

1	ATOM	1	N	GLY	P	1	3.936	-19.380	8.669	0.00	0.00	PROA
2	ATOM	2	HT1	GLY	P	1	3.290	-19.159	7.884	0.00	0.00	PROA
3	ATOM	3	HT2	GLY	P	1	3.882	-20.401	8.863	0.00	0.00	PROA
4	ATOM	4	HT3	GLY	P	1	4.891	-19.011	8.488	0.00	0.00	PROA
5	ATOM	5	CA	GLY	P	1	3.433	-18.571	9.803	0.00	0.00	PROA
6	ATOM	6	HA1	GLY	P	1	3.981	-18.870	10.684	0.00	0.00	PROA
7	ATOM	7	HA2	GLY	P	1	2.400	-18.778	10.038	0.00	0.00	PROA
8	ATOM	8	C	GLY	P	1	3.845	-17.012	9.630	0.00	0.00	PROA
9	ATOM	9	O	GLY	P	1	3.548	-16.410	8.577	0.00	0.00	PROA
10	ATOM	10	N	GLN	P	2	4.657	-16.445	10.601	0.00	0.00	PROA
11	ATOM	11	HN	GLN	P	2	4.776	-16.885	11.487	0.00	0.00	PROA
12	ATOM	12	CA	GLN	P	2	5.098	-15.034	10.507	0.00	0.00	PROA
13	ATOM	13	HA	GLN	P	2	5.399	-14.895	9.479	0.00	0.00	PROA
14	ATOM	14	CB	GLN	P	2	3.913	-14.060	10.714	0.00	0.00	PROA
15	ATOM	15	HB1	GLN	P	2	3.276	-14.465	9.899	0.00	0.00	PROA
16	ATOM	16	HB2	GLN	P	2	4.245	-13.052	10.384	0.00	0.00	PROA
17	ATOM	17	CG	GLN	P	2	3.164	-14.019	12.085	0.00	0.00	PROA
18	ATOM	18	HG1	GLN	P	2	3.780	-13.297	12.664	0.00	0.00	PROA
19	ATOM	19	HG2	GLN	P	2	2.974	-15.011	12.547	0.00	0.00	PROA
20	ATOM	20	CD	GLN	P	2	1.767	-13.351	11.985	0.00	0.00	PROA
21	ATOM	21	OE1	GLN	P	2	0.848	-13.704	12.707	0.00	0.00	PROA
22	ATOM	22	NE2	GLN	P	2	1.552	-12.353	11.147	0.00	0.00	PROA
23	ATOM	23	HE21	GLN	P	2	0.650	-11.924	11.200	0.00	0.00	PROA
24	ATOM	24	HE22	GLN	P	2	2.239	-11.793	10.685	0.00	0.00	PROA
25	ATOM	25	C	GLN	P	2	6.303	-14.696	11.409	0.00	0.00	PROA
26	ATOM	26	O	GLN	P	2	6.824	-13.554	11.400	0.00	0.00	PROA
27	ATOM	27	N	GLU	P	3	6.922	-15.641	12.209	0.00	0.00	PROA
28	ATOM	28	HN	GLU	P	3	6.680	-16.608	12.181	0.00	0.00	PROA
29	ATOM	29	CA	GLU	P	3	8.044	-15.296	13.111	0.00	0.00	PROA
30	ATOM	30	HA	GLU	P	3	7.823	-14.294	13.448	0.00	0.00	PROA
31	ATOM	31	CB	GLU	P	3	8.092	-16.386	14.219	0.00	0.00	PROA
32	ATOM	32	HB1	GLU	P	3	9.042	-16.401	14.794	0.00	0.00	PROA
33	ATOM	33	HB2	GLU	P	3	8.150	-17.384	13.733	0.00	0.00	PROA
34	ATOM	34	CG	GLU	P	3	6.927	-16.368	15.202	0.00	0.00	PROA
35	ATOM	35	HG1	GLU	P	3	5.975	-16.305	14.633	0.00	0.00	PROA
36	ATOM	36	HG2	GLU	P	3	6.739	-15.457	15.808	0.00	0.00	PROA
37	ATOM	37	CD	GLU	P	3	6.803	-17.605	16.014	0.00	0.00	PROA
38	ATOM	38	OE1	GLU	P	3	6.005	-18.451	15.588	0.00	0.00	PROA
39	ATOM	39	OE2	GLU	P	3	7.400	-17.757	17.134	0.00	0.00	PROA
40	ATOM	40	C	GLU	P	3	9.423	-15.236	12.405	0.00	0.00	PROA
41	ATOM	41	O	GLU	P	3	9.626	-15.788	11.325	0.00	0.00	PROA
42	ATOM	42	N	ASP	P	4	10.451	-14.508	12.966	0.00	0.00	PROA
43	ATOM	43	HN	ASP	P	4	10.377	-13.998	13.819	0.00	0.00	PROA
44	ATOM	44	CA	ASP	P	4	11.707	-14.246	12.447	0.00	0.00	PROA
45	ATOM	45	HA	ASP	P	4	11.533	-13.953	11.422	0.00	0.00	PROA
46	ATOM	46	CB	ASP	P	4	12.438	-13.071	13.302	0.00	0.00	PROA
47	ATOM	47	HB1	ASP	P	4	13.541	-13.176	13.210	0.00	0.00	PROA
48	ATOM	48	HB2	ASP	P	4	12.155	-13.185	14.370	0.00	0.00	PROA
49	ATOM	49	CG	ASP	P	4	12.134	-11.644	12.953	0.00	0.00	PROA
50	ATOM	50	OD1	ASP	P	4	12.555	-10.767	13.791	0.00	0.00	PROA
51	ATOM	51	OD2	ASP	P	4	11.806	-11.403	11.761	0.00	0.00	PROA
52	ATOM	52	C	ASP	P	4	12.677	-15.508	12.293	0.00	0.00	PROA
53	ATOM	53	O	ASP	P	4	13.434	-15.471	11.358	0.00	0.00	PROA
54	ATOM	54	N	PRO	P	5	12.626	-16.504	13.193	0.00	0.00	PROA
55	ATOM	55	CD	PRO	P	5	13.234	-17.854	12.837	0.00	0.00	PROA
56	ATOM	56	HD1	PRO	P	5	14.345	-17.851	12.859	0.00	0.00	PROA
57	ATOM	57	HD2	PRO	P	5	12.744	-18.204	11.904	0.00	0.00	PROA
58	ATOM	58	CA	PRO	P	5	12.299	-16.491	14.635	0.00	0.00	PROA
59	ATOM	59	HA	PRO	P	5	11.229	-16.443	14.773	0.00	0.00	PROA
60	ATOM	60	CB	PRO	P	5	12.640	-17.909	15.102	0.00	0.00	PROA
61	ATOM	61	HB1	PRO	P	5	11.884	-18.349	15.787	0.00	0.00	PROA
62	ATOM	62	HB2	PRO	P	5	13.618	-17.965	15.627	0.00	0.00	PROA
63	ATOM	63	CG	PRO	P	5	12.761	-18.717	13.908	0.00	0.00	PROA
64	ATOM	64	HG1	PRO	P	5	13.581	-19.453	14.045	0.00	0.00	PROA
65	ATOM	65	HG2	PRO	P	5	11.868	-19.303	13.603	0.00	0.00	PROA
66	ATOM	66	C	PRO	P	5	13.003	-15.422	15.556	0.00	0.00	PROA
67	ATOM	67	O	PRO	P	5	14.188	-15.081	15.390	0.00	0.00	PROA
68	ATOM	68	N	ASN	P	6	12.268	-14.865	16.526	0.00	0.00	PROA
69	ATOM	69	HN	ASN	P	6	11.344	-15.160	16.758	0.00	0.00	PROA
70	ATOM	70	CA	ASN	P	6	12.666	-13.756	17.400	0.00	0.00	PROA
71	ATOM	71	HA	ASN	P	6	12.734	-12.854	16.810	0.00	0.00	PROA
72	ATOM	72	CB	ASN	P	6	11.754	-13.509	18.571	0.00	0.00	PROA
73	ATOM	73	HB1	ASN	P	6	12.102	-12.629	19.152	0.00	0.00	PROA

74	ATOM	74	HB2	ASN	P	6	11.729	-14.314	19.336	0.00	0.00	PROA
75	ATOM	75	CG	ASN	P	6	10.395	-13.159	18.048	0.00	0.00	PROA
76	ATOM	76	OD1	ASN	P	6	10.126	-12.007	17.585	0.00	0.00	PROA
77	ATOM	77	ND2	ASN	P	6	9.387	-14.074	18.070	0.00	0.00	PROA
78	ATOM	78	HD21	ASN	P	6	9.608	-15.047	18.007	0.00	0.00	PROA
79	ATOM	79	HD22	ASN	P	6	8.540	-13.737	17.661	0.00	0.00	PROA
80	ATOM	80	C	ASN	P	6	14.033	-13.815	17.951	0.00	0.00	PROA
81	ATOM	81	O	ASN	P	6	14.329	-14.823	18.657	0.00	0.00	PROA
82	ATOM	82	N	SER	P	7	14.886	-12.739	17.708	0.00	0.00	PROA
83	ATOM	83	HN	SER	P	7	14.432	-11.922	17.360	0.00	0.00	PROA
84	ATOM	84	CA	SER	P	7	16.277	-12.594	17.942	0.00	0.00	PROA
85	ATOM	85	HA	SER	P	7	16.534	-11.596	17.621	0.00	0.00	PROA
86	ATOM	86	CB	SER	P	7	16.491	-12.563	19.483	0.00	0.00	PROA
87	ATOM	87	HB1	SER	P	7	16.670	-13.569	19.920	0.00	0.00	PROA
88	ATOM	88	HB2	SER	P	7	15.595	-12.081	19.929	0.00	0.00	PROA
89	ATOM	89	OG	SER	P	7	17.743	-11.947	19.717	0.00	0.00	PROA
90	ATOM	90	HG1	SER	P	7	17.910	-12.000	20.661	0.00	0.00	PROA
91	ATOM	91	C	SER	P	7	17.200	-13.470	17.175	0.00	0.00	PROA
92	ATOM	92	O	SER	P	7	18.343	-13.012	16.923	0.00	0.00	PROA
93	ATOM	93	N	LEU	P	8	16.874	-14.707	16.860	0.00	0.00	PROA
94	ATOM	94	HN	LEU	P	8	16.036	-15.130	17.195	0.00	0.00	PROA
95	ATOM	95	CA	LEU	P	8	17.642	-15.544	15.920	0.00	0.00	PROA
96	ATOM	96	HA	LEU	P	8	18.665	-15.637	16.254	0.00	0.00	PROA
97	ATOM	97	CB	LEU	P	8	16.965	-16.951	16.078	0.00	0.00	PROA
98	ATOM	98	HB1	LEU	P	8	15.980	-17.017	15.569	0.00	0.00	PROA
99	ATOM	99	HB2	LEU	P	8	16.789	-17.084	17.167	0.00	0.00	PROA
100	ATOM	100	CG	LEU	P	8	17.748	-18.150	15.567	0.00	0.00	PROA
101	ATOM	101	HG	LEU	P	8	17.927	-18.098	14.472	0.00	0.00	PROA
102	ATOM	102	CD1	LEU	P	8	19.144	-18.369	16.194	0.00	0.00	PROA
103	ATOM	103	HD11	LEU	P	8	19.046	-18.701	17.250	0.00	0.00	PROA
104	ATOM	104	HD12	LEU	P	8	19.740	-17.440	16.072	0.00	0.00	PROA
105	ATOM	105	HD13	LEU	P	8	19.621	-19.243	15.701	0.00	0.00	PROA
106	ATOM	106	CD2	LEU	P	8	16.764	-19.346	15.768	0.00	0.00	PROA
107	ATOM	107	HD21	LEU	P	8	16.298	-19.250	16.772	0.00	0.00	PROA
108	ATOM	108	HD22	LEU	P	8	17.303	-20.299	15.577	0.00	0.00	PROA
109	ATOM	109	HD23	LEU	P	8	16.005	-19.184	14.973	0.00	0.00	PROA
110	ATOM	110	C	LEU	P	8	17.674	-15.282	14.428	0.00	0.00	PROA
111	ATOM	111	O	LEU	P	8	18.745	-15.164	13.860	0.00	0.00	PROA
112	ATOM	112	N	ARG	P	9	16.458	-14.988	13.819	0.00	0.00	PROA
113	ATOM	113	HN	ARG	P	9	15.579	-14.905	14.282	0.00	0.00	PROA
114	ATOM	114	CA	ARG	P	9	16.391	-14.390	12.486	0.00	0.00	PROA
115	ATOM	115	HA	ARG	P	9	15.347	-14.381	12.212	0.00	0.00	PROA
116	ATOM	116	CB	ARG	P	9	16.952	-12.954	12.445	0.00	0.00	PROA
117	ATOM	117	HB1	ARG	P	9	16.638	-12.556	11.456	0.00	0.00	PROA
118	ATOM	118	HB2	ARG	P	9	18.048	-12.932	12.624	0.00	0.00	PROA
119	ATOM	119	CG	ARG	P	9	16.214	-12.004	13.438	0.00	0.00	PROA
120	ATOM	120	HG1	ARG	P	9	16.298	-12.506	14.426	0.00	0.00	PROA
121	ATOM	121	HG2	ARG	P	9	15.176	-11.762	13.127	0.00	0.00	PROA
122	ATOM	122	CD	ARG	P	9	17.025	-10.781	13.656	0.00	0.00	PROA
123	ATOM	123	HD1	ARG	P	9	17.046	-10.195	12.712	0.00	0.00	PROA
124	ATOM	124	HD2	ARG	P	9	18.051	-11.089	13.951	0.00	0.00	PROA
125	ATOM	125	NE	ARG	P	9	16.325	-9.986	14.745	0.00	0.00	PROA
126	ATOM	126	HE	ARG	P	9	15.475	-10.288	15.178	0.00	0.00	PROA
127	ATOM	127	CZ	ARG	P	9	16.548	-8.695	14.891	0.00	0.00	PROA
128	ATOM	128	NH1	ARG	P	9	17.317	-7.978	14.130	0.00	0.00	PROA
129	ATOM	129	HH11	ARG	P	9	17.566	-7.039	14.369	0.00	0.00	PROA
130	ATOM	130	HH12	ARG	P	9	17.717	-8.419	13.326	0.00	0.00	PROA
131	ATOM	131	NH2	ARG	P	9	16.080	-8.069	15.960	0.00	0.00	PROA
132	ATOM	132	HH21	ARG	P	9	15.876	-8.644	16.753	0.00	0.00	PROA
133	ATOM	133	HH22	ARG	P	9	16.267	-7.091	16.044	0.00	0.00	PROA
134	ATOM	134	C	ARG	P	9	16.875	-15.265	11.440	0.00	0.00	PROA
135	ATOM	135	O	ARG	P	9	18.034	-15.074	10.989	0.00	0.00	PROA
136	ATOM	136	N	HSD	P	10	16.096	-16.291	10.966	0.00	0.00	PROA
137	ATOM	137	HN	HSD	P	10	15.128	-16.290	11.204	0.00	0.00	PROA
138	ATOM	138	CA	HSD	P	10	16.508	-17.291	10.013	0.00	0.00	PROA
139	ATOM	139	HA	HSD	P	10	17.472	-17.016	9.611	0.00	0.00	PROA
140	ATOM	140	CB	HSD	P	10	16.649	-18.687	10.570	0.00	0.00	PROA
141	ATOM	141	HB1	HSD	P	10	16.813	-19.533	9.869	0.00	0.00	PROA
142	ATOM	142	HB2	HSD	P	10	15.717	-18.831	11.158	0.00	0.00	PROA
143	ATOM	143	ND1	HSD	P	10	18.165	-19.815	12.400	0.00	0.00	PROA
144	ATOM	144	HD1	HSD	P	10	17.657	-20.676	12.425	0.00	0.00	PROA
145	ATOM	145	CG	HSD	P	10	17.913	-18.769	11.486	0.00	0.00	PROA
146	ATOM	146	CE1	HSD	P	10	19.432	-19.594	12.824	0.00	0.00	PROA

147	ATOM	147	HE1	HSD	P	10	19.881	-20.327	13.495	0.00	0.00	PROA
148	ATOM	148	NE2	HSD	P	10	19.966	-18.505	12.332	0.00	0.00	PROA
149	ATOM	149	CD2	HSD	P	10	19.003	-17.985	11.530	0.00	0.00	PROA
150	ATOM	150	HD2	HSD	P	10	19.145	-17.122	10.891	0.00	0.00	PROA
151	ATOM	151	C	HSD	P	10	15.513	-17.269	8.812	0.00	0.00	PROA
152	ATOM	152	O	HSD	P	10	15.481	-18.165	8.033	0.00	0.00	PROA
153	ATOM	153	N	LYS	P	11	14.602	-16.260	8.687	0.00	0.00	PROA
154	ATOM	154	HN	LYS	P	11	14.660	-15.609	9.440	0.00	0.00	PROA
155	ATOM	155	CA	LYS	P	11	13.471	-16.250	7.775	0.00	0.00	PROA
156	ATOM	156	HA	LYS	P	11	12.938	-17.182	7.894	0.00	0.00	PROA
157	ATOM	157	CB	LYS	P	11	12.616	-15.001	8.078	0.00	0.00	PROA
158	ATOM	158	HB1	LYS	P	11	13.242	-14.142	7.753	0.00	0.00	PROA
159	ATOM	159	HB2	LYS	P	11	12.448	-14.857	9.167	0.00	0.00	PROA
160	ATOM	160	CG	LYS	P	11	11.272	-14.996	7.335	0.00	0.00	PROA
161	ATOM	161	HG1	LYS	P	11	10.835	-16.016	7.379	0.00	0.00	PROA
162	ATOM	162	HG2	LYS	P	11	11.347	-14.659	6.279	0.00	0.00	PROA
163	ATOM	163	CD	LYS	P	11	10.405	-13.950	8.078	0.00	0.00	PROA
164	ATOM	164	HD1	LYS	P	11	10.391	-14.324	9.124	0.00	0.00	PROA
165	ATOM	165	HD2	LYS	P	11	9.383	-14.196	7.717	0.00	0.00	PROA
166	ATOM	166	CE	LYS	P	11	10.842	-12.587	7.805	0.00	0.00	PROA
167	ATOM	167	HE1	LYS	P	11	10.433	-12.167	6.861	0.00	0.00	PROA
168	ATOM	168	HE2	LYS	P	11	11.906	-12.268	7.828	0.00	0.00	PROA
169	ATOM	169	NZ	LYS	P	11	10.135	-11.864	8.835	0.00	0.00	PROA
170	ATOM	170	HZ1	LYS	P	11	10.335	-10.858	8.663	0.00	0.00	PROA
171	ATOM	171	HZ2	LYS	P	11	10.435	-12.105	9.801	0.00	0.00	PROA
172	ATOM	172	HZ3	LYS	P	11	9.096	-11.870	8.784	0.00	0.00	PROA
173	ATOM	173	C	LYS	P	11	13.766	-16.215	6.269	0.00	0.00	PROA
174	ATOM	174	O	LYS	P	11	13.101	-16.841	5.448	0.00	0.00	PROA
175	ATOM	175	N	TYR	P	12	14.826	-15.548	5.789	0.00	0.00	PROA
176	ATOM	176	HN	TYR	P	12	15.532	-15.165	6.379	0.00	0.00	PROA
177	ATOM	177	CA	TYR	P	12	15.008	-15.265	4.356	0.00	0.00	PROA
178	ATOM	178	HA	TYR	P	12	14.086	-15.453	3.825	0.00	0.00	PROA
179	ATOM	179	CB	TYR	P	12	15.616	-13.817	4.050	0.00	0.00	PROA
180	ATOM	180	HB1	TYR	P	12	15.702	-13.769	2.944	0.00	0.00	PROA
181	ATOM	181	HB2	TYR	P	12	16.515	-13.684	4.689	0.00	0.00	PROA
182	ATOM	182	CG	TYR	P	12	14.662	-12.741	4.417	0.00	0.00	PROA
183	ATOM	183	CD1	TYR	P	12	14.691	-12.293	5.747	0.00	0.00	PROA
184	ATOM	184	HD1	TYR	P	12	15.474	-12.626	6.412	0.00	0.00	PROA
185	ATOM	185	CE1	TYR	P	12	13.820	-11.317	6.187	0.00	0.00	PROA
186	ATOM	186	HE1	TYR	P	12	13.873	-11.000	7.218	0.00	0.00	PROA
187	ATOM	187	CZ	TYR	P	12	12.816	-10.778	5.309	0.00	0.00	PROA
188	ATOM	188	OH	TYR	P	12	11.828	-9.995	5.772	0.00	0.00	PROA
189	ATOM	189	HH	TYR	P	12	11.368	-9.564	5.048	0.00	0.00	PROA
190	ATOM	190	CD2	TYR	P	12	13.813	-12.106	3.529	0.00	0.00	PROA
191	ATOM	191	HD2	TYR	P	12	13.740	-12.492	2.523	0.00	0.00	PROA
192	ATOM	192	CE2	TYR	P	12	12.847	-11.169	3.998	0.00	0.00	PROA
193	ATOM	193	HE2	TYR	P	12	12.023	-10.990	3.323	0.00	0.00	PROA
194	ATOM	194	C	TYR	P	12	15.870	-16.369	3.781	0.00	0.00	PROA
195	ATOM	195	O	TYR	P	12	15.918	-16.557	2.560	0.00	0.00	PROA
196	ATOM	196	N	ASN	P	13	16.387	-17.240	4.688	0.00	0.00	PROA
197	ATOM	197	HN	ASN	P	13	16.381	-17.075	5.671	0.00	0.00	PROA
198	ATOM	198	CA	ASN	P	13	16.938	-18.529	4.296	0.00	0.00	PROA
199	ATOM	199	HA	ASN	P	13	17.460	-18.549	3.350	0.00	0.00	PROA
200	ATOM	200	CB	ASN	P	13	17.977	-18.930	5.265	0.00	0.00	PROA
201	ATOM	201	HB1	ASN	P	13	18.217	-20.014	5.280	0.00	0.00	PROA
202	ATOM	202	HB2	ASN	P	13	17.409	-18.553	6.143	0.00	0.00	PROA
203	ATOM	203	CG	ASN	P	13	19.271	-18.158	5.089	0.00	0.00	PROA
204	ATOM	204	OD1	ASN	P	13	19.550	-17.407	6.031	0.00	0.00	PROA
205	ATOM	205	ND2	ASN	P	13	20.023	-18.385	3.988	0.00	0.00	PROA
206	ATOM	206	HD21	ASN	P	13	19.849	-19.198	3.432	0.00	0.00	PROA
207	ATOM	207	HD22	ASN	P	13	20.962	-18.044	3.944	0.00	0.00	PROA
208	ATOM	208	C	ASN	P	13	15.846	-19.582	4.115	0.00	0.00	PROA
209	ATOM	209	O	ASN	P	13	16.007	-20.405	3.177	0.00	0.00	PROA
210	ATOM	210	N	PHE	P	14	14.700	-19.482	4.788	0.00	0.00	PROA
211	ATOM	211	HN	PHE	P	14	14.766	-19.140	5.722	0.00	0.00	PROA
212	ATOM	212	CA	PHE	P	14	13.368	-20.086	4.490	0.00	0.00	PROA
213	ATOM	213	HA	PHE	P	14	13.481	-21.156	4.592	0.00	0.00	PROA
214	ATOM	214	CB	PHE	P	14	12.234	-19.857	5.568	0.00	0.00	PROA
215	ATOM	215	HB1	PHE	P	14	11.407	-20.571	5.369	0.00	0.00	PROA
216	ATOM	216	HB2	PHE	P	14	11.829	-18.825	5.484	0.00	0.00	PROA
217	ATOM	217	CG	PHE	P	14	12.620	-20.146	7.063	0.00	0.00	PROA
218	ATOM	218	CD1	PHE	P	14	11.803	-19.544	8.059	0.00	0.00	PROA
219	ATOM	219	HD1	PHE	P	14	10.923	-18.990	7.768	0.00	0.00	PROA

220	ATOM	220	CE1	PHE	P	14	12.167	-19.758	9.400	0.00	0.00	PROA
221	ATOM	221	HE1	PHE	P	14	11.585	-19.264	10.164	0.00	0.00	PROA
222	ATOM	222	CZ	PHE	P	14	13.328	-20.568	9.737	0.00	0.00	PROA
223	ATOM	223	HZ	PHE	P	14	13.588	-20.667	10.780	0.00	0.00	PROA
224	ATOM	224	CD2	PHE	P	14	13.743	-21.003	7.393	0.00	0.00	PROA
225	ATOM	225	HD2	PHE	P	14	14.266	-21.406	6.538	0.00	0.00	PROA
226	ATOM	226	CE2	PHE	P	14	14.084	-21.142	8.757	0.00	0.00	PROA
227	ATOM	227	HE2	PHE	P	14	15.018	-21.663	8.905	0.00	0.00	PROA
228	ATOM	228	C	PHE	P	14	12.823	-19.771	3.058	0.00	0.00	PROA
229	ATOM	229	O	PHE	P	14	12.476	-20.724	2.341	0.00	0.00	PROA
230	ATOM	230	N	ILE	P	15	12.854	-18.483	2.682	0.00	0.00	PROA
231	ATOM	231	HN	ILE	P	15	13.081	-17.779	3.350	0.00	0.00	PROA
232	ATOM	232	CA	ILE	P	15	12.656	-18.053	1.368	0.00	0.00	PROA
233	ATOM	233	HA	ILE	P	15	11.654	-18.400	1.161	0.00	0.00	PROA
234	ATOM	234	CB	ILE	P	15	12.591	-16.542	1.182	0.00	0.00	PROA
235	ATOM	235	HB	ILE	P	15	13.528	-16.110	1.592	0.00	0.00	PROA
236	ATOM	236	CG2	ILE	P	15	12.414	-16.242	-0.288	0.00	0.00	PROA
237	ATOM	237	HG21	ILE	P	15	11.536	-16.680	-0.808	0.00	0.00	PROA
238	ATOM	238	HG22	ILE	P	15	13.313	-16.555	-0.862	0.00	0.00	PROA
239	ATOM	239	HG23	ILE	P	15	12.356	-15.139	-0.409	0.00	0.00	PROA
240	ATOM	240	CG1	ILE	P	15	11.408	-16.038	2.035	0.00	0.00	PROA
241	ATOM	241	HG11	ILE	P	15	11.870	-16.148	3.040	0.00	0.00	PROA
242	ATOM	242	HG12	ILE	P	15	10.569	-16.767	2.018	0.00	0.00	PROA
243	ATOM	243	CD	ILE	P	15	10.863	-14.659	1.691	0.00	0.00	PROA
244	ATOM	244	HD1	ILE	P	15	10.110	-14.292	2.420	0.00	0.00	PROA
245	ATOM	245	HD2	ILE	P	15	10.338	-14.704	0.713	0.00	0.00	PROA
246	ATOM	246	HD3	ILE	P	15	11.695	-13.925	1.636	0.00	0.00	PROA
247	ATOM	247	C	ILE	P	15	13.614	-18.773	0.396	0.00	0.00	PROA
248	ATOM	248	O	ILE	P	15	13.189	-19.087	-0.669	0.00	0.00	PROA
249	ATOM	249	N	ALA	P	16	14.915	-18.992	0.719	0.00	0.00	PROA
250	ATOM	250	HN	ALA	P	16	15.294	-18.504	1.502	0.00	0.00	PROA
251	ATOM	251	CA	ALA	P	16	15.827	-19.713	-0.145	0.00	0.00	PROA
252	ATOM	252	HA	ALA	P	16	15.657	-19.307	-1.132	0.00	0.00	PROA
253	ATOM	253	CB	ALA	P	16	17.307	-19.519	0.226	0.00	0.00	PROA
254	ATOM	254	HB1	ALA	P	16	17.512	-18.436	0.089	0.00	0.00	PROA
255	ATOM	255	HB2	ALA	P	16	17.995	-20.031	-0.481	0.00	0.00	PROA
256	ATOM	256	HB3	ALA	P	16	17.494	-19.925	1.243	0.00	0.00	PROA
257	ATOM	257	C	ALA	P	16	15.512	-21.186	-0.213	0.00	0.00	PROA
258	ATOM	258	O	ALA	P	16	15.573	-21.752	-1.364	0.00	0.00	PROA
259	ATOM	259	N	ASP	P	17	15.061	-21.934	0.848	0.00	0.00	PROA
260	ATOM	260	HN	ASP	P	17	15.267	-21.571	1.753	0.00	0.00	PROA
261	ATOM	261	CA	ASP	P	17	14.435	-23.309	0.724	0.00	0.00	PROA
262	ATOM	262	HA	ASP	P	17	15.131	-23.955	0.209	0.00	0.00	PROA
263	ATOM	263	CB	ASP	P	17	14.144	-24.003	2.015	0.00	0.00	PROA
264	ATOM	264	HB1	ASP	P	17	13.631	-24.965	1.801	0.00	0.00	PROA
265	ATOM	265	HB2	ASP	P	17	13.560	-23.332	2.681	0.00	0.00	PROA
266	ATOM	266	CG	ASP	P	17	15.420	-24.296	2.724	0.00	0.00	PROA
267	ATOM	267	OD1	ASP	P	17	16.473	-24.594	2.170	0.00	0.00	PROA
268	ATOM	268	OD2	ASP	P	17	15.359	-24.369	3.983	0.00	0.00	PROA
269	ATOM	269	C	ASP	P	17	13.241	-23.314	-0.198	0.00	0.00	PROA
270	ATOM	270	O	ASP	P	17	13.108	-24.233	-1.025	0.00	0.00	PROA
271	ATOM	271	N	VAL	P	18	12.459	-22.256	-0.163	0.00	0.00	PROA
272	ATOM	272	HN	VAL	P	18	12.753	-21.404	0.264	0.00	0.00	PROA
273	ATOM	273	CA	VAL	P	18	11.349	-22.064	-1.134	0.00	0.00	PROA
274	ATOM	274	HA	VAL	P	18	10.835	-23.005	-1.255	0.00	0.00	PROA
275	ATOM	275	CB	VAL	P	18	10.308	-20.975	-0.735	0.00	0.00	PROA
276	ATOM	276	HB	VAL	P	18	10.727	-19.987	-0.448	0.00	0.00	PROA
277	ATOM	277	CG1	VAL	P	18	9.218	-20.729	-1.803	0.00	0.00	PROA
278	ATOM	278	HG11	VAL	P	18	9.620	-20.151	-2.662	0.00	0.00	PROA
279	ATOM	279	HG12	VAL	P	18	8.440	-20.110	-1.307	0.00	0.00	PROA
280	ATOM	280	HG13	VAL	P	18	8.839	-21.703	-2.181	0.00	0.00	PROA
281	ATOM	281	CG2	VAL	P	18	9.613	-21.553	0.494	0.00	0.00	PROA
282	ATOM	282	HG21	VAL	P	18	9.008	-20.714	0.898	0.00	0.00	PROA
283	ATOM	283	HG22	VAL	P	18	10.412	-21.722	1.248	0.00	0.00	PROA
284	ATOM	284	HG23	VAL	P	18	8.970	-22.455	0.401	0.00	0.00	PROA
285	ATOM	285	C	VAL	P	18	11.663	-21.751	-2.567	0.00	0.00	PROA
286	ATOM	286	O	VAL	P	18	11.042	-22.323	-3.451	0.00	0.00	PROA
287	ATOM	287	N	VAL	P	19	12.725	-20.886	-2.781	0.00	0.00	PROA
288	ATOM	288	HN	VAL	P	19	13.195	-20.278	-2.146	0.00	0.00	PROA
289	ATOM	289	CA	VAL	P	19	13.299	-20.716	-4.116	0.00	0.00	PROA
290	ATOM	290	HA	VAL	P	19	12.501	-20.395	-4.769	0.00	0.00	PROA
291	ATOM	291	CB	VAL	P	19	14.198	-19.436	-4.074	0.00	0.00	PROA
292	ATOM	292	HB	VAL	P	19	14.947	-19.511	-3.257	0.00	0.00	PROA

293	ATOM	293	CG1	VAL	P	19	14.873	-19.390	-5.495	0.00	0.00	PROA
294	ATOM	294	HG11	VAL	P	19	15.659	-18.605	-5.470	0.00	0.00	PROA
295	ATOM	295	HG12	VAL	P	19	14.151	-19.205	-6.319	0.00	0.00	PROA
296	ATOM	296	HG13	VAL	P	19	15.422	-20.320	-5.754	0.00	0.00	PROA
297	ATOM	297	CG2	VAL	P	19	13.341	-18.152	-3.853	0.00	0.00	PROA
298	ATOM	298	HG21	VAL	P	19	14.023	-17.333	-3.538	0.00	0.00	PROA
299	ATOM	299	HG22	VAL	P	19	12.603	-18.315	-3.039	0.00	0.00	PROA
300	ATOM	300	HG23	VAL	P	19	12.818	-17.849	-4.786	0.00	0.00	PROA
301	ATOM	301	C	VAL	P	19	13.912	-21.969	-4.748	0.00	0.00	PROA
302	ATOM	302	O	VAL	P	19	13.622	-22.197	-5.956	0.00	0.00	PROA
303	ATOM	303	N	GLU	P	20	14.601	-22.858	-4.001	0.00	0.00	PROA
304	ATOM	304	HN	GLU	P	20	14.873	-22.561	-3.090	0.00	0.00	PROA
305	ATOM	305	CA	GLU	P	20	14.998	-24.164	-4.600	0.00	0.00	PROA
306	ATOM	306	HA	GLU	P	20	15.268	-23.975	-5.629	0.00	0.00	PROA
307	ATOM	307	CB	GLU	P	20	16.124	-24.807	-3.740	0.00	0.00	PROA
308	ATOM	308	HB1	GLU	P	20	15.742	-25.025	-2.720	0.00	0.00	PROA
309	ATOM	309	HB2	GLU	P	20	16.904	-24.017	-3.693	0.00	0.00	PROA
310	ATOM	310	CG	GLU	P	20	16.705	-26.006	-4.500	0.00	0.00	PROA
311	ATOM	311	HG1	GLU	P	20	16.684	-25.781	-5.588	0.00	0.00	PROA
312	ATOM	312	HG2	GLU	P	20	16.071	-26.903	-4.331	0.00	0.00	PROA
313	ATOM	313	CD	GLU	P	20	18.075	-26.488	-4.014	0.00	0.00	PROA
314	ATOM	314	OE1	GLU	P	20	19.085	-25.895	-4.395	0.00	0.00	PROA
315	ATOM	315	OE2	GLU	P	20	18.142	-27.411	-3.198	0.00	0.00	PROA
316	ATOM	316	C	GLU	P	20	13.765	-25.113	-4.732	0.00	0.00	PROA
317	ATOM	317	O	GLU	P	20	13.649	-25.866	-5.697	0.00	0.00	PROA
318	ATOM	318	N	LYS	P	21	12.717	-25.060	-3.919	0.00	0.00	PROA
319	ATOM	319	HN	LYS	P	21	12.753	-24.363	-3.207	0.00	0.00	PROA
320	ATOM	320	CA	LYS	P	21	11.621	-25.854	-4.084	0.00	0.00	PROA
321	ATOM	321	HA	LYS	P	21	11.963	-26.867	-4.234	0.00	0.00	PROA
322	ATOM	322	CB	LYS	P	21	10.687	-25.714	-2.896	0.00	0.00	PROA
323	ATOM	323	HB1	LYS	P	21	10.383	-24.650	-2.802	0.00	0.00	PROA
324	ATOM	324	HB2	LYS	P	21	11.171	-25.899	-1.912	0.00	0.00	PROA
325	ATOM	325	CG	LYS	P	21	9.415	-26.629	-2.910	0.00	0.00	PROA
326	ATOM	326	HG1	LYS	P	21	8.933	-26.670	-3.910	0.00	0.00	PROA
327	ATOM	327	HG2	LYS	P	21	8.709	-26.235	-2.149	0.00	0.00	PROA
328	ATOM	328	CD	LYS	P	21	9.656	-28.036	-2.340	0.00	0.00	PROA
329	ATOM	329	HD1	LYS	P	21	10.016	-27.995	-1.289	0.00	0.00	PROA
330	ATOM	330	HD2	LYS	P	21	10.462	-28.393	-3.016	0.00	0.00	PROA
331	ATOM	331	CE	LYS	P	21	8.393	-28.987	-2.389	0.00	0.00	PROA
332	ATOM	332	HE1	LYS	P	21	7.850	-28.775	-3.335	0.00	0.00	PROA
333	ATOM	333	HE2	LYS	P	21	7.817	-28.863	-1.447	0.00	0.00	PROA
334	ATOM	334	NZ	LYS	P	21	8.879	-30.324	-2.549	0.00	0.00	PROA
335	ATOM	335	HZ1	LYS	P	21	9.685	-30.340	-3.205	0.00	0.00	PROA
336	ATOM	336	HZ2	LYS	P	21	8.134	-30.978	-2.864	0.00	0.00	PROA
337	ATOM	337	HZ3	LYS	P	21	9.190	-30.716	-1.637	0.00	0.00	PROA
338	ATOM	338	C	LYS	P	21	10.877	-25.604	-5.408	0.00	0.00	PROA
339	ATOM	339	O	LYS	P	21	10.454	-26.564	-6.050	0.00	0.00	PROA
340	ATOM	340	N	ILE	P	22	10.880	-24.318	-5.962	0.00	0.00	PROA
341	ATOM	341	HN	ILE	P	22	11.300	-23.509	-5.558	0.00	0.00	PROA
342	ATOM	342	CA	ILE	P	22	9.936	-23.979	-7.054	0.00	0.00	PROA
343	ATOM	343	HA	ILE	P	22	9.091	-24.640	-7.175	0.00	0.00	PROA
344	ATOM	344	CB	ILE	P	22	9.175	-22.623	-6.685	0.00	0.00	PROA
345	ATOM	345	HB	ILE	P	22	9.068	-22.628	-5.579	0.00	0.00	PROA
346	ATOM	346	CG2	ILE	P	22	10.062	-21.446	-6.991	0.00	0.00	PROA
347	ATOM	347	HG21	ILE	P	22	10.218	-21.238	-8.071	0.00	0.00	PROA
348	ATOM	348	HG22	ILE	P	22	11.022	-21.537	-6.440	0.00	0.00	PROA
349	ATOM	349	HG23	ILE	P	22	9.573	-20.509	-6.647	0.00	0.00	PROA
350	ATOM	350	CG1	ILE	P	22	7.757	-22.448	-7.313	0.00	0.00	PROA
351	ATOM	351	HG11	ILE	P	22	7.696	-22.713	-8.390	0.00	0.00	PROA
352	ATOM	352	HG12	ILE	P	22	7.481	-21.379	-7.190	0.00	0.00	PROA
353	ATOM	353	CD	ILE	P	22	6.667	-23.269	-6.498	0.00	0.00	PROA
354	ATOM	354	HD1	ILE	P	22	5.797	-23.386	-7.178	0.00	0.00	PROA
355	ATOM	355	HD2	ILE	P	22	6.384	-22.788	-5.537	0.00	0.00	PROA
356	ATOM	356	HD3	ILE	P	22	7.091	-24.282	-6.329	0.00	0.00	PROA
357	ATOM	357	C	ILE	P	22	10.752	-23.874	-8.300	0.00	0.00	PROA
358	ATOM	358	O	ILE	P	22	10.198	-23.750	-9.438	0.00	0.00	PROA
359	ATOM	359	N	ALA	P	23	12.084	-23.920	-8.252	0.00	0.00	PROA
360	ATOM	360	HN	ALA	P	23	12.621	-23.936	-7.412	0.00	0.00	PROA
361	ATOM	361	CA	ALA	P	23	12.905	-23.938	-9.466	0.00	0.00	PROA
362	ATOM	362	HA	ALA	P	23	12.535	-23.227	-10.190	0.00	0.00	PROA
363	ATOM	363	CB	ALA	P	23	14.188	-23.390	-8.925	0.00	0.00	PROA
364	ATOM	364	HB1	ALA	P	23	13.996	-22.452	-8.361	0.00	0.00	PROA
365	ATOM	365	HB2	ALA	P	23	14.940	-23.225	-9.726	0.00	0.00	PROA

366	ATOM	366	HB3	ALA	P	23	14.658	-24.024	-8.142	0.00	0.00	PROA
367	ATOM	367	C	ALA	P	23	12.948	-25.367	-10.064	0.00	0.00	PROA
368	ATOM	368	O	ALA	P	23	12.903	-26.357	-9.247	0.00	0.00	PROA
369	ATOM	369	N	PRO	P	24	13.131	-25.544	-11.370	0.00	0.00	PROA
370	ATOM	370	CD	PRO	P	24	13.436	-26.838	-12.002	0.00	0.00	PROA
371	ATOM	371	HD1	PRO	P	24	12.406	-27.219	-12.167	0.00	0.00	PROA
372	ATOM	372	HD2	PRO	P	24	14.098	-27.422	-11.326	0.00	0.00	PROA
373	ATOM	373	CA	PRO	P	24	13.059	-24.553	-12.408	0.00	0.00	PROA
374	ATOM	374	HA	PRO	P	24	13.300	-23.550	-12.088	0.00	0.00	PROA
375	ATOM	375	CB	PRO	P	24	14.099	-25.010	-13.415	0.00	0.00	PROA
376	ATOM	376	HB1	PRO	P	24	15.077	-24.711	-12.982	0.00	0.00	PROA
377	ATOM	377	HB2	PRO	P	24	13.929	-24.717	-14.473	0.00	0.00	PROA
378	ATOM	378	CG	PRO	P	24	14.163	-26.589	-13.294	0.00	0.00	PROA
379	ATOM	379	HG1	PRO	P	24	13.591	-26.967	-14.169	0.00	0.00	PROA
380	ATOM	380	HG2	PRO	P	24	15.219	-26.935	-13.282	0.00	0.00	PROA
381	ATOM	381	C	PRO	P	24	11.694	-24.545	-13.058	0.00	0.00	PROA
382	ATOM	382	O	PRO	P	24	11.542	-24.322	-14.268	0.00	0.00	PROA
383	ATOM	383	N	ALA	P	25	10.588	-24.736	-12.340	0.00	0.00	PROA
384	ATOM	384	HN	ALA	P	25	10.540	-24.692	-11.345	0.00	0.00	PROA
385	ATOM	385	CA	ALA	P	25	9.235	-24.723	-12.893	0.00	0.00	PROA
386	ATOM	386	HA	ALA	P	25	9.180	-25.126	-13.894	0.00	0.00	PROA
387	ATOM	387	CB	ALA	P	25	8.438	-25.623	-12.041	0.00	0.00	PROA
388	ATOM	388	HB1	ALA	P	25	7.412	-25.737	-12.453	0.00	0.00	PROA
389	ATOM	389	HB2	ALA	P	25	8.480	-25.487	-10.939	0.00	0.00	PROA
390	ATOM	390	HB3	ALA	P	25	8.855	-26.648	-12.139	0.00	0.00	PROA
391	ATOM	391	C	ALA	P	25	8.538	-23.392	-13.108	0.00	0.00	PROA
392	ATOM	392	O	ALA	P	25	7.349	-23.291	-13.471	0.00	0.00	PROA
393	ATOM	393	N	VAL	P	26	9.298	-22.256	-12.902	0.00	0.00	PROA
394	ATOM	394	HN	VAL	P	26	10.285	-22.380	-12.831	0.00	0.00	PROA
395	ATOM	395	CA	VAL	P	26	8.749	-20.889	-12.953	0.00	0.00	PROA
396	ATOM	396	HA	VAL	P	26	7.689	-20.816	-13.147	0.00	0.00	PROA
397	ATOM	397	CB	VAL	P	26	8.933	-20.188	-11.688	0.00	0.00	PROA
398	ATOM	398	HB	VAL	P	26	10.036	-20.252	-11.567	0.00	0.00	PROA
399	ATOM	399	CG1	VAL	P	26	8.407	-18.734	-11.715	0.00	0.00	PROA
400	ATOM	400	HG11	VAL	P	26	9.187	-18.207	-12.304	0.00	0.00	PROA
401	ATOM	401	HG12	VAL	P	26	8.361	-18.424	-10.649	0.00	0.00	PROA
402	ATOM	402	HG13	VAL	P	26	7.421	-18.622	-12.213	0.00	0.00	PROA
403	ATOM	403	CG2	VAL	P	26	8.223	-21.009	-10.607	0.00	0.00	PROA
404	ATOM	404	HG21	VAL	P	26	8.635	-22.034	-10.495	0.00	0.00	PROA
405	ATOM	405	HG22	VAL	P	26	7.133	-21.139	-10.779	0.00	0.00	PROA
406	ATOM	406	HG23	VAL	P	26	8.170	-20.473	-9.636	0.00	0.00	PROA
407	ATOM	407	C	VAL	P	26	9.412	-20.106	-14.125	0.00	0.00	PROA
408	ATOM	408	O	VAL	P	26	10.617	-19.703	-13.985	0.00	0.00	PROA
409	ATOM	409	N	VAL	P	27	8.697	-20.012	-15.264	0.00	0.00	PROA
410	ATOM	410	HN	VAL	P	27	7.704	-19.919	-15.246	0.00	0.00	PROA
411	ATOM	411	CA	VAL	P	27	9.269	-19.856	-16.573	0.00	0.00	PROA
412	ATOM	412	HA	VAL	P	27	10.343	-19.895	-16.469	0.00	0.00	PROA
413	ATOM	413	CB	VAL	P	27	8.921	-21.055	-17.491	0.00	0.00	PROA
414	ATOM	414	HB	VAL	P	27	9.374	-20.919	-18.496	0.00	0.00	PROA
415	ATOM	415	CG1	VAL	P	27	9.335	-22.304	-16.799	0.00	0.00	PROA
416	ATOM	416	HG11	VAL	P	27	9.286	-23.227	-17.415	0.00	0.00	PROA
417	ATOM	417	HG12	VAL	P	27	9.034	-22.521	-15.751	0.00	0.00	PROA
418	ATOM	418	HG13	VAL	P	27	10.426	-22.286	-16.590	0.00	0.00	PROA
419	ATOM	419	CG2	VAL	P	27	7.406	-21.190	-17.801	0.00	0.00	PROA
420	ATOM	420	HG21	VAL	P	27	6.846	-21.267	-16.844	0.00	0.00	PROA
421	ATOM	421	HG22	VAL	P	27	7.227	-22.080	-18.441	0.00	0.00	PROA
422	ATOM	422	HG23	VAL	P	27	7.092	-20.209	-18.219	0.00	0.00	PROA
423	ATOM	423	C	VAL	P	27	8.834	-18.590	-17.267	0.00	0.00	PROA
424	ATOM	424	O	VAL	P	27	7.870	-17.868	-16.906	0.00	0.00	PROA
425	ATOM	425	N	HSD	P	28	9.586	-18.142	-18.267	0.00	0.00	PROA
426	ATOM	426	HN	HSD	P	28	10.288	-18.666	-18.742	0.00	0.00	PROA
427	ATOM	427	CA	HSD	P	28	9.308	-16.827	-18.905	0.00	0.00	PROA
428	ATOM	428	HA	HSD	P	28	8.546	-16.355	-18.304	0.00	0.00	PROA
429	ATOM	429	CB	HSD	P	28	10.567	-15.926	-18.995	0.00	0.00	PROA
430	ATOM	430	HB1	HSD	P	28	11.279	-16.448	-19.669	0.00	0.00	PROA
431	ATOM	431	HB2	HSD	P	28	11.068	-15.924	-18.003	0.00	0.00	PROA
432	ATOM	432	ND1	HSD	P	28	10.593	-13.908	-20.499	0.00	0.00	PROA
433	ATOM	433	HD1	HSD	P	28	10.721	-14.447	-21.332	0.00	0.00	PROA
434	ATOM	434	CG	HSD	P	28	10.347	-14.479	-19.301	0.00	0.00	PROA
435	ATOM	435	CE1	HSD	P	28	10.450	-12.568	-20.319	0.00	0.00	PROA
436	ATOM	436	HE1	HSD	P	28	10.366	-11.897	-21.174	0.00	0.00	PROA
437	ATOM	437	NE2	HSD	P	28	10.245	-12.232	-19.022	0.00	0.00	PROA
438	ATOM	438	CD2	HSD	P	28	10.082	-13.470	-18.426	0.00	0.00	PROA

439	ATOM	439	HD2	HSD	P	28	10.178	-13.486	-17.347	0.00	0.00	PROA
440	ATOM	440	C	HSD	P	28	8.739	-17.039	-20.249	0.00	0.00	PROA
441	ATOM	441	O	HSD	P	28	8.700	-18.128	-20.828	0.00	0.00	PROA
442	ATOM	442	N	ILE	P	29	8.031	-16.000	-20.751	0.00	0.00	PROA
443	ATOM	443	HN	ILE	P	29	8.122	-15.128	-20.277	0.00	0.00	PROA
444	ATOM	444	CA	ILE	P	29	7.182	-16.093	-21.953	0.00	0.00	PROA
445	ATOM	445	HA	ILE	P	29	7.430	-17.000	-22.483	0.00	0.00	PROA
446	ATOM	446	CB	ILE	P	29	5.668	-16.118	-21.590	0.00	0.00	PROA
447	ATOM	447	HB	ILE	P	29	5.469	-15.338	-20.825	0.00	0.00	PROA
448	ATOM	448	CG2	ILE	P	29	4.842	-16.196	-22.898	0.00	0.00	PROA
449	ATOM	449	HG21	ILE	P	29	5.076	-15.307	-23.521	0.00	0.00	PROA
450	ATOM	450	HG22	ILE	P	29	3.778	-16.153	-22.581	0.00	0.00	PROA
451	ATOM	451	HG23	ILE	P	29	5.101	-17.160	-23.386	0.00	0.00	PROA
452	ATOM	452	CG1	ILE	P	29	5.394	-17.421	-20.821	0.00	0.00	PROA
453	ATOM	453	HG11	ILE	P	29	6.046	-17.399	-19.922	0.00	0.00	PROA
454	ATOM	454	HG12	ILE	P	29	5.819	-18.230	-21.452	0.00	0.00	PROA
455	ATOM	455	CD	ILE	P	29	3.877	-17.666	-20.505	0.00	0.00	PROA
456	ATOM	456	HD1	ILE	P	29	3.508	-18.189	-21.413	0.00	0.00	PROA
457	ATOM	457	HD2	ILE	P	29	3.231	-16.781	-20.323	0.00	0.00	PROA
458	ATOM	458	HD3	ILE	P	29	3.778	-18.344	-19.630	0.00	0.00	PROA
459	ATOM	459	C	ILE	P	29	7.564	-14.892	-22.866	0.00	0.00	PROA
460	ATOM	460	O	ILE	P	29	7.686	-13.757	-22.408	0.00	0.00	PROA
461	ATOM	461	N	GLU	P	30	7.528	-15.104	-24.177	0.00	0.00	PROA
462	ATOM	462	HN	GLU	P	30	7.276	-15.996	-24.546	0.00	0.00	PROA
463	ATOM	463	CA	GLU	P	30	7.900	-13.969	-25.014	0.00	0.00	PROA
464	ATOM	464	HA	GLU	P	30	7.701	-13.054	-24.475	0.00	0.00	PROA
465	ATOM	465	CB	GLU	P	30	9.397	-14.004	-25.486	0.00	0.00	PROA
466	ATOM	466	HB1	GLU	P	30	9.562	-15.022	-25.900	0.00	0.00	PROA
467	ATOM	467	HB2	GLU	P	30	9.946	-13.926	-24.523	0.00	0.00	PROA
468	ATOM	468	CG	GLU	P	30	9.713	-12.907	-26.433	0.00	0.00	PROA
469	ATOM	469	HG1	GLU	P	30	9.185	-11.944	-26.261	0.00	0.00	PROA
470	ATOM	470	HG2	GLU	P	30	9.352	-13.256	-27.424	0.00	0.00	PROA
471	ATOM	471	CD	GLU	P	30	11.175	-12.534	-26.511	0.00	0.00	PROA
472	ATOM	472	OE1	GLU	P	30	11.403	-11.422	-25.964	0.00	0.00	PROA
473	ATOM	473	OE2	GLU	P	30	12.010	-13.187	-27.127	0.00	0.00	PROA
474	ATOM	474	C	GLU	P	30	7.011	-13.995	-26.246	0.00	0.00	PROA
475	ATOM	475	O	GLU	P	30	6.874	-15.000	-26.978	0.00	0.00	PROA
476	ATOM	476	N	LEU	P	31	6.400	-12.809	-26.480	0.00	0.00	PROA
477	ATOM	477	HN	LEU	P	31	6.604	-11.958	-26.003	0.00	0.00	PROA
478	ATOM	478	CA	LEU	P	31	5.499	-12.661	-27.592	0.00	0.00	PROA
479	ATOM	479	HA	LEU	P	31	5.133	-13.600	-27.978	0.00	0.00	PROA
480	ATOM	480	CB	LEU	P	31	4.158	-12.092	-27.081	0.00	0.00	PROA
481	ATOM	481	HB1	LEU	P	31	3.632	-11.885	-28.038	0.00	0.00	PROA
482	ATOM	482	HB2	LEU	P	31	4.378	-11.109	-26.613	0.00	0.00	PROA
483	ATOM	483	CG	LEU	P	31	3.329	-13.053	-26.204	0.00	0.00	PROA
484	ATOM	484	HG	LEU	P	31	3.555	-14.020	-26.704	0.00	0.00	PROA
485	ATOM	485	CD1	LEU	P	31	3.876	-12.999	-24.725	0.00	0.00	PROA
486	ATOM	486	HD11	LEU	P	31	3.808	-11.975	-24.301	0.00	0.00	PROA
487	ATOM	487	HD12	LEU	P	31	4.925	-13.359	-24.657	0.00	0.00	PROA
488	ATOM	488	HD13	LEU	P	31	3.321	-13.754	-24.127	0.00	0.00	PROA
489	ATOM	489	CD2	LEU	P	31	1.825	-12.784	-26.327	0.00	0.00	PROA
490	ATOM	490	HD21	LEU	P	31	1.220	-13.570	-25.826	0.00	0.00	PROA
491	ATOM	491	HD22	LEU	P	31	1.451	-12.653	-27.364	0.00	0.00	PROA
492	ATOM	492	HD23	LEU	P	31	1.561	-11.833	-25.818	0.00	0.00	PROA
493	ATOM	493	C	LEU	P	31	6.177	-11.795	-28.671	0.00	0.00	PROA
494	ATOM	494	O	LEU	P	31	6.705	-10.690	-28.442	0.00	0.00	PROA
495	ATOM	495	N	PHE	P	32	5.989	-12.209	-29.902	0.00	0.00	PROA
496	ATOM	496	HN	PHE	P	32	5.369	-12.963	-30.104	0.00	0.00	PROA
497	ATOM	497	CA	PHE	P	32	7.034	-11.848	-30.937	0.00	0.00	PROA
498	ATOM	498	HA	PHE	P	32	7.369	-10.825	-30.850	0.00	0.00	PROA
499	ATOM	499	CB	PHE	P	32	8.325	-12.710	-30.909	0.00	0.00	PROA
500	ATOM	500	HB1	PHE	P	32	8.704	-12.762	-29.866	0.00	0.00	PROA
501	ATOM	501	HB2	PHE	P	32	9.189	-12.283	-31.461	0.00	0.00	PROA
502	ATOM	502	CG	PHE	P	32	8.129	-14.086	-31.381	0.00	0.00	PROA
503	ATOM	503	CD1	PHE	P	32	8.653	-14.518	-32.644	0.00	0.00	PROA
504	ATOM	504	HD1	PHE	P	32	8.946	-13.811	-33.406	0.00	0.00	PROA
505	ATOM	505	CE1	PHE	P	32	8.665	-15.851	-33.009	0.00	0.00	PROA
506	ATOM	506	HE1	PHE	P	32	8.933	-16.131	-34.017	0.00	0.00	PROA
507	ATOM	507	CZ	PHE	P	32	8.119	-16.824	-32.158	0.00	0.00	PROA
508	ATOM	508	HZ	PHE	P	32	8.094	-17.869	-32.429	0.00	0.00	PROA
509	ATOM	509	CD2	PHE	P	32	7.617	-15.113	-30.527	0.00	0.00	PROA
510	ATOM	510	HD2	PHE	P	32	7.257	-14.781	-29.565	0.00	0.00	PROA
511	ATOM	511	CE2	PHE	P	32	7.612	-16.445	-30.915	0.00	0.00	PROA

512	ATOM	512	HE2	PHE	P	32	6.988	-17.064	-30.288	0.00	0.00	PROA
513	ATOM	513	C	PHE	P	32	6.316	-11.773	-32.269	0.00	0.00	PROA
514	ATOM	514	O	PHE	P	32	5.319	-12.560	-32.484	0.00	0.00	PROA
515	ATOM	515	N	ARG	P	33	6.677	-10.885	-33.107	0.00	0.00	PROA
516	ATOM	516	HN	ARG	P	33	7.492	-10.368	-32.855	0.00	0.00	PROA
517	ATOM	517	CA	ARG	P	33	6.345	-10.753	-34.497	0.00	0.00	PROA
518	ATOM	518	HA	ARG	P	33	5.590	-11.487	-34.739	0.00	0.00	PROA
519	ATOM	519	CB	ARG	P	33	5.771	-9.321	-34.755	0.00	0.00	PROA
520	ATOM	520	HB1	ARG	P	33	5.182	-9.048	-33.854	0.00	0.00	PROA
521	ATOM	521	HB2	ARG	P	33	5.122	-9.376	-35.655	0.00	0.00	PROA
522	ATOM	522	CG	ARG	P	33	6.759	-8.140	-35.095	0.00	0.00	PROA
523	ATOM	523	HG1	ARG	P	33	7.300	-8.356	-36.041	0.00	0.00	PROA
524	ATOM	524	HG2	ARG	P	33	7.336	-7.971	-34.161	0.00	0.00	PROA
525	ATOM	525	CD	ARG	P	33	6.036	-6.873	-35.263	0.00	0.00	PROA
526	ATOM	526	HD1	ARG	P	33	5.713	-6.483	-34.274	0.00	0.00	PROA
527	ATOM	527	HD2	ARG	P	33	5.233	-6.904	-36.031	0.00	0.00	PROA
528	ATOM	528	NE	ARG	P	33	7.112	-5.904	-35.767	0.00	0.00	PROA
529	ATOM	529	HE	ARG	P	33	7.559	-5.354	-35.061	0.00	0.00	PROA
530	ATOM	530	CZ	ARG	P	33	7.146	-5.320	-36.949	0.00	0.00	PROA
531	ATOM	531	NH1	ARG	P	33	6.652	-5.852	-38.068	0.00	0.00	PROA
532	ATOM	532	HH11	ARG	P	33	6.221	-6.753	-38.022	0.00	0.00	PROA
533	ATOM	533	HH12	ARG	P	33	6.616	-5.288	-38.893	0.00	0.00	PROA
534	ATOM	534	NH2	ARG	P	33	7.868	-4.203	-37.089	0.00	0.00	PROA
535	ATOM	535	HH21	ARG	P	33	8.600	-3.996	-36.441	0.00	0.00	PROA
536	ATOM	536	HH22	ARG	P	33	7.945	-3.787	-37.995	0.00	0.00	PROA
537	ATOM	537	C	ARG	P	33	7.518	-11.094	-35.352	0.00	0.00	PROA
538	ATOM	538	O	ARG	P	33	8.660	-10.983	-34.880	0.00	0.00	PROA
539	ATOM	539	N	LYS	P	34	7.397	-11.580	-36.566	0.00	0.00	PROA
540	ATOM	540	HN	LYS	P	34	6.459	-11.693	-36.886	0.00	0.00	PROA
541	ATOM	541	CA	LYS	P	34	8.456	-11.701	-37.452	0.00	0.00	PROA
542	ATOM	542	HA	LYS	P	34	9.397	-11.790	-36.929	0.00	0.00	PROA
543	ATOM	543	CB	LYS	P	34	8.313	-12.976	-38.338	0.00	0.00	PROA
544	ATOM	544	HB1	LYS	P	34	9.010	-12.940	-39.202	0.00	0.00	PROA
545	ATOM	545	HB2	LYS	P	34	7.290	-13.028	-38.768	0.00	0.00	PROA
546	ATOM	546	CG	LYS	P	34	8.420	-14.303	-37.577	0.00	0.00	PROA
547	ATOM	547	HG1	LYS	P	34	7.770	-15.068	-38.052	0.00	0.00	PROA
548	ATOM	548	HG2	LYS	P	34	7.982	-14.175	-36.564	0.00	0.00	PROA
549	ATOM	549	CD	LYS	P	34	9.851	-14.872	-37.457	0.00	0.00	PROA
550	ATOM	550	HD1	LYS	P	34	9.914	-15.897	-37.032	0.00	0.00	PROA
551	ATOM	551	HD2	LYS	P	34	10.504	-14.159	-36.910	0.00	0.00	PROA
552	ATOM	552	CE	LYS	P	34	10.589	-15.118	-38.898	0.00	0.00	PROA
553	ATOM	553	HE1	LYS	P	34	11.549	-15.604	-38.622	0.00	0.00	PROA
554	ATOM	554	HE2	LYS	P	34	10.758	-14.154	-39.425	0.00	0.00	PROA
555	ATOM	555	NZ	LYS	P	34	9.882	-16.117	-39.717	0.00	0.00	PROA
556	ATOM	556	HZ1	LYS	P	34	9.776	-17.073	-39.321	0.00	0.00	PROA
557	ATOM	557	HZ2	LYS	P	34	10.276	-16.147	-40.679	0.00	0.00	PROA
558	ATOM	558	HZ3	LYS	P	34	8.892	-15.826	-39.850	0.00	0.00	PROA
559	ATOM	559	C	LYS	P	34	8.521	-10.435	-38.216	0.00	0.00	PROA
560	ATOM	560	O	LYS	P	34	7.520	-9.881	-38.729	0.00	0.00	PROA
561	ATOM	561	N	LEU	P	35	9.722	-9.888	-38.369	0.00	0.00	PROA
562	ATOM	562	HN	LEU	P	35	10.524	-10.255	-37.904	0.00	0.00	PROA
563	ATOM	563	CA	LEU	P	35	9.933	-8.758	-39.228	0.00	0.00	PROA
564	ATOM	564	HA	LEU	P	35	9.327	-7.945	-38.858	0.00	0.00	PROA
565	ATOM	565	CB	LEU	P	35	11.430	-8.346	-39.183	0.00	0.00	PROA
566	ATOM	566	HB1	LEU	P	35	12.018	-9.278	-39.322	0.00	0.00	PROA
567	ATOM	567	HB2	LEU	P	35	11.772	-7.873	-38.237	0.00	0.00	PROA
568	ATOM	568	CG	LEU	P	35	11.802	-7.224	-40.139	0.00	0.00	PROA
569	ATOM	569	HG	LEU	P	35	11.425	-7.468	-41.155	0.00	0.00	PROA
570	ATOM	570	CD1	LEU	P	35	11.263	-5.793	-39.721	0.00	0.00	PROA
571	ATOM	571	HD11	LEU	P	35	10.154	-5.832	-39.680	0.00	0.00	PROA
572	ATOM	572	HD12	LEU	P	35	11.517	-4.967	-40.419	0.00	0.00	PROA
573	ATOM	573	HD13	LEU	P	35	11.638	-5.638	-38.687	0.00	0.00	PROA
574	ATOM	574	CD2	LEU	P	35	13.320	-7.002	-40.264	0.00	0.00	PROA
575	ATOM	575	HD21	LEU	P	35	13.871	-7.902	-40.611	0.00	0.00	PROA
576	ATOM	576	HD22	LEU	P	35	13.673	-6.757	-39.239	0.00	0.00	PROA
577	ATOM	577	HD23	LEU	P	35	13.468	-6.177	-40.993	0.00	0.00	PROA
578	ATOM	578	C	LEU	P	35	9.575	-9.078	-40.722	0.00	0.00	PROA
579	ATOM	579	O	LEU	P	35	10.007	-10.184	-41.139	0.00	0.00	PROA
580	ATOM	580	N	PRO	P	36	8.806	-8.425	-41.575	0.00	0.00	PROA
581	ATOM	581	CD	PRO	P	36	7.801	-7.443	-41.062	0.00	0.00	PROA
582	ATOM	582	HD1	PRO	P	36	8.262	-6.438	-40.959	0.00	0.00	PROA
583	ATOM	583	HD2	PRO	P	36	7.329	-7.694	-40.088	0.00	0.00	PROA
584	ATOM	584	CA	PRO	P	36	8.622	-8.728	-42.956	0.00	0.00	PROA

585	ATOM	585	HA	PRO	P	36	8.165	-9.668	-43.227	0.00	0.00	PROA
586	ATOM	586	CB	PRO	P	36	7.698	-7.576	-43.375	0.00	0.00	PROA
587	ATOM	587	HB1	PRO	P	36	7.321	-7.823	-44.390	0.00	0.00	PROA
588	ATOM	588	HB2	PRO	P	36	8.233	-6.630	-43.605	0.00	0.00	PROA
589	ATOM	589	CG	PRO	P	36	6.810	-7.340	-42.167	0.00	0.00	PROA
590	ATOM	590	HG1	PRO	P	36	6.332	-6.338	-42.141	0.00	0.00	PROA
591	ATOM	591	HG2	PRO	P	36	6.099	-8.193	-42.200	0.00	0.00	PROA
592	ATOM	592	C	PRO	P	36	9.893	-8.847	-43.792	0.00	0.00	PROA
593	ATOM	593	O	PRO	P	36	10.800	-8.020	-43.626	0.00	0.00	PROA
594	ATOM	594	N	PHE	P	37	10.009	-9.877	-44.629	0.00	0.00	PROA
595	ATOM	595	HN	PHE	P	37	9.236	-10.481	-44.810	0.00	0.00	PROA
596	ATOM	596	CA	PHE	P	37	11.054	-10.035	-45.641	0.00	0.00	PROA
597	ATOM	597	HA	PHE	P	37	10.732	-10.829	-46.298	0.00	0.00	PROA
598	ATOM	598	CB	PHE	P	37	11.427	-8.699	-46.400	0.00	0.00	PROA
599	ATOM	599	HB1	PHE	P	37	11.978	-8.082	-45.659	0.00	0.00	PROA
600	ATOM	600	HB2	PHE	P	37	10.549	-8.068	-46.656	0.00	0.00	PROA
601	ATOM	601	CG	PHE	P	37	12.140	-8.791	-47.717	0.00	0.00	PROA
602	ATOM	602	CD1	PHE	P	37	11.720	-9.706	-48.639	0.00	0.00	PROA
603	ATOM	603	HD1	PHE	P	37	11.102	-10.584	-48.529	0.00	0.00	PROA
604	ATOM	604	CE1	PHE	P	37	12.318	-9.645	-49.965	0.00	0.00	PROA
605	ATOM	605	HE1	PHE	P	37	12.033	-10.444	-50.634	0.00	0.00	PROA
606	ATOM	606	CZ	PHE	P	37	13.248	-8.659	-50.335	0.00	0.00	PROA
607	ATOM	607	HZ	PHE	P	37	13.638	-8.704	-51.341	0.00	0.00	PROA
608	ATOM	608	CD2	PHE	P	37	13.095	-7.823	-48.044	0.00	0.00	PROA
609	ATOM	609	HD2	PHE	P	37	13.302	-7.132	-47.240	0.00	0.00	PROA
610	ATOM	610	CE2	PHE	P	37	13.566	-7.727	-49.366	0.00	0.00	PROA
611	ATOM	611	HE2	PHE	P	37	14.229	-6.888	-49.517	0.00	0.00	PROA
612	ATOM	612	C	PHE	P	37	12.267	-10.581	-45.116	0.00	0.00	PROA
613	ATOM	613	O	PHE	P	37	13.278	-10.772	-45.795	0.00	0.00	PROA
614	ATOM	614	N	SER	P	38	12.338	-10.826	-43.783	0.00	0.00	PROA
615	ATOM	615	HN	SER	P	38	11.489	-10.680	-43.280	0.00	0.00	PROA
616	ATOM	616	CA	SER	P	38	13.505	-11.320	-43.083	0.00	0.00	PROA
617	ATOM	617	HA	SER	P	38	14.360	-11.471	-43.725	0.00	0.00	PROA
618	ATOM	618	CB	SER	P	38	13.888	-10.304	-42.013	0.00	0.00	PROA
619	ATOM	619	HB1	SER	P	38	13.126	-10.111	-41.229	0.00	0.00	PROA
620	ATOM	620	HB2	SER	P	38	14.014	-9.296	-42.462	0.00	0.00	PROA
621	ATOM	621	OG	SER	P	38	15.190	-10.559	-41.372	0.00	0.00	PROA
622	ATOM	622	HG1	SER	P	38	15.770	-10.122	-42.000	0.00	0.00	PROA
623	ATOM	623	C	SER	P	38	13.191	-12.625	-42.358	0.00	0.00	PROA
624	ATOM	624	O	SER	P	38	12.017	-12.990	-42.396	0.00	0.00	PROA
625	ATOM	625	N	LYS	P	39	14.217	-13.276	-41.772	0.00	0.00	PROA
626	ATOM	626	HN	LYS	P	39	15.177	-13.020	-41.853	0.00	0.00	PROA
627	ATOM	627	CA	LYS	P	39	13.932	-14.286	-40.798	0.00	0.00	PROA
628	ATOM	628	HA	LYS	P	39	12.977	-14.751	-40.995	0.00	0.00	PROA
629	ATOM	629	CB	LYS	P	39	15.012	-15.410	-40.975	0.00	0.00	PROA
630	ATOM	630	HB1	LYS	P	39	14.704	-16.292	-40.374	0.00	0.00	PROA
631	ATOM	631	HB2	LYS	P	39	15.949	-15.045	-40.503	0.00	0.00	PROA
632	ATOM	632	CG	LYS	P	39	15.260	-15.912	-42.421	0.00	0.00	PROA
633	ATOM	633	HG1	LYS	P	39	16.127	-16.606	-42.421	0.00	0.00	PROA
634	ATOM	634	HG2	LYS	P	39	15.518	-15.063	-43.090	0.00	0.00	PROA
635	ATOM	635	CD	LYS	P	39	13.954	-16.573	-42.981	0.00	0.00	PROA
636	ATOM	636	HD1	LYS	P	39	13.215	-15.745	-42.927	0.00	0.00	PROA
637	ATOM	637	HD2	LYS	P	39	13.516	-17.338	-42.305	0.00	0.00	PROA
638	ATOM	638	CE	LYS	P	39	14.084	-17.227	-44.320	0.00	0.00	PROA
639	ATOM	639	HE1	LYS	P	39	14.264	-16.451	-45.095	0.00	0.00	PROA
640	ATOM	640	HE2	LYS	P	39	13.186	-17.741	-44.723	0.00	0.00	PROA
641	ATOM	641	NZ	LYS	P	39	15.143	-18.235	-44.362	0.00	0.00	PROA
642	ATOM	642	HZ1	LYS	P	39	15.305	-18.703	-45.276	0.00	0.00	PROA
643	ATOM	643	HZ2	LYS	P	39	14.976	-18.953	-43.629	0.00	0.00	PROA
644	ATOM	644	HZ3	LYS	P	39	16.068	-17.799	-44.170	0.00	0.00	PROA
645	ATOM	645	C	LYS	P	39	14.015	-13.680	-39.381	0.00	0.00	PROA
646	ATOM	646	O	LYS	P	39	13.892	-14.446	-38.478	0.00	0.00	PROA
647	ATOM	647	N	ARG	P	40	14.365	-12.424	-39.110	0.00	0.00	PROA
648	ATOM	648	HN	ARG	P	40	14.801	-11.861	-39.809	0.00	0.00	PROA
649	ATOM	649	CA	ARG	P	40	14.369	-11.942	-37.746	0.00	0.00	PROA
650	ATOM	650	HA	ARG	P	40	14.968	-12.561	-37.095	0.00	0.00	PROA
651	ATOM	651	CB	ARG	P	40	14.877	-10.488	-37.596	0.00	0.00	PROA
652	ATOM	652	HB1	ARG	P	40	14.900	-10.060	-36.571	0.00	0.00	PROA
653	ATOM	653	HB2	ARG	P	40	14.197	-9.828	-38.176	0.00	0.00	PROA
654	ATOM	654	CG	ARG	P	40	16.267	-10.412	-38.124	0.00	0.00	PROA
655	ATOM	655	HG1	ARG	P	40	16.530	-9.352	-38.328	0.00	0.00	PROA
656	ATOM	656	HG2	ARG	P	40	16.390	-10.943	-39.091	0.00	0.00	PROA
657	ATOM	657	CD	ARG	P	40	17.366	-10.788	-37.065	0.00	0.00	PROA

658	ATOM	658	HD1	ARG	P	40	17.492	-11.874	-36.867	0.00	0.00	PROA
659	ATOM	659	HD2	ARG	P	40	17.158	-10.336	-36.071	0.00	0.00	PROA
660	ATOM	660	NE	ARG	P	40	18.756	-10.345	-37.535	0.00	0.00	PROA
661	ATOM	661	HE	ARG	P	40	18.914	-10.071	-38.484	0.00	0.00	PROA
662	ATOM	662	CZ	ARG	P	40	19.831	-10.198	-36.726	0.00	0.00	PROA
663	ATOM	663	NH1	ARG	P	40	19.895	-10.742	-35.550	0.00	0.00	PROA
664	ATOM	664	HH11	ARG	P	40	19.022	-11.094	-35.212	0.00	0.00	PROA
665	ATOM	665	HH12	ARG	P	40	20.607	-10.419	-34.927	0.00	0.00	PROA
666	ATOM	666	NH2	ARG	P	40	20.935	-9.775	-37.263	0.00	0.00	PROA
667	ATOM	667	HH21	ARG	P	40	20.858	-9.518	-38.226	0.00	0.00	PROA
668	ATOM	668	HH22	ARG	P	40	21.865	-10.081	-37.057	0.00	0.00	PROA
669	ATOM	669	C	ARG	P	40	13.065	-11.953	-36.990	0.00	0.00	PROA
670	ATOM	670	O	ARG	P	40	11.934	-11.736	-37.444	0.00	0.00	PROA
671	ATOM	671	N	GLU	P	41	13.157	-12.277	-35.649	0.00	0.00	PROA
672	ATOM	672	HN	GLU	P	41	14.013	-12.602	-35.256	0.00	0.00	PROA
673	ATOM	673	CA	GLU	P	41	12.014	-12.344	-34.710	0.00	0.00	PROA
674	ATOM	674	HA	GLU	P	41	11.119	-12.333	-35.315	0.00	0.00	PROA
675	ATOM	675	CB	GLU	P	41	12.151	-13.572	-33.782	0.00	0.00	PROA
676	ATOM	676	HB1	GLU	P	41	11.567	-13.574	-32.837	0.00	0.00	PROA
677	ATOM	677	HB2	GLU	P	41	13.210	-13.528	-33.449	0.00	0.00	PROA
678	ATOM	678	CG	GLU	P	41	11.847	-14.919	-34.539	0.00	0.00	PROA
679	ATOM	679	HG1	GLU	P	41	12.423	-15.024	-35.483	0.00	0.00	PROA
680	ATOM	680	HG2	GLU	P	41	10.760	-15.065	-34.713	0.00	0.00	PROA
681	ATOM	681	CD	GLU	P	41	12.308	-16.097	-33.667	0.00	0.00	PROA
682	ATOM	682	OE1	GLU	P	41	12.006	-17.245	-33.975	0.00	0.00	PROA
683	ATOM	683	OE2	GLU	P	41	13.011	-15.838	-32.640	0.00	0.00	PROA
684	ATOM	684	C	GLU	P	41	12.047	-11.172	-33.835	0.00	0.00	PROA
685	ATOM	685	O	GLU	P	41	13.063	-10.886	-33.157	0.00	0.00	PROA
686	ATOM	686	N	VAL	P	42	11.072	-10.316	-33.840	0.00	0.00	PROA
687	ATOM	687	HN	VAL	P	42	10.180	-10.506	-34.243	0.00	0.00	PROA
688	ATOM	688	CA	VAL	P	42	11.079	-9.052	-33.128	0.00	0.00	PROA
689	ATOM	689	HA	VAL	P	42	12.099	-8.888	-32.812	0.00	0.00	PROA
690	ATOM	690	CB	VAL	P	42	10.900	-7.945	-34.111	0.00	0.00	PROA
691	ATOM	691	HB	VAL	P	42	10.088	-8.195	-34.827	0.00	0.00	PROA
692	ATOM	692	CG1	VAL	P	42	10.597	-6.636	-33.394	0.00	0.00	PROA
693	ATOM	693	HG11	VAL	P	42	11.372	-6.243	-32.702	0.00	0.00	PROA
694	ATOM	694	HG12	VAL	P	42	9.572	-6.667	-32.966	0.00	0.00	PROA
695	ATOM	695	HG13	VAL	P	42	10.445	-5.881	-34.194	0.00	0.00	PROA
696	ATOM	696	CG2	VAL	P	42	12.246	-7.887	-35.014	0.00	0.00	PROA
697	ATOM	697	HG21	VAL	P	42	12.636	-8.857	-35.390	0.00	0.00	PROA
698	ATOM	698	HG22	VAL	P	42	13.060	-7.587	-34.320	0.00	0.00	PROA
699	ATOM	699	HG23	VAL	P	42	11.955	-7.212	-35.847	0.00	0.00	PROA
700	ATOM	700	C	VAL	P	42	10.027	-9.079	-32.017	0.00	0.00	PROA
701	ATOM	701	O	VAL	P	42	8.842	-9.289	-32.346	0.00	0.00	PROA
702	ATOM	702	N	PRO	P	43	10.377	-8.897	-30.661	0.00	0.00	PROA
703	ATOM	703	CD	PRO	P	43	11.769	-9.108	-30.217	0.00	0.00	PROA
704	ATOM	704	HD1	PRO	P	43	12.428	-8.246	-30.457	0.00	0.00	PROA
705	ATOM	705	HD2	PRO	P	43	12.291	-9.981	-30.664	0.00	0.00	PROA
706	ATOM	706	CA	PRO	P	43	9.460	-8.765	-29.548	0.00	0.00	PROA
707	ATOM	707	HA	PRO	P	43	8.846	-9.637	-29.382	0.00	0.00	PROA
708	ATOM	708	CB	PRO	P	43	10.362	-8.451	-28.316	0.00	0.00	PROA
709	ATOM	709	HB1	PRO	P	43	9.942	-8.937	-27.410	0.00	0.00	PROA
710	ATOM	710	HB2	PRO	P	43	10.588	-7.390	-28.074	0.00	0.00	PROA
711	ATOM	711	CG	PRO	P	43	11.612	-9.192	-28.655	0.00	0.00	PROA
712	ATOM	712	HG1	PRO	P	43	12.395	-8.688	-28.050	0.00	0.00	PROA
713	ATOM	713	HG2	PRO	P	43	11.495	-10.264	-28.388	0.00	0.00	PROA
714	ATOM	714	C	PRO	P	43	8.416	-7.651	-29.587	0.00	0.00	PROA
715	ATOM	715	O	PRO	P	43	8.682	-6.520	-30.032	0.00	0.00	PROA
716	ATOM	716	N	VAL	P	44	7.213	-7.981	-29.149	0.00	0.00	PROA
717	ATOM	717	HN	VAL	P	44	7.009	-8.898	-28.817	0.00	0.00	PROA
718	ATOM	718	CA	VAL	P	44	6.098	-7.048	-29.012	0.00	0.00	PROA
719	ATOM	719	HA	VAL	P	44	6.534	-6.063	-28.927	0.00	0.00	PROA
720	ATOM	720	CB	VAL	P	44	5.124	-7.122	-30.182	0.00	0.00	PROA
721	ATOM	721	HB	VAL	P	44	4.108	-6.776	-29.896	0.00	0.00	PROA
722	ATOM	722	CG1	VAL	P	44	5.641	-6.221	-31.386	0.00	0.00	PROA
723	ATOM	723	HG11	VAL	P	44	5.960	-5.211	-31.051	0.00	0.00	PROA
724	ATOM	724	HG12	VAL	P	44	4.796	-6.059	-32.089	0.00	0.00	PROA
725	ATOM	725	HG13	VAL	P	44	6.493	-6.577	-32.002	0.00	0.00	PROA
726	ATOM	726	CG2	VAL	P	44	4.718	-8.556	-30.595	0.00	0.00	PROA
727	ATOM	727	HG21	VAL	P	44	4.211	-9.099	-29.768	0.00	0.00	PROA
728	ATOM	728	HG22	VAL	P	44	5.644	-9.101	-30.880	0.00	0.00	PROA
729	ATOM	729	HG23	VAL	P	44	4.113	-8.647	-31.522	0.00	0.00	PROA
730	ATOM	730	C	VAL	P	44	5.429	-7.244	-27.621	0.00	0.00	PROA

731	ATOM	731	O	VAL	P	44	4.822	-6.359	-27.108	0.00	0.00	PROA
732	ATOM	732	N	ALA	P	45	5.735	-8.338	-26.919	0.00	0.00	PROA
733	ATOM	733	HN	ALA	P	45	6.274	-9.087	-27.295	0.00	0.00	PROA
734	ATOM	734	CA	ALA	P	45	5.377	-8.420	-25.513	0.00	0.00	PROA
735	ATOM	735	HA	ALA	P	45	5.589	-7.585	-24.861	0.00	0.00	PROA
736	ATOM	736	CB	ALA	P	45	3.898	-8.797	-25.351	0.00	0.00	PROA
737	ATOM	737	HB1	ALA	P	45	3.658	-8.474	-24.316	0.00	0.00	PROA
738	ATOM	738	HB2	ALA	P	45	3.612	-9.865	-25.235	0.00	0.00	PROA
739	ATOM	739	HB3	ALA	P	45	3.298	-8.232	-26.095	0.00	0.00	PROA
740	ATOM	740	C	ALA	P	45	6.188	-9.546	-24.855	0.00	0.00	PROA
741	ATOM	741	O	ALA	P	45	6.933	-10.338	-25.439	0.00	0.00	PROA
742	ATOM	742	N	SER	P	46	6.082	-9.601	-23.562	0.00	0.00	PROA
743	ATOM	743	HN	SER	P	46	5.691	-8.795	-23.123	0.00	0.00	PROA
744	ATOM	744	CA	SER	P	46	6.604	-10.733	-22.680	0.00	0.00	PROA
745	ATOM	745	HA	SER	P	46	6.318	-11.706	-23.052	0.00	0.00	PROA
746	ATOM	746	CB	SER	P	46	8.113	-10.734	-22.522	0.00	0.00	PROA
747	ATOM	747	HB1	SER	P	46	8.644	-10.937	-23.477	0.00	0.00	PROA
748	ATOM	748	HB2	SER	P	46	8.359	-11.530	-21.787	0.00	0.00	PROA
749	ATOM	749	OG	SER	P	46	8.662	-9.505	-21.964	0.00	0.00	PROA
750	ATOM	750	HG1	SER	P	46	8.205	-8.844	-22.489	0.00	0.00	PROA
751	ATOM	751	C	SER	P	46	5.892	-10.636	-21.327	0.00	0.00	PROA
752	ATOM	752	O	SER	P	46	5.410	-9.557	-20.990	0.00	0.00	PROA
753	ATOM	753	N	GLY	P	47	5.919	-11.801	-20.591	0.00	0.00	PROA
754	ATOM	754	HN	GLY	P	47	6.252	-12.658	-20.977	0.00	0.00	PROA
755	ATOM	755	CA	GLY	P	47	5.460	-11.949	-19.274	0.00	0.00	PROA
756	ATOM	756	HA1	GLY	P	47	4.382	-11.918	-19.205	0.00	0.00	PROA
757	ATOM	757	HA2	GLY	P	47	5.874	-11.118	-18.722	0.00	0.00	PROA
758	ATOM	758	C	GLY	P	47	6.015	-13.308	-18.776	0.00	0.00	PROA
759	ATOM	759	O	GLY	P	47	7.000	-13.745	-19.273	0.00	0.00	PROA
760	ATOM	760	N	SER	P	48	5.434	-13.954	-17.726	0.00	0.00	PROA
761	ATOM	761	HN	SER	P	48	4.603	-13.667	-17.257	0.00	0.00	PROA
762	ATOM	762	CA	SER	P	48	5.976	-15.170	-17.145	0.00	0.00	PROA
763	ATOM	763	HA	SER	P	48	6.587	-15.699	-17.861	0.00	0.00	PROA
764	ATOM	764	CB	SER	P	48	6.865	-14.915	-15.842	0.00	0.00	PROA
765	ATOM	765	HB1	SER	P	48	7.261	-15.876	-15.450	0.00	0.00	PROA
766	ATOM	766	HB2	SER	P	48	6.164	-14.456	-15.113	0.00	0.00	PROA
767	ATOM	767	OG	SER	P	48	8.079	-14.234	-16.098	0.00	0.00	PROA
768	ATOM	768	HG1	SER	P	48	7.852	-13.317	-16.266	0.00	0.00	PROA
769	ATOM	769	C	SER	P	48	4.793	-16.130	-16.822	0.00	0.00	PROA
770	ATOM	770	O	SER	P	48	3.591	-15.789	-16.877	0.00	0.00	PROA
771	ATOM	771	N	GLY	P	49	5.104	-17.344	-16.378	0.00	0.00	PROA
772	ATOM	772	HN	GLY	P	49	5.999	-17.784	-16.376	0.00	0.00	PROA
773	ATOM	773	CA	GLY	P	49	4.051	-18.214	-15.901	0.00	0.00	PROA
774	ATOM	774	HA1	GLY	P	49	3.515	-18.715	-16.694	0.00	0.00	PROA
775	ATOM	775	HA2	GLY	P	49	3.441	-17.531	-15.330	0.00	0.00	PROA
776	ATOM	776	C	GLY	P	49	4.656	-19.273	-15.128	0.00	0.00	PROA
777	ATOM	777	O	GLY	P	49	5.768	-19.278	-14.610	0.00	0.00	PROA
778	ATOM	778	N	PHE	P	50	3.890	-20.375	-14.950	0.00	0.00	PROA
779	ATOM	779	HN	PHE	P	50	2.939	-20.339	-15.246	0.00	0.00	PROA
780	ATOM	780	CA	PHE	P	50	4.382	-21.598	-14.386	0.00	0.00	PROA
781	ATOM	781	HA	PHE	P	50	5.431	-21.570	-14.640	0.00	0.00	PROA
782	ATOM	782	CB	PHE	P	50	4.260	-21.562	-12.837	0.00	0.00	PROA
783	ATOM	783	HB1	PHE	P	50	4.772	-20.751	-12.276	0.00	0.00	PROA
784	ATOM	784	HB2	PHE	P	50	4.774	-22.498	-12.532	0.00	0.00	PROA
785	ATOM	785	CG	PHE	P	50	2.845	-21.491	-12.325	0.00	0.00	PROA
786	ATOM	786	CD1	PHE	P	50	2.178	-20.342	-12.004	0.00	0.00	PROA
787	ATOM	787	HD1	PHE	P	50	2.665	-19.398	-12.199	0.00	0.00	PROA
788	ATOM	788	CE1	PHE	P	50	0.937	-20.393	-11.395	0.00	0.00	PROA
789	ATOM	789	HE1	PHE	P	50	0.448	-19.472	-11.114	0.00	0.00	PROA
790	ATOM	790	CZ	PHE	P	50	0.262	-21.600	-11.115	0.00	0.00	PROA
791	ATOM	791	HZ	PHE	P	50	-0.634	-21.642	-10.514	0.00	0.00	PROA
792	ATOM	792	CD2	PHE	P	50	2.167	-22.735	-12.103	0.00	0.00	PROA
793	ATOM	793	HD2	PHE	P	50	2.611	-23.654	-12.454	0.00	0.00	PROA
794	ATOM	794	CE2	PHE	P	50	0.883	-22.768	-11.528	0.00	0.00	PROA
795	ATOM	795	HE2	PHE	P	50	0.466	-23.720	-11.236	0.00	0.00	PROA
796	ATOM	796	C	PHE	P	50	3.798	-22.832	-15.095	0.00	0.00	PROA
797	ATOM	797	O	PHE	P	50	2.732	-22.814	-15.726	0.00	0.00	PROA
798	ATOM	798	N	ILE	P	51	4.525	-23.941	-15.046	0.00	0.00	PROA
799	ATOM	799	HN	ILE	P	51	5.453	-24.019	-14.689	0.00	0.00	PROA
800	ATOM	800	CA	ILE	P	51	4.212	-25.240	-15.434	0.00	0.00	PROA
801	ATOM	801	HA	ILE	P	51	3.848	-25.274	-16.450	0.00	0.00	PROA
802	ATOM	802	CB	ILE	P	51	5.431	-26.167	-15.363	0.00	0.00	PROA
803	ATOM	803	HB	ILE	P	51	5.935	-25.991	-14.388	0.00	0.00	PROA

804	ATOM	804	CG2	ILE	P	51	5.100	-27.625	-15.662	0.00	0.00	PROA
805	ATOM	805	HG21	ILE	P	51	4.433	-27.669	-16.550	0.00	0.00	PROA
806	ATOM	806	HG22	ILE	P	51	4.559	-27.976	-14.758	0.00	0.00	PROA
807	ATOM	807	HG23	ILE	P	51	6.061	-28.124	-15.907	0.00	0.00	PROA
808	ATOM	808	CG1	ILE	P	51	6.587	-25.612	-16.266	0.00	0.00	PROA
809	ATOM	809	HG11	ILE	P	51	6.960	-24.758	-15.661	0.00	0.00	PROA
810	ATOM	810	HG12	ILE	P	51	6.141	-25.195	-17.194	0.00	0.00	PROA
811	ATOM	811	CD	ILE	P	51	7.769	-26.556	-16.663	0.00	0.00	PROA
812	ATOM	812	HD1	ILE	P	51	7.447	-27.585	-16.931	0.00	0.00	PROA
813	ATOM	813	HD2	ILE	P	51	8.413	-26.663	-15.763	0.00	0.00	PROA
814	ATOM	814	HD3	ILE	P	51	8.197	-26.109	-17.585	0.00	0.00	PROA
815	ATOM	815	C	ILE	P	51	3.136	-25.839	-14.567	0.00	0.00	PROA
816	ATOM	816	O	ILE	P	51	3.454	-26.208	-13.427	0.00	0.00	PROA
817	ATOM	817	N	VAL	P	52	1.942	-25.932	-15.149	0.00	0.00	PROA
818	ATOM	818	HN	VAL	P	52	1.771	-25.654	-16.091	0.00	0.00	PROA
819	ATOM	819	CA	VAL	P	52	0.875	-26.437	-14.248	0.00	0.00	PROA
820	ATOM	820	HA	VAL	P	52	1.215	-26.610	-13.237	0.00	0.00	PROA
821	ATOM	821	CB	VAL	P	52	-0.321	-25.425	-13.984	0.00	0.00	PROA
822	ATOM	822	HB	VAL	P	52	0.192	-24.453	-13.822	0.00	0.00	PROA
823	ATOM	823	CG1	VAL	P	52	-1.189	-25.441	-15.190	0.00	0.00	PROA
824	ATOM	824	HG11	VAL	P	52	-1.918	-24.624	-15.000	0.00	0.00	PROA
825	ATOM	825	HG12	VAL	P	52	-1.817	-26.357	-15.164	0.00	0.00	PROA
826	ATOM	826	HG13	VAL	P	52	-0.725	-25.236	-16.179	0.00	0.00	PROA
827	ATOM	827	CG2	VAL	P	52	-1.054	-25.672	-12.631	0.00	0.00	PROA
828	ATOM	828	HG21	VAL	P	52	-1.650	-26.604	-12.737	0.00	0.00	PROA
829	ATOM	829	HG22	VAL	P	52	-1.751	-24.817	-12.495	0.00	0.00	PROA
830	ATOM	830	HG23	VAL	P	52	-0.374	-25.973	-11.805	0.00	0.00	PROA
831	ATOM	831	C	VAL	P	52	0.423	-27.846	-14.613	0.00	0.00	PROA
832	ATOM	832	O	VAL	P	52	-0.515	-28.402	-14.041	0.00	0.00	PROA
833	ATOM	833	N	SER	P	53	1.082	-28.471	-15.529	0.00	0.00	PROA
834	ATOM	834	HN	SER	P	53	1.851	-28.130	-16.064	0.00	0.00	PROA
835	ATOM	835	CA	SER	P	53	0.813	-29.850	-15.732	0.00	0.00	PROA
836	ATOM	836	HA	SER	P	53	0.550	-30.303	-14.788	0.00	0.00	PROA
837	ATOM	837	CB	SER	P	53	-0.454	-30.115	-16.641	0.00	0.00	PROA
838	ATOM	838	HB1	SER	P	53	-1.308	-29.412	-16.534	0.00	0.00	PROA
839	ATOM	839	HB2	SER	P	53	-0.828	-31.143	-16.451	0.00	0.00	PROA
840	ATOM	840	OG	SER	P	53	-0.177	-30.186	-18.054	0.00	0.00	PROA
841	ATOM	841	HG1	SER	P	53	-1.026	-30.144	-18.500	0.00	0.00	PROA
842	ATOM	842	C	SER	P	53	2.004	-30.598	-16.237	0.00	0.00	PROA
843	ATOM	843	O	SER	P	53	3.035	-30.120	-16.704	0.00	0.00	PROA
844	ATOM	844	N	GLU	P	54	2.010	-31.910	-15.989	0.00	0.00	PROA
845	ATOM	845	HN	GLU	P	54	1.283	-32.389	-15.503	0.00	0.00	PROA
846	ATOM	846	CA	GLU	P	54	3.017	-32.807	-16.427	0.00	0.00	PROA
847	ATOM	847	HA	GLU	P	54	3.904	-32.278	-16.114	0.00	0.00	PROA
848	ATOM	848	CB	GLU	P	54	2.863	-34.197	-15.740	0.00	0.00	PROA
849	ATOM	849	HB1	GLU	P	54	3.707	-34.891	-15.945	0.00	0.00	PROA
850	ATOM	850	HB2	GLU	P	54	1.926	-34.712	-16.041	0.00	0.00	PROA
851	ATOM	851	CG	GLU	P	54	2.850	-34.071	-14.183	0.00	0.00	PROA
852	ATOM	852	HG1	GLU	P	54	1.990	-33.436	-13.881	0.00	0.00	PROA
853	ATOM	853	HG2	GLU	P	54	3.812	-33.621	-13.857	0.00	0.00	PROA
854	ATOM	854	CD	GLU	P	54	2.493	-35.370	-13.483	0.00	0.00	PROA
855	ATOM	855	OE1	GLU	P	54	1.462	-35.388	-12.789	0.00	0.00	PROA
856	ATOM	856	OE2	GLU	P	54	3.264	-36.301	-13.539	0.00	0.00	PROA
857	ATOM	857	C	GLU	P	54	3.135	-33.053	-17.945	0.00	0.00	PROA
858	ATOM	858	O	GLU	P	54	4.218	-33.393	-18.469	0.00	0.00	PROA
859	ATOM	859	N	ASP	P	55	2.011	-32.801	-18.664	0.00	0.00	PROA
860	ATOM	860	HN	ASP	P	55	1.208	-32.635	-18.097	0.00	0.00	PROA
861	ATOM	861	CA	ASP	P	55	1.974	-32.866	-20.102	0.00	0.00	PROA
862	ATOM	862	HA	ASP	P	55	2.829	-33.412	-20.474	0.00	0.00	PROA
863	ATOM	863	CB	ASP	P	55	0.716	-33.520	-20.719	0.00	0.00	PROA
864	ATOM	864	HB1	ASP	P	55	0.658	-33.231	-21.790	0.00	0.00	PROA
865	ATOM	865	HB2	ASP	P	55	-0.095	-33.202	-20.030	0.00	0.00	PROA
866	ATOM	866	CG	ASP	P	55	0.869	-34.991	-20.692	0.00	0.00	PROA
867	ATOM	867	OD1	ASP	P	55	-0.228	-35.675	-20.845	0.00	0.00	PROA
868	ATOM	868	OD2	ASP	P	55	1.963	-35.486	-20.817	0.00	0.00	PROA
869	ATOM	869	C	ASP	P	55	2.283	-31.519	-20.682	0.00	0.00	PROA
870	ATOM	870	O	ASP	P	55	2.202	-31.363	-21.862	0.00	0.00	PROA
871	ATOM	871	N	GLY	P	56	2.731	-30.521	-19.901	0.00	0.00	PROA
872	ATOM	872	HN	GLY	P	56	2.807	-30.614	-18.911	0.00	0.00	PROA
873	ATOM	873	CA	GLY	P	56	3.274	-29.270	-20.438	0.00	0.00	PROA
874	ATOM	874	HA1	GLY	P	56	3.726	-29.336	-21.417	0.00	0.00	PROA
875	ATOM	875	HA2	GLY	P	56	3.996	-28.912	-19.719	0.00	0.00	PROA
876	ATOM	876	C	GLY	P	56	2.281	-28.117	-20.623	0.00	0.00	PROA

877	ATOM	877	O	GLY	P	56	2.413	-27.339	-21.598	0.00	0.00	PROA
878	ATOM	878	N	LEU	P	57	1.247	-27.961	-19.719	0.00	0.00	PROA
879	ATOM	879	HN	LEU	P	57	1.122	-28.646	-19.005	0.00	0.00	PROA
880	ATOM	880	CA	LEU	P	57	0.360	-26.775	-19.689	0.00	0.00	PROA
881	ATOM	881	HA	LEU	P	57	0.169	-26.523	-20.722	0.00	0.00	PROA
882	ATOM	882	CB	LEU	P	57	-1.022	-27.013	-19.046	0.00	0.00	PROA
883	ATOM	883	HB1	LEU	P	57	-1.635	-26.127	-18.777	0.00	0.00	PROA
884	ATOM	884	HB2	LEU	P	57	-0.783	-27.518	-18.086	0.00	0.00	PROA
885	ATOM	885	CG	LEU	P	57	-1.982	-27.965	-19.881	0.00	0.00	PROA
886	ATOM	886	HG	LEU	P	57	-1.380	-28.870	-20.109	0.00	0.00	PROA
887	ATOM	887	CD1	LEU	P	57	-3.255	-28.235	-18.998	0.00	0.00	PROA
888	ATOM	888	HD11	LEU	P	57	-3.797	-27.282	-18.817	0.00	0.00	PROA
889	ATOM	889	HD12	LEU	P	57	-3.179	-28.728	-18.005	0.00	0.00	PROA
890	ATOM	890	HD13	LEU	P	57	-3.907	-28.906	-19.597	0.00	0.00	PROA
891	ATOM	891	CD2	LEU	P	57	-2.448	-27.280	-21.191	0.00	0.00	PROA
892	ATOM	892	HD21	LEU	P	57	-3.010	-27.978	-21.848	0.00	0.00	PROA
893	ATOM	893	HD22	LEU	P	57	-1.530	-27.014	-21.758	0.00	0.00	PROA
894	ATOM	894	HD23	LEU	P	57	-2.951	-26.344	-20.867	0.00	0.00	PROA
895	ATOM	895	C	LEU	P	57	1.100	-25.708	-19.069	0.00	0.00	PROA
896	ATOM	896	O	LEU	P	57	1.624	-25.835	-17.983	0.00	0.00	PROA
897	ATOM	897	N	ILE	P	58	1.169	-24.540	-19.757	0.00	0.00	PROA
898	ATOM	898	HN	ILE	P	58	1.049	-24.598	-20.745	0.00	0.00	PROA
899	ATOM	899	CA	ILE	P	58	1.718	-23.343	-19.138	0.00	0.00	PROA
900	ATOM	900	HA	ILE	P	58	2.360	-23.596	-18.307	0.00	0.00	PROA
901	ATOM	901	CB	ILE	P	58	2.708	-22.670	-20.050	0.00	0.00	PROA
902	ATOM	902	HB	ILE	P	58	2.258	-22.430	-21.037	0.00	0.00	PROA
903	ATOM	903	CG2	ILE	P	58	3.356	-21.325	-19.420	0.00	0.00	PROA
904	ATOM	904	HG21	ILE	P	58	3.838	-21.495	-18.434	0.00	0.00	PROA
905	ATOM	905	HG22	ILE	P	58	2.516	-20.599	-19.450	0.00	0.00	PROA
906	ATOM	906	HG23	ILE	P	58	4.050	-20.900	-20.177	0.00	0.00	PROA
907	ATOM	907	CG1	ILE	P	58	3.846	-23.725	-20.429	0.00	0.00	PROA
908	ATOM	908	HG11	ILE	P	58	4.522	-23.200	-21.137	0.00	0.00	PROA
909	ATOM	909	HG12	ILE	P	58	3.435	-24.532	-21.071	0.00	0.00	PROA
910	ATOM	910	CD	ILE	P	58	4.749	-24.190	-19.251	0.00	0.00	PROA
911	ATOM	911	HD1	ILE	P	58	5.212	-23.323	-18.733	0.00	0.00	PROA
912	ATOM	912	HD2	ILE	P	58	5.673	-24.743	-19.522	0.00	0.00	PROA
913	ATOM	913	HD3	ILE	P	58	4.124	-24.734	-18.510	0.00	0.00	PROA
914	ATOM	914	C	ILE	P	58	0.525	-22.471	-18.792	0.00	0.00	PROA
915	ATOM	915	O	ILE	P	58	-0.354	-22.226	-19.639	0.00	0.00	PROA
916	ATOM	916	N	VAL	P	59	0.521	-21.808	-17.610	0.00	0.00	PROA
917	ATOM	917	HN	VAL	P	59	1.295	-21.902	-16.989	0.00	0.00	PROA
918	ATOM	918	CA	VAL	P	59	-0.565	-21.020	-17.107	0.00	0.00	PROA
919	ATOM	919	HA	VAL	P	59	-1.262	-20.814	-17.906	0.00	0.00	PROA
920	ATOM	920	CB	VAL	P	59	-1.267	-21.620	-15.941	0.00	0.00	PROA
921	ATOM	921	HB	VAL	P	59	-1.636	-22.651	-16.130	0.00	0.00	PROA
922	ATOM	922	CG1	VAL	P	59	-0.484	-21.551	-14.582	0.00	0.00	PROA
923	ATOM	923	HG11	VAL	P	59	-0.185	-20.541	-14.227	0.00	0.00	PROA
924	ATOM	924	HG12	VAL	P	59	0.464	-22.053	-14.871	0.00	0.00	PROA
925	ATOM	925	HG13	VAL	P	59	-0.926	-22.043	-13.689	0.00	0.00	PROA
926	ATOM	926	CG2	VAL	P	59	-2.669	-20.907	-15.865	0.00	0.00	PROA
927	ATOM	927	HG21	VAL	P	59	-2.678	-19.847	-15.531	0.00	0.00	PROA
928	ATOM	928	HG22	VAL	P	59	-3.279	-21.502	-15.153	0.00	0.00	PROA
929	ATOM	929	HG23	VAL	P	59	-3.283	-20.872	-16.791	0.00	0.00	PROA
930	ATOM	930	C	VAL	P	59	-0.011	-19.656	-16.837	0.00	0.00	PROA
931	ATOM	931	O	VAL	P	59	1.102	-19.437	-16.396	0.00	0.00	PROA
932	ATOM	932	N	THR	P	60	-0.768	-18.620	-17.294	0.00	0.00	PROA
933	ATOM	933	HN	THR	P	60	-1.633	-18.797	-17.757	0.00	0.00	PROA
934	ATOM	934	CA	THR	P	60	-0.413	-17.218	-17.244	0.00	0.00	PROA
935	ATOM	935	HA	THR	P	60	0.012	-17.011	-16.274	0.00	0.00	PROA
936	ATOM	936	CB	THR	P	60	0.565	-16.789	-18.370	0.00	0.00	PROA
937	ATOM	937	HB	THR	P	60	1.395	-17.520	-18.465	0.00	0.00	PROA
938	ATOM	938	OG1	THR	P	60	1.112	-15.491	-18.161	0.00	0.00	PROA
939	ATOM	939	HG1	THR	P	60	2.008	-15.639	-17.851	0.00	0.00	PROA
940	ATOM	940	CG2	THR	P	60	-0.135	-16.755	-19.670	0.00	0.00	PROA
941	ATOM	941	HG21	THR	P	60	-0.592	-17.722	-19.969	0.00	0.00	PROA
942	ATOM	942	HG22	THR	P	60	0.668	-16.437	-20.369	0.00	0.00	PROA
943	ATOM	943	HG23	THR	P	60	-0.929	-15.978	-19.683	0.00	0.00	PROA
944	ATOM	944	C	THR	P	60	-1.562	-16.352	-17.070	0.00	0.00	PROA
945	ATOM	945	O	THR	P	60	-2.644	-16.859	-16.803	0.00	0.00	PROA
946	ATOM	946	N	ASN	P	61	-1.410	-14.996	-17.234	0.00	0.00	PROA
947	ATOM	947	HN	ASN	P	61	-0.536	-14.614	-17.523	0.00	0.00	PROA
948	ATOM	948	CA	ASN	P	61	-2.479	-14.055	-17.084	0.00	0.00	PROA
949	ATOM	949	HA	ASN	P	61	-3.259	-14.585	-16.558	0.00	0.00	PROA

950	ATOM	950	CB	ASN	P	61	-2.094	-12.770	-16.264	0.00	0.00	PROA
951	ATOM	951	HB1	ASN	P	61	-2.997	-12.137	-16.135	0.00	0.00	PROA
952	ATOM	952	HB2	ASN	P	61	-1.485	-12.081	-16.887	0.00	0.00	PROA
953	ATOM	953	CG	ASN	P	61	-1.369	-13.054	-14.911	0.00	0.00	PROA
954	ATOM	954	OD1	ASN	P	61	-0.359	-12.412	-14.802	0.00	0.00	PROA
955	ATOM	955	ND2	ASN	P	61	-1.935	-13.889	-14.075	0.00	0.00	PROA
956	ATOM	956	HD21	ASN	P	61	-1.648	-13.834	-13.119	0.00	0.00	PROA
957	ATOM	957	HD22	ASN	P	61	-2.766	-14.374	-14.349	0.00	0.00	PROA
958	ATOM	958	C	ASN	P	61	-3.159	-13.461	-18.329	0.00	0.00	PROA
959	ATOM	959	O	ASN	P	61	-2.574	-13.403	-19.412	0.00	0.00	PROA
960	ATOM	960	N	ALA	P	62	-4.386	-13.050	-18.280	0.00	0.00	PROA
961	ATOM	961	HN	ALA	P	62	-4.839	-12.775	-17.435	0.00	0.00	PROA
962	ATOM	962	CA	ALA	P	62	-5.187	-12.860	-19.479	0.00	0.00	PROA
963	ATOM	963	HA	ALA	P	62	-4.985	-13.687	-20.144	0.00	0.00	PROA
964	ATOM	964	CB	ALA	P	62	-6.635	-12.861	-18.990	0.00	0.00	PROA
965	ATOM	965	HB1	ALA	P	62	-7.248	-12.614	-19.883	0.00	0.00	PROA
966	ATOM	966	HB2	ALA	P	62	-6.905	-11.942	-18.426	0.00	0.00	PROA
967	ATOM	967	HB3	ALA	P	62	-6.982	-13.776	-18.464	0.00	0.00	PROA
968	ATOM	968	C	ALA	P	62	-4.822	-11.569	-20.226	0.00	0.00	PROA
969	ATOM	969	O	ALA	P	62	-5.202	-11.480	-21.400	0.00	0.00	PROA
970	ATOM	970	N	HSD	P	63	-4.113	-10.607	-19.563	0.00	0.00	PROA
971	ATOM	971	HN	HSD	P	63	-4.031	-10.855	-18.600	0.00	0.00	PROA
972	ATOM	972	CA	HSD	P	63	-3.688	-9.308	-20.075	0.00	0.00	PROA
973	ATOM	973	HA	HSD	P	63	-4.384	-8.882	-20.783	0.00	0.00	PROA
974	ATOM	974	CB	HSD	P	63	-3.616	-8.277	-18.868	0.00	0.00	PROA
975	ATOM	975	HB1	HSD	P	63	-4.636	-8.217	-18.431	0.00	0.00	PROA
976	ATOM	976	HB2	HSD	P	63	-3.446	-7.278	-19.322	0.00	0.00	PROA
977	ATOM	977	ND1	HSD	P	63	-2.754	-9.251	-16.517	0.00	0.00	PROA
978	ATOM	978	HD1	HSD	P	63	-3.646	-9.614	-16.250	0.00	0.00	PROA
979	ATOM	979	CG	HSD	P	63	-2.521	-8.699	-17.778	0.00	0.00	PROA
980	ATOM	980	CE1	HSD	P	63	-1.603	-9.330	-15.839	0.00	0.00	PROA
981	ATOM	981	HE1	HSD	P	63	-1.409	-9.816	-14.883	0.00	0.00	PROA
982	ATOM	982	NE2	HSD	P	63	-0.621	-8.793	-16.574	0.00	0.00	PROA
983	ATOM	983	CD2	HSD	P	63	-1.166	-8.404	-17.795	0.00	0.00	PROA
984	ATOM	984	HD2	HSD	P	63	-0.712	-8.007	-18.695	0.00	0.00	PROA
985	ATOM	985	C	HSD	P	63	-2.365	-9.394	-20.809	0.00	0.00	PROA
986	ATOM	986	O	HSD	P	63	-1.865	-8.345	-21.223	0.00	0.00	PROA
987	ATOM	987	N	VAL	P	64	-1.781	-10.593	-21.070	0.00	0.00	PROA
988	ATOM	988	HN	VAL	P	64	-2.227	-11.390	-20.671	0.00	0.00	PROA
989	ATOM	989	CA	VAL	P	64	-0.532	-10.794	-21.688	0.00	0.00	PROA
990	ATOM	990	HA	VAL	P	64	-0.095	-9.839	-21.937	0.00	0.00	PROA
991	ATOM	991	CB	VAL	P	64	0.401	-11.687	-20.827	0.00	0.00	PROA
992	ATOM	992	HB	VAL	P	64	-0.056	-12.613	-20.419	0.00	0.00	PROA
993	ATOM	993	CG1	VAL	P	64	1.615	-12.159	-21.609	0.00	0.00	PROA
994	ATOM	994	HG11	VAL	P	64	2.047	-11.259	-22.097	0.00	0.00	PROA
995	ATOM	995	HG12	VAL	P	64	1.376	-12.894	-22.407	0.00	0.00	PROA
996	ATOM	996	HG13	VAL	P	64	2.397	-12.586	-20.946	0.00	0.00	PROA
997	ATOM	997	CG2	VAL	P	64	0.941	-10.920	-19.665	0.00	0.00	PROA
998	ATOM	998	HG21	VAL	P	64	0.139	-10.518	-19.009	0.00	0.00	PROA
999	ATOM	999	HG22	VAL	P	64	1.370	-9.980	-20.073	0.00	0.00	PROA
1000	ATOM	1000	HG23	VAL	P	64	1.686	-11.495	-19.074	0.00	0.00	PROA
1001	ATOM	1001	C	VAL	P	64	-0.691	-11.371	-23.031	0.00	0.00	PROA
1002	ATOM	1002	O	VAL	P	64	-0.004	-11.160	-24.009	0.00	0.00	PROA
1003	ATOM	1003	N	VAL	P	65	-1.853	-11.953	-23.186	0.00	0.00	PROA
1004	ATOM	1004	HN	VAL	P	65	-2.386	-11.816	-22.354	0.00	0.00	PROA
1005	ATOM	1005	CA	VAL	P	65	-2.510	-12.512	-24.377	0.00	0.00	PROA
1006	ATOM	1006	HA	VAL	P	65	-1.928	-13.360	-24.707	0.00	0.00	PROA
1007	ATOM	1007	CB	VAL	P	65	-3.854	-13.281	-24.066	0.00	0.00	PROA
1008	ATOM	1008	HB	VAL	P	65	-4.562	-12.498	-23.718	0.00	0.00	PROA
1009	ATOM	1009	CG1	VAL	P	65	-4.444	-13.852	-25.359	0.00	0.00	PROA
1010	ATOM	1010	HG11	VAL	P	65	-3.830	-14.525	-25.994	0.00	0.00	PROA
1011	ATOM	1011	HG12	VAL	P	65	-4.811	-13.050	-26.035	0.00	0.00	PROA
1012	ATOM	1012	HG13	VAL	P	65	-5.431	-14.266	-25.060	0.00	0.00	PROA
1013	ATOM	1013	CG2	VAL	P	65	-3.725	-14.346	-22.989	0.00	0.00	PROA
1014	ATOM	1014	HG21	VAL	P	65	-3.605	-13.866	-21.995	0.00	0.00	PROA
1015	ATOM	1015	HG22	VAL	P	65	-2.903	-15.040	-23.268	0.00	0.00	PROA
1016	ATOM	1016	HG23	VAL	P	65	-4.630	-14.952	-22.770	0.00	0.00	PROA
1017	ATOM	1017	C	VAL	P	65	-2.478	-11.540	-25.610	0.00	0.00	PROA
1018	ATOM	1018	O	VAL	P	65	-2.673	-10.324	-25.518	0.00	0.00	PROA
1019	ATOM	1019	N	THR	P	66	-2.291	-12.056	-26.813	0.00	0.00	PROA
1020	ATOM	1020	HN	THR	P	66	-2.143	-13.030	-26.966	0.00	0.00	PROA
1021	ATOM	1021	CA	THR	P	66	-2.646	-11.328	-27.972	0.00	0.00	PROA
1022	ATOM	1022	HA	THR	P	66	-3.632	-10.897	-27.878	0.00	0.00	PROA

1023	ATOM	1023	CB	THR	P	66	-1.650	-10.138	-28.415	0.00	0.00	PROA
1024	ATOM	1024	HB	THR	P	66	-1.936	-9.271	-27.781	0.00	0.00	PROA
1025	ATOM	1025	OG1	THR	P	66	-1.814	-9.814	-29.817	0.00	0.00	PROA
1026	ATOM	1026	HG1	THR	P	66	-2.585	-9.267	-29.980	0.00	0.00	PROA
1027	ATOM	1027	CG2	THR	P	66	-0.168	-10.561	-28.188	0.00	0.00	PROA
1028	ATOM	1028	HG21	THR	P	66	0.020	-10.665	-27.098	0.00	0.00	PROA
1029	ATOM	1029	HG22	THR	P	66	0.549	-9.810	-28.583	0.00	0.00	PROA
1030	ATOM	1030	HG23	THR	P	66	-0.019	-11.497	-28.768	0.00	0.00	PROA
1031	ATOM	1031	C	THR	P	66	-2.843	-12.426	-29.043	0.00	0.00	PROA
1032	ATOM	1032	O	THR	P	66	-2.175	-13.462	-29.057	0.00	0.00	PROA
1033	ATOM	1033	N	ASN	P	67	-3.816	-12.215	-29.954	0.00	0.00	PROA
1034	ATOM	1034	HN	ASN	P	67	-4.298	-11.344	-30.007	0.00	0.00	PROA
1035	ATOM	1035	CA	ASN	P	67	-4.103	-13.135	-31.048	0.00	0.00	PROA
1036	ATOM	1036	HA	ASN	P	67	-3.784	-14.127	-30.766	0.00	0.00	PROA
1037	ATOM	1037	CB	ASN	P	67	-5.605	-13.132	-31.434	0.00	0.00	PROA
1038	ATOM	1038	HB1	ASN	P	67	-5.791	-13.809	-32.295	0.00	0.00	PROA
1039	ATOM	1039	HB2	ASN	P	67	-5.961	-12.125	-31.736	0.00	0.00	PROA
1040	ATOM	1040	CG	ASN	P	67	-6.570	-13.518	-30.287	0.00	0.00	PROA
1041	ATOM	1041	OD1	ASN	P	67	-7.495	-12.829	-30.055	0.00	0.00	PROA
1042	ATOM	1042	ND2	ASN	P	67	-6.342	-14.688	-29.545	0.00	0.00	PROA
1043	ATOM	1043	HD21	ASN	P	67	-6.867	-14.794	-28.700	0.00	0.00	PROA
1044	ATOM	1044	HD22	ASN	P	67	-5.822	-15.437	-29.956	0.00	0.00	PROA
1045	ATOM	1045	C	ASN	P	67	-3.298	-12.711	-32.265	0.00	0.00	PROA
1046	ATOM	1046	O	ASN	P	67	-3.328	-13.564	-33.170	0.00	0.00	PROA
1047	ATOM	1047	N	LYS	P	68	-2.523	-11.656	-32.232	0.00	0.00	PROA
1048	ATOM	1048	HN	LYS	P	68	-2.535	-11.052	-31.439	0.00	0.00	PROA
1049	ATOM	1049	CA	LYS	P	68	-1.948	-11.074	-33.443	0.00	0.00	PROA
1050	ATOM	1050	HA	LYS	P	68	-2.263	-11.526	-34.372	0.00	0.00	PROA
1051	ATOM	1051	CB	LYS	P	68	-2.306	-9.518	-33.520	0.00	0.00	PROA
1052	ATOM	1052	HB1	LYS	P	68	-1.921	-9.020	-34.435	0.00	0.00	PROA
1053	ATOM	1053	HB2	LYS	P	68	-1.932	-8.957	-32.637	0.00	0.00	PROA
1054	ATOM	1054	CG	LYS	P	68	-3.884	-9.366	-33.572	0.00	0.00	PROA
1055	ATOM	1055	HG1	LYS	P	68	-4.439	-9.613	-32.642	0.00	0.00	PROA
1056	ATOM	1056	HG2	LYS	P	68	-4.326	-10.065	-34.314	0.00	0.00	PROA
1057	ATOM	1057	CD	LYS	P	68	-4.224	-7.832	-33.761	0.00	0.00	PROA
1058	ATOM	1058	HD1	LYS	P	68	-4.113	-7.524	-34.822	0.00	0.00	PROA
1059	ATOM	1059	HD2	LYS	P	68	-3.526	-7.238	-33.133	0.00	0.00	PROA
1060	ATOM	1060	CE	LYS	P	68	-5.706	-7.408	-33.386	0.00	0.00	PROA
1061	ATOM	1061	HE1	LYS	P	68	-5.833	-6.325	-33.173	0.00	0.00	PROA
1062	ATOM	1062	HE2	LYS	P	68	-5.994	-8.053	-32.529	0.00	0.00	PROA
1063	ATOM	1063	NZ	LYS	P	68	-6.653	-7.836	-34.409	0.00	0.00	PROA
1064	ATOM	1064	HZ1	LYS	P	68	-7.015	-6.959	-34.836	0.00	0.00	PROA
1065	ATOM	1065	HZ2	LYS	P	68	-7.353	-8.510	-34.038	0.00	0.00	PROA
1066	ATOM	1066	HZ3	LYS	P	68	-6.122	-8.230	-35.211	0.00	0.00	PROA
1067	ATOM	1067	C	LYS	P	68	-0.460	-11.308	-33.589	0.00	0.00	PROA
1068	ATOM	1068	O	LYS	P	68	0.084	-10.845	-34.624	0.00	0.00	PROA
1069	ATOM	1069	N	HSD	P	69	0.220	-11.931	-32.639	0.00	0.00	PROA
1070	ATOM	1070	HN	HSD	P	69	-0.142	-12.346	-31.808	0.00	0.00	PROA
1071	ATOM	1071	CA	HSD	P	69	1.600	-12.123	-32.625	0.00	0.00	PROA
1072	ATOM	1072	HA	HSD	P	69	1.971	-12.083	-33.639	0.00	0.00	PROA
1073	ATOM	1073	CB	HSD	P	69	2.281	-10.973	-31.725	0.00	0.00	PROA
1074	ATOM	1074	HB1	HSD	P	69	3.389	-11.027	-31.796	0.00	0.00	PROA
1075	ATOM	1075	HB2	HSD	P	69	2.088	-11.165	-30.648	0.00	0.00	PROA
1076	ATOM	1076	ND1	HSD	P	69	0.816	-8.891	-31.520	0.00	0.00	PROA
1077	ATOM	1077	HD1	HSD	P	69	0.199	-8.991	-30.740	0.00	0.00	PROA
1078	ATOM	1078	CG	HSD	P	69	1.744	-9.677	-32.145	0.00	0.00	PROA
1079	ATOM	1079	CE1	HSD	P	69	0.756	-7.753	-32.267	0.00	0.00	PROA
1080	ATOM	1080	HE1	HSD	P	69	-0.016	-6.990	-32.158	0.00	0.00	PROA
1081	ATOM	1081	NE2	HSD	P	69	1.631	-7.662	-33.191	0.00	0.00	PROA
1082	ATOM	1082	CD2	HSD	P	69	2.264	-8.896	-33.139	0.00	0.00	PROA
1083	ATOM	1083	HD2	HSD	P	69	2.942	-9.170	-33.938	0.00	0.00	PROA
1084	ATOM	1084	C	HSD	P	69	1.894	-13.545	-32.107	0.00	0.00	PROA
1085	ATOM	1085	O	HSD	P	69	0.974	-14.273	-31.753	0.00	0.00	PROA
1086	ATOM	1086	N	ARG	P	70	3.119	-14.026	-32.317	0.00	0.00	PROA
1087	ATOM	1087	HN	ARG	P	70	3.801	-13.368	-32.625	0.00	0.00	PROA
1088	ATOM	1088	CA	ARG	P	70	3.571	-15.405	-32.034	0.00	0.00	PROA
1089	ATOM	1089	HA	ARG	P	70	2.804	-16.057	-32.424	0.00	0.00	PROA
1090	ATOM	1090	CB	ARG	P	70	4.877	-15.740	-32.852	0.00	0.00	PROA
1091	ATOM	1091	HB1	ARG	P	70	5.212	-16.790	-32.716	0.00	0.00	PROA
1092	ATOM	1092	HB2	ARG	P	70	5.657	-15.007	-32.552	0.00	0.00	PROA
1093	ATOM	1093	CG	ARG	P	70	4.659	-15.648	-34.435	0.00	0.00	PROA
1094	ATOM	1094	HG1	ARG	P	70	3.652	-15.240	-34.668	0.00	0.00	PROA
1095	ATOM	1095	HG2	ARG	P	70	4.599	-16.697	-34.797	0.00	0.00	PROA

1096	ATOM	1096	CD	ARG	P	70	5.691	-14.814	-35.143	0.00	0.00	PROA
1097	ATOM	1097	HD1	ARG	P	70	6.653	-15.366	-35.070	0.00	0.00	PROA
1098	ATOM	1098	HD2	ARG	P	70	5.829	-13.819	-34.670	0.00	0.00	PROA
1099	ATOM	1099	NE	ARG	P	70	5.408	-14.696	-36.582	0.00	0.00	PROA
1100	ATOM	1100	HE	ARG	P	70	5.102	-13.801	-36.906	0.00	0.00	PROA
1101	ATOM	1101	CZ	ARG	P	70	5.148	-15.619	-37.465	0.00	0.00	PROA
1102	ATOM	1102	NH1	ARG	P	70	5.460	-16.889	-37.268	0.00	0.00	PROA
1103	ATOM	1103	HH11	ARG	P	70	6.111	-17.190	-36.571	0.00	0.00	PROA
1104	ATOM	1104	HH12	ARG	P	70	5.331	-17.534	-38.021	0.00	0.00	PROA
1105	ATOM	1105	NH2	ARG	P	70	4.464	-15.206	-38.534	0.00	0.00	PROA
1106	ATOM	1106	HH21	ARG	P	70	4.071	-14.287	-38.529	0.00	0.00	PROA
1107	ATOM	1107	HH22	ARG	P	70	4.763	-15.611	-39.398	0.00	0.00	PROA
1108	ATOM	1108	C	ARG	P	70	3.821	-15.628	-30.512	0.00	0.00	PROA
1109	ATOM	1109	O	ARG	P	70	4.240	-14.677	-29.840	0.00	0.00	PROA
1110	ATOM	1110	N	VAL	P	71	3.598	-16.780	-29.931	0.00	0.00	PROA
1111	ATOM	1111	HN	VAL	P	71	3.074	-17.430	-30.477	0.00	0.00	PROA
1112	ATOM	1112	CA	VAL	P	71	3.871	-17.233	-28.574	0.00	0.00	PROA
1113	ATOM	1113	HA	VAL	P	71	4.188	-16.416	-27.943	0.00	0.00	PROA
1114	ATOM	1114	CB	VAL	P	71	2.691	-17.654	-27.734	0.00	0.00	PROA
1115	ATOM	1115	HB	VAL	P	71	2.256	-18.550	-28.225	0.00	0.00	PROA
1116	ATOM	1116	CG1	VAL	P	71	3.096	-18.069	-26.343	0.00	0.00	PROA
1117	ATOM	1117	HG11	VAL	P	71	3.645	-19.035	-26.334	0.00	0.00	PROA
1118	ATOM	1118	HG12	VAL	P	71	2.211	-18.104	-25.673	0.00	0.00	PROA
1119	ATOM	1119	HG13	VAL	P	71	3.741	-17.292	-25.881	0.00	0.00	PROA
1120	ATOM	1120	CG2	VAL	P	71	1.721	-16.467	-27.766	0.00	0.00	PROA
1121	ATOM	1121	HG21	VAL	P	71	1.271	-16.353	-28.775	0.00	0.00	PROA
1122	ATOM	1122	HG22	VAL	P	71	2.238	-15.629	-27.250	0.00	0.00	PROA
1123	ATOM	1123	HG23	VAL	P	71	0.872	-16.799	-27.131	0.00	0.00	PROA
1124	ATOM	1124	C	VAL	P	71	5.045	-18.251	-28.451	0.00	0.00	PROA
1125	ATOM	1125	O	VAL	P	71	5.001	-19.312	-29.032	0.00	0.00	PROA
1126	ATOM	1126	N	LYS	P	72	6.058	-17.915	-27.667	0.00	0.00	PROA
1127	ATOM	1127	HN	LYS	P	72	6.213	-17.007	-27.285	0.00	0.00	PROA
1128	ATOM	1128	CA	LYS	P	72	7.055	-18.846	-27.290	0.00	0.00	PROA
1129	ATOM	1129	HA	LYS	P	72	6.698	-19.858	-27.408	0.00	0.00	PROA
1130	ATOM	1130	CB	LYS	P	72	8.340	-18.662	-28.084	0.00	0.00	PROA
1131	ATOM	1131	HB1	LYS	P	72	8.040	-18.864	-29.135	0.00	0.00	PROA
1132	ATOM	1132	HB2	LYS	P	72	9.014	-19.508	-27.829	0.00	0.00	PROA
1133	ATOM	1133	CG	LYS	P	72	9.113	-17.307	-28.070	0.00	0.00	PROA
1134	ATOM	1134	HG1	LYS	P	72	9.363	-16.905	-27.065	0.00	0.00	PROA
1135	ATOM	1135	HG2	LYS	P	72	8.469	-16.558	-28.578	0.00	0.00	PROA
1136	ATOM	1136	CD	LYS	P	72	10.462	-17.393	-28.903	0.00	0.00	PROA
1137	ATOM	1137	HD1	LYS	P	72	10.393	-18.105	-29.753	0.00	0.00	PROA
1138	ATOM	1138	HD2	LYS	P	72	11.325	-17.647	-28.250	0.00	0.00	PROA
1139	ATOM	1139	CE	LYS	P	72	10.844	-15.989	-29.389	0.00	0.00	PROA
1140	ATOM	1140	HE1	LYS	P	72	10.655	-15.391	-28.472	0.00	0.00	PROA
1141	ATOM	1141	HE2	LYS	P	72	10.218	-15.587	-30.214	0.00	0.00	PROA
1142	ATOM	1142	NZ	LYS	P	72	12.225	-15.919	-29.918	0.00	0.00	PROA
1143	ATOM	1143	HZ1	LYS	P	72	12.888	-16.435	-29.305	0.00	0.00	PROA
1144	ATOM	1144	HZ2	LYS	P	72	12.482	-14.911	-29.931	0.00	0.00	PROA
1145	ATOM	1145	HZ3	LYS	P	72	12.249	-16.252	-30.903	0.00	0.00	PROA
1146	ATOM	1146	C	LYS	P	72	7.220	-18.761	-25.806	0.00	0.00	PROA
1147	ATOM	1147	O	LYS	P	72	7.160	-17.739	-25.123	0.00	0.00	PROA
1148	ATOM	1148	N	VAL	P	73	7.358	-19.944	-25.208	0.00	0.00	PROA
1149	ATOM	1149	HN	VAL	P	73	7.356	-20.768	-25.769	0.00	0.00	PROA
1150	ATOM	1150	CA	VAL	P	73	7.549	-20.155	-23.795	0.00	0.00	PROA
1151	ATOM	1151	HA	VAL	P	73	7.375	-19.232	-23.262	0.00	0.00	PROA
1152	ATOM	1152	CB	VAL	P	73	6.516	-21.199	-23.165	0.00	0.00	PROA
1153	ATOM	1153	HB	VAL	P	73	6.562	-22.240	-23.551	0.00	0.00	PROA
1154	ATOM	1154	CG1	VAL	P	73	6.826	-21.130	-21.595	0.00	0.00	PROA
1155	ATOM	1155	HG11	VAL	P	73	7.832	-21.503	-21.309	0.00	0.00	PROA
1156	ATOM	1156	HG12	VAL	P	73	6.098	-21.777	-21.058	0.00	0.00	PROA
1157	ATOM	1157	HG13	VAL	P	73	6.843	-20.063	-21.287	0.00	0.00	PROA
1158	ATOM	1158	CG2	VAL	P	73	5.091	-20.823	-23.440	0.00	0.00	PROA
1159	ATOM	1159	HG21	VAL	P	73	4.461	-21.643	-23.034	0.00	0.00	PROA
1160	ATOM	1160	HG22	VAL	P	73	4.942	-20.606	-24.519	0.00	0.00	PROA
1161	ATOM	1161	HG23	VAL	P	73	4.845	-19.894	-22.881	0.00	0.00	PROA
1162	ATOM	1162	C	VAL	P	73	8.993	-20.576	-23.732	0.00	0.00	PROA
1163	ATOM	1163	O	VAL	P	73	9.448	-21.670	-24.142	0.00	0.00	PROA
1164	ATOM	1164	N	GLU	P	74	9.730	-19.816	-22.967	0.00	0.00	PROA
1165	ATOM	1165	HN	GLU	P	74	9.245	-19.196	-22.354	0.00	0.00	PROA
1166	ATOM	1166	CA	GLU	P	74	11.142	-20.006	-22.649	0.00	0.00	PROA
1167	ATOM	1167	HA	GLU	P	74	11.623	-20.547	-23.452	0.00	0.00	PROA
1168	ATOM	1168	CB	GLU	P	74	11.883	-18.666	-22.475	0.00	0.00	PROA

1169	ATOM	1169	HB1	GLU	P	74	11.293	-18.166	-21.677	0.00	0.00	PROA
1170	ATOM	1170	HB2	GLU	P	74	11.714	-17.997	-23.345	0.00	0.00	PROA
1171	ATOM	1171	CG	GLU	P	74	13.403	-18.668	-22.146	0.00	0.00	PROA
1172	ATOM	1172	HG1	GLU	P	74	14.037	-19.318	-22.786	0.00	0.00	PROA
1173	ATOM	1173	HG2	GLU	P	74	13.576	-19.000	-21.100	0.00	0.00	PROA
1174	ATOM	1174	CD	GLU	P	74	13.983	-17.245	-22.185	0.00	0.00	PROA
1175	ATOM	1175	OE1	GLU	P	74	14.795	-16.881	-23.043	0.00	0.00	PROA
1176	ATOM	1176	OE2	GLU	P	74	13.454	-16.531	-21.306	0.00	0.00	PROA
1177	ATOM	1177	C	GLU	P	74	11.283	-20.715	-21.251	0.00	0.00	PROA
1178	ATOM	1178	O	GLU	P	74	11.096	-20.158	-20.207	0.00	0.00	PROA
1179	ATOM	1179	N	LEU	P	75	11.697	-22.026	-21.249	0.00	0.00	PROA
1180	ATOM	1180	HN	LEU	P	75	12.131	-22.462	-22.033	0.00	0.00	PROA
1181	ATOM	1181	CA	LEU	P	75	11.806	-22.739	-20.020	0.00	0.00	PROA
1182	ATOM	1182	HA	LEU	P	75	11.139	-22.302	-19.292	0.00	0.00	PROA
1183	ATOM	1183	CB	LEU	P	75	11.565	-24.257	-20.213	0.00	0.00	PROA
1184	ATOM	1184	HB1	LEU	P	75	11.395	-24.814	-19.267	0.00	0.00	PROA
1185	ATOM	1185	HB2	LEU	P	75	12.362	-24.779	-20.785	0.00	0.00	PROA
1186	ATOM	1186	CG	LEU	P	75	10.267	-24.660	-20.959	0.00	0.00	PROA
1187	ATOM	1187	HG	LEU	P	75	10.165	-24.115	-21.922	0.00	0.00	PROA
1188	ATOM	1188	CD1	LEU	P	75	10.170	-26.201	-21.181	0.00	0.00	PROA
1189	ATOM	1189	HD11	LEU	P	75	9.770	-26.737	-20.293	0.00	0.00	PROA
1190	ATOM	1190	HD12	LEU	P	75	11.165	-26.517	-21.562	0.00	0.00	PROA
1191	ATOM	1191	HD13	LEU	P	75	9.393	-26.430	-21.941	0.00	0.00	PROA
1192	ATOM	1192	CD2	LEU	P	75	9.059	-24.111	-20.161	0.00	0.00	PROA
1193	ATOM	1193	HD21	LEU	P	75	8.162	-24.190	-20.812	0.00	0.00	PROA
1194	ATOM	1194	HD22	LEU	P	75	9.093	-23.012	-20.000	0.00	0.00	PROA
1195	ATOM	1195	HD23	LEU	P	75	8.833	-24.624	-19.202	0.00	0.00	PROA
1196	ATOM	1196	C	LEU	P	75	13.218	-22.603	-19.419	0.00	0.00	PROA
1197	ATOM	1197	O	LEU	P	75	14.156	-22.219	-20.094	0.00	0.00	PROA
1198	ATOM	1198	N	LYS	P	76	13.275	-22.867	-18.117	0.00	0.00	PROA
1199	ATOM	1199	HN	LYS	P	76	12.555	-23.345	-17.619	0.00	0.00	PROA
1200	ATOM	1200	CA	LYS	P	76	14.479	-22.605	-17.358	0.00	0.00	PROA
1201	ATOM	1201	HA	LYS	P	76	15.073	-21.877	-17.892	0.00	0.00	PROA
1202	ATOM	1202	CB	LYS	P	76	14.036	-22.051	-15.956	0.00	0.00	PROA
1203	ATOM	1203	HB1	LYS	P	76	14.975	-22.067	-15.363	0.00	0.00	PROA
1204	ATOM	1204	HB2	LYS	P	76	13.317	-22.811	-15.580	0.00	0.00	PROA
1205	ATOM	1205	CG	LYS	P	76	13.573	-20.586	-15.950	0.00	0.00	PROA
1206	ATOM	1206	HG1	LYS	P	76	13.453	-20.231	-14.904	0.00	0.00	PROA
1207	ATOM	1207	HG2	LYS	P	76	12.547	-20.650	-16.370	0.00	0.00	PROA
1208	ATOM	1208	CD	LYS	P	76	14.317	-19.602	-16.871	0.00	0.00	PROA
1209	ATOM	1209	HD1	LYS	P	76	13.720	-18.670	-16.773	0.00	0.00	PROA
1210	ATOM	1210	HD2	LYS	P	76	14.095	-19.955	-17.901	0.00	0.00	PROA
1211	ATOM	1211	CE	LYS	P	76	15.813	-19.454	-16.602	0.00	0.00	PROA
1212	ATOM	1212	HE1	LYS	P	76	16.274	-20.443	-16.389	0.00	0.00	PROA
1213	ATOM	1213	HE2	LYS	P	76	15.961	-18.820	-15.702	0.00	0.00	PROA
1214	ATOM	1214	NZ	LYS	P	76	16.465	-18.651	-17.645	0.00	0.00	PROA
1215	ATOM	1215	HZ1	LYS	P	76	16.668	-19.192	-18.509	0.00	0.00	PROA
1216	ATOM	1216	HZ2	LYS	P	76	17.356	-18.158	-17.431	0.00	0.00	PROA
1217	ATOM	1217	HZ3	LYS	P	76	15.865	-17.953	-18.130	0.00	0.00	PROA
1218	ATOM	1218	C	LYS	P	76	15.445	-23.801	-17.240	0.00	0.00	PROA
1219	ATOM	1219	O	LYS	P	76	16.677	-23.684	-17.112	0.00	0.00	PROA
1220	ATOM	1220	N	ASN	P	77	14.811	-25.028	-17.408	0.00	0.00	PROA
1221	ATOM	1221	HN	ASN	P	77	13.837	-25.192	-17.539	0.00	0.00	PROA
1222	ATOM	1222	CA	ASN	P	77	15.472	-26.242	-17.810	0.00	0.00	PROA
1223	ATOM	1223	HA	ASN	P	77	16.483	-26.003	-18.106	0.00	0.00	PROA
1224	ATOM	1224	CB	ASN	P	77	15.390	-27.293	-16.694	0.00	0.00	PROA
1225	ATOM	1225	HB1	ASN	P	77	14.323	-27.532	-16.496	0.00	0.00	PROA
1226	ATOM	1226	HB2	ASN	P	77	15.834	-26.876	-15.766	0.00	0.00	PROA
1227	ATOM	1227	CG	ASN	P	77	16.258	-28.501	-16.913	0.00	0.00	PROA
1228	ATOM	1228	OD1	ASN	P	77	17.203	-28.460	-17.735	0.00	0.00	PROA
1229	ATOM	1229	ND2	ASN	P	77	16.037	-29.584	-16.163	0.00	0.00	PROA
1230	ATOM	1230	HD21	ASN	P	77	16.727	-30.307	-16.113	0.00	0.00	PROA
1231	ATOM	1231	HD22	ASN	P	77	15.383	-29.622	-15.407	0.00	0.00	PROA
1232	ATOM	1232	C	ASN	P	77	14.661	-26.744	-19.023	0.00	0.00	PROA
1233	ATOM	1233	O	ASN	P	77	13.443	-26.600	-19.123	0.00	0.00	PROA
1234	ATOM	1234	N	GLY	P	78	15.290	-27.266	-20.067	0.00	0.00	PROA
1235	ATOM	1235	HN	GLY	P	78	16.286	-27.284	-20.089	0.00	0.00	PROA
1236	ATOM	1236	CA	GLY	P	78	14.665	-27.633	-21.262	0.00	0.00	PROA
1237	ATOM	1237	HA1	GLY	P	78	13.628	-27.934	-21.237	0.00	0.00	PROA
1238	ATOM	1238	HA2	GLY	P	78	15.186	-28.525	-21.575	0.00	0.00	PROA
1239	ATOM	1239	C	GLY	P	78	14.771	-26.476	-22.278	0.00	0.00	PROA
1240	ATOM	1240	O	GLY	P	78	15.265	-25.398	-21.936	0.00	0.00	PROA
1241	ATOM	1241	N	ALA	P	79	14.352	-26.717	-23.517	0.00	0.00	PROA

1242	ATOM	1242	HN	ALA	P	79	13.996	-27.623	-23.731	0.00	0.00	PROA
1243	ATOM	1243	CA	ALA	P	79	14.442	-25.777	-24.577	0.00	0.00	PROA
1244	ATOM	1244	HA	ALA	P	79	15.479	-25.475	-24.594	0.00	0.00	PROA
1245	ATOM	1245	CB	ALA	P	79	14.264	-26.637	-25.777	0.00	0.00	PROA
1246	ATOM	1246	HB1	ALA	P	79	15.076	-27.396	-25.813	0.00	0.00	PROA
1247	ATOM	1247	HB2	ALA	P	79	14.210	-25.976	-26.668	0.00	0.00	PROA
1248	ATOM	1248	HB3	ALA	P	79	13.270	-27.132	-25.748	0.00	0.00	PROA
1249	ATOM	1249	C	ALA	P	79	13.619	-24.511	-24.529	0.00	0.00	PROA
1250	ATOM	1250	O	ALA	P	79	12.841	-24.360	-23.589	0.00	0.00	PROA
1251	ATOM	1251	N	THR	P	80	13.735	-23.526	-25.404	0.00	0.00	PROA
1252	ATOM	1252	HN	THR	P	80	14.494	-23.556	-26.049	0.00	0.00	PROA
1253	ATOM	1253	CA	THR	P	80	12.717	-22.520	-25.562	0.00	0.00	PROA
1254	ATOM	1254	HA	THR	P	80	12.152	-22.430	-24.646	0.00	0.00	PROA
1255	ATOM	1255	CB	THR	P	80	13.254	-21.131	-26.056	0.00	0.00	PROA
1256	ATOM	1256	HB	THR	P	80	14.039	-21.129	-26.842	0.00	0.00	PROA
1257	ATOM	1257	OG1	THR	P	80	13.981	-20.564	-24.934	0.00	0.00	PROA
1258	ATOM	1258	HG1	THR	P	80	14.105	-21.260	-24.283	0.00	0.00	PROA
1259	ATOM	1259	CG2	THR	P	80	12.156	-20.111	-26.317	0.00	0.00	PROA
1260	ATOM	1260	HG21	THR	P	80	11.544	-19.919	-25.411	0.00	0.00	PROA
1261	ATOM	1261	HG22	THR	P	80	11.379	-20.438	-27.041	0.00	0.00	PROA
1262	ATOM	1262	HG23	THR	P	80	12.564	-19.097	-26.513	0.00	0.00	PROA
1263	ATOM	1263	C	THR	P	80	11.828	-23.039	-26.625	0.00	0.00	PROA
1264	ATOM	1264	O	THR	P	80	12.239	-23.579	-27.628	0.00	0.00	PROA
1265	ATOM	1265	N	TYR	P	81	10.479	-22.981	-26.401	0.00	0.00	PROA
1266	ATOM	1266	HN	TYR	P	81	10.122	-22.317	-25.749	0.00	0.00	PROA
1267	ATOM	1267	CA	TYR	P	81	9.460	-23.714	-27.115	0.00	0.00	PROA
1268	ATOM	1268	HA	TYR	P	81	9.814	-24.281	-27.964	0.00	0.00	PROA
1269	ATOM	1269	CB	TYR	P	81	8.504	-24.484	-26.134	0.00	0.00	PROA
1270	ATOM	1270	HB1	TYR	P	81	7.516	-24.758	-26.562	0.00	0.00	PROA
1271	ATOM	1271	HB2	TYR	P	81	8.497	-23.944	-25.163	0.00	0.00	PROA
1272	ATOM	1272	CG	TYR	P	81	9.288	-25.799	-25.943	0.00	0.00	PROA
1273	ATOM	1273	CD1	TYR	P	81	10.121	-25.782	-24.842	0.00	0.00	PROA
1274	ATOM	1274	HD1	TYR	P	81	10.180	-24.902	-24.220	0.00	0.00	PROA
1275	ATOM	1275	CE1	TYR	P	81	10.955	-26.953	-24.612	0.00	0.00	PROA
1276	ATOM	1276	HE1	TYR	P	81	11.536	-26.954	-23.701	0.00	0.00	PROA
1277	ATOM	1277	CZ	TYR	P	81	10.852	-28.035	-25.440	0.00	0.00	PROA
1278	ATOM	1278	OH	TYR	P	81	11.726	-29.088	-25.170	0.00	0.00	PROA
1279	ATOM	1279	HH	TYR	P	81	11.373	-29.737	-25.784	0.00	0.00	PROA
1280	ATOM	1280	CD2	TYR	P	81	9.280	-26.823	-26.873	0.00	0.00	PROA
1281	ATOM	1281	HD2	TYR	P	81	8.704	-26.544	-27.743	0.00	0.00	PROA
1282	ATOM	1282	CE2	TYR	P	81	10.069	-27.991	-26.634	0.00	0.00	PROA
1283	ATOM	1283	HE2	TYR	P	81	10.166	-28.794	-27.350	0.00	0.00	PROA
1284	ATOM	1284	C	TYR	P	81	8.442	-22.727	-27.665	0.00	0.00	PROA
1285	ATOM	1285	O	TYR	P	81	7.732	-22.132	-26.882	0.00	0.00	PROA
1286	ATOM	1286	N	GLU	P	82	8.279	-22.682	-29.009	0.00	0.00	PROA
1287	ATOM	1287	HN	GLU	P	82	8.857	-23.239	-29.600	0.00	0.00	PROA
1288	ATOM	1288	CA	GLU	P	82	7.192	-22.030	-29.650	0.00	0.00	PROA
1289	ATOM	1289	HA	GLU	P	82	7.078	-21.040	-29.233	0.00	0.00	PROA
1290	ATOM	1290	CB	GLU	P	82	7.360	-21.805	-31.163	0.00	0.00	PROA
1291	ATOM	1291	HB1	GLU	P	82	6.350	-21.720	-31.619	0.00	0.00	PROA
1292	ATOM	1292	HB2	GLU	P	82	7.746	-22.724	-31.653	0.00	0.00	PROA
1293	ATOM	1293	CG	GLU	P	82	8.179	-20.504	-31.542	0.00	0.00	PROA
1294	ATOM	1294	HG1	GLU	P	82	9.178	-20.667	-31.083	0.00	0.00	PROA
1295	ATOM	1295	HG2	GLU	P	82	7.748	-19.570	-31.123	0.00	0.00	PROA
1296	ATOM	1296	CD	GLU	P	82	8.306	-20.335	-33.010	0.00	0.00	PROA
1297	ATOM	1297	OE1	GLU	P	82	9.424	-20.108	-33.521	0.00	0.00	PROA
1298	ATOM	1298	OE2	GLU	P	82	7.251	-20.383	-33.734	0.00	0.00	PROA
1299	ATOM	1299	C	GLU	P	82	5.896	-22.729	-29.370	0.00	0.00	PROA
1300	ATOM	1300	O	GLU	P	82	5.825	-23.983	-29.423	0.00	0.00	PROA
1301	ATOM	1301	N	ALA	P	83	4.807	-22.051	-28.984	0.00	0.00	PROA
1302	ATOM	1302	HN	ALA	P	83	4.817	-21.054	-29.016	0.00	0.00	PROA
1303	ATOM	1303	CA	ALA	P	83	3.647	-22.671	-28.420	0.00	0.00	PROA
1304	ATOM	1304	HA	ALA	P	83	3.751	-23.741	-28.523	0.00	0.00	PROA
1305	ATOM	1305	CB	ALA	P	83	3.591	-22.366	-26.906	0.00	0.00	PROA
1306	ATOM	1306	HB1	ALA	P	83	2.711	-22.812	-26.395	0.00	0.00	PROA
1307	ATOM	1307	HB2	ALA	P	83	3.642	-21.271	-26.726	0.00	0.00	PROA
1308	ATOM	1308	HB3	ALA	P	83	4.547	-22.711	-26.458	0.00	0.00	PROA
1309	ATOM	1309	C	ALA	P	83	2.287	-22.288	-28.931	0.00	0.00	PROA
1310	ATOM	1310	O	ALA	P	83	2.098	-21.277	-29.568	0.00	0.00	PROA
1311	ATOM	1311	N	LYS	P	84	1.211	-23.066	-28.550	0.00	0.00	PROA
1312	ATOM	1312	HN	LYS	P	84	1.343	-23.724	-27.813	0.00	0.00	PROA
1313	ATOM	1313	CA	LYS	P	84	-0.183	-22.725	-28.810	0.00	0.00	PROA
1314	ATOM	1314	HA	LYS	P	84	-0.293	-22.217	-29.757	0.00	0.00	PROA

1315	ATOM	1315	CB	LYS	P	84	-0.942	-24.004	-29.252	0.00	0.00	PROA
1316	ATOM	1316	HB1	LYS	P	84	-0.608	-24.721	-28.473	0.00	0.00	PROA
1317	ATOM	1317	HB2	LYS	P	84	-0.563	-24.345	-30.239	0.00	0.00	PROA
1318	ATOM	1318	CG	LYS	P	84	-2.471	-23.992	-29.451	0.00	0.00	PROA
1319	ATOM	1319	HG1	LYS	P	84	-2.850	-23.687	-28.452	0.00	0.00	PROA
1320	ATOM	1320	HG2	LYS	P	84	-2.959	-24.964	-29.678	0.00	0.00	PROA
1321	ATOM	1321	CD	LYS	P	84	-2.871	-22.992	-30.529	0.00	0.00	PROA
1322	ATOM	1322	HD1	LYS	P	84	-2.282	-23.135	-31.460	0.00	0.00	PROA
1323	ATOM	1323	HD2	LYS	P	84	-2.782	-21.941	-30.182	0.00	0.00	PROA
1324	ATOM	1324	CE	LYS	P	84	-4.332	-23.289	-31.090	0.00	0.00	PROA
1325	ATOM	1325	HE1	LYS	P	84	-4.469	-24.216	-31.688	0.00	0.00	PROA
1326	ATOM	1326	HE2	LYS	P	84	-4.524	-22.514	-31.862	0.00	0.00	PROA
1327	ATOM	1327	NZ	LYS	P	84	-5.296	-23.206	-30.013	0.00	0.00	PROA
1328	ATOM	1328	HZ1	LYS	P	84	-4.968	-22.708	-29.161	0.00	0.00	PROA
1329	ATOM	1329	HZ2	LYS	P	84	-5.456	-24.207	-29.779	0.00	0.00	PROA
1330	ATOM	1330	HZ3	LYS	P	84	-6.130	-22.677	-30.338	0.00	0.00	PROA
1331	ATOM	1331	C	LYS	P	84	-0.889	-22.139	-27.566	0.00	0.00	PROA
1332	ATOM	1332	O	LYS	P	84	-0.786	-22.699	-26.441	0.00	0.00	PROA
1333	ATOM	1333	N	ILE	P	85	-1.599	-21.001	-27.760	0.00	0.00	PROA
1334	ATOM	1334	HN	ILE	P	85	-1.462	-20.521	-28.623	0.00	0.00	PROA
1335	ATOM	1335	CA	ILE	P	85	-2.663	-20.470	-26.895	0.00	0.00	PROA
1336	ATOM	1336	HA	ILE	P	85	-2.306	-20.414	-25.878	0.00	0.00	PROA
1337	ATOM	1337	CB	ILE	P	85	-3.159	-19.045	-27.312	0.00	0.00	PROA
1338	ATOM	1338	HB	ILE	P	85	-3.732	-19.136	-28.260	0.00	0.00	PROA
1339	ATOM	1339	CG2	ILE	P	85	-4.039	-18.485	-26.194	0.00	0.00	PROA
1340	ATOM	1340	HG21	ILE	P	85	-5.037	-18.954	-26.057	0.00	0.00	PROA
1341	ATOM	1341	HG22	ILE	P	85	-4.209	-17.387	-26.227	0.00	0.00	PROA
1342	ATOM	1342	HG23	ILE	P	85	-3.527	-18.632	-25.219	0.00	0.00	PROA
1343	ATOM	1343	CG1	ILE	P	85	-1.951	-18.083	-27.414	0.00	0.00	PROA
1344	ATOM	1344	HG11	ILE	P	85	-1.099	-18.491	-27.998	0.00	0.00	PROA
1345	ATOM	1345	HG12	ILE	P	85	-1.548	-18.012	-26.381	0.00	0.00	PROA
1346	ATOM	1346	CD	ILE	P	85	-2.226	-16.662	-28.016	0.00	0.00	PROA
1347	ATOM	1347	HD1	ILE	P	85	-2.876	-16.709	-28.916	0.00	0.00	PROA
1348	ATOM	1348	HD2	ILE	P	85	-1.297	-16.175	-28.383	0.00	0.00	PROA
1349	ATOM	1349	HD3	ILE	P	85	-2.699	-16.000	-27.260	0.00	0.00	PROA
1350	ATOM	1350	C	ILE	P	85	-3.888	-21.394	-26.842	0.00	0.00	PROA
1351	ATOM	1351	O	ILE	P	85	-4.374	-21.797	-27.856	0.00	0.00	PROA
1352	ATOM	1352	N	LYS	P	86	-4.357	-21.612	-25.605	0.00	0.00	PROA
1353	ATOM	1353	HN	LYS	P	86	-3.818	-21.214	-24.868	0.00	0.00	PROA
1354	ATOM	1354	CA	LYS	P	86	-5.446	-22.516	-25.281	0.00	0.00	PROA
1355	ATOM	1355	HA	LYS	P	86	-5.755	-22.993	-26.199	0.00	0.00	PROA
1356	ATOM	1356	CB	LYS	P	86	-4.964	-23.544	-24.120	0.00	0.00	PROA
1357	ATOM	1357	HB1	LYS	P	86	-5.806	-24.200	-23.810	0.00	0.00	PROA
1358	ATOM	1358	HB2	LYS	P	86	-4.819	-22.855	-23.260	0.00	0.00	PROA
1359	ATOM	1359	CG	LYS	P	86	-3.728	-24.428	-24.358	0.00	0.00	PROA
1360	ATOM	1360	HG1	LYS	P	86	-3.673	-24.986	-23.399	0.00	0.00	PROA
1361	ATOM	1361	HG2	LYS	P	86	-2.850	-23.795	-24.608	0.00	0.00	PROA
1362	ATOM	1362	CD	LYS	P	86	-4.048	-25.398	-25.509	0.00	0.00	PROA
1363	ATOM	1363	HD1	LYS	P	86	-3.144	-25.878	-25.938	0.00	0.00	PROA
1364	ATOM	1364	HD2	LYS	P	86	-4.410	-24.863	-26.413	0.00	0.00	PROA
1365	ATOM	1365	CE	LYS	P	86	-4.934	-26.617	-25.062	0.00	0.00	PROA
1366	ATOM	1366	HE1	LYS	P	86	-5.952	-26.286	-24.763	0.00	0.00	PROA
1367	ATOM	1367	HE2	LYS	P	86	-4.527	-27.114	-24.156	0.00	0.00	PROA
1368	ATOM	1368	NZ	LYS	P	86	-5.331	-27.585	-26.033	0.00	0.00	PROA
1369	ATOM	1369	HZ1	LYS	P	86	-4.551	-28.082	-26.509	0.00	0.00	PROA
1370	ATOM	1370	HZ2	LYS	P	86	-5.882	-27.210	-26.831	0.00	0.00	PROA
1371	ATOM	1371	HZ3	LYS	P	86	-5.908	-28.280	-25.518	0.00	0.00	PROA
1372	ATOM	1372	C	LYS	P	86	-6.526	-21.562	-24.748	0.00	0.00	PROA
1373	ATOM	1373	O	LYS	P	86	-6.609	-20.429	-25.324	0.00	0.00	PROA
1374	ATOM	1374	N	ASP	P	87	-7.362	-21.949	-23.692	0.00	0.00	PROA
1375	ATOM	1375	HN	ASP	P	87	-7.146	-22.896	-23.466	0.00	0.00	PROA
1376	ATOM	1376	CA	ASP	P	87	-8.409	-21.144	-23.117	0.00	0.00	PROA
1377	ATOM	1377	HA	ASP	P	87	-9.154	-20.972	-23.880	0.00	0.00	PROA
1378	ATOM	1378	CB	ASP	P	87	-9.420	-21.910	-22.222	0.00	0.00	PROA
1379	ATOM	1379	HB1	ASP	P	87	-10.294	-21.334	-21.849	0.00	0.00	PROA
1380	ATOM	1380	HB2	ASP	P	87	-8.822	-22.359	-21.400	0.00	0.00	PROA
1381	ATOM	1381	CG	ASP	P	87	-9.917	-23.106	-23.024	0.00	0.00	PROA
1382	ATOM	1382	OD1	ASP	P	87	-10.147	-24.159	-22.441	0.00	0.00	PROA
1383	ATOM	1383	OD2	ASP	P	87	-10.091	-22.973	-24.261	0.00	0.00	PROA
1384	ATOM	1384	C	ASP	P	87	-7.946	-19.842	-22.441	0.00	0.00	PROA
1385	ATOM	1385	O	ASP	P	87	-6.848	-19.896	-21.928	0.00	0.00	PROA
1386	ATOM	1386	N	VAL	P	88	-8.749	-18.807	-22.419	0.00	0.00	PROA
1387	ATOM	1387	HN	VAL	P	88	-9.619	-18.985	-22.872	0.00	0.00	PROA

1388	ATOM	1388	CA	VAL	P	88	-8.486	-17.461	-21.883	0.00	0.00	PROA
1389	ATOM	1389	HA	VAL	P	88	-7.598	-17.424	-21.268	0.00	0.00	PROA
1390	ATOM	1390	CB	VAL	P	88	-8.295	-16.410	-23.033	0.00	0.00	PROA
1391	ATOM	1391	HB	VAL	P	88	-9.270	-16.127	-23.484	0.00	0.00	PROA
1392	ATOM	1392	CG1	VAL	P	88	-7.746	-15.029	-22.481	0.00	0.00	PROA
1393	ATOM	1393	HG11	VAL	P	88	-8.618	-14.402	-22.197	0.00	0.00	PROA
1394	ATOM	1394	HG12	VAL	P	88	-7.123	-14.498	-23.232	0.00	0.00	PROA
1395	ATOM	1395	HG13	VAL	P	88	-7.152	-15.094	-21.544	0.00	0.00	PROA
1396	ATOM	1396	CG2	VAL	P	88	-7.201	-16.926	-23.944	0.00	0.00	PROA
1397	ATOM	1397	HG21	VAL	P	88	-7.477	-17.831	-24.527	0.00	0.00	PROA
1398	ATOM	1398	HG22	VAL	P	88	-6.321	-17.132	-23.298	0.00	0.00	PROA
1399	ATOM	1399	HG23	VAL	P	88	-6.833	-16.238	-24.735	0.00	0.00	PROA
1400	ATOM	1400	C	VAL	P	88	-9.763	-17.062	-21.139	0.00	0.00	PROA
1401	ATOM	1401	O	VAL	P	88	-10.904	-17.332	-21.606	0.00	0.00	PROA
1402	ATOM	1402	N	ASP	P	89	-9.574	-16.327	-20.023	0.00	0.00	PROA
1403	ATOM	1403	HN	ASP	P	89	-8.732	-16.315	-19.489	0.00	0.00	PROA
1404	ATOM	1404	CA	ASP	P	89	-10.755	-15.865	-19.264	0.00	0.00	PROA
1405	ATOM	1405	HA	ASP	P	89	-11.489	-15.645	-20.026	0.00	0.00	PROA
1406	ATOM	1406	CB	ASP	P	89	-11.232	-16.854	-18.109	0.00	0.00	PROA
1407	ATOM	1407	HB1	ASP	P	89	-10.569	-16.805	-17.219	0.00	0.00	PROA
1408	ATOM	1408	HB2	ASP	P	89	-11.168	-17.910	-18.449	0.00	0.00	PROA
1409	ATOM	1409	CG	ASP	P	89	-12.656	-16.448	-17.673	0.00	0.00	PROA
1410	ATOM	1410	OD1	ASP	P	89	-12.948	-16.581	-16.481	0.00	0.00	PROA
1411	ATOM	1411	OD2	ASP	P	89	-13.484	-16.020	-18.520	0.00	0.00	PROA
1412	ATOM	1412	C	ASP	P	89	-10.408	-14.541	-18.894	0.00	0.00	PROA
1413	ATOM	1413	O	ASP	P	89	-9.682	-14.333	-17.904	0.00	0.00	PROA
1414	ATOM	1414	N	GLU	P	90	-10.833	-13.450	-19.594	0.00	0.00	PROA
1415	ATOM	1415	HN	GLU	P	90	-11.424	-13.589	-20.385	0.00	0.00	PROA
1416	ATOM	1416	CA	GLU	P	90	-10.527	-12.091	-19.153	0.00	0.00	PROA
1417	ATOM	1417	HA	GLU	P	90	-9.448	-12.067	-19.180	0.00	0.00	PROA
1418	ATOM	1418	CB	GLU	P	90	-10.954	-11.129	-20.247	0.00	0.00	PROA
1419	ATOM	1419	HB1	GLU	P	90	-10.929	-10.053	-19.972	0.00	0.00	PROA
1420	ATOM	1420	HB2	GLU	P	90	-11.960	-11.511	-20.521	0.00	0.00	PROA
1421	ATOM	1421	CG	GLU	P	90	-9.931	-11.233	-21.441	0.00	0.00	PROA
1422	ATOM	1422	HG1	GLU	P	90	-10.363	-12.062	-22.041	0.00	0.00	PROA
1423	ATOM	1423	HG2	GLU	P	90	-8.891	-11.509	-21.164	0.00	0.00	PROA
1424	ATOM	1424	CD	GLU	P	90	-9.725	-9.882	-22.194	0.00	0.00	PROA
1425	ATOM	1425	OE1	GLU	P	90	-8.600	-9.347	-22.299	0.00	0.00	PROA
1426	ATOM	1426	OE2	GLU	P	90	-10.718	-9.417	-22.821	0.00	0.00	PROA
1427	ATOM	1427	C	GLU	P	90	-11.139	-11.615	-17.883	0.00	0.00	PROA
1428	ATOM	1428	O	GLU	P	90	-10.513	-10.836	-17.241	0.00	0.00	PROA
1429	ATOM	1429	N	LYS	P	91	-12.303	-12.113	-17.443	0.00	0.00	PROA
1430	ATOM	1430	HN	LYS	P	91	-12.859	-12.669	-18.056	0.00	0.00	PROA
1431	ATOM	1431	CA	LYS	P	91	-12.854	-11.698	-16.207	0.00	0.00	PROA
1432	ATOM	1432	HA	LYS	P	91	-12.771	-10.622	-16.169	0.00	0.00	PROA
1433	ATOM	1433	CB	LYS	P	91	-14.336	-12.138	-16.112	0.00	0.00	PROA
1434	ATOM	1434	HB1	LYS	P	91	-14.927	-11.521	-16.823	0.00	0.00	PROA
1435	ATOM	1435	HB2	LYS	P	91	-14.700	-11.910	-15.088	0.00	0.00	PROA
1436	ATOM	1436	CG	LYS	P	91	-14.592	-13.654	-16.295	0.00	0.00	PROA
1437	ATOM	1437	HG1	LYS	P	91	-14.004	-14.284	-15.593	0.00	0.00	PROA
1438	ATOM	1438	HG2	LYS	P	91	-14.188	-13.820	-17.316	0.00	0.00	PROA
1439	ATOM	1439	CD	LYS	P	91	-16.085	-13.989	-16.302	0.00	0.00	PROA
1440	ATOM	1440	HD1	LYS	P	91	-16.650	-13.310	-16.976	0.00	0.00	PROA
1441	ATOM	1441	HD2	LYS	P	91	-16.622	-13.843	-15.340	0.00	0.00	PROA
1442	ATOM	1442	CE	LYS	P	91	-16.345	-15.388	-16.895	0.00	0.00	PROA
1443	ATOM	1443	HE1	LYS	P	91	-15.903	-15.448	-17.913	0.00	0.00	PROA
1444	ATOM	1444	HE2	LYS	P	91	-17.427	-15.639	-16.910	0.00	0.00	PROA
1445	ATOM	1445	NZ	LYS	P	91	-15.632	-16.299	-16.000	0.00	0.00	PROA
1446	ATOM	1446	HZ1	LYS	P	91	-15.942	-17.279	-16.159	0.00	0.00	PROA
1447	ATOM	1447	HZ2	LYS	P	91	-15.743	-16.044	-14.998	0.00	0.00	PROA
1448	ATOM	1448	HZ3	LYS	P	91	-14.622	-16.355	-16.240	0.00	0.00	PROA
1449	ATOM	1449	C	LYS	P	91	-12.145	-12.313	-14.951	0.00	0.00	PROA
1450	ATOM	1450	O	LYS	P	91	-12.330	-11.821	-13.863	0.00	0.00	PROA
1451	ATOM	1451	N	ALA	P	92	-11.312	-13.398	-15.086	0.00	0.00	PROA
1452	ATOM	1452	HN	ALA	P	92	-11.167	-13.904	-15.932	0.00	0.00	PROA
1453	ATOM	1453	CA	ALA	P	92	-10.593	-13.954	-13.972	0.00	0.00	PROA
1454	ATOM	1454	HA	ALA	P	92	-10.898	-13.458	-13.063	0.00	0.00	PROA
1455	ATOM	1455	CB	ALA	P	92	-11.047	-15.379	-13.885	0.00	0.00	PROA
1456	ATOM	1456	HB1	ALA	P	92	-12.150	-15.400	-14.018	0.00	0.00	PROA
1457	ATOM	1457	HB2	ALA	P	92	-10.862	-15.757	-12.857	0.00	0.00	PROA
1458	ATOM	1458	HB3	ALA	P	92	-10.521	-16.086	-14.561	0.00	0.00	PROA
1459	ATOM	1459	C	ALA	P	92	-9.105	-13.827	-14.116	0.00	0.00	PROA
1460	ATOM	1460	O	ALA	P	92	-8.329	-14.520	-13.419	0.00	0.00	PROA

1461	ATOM	1461	N	ASP	P	93	-8.641	-12.994	-15.064	0.00	0.00	PROA
1462	ATOM	1462	HN	ASP	P	93	-9.292	-12.647	-15.735	0.00	0.00	PROA
1463	ATOM	1463	CA	ASP	P	93	-7.248	-12.743	-15.417	0.00	0.00	PROA
1464	ATOM	1464	HA	ASP	P	93	-7.381	-12.381	-16.426	0.00	0.00	PROA
1465	ATOM	1465	CB	ASP	P	93	-6.696	-11.454	-14.744	0.00	0.00	PROA
1466	ATOM	1466	HB1	ASP	P	93	-6.204	-11.630	-13.764	0.00	0.00	PROA
1467	ATOM	1467	HB2	ASP	P	93	-7.633	-10.874	-14.600	0.00	0.00	PROA
1468	ATOM	1468	CG	ASP	P	93	-5.593	-10.702	-15.451	0.00	0.00	PROA
1469	ATOM	1469	OD1	ASP	P	93	-5.485	-10.748	-16.735	0.00	0.00	PROA
1470	ATOM	1470	OD2	ASP	P	93	-4.800	-10.004	-14.768	0.00	0.00	PROA
1471	ATOM	1471	C	ASP	P	93	-6.318	-13.873	-15.552	0.00	0.00	PROA
1472	ATOM	1472	O	ASP	P	93	-5.183	-13.886	-15.134	0.00	0.00	PROA
1473	ATOM	1473	N	ILE	P	94	-6.778	-14.985	-16.259	0.00	0.00	PROA
1474	ATOM	1474	HN	ILE	P	94	-7.730	-14.960	-16.556	0.00	0.00	PROA
1475	ATOM	1475	CA	ILE	P	94	-6.138	-16.336	-16.362	0.00	0.00	PROA
1476	ATOM	1476	HA	ILE	P	94	-5.122	-16.239	-16.008	0.00	0.00	PROA
1477	ATOM	1477	CB	ILE	P	94	-6.731	-17.379	-15.486	0.00	0.00	PROA
1478	ATOM	1478	HB	ILE	P	94	-6.738	-16.941	-14.465	0.00	0.00	PROA
1479	ATOM	1479	CG2	ILE	P	94	-8.263	-17.759	-15.761	0.00	0.00	PROA
1480	ATOM	1480	HG21	ILE	P	94	-8.869	-16.828	-15.776	0.00	0.00	PROA
1481	ATOM	1481	HG22	ILE	P	94	-8.759	-18.371	-14.978	0.00	0.00	PROA
1482	ATOM	1482	HG23	ILE	P	94	-8.469	-18.219	-16.752	0.00	0.00	PROA
1483	ATOM	1483	CG1	ILE	P	94	-5.883	-18.616	-15.383	0.00	0.00	PROA
1484	ATOM	1484	HG11	ILE	P	94	-4.835	-18.284	-15.224	0.00	0.00	PROA
1485	ATOM	1485	HG12	ILE	P	94	-5.817	-19.217	-16.315	0.00	0.00	PROA
1486	ATOM	1486	CD	ILE	P	94	-6.199	-19.499	-14.119	0.00	0.00	PROA
1487	ATOM	1487	HD1	ILE	P	94	-5.363	-20.202	-13.912	0.00	0.00	PROA
1488	ATOM	1488	HD2	ILE	P	94	-7.064	-20.156	-14.351	0.00	0.00	PROA
1489	ATOM	1489	HD3	ILE	P	94	-6.508	-18.882	-13.248	0.00	0.00	PROA
1490	ATOM	1490	C	ILE	P	94	-6.118	-16.755	-17.846	0.00	0.00	PROA
1491	ATOM	1491	O	ILE	P	94	-7.156	-16.773	-18.495	0.00	0.00	PROA
1492	ATOM	1492	N	ALA	P	95	-4.899	-17.217	-18.319	0.00	0.00	PROA
1493	ATOM	1493	HN	ALA	P	95	-4.016	-17.320	-17.867	0.00	0.00	PROA
1494	ATOM	1494	CA	ALA	P	95	-4.940	-17.844	-19.626	0.00	0.00	PROA
1495	ATOM	1495	HA	ALA	P	95	-5.946	-18.164	-19.854	0.00	0.00	PROA
1496	ATOM	1496	CB	ALA	P	95	-4.469	-16.901	-20.768	0.00	0.00	PROA
1497	ATOM	1497	HB1	ALA	P	95	-5.134	-16.013	-20.708	0.00	0.00	PROA
1498	ATOM	1498	HB2	ALA	P	95	-4.431	-17.352	-21.783	0.00	0.00	PROA
1499	ATOM	1499	HB3	ALA	P	95	-3.442	-16.557	-20.519	0.00	0.00	PROA
1500	ATOM	1500	C	ALA	P	95	-3.979	-19.080	-19.658	0.00	0.00	PROA
1501	ATOM	1501	O	ALA	P	95	-3.103	-19.202	-18.841	0.00	0.00	PROA
1502	ATOM	1502	N	LEU	P	96	-4.153	-19.960	-20.674	0.00	0.00	PROA
1503	ATOM	1503	HN	LEU	P	96	-4.874	-19.756	-21.333	0.00	0.00	PROA
1504	ATOM	1504	CA	LEU	P	96	-3.531	-21.248	-20.798	0.00	0.00	PROA
1505	ATOM	1505	HA	LEU	P	96	-2.767	-21.350	-20.042	0.00	0.00	PROA
1506	ATOM	1506	CB	LEU	P	96	-4.765	-22.196	-20.624	0.00	0.00	PROA
1507	ATOM	1507	HB1	LEU	P	96	-5.455	-22.062	-21.485	0.00	0.00	PROA
1508	ATOM	1508	HB2	LEU	P	96	-5.326	-21.751	-19.774	0.00	0.00	PROA
1509	ATOM	1509	CG	LEU	P	96	-4.259	-23.614	-20.406	0.00	0.00	PROA
1510	ATOM	1510	HG	LEU	P	96	-3.513	-23.900	-21.178	0.00	0.00	PROA
1511	ATOM	1511	CD1	LEU	P	96	-3.393	-23.691	-19.080	0.00	0.00	PROA
1512	ATOM	1512	HD11	LEU	P	96	-2.330	-23.441	-19.284	0.00	0.00	PROA
1513	ATOM	1513	HD12	LEU	P	96	-3.400	-24.732	-18.691	0.00	0.00	PROA
1514	ATOM	1514	HD13	LEU	P	96	-3.762	-23.006	-18.287	0.00	0.00	PROA
1515	ATOM	1515	CD2	LEU	P	96	-5.345	-24.669	-20.183	0.00	0.00	PROA
1516	ATOM	1516	HD21	LEU	P	96	-4.870	-25.672	-20.130	0.00	0.00	PROA
1517	ATOM	1517	HD22	LEU	P	96	-6.058	-24.641	-21.035	0.00	0.00	PROA
1518	ATOM	1518	HD23	LEU	P	96	-5.969	-24.459	-19.288	0.00	0.00	PROA
1519	ATOM	1519	C	LEU	P	96	-2.843	-21.299	-22.122	0.00	0.00	PROA
1520	ATOM	1520	O	LEU	P	96	-3.385	-20.781	-23.076	0.00	0.00	PROA
1521	ATOM	1521	N	ILE	P	97	-1.650	-21.805	-22.152	0.00	0.00	PROA
1522	ATOM	1522	HN	ILE	P	97	-1.269	-22.067	-21.269	0.00	0.00	PROA
1523	ATOM	1523	CA	ILE	P	97	-0.858	-22.017	-23.335	0.00	0.00	PROA
1524	ATOM	1524	HA	ILE	P	97	-1.373	-21.711	-24.233	0.00	0.00	PROA
1525	ATOM	1525	CB	ILE	P	97	0.296	-20.959	-23.311	0.00	0.00	PROA
1526	ATOM	1526	HB	ILE	P	97	0.818	-20.919	-22.331	0.00	0.00	PROA
1527	ATOM	1527	CG2	ILE	P	97	1.408	-21.306	-24.378	0.00	0.00	PROA
1528	ATOM	1528	HG21	ILE	P	97	1.814	-22.331	-24.237	0.00	0.00	PROA
1529	ATOM	1529	HG22	ILE	P	97	2.309	-20.656	-24.376	0.00	0.00	PROA
1530	ATOM	1530	HG23	ILE	P	97	1.101	-21.197	-25.440	0.00	0.00	PROA
1531	ATOM	1531	CG1	ILE	P	97	-0.231	-19.506	-23.554	0.00	0.00	PROA
1532	ATOM	1532	HG11	ILE	P	97	-1.271	-19.312	-23.215	0.00	0.00	PROA
1533	ATOM	1533	HG12	ILE	P	97	-0.233	-19.460	-24.664	0.00	0.00	PROA

1534	ATOM	1534	CD	ILE	P	97	0.586	-18.367	-22.973	0.00	0.00	PROA
1535	ATOM	1535	HD1	ILE	P	97	0.352	-17.364	-23.389	0.00	0.00	PROA
1536	ATOM	1536	HD2	ILE	P	97	1.667	-18.450	-23.217	0.00	0.00	PROA
1537	ATOM	1537	HD3	ILE	P	97	0.495	-18.393	-21.866	0.00	0.00	PROA
1538	ATOM	1538	C	ILE	P	97	-0.368	-23.431	-23.277	0.00	0.00	PROA
1539	ATOM	1539	O	ILE	P	97	-0.018	-23.912	-22.222	0.00	0.00	PROA
1540	ATOM	1540	N	LYS	P	98	-0.124	-24.179	-24.358	0.00	0.00	PROA
1541	ATOM	1541	HN	LYS	P	98	-0.101	-23.685	-25.224	0.00	0.00	PROA
1542	ATOM	1542	CA	LYS	P	98	0.355	-25.588	-24.342	0.00	0.00	PROA
1543	ATOM	1543	HA	LYS	P	98	0.532	-26.026	-23.371	0.00	0.00	PROA
1544	ATOM	1544	CB	LYS	P	98	-0.672	-26.539	-25.033	0.00	0.00	PROA
1545	ATOM	1545	HB1	LYS	P	98	-0.876	-26.077	-26.022	0.00	0.00	PROA
1546	ATOM	1546	HB2	LYS	P	98	-1.646	-26.471	-24.503	0.00	0.00	PROA
1547	ATOM	1547	CG	LYS	P	98	-0.035	-27.903	-25.278	0.00	0.00	PROA
1548	ATOM	1548	HG1	LYS	P	98	0.738	-27.866	-26.075	0.00	0.00	PROA
1549	ATOM	1549	HG2	LYS	P	98	-0.890	-28.371	-25.812	0.00	0.00	PROA
1550	ATOM	1550	CD	LYS	P	98	0.226	-28.735	-24.016	0.00	0.00	PROA
1551	ATOM	1551	HD1	LYS	P	98	-0.715	-28.596	-23.442	0.00	0.00	PROA
1552	ATOM	1552	HD2	LYS	P	98	1.079	-28.309	-23.446	0.00	0.00	PROA
1553	ATOM	1553	CE	LYS	P	98	0.350	-30.181	-24.189	0.00	0.00	PROA
1554	ATOM	1554	HE1	LYS	P	98	-0.387	-30.745	-24.799	0.00	0.00	PROA
1555	ATOM	1555	HE2	LYS	P	98	0.265	-30.674	-23.197	0.00	0.00	PROA
1556	ATOM	1556	NZ	LYS	P	98	1.611	-30.588	-24.791	0.00	0.00	PROA
1557	ATOM	1557	HZ1	LYS	P	98	1.665	-30.386	-25.810	0.00	0.00	PROA
1558	ATOM	1558	HZ2	LYS	P	98	1.788	-31.611	-24.725	0.00	0.00	PROA
1559	ATOM	1559	HZ3	LYS	P	98	2.443	-30.204	-24.298	0.00	0.00	PROA
1560	ATOM	1560	C	LYS	P	98	1.758	-25.548	-24.957	0.00	0.00	PROA
1561	ATOM	1561	O	LYS	P	98	1.845	-25.114	-26.043	0.00	0.00	PROA
1562	ATOM	1562	N	ILE	P	99	2.843	-26.067	-24.325	0.00	0.00	PROA
1563	ATOM	1563	HN	ILE	P	99	2.801	-26.462	-23.411	0.00	0.00	PROA
1564	ATOM	1564	CA	ILE	P	99	4.102	-26.469	-25.061	0.00	0.00	PROA
1565	ATOM	1565	HA	ILE	P	99	4.095	-25.946	-26.006	0.00	0.00	PROA
1566	ATOM	1566	CB	ILE	P	99	5.323	-26.020	-24.280	0.00	0.00	PROA
1567	ATOM	1567	HB	ILE	P	99	6.291	-26.148	-24.809	0.00	0.00	PROA
1568	ATOM	1568	CG2	ILE	P	99	5.322	-24.398	-24.354	0.00	0.00	PROA
1569	ATOM	1569	HG21	ILE	P	99	5.896	-24.027	-25.230	0.00	0.00	PROA
1570	ATOM	1570	HG22	ILE	P	99	5.897	-24.148	-23.437	0.00	0.00	PROA
1571	ATOM	1571	HG23	ILE	P	99	4.288	-24.002	-24.265	0.00	0.00	PROA
1572	ATOM	1572	CG1	ILE	P	99	5.491	-26.490	-22.827	0.00	0.00	PROA
1573	ATOM	1573	HG11	ILE	P	99	5.011	-27.464	-22.590	0.00	0.00	PROA
1574	ATOM	1574	HG12	ILE	P	99	5.025	-25.786	-22.105	0.00	0.00	PROA
1575	ATOM	1575	CD	ILE	P	99	6.975	-26.702	-22.538	0.00	0.00	PROA
1576	ATOM	1576	HD1	ILE	P	99	7.220	-27.003	-21.497	0.00	0.00	PROA
1577	ATOM	1577	HD2	ILE	P	99	7.517	-25.761	-22.771	0.00	0.00	PROA
1578	ATOM	1578	HD3	ILE	P	99	7.367	-27.537	-23.158	0.00	0.00	PROA
1579	ATOM	1579	C	ILE	P	99	4.178	-27.941	-25.192	0.00	0.00	PROA
1580	ATOM	1580	O	ILE	P	99	3.492	-28.706	-24.576	0.00	0.00	PROA
1581	ATOM	1581	N	ASP	P	100	5.053	-28.513	-26.054	0.00	0.00	PROA
1582	ATOM	1582	HN	ASP	P	100	5.569	-27.932	-26.679	0.00	0.00	PROA
1583	ATOM	1583	CA	ASP	P	100	5.107	-29.869	-26.448	0.00	0.00	PROA
1584	ATOM	1584	HA	ASP	P	100	4.514	-30.411	-25.726	0.00	0.00	PROA
1585	ATOM	1585	CB	ASP	P	100	4.724	-30.239	-27.918	0.00	0.00	PROA
1586	ATOM	1586	HB1	ASP	P	100	4.733	-31.295	-28.264	0.00	0.00	PROA
1587	ATOM	1587	HB2	ASP	P	100	5.322	-29.640	-28.638	0.00	0.00	PROA
1588	ATOM	1588	CG	ASP	P	100	3.269	-29.862	-28.073	0.00	0.00	PROA
1589	ATOM	1589	OD1	ASP	P	100	2.390	-30.545	-27.447	0.00	0.00	PROA
1590	ATOM	1590	OD2	ASP	P	100	3.030	-29.057	-29.033	0.00	0.00	PROA
1591	ATOM	1591	C	ASP	P	100	6.456	-30.236	-26.192	0.00	0.00	PROA
1592	ATOM	1592	O	ASP	P	100	7.345	-29.559	-26.668	0.00	0.00	PROA
1593	ATOM	1593	N	HSD	P	101	6.683	-31.301	-25.385	0.00	0.00	PROA
1594	ATOM	1594	HN	HSD	P	101	5.956	-31.899	-25.056	0.00	0.00	PROA
1595	ATOM	1595	CA	HSD	P	101	7.975	-31.639	-24.706	0.00	0.00	PROA
1596	ATOM	1596	HA	HSD	P	101	8.714	-31.250	-25.391	0.00	0.00	PROA
1597	ATOM	1597	CB	HSD	P	101	8.099	-30.859	-23.399	0.00	0.00	PROA
1598	ATOM	1598	HB1	HSD	P	101	7.316	-31.114	-22.653	0.00	0.00	PROA
1599	ATOM	1599	HB2	HSD	P	101	7.602	-29.891	-23.625	0.00	0.00	PROA
1600	ATOM	1600	ND1	HSD	P	101	10.340	-31.639	-22.361	0.00	0.00	PROA
1601	ATOM	1601	HD1	HSD	P	101	10.092	-32.607	-22.393	0.00	0.00	PROA
1602	ATOM	1602	CG	HSD	P	101	9.482	-30.724	-22.827	0.00	0.00	PROA
1603	ATOM	1603	CE1	HSD	P	101	11.361	-30.972	-21.810	0.00	0.00	PROA
1604	ATOM	1604	HE1	HSD	P	101	12.150	-31.513	-21.288	0.00	0.00	PROA
1605	ATOM	1605	NE2	HSD	P	101	11.249	-29.701	-21.823	0.00	0.00	PROA
1606	ATOM	1606	CD2	HSD	P	101	10.082	-29.543	-22.521	0.00	0.00	PROA

1607	ATOM	1607	HD2	HSD	P	101	9.627	-28.570	-22.658	0.00	0.00	PROA
1608	ATOM	1608	C	HSD	P	101	8.123	-33.093	-24.563	0.00	0.00	PROA
1609	ATOM	1609	O	HSD	P	101	7.260	-33.860	-24.067	0.00	0.00	PROA
1610	ATOM	1610	N	GLN	P	102	9.293	-33.606	-24.951	0.00	0.00	PROA
1611	ATOM	1611	HN	GLN	P	102	9.941	-33.108	-25.522	0.00	0.00	PROA
1612	ATOM	1612	CA	GLN	P	102	9.568	-34.999	-24.751	0.00	0.00	PROA
1613	ATOM	1613	HA	GLN	P	102	8.680	-35.501	-25.107	0.00	0.00	PROA
1614	ATOM	1614	CB	GLN	P	102	10.863	-35.429	-25.565	0.00	0.00	PROA
1615	ATOM	1615	HB1	GLN	P	102	11.014	-36.501	-25.314	0.00	0.00	PROA
1616	ATOM	1616	HB2	GLN	P	102	11.756	-34.848	-25.249	0.00	0.00	PROA
1617	ATOM	1617	CG	GLN	P	102	10.837	-35.202	-27.045	0.00	0.00	PROA
1618	ATOM	1618	HG1	GLN	P	102	11.639	-35.811	-27.514	0.00	0.00	PROA
1619	ATOM	1619	HG2	GLN	P	102	10.972	-34.152	-27.384	0.00	0.00	PROA
1620	ATOM	1620	CD	GLN	P	102	9.510	-35.577	-27.798	0.00	0.00	PROA
1621	ATOM	1621	OE1	GLN	P	102	8.684	-34.697	-28.128	0.00	0.00	PROA
1622	ATOM	1622	NE2	GLN	P	102	9.336	-36.838	-28.151	0.00	0.00	PROA
1623	ATOM	1623	HE21	GLN	P	102	8.476	-37.013	-28.630	0.00	0.00	PROA
1624	ATOM	1624	HE22	GLN	P	102	10.023	-37.531	-27.932	0.00	0.00	PROA
1625	ATOM	1625	C	GLN	P	102	9.633	-35.306	-23.207	0.00	0.00	PROA
1626	ATOM	1626	O	GLN	P	102	10.148	-34.523	-22.445	0.00	0.00	PROA
1627	ATOM	1627	N	GLY	P	103	8.992	-36.448	-22.785	0.00	0.00	PROA
1628	ATOM	1628	HN	GLY	P	103	8.633	-37.108	-23.440	0.00	0.00	PROA
1629	ATOM	1629	CA	GLY	P	103	8.770	-36.738	-21.398	0.00	0.00	PROA
1630	ATOM	1630	HA1	GLY	P	103	9.681	-36.836	-20.827	0.00	0.00	PROA
1631	ATOM	1631	HA2	GLY	P	103	8.085	-37.558	-21.242	0.00	0.00	PROA
1632	ATOM	1632	C	GLY	P	103	8.116	-35.749	-20.451	0.00	0.00	PROA
1633	ATOM	1633	O	GLY	P	103	8.090	-34.520	-20.653	0.00	0.00	PROA
1634	ATOM	1634	N	LYS	P	104	7.529	-36.238	-19.293	0.00	0.00	PROA
1635	ATOM	1635	HN	LYS	P	104	7.611	-37.194	-19.021	0.00	0.00	PROA
1636	ATOM	1636	CA	LYS	P	104	6.912	-35.417	-18.342	0.00	0.00	PROA
1637	ATOM	1637	HA	LYS	P	104	6.116	-34.943	-18.897	0.00	0.00	PROA
1638	ATOM	1638	CB	LYS	P	104	6.334	-36.251	-17.055	0.00	0.00	PROA
1639	ATOM	1639	HB1	LYS	P	104	5.837	-35.540	-16.361	0.00	0.00	PROA
1640	ATOM	1640	HB2	LYS	P	104	7.120	-36.873	-16.576	0.00	0.00	PROA
1641	ATOM	1641	CG	LYS	P	104	5.385	-37.413	-17.495	0.00	0.00	PROA
1642	ATOM	1642	HG1	LYS	P	104	5.193	-38.041	-16.600	0.00	0.00	PROA
1643	ATOM	1643	HG2	LYS	P	104	5.810	-38.064	-18.288	0.00	0.00	PROA
1644	ATOM	1644	CD	LYS	P	104	4.100	-36.884	-18.089	0.00	0.00	PROA
1645	ATOM	1645	HD1	LYS	P	104	4.345	-36.056	-18.787	0.00	0.00	PROA
1646	ATOM	1646	HD2	LYS	P	104	3.452	-36.431	-17.309	0.00	0.00	PROA
1647	ATOM	1647	CE	LYS	P	104	3.252	-37.986	-18.827	0.00	0.00	PROA
1648	ATOM	1648	HE1	LYS	P	104	3.252	-38.917	-18.221	0.00	0.00	PROA
1649	ATOM	1649	HE2	LYS	P	104	3.640	-38.184	-19.849	0.00	0.00	PROA
1650	ATOM	1650	NZ	LYS	P	104	1.864	-37.581	-18.979	0.00	0.00	PROA
1651	ATOM	1651	HZ1	LYS	P	104	1.586	-37.201	-18.052	0.00	0.00	PROA
1652	ATOM	1652	HZ2	LYS	P	104	1.324	-38.436	-19.219	0.00	0.00	PROA
1653	ATOM	1653	HZ3	LYS	P	104	1.763	-36.807	-19.666	0.00	0.00	PROA
1654	ATOM	1654	C	LYS	P	104	7.803	-34.211	-17.839	0.00	0.00	PROA
1655	ATOM	1655	O	LYS	P	104	8.973	-34.199	-17.926	0.00	0.00	PROA
1656	ATOM	1656	N	LEU	P	105	7.090	-33.119	-17.353	0.00	0.00	PROA
1657	ATOM	1657	HN	LEU	P	105	6.101	-33.221	-17.419	0.00	0.00	PROA
1658	ATOM	1658	CA	LEU	P	105	7.576	-31.866	-16.897	0.00	0.00	PROA
1659	ATOM	1659	HA	LEU	P	105	8.653	-31.779	-16.891	0.00	0.00	PROA
1660	ATOM	1660	CB	LEU	P	105	6.877	-30.737	-17.713	0.00	0.00	PROA
1661	ATOM	1661	HB1	LEU	P	105	6.880	-29.786	-17.137	0.00	0.00	PROA
1662	ATOM	1662	HB2	LEU	P	105	5.829	-31.003	-17.968	0.00	0.00	PROA
1663	ATOM	1663	CG	LEU	P	105	7.516	-30.569	-19.084	0.00	0.00	PROA
1664	ATOM	1664	HG	LEU	P	105	7.746	-31.564	-19.522	0.00	0.00	PROA
1665	ATOM	1665	CD1	LEU	P	105	6.666	-29.790	-20.038	0.00	0.00	PROA
1666	ATOM	1666	HD11	LEU	P	105	7.182	-29.611	-21.006	0.00	0.00	PROA
1667	ATOM	1667	HD12	LEU	P	105	6.362	-28.781	-19.687	0.00	0.00	PROA
1668	ATOM	1668	HD13	LEU	P	105	5.779	-30.397	-20.320	0.00	0.00	PROA
1669	ATOM	1669	CD2	LEU	P	105	8.877	-29.786	-19.066	0.00	0.00	PROA
1670	ATOM	1670	HD21	LEU	P	105	9.607	-30.446	-18.553	0.00	0.00	PROA
1671	ATOM	1671	HD22	LEU	P	105	8.699	-28.770	-18.654	0.00	0.00	PROA
1672	ATOM	1672	HD23	LEU	P	105	9.167	-29.554	-20.113	0.00	0.00	PROA
1673	ATOM	1673	C	LEU	P	105	7.212	-31.618	-15.398	0.00	0.00	PROA
1674	ATOM	1674	O	LEU	P	105	6.338	-32.313	-14.834	0.00	0.00	PROA
1675	ATOM	1675	N	PRO	P	106	7.870	-30.680	-14.668	0.00	0.00	PROA
1676	ATOM	1676	CD	PRO	P	106	8.907	-29.876	-15.264	0.00	0.00	PROA
1677	ATOM	1677	HD1	PRO	P	106	8.619	-29.172	-16.074	0.00	0.00	PROA
1678	ATOM	1678	HD2	PRO	P	106	9.748	-30.415	-15.750	0.00	0.00	PROA
1679	ATOM	1679	CA	PRO	P	106	7.960	-30.630	-13.201	0.00	0.00	PROA

1680	ATOM	1680	HA	PRO	P	106	7.972	-31.658	-12.870	0.00	0.00	PROA
1681	ATOM	1681	CB	PRO	P	106	9.290	-29.927	-12.958	0.00	0.00	PROA
1682	ATOM	1682	HB1	PRO	P	106	10.060	-30.726	-13.012	0.00	0.00	PROA
1683	ATOM	1683	HB2	PRO	P	106	9.388	-29.374	-11.999	0.00	0.00	PROA
1684	ATOM	1684	CG	PRO	P	106	9.583	-29.076	-14.195	0.00	0.00	PROA
1685	ATOM	1685	HG1	PRO	P	106	9.208	-28.031	-14.164	0.00	0.00	PROA
1686	ATOM	1686	HG2	PRO	P	106	10.679	-28.906	-14.254	0.00	0.00	PROA
1687	ATOM	1687	C	PRO	P	106	6.830	-29.916	-12.595	0.00	0.00	PROA
1688	ATOM	1688	O	PRO	P	106	7.030	-28.896	-11.978	0.00	0.00	PROA
1689	ATOM	1689	N	VAL	P	107	5.573	-30.421	-12.764	0.00	0.00	PROA
1690	ATOM	1690	HN	VAL	P	107	5.581	-31.289	-13.254	0.00	0.00	PROA
1691	ATOM	1691	CA	VAL	P	107	4.373	-29.832	-12.285	0.00	0.00	PROA
1692	ATOM	1692	HA	VAL	P	107	4.208	-29.093	-13.055	0.00	0.00	PROA
1693	ATOM	1693	CB	VAL	P	107	3.178	-30.794	-12.412	0.00	0.00	PROA
1694	ATOM	1694	HB	VAL	P	107	3.026	-31.069	-13.478	0.00	0.00	PROA
1695	ATOM	1695	CG1	VAL	P	107	3.516	-32.034	-11.650	0.00	0.00	PROA
1696	ATOM	1696	HG11	VAL	P	107	3.613	-31.811	-10.566	0.00	0.00	PROA
1697	ATOM	1697	HG12	VAL	P	107	4.380	-32.660	-11.959	0.00	0.00	PROA
1698	ATOM	1698	HG13	VAL	P	107	2.595	-32.652	-11.718	0.00	0.00	PROA
1699	ATOM	1699	CG2	VAL	P	107	1.789	-30.278	-12.004	0.00	0.00	PROA
1700	ATOM	1700	HG21	VAL	P	107	1.421	-29.375	-12.537	0.00	0.00	PROA
1701	ATOM	1701	HG22	VAL	P	107	1.761	-30.044	-10.919	0.00	0.00	PROA
1702	ATOM	1702	HG23	VAL	P	107	1.022	-31.067	-12.157	0.00	0.00	PROA
1703	ATOM	1703	C	VAL	P	107	4.342	-29.154	-10.874	0.00	0.00	PROA
1704	ATOM	1704	O	VAL	P	107	4.562	-29.814	-9.886	0.00	0.00	PROA
1705	ATOM	1705	N	LEU	P	108	4.005	-27.832	-10.818	0.00	0.00	PROA
1706	ATOM	1706	HN	LEU	P	108	3.854	-27.350	-11.678	0.00	0.00	PROA
1707	ATOM	1707	CA	LEU	P	108	3.779	-27.160	-9.500	0.00	0.00	PROA
1708	ATOM	1708	HA	LEU	P	108	4.597	-27.556	-8.916	0.00	0.00	PROA
1709	ATOM	1709	CB	LEU	P	108	3.876	-25.673	-9.474	0.00	0.00	PROA
1710	ATOM	1710	HB1	LEU	P	108	3.909	-25.270	-8.439	0.00	0.00	PROA
1711	ATOM	1711	HB2	LEU	P	108	2.960	-25.205	-9.894	0.00	0.00	PROA
1712	ATOM	1712	CG	LEU	P	108	5.196	-25.190	-10.094	0.00	0.00	PROA
1713	ATOM	1713	HG	LEU	P	108	5.225	-25.370	-11.190	0.00	0.00	PROA
1714	ATOM	1714	CD1	LEU	P	108	5.048	-23.699	-10.005	0.00	0.00	PROA
1715	ATOM	1715	HD11	LEU	P	108	5.886	-23.113	-10.441	0.00	0.00	PROA
1716	ATOM	1716	HD12	LEU	P	108	4.931	-23.275	-8.985	0.00	0.00	PROA
1717	ATOM	1717	HD13	LEU	P	108	4.043	-23.507	-10.437	0.00	0.00	PROA
1718	ATOM	1718	CD2	LEU	P	108	6.401	-25.595	-9.243	0.00	0.00	PROA
1719	ATOM	1719	HD21	LEU	P	108	6.563	-26.671	-9.470	0.00	0.00	PROA
1720	ATOM	1720	HD22	LEU	P	108	6.294	-25.504	-8.141	0.00	0.00	PROA
1721	ATOM	1721	HD23	LEU	P	108	7.322	-25.093	-9.609	0.00	0.00	PROA
1722	ATOM	1722	C	LEU	P	108	2.512	-27.638	-8.742	0.00	0.00	PROA
1723	ATOM	1723	O	LEU	P	108	1.494	-28.014	-9.431	0.00	0.00	PROA
1724	ATOM	1724	N	LEU	P	109	2.558	-27.731	-7.430	0.00	0.00	PROA
1725	ATOM	1725	HN	LEU	P	109	3.367	-27.362	-6.980	0.00	0.00	PROA
1726	ATOM	1726	CA	LEU	P	109	1.518	-28.403	-6.716	0.00	0.00	PROA
1727	ATOM	1727	HA	LEU	P	109	0.879	-28.996	-7.353	0.00	0.00	PROA
1728	ATOM	1728	CB	LEU	P	109	1.938	-29.421	-5.592	0.00	0.00	PROA
1729	ATOM	1729	HB1	LEU	P	109	2.350	-29.031	-4.636	0.00	0.00	PROA
1730	ATOM	1730	HB2	LEU	P	109	2.709	-30.080	-6.046	0.00	0.00	PROA
1731	ATOM	1731	CG	LEU	P	109	0.754	-30.399	-5.205	0.00	0.00	PROA
1732	ATOM	1732	HG	LEU	P	109	-0.099	-30.322	-5.912	0.00	0.00	PROA
1733	ATOM	1733	CD1	LEU	P	109	1.095	-31.894	-5.207	0.00	0.00	PROA
1734	ATOM	1734	HD11	LEU	P	109	0.348	-32.448	-4.601	0.00	0.00	PROA
1735	ATOM	1735	HD12	LEU	P	109	2.054	-32.102	-4.687	0.00	0.00	PROA
1736	ATOM	1736	HD13	LEU	P	109	1.232	-32.249	-6.251	0.00	0.00	PROA
1737	ATOM	1737	CD2	LEU	P	109	0.266	-29.940	-3.814	0.00	0.00	PROA
1738	ATOM	1738	HD21	LEU	P	109	1.124	-29.945	-3.109	0.00	0.00	PROA
1739	ATOM	1739	HD22	LEU	P	109	-0.578	-30.550	-3.427	0.00	0.00	PROA
1740	ATOM	1740	HD23	LEU	P	109	-0.119	-28.901	-3.894	0.00	0.00	PROA
1741	ATOM	1741	C	LEU	P	109	0.664	-27.311	-6.209	0.00	0.00	PROA
1742	ATOM	1742	O	LEU	P	109	1.099	-26.299	-5.647	0.00	0.00	PROA
1743	ATOM	1743	N	LEU	P	110	-0.674	-27.387	-6.619	0.00	0.00	PROA
1744	ATOM	1744	HN	LEU	P	110	-1.072	-28.225	-6.985	0.00	0.00	PROA
1745	ATOM	1745	CA	LEU	P	110	-1.620	-26.382	-6.156	0.00	0.00	PROA
1746	ATOM	1746	HA	LEU	P	110	-1.152	-25.409	-6.160	0.00	0.00	PROA
1747	ATOM	1747	CB	LEU	P	110	-2.883	-26.406	-7.046	0.00	0.00	PROA
1748	ATOM	1748	HB1	LEU	P	110	-3.663	-25.679	-6.736	0.00	0.00	PROA
1749	ATOM	1749	HB2	LEU	P	110	-3.358	-27.403	-6.933	0.00	0.00	PROA
1750	ATOM	1750	CG	LEU	P	110	-2.532	-26.218	-8.564	0.00	0.00	PROA
1751	ATOM	1751	HG	LEU	P	110	-1.778	-26.960	-8.904	0.00	0.00	PROA
1752	ATOM	1752	CD1	LEU	P	110	-3.853	-26.287	-9.340	0.00	0.00	PROA

1753	ATOM	1753	HD11	LEU	P	110	-4.516	-25.523	-8.880	0.00	0.00	PROA
1754	ATOM	1754	HD12	LEU	P	110	-4.360	-27.231	-9.047	0.00	0.00	PROA
1755	ATOM	1755	HD13	LEU	P	110	-3.739	-26.153	-10.437	0.00	0.00	PROA
1756	ATOM	1756	CD2	LEU	P	110	-1.960	-24.759	-8.821	0.00	0.00	PROA
1757	ATOM	1757	HD21	LEU	P	110	-0.863	-24.666	-8.672	0.00	0.00	PROA
1758	ATOM	1758	HD22	LEU	P	110	-2.600	-24.058	-8.243	0.00	0.00	PROA
1759	ATOM	1759	HD23	LEU	P	110	-1.990	-24.705	-9.930	0.00	0.00	PROA
1760	ATOM	1760	C	LEU	P	110	-2.140	-26.583	-4.779	0.00	0.00	PROA
1761	ATOM	1761	O	LEU	P	110	-2.812	-27.501	-4.454	0.00	0.00	PROA
1762	ATOM	1762	N	GLY	P	111	-1.823	-25.639	-3.877	0.00	0.00	PROA
1763	ATOM	1763	HN	GLY	P	111	-1.335	-24.835	-4.208	0.00	0.00	PROA
1764	ATOM	1764	CA	GLY	P	111	-2.158	-25.662	-2.469	0.00	0.00	PROA
1765	ATOM	1765	HA1	GLY	P	111	-1.469	-24.971	-2.005	0.00	0.00	PROA
1766	ATOM	1766	HA2	GLY	P	111	-2.015	-26.704	-2.221	0.00	0.00	PROA
1767	ATOM	1767	C	GLY	P	111	-3.470	-25.219	-2.223	0.00	0.00	PROA
1768	ATOM	1768	O	GLY	P	111	-4.139	-24.706	-3.124	0.00	0.00	PROA
1769	ATOM	1769	N	ARG	P	112	-3.958	-25.373	-1.004	0.00	0.00	PROA
1770	ATOM	1770	HN	ARG	P	112	-3.343	-25.526	-0.235	0.00	0.00	PROA
1771	ATOM	1771	CA	ARG	P	112	-5.337	-25.039	-0.679	0.00	0.00	PROA
1772	ATOM	1772	HA	ARG	P	112	-5.954	-25.195	-1.551	0.00	0.00	PROA
1773	ATOM	1773	CB	ARG	P	112	-5.972	-26.024	0.317	0.00	0.00	PROA
1774	ATOM	1774	HB1	ARG	P	112	-6.975	-25.688	0.658	0.00	0.00	PROA
1775	ATOM	1775	HB2	ARG	P	112	-5.340	-26.061	1.230	0.00	0.00	PROA
1776	ATOM	1776	CG	ARG	P	112	-6.275	-27.461	-0.284	0.00	0.00	PROA
1777	ATOM	1777	HG1	ARG	P	112	-6.830	-27.338	-1.238	0.00	0.00	PROA
1778	ATOM	1778	HG2	ARG	P	112	-7.007	-27.929	0.409	0.00	0.00	PROA
1779	ATOM	1779	CD	ARG	P	112	-5.004	-28.298	-0.601	0.00	0.00	PROA
1780	ATOM	1780	HD1	ARG	P	112	-4.463	-27.804	-1.436	0.00	0.00	PROA
1781	ATOM	1781	HD2	ARG	P	112	-5.324	-29.323	-0.884	0.00	0.00	PROA
1782	ATOM	1782	NE	ARG	P	112	-4.077	-28.462	0.616	0.00	0.00	PROA
1783	ATOM	1783	HE	ARG	P	112	-4.416	-28.110	1.489	0.00	0.00	PROA
1784	ATOM	1784	CZ	ARG	P	112	-2.736	-28.368	0.571	0.00	0.00	PROA
1785	ATOM	1785	NH1	ARG	P	112	-2.043	-28.809	-0.477	0.00	0.00	PROA
1786	ATOM	1786	HH11	ARG	P	112	-2.601	-29.152	-1.233	0.00	0.00	PROA
1787	ATOM	1787	HH12	ARG	P	112	-1.055	-28.658	-0.471	0.00	0.00	PROA
1788	ATOM	1788	NH2	ARG	P	112	-2.046	-27.916	1.587	0.00	0.00	PROA
1789	ATOM	1789	HH21	ARG	P	112	-2.509	-27.983	2.471	0.00	0.00	PROA
1790	ATOM	1790	HH22	ARG	P	112	-1.063	-27.759	1.489	0.00	0.00	PROA
1791	ATOM	1791	C	ARG	P	112	-5.412	-23.621	-0.207	0.00	0.00	PROA
1792	ATOM	1792	O	ARG	P	112	-4.998	-23.254	0.886	0.00	0.00	PROA
1793	ATOM	1793	N	SER	P	113	-5.907	-22.717	-1.070	0.00	0.00	PROA
1794	ATOM	1794	HN	SER	P	113	-6.316	-22.878	-1.965	0.00	0.00	PROA
1795	ATOM	1795	CA	SER	P	113	-5.939	-21.312	-0.795	0.00	0.00	PROA
1796	ATOM	1796	HA	SER	P	113	-5.117	-20.981	-0.177	0.00	0.00	PROA
1797	ATOM	1797	CB	SER	P	113	-5.874	-20.556	-2.075	0.00	0.00	PROA
1798	ATOM	1798	HB1	SER	P	113	-4.968	-20.818	-2.662	0.00	0.00	PROA
1799	ATOM	1799	HB2	SER	P	113	-5.799	-19.448	-2.040	0.00	0.00	PROA
1800	ATOM	1800	OG	SER	P	113	-7.012	-20.797	-2.948	0.00	0.00	PROA
1801	ATOM	1801	HG1	SER	P	113	-7.050	-21.748	-3.074	0.00	0.00	PROA
1802	ATOM	1802	C	SER	P	113	-7.289	-20.957	-0.100	0.00	0.00	PROA
1803	ATOM	1803	O	SER	P	113	-7.503	-19.820	0.255	0.00	0.00	PROA
1804	ATOM	1804	N	SER	P	114	-8.198	-21.934	0.161	0.00	0.00	PROA
1805	ATOM	1805	HN	SER	P	114	-8.191	-22.759	-0.399	0.00	0.00	PROA
1806	ATOM	1806	CA	SER	P	114	-9.291	-21.631	1.052	0.00	0.00	PROA
1807	ATOM	1807	HA	SER	P	114	-9.544	-20.587	0.941	0.00	0.00	PROA
1808	ATOM	1808	CB	SER	P	114	-10.573	-22.372	0.726	0.00	0.00	PROA
1809	ATOM	1809	HB1	SER	P	114	-11.053	-21.923	-0.170	0.00	0.00	PROA
1810	ATOM	1810	HB2	SER	P	114	-11.371	-22.248	1.490	0.00	0.00	PROA
1811	ATOM	1811	OG	SER	P	114	-10.360	-23.786	0.689	0.00	0.00	PROA
1812	ATOM	1812	HG1	SER	P	114	-9.632	-24.071	0.132	0.00	0.00	PROA
1813	ATOM	1813	C	SER	P	114	-8.990	-21.841	2.508	0.00	0.00	PROA
1814	ATOM	1814	O	SER	P	114	-9.677	-21.261	3.292	0.00	0.00	PROA
1815	ATOM	1815	N	GLU	P	115	-8.093	-22.742	2.810	0.00	0.00	PROA
1816	ATOM	1816	HN	GLU	P	115	-7.791	-23.470	2.200	0.00	0.00	PROA
1817	ATOM	1817	CA	GLU	P	115	-7.694	-22.948	4.162	0.00	0.00	PROA
1818	ATOM	1818	HA	GLU	P	115	-8.538	-22.896	4.834	0.00	0.00	PROA
1819	ATOM	1819	CB	GLU	P	115	-7.117	-24.345	4.210	0.00	0.00	PROA
1820	ATOM	1820	HB1	GLU	P	115	-6.580	-24.470	5.174	0.00	0.00	PROA
1821	ATOM	1821	HB2	GLU	P	115	-6.308	-24.531	3.471	0.00	0.00	PROA
1822	ATOM	1822	CG	GLU	P	115	-8.257	-25.388	4.215	0.00	0.00	PROA
1823	ATOM	1823	HG1	GLU	P	115	-8.883	-25.413	3.298	0.00	0.00	PROA
1824	ATOM	1824	HG2	GLU	P	115	-8.931	-25.246	5.087	0.00	0.00	PROA
1825	ATOM	1825	CD	GLU	P	115	-7.657	-26.737	4.336	0.00	0.00	PROA

1826	ATOM	1826	OE1	GLU	P	115	-8.108	-27.549	5.198	0.00	0.00	PROA
1827	ATOM	1827	OE2	GLU	P	115	-6.698	-27.109	3.582	0.00	0.00	PROA
1828	ATOM	1828	C	GLU	P	115	-6.628	-21.888	4.569	0.00	0.00	PROA
1829	ATOM	1829	O	GLU	P	115	-6.339	-21.792	5.763	0.00	0.00	PROA
1830	ATOM	1830	N	LEU	P	116	-6.255	-20.990	3.655	0.00	0.00	PROA
1831	ATOM	1831	HN	LEU	P	116	-6.605	-21.014	2.722	0.00	0.00	PROA
1832	ATOM	1832	CA	LEU	P	116	-5.389	-19.868	3.903	0.00	0.00	PROA
1833	ATOM	1833	HA	LEU	P	116	-4.584	-20.201	4.542	0.00	0.00	PROA
1834	ATOM	1834	CB	LEU	P	116	-4.939	-19.280	2.498	0.00	0.00	PROA
1835	ATOM	1835	HB1	LEU	P	116	-5.852	-19.072	1.902	0.00	0.00	PROA
1836	ATOM	1836	HB2	LEU	P	116	-4.419	-20.083	1.933	0.00	0.00	PROA
1837	ATOM	1837	CG	LEU	P	116	-3.904	-18.114	2.411	0.00	0.00	PROA
1838	ATOM	1838	HG	LEU	P	116	-4.245	-17.203	2.946	0.00	0.00	PROA
1839	ATOM	1839	CD1	LEU	P	116	-2.598	-18.374	3.270	0.00	0.00	PROA
1840	ATOM	1840	HD11	LEU	P	116	-2.027	-17.434	3.113	0.00	0.00	PROA
1841	ATOM	1841	HD12	LEU	P	116	-1.970	-19.196	2.865	0.00	0.00	PROA
1842	ATOM	1842	HD13	LEU	P	116	-2.904	-18.510	4.330	0.00	0.00	PROA
1843	ATOM	1843	CD2	LEU	P	116	-3.498	-17.825	0.967	0.00	0.00	PROA
1844	ATOM	1844	HD21	LEU	P	116	-3.106	-18.825	0.682	0.00	0.00	PROA
1845	ATOM	1845	HD22	LEU	P	116	-2.736	-17.023	1.070	0.00	0.00	PROA
1846	ATOM	1846	HD23	LEU	P	116	-4.317	-17.483	0.300	0.00	0.00	PROA
1847	ATOM	1847	C	LEU	P	116	-6.216	-18.870	4.690	0.00	0.00	PROA
1848	ATOM	1848	O	LEU	P	116	-7.425	-18.730	4.562	0.00	0.00	PROA
1849	ATOM	1849	N	GLN	P	117	-5.543	-18.011	5.556	0.00	0.00	PROA
1850	ATOM	1850	HN	GLN	P	117	-4.552	-18.016	5.661	0.00	0.00	PROA
1851	ATOM	1851	CA	GLN	P	117	-6.221	-17.125	6.526	0.00	0.00	PROA
1852	ATOM	1852	HA	GLN	P	117	-7.055	-16.667	6.017	0.00	0.00	PROA
1853	ATOM	1853	CB	GLN	P	117	-6.384	-17.804	7.926	0.00	0.00	PROA
1854	ATOM	1854	HB1	GLN	P	117	-6.540	-17.091	8.764	0.00	0.00	PROA
1855	ATOM	1855	HB2	GLN	P	117	-5.400	-18.227	8.220	0.00	0.00	PROA
1856	ATOM	1856	CG	GLN	P	117	-7.511	-18.891	8.187	0.00	0.00	PROA
1857	ATOM	1857	HG1	GLN	P	117	-7.681	-19.122	9.260	0.00	0.00	PROA
1858	ATOM	1858	HG2	GLN	P	117	-7.261	-19.917	7.842	0.00	0.00	PROA
1859	ATOM	1859	CD	GLN	P	117	-8.924	-18.535	7.668	0.00	0.00	PROA
1860	ATOM	1860	OE1	GLN	P	117	-9.740	-19.327	7.110	0.00	0.00	PROA
1861	ATOM	1861	NE2	GLN	P	117	-9.301	-17.245	7.811	0.00	0.00	PROA
1862	ATOM	1862	HE21	GLN	P	117	-8.719	-16.652	8.367	0.00	0.00	PROA
1863	ATOM	1863	HE22	GLN	P	117	-10.279	-17.055	7.729	0.00	0.00	PROA
1864	ATOM	1864	C	GLN	P	117	-5.183	-15.976	6.753	0.00	0.00	PROA
1865	ATOM	1865	O	GLN	P	117	-4.003	-16.276	6.597	0.00	0.00	PROA
1866	ATOM	1866	N	PRO	P	118	-5.559	-14.690	7.049	0.00	0.00	PROA
1867	ATOM	1867	CD	PRO	P	118	-6.888	-14.169	6.801	0.00	0.00	PROA
1868	ATOM	1868	HD1	PRO	P	118	-7.618	-14.686	7.459	0.00	0.00	PROA
1869	ATOM	1869	HD2	PRO	P	118	-7.103	-14.204	5.711	0.00	0.00	PROA
1870	ATOM	1870	CA	PRO	P	118	-4.645	-13.676	7.482	0.00	0.00	PROA
1871	ATOM	1871	HA	PRO	P	118	-4.137	-13.449	6.557	0.00	0.00	PROA
1872	ATOM	1872	CB	PRO	P	118	-5.512	-12.546	8.072	0.00	0.00	PROA
1873	ATOM	1873	HB1	PRO	P	118	-5.064	-11.542	7.913	0.00	0.00	PROA
1874	ATOM	1874	HB2	PRO	P	118	-5.837	-12.770	9.110	0.00	0.00	PROA
1875	ATOM	1875	CG	PRO	P	118	-6.776	-12.651	7.190	0.00	0.00	PROA
1876	ATOM	1876	HG1	PRO	P	118	-7.606	-12.252	7.811	0.00	0.00	PROA
1877	ATOM	1877	HG2	PRO	P	118	-6.788	-12.055	6.252	0.00	0.00	PROA
1878	ATOM	1878	C	PRO	P	118	-3.446	-14.035	8.429	0.00	0.00	PROA
1879	ATOM	1879	O	PRO	P	118	-3.658	-14.813	9.391	0.00	0.00	PROA
1880	ATOM	1880	N	GLY	P	119	-2.255	-13.428	8.259	0.00	0.00	PROA
1881	ATOM	1881	HN	GLY	P	119	-2.166	-12.869	7.439	0.00	0.00	PROA
1882	ATOM	1882	CA	GLY	P	119	-1.160	-13.514	9.196	0.00	0.00	PROA
1883	ATOM	1883	HA1	GLY	P	119	-1.521	-13.628	10.208	0.00	0.00	PROA
1884	ATOM	1884	HA2	GLY	P	119	-0.608	-12.606	8.999	0.00	0.00	PROA
1885	ATOM	1885	C	GLY	P	119	-0.264	-14.657	8.874	0.00	0.00	PROA
1886	ATOM	1886	O	GLY	P	119	0.299	-15.243	9.750	0.00	0.00	PROA
1887	ATOM	1887	N	GLU	P	120	-0.089	-14.914	7.540	0.00	0.00	PROA
1888	ATOM	1888	HN	GLU	P	120	-0.700	-14.410	6.934	0.00	0.00	PROA
1889	ATOM	1889	CA	GLU	P	120	0.579	-16.002	6.943	0.00	0.00	PROA
1890	ATOM	1890	HA	GLU	P	120	1.174	-16.573	7.640	0.00	0.00	PROA
1891	ATOM	1891	CB	GLU	P	120	-0.342	-17.018	6.308	0.00	0.00	PROA
1892	ATOM	1892	HB1	GLU	P	120	-0.970	-16.498	5.554	0.00	0.00	PROA
1893	ATOM	1893	HB2	GLU	P	120	-1.055	-17.339	7.098	0.00	0.00	PROA
1894	ATOM	1894	CG	GLU	P	120	0.301	-18.311	5.761	0.00	0.00	PROA
1895	ATOM	1895	HG1	GLU	P	120	0.894	-18.135	4.838	0.00	0.00	PROA
1896	ATOM	1896	HG2	GLU	P	120	-0.569	-18.995	5.655	0.00	0.00	PROA
1897	ATOM	1897	CD	GLU	P	120	1.124	-18.986	6.863	0.00	0.00	PROA
1898	ATOM	1898	OE1	GLU	P	120	0.647	-19.279	7.975	0.00	0.00	PROA

1899	ATOM	1899	OE2	GLU	P	120	2.356	-19.062	6.683	0.00	0.00	PROA
1900	ATOM	1900	C	GLU	P	120	1.505	-15.403	5.959	0.00	0.00	PROA
1901	ATOM	1901	O	GLU	P	120	0.996	-14.877	4.990	0.00	0.00	PROA
1902	ATOM	1902	N	PHE	P	121	2.807	-15.585	6.125	0.00	0.00	PROA
1903	ATOM	1903	HN	PHE	P	121	3.039	-16.074	6.962	0.00	0.00	PROA
1904	ATOM	1904	CA	PHE	P	121	3.905	-14.989	5.357	0.00	0.00	PROA
1905	ATOM	1905	HA	PHE	P	121	3.493	-14.103	4.897	0.00	0.00	PROA
1906	ATOM	1906	CB	PHE	P	121	5.030	-14.539	6.381	0.00	0.00	PROA
1907	ATOM	1907	HB1	PHE	P	121	5.466	-15.397	6.936	0.00	0.00	PROA
1908	ATOM	1908	HB2	PHE	P	121	4.487	-13.891	7.102	0.00	0.00	PROA
1909	ATOM	1909	CG	PHE	P	121	6.102	-13.769	5.722	0.00	0.00	PROA
1910	ATOM	1910	CD1	PHE	P	121	7.370	-14.388	5.543	0.00	0.00	PROA
1911	ATOM	1911	HD1	PHE	P	121	7.456	-15.457	5.673	0.00	0.00	PROA
1912	ATOM	1912	CE1	PHE	P	121	8.480	-13.640	5.074	0.00	0.00	PROA
1913	ATOM	1913	HE1	PHE	P	121	9.419	-14.144	4.895	0.00	0.00	PROA
1914	ATOM	1914	CZ	PHE	P	121	8.344	-12.219	4.902	0.00	0.00	PROA
1915	ATOM	1915	HZ	PHE	P	121	9.174	-11.698	4.448	0.00	0.00	PROA
1916	ATOM	1916	CD2	PHE	P	121	5.964	-12.345	5.544	0.00	0.00	PROA
1917	ATOM	1917	HD2	PHE	P	121	5.067	-11.837	5.866	0.00	0.00	PROA
1918	ATOM	1918	CE2	PHE	P	121	7.128	-11.620	5.177	0.00	0.00	PROA
1919	ATOM	1919	HE2	PHE	P	121	7.046	-10.576	4.912	0.00	0.00	PROA
1920	ATOM	1920	C	PHE	P	121	4.255	-15.711	4.170	0.00	0.00	PROA
1921	ATOM	1921	O	PHE	P	121	4.535	-16.923	4.242	0.00	0.00	PROA
1922	ATOM	1922	N	VAL	P	122	4.209	-15.064	3.010	0.00	0.00	PROA
1923	ATOM	1923	HN	VAL	P	122	4.065	-14.087	2.875	0.00	0.00	PROA
1924	ATOM	1924	CA	VAL	P	122	4.159	-15.828	1.795	0.00	0.00	PROA
1925	ATOM	1925	HA	VAL	P	122	4.544	-16.835	1.855	0.00	0.00	PROA
1926	ATOM	1926	CB	VAL	P	122	2.803	-15.813	1.176	0.00	0.00	PROA
1927	ATOM	1927	HB	VAL	P	122	2.862	-16.246	0.155	0.00	0.00	PROA
1928	ATOM	1928	CG1	VAL	P	122	1.799	-16.692	1.898	0.00	0.00	PROA
1929	ATOM	1929	HG11	VAL	P	122	2.169	-17.735	1.799	0.00	0.00	PROA
1930	ATOM	1930	HG12	VAL	P	122	0.774	-16.738	1.473	0.00	0.00	PROA
1931	ATOM	1931	HG13	VAL	P	122	1.765	-16.405	2.971	0.00	0.00	PROA
1932	ATOM	1932	CG2	VAL	P	122	2.334	-14.345	1.031	0.00	0.00	PROA
1933	ATOM	1933	HG21	VAL	P	122	1.415	-14.321	0.407	0.00	0.00	PROA
1934	ATOM	1934	HG22	VAL	P	122	3.082	-13.831	0.390	0.00	0.00	PROA
1935	ATOM	1935	HG23	VAL	P	122	2.091	-13.808	1.973	0.00	0.00	PROA
1936	ATOM	1936	C	VAL	P	122	5.059	-15.167	0.730	0.00	0.00	PROA
1937	ATOM	1937	O	VAL	P	122	5.567	-14.092	1.017	0.00	0.00	PROA
1938	ATOM	1938	N	VAL	P	123	5.406	-15.924	-0.275	0.00	0.00	PROA
1939	ATOM	1939	HN	VAL	P	123	4.994	-16.813	-0.457	0.00	0.00	PROA
1940	ATOM	1940	CA	VAL	P	123	6.430	-15.580	-1.235	0.00	0.00	PROA
1941	ATOM	1941	HA	VAL	P	123	6.900	-14.618	-1.095	0.00	0.00	PROA
1942	ATOM	1942	CB	VAL	P	123	7.543	-16.647	-1.282	0.00	0.00	PROA
1943	ATOM	1943	HB	VAL	P	123	7.141	-17.646	-1.554	0.00	0.00	PROA
1944	ATOM	1944	CG1	VAL	P	123	8.717	-16.305	-2.227	0.00	0.00	PROA
1945	ATOM	1945	HG11	VAL	P	123	8.451	-16.320	-3.305	0.00	0.00	PROA
1946	ATOM	1946	HG12	VAL	P	123	9.641	-16.895	-2.049	0.00	0.00	PROA
1947	ATOM	1947	HG13	VAL	P	123	9.040	-15.251	-2.092	0.00	0.00	PROA
1948	ATOM	1948	CG2	VAL	P	123	8.146	-16.731	0.177	0.00	0.00	PROA
1949	ATOM	1949	HG21	VAL	P	123	8.443	-15.698	0.459	0.00	0.00	PROA
1950	ATOM	1950	HG22	VAL	P	123	8.896	-17.549	0.218	0.00	0.00	PROA
1951	ATOM	1951	HG23	VAL	P	123	7.327	-17.040	0.861	0.00	0.00	PROA
1952	ATOM	1952	C	VAL	P	123	5.872	-15.505	-2.713	0.00	0.00	PROA
1953	ATOM	1953	O	VAL	P	123	5.443	-16.469	-3.291	0.00	0.00	PROA
1954	ATOM	1954	N	ALA	P	124	5.956	-14.321	-3.365	0.00	0.00	PROA
1955	ATOM	1955	HN	ALA	P	124	6.412	-13.549	-2.929	0.00	0.00	PROA
1956	ATOM	1956	CA	ALA	P	124	5.730	-14.256	-4.817	0.00	0.00	PROA
1957	ATOM	1957	HA	ALA	P	124	5.013	-14.998	-5.135	0.00	0.00	PROA
1958	ATOM	1958	CB	ALA	P	124	4.967	-12.979	-5.153	0.00	0.00	PROA
1959	ATOM	1959	HB1	ALA	P	124	4.582	-12.935	-6.194	0.00	0.00	PROA
1960	ATOM	1960	HB2	ALA	P	124	5.641	-12.101	-5.056	0.00	0.00	PROA
1961	ATOM	1961	HB3	ALA	P	124	4.227	-12.863	-4.332	0.00	0.00	PROA
1962	ATOM	1962	C	ALA	P	124	7.029	-14.375	-5.602	0.00	0.00	PROA
1963	ATOM	1963	O	ALA	P	124	7.932	-13.531	-5.576	0.00	0.00	PROA
1964	ATOM	1964	N	ILE	P	125	7.102	-15.407	-6.437	0.00	0.00	PROA
1965	ATOM	1965	HN	ILE	P	125	6.289	-15.971	-6.558	0.00	0.00	PROA
1966	ATOM	1966	CA	ILE	P	125	8.209	-15.720	-7.249	0.00	0.00	PROA
1967	ATOM	1967	HA	ILE	P	125	9.083	-15.235	-6.840	0.00	0.00	PROA
1968	ATOM	1968	CB	ILE	P	125	8.438	-17.223	-7.390	0.00	0.00	PROA
1969	ATOM	1969	HB	ILE	P	125	7.615	-17.709	-7.956	0.00	0.00	PROA
1970	ATOM	1970	CG2	ILE	P	125	9.661	-17.491	-8.260	0.00	0.00	PROA
1971	ATOM	1971	HG21	ILE	P	125	9.927	-18.556	-8.095	0.00	0.00	PROA

1972	ATOM	1972	HG22	ILE	P	125	10.482	-16.770	-8.056	0.00	0.00	PROA
1973	ATOM	1973	HG23	ILE	P	125	9.416	-17.406	-9.341	0.00	0.00	PROA
1974	ATOM	1974	CG1	ILE	P	125	8.502	-17.863	-5.992	0.00	0.00	PROA
1975	ATOM	1975	HG11	ILE	P	125	8.213	-18.935	-5.994	0.00	0.00	PROA
1976	ATOM	1976	HG12	ILE	P	125	7.832	-17.414	-5.228	0.00	0.00	PROA
1977	ATOM	1977	CD	ILE	P	125	9.999	-17.845	-5.425	0.00	0.00	PROA
1978	ATOM	1978	HD1	ILE	P	125	9.885	-18.401	-4.470	0.00	0.00	PROA
1979	ATOM	1979	HD2	ILE	P	125	10.289	-16.788	-5.244	0.00	0.00	PROA
1980	ATOM	1980	HD3	ILE	P	125	10.810	-18.331	-6.009	0.00	0.00	PROA
1981	ATOM	1981	C	ILE	P	125	7.875	-15.164	-8.732	0.00	0.00	PROA
1982	ATOM	1982	O	ILE	P	125	6.819	-15.507	-9.350	0.00	0.00	PROA
1983	ATOM	1983	N	GLY	P	126	8.734	-14.363	-9.359	0.00	0.00	PROA
1984	ATOM	1984	HN	GLY	P	126	9.521	-14.063	-8.826	0.00	0.00	PROA
1985	ATOM	1985	CA	GLY	P	126	8.677	-14.074	-10.764	0.00	0.00	PROA
1986	ATOM	1986	HA1	GLY	P	126	8.770	-13.022	-10.990	0.00	0.00	PROA
1987	ATOM	1987	HA2	GLY	P	126	7.735	-14.423	-11.162	0.00	0.00	PROA
1988	ATOM	1988	C	GLY	P	126	9.667	-14.899	-11.552	0.00	0.00	PROA
1989	ATOM	1989	O	GLY	P	126	9.479	-15.494	-12.615	0.00	0.00	PROA
1990	ATOM	1990	N	SER	P	127	10.860	-15.015	-10.898	0.00	0.00	PROA
1991	ATOM	1991	HN	SER	P	127	10.937	-14.513	-10.040	0.00	0.00	PROA
1992	ATOM	1992	CA	SER	P	127	11.915	-15.914	-11.336	0.00	0.00	PROA
1993	ATOM	1993	HA	SER	P	127	11.534	-16.783	-11.853	0.00	0.00	PROA
1994	ATOM	1994	CB	SER	P	127	12.920	-15.151	-12.261	0.00	0.00	PROA
1995	ATOM	1995	HB1	SER	P	127	13.221	-14.269	-11.656	0.00	0.00	PROA
1996	ATOM	1996	HB2	SER	P	127	12.409	-14.771	-13.171	0.00	0.00	PROA
1997	ATOM	1997	OG	SER	P	127	14.028	-15.975	-12.686	0.00	0.00	PROA
1998	ATOM	1998	HG1	SER	P	127	13.699	-16.572	-13.362	0.00	0.00	PROA
1999	ATOM	1999	C	SER	P	127	12.767	-16.478	-10.225	0.00	0.00	PROA
2000	ATOM	2000	O	SER	P	127	13.005	-15.675	-9.331	0.00	0.00	PROA
2001	ATOM	2001	N	PRO	P	128	13.088	-17.749	-10.057	0.00	0.00	PROA
2002	ATOM	2002	CD	PRO	P	128	12.591	-18.840	-10.916	0.00	0.00	PROA
2003	ATOM	2003	HD1	PRO	P	128	13.259	-18.974	-11.793	0.00	0.00	PROA
2004	ATOM	2004	HD2	PRO	P	128	11.554	-18.657	-11.273	0.00	0.00	PROA
2005	ATOM	2005	CA	PRO	P	128	13.804	-18.174	-8.919	0.00	0.00	PROA
2006	ATOM	2006	HA	PRO	P	128	13.379	-17.782	-8.006	0.00	0.00	PROA
2007	ATOM	2007	CB	PRO	P	128	13.695	-19.718	-8.977	0.00	0.00	PROA
2008	ATOM	2008	HB1	PRO	P	128	13.377	-20.078	-7.975	0.00	0.00	PROA
2009	ATOM	2009	HB2	PRO	P	128	14.643	-20.175	-9.331	0.00	0.00	PROA
2010	ATOM	2010	CG	PRO	P	128	12.639	-20.082	-10.036	0.00	0.00	PROA
2011	ATOM	2011	HG1	PRO	P	128	12.889	-20.908	-10.736	0.00	0.00	PROA
2012	ATOM	2012	HG2	PRO	P	128	11.671	-20.236	-9.513	0.00	0.00	PROA
2013	ATOM	2013	C	PRO	P	128	15.333	-17.760	-9.070	0.00	0.00	PROA
2014	ATOM	2014	O	PRO	P	128	16.149	-18.103	-8.216	0.00	0.00	PROA
2015	ATOM	2015	N	PHE	P	129	15.661	-17.042	-10.108	0.00	0.00	PROA
2016	ATOM	2016	HN	PHE	P	129	15.088	-16.704	-10.850	0.00	0.00	PROA
2017	ATOM	2017	CA	PHE	P	129	17.020	-16.734	-10.546	0.00	0.00	PROA
2018	ATOM	2018	HA	PHE	P	129	17.749	-17.045	-9.813	0.00	0.00	PROA
2019	ATOM	2019	CB	PHE	P	129	17.193	-17.501	-11.870	0.00	0.00	PROA
2020	ATOM	2020	HB1	PHE	P	129	18.248	-17.458	-12.215	0.00	0.00	PROA
2021	ATOM	2021	HB2	PHE	P	129	16.697	-17.123	-12.789	0.00	0.00	PROA
2022	ATOM	2022	CG	PHE	P	129	16.949	-19.011	-11.844	0.00	0.00	PROA
2023	ATOM	2023	CD1	PHE	P	129	16.029	-19.533	-12.720	0.00	0.00	PROA
2024	ATOM	2024	HD1	PHE	P	129	15.458	-19.071	-13.512	0.00	0.00	PROA
2025	ATOM	2025	CE1	PHE	P	129	15.643	-20.862	-12.469	0.00	0.00	PROA
2026	ATOM	2026	HE1	PHE	P	129	14.832	-21.229	-13.081	0.00	0.00	PROA
2027	ATOM	2027	CZ	PHE	P	129	16.275	-21.635	-11.544	0.00	0.00	PROA
2028	ATOM	2028	HZ	PHE	P	129	16.079	-22.695	-11.480	0.00	0.00	PROA
2029	ATOM	2029	CD2	PHE	P	129	17.599	-19.790	-10.809	0.00	0.00	PROA
2030	ATOM	2030	HD2	PHE	P	129	18.225	-19.256	-10.109	0.00	0.00	PROA
2031	ATOM	2031	CE2	PHE	P	129	17.196	-21.148	-10.648	0.00	0.00	PROA
2032	ATOM	2032	HE2	PHE	P	129	17.588	-21.807	-9.889	0.00	0.00	PROA
2033	ATOM	2033	C	PHE	P	129	17.192	-15.249	-10.685	0.00	0.00	PROA
2034	ATOM	2034	O	PHE	P	129	17.807	-14.591	-9.852	0.00	0.00	PROA
2035	ATOM	2035	N	SER	P	130	16.691	-14.714	-11.719	0.00	0.00	PROA
2036	ATOM	2036	HN	SER	P	130	16.274	-15.173	-12.499	0.00	0.00	PROA
2037	ATOM	2037	CA	SER	P	130	16.889	-13.293	-12.236	0.00	0.00	PROA
2038	ATOM	2038	HA	SER	P	130	17.897	-13.241	-12.619	0.00	0.00	PROA
2039	ATOM	2039	CB	SER	P	130	16.013	-12.986	-13.484	0.00	0.00	PROA
2040	ATOM	2040	HB1	SER	P	130	14.955	-13.125	-13.177	0.00	0.00	PROA
2041	ATOM	2041	HB2	SER	P	130	16.230	-13.780	-14.229	0.00	0.00	PROA
2042	ATOM	2042	OG	SER	P	130	16.166	-11.604	-13.946	0.00	0.00	PROA
2043	ATOM	2043	HG1	SER	P	130	16.435	-11.625	-14.867	0.00	0.00	PROA
2044	ATOM	2044	C	SER	P	130	16.714	-12.218	-11.170	0.00	0.00	PROA

2045	ATOM	2045	O	SER	P	130	15.708	-12.078	-10.519	0.00	0.00	PROA
2046	ATOM	2046	N	LEU	P	131	17.752	-11.276	-11.090	0.00	0.00	PROA
2047	ATOM	2047	HN	LEU	P	131	18.598	-11.477	-11.578	0.00	0.00	PROA
2048	ATOM	2048	CA	LEU	P	131	17.723	-10.081	-10.286	0.00	0.00	PROA
2049	ATOM	2049	HA	LEU	P	131	17.142	-10.239	-9.390	0.00	0.00	PROA
2050	ATOM	2050	CB	LEU	P	131	19.042	-9.761	-9.757	0.00	0.00	PROA
2051	ATOM	2051	HB1	LEU	P	131	18.943	-9.037	-8.920	0.00	0.00	PROA
2052	ATOM	2052	HB2	LEU	P	131	19.807	-9.359	-10.456	0.00	0.00	PROA
2053	ATOM	2053	CG	LEU	P	131	19.799	-10.929	-9.214	0.00	0.00	PROA
2054	ATOM	2054	HG	LEU	P	131	19.888	-11.649	-10.054	0.00	0.00	PROA
2055	ATOM	2055	CD1	LEU	P	131	21.258	-10.428	-8.793	0.00	0.00	PROA
2056	ATOM	2056	HD11	LEU	P	131	21.845	-11.302	-8.440	0.00	0.00	PROA
2057	ATOM	2057	HD12	LEU	P	131	21.197	-9.718	-7.941	0.00	0.00	PROA
2058	ATOM	2058	HD13	LEU	P	131	21.718	-9.869	-9.636	0.00	0.00	PROA
2059	ATOM	2059	CD2	LEU	P	131	19.028	-11.588	-7.964	0.00	0.00	PROA
2060	ATOM	2060	HD21	LEU	P	131	18.881	-10.898	-7.106	0.00	0.00	PROA
2061	ATOM	2061	HD22	LEU	P	131	19.534	-12.538	-7.690	0.00	0.00	PROA
2062	ATOM	2062	HD23	LEU	P	131	18.034	-11.914	-8.340	0.00	0.00	PROA
2063	ATOM	2063	C	LEU	P	131	17.152	-8.886	-10.913	0.00	0.00	PROA
2064	ATOM	2064	O	LEU	P	131	17.202	-7.761	-10.420	0.00	0.00	PROA
2065	ATOM	2065	N	GLN	P	132	16.426	-9.072	-12.086	0.00	0.00	PROA
2066	ATOM	2066	HN	GLN	P	132	16.504	-9.842	-12.715	0.00	0.00	PROA
2067	ATOM	2067	CA	GLN	P	132	15.559	-8.034	-12.663	0.00	0.00	PROA
2068	ATOM	2068	HA	GLN	P	132	15.693	-7.072	-12.191	0.00	0.00	PROA
2069	ATOM	2069	CB	GLN	P	132	15.815	-7.997	-14.184	0.00	0.00	PROA
2070	ATOM	2070	HB1	GLN	P	132	15.154	-7.192	-14.570	0.00	0.00	PROA
2071	ATOM	2071	HB2	GLN	P	132	15.483	-8.966	-14.614	0.00	0.00	PROA
2072	ATOM	2072	CG	GLN	P	132	17.296	-7.674	-14.547	0.00	0.00	PROA
2073	ATOM	2073	HG1	GLN	P	132	17.193	-7.321	-15.596	0.00	0.00	PROA
2074	ATOM	2074	HG2	GLN	P	132	18.000	-8.529	-14.463	0.00	0.00	PROA
2075	ATOM	2075	CD	GLN	P	132	17.997	-6.526	-13.886	0.00	0.00	PROA
2076	ATOM	2076	OE1	GLN	P	132	17.504	-5.806	-13.067	0.00	0.00	PROA
2077	ATOM	2077	NE2	GLN	P	132	19.272	-6.251	-14.258	0.00	0.00	PROA
2078	ATOM	2078	HE21	GLN	P	132	19.547	-5.439	-13.743	0.00	0.00	PROA
2079	ATOM	2079	HE22	GLN	P	132	19.712	-6.763	-14.996	0.00	0.00	PROA
2080	ATOM	2080	C	GLN	P	132	14.075	-8.356	-12.328	0.00	0.00	PROA
2081	ATOM	2081	O	GLN	P	132	13.230	-7.454	-12.478	0.00	0.00	PROA
2082	ATOM	2082	N	ASN	P	133	13.861	-9.556	-11.750	0.00	0.00	PROA
2083	ATOM	2083	HN	ASN	P	133	14.599	-10.221	-11.671	0.00	0.00	PROA
2084	ATOM	2084	CA	ASN	P	133	12.548	-9.929	-11.338	0.00	0.00	PROA
2085	ATOM	2085	HA	ASN	P	133	11.790	-9.168	-11.231	0.00	0.00	PROA
2086	ATOM	2086	CB	ASN	P	133	12.088	-11.092	-12.300	0.00	0.00	PROA
2087	ATOM	2087	HB1	ASN	P	133	11.126	-11.571	-12.020	0.00	0.00	PROA
2088	ATOM	2088	HB2	ASN	P	133	12.862	-11.875	-12.149	0.00	0.00	PROA
2089	ATOM	2089	CG	ASN	P	133	12.079	-10.523	-13.738	0.00	0.00	PROA
2090	ATOM	2090	OD1	ASN	P	133	12.732	-10.947	-14.669	0.00	0.00	PROA
2091	ATOM	2091	ND2	ASN	P	133	11.262	-9.405	-13.893	0.00	0.00	PROA
2092	ATOM	2092	HD21	ASN	P	133	10.845	-9.051	-13.056	0.00	0.00	PROA
2093	ATOM	2093	HD22	ASN	P	133	10.767	-9.276	-14.752	0.00	0.00	PROA
2094	ATOM	2094	C	ASN	P	133	12.735	-10.533	-9.877	0.00	0.00	PROA
2095	ATOM	2095	O	ASN	P	133	12.328	-11.639	-9.581	0.00	0.00	PROA
2096	ATOM	2096	N	THR	P	134	13.261	-9.710	-8.955	0.00	0.00	PROA
2097	ATOM	2097	HN	THR	P	134	13.645	-8.849	-9.280	0.00	0.00	PROA
2098	ATOM	2098	CA	THR	P	134	13.402	-9.923	-7.545	0.00	0.00	PROA
2099	ATOM	2099	HA	THR	P	134	14.014	-10.791	-7.349	0.00	0.00	PROA
2100	ATOM	2100	CB	THR	P	134	14.052	-8.786	-6.664	0.00	0.00	PROA
2101	ATOM	2101	HB	THR	P	134	13.990	-8.981	-5.572	0.00	0.00	PROA
2102	ATOM	2102	OG1	THR	P	134	13.660	-7.504	-6.998	0.00	0.00	PROA
2103	ATOM	2103	HG1	THR	P	134	12.718	-7.414	-6.841	0.00	0.00	PROA
2104	ATOM	2104	CG2	THR	P	134	15.525	-8.810	-7.053	0.00	0.00	PROA
2105	ATOM	2105	HG21	THR	P	134	15.975	-7.823	-6.811	0.00	0.00	PROA
2106	ATOM	2106	HG22	THR	P	134	15.640	-8.995	-8.142	0.00	0.00	PROA
2107	ATOM	2107	HG23	THR	P	134	16.012	-9.613	-6.459	0.00	0.00	PROA
2108	ATOM	2108	C	THR	P	134	11.980	-10.135	-6.960	0.00	0.00	PROA
2109	ATOM	2109	O	THR	P	134	10.986	-9.567	-7.448	0.00	0.00	PROA
2110	ATOM	2110	N	VAL	P	135	11.913	-10.872	-5.856	0.00	0.00	PROA
2111	ATOM	2111	HN	VAL	P	135	12.762	-11.245	-5.490	0.00	0.00	PROA
2112	ATOM	2112	CA	VAL	P	135	10.783	-11.296	-5.076	0.00	0.00	PROA
2113	ATOM	2113	HA	VAL	P	135	10.021	-11.644	-5.758	0.00	0.00	PROA
2114	ATOM	2114	CB	VAL	P	135	11.157	-12.384	-4.177	0.00	0.00	PROA
2115	ATOM	2115	HB	VAL	P	135	12.074	-12.123	-3.607	0.00	0.00	PROA
2116	ATOM	2116	CG1	VAL	P	135	10.166	-12.717	-3.057	0.00	0.00	PROA
2117	ATOM	2117	HG11	VAL	P	135	9.188	-13.024	-3.484	0.00	0.00	PROA

2118	ATOM	2118	HG12	VAL	P	135	9.990	-11.879	-2.349	0.00	0.00	PROA
2119	ATOM	2119	HG13	VAL	P	135	10.476	-13.504	-2.336	0.00	0.00	PROA
2120	ATOM	2120	CG2	VAL	P	135	11.405	-13.679	-5.043	0.00	0.00	PROA
2121	ATOM	2121	HG21	VAL	P	135	12.276	-13.487	-5.706	0.00	0.00	PROA
2122	ATOM	2122	HG22	VAL	P	135	10.425	-13.751	-5.560	0.00	0.00	PROA
2123	ATOM	2123	HG23	VAL	P	135	11.482	-14.464	-4.260	0.00	0.00	PROA
2124	ATOM	2124	C	VAL	P	135	10.000	-10.170	-4.352	0.00	0.00	PROA
2125	ATOM	2125	O	VAL	P	135	10.534	-9.223	-3.805	0.00	0.00	PROA
2126	ATOM	2126	N	THR	P	136	8.659	-10.332	-4.258	0.00	0.00	PROA
2127	ATOM	2127	HN	THR	P	136	8.266	-10.991	-4.895	0.00	0.00	PROA
2128	ATOM	2128	CA	THR	P	136	7.632	-9.625	-3.486	0.00	0.00	PROA
2129	ATOM	2129	HA	THR	P	136	8.034	-8.713	-3.069	0.00	0.00	PROA
2130	ATOM	2130	CB	THR	P	136	6.369	-9.120	-4.171	0.00	0.00	PROA
2131	ATOM	2131	HB	THR	P	136	5.723	-9.969	-4.481	0.00	0.00	PROA
2132	ATOM	2132	OG1	THR	P	136	6.745	-8.384	-5.321	0.00	0.00	PROA
2133	ATOM	2133	HG1	THR	P	136	7.049	-8.978	-6.011	0.00	0.00	PROA
2134	ATOM	2134	CG2	THR	P	136	5.643	-8.132	-3.232	0.00	0.00	PROA
2135	ATOM	2135	HG21	THR	P	136	6.360	-7.560	-2.605	0.00	0.00	PROA
2136	ATOM	2136	HG22	THR	P	136	4.817	-8.638	-2.688	0.00	0.00	PROA
2137	ATOM	2137	HG23	THR	P	136	5.036	-7.550	-3.958	0.00	0.00	PROA
2138	ATOM	2138	C	THR	P	136	7.210	-10.539	-2.388	0.00	0.00	PROA
2139	ATOM	2139	O	THR	P	136	6.837	-11.726	-2.589	0.00	0.00	PROA
2140	ATOM	2140	N	THR	P	137	7.302	-10.048	-1.088	0.00	0.00	PROA
2141	ATOM	2141	HN	THR	P	137	7.686	-9.167	-0.823	0.00	0.00	PROA
2142	ATOM	2142	CA	THR	P	137	7.020	-10.983	-0.030	0.00	0.00	PROA
2143	ATOM	2143	HA	THR	P	137	6.164	-11.550	-0.364	0.00	0.00	PROA
2144	ATOM	2144	CB	THR	P	137	8.089	-11.981	0.403	0.00	0.00	PROA
2145	ATOM	2145	HB	THR	P	137	8.392	-12.605	-0.465	0.00	0.00	PROA
2146	ATOM	2146	OG1	THR	P	137	7.699	-12.817	1.469	0.00	0.00	PROA
2147	ATOM	2147	HG1	THR	P	137	6.812	-13.108	1.246	0.00	0.00	PROA
2148	ATOM	2148	CG2	THR	P	137	9.296	-11.200	0.956	0.00	0.00	PROA
2149	ATOM	2149	HG21	THR	P	137	10.190	-11.834	1.135	0.00	0.00	PROA
2150	ATOM	2150	HG22	THR	P	137	8.933	-10.680	1.869	0.00	0.00	PROA
2151	ATOM	2151	HG23	THR	P	137	9.466	-10.379	0.227	0.00	0.00	PROA
2152	ATOM	2152	C	THR	P	137	6.376	-10.264	1.176	0.00	0.00	PROA
2153	ATOM	2153	O	THR	P	137	6.689	-9.096	1.445	0.00	0.00	PROA
2154	ATOM	2154	N	GLY	P	138	5.348	-10.888	1.762	0.00	0.00	PROA
2155	ATOM	2155	HN	GLY	P	138	5.045	-11.793	1.473	0.00	0.00	PROA
2156	ATOM	2156	CA	GLY	P	138	4.624	-10.120	2.741	0.00	0.00	PROA
2157	ATOM	2157	HA1	GLY	P	138	4.001	-9.340	2.329	0.00	0.00	PROA
2158	ATOM	2158	HA2	GLY	P	138	5.295	-9.788	3.520	0.00	0.00	PROA
2159	ATOM	2159	C	GLY	P	138	3.680	-11.097	3.361	0.00	0.00	PROA
2160	ATOM	2160	O	GLY	P	138	3.521	-12.190	2.831	0.00	0.00	PROA
2161	ATOM	2161	N	ILE	P	139	3.023	-10.674	4.430	0.00	0.00	PROA
2162	ATOM	2162	HN	ILE	P	139	3.252	-9.779	4.804	0.00	0.00	PROA
2163	ATOM	2163	CA	ILE	P	139	1.913	-11.441	4.971	0.00	0.00	PROA
2164	ATOM	2164	HA	ILE	P	139	2.175	-12.484	5.071	0.00	0.00	PROA
2165	ATOM	2165	CB	ILE	P	139	1.530	-11.022	6.412	0.00	0.00	PROA
2166	ATOM	2166	HB	ILE	P	139	0.740	-11.672	6.845	0.00	0.00	PROA
2167	ATOM	2167	CG2	ILE	P	139	2.745	-11.334	7.301	0.00	0.00	PROA
2168	ATOM	2168	HG21	ILE	P	139	3.094	-12.383	7.187	0.00	0.00	PROA
2169	ATOM	2169	HG22	ILE	P	139	2.434	-11.152	8.352	0.00	0.00	PROA
2170	ATOM	2170	HG23	ILE	P	139	3.541	-10.584	7.105	0.00	0.00	PROA
2171	ATOM	2171	CG1	ILE	P	139	1.154	-9.562	6.605	0.00	0.00	PROA
2172	ATOM	2172	HG11	ILE	P	139	1.376	-9.068	5.635	0.00	0.00	PROA
2173	ATOM	2173	HG12	ILE	P	139	1.809	-9.089	7.366	0.00	0.00	PROA
2174	ATOM	2174	CD	ILE	P	139	-0.278	-9.433	6.969	0.00	0.00	PROA
2175	ATOM	2175	HD1	ILE	P	139	-0.890	-9.793	6.114	0.00	0.00	PROA
2176	ATOM	2176	HD2	ILE	P	139	-0.497	-8.379	7.242	0.00	0.00	PROA
2177	ATOM	2177	HD3	ILE	P	139	-0.522	-10.038	7.868	0.00	0.00	PROA
2178	ATOM	2178	C	ILE	P	139	0.589	-11.447	4.072	0.00	0.00	PROA
2179	ATOM	2179	O	ILE	P	139	0.323	-10.463	3.451	0.00	0.00	PROA
2180	ATOM	2180	N	VAL	P	140	-0.273	-12.473	4.079	0.00	0.00	PROA
2181	ATOM	2181	HN	VAL	P	140	0.091	-13.332	4.430	0.00	0.00	PROA
2182	ATOM	2182	CA	VAL	P	140	-1.589	-12.400	3.493	0.00	0.00	PROA
2183	ATOM	2183	HA	VAL	P	140	-1.511	-11.814	2.589	0.00	0.00	PROA
2184	ATOM	2184	CB	VAL	P	140	-2.139	-13.822	3.246	0.00	0.00	PROA
2185	ATOM	2185	HB	VAL	P	140	-1.962	-14.451	4.145	0.00	0.00	PROA
2186	ATOM	2186	CG1	VAL	P	140	-3.603	-13.769	2.690	0.00	0.00	PROA
2187	ATOM	2187	HG11	VAL	P	140	-3.816	-14.687	2.102	0.00	0.00	PROA
2188	ATOM	2188	HG12	VAL	P	140	-3.716	-12.928	1.973	0.00	0.00	PROA
2189	ATOM	2189	HG13	VAL	P	140	-4.406	-13.689	3.454	0.00	0.00	PROA
2190	ATOM	2190	CG2	VAL	P	140	-1.176	-14.484	2.182	0.00	0.00	PROA

2191	ATOM	2191	HG21	VAL	P	140	-1.399	-15.557	1.998	0.00	0.00	PROA
2192	ATOM	2192	HG22	VAL	P	140	-0.112	-14.446	2.499	0.00	0.00	PROA
2193	ATOM	2193	HG23	VAL	P	140	-1.274	-14.000	1.187	0.00	0.00	PROA
2194	ATOM	2194	C	VAL	P	140	-2.495	-11.676	4.430	0.00	0.00	PROA
2195	ATOM	2195	O	VAL	P	140	-2.630	-11.982	5.587	0.00	0.00	PROA
2196	ATOM	2196	N	SER	P	141	-3.100	-10.540	3.915	0.00	0.00	PROA
2197	ATOM	2197	HN	SER	P	141	-3.037	-10.247	2.964	0.00	0.00	PROA
2198	ATOM	2198	CA	SER	P	141	-4.063	-9.724	4.734	0.00	0.00	PROA
2199	ATOM	2199	HA	SER	P	141	-3.911	-9.889	5.790	0.00	0.00	PROA
2200	ATOM	2200	CB	SER	P	141	-3.759	-8.263	4.411	0.00	0.00	PROA
2201	ATOM	2201	HB1	SER	P	141	-2.666	-8.167	4.588	0.00	0.00	PROA
2202	ATOM	2202	HB2	SER	P	141	-4.303	-7.725	5.217	0.00	0.00	PROA
2203	ATOM	2203	OG	SER	P	141	-4.138	-7.874	3.122	0.00	0.00	PROA
2204	ATOM	2204	HG1	SER	P	141	-3.635	-8.246	2.394	0.00	0.00	PROA
2205	ATOM	2205	C	SER	P	141	-5.465	-10.111	4.418	0.00	0.00	PROA
2206	ATOM	2206	O	SER	P	141	-6.318	-10.030	5.331	0.00	0.00	PROA
2207	ATOM	2207	N	THR	P	142	-5.750	-10.583	3.254	0.00	0.00	PROA
2208	ATOM	2208	HN	THR	P	142	-5.072	-10.482	2.530	0.00	0.00	PROA
2209	ATOM	2209	CA	THR	P	142	-7.178	-10.959	3.014	0.00	0.00	PROA
2210	ATOM	2210	HA	THR	P	142	-7.643	-11.457	3.852	0.00	0.00	PROA
2211	ATOM	2211	CB	THR	P	142	-8.227	-9.817	2.801	0.00	0.00	PROA
2212	ATOM	2212	HB	THR	P	142	-8.203	-9.302	3.785	0.00	0.00	PROA
2213	ATOM	2213	OG1	THR	P	142	-9.552	-10.366	2.710	0.00	0.00	PROA
2214	ATOM	2214	HG1	THR	P	142	-10.150	-9.619	2.785	0.00	0.00	PROA
2215	ATOM	2215	CG2	THR	P	142	-7.978	-8.835	1.629	0.00	0.00	PROA
2216	ATOM	2216	HG21	THR	P	142	-8.702	-7.994	1.580	0.00	0.00	PROA
2217	ATOM	2217	HG22	THR	P	142	-7.859	-9.322	0.637	0.00	0.00	PROA
2218	ATOM	2218	HG23	THR	P	142	-7.023	-8.357	1.936	0.00	0.00	PROA
2219	ATOM	2219	C	THR	P	142	-7.118	-11.921	1.846	0.00	0.00	PROA
2220	ATOM	2220	O	THR	P	142	-6.271	-11.860	1.002	0.00	0.00	PROA
2221	ATOM	2221	N	THR	P	143	-8.067	-12.924	1.740	0.00	0.00	PROA
2222	ATOM	2222	HN	THR	P	143	-8.704	-13.047	2.497	0.00	0.00	PROA
2223	ATOM	2223	CA	THR	P	143	-8.214	-13.898	0.651	0.00	0.00	PROA
2224	ATOM	2224	HA	THR	P	143	-7.367	-13.764	-0.005	0.00	0.00	PROA
2225	ATOM	2225	CB	THR	P	143	-8.255	-15.336	1.120	0.00	0.00	PROA
2226	ATOM	2226	HB	THR	P	143	-8.183	-15.815	0.120	0.00	0.00	PROA
2227	ATOM	2227	OG1	THR	P	143	-9.429	-15.648	1.799	0.00	0.00	PROA
2228	ATOM	2228	HG1	THR	P	143	-10.070	-15.761	1.093	0.00	0.00	PROA
2229	ATOM	2229	CG2	THR	P	143	-6.991	-15.651	1.852	0.00	0.00	PROA
2230	ATOM	2230	HG21	THR	P	143	-7.077	-16.727	2.115	0.00	0.00	PROA
2231	ATOM	2231	HG22	THR	P	143	-6.769	-15.137	2.812	0.00	0.00	PROA
2232	ATOM	2232	HG23	THR	P	143	-6.173	-15.505	1.114	0.00	0.00	PROA
2233	ATOM	2233	C	THR	P	143	-9.326	-13.550	-0.322	0.00	0.00	PROA
2234	ATOM	2234	O	THR	P	143	-9.658	-14.317	-1.175	0.00	0.00	PROA
2235	ATOM	2235	N	GLN	P	144	-9.905	-12.294	-0.293	0.00	0.00	PROA
2236	ATOM	2236	HN	GLN	P	144	-9.458	-11.655	0.327	0.00	0.00	PROA
2237	ATOM	2237	CA	GLN	P	144	-11.118	-11.982	-1.044	0.00	0.00	PROA
2238	ATOM	2238	HA	GLN	P	144	-11.049	-12.319	-2.068	0.00	0.00	PROA
2239	ATOM	2239	CB	GLN	P	144	-12.271	-12.918	-0.510	0.00	0.00	PROA
2240	ATOM	2240	HB1	GLN	P	144	-12.101	-13.900	-1.000	0.00	0.00	PROA
2241	ATOM	2241	HB2	GLN	P	144	-13.223	-12.504	-0.906	0.00	0.00	PROA
2242	ATOM	2242	CG	GLN	P	144	-12.334	-13.153	1.011	0.00	0.00	PROA
2243	ATOM	2243	HG1	GLN	P	144	-11.363	-13.417	1.483	0.00	0.00	PROA
2244	ATOM	2244	HG2	GLN	P	144	-12.929	-14.079	1.166	0.00	0.00	PROA
2245	ATOM	2245	CD	GLN	P	144	-13.092	-11.980	1.743	0.00	0.00	PROA
2246	ATOM	2246	OE1	GLN	P	144	-14.222	-11.525	1.425	0.00	0.00	PROA
2247	ATOM	2247	NE2	GLN	P	144	-12.553	-11.556	2.874	0.00	0.00	PROA
2248	ATOM	2248	HE21	GLN	P	144	-11.767	-11.954	3.347	0.00	0.00	PROA
2249	ATOM	2249	HE22	GLN	P	144	-13.055	-10.851	3.376	0.00	0.00	PROA
2250	ATOM	2250	C	GLN	P	144	-11.408	-10.548	-1.304	0.00	0.00	PROA
2251	ATOM	2251	O	GLN	P	144	-12.391	-9.980	-0.801	0.00	0.00	PROA
2252	ATOM	2252	N	ARG	P	145	-10.518	-9.899	-2.088	0.00	0.00	PROA
2253	ATOM	2253	HN	ARG	P	145	-9.716	-10.312	-2.513	0.00	0.00	PROA
2254	ATOM	2254	CA	ARG	P	145	-10.570	-8.452	-2.304	0.00	0.00	PROA
2255	ATOM	2255	HA	ARG	P	145	-11.537	-8.028	-2.077	0.00	0.00	PROA
2256	ATOM	2256	CB	ARG	P	145	-9.520	-7.846	-1.331	0.00	0.00	PROA
2257	ATOM	2257	HB1	ARG	P	145	-8.539	-8.356	-1.437	0.00	0.00	PROA
2258	ATOM	2258	HB2	ARG	P	145	-9.942	-8.078	-0.330	0.00	0.00	PROA
2259	ATOM	2259	CG	ARG	P	145	-9.308	-6.281	-1.365	0.00	0.00	PROA
2260	ATOM	2260	HG1	ARG	P	145	-8.951	-5.964	-2.368	0.00	0.00	PROA
2261	ATOM	2261	HG2	ARG	P	145	-8.478	-6.055	-0.662	0.00	0.00	PROA
2262	ATOM	2262	CD	ARG	P	145	-10.660	-5.517	-1.166	0.00	0.00	PROA
2263	ATOM	2263	HD1	ARG	P	145	-11.202	-5.941	-0.293	0.00	0.00	PROA

2264	ATOM	2264	HD2	ARG	P	145	-11.434	-5.681	-1.946	0.00	0.00	PROA
2265	ATOM	2265	NE	ARG	P	145	-10.536	-3.973	-1.062	0.00	0.00	PROA
2266	ATOM	2266	HE	ARG	P	145	-9.657	-3.542	-1.265	0.00	0.00	PROA
2267	ATOM	2267	CZ	ARG	P	145	-11.461	-3.062	-0.879	0.00	0.00	PROA
2268	ATOM	2268	NH1	ARG	P	145	-12.752	-3.350	-0.841	0.00	0.00	PROA
2269	ATOM	2269	HH11	ARG	P	145	-12.977	-4.322	-0.775	0.00	0.00	PROA
2270	ATOM	2270	HH12	ARG	P	145	-13.360	-2.625	-0.517	0.00	0.00	PROA
2271	ATOM	2271	NH2	ARG	P	145	-11.181	-1.823	-0.619	0.00	0.00	PROA
2272	ATOM	2272	HH21	ARG	P	145	-10.195	-1.702	-0.734	0.00	0.00	PROA
2273	ATOM	2273	HH22	ARG	P	145	-11.972	-1.212	-0.650	0.00	0.00	PROA
2274	ATOM	2274	C	ARG	P	145	-10.169	-8.114	-3.756	0.00	0.00	PROA
2275	ATOM	2275	O	ARG	P	145	-9.093	-8.378	-4.323	0.00	0.00	PROA
2276	ATOM	2276	N	GLY	P	146	-11.071	-7.433	-4.484	0.00	0.00	PROA
2277	ATOM	2277	HN	GLY	P	146	-11.940	-7.255	-4.028	0.00	0.00	PROA
2278	ATOM	2278	CA	GLY	P	146	-10.723	-6.829	-5.733	0.00	0.00	PROA
2279	ATOM	2279	HA1	GLY	P	146	-11.602	-6.236	-5.934	0.00	0.00	PROA
2280	ATOM	2280	HA2	GLY	P	146	-10.405	-7.632	-6.382	0.00	0.00	PROA
2281	ATOM	2281	C	GLY	P	146	-9.624	-5.797	-5.708	0.00	0.00	PROA
2282	ATOM	2282	O	GLY	P	146	-9.356	-5.273	-4.654	0.00	0.00	PROA
2283	ATOM	2283	N	GLY	P	147	-9.030	-5.419	-6.852	0.00	0.00	PROA
2284	ATOM	2284	HN	GLY	P	147	-9.279	-5.857	-7.712	0.00	0.00	PROA
2285	ATOM	2285	CA	GLY	P	147	-7.896	-4.431	-6.787	0.00	0.00	PROA
2286	ATOM	2286	HA1	GLY	P	147	-6.949	-4.950	-6.794	0.00	0.00	PROA
2287	ATOM	2287	HA2	GLY	P	147	-8.128	-3.712	-6.015	0.00	0.00	PROA
2288	ATOM	2288	C	GLY	P	147	-7.808	-3.482	-7.915	0.00	0.00	PROA
2289	ATOM	2289	O	GLY	P	147	-6.680	-3.026	-8.187	0.00	0.00	PROA
2290	ATOM	2290	N	LYS	P	148	-8.950	-3.179	-8.562	0.00	0.00	PROA
2291	ATOM	2291	HN	LYS	P	148	-9.751	-3.654	-8.206	0.00	0.00	PROA
2292	ATOM	2292	CA	LYS	P	148	-9.244	-2.205	-9.617	0.00	0.00	PROA
2293	ATOM	2293	HA	LYS	P	148	-10.316	-2.122	-9.716	0.00	0.00	PROA
2294	ATOM	2294	CB	LYS	P	148	-8.863	-0.770	-9.106	0.00	0.00	PROA
2295	ATOM	2295	HB1	LYS	P	148	-8.883	0.005	-9.901	0.00	0.00	PROA
2296	ATOM	2296	HB2	LYS	P	148	-7.826	-0.824	-8.711	0.00	0.00	PROA
2297	ATOM	2297	CG	LYS	P	148	-9.638	-0.360	-7.836	0.00	0.00	PROA
2298	ATOM	2298	HG1	LYS	P	148	-9.115	-0.879	-7.004	0.00	0.00	PROA
2299	ATOM	2299	HG2	LYS	P	148	-10.665	-0.782	-7.881	0.00	0.00	PROA
2300	ATOM	2300	CD	LYS	P	148	-9.806	1.177	-7.626	0.00	0.00	PROA
2301	ATOM	2301	HD1	LYS	P	148	-10.416	1.247	-6.700	0.00	0.00	PROA
2302	ATOM	2302	HD2	LYS	P	148	-10.475	1.684	-8.355	0.00	0.00	PROA
2303	ATOM	2303	CE	LYS	P	148	-8.456	1.914	-7.502	0.00	0.00	PROA
2304	ATOM	2304	HE1	LYS	P	148	-8.034	1.933	-8.529	0.00	0.00	PROA
2305	ATOM	2305	HE2	LYS	P	148	-7.743	1.500	-6.757	0.00	0.00	PROA
2306	ATOM	2306	NZ	LYS	P	148	-8.689	3.291	-6.934	0.00	0.00	PROA
2307	ATOM	2307	HZ1	LYS	P	148	-9.577	3.278	-6.394	0.00	0.00	PROA
2308	ATOM	2308	HZ2	LYS	P	148	-8.774	3.940	-7.742	0.00	0.00	PROA
2309	ATOM	2309	HZ3	LYS	P	148	-7.925	3.669	-6.338	0.00	0.00	PROA
2310	ATOM	2310	C	LYS	P	148	-8.791	-2.485	-11.039	0.00	0.00	PROA
2311	ATOM	2311	O	LYS	P	148	-7.856	-3.253	-11.269	0.00	0.00	PROA
2312	ATOM	2312	N	GLU	P	149	-9.597	-2.131	-11.989	0.00	0.00	PROA
2313	ATOM	2313	HN	GLU	P	149	-10.271	-1.444	-11.727	0.00	0.00	PROA
2314	ATOM	2314	CA	GLU	P	149	-9.299	-2.302	-13.359	0.00	0.00	PROA
2315	ATOM	2315	HA	GLU	P	149	-8.385	-2.845	-13.547	0.00	0.00	PROA
2316	ATOM	2316	CB	GLU	P	149	-10.389	-3.014	-14.083	0.00	0.00	PROA
2317	ATOM	2317	HB1	GLU	P	149	-10.030	-3.181	-15.121	0.00	0.00	PROA
2318	ATOM	2318	HB2	GLU	P	149	-11.367	-2.486	-14.075	0.00	0.00	PROA
2319	ATOM	2319	CG	GLU	P	149	-10.539	-4.480	-13.605	0.00	0.00	PROA
2320	ATOM	2320	HG1	GLU	P	149	-11.136	-5.108	-14.300	0.00	0.00	PROA
2321	ATOM	2321	HG2	GLU	P	149	-11.215	-4.457	-12.723	0.00	0.00	PROA
2322	ATOM	2322	CD	GLU	P	149	-9.243	-5.249	-13.397	0.00	0.00	PROA
2323	ATOM	2323	OE1	GLU	P	149	-8.284	-5.244	-14.252	0.00	0.00	PROA
2324	ATOM	2324	OE2	GLU	P	149	-9.056	-5.933	-12.330	0.00	0.00	PROA
2325	ATOM	2325	C	GLU	P	149	-9.136	-0.954	-14.094	0.00	0.00	PROA
2326	ATOM	2326	O	GLU	P	149	-9.126	0.152	-13.475	0.00	0.00	PROA
2327	ATOM	2327	N	LEU	P	150	-8.895	-1.021	-15.410	0.00	0.00	PROA
2328	ATOM	2328	HN	LEU	P	150	-8.889	-1.826	-15.998	0.00	0.00	PROA
2329	ATOM	2329	CA	LEU	P	150	-8.512	0.073	-16.234	0.00	0.00	PROA
2330	ATOM	2330	HA	LEU	P	150	-7.698	0.631	-15.796	0.00	0.00	PROA
2331	ATOM	2331	CB	LEU	P	150	-8.134	-0.450	-17.682	0.00	0.00	PROA
2332	ATOM	2332	HB1	LEU	P	150	-8.066	0.375	-18.424	0.00	0.00	PROA
2333	ATOM	2333	HB2	LEU	P	150	-8.909	-1.101	-18.140	0.00	0.00	PROA
2334	ATOM	2334	CG	LEU	P	150	-6.746	-1.106	-17.707	0.00	0.00	PROA
2335	ATOM	2335	HG	LEU	P	150	-6.533	-1.580	-16.725	0.00	0.00	PROA
2336	ATOM	2336	CD1	LEU	P	150	-6.555	-2.101	-18.958	0.00	0.00	PROA

2337	ATOM	2337	HD11	LEU	P	150	-7.156	-3.014	-18.759	0.00	0.00	PROA
2338	ATOM	2338	HD12	LEU	P	150	-5.512	-2.431	-19.153	0.00	0.00	PROA
2339	ATOM	2339	HD13	LEU	P	150	-7.017	-1.582	-19.824	0.00	0.00	PROA
2340	ATOM	2340	CD2	LEU	P	150	-5.573	-0.018	-17.847	0.00	0.00	PROA
2341	ATOM	2341	HD21	LEU	P	150	-5.763	0.636	-18.725	0.00	0.00	PROA
2342	ATOM	2342	HD22	LEU	P	150	-4.600	-0.546	-17.944	0.00	0.00	PROA
2343	ATOM	2343	HD23	LEU	P	150	-5.565	0.695	-16.995	0.00	0.00	PROA
2344	ATOM	2344	C	LEU	P	150	-9.595	1.151	-16.343	0.00	0.00	PROA
2345	ATOM	2345	O	LEU	P	150	-10.765	0.905	-16.061	0.00	0.00	PROA
2346	ATOM	2346	N	GLY	P	151	-9.195	2.405	-16.565	0.00	0.00	PROA
2347	ATOM	2347	HN	GLY	P	151	-8.341	2.654	-17.014	0.00	0.00	PROA
2348	ATOM	2348	CA	GLY	P	151	-10.123	3.461	-16.130	0.00	0.00	PROA
2349	ATOM	2349	HA1	GLY	P	151	-11.077	3.274	-16.600	0.00	0.00	PROA
2350	ATOM	2350	HA2	GLY	P	151	-9.654	4.400	-16.384	0.00	0.00	PROA
2351	ATOM	2351	C	GLY	P	151	-10.453	3.533	-14.646	0.00	0.00	PROA
2352	ATOM	2352	O	GLY	P	151	-9.558	3.473	-13.788	0.00	0.00	PROA
2353	ATOM	2353	N	LEU	P	152	-11.717	3.871	-14.283	0.00	0.00	PROA
2354	ATOM	2354	HN	LEU	P	152	-12.385	4.170	-14.960	0.00	0.00	PROA
2355	ATOM	2355	CA	LEU	P	152	-12.139	4.000	-12.855	0.00	0.00	PROA
2356	ATOM	2356	HA	LEU	P	152	-11.311	4.008	-12.161	0.00	0.00	PROA
2357	ATOM	2357	CB	LEU	P	152	-12.819	5.347	-12.741	0.00	0.00	PROA
2358	ATOM	2358	HB1	LEU	P	152	-12.855	5.565	-11.652	0.00	0.00	PROA
2359	ATOM	2359	HB2	LEU	P	152	-13.788	5.315	-13.283	0.00	0.00	PROA
2360	ATOM	2360	CG	LEU	P	152	-11.970	6.562	-13.283	0.00	0.00	PROA
2361	ATOM	2361	HG	LEU	P	152	-11.575	6.283	-14.283	0.00	0.00	PROA
2362	ATOM	2362	CD1	LEU	P	152	-12.860	7.776	-13.313	0.00	0.00	PROA
2363	ATOM	2363	HD11	LEU	P	152	-12.306	8.675	-13.659	0.00	0.00	PROA
2364	ATOM	2364	HD12	LEU	P	152	-13.166	8.167	-12.319	0.00	0.00	PROA
2365	ATOM	2365	HD13	LEU	P	152	-13.827	7.713	-13.856	0.00	0.00	PROA
2366	ATOM	2366	CD2	LEU	P	152	-10.798	6.780	-12.336	0.00	0.00	PROA
2367	ATOM	2367	HD21	LEU	P	152	-10.240	5.821	-12.285	0.00	0.00	PROA
2368	ATOM	2368	HD22	LEU	P	152	-11.139	7.091	-11.326	0.00	0.00	PROA
2369	ATOM	2369	HD23	LEU	P	152	-10.088	7.536	-12.734	0.00	0.00	PROA
2370	ATOM	2370	C	LEU	P	152	-12.996	2.797	-12.453	0.00	0.00	PROA
2371	ATOM	2371	O	LEU	P	152	-13.818	2.967	-11.594	0.00	0.00	PROA
2372	ATOM	2372	N	ARG	P	153	-12.745	1.587	-13.026	0.00	0.00	PROA
2373	ATOM	2373	HN	ARG	P	153	-11.944	1.570	-13.619	0.00	0.00	PROA
2374	ATOM	2374	CA	ARG	P	153	-13.463	0.319	-12.745	0.00	0.00	PROA
2375	ATOM	2375	HA	ARG	P	153	-14.437	0.576	-12.356	0.00	0.00	PROA
2376	ATOM	2376	CB	ARG	P	153	-13.648	-0.426	-14.054	0.00	0.00	PROA
2377	ATOM	2377	HB1	ARG	P	153	-14.128	-1.421	-13.941	0.00	0.00	PROA
2378	ATOM	2378	HB2	ARG	P	153	-12.598	-0.707	-14.281	0.00	0.00	PROA
2379	ATOM	2379	CG	ARG	P	153	-14.345	0.234	-15.297	0.00	0.00	PROA
2380	ATOM	2380	HG1	ARG	P	153	-14.329	1.344	-15.248	0.00	0.00	PROA
2381	ATOM	2381	HG2	ARG	P	153	-15.433	0.049	-15.171	0.00	0.00	PROA
2382	ATOM	2382	CD	ARG	P	153	-13.970	-0.223	-16.700	0.00	0.00	PROA
2383	ATOM	2383	HD1	ARG	P	153	-12.894	-0.063	-16.928	0.00	0.00	PROA
2384	ATOM	2384	HD2	ARG	P	153	-14.513	0.238	-17.553	0.00	0.00	PROA
2385	ATOM	2385	NE	ARG	P	153	-14.282	-1.699	-16.699	0.00	0.00	PROA
2386	ATOM	2386	HE	ARG	P	153	-15.179	-1.976	-16.353	0.00	0.00	PROA
2387	ATOM	2387	CZ	ARG	P	153	-13.537	-2.644	-17.285	0.00	0.00	PROA
2388	ATOM	2388	NH1	ARG	P	153	-13.579	-3.894	-16.798	0.00	0.00	PROA
2389	ATOM	2389	HH11	ARG	P	153	-14.043	-4.195	-15.964	0.00	0.00	PROA
2390	ATOM	2390	HH12	ARG	P	153	-12.773	-4.435	-17.037	0.00	0.00	PROA
2391	ATOM	2391	NH2	ARG	P	153	-12.579	-2.354	-18.133	0.00	0.00	PROA
2392	ATOM	2392	HH21	ARG	P	153	-12.470	-1.415	-18.460	0.00	0.00	PROA
2393	ATOM	2393	HH22	ARG	P	153	-12.093	-3.069	-18.635	0.00	0.00	PROA
2394	ATOM	2394	C	ARG	P	153	-12.890	-0.501	-11.604	0.00	0.00	PROA
2395	ATOM	2395	O	ARG	P	153	-11.730	-0.414	-11.304	0.00	0.00	PROA
2396	ATOM	2396	N	ASN	P	154	-13.710	-1.383	-10.918	0.00	0.00	PROA
2397	ATOM	2397	HN	ASN	P	154	-14.627	-1.447	-11.306	0.00	0.00	PROA
2398	ATOM	2398	CA	ASN	P	154	-13.245	-2.387	-10.009	0.00	0.00	PROA
2399	ATOM	2399	HA	ASN	P	154	-12.263	-2.072	-9.689	0.00	0.00	PROA
2400	ATOM	2400	CB	ASN	P	154	-14.290	-2.394	-8.818	0.00	0.00	PROA
2401	ATOM	2401	HB1	ASN	P	154	-14.318	-3.392	-8.331	0.00	0.00	PROA
2402	ATOM	2402	HB2	ASN	P	154	-15.283	-2.234	-9.291	0.00	0.00	PROA
2403	ATOM	2403	CG	ASN	P	154	-14.037	-1.323	-7.756	0.00	0.00	PROA
2404	ATOM	2404	OD1	ASN	P	154	-13.506	-1.516	-6.600	0.00	0.00	PROA
2405	ATOM	2405	ND2	ASN	P	154	-14.306	-0.026	-8.103	0.00	0.00	PROA
2406	ATOM	2406	HD21	ASN	P	154	-13.940	0.676	-7.492	0.00	0.00	PROA
2407	ATOM	2407	HD22	ASN	P	154	-14.771	0.150	-8.970	0.00	0.00	PROA
2408	ATOM	2408	C	ASN	P	154	-12.993	-3.738	-10.636	0.00	0.00	PROA
2409	ATOM	2409	O	ASN	P	154	-13.492	-4.042	-11.694	0.00	0.00	PROA

2410	ATOM	2410	N	SER	P	155	-12.301	-4.669	-9.924	0.00	0.00	PROA
2411	ATOM	2411	HN	SER	P	155	-11.860	-4.351	-9.088	0.00	0.00	PROA
2412	ATOM	2412	CA	SER	P	155	-12.003	-6.021	-10.388	0.00	0.00	PROA
2413	ATOM	2413	HA	SER	P	155	-11.634	-5.907	-11.396	0.00	0.00	PROA
2414	ATOM	2414	CB	SER	P	155	-10.911	-6.720	-9.604	0.00	0.00	PROA
2415	ATOM	2415	HB1	SER	P	155	-10.634	-7.778	-9.798	0.00	0.00	PROA
2416	ATOM	2416	HB2	SER	P	155	-11.322	-6.708	-8.571	0.00	0.00	PROA
2417	ATOM	2417	OG	SER	P	155	-9.680	-5.927	-9.713	0.00	0.00	PROA
2418	ATOM	2418	HG1	SER	P	155	-9.526	-5.727	-10.639	0.00	0.00	PROA
2419	ATOM	2419	C	SER	P	155	-13.278	-6.908	-10.453	0.00	0.00	PROA
2420	ATOM	2420	O	SER	P	155	-14.306	-6.658	-9.792	0.00	0.00	PROA
2421	ATOM	2421	N	ASP	P	156	-13.268	-7.999	-11.320	0.00	0.00	PROA
2422	ATOM	2422	HN	ASP	P	156	-12.407	-8.070	-11.819	0.00	0.00	PROA
2423	ATOM	2423	CA	ASP	P	156	-14.326	-8.850	-11.578	0.00	0.00	PROA
2424	ATOM	2424	HA	ASP	P	156	-15.191	-8.482	-11.046	0.00	0.00	PROA
2425	ATOM	2425	CB	ASP	P	156	-14.668	-8.959	-13.128	0.00	0.00	PROA
2426	ATOM	2426	HB1	ASP	P	156	-15.363	-9.780	-13.404	0.00	0.00	PROA
2427	ATOM	2427	HB2	ASP	P	156	-13.763	-8.994	-13.772	0.00	0.00	PROA
2428	ATOM	2428	CG	ASP	P	156	-15.342	-7.654	-13.580	0.00	0.00	PROA
2429	ATOM	2429	OD1	ASP	P	156	-15.420	-7.403	-14.789	0.00	0.00	PROA
2430	ATOM	2430	OD2	ASP	P	156	-16.006	-6.997	-12.728	0.00	0.00	PROA
2431	ATOM	2431	C	ASP	P	156	-14.059	-10.250	-11.054	0.00	0.00	PROA
2432	ATOM	2432	O	ASP	P	156	-14.911	-11.150	-11.207	0.00	0.00	PROA
2433	ATOM	2433	N	MET	P	157	-12.904	-10.430	-10.360	0.00	0.00	PROA
2434	ATOM	2434	HN	MET	P	157	-12.217	-9.737	-10.158	0.00	0.00	PROA
2435	ATOM	2435	CA	MET	P	157	-12.622	-11.699	-9.734	0.00	0.00	PROA
2436	ATOM	2436	HA	MET	P	157	-13.541	-12.208	-9.484	0.00	0.00	PROA
2437	ATOM	2437	CB	MET	P	157	-11.725	-12.544	-10.538	0.00	0.00	PROA
2438	ATOM	2438	HB1	MET	P	157	-10.663	-12.217	-10.559	0.00	0.00	PROA
2439	ATOM	2439	HB2	MET	P	157	-11.998	-12.656	-11.609	0.00	0.00	PROA
2440	ATOM	2440	CG	MET	P	157	-11.522	-14.005	-10.004	0.00	0.00	PROA
2441	ATOM	2441	HG1	MET	P	157	-11.316	-14.603	-10.917	0.00	0.00	PROA
2442	ATOM	2442	HG2	MET	P	157	-12.581	-14.241	-9.762	0.00	0.00	PROA
2443	ATOM	2443	SD	MET	P	157	-10.380	-14.462	-8.661	0.00	0.00	PROA
2444	ATOM	2444	CE	MET	P	157	-11.135	-16.032	-8.268	0.00	0.00	PROA
2445	ATOM	2445	HE1	MET	P	157	-10.662	-16.796	-8.921	0.00	0.00	PROA
2446	ATOM	2446	HE2	MET	P	157	-12.244	-16.086	-8.309	0.00	0.00	PROA
2447	ATOM	2447	HE3	MET	P	157	-10.887	-16.251	-7.207	0.00	0.00	PROA
2448	ATOM	2448	C	MET	P	157	-11.981	-11.256	-8.348	0.00	0.00	PROA
2449	ATOM	2449	O	MET	P	157	-11.209	-10.293	-8.221	0.00	0.00	PROA
2450	ATOM	2450	N	ASP	P	158	-12.267	-12.030	-7.357	0.00	0.00	PROA
2451	ATOM	2451	HN	ASP	P	158	-12.840	-12.818	-7.569	0.00	0.00	PROA
2452	ATOM	2452	CA	ASP	P	158	-11.827	-11.801	-5.969	0.00	0.00	PROA
2453	ATOM	2453	HA	ASP	P	158	-11.701	-10.730	-5.908	0.00	0.00	PROA
2454	ATOM	2454	CB	ASP	P	158	-12.871	-12.358	-4.900	0.00	0.00	PROA
2455	ATOM	2455	HB1	ASP	P	158	-12.328	-12.526	-3.946	0.00	0.00	PROA
2456	ATOM	2456	HB2	ASP	P	158	-13.085	-13.359	-5.332	0.00	0.00	PROA
2457	ATOM	2457	CG	ASP	P	158	-14.148	-11.471	-4.897	0.00	0.00	PROA
2458	ATOM	2458	OD1	ASP	P	158	-15.143	-11.984	-5.423	0.00	0.00	PROA
2459	ATOM	2459	OD2	ASP	P	158	-14.016	-10.345	-4.423	0.00	0.00	PROA
2460	ATOM	2460	C	ASP	P	158	-10.461	-12.399	-5.582	0.00	0.00	PROA
2461	ATOM	2461	O	ASP	P	158	-10.259	-13.583	-5.436	0.00	0.00	PROA
2462	ATOM	2462	N	TYR	P	159	-9.435	-11.569	-5.337	0.00	0.00	PROA
2463	ATOM	2463	HN	TYR	P	159	-9.715	-10.613	-5.378	0.00	0.00	PROA
2464	ATOM	2464	CA	TYR	P	159	-8.090	-11.853	-5.239	0.00	0.00	PROA
2465	ATOM	2465	HA	TYR	P	159	-7.828	-12.801	-5.687	0.00	0.00	PROA
2466	ATOM	2466	CB	TYR	P	159	-7.221	-10.760	-5.883	0.00	0.00	PROA
2467	ATOM	2467	HB1	TYR	P	159	-6.223	-11.245	-5.931	0.00	0.00	PROA
2468	ATOM	2468	HB2	TYR	P	159	-7.318	-9.839	-5.269	0.00	0.00	PROA
2469	ATOM	2469	CG	TYR	P	159	-7.506	-10.391	-7.253	0.00	0.00	PROA
2470	ATOM	2470	CD1	TYR	P	159	-7.476	-9.063	-7.624	0.00	0.00	PROA
2471	ATOM	2471	HD1	TYR	P	159	-7.345	-8.322	-6.850	0.00	0.00	PROA
2472	ATOM	2472	CE1	TYR	P	159	-7.776	-8.692	-8.936	0.00	0.00	PROA
2473	ATOM	2473	HE1	TYR	P	159	-7.782	-7.657	-9.246	0.00	0.00	PROA
2474	ATOM	2474	CZ	TYR	P	159	-8.181	-9.600	-9.894	0.00	0.00	PROA
2475	ATOM	2475	OH	TYR	P	159	-8.451	-9.209	-11.271	0.00	0.00	PROA
2476	ATOM	2476	HH	TYR	P	159	-8.995	-9.882	-11.687	0.00	0.00	PROA
2477	ATOM	2477	CD2	TYR	P	159	-7.855	-11.394	-8.222	0.00	0.00	PROA
2478	ATOM	2478	HD2	TYR	P	159	-7.800	-12.428	-7.915	0.00	0.00	PROA
2479	ATOM	2479	CE2	TYR	P	159	-8.272	-10.959	-9.513	0.00	0.00	PROA
2480	ATOM	2480	HE2	TYR	P	159	-8.574	-11.654	-10.283	0.00	0.00	PROA
2481	ATOM	2481	C	TYR	P	159	-7.639	-12.020	-3.796	0.00	0.00	PROA
2482	ATOM	2482	O	TYR	P	159	-8.253	-11.678	-2.778	0.00	0.00	PROA

2483	ATOM	2483	N	ILE	P	160	-6.458	-12.685	-3.659	0.00	0.00	PROA
2484	ATOM	2484	HN	ILE	P	160	-6.041	-12.995	-4.510	0.00	0.00	PROA
2485	ATOM	2485	CA	ILE	P	160	-5.752	-12.880	-2.377	0.00	0.00	PROA
2486	ATOM	2486	HA	ILE	P	160	-6.433	-12.893	-1.539	0.00	0.00	PROA
2487	ATOM	2487	CB	ILE	P	160	-4.910	-14.113	-2.348	0.00	0.00	PROA
2488	ATOM	2488	HB	ILE	P	160	-4.386	-14.283	-3.313	0.00	0.00	PROA
2489	ATOM	2489	CG2	ILE	P	160	-4.007	-14.287	-1.061	0.00	0.00	PROA
2490	ATOM	2490	HG21	ILE	P	160	-4.615	-14.383	-0.136	0.00	0.00	PROA
2491	ATOM	2491	HG22	ILE	P	160	-3.157	-13.575	-0.992	0.00	0.00	PROA
2492	ATOM	2492	HG23	ILE	P	160	-3.416	-15.219	-1.187	0.00	0.00	PROA
2493	ATOM	2493	CG1	ILE	P	160	-5.859	-15.307	-2.544	0.00	0.00	PROA
2494	ATOM	2494	HG11	ILE	P	160	-6.652	-15.221	-3.316	0.00	0.00	PROA
2495	ATOM	2495	HG12	ILE	P	160	-6.459	-15.665	-1.680	0.00	0.00	PROA
2496	ATOM	2496	CD	ILE	P	160	-5.114	-16.518	-3.171	0.00	0.00	PROA
2497	ATOM	2497	HD1	ILE	P	160	-4.856	-16.312	-4.232	0.00	0.00	PROA
2498	ATOM	2498	HD2	ILE	P	160	-5.749	-17.429	-3.127	0.00	0.00	PROA
2499	ATOM	2499	HD3	ILE	P	160	-4.168	-16.781	-2.652	0.00	0.00	PROA
2500	ATOM	2500	C	ILE	P	160	-4.821	-11.675	-2.241	0.00	0.00	PROA
2501	ATOM	2501	O	ILE	P	160	-4.219	-11.249	-3.227	0.00	0.00	PROA
2502	ATOM	2502	N	GLN	P	161	-4.683	-11.010	-1.108	0.00	0.00	PROA
2503	ATOM	2503	HN	GLN	P	161	-5.277	-11.210	-0.333	0.00	0.00	PROA
2504	ATOM	2504	CA	GLN	P	161	-4.117	-9.726	-1.067	0.00	0.00	PROA
2505	ATOM	2505	HA	GLN	P	161	-3.667	-9.427	-2.002	0.00	0.00	PROA
2506	ATOM	2506	CB	GLN	P	161	-5.016	-8.548	-0.532	0.00	0.00	PROA
2507	ATOM	2507	HB1	GLN	P	161	-5.402	-8.767	0.486	0.00	0.00	PROA
2508	ATOM	2508	HB2	GLN	P	161	-5.817	-8.456	-1.296	0.00	0.00	PROA
2509	ATOM	2509	CG	GLN	P	161	-4.401	-7.117	-0.383	0.00	0.00	PROA
2510	ATOM	2510	HG1	GLN	P	161	-3.697	-6.931	-1.223	0.00	0.00	PROA
2511	ATOM	2511	HG2	GLN	P	161	-3.692	-7.039	0.469	0.00	0.00	PROA
2512	ATOM	2512	CD	GLN	P	161	-5.384	-5.934	-0.306	0.00	0.00	PROA
2513	ATOM	2513	OE1	GLN	P	161	-6.263	-6.029	0.571	0.00	0.00	PROA
2514	ATOM	2514	NE2	GLN	P	161	-5.193	-4.927	-1.155	0.00	0.00	PROA
2515	ATOM	2515	HE21	GLN	P	161	-5.721	-4.085	-1.050	0.00	0.00	PROA
2516	ATOM	2516	HE22	GLN	P	161	-4.454	-4.974	-1.827	0.00	0.00	PROA
2517	ATOM	2517	C	GLN	P	161	-2.967	-9.809	-0.036	0.00	0.00	PROA
2518	ATOM	2518	O	GLN	P	161	-3.245	-9.851	1.173	0.00	0.00	PROA
2519	ATOM	2519	N	THR	P	162	-1.712	-9.679	-0.472	0.00	0.00	PROA
2520	ATOM	2520	HN	THR	P	162	-1.618	-9.561	-1.458	0.00	0.00	PROA
2521	ATOM	2521	CA	THR	P	162	-0.531	-9.870	0.382	0.00	0.00	PROA
2522	ATOM	2522	HA	THR	P	162	-0.800	-10.321	1.326	0.00	0.00	PROA
2523	ATOM	2523	CB	THR	P	162	0.633	-10.607	-0.337	0.00	0.00	PROA
2524	ATOM	2524	HB	THR	P	162	0.845	-10.152	-1.329	0.00	0.00	PROA
2525	ATOM	2525	OG1	THR	P	162	0.241	-11.990	-0.350	0.00	0.00	PROA
2526	ATOM	2526	HG1	THR	P	162	-0.244	-12.148	-1.164	0.00	0.00	PROA
2527	ATOM	2527	CG2	THR	P	162	1.924	-10.496	0.502	0.00	0.00	PROA
2528	ATOM	2528	HG21	THR	P	162	1.702	-10.816	1.543	0.00	0.00	PROA
2529	ATOM	2529	HG22	THR	P	162	2.512	-9.556	0.444	0.00	0.00	PROA
2530	ATOM	2530	HG23	THR	P	162	2.782	-11.108	0.152	0.00	0.00	PROA
2531	ATOM	2531	C	THR	P	162	-0.053	-8.466	0.589	0.00	0.00	PROA
2532	ATOM	2532	O	THR	P	162	0.172	-7.695	-0.325	0.00	0.00	PROA
2533	ATOM	2533	N	ASP	P	163	0.257	-8.128	1.791	0.00	0.00	PROA
2534	ATOM	2534	HN	ASP	P	163	0.248	-8.759	2.563	0.00	0.00	PROA
2535	ATOM	2535	CA	ASP	P	163	0.601	-6.774	2.194	0.00	0.00	PROA
2536	ATOM	2536	HA	ASP	P	163	-0.117	-6.165	1.665	0.00	0.00	PROA
2537	ATOM	2537	CB	ASP	P	163	0.159	-6.570	3.626	0.00	0.00	PROA
2538	ATOM	2538	HB1	ASP	P	163	0.812	-7.217	4.251	0.00	0.00	PROA
2539	ATOM	2539	HB2	ASP	P	163	-0.884	-6.926	3.765	0.00	0.00	PROA
2540	ATOM	2540	CG	ASP	P	163	0.115	-5.115	4.042	0.00	0.00	PROA
2541	ATOM	2541	OD1	ASP	P	163	0.018	-4.961	5.250	0.00	0.00	PROA
2542	ATOM	2542	OD2	ASP	P	163	0.265	-4.188	3.202	0.00	0.00	PROA
2543	ATOM	2543	C	ASP	P	163	1.994	-6.351	1.860	0.00	0.00	PROA
2544	ATOM	2544	O	ASP	P	163	2.900	-6.148	2.737	0.00	0.00	PROA
2545	ATOM	2545	N	ALA	P	164	2.204	-6.155	0.537	0.00	0.00	PROA
2546	ATOM	2546	HN	ALA	P	164	1.498	-6.630	0.018	0.00	0.00	PROA
2547	ATOM	2547	CA	ALA	P	164	3.480	-5.780	0.046	0.00	0.00	PROA
2548	ATOM	2548	HA	ALA	P	164	3.956	-5.178	0.805	0.00	0.00	PROA
2549	ATOM	2549	CB	ALA	P	164	4.449	-6.957	-0.102	0.00	0.00	PROA
2550	ATOM	2550	HB1	ALA	P	164	4.065	-7.672	-0.861	0.00	0.00	PROA
2551	ATOM	2551	HB2	ALA	P	164	4.516	-7.541	0.841	0.00	0.00	PROA
2552	ATOM	2552	HB3	ALA	P	164	5.422	-6.537	-0.434	0.00	0.00	PROA
2553	ATOM	2553	C	ALA	P	164	3.306	-5.049	-1.309	0.00	0.00	PROA
2554	ATOM	2554	O	ALA	P	164	2.343	-5.263	-2.000	0.00	0.00	PROA
2555	ATOM	2555	N	ILE	P	165	4.194	-4.107	-1.639	0.00	0.00	PROA

2556	ATOM	2556	HN	ILE	P	165	4.848	-3.838	-0.936	0.00	0.00	PROA
2557	ATOM	2557	CA	ILE	P	165	4.250	-3.375	-2.909	0.00	0.00	PROA
2558	ATOM	2558	HA	ILE	P	165	3.226	-3.207	-3.208	0.00	0.00	PROA
2559	ATOM	2559	CB	ILE	P	165	4.951	-1.997	-2.804	0.00	0.00	PROA
2560	ATOM	2560	HB	ILE	P	165	5.955	-2.012	-2.328	0.00	0.00	PROA
2561	ATOM	2561	CG2	ILE	P	165	4.984	-1.168	-4.133	0.00	0.00	PROA
2562	ATOM	2562	HG21	ILE	P	165	5.780	-1.628	-4.758	0.00	0.00	PROA
2563	ATOM	2563	HG22	ILE	P	165	5.149	-0.108	-3.844	0.00	0.00	PROA
2564	ATOM	2564	HG23	ILE	P	165	4.010	-1.297	-4.651	0.00	0.00	PROA
2565	ATOM	2565	CG1	ILE	P	165	4.155	-1.134	-1.746	0.00	0.00	PROA
2566	ATOM	2566	HG11	ILE	P	165	4.684	-0.158	-1.694	0.00	0.00	PROA
2567	ATOM	2567	HG12	ILE	P	165	4.118	-1.662	-0.769	0.00	0.00	PROA
2568	ATOM	2568	CD	ILE	P	165	2.711	-0.902	-2.090	0.00	0.00	PROA
2569	ATOM	2569	HD1	ILE	P	165	2.117	-1.793	-2.386	0.00	0.00	PROA
2570	ATOM	2570	HD2	ILE	P	165	2.657	-0.113	-2.872	0.00	0.00	PROA
2571	ATOM	2571	HD3	ILE	P	165	2.117	-0.394	-1.301	0.00	0.00	PROA
2572	ATOM	2572	C	ILE	P	165	5.025	-4.163	-3.992	0.00	0.00	PROA
2573	ATOM	2573	O	ILE	P	165	6.157	-4.605	-3.885	0.00	0.00	PROA
2574	ATOM	2574	N	ILE	P	166	4.444	-4.373	-5.184	0.00	0.00	PROA
2575	ATOM	2575	HN	ILE	P	166	3.473	-4.158	-5.263	0.00	0.00	PROA
2576	ATOM	2576	CA	ILE	P	166	5.031	-5.169	-6.294	0.00	0.00	PROA
2577	ATOM	2577	HA	ILE	P	166	5.176	-6.145	-5.854	0.00	0.00	PROA
2578	ATOM	2578	CB	ILE	P	166	4.018	-5.280	-7.457	0.00	0.00	PROA
2579	ATOM	2579	HB	ILE	P	166	4.341	-5.981	-8.257	0.00	0.00	PROA
2580	ATOM	2580	CG2	ILE	P	166	2.626	-5.771	-6.919	0.00	0.00	PROA
2581	ATOM	2581	HG21	ILE	P	166	2.093	-5.030	-6.285	0.00	0.00	PROA
2582	ATOM	2582	HG22	ILE	P	166	2.727	-6.744	-6.392	0.00	0.00	PROA
2583	ATOM	2583	HG23	ILE	P	166	1.941	-5.987	-7.766	0.00	0.00	PROA
2584	ATOM	2584	CG1	ILE	P	166	3.782	-3.907	-8.124	0.00	0.00	PROA
2585	ATOM	2585	HG11	ILE	P	166	4.784	-3.496	-8.370	0.00	0.00	PROA
2586	ATOM	2586	HG12	ILE	P	166	3.159	-3.172	-7.570	0.00	0.00	PROA
2587	ATOM	2587	CD	ILE	P	166	3.191	-4.179	-9.515	0.00	0.00	PROA
2588	ATOM	2588	HD1	ILE	P	166	3.127	-3.234	-10.096	0.00	0.00	PROA
2589	ATOM	2589	HD2	ILE	P	166	2.229	-4.723	-9.398	0.00	0.00	PROA
2590	ATOM	2590	HD3	ILE	P	166	3.815	-4.934	-10.040	0.00	0.00	PROA
2591	ATOM	2591	C	ILE	P	166	6.434	-4.885	-6.845	0.00	0.00	PROA
2592	ATOM	2592	O	ILE	P	166	6.988	-3.767	-6.816	0.00	0.00	PROA
2593	ATOM	2593	N	ASN	P	167	7.143	-6.001	-7.234	0.00	0.00	PROA
2594	ATOM	2594	HN	ASN	P	167	6.781	-6.862	-6.886	0.00	0.00	PROA
2595	ATOM	2595	CA	ASN	P	167	8.347	-6.069	-8.004	0.00	0.00	PROA
2596	ATOM	2596	HA	ASN	P	167	8.855	-5.120	-7.909	0.00	0.00	PROA
2597	ATOM	2597	CB	ASN	P	167	9.330	-7.160	-7.457	0.00	0.00	PROA
2598	ATOM	2598	HB1	ASN	P	167	10.192	-7.278	-8.148	0.00	0.00	PROA
2599	ATOM	2599	HB2	ASN	P	167	8.940	-8.178	-7.243	0.00	0.00	PROA
2600	ATOM	2600	CG	ASN	P	167	9.979	-6.679	-6.210	0.00	0.00	PROA
2601	ATOM	2601	OD1	ASN	P	167	11.193	-6.359	-6.163	0.00	0.00	PROA
2602	ATOM	2602	ND2	ASN	P	167	9.181	-6.622	-5.133	0.00	0.00	PROA
2603	ATOM	2603	HD21	ASN	P	167	8.305	-7.105	-5.127	0.00	0.00	PROA
2604	ATOM	2604	HD22	ASN	P	167	9.538	-6.418	-4.221	0.00	0.00	PROA
2605	ATOM	2605	C	ASN	P	167	8.067	-6.442	-9.428	0.00	0.00	PROA
2606	ATOM	2606	O	ASN	P	167	7.175	-7.259	-9.673	0.00	0.00	PROA
2607	ATOM	2607	N	TYR	P	168	8.862	-5.931	-10.394	0.00	0.00	PROA
2608	ATOM	2608	HN	TYR	P	168	9.606	-5.294	-10.206	0.00	0.00	PROA
2609	ATOM	2609	CA	TYR	P	168	8.652	-6.038	-11.847	0.00	0.00	PROA
2610	ATOM	2610	HA	TYR	P	168	7.664	-5.680	-12.094	0.00	0.00	PROA
2611	ATOM	2611	CB	TYR	P	168	9.719	-5.227	-12.609	0.00	0.00	PROA
2612	ATOM	2612	HB1	TYR	P	168	10.798	-5.428	-12.437	0.00	0.00	PROA
2613	ATOM	2613	HB2	TYR	P	168	9.412	-4.237	-12.209	0.00	0.00	PROA
2614	ATOM	2614	CG	TYR	P	168	9.601	-5.137	-14.115	0.00	0.00	PROA
2615	ATOM	2615	CD1	TYR	P	168	10.323	-6.057	-14.853	0.00	0.00	PROA
2616	ATOM	2616	HD1	TYR	P	168	10.952	-6.756	-14.323	0.00	0.00	PROA
2617	ATOM	2617	CE1	TYR	P	168	10.293	-6.009	-16.277	0.00	0.00	PROA
2618	ATOM	2618	HE1	TYR	P	168	10.916	-6.716	-16.803	0.00	0.00	PROA
2619	ATOM	2619	CZ	TYR	P	168	9.623	-4.992	-16.904	0.00	0.00	PROA
2620	ATOM	2620	OH	TYR	P	168	9.643	-4.900	-18.404	0.00	0.00	PROA
2621	ATOM	2621	HH	TYR	P	168	9.878	-5.770	-18.735	0.00	0.00	PROA
2622	ATOM	2622	CD2	TYR	P	168	8.804	-4.159	-14.746	0.00	0.00	PROA
2623	ATOM	2623	HD2	TYR	P	168	8.176	-3.465	-14.207	0.00	0.00	PROA
2624	ATOM	2624	CE2	TYR	P	168	8.823	-4.125	-16.130	0.00	0.00	PROA
2625	ATOM	2625	HE2	TYR	P	168	8.342	-3.229	-16.493	0.00	0.00	PROA
2626	ATOM	2626	C	TYR	P	168	8.683	-7.477	-12.302	0.00	0.00	PROA
2627	ATOM	2627	O	TYR	P	168	9.559	-8.269	-11.922	0.00	0.00	PROA
2628	ATOM	2628	N	GLY	P	169	7.746	-7.929	-13.140	0.00	0.00	PROA

2629	ATOM	2629	HN	GLY	P	169	6.991	-7.357	-13.452	0.00	0.00	PROA
2630	ATOM	2630	CA	GLY	P	169	7.809	-9.298	-13.745	0.00	0.00	PROA
2631	ATOM	2631	HA1	GLY	P	169	8.732	-9.442	-14.288	0.00	0.00	PROA
2632	ATOM	2632	HA2	GLY	P	169	7.003	-9.322	-14.463	0.00	0.00	PROA
2633	ATOM	2633	C	GLY	P	169	7.468	-10.400	-12.809	0.00	0.00	PROA
2634	ATOM	2634	O	GLY	P	169	7.771	-11.577	-12.955	0.00	0.00	PROA
2635	ATOM	2635	N	ASN	P	170	6.771	-10.091	-11.749	0.00	0.00	PROA
2636	ATOM	2636	HN	ASN	P	170	6.389	-9.172	-11.692	0.00	0.00	PROA
2637	ATOM	2637	CA	ASN	P	170	6.238	-11.104	-10.903	0.00	0.00	PROA
2638	ATOM	2638	HA	ASN	P	170	6.920	-11.927	-10.755	0.00	0.00	PROA
2639	ATOM	2639	CB	ASN	P	170	6.125	-10.445	-9.466	0.00	0.00	PROA
2640	ATOM	2640	HB1	ASN	P	170	5.411	-11.040	-8.859	0.00	0.00	PROA
2641	ATOM	2641	HB2	ASN	P	170	5.595	-9.478	-9.602	0.00	0.00	PROA
2642	ATOM	2642	CG	ASN	P	170	7.410	-10.281	-8.579	0.00	0.00	PROA
2643	ATOM	2643	OD1	ASN	P	170	7.314	-10.159	-7.329	0.00	0.00	PROA
2644	ATOM	2644	ND2	ASN	P	170	8.659	-10.467	-9.102	0.00	0.00	PROA
2645	ATOM	2645	HD21	ASN	P	170	8.592	-10.427	-10.099	0.00	0.00	PROA
2646	ATOM	2646	HD22	ASN	P	170	9.420	-10.301	-8.476	0.00	0.00	PROA
2647	ATOM	2647	C	ASN	P	170	4.920	-11.649	-11.362	0.00	0.00	PROA
2648	ATOM	2648	O	ASN	P	170	4.561	-12.807	-11.153	0.00	0.00	PROA
2649	ATOM	2649	N	SER	P	171	4.109	-10.863	-12.105	0.00	0.00	PROA
2650	ATOM	2650	HN	SER	P	171	4.319	-9.891	-12.174	0.00	0.00	PROA
2651	ATOM	2651	CA	SER	P	171	2.746	-11.213	-12.598	0.00	0.00	PROA
2652	ATOM	2652	HA	SER	P	171	2.152	-11.445	-11.726	0.00	0.00	PROA
2653	ATOM	2653	CB	SER	P	171	2.043	-10.021	-13.231	0.00	0.00	PROA
2654	ATOM	2654	HB1	SER	P	171	2.520	-9.794	-14.208	0.00	0.00	PROA
2655	ATOM	2655	HB2	SER	P	171	2.240	-9.169	-12.546	0.00	0.00	PROA
2656	ATOM	2656	OG	SER	P	171	0.691	-10.279	-13.421	0.00	0.00	PROA
2657	ATOM	2657	HG1	SER	P	171	0.589	-10.984	-14.064	0.00	0.00	PROA
2658	ATOM	2658	C	SER	P	171	2.817	-12.424	-13.616	0.00	0.00	PROA
2659	ATOM	2659	O	SER	P	171	3.725	-12.587	-14.466	0.00	0.00	PROA
2660	ATOM	2660	N	GLY	P	172	1.793	-13.315	-13.505	0.00	0.00	PROA
2661	ATOM	2661	HN	GLY	P	172	0.947	-13.135	-13.009	0.00	0.00	PROA
2662	ATOM	2662	CA	GLY	P	172	1.864	-14.592	-14.250	0.00	0.00	PROA
2663	ATOM	2663	HA1	GLY	P	172	2.494	-14.554	-15.126	0.00	0.00	PROA
2664	ATOM	2664	HA2	GLY	P	172	0.839	-14.777	-14.535	0.00	0.00	PROA
2665	ATOM	2665	C	GLY	P	172	2.386	-15.731	-13.393	0.00	0.00	PROA
2666	ATOM	2666	O	GLY	P	172	1.896	-16.875	-13.367	0.00	0.00	PROA
2667	ATOM	2667	N	GLY	P	173	3.424	-15.466	-12.555	0.00	0.00	PROA
2668	ATOM	2668	HN	GLY	P	173	3.896	-14.590	-12.617	0.00	0.00	PROA
2669	ATOM	2669	CA	GLY	P	173	4.030	-16.494	-11.673	0.00	0.00	PROA
2670	ATOM	2670	HA1	GLY	P	173	4.883	-15.962	-11.280	0.00	0.00	PROA
2671	ATOM	2671	HA2	GLY	P	173	4.149	-17.465	-12.130	0.00	0.00	PROA
2672	ATOM	2672	C	GLY	P	173	3.226	-16.799	-10.448	0.00	0.00	PROA
2673	ATOM	2673	O	GLY	P	173	2.167	-16.257	-10.222	0.00	0.00	PROA
2674	ATOM	2674	N	PRO	P	174	3.738	-17.770	-9.731	0.00	0.00	PROA
2675	ATOM	2675	CD	PRO	P	174	5.006	-18.480	-9.935	0.00	0.00	PROA
2676	ATOM	2676	HD1	PRO	P	174	5.899	-17.830	-9.810	0.00	0.00	PROA
2677	ATOM	2677	HD2	PRO	P	174	5.042	-19.059	-10.882	0.00	0.00	PROA
2678	ATOM	2678	CA	PRO	P	174	3.072	-18.180	-8.520	0.00	0.00	PROA
2679	ATOM	2679	HA	PRO	P	174	2.025	-18.261	-8.769	0.00	0.00	PROA
2680	ATOM	2680	CB	PRO	P	174	3.662	-19.597	-8.329	0.00	0.00	PROA
2681	ATOM	2681	HB1	PRO	P	174	3.305	-20.302	-9.109	0.00	0.00	PROA
2682	ATOM	2682	HB2	PRO	P	174	3.642	-19.960	-7.279	0.00	0.00	PROA
2683	ATOM	2683	CG	PRO	P	174	5.108	-19.478	-8.743	0.00	0.00	PROA
2684	ATOM	2684	HG1	PRO	P	174	5.712	-18.907	-8.006	0.00	0.00	PROA
2685	ATOM	2685	HG2	PRO	P	174	5.552	-20.444	-9.067	0.00	0.00	PROA
2686	ATOM	2686	C	PRO	P	174	3.295	-17.387	-7.220	0.00	0.00	PROA
2687	ATOM	2687	O	PRO	P	174	4.378	-16.911	-7.061	0.00	0.00	PROA
2688	ATOM	2688	N	LEU	P	175	2.275	-17.408	-6.381	0.00	0.00	PROA
2689	ATOM	2689	HN	LEU	P	175	1.409	-17.831	-6.636	0.00	0.00	PROA
2690	ATOM	2690	CA	LEU	P	175	2.320	-17.066	-5.032	0.00	0.00	PROA
2691	ATOM	2691	HA	LEU	P	175	3.155	-16.406	-4.850	0.00	0.00	PROA
2692	ATOM	2692	CB	LEU	P	175	0.999	-16.329	-4.463	0.00	0.00	PROA
2693	ATOM	2693	HB1	LEU	P	175	0.121	-16.981	-4.660	0.00	0.00	PROA
2694	ATOM	2694	HB2	LEU	P	175	0.864	-15.491	-5.180	0.00	0.00	PROA
2695	ATOM	2695	CG	LEU	P	175	0.980	-15.851	-2.990	0.00	0.00	PROA
2696	ATOM	2696	HG	LEU	P	175	1.335	-16.729	-2.411	0.00	0.00	PROA
2697	ATOM	2697	CD1	LEU	P	175	1.907	-14.672	-2.779	0.00	0.00	PROA
2698	ATOM	2698	HD11	LEU	P	175	2.288	-14.557	-1.742	0.00	0.00	PROA
2699	ATOM	2699	HD12	LEU	P	175	1.365	-13.753	-3.088	0.00	0.00	PROA
2700	ATOM	2700	HD13	LEU	P	175	2.696	-14.707	-3.561	0.00	0.00	PROA
2701	ATOM	2701	CD2	LEU	P	175	-0.437	-15.572	-2.406	0.00	0.00	PROA

2702	ATOM	2702	HD21	LEU	P	175	-1.128	-16.290	-2.897	0.00	0.00	PROA
2703	ATOM	2703	HD22	LEU	P	175	-0.687	-14.562	-2.798	0.00	0.00	PROA
2704	ATOM	2704	HD23	LEU	P	175	-0.581	-15.543	-1.305	0.00	0.00	PROA
2705	ATOM	2705	C	LEU	P	175	2.448	-18.330	-4.224	0.00	0.00	PROA
2706	ATOM	2706	O	LEU	P	175	1.710	-19.291	-4.361	0.00	0.00	PROA
2707	ATOM	2707	N	VAL	P	176	3.509	-18.415	-3.369	0.00	0.00	PROA
2708	ATOM	2708	HN	VAL	P	176	4.165	-17.682	-3.207	0.00	0.00	PROA
2709	ATOM	2709	CA	VAL	P	176	3.894	-19.718	-2.830	0.00	0.00	PROA
2710	ATOM	2710	HA	VAL	P	176	3.231	-20.493	-3.186	0.00	0.00	PROA
2711	ATOM	2711	CB	VAL	P	176	5.297	-20.104	-3.341	0.00	0.00	PROA
2712	ATOM	2712	HB	VAL	P	176	6.128	-19.452	-2.996	0.00	0.00	PROA
2713	ATOM	2713	CG1	VAL	P	176	5.637	-21.599	-3.040	0.00	0.00	PROA
2714	ATOM	2714	HG11	VAL	P	176	6.531	-21.927	-3.612	0.00	0.00	PROA
2715	ATOM	2715	HG12	VAL	P	176	4.771	-22.269	-3.228	0.00	0.00	PROA
2716	ATOM	2716	HG13	VAL	P	176	5.746	-21.599	-1.935	0.00	0.00	PROA
2717	ATOM	2717	CG2	VAL	P	176	5.328	-19.806	-4.913	0.00	0.00	PROA
2718	ATOM	2718	HG21	VAL	P	176	4.324	-20.134	-5.257	0.00	0.00	PROA
2719	ATOM	2719	HG22	VAL	P	176	6.106	-20.433	-5.399	0.00	0.00	PROA
2720	ATOM	2720	HG23	VAL	P	176	5.351	-18.741	-5.230	0.00	0.00	PROA
2721	ATOM	2721	C	VAL	P	176	3.911	-19.596	-1.302	0.00	0.00	PROA
2722	ATOM	2722	O	VAL	P	176	4.362	-18.599	-0.721	0.00	0.00	PROA
2723	ATOM	2723	N	ASN	P	177	3.433	-20.584	-0.593	0.00	0.00	PROA
2724	ATOM	2724	HN	ASN	P	177	3.049	-21.380	-1.054	0.00	0.00	PROA
2725	ATOM	2725	CA	ASN	P	177	3.540	-20.503	0.837	0.00	0.00	PROA
2726	ATOM	2726	HA	ASN	P	177	3.397	-19.489	1.181	0.00	0.00	PROA
2727	ATOM	2727	CB	ASN	P	177	2.381	-21.291	1.576	0.00	0.00	PROA
2728	ATOM	2728	HB1	ASN	P	177	1.475	-20.858	1.102	0.00	0.00	PROA
2729	ATOM	2729	HB2	ASN	P	177	2.363	-21.168	2.680	0.00	0.00	PROA
2730	ATOM	2730	CG	ASN	P	177	2.395	-22.776	1.235	0.00	0.00	PROA
2731	ATOM	2731	OD1	ASN	P	177	3.191	-23.359	0.543	0.00	0.00	PROA
2732	ATOM	2732	ND2	ASN	P	177	1.371	-23.486	1.690	0.00	0.00	PROA
2733	ATOM	2733	HD21	ASN	P	177	1.374	-24.465	1.485	0.00	0.00	PROA
2734	ATOM	2734	HD22	ASN	P	177	0.636	-22.988	2.149	0.00	0.00	PROA
2735	ATOM	2735	C	ASN	P	177	4.909	-21.067	1.281	0.00	0.00	PROA
2736	ATOM	2736	O	ASN	P	177	5.683	-21.506	0.443	0.00	0.00	PROA
2737	ATOM	2737	N	LEU	P	178	5.286	-21.024	2.575	0.00	0.00	PROA
2738	ATOM	2738	HN	LEU	P	178	4.858	-20.650	3.395	0.00	0.00	PROA
2739	ATOM	2739	CA	LEU	P	178	6.590	-21.497	2.937	0.00	0.00	PROA
2740	ATOM	2740	HA	LEU	P	178	7.330	-21.198	2.209	0.00	0.00	PROA
2741	ATOM	2741	CB	LEU	P	178	6.918	-20.730	4.262	0.00	0.00	PROA
2742	ATOM	2742	HB1	LEU	P	178	7.847	-21.135	4.717	0.00	0.00	PROA
2743	ATOM	2743	HB2	LEU	P	178	6.089	-20.833	4.995	0.00	0.00	PROA
2744	ATOM	2744	CG	LEU	P	178	7.296	-19.238	4.039	0.00	0.00	PROA
2745	ATOM	2745	HG	LEU	P	178	6.498	-18.700	3.485	0.00	0.00	PROA
2746	ATOM	2746	CD1	LEU	P	178	7.561	-18.563	5.396	0.00	0.00	PROA
2747	ATOM	2747	HD11	LEU	P	178	8.372	-17.811	5.495	0.00	0.00	PROA
2748	ATOM	2748	HD12	LEU	P	178	7.849	-19.354	6.121	0.00	0.00	PROA
2749	ATOM	2749	HD13	LEU	P	178	6.609	-18.061	5.675	0.00	0.00	PROA
2750	ATOM	2750	CD2	LEU	P	178	8.595	-19.010	3.219	0.00	0.00	PROA
2751	ATOM	2751	HD21	LEU	P	178	8.965	-17.990	3.461	0.00	0.00	PROA
2752	ATOM	2752	HD22	LEU	P	178	8.516	-19.091	2.113	0.00	0.00	PROA
2753	ATOM	2753	HD23	LEU	P	178	9.391	-19.706	3.561	0.00	0.00	PROA
2754	ATOM	2754	C	LEU	P	178	6.659	-22.997	3.205	0.00	0.00	PROA
2755	ATOM	2755	O	LEU	P	178	7.633	-23.565	3.804	0.00	0.00	PROA
2756	ATOM	2756	N	ASP	P	179	5.611	-23.721	2.785	0.00	0.00	PROA
2757	ATOM	2757	HN	ASP	P	179	4.872	-23.150	2.435	0.00	0.00	PROA
2758	ATOM	2758	CA	ASP	P	179	5.673	-25.118	2.679	0.00	0.00	PROA
2759	ATOM	2759	HA	ASP	P	179	6.296	-25.585	3.428	0.00	0.00	PROA
2760	ATOM	2760	CB	ASP	P	179	4.247	-25.735	2.893	0.00	0.00	PROA
2761	ATOM	2761	HB1	ASP	P	179	4.189	-26.795	2.563	0.00	0.00	PROA
2762	ATOM	2762	HB2	ASP	P	179	3.625	-25.121	2.207	0.00	0.00	PROA
2763	ATOM	2763	CG	ASP	P	179	3.867	-25.558	4.324	0.00	0.00	PROA
2764	ATOM	2764	OD1	ASP	P	179	2.653	-25.666	4.727	0.00	0.00	PROA
2765	ATOM	2765	OD2	ASP	P	179	4.737	-25.311	5.239	0.00	0.00	PROA
2766	ATOM	2766	C	ASP	P	179	6.174	-25.446	1.257	0.00	0.00	PROA
2767	ATOM	2767	O	ASP	P	179	6.974	-26.351	1.166	0.00	0.00	PROA
2768	ATOM	2768	N	GLY	P	180	5.751	-24.727	0.166	0.00	0.00	PROA
2769	ATOM	2769	HN	GLY	P	180	5.073	-24.020	0.354	0.00	0.00	PROA
2770	ATOM	2770	CA	GLY	P	180	6.289	-24.809	-1.222	0.00	0.00	PROA
2771	ATOM	2771	HA1	GLY	P	180	6.991	-25.627	-1.289	0.00	0.00	PROA
2772	ATOM	2772	HA2	GLY	P	180	6.659	-23.820	-1.446	0.00	0.00	PROA
2773	ATOM	2773	C	GLY	P	180	5.127	-25.035	-2.148	0.00	0.00	PROA
2774	ATOM	2774	O	GLY	P	180	5.255	-25.400	-3.294	0.00	0.00	PROA

2775	ATOM	2775	N	GLU	P	181	3.913	-24.821	-1.730	0.00	0.00	PROA
2776	ATOM	2776	HN	GLU	P	181	3.698	-24.504	-0.810	0.00	0.00	PROA
2777	ATOM	2777	CA	GLU	P	181	2.707	-25.126	-2.442	0.00	0.00	PROA
2778	ATOM	2778	HA	GLU	P	181	2.875	-25.934	-3.139	0.00	0.00	PROA
2779	ATOM	2779	CB	GLU	P	181	1.654	-25.652	-1.452	0.00	0.00	PROA
2780	ATOM	2780	HB1	GLU	P	181	0.726	-25.942	-1.989	0.00	0.00	PROA
2781	ATOM	2781	HB2	GLU	P	181	1.372	-24.747	-0.872	0.00	0.00	PROA
2782	ATOM	2782	CG	GLU	P	181	2.119	-26.761	-0.512	0.00	0.00	PROA
2783	ATOM	2783	HG1	GLU	P	181	2.931	-26.286	0.079	0.00	0.00	PROA
2784	ATOM	2784	HG2	GLU	P	181	2.520	-27.672	-1.005	0.00	0.00	PROA
2785	ATOM	2785	CD	GLU	P	181	1.019	-27.178	0.382	0.00	0.00	PROA
2786	ATOM	2786	OE1	GLU	P	181	0.509	-28.253	0.109	0.00	0.00	PROA
2787	ATOM	2787	OE2	GLU	P	181	0.687	-26.402	1.276	0.00	0.00	PROA
2788	ATOM	2788	C	GLU	P	181	2.234	-23.802	-3.025	0.00	0.00	PROA
2789	ATOM	2789	O	GLU	P	181	2.205	-22.677	-2.434	0.00	0.00	PROA
2790	ATOM	2790	N	VAL	P	182	1.825	-23.856	-4.304	0.00	0.00	PROA
2791	ATOM	2791	HN	VAL	P	182	1.881	-24.781	-4.672	0.00	0.00	PROA
2792	ATOM	2792	CA	VAL	P	182	1.368	-22.760	-5.099	0.00	0.00	PROA
2793	ATOM	2793	HA	VAL	P	182	1.976	-21.896	-4.874	0.00	0.00	PROA
2794	ATOM	2794	CB	VAL	P	182	1.415	-23.008	-6.556	0.00	0.00	PROA
2795	ATOM	2795	HB	VAL	P	182	1.143	-24.067	-6.750	0.00	0.00	PROA
2796	ATOM	2796	CG1	VAL	P	182	0.678	-22.057	-7.432	0.00	0.00	PROA
2797	ATOM	2797	HG11	VAL	P	182	-0.389	-21.823	-7.225	0.00	0.00	PROA
2798	ATOM	2798	HG12	VAL	P	182	0.739	-22.255	-8.523	0.00	0.00	PROA
2799	ATOM	2799	HG13	VAL	P	182	1.090	-21.027	-7.377	0.00	0.00	PROA
2800	ATOM	2800	CG2	VAL	P	182	2.913	-22.978	-6.976	0.00	0.00	PROA
2801	ATOM	2801	HG21	VAL	P	182	3.405	-22.063	-6.582	0.00	0.00	PROA
2802	ATOM	2802	HG22	VAL	P	182	3.077	-23.231	-8.045	0.00	0.00	PROA
2803	ATOM	2803	HG23	VAL	P	182	3.472	-23.762	-6.423	0.00	0.00	PROA
2804	ATOM	2804	C	VAL	P	182	-0.038	-22.431	-4.593	0.00	0.00	PROA
2805	ATOM	2805	O	VAL	P	182	-0.976	-23.134	-4.882	0.00	0.00	PROA
2806	ATOM	2806	N	ILE	P	183	-0.264	-21.240	-4.005	0.00	0.00	PROA
2807	ATOM	2807	HN	ILE	P	183	0.533	-20.804	-3.594	0.00	0.00	PROA
2808	ATOM	2808	CA	ILE	P	183	-1.503	-20.817	-3.332	0.00	0.00	PROA
2809	ATOM	2809	HA	ILE	P	183	-2.173	-21.663	-3.281	0.00	0.00	PROA
2810	ATOM	2810	CB	ILE	P	183	-1.268	-20.468	-1.853	0.00	0.00	PROA
2811	ATOM	2811	HB	ILE	P	183	-2.231	-20.046	-1.495	0.00	0.00	PROA
2812	ATOM	2812	CG2	ILE	P	183	-1.216	-21.794	-1.027	0.00	0.00	PROA
2813	ATOM	2813	HG21	ILE	P	183	-0.452	-22.527	-1.363	0.00	0.00	PROA
2814	ATOM	2814	HG22	ILE	P	183	-2.207	-22.296	-1.043	0.00	0.00	PROA
2815	ATOM	2815	HG23	ILE	P	183	-0.982	-21.703	0.055	0.00	0.00	PROA
2816	ATOM	2816	CG1	ILE	P	183	-0.020	-19.582	-1.663	0.00	0.00	PROA
2817	ATOM	2817	HG11	ILE	P	183	0.306	-19.037	-2.575	0.00	0.00	PROA
2818	ATOM	2818	HG12	ILE	P	183	0.886	-20.214	-1.540	0.00	0.00	PROA
2819	ATOM	2819	CD	ILE	P	183	-0.141	-18.698	-0.467	0.00	0.00	PROA
2820	ATOM	2820	HD1	ILE	P	183	0.818	-18.249	-0.133	0.00	0.00	PROA
2821	ATOM	2821	HD2	ILE	P	183	-0.536	-19.185	0.450	0.00	0.00	PROA
2822	ATOM	2822	HD3	ILE	P	183	-0.823	-17.868	-0.750	0.00	0.00	PROA
2823	ATOM	2823	C	ILE	P	183	-2.142	-19.696	-4.137	0.00	0.00	PROA
2824	ATOM	2824	O	ILE	P	183	-3.240	-19.311	-3.865	0.00	0.00	PROA
2825	ATOM	2825	N	GLY	P	184	-1.494	-19.212	-5.205	0.00	0.00	PROA
2826	ATOM	2826	HN	GLY	P	184	-0.609	-19.648	-5.347	0.00	0.00	PROA
2827	ATOM	2827	CA	GLY	P	184	-2.124	-18.294	-6.105	0.00	0.00	PROA
2828	ATOM	2828	HA1	GLY	P	184	-2.126	-17.301	-5.678	0.00	0.00	PROA
2829	ATOM	2829	HA2	GLY	P	184	-2.988	-18.807	-6.499	0.00	0.00	PROA
2830	ATOM	2830	C	GLY	P	184	-1.224	-18.157	-7.227	0.00	0.00	PROA
2831	ATOM	2831	O	GLY	P	184	-0.147	-18.693	-7.355	0.00	0.00	PROA
2832	ATOM	2832	N	ILE	P	185	-1.695	-17.431	-8.227	0.00	0.00	PROA
2833	ATOM	2833	HN	ILE	P	185	-2.570	-16.971	-8.099	0.00	0.00	PROA
2834	ATOM	2834	CA	ILE	P	185	-1.092	-16.940	-9.424	0.00	0.00	PROA
2835	ATOM	2835	HA	ILE	P	185	-0.044	-17.176	-9.313	0.00	0.00	PROA
2836	ATOM	2836	CB	ILE	P	185	-1.698	-17.597	-10.695	0.00	0.00	PROA
2837	ATOM	2837	HB	ILE	P	185	-1.455	-18.681	-10.662	0.00	0.00	PROA
2838	ATOM	2838	CG2	ILE	P	185	-3.184	-17.475	-10.661	0.00	0.00	PROA
2839	ATOM	2839	HG21	ILE	P	185	-3.691	-18.115	-11.415	0.00	0.00	PROA
2840	ATOM	2840	HG22	ILE	P	185	-3.446	-16.417	-10.876	0.00	0.00	PROA
2841	ATOM	2841	HG23	ILE	P	185	-3.716	-17.874	-9.771	0.00	0.00	PROA
2842	ATOM	2842	CG1	ILE	P	185	-1.180	-17.121	-12.063	0.00	0.00	PROA
2843	ATOM	2843	HG11	ILE	P	185	-0.083	-17.254	-11.948	0.00	0.00	PROA
2844	ATOM	2844	HG12	ILE	P	185	-1.397	-16.040	-12.204	0.00	0.00	PROA
2845	ATOM	2845	CD	ILE	P	185	-1.675	-17.933	-13.208	0.00	0.00	PROA
2846	ATOM	2846	HD1	ILE	P	185	-0.961	-17.803	-14.050	0.00	0.00	PROA
2847	ATOM	2847	HD2	ILE	P	185	-2.729	-17.831	-13.543	0.00	0.00	PROA

2848	ATOM	2848	HD3	ILE	P	185	-1.624	-19.005	-12.921	0.00	0.00	PROA
2849	ATOM	2849	C	ILE	P	185	-1.173	-15.390	-9.433	0.00	0.00	PROA
2850	ATOM	2850	O	ILE	P	185	-2.197	-14.866	-9.144	0.00	0.00	PROA
2851	ATOM	2851	N	ASN	P	186	-0.038	-14.710	-9.645	0.00	0.00	PROA
2852	ATOM	2852	HN	ASN	P	186	0.807	-15.206	-9.827	0.00	0.00	PROA
2853	ATOM	2853	CA	ASN	P	186	0.008	-13.271	-9.436	0.00	0.00	PROA
2854	ATOM	2854	HA	ASN	P	186	-0.488	-13.026	-8.508	0.00	0.00	PROA
2855	ATOM	2855	CB	ASN	P	186	1.458	-12.769	-9.270	0.00	0.00	PROA
2856	ATOM	2856	HB1	ASN	P	186	1.449	-11.684	-9.032	0.00	0.00	PROA
2857	ATOM	2857	HB2	ASN	P	186	1.996	-12.996	-10.215	0.00	0.00	PROA
2858	ATOM	2858	CG	ASN	P	186	2.201	-13.519	-8.187	0.00	0.00	PROA
2859	ATOM	2859	OD1	ASN	P	186	1.526	-13.696	-7.144	0.00	0.00	PROA
2860	ATOM	2860	ND2	ASN	P	186	3.462	-13.734	-8.317	0.00	0.00	PROA
2861	ATOM	2861	HD21	ASN	P	186	4.054	-14.160	-7.633	0.00	0.00	PROA
2862	ATOM	2862	HD22	ASN	P	186	3.964	-13.472	-9.142	0.00	0.00	PROA
2863	ATOM	2863	C	ASN	P	186	-0.846	-12.501	-10.474	0.00	0.00	PROA
2864	ATOM	2864	O	ASN	P	186	-0.756	-12.842	-11.635	0.00	0.00	PROA
2865	ATOM	2865	N	THR	P	187	-1.554	-11.404	-10.121	0.00	0.00	PROA
2866	ATOM	2866	HN	THR	P	187	-1.575	-11.048	-9.190	0.00	0.00	PROA
2867	ATOM	2867	CA	THR	P	187	-2.069	-10.509	-11.181	0.00	0.00	PROA
2868	ATOM	2868	HA	THR	P	187	-1.690	-10.841	-12.136	0.00	0.00	PROA
2869	ATOM	2869	CB	THR	P	187	-3.588	-10.537	-11.408	0.00	0.00	PROA
2870	ATOM	2870	HB	THR	P	187	-3.821	-11.491	-11.928	0.00	0.00	PROA
2871	ATOM	2871	OG1	THR	P	187	-4.082	-9.465	-12.209	0.00	0.00	PROA
2872	ATOM	2872	HG1	THR	P	187	-4.412	-9.917	-12.989	0.00	0.00	PROA
2873	ATOM	2873	CG2	THR	P	187	-4.299	-10.511	-10.074	0.00	0.00	PROA
2874	ATOM	2874	HG21	THR	P	187	-3.926	-9.697	-9.417	0.00	0.00	PROA
2875	ATOM	2875	HG22	THR	P	187	-4.170	-11.472	-9.531	0.00	0.00	PROA
2876	ATOM	2876	HG23	THR	P	187	-5.365	-10.381	-10.358	0.00	0.00	PROA
2877	ATOM	2877	C	THR	P	187	-1.549	-9.127	-11.049	0.00	0.00	PROA
2878	ATOM	2878	O	THR	P	187	-1.537	-8.577	-9.989	0.00	0.00	PROA
2879	ATOM	2879	N	LEU	P	188	-0.993	-8.481	-12.118	0.00	0.00	PROA
2880	ATOM	2880	HN	LEU	P	188	-0.793	-9.070	-12.897	0.00	0.00	PROA
2881	ATOM	2881	CA	LEU	P	188	-0.656	-7.044	-12.219	0.00	0.00	PROA
2882	ATOM	2882	HA	LEU	P	188	-0.210	-6.805	-11.265	0.00	0.00	PROA
2883	ATOM	2883	CB	LEU	P	188	0.316	-6.805	-13.335	0.00	0.00	PROA
2884	ATOM	2884	HB1	LEU	P	188	-0.023	-7.341	-14.247	0.00	0.00	PROA
2885	ATOM	2885	HB2	LEU	P	188	1.252	-7.381	-13.170	0.00	0.00	PROA
2886	ATOM	2886	CG	LEU	P	188	0.795	-5.360	-13.629	0.00	0.00	PROA
2887	ATOM	2887	HG	LEU	P	188	0.635	-4.808	-12.678	0.00	0.00	PROA
2888	ATOM	2888	CD1	LEU	P	188	2.329	-5.375	-13.756	0.00	0.00	PROA
2889	ATOM	2889	HD11	LEU	P	188	2.744	-4.429	-14.165	0.00	0.00	PROA
2890	ATOM	2890	HD12	LEU	P	188	2.692	-6.163	-14.450	0.00	0.00	PROA
2891	ATOM	2891	HD13	LEU	P	188	2.824	-5.521	-12.772	0.00	0.00	PROA
2892	ATOM	2892	CD2	LEU	P	188	0.039	-4.686	-14.706	0.00	0.00	PROA
2893	ATOM	2893	HD21	LEU	P	188	0.085	-5.353	-15.593	0.00	0.00	PROA
2894	ATOM	2894	HD22	LEU	P	188	0.515	-3.716	-14.962	0.00	0.00	PROA
2895	ATOM	2895	HD23	LEU	P	188	-1.020	-4.448	-14.470	0.00	0.00	PROA
2896	ATOM	2896	C	LEU	P	188	-1.788	-6.126	-12.352	0.00	0.00	PROA
2897	ATOM	2897	O	LEU	P	188	-2.688	-6.144	-13.211	0.00	0.00	PROA
2898	ATOM	2898	N	LYS	P	189	-2.023	-5.262	-11.305	0.00	0.00	PROA
2899	ATOM	2899	HN	LYS	P	189	-1.373	-5.117	-10.563	0.00	0.00	PROA
2900	ATOM	2900	CA	LYS	P	189	-3.099	-4.310	-11.373	0.00	0.00	PROA
2901	ATOM	2901	HA	LYS	P	189	-3.870	-4.575	-12.081	0.00	0.00	PROA
2902	ATOM	2902	CB	LYS	P	189	-3.777	-4.213	-10.021	0.00	0.00	PROA
2903	ATOM	2903	HB1	LYS	P	189	-4.660	-3.540	-10.083	0.00	0.00	PROA
2904	ATOM	2904	HB2	LYS	P	189	-3.043	-3.808	-9.292	0.00	0.00	PROA
2905	ATOM	2905	CG	LYS	P	189	-4.303	-5.627	-9.448	0.00	0.00	PROA
2906	ATOM	2906	HG1	LYS	P	189	-4.874	-5.359	-8.534	0.00	0.00	PROA
2907	ATOM	2907	HG2	LYS	P	189	-3.406	-6.137	-9.034	0.00	0.00	PROA
2908	ATOM	2908	CD	LYS	P	189	-4.982	-6.613	-10.394	0.00	0.00	PROA
2909	ATOM	2909	HD1	LYS	P	189	-5.351	-7.425	-9.732	0.00	0.00	PROA
2910	ATOM	2910	HD2	LYS	P	189	-4.226	-6.950	-11.135	0.00	0.00	PROA
2911	ATOM	2911	CE	LYS	P	189	-6.220	-6.092	-11.130	0.00	0.00	PROA
2912	ATOM	2912	HE1	LYS	P	189	-6.080	-5.075	-11.555	0.00	0.00	PROA
2913	ATOM	2913	HE2	LYS	P	189	-6.954	-6.007	-10.301	0.00	0.00	PROA
2914	ATOM	2914	NZ	LYS	P	189	-6.672	-6.945	-12.236	0.00	0.00	PROA
2915	ATOM	2915	HZ1	LYS	P	189	-6.897	-7.943	-12.046	0.00	0.00	PROA
2916	ATOM	2916	HZ2	LYS	P	189	-6.060	-6.972	-13.076	0.00	0.00	PROA
2917	ATOM	2917	HZ3	LYS	P	189	-7.603	-6.619	-12.565	0.00	0.00	PROA
2918	ATOM	2918	C	LYS	P	189	-2.444	-2.967	-11.712	0.00	0.00	PROA
2919	ATOM	2919	O	LYS	P	189	-1.332	-2.625	-11.249	0.00	0.00	PROA
2920	ATOM	2920	N	VAL	P	190	-3.181	-2.183	-12.546	0.00	0.00	PROA

2921	ATOM	2921	HN	VAL	P	190	-4.030	-2.582	-12.884	0.00	0.00	PROA
2922	ATOM	2922	CA	VAL	P	190	-2.667	-0.979	-13.134	0.00	0.00	PROA
2923	ATOM	2923	HA	VAL	P	190	-1.747	-1.292	-13.604	0.00	0.00	PROA
2924	ATOM	2924	CB	VAL	P	190	-3.674	-0.485	-14.194	0.00	0.00	PROA
2925	ATOM	2925	HB	VAL	P	190	-3.681	-1.280	-14.970	0.00	0.00	PROA
2926	ATOM	2926	CG1	VAL	P	190	-5.146	-0.252	-13.684	0.00	0.00	PROA
2927	ATOM	2927	HG11	VAL	P	190	-5.717	0.343	-14.428	0.00	0.00	PROA
2928	ATOM	2928	HG12	VAL	P	190	-5.192	0.355	-12.754	0.00	0.00	PROA
2929	ATOM	2929	HG13	VAL	P	190	-5.674	-1.214	-13.510	0.00	0.00	PROA
2930	ATOM	2930	CG2	VAL	P	190	-3.178	0.855	-14.792	0.00	0.00	PROA
2931	ATOM	2931	HG21	VAL	P	190	-3.539	1.709	-14.180	0.00	0.00	PROA
2932	ATOM	2932	HG22	VAL	P	190	-3.591	1.019	-15.811	0.00	0.00	PROA
2933	ATOM	2933	HG23	VAL	P	190	-2.068	0.880	-14.824	0.00	0.00	PROA
2934	ATOM	2934	C	VAL	P	190	-2.357	0.057	-12.119	0.00	0.00	PROA
2935	ATOM	2935	O	VAL	P	190	-1.247	0.626	-12.049	0.00	0.00	PROA
2936	ATOM	2936	N	THR	P	191	-3.293	0.404	-11.253	0.00	0.00	PROA
2937	ATOM	2937	HN	THR	P	191	-4.173	-0.062	-11.194	0.00	0.00	PROA
2938	ATOM	2938	CA	THR	P	191	-3.191	1.641	-10.423	0.00	0.00	PROA
2939	ATOM	2939	HA	THR	P	191	-2.275	2.146	-10.693	0.00	0.00	PROA
2940	ATOM	2940	CB	THR	P	191	-4.457	2.592	-10.550	0.00	0.00	PROA
2941	ATOM	2941	HB	THR	P	191	-4.607	2.728	-11.643	0.00	0.00	PROA
2942	ATOM	2942	OG1	THR	P	191	-4.318	3.872	-9.889	0.00	0.00	PROA
2943	ATOM	2943	HG1	THR	P	191	-3.507	4.298	-10.176	0.00	0.00	PROA
2944	ATOM	2944	CG2	THR	P	191	-5.659	1.936	-9.960	0.00	0.00	PROA
2945	ATOM	2945	HG21	THR	P	191	-6.585	2.509	-10.182	0.00	0.00	PROA
2946	ATOM	2946	HG22	THR	P	191	-5.523	1.764	-8.871	0.00	0.00	PROA
2947	ATOM	2947	HG23	THR	P	191	-5.826	0.928	-10.398	0.00	0.00	PROA
2948	ATOM	2948	C	THR	P	191	-3.053	1.269	-8.983	0.00	0.00	PROA
2949	ATOM	2949	O	THR	P	191	-2.820	2.174	-8.166	0.00	0.00	PROA
2950	ATOM	2950	N	ALA	P	192	-3.102	-0.012	-8.652	0.00	0.00	PROA
2951	ATOM	2951	HN	ALA	P	192	-3.146	-0.731	-9.341	0.00	0.00	PROA
2952	ATOM	2952	CA	ALA	P	192	-2.955	-0.498	-7.276	0.00	0.00	PROA
2953	ATOM	2953	HA	ALA	P	192	-2.952	0.355	-6.614	0.00	0.00	PROA
2954	ATOM	2954	CB	ALA	P	192	-4.145	-1.462	-6.986	0.00	0.00	PROA
2955	ATOM	2955	HB1	ALA	P	192	-5.118	-0.927	-6.946	0.00	0.00	PROA
2956	ATOM	2956	HB2	ALA	P	192	-4.035	-1.818	-5.939	0.00	0.00	PROA
2957	ATOM	2957	HB3	ALA	P	192	-4.125	-2.343	-7.663	0.00	0.00	PROA
2958	ATOM	2958	C	ALA	P	192	-1.610	-1.191	-7.044	0.00	0.00	PROA
2959	ATOM	2959	O	ALA	P	192	-1.301	-2.126	-7.712	0.00	0.00	PROA
2960	ATOM	2960	N	GLY	P	193	-0.728	-0.661	-6.189	0.00	0.00	PROA
2961	ATOM	2961	HN	GLY	P	193	-1.271	-0.052	-5.617	0.00	0.00	PROA
2962	ATOM	2962	CA	GLY	P	193	0.681	-1.002	-6.032	0.00	0.00	PROA
2963	ATOM	2963	HA1	GLY	P	193	1.213	-0.224	-5.505	0.00	0.00	PROA
2964	ATOM	2964	HA2	GLY	P	193	1.006	-1.171	-7.048	0.00	0.00	PROA
2965	ATOM	2965	C	GLY	P	193	0.784	-2.226	-5.261	0.00	0.00	PROA
2966	ATOM	2966	O	GLY	P	193	1.829	-2.935	-5.353	0.00	0.00	PROA
2967	ATOM	2967	N	ILE	P	194	-0.198	-2.422	-4.342	0.00	0.00	PROA
2968	ATOM	2968	HN	ILE	P	194	-0.914	-1.731	-4.276	0.00	0.00	PROA
2969	ATOM	2969	CA	ILE	P	194	-0.226	-3.606	-3.574	0.00	0.00	PROA
2970	ATOM	2970	HA	ILE	P	194	0.673	-3.694	-2.981	0.00	0.00	PROA
2971	ATOM	2971	CB	ILE	P	194	-1.290	-3.626	-2.497	0.00	0.00	PROA
2972	ATOM	2972	HB	ILE	P	194	-1.273	-2.693	-1.893	0.00	0.00	PROA
2973	ATOM	2973	CG2	ILE	P	194	-2.757	-3.640	-3.103	0.00	0.00	PROA
2974	ATOM	2974	HG21	ILE	P	194	-2.678	-3.071	-4.054	0.00	0.00	PROA
2975	ATOM	2975	HG22	ILE	P	194	-3.484	-3.179	-2.401	0.00	0.00	PROA
2976	ATOM	2976	HG23	ILE	P	194	-3.063	-4.699	-3.241	0.00	0.00	PROA
2977	ATOM	2977	CG1	ILE	P	194	-1.199	-4.648	-1.365	0.00	0.00	PROA
2978	ATOM	2978	HG11	ILE	P	194	-0.096	-4.760	-1.289	0.00	0.00	PROA
2979	ATOM	2979	HG12	ILE	P	194	-1.634	-5.611	-1.709	0.00	0.00	PROA
2980	ATOM	2980	CD	ILE	P	194	-1.813	-4.225	-0.024	0.00	0.00	PROA
2981	ATOM	2981	HD1	ILE	P	194	-2.903	-4.043	-0.146	0.00	0.00	PROA
2982	ATOM	2982	HD2	ILE	P	194	-1.401	-3.291	0.414	0.00	0.00	PROA
2983	ATOM	2983	HD3	ILE	P	194	-1.650	-5.091	0.652	0.00	0.00	PROA
2984	ATOM	2984	C	ILE	P	194	-0.386	-4.940	-4.433	0.00	0.00	PROA
2985	ATOM	2985	O	ILE	P	194	-0.941	-4.994	-5.520	0.00	0.00	PROA
2986	ATOM	2986	N	SER	P	195	0.230	-6.058	-3.884	0.00	0.00	PROA
2987	ATOM	2987	HN	SER	P	195	0.810	-5.859	-3.098	0.00	0.00	PROA
2988	ATOM	2988	CA	SER	P	195	0.389	-7.410	-4.446	0.00	0.00	PROA
2989	ATOM	2989	HA	SER	P	195	0.634	-7.259	-5.487	0.00	0.00	PROA
2990	ATOM	2990	CB	SER	P	195	1.583	-8.163	-3.953	0.00	0.00	PROA
2991	ATOM	2991	HB1	SER	P	195	1.371	-8.541	-2.930	0.00	0.00	PROA
2992	ATOM	2992	HB2	SER	P	195	2.351	-7.360	-3.966	0.00	0.00	PROA
2993	ATOM	2993	OG	SER	P	195	2.024	-9.105	-4.918	0.00	0.00	PROA

2994	ATOM	2994	HG1	SER	P	195	1.400	-9.833	-4.966	0.00	0.00	PROA
2995	ATOM	2995	C	SER	P	195	-0.874	-8.241	-4.276	0.00	0.00	PROA
2996	ATOM	2996	O	SER	P	195	-1.262	-8.683	-3.251	0.00	0.00	PROA
2997	ATOM	2997	N	PHE	P	196	-1.518	-8.485	-5.434	0.00	0.00	PROA
2998	ATOM	2998	HN	PHE	P	196	-1.198	-8.114	-6.302	0.00	0.00	PROA
2999	ATOM	2999	CA	PHE	P	196	-2.560	-9.424	-5.594	0.00	0.00	PROA
3000	ATOM	3000	HA	PHE	P	196	-3.032	-9.595	-4.638	0.00	0.00	PROA
3001	ATOM	3001	CB	PHE	P	196	-3.822	-8.767	-6.321	0.00	0.00	PROA
3002	ATOM	3002	HB1	PHE	P	196	-4.621	-9.527	-6.459	0.00	0.00	PROA
3003	ATOM	3003	HB2	PHE	P	196	-3.398	-8.328	-7.249	0.00	0.00	PROA
3004	ATOM	3004	CG	PHE	P	196	-4.397	-7.712	-5.487	0.00	0.00	PROA
3005	ATOM	3005	CD1	PHE	P	196	-5.301	-8.051	-4.484	0.00	0.00	PROA
3006	ATOM	3006	HD1	PHE	P	196	-5.463	-9.075	-4.180	0.00	0.00	PROA
3007	ATOM	3007	CE1	PHE	P	196	-5.976	-7.028	-3.814	0.00	0.00	PROA
3008	ATOM	3008	HE1	PHE	P	196	-6.632	-7.253	-2.987	0.00	0.00	PROA
3009	ATOM	3009	CZ	PHE	P	196	-5.910	-5.727	-4.213	0.00	0.00	PROA
3010	ATOM	3010	HZ	PHE	P	196	-6.565	-4.941	-3.869	0.00	0.00	PROA
3011	ATOM	3011	CD2	PHE	P	196	-4.155	-6.313	-5.785	0.00	0.00	PROA
3012	ATOM	3012	HD2	PHE	P	196	-3.516	-6.013	-6.603	0.00	0.00	PROA
3013	ATOM	3013	CE2	PHE	P	196	-4.978	-5.337	-5.185	0.00	0.00	PROA
3014	ATOM	3014	HE2	PHE	P	196	-4.779	-4.302	-5.420	0.00	0.00	PROA
3015	ATOM	3015	C	PHE	P	196	-2.320	-10.773	-6.277	0.00	0.00	PROA
3016	ATOM	3016	O	PHE	P	196	-1.658	-10.896	-7.341	0.00	0.00	PROA
3017	ATOM	3017	N	ALA	P	197	-2.877	-11.890	-5.738	0.00	0.00	PROA
3018	ATOM	3018	HN	ALA	P	197	-3.510	-11.702	-4.991	0.00	0.00	PROA
3019	ATOM	3019	CA	ALA	P	197	-2.766	-13.240	-6.255	0.00	0.00	PROA
3020	ATOM	3020	HA	ALA	P	197	-2.367	-13.162	-7.256	0.00	0.00	PROA
3021	ATOM	3021	CB	ALA	P	197	-1.944	-14.120	-5.389	0.00	0.00	PROA
3022	ATOM	3022	HB1	ALA	P	197	-0.959	-13.634	-5.220	0.00	0.00	PROA
3023	ATOM	3023	HB2	ALA	P	197	-1.606	-15.104	-5.779	0.00	0.00	PROA
3024	ATOM	3024	HB3	ALA	P	197	-2.334	-14.333	-4.370	0.00	0.00	PROA
3025	ATOM	3025	C	ALA	P	197	-4.138	-13.739	-6.497	0.00	0.00	PROA
3026	ATOM	3026	O	ALA	P	197	-5.081	-13.518	-5.753	0.00	0.00	PROA
3027	ATOM	3027	N	ILE	P	198	-4.480	-14.390	-7.680	0.00	0.00	PROA
3028	ATOM	3028	HN	ILE	P	198	-3.740	-14.474	-8.343	0.00	0.00	PROA
3029	ATOM	3029	CA	ILE	P	198	-5.672	-15.239	-7.929	0.00	0.00	PROA
3030	ATOM	3030	HA	ILE	P	198	-6.507	-14.633	-7.609	0.00	0.00	PROA
3031	ATOM	3031	CB	ILE	P	198	-5.873	-15.442	-9.428	0.00	0.00	PROA
3032	ATOM	3032	HB	ILE	P	198	-4.838	-15.639	-9.781	0.00	0.00	PROA
3033	ATOM	3033	CG2	ILE	P	198	-6.906	-16.553	-9.754	0.00	0.00	PROA
3034	ATOM	3034	HG21	ILE	P	198	-7.876	-16.272	-9.291	0.00	0.00	PROA
3035	ATOM	3035	HG22	ILE	P	198	-6.773	-17.613	-9.447	0.00	0.00	PROA
3036	ATOM	3036	HG23	ILE	P	198	-7.071	-16.540	-10.853	0.00	0.00	PROA
3037	ATOM	3037	CG1	ILE	P	198	-6.310	-14.095	-10.092	0.00	0.00	PROA
3038	ATOM	3038	HG11	ILE	P	198	-5.941	-13.267	-9.449	0.00	0.00	PROA
3039	ATOM	3039	HG12	ILE	P	198	-7.393	-13.874	-9.983	0.00	0.00	PROA
3040	ATOM	3040	CD	ILE	P	198	-5.774	-13.810	-11.488	0.00	0.00	PROA
3041	ATOM	3041	HD1	ILE	P	198	-4.666	-13.841	-11.571	0.00	0.00	PROA
3042	ATOM	3042	HD2	ILE	P	198	-6.235	-12.854	-11.815	0.00	0.00	PROA
3043	ATOM	3043	HD3	ILE	P	198	-6.164	-14.643	-12.111	0.00	0.00	PROA
3044	ATOM	3044	C	ILE	P	198	-5.575	-16.499	-7.175	0.00	0.00	PROA
3045	ATOM	3045	O	ILE	P	198	-4.446	-16.962	-7.179	0.00	0.00	PROA
3046	ATOM	3046	N	PRO	P	199	-6.478	-17.090	-6.531	0.00	0.00	PROA
3047	ATOM	3047	CD	PRO	P	199	-7.611	-16.285	-6.030	0.00	0.00	PROA
3048	ATOM	3048	HD1	PRO	P	199	-8.237	-16.032	-6.912	0.00	0.00	PROA
3049	ATOM	3049	HD2	PRO	P	199	-7.365	-15.380	-5.434	0.00	0.00	PROA
3050	ATOM	3050	CA	PRO	P	199	-6.486	-18.419	-5.956	0.00	0.00	PROA
3051	ATOM	3051	HA	PRO	P	199	-5.781	-18.417	-5.138	0.00	0.00	PROA
3052	ATOM	3052	CB	PRO	P	199	-7.980	-18.651	-5.437	0.00	0.00	PROA
3053	ATOM	3053	HB1	PRO	P	199	-7.971	-19.326	-4.554	0.00	0.00	PROA
3054	ATOM	3054	HB2	PRO	P	199	-8.628	-19.111	-6.213	0.00	0.00	PROA
3055	ATOM	3055	CG	PRO	P	199	-8.469	-17.258	-5.152	0.00	0.00	PROA
3056	ATOM	3056	HG1	PRO	P	199	-9.509	-17.130	-5.519	0.00	0.00	PROA
3057	ATOM	3057	HG2	PRO	P	199	-8.411	-16.919	-4.096	0.00	0.00	PROA
3058	ATOM	3058	C	PRO	P	199	-6.067	-19.524	-6.827	0.00	0.00	PROA
3059	ATOM	3059	O	PRO	P	199	-6.526	-19.712	-7.934	0.00	0.00	PROA
3060	ATOM	3060	N	SER	P	200	-5.226	-20.448	-6.317	0.00	0.00	PROA
3061	ATOM	3061	HN	SER	P	200	-4.782	-20.252	-5.446	0.00	0.00	PROA
3062	ATOM	3062	CA	SER	P	200	-4.902	-21.730	-6.906	0.00	0.00	PROA
3063	ATOM	3063	HA	SER	P	200	-4.348	-21.544	-7.814	0.00	0.00	PROA
3064	ATOM	3064	CB	SER	P	200	-3.903	-22.480	-5.920	0.00	0.00	PROA
3065	ATOM	3065	HB1	SER	P	200	-2.897	-22.025	-5.795	0.00	0.00	PROA
3066	ATOM	3066	HB2	SER	P	200	-3.610	-23.443	-6.389	0.00	0.00	PROA

3067	ATOM	3067	OG	SER	P	200	-4.412	-22.536	-4.621	0.00	0.00	PROA
3068	ATOM	3068	HG1	SER	P	200	-4.524	-23.434	-4.301	0.00	0.00	PROA
3069	ATOM	3069	C	SER	P	200	-6.098	-22.574	-7.154	0.00	0.00	PROA
3070	ATOM	3070	O	SER	P	200	-6.130	-23.290	-8.184	0.00	0.00	PROA
3071	ATOM	3071	N	ASP	P	201	-7.066	-22.519	-6.244	0.00	0.00	PROA
3072	ATOM	3072	HN	ASP	P	201	-6.752	-22.330	-5.317	0.00	0.00	PROA
3073	ATOM	3073	CA	ASP	P	201	-8.379	-23.131	-6.369	0.00	0.00	PROA
3074	ATOM	3074	HA	ASP	P	201	-8.360	-24.208	-6.286	0.00	0.00	PROA
3075	ATOM	3075	CB	ASP	P	201	-9.361	-22.574	-5.334	0.00	0.00	PROA
3076	ATOM	3076	HB1	ASP	P	201	-10.368	-23.023	-5.470	0.00	0.00	PROA
3077	ATOM	3077	HB2	ASP	P	201	-9.530	-21.503	-5.573	0.00	0.00	PROA
3078	ATOM	3078	CG	ASP	P	201	-8.919	-22.749	-3.942	0.00	0.00	PROA
3079	ATOM	3079	OD1	ASP	P	201	-9.692	-22.374	-2.988	0.00	0.00	PROA
3080	ATOM	3080	OD2	ASP	P	201	-7.763	-23.288	-3.676	0.00	0.00	PROA
3081	ATOM	3081	C	ASP	P	201	-9.053	-22.867	-7.770	0.00	0.00	PROA
3082	ATOM	3082	O	ASP	P	201	-9.566	-23.758	-8.368	0.00	0.00	PROA
3083	ATOM	3083	N	LYS	P	202	-8.994	-21.620	-8.256	0.00	0.00	PROA
3084	ATOM	3084	HN	LYS	P	202	-8.408	-20.942	-7.817	0.00	0.00	PROA
3085	ATOM	3085	CA	LYS	P	202	-9.644	-21.110	-9.496	0.00	0.00	PROA
3086	ATOM	3086	HA	LYS	P	202	-10.638	-21.525	-9.573	0.00	0.00	PROA
3087	ATOM	3087	CB	LYS	P	202	-9.707	-19.554	-9.558	0.00	0.00	PROA
3088	ATOM	3088	HB1	LYS	P	202	-8.792	-19.137	-9.085	0.00	0.00	PROA
3089	ATOM	3089	HB2	LYS	P	202	-10.506	-19.223	-8.861	0.00	0.00	PROA
3090	ATOM	3090	CG	LYS	P	202	-9.715	-18.921	-11.002	0.00	0.00	PROA
3091	ATOM	3091	HG1	LYS	P	202	-8.788	-19.171	-11.562	0.00	0.00	PROA
3092	ATOM	3092	HG2	LYS	P	202	-9.634	-17.819	-10.885	0.00	0.00	PROA
3093	ATOM	3093	CD	LYS	P	202	-10.910	-19.199	-11.871	0.00	0.00	PROA
3094	ATOM	3094	HD1	LYS	P	202	-10.978	-20.162	-12.420	0.00	0.00	PROA
3095	ATOM	3095	HD2	LYS	P	202	-10.861	-18.492	-12.727	0.00	0.00	PROA
3096	ATOM	3096	CE	LYS	P	202	-12.242	-19.110	-11.137	0.00	0.00	PROA
3097	ATOM	3097	HE1	LYS	P	202	-12.342	-18.132	-10.619	0.00	0.00	PROA
3098	ATOM	3098	HE2	LYS	P	202	-12.360	-19.956	-10.426	0.00	0.00	PROA
3099	ATOM	3099	NZ	LYS	P	202	-13.425	-19.266	-12.035	0.00	0.00	PROA
3100	ATOM	3100	HZ1	LYS	P	202	-13.443	-18.741	-12.932	0.00	0.00	PROA
3101	ATOM	3101	HZ2	LYS	P	202	-14.274	-19.039	-11.478	0.00	0.00	PROA
3102	ATOM	3102	HZ3	LYS	P	202	-13.514	-20.282	-12.239	0.00	0.00	PROA
3103	ATOM	3103	C	LYS	P	202	-8.899	-21.700	-10.727	0.00	0.00	PROA
3104	ATOM	3104	O	LYS	P	202	-9.495	-22.238	-11.648	0.00	0.00	PROA
3105	ATOM	3105	N	ILE	P	203	-7.536	-21.723	-10.662	0.00	0.00	PROA
3106	ATOM	3106	HN	ILE	P	203	-7.086	-21.359	-9.850	0.00	0.00	PROA
3107	ATOM	3107	CA	ILE	P	203	-6.695	-22.423	-11.577	0.00	0.00	PROA
3108	ATOM	3108	HA	ILE	P	203	-6.837	-21.938	-12.532	0.00	0.00	PROA
3109	ATOM	3109	CB	ILE	P	203	-5.236	-22.384	-11.230	0.00	0.00	PROA
3110	ATOM	3110	HB	ILE	P	203	-4.982	-23.048	-10.376	0.00	0.00	PROA
3111	ATOM	3111	CG2	ILE	P	203	-4.520	-22.911	-12.554	0.00	0.00	PROA
3112	ATOM	3112	HG21	ILE	P	203	-4.481	-24.014	-12.688	0.00	0.00	PROA
3113	ATOM	3113	HG22	ILE	P	203	-3.425	-22.723	-12.539	0.00	0.00	PROA
3114	ATOM	3114	HG23	ILE	P	203	-5.030	-22.425	-13.413	0.00	0.00	PROA
3115	ATOM	3115	CG1	ILE	P	203	-4.860	-21.060	-10.732	0.00	0.00	PROA
3116	ATOM	3116	HG11	ILE	P	203	-5.392	-20.808	-9.790	0.00	0.00	PROA
3117	ATOM	3117	HG12	ILE	P	203	-5.060	-20.189	-11.392	0.00	0.00	PROA
3118	ATOM	3118	CD	ILE	P	203	-3.419	-21.102	-10.257	0.00	0.00	PROA
3119	ATOM	3119	HD1	ILE	P	203	-3.167	-22.129	-9.918	0.00	0.00	PROA
3120	ATOM	3120	HD2	ILE	P	203	-3.119	-20.351	-9.496	0.00	0.00	PROA
3121	ATOM	3121	HD3	ILE	P	203	-2.851	-20.786	-11.158	0.00	0.00	PROA
3122	ATOM	3122	C	ILE	P	203	-7.063	-23.906	-11.699	0.00	0.00	PROA
3123	ATOM	3123	O	ILE	P	203	-7.260	-24.378	-12.791	0.00	0.00	PROA
3124	ATOM	3124	N	LYS	P	204	-7.238	-24.609	-10.573	0.00	0.00	PROA
3125	ATOM	3125	HN	LYS	P	204	-7.030	-24.066	-9.762	0.00	0.00	PROA
3126	ATOM	3126	CA	LYS	P	204	-7.567	-25.944	-10.399	0.00	0.00	PROA
3127	ATOM	3127	HA	LYS	P	204	-6.826	-26.465	-10.987	0.00	0.00	PROA
3128	ATOM	3128	CB	LYS	P	204	-7.620	-26.356	-8.923	0.00	0.00	PROA
3129	ATOM	3129	HB1	LYS	P	204	-8.233	-25.705	-8.263	0.00	0.00	PROA
3130	ATOM	3130	HB2	LYS	P	204	-6.559	-26.422	-8.599	0.00	0.00	PROA
3131	ATOM	3131	CG	LYS	P	204	-8.099	-27.750	-8.670	0.00	0.00	PROA
3132	ATOM	3132	HG1	LYS	P	204	-7.520	-28.483	-9.271	0.00	0.00	PROA
3133	ATOM	3133	HG2	LYS	P	204	-9.168	-27.929	-8.916	0.00	0.00	PROA
3134	ATOM	3134	CD	LYS	P	204	-7.932	-28.268	-7.247	0.00	0.00	PROA
3135	ATOM	3135	HD1	LYS	P	204	-7.842	-27.460	-6.489	0.00	0.00	PROA
3136	ATOM	3136	HD2	LYS	P	204	-6.877	-28.618	-7.229	0.00	0.00	PROA
3137	ATOM	3137	CE	LYS	P	204	-8.858	-29.401	-6.994	0.00	0.00	PROA
3138	ATOM	3138	HE1	LYS	P	204	-8.844	-30.189	-7.776	0.00	0.00	PROA
3139	ATOM	3139	HE2	LYS	P	204	-9.864	-28.962	-6.819	0.00	0.00	PROA

3140	ATOM	3140	NZ	LYS	P	204	-8.568	-30.125	-5.708	0.00	0.00	PROA
3141	ATOM	3141	HZ1	LYS	P	204	-9.252	-30.862	-5.442	0.00	0.00	PROA
3142	ATOM	3142	HZ2	LYS	P	204	-8.601	-29.436	-4.929	0.00	0.00	PROA
3143	ATOM	3143	HZ3	LYS	P	204	-7.591	-30.460	-5.829	0.00	0.00	PROA
3144	ATOM	3144	C	LYS	P	204	-8.954	-26.219	-11.026	0.00	0.00	PROA
3145	ATOM	3145	O	LYS	P	204	-9.140	-27.221	-11.788	0.00	0.00	PROA
3146	ATOM	3146	N	LYS	P	205	-9.969	-25.392	-10.777	0.00	0.00	PROA
3147	ATOM	3147	HN	LYS	P	205	-9.774	-24.591	-10.216	0.00	0.00	PROA
3148	ATOM	3148	CA	LYS	P	205	-11.246	-25.483	-11.479	0.00	0.00	PROA
3149	ATOM	3149	HA	LYS	P	205	-11.613	-26.472	-11.247	0.00	0.00	PROA
3150	ATOM	3150	CB	LYS	P	205	-12.279	-24.476	-10.890	0.00	0.00	PROA
3151	ATOM	3151	HB1	LYS	P	205	-11.962	-23.430	-11.092	0.00	0.00	PROA
3152	ATOM	3152	HB2	LYS	P	205	-12.166	-24.593	-9.791	0.00	0.00	PROA
3153	ATOM	3153	CG	LYS	P	205	-13.798	-24.664	-11.306	0.00	0.00	PROA
3154	ATOM	3154	HG1	LYS	P	205	-13.892	-24.590	-12.410	0.00	0.00	PROA
3155	ATOM	3155	HG2	LYS	P	205	-14.335	-23.800	-10.857	0.00	0.00	PROA
3156	ATOM	3156	CD	LYS	P	205	-14.509	-25.908	-10.769	0.00	0.00	PROA
3157	ATOM	3157	HD1	LYS	P	205	-14.326	-26.142	-9.698	0.00	0.00	PROA
3158	ATOM	3158	HD2	LYS	P	205	-14.127	-26.804	-11.303	0.00	0.00	PROA
3159	ATOM	3159	CE	LYS	P	205	-16.083	-25.843	-10.904	0.00	0.00	PROA
3160	ATOM	3160	HE1	LYS	P	205	-16.551	-24.912	-10.522	0.00	0.00	PROA
3161	ATOM	3161	HE2	LYS	P	205	-16.406	-26.729	-10.317	0.00	0.00	PROA
3162	ATOM	3162	NZ	LYS	P	205	-16.527	-26.111	-12.269	0.00	0.00	PROA
3163	ATOM	3163	HZ1	LYS	P	205	-17.532	-26.374	-12.300	0.00	0.00	PROA
3164	ATOM	3164	HZ2	LYS	P	205	-15.855	-26.833	-12.600	0.00	0.00	PROA
3165	ATOM	3165	HZ3	LYS	P	205	-16.329	-25.287	-12.872	0.00	0.00	PROA
3166	ATOM	3166	C	LYS	P	205	-11.105	-25.240	-12.976	0.00	0.00	PROA
3167	ATOM	3167	O	LYS	P	205	-11.592	-26.027	-13.794	0.00	0.00	PROA
3168	ATOM	3168	N	PHE	P	206	-10.312	-24.273	-13.445	0.00	0.00	PROA
3169	ATOM	3169	HN	PHE	P	206	-9.908	-23.705	-12.732	0.00	0.00	PROA
3170	ATOM	3170	CA	PHE	P	206	-10.010	-23.888	-14.828	0.00	0.00	PROA
3171	ATOM	3171	HA	PHE	P	206	-10.987	-23.728	-15.261	0.00	0.00	PROA
3172	ATOM	3172	CB	PHE	P	206	-9.225	-22.504	-14.780	0.00	0.00	PROA
3173	ATOM	3173	HB1	PHE	P	206	-8.294	-22.548	-14.176	0.00	0.00	PROA
3174	ATOM	3174	HB2	PHE	P	206	-9.819	-21.752	-14.220	0.00	0.00	PROA
3175	ATOM	3175	CG	PHE	P	206	-8.852	-22.004	-16.092	0.00	0.00	PROA
3176	ATOM	3176	CD1	PHE	P	206	-9.469	-20.885	-16.679	0.00	0.00	PROA
3177	ATOM	3177	HD1	PHE	P	206	-10.234	-20.336	-16.150	0.00	0.00	PROA
3178	ATOM	3178	CE1	PHE	P	206	-9.039	-20.462	-17.923	0.00	0.00	PROA
3179	ATOM	3179	HE1	PHE	P	206	-9.470	-19.647	-18.486	0.00	0.00	PROA
3180	ATOM	3180	CZ	PHE	P	206	-7.958	-21.153	-18.597	0.00	0.00	PROA
3181	ATOM	3181	HZ	PHE	P	206	-7.763	-20.974	-19.644	0.00	0.00	PROA
3182	ATOM	3182	CD2	PHE	P	206	-7.691	-22.631	-16.644	0.00	0.00	PROA
3183	ATOM	3183	HD2	PHE	P	206	-7.076	-23.368	-16.149	0.00	0.00	PROA
3184	ATOM	3184	CE2	PHE	P	206	-7.332	-22.198	-17.908	0.00	0.00	PROA
3185	ATOM	3185	HE2	PHE	P	206	-6.575	-22.826	-18.353	0.00	0.00	PROA
3186	ATOM	3186	C	PHE	P	206	-9.377	-25.040	-15.571	0.00	0.00	PROA
3187	ATOM	3187	O	PHE	P	206	-9.758	-25.279	-16.686	0.00	0.00	PROA
3188	ATOM	3188	N	LEU	P	207	-8.491	-25.728	-14.934	0.00	0.00	PROA
3189	ATOM	3189	HN	LEU	P	207	-8.081	-25.319	-14.122	0.00	0.00	PROA
3190	ATOM	3190	CA	LEU	P	207	-7.895	-26.991	-15.335	0.00	0.00	PROA
3191	ATOM	3191	HA	LEU	P	207	-7.553	-26.939	-16.358	0.00	0.00	PROA
3192	ATOM	3192	CB	LEU	P	207	-6.628	-27.427	-14.512	0.00	0.00	PROA
3193	ATOM	3193	HB1	LEU	P	207	-6.358	-28.487	-14.708	0.00	0.00	PROA
3194	ATOM	3194	HB2	LEU	P	207	-6.984	-27.403	-13.459	0.00	0.00	PROA
3195	ATOM	3195	CG	LEU	P	207	-5.457	-26.489	-14.704	0.00	0.00	PROA
3196	ATOM	3196	HG	LEU	P	207	-5.795	-25.430	-14.712	0.00	0.00	PROA
3197	ATOM	3197	CD1	LEU	P	207	-4.601	-26.593	-13.450	0.00	0.00	PROA
3198	ATOM	3198	HD11	LEU	P	207	-4.092	-27.580	-13.494	0.00	0.00	PROA
3199	ATOM	3199	HD12	LEU	P	207	-5.220	-26.696	-12.533	0.00	0.00	PROA
3200	ATOM	3200	HD13	LEU	P	207	-3.806	-25.833	-13.605	0.00	0.00	PROA
3201	ATOM	3201	CD2	LEU	P	207	-4.693	-26.878	-15.960	0.00	0.00	PROA
3202	ATOM	3202	HD21	LEU	P	207	-5.439	-26.891	-16.782	0.00	0.00	PROA
3203	ATOM	3203	HD22	LEU	P	207	-4.250	-27.888	-15.828	0.00	0.00	PROA
3204	ATOM	3204	HD23	LEU	P	207	-4.026	-26.031	-16.228	0.00	0.00	PROA
3205	ATOM	3205	C	LEU	P	207	-8.822	-28.067	-15.493	0.00	0.00	PROA
3206	ATOM	3206	O	LEU	P	207	-8.786	-28.785	-16.548	0.00	0.00	PROA
3207	ATOM	3207	N	THR	P	208	-9.660	-28.301	-14.439	0.00	0.00	PROA
3208	ATOM	3208	HN	THR	P	208	-9.461	-27.740	-13.639	0.00	0.00	PROA
3209	ATOM	3209	CA	THR	P	208	-10.569	-29.427	-14.461	0.00	0.00	PROA
3210	ATOM	3210	HA	THR	P	208	-10.008	-30.304	-14.750	0.00	0.00	PROA
3211	ATOM	3211	CB	THR	P	208	-11.294	-29.641	-13.096	0.00	0.00	PROA
3212	ATOM	3212	HB	THR	P	208	-11.849	-28.699	-12.897	0.00	0.00	PROA

3213	ATOM	3213	OG1	THR	P	208	-10.254	-29.838	-12.167	0.00	0.00	PROA
3214	ATOM	3214	HG1	THR	P	208	-9.798	-28.994	-12.134	0.00	0.00	PROA
3215	ATOM	3215	CG2	THR	P	208	-12.262	-30.890	-13.026	0.00	0.00	PROA
3216	ATOM	3216	HG21	THR	P	208	-13.230	-30.829	-13.570	0.00	0.00	PROA
3217	ATOM	3217	HG22	THR	P	208	-12.561	-31.102	-11.977	0.00	0.00	PROA
3218	ATOM	3218	HG23	THR	P	208	-11.774	-31.836	-13.342	0.00	0.00	PROA
3219	ATOM	3219	C	THR	P	208	-11.603	-29.327	-15.508	0.00	0.00	PROA
3220	ATOM	3220	O	THR	P	208	-11.803	-30.365	-16.226	0.00	0.00	PROA
3221	ATOM	3221	N	GLU	P	209	-12.105	-28.091	-15.662	0.00	0.00	PROA
3222	ATOM	3222	HN	GLU	P	209	-11.755	-27.384	-15.053	0.00	0.00	PROA
3223	ATOM	3223	CA	GLU	P	209	-13.085	-27.672	-16.684	0.00	0.00	PROA
3224	ATOM	3224	HA	GLU	P	209	-13.972	-28.274	-16.557	0.00	0.00	PROA
3225	ATOM	3225	CB	GLU	P	209	-13.616	-26.189	-16.448	0.00	0.00	PROA
3226	ATOM	3226	HB1	GLU	P	209	-14.316	-26.086	-17.305	0.00	0.00	PROA
3227	ATOM	3227	HB2	GLU	P	209	-12.776	-25.463	-16.482	0.00	0.00	PROA
3228	ATOM	3228	CG	GLU	P	209	-14.526	-25.968	-15.164	0.00	0.00	PROA
3229	ATOM	3229	HG1	GLU	P	209	-13.948	-26.307	-14.278	0.00	0.00	PROA
3230	ATOM	3230	HG2	GLU	P	209	-15.454	-26.554	-15.332	0.00	0.00	PROA
3231	ATOM	3231	CD	GLU	P	209	-14.920	-24.531	-14.849	0.00	0.00	PROA
3232	ATOM	3232	OE1	GLU	P	209	-14.224	-23.513	-15.097	0.00	0.00	PROA
3233	ATOM	3233	OE2	GLU	P	209	-16.098	-24.420	-14.337	0.00	0.00	PROA
3234	ATOM	3234	C	GLU	P	209	-12.540	-27.811	-18.140	0.00	0.00	PROA
3235	ATOM	3235	O	GLU	P	209	-13.095	-28.397	-19.081	0.00	0.00	PROA
3236	ATOM	3236	N	SER	P	210	-11.315	-27.337	-18.296	0.00	0.00	PROA
3237	ATOM	3237	HN	SER	P	210	-10.901	-26.774	-17.584	0.00	0.00	PROA
3238	ATOM	3238	CA	SER	P	210	-10.545	-27.451	-19.549	0.00	0.00	PROA
3239	ATOM	3239	HA	SER	P	210	-11.065	-26.948	-20.351	0.00	0.00	PROA
3240	ATOM	3240	CB	SER	P	210	-9.085	-26.793	-19.461	0.00	0.00	PROA
3241	ATOM	3241	HB1	SER	P	210	-8.614	-27.095	-18.501	0.00	0.00	PROA
3242	ATOM	3242	HB2	SER	P	210	-9.232	-25.694	-19.525	0.00	0.00	PROA
3243	ATOM	3243	OG	SER	P	210	-8.177	-26.990	-20.542	0.00	0.00	PROA
3244	ATOM	3244	HG1	SER	P	210	-7.574	-27.673	-20.241	0.00	0.00	PROA
3245	ATOM	3245	C	SER	P	210	-10.418	-28.898	-20.016	0.00	0.00	PROA
3246	ATOM	3246	O	SER	P	210	-10.783	-29.248	-21.118	0.00	0.00	PROA
3247	ATOM	3247	N	HSD	P	211	-10.002	-29.819	-19.100	0.00	0.00	PROA
3248	ATOM	3248	HN	HSD	P	211	-9.672	-29.542	-18.201	0.00	0.00	PROA
3249	ATOM	3249	CA	HSD	P	211	-9.930	-31.303	-19.322	0.00	0.00	PROA
3250	ATOM	3250	HA	HSD	P	211	-9.225	-31.508	-20.114	0.00	0.00	PROA
3251	ATOM	3251	CB	HSD	P	211	-9.226	-31.889	-18.060	0.00	0.00	PROA
3252	ATOM	3252	HB1	HSD	P	211	-9.465	-32.973	-17.999	0.00	0.00	PROA
3253	ATOM	3253	HB2	HSD	P	211	-9.671	-31.419	-17.158	0.00	0.00	PROA
3254	ATOM	3254	ND1	HSD	P	211	-6.978	-32.101	-19.243	0.00	0.00	PROA
3255	ATOM	3255	HD1	HSD	P	211	-7.369	-32.663	-19.972	0.00	0.00	PROA
3256	ATOM	3256	CG	HSD	P	211	-7.699	-31.568	-18.198	0.00	0.00	PROA
3257	ATOM	3257	CE1	HSD	P	211	-5.697	-31.908	-19.015	0.00	0.00	PROA
3258	ATOM	3258	HE1	HSD	P	211	-4.954	-32.330	-19.692	0.00	0.00	PROA
3259	ATOM	3259	NE2	HSD	P	211	-5.528	-31.238	-17.887	0.00	0.00	PROA
3260	ATOM	3260	CD2	HSD	P	211	-6.799	-31.033	-17.357	0.00	0.00	PROA
3261	ATOM	3261	HD2	HSD	P	211	-7.090	-30.594	-16.411	0.00	0.00	PROA
3262	ATOM	3262	C	HSD	P	211	-11.239	-31.927	-19.804	0.00	0.00	PROA
3263	ATOM	3263	O	HSD	P	211	-11.183	-32.822	-20.638	0.00	0.00	PROA
3264	ATOM	3264	N	ASP	P	212	-12.340	-31.503	-19.214	0.00	0.00	PROA
3265	ATOM	3265	HN	ASP	P	212	-12.418	-30.650	-18.703	0.00	0.00	PROA
3266	ATOM	3266	CA	ASP	P	212	-13.706	-31.992	-19.595	0.00	0.00	PROA
3267	ATOM	3267	HA	ASP	P	212	-13.665	-33.066	-19.696	0.00	0.00	PROA
3268	ATOM	3268	CB	ASP	P	212	-14.735	-31.277	-18.700	0.00	0.00	PROA
3269	ATOM	3269	HB1	ASP	P	212	-14.824	-30.209	-18.991	0.00	0.00	PROA
3270	ATOM	3270	HB2	ASP	P	212	-14.474	-31.392	-17.626	0.00	0.00	PROA
3271	ATOM	3271	CG	ASP	P	212	-16.149	-31.946	-18.825	0.00	0.00	PROA
3272	ATOM	3272	OD1	ASP	P	212	-16.278	-33.197	-19.044	0.00	0.00	PROA
3273	ATOM	3273	OD2	ASP	P	212	-17.146	-31.109	-18.848	0.00	0.00	PROA
3274	ATOM	3274	C	ASP	P	212	-13.996	-31.620	-21.091	0.00	0.00	PROA
3275	ATOM	3275	O	ASP	P	212	-14.567	-32.361	-21.816	0.00	0.00	PROA
3276	ATOM	3276	N	ARG	P	213	-13.529	-30.418	-21.461	0.00	0.00	PROA
3277	ATOM	3277	HN	ARG	P	213	-13.064	-29.861	-20.777	0.00	0.00	PROA
3278	ATOM	3278	CA	ARG	P	213	-13.707	-29.914	-22.874	0.00	0.00	PROA
3279	ATOM	3279	HA	ARG	P	213	-14.652	-30.343	-23.174	0.00	0.00	PROA
3280	ATOM	3280	CB	ARG	P	213	-13.492	-28.394	-23.030	0.00	0.00	PROA
3281	ATOM	3281	HB1	ARG	P	213	-13.529	-28.173	-24.118	0.00	0.00	PROA
3282	ATOM	3282	HB2	ARG	P	213	-12.482	-28.133	-22.648	0.00	0.00	PROA
3283	ATOM	3283	CG	ARG	P	213	-14.608	-27.663	-22.292	0.00	0.00	PROA
3284	ATOM	3284	HG1	ARG	P	213	-14.676	-27.985	-21.231	0.00	0.00	PROA
3285	ATOM	3285	HG2	ARG	P	213	-15.433	-28.171	-22.835	0.00	0.00	PROA

3286	ATOM	3286	CD	ARG	P	213	-14.756	-26.132	-22.528	0.00	0.00	PROA
3287	ATOM	3287	HD1	ARG	P	213	-15.680	-25.769	-22.029	0.00	0.00	PROA
3288	ATOM	3288	HD2	ARG	P	213	-14.910	-25.933	-23.610	0.00	0.00	PROA
3289	ATOM	3289	NE	ARG	P	213	-13.538	-25.482	-22.019	0.00	0.00	PROA
3290	ATOM	3290	HE	ARG	P	213	-12.819	-25.258	-22.676	0.00	0.00	PROA
3291	ATOM	3291	CZ	ARG	P	213	-13.303	-24.965	-20.832	0.00	0.00	PROA
3292	ATOM	3292	NH1	ARG	P	213	-14.191	-24.894	-19.893	0.00	0.00	PROA
3293	ATOM	3293	HH11	ARG	P	213	-15.062	-25.355	-20.062	0.00	0.00	PROA
3294	ATOM	3294	HH12	ARG	P	213	-14.029	-24.390	-19.044	0.00	0.00	PROA
3295	ATOM	3295	NH2	ARG	P	213	-12.169	-24.442	-20.566	0.00	0.00	PROA
3296	ATOM	3296	HH21	ARG	P	213	-11.443	-24.381	-21.251	0.00	0.00	PROA
3297	ATOM	3297	HH22	ARG	P	213	-12.048	-23.994	-19.680	0.00	0.00	PROA
3298	ATOM	3298	C	ARG	P	213	-12.797	-30.623	-23.912	0.00	0.00	PROA
3299	ATOM	3299	O	ARG	P	213	-13.258	-30.843	-25.054	0.00	0.00	PROA
3300	ATOM	3300	N	GLN	P	214	-11.599	-31.103	-23.512	0.00	0.00	PROA
3301	ATOM	3301	HN	GLN	P	214	-11.259	-31.042	-22.577	0.00	0.00	PROA
3302	ATOM	3302	CA	GLN	P	214	-10.717	-31.754	-24.466	0.00	0.00	PROA
3303	ATOM	3303	HA	GLN	P	214	-10.850	-31.460	-25.496	0.00	0.00	PROA
3304	ATOM	3304	CB	GLN	P	214	-9.238	-31.443	-24.225	0.00	0.00	PROA
3305	ATOM	3305	HB1	GLN	P	214	-8.671	-32.019	-24.987	0.00	0.00	PROA
3306	ATOM	3306	HB2	GLN	P	214	-8.965	-31.766	-23.198	0.00	0.00	PROA
3307	ATOM	3307	CG	GLN	P	214	-9.104	-29.916	-24.426	0.00	0.00	PROA
3308	ATOM	3308	HG1	GLN	P	214	-9.876	-29.288	-23.933	0.00	0.00	PROA
3309	ATOM	3309	HG2	GLN	P	214	-9.164	-29.671	-25.508	0.00	0.00	PROA
3310	ATOM	3310	CD	GLN	P	214	-7.762	-29.407	-23.733	0.00	0.00	PROA
3311	ATOM	3311	OE1	GLN	P	214	-6.757	-29.029	-24.344	0.00	0.00	PROA
3312	ATOM	3312	NE2	GLN	P	214	-7.899	-29.274	-22.394	0.00	0.00	PROA
3313	ATOM	3313	HE21	GLN	P	214	-7.095	-29.072	-21.835	0.00	0.00	PROA
3314	ATOM	3314	HE22	GLN	P	214	-8.698	-29.648	-21.923	0.00	0.00	PROA
3315	ATOM	3315	C	GLN	P	214	-10.912	-33.290	-24.462	0.00	0.00	PROA
3316	ATOM	3316	O	GLN	P	214	-10.640	-33.946	-25.446	0.00	0.00	PROA
3317	ATOM	3317	N	ALA	P	215	-11.408	-33.851	-23.307	0.00	0.00	PROA
3318	ATOM	3318	HN	ALA	P	215	-11.713	-33.279	-22.550	0.00	0.00	PROA
3319	ATOM	3319	CA	ALA	P	215	-11.439	-35.281	-23.172	0.00	0.00	PROA
3320	ATOM	3320	HA	ALA	P	215	-10.935	-35.671	-24.044	0.00	0.00	PROA
3321	ATOM	3321	CB	ALA	P	215	-10.563	-35.758	-21.984	0.00	0.00	PROA
3322	ATOM	3322	HB1	ALA	P	215	-10.288	-36.834	-21.992	0.00	0.00	PROA
3323	ATOM	3323	HB2	ALA	P	215	-10.939	-35.473	-20.978	0.00	0.00	PROA
3324	ATOM	3324	HB3	ALA	P	215	-9.609	-35.189	-21.996	0.00	0.00	PROA
3325	ATOM	3325	C	ALA	P	215	-12.812	-35.815	-23.010	0.00	0.00	PROA
3326	ATOM	3326	O	ALA	P	215	-13.764	-35.068	-22.700	0.00	0.00	PROA
3327	ATOM	3327	N	LYS	P	216	-13.008	-37.132	-23.176	0.00	0.00	PROA
3328	ATOM	3328	HN	LYS	P	216	-12.258	-37.668	-23.556	0.00	0.00	PROA
3329	ATOM	3329	CA	LYS	P	216	-14.247	-37.864	-22.847	0.00	0.00	PROA
3330	ATOM	3330	HA	LYS	P	216	-15.117	-37.263	-22.626	0.00	0.00	PROA
3331	ATOM	3331	CB	LYS	P	216	-14.568	-38.917	-23.978	0.00	0.00	PROA
3332	ATOM	3332	HB1	LYS	P	216	-15.506	-39.477	-23.775	0.00	0.00	PROA
3333	ATOM	3333	HB2	LYS	P	216	-13.747	-39.664	-24.027	0.00	0.00	PROA
3334	ATOM	3334	CG	LYS	P	216	-14.735	-38.224	-25.370	0.00	0.00	PROA
3335	ATOM	3335	HG1	LYS	P	216	-15.025	-39.017	-26.093	0.00	0.00	PROA
3336	ATOM	3336	HG2	LYS	P	216	-13.794	-37.750	-25.721	0.00	0.00	PROA
3337	ATOM	3337	CD	LYS	P	216	-15.743	-37.064	-25.430	0.00	0.00	PROA
3338	ATOM	3338	HD1	LYS	P	216	-15.594	-36.535	-26.396	0.00	0.00	PROA
3339	ATOM	3339	HD2	LYS	P	216	-15.416	-36.298	-24.695	0.00	0.00	PROA
3340	ATOM	3340	CE	LYS	P	216	-17.260	-37.323	-25.148	0.00	0.00	PROA
3341	ATOM	3341	HE1	LYS	P	216	-17.830	-36.375	-25.254	0.00	0.00	PROA
3342	ATOM	3342	HE2	LYS	P	216	-17.600	-37.808	-24.208	0.00	0.00	PROA
3343	ATOM	3343	NZ	LYS	P	216	-17.747	-38.231	-26.175	0.00	0.00	PROA
3344	ATOM	3344	HZ1	LYS	P	216	-17.274	-39.146	-26.032	0.00	0.00	PROA
3345	ATOM	3345	HZ2	LYS	P	216	-17.543	-37.902	-27.140	0.00	0.00	PROA
3346	ATOM	3346	HZ3	LYS	P	216	-18.775	-38.392	-26.205	0.00	0.00	PROA
3347	ATOM	3347	C	LYS	P	216	-14.040	-38.598	-21.555	0.00	0.00	PROA
3348	ATOM	3348	OT1	LYS	P	216	-12.859	-38.828	-21.161	0.00	0.00	PROA
3349	ATOM	3349	OT2	LYS	P	216	-15.065	-38.790	-20.799	0.00	0.00	PROA
3350	ATOM	3350	CAY	LYS	P	217	14.788	-15.591	-6.202	0.00	0.00	PROB
3351	ATOM	3351	HY1	LYS	P	217	14.320	-16.574	-5.978	0.00	0.00	PROB
3352	ATOM	3352	HY2	LYS	P	217	15.673	-15.978	-6.750	0.00	0.00	PROB
3353	ATOM	3353	HY3	LYS	P	217	14.156	-14.875	-6.769	0.00	0.00	PROB
3354	ATOM	3354	CY	LYS	P	217	15.272	-14.840	-4.938	0.00	0.00	PROB
3355	ATOM	3355	OY	LYS	P	217	15.143	-15.297	-3.827	0.00	0.00	PROB
3356	ATOM	3356	N	LYS	P	217	15.930	-13.682	-5.071	0.00	0.00	PROB
3357	ATOM	3357	HN	LYS	P	217	16.035	-13.423	-6.028	0.00	0.00	PROB
3358	ATOM	3358	CA	LYS	P	217	16.255	-12.723	-4.052	0.00	0.00	PROB

3359	ATOM	3359	HA	LYS	P	217	16.415	-13.315	-3.163	0.00	0.00	PROB
3360	ATOM	3360	CB	LYS	P	217	17.575	-12.027	-4.242	0.00	0.00	PROB
3361	ATOM	3361	HB1	LYS	P	217	17.601	-11.297	-3.405	0.00	0.00	PROB
3362	ATOM	3362	HB2	LYS	P	217	17.574	-11.386	-5.150	0.00	0.00	PROB
3363	ATOM	3363	CG	LYS	P	217	18.838	-12.904	-4.251	0.00	0.00	PROB
3364	ATOM	3364	HG1	LYS	P	217	18.844	-13.651	-5.073	0.00	0.00	PROB
3365	ATOM	3365	HG2	LYS	P	217	18.778	-13.449	-3.284	0.00	0.00	PROB
3366	ATOM	3366	CD	LYS	P	217	20.142	-12.066	-4.403	0.00	0.00	PROB
3367	ATOM	3367	HD1	LYS	P	217	19.979	-11.117	-3.848	0.00	0.00	PROB
3368	ATOM	3368	HD2	LYS	P	217	20.214	-11.783	-5.475	0.00	0.00	PROB
3369	ATOM	3369	CE	LYS	P	217	21.335	-12.838	-3.898	0.00	0.00	PROB
3370	ATOM	3370	HE1	LYS	P	217	21.141	-13.917	-4.079	0.00	0.00	PROB
3371	ATOM	3371	HE2	LYS	P	217	21.492	-12.745	-2.803	0.00	0.00	PROB
3372	ATOM	3372	NZ	LYS	P	217	22.616	-12.454	-4.606	0.00	0.00	PROB
3373	ATOM	3373	HZ1	LYS	P	217	22.858	-11.480	-4.333	0.00	0.00	PROB
3374	ATOM	3374	HZ2	LYS	P	217	22.512	-12.528	-5.638	0.00	0.00	PROB
3375	ATOM	3375	HZ3	LYS	P	217	23.361	-13.079	-4.237	0.00	0.00	PROB
3376	ATOM	3376	C	LYS	P	217	15.139	-11.688	-3.809	0.00	0.00	PROB
3377	ATOM	3377	O	LYS	P	217	14.433	-11.274	-4.732	0.00	0.00	PROB
3378	ATOM	3378	N	VAL	P	218	15.008	-11.197	-2.576	0.00	0.00	PROB
3379	ATOM	3379	HN	VAL	P	218	15.604	-11.642	-1.912	0.00	0.00	PROB
3380	ATOM	3380	CA	VAL	P	218	14.007	-10.247	-2.168	0.00	0.00	PROB
3381	ATOM	3381	HA	VAL	P	218	13.123	-10.367	-2.777	0.00	0.00	PROB
3382	ATOM	3382	CB	VAL	P	218	13.585	-10.486	-0.631	0.00	0.00	PROB
3383	ATOM	3383	HB	VAL	P	218	14.525	-10.465	-0.039	0.00	0.00	PROB
3384	ATOM	3384	CG1	VAL	P	218	12.521	-9.584	-0.009	0.00	0.00	PROB
3385	ATOM	3385	HG11	VAL	P	218	13.021	-8.599	0.104	0.00	0.00	PROB
3386	ATOM	3386	HG12	VAL	P	218	12.069	-10.016	0.909	0.00	0.00	PROB
3387	ATOM	3387	HG13	VAL	P	218	11.819	-9.397	-0.850	0.00	0.00	PROB
3388	ATOM	3388	CG2	VAL	P	218	13.084	-11.945	-0.461	0.00	0.00	PROB
3389	ATOM	3389	HG21	VAL	P	218	12.303	-12.099	-1.236	0.00	0.00	PROB
3390	ATOM	3390	HG22	VAL	P	218	12.528	-11.963	0.500	0.00	0.00	PROB
3391	ATOM	3391	HG23	VAL	P	218	13.871	-12.721	-0.348	0.00	0.00	PROB
3392	ATOM	3392	C	VAL	P	218	14.389	-8.761	-2.336	0.00	0.00	PROB
3393	ATOM	3393	O	VAL	P	218	15.468	-8.352	-1.876	0.00	0.00	PROB
3394	ATOM	3394	N	GLY	P	219	13.561	-7.920	-2.996	0.00	0.00	PROB
3395	ATOM	3395	HN	GLY	P	219	12.731	-8.287	-3.409	0.00	0.00	PROB
3396	ATOM	3396	CA	GLY	P	219	13.813	-6.434	-3.092	0.00	0.00	PROB
3397	ATOM	3397	HA1	GLY	P	219	13.948	-5.945	-2.139	0.00	0.00	PROB
3398	ATOM	3398	HA2	GLY	P	219	12.934	-6.084	-3.613	0.00	0.00	PROB
3399	ATOM	3399	C	GLY	P	219	15.015	-6.044	-3.998	0.00	0.00	PROB
3400	ATOM	3400	O	GLY	P	219	15.768	-6.910	-4.391	0.00	0.00	PROB
3401	ATOM	3401	N	LEU	P	220	15.210	-4.753	-4.315	0.00	0.00	PROB
3402	ATOM	3402	HN	LEU	P	220	14.661	-4.052	-3.867	0.00	0.00	PROB
3403	ATOM	3403	CA	LEU	P	220	16.435	-4.384	-5.149	0.00	0.00	PROB
3404	ATOM	3404	HA	LEU	P	220	16.432	-5.060	-5.991	0.00	0.00	PROB
3405	ATOM	3405	CB	LEU	P	220	16.312	-2.938	-5.720	0.00	0.00	PROB
3406	ATOM	3406	HB1	LEU	P	220	17.011	-2.761	-6.565	0.00	0.00	PROB
3407	ATOM	3407	HB2	LEU	P	220	16.517	-2.263	-4.861	0.00	0.00	PROB
3408	ATOM	3408	CG	LEU	P	220	14.954	-2.491	-6.282	0.00	0.00	PROB
3409	ATOM	3409	HG	LEU	P	220	14.298	-2.424	-5.388	0.00	0.00	PROB
3410	ATOM	3410	CD1	LEU	P	220	15.003	-1.013	-6.858	0.00	0.00	PROB
3411	ATOM	3411	HD11	LEU	P	220	14.152	-0.955	-7.569	0.00	0.00	PROB
3412	ATOM	3412	HD12	LEU	P	220	15.866	-1.174	-7.539	0.00	0.00	PROB
3413	ATOM	3413	HD13	LEU	P	220	15.122	-0.244	-6.065	0.00	0.00	PROB
3414	ATOM	3414	CD2	LEU	P	220	14.349	-3.459	-7.333	0.00	0.00	PROB
3415	ATOM	3415	HD21	LEU	P	220	13.402	-3.005	-7.697	0.00	0.00	PROB
3416	ATOM	3416	HD22	LEU	P	220	14.199	-4.418	-6.793	0.00	0.00	PROB
3417	ATOM	3417	HD23	LEU	P	220	15.066	-3.535	-8.178	0.00	0.00	PROB
3418	ATOM	3418	C	LEU	P	220	17.690	-4.389	-4.399	0.00	0.00	PROB
3419	ATOM	3419	O	LEU	P	220	17.694	-4.434	-3.149	0.00	0.00	PROB
3420	ATOM	3420	N	ALA	P	221	18.869	-4.492	-5.105	0.00	0.00	PROB
3421	ATOM	3421	HN	ALA	P	221	18.826	-4.586	-6.097	0.00	0.00	PROB
3422	ATOM	3422	CA	ALA	P	221	20.104	-4.858	-4.463	0.00	0.00	PROB
3423	ATOM	3423	HA	ALA	P	221	19.989	-4.880	-3.389	0.00	0.00	PROB
3424	ATOM	3424	CB	ALA	P	221	20.741	-6.082	-5.089	0.00	0.00	PROB
3425	ATOM	3425	HB1	ALA	P	221	20.835	-6.023	-6.194	0.00	0.00	PROB
3426	ATOM	3426	HB2	ALA	P	221	20.146	-6.974	-4.799	0.00	0.00	PROB
3427	ATOM	3427	HB3	ALA	P	221	21.731	-6.246	-4.613	0.00	0.00	PROB
3428	ATOM	3428	C	ALA	P	221	20.968	-3.702	-4.795	0.00	0.00	PROB
3429	ATOM	3429	O	ALA	P	221	20.712	-2.949	-5.742	0.00	0.00	PROB
3430	ATOM	3430	N	LEU	P	222	22.075	-3.534	-4.048	0.00	0.00	PROB
3431	ATOM	3431	HN	LEU	P	222	22.192	-4.177	-3.295	0.00	0.00	PROB

3432	ATOM	3432	CA	LEU	P	222	22.987	-2.394	-4.169	0.00	0.00	PROB
3433	ATOM	3433	HA	LEU	P	222	22.411	-1.514	-3.923	0.00	0.00	PROB
3434	ATOM	3434	CB	LEU	P	222	24.186	-2.453	-3.192	0.00	0.00	PROB
3435	ATOM	3435	HB1	LEU	P	222	24.770	-1.512	-3.274	0.00	0.00	PROB
3436	ATOM	3436	HB2	LEU	P	222	24.829	-3.321	-3.453	0.00	0.00	PROB
3437	ATOM	3437	CG	LEU	P	222	23.772	-2.505	-1.699	0.00	0.00	PROB
3438	ATOM	3438	HG	LEU	P	222	23.234	-3.422	-1.376	0.00	0.00	PROB
3439	ATOM	3439	CD1	LEU	P	222	25.041	-2.624	-0.760	0.00	0.00	PROB
3440	ATOM	3440	HD11	LEU	P	222	24.687	-2.600	0.293	0.00	0.00	PROB
3441	ATOM	3441	HD12	LEU	P	222	25.695	-1.759	-1.001	0.00	0.00	PROB
3442	ATOM	3442	HD13	LEU	P	222	25.557	-3.582	-0.986	0.00	0.00	PROB
3443	ATOM	3443	CD2	LEU	P	222	22.901	-1.342	-1.294	0.00	0.00	PROB
3444	ATOM	3444	HD21	LEU	P	222	21.852	-1.704	-1.359	0.00	0.00	PROB
3445	ATOM	3445	HD22	LEU	P	222	22.936	-0.398	-1.878	0.00	0.00	PROB
3446	ATOM	3446	HD23	LEU	P	222	23.083	-1.060	-0.235	0.00	0.00	PROB
3447	ATOM	3447	C	LEU	P	222	23.625	-2.301	-5.586	0.00	0.00	PROB
3448	ATOM	3448	O	LEU	P	222	23.768	-3.227	-6.326	0.00	0.00	PROB
3449	ATOM	3449	N	GLU	P	223	24.032	-1.122	-6.024	0.00	0.00	PROB
3450	ATOM	3450	HN	GLU	P	223	23.884	-0.281	-5.510	0.00	0.00	PROB
3451	ATOM	3451	CA	GLU	P	223	24.259	-0.876	-7.441	0.00	0.00	PROB
3452	ATOM	3452	HA	GLU	P	223	23.634	-1.466	-8.094	0.00	0.00	PROB
3453	ATOM	3453	CB	GLU	P	223	23.906	0.600	-7.827	0.00	0.00	PROB
3454	ATOM	3454	HB1	GLU	P	223	24.324	0.882	-8.817	0.00	0.00	PROB
3455	ATOM	3455	HB2	GLU	P	223	24.463	1.202	-7.078	0.00	0.00	PROB
3456	ATOM	3456	CG	GLU	P	223	22.366	0.987	-7.849	0.00	0.00	PROB
3457	ATOM	3457	HG1	GLU	P	223	22.132	2.070	-7.766	0.00	0.00	PROB
3458	ATOM	3458	HG2	GLU	P	223	21.779	0.489	-7.048	0.00	0.00	PROB
3459	ATOM	3459	CD	GLU	P	223	21.653	0.690	-9.220	0.00	0.00	PROB
3460	ATOM	3460	OE1	GLU	P	223	21.719	-0.471	-9.686	0.00	0.00	PROB
3461	ATOM	3461	OE2	GLU	P	223	21.038	1.596	-9.812	0.00	0.00	PROB
3462	ATOM	3462	C	GLU	P	223	25.752	-1.053	-7.800	0.00	0.00	PROB
3463	ATOM	3463	O	GLU	P	223	26.626	-0.660	-7.051	0.00	0.00	PROB
3464	ATOM	3464	N	LEU	P	224	26.122	-1.621	-8.901	0.00	0.00	PROB
3465	ATOM	3465	HN	LEU	P	224	25.398	-2.021	-9.458	0.00	0.00	PROB
3466	ATOM	3466	CA	LEU	P	224	27.435	-2.243	-9.113	0.00	0.00	PROB
3467	ATOM	3467	HA	LEU	P	224	28.079	-2.131	-8.254	0.00	0.00	PROB
3468	ATOM	3468	CB	LEU	P	224	27.293	-3.745	-9.395	0.00	0.00	PROB
3469	ATOM	3469	HB1	LEU	P	224	26.935	-3.812	-10.445	0.00	0.00	PROB
3470	ATOM	3470	HB2	LEU	P	224	26.755	-4.310	-8.604	0.00	0.00	PROB
3471	ATOM	3471	CG	LEU	P	224	28.716	-4.496	-9.364	0.00	0.00	PROB
3472	ATOM	3472	HG	LEU	P	224	29.163	-4.187	-10.333	0.00	0.00	PROB
3473	ATOM	3473	CD1	LEU	P	224	29.540	-4.168	-8.134	0.00	0.00	PROB
3474	ATOM	3474	HD11	LEU	P	224	29.037	-4.484	-7.194	0.00	0.00	PROB
3475	ATOM	3475	HD12	LEU	P	224	29.792	-3.089	-8.217	0.00	0.00	PROB
3476	ATOM	3476	HD13	LEU	P	224	30.530	-4.663	-8.227	0.00	0.00	PROB
3477	ATOM	3477	CD2	LEU	P	224	28.359	-6.076	-9.449	0.00	0.00	PROB
3478	ATOM	3478	HD21	LEU	P	224	27.787	-6.404	-8.555	0.00	0.00	PROB
3479	ATOM	3479	HD22	LEU	P	224	29.188	-6.802	-9.587	0.00	0.00	PROB
3480	ATOM	3480	HD23	LEU	P	224	27.706	-6.331	-10.311	0.00	0.00	PROB
3481	ATOM	3481	C	LEU	P	224	28.190	-1.506	-10.274	0.00	0.00	PROB
3482	ATOM	3482	O	LEU	P	224	27.800	-1.572	-11.438	0.00	0.00	PROB
3483	ATOM	3483	N	GLU	P	225	29.308	-0.860	-9.885	0.00	0.00	PROB
3484	ATOM	3484	HN	GLU	P	225	29.552	-0.726	-8.928	0.00	0.00	PROB
3485	ATOM	3485	CA	GLU	P	225	30.231	-0.419	-10.908	0.00	0.00	PROB
3486	ATOM	3486	HA	GLU	P	225	29.715	0.242	-11.589	0.00	0.00	PROB
3487	ATOM	3487	CB	GLU	P	225	31.318	0.437	-10.261	0.00	0.00	PROB
3488	ATOM	3488	HB1	GLU	P	225	32.005	0.863	-11.023	0.00	0.00	PROB
3489	ATOM	3489	HB2	GLU	P	225	31.854	-0.177	-9.505	0.00	0.00	PROB
3490	ATOM	3490	CG	GLU	P	225	30.583	1.706	-9.658	0.00	0.00	PROB
3491	ATOM	3491	HG1	GLU	P	225	29.636	1.403	-9.162	0.00	0.00	PROB
3492	ATOM	3492	HG2	GLU	P	225	30.462	2.391	-10.525	0.00	0.00	PROB
3493	ATOM	3493	CD	GLU	P	225	31.421	2.337	-8.614	0.00	0.00	PROB
3494	ATOM	3494	OE1	GLU	P	225	32.476	2.923	-8.935	0.00	0.00	PROB
3495	ATOM	3495	OE2	GLU	P	225	30.965	2.261	-7.442	0.00	0.00	PROB
3496	ATOM	3496	C	GLU	P	225	30.869	-1.434	-11.726	0.00	0.00	PROB
3497	ATOM	3497	O	GLU	P	225	31.213	-2.535	-11.326	0.00	0.00	PROB
3498	ATOM	3498	N	ALA	P	226	31.078	-1.088	-12.971	0.00	0.00	PROB
3499	ATOM	3499	HN	ALA	P	226	30.649	-0.312	-13.426	0.00	0.00	PROB
3500	ATOM	3500	CA	ALA	P	226	31.820	-1.802	-14.004	0.00	0.00	PROB
3501	ATOM	3501	HA	ALA	P	226	31.613	-2.860	-13.929	0.00	0.00	PROB
3502	ATOM	3502	CB	ALA	P	226	31.399	-1.258	-15.323	0.00	0.00	PROB
3503	ATOM	3503	HB1	ALA	P	226	31.802	-0.240	-15.511	0.00	0.00	PROB
3504	ATOM	3504	HB2	ALA	P	226	30.299	-1.117	-15.262	0.00	0.00	PROB

