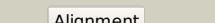
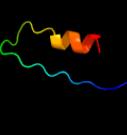
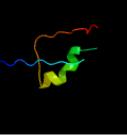
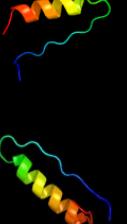
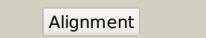
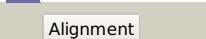
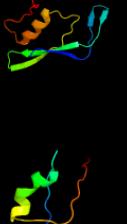
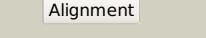
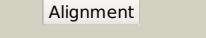
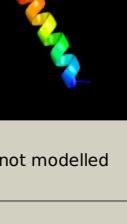


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD3606c_(folK)_4048360_4048926
Date	Fri Aug 9 18:20:29 BST 2019
Unique Job ID	4d79a8982616aa3e

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1cbka_			100.0	30	Fold: Ferredoxin-like Superfamily: 6-hydroxymethyl-7,8-dihydropterin pyrophosphokinase, HPPK Family: 6-hydroxymethyl-7,8-dihydropterin pyrophosphokinase, HPPK
2	c3qbcB_			100.0	35	PDB header: transferase/transferase inhibitor Chain: B; PDB Molecule: 2-amino-4-hydroxy-6-hydroxymethylidihydropteridine PDBTitle: structure and design of a new pterin site inhibitor of s. aureus hppk
3	c2qx0A_			100.0	35	PDB header: transferase Chain: A; PDB Molecule: 7,8-dihydro-6-hydroxymethylpterin PDBTitle: crystal structure of yersinia pestis hppk (ternary complex)
4	d1f9ya_			100.0	29	Fold: Ferredoxin-like Superfamily: 6-hydroxymethyl-7,8-dihydropterin pyrophosphokinase, HPPK Family: 6-hydroxymethyl-7,8-dihydropterin pyrophosphokinase, HPPK
5	c2bmbA_			100.0	28	PDB header: transferase Chain: A; PDB Molecule: folic acid synthesis protein fol1; PDBTitle: x-ray structure of the bifunctional 6-hydroxymethyl-7,8-2 dihydropterin pyrophosphokinase dihydropteroate synthase from3 saccharomyces cerevisiae
6	c3mcnA_			100.0	25	PDB header: transferase Chain: A; PDB Molecule: 2-amino-4-hydroxy-6-hydroxymethylidihydropteridine PDBTitle: crystal structure of the 6-hydroxymethyl-7,8-dihydropterin2 pyrophosphokinase dihydropteroate synthase bifunctional enzyme from3 francisella tularensis
7	c2cg8B_			100.0	29	PDB header: lyase/transferase Chain: B; PDB Molecule: dihydronoopterin aldolase 6-hydroxymethyl-7,8- PDBTitle: the bifunctional dihydronoopterin aldolase 6-hydroxymethyl-2,7,8-dihydropterin synthase from streptococcus pneumoniae
8	c5z79F_			99.9	17	PDB header: transferase Chain: F; PDB Molecule: hydroxymethylidihydropterin pyrophosphokinase- PDBTitle: crystal structure analysis of the hppk-dhps in complex with substrates
9	c6ohkA_			22.7	9	PDB header: electron transport Chain: A; PDB Molecule: flavodoxin; PDBTitle: crystal structure of fusobacterium nucleatum flavodoxin mutant k13g2 bound to flavin mononucleotide
10	c2m6rA_			20.7	23	PDB header: electron transport Chain: A; PDB Molecule: flavodoxin; PDBTitle: apo_yqca
11	d2bcgg3			16.8	16	Fold: FAD-linked reductases, C-terminal domain Superfamily: FAD-linked reductases, C-terminal domain Family: GDI-like

12	c2wc1A_			16.0	22	PDB header: electron transport Chain: A: PDB Molecule: flavodoxin; PDBTitle: three-dimensional structure of the nitrogen fixation2 flavodoxin (niff) from rhodobacter capsulatus at 2.2 a
13	c5f4bB_			14.5	15	PDB header: oxidoreductase Chain: B: PDB Molecule: nad(p)h dehydrogenase (quinone); PDBTitle: structure of b. abortus wrba-related protein a (wrpa)
14	c5ns5A_			14.1	15	PDB header: hydrolase Chain: A: PDB Molecule: dipeptidase glij; PDBTitle: cys-gly dipeptidase glij in complex with cu2+ and zn2+
15	c2inpD_			12.0	18	PDB header: oxidoreductase Chain: D: PDB Molecule: phenol hydroxylase component phl; PDBTitle: structure of the phenol hydroxylase-regulatory protein2 complex
16	c5f5mB_			11.8	41	PDB header: nuclear protein Chain: B: PDB Molecule: nucleoprotein; PDBTitle: crystal structure of marburg virus nucleoprotein core domain
17	c6o58C_			11.5	27	PDB header: transport protein Chain: C: PDB Molecule: calcium uniporter protein, mitochondrial; PDBTitle: human mcu-emre complex, dimer of channel
18	d1d5ta2			11.1	20	Fold: FAD-linked reductases, C-terminal domain Superfamily: FAD-linked reductases, C-terminal domain Family: GDI-like
19	c1unvB_			10.9	21	PDB header: four helix bundle Chain: B: PDB Molecule: general control protein gcn4; PDBTitle: structure based engineering of internal molecular surfaces of four2 helix bundles
20	c1unvA_			10.9	21	PDB header: four helix bundle Chain: A: PDB Molecule: general control protein gcn4; PDBTitle: structure based engineering of internal molecular surfaces of four2 helix bundles
21	c1u9gA_		not modelled	10.7	21	PDB header: transcription Chain: A: PDB Molecule: general control protein gcn4; PDBTitle: heterocyclic peptide backbone modification in gcn4-pli based coiled2 coils: replacement of k(8)l(9)
22	c1unzB_		not modelled	9.6	21	PDB header: four helix bundle Chain: B: PDB Molecule: general control protein gcn4; PDBTitle: structure based engineering of internal molecular surfaces2 of four helix bundles
23	c1unzA_		not modelled	9.6	21	PDB header: four helix bundle Chain: A: PDB Molecule: general control protein gcn4; PDBTitle: structure based engineering of internal molecular surfaces2 of four helix bundles
24	c2hnbA_		not modelled	8.9	18	PDB header: electron transport Chain: A: PDB Molecule: protein mioc; PDBTitle: solution structure of a bacterial holo-flavodoxin
25	c1u9gB_		not modelled	8.8	21	PDB header: transcription Chain: B: PDB Molecule: general control protein gcn4; PDBTitle: heterocyclic peptide backbone modification in gcn4-pli based coiled2 coils: replacement of k(8)l(9)
26	d1t6ca1		not modelled	8.4	27	Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Ppx/GppA phosphatase
27	c1w5kA_		not modelled	7.3	22	PDB header: four helix bundle Chain: A: PDB Molecule: general control protein gcn4; PDBTitle: an anti-parallel four helix bundle
28	c1w5kD_		not modelled	7.3	22	PDB header: four helix bundle Chain: D: PDB Molecule: general control protein gcn4; PDBTitle: an anti-parallel four helix bundle
						PDB header: four helix bundle

29	c1w5kC	Alignment	not modelled	7.3	22	Chain: C: PDB Molecule: general control protein gcn4; PDBTitle: an anti-parallel four helix bundle
30	c1w5kB	Alignment	not modelled	7.3	22	PDB header: four helix bundle Chain: B: PDB Molecule: general control protein gcn4; PDBTitle: an anti-parallel four helix bundle
31	d1vl2a2	Alignment	not modelled	7.2	18	Fold: Argininosuccinate synthetase, C-terminal domain Superfamily: Argininosuccinate synthetase, C-terminal domain Family: Argininosuccinate synthetase, C-terminal domain
32	d1h2vc2	Alignment	not modelled	7.0	20	Fold: alpha-alpha superhelix Superfamily: ARM repeat Family: MIF4G domain-like
33	c2zdiC	Alignment	not modelled	7.0	21	PDB header: chaperone Chain: C: PDB Molecule: prefoldin subunit alpha; PDBTitle: crystal structure of prefoldin from pyrococcus horikoshii ot3
34	c1unyA	Alignment	not modelled	7.0	25	PDB header: four helix bundle Chain: A: PDB Molecule: general control protein gcn4; PDBTitle: structure based engineering of internal molecular surfaces2 of four helix bundles
35	d1fxkc	Alignment	not modelled	6.7	14	Fold: Long alpha-hairpin Superfamily: Prefoldin Family: Prefoldin
36	c2la3A	Alignment	not modelled	6.2	27	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: the nmr structure of the protein np_344798.1 reveals a cca-adding2 enzyme head domain
37	c4xtbA	Alignment	not modelled	6.2	26	PDB header: transport protein Chain: A: PDB Molecule: calcium uniporter protein, mitochondrial; PDBTitle: crystal structure of the n-terminal domain of the human mitochondrial2 calcium uniporter
38	d1hn0a4	Alignment	not modelled	5.9	33	Fold: Supersandwich Superfamily: Galactose mutarotase-like Family: Hyaluronate lyase-like, central domain
39	c3u80A	Alignment	not modelled	5.7	28	PDB header: unknown function Chain: A: PDB Molecule: 3-dehydroquinate dehydratase, type ii; PDBTitle: 1.60 angstrom resolution crystal structure of a 3-dehydroquinate2 dehydratase-like protein from bifidobacterium longum
40	d1om2a	Alignment	not modelled	5.4	25	Fold: Open three-helical up-and-down bundle Superfamily: Mitochondrial import receptor subunit Tom20 Family: Mitochondrial import receptor subunit Tom20
41	d1a9xa4	Alignment	not modelled	5.3	19	Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: BC N-terminal domain-like
42	c1eiyA	Alignment	not modelled	5.3	10	PDB header: ligase/rna Chain: A: PDB Molecule: phenylalanyl-trna synthetase; PDBTitle: the crystal structure of phenylalanyl-trna synthetase from thermus2 thermophilus complexed with cognate trnape
43	c6c6kD	Alignment	not modelled	5.3	33	PDB header: rna binding protein/rna Chain: D: PDB Molecule: interferon-induced protein with tetraericopeptide repeats PDBTitle: structural basis for preferential recognition of cap 0 rna by a human ifit1-ifit3 protein complex
44	d1n7oa3	Alignment	not modelled	5.2	38	Fold: Supersandwich Superfamily: Galactose mutarotase-like Family: Hyaluronate lyase-like, central domain
45	c5b88A	Alignment	not modelled	5.2	16	PDB header: rna binding protein Chain: A: PDB Molecule: atp-dependent rna helicase dead; PDBTitle: rrm-like domain of dead-box protein, csda
46	d1cb8a3	Alignment	not modelled	5.2	13	Fold: Supersandwich Superfamily: Galactose mutarotase-like Family: Hyaluronate lyase-like, central domain
47	d1x1ia3	Alignment	not modelled	5.2	25	Fold: Supersandwich Superfamily: Galactose mutarotase-like Family: Hyaluronate lyase-like, central domain