

$\frac{1}{8}$

LOC	TurnI	LYS	104	A	VAL	107	A	~~~~
LOC	TurnI	PRO	105	A	THR	108	A	~~~~
LOC	TurnI	GLY	106	A	GLN	109	A	~~~~
LOC	TurnVIII	PRO	138	A	LEU	141	A	~~~~
LOC	TurnIV	PHE	146	A	GLY	196	A	~~~~
LOC	TurnIV	GLN	147	A	THR	197	A	~~~~
LOC	TurnIV	SER	392	A	ALA	395	A	~~~~
LOC	TurnII	VAL	398	A	ALA	401	A	~~~~

REM

REM ----- Detailed secondary structure assignment-----

REM

REM	---Residue---				--Structure--		-Phi-	-Psi-	-Area-	
ASG	PHE	A	1	1	T	Turn	360.00	-41.49	170.5	~~~~
ASG	LEU	A	2	2	T	Turn	-67.19	-36.20	115.4	~~~~
ASG	LYS	A	3	3	T	Turn	-75.25	-33.56	193.9	~~~~
ASG	ASN	A	4	4	T	Turn	-81.25	-18.82	133.3	~~~~
ASG	ASN	A	5	5	T	Turn	-127.34	20.72	41.4	~~~~
ASG	TRP	A	6	6	H	AlphaHelix	-53.72	-42.97	167.5	~~~~
ASG	THR	A	7	7	H	AlphaHelix	-64.80	-42.37	27.2	~~~~
ASG	GLN	A	8	8	H	AlphaHelix	-62.68	-48.65	46.6	~~~~
ASG	GLN	A	9	9	H	AlphaHelix	-64.45	-42.79	66.1	~~~~
ASG	SER	A	10	10	H	AlphaHelix	-64.44	-39.55	17.9	~~~~
ASG	THR	A	11	11	H	AlphaHelix	-65.88	-42.64	0.2	~~~~
ASG	THR	A	12	12	H	AlphaHelix	-61.45	-45.68	66.3	~~~~
ASG	ALA	A	13	13	H	AlphaHelix	-60.18	-42.53	46.1	~~~~
ASG	ALA	A	14	14	H	AlphaHelix	-63.63	-33.05	3.0	~~~~
ASG	THR	A	15	15	H	AlphaHelix	-67.98	-51.65	24.5	~~~~
ASG	THR	A	16	16	H	AlphaHelix	-57.26	-39.55	85.9	~~~~
ASG	GLN	A	17	17	H	AlphaHelix	-66.92	-43.22	103.0	~~~~
ASG	GLY	A	18	18	H	AlphaHelix	-59.88	-45.22	0.0	~~~~
ASG	THR	A	19	19	H	AlphaHelix	-60.34	-45.05	59.7	~~~~
ASG	THR	A	20	20	H	AlphaHelix	-64.33	-48.30	63.4	~~~~
ASG	THR	A	21	21	H	AlphaHelix	-63.01	-42.79	41.7	~~~~
ASG	GLY	A	22	22	H	AlphaHelix	-60.00	-44.87	0.0	~~~~
ASG	THR	A	23	23	H	AlphaHelix	-68.22	-39.03	48.5	~~~~
ASG	GLN	A	24	24	H	AlphaHelix	-69.08	-49.16	107.0	~~~~
ASG	THR	A	25	25	H	AlphaHelix	-60.93	-36.68	27.6	~~~~
ASG	ARG	A	26	26	H	AlphaHelix	-67.87	-46.83	73.7	~~~~
ASG	GLU	A	27	27	H	AlphaHelix	-68.51	-30.03	143.3	~~~~
ASG	HIS	A	28	28	H	AlphaHelix	-112.19	-15.02	153.2	~~~~
ASG	SER	A	29	29	C	Coil	-128.46	120.27	35.0	~~~~
ASG	ASN	A	30	30	C	Coil	-85.51	77.67	168.1	~~~~
ASG	LEU	A	31	31	C	Coil	-72.29	133.00	40.8	~~~~
ASG	SER	A	32	32	C	Coil	-62.09	160.87	56.3	~~~~
ASG	THR	A	33	33	H	AlphaHelix	-52.47	-38.79	125.3	~~~~
ASG	LEU	A	34	34	H	AlphaHelix	-68.09	-42.14	95.9	~~~~
ASG	GLU	A	35	35	H	AlphaHelix	-66.04	-39.69	92.3	~~~~
ASG	LYS	A	36	36	H	AlphaHelix	-61.15	-40.48	66.8	~~~~
ASG	PHE	A	37	37	H	AlphaHelix	-61.04	-44.24	111.2	~~~~
ASG	TYR	A	38	38	H	AlphaHelix	-69.19	-37.96	141.4	~~~~
ASG	PHE	A	39	39	H	AlphaHelix	-62.30	-38.80	46.5	~~~~
ASG	ALA	A	40	40	H	AlphaHelix	-85.59	0.10	30.5	~~~~
ASG	PHE	A	41	41	H	AlphaHelix	-62.88	-45.43	99.8	~~~~
ASG	PRO	A	42	42	H	AlphaHelix	-58.94	-37.86	24.7	~~~~
ASG	GLY	A	43	43	H	AlphaHelix	-60.85	-39.70	2.5	~~~~
ASG	GLU	A	44	44	H	AlphaHelix	-61.96	-38.72	58.5	~~~~
ASG	ILE	A	45	45	H	AlphaHelix	-61.34	-40.37	42.3	~~~~
ASG	LEU	A	46	46	H	AlphaHelix	-59.47	-47.98	0.2	~~~~
ASG	MET	A	47	47	H	AlphaHelix	-59.67	-36.43	27.1	~~~~
ASG	ARG	A	48	48	H	AlphaHelix	-70.46	-41.25	151.1	~~~~
ASG	MET	A	49	49	H	AlphaHelix	-61.26	-38.75	54.9	~~~~
ASG	GLN	A	50	50	H	AlphaHelix	-71.49	-43.11	0.6	~~~~
ASG	LYS	A	51	51	H	AlphaHelix	-61.21	-29.54	109.3	~~~~
ASG	GLN	A	52	52	H	AlphaHelix	-69.39	-31.16	141.4	~~~~
ASG	THR	A	53	53	H	AlphaHelix	-95.96	-20.64	6.1	~~~~

ASG	THR	A	54	54	H	AlphaHelix	-65.46	-39.05	4.6	~~~~
ASG	GLN	A	55	55	H	AlphaHelix	-73.04	-55.41	24.4	~~~~
ASG	PRO	A	56	56	H	AlphaHelix	-58.88	-33.96	42.2	~~~~
ASG	GLN	A	57	57	H	AlphaHelix	-69.35	-45.73	0.0	~~~~
ASG	THR	A	58	58	H	AlphaHelix	-63.44	-43.71	0.0	~~~~
ASG	THR	A	59	59	H	AlphaHelix	-65.78	-48.85	38.9	~~~~
ASG	SER	A	60	60	H	AlphaHelix	-70.05	-44.80	0.0	~~~~
ASG	SER	A	61	61	H	AlphaHelix	-70.10	-44.87	0.0	~~~~
ASG	MET	A	62	62	H	AlphaHelix	-63.86	-43.08	0.0	~~~~
ASG	THR	A	63	63	H	AlphaHelix	-63.23	-46.55	1.4	~~~~
ASG	THR	A	64	64	H	AlphaHelix	-73.08	-36.62	2.1	~~~~
ASG	GLY	A	65	65	H	AlphaHelix	-57.38	-41.97	0.4	~~~~
ASG	THR	A	66	66	H	AlphaHelix	-80.07	-35.13	3.1	~~~~
ASG	ALA	A	67	67	H	AlphaHelix	-70.46	-37.54	11.2	~~~~
ASG	ALA	A	68	68	H	AlphaHelix	-72.40	-9.07	52.3	~~~~
ASG	GLN	A	69	69	C	Coil	-105.94	135.88	17.8	~~~~
ASG	ASP	A	70	70	C	Coil	-56.63	134.42	122.5	~~~~
ASG	SER	A	71	71	H	AlphaHelix	-45.70	-36.80	79.2	~~~~
ASG	ASN	A	72	72	H	AlphaHelix	-72.84	-41.30	129.0	~~~~
ASG	VAL	A	73	73	H	AlphaHelix	-70.38	-39.74	65.9	~~~~
ASG	SER	A	74	74	H	AlphaHelix	-59.97	-38.31	4.8	~~~~
ASG	GLY	A	75	75	H	AlphaHelix	-66.00	-37.48	44.5	~~~~
ASG	LYS	A	76	76	H	AlphaHelix	-69.99	-46.40	129.7	~~~~
ASG	ILE	A	77	77	H	AlphaHelix	-58.03	-46.75	8.0	~~~~
ASG	GLY	A	78	78	H	AlphaHelix	-59.60	-43.19	6.5	~~~~
ASG	LEU	A	79	79	H	AlphaHelix	-63.38	-42.81	115.9	~~~~
ASG	ARG	A	80	80	H	AlphaHelix	-65.01	-43.04	88.7	~~~~
ASG	ALA	A	81	81	H	AlphaHelix	-64.30	-45.10	1.6	~~~~
ASG	THR	A	82	82	H	AlphaHelix	-63.61	-42.73	84.1	~~~~
ASG	THR	A	83	83	H	AlphaHelix	-61.40	-47.35	71.7	~~~~
ASG	TYR	A	84	84	H	AlphaHelix	-56.70	-46.94	15.6	~~~~
ASG	TYR	A	85	85	H	AlphaHelix	-64.34	-43.01	7.0	~~~~
ASG	TYR	A	86	86	H	AlphaHelix	-63.81	-45.80	125.4	~~~~
ASG	CYS	A	87	87	H	AlphaHelix	-65.25	-42.71	64.6	~~~~
ASG	THR	A	88	88	H	AlphaHelix	-72.16	-37.00	4.3	~~~~
ASG	THR	A	89	89	H	AlphaHelix	-66.47	-39.93	1.6	~~~~
ASG	GLN	A	90	90	H	AlphaHelix	-64.12	-44.47	48.1	~~~~
ASG	THR	A	91	91	H	AlphaHelix	-62.48	-34.29	63.7	~~~~
ASG	ALA	A	92	92	H	AlphaHelix	-68.07	-44.39	0.0	~~~~
ASG	THR	A	93	93	H	AlphaHelix	-66.74	-40.60	0.0	~~~~
ASG	THR	A	94	94	H	AlphaHelix	-64.32	-43.47	67.9	~~~~
ASG	GLN	A	95	95	H	AlphaHelix	-61.47	-45.14	34.3	~~~~
ASG	GLY	A	96	96	H	AlphaHelix	-61.01	-45.15	0.0	~~~~
ASG	THR	A	97	97	H	AlphaHelix	-66.65	-43.71	4.4	~~~~
ASG	THR	A	98	98	H	AlphaHelix	-63.78	-41.32	80.9	~~~~
ASG	GLN	A	99	99	H	AlphaHelix	-67.10	-46.35	32.9	~~~~
ASG	THR	A	100	100	H	AlphaHelix	-67.98	-36.02	0.0	~~~~
ASG	THR	A	101	101	H	AlphaHelix	-68.11	-31.66	57.8	~~~~
ASG	SER	A	102	102	H	AlphaHelix	-77.59	-43.11	89.1	~~~~
ASG	ILE	A	103	103	H	AlphaHelix	-82.26	-32.68	69.5	~~~~
ASG	LYS	A	104	104	T	Turn	56.07	61.34	118.2	~~~~
ASG	PRO	A	105	105	T	Turn	-71.64	-17.56	0.0	~~~~
ASG	GLY	A	106	106	T	Turn	-95.51	-6.72	0.5	~~~~
ASG	VAL	A	107	107	T	Turn	-83.95	-26.94	88.6	~~~~
ASG	THR	A	108	108	T	Turn	-85.39	-5.84	106.3	~~~~
ASG	GLN	A	109	109	T	Turn	-117.33	142.13	27.5	~~~~
ASG	LYS	A	110	110	C	Coil	-100.19	130.54	147.4	~~~~
ASG	VAL	A	111	111	G	310Helix	-49.78	-30.04	34.0	~~~~
ASG	GLY	A	112	112	G	310Helix	-77.17	-13.17	79.7	~~~~
ASG	GLU	A	113	113	G	310Helix	-92.77	-14.69	111.8	~~~~
ASG	ILE	A	114	114	C	Coil	-101.23	120.76	11.6	~~~~
ASG	ALA	A	115	115	C	Coil	-66.73	126.14	62.4	~~~~
ASG	ARG	A	116	116	C	Coil	-74.85	120.88	129.1	~~~~
ASG	THR	A	117	117	C	Coil	-109.85	132.33	38.4	~~~~
ASG	GLY	A	118	118	C	Coil	84.82	-172.11	70.3	~~~~

ASG	SER	A	119	119	C	Coil	-118.44	137.14	99.7	~~~~
ASG	THR	A	120	120	C	Coil	-59.75	118.75	40.8	~~~~
ASG	PRO	A	121	121	C	Coil	-50.97	104.45	36.0	~~~~
ASG	GLU	A	122	122	C	Coil	-56.70	62.21	200.4	~~~~
ASG	VAL	A	123	123	C	Coil	-115.01	117.27	42.1	~~~~
ASG	SER	A	124	124	C	Coil	-67.46	140.51	60.0	~~~~
ASG	THR	A	125	125	H	AlphaHelix	-53.87	-43.78	26.8	~~~~
ASG	VAL	A	126	126	H	AlphaHelix	-67.09	-40.77	89.6	~~~~
ASG	ASP	A	127	127	H	AlphaHelix	-63.98	-40.78	82.6	~~~~
ASG	ALA	A	128	128	H	AlphaHelix	-63.70	-44.02	6.5	~~~~
ASG	MET	A	129	129	H	AlphaHelix	-62.88	-44.31	102.4	~~~~
ASG	LEU	A	130	130	H	AlphaHelix	-63.97	-35.57	69.2	~~~~
ASG	ASP	A	131	131	H	AlphaHelix	-65.16	-33.86	69.4	~~~~
ASG	LEU	A	132	132	H	AlphaHelix	-63.53	-44.40	36.1	~~~~
ASG	ILE	A	133	133	H	AlphaHelix	-65.17	-44.33	93.0	~~~~
ASG	ARG	A	134	134	H	AlphaHelix	-58.35	-36.03	144.5	~~~~
ASG	ASN	A	135	135	H	AlphaHelix	-77.72	-18.78	68.5	~~~~
ASG	MET	A	136	136	H	AlphaHelix	-67.47	-31.23	64.7	~~~~
ASG	PHE	A	137	137	C	Coil	-121.38	76.26	144.9	~~~~
ASG	PRO	A	138	138	T	Turn	-65.06	149.30	32.7	~~~~
ASG	GLU	A	139	139	T	Turn	-70.10	-35.96	192.9	~~~~
ASG	ASN	A	140	140	T	Turn	-138.50	123.59	76.5	~~~~
ASG	LEU	A	141	141	H	AlphaHelix	-68.37	-35.31	58.4	~~~~
ASG	VAL	A	142	142	H	AlphaHelix	-66.21	-41.28	101.3	~~~~
ASG	GLN	A	143	143	H	AlphaHelix	-64.81	-34.59	80.8	~~~~
ASG	ALA	A	144	144	H	AlphaHelix	-64.19	-17.58	2.3	~~~~
ASG	CYS	A	145	145	H	AlphaHelix	-76.52	-21.23	49.9	~~~~
ASG	PHE	A	146	146	T	Turn	-134.21	-2.31	103.9	~~~~
ASG	GLN	A	147	147	T	Turn	-142.35	360.00	91.8	~~~~
ASG	ASP	A	195	148	T	Turn	360.00	126.51	185.9	~~~~
ASG	GLY	A	196	149	T	Turn	153.36	150.04	32.8	~~~~
ASG	THR	A	197	150	T	Turn	-73.21	124.24	28.3	~~~~
ASG	ASN	A	198	151	C	Coil	-80.68	77.52	12.2	~~~~
ASG	THR	A	199	152	H	AlphaHelix	-65.11	-33.47	1.2	~~~~
ASG	GLN	A	200	153	H	AlphaHelix	-62.42	-50.97	19.6	~~~~
ASG	GLY	A	201	154	H	AlphaHelix	-61.84	-40.28	0.0	~~~~
ASG	GLN	A	202	155	H	AlphaHelix	-65.43	-45.73	6.7	~~~~
ASG	THR	A	203	156	H	AlphaHelix	-61.68	-45.09	3.0	~~~~
ASG	THR	A	204	157	H	AlphaHelix	-61.25	-44.83	23.7	~~~~
ASG	TYR	A	205	158	H	AlphaHelix	-63.64	-49.05	102.6	~~~~
ASG	CYS	A	206	159	H	AlphaHelix	-60.34	-33.19	2.8	~~~~
ASG	GLN	A	207	160	H	AlphaHelix	-63.52	-48.10	40.5	~~~~
ASG	THR	A	208	161	H	AlphaHelix	-67.96	-42.29	79.6	~~~~
ASG	TYR	A	209	162	H	AlphaHelix	-63.86	-45.48	67.0	~~~~
ASG	GLY	A	210	163	H	AlphaHelix	-59.25	-42.53	0.0	~~~~
ASG	GLN	A	211	164	H	AlphaHelix	-60.07	-45.69	92.6	~~~~
ASG	THR	A	212	165	H	AlphaHelix	-65.25	-41.82	78.1	~~~~
ASG	THR	A	213	166	H	AlphaHelix	-62.01	-37.23	2.1	~~~~
ASG	GLY	A	214	167	H	AlphaHelix	-68.55	-28.04	36.0	~~~~
ASG	LYS	A	215	168	H	AlphaHelix	-87.61	-11.92	159.2	~~~~
ASG	MET	A	216	169	H	AlphaHelix	-77.02	-8.22	89.7	~~~~
ASG	GLY	A	217	170	C	Coil	70.07	-118.84	47.4	~~~~
ASG	GLU	A	218	171	H	AlphaHelix	-72.28	-38.12	176.1	~~~~
ASG	LYS	A	219	172	H	AlphaHelix	-65.96	-35.67	162.9	~~~~
ASG	GLY	A	220	173	H	AlphaHelix	-70.13	-26.35	1.2	~~~~
ASG	GLN	A	221	174	H	AlphaHelix	-62.70	-34.96	94.2	~~~~
ASG	ILE	A	222	175	H	AlphaHelix	-59.32	-41.66	122.8	~~~~
ASG	LEU	A	223	176	H	AlphaHelix	-71.23	-40.55	46.5	~~~~
ASG	VAL	A	224	177	H	AlphaHelix	-61.24	-42.41	12.8	~~~~
ASG	ASP	A	225	178	H	AlphaHelix	-65.88	-42.76	87.8	~~~~
ASG	TYR	A	226	179	H	AlphaHelix	-57.70	-52.01	137.4	~~~~
ASG	TYR	A	227	180	H	AlphaHelix	-66.03	-37.89	32.7	~~~~
ASG	ASN	A	228	181	H	AlphaHelix	-58.85	-47.19	41.5	~~~~
ASG	ALA	A	229	182	H	AlphaHelix	-59.94	-42.40	59.1	~~~~
ASG	GLN	A	230	183	H	AlphaHelix	-62.37	-44.51	45.7	~~~~

ASG	SER	A	231	184	H	AlphaHelix	-60.72	-42.58	0.4	~~~~
ASG	ASP	A	232	185	H	AlphaHelix	-64.00	-43.63	69.8	~~~~
ASG	ALA	A	233	186	H	AlphaHelix	-60.39	-39.78	53.0	~~~~
ASG	THR	A	234	187	H	AlphaHelix	-69.43	-37.01	12.3	~~~~
ASG	MET	A	235	188	H	AlphaHelix	-62.00	-38.77	18.2	~~~~
ASG	LYS	A	236	189	H	AlphaHelix	-67.39	-39.72	146.4	~~~~
ASG	THR	A	237	190	H	AlphaHelix	-62.74	-39.26	66.6	~~~~
ASG	THR	A	238	191	H	AlphaHelix	-60.56	-31.40	0.4	~~~~
ASG	GLN	A	239	192	H	AlphaHelix	-67.37	-36.23	81.8	~~~~
ASG	THR	A	240	193	H	AlphaHelix	-66.97	-44.19	101.2	~~~~
ASG	THR	A	241	194	H	AlphaHelix	-62.83	-27.69	11.5	~~~~
ASG	MET	A	242	195	H	AlphaHelix	-70.86	-27.45	7.1	~~~~
ASG	CYS	A	243	196	H	AlphaHelix	-67.13	-31.29	103.0	~~~~
ASG	TYR	A	244	197	H	AlphaHelix	-83.18	-7.42	50.6	~~~~
ASG	MET	A	245	198	H	AlphaHelix	-61.88	-51.65	0.4	~~~~
ASG	PRO	A	246	199	H	AlphaHelix	-53.78	-43.23	24.0	~~~~
ASG	GLN	A	247	200	H	AlphaHelix	-68.72	-46.60	97.6	~~~~
ASG	GLY	A	248	201	H	AlphaHelix	-58.87	-42.37	0.0	~~~~
ASG	THR	A	249	202	H	AlphaHelix	-68.83	-42.69	1.6	~~~~
ASG	GLN	A	250	203	H	AlphaHelix	-52.92	-49.83	41.9	~~~~
ASG	TYR	A	251	204	H	AlphaHelix	-79.12	-28.27	66.7	~~~~
ASG	GLN	A	252	205	H	AlphaHelix	-64.71	-45.03	18.9	~~~~
ASG	THR	A	253	206	H	AlphaHelix	-66.82	-47.64	13.2	~~~~
ASG	ALA	A	254	207	H	AlphaHelix	-61.10	-42.13	0.8	~~~~
ASG	GLY	A	255	208	H	AlphaHelix	-61.81	-41.64	10.2	~~~~
ASG	LYS	A	256	209	H	AlphaHelix	-70.77	-35.50	82.3	~~~~
ASG	ILE	A	257	210	H	AlphaHelix	-68.51	-37.98	17.5	~~~~
ASG	ILE	A	258	211	H	AlphaHelix	-71.14	-28.87	6.3	~~~~
ASG	GLU	A	259	212	H	AlphaHelix	-72.93	-20.69	121.8	~~~~
ASG	VAL	A	260	213	C	Coil	-72.69	118.87	16.7	~~~~
ASG	GLU	A	261	214	C	Coil	-88.25	-43.70	170.2	~~~~
ASG	ASP	A	262	215	C	Coil	-124.33	114.11	73.9	~~~~
ASG	TRP	A	263	216	H	AlphaHelix	-81.03	-15.30	110.1	~~~~
ASG	GLU	A	264	217	H	AlphaHelix	-63.75	-27.70	85.1	~~~~
ASG	ILE	A	265	218	H	AlphaHelix	-64.32	-31.48	32.7	~~~~
ASG	PHE	A	266	219	H	AlphaHelix	-70.55	-33.26	22.2	~~~~
ASG	ARG	A	267	220	H	AlphaHelix	-69.80	-38.40	184.1	~~~~
ASG	LYS	A	268	221	H	AlphaHelix	-74.80	-30.95	70.1	~~~~
ASG	LEU	A	269	222	H	AlphaHelix	-106.96	15.30	0.0	~~~~
ASG	GLY	A	270	223	H	AlphaHelix	-61.36	-48.48	21.6	~~~~
ASG	LEU	A	271	224	H	AlphaHelix	-62.35	-41.25	69.3	~~~~
ASG	TYR	A	272	225	H	AlphaHelix	-58.80	-47.44	0.0	~~~~
ASG	MET	A	273	226	H	AlphaHelix	-62.02	-44.47	14.6	~~~~
ASG	ALA	A	274	227	H	AlphaHelix	-62.08	-42.14	40.7	~~~~
ASG	THR	A	275	228	H	AlphaHelix	-64.16	-47.05	1.8	~~~~
ASG	THR	A	276	229	H	AlphaHelix	-66.08	-42.23	0.0	~~~~
ASG	GLN	A	277	230	H	AlphaHelix	-67.27	-43.21	47.2	~~~~
ASG	THR	A	278	231	H	AlphaHelix	-65.43	-37.81	60.5	~~~~
ASG	GLY	A	279	232	H	AlphaHelix	-60.78	-46.36	0.0	~~~~
ASG	GLN	A	280	233	H	AlphaHelix	-64.93	-40.14	2.0	~~~~
ASG	ALA	A	281	234	H	AlphaHelix	-63.61	-44.03	49.2	~~~~
ASG	THR	A	282	235	H	AlphaHelix	-63.41	-43.33	59.3	~~~~
ASG	HIS	A	283	236	H	AlphaHelix	-64.03	-42.40	0.8	~~~~
ASG	SER	A	284	237	H	AlphaHelix	-72.01	-34.82	3.2	~~~~
ASG	THR	A	285	238	H	AlphaHelix	-101.04	-21.94	76.3	~~~~
ASG	THR	A	286	239	H	AlphaHelix	-118.59	-60.78	70.7	~~~~
ASG	THR	A	287	240	H	AlphaHelix	-65.38	-45.86	20.4	~~~~
ASG	GLN	A	288	241	H	AlphaHelix	-67.18	-52.55	0.8	~~~~
ASG	PRO	A	289	242	H	AlphaHelix	-58.73	-36.71	3.8	~~~~
ASG	GLN	A	290	243	H	AlphaHelix	-60.77	-45.23	117.2	~~~~
ASG	THR	A	291	244	H	AlphaHelix	-62.67	-39.18	35.7	~~~~
ASG	TYR	A	292	245	H	AlphaHelix	-65.33	-46.09	11.2	~~~~
ASG	TYR	A	293	246	H	AlphaHelix	-62.85	-40.11	109.6	~~~~
ASG	THR	A	294	247	H	AlphaHelix	-67.55	-32.99	76.8	~~~~
ASG	THR	A	295	248	H	AlphaHelix	-92.96	-45.93	55.1	~~~~

ASG	VAL	A	296	249	H	AlphaHelix	-93.38	-26.43	6.7	~~~~
ASG	ARG	A	297	250	C	Coil	60.55	29.71	164.9	~~~~
ASG	LYS	A	298	251	C	Coil	-117.53	155.41	106.9	~~~~
ASG	ASN	A	299	252	C	Coil	-60.83	111.46	94.7	~~~~
ASG	PRO	A	300	253	H	AlphaHelix	-67.91	-29.65	8.4	~~~~
ASG	PHE	A	301	254	H	AlphaHelix	-74.71	-30.28	116.5	~~~~
ASG	ARG	A	302	255	H	AlphaHelix	-66.54	-40.34	203.0	~~~~
ASG	PHE	A	303	256	H	AlphaHelix	-63.13	-45.57	17.9	~~~~
ASG	ALA	A	304	257	H	AlphaHelix	-61.82	-35.07	16.5	~~~~
ASG	MET	A	305	258	H	AlphaHelix	-65.67	-33.99	129.4	~~~~
ASG	GLY	A	306	259	H	AlphaHelix	-68.45	-16.50	12.9	~~~~
ASG	MET	A	307	260	H	AlphaHelix	-105.09	3.75	1.8	~~~~
ASG	ALA	A	308	261	H	AlphaHelix	-55.60	-42.95	16.1	~~~~
ASG	GLN	A	309	262	H	AlphaHelix	-62.78	-43.68	6.3	~~~~
ASG	ALA	A	310	263	H	AlphaHelix	-64.93	-38.64	0.0	~~~~
ASG	LEU	A	311	264	H	AlphaHelix	-68.90	-40.31	19.4	~~~~
ASG	LEU	A	312	265	H	AlphaHelix	-65.25	-39.70	30.7	~~~~
ASG	THR	A	313	266	H	AlphaHelix	-65.54	-43.95	2.2	~~~~
ASG	ALA	A	314	267	H	AlphaHelix	-61.12	-39.81	0.0	~~~~
ASG	LEU	A	315	268	H	AlphaHelix	-64.26	-30.59	38.9	~~~~
ASG	MET	A	316	269	H	AlphaHelix	-93.57	-35.78	8.6	~~~~
ASG	ILE	A	317	270	H	AlphaHelix	-91.74	-31.38	5.4	~~~~
ASG	SER	A	318	271	C	Coil	72.16	15.26	9.1	~~~~
ASG	SER	A	319	272	C	Coil	-126.82	119.68	7.4	~~~~
ASG	SER	A	320	273	G	310Helix	-66.77	-35.79	6.2	~~~~
ASG	SER	A	321	274	G	310Helix	-72.49	-39.03	7.0	~~~~
ASG	ALA	A	322	275	G	310Helix	-71.84	-17.59	2.0	~~~~
ASG	THR	A	323	276	G	310Helix	-95.81	-3.44	0.6	~~~~
ASG	LEU	A	324	277	H	AlphaHelix	-59.90	-44.95	4.6	~~~~
ASG	PRO	A	325	278	H	AlphaHelix	-60.07	-41.13	0.0	~~~~
ASG	VAL	A	326	279	H	AlphaHelix	-68.23	-37.15	0.6	~~~~
ASG	THR	A	327	280	H	AlphaHelix	-65.41	-39.85	4.0	~~~~
ASG	PHE	A	328	281	H	AlphaHelix	-59.20	-45.04	0.0	~~~~
ASG	ARG	A	329	282	H	AlphaHelix	-63.23	-50.40	46.3	~~~~
ASG	CYS	A	330	283	H	AlphaHelix	-61.87	-40.37	0.0	~~~~
ASG	ALA	A	331	284	H	AlphaHelix	-69.35	-40.48	1.2	~~~~
ASG	GLU	A	332	285	H	AlphaHelix	-85.37	-40.23	20.8	~~~~
ASG	GLU	A	333	286	H	AlphaHelix	-94.58	-40.56	88.5	~~~~
ASG	ASN	A	334	287	H	AlphaHelix	-85.77	-41.41	75.4	~~~~
ASG	ASN	A	335	288	H	AlphaHelix	-102.98	-8.35	35.9	~~~~
ASG	GLN	A	336	289	C	Coil	60.17	39.44	141.0	~~~~
ASG	VAL	A	337	290	C	Coil	-75.63	140.30	6.0	~~~~
ASG	ASP	A	338	291	C	Coil	-57.45	133.11	60.1	~~~~
ASG	LYS	A	339	292	H	AlphaHelix	-62.13	-30.87	95.4	~~~~
ASG	ARG	A	340	293	H	AlphaHelix	-63.67	-37.14	140.1	~~~~
ASG	THR	A	341	294	H	AlphaHelix	-79.31	-45.15	9.2	~~~~
ASG	THR	A	342	295	H	AlphaHelix	-62.67	-40.22	0.0	~~~~
ASG	ARG	A	343	296	H	AlphaHelix	-72.96	-21.11	18.0	~~~~
ASG	TYR	A	344	297	H	AlphaHelix	-95.77	-49.72	25.9	~~~~
ASG	THR	A	345	298	H	AlphaHelix	-79.22	-36.20	0.0	~~~~
ASG	GLN	A	346	299	H	AlphaHelix	-70.49	-49.78	1.0	~~~~
ASG	PRO	A	347	300	H	AlphaHelix	-63.43	-38.27	0.0	~~~~
ASG	THR	A	348	301	H	AlphaHelix	-64.11	-43.22	12.0	~~~~
ASG	GLY	A	349	302	H	AlphaHelix	-63.43	-38.22	0.2	~~~~
ASG	ALA	A	350	303	H	AlphaHelix	-60.16	-14.27	1.1	~~~~
ASG	THR	A	351	304	H	AlphaHelix	-114.16	-32.97	6.4	~~~~
ASG	THR	A	352	305	H	AlphaHelix	-106.90	-28.83	37.4	~~~~
ASG	ASN	A	353	306	C	Coil	-102.82	79.75	0.4	~~~~
ASG	MET	A	354	307	C	Coil	-115.43	67.89	6.2	~~~~
ASG	ASP	A	355	308	H	AlphaHelix	-57.96	-47.15	0.0	~~~~
ASG	GLY	A	356	309	H	AlphaHelix	-55.44	-41.77	0.0	~~~~
ASG	THR	A	357	310	H	AlphaHelix	-67.16	-45.77	7.8	~~~~
ASG	ALA	A	358	311	H	AlphaHelix	-61.00	-47.91	0.0	~~~~
ASG	GLN	A	359	312	H	AlphaHelix	-58.92	-45.45	0.0	~~~~
ASG	TYR	A	360	313	H	AlphaHelix	-59.14	-44.79	0.2	~~~~

ASG	GLU	A	361	314	H	AlphaHelix	-62.49	-41.72	0.0	~~~~
ASG	ALA	A	362	315	H	AlphaHelix	-66.02	-46.00	0.0	~~~~
ASG	THR	A	363	316	H	AlphaHelix	-64.12	-43.90	0.0	~~~~
ASG	ALA	A	364	317	H	AlphaHelix	-64.28	-45.17	0.0	~~~~
ASG	ALA	A	365	318	H	AlphaHelix	-59.88	-43.51	0.0	~~~~
ASG	THR	A	366	319	H	AlphaHelix	-67.59	-41.09	2.4	~~~~
ASG	TYR	A	367	320	H	AlphaHelix	-59.28	-49.46	0.0	~~~~
ASG	ILE	A	368	321	H	AlphaHelix	-62.48	-40.65	0.0	~~~~
ASG	ALA	A	369	322	H	AlphaHelix	-57.44	-40.20	0.4	~~~~
ASG	GLN	A	370	323	H	AlphaHelix	-68.97	-36.86	23.4	~~~~
ASG	LEU	A	371	324	H	AlphaHelix	-65.24	-31.98	5.2	~~~~
ASG	ASN	A	372	325	H	AlphaHelix	-97.75	7.96	51.1	~~~~
ASG	ASP	A	373	326	C	Coil	60.04	33.61	135.5	~~~~
ASG	LEU	A	374	327	C	Coil	-97.46	122.23	80.5	~~~~
ASG	ASP	A	375	328	C	Coil	-79.70	121.32	153.7	~~~~
ASG	LEU	A	376	329	C	Coil	-84.82	109.67	35.6	~~~~
ASG	GLY	A	377	330	C	Coil	-66.95	172.61	38.8	~~~~
ASG	ILE	A	378	331	H	AlphaHelix	-61.99	-36.45	136.7	~~~~
ASG	GLY	A	379	332	H	AlphaHelix	-63.71	-39.39	47.3	~~~~
ASG	GLN	A	380	333	H	AlphaHelix	-70.81	-34.75	69.3	~~~~
ASG	ILE	A	381	334	H	AlphaHelix	-66.17	-43.88	53.1	~~~~
ASG	ILE	A	382	335	H	AlphaHelix	-64.14	-40.96	92.1	~~~~
ASG	THR	A	383	336	H	AlphaHelix	-62.90	-40.29	54.8	~~~~
ASG	ILE	A	384	337	H	AlphaHelix	-61.65	-45.20	0.0	~~~~
ASG	SER	A	385	338	H	AlphaHelix	-62.81	-46.68	6.0	~~~~
ASG	ILE	A	386	339	H	AlphaHelix	-71.03	-42.59	87.2	~~~~
ASG	THR	A	387	340	H	AlphaHelix	-69.63	-40.51	27.0	~~~~
ASG	ALA	A	388	341	H	AlphaHelix	-63.54	-41.65	0.0	~~~~
ASG	THR	A	389	342	H	AlphaHelix	-62.78	-45.53	2.0	~~~~
ASG	SER	A	390	343	H	AlphaHelix	-65.55	-40.47	59.9	~~~~
ASG	ALA	A	391	344	H	AlphaHelix	-66.95	-26.47	5.0	~~~~
ASG	SER	A	392	345	H	AlphaHelix	-78.80	-24.10	0.0	~~~~
ASG	ILE	A	393	346	T	Turn	-75.73	56.39	82.3	~~~~
ASG	GLY	A	394	347	T	Turn	165.26	-11.76	1.2	~~~~
ASG	ALA	A	395	348	T	Turn	-60.43	107.67	2.1	~~~~
ASG	ALA	A	396	349	C	Coil	-49.05	107.91	26.8	~~~~
ASG	GLY	A	397	350	C	Coil	-38.58	29.48	5.7	~~~~
ASG	VAL	A	398	351	T	Turn	-100.06	148.46	46.0	~~~~
ASG	PRO	A	399	352	T	Turn	-54.79	131.01	57.8	~~~~
ASG	GLN	A	400	353	T	Turn	77.56	9.42	112.6	~~~~
ASG	ALA	A	401	354	H	AlphaHelix	-59.66	-18.89	16.3	~~~~
ASG	GLY	A	402	355	H	AlphaHelix	-67.26	-25.91	3.3	~~~~
ASG	LEU	A	403	356	H	AlphaHelix	-74.78	-37.13	15.8	~~~~
ASG	VAL	A	404	357	H	AlphaHelix	-66.81	-40.44	62.6	~~~~
ASG	THR	A	405	358	H	AlphaHelix	-75.35	-24.73	6.2	~~~~
ASG	MET	A	406	359	H	AlphaHelix	-65.60	-35.16	0.0	~~~~
ASG	VAL	A	407	360	H	AlphaHelix	-65.05	-32.42	2.2	~~~~
ASG	ILE	A	408	361	H	AlphaHelix	-66.27	-43.24	7.2	~~~~
ASG	VAL	A	409	362	H	AlphaHelix	-70.63	-42.84	0.0	~~~~
ASG	LEU	A	410	363	H	AlphaHelix	-63.42	-42.53	0.0	~~~~
ASG	SER	A	411	364	H	AlphaHelix	-66.62	-36.08	49.2	~~~~
ASG	ALA	A	412	365	H	AlphaHelix	-64.50	-28.39	46.8	~~~~
ASG	VAL	A	413	366	H	AlphaHelix	-107.32	-0.81	14.9	~~~~
ASG	GLY	A	414	367	C	Coil	83.69	23.60	63.3	~~~~
ASG	LEU	A	415	368	C	Coil	-89.83	147.50	9.9	~~~~
ASG	PRO	A	416	369	C	Coil	-60.59	114.21	34.1	~~~~
ASG	ALA	A	417	370	G	310Helix	-68.20	-19.61	23.9	~~~~
ASG	GLU	A	418	371	G	310Helix	-70.64	-19.60	99.4	~~~~
ASG	ASP	A	419	372	G	310Helix	-77.99	-3.29	0.6	~~~~
ASG	VAL	A	420	373	G	310Helix	-62.57	-26.02	0.0	~~~~
ASG	THR	A	421	374	G	310Helix	-69.85	-12.65	4.6	~~~~
ASG	LEU	A	422	375	G	310Helix	-77.21	-27.35	1.0	~~~~
ASG	ILE	A	423	376	C	Coil	-111.40	-2.96	0.0	~~~~
ASG	ILE	A	424	377	G	310Helix	-62.55	-31.15	40.9	~~~~
ASG	ALA	A	425	378	G	310Helix	-64.27	-29.22	25.6	~~~~

ASG	VAL	A	426	379	G	310Helix	-108.01	1.20	0.2	~~~~
ASG	ASP	A	427	380	H	AlphaHelix	-63.27	-39.67	0.8	~~~~
ASG	TRP	A	428	381	H	AlphaHelix	-54.43	-43.26	59.4	~~~~
ASG	GLN	A	429	382	H	AlphaHelix	-68.39	-47.47	44.1	~~~~
ASG	GLN	A	430	383	H	AlphaHelix	-62.63	-33.46	0.2	~~~~
ASG	ASP	A	431	384	H	AlphaHelix	-58.24	-33.03	12.2	~~~~
ASG	ARG	A	432	385	H	AlphaHelix	-67.18	-44.34	24.1	~~~~
ASG	TYR	A	433	386	H	AlphaHelix	-69.50	-34.13	77.8	~~~~
ASG	ARG	A	434	387	H	AlphaHelix	-63.92	-48.30	0.2	~~~~
ASG	THR	A	435	388	H	AlphaHelix	-61.75	-41.99	5.6	~~~~
ASG	MET	A	436	389	H	AlphaHelix	-61.08	-46.60	42.1	~~~~
ASG	THR	A	437	390	H	AlphaHelix	-60.90	-41.30	0.6	~~~~
ASG	ASN	A	438	391	H	AlphaHelix	-63.97	-46.70	3.8	~~~~
ASG	THR	A	439	392	H	AlphaHelix	-61.40	-42.26	2.8	~~~~
ASG	GLN	A	440	393	H	AlphaHelix	-62.36	-46.78	18.2	~~~~
ASG	GLY	A	441	394	H	AlphaHelix	-55.97	-40.70	0.0	~~~~
ASG	ASP	A	442	395	H	AlphaHelix	-64.40	-39.54	7.6	~~~~
ASG	ALA	A	443	396	H	AlphaHelix	-65.27	-48.60	2.4	~~~~
ASG	TYR	A	444	397	H	AlphaHelix	-62.14	-41.28	1.4	~~~~
ASG	GLY	A	445	398	H	AlphaHelix	-56.14	-40.16	0.0	~~~~
ASG	THR	A	446	399	H	AlphaHelix	-66.69	-45.87	0.4	~~~~
ASG	GLY	A	447	400	H	AlphaHelix	-61.54	-41.82	1.4	~~~~
ASG	THR	A	448	401	H	AlphaHelix	-66.53	-44.41	2.2	~~~~
ASG	THR	A	449	402	H	AlphaHelix	-64.67	-37.92	0.6	~~~~
ASG	GLU	A	450	403	H	AlphaHelix	-60.71	-48.80	32.1	~~~~
ASG	LYS	A	451	404	H	AlphaHelix	-61.34	-41.35	94.2	~~~~
ASG	LEU	A	452	405	H	AlphaHelix	-75.22	-20.78	79.8	~~~~
ASG	SER	A	453	406	H	AlphaHelix	-100.84	-5.66	32.8	~~~~
ASG	LYS	A	454	407	C	Coil	-63.21	360.00	172.6	~~~~