54.749	-10.006	1.00194.74	N
ATOM	4837	CA	ASN	A	620	-0.353	-55.099	-11.392	1.00202.02	C
ATOM	4838	C	ASN	A	620	0.706	-54.215	-12.044	1.00201.62	C
ATOM	4839	O	ASN	A	620	0.374	-53.290	-12.769	1.00199.78	O
ATOM	4840	CB	ASN	A	620	-1.586	-55.322	-12.309	1.00221.47	C
ATOM	4841	CG	ASN	A	620	-2.643	-54.228	-12.184	1.00214.77	C
ATOM	4842	ND2	ASN	A	620	-3.885	-54.560	-12.528	1.00188.66	N
ATOM	4843	OD1	ASN	A	620	-2.348	-53.103	-11.796	1.00208.42	O
ATOM	4844	N	ASP	A	621	1.973	-54.537	-11.790	1.00218.75	N
ATOM	4845	CA	ASP	A	621	3.117	-53.859	-12.408	1.00216.23	C
ATOM	4846	C	ASP	A	621	2.977	-52.348	-12.457	1.00207.86	C
ATOM	4847	O	ASP	A	621	2.881	-51.778	-13.543	1.00209.08	O
ATOM	4848	CB	ASP	A	621	3.337	-54.359	-13.837	1.00211.45	C
ATOM	4849	CG	ASP	A	621	3.337	-55.865	-13.932	1.00219.79	C
ATOM	4850	OD1	ASP	A	621	3.738	-56.526	-12.953	1.00223.05	O
ATOM	4851	OD2	ASP	A	621	2.922	-56.389	-14.983	1.00224.30	O1-
ATOM	4852	N	PHE	A	622	2.990	-51.704	-11.293	1.00155.84	N
ATOM	4853	CA	PHE	A	622	2.954	-50.243	-11.205	1.00148.20	C
ATOM	4854	C	PHE	A	622	1.937	-49.586	-12.174	1.00150.82	C
ATOM	4855	O	PHE	A	622	2.274	-48.664	-12.921	1.00150.78	O
ATOM	4856	CB	PHE	A	622	4.364	-49.649	-11.382	1.00221.75	C
ATOM	4857	CG	PHE	A	622	4.905	-49.757	-12.791	1.00225.97	C
ATOM	4858	CD1	PHE	A	622	4.703	-48.732	-13.708	1.00224.71	C
ATOM	4859	CD2	PHE	A	622	5.621	-50.876	-13.198	1.00233.16	C
ATOM	4860	CE1	PHE	A	622	5.191	-48.824	-15.006	1.00231.61	C
ATOM	4861	CE2	PHE	A	622	6.116	-50.974	-14.496	1.00238.44	C
ATOM	4862	CZ	PHE	A	622	5.901	-49.945	-15.398	1.00238.13	C
ATOM	4863	N	ARG	A	623	0.689	-50.055	-12.150	1.00118.77	N
ATOM	4864	CA	ARG	A	623	-0.359	-49.452	-12.972	1.00122.75	C
ATOM	4865	C	ARG	A	623	-1.532	-48.927	-12.145	1.00119.03	C
ATOM	4866	O	ARG	A	623	-2.185	-47.956	-12.528	1.00120.17	O
ATOM	4867	CB	ARG	A	623	-0.877	-50.441	-14.023	1.00185.06	C
ATOM	4868	CG	ARG	A	623	-0.198	-50.343	-15.383	1.00191.48	C
ATOM	4869	CD	ARG	A	623	-0.866	-51.250	-16.413	1.00202.57	C
ATOM	4870	NE	ARG	A	623	-0.154	-51.230	-17.686	1.00211.12	N
ATOM	4871	CZ	ARG	A	623	-0.383	-52.075	-18.683	1.00221.67	C
ATOM	4872	NH1	ARG	A	623	-1.310	-53.014	-18.556	1.00224.25	N1+
ATOM	4873	NH2	ARG	A	623	0.317	-51.985	-19.805	1.00230.63	N
ATOM	4874	N	ALA	A	624	-1.806	-49.566	-11.017	1.00147.10	N
ATOM	4875	CA	ALA	A	624	-2.997	-49.220	-10.255	1.00141.76	C

ATOM	4876	C	ALA	A	624	-2.765	-49.300	-8.754	1.00136.77	C
ATOM	4877	O	ALA	A	624	-2.040	-50.175	-8.268	1.00139.27	O
ATOM	4878	CB	ALA	A	624	-4.158	-50.119	-10.657	1.00447.66	C
ATOM	4879	N	LEU	A	625	-3.416	-48.397	-8.026	1.00159.43	N
ATOM	4880	CA	LEU	A	625	-3.256	-48.305	-6.580	1.00156.54	C
ATOM	4881	C	LEU	A	625	-4.483	-48.824	-5.830	1.00157.52	C
ATOM	4882	O	LEU	A	625	-5.604	-48.521	-6.220	1.00156.36	O
ATOM	4883	CB	LEU	A	625	-3.031	-46.847	-6.198	1.00118.24	C
ATOM	4884	CG	LEU	A	625	-2.270	-45.971	-7.192	1.00116.58	C
ATOM	4885	CD1	LEU	A	625	-1.918	-44.643	-6.544	1.00109.09	C
ATOM	4886	CD2	LEU	A	625	-1.019	-46.672	-7.677	1.00118.00	C
ATOM	4887	N	LYS	A	626	-4.279	-49.602	-4.764	1.00171.72	N
ATOM	4888	CA	LYS	A	626	-5.374	-50.004	-3.872	1.00169.48	C
ATOM	4889	C	LYS	A	626	-5.448	-49.037	-2.694	1.00164.48	C
ATOM	4890	O	LYS	A	626	-4.745	-49.212	-1.679	1.00163.20	O
ATOM	4891	CB	LYS	A	626	-5.208	-51.445	-3.377	1.00163.97	C
ATOM	4892	CG	LYS	A	626	-6.512	-52.112	-2.909	1.00164.09	C
ATOM	4893	CD	LYS	A	626	-6.335	-53.624	-2.818	1.00166.07	C
ATOM	4894	CE	LYS	A	626	-7.654	-54.382	-2.801	1.00167.03	C
ATOM	4895	NZ	LYS	A	626	-7.428	-55.846	-3.026	1.00169.04	N1+
ATOM	4896	N	VAL	A	627	-6.302	-48.024	-2.862	1.00169.44	N
ATOM	4897	CA	VAL	A	627	-6.453	-46.889	-1.948	1.00165.38	C
ATOM	4898	C	VAL	A	627	-7.716	-47.036	-1.087	1.00161.87	C
ATOM	4899	O	VAL	A	627	-8.716	-46.335	-1.295	1.00156.49	O
ATOM	4900	CB	VAL	A	627	-6.547	-45.553	-2.744	1.00108.23	C
ATOM	4901	CG1	VAL	A	627	-6.528	-44.348	-1.828	1.00105.28	C
ATOM	4902	CG2	VAL	A	627	-5.442	-45.434	-3.784	1.00110.67	C
ATOM	4903	N	GLU	A	628	-7.665	-47.960	-0.129	1.00222.33	N
ATOM	4904	CA	GLU	A	628	-8.804	-48.260	0.747	1.00221.16	C
ATOM	4905	C	GLU	A	628	-9.857	-49.182	0.108	1.00223.09	C
ATOM	4906	O	GLU	A	628	-11.059	-49.034	0.348	1.00220.06	O
ATOM	4907	CB	GLU	A	628	-9.454	-46.975	1.271	1.00226.13	C
ATOM	4908	CG	GLU	A	628	-10.381	-47.201	2.455	1.00227.34	C
ATOM	4909	CD	GLU	A	628	-10.936	-45.911	3.025	1.00224.90	C
ATOM	4910	OE1	GLU	A	628	-10.524	-44.825	2.561	1.00221.08	O
ATOM	4911	OE2	GLU	A	628	-11.786	-45.986	3.936	1.00228.55	O1-
ATOM	4912	N	GLY	A	629	-9.386	-50.148	-0.678	1.00224.78	N
ATOM	4913	CA	GLY	A	629	-10.254	-51.091	-1.358	1.00227.85	C
ATOM	4914	C	GLY	A	629	-10.439	-50.714	-2.813	1.00228.83	C
ATOM	4915	O	GLY	A	629	-10.730	-51.564	-3.655	1.00234.14	O
ATOM	4916	N	ALA	A	630	-10.254	-49.429	-3.100	1.00228.01	N
ATOM	4917	CA	ALA	A	630	-10.447	-48.874	-4.435	1.00230.23	C
ATOM	4918	C	ALA	A	630	-9.217	-49.054	-5.310	1.00232.30	C
ATOM	4919	O	ALA	A	630	-8.152	-48.535	-4.991	1.00229.89	O
ATOM	4920	CB	ALA	A	630	-10.775	-47.397	-4.331	1.00 94.97	C
ATOM	4921	N	SER	A	631	-9.360	-49.776	-6.418	1.00166.32	N
ATOM	4922	CA	SER	A	631	-8.279	-49.863	-7.392	1.00170.05	C
ATOM	4923	C	SER	A	631	-8.342	-48.623	-8.275	1.00167.36	C
ATOM	4924	O	SER	A	631	-9.429	-48.154	-8.618	1.00167.59	O
ATOM	4925	CB	SER	A	631	-8.370	-51.142	-8.229	1.00191.13	C
ATOM	4926	OG	SER	A	631	-9.349	-51.034	-9.244	1.00157.11	O
ATOM	4927	N	ILE	A	632	-7.178	-48.077	-8.614	1.00150.60	N
ATOM	4928	CA	ILE	A	632	-7.116	-46.866	-9.425	1.00151.01	C
ATOM	4929	C	ILE	A	632	-6.050	-46.899	-10.501	1.00156.40	C
ATOM	4930	O	ILE	A	632	-4.920	-47.332	-10.267	1.00155.89	O
ATOM	4931	CB	ILE	A	632	-6.871	-45.630	-8.573	1.00118.21	C
ATOM	4932	CG1	ILE	A	632	-7.937	-45.518	-7.498	1.00114.04	C
ATOM	4933	CG2	ILE	A	632	-6.870	-44.375	-9.432	1.00122.14	C
ATOM	4934	CD1	ILE	A	632	-7.720	-44.338	-6.630	1.00 72.28	C
ATOM	4935	N	PRO	A	633	-6.423	-46.421	-11.688	1.00139.21	N
ATOM	4936	CA	PRO	A	633	-5.575	-46.304	-12.871	1.00147.80	C

ATOM	4937	C	PRO	A	633	-4.567	-45.177	-12.718	1.00145.31	C
ATOM	4938	O	PRO	A	633	-4.953	-44.067	-12.352	1.00142.28	O
ATOM	4939	CB	PRO	A	633	-6.576	-45.938	-13.968	1.00187.01	C
ATOM	4940	CG	PRO	A	633	-7.691	-45.255	-13.239	1.00145.85	C
ATOM	4941	CD	PRO	A	633	-7.807	-45.994	-11.957	1.00134.71	C
ATOM	4942	N	LEU	A	634	-3.297	-45.459	-12.998	1.00 96.24	N
ATOM	4943	CA	LEU	A	634	-2.270	-44.433	-12.950	1.00 91.20	C
ATOM	4944	C	LEU	A	634	-2.165	-43.750	-14.289	1.00101.66	C
ATOM	4945	O	LEU	A	634	-1.825	-44.379	-15.271	1.00109.10	O
ATOM	4946	CB	LEU	A	634	-0.920	-45.030	-12.578	1.00152.45	C
ATOM	4947	CG	LEU	A	634	-0.860	-45.524	-11.137	1.00108.38	C
ATOM	4948	CD1	LEU	A	634	0.561	-45.795	-10.751	1.00104.80	C
ATOM	4949	CD2	LEU	A	634	-1.445	-44.484	-10.214	1.00101.33	C
ATOM	4950	N	LYS	A	635	-2.450	-42.458	-14.334	1.00127.43	N
ATOM	4951	CA	LYS	A	635	-2.304	-41.714	-15.571	1.00129.74	C
ATOM	4952	C	LYS	A	635	-0.910	-41.915	-16.085	1.00131.25	C
ATOM	4953	O	LYS	A	635	-0.645	-41.708	-17.258	1.00134.57	O
ATOM	4954	CB	LYS	A	635	-2.528	-40.221	-15.361	1.00149.32	C
ATOM	4955	CG	LYS	A	635	-2.192	-39.407	-16.598	1.00152.01	C
ATOM	4956	CD	LYS	A	635	-2.442	-37.932	-16.408	1.00120.85	C
ATOM	4957	CE	LYS	A	635	-2.777	-37.259	-17.730	1.00124.35	C
ATOM	4958	NZ	LYS	A	635	-4.254	-37.203	-17.975	1.00126.57	N1+
ATOM	4959	N	ALA	A	636	-0.012	-42.303	-15.193	1.00136.60	N
ATOM	4960	CA	ALA	A	636	1.364	-42.563	-15.566	1.00137.84	C
ATOM	4961	C	ALA	A	636	2.117	-42.944	-14.332	1.00134.72	C
ATOM	4962	O	ALA	A	636	1.549	-42.987	-13.251	1.00131.62	O
ATOM	4963	CB	ALA	A	636	1.998	-41.344	-16.190	1.00127.24	C
ATOM	4964	N	PHE	A	637	3.397	-43.232	-14.519	1.00123.29	N
ATOM	4965	CA	PHE	A	637	4.323	-43.504	-13.438	1.00120.31	C
ATOM	4966	C	PHE	A	637	5.613	-42.850	-13.836	1.00120.93	C
ATOM	4967	O	PHE	A	637	6.184	-43.199	-14.860	1.00124.46	O
ATOM	4968	CB	PHE	A	637	4.566	-44.998	-13.279	1.00168.48	C
ATOM	4969	CG	PHE	A	637	5.767	-45.332	-12.434	1.00137.26	C
ATOM	4970	CD1	PHE	A	637	5.618	-45.916	-11.195	1.00163.80	C
ATOM	4971	CD2	PHE	A	637	7.049	-45.074	-12.887	1.00139.00	C
ATOM	4972	CE1	PHE	A	637	6.721	-46.231	-10.433	1.00132.92	C
ATOM	4973	CE2	PHE	A	637	8.151	-45.383	-12.123	1.00137.71	C
ATOM	4974	CZ	PHE	A	637	7.985	-45.960	-10.899	1.00134.65	C
ATOM	4975	N	VAL	A	638	6.072	-41.902	-13.034	1.00129.92	N
ATOM	4976	CA	VAL	A	638	7.342	-41.242	-13.286	1.00130.49	C
ATOM	4977	C	VAL	A	638	8.421	-41.818	-12.378	1.00128.63	C
ATOM	4978	O	VAL	A	638	8.193	-42.060	-11.199	1.00125.62	O
ATOM	4979	CB	VAL	A	638	7.215	-39.728	-13.112	1.00102.94	C
ATOM	4980	CG1	VAL	A	638	8.571	-39.055	-13.160	1.00104.57	C
ATOM	4981	CG2	VAL	A	638	6.293	-39.167	-14.174	1.00104.69	C
ATOM	4982	N	ASP	A	639	9.593	-42.050	-12.950	1.00132.95	N
ATOM	4983	CA	ASP	A	639	10.676	-42.743	-12.278	1.00132.14	C
ATOM	4984	C	ASP	A	639	11.859	-41.795	-12.282	1.00132.32	C
ATOM	4985	O	ASP	A	639	12.568	-41.718	-13.275	1.00135.30	O
ATOM	4986	CB	ASP	A	639	10.999	-44.011	-13.076	1.00166.50	C
ATOM	4987	CG	ASP	A	639	11.989	-44.916	-12.384	1.00166.29	C
ATOM	4988	OD1	ASP	A	639	13.119	-44.479	-12.104	1.00138.40	O
ATOM	4989	OD2	ASP	A	639	11.643	-46.083	-12.133	1.00139.45	O1-
ATOM	4990	N	ILE	A	640	12.063	-41.051	-11.200	1.00144.57	N
ATOM	4991	CA	ILE	A	640	13.122	-40.039	-11.191	1.00145.37	C
ATOM	4992	C	ILE	A	640	14.428	-40.544	-10.585	1.00144.68	C
ATOM	4993	O	ILE	A	640	14.465	-40.979	-9.435	1.00141.93	O
ATOM	4994	CB	ILE	A	640	12.682	-38.743	-10.500	1.00123.47	C
ATOM	4995	CG1	ILE	A	640	11.372	-38.260	-11.110	1.00124.12	C
ATOM	4996	CG2	ILE	A	640	13.775	-37.666	-10.611	1.00125.82	C
ATOM	4997	CD1	ILE	A	640	10.918	-36.966	-10.563	1.00124.34	C

ATOM	4998	N	GLU	A	641	15.498	-40.471	-11.371	1.00142.75	N
ATOM	4999	CA	GLU	A	641	16.762	-41.068	-10.985	1.00142.58	C
ATOM	5000	C	GLU	A	641	17.845	-40.026	-10.720	1.00143.61	C
ATOM	5001	O	GLU	A	641	18.848	-40.329	-10.082	1.00143.28	O
ATOM	5002	CB	GLU	A	641	17.210	-42.082	-12.039	1.00235.36	C
ATOM	5003	CG	GLU	A	641	18.225	-43.085	-11.538	1.00235.24	C
ATOM	5004	CD	GLU	A	641	18.307	-44.315	-12.414	1.00213.45	C
ATOM	5005	OE1	GLU	A	641	17.246	-44.788	-12.881	1.00215.33	O
ATOM	5006	OE2	GLU	A	641	19.433	-44.809	-12.632	1.00215.19	O1-
ATOM	5007	N	SER	A	642	17.647	-38.800	-11.191	1.00154.68	N
ATOM	5008	CA	SER	A	642	18.609	-37.734	-10.897	1.00156.28	C
ATOM	5009	C	SER	A	642	17.946	-36.361	-10.791	1.00157.45	C
ATOM	5010	O	SER	A	642	17.750	-35.690	-11.801	1.00160.21	O
ATOM	5011	CB	SER	A	642	19.725	-37.707	-11.943	1.00371.97	C
ATOM	5012	OG	SER	A	642	20.534	-38.865	-11.843	1.00371.32	O
ATOM	5013	N	ILE	A	643	17.606	-35.957	-9.563	1.00125.44	N
ATOM	5014	CA	ILE	A	643	16.943	-34.676	-9.297	1.00127.37	C
ATOM	5015	C	ILE	A	643	17.833	-33.519	-9.722	1.00131.93	C
ATOM	5016	O	ILE	A	643	17.372	-32.479	-10.200	1.00134.64	O
ATOM	5017	CB	ILE	A	643	16.630	-34.498	-7.795	1.00112.20	C
ATOM	5018	CG1	ILE	A	643	15.719	-35.612	-7.288	1.00107.67	C
ATOM	5019	CG2	ILE	A	643	16.001	-33.152	-7.552	1.00115.58	C
ATOM	5020	CD1	ILE	A	643	15.296	-35.433	-5.863	1.00106.12	C
ATOM	5021	N	THR	A	644	19.125	-33.724	-9.530	1.00128.88	N
ATOM	5022	CA	THR	A	644	20.109	-32.710	-9.812	1.00132.66	C
ATOM	5023	C	THR	A	644	20.151	-32.454	-11.308	1.00135.14	C
ATOM	5024	O	THR	A	644	20.192	-31.298	-11.728	1.00137.03	O
ATOM	5025	CB	THR	A	644	21.483	-33.161	-9.311	1.00165.24	C
ATOM	5026	CG2	THR	A	644	22.027	-32.168	-8.296	1.00141.81	C
ATOM	5027	OG1	THR	A	644	21.359	-34.453	-8.696	1.00134.53	O
ATOM	5028	N	ASN	A	645	20.106	-33.536	-12.101	1.00137.58	N
ATOM	5029	CA	ASN	A	645	20.348	-33.486	-13.557	1.00140.35	C
ATOM	5030	C	ASN	A	645	19.088	-33.463	-14.431	1.00140.61	C
ATOM	5031	O	ASN	A	645	19.095	-32.931	-15.542	1.00143.80	O
ATOM	5032	CB	ASN	A	645	21.267	-34.632	-13.993	1.00183.84	C
ATOM	5033	CG	ASN	A	645	22.479	-34.792	-13.087	1.00183.61	C
ATOM	5034	ND2	ASN	A	645	22.365	-35.688	-12.114	1.00154.95	N
ATOM	5035	OD1	ASN	A	645	23.504	-34.125	-13.262	1.00160.91	O
ATOM	5036	N	GLY	A	646	18.011	-34.044	-13.922	1.00136.03	N
ATOM	5037	CA	GLY	A	646	16.717	-33.971	-14.575	1.00136.26	C
ATOM	5038	C	GLY	A	646	16.346	-35.276	-15.236	1.00134.83	C
ATOM	5039	O	GLY	A	646	15.454	-35.324	-16.081	1.00135.69	O
ATOM	5040	N	LYS	A	647	17.032	-36.341	-14.833	1.00147.23	N
ATOM	5041	CA	LYS	A	647	16.957	-37.631	-15.510	1.00147.46	C
ATOM	5042	C	LYS	A	647	15.866	-38.508	-14.921	1.00144.35	C
ATOM	5043	O	LYS	A	647	16.016	-39.049	-13.819	1.00141.49	O
ATOM	5044	CB	LYS	A	647	18.308	-38.342	-15.425	1.00199.83	C
ATOM	5045	CG	LYS	A	647	18.439	-39.605	-16.251	1.00202.07	C
ATOM	5046	CD	LYS	A	647	19.799	-40.233	-15.989	1.00203.68	C
ATOM	5047	CE	LYS	A	647	20.096	-41.393	-16.918	1.00180.78	C
ATOM	5048	NZ	LYS	A	647	21.540	-41.791	-16.855	1.00183.33	N1+
ATOM	5049	N	PHE	A	648	14.770	-38.632	-15.676	1.00118.40	N
ATOM	5050	CA	PHE	A	648	13.633	-39.498	-15.343	1.00116.32	C
ATOM	5051	C	PHE	A	648	13.023	-40.204	-16.574	1.00119.25	C
ATOM	5052	O	PHE	A	648	13.263	-39.830	-17.728	1.00122.57	O
ATOM	5053	CB	PHE	A	648	12.545	-38.718	-14.580	1.00129.73	C
ATOM	5054	CG	PHE	A	648	12.067	-37.480	-15.291	1.00131.69	C
ATOM	5055	CD1	PHE	A	648	11.170	-37.567	-16.347	1.00132.92	C
ATOM	5056	CD2	PHE	A	648	12.514	-36.231	-14.905	1.00132.84	C
ATOM	5057	CE1	PHE	A	648	10.734	-36.433	-17.003	1.00135.03	C
ATOM	5058	CE2	PHE	A	648	12.087	-35.098	-15.557	1.00135.42	C

ATOM	5059	CZ	PHE	A	648	11.194	-35.199	-16.607	1.00136.32	C
ATOM	5060	N	TYR	A	649	12.226	-41.231	-16.308	1.00144.11	N
ATOM	5061	CA	TYR	A	649	11.569	-41.962	-17.367	1.00147.48	C
ATOM	5062	C	TYR	A	649	10.062	-41.897	-17.174	1.00145.64	C
ATOM	5063	O	TYR	A	649	9.509	-42.593	-16.331	1.00143.07	O
ATOM	5064	CB	TYR	A	649	12.041	-43.411	-17.371	1.00196.41	C
ATOM	5065	CG	TYR	A	649	13.532	-43.573	-17.153	1.00197.04	C
ATOM	5066	CD1	TYR	A	649	14.018	-44.272	-16.057	1.00168.17	C
ATOM	5067	CD2	TYR	A	649	14.456	-43.026	-18.038	1.00173.45	C
ATOM	5068	CE1	TYR	A	649	15.384	-44.430	-15.852	1.00168.87	C
ATOM	5069	CE2	TYR	A	649	15.826	-43.179	-17.837	1.00174.17	C
ATOM	5070	CZ	TYR	A	649	16.276	-43.882	-16.743	1.00171.89	C
ATOM	5071	OH	TYR	A	649	17.620	-44.039	-16.531	1.00172.68	O
ATOM	5072	N	TYR	A	650	9.404	-41.057	-17.964	1.00162.52	N
ATOM	5073	CA	TYR	A	650	7.957	-40.892	-17.898	1.00161.22	C
ATOM	5074	C	TYR	A	650	7.223	-42.073	-18.552	1.00163.59	C
ATOM	5075	O	TYR	A	650	7.062	-42.108	-19.769	1.00167.29	O
ATOM	5076	CB	TYR	A	650	7.568	-39.550	-18.546	1.00152.65	C
ATOM	5077	CG	TYR	A	650	6.089	-39.227	-18.556	1.00124.93	C
ATOM	5078	CD1	TYR	A	650	5.411	-38.893	-17.391	1.00148.47	C
ATOM	5079	CD2	TYR	A	650	5.375	-39.234	-19.741	1.00127.62	C
ATOM	5080	CE1	TYR	A	650	4.054	-38.597	-17.408	1.00121.05	C
ATOM	5081	CE2	TYR	A	650	4.015	-38.940	-19.770	1.00126.85	C
ATOM	5082	CZ	TYR	A	650	3.357	-38.621	-18.604	1.00123.54	C
ATOM	5083	OH	TYR	A	650	2.006	-38.332	-18.665	1.00123.15	O
ATOM	5084	N	ASN	A	651	6.800	-43.046	-17.741	1.00130.34	N
ATOM	5085	CA	ASN	A	651	5.992	-44.182	-18.213	1.00133.05	C
ATOM	5086	C	ASN	A	651	4.512	-43.844	-18.410	1.00132.39	C
ATOM	5087	O	ASN	A	651	3.841	-43.458	-17.464	1.00128.46	O
ATOM	5088	CB	ASN	A	651	6.074	-45.348	-17.227	1.00193.47	C
ATOM	5089	CG	ASN	A	651	7.362	-46.116	-17.337	1.00169.61	C
ATOM	5090	ND2	ASN	A	651	7.295	-47.422	-17.101	1.00171.89	N
ATOM	5091	OD1	ASN	A	651	8.410	-45.547	-17.635	1.00170.16	O
ATOM	5092	N	GLU	A	652	3.983	-44.014	-19.613	1.00129.28	N
ATOM	5093	CA	GLU	A	652	2.601	-43.625	-19.853	1.00128.89	C
ATOM	5094	C	GLU	A	652	1.629	-44.778	-19.615	1.00129.74	C
ATOM	5095	O	GLU	A	652	1.799	-45.842	-20.189	1.00134.33	O
ATOM	5096	CB	GLU	A	652	2.457	-43.094	-21.276	1.00246.75	C
ATOM	5097	CG	GLU	A	652	1.228	-42.242	-21.486	1.00245.87	C
ATOM	5098	CD	GLU	A	652	1.181	-41.649	-22.872	1.00250.05	C
ATOM	5099	OE1	GLU	A	652	2.146	-41.865	-23.638	1.00227.16	O
ATOM	5100	OE2	GLU	A	652	0.181	-40.971	-23.194	1.00223.70	O1-
ATOM	5101	N	ILE	A	653	0.625	-44.570	-18.762	1.00211.16	N
ATOM	5102	CA	ILE	A	653	-0.465	-45.537	-18.574	1.00211.63	C
ATOM	5103	C	ILE	A	653	-1.799	-44.812	-18.621	1.00209.25	C
ATOM	5104	O	ILE	A	653	-1.854	-43.613	-18.376	1.00204.85	O
ATOM	5105	CB	ILE	A	653	-0.439	-46.223	-17.197	1.00124.02	C
ATOM	5106	CG1	ILE	A	653	0.950	-46.731	-16.838	1.00125.08	C
ATOM	5107	CG2	ILE	A	653	-1.443	-47.358	-17.157	1.00125.59	C
ATOM	5108	CD1	ILE	A	653	1.862	-45.689	-16.314	1.00122.04	C
ATOM	5109	N	ASP	A	654	-2.878	-45.542	-18.891	1.00138.15	N
ATOM	5110	CA	ASP	A	654	-4.227	-44.952	-18.940	1.00136.19	C
ATOM	5111	C	ASP	A	654	-4.214	-43.448	-19.216	1.00133.68	C
ATOM	5112	O	ASP	A	654	-4.310	-42.633	-18.306	1.00129.24	O
ATOM	5113	CB	ASP	A	654	-5.020	-45.257	-17.664	1.00151.52	C
ATOM	5114	CG	ASP	A	654	-6.345	-45.948	-17.952	1.00153.64	C
ATOM	5115	OD1	ASP	A	654	-6.997	-45.609	-18.961	1.00156.10	O
ATOM	5116	OD2	ASP	A	654	-6.729	-46.842	-17.173	1.00153.15	O1-
ATOM	5117	N	SER	A	655	-4.090	-43.100	-20.491	1.00148.87	N
ATOM	5118	CA	SER	A	655	-3.983	-41.716	-20.914	1.00147.56	C
ATOM	5119	C	SER	A	655	-5.149	-40.932	-20.377	1.00144.78	C

ATOM	5120	O	SER	A	655	-5.094	-39.710	-20.293	1.00143.57	O
ATOM	5121	CB	SER	A	655	-3.972	-41.632	-22.443	1.00172.89	C
ATOM	5122	OG	SER	A	655	-5.185	-42.116	-22.993	1.00152.42	O
ATOM	5123	N	LYS	A	656	-6.203	-41.649	-20.008	1.00145.94	N
ATOM	5124	CA	LYS	A	656	-7.432	-41.018	-19.555	1.00143.58	C
ATOM	5125	C	LYS	A	656	-7.674	-41.084	-18.038	1.00138.66	C
ATOM	5126	O	LYS	A	656	-8.812	-41.205	-17.598	1.00137.71	O
ATOM	5127	CB	LYS	A	656	-8.632	-41.563	-20.337	1.00131.32	C
ATOM	5128	CG	LYS	A	656	-8.774	-43.073	-20.381	1.00133.74	C
ATOM	5129	CD	LYS	A	656	-9.749	-43.463	-21.504	1.00117.44	C
ATOM	5130	CE	LYS	A	656	-10.435	-44.823	-21.276	1.00120.86	C
ATOM	5131	NZ	LYS	A	656	-9.902	-46.028	-22.000	1.00127.56	N1+
ATOM	5132	N	ALA	A	657	-6.608	-40.975	-17.245	1.00151.62	N
ATOM	5133	CA	ALA	A	657	-6.721	-40.975	-15.782	1.00146.95	C
ATOM	5134	C	ALA	A	657	-6.220	-39.676	-15.180	1.00144.88	C
ATOM	5135	O	ALA	A	657	-5.880	-38.743	-15.902	1.00146.88	O
ATOM	5136	CB	ALA	A	657	-5.953	-42.126	-15.192	1.00 77.86	C
ATOM	5137	N	GLN	A	658	-6.143	-39.621	-13.856	1.00142.81	N
ATOM	5138	CA	GLN	A	658	-5.709	-38.387	-13.215	1.00141.25	C
ATOM	5139	C	GLN	A	658	-4.591	-38.507	-12.163	1.00138.26	C
ATOM	5140	O	GLN	A	658	-4.069	-37.491	-11.703	1.00138.85	O
ATOM	5141	CB	GLN	A	658	-6.909	-37.635	-12.625	1.00277.94	C
ATOM	5142	CG	GLN	A	658	-6.617	-36.168	-12.323	1.00278.80	C
ATOM	5143	CD	GLN	A	658	-7.687	-35.502	-11.476	1.00279.33	C
ATOM	5144	NE2	GLN	A	658	-7.382	-34.314	-10.970	1.00279.91	N
ATOM	5145	OE1	GLN	A	658	-8.770	-36.050	-11.277	1.00279.43	O
ATOM	5146	N	ILE	A	659	-4.202	-39.720	-11.791	1.00126.24	N
ATOM	5147	CA	ILE	A	659	-3.272	-39.882	-10.667	1.00123.12	C
ATOM	5148	C	ILE	A	659	-1.838	-40.294	-11.045	1.00123.23	C
ATOM	5149	O	ILE	A	659	-1.625	-41.359	-11.600	1.00124.18	O
ATOM	5150	CB	ILE	A	659	-3.858	-40.854	-9.633	1.00142.77	C
ATOM	5151	CG1	ILE	A	659	-5.079	-40.214	-8.977	1.00125.59	C
ATOM	5152	CG2	ILE	A	659	-2.824	-41.215	-8.589	1.00124.35	C
ATOM	5153	CD1	ILE	A	659	-6.040	-41.200	-8.367	1.00140.84	C
ATOM	5154	N	TYR	A	660	-0.853	-39.458	-10.735	1.00120.62	N
ATOM	5155	CA	TYR	A	660	0.526	-39.788	-11.099	1.00120.52	C
ATOM	5156	C	TYR	A	660	1.263	-40.480	-9.961	1.00117.42	C
ATOM	5157	O	TYR	A	660	1.204	-40.025	-8.829	1.00115.29	O
ATOM	5158	CB	TYR	A	660	1.313	-38.525	-11.433	1.00122.54	C
ATOM	5159	CG	TYR	A	660	0.922	-37.805	-12.692	1.00125.19	C
ATOM	5160	CD1	TYR	A	660	-0.197	-37.005	-12.728	1.00125.86	C
ATOM	5161	CD2	TYR	A	660	1.702	-37.884	-13.827	1.00127.14	C
ATOM	5162	CE1	TYR	A	660	-0.548	-36.326	-13.870	1.00128.83	C
ATOM	5163	CE2	TYR	A	660	1.358	-37.209	-14.973	1.00129.98	C
ATOM	5164	CZ	TYR	A	660	0.230	-36.434	-14.992	1.00130.75	C
ATOM	5165	OH	TYR	A	660	-0.128	-35.754	-16.133	1.00133.62	O
ATOM	5166	N	LEU	A	661	1.993	-41.549	-10.250	1.00129.05	N
ATOM	5167	CA	LEU	A	661	2.852	-42.150	-9.230	1.00126.40	C
ATOM	5168	C	LEU	A	661	4.308	-41.790	-9.510	1.00127.06	C
ATOM	5169	O	LEU	A	661	4.766	-41.928	-10.631	1.00129.70	O
ATOM	5170	CB	LEU	A	661	2.641	-43.672	-9.148	1.00111.94	C
ATOM	5171	CG	LEU	A	661	3.638	-44.622	-8.462	1.00 98.27	C
ATOM	5172	CD1	LEU	A	661	4.411	-43.963	-7.352	1.00107.05	C
ATOM	5173	CD2	LEU	A	661	2.948	-45.859	-7.919	1.00 98.35	C
ATOM	5174	N	LEU	A	662	5.022	-41.302	-8.496	1.00132.88	N
ATOM	5175	CA	LEU	A	662	6.439	-40.988	-8.654	1.00133.36	C
ATOM	5176	C	LEU	A	662	7.272	-41.832	-7.729	1.00131.07	C
ATOM	5177	O	LEU	A	662	6.815	-42.236	-6.661	1.00128.40	O
ATOM	5178	CB	LEU	A	662	6.742	-39.541	-8.302	1.00102.03	C
ATOM	5179	CG	LEU	A	662	5.905	-38.406	-8.868	1.00103.64	C
ATOM	5180	CD1	LEU	A	662	6.330	-37.062	-8.258	1.00 94.78	C

ATOM	5181	CD2	LEU	A	662	5.999	-38.389	-10.369	1.00	96.04	C
ATOM	5182	N	PHE	A	663	8.514	-42.065	-8.141	1.00	136.15	N
ATOM	5183	CA	PHE	A	663	9.510	-42.697	-7.292	1.00	134.58	C
ATOM	5184	C	PHE	A	663	10.793	-41.908	-7.353	1.00	135.72	C
ATOM	5185	O	PHE	A	663	11.332	-41.661	-8.424	1.00	138.39	O
ATOM	5186	CB	PHE	A	663	9.777	-44.137	-7.713	1.00	155.61	C
ATOM	5187	CG	PHE	A	663	10.684	-44.880	-6.775	1.00	154.41	C
ATOM	5188	CD1	PHE	A	663	10.229	-45.292	-5.544	1.00	151.53	C
ATOM	5189	CD2	PHE	A	663	11.984	-45.168	-7.122	1.00	156.42	C
ATOM	5190	CE1	PHE	A	663	11.038	-45.978	-4.682	1.00	150.85	C
ATOM	5191	CE2	PHE	A	663	12.806	-45.854	-6.256	1.00	155.80	C
ATOM	5192	CZ	PHE	A	663	12.328	-46.256	-5.034	1.00	152.97	C
ATOM	5193	N	LEU	A	664	11.250	-41.505	-6.181	1.00	126.12	N
ATOM	5194	CA	LEU	A	664	12.521	-40.849	-5.983	1.00	127.35	C
ATOM	5195	C	LEU	A	664	13.489	-41.910	-5.525	1.00	126.74	C
ATOM	5196	O	LEU	A	664	13.373	-42.364	-4.379	1.00	124.43	O
ATOM	5197	CB	LEU	A	664	12.372	-39.849	-4.861	1.00	117.36	C
ATOM	5198	CG	LEU	A	664	11.352	-38.760	-5.121	1.00	118.13	C
ATOM	5199	CD1	LEU	A	664	10.684	-38.375	-3.831	1.00	118.04	C
ATOM	5200	CD2	LEU	A	664	12.050	-37.581	-5.748	1.00	121.58	C
ATOM	5201	N	ARG	A	665	14.423	-42.312	-6.398	1.00	130.75	N
ATOM	5202	CA	ARG	A	665	15.289	-43.468	-6.124	1.00	130.85	C
ATOM	5203	C	ARG	A	665	16.420	-43.045	-5.213	1.00	129.99	C
ATOM	5204	O	ARG	A	665	16.992	-43.859	-4.492	1.00	128.90	O
ATOM	5205	CB	ARG	A	665	15.836	-44.115	-7.412	1.00	223.43	C
ATOM	5206	CG	ARG	A	665	16.411	-45.526	-7.194	1.00	224.53	C
ATOM	5207	CD	ARG	A	665	17.288	-46.019	-8.358	1.00	229.18	C
ATOM	5208	NE	ARG	A	665	18.145	-47.144	-7.957	1.00	221.52	N
ATOM	5209	CZ	ARG	A	665	19.144	-47.651	-8.685	1.00	225.90	C
ATOM	5210	NH1	ARG	A	665	19.439	-47.145	-9.875	1.00	228.82	N1+
ATOM	5211	NH2	ARG	A	665	19.858	-48.670	-8.220	1.00	227.75	N
ATOM	5212	N	GLU	A	666	16.716	-41.753	-5.240	1.00	130.86	N
ATOM	5213	CA	GLU	A	666	17.752	-41.197	-4.401	1.00	130.66	C
ATOM	5214	C	GLU	A	666	17.287	-41.112	-2.949	1.00	127.87	C
ATOM	5215	O	GLU	A	666	18.102	-41.038	-2.043	1.00	127.65	O
ATOM	5216	CB	GLU	A	666	18.143	-39.816	-4.908	1.00	151.70	C
ATOM	5217	CG	GLU	A	666	18.056	-39.667	-6.406	1.00	154.71	C
ATOM	5218	CD	GLU	A	666	18.625	-38.348	-6.894	1.00	148.21	C
ATOM	5219	OE1	GLU	A	666	19.691	-37.923	-6.395	1.00	148.32	O
ATOM	5220	OE2	GLU	A	666	18.003	-37.731	-7.779	1.00	150.78	O1-
ATOM	5221	N	TYR	A	667	15.977	-41.116	-2.727	1.00	108.50	N
ATOM	5222	CA	TYR	A	667	15.424	-41.103	-1.372	1.00	105.93	C
ATOM	5223	C	TYR	A	667	14.588	-42.344	-1.082	1.00	103.20	C
ATOM	5224	O	TYR	A	667	13.880	-42.391	-0.086	1.00	101.36	O
ATOM	5225	CB	TYR	A	667	14.537	-39.879	-1.161	1.00	97.86	C
ATOM	5226	CG	TYR	A	667	15.257	-38.556	-1.126	1.00	101.19	C
ATOM	5227	CD1	TYR	A	667	15.366	-37.769	-2.260	1.00	104.34	C
ATOM	5228	CD2	TYR	A	667	15.807	-38.085	0.052	1.00	102.20	C
ATOM	5229	CE1	TYR	A	667	16.022	-36.551	-2.219	1.00	108.08	C
ATOM	5230	CE2	TYR	A	667	16.468	-36.877	0.107	1.00	106.38	C
ATOM	5231	CZ	TYR	A	667	16.575	-36.109	-1.026	1.00	109.30	C
ATOM	5232	OH	TYR	A	667	17.230	-34.899	-0.954	1.00	114.06	O
ATOM	5233	N	LYS	A	668	14.672	-43.339	-1.962	1.00	127.00	N
ATOM	5234	CA	LYS	A	668	13.816	-44.525	-1.904	1.00	125.38	C
ATOM	5235	C	LYS	A	668	12.423	-44.165	-1.441	1.00	123.33	C
ATOM	5236	O	LYS	A	668	11.871	-44.836	-0.581	1.00	121.76	O
ATOM	5237	CB	LYS	A	668	14.417	-45.605	-1.004	1.00	202.12	C
ATOM	5238	CG	LYS	A	668	15.455	-46.470	-1.702	1.00	196.80	C
ATOM	5239	CD	LYS	A	668	16.313	-47.219	-0.699	1.00	197.02	C
ATOM	5240	CE	LYS	A	668	17.405	-48.020	-1.386	1.00	200.16	C
ATOM	5241	NZ	LYS	A	668	18.410	-48.504	-0.403	1.00	200.66	N1+

ATOM	5242	N	SER	A	669	11.852	-43.110	-2.020	1.00134.85	N
ATOM	5243	CA	SER	A	669	10.554	-42.628	-1.549	1.00133.43	C
ATOM	5244	C	SER	A	669	9.504	-42.488	-2.647	1.00134.44	C
ATOM	5245	O	SER	A	669	9.793	-42.012	-3.731	1.00136.57	O
ATOM	5246	CB	SER	A	669	10.712	-41.303	-0.797	1.00122.06	C
ATOM	5247	OG	SER	A	669	9.554	-41.002	-0.026	1.00111.33	O
ATOM	5248	N	PHE	A	670	8.277	-42.897	-2.335	1.00127.10	N
ATOM	5249	CA	PHE	A	670	7.175	-42.853	-3.281	1.00128.06	C
ATOM	5250	C	PHE	A	670	6.335	-41.616	-3.079	1.00128.46	C
ATOM	5251	O	PHE	A	670	6.132	-41.168	-1.945	1.00127.73	O
ATOM	5252	CB	PHE	A	670	6.276	-44.067	-3.093	1.00138.56	C
ATOM	5253	CG	PHE	A	670	6.773	-45.299	-3.767	1.00139.27	C
ATOM	5254	CD1	PHE	A	670	6.688	-46.527	-3.139	1.00138.09	C
ATOM	5255	CD2	PHE	A	670	7.308	-45.241	-5.039	1.00141.59	C
ATOM	5256	CE1	PHE	A	670	7.147	-47.667	-3.763	1.00139.80	C
ATOM	5257	CE2	PHE	A	670	7.763	-46.380	-5.666	1.00143.29	C
ATOM	5258	CZ	PHE	A	670	7.691	-47.589	-5.027	1.00142.75	C
ATOM	5259	N	VAL	A	671	5.821	-41.098	-4.186	1.00118.80	N
ATOM	5260	CA	VAL	A	671	4.921	-39.958	-4.182	1.00119.87	C
ATOM	5261	C	VAL	A	671	3.670	-40.274	-5.006	1.00120.16	C
ATOM	5262	O	VAL	A	671	3.709	-41.100	-5.915	1.00120.49	O
ATOM	5263	CB	VAL	A	671	5.614	-38.730	-4.766	1.00 89.23	C
ATOM	5264	CG1	VAL	A	671	4.664	-37.562	-4.836	1.00 91.37	C
ATOM	5265	CG2	VAL	A	671	6.807	-38.386	-3.944	1.00 89.15	C
ATOM	5266	N	ILE	A	672	2.569	-39.604	-4.693	1.00106.34	N
ATOM	5267	CA	ILE	A	672	1.296	-39.825	-5.361	1.00106.69	C
ATOM	5268	C	ILE	A	672	0.615	-38.475	-5.592	1.00109.16	C
ATOM	5269	O	ILE	A	672	0.157	-37.854	-4.647	1.00109.15	O
ATOM	5270	CB	ILE	A	672	0.402	-40.697	-4.483	1.00 98.90	C
ATOM	5271	CG1	ILE	A	672	0.891	-42.144	-4.498	1.00 91.16	C
ATOM	5272	CG2	ILE	A	672	-1.011	-40.622	-4.938	1.00 93.76	C
ATOM	5273	CD1	ILE	A	672	0.118	-43.058	-3.572	1.00 95.28	C
ATOM	5274	N	LEU	A	673	0.556	-38.017	-6.837	1.00126.38	N
ATOM	5275	CA	LEU	A	673	0.017	-36.692	-7.144	1.00129.65	C
ATOM	5276	C	LEU	A	673	-1.244	-36.703	-7.990	1.00130.36	C
ATOM	5277	O	LEU	A	673	-1.648	-37.728	-8.542	1.00128.55	O
ATOM	5278	CB	LEU	A	673	1.040	-35.894	-7.937	1.00239.73	C
ATOM	5279	CG	LEU	A	673	2.349	-35.606	-7.243	1.00 81.21	C
ATOM	5280	CD1	LEU	A	673	3.361	-35.066	-8.233	1.00236.43	C
ATOM	5281	CD2	LEU	A	673	2.099	-34.620	-6.142	1.00235.87	C
ATOM	5282	N	ASP	A	674	-1.837	-35.526	-8.127	1.00115.66	N
ATOM	5283	CA	ASP	A	674	-2.838	-35.292	-9.156	1.00117.50	C
ATOM	5284	C	ASP	A	674	-2.275	-34.288	-10.164	1.00121.40	C
ATOM	5285	O	ASP	A	674	-1.367	-33.531	-9.840	1.00123.56	O
ATOM	5286	CB	ASP	A	674	-4.156	-34.805	-8.546	1.00151.48	C
ATOM	5287	CG	ASP	A	674	-4.028	-33.455	-7.865	1.00155.51	C
ATOM	5288	OD1	ASP	A	674	-3.473	-32.524	-8.486	1.00159.00	O
ATOM	5289	OD2	ASP	A	674	-4.490	-33.324	-6.709	1.00156.23	O1-
ATOM	5290	N	GLU	A	675	-2.808	-34.285	-11.380	1.00124.33	N
ATOM	5291	CA	GLU	A	675	-2.251	-33.476	-12.461	1.00127.78	C
ATOM	5292	C	GLU	A	675	-1.698	-32.124	-12.030	1.00131.04	C
ATOM	5293	O	GLU	A	675	-0.594	-31.744	-12.424	1.00133.03	O
ATOM	5294	CB	GLU	A	675	-3.291	-33.258	-13.553	1.00142.59	C
ATOM	5295	CG	GLU	A	675	-3.603	-34.491	-14.353	1.00141.41	C
ATOM	5296	CD	GLU	A	675	-3.649	-34.213	-15.838	1.00145.11	C
ATOM	5297	OE1	GLU	A	675	-2.668	-33.633	-16.367	1.00140.19	O
ATOM	5298	OE2	GLU	A	675	-4.673	-34.575	-16.466	1.00138.97	O1-
ATOM	5299	N	SER	A	676	-2.466	-31.396	-11.225	1.00146.26	N
ATOM	5300	CA	SER	A	676	-2.132	-30.007	-10.902	1.00150.88	C
ATOM	5301	C	SER	A	676	-1.003	-29.871	-9.882	1.00150.51	C
ATOM	5302	O	SER	A	676	-0.329	-28.838	-9.821	1.00152.79	O

ATOM	5303	CB	SER	A	676	-3.373	-29.228	-10.442	1.00118.98	C
ATOM	5304	OG	SER	A	676	-3.778	-29.584	-9.131	1.00111.66	O
ATOM	5305	N	LEU	A	677	-0.806	-30.909	-9.078	1.00111.41	N
ATOM	5306	CA	LEU	A	677	0.349	-30.955	-8.188	1.00110.36	C
ATOM	5307	C	LEU	A	677	1.573	-31.460	-8.969	1.00108.46	C
ATOM	5308	O	LEU	A	677	2.696	-30.968	-8.792	1.00110.22	O
ATOM	5309	CB	LEU	A	677	0.070	-31.816	-6.952	1.00 89.31	C
ATOM	5310	CG	LEU	A	677	-0.916	-31.306	-5.894	1.00 91.70	C
ATOM	5311	CD1	LEU	A	677	-0.842	-32.218	-4.702	1.00 79.75	C
ATOM	5312	CD2	LEU	A	677	-0.656	-29.845	-5.487	1.00 91.50	C
ATOM	5313	N	TYR	A	678	1.347	-32.431	-9.851	1.00105.28	N
ATOM	5314	CA	TYR	A	678	2.361	-32.786	-10.827	1.00104.57	C
ATOM	5315	C	TYR	A	678	2.856	-31.548	-11.582	1.00109.03	C
ATOM	5316	O	TYR	A	678	4.022	-31.483	-11.947	1.00109.50	O
ATOM	5317	CB	TYR	A	678	1.867	-33.850	-11.817	1.00126.14	C
ATOM	5318	CG	TYR	A	678	2.996	-34.385	-12.670	1.00125.97	C
ATOM	5319	CD1	TYR	A	678	3.659	-35.557	-12.329	1.00122.87	C
ATOM	5320	CD2	TYR	A	678	3.437	-33.688	-13.786	1.00129.04	C
ATOM	5321	CE1	TYR	A	678	4.712	-36.032	-13.093	1.00123.24	C
ATOM	5322	CE2	TYR	A	678	4.493	-34.155	-14.552	1.00129.41	C
ATOM	5323	CZ	TYR	A	678	5.126	-35.324	-14.203	1.00126.63	C
ATOM	5324	OH	TYR	A	678	6.173	-35.780	-14.968	1.00126.26	O
ATOM	5325	N	ASN	A	679	1.987	-30.566	-11.811	1.00100.36	N
ATOM	5326	CA	ASN	A	679	2.388	-29.395	-12.598	1.00103.18	C
ATOM	5327	C	ASN	A	679	2.755	-28.141	-11.789	1.00104.30	C
ATOM	5328	O	ASN	A	679	3.188	-27.124	-12.339	1.00107.07	O
ATOM	5329	CB	ASN	A	679	1.366	-29.095	-13.705	1.00132.53	C
ATOM	5330	CG	ASN	A	679	1.445	-30.092	-14.864	1.00132.40	C
ATOM	5331	ND2	ASN	A	679	0.335	-30.754	-15.136	1.00131.08	N
ATOM	5332	OD1	ASN	A	679	2.492	-30.269	-15.497	1.00132.99	O
ATOM	5333	N	SER	A	680	2.609	-28.239	-10.476	1.00113.88	N
ATOM	5334	CA	SER	A	680	2.984	-27.168	-9.567	1.00115.24	C
ATOM	5335	C	SER	A	680	4.469	-26.856	-9.677	1.00115.39	C
ATOM	5336	O	SER	A	680	5.300	-27.760	-9.679	1.00112.56	O
ATOM	5337	CB	SER	A	680	2.681	-27.611	-8.143	1.00161.77	C
ATOM	5338	OG	SER	A	680	3.416	-28.785	-7.840	1.00157.87	O
ATOM	5339	N	ALA	A	681	4.805	-25.574	-9.729	1.00126.38	N
ATOM	5340	CA	ALA	A	681	6.189	-25.148	-9.916	1.00127.27	C
ATOM	5341	C	ALA	A	681	7.206	-25.895	-9.058	1.00123.95	C
ATOM	5342	O	ALA	A	681	8.372	-25.992	-9.410	1.00123.81	O
ATOM	5343	CB	ALA	A	681	6.313	-23.654	-9.708	1.00 84.44	C
ATOM	5344	N	TYR	A	682	6.772	-26.424	-7.930	1.00133.95	N
ATOM	5345	CA	TYR	A	682	7.693	-27.122	-7.056	1.00131.09	C
ATOM	5346	C	TYR	A	682	7.999	-28.500	-7.612	1.00127.53	C
ATOM	5347	O	TYR	A	682	9.148	-28.798	-7.896	1.00127.43	O
ATOM	5348	CB	TYR	A	682	7.133	-27.195	-5.641	1.00122.18	C
ATOM	5349	CG	TYR	A	682	7.917	-28.054	-4.688	1.00118.60	C
ATOM	5350	CD1	TYR	A	682	9.000	-27.549	-3.997	1.00115.88	C
ATOM	5351	CD2	TYR	A	682	7.552	-29.366	-4.457	1.00114.40	C
ATOM	5352	CE1	TYR	A	682	9.705	-28.333	-3.114	1.00111.49	C
ATOM	5353	CE2	TYR	A	682	8.247	-30.155	-3.575	1.00111.64	C
ATOM	5354	CZ	TYR	A	682	9.322	-29.634	-2.908	1.00109.29	C
ATOM	5355	OH	TYR	A	682	10.012	-30.425	-2.030	1.00104.77	O
ATOM	5356	N	ILE	A	683	6.981	-29.334	-7.795	1.00120.22	N
ATOM	5357	CA	ILE	A	683	7.224	-30.680	-8.317	1.00117.68	C
ATOM	5358	C	ILE	A	683	7.895	-30.595	-9.675	1.00119.41	C
ATOM	5359	O	ILE	A	683	8.718	-31.437	-10.025	1.00118.63	O
ATOM	5360	CB	ILE	A	683	5.941	-31.541	-8.440	1.00 83.84	C
ATOM	5361	CG1	ILE	A	683	5.277	-31.728	-7.089	1.00 82.12	C
ATOM	5362	CG2	ILE	A	683	6.295	-32.942	-8.972	1.00 79.18	C
ATOM	5363	CD1	ILE	A	683	5.761	-32.960	-6.377	1.00 80.92	C

ATOM	5364	N	GLN	A	684	7.540	-29.566	-10.432	1.00	95.48	N
ATOM	5365	CA	GLN	A	684	8.089	-29.385	-11.763	1.00	97.39	C
ATOM	5366	C	GLN	A	684	9.556	-28.998	-11.699	1.00	98.26	C
ATOM	5367	O	GLN	A	684	10.389	-29.658	-12.302	1.00	97.69	O
ATOM	5368	CB	GLN	A	684	7.297	-28.335	-12.543	1.00	131.41	C
ATOM	5369	CG	GLN	A	684	6.057	-28.874	-13.211	1.00	130.97	C
ATOM	5370	CD	GLN	A	684	6.369	-30.047	-14.111	1.00	129.88	C
ATOM	5371	NE2	GLN	A	684	5.974	-31.241	-13.694	1.00	126.61	N
ATOM	5372	OE1	GLN	A	684	6.974	-29.882	-15.166	1.00	131.77	O
ATOM	5373	N	MET	A	685	9.865	-27.944	-10.948	1.00	114.98	N
ATOM	5374	CA	MET	A	685	11.202	-27.367	-10.913	1.00	116.94	C
ATOM	5375	C	MET	A	685	12.170	-28.032	-9.950	1.00	114.51	C
ATOM	5376	O	MET	A	685	13.368	-27.811	-10.026	1.00	115.25	O
ATOM	5377	CB	MET	A	685	11.115	-25.894	-10.574	1.00	106.98	C
ATOM	5378	CG	MET	A	685	10.477	-25.081	-11.632	1.00	111.53	C
ATOM	5379	SD	MET	A	685	10.270	-23.415	-11.040	1.00	114.40	S
ATOM	5380	CE	MET	A	685	11.951	-22.900	-10.764	1.00	110.17	C
ATOM	5381	N	PHE	A	686	11.668	-28.834	-9.030	1.00	129.08	N
ATOM	5382	CA	PHE	A	686	12.558	-29.493	-8.088	1.00	126.79	C
ATOM	5383	C	PHE	A	686	12.749	-30.959	-8.461	1.00	124.23	C
ATOM	5384	O	PHE	A	686	13.830	-31.372	-8.874	1.00	124.98	O
ATOM	5385	CB	PHE	A	686	12.028	-29.350	-6.659	1.00	127.26	C
ATOM	5386	CG	PHE	A	686	12.858	-30.049	-5.635	1.00	124.69	C
ATOM	5387	CD1	PHE	A	686	14.122	-29.606	-5.335	1.00	123.29	C
ATOM	5388	CD2	PHE	A	686	12.370	-31.149	-4.971	1.00	121.04	C
ATOM	5389	CE1	PHE	A	686	14.875	-30.250	-4.404	1.00	121.00	C
ATOM	5390	CE2	PHE	A	686	13.120	-31.792	-4.037	1.00	118.84	C
ATOM	5391	CZ	PHE	A	686	14.370	-31.347	-3.752	1.00	119.42	C
ATOM	5392	N	LEU	A	687	11.684	-31.736	-8.327	1.00	144.98	N
ATOM	5393	CA	LEU	A	687	11.727	-33.163	-8.609	1.00	142.14	C
ATOM	5394	C	LEU	A	687	12.121	-33.522	-10.054	1.00	143.09	C
ATOM	5395	O	LEU	A	687	12.782	-34.536	-10.294	1.00	141.15	O
ATOM	5396	CB	LEU	A	687	10.372	-33.786	-8.273	1.00	117.59	C
ATOM	5397	CG	LEU	A	687	10.084	-34.057	-6.808	1.00	114.52	C
ATOM	5398	CD1	LEU	A	687	8.934	-35.030	-6.681	1.00	110.84	C
ATOM	5399	CD2	LEU	A	687	11.322	-34.619	-6.179	1.00	112.59	C
ATOM	5400	N	LEU	A	688	11.703	-32.700	-11.013	1.00	103.01	N
ATOM	5401	CA	LEU	A	688	11.904	-32.994	-12.428	1.00	104.36	C
ATOM	5402	C	LEU	A	688	12.951	-32.067	-13.051	1.00	108.42	C
ATOM	5403	O	LEU	A	688	13.342	-32.223	-14.199	1.00	110.26	O
ATOM	5404	CB	LEU	A	688	10.574	-32.871	-13.175	1.00	95.69	C
ATOM	5405	CG	LEU	A	688	9.403	-33.771	-12.754	1.00	92.26	C
ATOM	5406	CD1	LEU	A	688	8.162	-33.504	-13.621	1.00	93.64	C
ATOM	5407	CD2	LEU	A	688	9.752	-35.256	-12.783	1.00	89.40	C
ATOM	5408	N	ASN	A	689	13.393	-31.093	-12.272	1.00	169.75	N
ATOM	5409	CA	ASN	A	689	14.397	-30.132	-12.708	1.00	172.52	C
ATOM	5410	C	ASN	A	689	14.130	-29.455	-14.049	1.00	175.24	C
ATOM	5411	O	ASN	A	689	15.062	-29.156	-14.780	1.00	177.25	O
ATOM	5412	CB	ASN	A	689	15.779	-30.770	-12.731	1.00	137.96	C
ATOM	5413	CG	ASN	A	689	16.872	-29.755	-12.964	1.00	140.46	C
ATOM	5414	ND2	ASN	A	689	18.044	-30.228	-13.353	1.00	141.05	N
ATOM	5415	OD1	ASN	A	689	16.664	-28.553	-12.804	1.00	142.35	O
ATOM	5416	N	GLN	A	690	12.867	-29.192	-14.365	1.00	122.83	N
ATOM	5417	CA	GLN	A	690	12.526	-28.467	-15.587	1.00	125.68	C
ATOM	5418	C	GLN	A	690	11.929	-27.086	-15.344	1.00	127.79	C
ATOM	5419	O	GLN	A	690	10.906	-26.951	-14.694	1.00	126.84	O
ATOM	5420	CB	GLN	A	690	11.564	-29.289	-16.417	1.00	189.36	C
ATOM	5421	CG	GLN	A	690	12.133	-30.603	-16.813	1.00	189.65	C
ATOM	5422	CD	GLN	A	690	11.058	-31.543	-17.216	1.00	190.85	C
ATOM	5423	NE2	GLN	A	690	11.388	-32.486	-18.087	1.00	190.82	N
ATOM	5424	OE1	GLN	A	690	9.920	-31.418	-16.763	1.00	189.60	O

ATOM	5425	N	TYR	A	691	12.552	-26.062	-15.907	1.00146.61	N
ATOM	5426	CA	TYR	A	691	12.131	-24.709	-15.620	1.00149.64	C
ATOM	5427	C	TYR	A	691	12.343	-23.729	-16.774	1.00153.86	C
ATOM	5428	O	TYR	A	691	13.408	-23.682	-17.385	1.00153.86	O
ATOM	5429	CB	TYR	A	691	12.864	-24.232	-14.383	1.00144.43	C
ATOM	5430	CG	TYR	A	691	14.332	-24.024	-14.608	1.00142.09	C
ATOM	5431	CD1	TYR	A	691	15.209	-25.096	-14.665	1.00141.37	C
ATOM	5432	CD2	TYR	A	691	14.845	-22.745	-14.757	1.00140.98	C
ATOM	5433	CE1	TYR	A	691	16.571	-24.895	-14.874	1.00139.69	C
ATOM	5434	CE2	TYR	A	691	16.194	-22.528	-14.962	1.00139.22	C
ATOM	5435	CZ	TYR	A	691	17.057	-23.602	-15.024	1.00138.43	C
ATOM	5436	OH	TYR	A	691	18.401	-23.359	-15.232	1.00137.18	O
ATOM	5437	N	ASP	A	692	11.311	-22.943	-17.059	1.00145.09	N
ATOM	5438	CA	ASP	A	692	11.336	-21.964	-18.144	1.00148.97	C
ATOM	5439	C	ASP	A	692	12.502	-20.985	-17.990	1.00146.90	C
ATOM	5440	O	ASP	A	692	12.478	-20.102	-17.137	1.00145.19	O
ATOM	5441	CB	ASP	A	692	9.998	-21.217	-18.205	1.00164.78	C
ATOM	5442	CG	ASP	A	692	9.812	-20.447	-19.496	1.00169.19	C
ATOM	5443	OD1	ASP	A	692	8.734	-20.559	-20.113	1.00169.04	O
ATOM	5444	OD2	ASP	A	692	10.742	-19.720	-19.894	1.00170.64	O1-
ATOM	5445	N	GLN	A	693	13.508	-21.143	-18.847	1.00135.45	N
ATOM	5446	CA	GLN	A	693	14.794	-20.459	-18.699	1.00133.36	C
ATOM	5447	C	GLN	A	693	14.794	-18.952	-18.982	1.00135.63	C
ATOM	5448	O	GLN	A	693	15.779	-18.262	-18.698	1.00133.94	O
ATOM	5449	CB	GLN	A	693	15.857	-21.163	-19.544	1.00148.28	C
ATOM	5450	CG	GLN	A	693	15.715	-22.672	-19.531	1.00148.65	C
ATOM	5451	CD	GLN	A	693	16.996	-23.371	-19.140	1.00147.93	C
ATOM	5452	NE2	GLN	A	693	16.909	-24.681	-18.907	1.00149.43	N
ATOM	5453	OE1	GLN	A	693	18.053	-22.744	-19.045	1.00147.61	O
ATOM	5454	N	ASP	A	694	13.694	-18.445	-19.536	1.00157.78	N
ATOM	5455	CA	ASP	A	694	13.537	-17.011	-19.772	1.00161.26	C
ATOM	5456	C	ASP	A	694	12.800	-16.353	-18.605	1.00160.91	C
ATOM	5457	O	ASP	A	694	12.463	-15.173	-18.665	1.00165.02	O
ATOM	5458	CB	ASP	A	694	12.784	-16.751	-21.085	1.00204.27	C
ATOM	5459	CG	ASP	A	694	13.541	-17.245	-22.308	1.00205.22	C
ATOM	5460	OD1	ASP	A	694	14.735	-16.904	-22.461	1.00203.96	O
ATOM	5461	OD2	ASP	A	694	12.934	-17.977	-23.120	1.00210.48	O1-
ATOM	5462	N	LEU	A	695	12.545	-17.131	-17.552	1.00148.02	N
ATOM	5463	CA	LEU	A	695	11.863	-16.652	-16.347	1.00147.26	C
ATOM	5464	C	LEU	A	695	12.757	-16.794	-15.124	1.00141.60	C
ATOM	5465	O	LEU	A	695	12.872	-15.885	-14.303	1.00141.43	O
ATOM	5466	CB	LEU	A	695	10.574	-17.445	-16.108	1.00100.16	C
ATOM	5467	CG	LEU	A	695	9.366	-17.070	-16.959	1.00106.09	C
ATOM	5468	CD1	LEU	A	695	8.061	-17.528	-16.336	1.00106.81	C
ATOM	5469	CD2	LEU	A	695	9.372	-15.578	-17.121	1.00109.81	C
ATOM	5470	N	PHE	A	696	13.392	-17.955	-15.019	1.00132.51	N
ATOM	5471	CA	PHE	A	696	14.202	-18.294	-13.866	1.00127.26	C
ATOM	5472	C	PHE	A	696	15.698	-18.422	-14.205	1.00124.97	C
ATOM	5473	O	PHE	A	696	16.136	-18.179	-15.324	1.00127.43	O
ATOM	5474	CB	PHE	A	696	13.701	-19.614	-13.267	1.00102.80	C
ATOM	5475	CG	PHE	A	696	12.242	-19.604	-12.859	1.00104.59	C
ATOM	5476	CD1	PHE	A	696	11.433	-20.691	-13.130	1.00106.40	C
ATOM	5477	CD2	PHE	A	696	11.693	-18.532	-12.182	1.00105.47	C
ATOM	5478	CE1	PHE	A	696	10.113	-20.703	-12.763	1.00108.69	C
ATOM	5479	CE2	PHE	A	696	10.356	-18.546	-11.803	1.00107.79	C
ATOM	5480	CZ	PHE	A	696	9.569	-19.635	-12.102	1.00109.32	C
ATOM	5481	N	GLU	A	697	16.473	-18.789	-13.198	1.00137.89	N
ATOM	5482	CA	GLU	A	697	17.856	-19.188	-13.347	1.00135.20	C
ATOM	5483	C	GLU	A	697	18.038	-20.089	-12.136	1.00130.83	C
ATOM	5484	O	GLU	A	697	17.628	-19.739	-11.032	1.00129.24	O
ATOM	5485	CB	GLU	A	697	18.791	-17.966	-13.327	1.00193.74	C

ATOM	5486	CG	GLU	A	697	19.785	-17.872	-12.158	1.00190.87	C
ATOM	5487	CD	GLU	A	697	21.050	-18.694	-12.366	1.00192.11	C
ATOM	5488	OE1	GLU	A	697	21.024	-19.620	-13.205	1.00193.95	O
ATOM	5489	OE2	GLU	A	697	22.068	-18.415	-11.689	1.00189.46	O1-
ATOM	5490	N	GLN	A	698	18.578	-21.281	-12.334	1.00143.23	N
ATOM	5491	CA	GLN	A	698	18.733	-22.188	-11.212	1.00139.83	C
ATOM	5492	C	GLN	A	698	19.983	-21.822	-10.452	1.00136.48	C
ATOM	5493	O	GLN	A	698	21.054	-22.354	-10.718	1.00136.45	O
ATOM	5494	CB	GLN	A	698	18.819	-23.626	-11.682	1.00116.99	C
ATOM	5495	CG	GLN	A	698	19.268	-24.578	-10.619	1.00114.29	C
ATOM	5496	CD	GLN	A	698	19.377	-25.995	-11.133	1.00121.80	C
ATOM	5497	NE2	GLN	A	698	20.606	-26.457	-11.347	1.00121.91	N
ATOM	5498	OE1	GLN	A	698	18.370	-26.667	-11.346	1.00124.53	O
ATOM	5499	N	VAL	A	699	19.842	-20.893	-9.514	1.00140.67	N
ATOM	5500	CA	VAL	A	699	20.963	-20.439	-8.708	1.00137.65	C
ATOM	5501	C	VAL	A	699	21.600	-21.595	-7.964	1.00134.91	C
ATOM	5502	O	VAL	A	699	22.807	-21.764	-8.000	1.00134.01	O
ATOM	5503	CB	VAL	A	699	20.541	-19.398	-7.681	1.00104.62	C
ATOM	5504	CG1	VAL	A	699	21.656	-19.175	-6.718	1.00101.44	C
ATOM	5505	CG2	VAL	A	699	20.166	-18.114	-8.353	1.00108.25	C
ATOM	5506	N	THR	A	700	20.810	-22.404	-7.276	1.00130.38	N
ATOM	5507	CA	THR	A	700	21.457	-23.509	-6.561	1.00128.68	C
ATOM	5508	C	THR	A	700	20.776	-24.836	-6.889	1.00131.17	C
ATOM	5509	O	THR	A	700	19.561	-24.876	-7.085	1.00132.73	O
ATOM	5510	CB	THR	A	700	21.511	-23.270	-5.021	1.00148.75	C
ATOM	5511	CG2	THR	A	700	22.692	-23.984	-4.400	1.00146.47	C
ATOM	5512	OG1	THR	A	700	21.644	-21.873	-4.749	1.00152.43	O
ATOM	5513	N	ASN	A	701	21.558	-25.913	-6.947	1.00131.16	N
ATOM	5514	CA	ASN	A	701	21.035	-27.236	-7.283	1.00134.57	C
ATOM	5515	C	ASN	A	701	21.634	-28.333	-6.407	1.00134.17	C
ATOM	5516	O	ASN	A	701	22.819	-28.627	-6.496	1.00134.54	O
ATOM	5517	CB	ASN	A	701	21.308	-27.538	-8.761	1.00159.13	C
ATOM	5518	CG	ASN	A	701	20.648	-28.823	-9.240	1.00163.79	C
ATOM	5519	ND2	ASN	A	701	20.605	-29.008	-10.556	1.00168.21	N
ATOM	5520	OD1	ASN	A	701	20.196	-29.641	-8.442	1.00163.74	O
ATOM	5521	N	ASP	A	702	20.816	-28.941	-5.561	1.00113.11	N
ATOM	5522	CA	ASP	A	702	21.276	-30.032	-4.710	1.00113.78	C
ATOM	5523	C	ASP	A	702	20.121	-31.008	-4.552	1.00116.92	C
ATOM	5524	O	ASP	A	702	18.962	-30.603	-4.552	1.00117.02	O
ATOM	5525	CB	ASP	A	702	21.740	-29.487	-3.342	1.00164.66	C
ATOM	5526	CG	ASP	A	702	22.486	-30.527	-2.483	1.00169.07	C
ATOM	5527	OD1	ASP	A	702	22.147	-31.727	-2.537	1.00173.89	O
ATOM	5528	OD2	ASP	A	702	23.408	-30.133	-1.729	1.00165.60	O1-
ATOM	5529	N	THR	A	703	20.432	-32.290	-4.433	1.00128.82	N
ATOM	5530	CA	THR	A	703	19.425	-33.294	-4.117	1.00129.00	C
ATOM	5531	C	THR	A	703	18.577	-32.896	-2.904	1.00126.23	C
ATOM	5532	O	THR	A	703	17.472	-33.407	-2.701	1.00125.70	O
ATOM	5533	CB	THR	A	703	20.110	-34.624	-3.826	1.00121.07	C
ATOM	5534	CG2	THR	A	703	19.152	-35.606	-3.169	1.00118.95	C
ATOM	5535	OG1	THR	A	703	20.595	-35.169	-5.054	1.00123.71	O
ATOM	5536	N	ARG	A	704	19.111	-31.969	-2.112	1.00128.07	N
ATOM	5537	CA	ARG	A	704	18.514	-31.562	-0.856	1.00125.28	C
ATOM	5538	C	ARG	A	704	17.628	-30.342	-1.034	1.00122.91	C
ATOM	5539	O	ARG	A	704	16.695	-30.128	-0.256	1.00121.39	O
ATOM	5540	CB	ARG	A	704	19.615	-31.254	0.149	1.00154.65	C
ATOM	5541	CG	ARG	A	704	20.574	-32.396	0.361	1.00157.97	C
ATOM	5542	CD	ARG	A	704	20.836	-32.583	1.830	1.00157.37	C
ATOM	5543	NE	ARG	A	704	21.125	-33.969	2.165	1.00159.72	N
ATOM	5544	CZ	ARG	A	704	20.510	-34.643	3.132	1.00155.83	C
ATOM	5545	NH1	ARG	A	704	19.575	-34.052	3.867	1.00147.73	N1+
ATOM	5546	NH2	ARG	A	704	20.832	-35.909	3.365	1.00156.66	N

ATOM	5547	N	ALA	A	705	17.907	-29.548	-2.063	1.00113.35	N
ATOM	5548	CA	ALA	A	705	17.169	-28.308	-2.275	1.00111.79	C
ATOM	5549	C	ALA	A	705	17.655	-27.557	-3.493	1.00112.62	C
ATOM	5550	O	ALA	A	705	18.796	-27.697	-3.891	1.00112.54	O
ATOM	5551	CB	ALA	A	705	17.295	-27.426	-1.064	1.00110.53	C
ATOM	5552	N	LYS	A	706	16.789	-26.742	-4.074	1.00 89.83	N
ATOM	5553	CA	LYS	A	706	17.180	-25.894	-5.193	1.00 90.66	C
ATOM	5554	C	LYS	A	706	16.858	-24.458	-4.889	1.00 88.91	C
ATOM	5555	O	LYS	A	706	16.099	-24.165	-3.981	1.00 87.51	O
ATOM	5556	CB	LYS	A	706	16.444	-26.302	-6.470	1.00 78.89	C
ATOM	5557	CG	LYS	A	706	16.612	-27.773	-6.827	1.00 81.76	C
ATOM	5558	CD	LYS	A	706	16.343	-28.073	-8.283	1.00 86.85	C
ATOM	5559	CE	LYS	A	706	16.696	-29.500	-8.543	1.00 89.61	C
ATOM	5560	NZ	LYS	A	706	16.373	-29.886	-9.917	1.00 92.42	N1+
ATOM	5561	N	ILE	A	707	17.415	-23.546	-5.657	1.00 90.71	N
ATOM	5562	CA	ILE	A	707	17.054	-22.150	-5.486	1.00 90.43	C
ATOM	5563	C	ILE	A	707	17.032	-21.536	-6.857	1.00 93.58	C
ATOM	5564	O	ILE	A	707	18.013	-21.667	-7.595	1.00 93.81	O
ATOM	5565	CB	ILE	A	707	18.086	-21.375	-4.625	1.00 99.37	C
ATOM	5566	CG1	ILE	A	707	18.254	-21.999	-3.244	1.00 95.76	C
ATOM	5567	CG2	ILE	A	707	17.712	-19.898	-4.497	1.00100.52	C
ATOM	5568	CD1	ILE	A	707	19.167	-21.197	-2.352	1.00 99.86	C
ATOM	5569	N	TYR	A	708	15.931	-20.882	-7.205	1.00105.65	N
ATOM	5570	CA	TYR	A	708	15.865	-20.214	-8.498	1.00109.28	C
ATOM	5571	C	TYR	A	708	15.763	-18.727	-8.269	1.00110.93	C
ATOM	5572	O	TYR	A	708	15.553	-18.295	-7.148	1.00109.47	O
ATOM	5573	CB	TYR	A	708	14.674	-20.713	-9.319	1.00 95.75	C
ATOM	5574	CG	TYR	A	708	14.775	-22.172	-9.705	1.00 95.15	C
ATOM	5575	CD1	TYR	A	708	14.605	-23.166	-8.756	1.00 92.69	C
ATOM	5576	CD2	TYR	A	708	15.055	-22.558	-11.000	1.00 97.22	C
ATOM	5577	CE1	TYR	A	708	14.710	-24.495	-9.080	1.00 93.02	C
ATOM	5578	CE2	TYR	A	708	15.159	-23.889	-11.328	1.00 97.58	C
ATOM	5579	CZ	TYR	A	708	14.981	-24.851	-10.363	1.00 95.84	C
ATOM	5580	OH	TYR	A	708	15.084	-26.183	-10.675	1.00105.45	O
ATOM	5581	N	ARG	A	709	15.924	-17.941	-9.326	1.00109.46	N
ATOM	5582	CA	ARG	A	709	15.848	-16.482	-9.226	1.00112.72	C
ATOM	5583	C	ARG	A	709	15.067	-15.898	-10.412	1.00118.53	C
ATOM	5584	O	ARG	A	709	15.100	-16.434	-11.513	1.00119.72	O
ATOM	5585	CB	ARG	A	709	17.254	-15.881	-9.119	1.00121.23	C
ATOM	5586	CG	ARG	A	709	17.353	-14.434	-9.510	1.00126.00	C
ATOM	5587	CD	ARG	A	709	18.767	-14.086	-9.955	1.00126.21	C
ATOM	5588	NE	ARG	A	709	18.764	-12.981	-10.912	1.00137.13	N
ATOM	5589	CZ	ARG	A	709	19.377	-12.998	-12.094	1.00137.42	C
ATOM	5590	NH1	ARG	A	709	20.068	-14.067	-12.472	1.00133.08	N1+
ATOM	5591	NH2	ARG	A	709	19.299	-11.941	-12.897	1.00142.64	N
ATOM	5592	N	LEU	A	710	14.324	-14.825	-10.190	1.00147.24	N
ATOM	5593	CA	LEU	A	710	13.546	-14.262	-11.282	1.00153.54	C
ATOM	5594	C	LEU	A	710	14.485	-13.422	-12.130	1.00156.48	C
ATOM	5595	O	LEU	A	710	15.427	-12.845	-11.592	1.00155.40	O
ATOM	5596	CB	LEU	A	710	12.397	-13.398	-10.757	1.00106.46	C
ATOM	5597	CG	LEU	A	710	11.263	-14.028	-9.950	1.00105.58	C
ATOM	5598	CD1	LEU	A	710	10.240	-12.964	-9.559	1.00111.57	C
ATOM	5599	CD2	LEU	A	710	10.605	-15.153	-10.725	1.00105.63	C
ATOM	5600	N	LYS	A	711	14.241	-13.356	-13.441	1.00117.67	N
ATOM	5601	CA	LYS	A	711	15.037	-12.497	-14.331	1.00121.40	C
ATOM	5602	C	LYS	A	711	14.321	-11.202	-14.759	1.00129.26	C
ATOM	5603	O	LYS	A	711	13.754	-11.103	-15.845	1.00133.81	O
ATOM	5604	CB	LYS	A	711	15.528	-13.289	-15.543	1.00144.85	C
ATOM	5605	CG	LYS	A	711	16.386	-14.506	-15.184	1.00140.44	C
ATOM	5606	CD	LYS	A	711	16.914	-15.231	-16.428	1.00141.02	C
ATOM	5607	CE	LYS	A	711	17.942	-14.386	-17.186	1.00144.33	C

ATOM	5608	NZ	LYS	A	711	18.459	-15.054	-18.416	1.00145.28	N1+
TER	5609		LYS	A	711					
HETATM	5610	MG	MG	A	725	7.238	-20.902	20.363	1.00	78.14
HETATM	5611	MG	MG	A	726	18.551	-8.728	7.448	1.00	65.51
HETATM	5612	O	HOH	A	901	8.245	-15.698	17.364	1.00	38.74
ATOM	5613	N	GLY	B	10	6.225	-32.247	17.123	0.00137.40	N
ATOM	5614	CA	GLY	B	10	4.949	-31.771	17.625	0.00136.00	C
ATOM	5615	C	GLY	B	10	5.004	-30.350	18.175	1.00139.91	C
ATOM	5616	O	GLY	B	10	4.295	-29.457	17.713	1.00139.47	O
ATOM	5617	N	ASP	B	11	5.843	-30.143	19.180	1.00	95.22
ATOM	5618	CA	ASP	B	11	5.984	-28.830	19.814	1.00	99.36
ATOM	5619	C	ASP	B	11	6.595	-27.678	19.029	1.00101.34	C
ATOM	5620	O	ASP	B	11	7.072	-26.739	19.652	1.00102.01	O
ATOM	5621	CB	ASP	B	11	6.863	-28.969	21.035	1.00100.55	C
ATOM	5622	CG	ASP	B	11	6.089	-29.278	22.244	1.00100.15	C
ATOM	5623	OD1	ASP	B	11	5.562	-28.326	22.849	1.00103.83	O
ATOM	5624	OD2	ASP	B	11	6.004	-30.474	22.581	1.00	96.33
ATOM	5625	N	GLN	B	12	6.619	-27.720	17.703	1.00	89.48
ATOM	5626	CA	GLN	B	12	7.335	-26.673	16.991	1.00	91.72
ATOM	5627	C	GLN	B	12	6.461	-25.860	16.041	1.00101.19	C
ATOM	5628	O	GLN	B	12	5.528	-26.387	15.456	1.00	98.32
ATOM	5629	CB	GLN	B	12	8.570	-27.237	16.305	1.00161.37	C
ATOM	5630	CG	GLN	B	12	9.614	-27.655	17.294	1.00147.52	C
ATOM	5631	CD	GLN	B	12	10.747	-28.386	16.647	1.00138.34	C
ATOM	5632	NE2	GLN	B	12	11.196	-27.879	15.504	1.00140.24	N
ATOM	5633	OE1	GLN	B	12	11.227	-29.399	17.165	1.00130.01	O
ATOM	5634	N	ASN	B	13	6.758	-24.564	15.915	1.00	84.63
ATOM	5635	CA	ASN	B	13	5.990	-23.672	15.071	1.00	86.29
ATOM	5636	C	ASN	B	13	6.239	-24.000	13.612	1.00	86.87
ATOM	5637	O	ASN	B	13	6.857	-23.231	12.878	1.00	87.48
ATOM	5638	CB	ASN	B	13	6.357	-22.226	15.354	1.00	86.64
ATOM	5639	CG	ASN	B	13	5.266	-21.272	14.969	1.00	89.79
ATOM	5640	ND2	ASN	B	13	4.763	-20.521	15.936	1.00	93.82
ATOM	5641	OD1	ASN	B	13	4.864	-21.203	13.813	1.00	90.59
ATOM	5642	N	ALA	B	14	5.762	-25.166	13.206	1.00101.34	N
ATOM	5643	CA	ALA	B	14	5.931	-25.642	11.851	1.00	99.99
ATOM	5644	C	ALA	B	14	4.564	-26.041	11.319	1.00	97.38
ATOM	5645	O	ALA	B	14	3.577	-26.074	12.066	1.00	97.56
ATOM	5646	CB	ALA	B	14	6.893	-26.842	11.813	1.00267.77	C
ATOM	5647	N	THR	B	15	4.520	-26.356	10.035	1.00130.89	N
ATOM	5648	CA	THR	B	15	3.304	-26.829	9.408	1.00129.51	C
ATOM	5649	C	THR	B	15	3.222	-28.348	9.458	1.00121.11	C
ATOM	5650	O	THR	B	15	4.237	-29.024	9.513	1.00116.50	O
ATOM	5651	CB	THR	B	15	3.215	-26.349	7.962	1.00	95.48
ATOM	5652	CG2	THR	B	15	2.079	-27.058	7.248	1.00	97.08
ATOM	5653	OG1	THR	B	15	2.998	-24.929	7.954	1.00101.80	O
TER	5654		THR	B	15					
HETATM	5655	N	PPN	B	16	1.996	-28.853	9.534	1.00118.43	N
HETATM	5656	CA	PPN	B	16	1.646	-30.214	9.225	1.00112.66	C
HETATM	5657	C	PPN	B	16	0.212	-30.058	8.834	1.00117.55	C
HETATM	5658	O	PPN	B	16	-0.329	-28.966	9.142	1.00118.14	O
HETATM	5659	CB	PPN	B	16	1.690	-31.092	10.416	1.00111.33	C
HETATM	5660	CG	PPN	B	16	0.440	-30.774	11.156	1.00114.71	C
HETATM	5661	CD1	PPN	B	16	-0.703	-31.540	11.007	1.00114.68	C
HETATM	5662	CD2	PPN	B	16	0.424	-29.671	11.983	1.00119.20	C
HETATM	5663	CE1	PPN	B	16	-1.860	-31.200	11.690	1.00119.79	C
HETATM	5664	CE2	PPN	B	16	-0.726	-29.330	12.671	1.00123.57	C
HETATM	5665	CZ	PPN	B	16	-1.873	-30.092	12.528	1.00124.26	C
HETATM	5666	N1	PPN	B	16	-3.040	-29.712	13.271	1.00130.64	N
HETATM	5667	O1	PPN	B	16	-3.089	-28.598	13.773	1.00135.59	O
HETATM	5668	O2	PPN	B	16	-4.036	-30.532	13.438	1.00131.91	O

ATOM	5669	N	GLY B	17	-0.437	-31.032	8.185	1.00114.32	N
ATOM	5670	CA	GLY B	17	0.188	-32.283	7.792	0.00113.36	C
ATOM	5671	C	GLY B	17	-0.751	-33.174	6.997	0.00120.47	C
ATOM	5672	O	GLY B	17	-0.916	-32.995	5.792	0.00122.60	O
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