



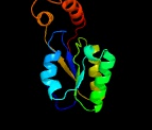





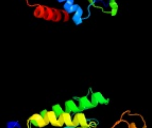


# Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2004c (- )_2249486_2250982
Date	Mon Aug 5 13:25:11 BST 2019
Unique Job ID	f0343b4ae337fbe8

Detailed template  
information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">c1m8pB_</a>	 Alignment		99.8	15	<b>PDB header:</b> transferase <b>Chain:</b> B; <b>PDB Molecule:</b> sulfate adenylyltransferase; <b>PDBTitle:</b> crystal structure of p. chrysogenum atp sulfurylase in the t-state
2	<a href="#">d1knqa_</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> Gluconate kinase
3	<a href="#">c2gksB_</a>	 Alignment		99.8	19	<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
4	<a href="#">c2rhmD_</a>	 Alignment		99.8	23	<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
5	<a href="#">c3t61A_</a>	 Alignment		99.8	18	<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
6	<a href="#">c4bzpB_</a>	 Alignment		99.8	20	<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
7	<a href="#">c2ia5C_</a>	 Alignment		99.8	18	<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.
8	<a href="#">c3cr8C_</a>	 Alignment		99.8	23	<b>PDB header:</b> transferase <b>Chain:</b> C; <b>PDB Molecule:</b> sulfate adenylyltransferase, adenylylsulfate kinase; <b>PDBTitle:</b> hexameric aps kinase from thiobacillus denitrificans
9	<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
10	<a href="#">c2yvua_</a>	 Alignment		99.8	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
11	<a href="#">c1xnjB_</a>	 Alignment		99.8	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

12	<a href="#">c3zvmA</a>	Alignment		99.8	23	<b>PDB header:</b> hydrolase/transferase/dna <b>Chain:</b> A: <b>PDB Molecule:</b> bifunctional polynucleotide phosphatase/kinase; <b>PDBTitle:</b> the structural basis for substrate recognition by mammalian2 polynucleotide kinase 3' phosphatase
13	<a href="#">d1yj5a2</a>	Alignment		99.8	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
14	<a href="#">c1yj5B</a>	Alignment		99.8	23	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> 5' polynucleotide kinase-3' phosphatase catalytic domain; <b>PDBTitle:</b> molecular architecture of mammalian polynucleotide kinase, a dna2 repair enzyme
15	<a href="#">c2viiB</a>	Alignment		99.7	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
16	<a href="#">c4xrpA</a>	Alignment		99.7	22	<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
17	<a href="#">d1m7ga</a>	Alignment		99.7	20	<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)
18	<a href="#">c2pt5D</a>	Alignment		99.7	11	<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
19	<a href="#">c3umfA</a>	Alignment		99.7	15	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> schistosoma mansoni adenylate kinase
20	<a href="#">c3uieB</a>	Alignment		99.7	14	<b>PDB header:</b> transferase/transferase inhibitor <b>Chain:</b> B: <b>PDB Molecule:</b> adenylyl-sulfate kinase 1, chloroplastic; <b>PDBTitle:</b> crystal structure of adenosine 5'-phosphosulfate kinase from2 arabidopsis thaliana in complex with amppnp and aps
21	<a href="#">d1x6va3</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> Adenosine-5'phosphosulfate kinase (APS kinase)
22	<a href="#">c2bwjC</a>	Alignment	not modelled	99.7	17	<b>PDB header:</b> transferase <b>Chain:</b> C: <b>PDB Molecule:</b> adenylate kinase 5; <b>PDBTitle:</b> structure of adenylate kinase 5
23	<a href="#">c2xb4A</a>	Alignment	not modelled	99.7	15	<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
24	<a href="#">d1m8pa3</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> ATP sulfurylase C-terminal domain
25	<a href="#">d2bdtA1</a>	Alignment	not modelled	99.7	15	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Atu3015-like
26	<a href="#">c1zuiA</a>	Alignment	not modelled	99.7	16	<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
27	<a href="#">d1zp6a1</a>	Alignment	not modelled	99.7	21	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> Atu3015-like
28	<a href="#">d1m7qb</a>	Alignment	not modelled	99.7	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)
29	<a href="#">c6ef6A</a>	Alignment	not modelled	99.7	14	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> aminoglycoside phosphotransferase; <b>PDBTitle:</b> structure of the microcompartment-associated aminopropanol kinase

30	<a href="#">c6qp0A</a>	Alignment	not modelled	99.7	16	<b>PDB header:</b> rna binding protein <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
31	<a href="#">d1e6ca</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> Shikimate kinase (AroK)
32	<a href="#">c5cb6A</a>	Alignment	not modelled	99.7	18	<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
33	<a href="#">d3adka</a>	Alignment	not modelled	99.7	15	<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
34	<a href="#">d1teva</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
35	<a href="#">c3vaaC</a>	Alignment	not modelled	99.7	14	<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
36	<a href="#">c4y0aA</a>	Alignment	not modelled	99.7	16	<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
37	<a href="#">c2i1vB</a>	Alignment	not modelled	99.7	10	<b>PDB header:</b> transferase, hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> 6-phosphofructo-2-kinase/fructose-2,6- <b>PDBTitle:</b> crystal structure of pfkfb3 in complex with adp and2 fructose-2,6-bisphosphate
38	<a href="#">d4tmka</a>	Alignment	not modelled	99.6	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
39	<a href="#">d1ak2a1</a>	Alignment	not modelled	99.6	15	<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
40	<a href="#">d1ukza</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
41	<a href="#">c3akcA</a>	Alignment	not modelled	99.6	22	<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
42	<a href="#">c4gp6A</a>	Alignment	not modelled	99.6	20	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> metallophosphoesterase; <b>PDBTitle:</b> polynucleotide kinase
43	<a href="#">c1xjqA</a>	Alignment	not modelled	99.6	17	<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
44	<a href="#">d1qf9a</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
45	<a href="#">c1bifA</a>	Alignment	not modelled	99.6	14	<b>PDB header:</b> bifunctional enzyme <b>Chain:</b> A: <b>PDB Molecule:</b> 6-phosphofructo-2-kinase/ fructose-2,6- bisphosphatase; <b>PDBTitle:</b> 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase bifunctional2 enzyme complexed with atp-g-s and phosphate
46	<a href="#">c6b8vA</a>	Alignment	not modelled	99.6	16	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylylsulfate kinase; <b>PDBTitle:</b> crystal structure of adenylyl-sulfate kinase from cryptococcus2 neoformans
47	<a href="#">c2ccjA</a>	Alignment	not modelled	99.6	15	<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
48	<a href="#">d1zaka1</a>	Alignment	not modelled	99.6	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
49	<a href="#">d2cdna1</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
50	<a href="#">d1ly1a</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
51	<a href="#">c1ly1A</a>	Alignment	not modelled	99.6	19	<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
52	<a href="#">c3trfB</a>	Alignment	not modelled	99.6	15	<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
53	<a href="#">c2if2C</a>	Alignment	not modelled	99.6	17	<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.
54	<a href="#">c3akyA</a>	Alignment	not modelled	99.6	16	<b>PDB header:</b> adenylate kinase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase; <b>PDBTitle:</b> stability, activity and structure of adenylyl kinase2 mutants
55	<a href="#">d1kaga</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> Shikimate kinase (AroK)
56	<a href="#">d1viaa</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> Shikimate kinase (AroK)
57	<a href="#">c2plrB</a>	Alignment	not modelled	99.6	15	<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 sulfobolus tokodaii2 strain7
58	<a href="#">d1qhx_a</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> Chloramphenicol phosphotransferase
59	<a href="#">d1q3ta</a>	Alignment	not modelled	99.6	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
60	<a href="#">d1bifa1</a>	Alignment	not modelled	99.6	13	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase, kinase domain
61	<a href="#">d1k6ma1</a>	Alignment	not modelled	99.6	12	<b>Fold:</b> P-loop containing nucleoside triphosphate hydrolases <b>Superfamily:</b> P-loop containing nucleoside triphosphate hydrolases <b>Family:</b> 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase, kinase domain
62	<a href="#">c1k6mA</a>	Alignment	not modelled	99.6	15	<b>PDB header:</b> transferase, hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2- <b>PDBTitle:</b> crystal structure of human liver 6-phosphofructo-2-kinase/fructose-2,2 6-bisphosphatase
63	<a href="#">c3lzhA</a>	Alignment	not modelled	99.6	13	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> aph(2'')-id/aph(2'')-iva; <b>PDBTitle:</b> crystal structure of aminoglycoside phosphotransferase aph(2'')-2 id/aph(2'')-iva
64	<a href="#">c2pbrB</a>	Alignment	not modelled	99.6	17	<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
65	<a href="#">c3tlx_A</a>	Alignment	not modelled	99.6	14	<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
66	<a href="#">c3be4A</a>	Alignment	not modelled	99.6	19	<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
67	<a href="#">c3nwjB</a>	Alignment	not modelled	99.6	17	<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)
68	<a href="#">d1p3ja1</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
69	<a href="#">c5x7jA</a>	Alignment	not modelled	99.6	17	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> thymidylate kinase; <b>PDBTitle:</b> crystal structure of thymidylate kinase from thermophilus hb8
70	<a href="#">c4dwjB</a>	Alignment	not modelled	99.6	15	<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
71	<a href="#">d2iyva1</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> Shikimate kinase (AroK)
72	<a href="#">c6n39A</a>	Alignment	not modelled	99.6	20	<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
73	<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)
74	<a href="#">d1s3ga1</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
75	<a href="#">c2grjH</a>	Alignment	not modelled	99.6	17	<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
76	<a href="#">d1nn5a</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
77	<a href="#">c2f6rA</a>	Alignment	not modelled	99.6	14	<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
78	<a href="#">c4orkB</a>	Alignment	not modelled	99.6	14	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> bifunctional aac/aph; <b>PDBTitle:</b> crystal structure of the phosphotransferase domain of the bifunctional2 aminoglycoside resistance enzyme aac(6'')-ie-aph(2'')-ia
79	<a href="#">d1akya1</a>	Alignment	not modelled	99.6	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
80	<a href="#">c3dxaA</a>	Alignment	not modelled	99.5	15	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> putative acyl-coa dehydrogenase; <b>PDBTitle:</b> crystal structure of a putative aminoglycoside phosphotransferase2 (reut_a1007) from ralstonia eutropha jmp134 at 2.32 a resolution
81	<a href="#">d1zina1</a>	Alignment	not modelled	99.5	15	<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
						<b>PDB header:</b> transferase

82	<a href="#">c2wwiC</a>	Alignment	not modelled	99.5	13	<b>Chain:</b> C: <b>PDB Molecule:</b> thymidilate kinase, putative; <b>PDBTitle:</b> plasmodium falciparum thymidylate kinase in complex with2 aztmp and adp
83	<a href="#">c3hdtB</a>	Alignment	not modelled	99.5	12	<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
84	<a href="#">c2z0hA</a>	Alignment	not modelled	99.5	12	<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
85	<a href="#">c2h92C</a>	Alignment	not modelled	99.5	21	<b>PDB header:</b> transferase <b>Chain:</b> C: <b>PDB Molecule:</b> cytidylate kinase; <b>PDBTitle:</b> crystal structure of staphylococcus aureus cytidine2 monophosphate kinase in complex with cytidine-5'-3 monophosphate
86	<a href="#">d1ckeA</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
87	<a href="#">c2eu8B</a>	Alignment	not modelled	99.5	13	<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)
88	<a href="#">c4cw7A</a>	Alignment	not modelled	99.5	21	<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
89	<a href="#">c5jy7K</a>	Alignment	not modelled	99.5	21	<b>PDB header:</b> isomerase/transferase <b>Chain:</b> K: <b>PDB Molecule:</b> maltokinase; <b>PDBTitle:</b> complex of mycobacterium smegmatis trehalose synthase with maltokinase
90	<a href="#">c3h0kA</a>	Alignment	not modelled	99.5	15	<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 sulfobolus solfataricus to 3.25a
91	<a href="#">c3cm0A</a>	Alignment	not modelled	99.5	17	<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
92	<a href="#">c5g3yA</a>	Alignment	not modelled	99.5	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
93	<a href="#">c3lv8A</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> 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
94	<a href="#">d1rkba</a>	Alignment	not modelled	99.5	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
95	<a href="#">c2rh5B</a>	Alignment	not modelled	99.5	19	<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
96	<a href="#">c3tr0A</a>	Alignment	not modelled	99.5	17	<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
97	<a href="#">d1y63a</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
98	<a href="#">c4nu0B</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> crystal structure of adenylate kinase from streptococcus pneumoniae2 with ap5a
99	<a href="#">d1gsia</a>	Alignment	not modelled	99.5	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
100	<a href="#">c5uivA</a>	Alignment	not modelled	99.5	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.
101	<a href="#">d1jjva</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="#">c2ak2A</a>	Alignment	not modelled	99.5	18	<b>PDB header:</b> phosphotransferase <b>Chain:</b> A: <b>PDB Molecule:</b> adenylate kinase isoenzyme-2; <b>PDBTitle:</b> adenylate kinase isoenzyme-2
103	<a href="#">c1s3gA</a>	Alignment	not modelled	99.5	18	<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
104	<a href="#">c3r78B</a>	Alignment	not modelled	99.5	15	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> aminoglycoside 3'-phosphotransferase apha1-ia-b; <b>PDBTitle:</b> crystal structure of the aminoglycoside phosphotransferase aph(3')-ia,2 atp-bound
105	<a href="#">c2w0sB</a>	Alignment	not modelled	99.5	9	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> thymidylate kinase; <b>PDBTitle:</b> crystal structure of vaccinia virus thymidylate kinase2 bound to brivudin-5'-monophosphate
106	<a href="#">c3fdiA</a>	Alignment	not modelled	99.5	12	<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.
107	<a href="#">c3i0oA</a>	Alignment	not modelled	99.5	11	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> spectinomycin phosphotransferase; <b>PDBTitle:</b> crystal structure of spectinomycin phosphotransferase,2 aph(9)-ia, in complex with adp and spectinomycin



108	<a href="#">c5igwA_</a>	Alignment	not modelled	99.5	15	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> macrolide 2'-phosphotransferase ii; <b>PDBTitle:</b> macrolide 2'-phosphotransferase type ii - complex with gdp and2 clarithromycin
109	<a href="#">c3tdvB_</a>	Alignment	not modelled	99.5	14	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> gentamicin resistance protein; <b>PDBTitle:</b> structure of the gdp complex of wild-type aminoglycoside 2'-2 phosphotransferase-iiia
110	<a href="#">c3hamA_</a>	Alignment	not modelled	99.5	12	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> aminoglycoside phosphotransferase; <b>PDBTitle:</b> structure of the gentamicin-aph(2'')-iia complex
111	<a href="#">d1e4va1</a>	Alignment	not modelled	99.5	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
112	<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
113	<a href="#">c4pzcC_</a>	Alignment	not modelled	99.4	17	<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
114	<a href="#">c2jatA_</a>	Alignment	not modelled	99.4	13	<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
115	<a href="#">d1vhta_</a>	Alignment	not modelled	99.4	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
116	<a href="#">c1zakB_</a>	Alignment	not modelled	99.4	13	<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)
117	<a href="#">c3r8cB_</a>	Alignment	not modelled	99.4	24	<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
118	<a href="#">d1uf9a_</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
119	<a href="#">c4zo4A_</a>	Alignment	not modelled	99.4	11	<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.
120	<a href="#">c4ttrA_</a>	Alignment	not modelled	99.4	15	<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