

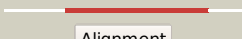

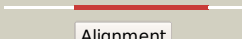



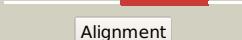



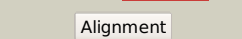

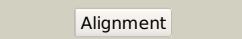

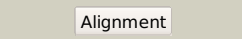

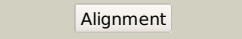

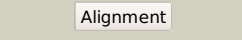








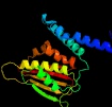



Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD3220c (-) _3596026_3597531
Date	Thu Aug 8 16:20:42 BST 2019
Unique Job ID	0ae869d57d9d24c7

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4gczB_	 Alignment		100.0	15	PDB header: signaling protein, de novo protein Chain: B; PDB Molecule: blue-light photoreceptor, sensor protein fixl; PDBTitle: structure of a blue-light photoreceptor
2	c4i5sA_	 Alignment		100.0	17	PDB header: transferase Chain: A; PDB Molecule: putative histidine kinase covs; vick-like protein; PDBTitle: structure and function of sensor histidine kinase
3	c3a0rA_	 Alignment		100.0	17	PDB header: transferase Chain: A; PDB Molecule: sensor protein; PDBTitle: crystal structure of histidine kinase thka (tm1359) in complex with2 response regulator protein trra (tm1360)
4	c4r3aA_	 Alignment		100.0	17	PDB header: signaling protein Chain: A; PDB Molecule: blue-light-activated histidine kinase 2; PDBTitle: erythrobacter litoralis el346 blue-light activated histidine kinase
5	c4ew8A_	 Alignment		100.0	20	PDB header: transferase Chain: A; PDB Molecule: sensor protein divl; PDBTitle: crystal structure of a c-terminal part of tyrosine kinase (divl) from2 caulobacter crescentus cb15 at 2.50 a resolution (psi community3 target, shapiro l.)
6	c2c2aA_	 Alignment		100.0	19	PDB header: transferase Chain: A; PDB Molecule: sensor histidine kinase; PDBTitle: structure of the entire cytoplasmic portion of a sensor2 histidine kinase protein
7	c3d36B_	 Alignment		100.0	17	PDB header: transferase/transferase inhibitor Chain: B; PDB Molecule: sporulation kinase b; PDBTitle: how to switch off a histidine kinase: crystal structure of2 geobacillus stearothermophilus kinb with the inhibitor sda
8	c5idjA_	 Alignment		100.0	23	PDB header: transferase Chain: A; PDB Molecule: cell cycle histidine kinase ccka; PDBTitle: bifunctional histidine kinase ccka (domains dhp-ca) in complex with2 adp/mg2+
9	c4u7nA_	 Alignment		100.0	18	PDB header: transferase Chain: A; PDB Molecule: histidine protein kinase sensor protein; PDBTitle: inactive structure of histidine kinase
10	c3d2rB_	 Alignment		100.0	13	PDB header: transferase Chain: B; PDB Molecule: [pyruvate dehydrogenase [lipoamide]] kinase isozyme 4; PDBTitle: crystal structure of pyruvate dehydrogenase kinase isoform 4 in2 complex with adp
11	c4kp4B_	 Alignment		100.0	16	PDB header: transferase/signaling protein Chain: B; PDB Molecule: osmolarity sensor protein envz, histidine kinase; PDBTitle: deciphering cis-trans directionality and visualizing2 autophosphorylation in histidine kinases.

12	c2q8fA_	Alignment		100.0	14	PDB header: transferase Chain: A: PDB Molecule: [pyruvate dehydrogenase [lipoamide]] kinase isozyme 1; PDBTitle: structure of pyruvate dehydrogenase kinase isoform 1
13	c2bu8A_	Alignment		100.0	14	PDB header: transferase Chain: A: PDB Molecule: pyruvate dehydrogenase kinase isoenzyme 2; PDBTitle: crystal structures of human pyruvate dehydrogenase kinase 2 containing2 physiological and synthetic ligands
14	c3crfB_	Alignment		100.0	14	PDB header: transferase Chain: B: PDB Molecule: pyruvate dehydrogenase [lipoamide] kinase isozyme 2, PDBTitle: crystal structure of the pdhk2-l2 complex.
15	c6dk8B_	Alignment		100.0	20	PDB header: signaling protein Chain: B: PDB Molecule: rets (regulator of exopolysaccharide and type iii PDBTitle: rets kinase region without cobalt
16	c4biyD_	Alignment		100.0	19	PDB header: transferase Chain: D: PDB Molecule: sensor protein cpxa; PDBTitle: crystal structure of cpxahdc (monoclinic form 2)
17	c1qjvA_	Alignment		100.0	14	PDB header: transferase Chain: A: PDB Molecule: [3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase; PDBTitle: branched-chain alpha-ketoacid dehydrogenase kinase (bck) complexed with2 atp-gamma-s
18	c3tz5A_	Alignment		100.0	16	PDB header: transferase/transferase inhibitor Chain: A: PDB Molecule: [3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase, PDBTitle: crystal structure of branched-chain alpha-ketoacid dehydrogenase2 kinase/phenylbutyrate complex with adp
19	c1y8oA_	Alignment		100.0	14	PDB header: transferase Chain: A: PDB Molecule: [pyruvate dehydrogenase [lipoamide]] kinase isozyme 3; PDBTitle: crystal structure of the pdk3-l2 complex
20	c4r39A_	Alignment		100.0	28	PDB header: transferase Chain: A: PDB Molecule: blue-light-activated histidine kinase 2; PDBTitle: histidine kinase domain from erythrobacter litoralis el346 blue-light2 activated histidine kinase
21	c4biuB_	Alignment	not modelled	100.0	19	PDB header: transferase Chain: B: PDB Molecule: sensor protein cpxa; PDBTitle: crystal structure of cpxahdc (orthorhombic form 1)
22	c1b3qA_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: A: PDB Molecule: protein (chemotaxis protein chea); PDBTitle: crystal structure of chea-289, a signal transducing histidine kinase
23	c5idmA_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: A: PDB Molecule: cell cycle histidine kinase ccka; PDBTitle: bifunctional histidine kinase ccka (domain, ca) in complex with c-di-2 gmp and amppnp/mg2+
24	c2ykfA_	Alignment	not modelled	99.9	95	PDB header: transferase Chain: A: PDB Molecule: probable sensor histidine kinase pdtas; PDBTitle: sensor region of a sensor histidine kinase
25	c3a0tA_	Alignment	not modelled	99.9	25	PDB header: transferase Chain: A: PDB Molecule: sensor protein; PDBTitle: catalytic domain of histidine kinase thka (tm1359) in complex with adp2 and mg ion (trigonal)
26	d2c2aa2	Alignment	not modelled	99.9	20	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: Histidine kinase
27	c5epvB_	Alignment	not modelled	99.9	18	PDB header: transferase Chain: B: PDB Molecule: blue-light-activated histidine kinase; PDBTitle: histidine kinase domain from the lov-hk blue-light receptor from2 brucella abortus
28	c2ch4A_	Alignment	not modelled	99.9	27	PDB header: transferase/chemotaxis Chain: A: PDB Molecule: chemotaxis protein chea; PDBTitle: complex between bacterial chemotaxis histidine kinase chea2 domains p4 and p5 and receptor-adaptor protein chew

29	d1i58a_	Alignment	not modelled	99.9	27	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: Histidine kinase
30	d1gkza2	Alignment	not modelled	99.9	20	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: alpha-ketoacid dehydrogenase kinase, C-terminal domain
31	c3sl2A_	Alignment	not modelled	99.9	19	PDB header: transferase Chain: A: PDB Molecule: sensor histidine kinase yycg; PDBTitle: atp forms a stable complex with the essential histidine kinase walk2 (yycg) domain
32	c6blkB_	Alignment	not modelled	99.9	28	PDB header: transferase Chain: B: PDB Molecule: signal transduction histidine-protein kinase/phosphatase PDBTitle: mycobacterial sensor histidine kinase mprb
33	d1ld0a_	Alignment	not modelled	99.9	20	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: Histidine kinase
34	d1bxda_	Alignment	not modelled	99.9	20	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: Histidine kinase
35	c6nb0A_	Alignment	not modelled	99.9	14	PDB header: transferase Chain: A: PDB Molecule: histidine kinase; PDBTitle: crystal structure of histidine kinase from burkholderia phymatum2 stm815
36	c4fmtB_	Alignment	not modelled	99.9	12	PDB header: transferase Chain: B: PDB Molecule: chpt protein; PDBTitle: crystal structure of a chpt protein (cc_3470) from caulobacter2 crescentus cb15 at 2.30 a resolution
37	d1jm6a2	Alignment	not modelled	99.9	16	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: alpha-ketoacid dehydrogenase kinase, C-terminal domain
38	c4pl9A_	Alignment	not modelled	99.9	22	PDB header: transferase Chain: A: PDB Molecule: ethylene receptor 1; PDBTitle: structure of the catalytic domain of etr1 from arabidopsis thaliana
39	d1ysra1	Alignment	not modelled	99.9	20	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: Histidine kinase
40	c3jz3B_	Alignment	not modelled	99.9	15	PDB header: transferase Chain: B: PDB Molecule: sensor protein qsec; PDBTitle: structure of the cytoplasmic segment of histidine kinase qsec
41	c4qpka_	Alignment	not modelled	99.9	12	PDB header: signaling protein Chain: A: PDB Molecule: phosphotransferase; PDBTitle: 1.7 angstrom structure of a bacterial phosphotransferase
42	c4gt8A_	Alignment	not modelled	99.9	18	PDB header: transferase Chain: A: PDB Molecule: sensor protein vras; PDBTitle: crystal structure of the catalytic and atp-binding domain from vras in2 complex with adp
43	c3gieA_	Alignment	not modelled	99.9	18	PDB header: transferase Chain: A: PDB Molecule: sensor histidine kinase desk; PDBTitle: crystal structure of deskc_h188e in complex with amp-pcp
44	c6e95A_	Alignment	not modelled	99.9	14	PDB header: signaling protein Chain: A: PDB Molecule: staphylococcus aureus agrc histidine kinase module fused to PDBTitle: chimeric structure of saccharomyces cerevisiae gcn4 leucine zipper2 fused to staphylococcus aureus agrc cytoplasmic histidine kinase3 module (dataset isotropically truncated by hkl2000)
45	d1r62a_	Alignment	not modelled	99.8	18	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: Histidine kinase
46	c3zxqA_	Alignment	not modelled	99.8	25	PDB header: transferase Chain: A: PDB Molecule: hypoxia sensor histidine kinase response regulator dost; PDBTitle: crystal structure of the atp-binding domain of mycobacterium2 tuberculosis dost
47	c3ehgA_	Alignment	not modelled	99.8	22	PDB header: transferase Chain: A: PDB Molecule: sensor kinase (yocf protein); PDBTitle: crystal structure of the atp-binding domain of desk in complex with2 atp
48	c4ctiA_	Alignment	not modelled	99.8	19	PDB header: signaling protein Chain: A: PDB Molecule: osmolarity sensor protein envz, af1503; PDBTitle: escherichia coli envz histidine kinase catalytic part fused to2 archaeoglobus fulgidus af1503 hamp domain
49	c3zxoB_	Alignment	not modelled	99.7	28	PDB header: transferase Chain: B: PDB Molecule: redox sensor histidine kinase response regulator devs; PDBTitle: crystal structure of the mutant atp-binding domain of2 mycobacterium tuberculosis doss
50	c4hh2D_	Alignment	not modelled	99.7	20	PDB header: transcription Chain: D: PDB Molecule: transcriptional regulator, ppsr; PDBTitle: structure of ppsr without the hth motif from rb. sphaeroides
51	d2hkja3	Alignment	not modelled	99.6	23	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase

						Family: DNA gyrase/MutL, N-terminal domain PDB header: transferase/transcription regulator Chain: G: PDB Molecule: pts-dependent dihydroxyacetone kinase operon regulatory PDBTitle: crystal structure of the e.coli dhar(n)-dhal complex
52	c4lrzG_	Alignment	not modelled	99.6	9	PDB header: atp-binding protein Chain: A: PDB Molecule: accessory gene regulator protein c; PDBTitle: crystal structure of atp binding domain of agrc from2 staphylococcus aureus
53	c4bxiA_	Alignment	not modelled	99.6	17	Fold: Sporulation response regulatory protein Spo0B Superfamily: Sporulation response regulatory protein Spo0B Family: Sporulation response regulatory protein Spo0B
54	d1ixma_	Alignment	not modelled	99.6	16	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: Histidine kinase
55	d1th8a_	Alignment	not modelled	99.6	24	PDB header: isomerase Chain: D: PDB Molecule: type ii dna topoisomerase vi subunit b; PDBTitle: structure of topoisomerase subunit
56	c1mx0D_	Alignment	not modelled	99.5	17	PDB header: isomerase Chain: B: PDB Molecule: type 2 dna topoisomerase 6 subunit b; PDBTitle: crystal structure of an intact type ii dna topoisomerase:2 insights into dna transfer mechanisms
57	c2zkbB_	Alignment	not modelled	99.4	17	PDB header: transcription/activator Chain: B: PDB Molecule: bmal1b; PDBTitle: crystal structure of the heterodimeric clock:bmal1 transcriptional2 activator complex
58	c4f3lB_	Alignment	not modelled	99.4	13	PDB header: isomerase Chain: B: PDB Molecule: type 2 dna topoisomerase 6 subunit b; PDBTitle: crystal structure of the topoisomerase vi holoenzyme from2 methanosarcina mazei
59	c2q2eB_	Alignment	not modelled	99.4	15	PDB header: circadian clock protein Chain: A: PDB Molecule: period circadian protein; PDBTitle: structure of an enclosed dimer formed by the drosophila period protein
60	c3rtyA_	Alignment	not modelled	99.3	13	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: DNA gyrase/MutL, N-terminal domain
61	d1h7sa2	Alignment	not modelled	99.3	19	PDB header: protein transport/transcription Chain: A: PDB Molecule: aryl hydrocarbon receptor nuclear translocator; PDBTitle: crystal structure of the heterodimeric hif-2a:arnt complex
62	c4zp4A_	Alignment	not modelled	99.2	13	PDB header: transcription/activator Chain: A: PDB Molecule: circadian locomoter output cycles protein kaput; PDBTitle: crystal structure of the heterodimeric clock:bmal1 transcriptional2 activator complex
63	c4f3lA_	Alignment	not modelled	99.2	11	PDB header: signaling protein Chain: A: PDB Molecule: lov protein; PDBTitle: crystal structure of rhodobacter sphaeroides lov protein
64	c4hj6A_	Alignment	not modelled	99.2	10	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: alpha-ketoacid dehydrogenase kinase, C-terminal domain
65	d1y8oa2	Alignment	not modelled	99.2	16	PDB header: transcription Chain: B: PDB Molecule: period circadian protein homolog 2; PDBTitle: mammalian clock protein mper2 - crystal structure of a pas domain2 fragment
66	c3gdiB_	Alignment	not modelled	99.1	9	PDB header: signaling protein Chain: D: PDB Molecule: bacteriophytochrome, pas/pac sensor; PDBTitle: crystal structure of the bacteriophytochrome rbbphp1
67	c4ehoD_	Alignment	not modelled	99.1	9	PDB header: protein transport/transcription Chain: D: PDB Molecule: endothelial pas domain-containing protein 1; PDBTitle: crystal structure of the heterodimeric hif-2a:arnt complex
68	c4zp4D_	Alignment	not modelled	99.1	11	PDB header: protein binding Chain: B: PDB Molecule: period circadian protein homolog 3; PDBTitle: unwinding the differences of the mammalian period clock proteins from2 crystal structure to cellular function
69	c4dj3B_	Alignment	not modelled	99.1	9	PDB header: transferase Chain: A: PDB Molecule: sensor protein; PDBTitle: crystal structure of pas domain of htr-like protein from haloarcula2 marismortui
70	c3bwlA_	Alignment	not modelled	99.0	11	Fold: Profilin-like Superfamily: PYP-like sensor domain (PAS domain) Family: Heme-binding PAS domain
71	d1ew0a_	Alignment	not modelled	99.0	16	PDB header: transferase Chain: C: PDB Molecule: sensor protein; PDBTitle: crystal structure of sensory box sensor histidine kinase from vibrio2 cholerae
72	c3mxqC_	Alignment	not modelled	99.0	10	PDB header: flavoprotein Chain: A: PDB Molecule: sensor protein; PDBTitle: structure of the redox sensor domain of methylococcus capsulatus2 (bath) mmos
73	c3ewkA_	Alignment	not modelled	99.0	14	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: DNA gyrase/MutL, N-terminal domain
74	d1bkna2	Alignment	not modelled	99.0	21	PDB header: circadian clock protein Chain: A: PDB Molecule: period circadian protein; PDBTitle: crystal structure of a tandem pas domain fragment of2 drosophila period
75	c3gecA_	Alignment	not modelled	99.0	12	PDB header: circadian rhythm Chain: A: PDB Molecule: period circadian protein;
76	c1wa0A_	Alignment	not modelled	99.0	13	

76	c1wa9A_	Alignment	not modelled	99.0	13	PDBTitle: crystal structure of the pas repeat region of the2 drosophila clock protein period
77	c3caxA_	Alignment	not modelled	99.0	13	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: uncharacterized protein pf0695; PDBTitle: crystal structure of uncharacterized protein pf0695
78	c4zprB_	Alignment	not modelled	99.0	13	PDB header: protein transport/transcription/dna Chain: B; PDB Molecule: hypoxia-inducible factor 1-alpha; PDBTitle: crystal structure of the heterodimeric hif-1a:arnt complex with hre2 dna
79	c2gj3A_	Alignment	not modelled	99.0	14	PDB header: transferase Chain: A; PDB Molecule: nitrogen fixation regulatory protein; PDBTitle: crystal structure of the fad-containing pas domain of the protein nif2 from azotobacter vinelandii.
80	c3mqoB_	Alignment	not modelled	99.0	9	PDB header: transcription regulator Chain: B; PDB Molecule: transcriptional regulator, luxr family; PDBTitle: the crystal structure of the pas domain in complex with isopropanol of 2 a transcriptional regulator in the luxr family from burkholderia3 thailandensis to 1.7a
81	c4geeA_	Alignment	not modelled	98.9	29	PDB header: isomerase/isomerase inhibitor Chain: A; PDB Molecule: dna gyrase subunit b; PDBTitle: pyrrolopyrimidine inhibitors of dna gyrase b and topoisomerase iv,2 part i: structure guided discovery and optimization of dual targeting3 agents with potent, broad-spectrum enzymatic activity.
82	c4dj2C_	Alignment	not modelled	98.9	10	PDB header: protein binding Chain: C; PDB Molecule: period circadian protein homolog 1; PDBTitle: unwinding the differences of the mammalian period clock proteins from2 crystal structure to cellular function
83	d1b63a2	Alignment	not modelled	98.9	17	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: DNA gyrase/MutL, N-terminal domain
84	c6i20A_	Alignment	not modelled	98.9	16	PDB header: transcription Chain: A; PDB Molecule: saurochrome1-like protein; PDBTitle: flavin analogue sheds light on light-oxygen-voltage domain mechanism
85	c3mfxA_	Alignment	not modelled	98.9	8	PDB header: transcription Chain: A; PDB Molecule: sensory box/ggdef family protein; PDBTitle: crystal structure of the sensory box domain of the sensory-box/ggdef2 protein so_1695 from shewanella oneidensis, northeast structural3 genomics consortium target sor288b
86	c3luqC_	Alignment	not modelled	98.9	13	PDB header: transferase Chain: C; PDB Molecule: sensor protein; PDBTitle: the crystal structure of a pas domain from a sensory box histidine2 kinase regulator from geobacter sulfurreducens to 2.5a
87	c3lyxA_	Alignment	not modelled	98.8	15	PDB header: transcription Chain: A; PDB Molecule: sensory box/ggdef domain protein; PDBTitle: crystal structure of the pas domain of the protein cps_12912 from colwellia psychrerythraea. northeast structural3 genomics consortium target id csr222b
88	c2v1bA_	Alignment	not modelled	98.8	17	PDB header: transferase Chain: A; PDB Molecule: nph1-1; PDBTitle: n- and c-terminal helices of oat lov2 (404-546) are2 involved in light-induced signal transduction (room3 temperature (293k) light structure of lov2 (404-546))
89	c5sy5B_	Alignment	not modelled	98.8	9	PDB header: transcription Chain: B; PDB Molecule: neuronal pas domain-containing protein 1; PDBTitle: crystal structure of the heterodimeric npas1-arnt complex
90	c2r78D_	Alignment	not modelled	98.8	18	PDB header: transferase Chain: D; PDB Molecule: sensor protein; PDBTitle: crystal structure of a domain of the sensory box sensor2 histidine kinase/response regulator from geobacter3 sulfurreducens
91	c2mwgB_	Alignment	not modelled	98.8	12	PDB header: protein binding Chain: B; PDB Molecule: blue-light photoreceptor; PDBTitle: full-length solution structure of ytvA, a lov-photoreceptor protein2 and regulator of bacterial stress response
92	c2qkpD_	Alignment	not modelled	98.8	15	PDB header: structural genomics, unknown function Chain: D; PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of c-terminal domain of smu_1151c from streptococcus2 mutans
93	c3b33A_	Alignment	not modelled	98.8	13	PDB header: transferase Chain: A; PDB Molecule: sensor protein; PDBTitle: crystal structure of the pas domain of nitrogen regulation protein2 nr(ii) from vibrio parahaemolyticus
94	c5xgdA_	Alignment	not modelled	98.7	17	PDB header: transcription Chain: A; PDB Molecule: uncharacterized protein pa0861; PDBTitle: crystal structure of the pas-ggdef-eal domain of pa0861 from2 pseudomonas aeruginosa in complex with gtp
95	c5iu1A_	Alignment	not modelled	98.7	14	PDB header: plant protein Chain: A; PDB Molecule: ctr1-like protein; PDBTitle: n-terminal pas domain homodimer of ppanr map3k from physcomitrella2 patens.
96	d1v9ya_	Alignment	not modelled	98.7	12	Fold: Profilin-like Superfamily: PYP-like sensor domain (PAS domain) Family: Heme-binding PAS domain
97	c1v9yA_	Alignment	not modelled	98.7	12	PDB header: signaling protein Chain: A; PDB Molecule: heme pas sensor protein; PDBTitle: crystal structure of the heme pas sensor domain of ec dos (ferric2 form)
98	c3volA_	Alignment	not modelled	98.7	18	PDB header: signaling protein Chain: A; PDB Molecule: aerotaxis transducer aer2; PDBTitle: x-ray crystal structure of pas-hamp aer2 in the cn-bound form
99	c3ke6A_	Alignment	not modelled	98.7	30	PDB header: unknown function Chain: A; PDB Molecule: protein rv1364c/mt1410; PDBTitle: the crystal structure of the rsbu and rsbw domains of rv1364c from2 mycobacterium tuberculosis
100	c3oloB_	Alignment	not modelled	98.7	12	PDB header: transferase Chain: B; PDB Molecule: two-component sensor histidine kinase; PDBTitle: crystal structure of a pas domain from two-component

					sensor histidine2 kinase
101	c5svuD_	Alignment	not modelled	98.7	15 PDB header: circadian clock protein Chain: D: PDB Molecule: adagio protein 1; PDBTitle: structure and kinetics of the lov domain of zeitlupe determine its2 circadian function in arabidopsis
102	c3sw1B_	Alignment	not modelled	98.7	10 PDB header: signaling protein Chain: B: PDB Molecule: sensory box protein; PDBTitle: structure of a full-length bacterial lov protein
103	c2wkqA_	Alignment	not modelled	98.7	16 PDB header: transferase, cell adhesion Chain: A: PDB Molecule: nph1-1, ras-related c3 botulinum toxin substrate 1; PDBTitle: structure of a photoactivatable rac1 containing the lov2 c450a mutant
104	c3k3dA_	Alignment	not modelled	98.7	10 PDB header: signaling protein Chain: A: PDB Molecule: protein rv1364c/mt1410; PDBTitle: the n-terminal pas domain crystal structure of rv1364c from2 mycobacterium tuberculosis at 2.3 angstrom
105	c3ue6C_	Alignment	not modelled	98.6	15 PDB header: signaling protein Chain: C: PDB Molecule: aureochrome1; PDBTitle: the dark structure of the blue-light photoreceptor aureochrome1 lov
106	c3h4lB_	Alignment	not modelled	98.6	21 PDB header: dna binding protein, protein binding Chain: B: PDB Molecule: dna mismatch repair protein pms1; PDBTitle: crystal structure of n terminal domain of a dna repair protein
107	c4b6cB_	Alignment	not modelled	98.6	28 PDB header: isomerase Chain: B: PDB Molecule: dna gyrase subunit b,dna gyrase subunit b,dna gyrase PDBTitle: structure of the m. smegmatis gyrb atpase domain in complex with an2 aminopyrazinamide
108	c5sy7B_	Alignment	not modelled	98.6	10 PDB header: transcription/dna Chain: B: PDB Molecule: neuronal pas domain-containing protein 3; PDBTitle: crystal structure of the heterodimeric npas3-arnt complex with hre dna
109	c2l4rA_	Alignment	not modelled	98.6	13 PDB header: transport protein Chain: A: PDB Molecule: potassium voltage-gated channel subfamily h member 2; PDBTitle: nmr solution structure of the n-terminal pas domain of herg
110	c3mjqB_	Alignment	not modelled	98.6	10 PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of the pas domain of q24qt8_deshy protein from2 desulfitobacterium hafniense. northeast structural genomics3 consortium target dhr85c.
111	c2pr6A_	Alignment	not modelled	98.6	14 PDB header: flavoprotein, signaling protein Chain: A: PDB Molecule: blue-light photoreceptor; PDBTitle: structural basis for light-dependent signaling in the dimeric lov2 photosensor ytva (light structure)
112	d1bywa_	Alignment	not modelled	98.6	12 Fold: Profilin-like Superfamily: PYP-like sensor domain (PAS domain) Family: Flavin-binding PAS domain
113	c3icyB_	Alignment	not modelled	98.5	8 PDB header: structural genomics, unknown function Chain: B: PDB Molecule: sensor protein; PDBTitle: the crystal structure of sensory box histidine kinase/response2 regulator domain from chlorobium tepidum t1s
114	c3eehA_	Alignment	not modelled	98.5	15 PDB header: transferase Chain: A: PDB Molecule: putative light and redox sensing histidine kinase; PDBTitle: the crystal structure of the domain of the putative light and redox2 sensing histidine kinase from haloarcula marismortui
115	c3f1oB_	Alignment	not modelled	98.5	7 PDB header: transcription Chain: B: PDB Molecule: aryl hydrocarbon receptor nuclear translocator; PDBTitle: crystal structure of the high affinity heterodimer of hif2 alpha and2 arnt c-terminal pas domains, with an internally-bound artificial3 ligand
116	c3mr0B_	Alignment	not modelled	98.5	17 PDB header: transcription regulator Chain: B: PDB Molecule: sensory box histidine kinase/response regulator; PDBTitle: crystal structure of sensory box histidine kinase/response regulator2 from burkholderia thailandensis e264
117	c1ea6A_	Alignment	not modelled	98.5	20 PDB header: dna repair Chain: A: PDB Molecule: pms1 protein homolog 2; PDBTitle: n-terminal 40kda fragment of nhpms2 complexed with adp
118	c3kx0X_	Alignment	not modelled	98.5	11 PDB header: signaling protein Chain: X: PDB Molecule: uncharacterized protein rv1364c/mt1410; PDBTitle: crystal structure of the pas domain of rv1364c
119	d1nwza_	Alignment	not modelled	98.5	13 Fold: Profilin-like Superfamily: PYP-like sensor domain (PAS domain) Family: PYP-like
120	c2vlgD_	Alignment	not modelled	98.5	19 PDB header: transferase Chain: D: PDB Molecule: sporulation kinase a; PDBTitle: kina pas-a domain, homodimer