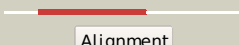

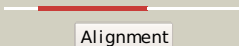

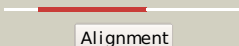

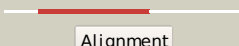



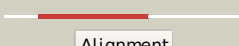

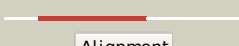











Phyre2

Email	I.a.kelley@imperial.ac.uk
Description	P0A894
Date	Thu Jan 5 11:07:13 GMT 2012
Unique Job ID	6a85e48184a4218c

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3h0kA_	 Alignment		99.3	18	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: upf0200 protein sso1041; PDBTitle: crystal structure of an adenylated kinase related protein from 2 sulfolobus solfataricus to 3.25a
2	c2if2C_	 Alignment		99.3	16	PDB header: transferase Chain: C; PDB Molecule: dephospho-coa kinase; PDBTitle: crystal structure of the putative dephospho-coa kinase from aquifex2 aeolicus, northeast structural genomics target qr72.
3	d1viaa_	 Alignment		99.2	17	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Shikimate kinase (AroK)
4	c1m8pB_	 Alignment		99.1	17	PDB header: transferase Chain: B; PDB Molecule: sulfate adenyllyltransferase; PDBTitle: crystal structure of p. chrysogenum atp sulfurylase in the t-state
5	d2iyva1	 Alignment		99.1	17	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Shikimate kinase (AroK)
6	c3hdtB_	 Alignment		99.1	18	PDB header: structural genomics, unknown function Chain: B; PDB Molecule: putative kinase; PDBTitle: crystal structure of putative kinase from clostridium symbiosum atcc2 14940
7	d1e6ca_	 Alignment		99.0	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Shikimate kinase (AroK)
8	c1zuiA_	 Alignment		99.0	20	PDB header: transferase Chain: A; PDB Molecule: shikimate kinase; PDBTitle: structural basis for shikimate-binding specificity of helicobacter2 pylori shikimate kinase
9	c2vliB_	 Alignment		99.0	16	PDB header: transferase Chain: B; PDB Molecule: antibiotic resistance protein; PDBTitle: structure of deinococcus radiodurans tunicamycin resistance2 protein
10	c3trfB_	 Alignment		99.0	17	PDB header: transferase Chain: B; PDB Molecule: shikimate kinase; PDBTitle: structure of a shikimate kinase (arok) from coxiella burnetii
11	d1jjva_	 Alignment		99.0	21	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases

12	d1q3ta_	Alignment		98.9	21	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
13	c3akcA_	Alignment		98.9	20	PDB header: transferase Chain: A: PDB Molecule: cytidylate kinase; PDBTitle: crystal structure of cmp kinase in complex with cdp and adp from2 thermus thermophilus hb8
14	d1m7ga_	Alignment		98.9	19	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Adenosine-5'phosphosulfate kinase (APS kinase)
15	d2bdta1	Alignment		98.9	20	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Atu3015-like
16	c3fdiA_	Alignment		98.8	15	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of uncharacterized protein from eubacterium2 ventriosum atcc 27560.
17	c2pt5D_	Alignment		98.8	20	PDB header: transferase Chain: D: PDB Molecule: shikimate kinase; PDBTitle: crystal structure of shikimate kinase (aq_2177) from aquifex aeolicus2 vf5
18	c2f6rA_	Alignment		98.8	14	PDB header: transferase Chain: A: PDB Molecule: bifunctional coenzyme a synthase; PDBTitle: crystal structure of bifunctional coenzyme a synthase (coa synthase):2 (18044849) from mus musculus at 1.70 a resolution
19	d1m8pa3	Alignment		98.8	20	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: ATP sulfurylase C-terminal domain
20	d1qhxa_	Alignment		98.8	12	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Chloramphenicol phosphotransferase
21	d1zpa6a1	Alignment	not modelled	98.8	16	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Atu3015-like
22	d1vhta_	Alignment	not modelled	98.8	22	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
23	d1m7gb_	Alignment	not modelled	98.8	14	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Adenosine-5'phosphosulfate kinase (APS kinase)
24	c2yvua_	Alignment	not modelled	98.8	17	PDB header: transferase Chain: A: PDB Molecule: probable adenyl-sulfate kinase; PDBTitle: crystal structure of ape1195
25	c1xnbB_	Alignment	not modelled	98.8	23	PDB header: transferase Chain: B: PDB Molecule: bifunctional 3'-phosphoadenosine 5'-phosphosulfate PDBTitle: aps complex of human paps synthetase 1
26	c2gksB_	Alignment	not modelled	98.8	19	PDB header: transferase Chain: B: PDB Molecule: bifunctional sat/aps kinase; PDBTitle: crystal structure of the bi-functional atp sulfurylase-aps kinase from2 aquifex aeolicus, a chemolithotrophic thermophile
27	d1ckea_	Alignment	not modelled	98.8	19	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
28	d1kaga_	Alignment	not modelled	98.7	17	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Shikimate kinase (AroK) PDB header: transferase

29	c3nwjB	Alignment	not modelled	98.7	17	Chain: B; PDB Molecule: atsk2; PDBTitle: crystal structure of shikimate kinase from arabidopsis thaliana2 (atsk2)
30	d1y63a	Alignment	not modelled	98.7	12	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
31	d2cdna1	Alignment	not modelled	98.7	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
32	c2xb4A	Alignment	not modelled	98.6	16	PDB header: transferase Chain: A; PDB Molecule: adenylate kinase; PDBTitle: crystal structures of zinc containing adenylate kinase from2 desulfovibrio gigas
33	d1knqa	Alignment	not modelled	98.6	14	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Gluconate kinase
34	c2h92C	Alignment	not modelled	98.6	15	PDB header: transferase Chain: C; PDB Molecule: cytidylate kinase; PDBTitle: crystal structure of staphylococcus aureus cytidine2 monophosphate kinase in complex with cytidine-5'-3 monophosphate
35	d1rkba	Alignment	not modelled	98.6	16	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
36	d1ak2a1	Alignment	not modelled	98.5	14	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
37	d1uf9a	Alignment	not modelled	98.5	22	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
38	c2rhmd	Alignment	not modelled	98.5	17	PDB header: unknown function Chain: D; PDB Molecule: putative kinase; PDBTitle: crystal structure of a putative kinase (caur_3907) from chloroflexus2 aurantiacus j-10-fl at 1.70 a resolution
39	d1p3ja1	Alignment	not modelled	98.5	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
40	c3r8cB	Alignment	not modelled	98.4	29	PDB header: transferase Chain: B; PDB Molecule: cytidylate kinase; PDBTitle: crystal structure of cytidylate kinase (cmk) from mycobacterium2 abscessus
41	d1s3ga1	Alignment	not modelled	98.4	16	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
42	c3t61A	Alignment	not modelled	98.4	22	PDB header: transferase Chain: A; PDB Molecule: gluconokinase; PDBTitle: crystal structure of a gluconokinase from sinorhizobium meliloti 1021
43	d1nk5a	Alignment	not modelled	98.4	18	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
44	d1lukza	Alignment	not modelled	98.3	18	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
45	d1yj5a2	Alignment	not modelled	98.3	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
46	c2eu8B	Alignment	not modelled	98.3	17	PDB header: transferase Chain: B; PDB Molecule: adenylate kinase; PDBTitle: crystal structure of a thermostable mutant of bacillus2 subtilis adenylate kinase (q199r)
47	c2ar7A	Alignment	not modelled	98.3	17	PDB header: transferase Chain: A; PDB Molecule: adenylate kinase 4; PDBTitle: crystal structure of human adenylate kinase 4, ak4
48	d1qf9a	Alignment	not modelled	98.3	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
49	d3adka	Alignment	not modelled	98.3	21	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
50	c3cm0A	Alignment	not modelled	98.3	22	PDB header: transferase Chain: A; PDB Molecule: adenylate kinase; PDBTitle: crystal structure of adenylate kinase from thermophilus hb8
51	d1uj2a	Alignment	not modelled	98.3	24	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Phosphoribulokinase/pantothenate kinase
52	d1e4va1	Alignment	not modelled	98.3	14	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
53	c2plrB	Alignment	not modelled	98.3	17	PDB header: transferase Chain: B; PDB Molecule: probable thymidylate kinase; PDBTitle: crystal structure of dtmp kinase (st1543) from sulfobolus tokodaii2 strain7
54	c1s3gA	Alignment	not modelled	98.2	16	PDB header: transferase Chain: A; PDB Molecule: adenylate kinase; PDBTitle: crystal structure of adenylate kinase from bacillus2

						globisporus
55	c2ccjA_	Alignment	not modelled	98.2	11	PDB header: transferase Chain: A: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of s. aureus thymidylate kinase complexed2 with thymidine monophosphate
56	d4tmka_	Alignment	not modelled	98.2	16	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
57	c2pbrB_	Alignment	not modelled	98.2	20	PDB header: transferase Chain: B: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of thymidylate kinase (aq_969) from aquifex aeolicus2 vf5
58	c2grjH_	Alignment	not modelled	98.2	24	PDB header: transferase Chain: H: PDB Molecule: dephospho-coa kinase; PDBTitle: crystal structure of dephospho-coa kinase (ec 2.7.1.24)2 (dephosphocoenzyme a kinase) (tm1387) from thermotoga maritima at3 2.60 a resolution
59	d1zina1	Alignment	not modelled	98.2	16	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
60	c2z0hA_	Alignment	not modelled	98.2	15	PDB header: transferase Chain: A: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of thymidylate kinase in complex with dtdp2 and adp from thermotoga maritima
61	c2bwiC_	Alignment	not modelled	98.2	17	PDB header: transferase Chain: C: PDB Molecule: adenylate kinase 5; PDBTitle: structure of adenylate kinase 5
62	c1ueiB_	Alignment	not modelled	98.2	22	PDB header: transferase Chain: B: PDB Molecule: uridine-cytidine kinase 2; PDBTitle: crystal structure of human uridine-cytidine kinase 22 complexed with a feedback-inhibitor, utp
63	c2jatA_	Alignment	not modelled	98.2	16	PDB header: transferase Chain: A: PDB Molecule: deoxyguanosine kinase; PDBTitle: structure of deoxyadenosine kinase from m.mycoides with2 products dcmp and a flexible dcdp bound
64	c3cr8C_	Alignment	not modelled	98.2	20	PDB header: transferase Chain: C: PDB Molecule: sulfate adenyltranferase, adenylsulfate PDBTitle: hexameric aps kinase from thiobacillus denitrificans
65	c2ql6H_	Alignment	not modelled	98.1	17	PDB header: signaling protein,transferase Chain: H: PDB Molecule: nicotinamide riboside kinase 1; PDBTitle: human nicotinamide riboside kinase (nrk1)
66	c3asyB_	Alignment	not modelled	98.1	24	PDB header: transferase Chain: B: PDB Molecule: uridine kinase; PDBTitle: ligand-free structure of uridine kinase from thermus thermophilus hb8
67	c1ly1A_	Alignment	not modelled	98.1	16	PDB header: transferase Chain: A: PDB Molecule: polynucleotide kinase; PDBTitle: structure and mechanism of t4 polynucleotide kinase
68	d1ly1a_	Alignment	not modelled	98.1	16	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
69	d1khta_	Alignment	not modelled	98.1	13	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
70	c3ch4B_	Alignment	not modelled	98.1	22	PDB header: transferase Chain: B: PDB Molecule: phosphomevalonate kinase; PDBTitle: the crystal structure of human phosphomevalonate kinase at2 1.8 a resolution
71	d1teva_	Alignment	not modelled	98.1	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
72	d1x6va3	Alignment	not modelled	98.0	20	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Adenosine-5' phosphosulfate kinase (APS kinase)
73	c1znyA_	Alignment	not modelled	98.0	14	PDB header: transferase Chain: A: PDB Molecule: guanylate kinase; PDBTitle: crystal structure of mycobacterium tuberculosis guanylate kinase in2 complex with gdp
74	c2ia5C_	Alignment	not modelled	98.0	14	PDB header: transferase Chain: C: PDB Molecule: polynucleotide kinase; PDBTitle: t4 polynucleotide kinase/phosphatase with bound sulfate and2 magnesium.
75	d1akya1	Alignment	not modelled	98.0	10	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
76	c2ak3B_	Alignment	not modelled	98.0	14	PDB header: transferase (phosphotransferase) Chain: B: PDB Molecule: adenylate kinase isoenzyme-3; PDBTitle: the three-dimensional structure of the complex between2 mitochondrial matrix adenylate kinase and its substrate3 amp at 1.85 angstroms resolution
77	c3gmtB_	Alignment	not modelled	97.9	24	PDB header: transferase Chain: B: PDB Molecule: adenylate kinase; PDBTitle: crystal structure of adenylate kinase from burkholderia pseudomallei
78	d1gkya_	Alignment	not modelled	97.9	19	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
79	c3akyA_	Alignment	not modelled	97.9	16	PDB header: adenylate kinase Chain: A: PDB Molecule: adenylate kinase; PDBTitle: stability, activity and structure of adenylate kinase2 mutants Fold: P-loop containing nucleoside triphosphate hydrolases

80	d1tmka_	Alignment	not modelled	97.9	14	Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
81	d1zaka1	Alignment	not modelled	97.9	11	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
82	c1ankA	Alignment	not modelled	97.9	20	PDB header: transferase(phosphotransferase) Chain: A: PDB Molecule: adenylate kinase; PDBTitle: the closed conformation of a highly flexible protein: the2 structure of e. coli adenylate kinase with bound amp and3 amppnp
83	c2qorA	Alignment	not modelled	97.8	23	PDB header: transferase Chain: A: PDB Molecule: guanylate kinase; PDBTitle: crystal structure of plasmodium vivax guanylate kinase
84	d1bifa1	Alignment	not modelled	97.8	13	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase, kinase domain
85	c3tr0A	Alignment	not modelled	97.8	17	PDB header: transferase Chain: A: PDB Molecule: guanylate kinase; PDBTitle: structure of guanylate kinase (gmk) from coxiella burnetii
86	c3be4A	Alignment	not modelled	97.7	14	PDB header: transferase Chain: A: PDB Molecule: adenylate kinase; PDBTitle: crystal structure of cryptosporidium parvum adenylate kinase cgd5_3360
87	d1ki9a_	Alignment	not modelled	97.7	13	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
88	c2w0sB_	Alignment	not modelled	97.7	13	PDB header: transferase Chain: B: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of vaccinia virus thymidylate kinase2 bound to bri vudin-5'-monophosphate
89	c2ak2A	Alignment	not modelled	97.7	12	PDB header: phosphotransferase Chain: A: PDB Molecule: adenylate kinase isoenzyme-2; PDBTitle: adenylate kinase isoenzyme-2
90	d1lvga_	Alignment	not modelled	97.6	20	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
91	c1k6mA	Alignment	not modelled	97.6	17	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
92	c1bifA	Alignment	not modelled	97.6	17	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 bifunctional2 enzyme complexed with atp-g-s and phosphate
93	d2ak3a1	Alignment	not modelled	97.6	13	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
94	d1k6ma1	Alignment	not modelled	97.6	13	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase, kinase domain
95	d1s96a_	Alignment	not modelled	97.6	19	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
96	c3lv8A_	Alignment	not modelled	97.6	20	PDB header: transferase Chain: A: PDB Molecule: thymidylate kinase; PDBTitle: 1.8 angstrom resolution crystal structure of a thymidylate kinase2 (tmk) from vibrio cholerae o1 biovar eltor str. n16961 in complex3 with tmp, thymidine-5'-diphosphate and adp
97	d1znwa1	Alignment	not modelled	97.5	13	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
98	c3tlxA_	Alignment	not modelled	97.5	15	PDB header: transferase Chain: A: PDB Molecule: adenylate kinase 2; PDBTitle: crystal structure of pf10_0086, adenylate kinase from plasmodium2 falciparum
99	d1gsia_	Alignment	not modelled	97.5	17	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
100	c2vp4D_	Alignment	not modelled	97.5	15	PDB header: transferase Chain: D: PDB Molecule: deoxynucleoside kinase; PDBTitle: structural studies of nucleoside analog and feedback2 inhibitor binding to drosophila melanogaster3 multisubstrate deoxyri bonucleoside kinase
101	c3zvmA	Alignment	not modelled	97.5	14	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
102	d1g8fa3	Alignment	not modelled	97.5	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: ATP sulfurylase C-terminal domain
103	c2rh5B_	Alignment	not modelled	97.5	17	PDB header: transferase Chain: B: PDB Molecule: adenylate kinase; PDBTitle: structure of apo adenylate kinase from aquifex aeolicus
104	c1z6gA	Alignment	not modelled	97.5	12	PDB header: transferase Chain: A: PDB Molecule: guanylate kinase; PDBTitle: crystal structure of guanylate kinase from plasmodium

						falci parum
105	c1yj5B_	Alignment	not modelled	97.5	17	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
106	d2vp4a1	Alignment	not modelled	97.4	18	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
107	d2ocpa1	Alignment	not modelled	97.4	19	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
108	c3a4mB_	Alignment	not modelled	97.3	21	PDB header: transferase Chain: B: PDB Molecule: l-seryl-trna(sec) kinase; PDBTitle: crystal structure of archaeal o-phosphoseryl-trna(sec)2 kinase
109	c3c8uA_	Alignment	not modelled	97.3	20	PDB header: transferase Chain: A: PDB Molecule: fructokinase; PDBTitle: crystal structure of putative fructose transport system kinase2 (yp_612366.1) from silicibacter sp. tm1040 at 1.95 a resolution
110	d1kgda_	Alignment	not modelled	97.3	22	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
111	d1p5zb_	Alignment	not modelled	97.3	13	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
112	c2i1vB_	Alignment	not modelled	96.8	18	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
113	d1deka_	Alignment	not modelled	96.8	23	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
114	c3ld9D_	Alignment	not modelled	96.7	17	PDB header: transferase Chain: D: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of thymidylate kinase from ehrlichia chaffeensis at2 2.15a resolution
115	c2p5tD_	Alignment	not modelled	96.7	15	PDB header: transcription regulator Chain: D: PDB Molecule: pez2; PDBTitle: molecular and structural characterization of the pezat chromosomal2 toxin-antitoxin system of the human pathogen streptococcus pneumoniae
116	d1lw7a2	Alignment	not modelled	96.5	18	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
117	c3pihA_	Alignment	not modelled	96.4	39	PDB header: hydrolase/dna Chain: A: PDB Molecule: uvrabc system protein a; PDBTitle: t. maritima uvra in complex with fluorescein-modified dna
118	c2wwiC_	Alignment	not modelled	96.2	27	PDB header: transferase Chain: C: PDB Molecule: thymidylate kinase, putative; PDBTitle: plasmodium falci parum thymidylate kinase in complex with2 aztmp and adp
119	d1nn5a_	Alignment	not modelled	96.1	33	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
120	c1zakB_	Alignment	not modelled	96.1	18	PDB header: transferase Chain: B: PDB Molecule: adenylate kinase; PDBTitle: adenylate kinase from maize in complex with the inhibitor2 p1,p5-bis(adenosine-5')-pentaphosphate (ap5a)