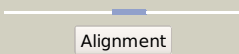

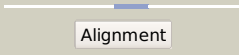
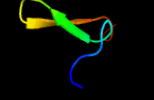
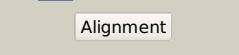

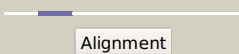
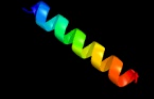
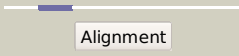



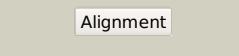
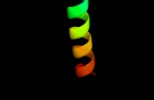
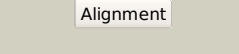
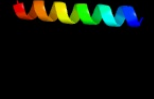
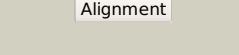

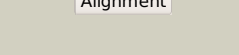

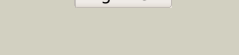

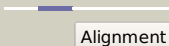

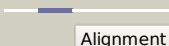
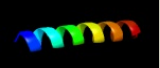

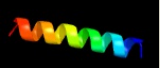

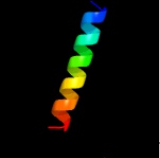
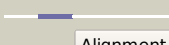
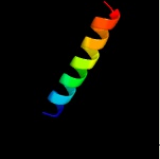

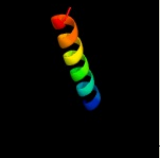
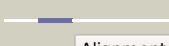





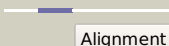




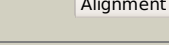
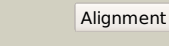
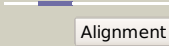


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1888c (-) _2137526_2138086
Date	Fri Aug 2 13:30:50 BST 2019
Unique Job ID	79ebce957a6c4272

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2ppyB_	 Alignment		24.3	35	PDB header: transport protein Chain: B; PDB Molecule: ionotropic glutamate receptor bacterial homologue; PDBTitle: crystal structure of the glur0 ligand-binding core from nostoc2 punctiforme in complex with (l)-glutamate
2	c5bwjC_	 Alignment		23.8	18	PDB header: signaling protein Chain: C; PDB Molecule: sensory transduction histidine kinase, putative; PDBTitle: structural characterization and modeling of the borrelia burgdorferi2 hybrid histidine kinase hk1 periplasmic sensor
3	c6mctL_	 Alignment		15.7	27	PDB header: de novo protein Chain: L; PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
4	c6mctD_	 Alignment		15.7	27	PDB header: de novo protein Chain: D; PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
5	c6mq2D_	 Alignment		15.7	27	PDB header: de novo protein Chain: D; PDB Molecule: mini-evgl membrane protein; PDBTitle: de novo design of membrane protein--mini-evgl membrane protein, c22212 form-2
6	c6mctF_	 Alignment		15.7	27	PDB header: de novo protein Chain: F; PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
7	c6mctH_	 Alignment		15.7	27	PDB header: de novo protein Chain: H; PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
8	c6mctE_	 Alignment		15.7	27	PDB header: de novo protein Chain: E; PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
9	c6mctM_	 Alignment		15.7	27	PDB header: de novo protein Chain: M; PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
10	c6mctI_	 Alignment		15.7	27	PDB header: de novo protein Chain: I; PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
11	c6mpwA_	 Alignment		15.7	27	PDB header: de novo protein Chain: A; PDB Molecule: mini-evgl membrane protein; PDBTitle: de novo design of membrane protein--mini-evgl membrane protein, c22212 form-1

12	c6mctO_	 Alignment		15.7	27	PDB header: de novo protein Chain: O: PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
13	c6mctC_	 Alignment		15.7	27	PDB header: de novo protein Chain: C: PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
14	c6mctN_	 Alignment		15.7	27	PDB header: de novo protein Chain: N: PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
15	c6mctB_	 Alignment		15.7	27	PDB header: de novo protein Chain: B: PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
16	c6mctK_	 Alignment		15.7	27	PDB header: de novo protein Chain: K: PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
17	c6mctA_	 Alignment		15.7	27	PDB header: de novo protein Chain: A: PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
18	c6mctJ_	 Alignment		15.7	27	PDB header: de novo protein Chain: J: PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
19	c6mpwD_	 Alignment		15.1	27	PDB header: de novo protein Chain: D: PDB Molecule: mini-evgl membrane protein; PDBTitle: de novo design of membrane protein--mini-evgl membrane protein, c22212 form-1
20	c6mq2B_	 Alignment		15.1	27	PDB header: de novo protein Chain: B: PDB Molecule: mini-evgl membrane protein; PDBTitle: de novo design of membrane protein--mini-evgl membrane protein, c22212 form-2
21	c6mpwB_	 Alignment	not modelled	15.1	27	PDB header: de novo protein Chain: B: PDB Molecule: mini-evgl membrane protein; PDBTitle: de novo design of membrane protein--mini-evgl membrane protein, c22212 form-1
22	c6mpwE_	 Alignment	not modelled	15.1	27	PDB header: de novo protein Chain: E: PDB Molecule: mini-evgl membrane protein; PDBTitle: de novo design of membrane protein--mini-evgl membrane protein, c22212 form-1
23	c6mq2A_	 Alignment	not modelled	15.1	27	PDB header: de novo protein Chain: A: PDB Molecule: mini-evgl membrane protein; PDBTitle: de novo design of membrane protein--mini-evgl membrane protein, c22212 form-2
24	c6mq2E_	 Alignment	not modelled	15.1	27	PDB header: de novo protein Chain: E: PDB Molecule: mini-evgl membrane protein; PDBTitle: de novo design of membrane protein--mini-evgl membrane protein, c22212 form-2
25	c6mpwC_	 Alignment	not modelled	15.1	27	PDB header: de novo protein Chain: C: PDB Molecule: mini-evgl membrane protein; PDBTitle: de novo design of membrane protein--mini-evgl membrane protein, c22212 form-1
26	c6mq2C_	 Alignment	not modelled	15.1	27	PDB header: de novo protein Chain: C: PDB Molecule: mini-evgl membrane protein; PDBTitle: de novo design of membrane protein--mini-evgl membrane protein, c22212 form-2
27	c6mctG_	 Alignment	not modelled	13.5	29	PDB header: de novo protein Chain: G: PDB Molecule: mini-evgl membrane protein; PDBTitle: a designed pentameric membrane protein stabilized by van der waals2 interaction
28	c2q89A_	 Alignment	not modelled	7.8	17	PDB header: transport protein Chain: A: PDB Molecule: putative abc transporter amino acid-binding protein; PDBTitle: crystal structure of ehub in complex with hydroxyectoine

29	c2q8iB_	Alignment	not modelled	7.7	33	PDB header: transferase Chain: B: PDB Molecule: dihydrolipoylysine-residue acetyltransferase component of PDBTitle: pyruvate dehydrogenase kinase isoform 3 in complex with antitumor drug2 radicicol
30	d1gph11	Alignment	not modelled	7.6	56	Fold: PRTase-like Superfamily: PRTase-like Family: Phosphoribosyltransferases (PRTases)
31	c5ch6B_	Alignment	not modelled	7.5	13	PDB header: transcription Chain: B: PDB Molecule: frigida; PDBTitle: crystal structure of frigida flowering-time regulator
32	d2p06a1	Alignment	not modelled	7.3	60	Fold: all-alpha NTP pyrophosphatases Superfamily: all-alpha NTP pyrophosphatases Family: AF0060-like
33	c2p06A_	Alignment	not modelled	7.3	60	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein af_0060; PDBTitle: crystal structure of a predicted coding region af_0060 from2 archaeoglobus fulgidus dsm 4304
34	d1ecfa1	Alignment	not modelled	6.8	27	Fold: PRTase-like Superfamily: PRTase-like Family: Phosphoribosyltransferases (PRTases)
35	d3bz6a1	Alignment	not modelled	6.5	30	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: PSPTO2686-like
36	c6gpcB_	Alignment	not modelled	6.2	24	PDB header: transport protein Chain: B: PDB Molecule: amino acid abc transporter, periplasmic amino acid-binding PDBTitle: crystal structure of the arginine-bound form of domain 1 from tmargbp
37	c1ecjB_	Alignment	not modelled	6.0	27	PDB header: transferase Chain: B: PDB Molecule: glutamine phosphoribosylpyrophosphate PDBTitle: escherichia coli glutamine phosphoribosylpyrophosphate2 (prpp) amidotransferase complexed with 2 amp per tetramer
38	c2mg3A_	Alignment	not modelled	5.9	38	PDB header: viral protein Chain: A: PDB Molecule: envelope glycoprotein gp41; PDBTitle: nmr assignment and structure of a peptide derived from the membrane2 proximal external region of hiv-1 gp41 in the presence of3 dodecylphosphocholine micelles
39	c2mg2A_	Alignment	not modelled	5.9	38	PDB header: viral protein Chain: A: PDB Molecule: transmembrane protein gp41; PDBTitle: nmr assignment and structure of a peptide derived from the membrane2 proximal external region of hiv-1 gp41 in the presence of3 hexafluoroisopropanol
40	d2hrkb1	Alignment	not modelled	5.9	23	Fold: GST C-terminal domain-like Superfamily: GST C-terminal domain-like Family: Arc1p N-terminal domain-like
41	c3delC_	Alignment	not modelled	5.6	29	PDB header: protein binding, transport protein Chain: C: PDB Molecule: arginine binding protein; PDBTitle: the structure of ct381, the arginine binding protein from the2 periplasm chlamydia trachomatis
42	c2mpeA_	Alignment	not modelled	5.6	24	PDB header: unknown function Chain: A: PDB Molecule: bpsl1050; PDBTitle: solution nmr structure for b. pseudomallei bpsl1050
43	d1iwga5	Alignment	not modelled	5.5	21	Fold: Multidrug efflux transporter AcrB ToIC docking domain; DN and DC subdomains Superfamily: Multidrug efflux transporter AcrB ToIC docking domain; DN and DC subdomains Family: Multidrug efflux transporter AcrB ToIC docking domain; DN and DC subdomains
44	c3w0dA_	Alignment	not modelled	5.4	19	PDB header: hydrolase inhibitor Chain: A: PDB Molecule: elastase inhibitor afuei; PDBTitle: structure of elastase inhibitor afuei (cyrstal form i)
45	c2zt9H_	Alignment	not modelled	5.3	29	PDB header: photosynthesis Chain: H: PDB Molecule: cytochrome b6-f complex subunit 8; PDBTitle: crystal structure of the cytochrome b6f complex from nostoc sp. pcc2 7120
46	c4ogqH_	Alignment	not modelled	5.3	29	PDB header: electron transport Chain: H: PDB Molecule: cytochrome b6-f complex subunit 8; PDBTitle: internal lipid architecture of the hetero-oligomeric cytochrome b6f2 complex
47	c4h44H_	Alignment	not modelled	5.3	29	PDB header: photosynthesis Chain: H: PDB Molecule: cytochrome b6-f complex subunit 8; PDBTitle: 2.70 a cytochrome b6f complex structure from nostoc pcc 7120
48	d1o82a_	Alignment	not modelled	5.2	28	Fold: Saposin-like Superfamily: Bacteriocin AS-48 Family: Bacteriocin AS-48