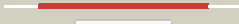



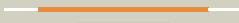
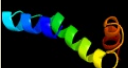

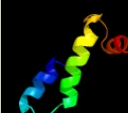
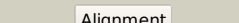



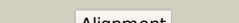

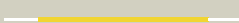




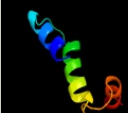




Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0744Ac_(RVBD0744Ac)_835062_835208
Date	Fri Jul 26 01:50:32 BST 2019
Unique Job ID	6415776bc56ccad2

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5y8mA_	 Alignment		95.3	87	PDB header: oxidoreductase Chain: A: PDB Molecule: probable 3-hydroxyisobutyrate dehydrogenase; PDBTitle: mycobacterium tuberculosis 3-hydroxyisobutyrate dehydrogenase2 (mthbadh) + nad + (r)-3-hydroxyisobutyrate (r-hiba)
2	d1vpda1	 Alignment		92.3	27	Fold: 6-phosphogluconate dehydrogenase C-terminal domain-like Superfamily: 6-phosphogluconate dehydrogenase C-terminal domain-like Family: Hydroxyisobutyrate and 6-phosphogluconate dehydrogenase domain
3	c3dojA_	 Alignment		86.2	32	PDB header: oxidoreductase Chain: A: PDB Molecule: dehydrogenase-like protein; PDBTitle: structure of glyoxylate reductase 1 from arabidopsis (atglyr1)
4	d2cvza1	 Alignment		85.3	24	Fold: 6-phosphogluconate dehydrogenase C-terminal domain-like Superfamily: 6-phosphogluconate dehydrogenase C-terminal domain-like Family: Hydroxyisobutyrate and 6-phosphogluconate dehydrogenase domain
5	d3cuma1	 Alignment		83.6	36	Fold: 6-phosphogluconate dehydrogenase C-terminal domain-like Superfamily: 6-phosphogluconate dehydrogenase C-terminal domain-like Family: Hydroxyisobutyrate and 6-phosphogluconate dehydrogenase domain
6	c4dlIB_	 Alignment		77.9	27	PDB header: oxidoreductase Chain: B: PDB Molecule: 2-hydroxy-3-oxopropionate reductase; PDBTitle: crystal structure of a 2-hydroxy-3-oxopropionate reductase from2 polaromonas sp. js666
7	c1yb4A_	 Alignment		75.8	24	PDB header: oxidoreductase Chain: A: PDB Molecule: tartronic semialdehyde reductase; PDBTitle: crystal structure of the tartronic semialdehyde reductase from2 salmonella typhimurium lt2
8	c2gf2B_	 Alignment		74.5	44	PDB header: oxidoreductase Chain: B: PDB Molecule: 3-hydroxyisobutyrate dehydrogenase; PDBTitle: crystal structure of human hydroxyisobutyrate dehydrogenase
9	c3cumA_	 Alignment		73.8	34	PDB header: oxidoreductase Chain: A: PDB Molecule: probable 3-hydroxyisobutyrate dehydrogenase; PDBTitle: crystal structure of a possible 3-hydroxyisobutyrate dehydrogenase2 from pseudomonas aeruginosa pao1
10	c2cvzD_	 Alignment		67.5	24	PDB header: oxidoreductase Chain: D: PDB Molecule: 3-hydroxyisobutyrate dehydrogenase; PDBTitle: structure of hydroxyisobutyrate dehydrogenase from thermus2 thermophilus hb8
11	c5g6sD_	 Alignment		64.6	16	PDB header: oxidoreductase Chain: D: PDB Molecule: imine reductase; PDBTitle: imine reductase from aspergillus oryzae in complex with nadp(h) and2 (r)-rasagiline

12	c5je8A_	Alignment		63.6	18	PDB header: oxidoreductase Chain: A: PDB Molecule: 3-hydroxyisobutyrate dehydrogenase; PDBTitle: the crystal structure of bacillus cereus 3-hydroxyisobutyrate2 dehydrogenase in complex with nad
13	c4qbjB_	Alignment		61.3	16	PDB header: oxidoreductase Chain: B: PDB Molecule: 6-phosphogluconate dehydrogenase nad-binding; PDBTitle: crystal structure of nad-binding 6-phosphogluconate dehydrogenase from2 dyadobacter fermentans
14	c3zhhC_	Alignment		56.1	22	PDB header: oxidoreductase Chain: C: PDB Molecule: r-imine reductase; PDBTitle: r-imine reductase from streptomyces kanamyceticus in2 complex with nadp.
15	c4d3fB_	Alignment		54.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: imine reductase; PDBTitle: bcsired from bacillus cereus in complex with nadph
16	c4d3sA_	Alignment		52.5	11	PDB header: oxidoreductase Chain: A: PDB Molecule: imine reductase; PDBTitle: imine reductase from nocardioptis halophila
17	c4oqyA_	Alignment		52.5	22	PDB header: oxidoreductase Chain: A: PDB Molecule: (s)-imine reductase; PDBTitle: streptomyces sp. gf3546 imine reductase
18	c3pduF_	Alignment		45.5	35	PDB header: oxidoreductase Chain: F: PDB Molecule: 3-hydroxyisobutyrate dehydrogenase family protein; PDBTitle: crystal structure of gamma-hydroxybutyrate dehydrogenase from2 geobacter sulfurreducens in complex with nadp+
19	c3l6dB_	Alignment		41.8	16	PDB header: oxidoreductase Chain: B: PDB Molecule: putative oxidoreductase; PDBTitle: crystal structure of putative oxidoreductase from pseudomonas putida2 kt2440
20	c6grlA_	Alignment		38.9	23	PDB header: oxidoreductase Chain: A: PDB Molecule: beta-hydroxyacid dehydrogenase, 3-hydroxyisobutyrate PDBTitle: structure of imine reductase (apo form) at 1.6 a resolution from2 saccharomonospora xinjiangensis
21	c4ezbA_	Alignment	not modelled	36.2	27	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized conserved protein; PDBTitle: crystal structure of the conserved hypothetical protein from2 sinorhizobium meliloti 1021
22	c5u5gC_	Alignment	not modelled	35.5	16	PDB header: oxidoreductase Chain: C: PDB Molecule: 6-phosphogluconate dehydrogenase; PDBTitle: psf3 in complex with nadp+ and 2-opp
23	c1vpdA_	Alignment	not modelled	33.5	27	PDB header: oxidoreductase Chain: A: PDB Molecule: tartronate semialdehyde reductase; PDBTitle: x-ray crystal structure of tartronate semialdehyde reductase2 [salmonella typhimurium lt2]
24	c5a9tA_	Alignment	not modelled	32.5	18	PDB header: oxidoreductase Chain: A: PDB Molecule: putative dehydrogenase; PDBTitle: imine reductase from amycolatopsis orientalis in complex2 with (r)-methyltetrahydroisoquinoline
25	c5ocmA_	Alignment	not modelled	32.5	18	PDB header: oxidoreductase Chain: A: PDB Molecule: nad_gly3p_dh, nad-dependent glycerol-3-phosphate PDBTitle: imine reductase from streptosporangium roseum in complex with nadp+2 and 2,2,2-trifluoroacetophenone hydrate
26	d1t6la2	Alignment	not modelled	30.7	50	Fold: DNA clamp Superfamily: DNA clamp Family: DNA polymerase processivity factor
27	c3pefA_	Alignment	not modelled	27.6	29	PDB header: oxidoreductase Chain: A: PDB Molecule: 6-phosphogluconate dehydrogenase, nad-binding; PDBTitle: crystal structure of gamma-hydroxybutyrate dehydrogenase from2 geobacter metallireducens in complex with nadp+
						PDB header: oxidoreductase

28	c4oqzA_	Alignment	not modelled	26.7	18	Chain: A; PDB Molecule: putative oxidoreductase yfjr; PDBTitle: streptomyces aurantiacus imine reductase
29	c6idxC_	Alignment	not modelled	24.8	45	PDB header: cell adhesion Chain: C; PDB Molecule: adhesion g protein-coupled receptor b1; PDBTitle: crystal structure of bai1/elmo2 complex
30	c2kvhA_	Alignment	not modelled	19.1	60	PDB header: transcription Chain: A; PDB Molecule: zinc finger and btb domain-containing protein 32; PDBTitle: structure of the three-cys2his2 domain of mouse testis zinc2 finger protein
31	c1yypA_	Alignment	not modelled	18.2	50	PDB header: replication/transferase Chain: A; PDB Molecule: dna polymerase processivity factor; PDBTitle: crystal structure of cytomegalovirus ul44 bound to c-terminal peptide2 from cmv ul54
32	c5urnB_	Alignment	not modelled	16.8	67	PDB header: transcription Chain: B; PDB Molecule: transcription factor p65; PDBTitle: nmr structure of the complex between the ph domain of the tfb1 subunit2 from tfiih and the transactivation domain 1 of p65
33	c2n22B_	Alignment	not modelled	16.5	67	PDB header: transcription Chain: B; PDB Molecule: transcription factor p65; PDBTitle: nmr structure of the complex between the ph domain of the tfb1 subunit2 from tfiih and the transactivation domain of p65
34	c3ckyA_	Alignment	not modelled	14.3	36	PDB header: oxidoreductase Chain: A; PDB Molecule: 2-hydroxymethyl glutarate dehydrogenase; PDBTitle: structural and kinetic properties of a beta-hydroxyacid dehydrogenase2 involved in nicotinate fermentation
35	c2jynA_	Alignment	not modelled	12.8	15	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: upf0368 protein ypl225w; PDBTitle: a novel solution nmr structure of protein yst0336 from2 saccharomyces cerevisiae. northeast structural genomics3 consortium target yt51/ontario centre for structural4 proteomics target yst0336
36	c1xkmC_	Alignment	not modelled	11.6	67	PDB header: antibiotic Chain: C; PDB Molecule: distinctin chain a; PDBTitle: nmr structure of antimicrobial peptide distinctin in water
37	c1xkmA_	Alignment	not modelled	11.6	67	PDB header: antibiotic Chain: A; PDB Molecule: distinctin chain a; PDBTitle: nmr structure of antimicrobial peptide distinctin in water
38	c3w6uA_	Alignment	not modelled	10.3	28	PDB header: oxidoreductase Chain: A; PDB Molecule: 6-phosphogluconate dehydrogenase, nad-binding protein; PDBTitle: crystal solution nmr structure of nadp bound l-serine 3-dehydrogenase from2 hyperthermophilic archaeon pyrobaculum calidifontis
39	c1a10B_	Alignment	not modelled	9.0	50	PDB header: virus Chain: B; PDB Molecule: scaffolding protein gpb; PDBTitle: procapsid of bacteriophage phix174
40	c2uyyD_	Alignment	not modelled	7.9	29	PDB header: cytokine Chain: D; PDB Molecule: n-pac protein; PDBTitle: structure of the cytokine-like nuclear factor n-pac
41	c5cqyB_	Alignment	not modelled	7.0	21	PDB header: unknown function Chain: B; PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of uncharacterized protein q8dvw2 from streptococcus2 agalactiae
42	c5cofA_	Alignment	not modelled	6.7	21	PDB header: unknown function Chain: A; PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of uncharacterised protein q1r1x2 from escherichia2 coli uti89
43	c3g0oA_	Alignment	not modelled	6.5	29	PDB header: oxidoreductase Chain: A; PDB Molecule: 3-hydroxyisobutyrate dehydrogenase; PDBTitle: crystal structure of 3-hydroxyisobutyrate dehydrogenase2 (ygbj) from salmonella typhimurium