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REM ----- Secondary structure summary ----- ~~~~
REM ~~~~
CHN /home/proj/stride/tmp/tmpeni1hjpd A ~~~~
REM ~~~~
REM ~~~~
SEQ 1 SYLFRNAYTQQTTTATTTGTTQGYTQRPYRMSYREVKYFSFPGEQQMRMQ 50 ~~~~
STR GGG HHHHHHHHHHHHHHHHHHHHHGGG HHHHHHHHHHHHHHHHHHH ~~~~
REM ~~~~
REM ~~~~
SEQ 51 QMQTQPQTSSQTGMAALDSKASGKMGMRATTYYMTTTTATTTGTTTT 100 ~~~~
STR HHHHHHHHHHHHHHHHHHH HHHHHHHHHHHHHHHHHHHHHHHHHHHHH ~~~~
REM ~~~~
REM ~~~~
SEQ 101 TTHPGKGTKENMHREGKIVRVTAADAFDLIRNMFPPNLVEACFKTNGT 150 ~~~~
STR HHHHTTTT TTTTTT HHHHHHHHHHHHH TTTTGGGGTTTTT ~~~~
REM ~~~~
REM ~~~~
SEQ 151 NAQGQTTYSMCYGYTTGNMKEQGQALREYYSQNEATMRQTATTMWYAPT 200 ~~~~
STR HHHHHHHHHHHHHHHHHHHGGGGHHHHHHHHHHHHHHHHHHHHHHHHHHHH ~~~~
REM ~~~~
REM ~~~~
SEQ 201 GTQYQTAGKIVEMEDMGVIGGQLAMYTTTTTTGQQTHATTTQPQQYYQTT 250 ~~~~
STR HHHHHHHHHHHHH GGG HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH ~~~~
REM ~~~~
REM ~~~~
SEQ 251 RKNPWVFIGLLQALITALGTSSSSATLPITFKCLEENNGVDKRTTRYTQ 300 ~~~~
STR HHHHHHHHHHHHHHHHHHH GGGGHHHHHHHHHHHH HHHHHHHHH ~~~~
REM ~~~~
REM ~~~~
SEQ 301 PTGATTNMDGTAQYEAQAATYTAQVNNFELNFGQIITISITATAASIGAA 350 ~~~~
STR HHHHHH HHHHHHHHHHHHHHHHHHH HHHHHHHHHHHHHHHHTTT ~~~~
REM ~~~~
REM ~~~~
SEQ 351 GIPQAGLVTMVIVLTSVGLPTDDITLIIAVDWYQDRQRTTNTQGDSQGA 400 ~~~~
STR TTTTHHHHHHHHHHHHH GGGGG GGGHHHHHHHHHHHHHHHHHHHHHHHHHH ~~~~
REM ~~~~
REM ~~~~
SEQ 401 GTTEHLR 408 ~~~~
STR HHHHHHH ~~~~
REM ~~~~
REM ~~~~
LOC AlphaHelix ASN 6 A GLN 26 A ~~~~
LOC AlphaHelix TYR 33 A ALA 68 A ~~~~
LOC AlphaHelix SER 71 A THR 103 A ~~~~
LOC AlphaHelix ALA 124 A MET 135 A ~~~~
LOC AlphaHelix ALA 201 A MET 218 A ~~~~
LOC AlphaHelix GLN 223 A GLU 261 A ~~~~
LOC AlphaHelix GLY 270 A THR 299 A ~~~~
LOC AlphaHelix PRO 303 A THR 320 A ~~~~
LOC AlphaHelix LEU 327 A ASN 338 A ~~~~
LOC AlphaHelix LYS 342 A THR 355 A ~~~~
LOC AlphaHelix ASP 358 A ASN 375 A ~~~~
LOC AlphaHelix PHE 381 A SER 395 A ~~~~
LOC AlphaHelix ALA 404 A SER 415 A ~~~~
LOC AlphaHelix ASP 430 A SER 456 A ~~~~
LOC 310Helix TYR 2 A PHE 4 A ~~~~
LOC 310Helix ARG 27 A TYR 29 A ~~~~
LOC 310Helix VAL 141 A CYS 144 A ~~~~
LOC 310Helix LYS 219 A GLY 222 A ~~~~
LOC 310Helix MET 265 A VAL 267 A ~~~~
LOC 310Helix SER 323 A THR 326 A ~~~~
LOC 310Helix ASP 421 A LEU 425 A ~~~~
LOC 310Helix ILE 427 A VAL 429 A ~~~~

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LOC	TurnI	HIS	104	A	LYS	107	A	~~~~
LOC	TurnI	THR	109	A	ASN	112	A	~~~~
LOC	TurnI	LYS	110	A	MET	113	A	~~~~
LOC	TurnVIII	PRO	137	A	LEU	140	A	~~~~
LOC	TurnIV	PHE	145	A	ASN	197	A	~~~~
LOC	TurnIV	LYS	146	A	GLY	198	A	~~~~
LOC	TurnIV	SER	395	A	ALA	398	A	~~~~
LOC	TurnII	ILE	401	A	ALA	404	A	~~~~

REM ~~~~~

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

REM ~~~~~

REM	---Residue---		--Structure--		-Phi-	-Psi-	-Area-	~~~~~		
ASG	SER	A	1	1	C	Coil	360.00	97.93	103.4	~~~~~
ASG	TYR	A	2	2	G	310Helix	-17.98	-35.15	172.9	~~~~~
ASG	LEU	A	3	3	G	310Helix	-72.16	-37.52	103.8	~~~~~
ASG	PHE	A	4	4	G	310Helix	-78.13	-32.26	174.0	~~~~~
ASG	ARG	A	5	5	C	Coil	-72.99	-25.42	196.9	~~~~~
ASG	ASN	A	6	6	H	AlphaHelix	-118.77	16.10	39.1	~~~~~
ASG	ALA	A	7	7	H	AlphaHelix	-52.64	-37.66	22.3	~~~~~
ASG	TYR	A	8	8	H	AlphaHelix	-70.71	-42.70	52.7	~~~~~
ASG	THR	A	9	9	H	AlphaHelix	-64.23	-43.55	14.8	~~~~~
ASG	GLN	A	10	10	H	AlphaHelix	-64.48	-39.22	73.5	~~~~~
ASG	GLN	A	11	11	H	AlphaHelix	-67.05	-43.49	80.5	~~~~~
ASG	THR	A	12	12	H	AlphaHelix	-67.63	-40.72	2.2	~~~~~
ASG	THR	A	13	13	H	AlphaHelix	-62.75	-44.63	53.3	~~~~~
ASG	THR	A	14	14	H	AlphaHelix	-61.50	-42.00	84.9	~~~~~
ASG	ALA	A	15	15	H	AlphaHelix	-61.94	-40.51	4.9	~~~~~
ASG	THR	A	16	16	H	AlphaHelix	-64.60	-46.94	25.3	~~~~~
ASG	THR	A	17	17	H	AlphaHelix	-60.64	-45.74	85.2	~~~~~
ASG	THR	A	18	18	H	AlphaHelix	-66.57	-39.89	54.2	~~~~~
ASG	GLY	A	19	19	H	AlphaHelix	-59.36	-45.52	0.0	~~~~~
ASG	THR	A	20	20	H	AlphaHelix	-59.35	-49.29	46.7	~~~~~
ASG	THR	A	21	21	H	AlphaHelix	-58.54	-45.57	83.6	~~~~~
ASG	GLN	A	22	22	H	AlphaHelix	-62.19	-46.23	42.9	~~~~~
ASG	GLY	A	23	23	H	AlphaHelix	-54.87	-45.67	0.0	~~~~~
ASG	TYR	A	24	24	H	AlphaHelix	-70.84	-33.77	129.1	~~~~~
ASG	THR	A	25	25	H	AlphaHelix	-68.80	-33.86	78.9	~~~~~
ASG	GLN	A	26	26	H	AlphaHelix	-86.52	-8.56	52.6	~~~~~
ASG	ARG	A	27	27	G	310Helix	-67.64	-43.19	63.7	~~~~~
ASG	PRO	A	28	28	G	310Helix	-62.56	-14.88	103.1	~~~~~
ASG	TYR	A	29	29	G	310Helix	-82.81	-5.70	160.0	~~~~~
ASG	ARG	A	30	30	C	Coil	39.05	63.81	230.6	~~~~~
ASG	MET	A	31	31	C	Coil	-62.68	138.93	41.7	~~~~~
ASG	SER	A	32	32	C	Coil	-61.24	159.04	58.8	~~~~~
ASG	TYR	A	33	33	H	AlphaHelix	-49.64	-43.38	171.0	~~~~~
ASG	ARG	A	34	34	H	AlphaHelix	-64.70	-41.50	165.9	~~~~~
ASG	GLU	A	35	35	H	AlphaHelix	-66.65	-39.96	101.8	~~~~~
ASG	VAL	A	36	36	H	AlphaHelix	-64.03	-40.58	17.2	~~~~~
ASG	LYS	A	37	37	H	AlphaHelix	-62.52	-41.90	86.6	~~~~~
ASG	TYR	A	38	38	H	AlphaHelix	-67.60	-41.54	138.8	~~~~~
ASG	PHE	A	39	39	H	AlphaHelix	-62.63	-40.06	33.2	~~~~~
ASG	SER	A	40	40	H	AlphaHelix	-91.35	3.31	21.7	~~~~~
ASG	PHE	A	41	41	H	AlphaHelix	-58.47	-45.78	99.6	~~~~~
ASG	PRO	A	42	42	H	AlphaHelix	-58.89	-39.57	28.7	~~~~~
ASG	GLY	A	43	43	H	AlphaHelix	-60.95	-40.94	0.6	~~~~~
ASG	GLU	A	44	44	H	AlphaHelix	-61.71	-40.77	51.3	~~~~~
ASG	GLN	A	45	45	H	AlphaHelix	-59.97	-41.22	64.9	~~~~~
ASG	GLN	A	46	46	H	AlphaHelix	-60.49	-46.45	2.4	~~~~~
ASG	MET	A	47	47	H	AlphaHelix	-59.87	-39.04	36.5	~~~~~
ASG	ARG	A	48	48	H	AlphaHelix	-67.73	-41.22	139.1	~~~~~
ASG	MET	A	49	49	H	AlphaHelix	-61.84	-37.26	44.8	~~~~~
ASG	GLN	A	50	50	H	AlphaHelix	-74.22	-42.74	5.2	~~~~~
ASG	GLN	A	51	51	H	AlphaHelix	-63.77	-31.17	97.6	~~~~~
ASG	MET	A	52	52	H	AlphaHelix	-63.91	-25.53	121.8	~~~~~
ASG	GLN	A	53	53	H	AlphaHelix	-100.19	-20.14	2.4	~~~~~

ASG	THR	A	54	54	H	AlphaHelix	-61.68	-40.08	4.6	~~~~
ASG	GLN	A	55	55	H	AlphaHelix	-74.70	-54.10	30.8	~~~~
ASG	PRO	A	56	56	H	AlphaHelix	-58.43	-34.77	44.3	~~~~
ASG	GLN	A	57	57	H	AlphaHelix	-69.37	-46.21	0.0	~~~~
ASG	THR	A	58	58	H	AlphaHelix	-62.00	-45.81	8.0	~~~~
ASG	THR	A	59	59	H	AlphaHelix	-67.40	-47.94	34.7	~~~~
ASG	SER	A	60	60	H	AlphaHelix	-70.14	-44.57	0.0	~~~~
ASG	SER	A	61	61	H	AlphaHelix	-66.97	-44.05	0.0	~~~~
ASG	GLN	A	62	62	H	AlphaHelix	-65.03	-44.47	0.0	~~~~
ASG	THR	A	63	63	H	AlphaHelix	-61.20	-46.69	0.6	~~~~
ASG	THR	A	64	64	H	AlphaHelix	-70.21	-41.07	3.5	~~~~
ASG	GLY	A	65	65	H	AlphaHelix	-54.36	-45.62	0.4	~~~~
ASG	MET	A	66	66	H	AlphaHelix	-74.91	-36.20	20.4	~~~~
ASG	ALA	A	67	67	H	AlphaHelix	-73.58	-28.53	6.3	~~~~
ASG	ALA	A	68	68	H	AlphaHelix	-79.50	-15.37	19.5	~~~~
ASG	LEU	A	69	69	C	Coil	-101.43	135.45	25.3	~~~~
ASG	ASP	A	70	70	C	Coil	-59.53	149.80	130.0	~~~~
ASG	SER	A	71	71	H	AlphaHelix	-51.43	-40.32	56.2	~~~~
ASG	LYS	A	72	72	H	AlphaHelix	-70.47	-42.83	156.4	~~~~
ASG	ALA	A	73	73	H	AlphaHelix	-66.64	-40.48	41.5	~~~~
ASG	SER	A	74	74	H	AlphaHelix	-62.21	-37.59	11.3	~~~~
ASG	GLY	A	75	75	H	AlphaHelix	-66.08	-42.58	42.2	~~~~
ASG	LYS	A	76	76	H	AlphaHelix	-66.63	-47.11	100.8	~~~~
ASG	MET	A	77	77	H	AlphaHelix	-58.54	-45.38	6.8	~~~~
ASG	GLY	A	78	78	H	AlphaHelix	-59.69	-43.63	7.2	~~~~
ASG	MET	A	79	79	H	AlphaHelix	-62.26	-43.24	123.7	~~~~
ASG	ARG	A	80	80	H	AlphaHelix	-63.98	-43.01	83.5	~~~~
ASG	ALA	A	81	81	H	AlphaHelix	-63.87	-45.14	1.4	~~~~
ASG	THR	A	82	82	H	AlphaHelix	-62.43	-42.97	77.0	~~~~
ASG	THR	A	83	83	H	AlphaHelix	-61.21	-45.42	80.9	~~~~
ASG	TYR	A	84	84	H	AlphaHelix	-58.46	-46.19	18.8	~~~~
ASG	TYR	A	85	85	H	AlphaHelix	-62.20	-42.04	12.4	~~~~
ASG	MET	A	86	86	H	AlphaHelix	-68.39	-40.35	89.2	~~~~
ASG	THR	A	87	87	H	AlphaHelix	-68.95	-44.00	72.1	~~~~
ASG	THR	A	88	88	H	AlphaHelix	-71.44	-38.12	1.2	~~~~
ASG	THR	A	89	89	H	AlphaHelix	-68.31	-39.93	3.2	~~~~
ASG	THR	A	90	90	H	AlphaHelix	-65.23	-43.43	64.9	~~~~
ASG	THR	A	91	91	H	AlphaHelix	-64.30	-32.94	40.8	~~~~
ASG	ALA	A	92	92	H	AlphaHelix	-66.74	-45.58	0.0	~~~~
ASG	THR	A	93	93	H	AlphaHelix	-65.43	-35.80	0.0	~~~~
ASG	THR	A	94	94	H	AlphaHelix	-66.72	-46.40	68.4	~~~~
ASG	THR	A	95	95	H	AlphaHelix	-58.42	-43.99	26.0	~~~~
ASG	GLY	A	96	96	H	AlphaHelix	-63.05	-46.48	0.0	~~~~
ASG	THR	A	97	97	H	AlphaHelix	-64.40	-41.23	6.8	~~~~
ASG	THR	A	98	98	H	AlphaHelix	-65.25	-42.66	75.7	~~~~
ASG	THR	A	99	99	H	AlphaHelix	-65.01	-42.30	23.6	~~~~
ASG	THR	A	100	100	H	AlphaHelix	-76.74	-34.98	0.0	~~~~
ASG	THR	A	101	101	H	AlphaHelix	-68.27	-33.49	50.7	~~~~
ASG	THR	A	102	102	H	AlphaHelix	-77.17	-41.63	102.8	~~~~
ASG	THR	A	103	103	H	AlphaHelix	-82.64	-29.65	60.2	~~~~
ASG	HIS	A	104	104	T	Turn	53.49	62.32	98.2	~~~~
ASG	PRO	A	105	105	T	Turn	-72.59	-14.83	4.1	~~~~
ASG	GLY	A	106	106	T	Turn	-96.33	10.20	0.0	~~~~
ASG	LYS	A	107	107	T	Turn	-67.97	106.11	178.7	~~~~
ASG	GLY	A	108	108	C	Coil	149.20	179.01	28.7	~~~~
ASG	THR	A	109	109	T	Turn	-92.93	143.19	88.4	~~~~
ASG	LYS	A	110	110	T	Turn	-64.75	-8.37	52.3	~~~~
ASG	GLU	A	111	111	T	Turn	-68.69	-18.23	168.3	~~~~
ASG	ASN	A	112	112	T	Turn	-113.86	13.22	147.9	~~~~
ASG	MET	A	113	113	T	Turn	-99.68	123.01	29.9	~~~~
ASG	HIS	A	114	114	C	Coil	-74.55	121.77	144.1	~~~~
ASG	ARG	A	115	115	C	Coil	-91.31	121.86	129.9	~~~~
ASG	GLU	A	116	116	C	Coil	-109.90	125.12	56.0	~~~~
ASG	GLY	A	117	117	C	Coil	98.48	156.20	61.0	~~~~
ASG	LYS	A	118	118	C	Coil	-105.09	115.97	211.6	~~~~

ASG	ILE	A	119	119	C	Coil	-90.00	127.35	39.3	~~~~
ASG	VAL	A	120	120	C	Coil	-66.99	111.99	117.6	~~~~
ASG	ARG	A	121	121	C	Coil	-56.41	97.37	200.0	~~~~
ASG	VAL	A	122	122	C	Coil	-103.26	129.47	49.4	~~~~
ASG	THR	A	123	123	C	Coil	-69.08	146.09	74.7	~~~~
ASG	ALA	A	124	124	H	AlphaHelix	-55.54	-41.21	27.2	~~~~
ASG	ALA	A	125	125	H	AlphaHelix	-62.72	-43.55	63.8	~~~~
ASG	ASP	A	126	126	H	AlphaHelix	-66.74	-40.93	75.2	~~~~
ASG	ALA	A	127	127	H	AlphaHelix	-60.66	-46.91	4.6	~~~~
ASG	PHE	A	128	128	H	AlphaHelix	-60.71	-46.23	100.8	~~~~
ASG	LEU	A	129	129	H	AlphaHelix	-62.75	-33.68	71.4	~~~~
ASG	ASP	A	130	130	H	AlphaHelix	-61.90	-34.48	66.7	~~~~
ASG	LEU	A	131	131	H	AlphaHelix	-63.69	-42.76	20.4	~~~~
ASG	ILE	A	132	132	H	AlphaHelix	-66.99	-43.17	73.6	~~~~
ASG	ARG	A	133	133	H	AlphaHelix	-60.58	-33.78	143.3	~~~~
ASG	ASN	A	134	134	H	AlphaHelix	-76.04	-18.84	66.1	~~~~
ASG	MET	A	135	135	H	AlphaHelix	-68.92	-32.02	63.9	~~~~
ASG	PHE	A	136	136	C	Coil	-122.78	76.10	142.1	~~~~
ASG	PRO	A	137	137	T	Turn	-68.39	148.20	26.5	~~~~
ASG	PRO	A	138	138	T	Turn	-67.83	-31.05	126.2	~~~~
ASG	ASN	A	139	139	T	Turn	-139.81	123.03	76.4	~~~~
ASG	LEU	A	140	140	T	Turn	-66.31	-35.71	56.5	~~~~
ASG	VAL	A	141	141	G	310Helix	-66.95	-39.26	100.3	~~~~
ASG	GLU	A	142	142	G	310Helix	-65.94	-33.37	78.9	~~~~
ASG	ALA	A	143	143	G	310Helix	-64.60	-16.26	2.0	~~~~
ASG	CYS	A	144	144	G	310Helix	-77.36	-22.49	55.3	~~~~
ASG	PHE	A	145	145	T	Turn	-134.95	3.14	107.5	~~~~
ASG	LYS	A	146	146	T	Turn	-143.20	360.00	108.2	~~~~
ASG	THR	A	196	147	T	Turn	360.00	139.95	158.1	~~~~
ASG	ASN	A	197	148	T	Turn	-64.98	125.68	135.9	~~~~
ASG	GLY	A	198	149	T	Turn	154.30	158.83	25.0	~~~~
ASG	THR	A	199	150	C	Coil	-72.39	121.99	42.1	~~~~
ASG	ASN	A	200	151	C	Coil	-75.51	77.09	12.2	~~~~
ASG	ALA	A	201	152	H	AlphaHelix	-60.62	-32.23	7.6	~~~~
ASG	GLN	A	202	153	H	AlphaHelix	-66.79	-49.47	14.0	~~~~
ASG	GLY	A	203	154	H	AlphaHelix	-61.65	-40.65	0.0	~~~~
ASG	GLN	A	204	155	H	AlphaHelix	-66.17	-43.18	6.5	~~~~
ASG	THR	A	205	156	H	AlphaHelix	-63.30	-47.51	2.6	~~~~
ASG	THR	A	206	157	H	AlphaHelix	-59.86	-47.09	27.0	~~~~
ASG	TYR	A	207	158	H	AlphaHelix	-61.86	-49.83	93.2	~~~~
ASG	SER	A	208	159	H	AlphaHelix	-58.70	-34.40	0.6	~~~~
ASG	MET	A	209	160	H	AlphaHelix	-67.06	-48.13	36.2	~~~~
ASG	CYS	A	210	161	H	AlphaHelix	-64.75	-42.39	71.0	~~~~
ASG	TYR	A	211	162	H	AlphaHelix	-63.94	-45.58	62.2	~~~~
ASG	GLY	A	212	163	H	AlphaHelix	-59.25	-42.16	0.0	~~~~
ASG	TYR	A	213	164	H	AlphaHelix	-58.95	-47.76	112.8	~~~~
ASG	THR	A	214	165	H	AlphaHelix	-64.71	-43.87	77.2	~~~~
ASG	THR	A	215	166	H	AlphaHelix	-60.96	-40.30	4.3	~~~~
ASG	GLY	A	216	167	H	AlphaHelix	-65.67	-32.26	26.0	~~~~
ASG	ASN	A	217	168	H	AlphaHelix	-81.88	-15.18	73.7	~~~~
ASG	MET	A	218	169	H	AlphaHelix	-75.45	-10.71	67.6	~~~~
ASG	LYS	A	219	170	G	310Helix	55.00	-105.67	176.0	~~~~
ASG	GLU	A	220	171	G	310Helix	-75.79	-32.40	169.8	~~~~
ASG	GLN	A	221	172	G	310Helix	-70.63	-24.77	160.4	~~~~
ASG	GLY	A	222	173	G	310Helix	-93.39	-1.30	1.4	~~~~
ASG	GLN	A	223	174	H	AlphaHelix	-63.45	-42.05	105.0	~~~~
ASG	ALA	A	224	175	H	AlphaHelix	-58.77	-40.53	69.0	~~~~
ASG	LEU	A	225	176	H	AlphaHelix	-71.62	-40.94	53.9	~~~~
ASG	ARG	A	226	177	H	AlphaHelix	-60.09	-43.18	109.4	~~~~
ASG	GLU	A	227	178	H	AlphaHelix	-68.01	-40.41	105.3	~~~~
ASG	TYR	A	228	179	H	AlphaHelix	-57.91	-52.93	138.3	~~~~
ASG	TYR	A	229	180	H	AlphaHelix	-65.80	-37.53	29.5	~~~~
ASG	ASP	A	230	181	H	AlphaHelix	-59.81	-48.66	68.9	~~~~
ASG	SER	A	231	182	H	AlphaHelix	-60.35	-42.72	76.8	~~~~
ASG	GLN	A	232	183	H	AlphaHelix	-59.97	-44.25	50.9	~~~~

ASG	ASN	A	233	184	H	AlphaHelix	-62.07	-41.52	0.0	~~~~
ASG	GLU	A	234	185	H	AlphaHelix	-65.03	-43.11	65.3	~~~~
ASG	ALA	A	235	186	H	AlphaHelix	-59.42	-41.22	51.5	~~~~
ASG	THR	A	236	187	H	AlphaHelix	-67.07	-38.88	4.8	~~~~
ASG	MET	A	237	188	H	AlphaHelix	-64.27	-37.00	10.4	~~~~
ASG	ARG	A	238	189	H	AlphaHelix	-66.73	-38.85	174.8	~~~~
ASG	GLN	A	239	190	H	AlphaHelix	-62.85	-38.92	102.8	~~~~
ASG	THR	A	240	191	H	AlphaHelix	-62.80	-36.21	0.2	~~~~
ASG	ALA	A	241	192	H	AlphaHelix	-62.97	-35.33	25.0	~~~~
ASG	THR	A	242	193	H	AlphaHelix	-70.96	-45.27	101.0	~~~~
ASG	THR	A	243	194	H	AlphaHelix	-66.27	-26.30	19.8	~~~~
ASG	MET	A	244	195	H	AlphaHelix	-63.63	-22.64	7.3	~~~~
ASG	TRP	A	245	196	H	AlphaHelix	-72.02	-31.22	157.1	~~~~
ASG	TYR	A	246	197	H	AlphaHelix	-80.41	-9.81	72.4	~~~~
ASG	ALA	A	247	198	H	AlphaHelix	-61.13	-45.73	2.6	~~~~
ASG	PRO	A	248	199	H	AlphaHelix	-59.00	-46.26	16.8	~~~~
ASG	THR	A	249	200	H	AlphaHelix	-64.73	-47.95	64.0	~~~~
ASG	GLY	A	250	201	H	AlphaHelix	-56.67	-47.18	0.0	~~~~
ASG	THR	A	251	202	H	AlphaHelix	-64.36	-43.26	0.6	~~~~
ASG	GLN	A	252	203	H	AlphaHelix	-54.77	-50.74	46.5	~~~~
ASG	TYR	A	253	204	H	AlphaHelix	-80.85	-24.86	66.7	~~~~
ASG	GLN	A	254	205	H	AlphaHelix	-66.15	-47.14	9.2	~~~~
ASG	THR	A	255	206	H	AlphaHelix	-64.99	-45.98	23.9	~~~~
ASG	ALA	A	256	207	H	AlphaHelix	-62.26	-49.67	0.0	~~~~
ASG	GLY	A	257	208	H	AlphaHelix	-56.33	-38.93	1.8	~~~~
ASG	LYS	A	258	209	H	AlphaHelix	-73.96	-39.37	73.2	~~~~
ASG	ILE	A	259	210	H	AlphaHelix	-61.90	-38.59	12.4	~~~~
ASG	VAL	A	260	211	H	AlphaHelix	-67.83	-36.71	19.8	~~~~
ASG	GLU	A	261	212	H	AlphaHelix	-76.24	-18.56	109.4	~~~~
ASG	MET	A	262	213	C	Coil	-59.87	133.25	32.8	~~~~
ASG	GLU	A	263	214	C	Coil	-71.94	140.05	112.7	~~~~
ASG	ASP	A	264	215	C	Coil	-48.57	105.17	95.2	~~~~
ASG	MET	A	265	216	G	310Helix	-54.29	-22.88	71.1	~~~~
ASG	GLY	A	266	217	G	310Helix	-64.41	-13.55	66.9	~~~~
ASG	VAL	A	267	218	G	310Helix	-97.09	0.71	118.3	~~~~
ASG	ILE	A	268	219	C	Coil	-78.97	102.47	32.3	~~~~
ASG	GLY	A	269	220	C	Coil	-27.04	138.26	42.2	~~~~
ASG	GLY	A	270	221	H	AlphaHelix	-42.76	-40.55	58.3	~~~~
ASG	GLN	A	271	222	H	AlphaHelix	-71.04	-42.53	35.5	~~~~
ASG	LEU	A	272	223	H	AlphaHelix	-65.13	-35.17	18.4	~~~~
ASG	ALA	A	273	224	H	AlphaHelix	-64.52	-45.81	37.9	~~~~
ASG	MET	A	274	225	H	AlphaHelix	-61.14	-43.83	98.2	~~~~
ASG	TYR	A	275	226	H	AlphaHelix	-56.65	-49.35	0.0	~~~~
ASG	THR	A	276	227	H	AlphaHelix	-60.63	-42.33	7.2	~~~~
ASG	THR	A	277	228	H	AlphaHelix	-67.42	-43.15	82.5	~~~~
ASG	THR	A	278	229	H	AlphaHelix	-63.92	-47.68	5.1	~~~~
ASG	THR	A	279	230	H	AlphaHelix	-65.79	-38.24	0.0	~~~~
ASG	THR	A	280	231	H	AlphaHelix	-63.72	-42.96	23.1	~~~~
ASG	THR	A	281	232	H	AlphaHelix	-63.76	-44.03	71.0	~~~~
ASG	GLY	A	282	233	H	AlphaHelix	-60.36	-44.61	0.0	~~~~
ASG	GLN	A	283	234	H	AlphaHelix	-63.97	-40.95	0.0	~~~~
ASG	GLN	A	284	235	H	AlphaHelix	-67.54	-39.79	72.2	~~~~
ASG	THR	A	285	236	H	AlphaHelix	-60.87	-45.09	51.9	~~~~
ASG	HIS	A	286	237	H	AlphaHelix	-66.73	-43.65	0.0	~~~~
ASG	ALA	A	287	238	H	AlphaHelix	-70.32	-35.43	6.0	~~~~
ASG	THR	A	288	239	H	AlphaHelix	-104.14	-21.36	53.9	~~~~
ASG	THR	A	289	240	H	AlphaHelix	-116.68	-62.42	72.2	~~~~
ASG	THR	A	290	241	H	AlphaHelix	-63.68	-44.90	24.4	~~~~
ASG	GLN	A	291	242	H	AlphaHelix	-69.54	-53.79	0.0	~~~~
ASG	PRO	A	292	243	H	AlphaHelix	-58.53	-37.32	3.6	~~~~
ASG	GLN	A	293	244	H	AlphaHelix	-59.72	-43.00	99.8	~~~~
ASG	GLN	A	294	245	H	AlphaHelix	-63.72	-41.68	22.7	~~~~
ASG	TYR	A	295	246	H	AlphaHelix	-61.21	-46.78	12.4	~~~~
ASG	TYR	A	296	247	H	AlphaHelix	-63.43	-40.50	102.0	~~~~
ASG	GLN	A	297	248	H	AlphaHelix	-64.18	-31.23	107.6	~~~~

ASG	THR	A	298	249	H	AlphaHelix	-93.16	-41.95	54.4	~~~~
ASG	THR	A	299	250	H	AlphaHelix	-98.56	-20.75	5.4	~~~~
ASG	ARG	A	300	251	C	Coil	58.25	23.65	169.7	~~~~
ASG	LYS	A	301	252	C	Coil	-108.67	152.23	88.2	~~~~
ASG	ASN	A	302	253	C	Coil	-64.17	114.82	89.5	~~~~
ASG	PRO	A	303	254	H	AlphaHelix	-70.18	-26.66	10.2	~~~~
ASG	TRP	A	304	255	H	AlphaHelix	-76.31	-28.41	139.9	~~~~
ASG	VAL	A	305	256	H	AlphaHelix	-69.84	-38.44	103.0	~~~~
ASG	PHE	A	306	257	H	AlphaHelix	-64.42	-46.96	14.5	~~~~
ASG	ILE	A	307	258	H	AlphaHelix	-63.22	-35.82	17.8	~~~~
ASG	GLY	A	308	259	H	AlphaHelix	-58.31	-34.18	39.9	~~~~
ASG	GLY	A	309	260	H	AlphaHelix	-72.66	-6.79	12.7	~~~~
ASG	LEU	A	310	261	H	AlphaHelix	-112.07	-0.53	0.4	~~~~
ASG	LEU	A	311	262	H	AlphaHelix	-53.08	-38.66	64.7	~~~~
ASG	GLN	A	312	263	H	AlphaHelix	-65.89	-45.81	4.6	~~~~
ASG	ALA	A	313	264	H	AlphaHelix	-62.85	-36.74	0.2	~~~~
ASG	LEU	A	314	265	H	AlphaHelix	-71.06	-38.60	14.5	~~~~
ASG	ILE	A	315	266	H	AlphaHelix	-67.90	-43.16	20.8	~~~~
ASG	THR	A	316	267	H	AlphaHelix	-62.42	-43.99	1.6	~~~~
ASG	ALA	A	317	268	H	AlphaHelix	-59.11	-40.59	0.0	~~~~
ASG	LEU	A	318	269	H	AlphaHelix	-63.31	-36.71	61.1	~~~~
ASG	GLY	A	319	270	H	AlphaHelix	-78.82	-34.56	7.3	~~~~
ASG	THR	A	320	271	H	AlphaHelix	-95.62	-28.19	6.0	~~~~
ASG	SER	A	321	272	C	Coil	66.82	17.79	7.0	~~~~
ASG	SER	A	322	273	C	Coil	-128.76	121.86	4.6	~~~~
ASG	SER	A	323	274	G	310Helix	-68.27	-33.47	7.4	~~~~
ASG	SER	A	324	275	G	310Helix	-73.06	-38.79	16.2	~~~~
ASG	ALA	A	325	276	G	310Helix	-70.30	-20.72	0.8	~~~~
ASG	THR	A	326	277	G	310Helix	-95.50	-5.14	0.8	~~~~
ASG	LEU	A	327	278	H	AlphaHelix	-61.49	-47.44	5.2	~~~~
ASG	PRO	A	328	279	H	AlphaHelix	-58.64	-42.32	0.8	~~~~
ASG	ILE	A	329	280	H	AlphaHelix	-69.29	-36.01	3.4	~~~~
ASG	THR	A	330	281	H	AlphaHelix	-62.96	-42.29	1.8	~~~~
ASG	PHE	A	331	282	H	AlphaHelix	-56.43	-48.92	0.0	~~~~
ASG	LYS	A	332	283	H	AlphaHelix	-62.06	-45.72	20.2	~~~~
ASG	CYS	A	333	284	H	AlphaHelix	-62.29	-41.68	0.6	~~~~
ASG	LEU	A	334	285	H	AlphaHelix	-70.42	-41.77	0.0	~~~~
ASG	GLU	A	335	286	H	AlphaHelix	-82.83	-38.58	23.7	~~~~
ASG	GLU	A	336	287	H	AlphaHelix	-97.93	-40.10	123.1	~~~~
ASG	ASN	A	337	288	H	AlphaHelix	-85.21	-43.17	57.3	~~~~
ASG	ASN	A	338	289	H	AlphaHelix	-99.44	-17.56	41.9	~~~~
ASG	GLY	A	339	290	C	Coil	76.10	28.05	46.4	~~~~
ASG	VAL	A	340	291	C	Coil	-72.75	136.41	5.4	~~~~
ASG	ASP	A	341	292	C	Coil	-56.88	135.13	59.9	~~~~
ASG	LYS	A	342	293	H	AlphaHelix	-61.42	-34.21	92.4	~~~~
ASG	ARG	A	343	294	H	AlphaHelix	-62.82	-36.93	130.1	~~~~
ASG	THR	A	344	295	H	AlphaHelix	-76.67	-45.90	8.4	~~~~
ASG	THR	A	345	296	H	AlphaHelix	-64.01	-40.13	0.0	~~~~
ASG	ARG	A	346	297	H	AlphaHelix	-69.85	-22.83	16.2	~~~~
ASG	TYR	A	347	298	H	AlphaHelix	-92.76	-48.23	25.1	~~~~
ASG	THR	A	348	299	H	AlphaHelix	-82.51	-30.75	0.0	~~~~
ASG	GLN	A	349	300	H	AlphaHelix	-74.24	-52.21	3.7	~~~~
ASG	PRO	A	350	301	H	AlphaHelix	-63.84	-38.34	1.5	~~~~
ASG	THR	A	351	302	H	AlphaHelix	-65.12	-45.13	12.4	~~~~
ASG	GLY	A	352	303	H	AlphaHelix	-61.21	-38.65	0.0	~~~~
ASG	ALA	A	353	304	H	AlphaHelix	-62.60	-13.69	4.4	~~~~
ASG	THR	A	354	305	H	AlphaHelix	-116.28	-33.80	4.2	~~~~
ASG	THR	A	355	306	H	AlphaHelix	-107.57	-25.88	35.5	~~~~
ASG	ASN	A	356	307	C	Coil	-110.70	72.29	0.2	~~~~
ASG	MET	A	357	308	C	Coil	-107.98	72.79	3.2	~~~~
ASG	ASP	A	358	309	H	AlphaHelix	-56.33	-47.97	0.6	~~~~
ASG	GLY	A	359	310	H	AlphaHelix	-54.31	-41.05	0.0	~~~~
ASG	THR	A	360	311	H	AlphaHelix	-68.01	-46.73	9.2	~~~~
ASG	ALA	A	361	312	H	AlphaHelix	-59.68	-48.80	0.0	~~~~
ASG	GLN	A	362	313	H	AlphaHelix	-57.58	-47.82	0.0	~~~~

ASG	TYR	A	363	314	H	AlphaHelix	-59.55	-43.84	0.0	~~~~
ASG	GLU	A	364	315	H	AlphaHelix	-62.90	-40.81	0.0	~~~~
ASG	ALA	A	365	316	H	AlphaHelix	-65.56	-43.31	0.0	~~~~
ASG	GLN	A	366	317	H	AlphaHelix	-65.47	-42.61	0.0	~~~~
ASG	ALA	A	367	318	H	AlphaHelix	-64.00	-42.19	0.0	~~~~
ASG	ALA	A	368	319	H	AlphaHelix	-62.83	-43.77	0.0	~~~~
ASG	THR	A	369	320	H	AlphaHelix	-66.07	-41.92	2.6	~~~~
ASG	TYR	A	370	321	H	AlphaHelix	-59.58	-48.91	0.4	~~~~
ASG	THR	A	371	322	H	AlphaHelix	-59.59	-40.01	1.4	~~~~
ASG	ALA	A	372	323	H	AlphaHelix	-61.23	-39.16	0.4	~~~~
ASG	GLN	A	373	324	H	AlphaHelix	-70.40	-40.49	29.4	~~~~
ASG	VAL	A	374	325	H	AlphaHelix	-68.51	-28.09	2.5	~~~~
ASG	ASN	A	375	326	H	AlphaHelix	-95.95	10.15	45.5	~~~~
ASG	ASN	A	376	327	C	Coil	53.65	31.06	138.2	~~~~
ASG	PHE	A	377	328	C	Coil	-92.08	112.27	75.3	~~~~
ASG	GLU	A	378	329	C	Coil	-79.42	119.11	181.1	~~~~
ASG	LEU	A	379	330	C	Coil	-83.02	118.58	36.9	~~~~
ASG	ASN	A	380	331	C	Coil	-78.76	169.74	89.1	~~~~
ASG	PHE	A	381	332	H	AlphaHelix	-55.95	-42.84	160.5	~~~~
ASG	GLY	A	382	333	H	AlphaHelix	-61.09	-38.13	38.3	~~~~
ASG	GLN	A	383	334	H	AlphaHelix	-70.79	-35.09	36.5	~~~~
ASG	ILE	A	384	335	H	AlphaHelix	-63.52	-43.00	42.3	~~~~
ASG	ILE	A	385	336	H	AlphaHelix	-64.50	-42.02	69.0	~~~~
ASG	THR	A	386	337	H	AlphaHelix	-60.30	-41.48	53.6	~~~~
ASG	ILE	A	387	338	H	AlphaHelix	-61.48	-44.74	0.0	~~~~
ASG	SER	A	388	339	H	AlphaHelix	-63.33	-45.27	17.6	~~~~
ASG	ILE	A	389	340	H	AlphaHelix	-69.49	-44.72	109.9	~~~~
ASG	THR	A	390	341	H	AlphaHelix	-67.99	-39.67	25.3	~~~~
ASG	ALA	A	391	342	H	AlphaHelix	-62.60	-41.72	0.0	~~~~
ASG	THR	A	392	343	H	AlphaHelix	-62.64	-45.90	9.2	~~~~
ASG	ALA	A	393	344	H	AlphaHelix	-64.92	-40.01	39.3	~~~~
ASG	ALA	A	394	345	H	AlphaHelix	-67.53	-26.22	1.2	~~~~
ASG	SER	A	395	346	H	AlphaHelix	-78.26	-20.25	0.0	~~~~
ASG	ILE	A	396	347	T	Turn	-76.29	57.77	75.1	~~~~
ASG	GLY	A	397	348	T	Turn	160.91	-8.62	2.6	~~~~
ASG	ALA	A	398	349	T	Turn	-60.74	112.56	1.6	~~~~
ASG	ALA	A	399	350	C	Coil	-54.06	117.49	24.7	~~~~
ASG	GLY	A	400	351	C	Coil	-49.33	27.50	6.7	~~~~
ASG	ILE	A	401	352	T	Turn	-101.18	150.06	56.9	~~~~
ASG	PRO	A	402	353	T	Turn	-52.91	129.10	58.5	~~~~
ASG	GLN	A	403	354	T	Turn	79.43	9.24	110.9	~~~~
ASG	ALA	A	404	355	H	AlphaHelix	-58.69	-22.33	12.5	~~~~
ASG	GLY	A	405	356	H	AlphaHelix	-66.30	-25.70	3.1	~~~~
ASG	LEU	A	406	357	H	AlphaHelix	-76.53	-30.51	26.9	~~~~
ASG	VAL	A	407	358	H	AlphaHelix	-71.69	-38.72	93.9	~~~~
ASG	THR	A	408	359	H	AlphaHelix	-81.91	-16.95	6.0	~~~~
ASG	MET	A	409	360	H	AlphaHelix	-64.14	-26.40	0.0	~~~~
ASG	VAL	A	410	361	H	AlphaHelix	-64.77	-36.03	7.2	~~~~
ASG	ILE	A	411	362	H	AlphaHelix	-64.62	-41.09	18.2	~~~~
ASG	VAL	A	412	363	H	AlphaHelix	-74.25	-45.92	0.0	~~~~
ASG	LEU	A	413	364	H	AlphaHelix	-63.43	-42.51	0.0	~~~~
ASG	THR	A	414	365	H	AlphaHelix	-70.53	-27.19	50.6	~~~~
ASG	SER	A	415	366	H	AlphaHelix	-65.21	-22.25	45.5	~~~~
ASG	VAL	A	416	367	C	Coil	-119.74	6.13	13.3	~~~~
ASG	GLY	A	417	368	C	Coil	82.69	25.31	61.6	~~~~
ASG	LEU	A	418	369	C	Coil	-90.09	145.77	7.6	~~~~
ASG	PRO	A	419	370	C	Coil	-65.75	131.76	48.5	~~~~
ASG	THR	A	420	371	C	Coil	-81.00	-15.65	22.2	~~~~
ASG	ASP	A	421	372	G	310Helix	-68.75	-18.17	58.5	~~~~
ASG	ASP	A	422	373	G	310Helix	-80.40	-6.87	2.7	~~~~
ASG	ILE	A	423	374	G	310Helix	-59.38	-29.90	2.8	~~~~
ASG	THR	A	424	375	G	310Helix	-66.42	-13.92	8.7	~~~~
ASG	LEU	A	425	376	G	310Helix	-77.70	-26.90	4.1	~~~~
ASG	ILE	A	426	377	C	Coil	-109.32	-6.32	0.2	~~~~
ASG	ILE	A	427	378	G	310Helix	-60.02	-30.73	48.4	~~~~

ASG	ALA	A	428	379	G	310Helix	-62.12	-30.00	19.6	~~~~
ASG	VAL	A	429	380	G	310Helix	-109.96	0.22	1.2	~~~~
ASG	ASP	A	430	381	H	AlphaHelix	-60.56	-40.21	1.0	~~~~
ASG	TRP	A	431	382	H	AlphaHelix	-53.07	-46.81	53.9	~~~~
ASG	TYR	A	432	383	H	AlphaHelix	-65.47	-46.90	68.1	~~~~
ASG	GLN	A	433	384	H	AlphaHelix	-66.36	-34.50	0.0	~~~~
ASG	ASP	A	434	385	H	AlphaHelix	-58.40	-33.13	13.0	~~~~
ASG	ARG	A	435	386	H	AlphaHelix	-71.74	-45.03	28.9	~~~~
ASG	GLN	A	436	387	H	AlphaHelix	-64.05	-37.89	28.1	~~~~
ASG	ARG	A	437	388	H	AlphaHelix	-63.49	-46.82	1.0	~~~~
ASG	THR	A	438	389	H	AlphaHelix	-61.61	-40.63	6.4	~~~~
ASG	THR	A	439	390	H	AlphaHelix	-64.69	-44.49	20.6	~~~~
ASG	THR	A	440	391	H	AlphaHelix	-62.13	-42.00	1.8	~~~~
ASG	ASN	A	441	392	H	AlphaHelix	-64.21	-46.50	3.8	~~~~
ASG	THR	A	442	393	H	AlphaHelix	-60.91	-43.93	5.1	~~~~
ASG	GLN	A	443	394	H	AlphaHelix	-62.05	-48.13	12.8	~~~~
ASG	GLY	A	444	395	H	AlphaHelix	-59.25	-42.58	0.2	~~~~
ASG	ASP	A	445	396	H	AlphaHelix	-65.52	-38.02	4.0	~~~~
ASG	SER	A	446	397	H	AlphaHelix	-68.48	-46.56	0.0	~~~~
ASG	GLN	A	447	398	H	AlphaHelix	-62.65	-36.79	0.0	~~~~
ASG	GLY	A	448	399	H	AlphaHelix	-56.76	-41.46	0.0	~~~~
ASG	ALA	A	449	400	H	AlphaHelix	-62.79	-44.22	0.0	~~~~
ASG	GLY	A	450	401	H	AlphaHelix	-62.53	-42.34	2.6	~~~~
ASG	THR	A	451	402	H	AlphaHelix	-67.16	-45.81	2.0	~~~~
ASG	THR	A	452	403	H	AlphaHelix	-63.15	-40.38	0.8	~~~~
ASG	GLU	A	453	404	H	AlphaHelix	-60.96	-47.37	23.2	~~~~
ASG	HIS	A	454	405	H	AlphaHelix	-57.72	-37.19	66.0	~~~~
ASG	LEU	A	455	406	H	AlphaHelix	-83.32	-19.82	75.4	~~~~
ASG	SER	A	456	407	H	AlphaHelix	-102.03	-1.69	41.2	~~~~
ASG	ARG	A	457	408	C	Coil	-64.15	360.00	197.9	~~~~