


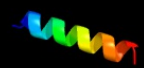







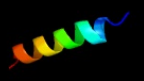

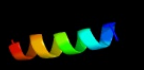



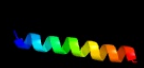

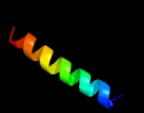

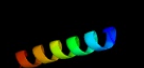

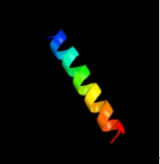
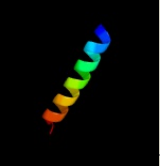
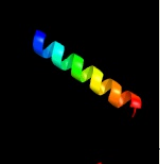

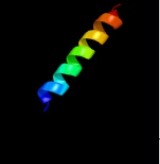
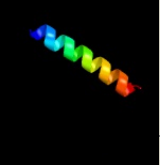
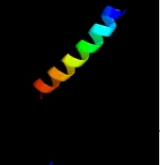
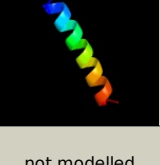


# Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD3632_(-)_4071415_4071759
Date	Fri Aug 9 18:20:32 BST 2019
Unique Job ID	3e59e60359e6217d

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">c3hfeC_</a>	 Alignment		54.1	28	<b>PDB header:</b> transport protein <b>Chain:</b> C: <b>PDB Molecule:</b> potassium voltage-gated channel subfamily kqt member 1; <b>PDBTitle:</b> a trimeric form of the kv7.1 a domain tail
2	<a href="#">c3bj4B_</a>	 Alignment		47.9	26	<b>PDB header:</b> signaling protein <b>Chain:</b> B: <b>PDB Molecule:</b> potassium voltage-gated channel subfamily kqt <b>PDBTitle:</b> the kcnq1 (kv7.1) c-terminus, a multi-tiered scaffold for2 subunit assembly and protein interaction
3	<a href="#">c3ra3D_</a>	 Alignment		29.8	18	<b>PDB header:</b> de novo protein <b>Chain:</b> D: <b>PDB Molecule:</b> p2f; <b>PDBTitle:</b> crystal structure of a section of a de novo design gigadalton protein2 fibre
4	<a href="#">c5b16C_</a>	 Alignment		25.6	20	<b>PDB header:</b> hydrolase <b>Chain:</b> C: <b>PDB Molecule:</b> microprocessor complex subunit dgcr8; <b>PDBTitle:</b> x-ray structure of drosha in complex with the c-terminal tail of2 dgcr8.
5	<a href="#">c5b16B_</a>	 Alignment		24.7	20	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> microprocessor complex subunit dgcr8; <b>PDBTitle:</b> x-ray structure of drosha in complex with the c-terminal tail of2 dgcr8.
6	<a href="#">c3ra3B_</a>	 Alignment		24.2	20	<b>PDB header:</b> de novo protein <b>Chain:</b> B: <b>PDB Molecule:</b> p2f; <b>PDBTitle:</b> crystal structure of a section of a de novo design gigadalton protein2 fibre
7	<a href="#">c1junB_</a>	 Alignment		23.9	18	<b>PDB header:</b> transcription regulation <b>Chain:</b> B: <b>PDB Molecule:</b> c-jun homodimer; <b>PDBTitle:</b> nmr study of c-jun homodimer
8	<a href="#">c1ce0B_</a>	 Alignment		23.2	13	<b>PDB header:</b> hiv-1 envelope protein <b>Chain:</b> B: <b>PDB Molecule:</b> protein (leucine zipper model h38-p1); <b>PDBTitle:</b> trimerization specificity in hiv-1 gp41: analysis with a2 gcn4 leucine zipper model
9	<a href="#">c2jeeA_</a>	 Alignment		20.0	20	<b>PDB header:</b> cell cycle <b>Chain:</b> A: <b>PDB Molecule:</b> cell division protein zapb; <b>PDBTitle:</b> xray structure of e. coli yiu
10	<a href="#">c1ij2C_</a>	 Alignment		19.8	18	<b>PDB header:</b> transcription <b>Chain:</b> C: <b>PDB Molecule:</b> general control protein gcn4; <b>PDBTitle:</b> gcn4-pvtl coiled-coil trimer with threonine at the a(16)2 position
11	<a href="#">c1ij3B_</a>	 Alignment		19.3	18	<b>PDB header:</b> transcription <b>Chain:</b> B: <b>PDB Molecule:</b> general control protein gcn4; <b>PDBTitle:</b> gcn4-pvsl coiled-coil trimer with serine at the a(16)2 position

12	<a href="#">c1ij3C_</a>	Alignment		19.3	18	<b>PDB header:</b> transcription <b>Chain:</b> C; <b>PDB Molecule:</b> general control protein gcn4; <b>PDBTitle:</b> gcn4-pvsl coiled-coil trimer with serine at the a(16)2 position
13	<a href="#">c3k7zB_</a>	Alignment		19.2	18	<b>PDB header:</b> dna binding protein <b>Chain:</b> B; <b>PDB Molecule:</b> general control protein gcn4; <b>PDBTitle:</b> gcn4-leucine zipper core mutant as n16a trigonal automatic2 solution
14	<a href="#">c3k7zA_</a>	Alignment		19.2	18	<b>PDB header:</b> dna binding protein <b>Chain:</b> A; <b>PDB Molecule:</b> general control protein gcn4; <b>PDBTitle:</b> gcn4-leucine zipper core mutant as n16a trigonal automatic2 solution
15	<a href="#">c1rb6C_</a>	Alignment		19.2	18	<b>PDB header:</b> dna binding protein <b>Chain:</b> C; <b>PDB Molecule:</b> general control protein gcn4; <b>PDBTitle:</b> antiparallel trimer of gcn4-leucine zipper core mutant as n16a2 tetragonal form
16	<a href="#">c1rb1B_</a>	Alignment		19.2	18	<b>PDB header:</b> dna binding protein <b>Chain:</b> B; <b>PDB Molecule:</b> general control protein gcn4; <b>PDBTitle:</b> gcn4-leucine zipper core mutant as n16a trigonal automatic2 solution
17	<a href="#">c1swiA_</a>	Alignment		19.2	18	<b>PDB header:</b> leucine zipper <b>Chain:</b> A; <b>PDB Molecule:</b> gcn4p1; <b>PDBTitle:</b> gcn4-leucine zipper core mutant as n16a complexed with benzene
18	<a href="#">c1rb1A_</a>	Alignment		19.2	18	<b>PDB header:</b> dna binding protein <b>Chain:</b> A; <b>PDB Molecule:</b> general control protein gcn4; <b>PDBTitle:</b> gcn4-leucine zipper core mutant as n16a trigonal automatic2 solution
19	<a href="#">c1zxaB_</a>	Alignment		18.1	22	<b>PDB header:</b> transferase <b>Chain:</b> B; <b>PDB Molecule:</b> cgmp-dependent protein kinase 1, alpha isozyme; <b>PDBTitle:</b> solution structure of the coiled-coil domain of cgmp-2 dependent protein kinase ia
20	<a href="#">c1ij2B_</a>	Alignment		17.9	18	<b>PDB header:</b> transcription <b>Chain:</b> B; <b>PDB Molecule:</b> general control protein gcn4; <b>PDBTitle:</b> gcn4-pvtl coiled-coil trimer with threonine at the a(16)2 position
21	<a href="#">c2o7hF_</a>	Alignment	not modelled	17.8	18	<b>PDB header:</b> transcription <b>Chain:</b> F; <b>PDB Molecule:</b> general control protein gcn4; <b>PDBTitle:</b> crystal structure of trimeric coiled coil gcn4 leucine zipper
22	<a href="#">c3mk7F_</a>	Alignment	not modelled	17.0	13	<b>PDB header:</b> oxidoreductase <b>Chain:</b> F; <b>PDB Molecule:</b> cytochrome c oxidase, cbb3-type, subunit p; <b>PDBTitle:</b> the structure of cbb3 cytochrome oxidase
23	<a href="#">c5yr0B_</a>	Alignment	not modelled	16.7	20	<b>PDB header:</b> endocytosis <b>Chain:</b> B; <b>PDB Molecule:</b> uv radiation resistance associated protein; <b>PDBTitle:</b> structure of beclin1-uvrag coiled coil domain complex
24	<a href="#">c4r4mB_</a>	Alignment	not modelled	15.1	22	<b>PDB header:</b> dna binding protein <b>Chain:</b> B; <b>PDB Molecule:</b> cgmp-dependent protein kinase 1; <b>PDBTitle:</b> crystal structure of c42l cgmp dependent protein kinase i alpha (pki2 alpha) leucine zipper
25	<a href="#">c3vgxD_</a>	Alignment	not modelled	13.1	33	<b>PDB header:</b> membrane protein <b>Chain:</b> D; <b>PDB Molecule:</b> envelope glycoprotein gp160; <b>PDBTitle:</b> structure of gp41 t21/cp621-652
26	<a href="#">c1ztaA_</a>	Alignment	not modelled	12.7	17	<b>PDB header:</b> dna-binding motif <b>Chain:</b> A; <b>PDB Molecule:</b> leucine zipper monomer; <b>PDBTitle:</b> the solution structure of a leucine-zipper motif peptide
27	<a href="#">c1u2uA_</a>	Alignment	not modelled	12.2	12	<b>PDB header:</b> transcription <b>Chain:</b> A; <b>PDB Molecule:</b> general control protein gcn4; <b>PDBTitle:</b> nmr solution structure of a designed heterodimeric leucine2 zipper
28	<a href="#">c4u5tB_</a>	Alignment	not modelled	12.2	15	<b>PDB header:</b> transcription/transcription inhibitor <b>Chain:</b> B; <b>PDB Molecule:</b> vbp leucine zipper; <b>PDBTitle:</b> crystal structure of vbp leucine zipper with bound arylstibonic acid
						<b>PDB header:</b> cell adhesion

29	<a href="#">c2xzrA_</a>	Alignment	not modelled	12.0	13	<b>Chain:</b> A: <b>PDB Molecule:</b> immunoglobulin-binding protein eibd; <b>PDBTitle:</b> escherichia coli immunoglobulin-binding protein eibd 391-438 fused2 to gcn4 adaptors
30	<a href="#">c4yj0C_</a>	Alignment	not modelled	10.7	32	<b>PDB header:</b> transcription <b>Chain:</b> C: <b>PDB Molecule:</b> doublesex- and mab-3-related transcription factor 1; <b>PDBTitle:</b> crystal structure of the dm domain of human dmrt1 bound to 25mer2 target dna
31	<a href="#">c3iynR_</a>	Alignment	not modelled	10.5	9	<b>PDB header:</b> virus <b>Chain:</b> R: <b>PDB Molecule:</b> hexon-associated protein; <b>PDBTitle:</b> 3.6-angstrom cryoem structure of human adenovirus type 5
32	<a href="#">c1ci6B_</a>	Alignment	not modelled	10.1	15	<b>PDB header:</b> transcription <b>Chain:</b> B: <b>PDB Molecule:</b> transcription factor c/ebp beta; <b>PDBTitle:</b> transcription factor atf4-c/ebp beta bzjp heterodimer
33	<a href="#">c6mctJ_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> J: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
34	<a href="#">c6mctE_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> E: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
35	<a href="#">c6mctI_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> I: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
36	<a href="#">c6mctH_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> H: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
37	<a href="#">c6mq2D_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> D: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> de novo design of membrane protein--mini-evgl membrane protein, c2212 form-2
38	<a href="#">c6mctD_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> D: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
39	<a href="#">c6mctK_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> K: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
40	<a href="#">c6mctM_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> M: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
41	<a href="#">c6mctF_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> F: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
42	<a href="#">c6mctB_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> B: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
43	<a href="#">c6mctN_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> N: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
44	<a href="#">c6mctL_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> L: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
45	<a href="#">c6mctA_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> A: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
46	<a href="#">c6mctO_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> O: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
47	<a href="#">c6mctC_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> C: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
48	<a href="#">c6mctG_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> G: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> a designed pentameric membrane protein stabilized by van der waals2 interaction
49	<a href="#">c6mpwA_</a>	Alignment	not modelled	9.9	24	<b>PDB header:</b> de novo protein <b>Chain:</b> A: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> de novo design of membrane protein--mini-evgl membrane protein, c2212 form-1
50	<a href="#">c6mpwD_</a>	Alignment	not modelled	9.7	24	<b>PDB header:</b> de novo protein <b>Chain:</b> D: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> de novo design of membrane protein--mini-evgl membrane protein, c2212 form-1
51	<a href="#">c6mpwE_</a>	Alignment	not modelled	9.7	24	<b>PDB header:</b> de novo protein <b>Chain:</b> E: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> de novo design of membrane protein--mini-evgl membrane protein, c2212 form-1
52	<a href="#">c6mq2A_</a>	Alignment	not modelled	9.7	24	<b>PDB header:</b> de novo protein <b>Chain:</b> A: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> de novo design of membrane protein--mini-evgl membrane protein, c2212 form-2
53	<a href="#">c6mq2C_</a>	Alignment	not modelled	9.7	24	<b>PDB header:</b> de novo protein <b>Chain:</b> C: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> de novo design of membrane protein--mini-evgl membrane protein, c2212 form-2
54	<a href="#">c6mpwB_</a>	Alignment	not modelled	9.7	24	<b>PDB header:</b> de novo protein <b>Chain:</b> B: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> de novo design of membrane protein--mini-evgl

						membrane protein, c22212 form-1
55	<a href="#">c6mq2B_</a>	Alignment	not modelled	9.7	24	<b>PDB header:</b> de novo protein <b>Chain:</b> B: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> de novo design of membrane protein--mini-evgl membrane protein, c22212 form-2
56	<a href="#">c6mpwC_</a>	Alignment	not modelled	9.7	24	<b>PDB header:</b> de novo protein <b>Chain:</b> C: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> de novo design of membrane protein--mini-evgl membrane protein, c22212 form-1
57	<a href="#">c6mq2E_</a>	Alignment	not modelled	9.7	24	<b>PDB header:</b> de novo protein <b>Chain:</b> E: <b>PDB Molecule:</b> mini-evgl membrane protein; <b>PDBTitle:</b> de novo design of membrane protein--mini-evgl membrane protein, c22212 form-2
58	<a href="#">c4px7A_</a>	Alignment	not modelled	9.6	11	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> phosphatidylglycerophosphatase; <b>PDBTitle:</b> crystal structure of lipid phosphatase e. coli pgbp
59	<a href="#">c5j10A_</a>	Alignment	not modelled	9.2	13	<b>PDB header:</b> de novo protein <b>Chain:</b> A: <b>PDB Molecule:</b> peptide design 214hc2_24; <b>PDBTitle:</b> de novo design of protein homo-oligomers with modular hydrogen bond2 network-mediated specificity
60	<a href="#">c1dipA_</a>	Alignment	not modelled	8.8	15	<b>PDB header:</b> acetylation <b>Chain:</b> A: <b>PDB Molecule:</b> delta-sleep-inducing peptide immunoreactive <b>PDBTitle:</b> the solution structure of porcine delta-sleep-inducing2 peptide immunoreactive peptide, nmr, 10 structures
61	<a href="#">c2kluA_</a>	Alignment	not modelled	8.4	14	<b>PDB header:</b> immune system, membrane protein <b>Chain:</b> A: <b>PDB Molecule:</b> t-cell surface glycoprotein cd4; <b>PDBTitle:</b> nmr structure of the transmembrane and cytoplasmic domains2 of human cd4
62	<a href="#">c1pl5A_</a>	Alignment	not modelled	8.3	13	<b>PDB header:</b> dna binding protein/transcription <b>Chain:</b> A: <b>PDB Molecule:</b> regulatory protein sir4; <b>PDBTitle:</b> crystal structure analysis of the sir4p c-terminal coiled2 coil
63	<a href="#">c3iyqQ_</a>	Alignment	not modelled	8.1	16	<b>PDB header:</b> virus <b>Chain:</b> Q: <b>PDB Molecule:</b> hexon-associated protein; <b>PDBTitle:</b> 3.6-angstrom cryoem structure of human adenovirus type 5
64	<a href="#">c1nyhA_</a>	Alignment	not modelled	8.1	13	<b>PDB header:</b> transcription repressor <b>Chain:</b> A: <b>PDB Molecule:</b> regulatory protein sir4; <b>PDBTitle:</b> crystal structure of the coiled-coil dimerization motif of sir4
65	<a href="#">c2na6C_</a>	Alignment	not modelled	6.7	23	<b>PDB header:</b> apoptosis <b>Chain:</b> C: <b>PDB Molecule:</b> tumor necrosis factor receptor superfamily member 6; <b>PDBTitle:</b> transmembrane domain of mouse fas/cd95 death receptor
66	<a href="#">c2na6A_</a>	Alignment	not modelled	6.7	23	<b>PDB header:</b> apoptosis <b>Chain:</b> A: <b>PDB Molecule:</b> tumor necrosis factor receptor superfamily member 6; <b>PDBTitle:</b> transmembrane domain of mouse fas/cd95 death receptor
67	<a href="#">c2na6B_</a>	Alignment	not modelled	6.7	23	<b>PDB header:</b> apoptosis <b>Chain:</b> B: <b>PDB Molecule:</b> tumor necrosis factor receptor superfamily member 6; <b>PDBTitle:</b> transmembrane domain of mouse fas/cd95 death receptor
68	<a href="#">c5dolB_</a>	Alignment	not modelled	5.9	18	<b>PDB header:</b> replication <b>Chain:</b> B: <b>PDB Molecule:</b> initiation-control protein yaba; <b>PDBTitle:</b> crystal structure of yaba amino-terminal domain from bacillus subtilis
69	<a href="#">c2oqqB_</a>	Alignment	not modelled	5.5	13	<b>PDB header:</b> transcription <b>Chain:</b> B: <b>PDB Molecule:</b> transcription factor hy5; <b>PDBTitle:</b> crystal structure of hy5 leucine zipper homodimer from arabidopsis2 thaliana