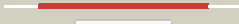



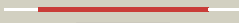



















# Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2539c_aroK_2862683_2863213
Date	Wed Aug 7 12:50:17 BST 2019
Unique Job ID	5d2dfaef26819606

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">d2iyva1</a>	 Alignment		100.0	100	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Shikimate kinase (AroK)
2	<a href="#">c4y0aA</a>	 Alignment		99.9	36	<b>PDB header:</b> transferase/transferase inhibitor <b>Chain:</b> A: <b>PDB Molecule:</b> shikimate kinase; <b>PDBTitle:</b> shikimate kinase from acinetobacter baumannii in complex with2 shikimate
3	<a href="#">d1e6ca</a>	 Alignment		99.9	32	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Shikimate kinase (AroK)
4	<a href="#">d1viaa</a>	 Alignment		99.9	25	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Shikimate kinase (AroK)
5	<a href="#">c3trfB</a>	 Alignment		99.9	34	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> shikimate kinase; <b>PDBTitle:</b> structure of a shikimate kinase (aroK) from coxiella burnetii
6	<a href="#">c1zuiA</a>	 Alignment		99.9	28	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> shikimate kinase; <b>PDBTitle:</b> structural basis for shikimate-binding specificity of helicobacter2 pylori shikimate kinase
7	<a href="#">c3vaaC</a>	 Alignment		99.9	25	<b>PDB header:</b> transferase <b>Chain:</b> C: <b>PDB Molecule:</b> shikimate kinase; <b>PDBTitle:</b> 1.7 angstrom resolution crystal structure of shikimate kinase from2 bacteroides thetaiotaomicron
8	<a href="#">d1kaga</a>	 Alignment		99.9	37	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Shikimate kinase (AroK)
9	<a href="#">c2pt5D</a>	 Alignment		99.9	30	<b>PDB header:</b> transferase <b>Chain:</b> D: <b>PDB Molecule:</b> shikimate kinase; <b>PDBTitle:</b> crystal structure of shikimate kinase (aq_2177) from aquifex aeolicus2 vf5
10	<a href="#">c3t61A</a>	 Alignment		99.8	17	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> gluconokinase; <b>PDBTitle:</b> crystal structure of a gluconokinase from sinorhizobium meliloti 1021
11	<a href="#">c3nwjB</a>	 Alignment		99.8	26	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> atsk2; <b>PDBTitle:</b> crystal structure of shikimate kinase from arabidopsis thaliana2 (atsk2)

12	<a href="#">c4cw7A_</a>	Alignment		99.8	19	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> putative adenylate kinase; <b>PDBTitle:</b> structure of the fap7-rps14 complex in complex with atp
13	<a href="#">c3akcA_</a>	Alignment		99.8	24	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> cytidylate kinase; <b>PDBTitle:</b> crystal structure of cmp kinase in complex with cdp and adp from2 thermus thermophilus hb8
14	<a href="#">d1ckeA_</a>	Alignment		99.8	17	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
15	<a href="#">c3hdtB_</a>	Alignment		99.8	14	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> B: <b>PDB Molecule:</b> putative kinase; <b>PDBTitle:</b> crystal structure of putative kinase from clostridium symbiosum atcc2 14940
16	<a href="#">c4eunA_</a>	Alignment		99.8	18	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> thermostable glucokinase; <b>PDBTitle:</b> crystal structure of a sugar kinase (target efi-502144 from janibacter2 sp. htcc2649), unliganded structure
17	<a href="#">d1q3ta_</a>	Alignment		99.8	22	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
18	<a href="#">d1knqa_</a>	Alignment		99.8	15	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Gluconate kinase
19	<a href="#">d1rkba_</a>	Alignment		99.8	17	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
20	<a href="#">c3fdiA_</a>	Alignment		99.8	11	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of uncharacterized protein from eubacterium2 ventriosum atcc 27560.
21	<a href="#">c2viiB_</a>	Alignment	not modelled	99.8	11	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> antibiotic resistance protein; <b>PDBTitle:</b> structure of deinococcus radiodurans tunicamycin resistance protein
22	<a href="#">c2gksB_</a>	Alignment	not modelled	99.7	18	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> bifunctional sat/aps kinase; <b>PDBTitle:</b> crystal structure of the bi-functional atp sulfurylase-aps kinase from2 aquifex aeolicus, a chemolithotrophic thermophile
23	<a href="#">d2bdta1</a>	Alignment	not modelled	99.7	16	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Atu3015-like
24	<a href="#">c3umfA_</a>	Alignment	not modelled	99.7	12	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> schistosoma mansoni adenylate kinase
25	<a href="#">c2yvua_</a>	Alignment	not modelled	99.7	19	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> probable adenylyl-sulfate kinase; <b>PDBTitle:</b> crystal structure of ape1195
26	<a href="#">c3r8cB_</a>	Alignment	not modelled	99.7	23	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> cytidylate kinase; <b>PDBTitle:</b> crystal structure of cytidylate kinase (cmk) from mycobacterium2 abscessus
27	<a href="#">d1m8pa3</a>	Alignment	not modelled	99.7	14	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> ATP sulfurylase C-terminal domain
28	<a href="#">d1qhxa_</a>	Alignment	not modelled	99.7	18	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Chloramphenicol phosphotransferase
29	<a href="#">c2h92C_</a>	Alignment	not modelled	99.7	21	<b>PDB header:</b> transferase <b>Chain:</b> C: <b>PDB Molecule:</b> cytidylate kinase;

29	<a href="#">c21p2C_</a>	Alignment	not modelled	99.7	41	<b>PDBTitle:</b> crystal structure of staphylococcus aureus cytidine2 monophosphate kinase in complex with cytidine-5'-3 monophosphate
30	<a href="#">c2bwjC_</a>	Alignment	not modelled	99.7	18	<b>PDB header:</b> transferase <b>Chain:</b> C: <b>PDB Molecule:</b> adenylate kinase 5; <b>PDBTitle:</b> structure of adenylate kinase 5
31	<a href="#">d1zp6a1</a>	Alignment	not modelled	99.7	18	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Atu3015-like
32	<a href="#">c2rhmD_</a>	Alignment	not modelled	99.7	14	<b>PDB header:</b> unknown function <b>Chain:</b> D: <b>PDB Molecule:</b> putative kinase; <b>PDBTitle:</b> crystal structure of a putative kinase (caur_3907) from chloroflexus2 aurantiacus j-10-fl at 1.70 a resolution
33	<a href="#">c3cm0A_</a>	Alignment	not modelled	99.7	19	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> crystal structure of adenylate kinase from thermus2 thermophilus hb8
34	<a href="#">c1m8pB_</a>	Alignment	not modelled	99.7	18	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> sulfate adenylyltransferase; <b>PDBTitle:</b> crystal structure of p. chrysoygenum atp sulfurylase in the t-state
35	<a href="#">d1m7gb_</a>	Alignment	not modelled	99.7	16	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Adenosine-5'phosphosulfate kinase (APS kinase)
36	<a href="#">d1y63a_</a>	Alignment	not modelled	99.7	13	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
37	<a href="#">c2if2C_</a>	Alignment	not modelled	99.7	13	<b>PDB header:</b> transferase <b>Chain:</b> C: <b>PDB Molecule:</b> dephospho-coa kinase; <b>PDBTitle:</b> crystal structure of the putative dephospho-coa kinase from aquifex2 aeolicus, northeast structural genomics target qr72.
38	<a href="#">d3adka_</a>	Alignment	not modelled	99.7	17	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
39	<a href="#">c2xb4A_</a>	Alignment	not modelled	99.7	14	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> crystal structures of zinc containing adenylate kinase from2 desulfovibrio gigas
40	<a href="#">c5cb6A_</a>	Alignment	not modelled	99.7	17	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> probable adenylyl-sulfate kinase; <b>PDBTitle:</b> structure of adenosine-5'-phosphosulfate kinase
41	<a href="#">d2cdna1</a>	Alignment	not modelled	99.7	20	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
42	<a href="#">c2ar7A_</a>	Alignment	not modelled	99.7	18	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase 4; <b>PDBTitle:</b> crystal structure of human adenylate kinase 4, ak4
43	<a href="#">d1lukza_</a>	Alignment	not modelled	99.7	11	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
44	<a href="#">d1e4va1</a>	Alignment	not modelled	99.7	16	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
45	<a href="#">d1jiva_</a>	Alignment	not modelled	99.7	16	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
46	<a href="#">d1zaka1</a>	Alignment	not modelled	99.7	14	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
47	<a href="#">d1p3ja1</a>	Alignment	not modelled	99.6	16	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
48	<a href="#">d1ak2a1</a>	Alignment	not modelled	99.6	19	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
49	<a href="#">c3akyA_</a>	Alignment	not modelled	99.6	19	<b>PDB header:</b> adenylate kinase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> stability, activity and structure of adenylate kinase2 mutants
50	<a href="#">c2ql6H_</a>	Alignment	not modelled	99.6	13	<b>PDB header:</b> signaling protein,transferase <b>Chain:</b> H: <b>PDB Molecule:</b> nicotinamide riboside kinase 1; <b>PDBTitle:</b> human nicotinamide riboside kinase (nrk1)
51	<a href="#">d1khta_</a>	Alignment	not modelled	99.6	11	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
52	<a href="#">d1teva_</a>	Alignment	not modelled	99.6	14	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
53	<a href="#">c3h0kA_</a>	Alignment	not modelled	99.6	14	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> upf0200 protein sso1041; <b>PDBTitle:</b> crystal structure of an adenylated kinase related protein from2 sulfolobus solfataricus to 3.25a
54	<a href="#">c3be4A_</a>	Alignment	not modelled	99.6	20	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> crystal structure of cryptosporidium parvum adenylate kinase cgd5_3360
55	<a href="#">d1qf9a_</a>	Alignment	not modelled	99.6	11	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
56	<a href="#">d1akya1</a>	Alignment	not modelled	99.6	18	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases

				Family:Nucleotide and nucleoside kinases		
57	<a href="#">c5uivA</a>	Alignment	not modelled	99.6	14	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> bifunctional thymidylate/uridylate kinase; <b>PDBTitle:</b> structure of thymidylate kinase from candida albicans reveals origin2 of broad substrate specificity and a novel structural element.
58	<a href="#">d1s3ga1</a>	Alignment	not modelled	99.6	17	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
59	<a href="#">c2ak3B</a>	Alignment	not modelled	99.6	17	<b>PDB header:</b> transferase (phosphotransferase) <b>Chain:</b> B: <b>PDB Molecule:</b> adenylate kinase isoenzyme-3; <b>PDBTitle:</b> the three-dimensional structure of the complex between2 mitochondrial matrix adenylate kinase and its substrate3 amp at 1.85 angstroms resolution
60	<a href="#">c2plrB</a>	Alignment	not modelled	99.6	16	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> probable thymidylate kinase; <b>PDBTitle:</b> crystal structure of dtmp kinase (st1543) from sulfolobus tokodaii2 strain7
61	<a href="#">c2grjH</a>	Alignment	not modelled	99.6	14	<b>PDB header:</b> transferase <b>Chain:</b> H: <b>PDB Molecule:</b> dephospho-coa kinase; <b>PDBTitle:</b> crystal structure of dephospho-coa kinase (ec 2.7.1.24)2 (dephosphocoenzyme a kinase) (tm1387) from thermotoga maritima at3 2.60 a resolution
62	<a href="#">c3tlxA</a>	Alignment	not modelled	99.6	16	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase 2; <b>PDBTitle:</b> crystal structure of pf10_0086, adenylate kinase from plasmodium2 falciparum
63	<a href="#">c4dwjB</a>	Alignment	not modelled	99.6	19	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> thymidylate kinase; <b>PDBTitle:</b> crystal structure of thymidylate kinase from staphylococcus aureus in2 complex with thymidine monophosphate
64	<a href="#">d1zina1</a>	Alignment	not modelled	99.6	17	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
65	<a href="#">c1xnjB</a>	Alignment	not modelled	99.6	19	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> bifunctional 3'-phosphoadenosine 5'-phosphosulfate <b>PDBTitle:</b> aps complex of human paps synthetase 1
66	<a href="#">d1m7ga</a>	Alignment	not modelled	99.6	18	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Adenosine-5'phosphosulfate kinase (APS kinase)
67	<a href="#">c4pzc</a>	Alignment	not modelled	99.6	20	<b>PDB header:</b> transferase <b>Chain:</b> C: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> the crystal structure of adenylate kinase from francisella tularensis2 subsp. tularensis schu s4
68	<a href="#">c2rh5B</a>	Alignment	not modelled	99.6	25	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> structure of apo adenylate kinase from aquifex aeolicus
69	<a href="#">c3uieB</a>	Alignment	not modelled	99.6	12	<b>PDB header:</b> transferase/transferase inhibitor <b>Chain:</b> B: <b>PDB Molecule:</b> adenyl-lyl-sulfate kinase 1, chloroplastic; <b>PDBTitle:</b> crystal structure of adenosine 5'-phosphosulfate kinase from2 arabidopsis thaliana in complex with amppnp and aps
70	<a href="#">d2ak3a1</a>	Alignment	not modelled	99.6	17	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
71	<a href="#">c5g3yA</a>	Alignment	not modelled	99.6	16	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> crystal structure of adenylate kinase ancestor 1 with zn and adp bound
72	<a href="#">c4bzbB</a>	Alignment	not modelled	99.6	16	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> bifunctional enzyme cysn/cysc; <b>PDBTitle:</b> structure of the mycobacterium tuberculosis aps kinase cysc2 in complex with adp
73	<a href="#">d1vhTA</a>	Alignment	not modelled	99.6	18	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
74	<a href="#">d1ki9a</a>	Alignment	not modelled	99.6	14	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
75	<a href="#">c2ccjA</a>	Alignment	not modelled	99.6	21	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> thymidylate kinase; <b>PDBTitle:</b> crystal structure of s. aureus thymidylate kinase complexed2 with thymidine monophosphate
76	<a href="#">d1x6va3</a>	Alignment	not modelled	99.6	19	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Adenosine-5'phosphosulfate kinase (APS kinase)
77	<a href="#">c1s3gA</a>	Alignment	not modelled	99.6	20	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> crystal structure of adenylate kinase from bacillus2 globisporus
78	<a href="#">c4i1vB</a>	Alignment	not modelled	99.6	22	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> dephospho-coa kinase; <b>PDBTitle:</b> crystal structure of a dephospho-coa kinase from burkholderia2 vietnamiensis bound to adp
79	<a href="#">c2eu8B</a>	Alignment	not modelled	99.6	19	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> crystal structure of a thermostable mutant of bacillus2 subtilis adenylate kinase (q199r)
80	<a href="#">c4ttrA</a>	Alignment	not modelled	99.6	14	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> dephospho-coa kinase; <b>PDBTitle:</b> crystal structure of legionella pneumophila dephospho-coa kinase in2 complex with bu2
81	<a href="#">c2ia5C</a>	Alignment	not modelled	99.6	15	<b>PDB header:</b> transferase <b>Chain:</b> C: <b>PDB Molecule:</b> polynucleotide kinase; <b>PDBTitle:</b> t4 polynucleotide kinase/phosphatase with bound sulfate and magnesium. <b>PDB header:</b> rna binding protein

82	<a href="#">c6qp0A</a>	Alignment	not modelled	99.6	17	<b>Chain:</b> A: <b>PDB Molecule:</b> putative chromatin binding protein; <b>PDBTitle:</b> crystal structure of chaetomium thermophilum kti12 in complex with2 adp-alf3
83	<a href="#">c4zo4A</a>	Alignment	not modelled	99.5	15	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> dephospho-coa kinase; <b>PDBTitle:</b> dephospho-coa kinase from campylobacter jejuni.
84	<a href="#">c4nu0B</a>	Alignment	not modelled	99.5	14	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> crystal structure of adenylate kinase from streptococcus pneumoniae2 with ap5a
85	<a href="#">c2z0hA</a>	Alignment	not modelled	99.5	15	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> thymidylate kinase; <b>PDBTitle:</b> crystal structure of thymidylate kinase in complex with dtdp2 and adp from thermotoga maritima
86	<a href="#">c1znyA</a>	Alignment	not modelled	99.5	22	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> guanylate kinase; <b>PDBTitle:</b> crystal structure of mycobacterium tuberculosis guanylate kinase in2 complex with gdp
87	<a href="#">d1nksa</a>	Alignment	not modelled	99.5	12	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
88	<a href="#">d1uf9a</a>	Alignment	not modelled	99.5	17	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
89	<a href="#">d1gkya</a>	Alignment	not modelled	99.5	14	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
90	<a href="#">c5x7jA</a>	Alignment	not modelled	99.5	22	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> thymidylate kinase; <b>PDBTitle:</b> crystal structure of thymidylate kinase from thermus thermophilus hb8
91	<a href="#">d1znwa1</a>	Alignment	not modelled	99.5	23	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
92	<a href="#">c2jatA</a>	Alignment	not modelled	99.5	16	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> deoxyguanosine kinase; <b>PDBTitle:</b> structure of deoxyadenosine kinase from m.mycoides with2 products dcmp and a flexible dcdp bound
93	<a href="#">c6b8vA</a>	Alignment	not modelled	99.5	16	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylsulfate kinase; <b>PDBTitle:</b> crystal structure of adenyl-sulfate kinase from cryptococcus2 neoformans
94	<a href="#">d4tmka</a>	Alignment	not modelled	99.5	21	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
95	<a href="#">c3cr8C</a>	Alignment	not modelled	99.5	25	<b>PDB header:</b> transferase <b>Chain:</b> C: <b>PDB Molecule:</b> sulfate adenyltransferase, adenylsulfate kinase; <b>PDBTitle:</b> hexameric aps kinase from thiobacillus denitrificans
96	<a href="#">c3asyB</a>	Alignment	not modelled	99.5	16	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> uridine kinase; <b>PDBTitle:</b> ligand-free structure of uridine kinase from thermus thermophilus hb8
97	<a href="#">c4xrpA</a>	Alignment	not modelled	99.5	19	<b>PDB header:</b> protein binding <b>Chain:</b> A: <b>PDB Molecule:</b> pnkp1; <b>PDBTitle:</b> structure of the pnkp1/rnl/hen1 rna repair complex
98	<a href="#">c2pbrB</a>	Alignment	not modelled	99.5	16	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> thymidylate kinase; <b>PDBTitle:</b> crystal structure of thymidylate kinase (aq_969) from aquifex aeolicus2 vf5
99	<a href="#">c2ak2A</a>	Alignment	not modelled	99.5	21	<b>PDB header:</b> phosphotransferase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase isoenzyme-2; <b>PDBTitle:</b> adenylate kinase isoenzyme-2
100	<a href="#">c3lv8A</a>	Alignment	not modelled	99.5	23	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> thymidylate kinase; <b>PDBTitle:</b> 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
101	<a href="#">d1tmka</a>	Alignment	not modelled	99.5	14	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
102	<a href="#">c1ankA</a>	Alignment	not modelled	99.5	19	<b>PDB header:</b> transferase(phosphotransferase) <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> the closed conformation of a highly flexible protein: the structure of2 e. coli adenylate kinase with bound amp and amppnp
103	<a href="#">c2wwiC</a>	Alignment	not modelled	99.5	19	<b>PDB header:</b> transferase <b>Chain:</b> C: <b>PDB Molecule:</b> thymidilate kinase, putative; <b>PDBTitle:</b> plasmodium falciparum thymidylate kinase in complex with2 aztmp and adp
104	<a href="#">c2f6rA</a>	Alignment	not modelled	99.5	18	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> bifunctional coenzyme a synthase; <b>PDBTitle:</b> crystal structure of bifunctional coenzyme a synthase (coa synthase):2 (18044849) from mus musculus at 1.70 a resolution
105	<a href="#">c3tr0A</a>	Alignment	not modelled	99.5	20	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> guanylate kinase; <b>PDBTitle:</b> structure of guanylate kinase (gmk) from coxiella burnetii
106	<a href="#">c6n39A</a>	Alignment	not modelled	99.5	18	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> dephospho-coa kinase; <b>PDBTitle:</b> crystal structure of an dephospho-coa kinase coae from mycobacterium2 paratuberculosis
107	<a href="#">c1zakB</a>	Alignment	not modelled	99.5	15	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> adenylate kinase from maize in complex with the inhibitor2 p1,p5-bis(adenosine-5'-)pentaphosphate (ap5a)
108	<a href="#">c3gmtB</a>	Alignment	not modelled	99.4	15	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> adenylate kinase;

108	<a href="#">c9gntb_</a>	Alignment	not modelled	99.4	10	<b>PDBTitle:</b> crystal structure of adenylate kinase from burkholderia pseudomallei
109	<a href="#">d1uj2a_</a>	Alignment	not modelled	99.4	11	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Phosphoribulokinase/pantothenate kinase
110	<a href="#">d1ly1a_</a>	Alignment	not modelled	99.4	16	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
111	<a href="#">c1ly1A_</a>	Alignment	not modelled	99.4	16	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> polynucleotide kinase; <b>PDBTitle:</b> structure and mechanism of t4 polynucleotide kinase
112	<a href="#">c1xjqA_</a>	Alignment	not modelled	99.4	22	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> bifunctional 3'-phosphoadenosine 5'-phosphosulfate <b>PDBTitle:</b> adp complex of human paps synthetase 1
113	<a href="#">d1p5zb_</a>	Alignment	not modelled	99.4	12	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
114	<a href="#">d1nn5a_</a>	Alignment	not modelled	99.4	17	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
115	<a href="#">c2qorA_</a>	Alignment	not modelled	99.4	10	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> guanylate kinase; <b>PDBTitle:</b> crystal structure of plasmodium vivax guanylate kinase
116	<a href="#">d1yj5a2</a>	Alignment	not modelled	99.4	16	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
117	<a href="#">c3crqA_</a>	Alignment	not modelled	99.4	21	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> trna delta(2)-isopentenylpyrophosphate <b>PDBTitle:</b> structure of trna dimethylallyltransferase: rna2 modification through a channel
118	<a href="#">c1ueiB_</a>	Alignment	not modelled	99.4	11	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> uridine-cytidine kinase 2; <b>PDBTitle:</b> crystal structure of human uridine-cytidine kinase 22 complexed with a feedback-inhibitor, utp
119	<a href="#">d2ocpa1</a>	Alignment	not modelled	99.3	14	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases
120	<a href="#">d1lw7a2</a>	Alignment	not modelled	99.3	11	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Nucleotide and nucleoside kinases