

Phyre²

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Description	P77624
Date	Thu Jan 5 12:31:13 GMT 2012
Unique Job ID	64b005ead47b2854

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1e19a_	Alignment		100.0	45	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: Carbamate kinase
2	c2e9yA_	Alignment		100.0	38	PDB header: transferase Chain: A: PDB Molecule: carbamate kinase; PDBTitle: crystal structure of project ape1968 from aeropyrum pernix k1
3	d1b7ba_	Alignment		100.0	44	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: Carbamate kinase
4	c3kzfC_	Alignment		100.0	41	PDB header: transferase Chain: C: PDB Molecule: carbamate kinase; PDBTitle: structure of giardia carbamate kinase
5	d2bufa1	Alignment		100.0	22	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: N-acetyl-l-glutamate kinase
6	c2rd5A_	Alignment		100.0	20	PDB header: protein binding Chain: A: PDB Molecule: acetylglutamate kinase-like protein; PDBTitle: structural basis for the regulation of n-acetylglutamate kinase by pii2 in arabidopsis thaliana
7	d2ap9a1	Alignment		100.0	20	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: N-acetyl-l-glutamate kinase
8	c2r98A_	Alignment		100.0	15	PDB header: transferase Chain: A: PDB Molecule: putative acetylglutamate synthase; PDBTitle: crystal structure of n-acetylglutamate synthase (selenomet2 substituted) from neisseria gonorrhoeae
9	d1gs5a_	Alignment		100.0	21	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: N-acetyl-l-glutamate kinase
10	c2v5hB_	Alignment		100.0	20	PDB header: transcription Chain: B: PDB Molecule: acetylglutamate kinase; PDBTitle: controlling the storage of nitrogen as arginine: the2 complex of pii and acetylglutamate kinase from3 synechococcus elongatus pcc 7942
11	d2hmfa1	Alignment		100.0	16	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: Pyr-like

12	d2btyna1		100.0	18	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: N-acetyl-l-glutamate kinase
13	c3l86A_		100.0	18	PDB header: transferase Chain: A: PDB Molecule: acetylglutamate kinase; PDBTitle: the crystal structure of smu.665 from streptococcus mutans ua159
14	c2j5tF_		100.0	18	PDB header: transferase Chain: F: PDB Molecule: glutamate 5-kinase; PDBTitle: glutamate 5-kinase from escherichia coli complexed with2 glutamate
15	c3c1nA_		100.0	17	PDB header: transferase Chain: A: PDB Molecule: probable aspartokinase; PDBTitle: crystal structure of allosteric inhibition threonine-sensitive2 aspartokinase from methanococcus jannaschii with L-threonine
16	c2egxA_		100.0	19	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative acetylglutamate kinase; PDBTitle: crystal structure of the putative acetylglutamate kinase from thermus2 thermophilus
17	c2w21A_		100.0	17	PDB header: transferase Chain: A: PDB Molecule: glutamate 5-kinase; PDBTitle: crystal structure of the aminoacid kinase domain of the2 glutamate 5 kinase of escherichia coli.
18	d2cdq1		100.0	14	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: PyrH-like
19	d2j0wa1		100.0	18	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: PyrH-like
20	c3l76B_		100.0	17	PDB header: transferase Chain: B: PDB Molecule: aspartokinase; PDBTitle: crystal structure of aspartate kinase from synechocystis
21	d2bnea1	Alignment not modelled	100.0	15	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: PyrH-like
22	c2cdqB_	Alignment not modelled	100.0	15	PDB header: transferase Chain: B: PDB Molecule: aspartokinase; PDBTitle: crystal structure of arabidopsis thaliana aspartate kinase2 complexed with lysine and s-adenosylmethionine
23	c2j0wA_	Alignment not modelled	100.0	18	PDB header: transferase Chain: A: PDB Molecule: lysine-sensitive aspartokinase 3; PDBTitle: crystal structure of e. coli aspartokinase iii in complex2 with aspartate and adp (r-state)
24	d1ybda1	Alignment not modelled	100.0	16	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: PyrH-like
25	c3ab4K_	Alignment not modelled	100.0	19	PDB header: transferase Chain: K: PDB Molecule: aspartokinase; PDBTitle: crystal structure of feedback inhibition resistant mutant of aspartate2 kinase from corynebacterium glutamicum in complex with lysine and3 threonine
26	d1z9da1	Alignment not modelled	100.0	17	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: PyrH-like
27	c3l15C_	Alignment not modelled	100.0	18	PDB header: transferase Chain: C: PDB Molecule: gamma-glutamyl kinase related protein; PDBTitle: crystal structure of t. acidophilum isopentenyl phosphate kinase2 product complex
28	c3l19A_	Alignment not modelled	100.0	21	PDB header: transferase Chain: A: PDB Molecule: isopentenyl phosphate kinase; PDBTitle: x-ray structures of isopentenyl phosphate kinase

29	c3ek5A		Alignment	not modelled	100.0	19	PDB header: transferase Chain: A: PDB Molecule: uridylyl kinase; PDBTitle: unique gtp-binding pocket and allostery of ump kinase from a gram-2 negative phytopathogen bacterium
30	d2akoa1		Alignment	not modelled	100.0	18	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: PyrH-like
31	c2jjxC		Alignment	not modelled	100.0	18	PDB header: transferase Chain: C: PDB Molecule: uridylylate kinase; PDBTitle: the crystal structure of ump kinase from bacillus anthracis2 (ba1797)
32	c3k4yB		Alignment	not modelled	100.0	21	PDB header: transferase Chain: B: PDB Molecule: isopentenyl phosphate kinase; PDBTitle: crystal structure of isopentenyl phosphate kinase from m. jannaschii2 in complex with ipp
33	c3nwyB		Alignment	not modelled	100.0	19	PDB header: transferase Chain: B: PDB Molecule: uridylylate kinase; PDBTitle: structure and allosteric regulation of the uridine monophosphate2 kinase from mycobacterium tuberculosis
34	d2a1fa1		Alignment	not modelled	100.0	18	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: PyrH-like
35	c2ogxB		Alignment	not modelled	100.0	19	PDB header: metal binding protein Chain: B: PDB Molecule: molybdenum storage protein subunit beta; PDBTitle: the crystal structure of the molybdenum storage protein from2 azotobacter vinelandii loaded with polyoxotungstates (wsto)
36	c3d40A		Alignment	not modelled	100.0	18	PDB header: transferase Chain: A: PDB Molecule: foma protein; PDBTitle: crystal structure of fosfomycin resistance foma from2 streptomyces wedmorensis complexed with diphosphate
37	d2ij9a1		Alignment	not modelled	100.0	25	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: PyrH-like
38	d2brxa1		Alignment	not modelled	100.0	22	Fold: Carbamate kinase-like Superfamily: Carbamate kinase-like Family: PyrH-like
39	c2va1A		Alignment	not modelled	100.0	16	PDB header: transferase Chain: A: PDB Molecule: uridylyl kinase; PDBTitle: crystal structure of ump kinase from ureaplasma parvum
40	c2ogxA		Alignment	not modelled	100.0	20	PDB header: metal binding protein Chain: A: PDB Molecule: molybdenum storage protein subunit alpha; PDBTitle: the crystal structure of the molybdenum storage protein from2 azotobacter vinelandii loaded with polyoxotungstates (wsto)
41	c2j4kC		Alignment	not modelled	100.0	19	PDB header: transferase Chain: C: PDB Molecule: uridylylate kinase; PDBTitle: crystal structure of uridylyl kinase from sulfolobus2 solfatarius in complex with ump to 2.2 angstrom3 resolution
42	c3bg9A		Alignment	not modelled	56.9	28	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: predicted rosmann fold nucleotide-binding domain- PDBTitle: crystal structure of predicted nucleotide-binding protein from2 idiomarina baltica os145
43	d2zdra2		Alignment	not modelled	52.9	22	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: NeuB-like
44	d1iowa1		Alignment	not modelled	44.3	20	Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: D-Alanine ligase N-terminal domain
45	c2dlmA		Alignment	not modelled	41.1	20	PDB header: ligase(peptidoglycan synthesis) Chain: A: PDB Molecule: d-alanine-d-alanine ligase; PDBTitle: vancomycin resistance: structure of d-alanine:d-alanine2 ligase at 2.3 angstroms resolution
46	c4a1al		Alignment	not modelled	38.5	29	PDB header: ribosome Chain: I: PDB Molecule: 60s ribosomal protein l13a; PDBTitle: tthermophila 60s ribosomal subunit in complex with2 initiation factor 6. this file contains 5s rrna,3 5.8s rrna and proteins of molecule 3.
47	d1xpja		Alignment	not modelled	35.5	13	Fold: HAD-like Superfamily: HAD-like Family: Hypothetical protein VC0232
48	c3mn1B		Alignment	not modelled	33.4	12	PDB header: hydrolase Chain: B: PDB Molecule: probable yrbi family phosphatase; PDBTitle: crystal structure of probable yrbi family phosphatase from pseudomonas2 syringae pv. phaseolicola 1448a
49	c2re2A		Alignment	not modelled	26.8	12	PDB header: oxidoreductase Chain: A: PDB Molecule: uncharacterized protein ta1041; PDBTitle: crystal structure of a putative iron-molybdenum cofactor (femo-co)2 dinitrogenase (ta1041m) from thermoplasma acidophilum dsm 1728 at3 1.30 a resolution
50	c3dnpA		Alignment	not modelled	26.0	19	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
51	c2yx6C		Alignment	not modelled	24.3	5	PDB header: structural genomics, unknown function Chain: C: PDB Molecule: hypothetical protein ph0822; PDBTitle: crystal structure of ph0822
52	d2b0ja2		Alignment	not modelled	23.8	23	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
53	c3r4ca		Alignment	not modelled	21.8	18	PDB header: hydrolase Chain: A: PDB Molecule: hydrolase, haloacid dehalogenase-like hydrolase; PDBTitle: divergence of structure and function among phosphatases of the2 haloalkanoate (had) enzyme superfamily

						analysis of bt1666 from3 bacteroides thetaiotaomicron
54	d1t3va_	Alignment	not modelled	21.5	9	Fold: Ribonuclease H-like motif Superfamily: Nitrogenase accessory factor-like Family: MTH1175-like
55	d1o13a_	Alignment	not modelled	21.3	9	Fold: Ribonuclease H-like motif Superfamily: Nitrogenase accessory factor-like Family: MTH1175-like
56	c3izck_	Alignment	not modelled	21.0	26	PDB header: ribosome Chain: K: PDB Molecule: 60s ribosomal protein rpl16 (l13p); PDBTitle: localization of the large subunit ribosomal proteins into a 6.1 a2 cryo-em map of <i>saccharomyces cerevisiae</i> translating 80s ribosome
57	d2nx2a1	Alignment	not modelled	20.6	20	Fold: MCP/YpsA-like Superfamily: MCP/YpsA-like Family: YpsA-like
58	c2q5cA_	Alignment	not modelled	19.0	11	PDB header: transcription Chain: A: PDB Molecule: ntrc family transcriptional regulator; PDBTitle: crystal structure of ntrc family transcriptional regulator from2 clostridium acetobutylicum
59	c2q4dB_	Alignment	not modelled	18.9	19	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: lysine decarboxylase-like protein atSg11950; PDBTitle: ensemble refinement of the crystal structure of a lysine2 decarboxylase-like protein from <i>arabidopsis thaliana</i> gene atSg11950
60	c3f46A_	Alignment	not modelled	18.8	23	PDB header: oxidoreductase Chain: A: PDB Molecule: 5,10-methenyltetrahydromethanopterin hydrogenase; PDBTitle: the crystal structure of c176a mutated [fe]-hydrogenase (hmd)2 holoenzyme from <i>methanocaldococcus jannaschii</i>
61	d1rkqa_	Alignment	not modelled	18.7	26	Fold: HAD-like Superfamily: HAD-like Family: Predicted hydrolases Cof
62	c2q4oA_	Alignment	not modelled	18.7	24	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein at2g37210/l2n18.3; PDBTitle: ensemble refinement of the crystal structure of a lysine2 decarboxylase-like protein from <i>arabidopsis thaliana</i> gene at2g37210
63	d2q4oa1	Alignment	not modelled	18.7	24	Fold: MCP/YpsA-like Superfamily: MCP/YpsA-like Family: MoCo carrier protein-like
64	c3fzqA_	Alignment	not modelled	18.3	12	PDB header: hydrolase Chain: A: PDB Molecule: putative hydrolase; PDBTitle: crystal structure of putative haloacid dehalogenase-like hydrolase2 (yp_001086940.1) from <i>clostridium difficile</i> 630 at 2.10 a resolution
65	d1wzca1	Alignment	not modelled	17.1	15	Fold: HAD-like Superfamily: HAD-like Family: Predicted hydrolases Cof
66	c3l8hC_	Alignment	not modelled	16.5	13	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
67	d1wpga2	Alignment	not modelled	16.0	10	Fold: HAD-like Superfamily: HAD-like Family: Meta-cation ATPase, catalytic domain P
68	d1eola_	Alignment	not modelled	15.9	13	Fold: Ribonuclease H-like motif Superfamily: Nitrogenase accessory factor-like Family: MTH1175-like
69	d1ovma1	Alignment	not modelled	15.4	13	Fold: DHS-like NAD/FAD-binding domain Superfamily: DHS-like NAD/FAD-binding domain Family: Pyruvate oxidase and decarboxylase, middle domain
70	d1ydh_	Alignment	not modelled	15.3	19	Fold: MCP/YpsA-like Superfamily: MCP/YpsA-like Family: MoCo carrier protein-like
71	d1k1ea_	Alignment	not modelled	15.3	13	Fold: HAD-like Superfamily: HAD-like Family: Probable phosphatase Yrb1
72	d1wmaa1	Alignment	not modelled	14.7	29	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Tyrosine-dependent oxidoreductases
73	c3d54D_	Alignment	not modelled	13.7	25	PDB header: ligase Chain: D: PDB Molecule: phosphoribosylformylglycinamide synthase 1; PDBTitle: stucture of purlgs from <i>thermotoga maritima</i>
74	d2bdua1	Alignment	not modelled	13.5	11	Fold: HAD-like Superfamily: HAD-like Family: Pyrimidine 5'-nucleotidase (UMPH-1)
75	c2i55C_	Alignment	not modelled	12.7	14	PDB header: isomerase Chain: C: PDB Molecule: phosphomannomutase; PDBTitle: complex of glucose-1,6-bisphosphate with phosphomannomutase from2 <i>leishmania mexicana</i>
76	d1gzda_	Alignment	not modelled	12.6	9	Fold: SIS domain Superfamily: SIS domain Family: Phosphoglucose isomerase, PGI
77	c3ewiB_	Alignment	not modelled	12.2	8	PDB header: transferase Chain: B: PDB Molecule: n-acetylneuraminate cytidylyltransferase; PDBTitle: structural analysis of the c-terminal domain of murine cmp-2 sialic acid synthetase
						Fold: Dihydrofolate reductase-like

78	d2b3za1	Alignment	not modelled	11.6	13	Superfamily: Dihydrofolate reductase-like Family: RibD C-terminal domain-like
79	d1a9xa3	Alignment	not modelled	11.5	15	Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: BC N-terminal domain-like
80	c3gh1A_	Alignment	not modelled	11.3	30	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: predicted nucleotide-binding protein; PDBTitle: crystal structure of predicted nucleotide-binding protein from vibrio2 cholerae
81	c3jtwB_	Alignment	not modelled	11.1	10	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrofolate reductase; PDBTitle: crystal structure of putative dihydrofolate reductase (yp_805003.1)2 from pediococcus pentosaceus atcc 25745 at 1.90 a resolution
82	d2obba1	Alignment	not modelled	11.1	9	Fold: HAD-like Superfamily: HAD-like Family: BT0820-like
83	d2azna1	Alignment	not modelled	10.7	10	Fold: Dihydrofolate reductase-like Superfamily: Dihydrofolate reductase-like Family: RibD C-terminal domain-like
84	d1n57a_	Alignment	not modelled	10.7	14	Fold: Flavodoxin-like Superfamily: Class I glutamine amidotransferase-like Family: DJ-1/PfpI
85	c3pr3B_	Alignment	not modelled	10.3	18	PDB header: isomerase Chain: B: PDB Molecule: glucose-6-phosphate isomerase; PDBTitle: crystal structure of plasmodium falciparum glucose-6-phosphate2 isomerase (pf14_0341) in complex with fructose-6-phosphate
86	c3rlhA_	Alignment	not modelled	10.0	13	PDB header: hydrolase Chain: B: PDB Molecule: sphingomyelin phosphodiesterase d lisictox-alphaia1a; PDBTitle: crystal structure of a class ii phospholipase d from loxosceles2 intermedia venom
87	d1rdua_	Alignment	not modelled	10.0	8	Fold: Ribonuclease H-like motif Superfamily: Nitrogenase accessory factor-like Family: MTH1175-like
88	d1iata_	Alignment	not modelled	9.9	9	Fold: SIS domain Superfamily: SIS domain Family: Phosphoglucose isomerase, PGI
89	d1l6ra_	Alignment	not modelled	9.7	16	Fold: HAD-like Superfamily: HAD-like Family: Predicted hydrolases Cof
90	c2qtdA_	Alignment	not modelled	9.4	6	PDB header: oxidoreductase Chain: A: PDB Molecule: uncharacterized protein mj0327; PDBTitle: crystal structure of a putative dinitrogenase (mj0327) from 2 methanocaldococcus jannaschii dsm at 1.70 a resolution
91	c2qbuA_	Alignment	not modelled	9.4	17	PDB header: transferase Chain: A: PDB Molecule: precorrin-2 methyltransferase; PDBTitle: crystal structure of methanothermobacter thermautrophicus cbil
92	c3rlgA_	Alignment	not modelled	9.3	17	PDB header: hydrolase Chain: A: PDB Molecule: sphingomyelin phosphodiesterase d lisictox-alphaia1a; PDBTitle: crystal structure of loxosceles intermedia phospholipase d isoform 12 h12a mutant
93	c3k3pA_	Alignment	not modelled	9.2	20	PDB header: ligase Chain: A: PDB Molecule: d-alanine--d-alanine ligase; PDBTitle: crystal structure of the apo form of d-alanine:d-alanine ligase (ddl)2 from streptococcus mutans
94	d1r0ka3	Alignment	not modelled	9.0	10	Fold: FwdE/GAPDH domain-like Superfamily: Glyceraldehyde-3-phosphate dehydrogenase-like, C-terminal domain Family: Dihydrodipicolinate reductase-like
95	c3ujhb_	Alignment	not modelled	8.9	22	PDB header: isomerase Chain: B: PDB Molecule: glucose-6-phosphate isomerase; PDBTitle: crystal structure of substrate-bound glucose-6-phosphate isomerase2 from toxoplasma gondii
96	c2o2cB_	Alignment	not modelled	8.8	18	PDB header: isomerase Chain: B: PDB Molecule: glucose-6-phosphate isomerase, glycosomal; PDBTitle: crystal structure of phosphoglucone isomerase from t. brucei2 containing glucose-6-phosphate in the active site
97	c3nbuC_	Alignment	not modelled	8.6	16	PDB header: isomerase Chain: C: PDB Molecule: glucose-6-phosphate isomerase; PDBTitle: crystal structure of pgi glucosephosphate isomerase
98	c2ekdD_	Alignment	not modelled	8.5	25	PDB header: structural genomics, unknown function Chain: D: PDB Molecule: hypothetical protein ph0250; PDBTitle: structural study of project id ph0250 from pyrococcus horikoshii ot3
99	d1o8ca2	Alignment	not modelled	8.4	16	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Alcohol dehydrogenase-like, C-terminal domain