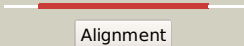

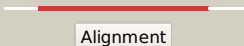

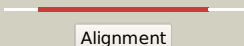







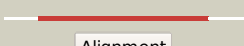




















Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1389_(gmk)_1564407_1565033
Date	Wed Jul 31 22:05:49 BST 2019
Unique Job ID	05c81a2694aacb1b

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1z6gA_			100.0	33	PDB header: transferase Chain: A: PDB Molecule: guanylate kinase; PDBTitle: crystal structure of guanylate kinase from plasmodium falciparum
2	c3neyC_			100.0	26	PDB header: membrane protein Chain: C: PDB Molecule: 55 kda erythrocyte membrane protein; PDBTitle: crystal structure of the kinase domain of mpp1/p55
3	c3tr0A_			100.0	38	PDB header: transferase Chain: A: PDB Molecule: guanylate kinase; PDBTitle: structure of guanylate kinase (gmk) from coxiella burnetii
4	c2qorA_			100.0	33	PDB header: transferase Chain: A: PDB Molecule: guanylate kinase; PDBTitle: crystal structure of plasmodium vivax guanylate kinase
5	d1s96a_			100.0	35	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
6	d1lvga_			100.0	43	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
7	c3uatA_			100.0	23	PDB header: peptide binding protein Chain: A: PDB Molecule: disks large homolog 1; PDBTitle: guanylate kinase domains of the maguk family scaffold proteins as2 specific phospho-protein binding modules
8	d1kgda_			100.0	21	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
9	c1kiwA_			100.0	21	PDB header: neuropeptide Chain: A: PDB Molecule: postsynaptic density protein 95; PDBTitle: sh3-guanylate kinase module from psd-95
10	c4wsiB_			100.0	26	PDB header: peptide binding protein Chain: B: PDB Molecule: maguk p55 subfamily member 5; PDBTitle: crystal structure of pals1/crb complex
11	c2xkxB_			100.0	22	PDB header: structural protein Chain: B: PDB Molecule: disks large homolog 4; PDBTitle: single particle analysis of psd-95 in negative stain

12	d1kja2	Alignment		100.0	21	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
13	c1znyA	Alignment		100.0	100	PDB header: transferase Chain: A: PDB Molecule: guanylate kinase; PDBTitle: crystal structure of mycobacterium tuberculosis guanylate kinase in2 complex with gdp
14	d1gkya	Alignment		100.0	40	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
15	d1znwa1	Alignment		100.0	100	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
16	c3lncB	Alignment		100.0	35	PDB header: transferase Chain: B: PDB Molecule: guanylate kinase; PDBTitle: crystal structure of guanylate kinase from anaplasma phagocytophilum
17	c4zw2A	Alignment		100.0	18	PDB header: metal transport Chain: A: PDB Molecule: voltage-dependent l-type calcium channel subunit beta-1, PDBTitle: crystal structure of the mouse voltage gated calcium channel beta2 subunit isoform 1a in complex with alpha interaction domain peptide.
18	c3tauB	Alignment		100.0	38	PDB header: transferase Chain: B: PDB Molecule: guanylate kinase; PDBTitle: crystal structure of a putative guanylate monophosphate kinase from2 listeria monocytogenes egd-e
19	c6mfuD	Alignment		100.0	42	PDB header: hydrolase Chain: D: PDB Molecule: guanylate kinase; PDBTitle: crystal structure of a guanylate kinase from cryptococcus neoformans2 var. grubii serotype a in complex with gdp and adp
20	c3lh5A	Alignment		100.0	15	PDB header: protein binding Chain: A: PDB Molecule: tight junction protein zo-1; PDBTitle: crystal structure of the sh3-guanylate kinase core domain of zo-1
21	c3kfvA	Alignment	not modelled	99.9	18	PDB header: cell adhesion Chain: A: PDB Molecule: tight junction protein zo-3; PDBTitle: crystal structure of the sh3-kinase fragment of tight junction protein2 3 (tjp3) in apo-form
22	c2j41A	Alignment	not modelled	99.9	39	PDB header: transferase Chain: A: PDB Molecule: guanylate kinase; PDBTitle: crystal structure of staphylococcus aureus guanylate2 monophosphate kinase
23	c1vyuB	Alignment	not modelled	99.9	20	PDB header: ion transport Chain: B: PDB Molecule: calcium channel beta-3 subunit; PDBTitle: beta3 subunit of voltage-gated ca2+-channel
24	c3shwA	Alignment	not modelled	99.9	14	PDB header: cell adhesion Chain: A: PDB Molecule: tight junction protein zo-1; PDBTitle: crystal structure of zo-1 pdz3-sh3-guk supramodule complex with2 connexin-45 peptide
25	c3h0kA	Alignment	not modelled	99.6	15	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: upf0200 protein sso1041; PDBTitle: crystal structure of an adenylated kinase related protein from2 sulfolobus solfataricus to 3.25a
26	c3ch4B	Alignment	not modelled	99.6	15	PDB header: transferase Chain: B: PDB Molecule: phosphomevalonate kinase; PDBTitle: the crystal structure of human phosphomavelonate kinase at2 1.8 a resolution
27	c2w0sB	Alignment	not modelled	99.6	10	PDB header: transferase Chain: B: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of vaccinia virus thymidylate kinase2 bound to brivudin-5'-monophosphate
28	c2if2C	Alignment	not modelled	99.5	18	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.

29	d4tmka_	Alignment	not modelled	99.5	16	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
30	c3vaaC_	Alignment	not modelled	99.5	15	PDB header: transferase Chain: C: PDB Molecule: shikimate kinase; PDBTitle: 1.7 angstrom resolution crystal structure of shikimate kinase from2 bacteroides thetaiotaomicron
31	c2plrB_	Alignment	not modelled	99.5	13	PDB header: transferase Chain: B: PDB Molecule: probable thymidylate kinase; PDBTitle: crystal structure of dtmp kinase (st1543) from sulfobolus tokodaii2 strain7
32	c4cw7A_	Alignment	not modelled	99.5	18	PDB header: transferase Chain: A: PDB Molecule: putative adenylate kinase; PDBTitle: structure of the fap7-rps14 complex in complex with atp
33	d1e6ca_	Alignment	not modelled	99.5	21	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Shikimate kinase (AroK)
34	d1vhta_	Alignment	not modelled	99.5	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
35	c3akcA_	Alignment	not modelled	99.5	21	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
36	c4ttrA_	Alignment	not modelled	99.5	15	PDB header: transferase Chain: A: PDB Molecule: dephospho-coa kinase; PDBTitle: crystal structure of legionella pneumophila dephospho-coa kinase in2 complex with bu2
37	d1ki9a_	Alignment	not modelled	99.4	22	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
38	c2pbrB_	Alignment	not modelled	99.4	15	PDB header: transferase Chain: B: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of thymidylate kinase (aq_969) from aquifex aeolicus2 vf5
39	d2bdta1	Alignment	not modelled	99.4	16	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Atu3015-like
40	d1jva_	Alignment	not modelled	99.4	13	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
41	c5uivA_	Alignment	not modelled	99.4	14	PDB header: transferase Chain: A: PDB Molecule: bifunctional thymidylate/uridylate kinase; PDBTitle: structure of thymidylate kinase from candida albicans reveals origin2 of broad substrate specificity and a novel structural element.
42	d1knqa_	Alignment	not modelled	99.4	20	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Gluconate kinase
43	c1zuiA_	Alignment	not modelled	99.4	15	PDB header: transferase Chain: A: PDB Molecule: shikimate kinase; PDBTitle: structural basis for shikimate-binding specificity of helicobacter2 pylori shikimate kinase
44	c3umfA_	Alignment	not modelled	99.4	17	PDB header: transferase Chain: A: PDB Molecule: adenylate kinase; PDBTitle: schistosoma mansoni adenylate kinase
45	d1uf9a_	Alignment	not modelled	99.4	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
46	c5x7jA_	Alignment	not modelled	99.4	18	PDB header: transferase Chain: A: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of thymidylate kinase from thermus thermophilus hb8
47	d1khta_	Alignment	not modelled	99.4	21	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
48	c3hdtB_	Alignment	not modelled	99.4	12	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: putative kinase; PDBTitle: crystal structure of putative kinase from clostridium symbiosum atcc2 14940
49	d1nn5a_	Alignment	not modelled	99.4	17	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
50	c2yvua_	Alignment	not modelled	99.4	15	PDB header: transferase Chain: A: PDB Molecule: probable adenyl-lyl-sulfate kinase; PDBTitle: crystal structure of ape1195
51	c2ccjA_	Alignment	not modelled	99.4	15	PDB header: transferase Chain: A: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of s. aureus thymidylate kinase complexed2 with thymidine monophosphate
52	c2pt5D_	Alignment	not modelled	99.4	19	PDB header: transferase Chain: D: PDB Molecule: shikimate kinase; PDBTitle: crystal structure of shikimate kinase (aq_2177) from aquifex aeolicus2 vf5
53	c4y0aA_	Alignment	not modelled	99.3	13	PDB header: transferase/transferase inhibitor Chain: A: PDB Molecule: shikimate kinase; PDBTitle: shikimate kinase from acinetobacter baumannii in complex with2 shikimate
54	c2f6rA_	Alignment	not modelled	99.3	13	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
55	c1ly1A_	Alignment	not modelled	99.3	17	PDB header: transferase Chain: A: PDB Molecule: polynucleotide kinase;

						PDBTitle: structure and mechanism of t4 polynucleotide kinase
56	d1ly1a_	Alignment	not modelled	99.3	17	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
57	c3crqA_	Alignment	not modelled	99.3	26	PDB header: transferase Chain: A: PDB Molecule: trna delta(2)-isopentenylpyrophosphate PDBTitle: structure of trna dimethylallyltransferase: rna2 modification through a channel
58	c2wwiC_	Alignment	not modelled	99.3	14	PDB header: transferase Chain: C: PDB Molecule: thymidilate kinase, putative; PDBTitle: plasmodium falciparum thymidilate kinase in complex with2 aztmp and adp
59	c3asyB_	Alignment	not modelled	99.3	14	PDB header: transferase Chain: B: PDB Molecule: uridine kinase; PDBTitle: ligand-free structure of uridine kinase from thermus thermophilus hb8
60	c4zo4A_	Alignment	not modelled	99.3	16	PDB header: transferase Chain: A: PDB Molecule: dephospho-coa kinase; PDBTitle: dephospho-coa kinase from campylobacter jejuni.
61	c4bzbB_	Alignment	not modelled	99.3	17	PDB header: transferase Chain: B: PDB Molecule: bifunctional enzyme cysn/cysc; PDBTitle: structure of the mycobacterium tuberculosis aps kinase cysc2 in complex with adp
62	d2iyva1	Alignment	not modelled	99.3	21	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Shikimate kinase (AroK)
63	d1lukza_	Alignment	not modelled	99.3	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
64	c4dwjB_	Alignment	not modelled	99.3	17	PDB header: transferase Chain: B: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of thymidylate kinase from staphylococcus aureus in2 complex with thymidine monophosphate
65	c3cm0A_	Alignment	not modelled	99.3	18	PDB header: transferase Chain: A: PDB Molecule: adenylate kinase; PDBTitle: crystal structure of adenylyl kinase from thermus2 thermophilus hb8
66	d1zpb6a1	Alignment	not modelled	99.3	13	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Atu3015-like
67	c6n39A_	Alignment	not modelled	99.3	14	PDB header: transferase Chain: A: PDB Molecule: dephospho-coa kinase; PDBTitle: crystal structure of an dephospho-coa kinase coae from mycobacterium2 paratuberculosis
68	c2vliB_	Alignment	not modelled	99.3	16	PDB header: transferase Chain: B: PDB Molecule: antibiotic resistance protein; PDBTitle: structure of deinococcus radiodurans tunicamycin resistance protein
69	c3t61A_	Alignment	not modelled	99.3	16	PDB header: transferase Chain: A: PDB Molecule: gluconokinase; PDBTitle: crystal structure of a gluconokinase from sinorhizobium meliloti 1021
70	d1kaga_	Alignment	not modelled	99.3	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Shikimate kinase (AroK)
71	c2jatA_	Alignment	not modelled	99.3	11	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
72	c3lv8A_	Alignment	not modelled	99.3	14	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
73	c5cb6A_	Alignment	not modelled	99.3	17	PDB header: transferase Chain: A: PDB Molecule: probable adenylyl-sulfate kinase; PDBTitle: structure of adenosine-5'-phosphosulfate kinase
74	c4ilvB_	Alignment	not modelled	99.3	15	PDB header: transferase Chain: B: PDB Molecule: dephospho-coa kinase; PDBTitle: crystal structure of a dephospho-coa kinase from burkholderia2 vietnamiensis bound to adp
75	d1viaa_	Alignment	not modelled	99.3	14	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Shikimate kinase (AroK)
76	c2grjH_	Alignment	not modelled	99.2	15	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
77	c2z0hA_	Alignment	not modelled	99.2	13	PDB header: transferase Chain: A: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of thymidylate kinase in complex with dtdp2 and adp from thermotoga maritima
78	d1y63a_	Alignment	not modelled	99.2	13	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
79	c4eunA_	Alignment	not modelled	99.2	21	PDB header: transferase Chain: A: PDB Molecule: thermoreistant glucokinase; PDBTitle: crystal structure of a sugar kinase (target efi-502144 from janibacter2 sp. htcc2649), unliganded structure
80	d1tmka_	Alignment	not modelled	99.2	13	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
81	c1ueiB_	Alignment	not modelled	99.2	12	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
82	d1qhxa_	Alignment	not modelled	99.2	19	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Chloramphenicol phosphotransferase
83	c2bwjC_	Alignment	not modelled	99.2	15	PDB header: transferase Chain: C: PDB Molecule: adenylate kinase 5; PDBTitle: structure of adenylyl transferase
84	c2ia5C_	Alignment	not modelled	99.2	18	PDB header: transferase Chain: C: PDB Molecule: polynucleotide kinase; PDBTitle: t4 polynucleotide kinase/phosphatase with bound sulfate and magnesium.
85	d1q3ta_	Alignment	not modelled	99.2	11	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
86	d1zaka1	Alignment	not modelled	99.2	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
87	d2ak3a1	Alignment	not modelled	99.2	9	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
88	c2ql6H_	Alignment	not modelled	99.2	15	PDB header: signaling protein,transferase Chain: H: PDB Molecule: nicotinamide riboside kinase 1; PDBTitle: human nicotinamide riboside kinase (nrk1)
89	d1rkba_	Alignment	not modelled	99.2	14	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
90	d3adka_	Alignment	not modelled	99.2	17	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
91	c4gp6A_	Alignment	not modelled	99.2	21	PDB header: transferase Chain: A: PDB Molecule: metallophosphoesterase; PDBTitle: polynucleotide kinase
92	d1m8pa3	Alignment	not modelled	99.1	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: ATP sulfurylase C-terminal domain
93	d1uj2a_	Alignment	not modelled	99.1	12	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Phosphoribulokinase/pantothenate kinase
94	c3fdia_	Alignment	not modelled	99.1	10	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of uncharacterized protein from eubacterium2 ventriosum atcc 27560.
95	c3trfB_	Alignment	not modelled	99.1	15	PDB header: transferase Chain: B: PDB Molecule: shikimate kinase; PDBTitle: structure of a shikimate kinase (arok) from coxiella burnetii
96	d1m7gb_	Alignment	not modelled	99.1	19	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Adenosine-5'phosphosulfate kinase (APS kinase)
97	c1m8pB_	Alignment	not modelled	99.1	15	PDB header: transferase Chain: B: PDB Molecule: sulfate adenylyltransferase; PDBTitle: crystal structure of p. chrysogenum atp sulfurylase in the t-state
98	d1yj5a2	Alignment	not modelled	99.1	18	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
99	c2gksB_	Alignment	not modelled	99.1	15	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
100	c4xrpA_	Alignment	not modelled	99.1	19	PDB header: protein binding Chain: A: PDB Molecule: pnkp1; PDBTitle: structure of the pnkp1/rnl/hen1 rna repair complex
101	c3zvmA_	Alignment	not modelled	99.1	20	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	d1nksa_	Alignment	not modelled	99.1	16	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
103	c2vp4D_	Alignment	not modelled	99.1	10	PDB header: transferase Chain: D: PDB Molecule: deoxynucleoside kinase; PDBTitle: structural studies of nucleoside analog and feedback2 inhibitor binding to drosophila melanogaster3 multisubstrate deoxyribonucleoside kinase
104	c3uwoA_	Alignment	not modelled	99.1	22	PDB header: transferase/transferase inhibitor Chain: A: PDB Molecule: thymidylate kinase; PDBTitle: structure guided development of novel thymidine mimetics targeting2 pseudomonas aeruginosa thymidylate kinase: from hit to lead3 generation
105	c6qp0A_	Alignment	not modelled	99.1	17	PDB header: rna binding protein Chain: A: PDB Molecule: putative chromatin binding protein; PDBTitle: crystal structure of chaetomium thermophilum kti12 in complex with2 adp-alf3
106	d1ckea_	Alignment	not modelled	99.0	11	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
107	d2cdna1	Alignment	not modelled	99.0	21	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases

108	d1ak2a1	Alignment	not modelled	99.0	15	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
109	c3ld9D_	Alignment	not modelled	99.0	14	PDB header: transferase Chain: D: PDB Molecule: thymidylate kinase; PDBTitle: crystal structure of thymidylate kinase from ehrlichia chaffeensis at2.15a resolution
110	d1qf9a_	Alignment	not modelled	99.0	16	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
111	c2ar7A_	Alignment	not modelled	99.0	14	PDB header: transferase Chain: A: PDB Molecule: adenylate kinase 4; PDBTitle: crystal structure of human adenylate kinase 4, ak4
112	c3uieB_	Alignment	not modelled	99.0	17	PDB header: transferase/transferase inhibitor Chain: B: PDB Molecule: adenylyl-sulfate kinase 1, chloroplastic; PDBTitle: crystal structure of adenosine 5'-phosphosulfate kinase from2 arabidopsis thaliana in complex with amppnp and aps
113	c2ak3B_	Alignment	not modelled	99.0	15	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
114	d1p3ja1	Alignment	not modelled	99.0	20	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
115	d2ocpa1	Alignment	not modelled	99.0	19	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
116	d1p5zb_	Alignment	not modelled	99.0	14	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
117	c3be4A_	Alignment	not modelled	99.0	13	PDB header: transferase Chain: A: PDB Molecule: adenylate kinase; PDBTitle: crystal structure of cryptosporidium parvum adenylate kinase cgd5_3360
118	d1teva_	Alignment	not modelled	99.0	18	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nucleotide and nucleoside kinases
119	c1yj5B_	Alignment	not modelled	99.0	22	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
120	c2qroB_	Alignment	not modelled	99.0	10	PDB header: transferase Chain: B: PDB Molecule: deoxycytidine kinase; PDBTitle: human deoxycytidine kinase damp, udp, mg ion product complex