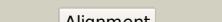
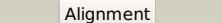
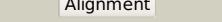
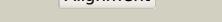
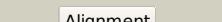
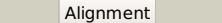
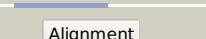
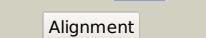
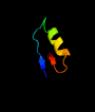
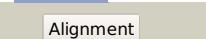
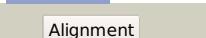
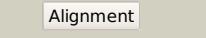
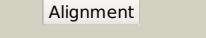
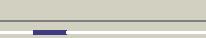
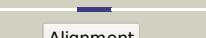
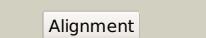


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD0395_(-)_474943_475347
Date	Tue Jul 23 14:50:46 BST 2019
Unique Job ID	dff7f8b4043cba10

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2f7IA			66.0	9	PDB header: isomerase Chain: A: PDB Molecule: 455aa long hypothetical phospho-sugar mutase; PDBTitle: crystal structure of sulfolobus tokodaii2 phosphomannomutase/phosphoglucomutase
2	c3pdkB			54.7	15	PDB header: isomerase Chain: B: PDB Molecule: phosphoglucosamine mutase; PDBTitle: crystal structure of phosphoglucosamine mutase from b. anthracis
3	c1c4gB			54.4	11	PDB header: transferase Chain: B: PDB Molecule: protein (alpha-d-glucose 1-phosphate phosphoglucomutase); PDBTitle: phosphoglucomutase vanadate based transition state analog complex
4	c1kf1A			52.9	14	PDB header: isomerase Chain: A: PDB Molecule: phosphoglucomutase 1; PDBTitle: crystal structure of the exocytosis-sensitive2 phosphoprotein, pp63/parafusin (phosphoglucomutase) from3 paramecium
5	d1kf1a1			42.5	11	Fold: Phosphoglucomutase, first 3 domains Superfamily: Phosphoglucomutase, first 3 domains Family: Phosphoglucomutase, first 3 domains
6	c6gyzB			42.0	17	PDB header: isomerase Chain: B: PDB Molecule: phosphoglucosamine mutase; PDBTitle: crystal structure of glmm from staphylococcus aureus
7	c4jhjA			36.8	15	PDB header: isomerase Chain: A: PDB Molecule: phosphomannomutase; PDBTitle: iodide sad phased crystal structure of a phosphoglucomutase from2 brucella melitensis complexed with glucose-6-phosphate
8	c5bmpA			35.6	22	PDB header: isomerase Chain: A: PDB Molecule: phosphoglucomutase; PDBTitle: crystal structure of phosphoglucomutase from xanthomonas citri2 complexed with glucose-1-phosphate
9	c2z0fA			34.5	19	PDB header: isomerase Chain: A: PDB Molecule: putative phosphoglucomutase; PDBTitle: crystal structure of putative phosphoglucomutase from thermus2 thermophilus hb8
10	c1wqaB			32.7	20	PDB header: isomerase Chain: B: PDB Molecule: phospho-sugar mutase; PDBTitle: crystal structure of pyrococcus horikoshii2 phosphomannomutase/phosphoglucomutase complexed with mg2+
11	d1p5dx1			30.5	15	Fold: Phosphoglucomutase, first 3 domains Superfamily: Phosphoglucomutase, first 3 domains Family: Phosphoglucomutase, first 3 domains

12	c5n4cG_			28.0	39	PDB header: hydrolase Chain: G: PDB Molecule: alpha-amanitin proprotein; PDBTitle: prolyl oligopeptidase b from galerina marginata bound to 35mer2 hydrolysis and macrocyclization substrate - s577a mutant
13	c2fuvB_			26.1	20	PDB header: isomerase Chain: B: PDB Molecule: phosphoglucomutase; PDBTitle: phosphoglucomutase from salmonella typhimurium.
14	d3pmga1			22.3	11	Fold: Phosphoglucomutase, first 3 domains Superfamily: Phosphoglucomutase, first 3 domains Family: Phosphoglucomutase, first 3 domains
15	c2gamA_			21.4	23	PDB header: transferase Chain: A: PDB Molecule: beta-1,6-n-acetylglucosaminyltransferase; PDBTitle: x-ray crystal structure of murine leukocyte-type core 2 b1,6-n-2 acetylglucosaminyltransferase (c2gnt-l) in complex with galb1,3galnac
16	c3uw2A_			20.5	13	PDB header: isomerase Chain: A: PDB Molecule: phosphoglucomutase/phosphomannomutase family protein; PDBTitle: x-ray crystal structure of phosphoglucomutase/phosphomannomutase2 family protein (bth_i1489)from burkholderia thailandensis
17	c1tuoA_			20.2	17	PDB header: biosynthetic protein Chain: A: PDB Molecule: putative phosphomannomutase; PDBTitle: crystal structure of putative phosphomannomutase from thermus thermophilus hb8
18	c3c04A_			16.7	15	PDB header: isomerase Chain: A: PDB Molecule: phosphomannomutase/phosphoglucomutase; PDBTitle: structure of the p368g mutant of pmm/pgm from p. aeruginosa
19	c3nybA_			14.4	38	PDB header: transferase/rna binding protein Chain: A: PDB Molecule: poly(a) rna polymerase protein 2; PDBTitle: structure and function of the polymerase core of tramp, a rna2 surveillance complex
20	c3djca_			14.3	26	PDB header: transferase Chain: A: PDB Molecule: type iii pantothenate kinase; PDBTitle: crystal structure of pantothenate kinase from legionella pneumophila
21	d2phpa1		not modelled	13.0	20	Fold: AraD/HMP-PK domain-like Superfamily: AraD/HMP-PK domain-like Family: Phosphomethylpyrimidine kinase C-terminal domain-like
22	c3bf1C_		not modelled	12.2	23	PDB header: transferase Chain: C: PDB Molecule: type iii pantothenate kinase; PDBTitle: type iii pantothenate kinase from thermotoga maritima2 complexed with pantothenate and adp PDB header: isomerase
23	c3i3wB_		not modelled	12.2	11	Chain: B: PDB Molecule: phosphoglucomamine mutase; PDBTitle: structure of a phosphoglucomamine mutase from francisella tularensis
24	c4ev1A_		not modelled	10.5	26	PDB header: chaperone Chain: A: PDB Molecule: anabena tic22; PDBTitle: anabaena tic22 (protein transport)
25	d2otaa1		not modelled	9.7	29	Fold: YejL-like Superfamily: YejL-like Family: YejL-like
26	c2f9tB_		not modelled	9.5	32	PDB header: transferase Chain: B: PDB Molecule: pantothenate kinase; PDBTitle: structure of the type iii coaa from pseudomonas aeruginosa
27	c5uazB_		not modelled	9.0	44	PDB header: protein transport Chain: B: PDB Molecule: nucleoporin nup53; PDBTitle: crystal structure of the yeast nucleoporin
28	c2l61A_		not modelled	8.8	58	PDB header: metal binding protein Chain: A: PDB Molecule: ec protein i/ii; PDBTitle: protein and metal cluster structure of the wheat metallothionein2 domain g-ec-1. the second part of the puzzle.
						Fold: Ribonuclease H-like motif

29	d2e1za1	Alignment	not modelled	8.5	23	Superfamily: Actin-like ATPase domain Family: Acetokinase-like
30	c5fk0F	Alignment	not modelled	8.2	47	PDB header: structural protein Chain: F: PDB Molecule: coatomer subunit delta; PDBTitle: yeast delta-cop-i mu-homology domain
31	c4o8qA	Alignment	not modelled	8.1	50	PDB header: protein transport Chain: A: PDB Molecule: coatomer subunit delta; PDBTitle: crystal structure of bovine mhd domain of the copi delta subunit at2 2.15 a resolution
32	c2l62A	Alignment	not modelled	8.1	58	PDB header: metal binding protein Chain: A: PDB Molecule: ec protein i/ii; PDBTitle: protein and metal cluster structure of the wheat metallothionein2 domain g-ec-1. the second part of the puzzle.
33	c2q2eA	Alignment	not modelled	8.0	27	PDB header: isomerase Chain: A: PDB Molecule: type ii dna topoisomerase vi subunit a; PDBTitle: crystal structure of the topoisomerase vi holoenzyme from 2 methanoscincina mazei
34	c2qn5B	Alignment	not modelled	7.6	67	PDB header: hydrolase inhibitor/hydrolase Chain: B: PDB Molecule: bowman-birk type bran trypsin inhibitor; PDBTitle: crystal structure and functional study of the bowman-birk2 inhibitor from rice bran in complex with bovine trypsin
35	c5wmmB	Alignment	not modelled	7.6	27	PDB header: biosynthetic protein Chain: B: PDB Molecule: mbth homologue; PDBTitle: crystal structure of an adenylation domain interrupted by a2 methylation domain (ama4) from nonribosomal peptide synthetase tios
36	c5h1nB	Alignment	not modelled	7.2	33	PDB header: unknown function Chain: B: PDB Molecule: upf0253 protein yaep; PDBTitle: crystal structure of sf173 from shigella flexneri
37	d2j7ja2	Alignment	not modelled	7.2	53	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
38	c6cegA	Alignment	not modelled	7.1	75	PDB header: toxin Chain: A: PDB Molecule: conotoxin movib; PDBTitle: solution nmr structure of the omega conotoxin movib from conus moncuri
39	c2mfpA	Alignment	not modelled	6.8	58	PDB header: metal binding protein Chain: A: PDB Molecule: ec protein i/ii; PDBTitle: solution structure of the circular g-domain analog from the wheat2 metallothionein ec-1
40	c4o8kB	Alignment	not modelled	6.6	19	PDB header: transferase Chain: B: PDB Molecule: type iii pantothenate kinase; PDBTitle: crystal structure of type iii pantothenate kinase from burkholderia2 thailandensis, apo structure
41	c4ebaH	Alignment	not modelled	6.6	50	PDB header: structural protein/rna binding protein Chain: H: PDB Molecule: rna15; PDBTitle: crystal structure of the rna14-rna15 complex
42	d2juz1	Alignment	not modelled	6.6	38	Fold: YejL-like Superfamily: YejL-like Family: YejL-like
43	c5ja1B	Alignment	not modelled	6.3	18	PDB header: ligase Chain: B: PDB Molecule: enterobactin biosynthesis protein ybdz; PDBTitle: entf, a terminal nonribosomal peptide synthetase module bound to the2 mbth-like protein ybdz
44	c6ce1A	Alignment	not modelled	6.1	42	PDB header: hydrolase Chain: A: PDB Molecule: protein-arginine deiminase type-3; PDBTitle: crystal structure of peptidyl arginine deiminase type iii (padi3)
45	d1d3ya	Alignment	not modelled	6.0	30	Fold: DNA topoisomerase IV, alpha subunit Superfamily: DNA topoisomerase IV, alpha subunit Family: DNA topoisomerase IV, alpha subunit
46	d2gpfa1	Alignment	not modelled	5.8	23	Fold: MbtH/L9 domain-like Superfamily: MbtH-like Family: MbtH-like
47	c4uo1B	Alignment	not modelled	5.7	80	PDB header: viral protein Chain: B: PDB Molecule: genome polyprotein; PDBTitle: unexpected structure for the n-terminal domain of hepatitis c virus2 envelope glycoprotein e1
48	c3fm3B	Alignment	not modelled	5.6	19	PDB header: hydrolase Chain: B: PDB Molecule: methionine aminopeptidase 2; PDBTitle: crystal structure of an encephalitozoon cuniculi methionine2 aminopeptidase type 2
49	d2pstx1	Alignment	not modelled	5.5	23	Fold: MbtH/L9 domain-like Superfamily: MbtH-like Family: MbtH-like
50	d1g0da4	Alignment	not modelled	5.5	25	Fold: Cysteine proteinases Superfamily: Cysteine proteinases Family: Transglutaminase core
51	d2p06a1	Alignment	not modelled	5.1	43	Fold: all-alpha NTP pyrophosphatases Superfamily: all-alpha NTP pyrophosphatases Family: AF0060-like
52	c2p06A	Alignment	not modelled	5.1	43	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
53	c5u89B	Alignment	not modelled	5.1	18	PDB header: hydrolase/inhibitor Chain: B: PDB Molecule: mbth domain protein; PDBTitle: crystal structure of a cross-module fragment from the dimodular nrps2 dhbf