

Phyre2

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Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d2gmwa1	 Alignment		100.0	100	Fold: HAD-like Superfamily: HAD-like Family: Histidinol phosphatase-like
2	c3esqA	 Alignment		100.0	100	PDB header: hydrolase Chain: A: PDB Molecule: d,d-heptose 1,7-bisphosphate phosphatase; PDBTitle: crystal structure of calcium-bound d,d-heptose 1.7-2 bisphosphate phosphatase from e. coli
3	d2o2xa1	 Alignment		100.0	34	Fold: HAD-like Superfamily: HAD-like Family: Histidinol phosphatase-like
4	c3l8hC	 Alignment		100.0	29	PDB header: hydrolase Chain: C: PDB Molecule: putative haloacid dehalogenase-like hydrolase; PDBTitle: crystal structure of d,d-heptose 1.7-bisphosphate phosphatase from b.2 bronchiseptica complexed with magnesium and phosphate
5	c3iruA	 Alignment		100.0	23	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: phosphonoacetaldehyde hydrolase like protein; PDBTitle: crystal structure of phosphonoacetaldehyde hydrolase like protein from2 oleispira antarctica
6	d1swva	 Alignment		100.0	22	Fold: HAD-like Superfamily: HAD-like Family: Phosphonoacetaldehyde hydrolase-like
7	c3dv9A	 Alignment		100.0	23	PDB header: isomerase Chain: A: PDB Molecule: beta-phosphoglucomutase; PDBTitle: putative beta-phosphoglucomutase from bacteroides vulgatus.
8	d2hsza1	 Alignment		100.0	23	Fold: HAD-like Superfamily: HAD-like Family: beta-Phosphoglucomutase-like
9	c2odaB	 Alignment		100.0	15	PDB header: protein binding Chain: B: PDB Molecule: hypothetical protein pspto_2114; PDBTitle: crystal structure of pspto_2114
10	c3mc1A	 Alignment		100.0	19	PDB header: hydrolase Chain: A: PDB Molecule: predicted phosphatase, had family; PDBTitle: crystal structure of a predicted phosphatase from2 clostridium acetobutylicum
11	c3s6jC	 Alignment		100.0	19	PDB header: hydrolase Chain: C: PDB Molecule: hydrolase, haloacid dehalogenase-like family; PDBTitle: the crystal structure of a hydrolase from pseudomonas syringae

12	c3d6jA_	Alignment		100.0	22	PDB header: hydrolase Chain: A: PDB Molecule: putative haloacid dehalogenase-like hydrolase; PDBTitle: crystal structure of putative haloacid dehalogenase-like hydrolase2 from bacteroides fragilis
13	c2no5B_	Alignment		100.0	19	PDB header: hydrolase Chain: B: PDB Molecule: (s)-2-haloacid dehalogenase iva; PDBTitle: crystal structure analysis of a dehalogenase with intermediate complex
14	c3nuqA_	Alignment		100.0	15	PDB header: hydrolase Chain: A: PDB Molecule: putative nucleotide phosphatase; PDBTitle: structure of a putative nucleotide phosphatase from saccharomyces2 cerevisiae
15	d1te2a_	Alignment		100.0	20	Fold: HAD-like Superfamily: HAD-like Family: beta-Phosphoglucomutase-like
16	d2fdra1	Alignment		99.9	22	Fold: HAD-like Superfamily: HAD-like Family: beta-Phosphoglucomutase-like
17	d2ah5a1	Alignment		99.9	19	Fold: HAD-like Superfamily: HAD-like Family: beta-Phosphoglucomutase-like
18	c2yy6B_	Alignment		99.9	21	PDB header: hydrolase Chain: B: PDB Molecule: phosphoglycolate phosphatase; PDBTitle: crystal structure of the phosphoglycolate phosphatase from aquifex2 aeolicus vf5
19	c2hi0B_	Alignment		99.9	22	PDB header: hydrolase Chain: B: PDB Molecule: putative phosphoglycolate phosphatase; PDBTitle: crystal structure of putative phosphoglycolate phosphatase2 (yp_619066.1) from lactobacillus delbrueckii subsp. bulgaricus atcc3 baa-365 at 1.51 a resolution
20	d1zs9a1	Alignment		99.9	22	Fold: HAD-like Superfamily: HAD-like Family: Enolase-phosphatase E1
21	d1zrna_	Alignment	not modelled	99.9	24	Fold: HAD-like Superfamily: HAD-like Family: HAD-related
22	c3m9IA_	Alignment	not modelled	99.9	22	PDB header: hydrolase Chain: A: PDB Molecule: hydrolase, haloacid dehalogenase-like family; PDBTitle: crystal structure of probable had family hydrolase from2 pseudomonas fluorescens pf-5
23	d2gfha1	Alignment	not modelled	99.9	24	Fold: HAD-like Superfamily: HAD-like Family: beta-Phosphoglucomutase-like
24	c2pibA_	Alignment	not modelled	99.9	20	PDB header: hydrolase Chain: A: PDB Molecule: phosphorylated carbohydrates phosphatase tm_1254; PDBTitle: crystal structure of putative beta-phosphoglucomutase from2 thermotoga maritima
25	c2ho4A_	Alignment	not modelled	99.9	17	PDB header: hydrolase Chain: A: PDB Molecule: haloacid dehalogenase-like hydrolase domain PDBTitle: crystal structure of protein from mouse mm.236127
26	d2fpwa1	Alignment	not modelled	99.9	29	Fold: HAD-like Superfamily: HAD-like Family: Histidinol phosphatase-like
27	c2hoqA_	Alignment	not modelled	99.9	25	PDB header: hydrolase Chain: A: PDB Molecule: putative had-hydrolase ph1655; PDBTitle: crystal structure of the probable haloacid dehalogenase (ph1655) from2 pyrococcus horikoshii ot3
28	c2om6A_	Alignment	not modelled	99.9	22	PDB header: hydrolase Chain: A: PDB Molecule: probable phosphoserine phosphatase; PDBTitle: hypothetical protein (probable phosphoserine phosph (ph0253) from2 pyrococcus horikoshii ot3

54	d1zd3a1	Alignment	not modelled	99.9	21	Superfamily: HAD-like Family: YihX-like
55	d1qyia	Alignment	not modelled	99.9	22	Fold: HAD-like Superfamily: HAD-like Family: Hypothetical protein MW1667 (SA1546)
56	d1wvia	Alignment	not modelled	99.9	22	Fold: HAD-like Superfamily: HAD-like Family: NagD-like
57	c3cnhA	Alignment	not modelled	99.9	14	PDB header: hydrolase Chain: A: PDB Molecule: hydrolase family protein; PDBTitle: crystal structure of predicted hydrolase of haloacid dehalogenase-like2 superfamily (np_295428.1) from deinococcus radiodurans at 1.66 a3 resolution
58	c3kd3A	Alignment	not modelled	99.9	17	PDB header: unknown function Chain: A: PDB Molecule: phosphoserine phosphohydrolase-like protein; PDBTitle: crystal structure of a phosphoserine phosphohydrolase-like protein2 from francisella tularensis subsp. tularensis schu s4
59	d1o08a	Alignment	not modelled	99.9	17	Fold: HAD-like Superfamily: HAD-like Family: beta-Phosphoglucomutase-like
60	d1yv9a1	Alignment	not modelled	99.9	21	Fold: HAD-like Superfamily: HAD-like Family: NagD-like
61	d1ydfa1	Alignment	not modelled	99.9	23	Fold: HAD-like Superfamily: HAD-like Family: NagD-like
62	c3k1zA	Alignment	not modelled	99.9	23	PDB header: hydrolase Chain: A: PDB Molecule: haloacid dehalogenase-like hydrolase domain-containing PDBTitle: crystal structure of human haloacid dehalogenase-like hydrolase domain2 containing 3 (hdhd3)
63	c2g80C	Alignment	not modelled	99.9	11	PDB header: hydrolase Chain: C: PDB Molecule: protein utr4; PDBTitle: crystal structure of utr4 protein (unknown transcript 4 protein)2 (yel038w) from saccharomyces cerevisiae at 2.28 a resolution
64	c3ed5A	Alignment	not modelled	99.9	19	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: yfnb; PDBTitle: the crystal structure of yfnb from bacillus subtilis subsp. subtilis2 str. 168
65	c2i6xA	Alignment	not modelled	99.9	12	PDB header: hydrolase Chain: A: PDB Molecule: hydrolase, haloacid dehalogenase-like family; PDBTitle: the structure of a predicted had-like family hydrolase from2 porphyromonas gingivalis.
66	c3nasA	Alignment	not modelled	99.9	22	PDB header: isomerase Chain: A: PDB Molecule: beta-phosphoglucomutase; PDBTitle: the crystal structure of beta-phosphoglucomutase from bacillus2 subtilis
67	c1zjjA	Alignment	not modelled	99.9	24	PDB header: hydrolase Chain: A: PDB Molecule: hypothetical protein ph1952; PDBTitle: crystal structure of hypothetical protein ph1952 from pyrococcus2 horikoshii ot3
68	c3kzxA	Alignment	not modelled	99.8	24	PDB header: hydrolase Chain: A: PDB Molecule: had-superfamily hydrolase, subfamily ia, variant 1; PDBTitle: crystal structure of a had-superfamily hydrolase from ehrlichia2 chaffeensis at 1.9a resolution
69	c2p11A	Alignment	not modelled	99.8	16	PDB header: hydrolase Chain: A: PDB Molecule: hypothetical protein; PDBTitle: crystal structure of a putative haloacid dehalogenase-like hydrolase2 (bx_e_b1342) from burkholderia xenovorans lb400 at 2.20 a resolution
70	d1vj5a1	Alignment	not modelled	99.8	27	Fold: HAD-like Superfamily: HAD-like Family: phosphatase domain of polynucleotide kinase
71	c3kc2A	Alignment	not modelled	99.8	22	PDB header: hydrolase Chain: A: PDB Molecule: uncharacterized protein ykr070w; PDBTitle: crystal structure of mitochondrial had-like phosphatase from2 saccharomyces cerevisiae
72	d1nlna	Alignment	not modelled	99.8	14	Fold: HAD-like Superfamily: HAD-like Family: Phosphoserine phosphatase
73	c2hx1D	Alignment	not modelled	99.8	17	PDB header: hydrolase Chain: D: PDB Molecule: predicted sugar phosphatases of the had PDBTitle: crystal structure of possible sugar phosphatase, had2 superfamily (zp_00311070.1) from cytophaga hutchinsonii3 atcc 33406 at 2.10 a resolution
74	d2fi1a1	Alignment	not modelled	99.8	20	Fold: HAD-like Superfamily: HAD-like Family: Phosphonoacetaldehyde hydrolase-like
75	d1j97a	Alignment	not modelled	99.8	20	Fold: HAD-like Superfamily: HAD-like Family: Phosphoserine phosphatase
76	c3zvmA	Alignment	not modelled	99.8	28	PDB header: hydrolase/transferase/dna Chain: A: PDB Molecule: bifunctional polynucleotide phosphatase/kinase; PDBTitle: the structural basis for substrate recognition by mammalian2 polynucleotide kinase 3' phosphatase
77	d2feaa1	Alignment	not modelled	99.8	15	Fold: HAD-like Superfamily: HAD-like Family: MtnX-like
78	d2b0ca1	Alignment	not modelled	99.8	15	Fold: HAD-like Superfamily: HAD-like

						Family:YihX-like
79	c3m1yA	Alignment	not modelled	99.8	16	PDB header: hydrolase Chain: A: PDB Molecule: phosphoserine phosphatase (serb); PDBTitle: crystal structure of a phosphoserine phosphatase (serb) from2 helicobacter pylori
80	c1yj5B	Alignment	not modelled	99.8	27	PDB header: transferase Chain: B: PDB Molecule: 5' polynucleotide kinase-3' phosphatase catalytic domain; PDBTitle: molecular architecture of mammalian polynucleotide kinase, a dna2 repair enzyme
81	c2zg6A	Alignment	not modelled	99.8	22	PDB header: hydrolase Chain: A: PDB Molecule: putative uncharacterized protein st2620; PDBTitle: crystal structure of hypothetical protein; probable 2-2 haloalkanoic acid dehalogenase from sulfolobus tokodaii
82	c2pr7A	Alignment	not modelled	99.7	17	PDB header: hydrolase Chain: A: PDB Molecule: haloacid dehalogenase/epoxide hydrolase family; PDBTitle: crystal structure of uncharacterized protein (np_599989.1) from2 corynebacterium glutamicum atcc 13032 kitasato at 1.44 a resolution
83	d1rkua	Alignment	not modelled	99.6	12	Fold: HAD-like Superfamily: HAD-like Family: Homoserine kinase ThrH
84	c3mn1B	Alignment	not modelled	99.6	17	PDB header: hydrolase Chain: B: PDB Molecule: probable yrbi family phosphatase; PDBTitle: crystal structure of probable yrbi family phosphatase from pseudomonas2 syringae pv.phaseolica 1448a
85	d1k1ea	Alignment	not modelled	99.5	16	Fold: HAD-like Superfamily: HAD-like Family: Probable phosphatase Yrbl
86	d1wr8a	Alignment	not modelled	99.5	16	Fold: HAD-like Superfamily: HAD-like Family: Predicted hydrolases Cof
87	c3e8mD	Alignment	not modelled	99.5	14	PDB header: transferase Chain: D: PDB Molecule: acylneuramate cytidyltransferase; PDBTitle: structure-function analysis of 2-keto-3-deoxy-d-glycero-d-galacto-2 nononate-9-phosphate (kdn) phosphatase defines a new clad within the3 type c0 had subfamily
88	d1l6ra	Alignment	not modelled	99.5	10	Fold: HAD-like Superfamily: HAD-like Family: Predicted hydrolases Cof
89	c3n07B	Alignment	not modelled	99.5	17	PDB header: hydrolase Chain: B: PDB Molecule: 3-deoxy-d-manno-octulosonate 8-phosphate phosphatase; PDBTitle: structure of putative 3-deoxy-d-manno-octulosonate 8-phosphate2 phosphatase from vibrio cholerae
90	c2r8zC	Alignment	not modelled	99.5	18	PDB header: hydrolase Chain: C: PDB Molecule: 3-deoxy-d-manno-octulosonate 8-phosphate phosphatase; PDBTitle: crystal structure of yrbi phosphatase from escherichia coli in complex2 with a phosphate and a calcium ion
91	c3n1uA	Alignment	not modelled	99.5	19	PDB header: hydrolase Chain: A: PDB Molecule: hydrolase, had superfamily, subfamily iii a; PDBTitle: structure of putative had superfamily (subfamily iii a) hydrolase from2 legionella pneumophila
92	c3ewiB	Alignment	not modelled	99.5	13	PDB header: transferase Chain: B: PDB Molecule: n-acylneuramate cytidyltransferase; PDBTitle: structural analysis of the c-terminal domain of murine cmp-2 sialic acid synthetase
93	c2p9jH	Alignment	not modelled	99.5	17	PDB header: structural genomics, unknown function Chain: H: PDB Molecule: hypothetical protein aq2171; PDBTitle: crystal structure of aq2171 from aquifex aeolicus
94	c3mmzA	Alignment	not modelled	99.4	16	PDB header: hydrolase Chain: A: PDB Molecule: putative had family hydrolase; PDBTitle: crystal structure of putative had family hydrolase from streptomyces2 avermitilis ma-4680
95	c3p96A	Alignment	not modelled	99.3	20	PDB header: hydrolase Chain: A: PDB Molecule: phosphoserine phosphatase serb; PDBTitle: crystal structure of phosphoserine phosphatase serb from mycobacterium2 avium, native form
96	d1q92a	Alignment	not modelled	99.3	17	Fold: HAD-like Superfamily: HAD-like Family: 5'(3')-deoxyribonucleotidase (dNT-2)
97	c2qyhD	Alignment	not modelled	99.3	18	PDB header: structural genomics, unknown function Chain: D: PDB Molecule: hypothetical conserved protein, gk1056; PDBTitle: crystal structure of the hypothetical protein (gk1056) from2 geobacillus kaustophilus hta426
98	c2i7dB	Alignment	not modelled	99.3	14	PDB header: hydrolase Chain: B: PDB Molecule: 5'(3')-deoxyribonucleotidase, cytosolic type; PDBTitle: structure of human cytosolic deoxyribonucleotidase in2 complex with deoxyuridine, alf4 and mg2+
99	c3n28A	Alignment	not modelled	99.3	17	PDB header: hydrolase Chain: A: PDB Molecule: phosphoserine phosphatase; PDBTitle: crystal structure of probable phosphoserine phosphatase from vibrio2 cholerae, unliganded form
100	c3fzqA	Alignment	not modelled	99.2	16	PDB header: hydrolase Chain: A: PDB Molecule: putative hydrolase; PDBTitle: crystal structure of putative haloacid dehalogenase-like hydrolase2 (yp_001086940.1) from clostridium difficile 630 at 2.10 a resolution
101	c3niwA	Alignment	not modelled	99.2	15	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: haloacid dehalogenase-like hydrolase; PDBTitle: crystal structure of a haloacid dehalogenase-like hydrolase from2 bacteroides thetaiotaomicron
102	d1rkqa	Alignment	not modelled	99.1	25	Fold: HAD-like Superfamily: HAD-like

						Family: Predicted hydrolases Cof
103	d2b30a1	Alignment	not modelled	99.1	17	Fold: HAD-like Superfamily: HAD-like Family: Predicted hydrolases Cof
104	c3r4cA	Alignment	not modelled	99.1	20	PDB header: hydrolase Chain: A: PDB Molecule: haloacid dehalogenase-like hydrolase; PDBTitle: divergence of structure and function among phosphatases of the2 haloalkanoate (had) enzyme superfamily: analysis of bt1666 from3 bacteroides thetaiotaomicron
105	c3dnpA	Alignment	not modelled	99.1	18	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: stress response protein yhax; PDBTitle: crystal structure of stress response protein yhax from bacillus2 subtilis
106	c3daoB	Alignment	not modelled	99.1	18	PDB header: hydrolase Chain: B: PDB Molecule: putative phosphatse; PDBTitle: crystal structure of a putative phosphatase (eubrec_1417) from2 eubacterium rectale at 1.80 a resolution
107	c3l7yA	Alignment	not modelled	99.1	17	PDB header: hydrolase Chain: A: PDB Molecule: putative uncharacterized protein smu.1108c; PDBTitle: the crystal structure of smu.1108c from streptococcus mutans ua159
108	d1rlma	Alignment	not modelled	99.1	16	Fold: HAD-like Superfamily: HAD-like Family: Predicted hydrolases Cof
109	d1nf2a	Alignment	not modelled	99.0	14	Fold: HAD-like Superfamily: HAD-like Family: Predicted hydrolases Cof
110	d2rbka1	Alignment	not modelled	99.0	18	Fold: HAD-like Superfamily: HAD-like Family: Predicted hydrolases Cof
111	d1wzca1	Alignment	not modelled	99.0	20	Fold: HAD-like Superfamily: HAD-like Family: Predicted hydrolases Cof
112	d1xpja	Alignment	not modelled	98.9	20	Fold: HAD-like Superfamily: HAD-like Family: Hypothetical protein VC0232
113	c3fvvA	Alignment	not modelled	98.9	14	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: the crystal structure of the protein with unknown function from2 bordetella pertussis tohama i
114	d1nrwa	Alignment	not modelled	98.9	22	Fold: HAD-like Superfamily: HAD-like Family: Predicted hydrolases Cof
115	c2iyeC	Alignment	not modelled	98.9	30	PDB header: hydrolase Chain: C: PDB Molecule: copper-transporting atpase; PDBTitle: structure of catalytic cpx-atpase domain copb-b
116	d1xvia	Alignment	not modelled	98.8	12	Fold: HAD-like Superfamily: HAD-like Family: Predicted hydrolases Cof
117	c1xviA	Alignment	not modelled	98.8	12	PDB header: hydrolase Chain: A: PDB Molecule: putative mannosyl-3-phosphoglycerate phosphatase; PDBTitle: crystal structure of yedp, phosphatase-like domain protein2 from escherichia coli k12
118	c3pgvB	Alignment	not modelled	98.8	18	PDB header: hydrolase Chain: B: PDB Molecule: haloacid dehalogenase-like hydrolase; PDBTitle: crystal structure of a haloacid dehalogenase-like hydrolase2 (kpn_04322) from klebsiella pneumoniae subsp. pneumoniae mgh 78578 at3 2.39 a resolution
119	c3gygA	Alignment	not modelled	98.8	16	PDB header: hydrolase Chain: A: PDB Molecule: ntd biosynthesis operon putative hydrolase ntdb; PDBTitle: crystal structure of yhjk (haloacid dehalogenase-like hydrolase2 protein) from bacillus subtilis
120	d1z5ga1	Alignment	not modelled	98.7	17	Fold: HAD-like Superfamily: HAD-like Family: Class B acid phosphatase, AphA