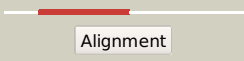

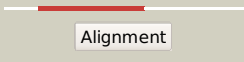

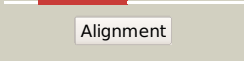

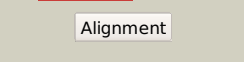

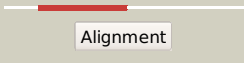

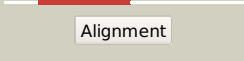

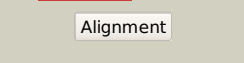

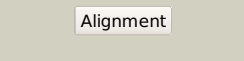

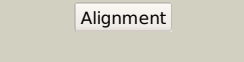

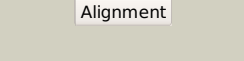

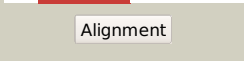
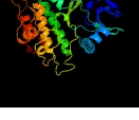





Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2088_(pkn)_2344419_2346188
Date	Mon Aug 5 13:25:20 BST 2019
Unique Job ID	c4f99be68a9155fb

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5ebzF_	 Alignment		100.0	23	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	25	PDB header: immune system, signaling protein Chain: H: PDB Molecule: mgc80376 protein; PDBTitle: crystal structure of inhibitor of kappa b kinase beta
4	c4im2A_	 Alignment		100.0	23	PDB header: transferase/transferase inhibitor Chain: A: PDB Molecule: serine/threonine-protein kinase tbk1; PDBTitle: structure of tank-binding kinase 1
5	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
6	c4wnkA_	 Alignment		100.0	22	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
7	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
8	c3pfgA_	 Alignment		100.0	24	PDB header: transferase Chain: A: PDB Molecule: protein kinase c beta type; PDBTitle: crystal structure and allosteric activation of protein kinase c beta2 ii
9	c1ym7C_	 Alignment		100.0	27	PDB header: transferase Chain: C: PDB Molecule: beta-adrenergic receptor kinase 1; PDBTitle: g protein-coupled receptor kinase 2 (grk2)
10	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
11	c4yhjA_	 Alignment		100.0	21	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)

12	c3c4wB_	 Alignment		100.0	25	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	c3c4yA_	 Alignment		100.0	26	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
14	c1koaA_	 Alignment		100.0	23	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	28	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	c4myiA_	 Alignment		100.0	25	PDB header: transferase Chain: A: PDB Molecule: cgmp-dependent protein kinase, putative; PDBTitle: crystal structure of pvx_084705
17	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)
18	c4i6hA_	 Alignment		100.0	22	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
19	c5hmvA_	 Alignment		100.0	26	PDB header: transferase Chain: A: PDB Molecule: ppka n terminal; PDBTitle: crystal structure of ppka
20	c3soaA_	 Alignment		100.0	25	PDB header: transferase/transferase inhibitor Chain: A: PDB Molecule: calcium/calmodulin-dependent protein kinase type ii subunit PDBTitle: full-length human camkii
21	c2fo0A_	 Alignment	not modelled	100.0	23	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
22	c6c9dB_	 Alignment	not modelled	100.0	25	PDB header: transferase Chain: B: PDB Molecule: serine/threonine-protein kinase mark1,serine/threonine- PDBTitle: crystal structure of ka1-autoinhibited mark1 kinase
23	c3q5iA_	 Alignment	not modelled	100.0	23	PDB header: transferase Chain: A: PDB Molecule: protein kinase; PDBTitle: crystal structure of pbanka_031420
24	c5uuuA_	 Alignment	not modelled	100.0	27	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
25	c5nclA_	 Alignment	not modelled	100.0	27	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
26	c3tkuB_	 Alignment	not modelled	100.0	28	PDB header: transferase/transferase inhibitor Chain: B: PDB Molecule: serine/threonine-protein kinase mrck beta; PDBTitle: mrck beta in complex with fasudil
27	c4c0tA_	 Alignment	not modelled	100.0	23	PDB header: transferase Chain: A: PDB Molecule: likely protein kinase; PDBTitle: candida albicans pkh kinase domain
28	c4cfhA_	 Alignment	not modelled	100.0	25	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 PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase; PDBTitle: structural basis for the auto-inhibition of c-abl tyrosine2 kinase
29	c1op1A_	Alignment	not modelled	100.0	23
30	c6ccfB_	Alignment	not modelled	100.0	25
31	c3ckxA_	Alignment	not modelled	100.0	29
32	c1mruB_	Alignment	not modelled	100.0	43
33	c2vwiC_	Alignment	not modelled	100.0	28
34	c4eqmE_	Alignment	not modelled	100.0	29
35	c2c30A_	Alignment	not modelled	100.0	28
36	c4eutA_	Alignment	not modelled	100.0	24
37	c5dfzB_	Alignment	not modelled	100.0	15
38	c4b61A_	Alignment	not modelled	100.0	25
39	d2j4za1	Alignment	not modelled	100.0	29
40	d1o6ya_	Alignment	not modelled	100.0	44
41	c4x3fA_	Alignment	not modelled	100.0	34
42	c4fijA_	Alignment	not modelled	100.0	25
43	c4xhgA_	Alignment	not modelled	100.0	20
44	c4xi2A_	Alignment	not modelled	100.0	20
45	c4fieB_	Alignment	not modelled	100.0	25
46	c2jamB_	Alignment	not modelled	100.0	26
47	c4y93A_	Alignment	not modelled	100.0	20
48	c4wnoA_	Alignment	not modelled	100.0	29
49	c2a27B_	Alignment	not modelled	100.0	23
50	c3d9vA_	Alignment	not modelled	100.0	26
51	c2qg5D_	Alignment	not modelled	100.0	25
52	d1jksa_	Alignment	not modelled	100.0	22
53	c5oatF_	Alignment	not modelled	100.0	22
					PDB header: kinase Chain: F: PDB Molecule: serine/threonine-protein kinase pink1, mitochondrial-like PDBTitle: pink1 structure

54	c5jzjB_	Alignment	not modelled	100.0	27	PDB header: transferase Chain: B: PDB Molecule: serine/threonine-protein kinase dclk1; PDBTitle: crystal structure of dclk1-kd in complex with amppn
55	c3dfaA_	Alignment	not modelled	100.0	25	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
56	c6eqiC_	Alignment	not modelled	100.0	17	PDB header: transferase Chain: C: PDB Molecule: serine/threonine-protein kinase pink1, putative; PDBTitle: structure of pink1 bound to ubiquitin
57	c2wtkC_	Alignment	not modelled	100.0	21	PDB header: transferase/metal-binding protein Chain: C: PDB Molecule: serine/threonine-protein kinase 11; PDBTitle: structure of the heterotrimeric lkb1-stradalpha-mo25alpha2 complex
58	c2j0kB_	Alignment	not modelled	100.0	27	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.
59	c6fdzU_	Alignment	not modelled	100.0	26	PDB header: transferase Chain: U: PDB Molecule: serine/threonine-protein kinase ulk3; PDBTitle: unc-51-like kinase 3 (ulk3) in complex with momelotinib
60	d1yhwa1	Alignment	not modelled	100.0	26	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
61	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
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	c4y83B_	Alignment	not modelled	100.0	25	PDB header: transferase 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
64	c2y7jB_	Alignment	not modelled	100.0	22	PDB header: transferase Chain: B: PDB Molecule: phosphorylase b kinase gamma catalytic chain, testis/liver PDBTitle: structure of human phosphorylase kinase, gamma 2
65	c3lijA_	Alignment	not modelled	100.0	26	PDB header: transferase Chain: A: PDB Molecule: calcium/calmodulin dependent protein kinase with PDBTitle: crystal structure of full length cpckp3 (cgd5_820) in2 complex with ca2+ and amppnp
66	d1phka_	Alignment	not modelled	100.0	21	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
67	c1y57A_	Alignment	not modelled	100.0	22	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase src; PDBTitle: structure of unphosphorylated c-src in complex with an inhibitor
68	c4fl2A_	Alignment	not modelled	100.0	21	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase syk; PDBTitle: structural and biophysical characterization of the syk activation2 switch
69	c4dn5A_	Alignment	not modelled	100.0	28	PDB header: transferase Chain: A: PDB Molecule: mitogen-activated protein kinase kinase kinase 14; PDBTitle: crystal structure of nf-kb-inducing kinase (nik)
70	d1qcfa3	Alignment	not modelled	100.0	22	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
71	c4btfA_	Alignment	not modelled	100.0	21	PDB header: transferase Chain: A: PDB Molecule: mixed lineage kinase domain-like protein; PDBTitle: structure of mlkl
72	d1kooa2	Alignment	not modelled	100.0	23	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
73	c3zzwA_	Alignment	not modelled	100.0	22	PDB header: transferase Chain: A: PDB Molecule: tyrosine-protein kinase transmembrane receptor ror2; PDBTitle: crystal structure of the kinase domain of ror2
74	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
75	d1lopja_	Alignment	not modelled	100.0	23	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
76	c2ya9A_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: A: PDB Molecule: death-associated protein kinase 2; PDBTitle: crystal structure of the autoinhibited form of mouse dapk2
77	c3hztA_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: A: PDB Molecule: calcium-dependent protein kinase 3; PDBTitle: crystal structure of toxoplasma gondii cdpk3, tgme49_105860
78	c5d7vD_	Alignment	not modelled	100.0	19	PDB header: transferase Chain: D: PDB Molecule: protein-tyrosine kinase 6; PDBTitle: crystal structure of ptk6 kinase domain
79	c2bmcD_	Alianment	not modelled	100.0	30	PDB header: transferase Chain: D: PDB Molecule: serine threonine-protein kinase 6;

						PDBTitle: aurora-2 t287d t288d complexed with pha-680632
80	c2rsvA_	Alignment	not modelled	100.0	17	PDB header: transferase Chain: A: PDB Molecule: serine/threonine-protein kinase vrk1; PDBTitle: solution structure of human full-length vaccinia related kinase 12 (vrk1)
81	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 ygig-protein a-zpa963-pka catalytic domain
82	c5ig1A_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: A: PDB Molecule: camk/camk2 protein kinase; PDBTitle: crystal structure of s. rosetta camkii kinase domain
83	c1xjdA_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: A: PDB Molecule: protein kinase c, theta type; PDBTitle: crystal structure of pkc-theta complexed with staurosporine2 at 2a resolution
84	d1xjda_	Alignment	not modelled	100.0	24	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
85	c2bdwB_	Alignment	not modelled	100.0	25	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
86	c4ci6B_	Alignment	not modelled	100.0	19	PDB header: transferase/structural protein Chain: B: PDB Molecule: protein kinase yopo; PDBTitle: mechanisms of crippling actin-dependent phagocytosis by yopo
87	d1koba_	Alignment	not modelled	100.0	23	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
88	c2a1aB_	Alignment	not modelled	100.0	26	PDB header: protein synthesis/transferase Chain: B: PDB Molecule: interferon-induced, double-stranded rna-activated protein PDBTitle: pkr kinase domain-eif2alpha complex
89	c4cdaA_	Alignment	not modelled	100.0	26	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
90	c2zv2A_	Alignment	not modelled	100.0	25	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
91	c1kobB_	Alignment	not modelled	100.0	23	PDB header: kinase Chain: B: PDB Molecule: twitchin; PDBTitle: twitchin kinase fragment (aplysia), autoregulated protein2 kinase domain
92	c2vd5A_	Alignment	not modelled	100.0	26	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
93	c5o0yA_	Alignment	not modelled	100.0	22	PDB header: transferase Chain: A: PDB Molecule: serine/threonine-protein kinase tousled-like 2; PDBTitle: tlk2 kinase domain from human
94	c6jkmA_	Alignment	not modelled	100.0	18	PDB header: transferase Chain: A: PDB Molecule: mitotic checkpoint control protein kinase bub1; PDBTitle: crystal structure of bubr1 kinase domain
95	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
96	c2j51A_	Alignment	not modelled	100.0	28	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
97	d1o6la_	Alignment	not modelled	100.0	28	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
98	c4qfrA_	Alignment	not modelled	100.0	24	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
99	c6cqdB_	Alignment	not modelled	100.0	30	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)
100	c2ivsA_	Alignment	not modelled	100.0	18	PDB header: transferase Chain: A: PDB Molecule: proto-oncogene tyrosine-protein kinase receptor ret; PDBTitle: crystal structure of non-phosphorylated ret tyrosine kinase domain
101	c3fbvL_	Alignment	not modelled	100.0	24	PDB header: transferase, hydrolase Chain: L: PDB Molecule: serine/threonine-protein kinase/endoribonuclease ire1; PDBTitle: crystal structure of the oligomer formed by the kinase-ribonuclease2 domain of ire1
102	c2wtkB_	Alignment	not modelled	100.0	25	PDB header: transferase/metal-binding protein Chain: B: PDB Molecule: ste20-related kinase adapter protein alpha; PDBTitle: structure of the heterotrimeric lkb1-stradalphamo25alpha2 complex
						PDB header: transferase Chain: A: PDB Molecule: myosin light chain kinase family member

103	c2x4fA_	Alignment	not modelled	100.0	20	4; PDBTitle: the crystal structure of the human myosin light chain kinase2 loc340156.
104	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
105	c3g0eA_	Alignment	not modelled	100.0	23	PDB header: transferase Chain: A: PDB Molecule: mast/stem cell growth factor receptor; PDBTitle: kit kinase domain in complex with sunitinib
106	d2jfla1	Alignment	not modelled	100.0	27	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
107	c3c0hB_	Alignment	not modelled	100.0	26	PDB header: transferase Chain: B: PDB Molecule: peripheral plasma membrane protein cask; PDBTitle: cask cam-kinase domain- amppnp complex, p1 form
108	d1tkia_	Alignment	not modelled	100.0	21	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
109	c2vz6A_	Alignment	not modelled	100.0	26	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	c2cgvA_	Alignment	not modelled	100.0	23	PDB header: transferase Chain: A: PDB Molecule: serine/threonine-protein kinase chk1; PDBTitle: identification of chemically diverse chk1 inhibitors by2 receptor-based virtual screening
111	c4btjB_	Alignment	not modelled	100.0	20	PDB header: transferase Chain: B: PDB Molecule: tau-tubulin kinase 1; PDBTitle: ttbk1 in complex with atp
112	c2chlA_	Alignment	not modelled	100.0	17	PDB header: transferase Chain: A: PDB Molecule: casein kinase i isoform gamma-3; PDBTitle: structure of casein kinase 1 gamma 3
113	d1qpca_	Alignment	not modelled	100.0	21	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
114	d1nvra_	Alignment	not modelled	100.0	23	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
115	c4mvfA_	Alignment	not modelled	100.0	26	PDB header: transferase/transferase inhibitor Chain: A: PDB Molecule: calcium-dependent protein kinase 2; PDBTitle: crystal structure of plasmodium falciparum cdpk2 complexed with2 inhibitor staurosporine
116	c2bujA_	Alignment	not modelled	100.0	25	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
117	c4lqdB_	Alignment	not modelled	100.0	27	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
118	d1ckia_	Alignment	not modelled	100.0	19	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
119	c2kulA_	Alignment	not modelled	100.0	19	PDB header: transferase Chain: A: PDB Molecule: serine/threonine-protein kinase vrk1; PDBTitle: solution structure of human vaccinia related kinase 1(vrk1)
120	c2r7bA_	Alignment	not modelled	100.0	26	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