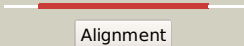

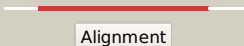

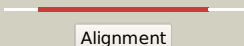






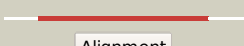











Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2133c (-)_2393859_2394647
Date	Mon Aug 5 13:25:25 BST 2019
Unique Job ID	d0bd69213e5f004a

Detailed template
information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4hndB_	 Alignment		100.0	19	PDB header: transferase Chain: B: PDB Molecule: phosphatidylinositol 4-kinase type 2-alpha; PDBTitle: crystal structure of the catalytic domain of selenomethionine2 substituted human pi4kiialpha in complex with adp
2	c4plaA_	 Alignment		100.0	19	PDB header: transferase,hydrolase Chain: A: PDB Molecule: chimera protein of phosphatidylinositol 4-kinase type 2- PDBTitle: crystal structure of phosphatidyl inositol 4-kinase ii alpha in2 complex with atp
3	c5xomB_	 Alignment		99.7	16	PDB header: transferase Chain: B: PDB Molecule: glycosaminoglycan xylosylkinase; PDBTitle: hydra fam20
4	c5yh0G_	 Alignment		99.7	18	PDB header: transferase Chain: G: PDB Molecule: drfam20c1; PDBTitle: the structure of drfam20c1
5	c5wrrA_	 Alignment		99.7	21	PDB header: transferase Chain: A: PDB Molecule: pseudokinase fam20a; PDBTitle: crystal structure of fam20a
6	c4kqaC_	 Alignment		99.6	17	PDB header: transferase Chain: C: PDB Molecule: protein h03a11.1; PDBTitle: crystal structure of the golgi casein kinase
7	c5dfzC_	 Alignment		99.3	17	PDB header: transferase Chain: C: PDB Molecule: phosphatidylinositol 3-kinase vps34; PDBTitle: structure of vps34 complex ii from s. cerevisiae.
8	c2y3aA_	 Alignment		99.2	13	PDB header: transferase Chain: A: PDB Molecule: phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic PDBTitle: crystal structure of p110beta in complex with icsh2 of p85beta and the2 drug gdc-0941
9	c5dxuA_	 Alignment		99.1	13	PDB header: transferase/inhibitor Chain: A: PDB Molecule: phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic PDBTitle: p110delta/p85alpha with gdc-0326
10	c4d0mW_	 Alignment		99.1	16	PDB header: signaling protein Chain: W: PDB Molecule: phosphatidylinositol 4-kinase beta; PDBTitle: phosphatidylinositol 4-kinase iii beta in a complex with rab11a-gtp-2 gamma-s and the rab-binding domain of fip3
11	c2wxoA_	 Alignment		99.0	12	PDB header: transferase Chain: A: PDB Molecule: phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic PDBTitle: the crystal structure of the murine class ia pi 3-kinase p110delta in2 complex with as5.

12	c3ls8A_	Alignment		99.0	15	PDB header: transferase Chain: A: PDB Molecule: phosphatidylinositol 3-kinase catalytic subunit PDBTitle: crystal structure of human pik3c3 in complex with 3-[4-(4-2 morpholinyl)thieno[3,2-d]pyrimidin-2-yl]-phenol
13	c5is5A_	Alignment		99.0	14	PDB header: transferase Chain: A: PDB Molecule: phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic PDBTitle: discovery and pharmacological characterization of novel quinazoline-2 based pi3k delta-selective inhibitors
14	c2x6kB_	Alignment		99.0	18	PDB header: transferase Chain: B: PDB Molecule: phosphotidylinositol 3 kinase 59f; PDBTitle: the crystal structure of the drosophila class iii pi3-kinase vps34 in2 complex with pi-103
15	c4yknA_	Alignment		98.9	17	PDB header: transferase/transferase inhibitor Chain: A: PDB Molecule: phosphatidylinositol 3-kinase regulatory subunit alpha, PDBTitle: pi3k alpha lipid kinase with active site inhibitor
16	c6bq1A_	Alignment		98.8	15	PDB header: transferase/signaling protein Chain: A: PDB Molecule: phosphatidylinositol 4-kinase iii alpha (pi4ka); PDBTitle: human pi4kiiia lipid kinase complex
17	c6bq1E_	Alignment		98.8	15	PDB header: transferase/signaling protein Chain: E: PDB Molecule: phosphatidylinositol 4-kinase iii alpha (pi4ka); PDBTitle: human pi4kiiia lipid kinase complex
18	c2rd0A_	Alignment		98.8	18	PDB header: transferase/oncoprotein Chain: A: PDB Molecule: phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic PDBTitle: structure of a human p110alpha/p85alpha complex
19	c3akjB_	Alignment		98.5	18	PDB header: transferase Chain: B: PDB Molecule: ctka; PDBTitle: crystal structure of a helicobacter pylori proinflammatory kinase ctka
20	d1e7ua4	Alignment		98.4	14	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Phosphoinositide 3-kinase (PI3K), catalytic domain
21	c1e8zA_	Alignment	not modelled	98.4	17	PDB header: transferase Chain: A: PDB Molecule: phosphatidylinositol 3-kinase catalytic subunit; PDBTitle: structure determinants of phosphoinositide 3-kinase2 inhibition by wortmannin, ly294002, quercetin, myricetin3 and staurosporine
22	c4jspA_	Alignment	not modelled	97.4	16	PDB header: transferase Chain: A: PDB Molecule: serine/threonine-protein kinase mtor; PDBTitle: structure of mtordeltan-mlst8-atpgammas-mg complex
23	c6jxaA_	Alignment	not modelled	96.8	14	PDB header: transferase Chain: A: PDB Molecule: serine/threonine-protein kinase tel1; PDBTitle: tel1 kinase compact monomer
24	c3dntB_	Alignment	not modelled	96.8	14	PDB header: transferase Chain: B: PDB Molecule: protein hipa; PDBTitle: structures of mdt proteins
25	c5h64a_	Alignment	not modelled	96.6	16	PDB header: transferase Chain: A: PDB Molecule: serine/threonine-protein kinase mtor; PDBTitle: cryo-em structure of mtorc1
26	c5yz0A_	Alignment	not modelled	96.1	17	PDB header: cell cycle Chain: A: PDB Molecule: serine/threonine-protein kinase atr; PDBTitle: cryo-em structure of human atr-atrip complex
27	c5np1A_	Alignment	not modelled	96.1	13	PDB header: transferase Chain: A: PDB Molecule: serine-protein kinase atm; PDBTitle: open protomer of human atm (ataxia telangiectasia mutated)
28	c6emkA_	Alignment	not modelled	96.1	26	PDB header: signaling protein Chain: A: PDB Molecule: serine/threonine-protein kinase tor2; PDBTitle: cryo-em structure of saccharomyces cerevisiae target of rapamycin2 complex 2 PDB header: signaling protein

29	c5np0A_	Alignment	not modelled	96.0	13	Chain: A: PDB Molecule: serine-protein kinase atm; PDBTitle: closed dimer of human atm (ataxia telangiectasia mutated)
30	c5fvmB_	Alignment	not modelled	96.0	26	PDB header: transferase Chain: B: PDB Molecule: serine/threonine-protein kinase tor2; PDBTitle: cryo electron microscopy of a complex of tor and lst8
31	c5zcsB_	Alignment	not modelled	95.9	21	PDB header: gene regulation Chain: B: PDB Molecule: serine/threonine-protein kinase mtor; PDBTitle: 4.9 angstrom cryo-em structure of human mtor complex 2
32	c5x60C_	Alignment	not modelled	95.8	19	PDB header: transferase/dna binding protein Chain: C: PDB Molecule: serine/threonine-protein kinase mec1; PDBTitle: intact atr/mec1-atrip/ddc2 complex
33	c4pu5A_	Alignment	not modelled	95.6	18	PDB header: toxin Chain: A: PDB Molecule: toxin-antitoxin system toxin hipa family; PDBTitle: shewanella oneidensis toxin antitoxin system toxin protein hipa bound2 with amppnp and mg
34	c5luqA_	Alignment	not modelled	95.3	18	PDB header: transferase Chain: A: PDB Molecule: dna-dependent protein kinase catalytic subunit,dna- PDBTitle: crystal structure of human dna-dependent protein kinase catalytic2 subunit (dna-pkcs)
35	c5luqB_	Alignment	not modelled	95.3	18	PDB header: transferase Chain: B: PDB Molecule: dna-dependent protein kinase catalytic subunit,dna- PDBTitle: crystal structure of human dna-dependent protein kinase catalytic2 subunit (dna-pkcs)
36	d1cjaa_	Alignment	not modelled	94.8	21	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Actin-fragmin kinase, catalytic domain
37	c6ig9T_	Alignment	not modelled	94.7	8	PDB header: transcription Chain: T: PDB Molecule: transcription-associated protein 1; PDBTitle: tra1 subunit from saccharomyces cerevisiae saga complex
38	c5oejB_	Alignment	not modelled	94.2	8	PDB header: transcription Chain: B: PDB Molecule: tra1 subunit within the chromatin modifying complex saga; PDBTitle: structure of tra1 subunit within the chromatin modifying complex saga
39	c5ojsT_	Alignment	not modelled	93.4	8	PDB header: transcription Chain: T: PDB Molecule: transcription-associated protein 1; PDBTitle: cryo-em structure of the saga and nua4 coactivator subunit tra1
40	c5w1rA_	Alignment	not modelled	93.3	18	PDB header: dna binding protein Chain: A: PDB Molecule: dna-dependent protein kinase catalytic subunit; PDBTitle: cryo-em structure of dnapkcs
41	c5yk2A_	Alignment	not modelled	92.9	15	PDB header: transport protein Chain: A: PDB Molecule: probable conserved atp-binding protein abc transporter; PDBTitle: the complex structure of rv3197-erythromycin from mycobacterium2 tuberculosis
42	c4pedA_	Alignment	not modelled	92.2	16	PDB header: transferase Chain: A: PDB Molecule: chaperone activity of bc1 complex-like, mitochondrial; PDBTitle: mitochondrial adck3 employs an atypical protein kinase-like fold to2 enable coenzyme q biosynthes
43	d1zara2	Alignment	not modelled	89.4	11	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: RIO1-like kinases
44	c4r77A_	Alignment	not modelled	88.6	9	PDB header: transferase Chain: A: PDB Molecule: choline kinase; PDBTitle: crystal structure of choline kinase lica from streptococcus pneumoniae
45	c6g51v_	Alignment	not modelled	75.1	7	PDB header: ribosome Chain: V: PDB Molecule: 40s ribosomal protein s21; PDBTitle: cryo-em structure of a late human pre-40s ribosomal subunit - state d
46	c6fdnA_	Alignment	not modelled	74.7	9	PDB header: nuclear protein Chain: A: PDB Molecule: serine/threonine-protein kinase rio2; PDBTitle: rio2 structure
47	c4o96D_	Alignment	not modelled	66.3	13	PDB header: hydrolase Chain: D: PDB Molecule: type iii effector protein kinase; PDBTitle: 2.60 angstrom resolution crystal structure of a protein kinase domain2 of type iii effector nleh2 (ecs1814) from escherichia coli o157:h73 str. sakai
48	c3dxqB_	Alignment	not modelled	66.2	14	PDB header: transferase Chain: B: PDB Molecule: choline/ethanolamine kinase family protein; PDBTitle: crystal structure of choline/ethanolamine kinase family protein2 (np_106042.1) from mesorhizobium loti at 2.55 a resolution
49	d2o3bb1	Alignment	not modelled	62.4	19	Fold: Nuclease A inhibitor (NuiA) Superfamily: Nuclease A inhibitor (NuiA) Family: Nuclease A inhibitor (NuiA)
50	c3byvA_	Alignment	not modelled	58.1	11	PDB header: transferase Chain: A: PDB Molecule: rhoptry kinase; PDBTitle: crystal structure of toxoplasma gondii specific rhoptry2 antigen kinase domain
51	c3dxaA_	Alignment	not modelled	57.0	14	PDB header: transferase Chain: A: PDB Molecule: putative acyl-coa dehydrogenase; PDBTitle: crystal structure of a putative aminoglycoside phosphotransferase2 (reut_a1007) from ralstonia eutropha jmp134 at 2.32 a resolution
52	c5igwA_	Alignment	not modelled	54.0	13	PDB header: transferase Chain: A: PDB Molecule: macrolide 2'-phosphotransferase ii; PDBTitle: macrolide 2'-phosphotransferase type ii - complex with gdp and2 clarithromycin
						PDB header: structural protein

53	c5jd9A_	Alignment	not modelled	54.0	9	Chain: A: PDB Molecule: spore coat protein h; PDBTitle: bacillus cereus coth kinase
54	c4gygA_	Alignment	not modelled	51.7	12	PDB header: transferase Chain: A: PDB Molecule: rio2 kinase; PDBTitle: crystal structure of the rio2 kinase from chaetomium thermophilum
55	c5nclA_	Alignment	not modelled	50.4	35	PDB header: signaling protein Chain: A: PDB Molecule: serine/threonine-protein kinase cbk1; PDBTitle: crystal structure of the cbk1-mob2 kinase-coactivator complex with an2 ssd1 peptide
56	c4bvua_	Alignment	not modelled	50.3	19	PDB header: transferase/ligase/protein binding Chain: A: PDB Molecule: protein kinase ospg; PDBTitle: structure of shigella effector ospg in complex with host ubch5c-2 ubiquitin conjugate
57	c2pziA_	Alignment	not modelled	50.1	17	PDB header: transferase Chain: A: PDB Molecule: probable serine/threonine-protein kinase pkng; PDBTitle: crystal structure of protein kinase pkng from mycobacterium2 tuberculosis in complex with tetrahydrobenzothiophene ax20017
58	c4ockA_	Alignment	not modelled	48.2	17	PDB header: transferase Chain: A: PDB Molecule: n-acetylhexosamine 1-phosphate kinase; PDBTitle: n-acetylhexosamine 1-phosphate kinase in complex with glcnac and2 amppnp
59	c3i0oA_	Alignment	not modelled	47.8	13	PDB header: transferase Chain: A: PDB Molecule: spectinomycin phosphotransferase; PDBTitle: crystal structure of spectinomycin phosphotransferase,2 aph(9)-ia, in complex with adp and spectinomycin
60	c3r78B_	Alignment	not modelled	44.3	4	PDB header: transferase Chain: B: PDB Molecule: aminoglycoside 3'-phosphotransferase apha1-iab; PDBTitle: crystal structure of the aminoglycoside phosphotransferase aph(3')-ia,2 atp-bound
61	c6m7zE_	Alignment	not modelled	43.7	10	PDB header: transferase Chain: E: PDB Molecule: bradyzoite pseudokinase 1; PDBTitle: a divergent kinase lacking the glycine-rich loop regulates membrane2 ultrastructure of the toxoplasma parasitophorous vacuole
62	c4azwA_	Alignment	not modelled	43.5	13	PDB header: transferase Chain: A: PDB Molecule: wbdd; PDBTitle: crystal structure of monomeric wbdd.
63	c4jrnA_	Alignment	not modelled	43.0	30	PDB header: transferase Chain: A: PDB Molecule: rhoptry kinase family protein; PDBTitle: rop18 kinase domain in complex with amp-pnp and sucrose
64	c5igrA_	Alignment	not modelled	41.9	15	PDB header: transferase/antibiotic Chain: A: PDB Molecule: macrolide 2'-phosphotransferase; PDBTitle: macrolide 2'-phosphotransferase type i - complex with gdp and2 oleandomycin
65	c1tqmA_	Alignment	not modelled	41.3	19	PDB header: ribosome Chain: A: PDB Molecule: conserved hypothetical protein; PDBTitle: crystal structure of a. fulgidus rio2 serine protein kinase bound to2 amppnp
66	c4w9xA_	Alignment	not modelled	41.2	15	PDB header: transferase Chain: A: PDB Molecule: bmp-2-inducible protein kinase; PDBTitle: crystal structure of bmp-2-inducible kinase in complex with2 baricitinib
67	c4azsA_	Alignment	not modelled	40.8	13	PDB header: transferase Chain: A: PDB Molecule: methyltransferase wbdd; PDBTitle: high resolution (2.2 a) crystal structure of wbdd.
68	c3dzoA_	Alignment	not modelled	39.2	11	PDB header: transferase Chain: A: PDB Molecule: rhoptry kinase domain; PDBTitle: crystal structure of a rhoptry kinase from toxoplasma gondii
69	c3f2rA_	Alignment	not modelled	36.8	20	PDB header: transferase Chain: A: PDB Molecule: choline kinase alpha; PDBTitle: crystal structure of human choline kinase alpha in complex with2 hemicholinium-3
70	c4cdaA_	Alignment	not modelled	36.5	16	PDB header: transferase Chain: A: PDB Molecule: tyrosine kinase as - a common ancestor of src and abl; PDBTitle: tyrosine kinase as - a common ancestor of src and abl
71	c3q3wB_	Alignment	not modelled	36.0	19	PDB header: transferase Chain: B: PDB Molecule: 3-isopropylmalate dehydratase small subunit; PDBTitle: isopropylmalate isomerase small subunit from campylobacter jejuni.
72	d1j7la_	Alignment	not modelled	35.6	13	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: APH phosphotransferases
73	c3en9B_	Alignment	not modelled	35.4	24	PDB header: hydrolase Chain: B: PDB Molecule: o-sialoglycoprotein endopeptidase/protein kinase; PDBTitle: structure of the methanococcus jannaschii kae1-bud32 fusion2 protein
74	c5dfzB_	Alignment	not modelled	34.9	11	PDB header: transferase Chain: B: PDB Molecule: serine/threonine-protein kinase vps15; PDBTitle: structure of vps34 complex ii from s. cerevisiae.
75	c3c5iD_	Alignment	not modelled	34.8	8	PDB header: transferase Chain: D: PDB Molecule: choline kinase; PDBTitle: crystal structure of plasmodium knowlesi choline kinase, pkh_134520
76	c1zp9A_	Alignment	not modelled	34.7	22	PDB header: transferase Chain: A: PDB Molecule: rio1 kinase; PDBTitle: crystal structure of full-legnth a.fulgidus rio1 serine kinase bound2 to atp and mn2+ ions.
77	c3pfqA_	Alignment	not modelled	34.0	26	PDB header: transferase Chain: A: PDB Molecule: protein kinase c beta type; PDBTitle: crystal structure and allosteric activation of protein kinase c beta2 ii

78	c6fucA	Alignment	not modelled	33.9	19	PDB header: transferase Chain: A: PDB Molecule: aminoglycoside phosphotransferase; PDBTitle: structure of aminoglycoside phosphotransferase aph(3"-id from2 streptomyces rimosus atcc10970
79	c2q83A	Alignment	not modelled	33.0	25	PDB header: transferase Chain: A: PDB Molecule: ytaa protein; PDBTitle: crystal structure of ytaa (2635576) from bacillus subtilis at 2.50 a2 resolution
80	c4pdyA	Alignment	not modelled	32.3	25	PDB header: transferase Chain: A: PDB Molecule: aminoglycoside phosphotransferase; PDBTitle: crystal structure of aminoglycoside phosphotransferase from2 alicyclobacillus acidocaldarius subsp. acidocaldarius dsm 446
81	c4ci6B	Alignment	not modelled	31.9	30	PDB header: transferase/structural protein Chain: B: PDB Molecule: protein kinase yopo; PDBTitle: mechanisms of crippling actin-dependent phagocytosis by yopo
82	c1ym7C	Alignment	not modelled	31.9	39	PDB header: transferase Chain: C: PDB Molecule: beta-adrenergic receptor kinase 1; PDBTitle: g protein-coupled receptor kinase 2 (grk2)
83	c5clrB	Alignment	not modelled	31.4	33	PDB header: transferase Chain: B: PDB Molecule: legk4; PDBTitle: crystal structure of legk4_apo kinase
84	c3c4yA	Alignment	not modelled	31.0	37	PDB header: transferase Chain: A: PDB Molecule: rhodopsin kinase; PDBTitle: crystal structure of apo form of g protein coupled receptor kinase 12 at 7.51a
85	c3epsB	Alignment	not modelled	30.6	17	PDB header: transferase, hydrolase Chain: B: PDB Molecule: isocitrate dehydrogenase kinase/phosphatase; PDBTitle: the crystal structure of isocitrate dehydrogenase kinase/phosphatase2 from e. coli
86	c3korD	Alignment	not modelled	30.4	22	PDB header: transcription Chain: D: PDB Molecule: possible trp repressor; PDBTitle: crystal structure of a putative trp repressor from staphylococcus2 aureus
87	c3f2rB	Alignment	not modelled	30.3	20	PDB header: transferase Chain: B: PDB Molecule: choline kinase alpha; PDBTitle: crystal structure of human choline kinase alpha in complex with2 hemicholinium-3
88	c4oauC	Alignment	not modelled	29.0	17	PDB header: hydrolase/rna Chain: C: PDB Molecule: 2-5a-dependent ribonuclease; PDBTitle: complete human rnase I in complex with biological activators.
89	c3tkuB	Alignment	not modelled	28.7	26	PDB header: transferase/transferase inhibitor Chain: B: PDB Molecule: serine/threonine-protein kinase mrck beta; PDBTitle: mrck beta in complex with fasudil
90	c3ckxA	Alignment	not modelled	28.6	15	PDB header: transferase Chain: A: PDB Molecule: serine/threonine-protein kinase 24; PDBTitle: crystal structure of sterile 20-like kinase 3 (mst3, stk24) in complex2 with staurosporine
91	d2ppqa1	Alignment	not modelled	28.0	13	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: APH phosphotransferases
92	c3frwF	Alignment	not modelled	27.1	14	PDB header: structural genomics, unknown function Chain: F: PDB Molecule: putative trp repressor protein; PDBTitle: crystal structure of putative trpr protein from ruminococcus obeum
93	d1nd4a	Alignment	not modelled	26.2	13	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: APH phosphotransferases
94	c4ww7A	Alignment	not modelled	25.5	26	PDB header: transferase Chain: A: PDB Molecule: ekc/keops complex subunit bud32; PDBTitle: crystal structure of binary complex bud32-cgi121 in complex with amp
95	c3gndC	Alignment	not modelled	25.2	29	PDB header: lyase Chain: C: PDB Molecule: aldolase lsrf; PDBTitle: crystal structure of e. coli lsrf in complex with ribulose-5-phosphate
96	c3nyoB	Alignment	not modelled	23.8	33	PDB header: transferase Chain: B: PDB Molecule: g protein-coupled receptor kinase 6; PDBTitle: crystal structure of g protein-coupled receptor kinase 6 in complex2 with amp
97	c3qa8A	Alignment	not modelled	23.6	26	PDB header: immune system, signaling protein Chain: A: PDB Molecule: mgc80376 protein; PDBTitle: crystal structure of inhibitor of kappa b kinase beta
98	c2hcuA	Alignment	not modelled	21.7	24	PDB header: lyase Chain: A: PDB Molecule: 3-isopropylmalate dehydratase small subunit; PDBTitle: crystal structure of smu.1381 (or leud) from streptococcus mutans
99	c4xpuA	Alignment	not modelled	21.6	22	PDB header: hydrolase Chain: A: PDB Molecule: endonuclease v; PDBTitle: the crystal structure of endov from e.coli
100	c5ckwA	Alignment	not modelled	21.4	39	PDB header: transferase Chain: A: PDB Molecule: legk4; PDBTitle: crystal structure of legk4_amppnp kinase
101	c2pkpA	Alignment	not modelled	21.3	24	PDB header: lyase Chain: A: PDB Molecule: homoaconitase small subunit; PDBTitle: crystal structure of 3-isopropylmalate dehydratase (leud)2 from methanocaldococcus jannaschii dsm2661 (mj1271)
102	c5uxbA	Alignment	not modelled	20.7	15	PDB header: transferase Chain: A: PDB Molecule: macrolide 2'-phosphotransferase mpph; PDBTitle: crystal structure of macrolide 2'-phosphotransferase mpph from2 brachybacterium faecium, apoenzyme
103	c2ckpB	Alignment	not modelled	20.3	21	PDB header: transferase Chain: B: PDB Molecule: choline kinase alpha; PDBTitle: crystal structure of human choline kinase alpha-2 in2

