

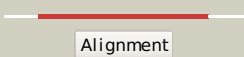

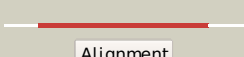


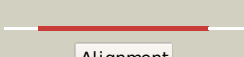

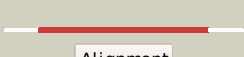













#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3ib7A_	 Alignment		100.0	29	PDB header: hydrolase Chain: A: PDB Molecule: icc protein; PDBTitle: crystal structure of full length rv0805
2	d3d03a1	 Alignment		100.0	21	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: GpdQ-like
3	c2hy1A_	 Alignment		100.0	31	PDB header: hydrolase Chain: A: PDB Molecule: rv0805; PDBTitle: crystal structure of rv0805
4	d2hy1a1	 Alignment		100.0	31	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: GpdQ-like
5	d2nxf1	 Alignment		100.0	20	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: ADPRibase-Mn-like
6	c2xmoB_	 Alignment		100.0	21	PDB header: hydrolase Chain: B: PDB Molecule: lmo2642 protein; PDBTitle: the crystal structure of lmo2642
7	c3av0A_	 Alignment		100.0	13	PDB header: recombination Chain: A: PDB Molecule: dna double-strand break repair protein mre11; PDBTitle: crystal structure of mre11-rad50 bound to atp s
8	c3auzA_	 Alignment		100.0	12	PDB header: recombination Chain: A: PDB Molecule: dna double-strand break repair protein mre11; PDBTitle: crystal structure of mre11 with manganese
9	c3tliC_	 Alignment		100.0	17	PDB header: hydrolase Chain: C: PDB Molecule: double-strand break repair protein mre11a; PDBTitle: crystal structure of human mre11: understanding tumorigenic mutations
10	c2q8uA_	 Alignment		99.9	17	PDB header: hydrolase Chain: A: PDB Molecule: exonuclease, putative; PDBTitle: crystal structure of mre11 from thermotoga maritima msb8 (tm1635) at 2.20 a resolution
11	c3qg5D_	 Alignment		99.9	16	PDB header: hydrolase Chain: D: PDB Molecule: mre11; PDBTitle: the mre11:rad50 complex forms an atp dependent molecular clamp in dna2 double-strand break repair

12	dlii7a_	Alignment		99.9	18	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: DNA double-strand break repair nuclease
13	dlutea_	Alignment		99.9	17	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Purple acid phosphatase-like
14	d2yvta1	Alignment		99.9	9	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: TT1561-like
15	c3qfnA_	Alignment		99.9	19	PDB header: hydrolase Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of streptococcal asymmetric ap4a hydrolase and2 phosphodiesterase spr1479/saph in complex with inorganic phosphate
16	d1uf3a_	Alignment		99.9	13	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: TT1561-like
17	c1qhwA_	Alignment		99.9	17	PDB header: hydrolase Chain: A: PDB Molecule: protein (purple acid phosphatase); PDBTitle: purple acid phosphatase from rat bone
18	d1qhwa_	Alignment		99.9	17	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Purple acid phosphatase-like
19	d1xwz2	Alignment		99.9	15	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Purple acid phosphatase-like
20	d2qfra2	Alignment		99.9	17	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Purple acid phosphatase-like
21	c3rl4A_	Alignment	not modelled	99.9	19	PDB header: hydrolase Chain: A: PDB Molecule: metallophosphoesterase mpped2; PDBTitle: rat metallophosphodiesterase mpped2 g252h mutant
22	c1kbpB_	Alignment	not modelled	99.9	16	PDB header: hydrolase (phosphoric monoester) Chain: B: PDB Molecule: purple acid phosphatase; PDBTitle: kidney bean purple acid phosphatase
23	d1s3la_	Alignment	not modelled	99.9	16	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: YfcE-like
24	c1s3mA_	Alignment	not modelled	99.9	16	PDB header: phosphodiesterase Chain: A: PDB Molecule: hypothetical protein mj0936; PDBTitle: structural and functional characterization of a novel2 archaeal phosphodiesterase
25	c1xzwB_	Alignment	not modelled	99.9	15	PDB header: hydrolase Chain: B: PDB Molecule: purple acid phosphatase; PDBTitle: sweet potato purple acid phosphatase/phosphate complex
26	d2a22a1	Alignment	not modelled	99.9	19	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: YfcE-like
27	d1z2wa1	Alignment	not modelled	99.9	15	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: YfcE-like
28	d1nnwa_	Alignment	not modelled	99.8	10	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Phosphoesterase-related
29	c1su1A_	Alignment	not modelled	99.8	20	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein yfce;

29	c1su1A_	Alignment	not modelled	99.8	20	PDBTitle: structural and biochemical characterization of yfce, a2 phosphoesterase from e. coli
30	d1su1a_	Alignment	not modelled	99.8	20	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Yfce-like
31	c3rqzC_	Alignment	not modelled	99.8	21	PDB header: hydrolase Chain: C: PDB Molecule: metallophosphoesterase; PDBTitle: crystal structure of metallophosphoesterase from sphaeobacter2 thermophilus
32	d3ck2a1	Alignment	not modelled	99.8	19	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Yfce-like
33	c2kknA_	Alignment	not modelled	99.8	21	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: solution nmr structure of themotoga maritima protein tm1076:2 northeast structural genomics consortium target vt57
34	d1xm7a_	Alignment	not modelled	99.6	16	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Hypothetical protein aq 1666
35	d1usha2	Alignment	not modelled	99.6	10	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: 5'-nucleotidase (syn. UDP-sugar hydrolase), N-terminal domain
36	c1oidA_	Alignment	not modelled	99.6	12	PDB header: hydrolase Chain: A: PDB Molecule: protein usha; PDBTitle: 5'-nucleotidase (e. coli) with an engineered disulfide2 bridge (s228c, p513c)
37	d2z1aa2	Alignment	not modelled	99.4	15	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: 5'-nucleotidase (syn. UDP-sugar hydrolase), N-terminal domain
38	c3qfkA_	Alignment	not modelled	99.4	14	PDB header: hydrolase Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: 2.05 angstrom crystal structure of putative 5'-nucleotidase from2 staphylococcus aureus in complex with alpha-ketoglutarate
39	c2z1aA_	Alignment	not modelled	99.3	15	PDB header: hydrolase Chain: A: PDB Molecule: 5'-nucleotidase; PDBTitle: crystal structure of 5'-nucleotidase precursor from thermus2 thermophilus hb8
40	c3ivdA_	Alignment	not modelled	99.3	15	PDB header: hydrolase Chain: A: PDB Molecule: nucleotidase; PDBTitle: putative 5'-nucleotidase (c4898) from escherichia coli in2 complex with uridine
41	d1g5ba_	Alignment	not modelled	99.2	14	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Protein serine/threonine phosphatase
42	c2wdfA_	Alignment	not modelled	99.1	17	PDB header: hydrolase Chain: A: PDB Molecule: sulfur oxidation protein soxb; PDBTitle: termus thermophilus sulfate thiohydrolase soxb
43	d1t71a_	Alignment	not modelled	99.1	12	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: DR1281-like
44	c3gveB_	Alignment	not modelled	99.1	16	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: yfkn protein; PDBTitle: crystal structure of calcineurin-like phosphoesterase yfkn from2 bacillus subtilis
45	c3zu0A_	Alignment	not modelled	99.0	15	PDB header: hydrolase Chain: A: PDB Molecule: nad nucleotidase; PDBTitle: structure of haemophilus influenzae nad nucleotidase (nadm)
46	d3c9fa2	Alignment	not modelled	99.0	14	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: 5'-nucleotidase (syn. UDP-sugar hydrolase), N-terminal domain
47	c3jyfb_	Alignment	not modelled	98.9	17	PDB header: hydrolase Chain: B: PDB Molecule: 2',3'-cyclic nucleotide 2'-phosphodiesterase/3'- PDBTitle: the crystal structure of a 2,3-cyclic nucleotide 2-2 phosphodiesterase/3-nucleotidase bifunctional periplasmic precursor3 protein from klebsiella pneumoniae subsp. pneumoniae mgh 78578
48	d2z06a1	Alignment	not modelled	98.7	15	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: TTHA0625-like
49	c3c9fb_	Alignment	not modelled	98.6	13	PDB header: hydrolase Chain: B: PDB Molecule: 5'-nucleotidase; PDBTitle: crystal structure of 5'-nucleotidase from candida albicans sc5314
50	d1t70a_	Alignment	not modelled	98.3	14	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: DR1281-like
51	c2qjcA_	Alignment	not modelled	98.0	21	PDB header: hydrolase Chain: A: PDB Molecule: diadenosine tetraphosphatase, putative; PDBTitle: crystal structure of a putative diadenosine tetraphosphatase
52	c2dfjA_	Alignment	not modelled	97.4	19	PDB header: hydrolase Chain: A: PDB Molecule: diadenosinetetraphosphatase; PDBTitle: crystal structure of the diadenosine tetraphosphate2 hydrolase from shigella flexneri 2a
53	c3e0jG_	Alignment	not modelled	97.2	20	PDB header: transferase Chain: G: PDB Molecule: dna polymerase subunit delta-2; PDBTitle: x-ray structure of the complex of regulatory subunits of2 human dna polymerase delta
54	c2zbmA_	Alignment	not modelled	97.1	14	PDB header: hydrolase Chain: A: PDB Molecule: protein-tyrosine-phosphatase; PDBTitle: crystal structure of i115m mutant cold-active protein2

						tyrosine phosphatase
55	d1jk7a_	Alignment	not modelled	96.9	16	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Protein serine/threonine phosphatase
56	d3c5wc1	Alignment	not modelled	96.8	14	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Protein serine/threonine phosphatase
57	d1s70a_	Alignment	not modelled	96.6	16	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Protein serine/threonine phosphatase
58	c2jogA_	Alignment	not modelled	96.4	14	PDB header: hydrolase Chain: A: PDB Molecule: calmodulin-dependent calcineurin a subunit alpha PDBTitle: structure of the calcineurin-nfat complex
59	d1s95a_	Alignment	not modelled	96.3	16	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Protein serine/threonine phosphatase
60	c3icfB_	Alignment	not modelled	96.1	16	PDB header: hydrolase Chain: B: PDB Molecule: serine/threonine-protein phosphatase t PDBTitle: structure of protein serine/threonine phosphatase from saccharomyces2 cerevisiae with similarity to human phosphatase pp5
61	c1auiA_	Alignment	not modelled	95.8	14	PDB header: hydrolase Chain: A: PDB Molecule: serine/threonine phosphatase 2b; PDBTitle: human calcineurin heterodimer
62	d1auiA_	Alignment	not modelled	95.8	14	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Protein serine/threonine phosphatase
63	c2p6bC_	Alignment	not modelled	95.6	14	PDB header: hydrolase/hydrolase regulator Chain: C: PDB Molecule: calmodulin-dependent calcineurin a subunit alpha PDBTitle: crystal structure of human calcineurin in complex with2 pvit peptide
64	d2p6ba1	Alignment	not modelled	95.6	14	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: Protein serine/threonine phosphatase
65	c1wao4_	Alignment	not modelled	94.6	14	PDB header: hydrolase Chain: 4: PDB Molecule: serine/threonine protein phosphatase 5; PDBTitle: pp5 structure
66	c3floG_	Alignment	not modelled	91.5	9	PDB header: transferase Chain: G: PDB Molecule: dna polymerase alpha subunit b; PDBTitle: crystal structure of the carboxyl-terminal domain of yeast2 dna polymerase alpha in complex with its b subunit
67	c3lmaC_	Alignment	not modelled	41.3	20	PDB header: membrane protein Chain: C: PDB Molecule: stage v sporulation protein ad (spovad); PDBTitle: crystal structure of the stage v sporulation protein ad2 (spovad) from bacillus licheniformis. northeast structural3 genomics consortium target bir6.
68	d1zhxa1	Alignment	not modelled	27.6	16	Fold: Oxysterol-binding protein-like Superfamily: Oxysterol-binding protein-like Family: Oxysterol-binding protein
69	d1gg4a1	Alignment	not modelled	20.4	16	Fold: MurD-like peptide ligases, peptide-binding domain Superfamily: MurD-like peptide ligases, peptide-binding domain Family: MurCDEF C-terminal domain
70	d1s1da_	Alignment	not modelled	17.8	40	Fold: 5-bladed beta-propeller Superfamily: Apyrase Family: Apyrase
71	c3menC_	Alignment	not modelled	14.7	16	PDB header: hydrolase Chain: C: PDB Molecule: acetyl polyamine aminohydrolase; PDBTitle: crystal structure of acetyl polyamine aminohydrolase from burkholderia2 pseudomallei, iodide soak
72	c3q9cF_	Alignment	not modelled	8.6	15	PDB header: hydrolase Chain: F: PDB Molecule: acetyl polyamine amido hydrolase; PDBTitle: crystal structure of h159a apah complexed with n8-acetylspermidine
73	c2gx8B_	Alignment	not modelled	8.4	12	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: nif3-related protein; PDBTitle: the crystal stucture of bacillus cereus protein related to nif3
74	c3ew8A_	Alignment	not modelled	7.9	8	PDB header: hydrolase Chain: A: PDB Molecule: histone deacetylase 8; PDBTitle: crystal structure analysis of human hdac8 d101l variant
75	d1heya_	Alignment	not modelled	7.7	10	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
76	c3ngoA_	Alignment	not modelled	7.7	11	PDB header: hydrolase/dna Chain: A: PDB Molecule: ccr4-not transcription complex subunit 6-like; PDBTitle: crystal structure of the human cnot6l nuclease domain in complex with2 poly(a) dna
77	d2gx8a1	Alignment	not modelled	7.1	12	Fold: NIF3 (NGG1p interacting factor 3)-like Superfamily: NIF3 (NGG1p interacting factor 3)-like Family: NIF3 (NGG1p interacting factor 3)-like
78	c2y1hA_	Alignment	not modelled	7.1	19	PDB header: hydrolase Chain: A: PDB Molecule: putative deoxyri bonuclease tatdn3; PDBTitle: crystal structure of the human tatd-domain protein 3 (tatdn3)
79	c3o0dF_	Alignment	not modelled	7.0	30	PDB header: hydrolase Chain: F: PDB Molecule: triacylglycerol lipase; PDBTitle: crystal structure of lip2 lipase from yarrowia lipolytica at 1.7 a2 resolution
80	d1dz3a_	Alignment	not modelled	6.7	9	Fold: Flavodoxin-like Superfamily: CheY-like

					Family: CheY-related
81	c3h02F_	Alignment	not modelled	5.9	11 PDB header: lyase Chain: F: PDB Molecule: naphthoate synthase; PDBTitle: 2.15 angstrom resolution crystal structure of naphthoate synthase from2 salmonella typhimurium.
82	c2nydB_	Alignment	not modelled	5.6	18 PDB header: unknown function Chain: B: PDB Molecule: upf0135 protein sa1388; PDBTitle: crystal structure of staphylococcus aureus hypothetical protein sa1388
83	c3g7nA_	Alignment	not modelled	5.4	30 PDB header: hydrolase Chain: A: PDB Molecule: lipase; PDBTitle: crystal structure of a triacylglycerol lipase from2 penicillium expansum at 1.3
84	d1tiiaa_	Alignment	not modelled	5.2	35 Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Fungal lipases
85	d3tgla_	Alignment	not modelled	5.1	20 Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Fungal lipases
86	c3rsiA_	Alignment	not modelled	5.1	10 PDB header: isomerase Chain: A: PDB Molecule: putative enoyl-coa hydratase/isomerase; PDBTitle: the structure of a putative enoyl-coa hydratase/isomerase from2 mycobacterium abscessus atcc 19977 / dsm 44196