

Phyre²

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Description	P0A7A2
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Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1h2ea_	Alignment		100.0	31	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Cofactor-dependent phosphoglycerate mutase
2	d1e58a_	Alignment		100.0	20	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Cofactor-dependent phosphoglycerate mutase
3	c3r7aA_	Alignment		100.0	27	PDB header: transferase Chain: A: PDB Molecule: phosphoglycerate mutase, putative; PDBTitle: crystal structure of phosphoglycerate mutase from bacillus anthracis2 str. sterne
4	c1yjxD_	Alignment		100.0	22	PDB header: isomerase, hydrolase Chain: D: PDB Molecule: phosphoglycerate mutase 1; PDBTitle: crystal structure of human b type phosphoglycerate mutase
5	c3eznB_	Alignment		100.0	23	PDB header: isomerase Chain: B: PDB Molecule: 2,3-bisphosphoglycerate-dependent phosphoglycerate mutase; PDBTitle: crystal structure of phosphoglyceromutase from burkholderia2 pseudomallei 1710b
6	c2a6pA_	Alignment		100.0	25	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: possible phosphoglycerate mutase gpm2; PDBTitle: structure solution to 2.2 angstrom and functional characterisation of the open reading frame rv3214 from mycobacterium tuberculosis
7	c3dcyA_	Alignment		100.0	31	PDB header: apoptosis regulator Chain: A: PDB Molecule: regulator protein; PDBTitle: crystal structure of tp53-induced glycolysis and apoptosis2 regulator protein from homo sapiens.
8	c3II4B_	Alignment		100.0	21	PDB header: hydrolase Chain: B: PDB Molecule: uncharacterized protein ykr043c; PDBTitle: structure of the h13a mutant of ykr043c in complex with fructose-1,6-2 bisphosphate
9	d1xq9a_	Alignment		100.0	22	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Cofactor-dependent phosphoglycerate mutase
10	d1qhfa_	Alignment		100.0	25	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Cofactor-dependent phosphoglycerate mutase
11	d1ria_	Alignment		100.0	24	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Cofactor-dependent phosphoglycerate mutase

12	c3f3kA	Alignment		100.0	21	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein ykr043c; PDBTitle: the structure of uncharacterized protein ykr043c from <i>saccharomyces2 cerevisiae</i> .
13	d1fzta	Alignment		100.0	23	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Cofactor-dependent phosphoglycerate mutase
14	d1bifa2	Alignment		100.0	22	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase, phosphatase domain
15	c3e9eB	Alignment		100.0	31	PDB header: hydrolase Chain: B: PDB Molecule: zgc:56074; PDBTitle: structure of full-length h11a mutant form of tigar from <i>danio rerio</i>
16	d2hhja1	Alignment		100.0	21	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Cofactor-dependent phosphoglycerate mutase
17	c2i1vB	Alignment		100.0	22	PDB header: transferase, hydrolase Chain: B: PDB Molecule: 6-phosphofructo-2-kinase/fructose-2,6- PDBTitle: crystal structure of pfkfb3 in complex with adp and2 fructose-2,6-bisphosphate
18	c3d8hB	Alignment		100.0	22	PDB header: isomerase Chain: B: PDB Molecule: glycolytic phosphoglycerate mutase; PDBTitle: crystal structure of phosphoglycerate mutase from <i>cryptosporidium2 parvum</i> , cgd7_4270
19	c1k6mA	Alignment		100.0	23	PDB header: transferase, hydrolase Chain: A: PDB Molecule: 6-phosphofructo-2-kinase/fructose-2,6- PDBTitle: crystal structure of human liver 6-phosphofructo-2-2 kinase/fructose-2,6-bisphosphatase
20	d3pgma	Alignment		100.0	24	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Cofactor-dependent phosphoglycerate mutase
21	c1bifA	Alignment	not modelled	100.0	23	PDB header: bifunctional enzyme Chain: A: PDB Molecule: 6-phosphofructo-2-kinase/ fructose-2,6-bisphosphatase; PDBTitle: 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase bifunctional enzyme complexed with atp-g-s and phosphate
22	d1k6ma2	Alignment	not modelled	100.0	23	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase, phosphatase domain
23	d1tipa	Alignment	not modelled	100.0	22	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase, phosphatase domain
24	c3hjgB	Alignment	not modelled	100.0	24	PDB header: hydrolase Chain: B: PDB Molecule: putative alpha-ribazole-5'-phosphate phosphatase PDBTitle: crystal structure of putative alpha-ribazole-5'-phosphate2 phosphatase ccbc from <i>vibrio parahaemolyticus</i>
25	c3d4iD	Alignment	not modelled	100.0	19	PDB header: hydrolase Chain: D: PDB Molecule: sts-2 protein; PDBTitle: crystal structure of the 2h-phosphatase domain of sts-2
26	c2qniA	Alignment	not modelled	100.0	15	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein atu0299; PDBTitle: crystal structure of uncharacterized protein atu0299
27	c2ikqA	Alignment	not modelled	100.0	19	PDB header: signaling protein, immune system Chain: A: PDB Molecule: suppressor of t-cell receptor signaling 1; PDBTitle: crystal structure of mouse sts-1 pgm domain in complex with phosphate
28	c3mxoB	Alignment	not modelled	100.0	22	PDB header: hydrolase Chain: B: PDB Molecule: serine/threonine-protein phosphatase pgam5, mitochondrial;

						PDBTitle: crystal structure oh human phosphoglycerate mutase family member 52 (pgam5)
29	d1v37a	Alignment	not modelled	100.0	35	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Cofactor-dependent phosphoglycerate mutase
30	c3c7tB	Alignment	not modelled	100.0	20	PDB header: hydrolase Chain: B: PDB Molecule: ecdysteroid-phosphate phosphatase; PDBTitle: crystal structure of the ecdysone phosphate phosphatase, eppase, from2 bombix mori in complex with tungstate
31	c3eoZB	Alignment	not modelled	100.0	30	PDB header: isomerase Chain: B: PDB Molecule: putative phosphoglycerate mutase; PDBTitle: crystal structure of phosphoglycerate mutase from plasmidium2 falciparum, pf0660w
32	c1ujcA	Alignment	not modelled	100.0	24	PDB header: hydrolase Chain: A: PDB Molecule: phosphohistidine phosphatase sixa; PDBTitle: structure of the protein histidine phosphatase sixa2 complexed with tungstate
33	c2rfIB	Alignment	not modelled	100.0	27	PDB header: hydrolase, isomerase Chain: B: PDB Molecule: putative phosphohistidine phosphatase sixa; PDBTitle: crystal structure of the putative phosphohistidine phosphatase sixa2 from agrobacterium tumefaciens
34	c3f2iD	Alignment	not modelled	99.9	22	PDB header: structural genomics, unknown function Chain: D: PDB Molecule: alr0221 protein; PDBTitle: crystal structure of the alr0221 protein from nostoc, northeast2 structural genomics consortium target nsr422.
35	c3fjyB	Alignment	not modelled	99.9	16	PDB header: hydrolase Chain: B: PDB Molecule: probable mutt1 protein; PDBTitle: crystal structure of a probable mutt1 protein from bifidobacterium2 adolescentis
36	c2glcA	Alignment	not modelled	98.1	21	PDB header: hydrolase Chain: A: PDB Molecule: histidine acid phosphatase; PDBTitle: structure of francisella tularensis histidine acid2 phosphatase bound to orthovanadate
37	d1nd6a	Alignment	not modelled	98.0	22	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Histidine acid phosphatase
38	d1rpaa	Alignment	not modelled	97.9	25	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Histidine acid phosphatase
39	d1ihpa	Alignment	not modelled	97.8	22	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Histidine acid phosphatase
40	d1dkla	Alignment	not modelled	97.7	24	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Histidine acid phosphatase
41	c2wniC	Alignment	not modelled	97.7	25	PDB header: hydrolase Chain: C: PDB Molecule: 3-phytase; PDBTitle: crystal structure analysis of klebsiella sp asr1 phytase
42	d1qwoa	Alignment	not modelled	97.6	17	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Histidine acid phosphatase
43	d1nt4a	Alignment	not modelled	97.5	16	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Histidine acid phosphatase
44	d1qfxa	Alignment	not modelled	97.4	26	Fold: Phosphoglycerate mutase-like Superfamily: Phosphoglycerate mutase-like Family: Histidine acid phosphatase
45	c2gfiB	Alignment	not modelled	97.2	29	PDB header: hydrolase Chain: B: PDB Molecule: phytase; PDBTitle: crystal structure of the phytase from d. castellii at 2.3 a
46	c3lfhF	Alignment	not modelled	35.5	25	PDB header: transferase Chain: F: PDB Molecule: phosphotransferase system, mannose/fructose-specific PDBTitle: crystal structure of manxa from thermoanaerobacter tengcongensis
47	d1qgoa	Alignment	not modelled	34.7	15	Fold: Chelatase-like Superfamily: Chelatase Family: Cobalt chelatase CbiK
48	d2hk6a1	Alignment	not modelled	33.3	15	Fold: Chelatase-like Superfamily: Chelatase Family: Ferrochelatase
49	c3mtqA	Alignment	not modelled	28.7	17	PDB header: transferase Chain: A: PDB Molecule: putative phosphoenolpyruvate-dependent sugar PDBTitle: crystal structure of a putative phosphoenolpyruvate-dependent sugar2 phosphotransferase system (pts) permease (kpn_04802) from klebsiella3 pneumoniae subsp. pneumoniae mgh 78578 at 1.70 a resolution
50	c3ngmB	Alignment	not modelled	26.6	26	PDB header: hydrolase Chain: B: PDB Molecule: extracellular lipase; PDBTitle: crystal structure of lipase from gibberella zeae
51	d1jl3a	Alignment	not modelled	24.4	5	Fold: Phosphotyrosine protein phosphatases I-like Superfamily: Phosphotyrosine protein phosphatases I Family: Low-molecular-weight phosphotyrosine protein phosphatases
52	d1tiaa	Alignment	not modelled	24.2	22	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Fungal lipases
53	c3o0dF	Alignment	not modelled	24.0	17	PDB header: hydrolase Chain: F: PDB Molecule: triacylglycerol lipase; PDBTitle: crystal structure of lip2 lipase from yarrowia lipolytica at 1.7 a2 resolution

54	d1dg9a		Alignment	not modelled	22.6	15	Fold: Phosphotyrosine protein phosphatases I-like Superfamily: Phosphotyrosine protein phosphatases I Family: Low-molecular-weight phosphotyrosine protein phosphatases
55	d1tiba		Alignment	not modelled	22.3	21	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Fungal lipases
56	c2wmyH		Alignment	not modelled	19.5	15	PDB header: hydrolase Chain: H: PDB Molecule: putative acid phosphatase wzb; PDB Title: crystal structure of the tyrosine phosphatase wzb from escherichia coli k30 in complex with sulphate.
57	c3ip5A		Alignment	not modelled	19.2	6	PDB header: hydrolase Chain: A: PDB Molecule: putative cell surface hydrolase; PDB Title: the crystal structure of the putative cell surface hydrolase from lactobacillus plantarum wcfs1
58	d3tgla		Alignment	not modelled	18.3	17	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Fungal lipases
59	c2jzca		Alignment	not modelled	18.0	35	PDB header: transferase Chain: A: PDB Molecule: udp-n-acetylglucosamine transferase subunit PDB Title: nmr solution structure of alg13: the sugar donor subunit of2 a yeast n-acetylglucosamine transferase. northeast structural genomics consortium target yg1
60	d3beda1		Alignment	not modelled	16.8	24	Fold: PTS system fructose IIA component-like Superfamily: PTS system fructose IIA component-like Family: EIIA-man component-like
61	c2feKA		Alignment	not modelled	15.8	20	PDB header: hydrolase Chain: A: PDB Molecule: low molecular weight protein-tyrosine- PDB Title: structure of a protein tyrosine phosphatase
62	c1u2pA		Alignment	not modelled	15.2	11	PDB header: hydrolase Chain: A: PDB Molecule: low molecular weight protein-tyrosine- PDB Title: crystal structure of mycobacterium tuberculosis low2 molecular protein tyrosine phosphatase (mptpa) at 1.9a3 resolution
63	d1pdoa		Alignment	not modelled	15.1	29	Fold: PTS system fructose IIA component-like Superfamily: PTS system fructose IIA component-like Family: EIIA-man component-like
64	c2o6IA		Alignment	not modelled	15.1	30	PDB header: transferase Chain: A: PDB Molecule: udp-glucuronosyltransferase 2b7; PDB Title: crystal structure of the udp-glucuronic acid binding domain2 of the human drug metabolizing udp-glucuronosyltransferase3 2b7
65	c3g7nA		Alignment	not modelled	15.0	17	PDB header: hydrolase Chain: A: PDB Molecule: lipase; PDB Title: crystal structure of a triacylglycerol lipase from penicillium expansum at 1.3
66	d1l1sa		Alignment	not modelled	14.9	9	Fold: DsrEFH-like Superfamily: DsrEFH-like Family: DsrEF-like
67	d2ejna1		Alignment	not modelled	14.8	29	Fold: Uteroglobin-like Superfamily: Uteroglobin-like Family: Uteroglobin-like
68	d1d1qa		Alignment	not modelled	14.7	5	Fold: Phosphotyrosine protein phosphatases I-like Superfamily: Phosphotyrosine protein phosphatases I Family: Low-molecular-weight phosphotyrosine protein phosphatases
69	d2vcha1		Alignment	not modelled	14.6	25	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDPGT-like
70	c3gx1A		Alignment	not modelled	14.3	24	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: lin1832 protein; PDB Title: crystal structure of a domain of lin1832 from listeria innocua
71	c2gi4A		Alignment	not modelled	13.9	10	PDB header: hydrolase Chain: A: PDB Molecule: possible phosphotyrosine protein phosphatase; PDB Title: solution structure of the low molecular weight protein2 tyrosine phosphatase from campylobacter jejuni.
72	d2acva1		Alignment	not modelled	13.3	35	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDPGT-like
73	d1vjea		Alignment	not modelled	13.1	13	Fold: LuxS/MPP-like metallohydrolase Superfamily: LuxS/MPP-like metallohydrolase Family: Autoinducer-2 production protein LuxS
74	c2l18A		Alignment	not modelled	12.8	5	PDB header: oxidoreductase Chain: A: PDB Molecule: arsenate reductase; PDB Title: an arsenate reductase in the phosphate binding state
75	c3hbja		Alignment	not modelled	12.3	21	PDB header: transferase Chain: A: PDB Molecule: flavonoid 3-o-glucosyltransferase; PDB Title: structure of ugt78g1 complexed with udp
76	d1uwca		Alignment	not modelled	11.9	14	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Fungal lipases
77	c3iprC		Alignment	not modelled	11.8	12	PDB header: transferase Chain: C: PDB Molecule: pts system, iia component; PDB Title: crystal structure of the enterococcus faecalis gluconate2 specific eiia phosphotransferase system component
78	c3e90C		Alignment	not modelled	11.5	23	PDB header: hydrolase Chain: C: PDB Molecule: ns2b cofactor; PDB Title: west nile vi rus ns2b-ns3protease in complexed with inhibitor naph-kkr-h
79	c3ds8A		Alignment	not modelled	11.1	12	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: lin2722 protein; PDB Title: the crystal structure of the gene lin2722 products from

80	d1ylla_	Alignment	not modelled	11.0	16	listeria2 innocua Fold: Phosphotyrosine protein phosphatases I-like Superfamily: Phosphotyrosine protein phosphatases I Family: Low-molecular-weight phosphotyrosine protein phosphatases
81	d1nvta1	Alignment	not modelled	10.7	14	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Aminoacid dehydrogenase-like, C-terminal domain
82	c2ijoA_	Alignment	not modelled	10.5	23	PDB header: hydrolase/hydrolase inhibitor Chain: A: PDB Molecule: polyprotein; PDBTitle: crystal structure of the west nile virus ns2b-ns3 protease2 complexed with bovine pancreatic trypsin inhibitor
83	c2pd2A_	Alignment	not modelled	10.5	13	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein st0148; PDBTitle: crystal structure of (st0148) conserved hypothetical from sulfolobus2 tokodaii strain7
84	d2pq6a1	Alignment	not modelled	10.0	21	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDPGT-like
85	c3lfjB_	Alignment	not modelled	9.9	45	PDB header: transferase Chain: B: PDB Molecule: phosphotransferase system, mannose/fructose/n- PDBTitle: crystal structure of manxb from thermoanaerobacter tengcongensis
86	c3jviA_	Alignment	not modelled	9.8	16	PDB header: hydrolase Chain: A: PDB Molecule: protein tyrosine phosphatase; PDBTitle: product state mimic crystal structure of protein tyrosine phosphatase2 from entamoeba histolytica
87	c2zyiB_	Alignment	not modelled	9.6	18	PDB header: hydrolase Chain: B: PDB Molecule: lipase, putative; PDBTitle: a. fulgidus lipase with fatty acid fragment and calcium
88	d1jf8a_	Alignment	not modelled	9.5	9	Fold: Phosphotyrosine protein phosphatases I-like Superfamily: Phosphotyrosine protein phosphatases I Family: Low-molecular-weight phosphotyrosine protein phosphatases
89	c1zggA_	Alignment	not modelled	9.1	16	PDB header: hydrolase Chain: A: PDB Molecule: putative low molecular weight protein-tyrosine- PDBTitle: solution structure of a low molecular weight protein2 tyrosine phosphatase from bacillus subtilis
90	d3b48a1	Alignment	not modelled	8.9	25	Fold: PTS system fructose IIA component-like Superfamily: PTS system fructose IIA component-like Family: DhaM-like
91	d1lgya_	Alignment	not modelled	8.4	12	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Fungal lipases
92	d1lbqa_	Alignment	not modelled	7.3	15	Fold: Chelatase-like Superfamily: Chelatase Family: Ferrochelatase
93	c3rofA_	Alignment	not modelled	7.3	33	PDB header: hydrolase Chain: A: PDB Molecule: low molecular weight protein-tyrosine-phosphatase ptpa; PDBTitle: crystal structure of the s. aureus protein tyrosine phosphatase ptpa
94	d1nyta1	Alignment	not modelled	7.2	24	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Aminoacid dehydrogenase-like, C-terminal domain
95	d2hrca1	Alignment	not modelled	7.2	10	Fold: Chelatase-like Superfamily: Chelatase Family: Ferrochelatase
96	c2xvza_	Alignment	not modelled	7.1	14	PDB header: metal binding protein Chain: A: PDB Molecule: chelatase, putative; PDBTitle: cobalt chelatase cbik (periplasmatic) from desulvobrio vulgaris hildenborough (co-crystallized with cobalt)
97	c2p10D_	Alignment	not modelled	7.1	23	PDB header: hydrolase Chain: D: PDB Molecule: ml19387 protein; PDBTitle: crystal structure of a putative phosphonopyruvate hydrolase (ml19387)2 from mesorhizobium loti maff303099 at 2.15 a resolution
98	d2c1xa1	Alignment	not modelled	7.0	21	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDPGT-like
99	c3fiuD_	Alignment	not modelled	6.9	12	PDB header: ligase Chain: D: PDB Molecule: nh(3)-dependent nad(+) synthetase; PDBTitle: structure of nmn synthetase from francisella tularensis