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LOC	TurnIV	GLN	148	A	TYR	197	A	~~~~
LOC	TurnIV	ILE	149	A	LYS	198	A	~~~~
LOC	TurnVIII	ILE	264	A	LEU	267	A	~~~~
LOC	TurnII	ILE	403	A	ALA	406	A	~~~~
LOC	TurnI	PRO	421	A	ASP	424	A	~~~~
LOC	GammaInv	ASP	121	A	VAL	123	A	~~~~

REM

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

REM	---Residue---		--Structure--		-Phi-	-Psi-	-Area-	~~~~		
ASG	LYS	A	1	1	C	Coil	360.00	-16.44	231.0	~~~~
ASG	LEU	A	2	2	C	Coil	-79.87	-23.29	146.2	~~~~
ASG	GLY	A	3	3	G	310Helix	-73.15	-35.65	56.2	~~~~
ASG	LYS	A	4	4	G	310Helix	-74.43	-16.88	185.5	~~~~
ASG	ASN	A	5	5	G	310Helix	-113.33	1.45	74.8	~~~~
ASG	GLN	A	6	6	H	AlphaHelix	-49.25	-38.09	84.9	~~~~
ASG	GLN	A	7	7	H	AlphaHelix	-71.28	-43.95	12.2	~~~~
ASG	GLN	A	8	8	H	AlphaHelix	-58.56	-44.65	29.8	~~~~
ASG	THR	A	9	9	H	AlphaHelix	-64.72	-32.56	80.6	~~~~
ASG	GLN	A	10	10	H	AlphaHelix	-76.18	-39.74	63.9	~~~~
ASG	THR	A	11	11	H	AlphaHelix	-67.03	-43.37	0.4	~~~~
ASG	THR	A	12	12	H	AlphaHelix	-60.58	-41.91	44.5	~~~~
ASG	TYR	A	13	13	H	AlphaHelix	-62.52	-42.87	155.2	~~~~
ASG	GLY	A	14	14	H	AlphaHelix	-59.79	-46.29	2.7	~~~~
ASG	THR	A	15	15	H	AlphaHelix	-62.48	-48.73	20.2	~~~~
ASG	THR	A	16	16	H	AlphaHelix	-61.74	-43.21	82.8	~~~~
ASG	GLN	A	17	17	H	AlphaHelix	-62.92	-47.27	85.0	~~~~
ASG	GLY	A	18	18	H	AlphaHelix	-56.42	-45.26	2.1	~~~~
ASG	ALA	A	19	19	H	AlphaHelix	-62.71	-47.37	40.6	~~~~
ASG	THR	A	20	20	H	AlphaHelix	-62.63	-47.70	74.8	~~~~
ASG	CYS	A	21	21	H	AlphaHelix	-62.73	-43.25	42.9	~~~~
ASG	GLY	A	22	22	H	AlphaHelix	-58.59	-42.62	0.0	~~~~
ASG	GLY	A	23	23	H	AlphaHelix	-63.70	-42.27	35.5	~~~~
ASG	GLN	A	24	24	H	AlphaHelix	-68.72	-44.20	127.7	~~~~
ASG	GLN	A	25	25	H	AlphaHelix	-69.60	-22.14	71.5	~~~~
ASG	ARG	A	26	26	H	AlphaHelix	-67.18	-35.94	66.4	~~~~
ASG	LEU	A	27	27	H	AlphaHelix	-59.79	-16.78	158.3	~~~~
ASG	ALA	A	28	28	C	Coil	-99.42	7.22	74.1	~~~~
ASG	SER	A	29	29	C	Coil	-65.92	137.38	57.1	~~~~
ASG	PRO	A	30	30	C	Coil	-99.84	126.08	121.1	~~~~
ASG	ILE	A	31	31	C	Coil	-87.78	129.22	40.2	~~~~
ASG	HIS	A	32	32	C	Coil	-50.77	129.70	109.2	~~~~
ASG	PRO	A	33	33	H	AlphaHelix	-47.91	-33.01	94.1	~~~~
ASG	ASP	A	34	34	H	AlphaHelix	-67.79	-39.63	98.6	~~~~
ASG	VAL	A	35	35	H	AlphaHelix	-65.73	-42.55	67.1	~~~~
ASG	VAL	A	36	36	H	AlphaHelix	-59.96	-40.81	20.2	~~~~
ASG	MET	A	37	37	H	AlphaHelix	-60.09	-43.60	92.7	~~~~
ASG	LEU	A	38	38	H	AlphaHelix	-67.69	-39.43	116.0	~~~~
ASG	ILE	A	39	39	H	AlphaHelix	-64.51	-38.46	36.8	~~~~
ASG	ALA	A	40	40	H	AlphaHelix	-86.09	-9.02	14.8	~~~~
ASG	PHE	A	41	41	H	AlphaHelix	-60.54	-49.40	103.2	~~~~
ASG	PRO	A	42	42	H	AlphaHelix	-56.28	-38.42	23.3	~~~~
ASG	GLY	A	43	43	H	AlphaHelix	-59.20	-40.20	0.0	~~~~
ASG	ASP	A	44	44	H	AlphaHelix	-61.09	-41.33	66.7	~~~~
ASG	ILE	A	45	45	H	AlphaHelix	-62.49	-41.34	53.1	~~~~
ASG	LEU	A	46	46	H	AlphaHelix	-58.84	-45.88	0.2	~~~~
ASG	MET	A	47	47	H	AlphaHelix	-62.89	-36.36	21.2	~~~~
ASG	ARG	A	48	48	H	AlphaHelix	-68.70	-40.92	181.3	~~~~
ASG	MET	A	49	49	H	AlphaHelix	-61.13	-40.85	53.0	~~~~
ASG	GLN	A	50	50	H	AlphaHelix	-70.67	-44.02	7.2	~~~~
ASG	LYS	A	51	51	H	AlphaHelix	-62.35	-31.37	129.0	~~~~
ASG	MET	A	52	52	H	AlphaHelix	-67.89	-27.62	123.3	~~~~
ASG	GLN	A	53	53	H	AlphaHelix	-95.35	-14.95	7.2	~~~~
ASG	THR	A	54	54	H	AlphaHelix	-60.23	-44.06	3.0	~~~~
ASG	GLN	A	55	55	H	AlphaHelix	-70.51	-58.28	59.6	~~~~

ASG	PRO	A	56	56	H	AlphaHelix	-57.32	-33.80	24.7	~~~~
ASG	GLN	A	57	57	H	AlphaHelix	-70.37	-49.22	0.2	~~~~
ASG	THR	A	58	58	H	AlphaHelix	-60.05	-42.84	5.6	~~~~
ASG	THR	A	59	59	H	AlphaHelix	-66.21	-50.74	3.6	~~~~
ASG	SER	A	60	60	H	AlphaHelix	-70.64	-41.75	0.0	~~~~
ASG	SER	A	61	61	H	AlphaHelix	-71.78	-43.94	0.0	~~~~
ASG	GLN	A	62	62	H	AlphaHelix	-61.65	-44.59	0.0	~~~~
ASG	THR	A	63	63	H	AlphaHelix	-64.40	-46.43	0.0	~~~~
ASG	THR	A	64	64	H	AlphaHelix	-70.77	-38.27	9.2	~~~~
ASG	GLY	A	65	65	H	AlphaHelix	-57.72	-38.05	0.0	~~~~
ASG	GLN	A	66	66	H	AlphaHelix	-88.43	-35.29	5.2	~~~~
ASG	SER	A	67	67	H	AlphaHelix	-75.94	-28.78	13.9	~~~~
ASG	GLY	A	68	68	H	AlphaHelix	-76.47	-1.61	37.7	~~~~
ASG	GLN	A	69	69	C	Coil	-115.19	140.23	17.2	~~~~
ASG	ASP	A	70	70	C	Coil	-60.01	142.85	130.7	~~~~
ASG	ALA	A	71	71	H	AlphaHelix	-46.62	-40.65	65.1	~~~~
ASG	LYS	A	72	72	H	AlphaHelix	-68.79	-44.71	171.2	~~~~
ASG	ALA	A	73	73	H	AlphaHelix	-65.79	-39.82	47.8	~~~~
ASG	SER	A	74	74	H	AlphaHelix	-61.41	-37.80	13.6	~~~~
ASG	GLY	A	75	75	H	AlphaHelix	-66.59	-42.39	35.8	~~~~
ASG	ARG	A	76	76	H	AlphaHelix	-67.13	-48.02	135.8	~~~~
ASG	LEU	A	77	77	H	AlphaHelix	-55.36	-46.83	4.4	~~~~
ASG	GLY	A	78	78	H	AlphaHelix	-61.63	-45.20	6.8	~~~~
ASG	THR	A	79	79	H	AlphaHelix	-63.06	-42.38	91.5	~~~~
ASG	ARG	A	80	80	H	AlphaHelix	-65.01	-43.17	62.9	~~~~
ASG	ALA	A	81	81	H	AlphaHelix	-63.66	-42.74	0.2	~~~~
ASG	MET	A	82	82	H	AlphaHelix	-68.15	-38.82	67.9	~~~~
ASG	THR	A	83	83	H	AlphaHelix	-62.33	-46.10	89.3	~~~~
ASG	TYR	A	84	84	H	AlphaHelix	-57.82	-47.24	11.9	~~~~
ASG	TYR	A	85	85	H	AlphaHelix	-63.90	-43.11	1.4	~~~~
ASG	MET	A	86	86	H	AlphaHelix	-69.30	-38.09	72.9	~~~~
ASG	SER	A	87	87	H	AlphaHelix	-70.07	-44.20	52.7	~~~~
ASG	THR	A	88	88	H	AlphaHelix	-72.53	-36.06	5.1	~~~~
ASG	THR	A	89	89	H	AlphaHelix	-67.90	-42.52	0.6	~~~~
ASG	THR	A	90	90	H	AlphaHelix	-62.84	-42.42	58.7	~~~~
ASG	THR	A	91	91	H	AlphaHelix	-62.38	-37.35	64.3	~~~~
ASG	ALA	A	92	92	H	AlphaHelix	-65.53	-44.29	0.0	~~~~
ASG	ALA	A	93	93	H	AlphaHelix	-64.37	-41.60	0.0	~~~~
ASG	THR	A	94	94	H	AlphaHelix	-66.20	-43.32	62.1	~~~~
ASG	GLN	A	95	95	H	AlphaHelix	-59.03	-45.74	18.8	~~~~
ASG	GLY	A	96	96	H	AlphaHelix	-56.70	-45.51	0.0	~~~~
ASG	THR	A	97	97	H	AlphaHelix	-67.29	-44.12	0.4	~~~~
ASG	THR	A	98	98	H	AlphaHelix	-64.86	-43.50	85.8	~~~~
ASG	GLN	A	99	99	H	AlphaHelix	-65.44	-43.81	34.5	~~~~
ASG	THR	A	100	100	H	AlphaHelix	-66.21	-33.89	0.0	~~~~
ASG	GLN	A	101	101	H	AlphaHelix	-66.65	-36.64	69.1	~~~~
ASG	ALA	A	102	102	H	AlphaHelix	-74.33	-40.91	81.9	~~~~
ASG	THR	A	103	103	H	AlphaHelix	-84.01	-26.09	51.8	~~~~
ASG	HIS	A	104	104	C	Coil	49.63	62.59	112.2	~~~~
ASG	PRO	A	105	105	C	Coil	-74.68	-17.86	11.8	~~~~
ASG	GLY	A	106	106	C	Coil	-92.43	125.27	0.3	~~~~
ASG	ASN	A	107	107	C	Coil	-123.64	117.69	68.5	~~~~
ASG	PRO	A	108	108	G	310Helix	-57.94	-24.24	59.0	~~~~
ASG	LYS	A	109	109	G	310Helix	-73.26	-29.44	168.7	~~~~
ASG	LEU	A	110	110	G	310Helix	-81.11	-17.76	53.5	~~~~
ASG	LYS	A	111	111	G	310Helix	-66.45	-34.58	57.7	~~~~
ASG	LYS	A	112	112	G	310Helix	-60.19	-20.47	192.9	~~~~
ASG	GLN	A	113	113	G	310Helix	-87.14	-17.66	112.2	~~~~
ASG	LEU	A	114	114	C	Coil	-92.29	-5.38	36.7	~~~~
ASG	GLY	A	115	115	C	Coil	59.92	154.83	33.3	~~~~
ASG	PRO	A	116	116	C	Coil	-57.44	103.17	120.3	~~~~
ASG	GLY	A	117	117	C	Coil	-27.27	134.98	10.2	~~~~
ASG	LYS	A	118	118	C	Coil	-50.30	124.07	175.0	~~~~
ASG	LYS	A	119	119	C	Coil	-54.34	102.10	174.3	~~~~
ASG	ASN	A	120	120	C	Coil	-57.66	128.32	52.4	~~~~

ASG	ASP	A	121	121	T	Turn	-33.94	110.62	145.2	~~~~
ASG	GLU	A	122	122	T	Turn	-32.42	61.04	198.6	~~~~
ASG	VAL	A	123	123	T	Turn	-69.21	109.47	67.7	~~~~
ASG	SER	A	124	124	C	Coil	-64.26	126.11	49.0	~~~~
ASG	SER	A	125	125	H	AlphaHelix	-52.69	-46.14	38.0	~~~~
ASG	LEU	A	126	126	H	AlphaHelix	-58.25	-34.27	104.3	~~~~
ASG	ASP	A	127	127	H	AlphaHelix	-69.12	-40.89	71.4	~~~~
ASG	ALA	A	128	128	H	AlphaHelix	-63.93	-48.79	14.2	~~~~
ASG	PHE	A	129	129	H	AlphaHelix	-56.95	-49.49	95.6	~~~~
ASG	LEU	A	130	130	H	AlphaHelix	-61.12	-34.17	53.4	~~~~
ASG	ASP	A	131	131	H	AlphaHelix	-64.69	-33.98	24.5	~~~~
ASG	LEU	A	132	132	H	AlphaHelix	-64.62	-48.15	33.5	~~~~
ASG	ILE	A	133	133	H	AlphaHelix	-61.10	-43.25	75.6	~~~~
ASG	ARG	A	134	134	H	AlphaHelix	-60.55	-37.16	114.3	~~~~
ASG	ASN	A	135	135	H	AlphaHelix	-76.40	-23.83	11.0	~~~~
ASG	LEU	A	136	136	H	AlphaHelix	-65.76	-33.54	63.5	~~~~
ASG	PHE	A	137	137	C	Coil	-115.33	77.14	150.4	~~~~
ASG	PRO	A	138	138	T	Turn	-65.59	148.32	36.2	~~~~
ASG	GLU	A	139	139	T	Turn	-70.59	-35.63	158.0	~~~~
ASG	ASN	A	140	140	T	Turn	-138.99	123.04	76.8	~~~~
ASG	LEU	A	141	141	H	AlphaHelix	-64.31	-40.40	45.3	~~~~
ASG	VAL	A	142	142	H	AlphaHelix	-66.20	-40.62	103.3	~~~~
ASG	GLN	A	143	143	H	AlphaHelix	-65.48	-31.27	38.3	~~~~
ASG	ALA	A	144	144	H	AlphaHelix	-66.37	-16.66	3.1	~~~~
ASG	CYS	A	145	145	H	AlphaHelix	-77.66	-21.36	45.0	~~~~
ASG	PHE	A	146	146	C	Coil	-128.72	-9.07	100.6	~~~~
ASG	GLN	A	147	147	E	Strand	-142.24	153.41	41.2	~~~~
ASG	GLN	A	148	148	E	Strand	-130.45	157.36	25.1	~~~~
ASG	ILE	A	149	149	T	Turn	-95.70	130.61	41.0	~~~~
ASG	GLN	A	150	150	T	Turn	-137.21	360.00	112.0	~~~~
ASG	TYR	A	197	151	T	Turn	360.00	126.55	124.1	~~~~
ASG	LYS	A	198	152	E	Strand	-107.77	144.16	122.3	~~~~
ASG	ASP	A	199	153	E	Strand	-67.71	129.43	135.6	~~~~
ASG	GLY	A	200	154	C	Coil	149.68	148.46	27.2	~~~~
ASG	MET	A	201	155	C	Coil	-69.06	124.40	44.3	~~~~
ASG	ASN	A	202	156	C	Coil	-80.59	78.00	5.8	~~~~
ASG	THR	A	203	157	H	AlphaHelix	-62.96	-35.96	7.6	~~~~
ASG	GLN	A	204	158	H	AlphaHelix	-61.09	-50.57	26.2	~~~~
ASG	GLY	A	205	159	H	AlphaHelix	-60.60	-41.22	0.0	~~~~
ASG	GLN	A	206	160	H	AlphaHelix	-65.08	-44.39	3.8	~~~~
ASG	THR	A	207	161	H	AlphaHelix	-61.75	-47.62	6.6	~~~~
ASG	GLY	A	208	162	H	AlphaHelix	-58.34	-45.06	25.7	~~~~
ASG	TYR	A	209	163	H	AlphaHelix	-65.13	-47.88	106.5	~~~~
ASG	TYR	A	210	164	H	AlphaHelix	-77.84	-20.85	21.2	~~~~
ASG	THR	A	211	165	H	AlphaHelix	-63.62	-47.50	33.3	~~~~
ASG	ALA	A	212	166	H	AlphaHelix	-64.67	-41.54	63.7	~~~~
ASG	TYR	A	213	167	H	AlphaHelix	-62.32	-48.84	67.7	~~~~
ASG	GLY	A	214	168	H	AlphaHelix	-60.27	-43.37	0.0	~~~~
ASG	THR	A	215	169	H	AlphaHelix	-61.35	-43.98	42.9	~~~~
ASG	ALA	A	216	170	H	AlphaHelix	-60.91	-41.73	49.7	~~~~
ASG	MET	A	217	171	H	AlphaHelix	-64.38	-39.77	7.1	~~~~
ASG	GLY	A	218	172	H	AlphaHelix	-61.38	-33.92	23.8	~~~~
ASG	LYS	A	219	173	H	AlphaHelix	-77.87	-24.65	155.7	~~~~
ASG	MET	A	220	174	H	AlphaHelix	-75.31	-17.76	95.4	~~~~
ASG	GLY	A	221	175	G	310Helix	63.90	-114.59	42.0	~~~~
ASG	ASP	A	222	176	G	310Helix	-75.14	-30.63	146.6	~~~~
ASG	GLN	A	223	177	G	310Helix	-62.90	-27.66	165.6	~~~~
ASG	ALA	A	224	178	G	310Helix	-98.44	5.60	3.1	~~~~
ASG	LYS	A	225	179	H	AlphaHelix	-58.47	-44.35	129.2	~~~~
ASG	LEU	A	226	180	H	AlphaHelix	-57.86	-46.45	139.1	~~~~
ASG	MET	A	227	181	H	AlphaHelix	-68.41	-41.10	70.7	~~~~
ASG	VAL	A	228	182	H	AlphaHelix	-60.28	-40.98	24.3	~~~~
ASG	ASP	A	229	183	H	AlphaHelix	-66.85	-40.40	77.6	~~~~
ASG	TYR	A	230	184	H	AlphaHelix	-56.11	-52.13	130.2	~~~~
ASG	TYR	A	231	185	H	AlphaHelix	-65.86	-35.79	22.6	~~~~

ASG	ASN	A	232	186	H	AlphaHelix	-59.77	-46.25	64.1	~~~~
ASG	THR	A	233	187	H	AlphaHelix	-62.60	-45.64	89.7	~~~~
ASG	GLN	A	234	188	H	AlphaHelix	-57.68	-41.55	42.6	~~~~
ASG	ASN	A	235	189	H	AlphaHelix	-63.29	-45.52	4.0	~~~~
ASG	GLU	A	236	190	H	AlphaHelix	-61.30	-39.50	76.6	~~~~
ASG	THR	A	237	191	H	AlphaHelix	-63.71	-43.38	70.1	~~~~
ASG	THR	A	238	192	H	AlphaHelix	-64.56	-36.31	3.2	~~~~
ASG	MET	A	239	193	H	AlphaHelix	-65.14	-38.02	19.1	~~~~
ASG	LYS	A	240	194	H	AlphaHelix	-64.47	-39.59	154.3	~~~~
ASG	GLN	A	241	195	H	AlphaHelix	-63.18	-37.31	74.9	~~~~
ASG	THR	A	242	196	H	AlphaHelix	-62.65	-37.29	4.3	~~~~
ASG	THR	A	243	197	H	AlphaHelix	-62.60	-31.60	46.3	~~~~
ASG	MET	A	244	198	H	AlphaHelix	-70.06	-47.17	119.7	~~~~
ASG	THR	A	245	199	H	AlphaHelix	-62.64	-30.78	8.0	~~~~
ASG	MET	A	246	200	H	AlphaHelix	-64.94	-33.16	8.9	~~~~
ASG	TRP	A	247	201	H	AlphaHelix	-72.75	-26.56	126.4	~~~~
ASG	TYR	A	248	202	H	AlphaHelix	-82.53	-13.87	55.9	~~~~
ASG	SER	A	249	203	H	AlphaHelix	-63.61	-44.17	3.2	~~~~
ASG	PRO	A	250	204	H	AlphaHelix	-57.84	-45.56	16.6	~~~~
ASG	GLN	A	251	205	H	AlphaHelix	-68.23	-46.39	115.4	~~~~
ASG	GLY	A	252	206	H	AlphaHelix	-59.78	-45.22	0.0	~~~~
ASG	THR	A	253	207	H	AlphaHelix	-66.79	-42.37	0.0	~~~~
ASG	ALA	A	254	208	H	AlphaHelix	-58.77	-49.23	12.4	~~~~
ASG	CYS	A	255	209	H	AlphaHelix	-69.26	-37.97	28.7	~~~~
ASG	GLN	A	256	210	H	AlphaHelix	-65.28	-48.64	13.5	~~~~
ASG	THR	A	257	211	H	AlphaHelix	-61.64	-44.30	17.6	~~~~
ASG	CYS	A	258	212	H	AlphaHelix	-60.49	-47.66	7.2	~~~~
ASG	GLY	A	259	213	H	AlphaHelix	-61.30	-40.50	3.0	~~~~
ASG	LYS	A	260	214	H	AlphaHelix	-70.31	-35.72	99.7	~~~~
ASG	ILE	A	261	215	H	AlphaHelix	-70.87	-36.83	30.3	~~~~
ASG	ILE	A	262	216	H	AlphaHelix	-71.44	-32.78	8.5	~~~~
ASG	ALA	A	263	217	H	AlphaHelix	-72.81	-8.49	61.8	~~~~
ASG	ILE	A	264	218	T	Turn	-81.47	116.93	31.2	~~~~
ASG	LYS	A	265	219	T	Turn	-76.26	-46.62	204.0	~~~~
ASG	ASP	A	266	220	T	Turn	-141.34	96.43	84.2	~~~~
ASG	LEU	A	267	221	H	AlphaHelix	-73.67	-29.80	63.8	~~~~
ASG	GLU	A	268	222	H	AlphaHelix	-68.20	-44.38	146.1	~~~~
ASG	VAL	A	269	223	H	AlphaHelix	-67.17	-41.33	64.3	~~~~
ASG	VAL	A	270	224	H	AlphaHelix	-62.57	-42.79	36.9	~~~~
ASG	ALA	A	271	225	H	AlphaHelix	-65.56	-43.50	56.7	~~~~
ASG	ARG	A	272	226	H	AlphaHelix	-65.16	-32.10	180.3	~~~~
ASG	GLN	A	273	227	H	AlphaHelix	-104.72	-30.46	40.1	~~~~
ASG	LEU	A	274	228	H	AlphaHelix	-123.22	5.85	5.6	~~~~
ASG	GLY	A	275	229	H	AlphaHelix	-62.42	-46.51	15.5	~~~~
ASG	MET	A	276	230	H	AlphaHelix	-65.29	-41.05	107.8	~~~~
ASG	TYR	A	277	231	H	AlphaHelix	-58.96	-45.46	0.9	~~~~
ASG	MET	A	278	232	H	AlphaHelix	-62.76	-42.24	25.6	~~~~
ASG	THR	A	279	233	H	AlphaHelix	-66.57	-42.60	80.1	~~~~
ASG	THR	A	280	234	H	AlphaHelix	-63.25	-47.81	2.2	~~~~
ASG	THR	A	281	235	H	AlphaHelix	-66.51	-43.46	0.0	~~~~
ASG	THR	A	282	236	H	AlphaHelix	-63.22	-45.27	34.5	~~~~
ASG	THR	A	283	237	H	AlphaHelix	-63.79	-38.97	53.3	~~~~
ASG	GLY	A	284	238	H	AlphaHelix	-62.72	-46.04	0.0	~~~~
ASG	GLN	A	285	239	H	AlphaHelix	-63.72	-40.74	0.2	~~~~
ASG	THR	A	286	240	H	AlphaHelix	-65.94	-43.80	77.0	~~~~
ASG	THR	A	287	241	H	AlphaHelix	-62.61	-45.11	56.0	~~~~
ASG	HIS	A	288	242	H	AlphaHelix	-63.99	-51.50	3.2	~~~~
ASG	GLY	A	289	243	H	AlphaHelix	-69.13	-33.20	15.2	~~~~
ASG	GLY	A	290	244	H	AlphaHelix	-92.09	-24.05	35.0	~~~~
ASG	THR	A	291	245	H	AlphaHelix	-122.83	-56.36	78.0	~~~~
ASG	TYR	A	292	246	H	AlphaHelix	-68.83	-44.49	93.3	~~~~
ASG	GLN	A	293	247	H	AlphaHelix	-63.40	-51.63	1.6	~~~~
ASG	PRO	A	294	248	H	AlphaHelix	-60.22	-36.41	5.4	~~~~
ASG	GLN	A	295	249	H	AlphaHelix	-60.50	-47.40	103.2	~~~~
ASG	THR	A	296	250	H	AlphaHelix	-60.82	-40.23	42.5	~~~~

ASG	TYR	A	297	251	H	AlphaHelix	-63.45	-45.67	14.8	~~~~
ASG	TYR	A	298	252	H	AlphaHelix	-64.38	-42.41	104.4	~~~~
ASG	THR	A	299	253	H	AlphaHelix	-66.15	-32.10	74.7	~~~~
ASG	THR	A	300	254	H	AlphaHelix	-90.00	-39.66	52.1	~~~~
ASG	THR	A	301	255	H	AlphaHelix	-102.90	-20.25	6.8	~~~~
ASG	ARG	A	302	256	C	Coil	58.82	24.22	172.9	~~~~
ASG	LYS	A	303	257	C	Coil	-108.05	153.47	96.4	~~~~
ASG	ASN	A	304	258	C	Coil	-65.06	112.92	95.0	~~~~
ASG	PRO	A	305	259	H	AlphaHelix	-68.44	-28.57	10.2	~~~~
ASG	PHE	A	306	260	H	AlphaHelix	-76.01	-32.42	133.5	~~~~
ASG	SER	A	307	261	H	AlphaHelix	-65.04	-37.19	80.1	~~~~
ASG	PHE	A	308	262	H	AlphaHelix	-63.97	-47.10	11.8	~~~~
ASG	PHE	A	309	263	H	AlphaHelix	-58.05	-37.50	52.5	~~~~
ASG	ALA	A	310	264	H	AlphaHelix	-59.86	-31.65	61.4	~~~~
ASG	GLY	A	311	265	H	AlphaHelix	-74.08	-23.93	12.1	~~~~
ASG	ILE	A	312	266	H	AlphaHelix	-112.08	10.19	0.0	~~~~
ASG	PHE	A	313	267	H	AlphaHelix	-54.66	-39.94	50.1	~~~~
ASG	GLN	A	314	268	H	AlphaHelix	-61.96	-42.08	13.2	~~~~
ASG	ALA	A	315	269	H	AlphaHelix	-62.33	-39.88	0.0	~~~~
ASG	TRP	A	316	270	H	AlphaHelix	-62.66	-45.52	64.1	~~~~
ASG	ILE	A	317	271	H	AlphaHelix	-72.96	-40.26	8.2	~~~~
ASG	THR	A	318	272	H	AlphaHelix	-59.66	-43.63	1.0	~~~~
ASG	ALA	A	319	273	H	AlphaHelix	-62.35	-40.26	0.0	~~~~
ASG	LEU	A	320	274	H	AlphaHelix	-62.57	-37.97	33.1	~~~~
ASG	GLY	A	321	275	H	AlphaHelix	-77.68	-38.66	1.0	~~~~
ASG	THR	A	322	276	H	AlphaHelix	-93.39	-28.74	4.0	~~~~
ASG	ALA	A	323	277	C	Coil	68.02	22.48	8.0	~~~~
ASG	SER	A	324	278	C	Coil	-132.64	122.56	8.6	~~~~
ASG	SER	A	325	279	C	Coil	-69.84	-41.90	6.8	~~~~
ASG	ALA	A	326	280	G	310Helix	-65.71	-38.00	5.8	~~~~
ASG	GLY	A	327	281	G	310Helix	-72.48	-14.22	1.5	~~~~
ASG	THR	A	328	282	G	310Helix	-102.01	-2.54	1.0	~~~~
ASG	LEU	A	329	283	H	AlphaHelix	-59.45	-45.14	5.0	~~~~
ASG	PRO	A	330	284	H	AlphaHelix	-61.09	-44.27	3.0	~~~~
ASG	VAL	A	331	285	H	AlphaHelix	-64.91	-37.14	9.2	~~~~
ASG	THR	A	332	286	H	AlphaHelix	-65.31	-43.25	1.8	~~~~
ASG	PHE	A	333	287	H	AlphaHelix	-56.71	-47.06	0.0	~~~~
ASG	ARG	A	334	288	H	AlphaHelix	-60.24	-47.19	49.5	~~~~
ASG	CYS	A	335	289	H	AlphaHelix	-61.25	-42.36	3.0	~~~~
ASG	LEU	A	336	290	H	AlphaHelix	-75.42	-38.58	0.0	~~~~
ASG	GLU	A	337	291	H	AlphaHelix	-87.58	-43.32	23.3	~~~~
ASG	GLU	A	338	292	H	AlphaHelix	-92.24	-41.42	123.9	~~~~
ASG	ASN	A	339	293	H	AlphaHelix	-80.97	-38.89	81.6	~~~~
ASG	LEU	A	340	294	H	AlphaHelix	-109.60	-12.20	53.4	~~~~
ASG	GLY	A	341	295	C	Coil	74.09	25.82	45.8	~~~~
ASG	ILE	A	342	296	C	Coil	-74.17	137.43	9.1	~~~~
ASG	ASP	A	343	297	C	Coil	-59.33	136.84	54.0	~~~~
ASG	LYS	A	344	298	H	AlphaHelix	-60.69	-30.97	92.0	~~~~
ASG	ARG	A	345	299	H	AlphaHelix	-62.94	-38.77	126.3	~~~~
ASG	THR	A	346	300	H	AlphaHelix	-74.51	-47.77	8.0	~~~~
ASG	THR	A	347	301	H	AlphaHelix	-65.44	-35.23	0.0	~~~~
ASG	ARG	A	348	302	H	AlphaHelix	-75.77	-20.06	2.8	~~~~
ASG	TYR	A	349	303	H	AlphaHelix	-94.40	-49.10	24.7	~~~~
ASG	THR	A	350	304	H	AlphaHelix	-74.39	-32.10	0.0	~~~~
ASG	GLN	A	351	305	H	AlphaHelix	-76.60	-51.91	2.8	~~~~
ASG	PRO	A	352	306	H	AlphaHelix	-63.50	-39.60	2.3	~~~~
ASG	THR	A	353	307	H	AlphaHelix	-63.82	-45.10	11.2	~~~~
ASG	GLY	A	354	308	H	AlphaHelix	-61.29	-39.34	0.0	~~~~
ASG	ALA	A	355	309	H	AlphaHelix	-61.21	-14.75	4.8	~~~~
ASG	THR	A	356	310	H	AlphaHelix	-115.86	-32.93	6.2	~~~~
ASG	THR	A	357	311	H	AlphaHelix	-107.86	-27.81	24.1	~~~~
ASG	ASN	A	358	312	C	Coil	-108.20	77.14	0.4	~~~~
ASG	MET	A	359	313	C	Coil	-112.56	72.04	4.0	~~~~
ASG	ASP	A	360	314	H	AlphaHelix	-57.30	-48.19	0.2	~~~~
ASG	GLY	A	361	315	H	AlphaHelix	-54.02	-41.89	0.0	~~~~

ASG	THR	A	362	316	H	AlphaHelix	-66.61	-46.25	9.2	~~~~
ASG	ALA	A	363	317	H	AlphaHelix	-58.89	-48.01	0.0	~~~~
ASG	GLN	A	364	318	H	AlphaHelix	-60.14	-48.29	0.0	~~~~
ASG	TYR	A	365	319	H	AlphaHelix	-57.47	-46.67	0.0	~~~~
ASG	GLU	A	366	320	H	AlphaHelix	-64.56	-42.22	0.0	~~~~
ASG	ALA	A	367	321	H	AlphaHelix	-63.73	-45.49	0.0	~~~~
ASG	THR	A	368	322	H	AlphaHelix	-62.86	-44.47	0.0	~~~~
ASG	ALA	A	369	323	H	AlphaHelix	-63.54	-46.61	0.0	~~~~
ASG	ALA	A	370	324	H	AlphaHelix	-59.89	-43.66	0.2	~~~~
ASG	THR	A	371	325	H	AlphaHelix	-68.20	-41.35	0.4	~~~~
ASG	TYR	A	372	326	H	AlphaHelix	-57.57	-48.26	5.8	~~~~
ASG	ILE	A	373	327	H	AlphaHelix	-63.26	-40.14	0.8	~~~~
ASG	ALA	A	374	328	H	AlphaHelix	-58.09	-43.14	0.6	~~~~
ASG	GLN	A	375	329	H	AlphaHelix	-67.33	-38.76	11.4	~~~~
ASG	MET	A	376	330	H	AlphaHelix	-66.20	-28.09	2.7	~~~~
ASG	ASN	A	377	331	H	AlphaHelix	-98.71	7.14	43.8	~~~~
ASG	GLY	A	378	332	C	Coil	72.04	18.67	49.8	~~~~
ASG	VAL	A	379	333	C	Coil	-89.28	120.74	56.9	~~~~
ASG	VAL	A	380	334	C	Coil	-88.79	119.11	128.3	~~~~
ASG	LEU	A	381	335	C	Coil	-81.89	115.13	10.7	~~~~
ASG	ASP	A	382	336	C	Coil	-73.95	169.95	91.6	~~~~
ASG	GLY	A	383	337	H	AlphaHelix	-51.45	-39.83	53.6	~~~~
ASG	GLY	A	384	338	H	AlphaHelix	-65.73	-40.73	44.0	~~~~
ASG	GLN	A	385	339	H	AlphaHelix	-68.12	-32.01	58.1	~~~~
ASG	ILE	A	386	340	H	AlphaHelix	-67.23	-45.61	44.5	~~~~
ASG	VAL	A	387	341	H	AlphaHelix	-62.25	-40.62	95.5	~~~~
ASG	THR	A	388	342	H	AlphaHelix	-63.93	-42.65	61.4	~~~~
ASG	VAL	A	389	343	H	AlphaHelix	-62.17	-45.87	0.0	~~~~
ASG	SER	A	390	344	H	AlphaHelix	-63.36	-45.59	8.2	~~~~
ASG	LEU	A	391	345	H	AlphaHelix	-67.17	-42.81	100.9	~~~~
ASG	THR	A	392	346	H	AlphaHelix	-65.89	-38.86	20.0	~~~~
ASG	ALA	A	393	347	H	AlphaHelix	-63.72	-41.24	0.0	~~~~
ASG	THR	A	394	348	H	AlphaHelix	-61.51	-44.64	1.0	~~~~
ASG	LEU	A	395	349	H	AlphaHelix	-69.32	-37.35	89.8	~~~~
ASG	ALA	A	396	350	H	AlphaHelix	-67.47	-27.32	1.2	~~~~
ASG	SER	A	397	351	H	AlphaHelix	-79.10	-28.62	0.0	~~~~
ASG	VAL	A	398	352	H	AlphaHelix	-62.26	-11.96	45.0	~~~~
ASG	GLY	A	399	353	C	Coil	-129.15	0.69	5.4	~~~~
ASG	ALA	A	400	354	C	Coil	-66.28	127.72	1.4	~~~~
ASG	ALA	A	401	355	C	Coil	-59.00	130.85	24.8	~~~~
ASG	SER	A	402	356	C	Coil	-73.77	32.32	5.1	~~~~
ASG	ILE	A	403	357	T	Turn	-106.48	157.99	64.7	~~~~
ASG	PRO	A	404	358	T	Turn	-58.15	131.86	45.7	~~~~
ASG	SER	A	405	359	T	Turn	77.01	12.48	53.9	~~~~
ASG	ALA	A	406	360	H	AlphaHelix	-63.95	-21.71	9.8	~~~~
ASG	GLY	A	407	361	H	AlphaHelix	-63.88	-25.36	3.7	~~~~
ASG	LEU	A	408	362	H	AlphaHelix	-74.08	-32.23	27.5	~~~~
ASG	VAL	A	409	363	H	AlphaHelix	-69.40	-39.23	78.9	~~~~
ASG	THR	A	410	364	H	AlphaHelix	-79.87	-15.29	10.9	~~~~
ASG	MET	A	411	365	H	AlphaHelix	-66.66	-29.42	0.0	~~~~
ASG	LEU	A	412	366	H	AlphaHelix	-64.52	-38.37	20.8	~~~~
ASG	LEU	A	413	367	H	AlphaHelix	-62.45	-39.33	17.6	~~~~
ASG	ILE	A	414	368	H	AlphaHelix	-75.27	-46.23	0.0	~~~~
ASG	LEU	A	415	369	H	AlphaHelix	-61.92	-39.87	0.0	~~~~
ASG	THR	A	416	370	H	AlphaHelix	-69.95	-41.56	48.1	~~~~
ASG	ALA	A	417	371	H	AlphaHelix	-58.24	-30.29	52.2	~~~~
ASG	VAL	A	418	372	H	AlphaHelix	-104.64	-3.98	18.9	~~~~
ASG	GLY	A	419	373	C	Coil	81.30	29.74	66.4	~~~~
ASG	LEU	A	420	374	C	Coil	-97.22	153.08	10.0	~~~~
ASG	PRO	A	421	375	T	Turn	-65.22	130.80	41.5	~~~~
ASG	THR	A	422	376	T	Turn	-86.82	-13.68	31.0	~~~~
ASG	GLU	A	423	377	T	Turn	-68.41	-19.97	59.3	~~~~
ASG	ASP	A	424	378	H	AlphaHelix	-84.15	-3.17	3.9	~~~~
ASG	ILE	A	425	379	H	AlphaHelix	-64.11	-31.31	8.0	~~~~
ASG	SER	A	426	380	H	AlphaHelix	-58.82	-26.61	44.7	~~~~

ASG	LEU	A	427	381	H	AlphaHelix	-68.86	-33.47	25.5	~~~~
ASG	LEU	A	428	382	H	AlphaHelix	-77.25	-24.11	0.4	~~~~
ASG	VAL	A	429	383	H	AlphaHelix	-61.66	-31.00	78.2	~~~~
ASG	ALA	A	430	384	H	AlphaHelix	-66.38	-28.62	52.6	~~~~
ASG	VAL	A	431	385	H	AlphaHelix	-115.58	-0.81	0.6	~~~~
ASG	ASP	A	432	386	H	AlphaHelix	-62.59	-33.09	2.0	~~~~
ASG	TRP	A	433	387	H	AlphaHelix	-55.84	-44.26	71.6	~~~~
ASG	GLN	A	434	388	H	AlphaHelix	-73.01	-49.77	70.4	~~~~
ASG	GLN	A	435	389	H	AlphaHelix	-62.11	-33.32	0.0	~~~~
ASG	ASP	A	436	390	H	AlphaHelix	-60.79	-35.54	9.8	~~~~
ASG	ARG	A	437	391	H	AlphaHelix	-67.57	-43.99	25.5	~~~~
ASG	MET	A	438	392	H	AlphaHelix	-65.76	-37.96	37.1	~~~~
ASG	ARG	A	439	393	H	AlphaHelix	-63.33	-48.78	0.8	~~~~
ASG	THR	A	440	394	H	AlphaHelix	-62.88	-40.26	6.4	~~~~
ASG	SER	A	441	395	H	AlphaHelix	-64.51	-43.09	0.6	~~~~
ASG	THR	A	442	396	H	AlphaHelix	-63.34	-41.96	6.0	~~~~
ASG	ASN	A	443	397	H	AlphaHelix	-62.30	-46.46	3.4	~~~~
ASG	THR	A	444	398	H	AlphaHelix	-62.33	-42.72	3.6	~~~~
ASG	THR	A	445	399	H	AlphaHelix	-64.32	-45.97	3.0	~~~~
ASG	GLY	A	446	400	H	AlphaHelix	-57.81	-43.61	0.2	~~~~
ASG	ASP	A	447	401	H	AlphaHelix	-63.12	-36.30	4.2	~~~~
ASG	SER	A	448	402	H	AlphaHelix	-69.00	-46.38	0.0	~~~~
ASG	TYR	A	449	403	H	AlphaHelix	-58.85	-39.49	1.4	~~~~
ASG	GLY	A	450	404	H	AlphaHelix	-57.73	-43.59	0.0	~~~~
ASG	ALA	A	451	405	H	AlphaHelix	-62.73	-45.35	0.0	~~~~
ASG	GLY	A	452	406	H	AlphaHelix	-61.46	-44.44	3.3	~~~~
ASG	THR	A	453	407	H	AlphaHelix	-65.17	-46.71	3.6	~~~~
ASG	THR	A	454	408	H	AlphaHelix	-63.86	-40.67	1.2	~~~~
ASG	TYR	A	455	409	H	AlphaHelix	-62.04	-46.35	54.1	~~~~
ASG	HIS	A	456	410	H	AlphaHelix	-59.89	-38.06	66.4	~~~~
ASG	LEU	A	457	411	H	AlphaHelix	-82.36	-23.54	76.8	~~~~
ASG	SER	A	458	412	H	AlphaHelix	-98.82	-6.92	43.0	~~~~
ASG	LYS	A	459	413	C	Coil	-59.34	360.00	155.6	~~~~