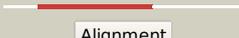
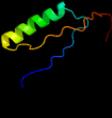
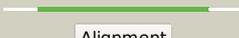
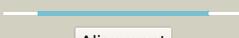
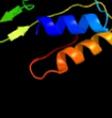
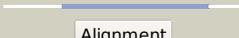
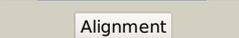
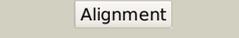


Phyre2

Email mdejesus@rockefeller.edu
 Description RVBD0053_(rpsF)_58189_58479
 Date Tue Jul 23 14:50:08 BST 2019
 Unique Job ID fb43ea73dbdb0e37

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5o5jF_	Alignment		100.0	92	PDB header: ribosome Chain: F; PDB Molecule: 30s ribosomal protein s6; PDBTitle: structure of the 30s small ribosomal subunit from mycobacterium2 smegmatis
2	d2j5aa1	Alignment		100.0	30	Fold: Ferredoxin-like Superfamily: Ribosomal protein S6 Family: Ribosomal protein S6
3	d1loua_	Alignment		100.0	35	Fold: Ferredoxin-like Superfamily: Ribosomal protein S6 Family: Ribosomal protein S6
4	d1qjha_	Alignment		100.0	35	Fold: Ferredoxin-like Superfamily: Ribosomal protein S6 Family: Ribosomal protein S6
5	c3bbnF_	Alignment		100.0	27	PDB header: ribosome Chain: F; PDB Molecule: ribosomal protein s6; PDBTitle: homology model for the spinach chloroplast 30s subunit fitted to 9.4a2 cryo-em map of the 70s chlororibosome.
6	c3j0xl_	Alignment		100.0	33	PDB header: ribosome Chain: I; PDB Molecule: 30s ribosomal protein s6; PDBTitle: structural characterization of mrna-trna translocation intermediates2 (30s ribosome of class 4b of the six classes)
7	c1vmbA_	Alignment		100.0	29	PDB header: translation Chain: A; PDB Molecule: 30s ribosomal protein s6; PDBTitle: crystal structure of 30s ribosomal protein s6 (tm0603) from thermotoga2 maritima at 1.70 a resolution
8	d1vmba_	Alignment		100.0	29	Fold: Ferredoxin-like Superfamily: Ribosomal protein S6 Family: Ribosomal protein S6
9	d2qalf1	Alignment		100.0	34	Fold: Ferredoxin-like Superfamily: Ribosomal protein S6 Family: Ribosomal protein S6
10	c2qbbF_	Alignment		100.0	34	PDB header: ribosome Chain: F; PDB Molecule: 30s ribosomal protein s6; PDBTitle: crystal structure of the bacterial ribosome from escherichia coli in2 complex with gentamicin. this file contains the 30s subunit of the3 second 70s ribosome, with gentamicin bound. the entire crystal4 structure contains two 70s ribosomes and is described in remark 400.
11	c3r3tA_	Alignment		99.9	37	PDB header: rna binding protein Chain: A; PDB Molecule: 30s ribosomal protein s6; PDBTitle: crystal structure of 30s ribosomal protein s from bacillus anthracis

12	c3j6vF_	 Alignment		99.9	28	PDB header: ribosome Chain: F: PDB Molecule: 28s ribosomal protein s6, mitochondrial; PDBTitle: cryo-em structure of the small subunit of the mammalian mitochondrial2 ribosome
13	c2kjaA_	 Alignment		99.7	41	PDB header: ribosomal protein Chain: A: PDB Molecule: 30s ribosomal protein s6; PDBTitle: solution structure and backbone dynamics of the permutant p54-55
14	c2zw2B_	 Alignment		56.0	13	PDB header: ligase Chain: B: PDB Molecule: putative uncharacterized protein sts178; PDBTitle: crystal structure of formylglycinamide ribonucleotide amidotransferase2 iii from sulfobolbus tokodaii (stpurs)
15	d1jcb4	 Alignment		49.4	21	Fold: Ferredoxin-like Superfamily: Anticodon-binding domain of PheRS Family: Anticodon-binding domain of PheRS
16	d1gtda_	 Alignment		37.1	14	Fold: PurS-like Superfamily: PurS-like Family: PurS subunit of FGAM synthetase
17	d1phza1	 Alignment		32.2	7	Fold: Ferredoxin-like Superfamily: ACT-like Family: Phenylalanine metabolism regulatory domain
18	c2akwB_	 Alignment		29.8	21	PDB header: ligase Chain: B: PDB Molecule: phenylalanyl-trna synthetase beta chain; PDBTitle: crystal structure of t.thermophilus phenylalanyl-trna synthetase2 complexed with p-cl-phenylalanine
19	d1sc6a3	 Alignment		29.6	18	Fold: Ferredoxin-like Superfamily: ACT-like Family: Phosphoglycerate dehydrogenase, regulatory (C-terminal) domain
20	d1vq3a_	 Alignment		27.8	18	Fold: PurS-like Superfamily: PurS-like Family: PurS subunit of FGAM synthetase
21	c2mdaB_	 Alignment	not modelled	26.5	9	PDB header: oxidoreductase Chain: B: PDB Molecule: tyrosine 3-monooxygenase; PDBTitle: the solution structure of the regulatory domain of tyrosine2 hydroxylase
22	c5a13j_	 Alignment	not modelled	23.7	9	PDB header: oxidoreductase Chain: J: PDB Molecule: chlorite dismutase; PDBTitle: crystal structure of chlorite dismutase from2 magnetospirillum sp. in complex with thiocyanate
23	d3b5ha2	 Alignment	not modelled	21.1	23	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
24	c3fmbA_	 Alignment	not modelled	20.7	7	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: dimeric protein of unknown function and ferredoxin-like PDBTitle: crystal structure of dimeric protein of unknown function and2 ferredoxin-like fold (yp_212648.1) from bacteroides fragilis nctc3 9343 at 1.85 a resolution
25	c2ybvN_	 Alignment	not modelled	18.9	26	PDB header: lyase Chain: N: PDB Molecule: ribulose bisphosphate carboxylase small subunit; PDBTitle: structure of rubisco from thermosynechococcus elongatus
26	d1uzhc1	 Alignment	not modelled	15.4	14	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
27	d2nzca1	 Alignment	not modelled	15.1	9	Fold: Ferredoxin-like Superfamily: ACT-like Family: TM1266-like
						PDB header: transferase Chain: B: PDB Molecule: upf0106 protein ph0461;

28	c2yy8B_	Alignment	not modelled	14.3	19	PDBTitle: crystal structure of archaeal trna-methylase for position256 (atrm56) from pyrococcus horikoshii, complexed with s-3adenosyl-l-methionine
29	d1svdm1	Alignment	not modelled	13.9	10	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
30	d1t4aa_	Alignment	not modelled	13.9	15	Fold: PurS-like Superfamily: PurS-like Family: PurS subunit of FGAM synthetase
31	d3bpdal	Alignment	not modelled	12.9	33	Fold: Ferredoxin-like Superfamily: MTH889-like Family: MTH889-like
32	d2raqa1	Alignment	not modelled	12.8	22	Fold: Ferredoxin-like Superfamily: MTH889-like Family: MTH889-like
33	c2yx5A_	Alignment	not modelled	12.7	13	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: upf0062 protein mj1593; PDBTitle: crystal structure of methanocaldococcus jannaschii purs, one of the2 subunits of formylglycinamide ribonucleotide amidotransferase in the3 purine biosynthetic pathway
34	c3nrbD_	Alignment	not modelled	11.4	8	PDB header: hydrolase Chain: D: PDB Molecule: formyltetrahydrofolate deformylase; PDBTitle: crystal structure of a formyltetrahydrofolate deformylase (puru,2 pp_1943) from pseudomonas putida kt2440 at 2.05 a resolution
35	c2vxhF_	Alignment	not modelled	11.2	17	PDB header: oxidoreductase Chain: F: PDB Molecule: chlorite dismutase; PDBTitle: the crystal structure of chlorite dismutase: a detox enzyme2 producing molecular oxygen
36	c2x3dC_	Alignment	not modelled	11.2	11	PDB header: unknown function Chain: C: PDB Molecule: ss06206; PDBTitle: crystal structure of sso6206 from sulfobolus solfataricus p2
37	c5ekaA_	Alignment	not modelled	10.8	14	PDB header: dna binding protein Chain: A: PDB Molecule: dna-binding protein hu; PDBTitle: hu dna-binding protein from thermus thermophilus
38	c5fmsA_	Alignment	not modelled	10.6	15	PDB header: transport protein Chain: A: PDB Molecule: intraflagellar transport protein 52 homolog; PDBTitle: mmift52 n-terminal domain
39	d1a6fa_	Alignment	not modelled	9.9	12	Fold: Ribosomal protein S5 domain 2-like Superfamily: Ribosomal protein S5 domain 2-like Family: RNase P protein
40	c5by3A_	Alignment	not modelled	9.5	18	PDB header: sugar binding protein Chain: A: PDB Molecule: btgh115a; PDBTitle: a novel family gh115 4-o-methyl-alpha-glucuronidase, btgh115a, with2 specificity for decorated arabinogalactans
41	c4qjuB_	Alignment	not modelled	9.0	9	PDB header: dna binding protein/dna Chain: B: PDB Molecule: dna-binding protein hu; PDBTitle: crystal structure of dna-bound nucleoid associated protein, sav1473
42	c4zmhA_	Alignment	not modelled	9.0	30	PDB header: hydrolase Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a five-domain gh115 alpha-glucuronidase from the2 marine bacterium saccharophagus degradans 2-40t
43	d3blhb1	Alignment	not modelled	8.2	14	Fold: Cyclin-like Superfamily: Cyclin-like Family: Cyclin
44	d1sqwa2	Alignment	not modelled	8.2	17	Fold: Cystatin-like Superfamily: Pre-PUA domain Family: Nip7p homolog, N-terminal domain
45	d1f9ya_	Alignment	not modelled	8.1	23	Fold: Ferredoxin-like Superfamily: 6-hydroxymethyl-7,8-dihydropterin pyrophosphokinase, HPPK Family: 6-hydroxymethyl-7,8-dihydropterin pyrophosphokinase, HPPK
46	c4c90B_	Alignment	not modelled	8.0	30	PDB header: hydrolase Chain: B: PDB Molecule: alpha-glucuronidase gh115; PDBTitle: evidence that gh115 alpha-glucuronidase activity is2 dependent on conformational flexibility
47	c5nv3P_	Alignment	not modelled	7.6	15	PDB header: lyase Chain: P: PDB Molecule: ribulose bisphosphate carboxylase small chain 1; PDBTitle: structure of rubisco from rhodobacter sphaeroides in complex with cabp
48	d1bwvs_	Alignment	not modelled	7.3	13	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
49	c2ljpA_	Alignment	not modelled	7.3	9	PDB header: hydrolase Chain: A: PDB Molecule: ribonuclease p protein component; PDBTitle: backbone 1h, 13c, and 15n chemical shift assignments for e.coli2 ribonuclease p protein
50	c2rhsB_	Alignment	not modelled	7.2	15	PDB header: ligase Chain: B: PDB Molecule: phenylalanyl-trna synthetase beta chain; PDBTitle: phers from staphylococcus haemolyticus- rational protein engineering2 and inhibitor studies
51	c1y9jA_	Alignment	not modelled	6.5	13	PDB header: protein transport Chain: A: PDB Molecule: sec1 family domain containing protein 1; PDBTitle: solution structure of the rat sly1 n-terminal domain
52	c2jnvA_	Alignment	not modelled	6.4	24	PDB header: metal transport Chain: A: PDB Molecule: nifu-like protein 1, chloroplast; PDBTitle: solution structure of c-terminal domain of nifu-like2 protein from oryza sativa
53	d1huua_	Alignment	not modelled	6.4	11	Fold: IHF-like DNA-binding proteins Superfamily: IHF-like DNA-binding proteins

						Family: Prokaryotic DNA-bending protein
54	d1x4oa1	Alignment	not modelled	6.3	13	Fold: Surp module (SWAP domain) Superfamily: Surp module (SWAP domain) Family: Surp module (SWAP domain)
55	d2gtln1	Alignment	not modelled	6.3	19	Fold: Streptavidin-like Superfamily: Extracellular hemoglobin linker subunit, receptor domain Family: Extracellular hemoglobin linker subunit, receptor domain
56	c2yy3B	Alignment	not modelled	6.1	16	PDB header: translation Chain: B: PDB Molecule: elongation factor 1-beta; PDBTitle: crystal structure of translation elongation factor ef-1 beta from2 pyrococcus horikoshii
57	c3fpjA	Alignment	not modelled	6.0	9	PDB header: biosynthetic protein, transferase Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of e81q mutant of mtnas in complex with s-2 adenosylmethionine
58	d1d6ta	Alignment	not modelled	5.8	15	Fold: Ribosomal protein S5 domain 2-like Superfamily: Ribosomal protein S5 domain 2-like Family: RNase P protein
59	c2z51A	Alignment	not modelled	5.7	29	PDB header: metal transport Chain: A: PDB Molecule: nifu-like protein 2, chloroplast; PDBTitle: crystal structure of arabidopsis cnfu involved in iron-sulfur cluster2 biosynthesis
60	d2id1a1	Alignment	not modelled	5.7	16	Fold: Nucleotidyltransferase Superfamily: Nucleotidyltransferase Family: !ojap/YbeB-like
61	c6eznG	Alignment	not modelled	5.7	9	PDB header: membrane protein Chain: G: PDB Molecule: dolichyl-diphosphooligosaccharide--protein PDBTitle: cryo-em structure of the yeast oligosaccharyltransferase (ost) complex
62	c1kcfB	Alignment	not modelled	5.6	17	PDB header: hydrolase Chain: B: PDB Molecule: hypothetical 30.2 kd protein c25g10.02 in PDBTitle: crystal structure of the yeast mitochondrial holliday2 junction resolvase, ydc2
63	c5d4pA	Alignment	not modelled	5.6	33	PDB header: signaling protein Chain: A: PDB Molecule: putative nitrogen regulatory protein p-ii glnb; PDBTitle: structure of cpil bound to adp and bicarbonate, from thiomonas2 intermedia k12
64	d2o3aa1	Alignment	not modelled	5.5	15	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: AF0751-like
65	c2np2B	Alignment	not modelled	5.4	12	PDB header: dna binding protein/dna Chain: B: PDB Molecule: hbb; PDBTitle: hbb-dna complex
66	d1th5a1	Alignment	not modelled	5.4	24	Fold: Alpha-lytic protease prodomain-like Superfamily: Fe-S cluster assembly (FSCA) domain-like Family: NifU C-terminal domain-like
67	d1ir1s	Alignment	not modelled	5.3	17	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
68	c4wcbB	Alignment	not modelled	5.3	22	PDB header: translation Chain: B: PDB Molecule: ribosomal silencing factor rsfs; PDBTitle: ribosomal silencing factor during starvation or stationary phase2 (rsfs) from mycobacterium tuberculosis