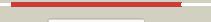
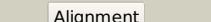
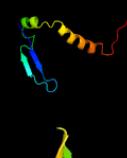
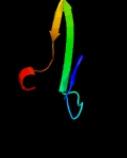
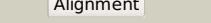
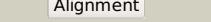
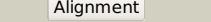
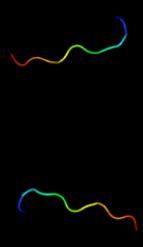
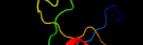


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD1794 (-) _2031073_2031975
Date	Fri Aug 2 13:30:40 BST 2019
Unique Job ID	abce7bc38a736141

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4kxrC_			100.0	99	PDB header: protein transport Chain: C: PDB Molecule: espg5; PDBTitle: structure of the mycobacterium tuberculosis type vii secretion system2 chaperone esp5 in complex with pe25-ppe41 dimer
2	c4l4wB_			100.0	21	PDB header: protein transport Chain: B: PDB Molecule: espg3; PDBTitle: structure of esp5 chaperone from the type vii (esx-3) secretion2 system
3	c4w4iA_			100.0	21	PDB header: protein transport Chain: A: PDB Molecule: esx-3 secretion-associated protein esp5; PDBTitle: crystal structure of esp5 from the esx-3 type vii secretion system of m. tuberculosis
4	c4rcIB_			100.0	20	PDB header: chaperone Chain: B: PDB Molecule: espg3; PDBTitle: structure of esp5 chaperone from the type vii (esx-3) secretion2 system, space group p43212
5	c5vbaA_			100.0	26	PDB header: chaperone, hydrolase Chain: A: PDB Molecule: lysozyme, esx-1 secretion-associated protein esp5 chimera; PDBTitle: structure of esp5 chaperone from the type vii (esx-3) secretion2 system determined with the assistance of n-terminal t4 lysozyme3 fusion
6	d1w79a1			24.6	16	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: Dac-like
7	c4rdkB_			17.6	21	PDB header: viral protein Chain: B: PDB Molecule: capsid; PDBTitle: crystal structure of norovirus boxer p domain in complex with lewis b2 tetrasaccharide
8	c3a3eb_			15.5	20	PDB header: hydrolase Chain: B: PDB Molecule: penicillin-binding protein 4; PDBTitle: crystal structure of penicillin binding protein 4 (dacb) from2 haemophilus influenzae, complexed with novel beta-lactam (cmv)
9	d1hypn_			13.8	15	Fold: Phoshotransferase/anion transport protein Superfamily: Phoshotransferase/anion transport protein Family: Anion transport protein, cytoplasmic domain
10	d1ppva_			13.1	12	Fold: Nudix Superfamily: Nudix Family: IPP isomerase-like
11	c1hynQ_			11.8	15	PDB header: membrane protein Chain: Q: PDB Molecule: band 3 anion transport protein; PDBTitle: crystal structure of the cytoplasmic domain of human erythrocyte band-2 3 protein

12	d1rk8c_	Alignment		11.5	45	Fold: WW domain-like Superfamily: Pym (Within the bgcn gene intron protein, WIBG), N-terminal domain Family: Pym (Within the bgcn gene intron protein, WIBG), N-terminal domain
13	c1rk8C_	Alignment		11.5	45	PDB header: translation Chain: C: PDB Molecule: within the bgcn gene intron protein; PDBTitle: structure of the cytosolic protein pym bound to the mago-2 y14 core of the exon junction complex
14	c2ei5B_	Alignment		11.2	23	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: hypothetical protein ttha0061; PDBTitle: crystal structure of hypothetical protein(ttha0061) from thermus2 thermophilus
15	d1u94a2	Alignment		10.3	25	Fold: Anti-LPS factor/recA domain Superfamily: RecA protein, C-terminal domain Family: RecA protein, C-terminal domain
16	d1mo6a2	Alignment		10.2	38	Fold: Anti-LPS factor/recA domain Superfamily: RecA protein, C-terminal domain Family: RecA protein, C-terminal domain
17	d2fvva1	Alignment		10.1	21	Fold: Nudix Superfamily: Nudix Family: MutT-like
18	c2fvvA_	Alignment		10.1	21	PDB header: hydrolase Chain: A: PDB Molecule: diphosphoinositol polyphosphate phosphohydrolase 1; PDBTitle: human diphosphoinositol polyphosphate phosphohydrolase 1
19	c2v4oB_	Alignment		10.0	25	PDB header: hydrolase Chain: B: PDB Molecule: multifunctional protein sur e; PDBTitle: crystal structure of salmonella typhimurium sur e at 2.752 angstrom resolution in monoclinic form
20	d1rrqa2	Alignment		9.7	11	Fold: Nudix Superfamily: Nudix Family: MutY C-terminal domain-like
21	d1kdga2	Alignment	not modelled	9.4	21	Fold: FAD-linked reductases, C-terminal domain Superfamily: FAD-linked reductases, C-terminal domain Family: GMC oxidoreductases
22	d1xp8a2	Alignment	not modelled	9.2	13	Fold: Anti-LPS factor/recA domain Superfamily: RecA protein, C-terminal domain Family: RecA protein, C-terminal domain
23	d1ubea2	Alignment	not modelled	9.1	38	Fold: Anti-LPS factor/recA domain Superfamily: RecA protein, C-terminal domain Family: RecA protein, C-terminal domain
24	c2ly2A_	Alignment	not modelled	8.7	26	PDB header: rna binding protein Chain: A: PDB Molecule: tudor domain-containing protein 7; PDBTitle: nmr structure of the second and third lotus domains of tudor domain-2 containing protein 7 (nmr ensemble overlay for lotus #3)
25	d2ex2a1	Alignment	not modelled	8.6	17	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: Dac-like
26	d1w5da1	Alignment	not modelled	8.3	9	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: Dac-like
27	d1v7ba2	Alignment	not modelled	8.1	15	Fold: Tetracyclin repressor-like, C-terminal domain Superfamily: Tetracyclin repressor-like, C-terminal domain Family: Tetracyclin repressor-like, C-terminal domain
28	c4dibF_	Alignment	not modelled	7.5	33	PDB header: oxidoreductase Chain: F: PDB Molecule: glyceraldehyde 3-phosphate dehydrogenase; PDBTitle: the crystal structure of glyceraldehyde-3-phosphate dehydrogenase from2 bacillus anthracis str. sterne PDB header: oxidoreductase

29	c2x5kO	Alignment	not modelled	7.4	33	Chain: O: PDB Molecule: d-erythrose-4-phosphate dehydrogenase; PDBTitle: structure of an active site mutant of the d-erythrose-4-phosphate2 dehydrogenase from e. coli
30	c5fg0A	Alignment	not modelled	7.3	7	PDB header: dna binding protein Chain: A: PDB Molecule: cg1507-pb, isoform b; PDBTitle: crystal structure of d. melanogaster pur-alpha repeat iii.
31	c2eh6A	Alignment	not modelled	7.2	10	PDB header: transferase Chain: A: PDB Molecule: acetylornithine aminotransferase; PDBTitle: crystal structure of acetylornithine aminotransferase from aquifeox2 aeolicus vf5
32	c2o1cB	Alignment	not modelled	7.1	15	PDB header: hydrolase Chain: B: PDB Molecule: dapt pyrophosphohydrolase; PDBTitle: structure of the e. coli dihydroneopterin triphosphate2 pyrophosphohydrolase
33	c4zyeA	Alignment	not modelled	7.1	21	PDB header: transferase Chain: A: PDB Molecule: methylated-dna--protein-cysteine methyltransferase; PDBTitle: crystal structure of sulfolobus solfataricus o6-methylguanine2 methyltransferase
34	c2i5pO	Alignment	not modelled	7.0	22	PDB header: oxidoreductase Chain: O: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase 1; PDBTitle: crystal structure of glyceraldehyde-3-phosphate2 dehydrogenase isoform 1 from k. marxianus
35	c5jyfB	Alignment	not modelled	6.9	22	PDB header: oxidoreductase Chain: B: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: structures of streptococcus agalactiae gbs gapdh in different2 enzymatic states
36	c4qx6A	Alignment	not modelled	6.7	22	PDB header: oxidoreductase Chain: A: PDB Molecule: glyceraldehyde 3-phosphate dehydrogenase; PDBTitle: crystal structure of glyceraldehyde-3-phosphate dehydrogenase from streptococcus agalactiae nem316 at 2.46 angstrom resolution
37	c1obfO	Alignment	not modelled	6.5	33	PDB header: glycolytic pathway Chain: O: PDB Molecule: glyceraldehyde 3-phosphate dehydrogenase; PDBTitle: the crystal structure of glyceraldehyde 3-phosphate2 dehydrogenase from alcaligenes xylosoxidans at 1.7 a3 resolution.
38	c5ur0B	Alignment	not modelled	6.4	22	PDB header: oxidoreductase Chain: B: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: crystallographic structure of glyceraldehyde-3-phosphate dehydrogenase2 from naegleria gruberi
39	c3h9eO	Alignment	not modelled	6.4	33	PDB header: oxidoreductase Chain: O: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase, testis-specific; PDBTitle: crystal structure of human sperm-specific glyceraldehyde-3-phosphate2 dehydrogenase (gapds) complex with nad and phosphate
40	c5j9gB	Alignment	not modelled	6.4	11	PDB header: oxidoreductase Chain: B: PDB Molecule: glyceraldehyde-3-p dehydrogenase; PDBTitle: structure of lactobacillus acidophilus glyceraldehyde-3-phosphate2 dehydrogenase at 2.21 angstrom resolution
41	c1s7cA	Alignment	not modelled	6.4	33	PDB header: structural genomics, oxidoreductase Chain: A: PDB Molecule: glyceraldehyde 3-phosphate dehydrogenase a; PDBTitle: crystal structure of mes buffer bound form of glyceraldehyde 3-2 phosphate dehydrogenase from escherichia coli
42	c2b4rQ	Alignment	not modelled	6.3	33	PDB header: oxidoreductase Chain: Q: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: crystal structure of glyceraldehyde-3-phosphate dehydrogenase from plasmodium falciparum at 2.25 angstrom resolution reveals intriguing3 extra electron density in the active site
43	c3hq4R	Alignment	not modelled	6.3	11	PDB header: oxidoreductase Chain: R: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase 1; PDBTitle: crystal structure of c151s mutant of glyceraldehyde-3-phosphate2 dehydrogenase 1 (gapdh1) complexed with nad from staphylococcus3 aureus mrsa252 at 2.2 angstrom resolution
44	d1v8ya	Alignment	not modelled	6.3	13	Fold:Nudix Superfamily:Nudix Family:MutT-like
45	d1g26a	Alignment	not modelled	6.2	50	Fold:Knottins (small inhibitors, toxins, lectins) Superfamily:Granulin repeat Family:Granulin repeat
46	c2d2iO	Alignment	not modelled	6.2	22	PDB header: oxidoreductase Chain: O: PDB Molecule: glyceraldehyde 3-phosphate dehydrogenase; PDBTitle: crystal structure of nadp-dependent glyceraldehyde-3-2 phosphate dehydrogenase from synechococcus sp. complexed3 with nadp+
47	c3cieC	Alignment	not modelled	6.2	33	PDB header: oxidoreductase Chain: C: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: crystal structure of glyceraldehyde 3-phosphate2 dehydrogenase from cryptosporidium parvum
48	c5ld5C	Alignment	not modelled	6.2	22	PDB header: oxidoreductase Chain: C: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: crystal structure of a bacterial dehydrogenase at 2.19 angstroms2 resolution
49	c3nx3A	Alignment	not modelled	6.1	12	PDB header: transferase Chain: A: PDB Molecule: acetylornithine aminotransferase; PDBTitle: crystal structure of acetylornithine aminotransferase (argd) from2 campylobacter jejuni
50	c3h20P	Alignment	not modelled	6.1	22	PDB header: oxidoreductase Chain: R: PDB Molecule: glyceraldehyde 3-phosphate dehydrogenase (nadp+);

50	c2ep7B	Alignment	not modelled	6.1	22	PDBTitle: crystal structure of glyceraldehyde-3-phosphate dehydrogenase2 complexed with nadrfrom <i>synechococcus elongatus</i> " PDB header: oxidoreductase Chain: B: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: structural study of project id aq_1065 from <i>aquifex aeolicus</i> vf5
51	c1ihxD	Alignment	not modelled	6.0	22	PDB header: oxidoreductase Chain: D: PDB Molecule: glyceraldehyde 3-phosphate dehydrogenase; PDBTitle: crystal structure of two d-glyceraldehyde-3-phosphate2 dehydrogenase complexes: a case of asymmetry
52	c1hdgO	Alignment	not modelled	6.0	33	PDB header: oxidoreductase (aldehyd)-nad(a)) Chain: O: PDB Molecule: holo-d-glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: the crystal structure of holo-glyceraldehyde-3-phosphate dehydrogenase2 from the hyperthermophilic bacterium <i>thermotoga maritima</i> at 2.53 angstroms resolution
53	d1qbea	Alignment	not modelled	6.0	20	Fold: RNA bacteriophage capsid protein Superfamily: RNA bacteriophage capsid protein Family: RNA bacteriophage capsid protein
54	c4o9IA	Alignment	not modelled	5.9	17	PDB header: antiviral protein Chain: A: PDB Molecule: mitochondrial antiviral signaling protein (mavs); PDBTitle: crystal structure of horse mavs card domain mutant e26r
55	c3docD	Alignment	not modelled	5.9	44	PDB header: oxidoreductase Chain: D: PDB Molecule: glyceraldehyde 3-phosphate dehydrogenase; PDBTitle: crystal structure of trka glyceraldehyde-3-phosphate dehydrogenase2 from <i>brucella melitensis</i>
56	c3hjaB	Alignment	not modelled	5.9	44	PDB header: oxidoreductase Chain: B: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: crystal structure of glyceraldehyde-3-phosphate dehydrogenase from2 <i>borrelia burgdorferi</i>
57	c2pkrl	Alignment	not modelled	5.8	22	PDB header: oxidoreductase Chain: I: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase aor; PDBTitle: crystal structure of (a+cte)4 chimeric form of photosynthetic2 glyceraldehyde-3-phosphate dehydrogenase, complexed with nadp
58	c1cerC	Alignment	not modelled	5.8	22	PDB header: oxidoreductase (aldehyde(d)-nad(a)) Chain: C: PDB Molecule: holo-d-glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: determinants of enzyme thermostability observed in the2 molecular structure of <i>thermus aquaticus</i> d-glyceraldehyde-3 3-phosphate dehydrogenase at 2.5 angstroms resolution
59	c6ok4A	Alignment	not modelled	5.8	22	PDB header: oxidoreductase Chain: A: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: crystal structure of glyceraldehyde-3-phosphate dehydrogenase (gapdh)2 from <i>chlamydia trachomatis</i> with bound nad
60	c1rm4O	Alignment	not modelled	5.7	22	PDB header: oxidoreductase Chain: O: PDB Molecule: glyceraldehyde 3-phosphate dehydrogenase a; PDBTitle: crystal structure of recombinant photosynthetic glyceraldehyde-3-2 phosphate dehydrogenase a4 isoform, complexed with nadp
61	d1mgta1	Alignment	not modelled	5.7	11	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Methylated DNA-protein cysteine methyltransferase, C-terminal domain Family: Methylated DNA-protein cysteine methyltransferase, C-terminal domain
62	c3sthA	Alignment	not modelled	5.7	33	PDB header: oxidoreductase Chain: A: PDB Molecule: glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: crystal structure of glyceraldehyde-3-phosphate dehydrogenase from2 <i>toxoplasma gondii</i>
63	d1vhza	Alignment	not modelled	5.6	2	Fold: Nudix Superfamily: Nudix Family: MutT-like
64	c1i32D	Alignment	not modelled	5.6	22	PDB header: oxidoreductase Chain: D: PDB Molecule: glyceraldehyde 3-phosphate dehydrogenase; PDBTitle: leishmania mexicana glyceraldehyde-3-phosphate2 dehydrogenase in complex with inhibitors
65	c3u5gK	Alignment	not modelled	5.4	21	PDB header: ribosome Chain: K: PDB Molecule: 40s ribosomal protein s10-a; PDBTitle: the structure of the eukaryotic ribosome at 3.0 a resolution. this2 entry contains proteins of the 40s subunit, ribosome b
66	c3i4jC	Alignment	not modelled	5.2	16	PDB header: transferase Chain: C: PDB Molecule: aminotransferase, class iii; PDBTitle: crystal structure of aminotransferase, class iii from <i>deinococcus2 radiodurans</i>