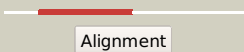

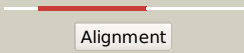



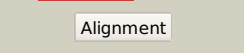



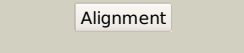

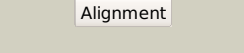
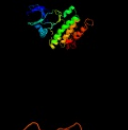


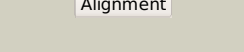

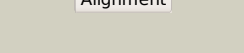

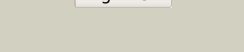




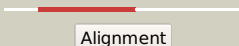







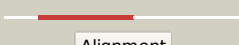







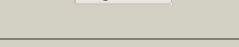
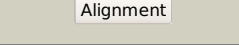
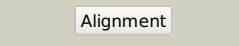
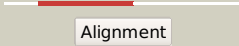
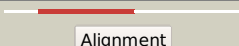



Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1743_(pknE)_1969011_1970711
Date	Fri Aug 2 13:30:34 BST 2019
Unique Job ID	e2db8d9db5ce218f

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5ebzF_	 Alignment		100.0	26	PDB header: transferase/transferase inhibitor Chain: F: PDB Molecule: inhibitor of nuclear factor kappa-b kinase subunit alpha; PDBTitle: crystal structure of human ikk1
2	c2pziA_	 Alignment		100.0	25	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 tetrahydrobenzothiothiophene ax20017
3	c3qa8H_	 Alignment		100.0	24	PDB header: immune system, signaling protein Chain: H: PDB Molecule: mgc80376 protein; PDBTitle: crystal structure of inhibitor of kappa b kinase beta
4	c3nyoB_	 Alignment		100.0	24	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
5	c4wnkA_	 Alignment		100.0	23	PDB header: ligase Chain: A: PDB Molecule: g protein-coupled receptor kinase 5; PDBTitle: crystal structure of bovine g protein coupled-receptor kinase 5 in2 complex with ccg215022
6	c3qa8A_	 Alignment		100.0	25	PDB header: immune system, signaling protein Chain: A: PDB Molecule: mgc80376 protein; PDBTitle: crystal structure of inhibitor of kappa b kinase beta
7	c3pfgA_	 Alignment		100.0	21	PDB header: transferase Chain: A: PDB Molecule: protein kinase c beta type; PDBTitle: crystal structure and allosteric activation of protein kinase c beta2 ii
8	c2acxB_	 Alignment		100.0	24	PDB header: transferase Chain: B: PDB Molecule: g protein-coupled receptor kinase 6; PDBTitle: crystal structure of g protein coupled receptor kinase 6 bound to2 amppnp
9	c4im2A_	 Alignment		100.0	21	PDB header: transferase/transferase inhibitor Chain: A: PDB Molecule: serine/threonine-protein kinase tbk1; PDBTitle: structure of tank-binding kinase 1
10	c4yhjA_	 Alignment		100.0	24	PDB header: transferase Chain: A: PDB Molecule: g protein-coupled receptor kinase 4; PDBTitle: structure and function of the hypertension variant a486v of g protein-2 coupled receptor kinase 4 (grk4)
11	c1ym7C_	 Alignment		100.0	22	PDB header: transferase Chain: C: PDB Molecule: beta-adrenergic receptor kinase 1; PDBTitle: g protein-coupled receptor kinase 2 (grk2)

12	c3c4wB_	 Alignment		100.0	24	PDB header: transferase Chain: B; PDB Molecule: rhodopsin kinase; PDBTitle: crystal structure of g protein coupled receptor kinase 1 bound to atp2 and magnesium chloride at 2.7a
13	c4i6hA_	 Alignment		100.0	27	PDB header: transferase/transferase inhibitor Chain: A; PDB Molecule: serine/threonine-protein kinase plk2; PDBTitle: selective & brain-permeable polo-like kinase-2 (plk-2) inhibitors that2 reduce alpha-synuclein phosphorylation in rat brain
14	c1koaA_	 Alignment		100.0	21	PDB header: kinase Chain: A; PDB Molecule: twitchin; PDBTitle: twitchin kinase fragment (c.elegans), autoregulated protein2 kinase and immunoglobulin domains
15	c4czuC_	 Alignment		100.0	24	PDB header: transferase Chain: C; PDB Molecule: cbl-interacting serine/threonine-protein kinase 23; PDBTitle: crystal structure of the kinase domain of cipk23 t190d mutant
16	c3c4yA_	 Alignment		100.0	25	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
17	c6c9dB_	 Alignment		100.0	26	PDB header: transferase Chain: B; PDB Molecule: serine/threonine-protein kinase mark1,serine/threonine- PDBTitle: crystal structure of ka1-autoinhibited mark1 kinase
18	c4c0tA_	 Alignment		100.0	21	PDB header: transferase Chain: A; PDB Molecule: likely protein kinase; PDBTitle: candida albicans pkh kinase domain
19	c4wb7B_	 Alignment		100.0	21	PDB header: transferase/transferase inhibitor Chain: B; PDB Molecule: dnaj homolog subfamily b member 1,camp-dependent protein PDBTitle: crystal structure of a chimeric fusion of human dnaj (hsp40) and camp-2 dependent protein kinase a (catalytic alpha subunit)
20	c5nclA_	 Alignment		100.0	24	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
21	c5uuuA_	 Alignment	not modelled	100.0	21	PDB header: transferase/transferase inhibitor Chain: A; PDB Molecule: beta-adrenergic receptor kinase 1; PDBTitle: design, synthesis, and evaluation of the first selective and potent g-2 protein-coupled receptor kinase 2 (grk2) inhibitor for the potential3 treatment of heart failure
22	c2fo0A_	 Alignment	not modelled	100.0	21	PDB header: transferase Chain: A; PDB Molecule: proto-oncogene tyrosine-protein kinase abl1 (1b isoform); PDBTitle: organization of the sh3-sh2 unit in active and inactive forms of the2 c-abl tyrosine kinase
23	c4myiA_	 Alignment	not modelled	100.0	27	PDB header: transferase Chain: A; PDB Molecule: cgmp-dependent protein kinase, putative; PDBTitle: crystal structure of pvx_084705
24	c4cfhA_	 Alignment	not modelled	100.0	24	PDB header: transferase Chain: A; PDB Molecule: 5'-amp-activated protein kinase catalytic subunit alpha-1; PDBTitle: structure of an active form of mammalian ampk
25	c3tkuB_	 Alignment	not modelled	100.0	22	PDB header: transferase/transferase inhibitor Chain: B; PDB Molecule: serine/threonine-protein kinase mrck beta; PDBTitle: mrck beta in complex with fasudil
26	c3q5iA_	 Alignment	not modelled	100.0	22	PDB header: transferase Chain: A; PDB Molecule: protein kinase; PDBTitle: crystal structure of pbanka_031420
27	c4b6iA_	 Alignment	not modelled	100.0	26	PDB header: transferase Chain: A; PDB Molecule: serine/threonine-protein kinase plk3; PDBTitle: discovery of oral polo-like kinase (plk) inhibitors with enhanced2 selectivity profile using residue targeted drug design
28	c5hmvA_	 Alignment	not modelled	100.0	26	PDB header: transferase Chain: A; PDB Molecule: ppka n terminal; PDBTitle: crystal structure of ppka

29	c3ckxA	Alignment	not modelled	100.0	27	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
30	c3soaA	Alignment	not modelled	100.0	24	PDB header: transferase/transferase inhibitor Chain: A: PDB Molecule: calcium/calmodulin-dependent protein kinase type ii subunit PDBTitle: full-length human camkii
31	c4eqmE	Alignment	not modelled	100.0	32	PDB header: transferase Chain: E: PDB Molecule: protein kinase; PDBTitle: structural analysis of staphylococcus aureus serine/threonine kinase2 pknb
32	c2c30A	Alignment	not modelled	100.0	25	PDB header: transferase Chain: A: PDB Molecule: serine/threonine-protein kinase pak 6; PDBTitle: crystal structure of the human p21-activated kinase 6
33	d2j4za1	Alignment	not modelled	100.0	21	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
34	c1oplA	Alignment	not modelled	100.0	21	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase; PDBTitle: structural basis for the auto-inhibition of c-abl tyrosine2 kinase
35	c6ccfB	Alignment	not modelled	100.0	26	PDB header: transferase/transferase inhibitor Chain: B: PDB Molecule: calcium/calmodulin-dependent protein kinase kinase 1; PDBTitle: crystal structure of the human camkk1a in complex with hesperadin
36	c2vwiC	Alignment	not modelled	100.0	25	PDB header: transferase Chain: C: PDB Molecule: serine/threonine-protein kinase osr1; PDBTitle: structure of the osr1 kinase, a hypertension drug target
37	c1mruB	Alignment	not modelled	100.0	36	PDB header: transferase Chain: B: PDB Molecule: probable serine/threonine-protein kinase pknb; PDBTitle: intracellular ser/thr protein kinase domain of mycobacterium2 tuberculosis pknb.
38	c4fijA	Alignment	not modelled	100.0	25	PDB header: transferase Chain: A: PDB Molecule: serine/threonine-protein kinase pak 4; PDBTitle: catalytic domain of human pak4
39	c4xi2A	Alignment	not modelled	100.0	17	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase btk; PDBTitle: crystal structure of an auto-inhibited form of bruton's tryrosine2 kinase
40	c6fdzU	Alignment	not modelled	100.0	25	PDB header: transferase Chain: U: PDB Molecule: serine/threonine-protein kinase ulk3; PDBTitle: unc-51-like kinase 3 (ulk3) in complex with momelotinib
41	c4fieB	Alignment	not modelled	100.0	25	PDB header: transferase Chain: B: PDB Molecule: serine/threonine-protein kinase pak 4; PDBTitle: full-length human pak4
42	c4x3fA	Alignment	not modelled	100.0	40	PDB header: transferase Chain: A: PDB Molecule: serine/threonine-protein kinase pkna; PDBTitle: crystal structure of the intracellular domain of the m. tuberculosis2 ser/thr kinase pkna
43	d1o6ya	Alignment	not modelled	100.0	38	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
44	c4y93A	Alignment	not modelled	100.0	19	PDB header: transferase Chain: A: PDB Molecule: non-specific protein-tyrosine kinase,non-specific protein- PDBTitle: crystal structure of the ph-th-kinase construct of bruton's tyrosine2 kinase (btk)
45	c4wnoA	Alignment	not modelled	100.0	25	PDB header: transferase/transferase inhibitor Chain: A: PDB Molecule: serine/threonine-protein kinase ulk1; PDBTitle: structure of ulk1 bound to an inhibitor
46	c5dfzB	Alignment	not modelled	100.0	19	PDB header: transferase Chain: B: PDB Molecule: serine/threonine-protein kinase vps15; PDBTitle: structure of vps34 complex ii from s. cerevisiae.
47	c2jamB	Alignment	not modelled	100.0	23	PDB header: transferase Chain: B: PDB Molecule: calcium/calmodulin-dependent protein kinase type 1g; PDBTitle: crystal structure of human calmodulin-dependent protein kinase i g
48	c2qg5D	Alignment	not modelled	100.0	25	PDB header: transferase Chain: D: PDB Molecule: calcium/calmodulin-dependent protein kinase; PDBTitle: cryptosporidium parvum calcium dependent protein kinase cgd7_1840
49	d1phka	Alignment	not modelled	100.0	22	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
50	c2j0kB	Alignment	not modelled	100.0	26	PDB header: transferase Chain: B: PDB Molecule: focal adhesion kinase 1; PDBTitle: crystal structure of a fragment of focal adhesion kinase containing2 the ferm and kinase domains.
51	c4fi2A	Alignment	not modelled	100.0	18	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase syk; PDBTitle: structural and biophysical characterization of the syk activation2 switch
52	c6eqiC	Alignment	not modelled	100.0	20	PDB header: transferase Chain: C: PDB Molecule: serine/threonine-protein kinase pink1, putative; PDBTitle: structure of pink1 bound to ubiquitin
53	c2y7jB	Alignment	not modelled	100.0	25	PDB header: transferase Chain: B: PDB Molecule: phosphorylase b kinase gamma catalytic chain, testis/liver PDBTitle: structure of human phosphorylase kinase, gamma 2 PDB header: transferase

54	c4y83B_	Alignment	not modelled	100.0	23	Chain: B; PDB Molecule: mitogen-activated protein kinase kinase kinase 8; PDBTitle: crystal structure of cot kinase domain in complex with 5-(2-amino-5-(2-(quinolin-3-yl)pyridin-3-yl)-1,3,4-oxadiazole-2(3h)-thione
55	d1opja_	Alignment	not modelled	100.0	21	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
56	d1qcfa3	Alignment	not modelled	100.0	22	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
57	c2h8hA_	Alignment	not modelled	100.0	22	PDB header: transferase Chain: A; PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: src kinase in complex with a quinazoline inhibitor
58	c2a27B_	Alignment	not modelled	100.0	22	PDB header: transferase Chain: B; PDB Molecule: death-associated protein kinase 2; PDBTitle: human drp-1 kinase, w305s s308a d40 mutant, crystal form with 82 monomers in the asymmetric unit
59	c4eutA_	Alignment	not modelled	100.0	20	PDB header: transferase/transferase inhibitor Chain: A; PDB Molecule: serine/threonine-protein kinase tbk1; PDBTitle: structure of bx-795 complexed with unphosphorylated human tbk1 kinase-2 uld domain
60	c2bmcD_	Alignment	not modelled	100.0	22	PDB header: transferase Chain: D; PDB Molecule: serine threonine-protein kinase 6; PDBTitle: aurora-2 t287d t288d complexed with pha-680632
61	c3lijA_	Alignment	not modelled	100.0	23	PDB header: transferase Chain: A; PDB Molecule: calcium/calmodulin dependent protein kinase with PDBTitle: crystal structure of full length cpdcpk3 (cgd5_820) in2 complex with ca2+ and amppnp
62	c2ozoA_	Alignment	not modelled	100.0	23	PDB header: transferase Chain: A; PDB Molecule: tyrosine-protein kinase zap-70; PDBTitle: autoinhibited intact human zap-70
63	c1y57A_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: A; PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: structure of unphosphorylated c-src in complex with an inhibitor
64	c5zjzB_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: B; PDB Molecule: serine/threonine-protein kinase dcl1; PDBTitle: crystal structure of dcl1-kd in complex with amppn
65	c4xhgA_	Alignment	not modelled	100.0	20	PDB header: transferase Chain: A; PDB Molecule: similar to uniprot p29295 saccharomyces cerevisiae ypl204w
66	c4btfA_	Alignment	not modelled	100.0	19	PDB header: transferase Chain: A; PDB Molecule: mixed lineage kinase domain-like protein; PDBTitle: structure of mlkl
67	c4dn5A_	Alignment	not modelled	100.0	27	PDB header: transferase Chain: A; PDB Molecule: mitogen-activated protein kinase kinase kinase 14; PDBTitle: crystal structure of nf-kb-inducing kinase (nik)
68	c3d9vA_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: A; PDB Molecule: rho-associated protein kinase 1; PDBTitle: crystal structure of rock i bound to h-1152p a di-2 methylated variant of fasudil
69	c2wtkC_	Alignment	not modelled	100.0	18	PDB header: transferase/metal-binding protein Chain: C; PDB Molecule: serine/threonine-protein kinase 11; PDBTitle: structure of the heterotrimeric lkb1-stradalpha-mo25alpha2 complex
70	c5d7vD_	Alignment	not modelled	100.0	21	PDB header: transferase Chain: D; PDB Molecule: protein-tyrosine kinase 6; PDBTitle: crystal structure of ptk6 kinase domain
71	d1jksa_	Alignment	not modelled	100.0	22	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
72	d1yhwa1	Alignment	not modelled	100.0	25	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
73	c5x3fB_	Alignment	not modelled	100.0	22	PDB header: transferase Chain: B; PDB Molecule: zpa963,camp-dependent protein kinase catalytic subunit PDBTitle: crystal structure of the ygjg-protein a-zpa963-pka catalytic domain
74	c5oatF_	Alignment	not modelled	100.0	22	PDB header: kinase Chain: F; PDB Molecule: serine/threonine-protein kinase pink1, mitochondrial-like PDBTitle: pink1 structure
75	c3zzwA_	Alignment	not modelled	100.0	23	PDB header: transferase Chain: A; PDB Molecule: tyrosine-protein kinase transmembrane receptor ror2; PDBTitle: crystal structure of the kinase domain of ror2
76	c3dfaA_	Alignment	not modelled	100.0	23	PDB header: transferase Chain: A; PDB Molecule: calcium-dependent protein kinase cgd3_920; PDBTitle: crystal structure of kinase domain of calcium-dependent protein kinase2 cgd3_920 from cryptosporidium parvum
77	c1k9aB_	Alignment	not modelled	100.0	23	PDB header: transferase Chain: B; PDB Molecule: carboxyl-terminal src kinase; PDBTitle: crystal structure analysis of full-length carboxyl-terminal2 src kinase at 2.5 a resolution
78	c2ya9A_	Alignment	not modelled	100.0	22	PDB header: transferase Chain: A; PDB Molecule: death-associated protein kinase 2; PDBTitle: crystal structure of the autoinhibited form of mouse dapk2
79	c1vidA_	Alignment	not modelled	100.0	23	PDB header: transferase Chain: A; PDB Molecule: protein kinase c, theta type;

79	c1ajua_	Alignment	not modelled	100.0	23	PDBTitle: crystal structure of pkc-theta complexed with staurosporine2 at 2a resolution
80	d1xjda_	Alignment	not modelled	100.0	23	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
81	c4cdsA_	Alignment	not modelled	100.0	25	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
82	c3hztA_	Alignment	not modelled	100.0	22	PDB header: transferase Chain: A; PDB Molecule: calcium-dependent protein kinase 3; PDBTitle: crystal structure of toxoplasma gondii cdpk3, tgme49 105860
83	c5ig1A_	Alignment	not modelled	100.0	22	PDB header: transferase Chain: A; PDB Molecule: camk/camk2 protein kinase; PDBTitle: crystal structure of s. rosetta camkii kinase domain
84	c2j51A_	Alignment	not modelled	100.0	23	PDB header: transferase Chain: A; PDB Molecule: ste20-like serine/threonine-protein kinase; PDBTitle: crystal structure of human ste20-like kinase bound to 5-2 amino-3-((4-(aminosulfonyl)phenyl)amino)-n-(2,6-3 difluorophenyl)-1h-1,2,4-triazole-1-carbothioamide
85	d1kooa2	Alignment	not modelled	100.0	22	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
86	c2bdwB_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: B; PDB Molecule: hypothetical protein k11e8.1d; PDBTitle: crystal structure of the auto-inhibited kinase domain of2 calcium/calmodulin activated kinase ii
87	c4qfrA_	Alignment	not modelled	100.0	21	PDB header: signaling protein/inhibitor/activator Chain: A; PDB Molecule: 5'-amp-activated protein kinase catalytic subunit alpha-1; PDBTitle: structure of ampk in complex with cl-a769662 activator and2 staurosporine inhibitor
88	c2zv2A_	Alignment	not modelled	100.0	26	PDB header: transferase/transferase inhibitor Chain: A; PDB Molecule: calcium/calmodulin-dependent protein kinase kinase 2; PDBTitle: crystal structure of human calcium/calmodulin-dependent protein kinase2 kinase 2, beta, camkk2 kinase domain in complex with sto-609
89	d1o6la_	Alignment	not modelled	100.0	22	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
90	c6cqdB_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: B; PDB Molecule: mitogen-activated protein kinase kinase kinase 1; PDBTitle: crystal structure of hpk1 in complex with atp analogue (amppnp)
91	c2wtkB_	Alignment	not modelled	100.0	20	PDB header: transferase/metal-binding protein Chain: B; PDB Molecule: ste20-related kinase adapter protein alpha; PDBTitle: structure of the heterotrimeric lkb1-stradalpha-mo25alpha2 complex
92	c4lqsA_	Alignment	not modelled	100.0	26	PDB header: transferase/transferase activator Chain: A; PDB Molecule: serine/threonine-protein kinase cbk1; PDBTitle: crystal structure of the cbk1-mob2 kinase-coactivator complex
93	c2wqmA_	Alignment	not modelled	100.0	25	PDB header: transferase Chain: A; PDB Molecule: serine/threonine-protein kinase nek7; PDBTitle: structure of apo human nek7
94	c2vd5A_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: A; PDB Molecule: dmpk protein; PDBTitle: structure of human myotonic dystrophy protein kinase in2 complex with the bisindolylmaleide inhibitor bim viii
95	c2a1aB_	Alignment	not modelled	100.0	22	PDB header: protein synthesis/transferase Chain: B; PDB Molecule: interferon-induced, double-stranded rna-activated protein PDBTitle: pkr kinase domain-eif2alpha complex
96	c4ci6B_	Alignment	not modelled	100.0	15	PDB header: transferase/structural protein Chain: B; PDB Molecule: protein kinase yopo; PDBTitle: mechanisms of crippling actin-dependent phagocytosis by yopo
97	d2jfla1	Alignment	not modelled	100.0	23	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
98	c4lqdB_	Alignment	not modelled	100.0	24	PDB header: signaling protein Chain: B; PDB Molecule: serine/threonine-protein kinase 3; PDBTitle: structural basis for autoactivation of human mst2 kinase and its2 regulation by rassf5
99	d1nvra_	Alignment	not modelled	100.0	25	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
100	d1qpca_	Alignment	not modelled	100.0	21	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
101	c2ivsA_	Alignment	not modelled	100.0	19	PDB header: transferase Chain: A; PDB Molecule: proto-oncogene tyrosine-protein kinase receptor ret; PDBTitle: crystal structure of non-phosphorylated ret tyrosine kinase domain
102	d1koba_	Alignment	not modelled	100.0	20	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
103	c2cgvA_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: A; PDB Molecule: serine/threonine-protein kinase chk1; PDBTitle: identification of chemically diverse chk1 inhibitors by2 receptor-based virtual screening PDB header: transferase

104	c3c0hB_	Alignment	not modelled	100.0	25	Chain: B; PDB Molecule: peripheral plasma membrane protein cask; PDBTitle: cask cam-kinase domain- amppnp complex, p1 form
105	c2r5tA_	Alignment	not modelled	100.0	25	PDB header: transferase Chain: A; PDB Molecule: serine/threonine-protein kinase sgk1; PDBTitle: crystal structure of inactive serum and glucocorticoid-regulated2 kinase 1 in complex with amp-pnp
106	c2r7bA_	Alignment	not modelled	100.0	25	PDB header: signaling protein, transferase Chain: A; PDB Molecule: phosphoinositide-dependent protein kinase 1; PDBTitle: crystal structure of the phosphoinositide-dependent kinase-2 1 (pdk-1)catalytic domain bound to a dibenzonaphthyridine3 inhibitor
107	c1kobB_	Alignment	not modelled	100.0	20	PDB header: kinase Chain: B; PDB Molecule: twitchin; PDBTitle: twitchin kinase fragment (aplysia), autoregulated protein2 kinase domain
108	c2c0iA_	Alignment	not modelled	100.0	23	PDB header: transferase Chain: A; PDB Molecule: tyrosine-protein kinase hck; PDBTitle: src family kinase hck with bound inhibitor a-420983
109	c2vz6A_	Alignment	not modelled	100.0	25	PDB header: transferase Chain: A; PDB Molecule: calcium calmodulin dependent protein kinase type ii alpha PDBTitle: structure of human calcium calmodulin dependent protein kinase type ii2 alpha (camk2a) in complex with indirubin e804
110	c6jkmA_	Alignment	not modelled	100.0	17	PDB header: transferase Chain: A; PDB Molecule: mitotic checkpoint control protein kinase bub1; PDBTitle: crystal structure of bubr1 kinase domain
111	c5o0yA_	Alignment	not modelled	100.0	27	PDB header: transferase Chain: A; PDB Molecule: serine/threonine-protein kinase tousled-like 2; PDBTitle: tlk2 kinase domain from human
112	d1uu3a_	Alignment	not modelled	100.0	25	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
113	c5j5tA_	Alignment	not modelled	100.0	24	PDB header: transferase/transferase inhibitor Chain: A; PDB Molecule: mitogen-activated protein kinase kinase kinase 3; PDBTitle: glk co-crystal structure with aminopyrrolopyrimidine inhibitor
114	c2bujA_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: A; PDB Molecule: serine/threonine-protein kinase 16; PDBTitle: crystal structure of the human serine-threonine kinase 16 in complex2 with staurosporine
115	c2clqA_	Alignment	not modelled	100.0	25	PDB header: transferase Chain: A; PDB Molecule: mitogen-activated protein kinase kinase kinase 5; PDBTitle: structure of mitogen-activated protein kinase kinase kinase 5
116	c3comB_	Alignment	not modelled	100.0	28	PDB header: transferase Chain: B; PDB Molecule: serine/threonine-protein kinase 4; PDBTitle: crystal structure of mst1 kinase
117	c3g0eA_	Alignment	not modelled	100.0	21	PDB header: transferase Chain: A; PDB Molecule: mast/stem cell growth factor receptor; PDBTitle: kit kinase domain in complex with sunitinib
118	c3cblA_	Alignment	not modelled	100.0	21	PDB header: transferase Chain: A; PDB Molecule: proto-oncogene tyrosine-protein kinase fes/fps; PDBTitle: crystal structure of human feline sarcoma viral oncogene homologue (v-2 fes) in complex with staurosporine and a consensus peptide
119	c2x4fA_	Alignment	not modelled	100.0	18	PDB header: transferase Chain: A; PDB Molecule: myosin light chain kinase family member 4; PDBTitle: the crystal structure of the human myosin light chain kinase2 loc340156.
120	c2h6dA_	Alignment	not modelled	100.0	23	PDB header: signaling protein,transferase Chain: A; PDB Molecule: 5'-amp-activated protein kinase catalytic subunit alpha-2; PDBTitle: protein kinase domain of the human 5'-amp-activated protein kinase2 catalytic subunit alpha-2 (ampk alpha-2 chain)