





























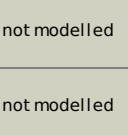


Phyre2

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Description	P0A776
Date	Thu Jan 5 11:05:00 GMT 2012
Unique Job ID	77082d3cec223ce7

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2kdvA_	 Alignment		100.0	100	PDB header: hydrolase Chain: A: PDB Molecule: rna pyrophosphohydrolase; PDBTitle: solution structure of rna pyrophosphohydrolase rpph from2 escherichia coli
2	dljkna_	 Alignment		100.0	39	Fold: Nudix Superfamily: Nudix Family: MutT-like
3	c2jvbA_	 Alignment		99.9	17	PDB header: hydrolase Chain: A: PDB Molecule: mrna-decapping enzyme subunit 2; PDBTitle: solution structure of catalytic domain of ydcp2
4	dlxsba_	 Alignment		99.9	21	Fold: Nudix Superfamily: Nudix Family: MutT-like
5	c3fjyB_	 Alignment		99.9	17	PDB header: hydrolase Chain: B: PDB Molecule: probable mutt1 protein; PDBTitle: crystal structure of a probable mutt1 protein from bifidobacterium2 adolescentis
6	c2o1cB_	 Alignment		99.9	22	PDB header: hydrolase Chain: B: PDB Molecule: datp pyrophosphohydrolase; PDBTitle: structure of the e. coli dihydroneopterin triphosphate2 pyrophosphohydrolase
7	dlktga_	 Alignment		99.9	22	Fold: Nudix Superfamily: Nudix Family: MutT-like
8	c3sonB_	 Alignment		99.9	20	PDB header: hydrolase Chain: B: PDB Molecule: hypothetical nudix hydrolase; PDBTitle: crystal structure of a hypothetical nudix hydrolase (lmof2365_2679)2 from listeria monocytogenes (atcc 19115) at 1.70 a resolution
9	c2pq1B_	 Alignment		99.9	21	PDB header: hydrolase Chain: B: PDB Molecule: ap4a hydrolase; PDBTitle: crystal structure of ap4a hydrolase complexed with amp and2 atp (aq_158) from aquifex aeolicus vf5
10	d2azwa1	 Alignment		99.9	18	Fold: Nudix Superfamily: Nudix Family: MutT-like
11	d2b0va1	 Alignment		99.9	19	Fold: Nudix Superfamily: Nudix Family: MutT-like

12	c3fcmA_	Alignment		99.9	11	PDB header: hydrolase Chain: A: PDB Molecule: hydrolase, nudix family; PDBTitle: crystal structure of a nudix hydrolase from clostridium2 perfringens
13	d2fvva1	Alignment		99.9	17	Fold: Nudix Superfamily: Nudix Family: MutT-like
14	c2fvvA_	Alignment		99.9	17	PDB header: hydrolase Chain: A: PDB Molecule: diphosphoinositol polyphosphate phosphohydrolase PDBTitle: human diphosphoinositol polyphosphate phosphohydrolase 1
15	d1sjya_	Alignment		99.9	22	Fold: Nudix Superfamily: Nudix Family: MutT-like
16	c2qkmF_	Alignment		99.9	21	PDB header: hydrolase Chain: F: PDB Molecule: spac19a8.12 protein; PDBTitle: the crystal structure of fission yeast mrna decapping enzyme dcp1-dcp22 complex
17	c3dkuB_	Alignment		99.8	19	PDB header: hydrolase Chain: B: PDB Molecule: putative phosphohydrolase; PDBTitle: crystal structure of nudix hydrolase orf153, ymf6, from2 escherichia coli k-1
18	c3h95A_	Alignment		99.8	17	PDB header: gene regulation Chain: A: PDB Molecule: nucleoside diphosphate-linked moiety x motif 6; PDBTitle: crystal structure of the nudix domain of nudt6
19	c3q4iA_	Alignment		99.8	14	PDB header: hydrolase Chain: A: PDB Molecule: phosphohydrolase (mutt/nudix family protein); PDBTitle: crystal structure of cdp-chase in complex with gd3+
20	c3grnB_	Alignment		99.8	25	PDB header: hydrolase Chain: B: PDB Molecule: mutt related protein; PDBTitle: crystal structure of mutt protein from methanosarcina mazei go1
21	d1vcda1	Alignment	not modelled	99.8	26	Fold: Nudix Superfamily: Nudix Family: MutT-like
22	d1vk6a2	Alignment	not modelled	99.8	24	Fold: Nudix Superfamily: Nudix Family: NADH pyrophosphatase
23	d1ryaa_	Alignment	not modelled	99.8	18	Fold: Nudix Superfamily: Nudix Family: GDP-mannose mannosyl hydrolase NudD
24	d2a6ta2	Alignment	not modelled	99.8	17	Fold: Nudix Superfamily: Nudix Family: mRNA decapping enzyme-like
25	d2fb1a2	Alignment	not modelled	99.8	12	Fold: Nudix Superfamily: Nudix Family: BT0354 N-terminal domain-like
26	c2gb5B_	Alignment	not modelled	99.8	24	PDB header: hydrolase Chain: B: PDB Molecule: nadh pyrophosphatase; PDBTitle: crystal structure of nadh pyrophosphatase (ec 3.6.1.22) (1790429) from2 escherichia coli k12 at 2.30 a resolution
27	d1k2ea_	Alignment	not modelled	99.8	15	Fold: Nudix Superfamily: Nudix Family: MutT-like
28	d2fkba1	Alignment	not modelled	99.8	14	Fold: Nudix Superfamily: Nudix Family: IPP isomerase-like
29	d1nqza_	Alignment	not modelled	99.8	26	Fold: Nudix Superfamily: Nudix

					Family: MuTt-like
30	c3n77B	Alignment	not modelled	99.8	20 PDB header: hydrolase Chain: B: PDB Molecule: nucleoside triphosphatase nudix; PDBTitle: crystal structure of idp01880, putative ntp pyrophosphohydrolase of2 salmonella typhimurium lt2
31	d2b06a1	Alignment	not modelled	99.8	17 Fold: Nudix Superfamily: Nudix Family: MuTt-like
32	c3o8sA	Alignment	not modelled	99.8	15 PDB header: hydrolase Chain: A: PDB Molecule: adp-ribose pyrophosphatase; PDBTitle: crystal structure of an adp-ribose pyrophosphatase (ssu98_1448) from2 streptococcus suis 89-1591 at 2.27 a resolution
33	c3cngC	Alignment	not modelled	99.8	20 PDB header: hydrolase Chain: C: PDB Molecule: nudix hydrolase; PDBTitle: crystal structure of nudix hydrolase from nitrosomonas europaea
34	c3gwyA	Alignment	not modelled	99.8	18 PDB header: hydrolase Chain: A: PDB Molecule: putative ctp pyrophosphohydrolase; PDBTitle: crystal structure of putative ctp pyrophosphohydrolase from2 bacteroides fragilis
35	c3gg6A	Alignment	not modelled	99.8	19 PDB header: hydrolase Chain: A: PDB Molecule: nucleoside diphosphate-linked moiety x motif 18; PDBTitle: crystal structure of the nudix domain of human nudt18
36	c3r03B	Alignment	not modelled	99.8	20 PDB header: hydrolase Chain: B: PDB Molecule: nudix hydrolase; PDBTitle: the crystal structure of nudix hydrolase from rhodospirillum rubrum
37	c3gz8C	Alignment	not modelled	99.8	15 PDB header: dna binding protein Chain: C: PDB Molecule: mutt/nudix family protein; PDBTitle: cocrystal structure of nudix domain of shewanella oneidensis2 ntrr complexed with adp ribose
38	c3hhjA	Alignment	not modelled	99.8	19 PDB header: hydrolase Chain: A: PDB Molecule: mutator mutt protein; PDBTitle: crystal structure of mutator mutt from bartonella henselae
39	c3f6aA	Alignment	not modelled	99.8	14 PDB header: hydrolase Chain: A: PDB Molecule: hydrolase, nudix family; PDBTitle: crystal structure of a hydrolase, nudix family from2 clostridium perfringens
40	d1ppva	Alignment	not modelled	99.8	17 Fold: Nudix Superfamily: Nudix Family: IPP isomerase-like
41	c2qjoB	Alignment	not modelled	99.8	21 PDB header: transferase, hydrolase Chain: B: PDB Molecule: bifunctional nmh adenylyltransferase/nudix hydrolase; PDBTitle: crystal structure of a bifunctional nmh adenylyltransferase/adp ribose2 pyrophosphatase (nadm) complexed with adprp and nad from3 synechocystis sp.
42	c3fk9B	Alignment	not modelled	99.8	20 PDB header: hydrolase Chain: B: PDB Molecule: mutator mutt protein; PDBTitle: crystal structure of mmutator mutt protein from bacillus2 halodurans
43	c3ef5A	Alignment	not modelled	99.8	19 PDB header: hydrolase Chain: A: PDB Molecule: probable pyrophosphohydrolase; PDBTitle: structure of the rna pyrophosphohydrolase bdrpph in complex with dgtp
44	c2yvoA	Alignment	not modelled	99.8	18 PDB header: hydrolase Chain: A: PDB Molecule: mutt/nudix family protein; PDBTitle: crystal structure of ndx2 in complex with mg2+ and amp from thermus2 thermophilus hb8
45	d1hzta	Alignment	not modelled	99.8	16 Fold: Nudix Superfamily: Nudix Family: IPP isomerase-like
46	c2r5wA	Alignment	not modelled	99.8	18 PDB header: hydrolase, transferase Chain: A: PDB Molecule: nicotinamide-nucleotide adenylyltransferase; PDBTitle: crystal structure of a bifunctional nmh2 adenylyltransferase/adp ribose pyrophosphatase from3 francisella tularensis
47	c3edsA	Alignment	not modelled	99.8	23 PDB header: hydrolase Chain: A: PDB Molecule: mutt/nudix family protein; PDBTitle: crystal structure of a mut/nudix family protein from bacillus2 thuringiensis
48	c2fb1A	Alignment	not modelled	99.8	17 PDB header: structural genomics, unknown function Chain: A: PDB Molecule: conserved hypothetical protein; PDBTitle: crystal structure of protein bt0354 from bacteroides thetaiotaomicron
49	c2pqvA	Alignment	not modelled	99.8	17 PDB header: structural genomics, unknown function Chain: A: PDB Molecule: mutt/nudix family protein; PDBTitle: crystal structure of mutt/nudix family protein from streptococcus2 pneumoniae
50	d2o5fa1	Alignment	not modelled	99.8	16 Fold: Nudix Superfamily: Nudix Family: IPP isomerase-like
51	d1puna	Alignment	not modelled	99.8	21 Fold: Nudix Superfamily: Nudix Family: MuTt-like
52	c2w4eA	Alignment	not modelled	99.8	20 PDB header: hydrolase Chain: A: PDB Molecule: mutt/nudix family protein; PDBTitle: structure of an n-terminally truncated nudix hydrolase2 dr2204 from deinococcus radiodurans
53	c3exqA	Alignment	not modelled	99.8	17 PDB header: hydrolase Chain: A: PDB Molecule: nudix family hydrolase; PDBTitle: crystal structure of a nudix family hydrolase from2 lactobacillus brevis
54	c3i9vA	Alignment	not modelled	99.8	17 PDB header: hydrolase Chain: A: PDB Molecule: mutt/nudix family protein;

54	c3g2AA	Alignment	not modelled	99.8	17	PDBTitle: crystal structure of a mutt/nudix family protein from listeria innocua PDB header: dna binding protein/dna
55	c3gz6A	Alignment	not modelled	99.8	17	Chain: A: PDB Molecule: mutt/nudix family protein; PDBTitle: crystal structure of shewanella oneidensis nrtr complexed2 with a 27mer dna
56	c2yyhC	Alignment	not modelled	99.8	13	PDB header: hydrolase Chain: C: PDB Molecule: 8-oxo-dgtpase domain; PDBTitle: crystal structure of nudix family protein from aquifex aeolicus
57	c3id9B	Alignment	not modelled	99.7	18	PDB header: hydrolase Chain: B: PDB Molecule: mutt/nudix family protein; PDBTitle: crystal structure of a mutt/nudix family protein from2 bacillus thuringiensis
58	d1vhza	Alignment	not modelled	99.7	20	Fold: Nudix Superfamily: Nudix Family: MutT-like
59	d1g0sa	Alignment	not modelled	99.7	18	Fold: Nudix Superfamily: Nudix Family: MutT-like
60	c3bm4B	Alignment	not modelled	99.7	19	PDB header: hydrolase Chain: B: PDB Molecule: adp-sugar pyrophosphatase; PDBTitle: crystal structure of human adp-ribose pyrophosphatase nudt52 in complex with magnesium and ampcpr
61	d1iryA	Alignment	not modelled	99.7	16	Fold: Nudix Superfamily: Nudix Family: MutT-like
62	d1mqea	Alignment	not modelled	99.7	20	Fold: Nudix Superfamily: Nudix Family: MutT-like
63	d1v8ya	Alignment	not modelled	99.7	22	Fold: Nudix Superfamily: Nudix Family: MutT-like
64	c3rh7A	Alignment	not modelled	99.7	15	PDB header: oxidoreductase Chain: A: PDB Molecule: hypothetical oxidoreductase; PDBTitle: crystal structure of a hypothetical oxidoreductase (sma0793) from2 sinorhizobium meliloti 1021 at 3.00 a resolution
65	d2fmla2	Alignment	not modelled	99.7	23	Fold: Nudix Superfamily: Nudix Family: BT0354 N-terminal domain-like
66	c3f13A	Alignment	not modelled	99.7	23	PDB header: hydrolase Chain: A: PDB Molecule: putative nudix hydrolase family member; PDBTitle: crystal structure of putative nudix hydrolase family member2 from chromobacterium violaceum
67	c3e57A	Alignment	not modelled	99.6	14	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein tm1382; PDBTitle: crystal structure of tm1382, a putative nudix hydrolase
68	d1viua	Alignment	not modelled	99.6	21	Fold: Nudix Superfamily: Nudix Family: MutT-like
69	c3q91D	Alignment	not modelled	99.6	16	PDB header: hydrolase Chain: D: PDB Molecule: uridine diphosphate glucose pyrophosphatase; PDBTitle: crystal structure of human uridine diphosphate glucose pyrophosphatase2 (nudt14)
70	c2fmlB	Alignment	not modelled	99.6	21	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: mutt/nudix family protein; PDBTitle: crystal structure of mutt/nudix family protein from enterococcus2 faecalis
71	d1x51a1	Alignment	not modelled	99.6	16	Fold: Nudix Superfamily: Nudix Family: MutY C-terminal domain-like
72	c2i6kA	Alignment	not modelled	99.6	14	PDB header: isomerase Chain: A: PDB Molecule: isopentenyl-diphosphate delta-isomerase 1; PDBTitle: crystal structure of human type i ipp isomerase complexed2 with a substrate analog
73	c1rrqA	Alignment	not modelled	99.6	20	PDB header: hydrolase/dna Chain: A: PDB Molecule: muty; PDBTitle: muty adenine glycosylase in complex with dna containing an2 a:oxog pair
74	d1q33a	Alignment	not modelled	99.6	18	Fold: Nudix Superfamily: Nudix Family: MutT-like
75	d1u20a1	Alignment	not modelled	99.5	20	Fold: Nudix Superfamily: Nudix Family: MutT-like
76	c2pnyA	Alignment	not modelled	99.5	16	PDB header: isomerase Chain: A: PDB Molecule: isopentenyl-diphosphate delta-isomerase 2; PDBTitle: structure of human isopentenyl-diphosphate delta-isomerase 2
77	d1rrqa2	Alignment	not modelled	99.5	19	Fold: Nudix Superfamily: Nudix Family: MutY C-terminal domain-like
78	c3qsjA	Alignment	not modelled	99.5	26	PDB header: hydrolase Chain: A: PDB Molecule: nudix hydrolase; PDBTitle: crystal structure of nudix hydrolase from alicyclobacillus2 acidocaldarius
79	c2j8qB	Alignment	not modelled	99.5	18	PDB header: nuclear protein Chain: B: PDB Molecule: cleavage and polyadenylation specificity factor 5; PDBTitle: crystal structure of human cleavage and polyadenylation2 specificity factor 5 (cpsf5) in complex with a sulphate3 ion.

80	c3dupB	Alignment	not modelled	99.3	16	PDB header: hydrolase Chain: B: PDB Molecule: mutt/nudix family protein; PDBTitle: crystal structure of mutt/nudix family hydrolase from rhodospirillum2 rubrum atcc 11170
81	c3couA	Alignment	not modelled	99.0	20	PDB header: hydrolase Chain: A: PDB Molecule: nucleoside diphosphate-linked moiety x motif 16; PDBTitle: crystal structure of human nudix motif 16 (nudt16)
82	c3kvhA	Alignment	not modelled	98.6	22	PDB header: rna binding protein Chain: A: PDB Molecule: protein syndesmos; PDBTitle: crystal structure of human protein syndesmos (nudt16-like protein)
83	c3p5tE	Alignment	not modelled	97.6	26	PDB header: rna binding protein Chain: E: PDB Molecule: cleavage and polyadenylation specificity factor subunit 5; PDBTitle: cfim25-cfim68 complex
84	c3flcX	Alignment	not modelled	44.2	14	PDB header: transferase Chain: X: PDB Molecule: glycerol kinase; PDBTitle: crystal structure of the his-tagged h232r mutant of glycerol kinase2 from enterococcus casseliflavus with glycerol
85	c1glbG	Alignment	not modelled	41.5	8	PDB header: phosphotransferase Chain: G: PDB Molecule: glycerol kinase; PDBTitle: structure of the regulatory complex of escherichia coli iiglc with2 glycerol kinase
86	d2p3ra1	Alignment	not modelled	40.2	10	Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Glycerol kinase
87	c2zf5O	Alignment	not modelled	39.4	8	PDB header: transferase Chain: O: PDB Molecule: glycerol kinase; PDBTitle: crystal structure of highly thermostable glycerol kinase from a2 hyperthermophilic archaeon
88	c3g25B	Alignment	not modelled	38.7	12	PDB header: transferase Chain: B: PDB Molecule: glycerol kinase; PDBTitle: 1.9 angstrom crystal structure of glycerol kinase (glpk) from2 staphylococcus aureus in complex with glycerol.
89	c3ezwD	Alignment	not modelled	36.1	8	PDB header: transferase Chain: D: PDB Molecule: glycerol kinase; PDBTitle: crystal structure of a hyperactive escherichia coli glycerol kinase2 mutant gly230 --> asp obtained using microfluidic crystallization3 devices
90	c3d0jA	Alignment	not modelled	29.7	16	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein ca_c3497; PDBTitle: crystal structure of conserved protein of unknown function ca_c34972 from clostridium acetobutylicum atcc 824
91	c3gg4B	Alignment	not modelled	29.3	10	PDB header: transferase Chain: B: PDB Molecule: glycerol kinase; PDBTitle: the crystal structure of glycerol kinase from yersinia2 pseudotuberculosis
92	d1gw5s	Alignment	not modelled	28.2	37	Fold: Profilin-like Superfamily: SNARE-like Family: Clathrin coat assembly domain
93	c2d4wA	Alignment	not modelled	26.8	9	PDB header: transferase Chain: A: PDB Molecule: glycerol kinase; PDBTitle: crystal structure of glycerol kinase from cellulomonas sp.2 nt3060
94	c3hz6A	Alignment	not modelled	26.6	11	PDB header: transferase Chain: A: PDB Molecule: xylulokinase; PDBTitle: crystal structure of xylulokinase from chromobacterium violaceum
95	c2hf6A	Alignment	not modelled	24.9	20	PDB header: protein transport Chain: A: PDB Molecule: coatomer subunit zeta-1; PDBTitle: solution structure of human zeta-cop
96	c2dnpB	Alignment	not modelled	23.3	13	PDB header: transferase Chain: B: PDB Molecule: glycerol kinase; PDBTitle: crystal structure of the glycerol kinase from thermus2 thermophilus hb8
97	c3svkB	Alignment	not modelled	23.1	10	PDB header: transferase Chain: B: PDB Molecule: acetyl-coa acetyltransferase; PDBTitle: crystal structure of acetyl-coa acetyltransferase from mycobacterium2 avium
98	c1w63T	Alignment	not modelled	23.0	16	PDB header: endocytosis Chain: T: PDB Molecule: adapter-related protein complex 1 sigma 1a PDBTitle: ap1 clathrin adaptor core
99	c2w41C	Alignment	not modelled	21.6	17	PDB header: hydrolase Chain: C: PDB Molecule: deoxycytidylate deaminase; PDBTitle: human dcmp deaminase