



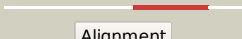

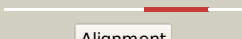

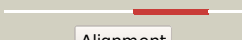

















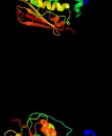



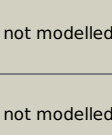


Phyre2

Email mdejesus@rockefeller.edu
 Description RVBD3132c_(devS)_3497526_3499262
 Date Thu Aug 8 16:20:31 BST 2019
 Unique Job ID 092d7acf775d4e00

Detailed template information

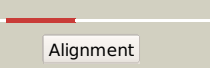
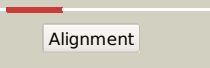
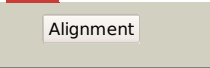
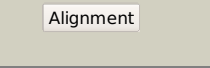
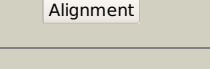
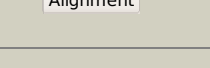
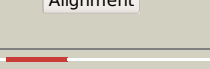
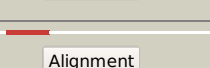
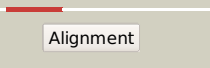
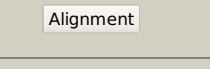
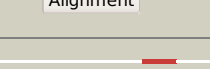

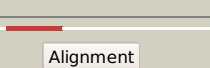
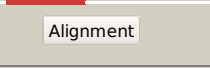
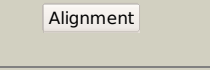
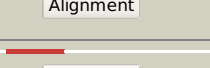
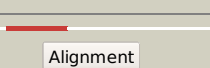
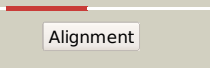
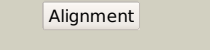



#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4ew8A_	 Alignment		100.0	17	PDB header: transferase Chain: A: PDB Molecule: sensor protein divl; PDBTitle: crystal structure of a c-terminal part of tyrosine kinase (divl) from2 caulobacter crescentus cb15 at 2.50 a resolution (psi community3 target, shapiro l.)
2	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
3	c2c2aA_	 Alignment		100.0	18	PDB header: transferase Chain: A: PDB Molecule: sensor histidine kinase; PDBTitle: structure of the entire cytoplasmic portion of a sensor2 histidine kinase protein
4	c4i5sA_	 Alignment		100.0	16	PDB header: transferase Chain: A: PDB Molecule: putative histidine kinase covs; vick-like protein; PDBTitle: structure and function of sensor histidine kinase
5	c3d2rB_	 Alignment		100.0	19	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
6	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.
7	c5idjA_	 Alignment		100.0	22	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+
8	c6dk8B_	 Alignment		100.0	17	PDB header: signaling protein Chain: B: PDB Molecule: rets (regulator of exopolysaccharide and type iii PDBTitle: rets kinase region without cobalt
9	c2q8fA_	 Alignment		100.0	16	PDB header: transferase Chain: A: PDB Molecule: [pyruvate dehydrogenase [lipoamide]] kinase isozyme 1; PDBTitle: structure of pyruvate dehydrogenase kinase isoform 1
10	c4u7nA_	 Alignment		100.0	15	PDB header: transferase Chain: A: PDB Molecule: histidine protein kinase sensor protein; PDBTitle: inactive structure of histidine kinase
11	c2bu8A_	 Alignment		100.0	18	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

12	c3cr1B_	Alignment		100.0	18	PDB header: transferase Chain: B: PDB Molecule: pyruvate dehydrogenase [lipoamide] kinase isozyme 2, PDBTitle: crystal structure of the pdhk2-l2 complex.
13	c1qjvA_	Alignment		100.0	18	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
14	c3tz5A_	Alignment		100.0	18	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
15	c1y8oA_	Alignment		100.0	17	PDB header: transferase Chain: A: PDB Molecule: [pyruvate dehydrogenase [lipoamide]] kinase isozyme 3; PDBTitle: crystal structure of the pdk3-l2 complex
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	c4gczB_	Alignment		100.0	24	PDB header: signaling protein, de novo protein Chain: B: PDB Molecule: blue-light photoreceptor, sensor protein fixl; PDBTitle: structure of a blue-light photoreceptor
18	c1b3qA_	Alignment		100.0	20	PDB header: transferase Chain: A: PDB Molecule: protein (chemotaxis protein chea); PDBTitle: crystal structure of chea-289, a signal transducing histidine kinase
19	c4biuB_	Alignment		100.0	20	PDB header: transferase Chain: B: PDB Molecule: sensor protein cpxa; PDBTitle: crystal structure of cpxahdc (orthorhombic form 1)
20	c3a0rA_	Alignment		100.0	13	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)
21	c5idmA_	Alignment	not modelled	100.0	26	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+
22	c4r39A_	Alignment	not modelled	99.9	21	PDB header: transferase Chain: A: PDB Molecule: blue-light-activated histidine kinase 2; PDBTitle: histidine kinase domain from erythrobacter litoralis e1346 blue-light2 activated histidine kinase
23	d2c2aa2	Alignment	not modelled	99.9	24	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
24	d1bxda_	Alignment	not modelled	99.9	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
25	d1ysra1	Alignment	not modelled	99.9	26	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
26	c6blkB_	Alignment	not modelled	99.9	20	PDB header: transferase Chain: B: PDB Molecule: signal transduction histidine-protein kinase/phosphatase PDBTitle: mycobacterial sensor histidine kinase mprb
27	c3sl2A_	Alignment	not modelled	99.9	22	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
						PDB header: transferase/chemotaxis

28	c2ch4A_	Alignment	not modelled	99.9	25	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	c4pl9A_	Alignment	not modelled	99.9	19	PDB header: transferase Chain: A: PDB Molecule: ethylene receptor 1; PDBTitle: structure of the catalytic domain of etr1 from arabidopsis thaliana
30	d1gkza2	Alignment	not modelled	99.9	25	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	c4gt8A_	Alignment	not modelled	99.9	30	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
32	c3zxaA_	Alignment	not modelled	99.9	59	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
33	d1i58a_	Alignment	not modelled	99.9	21	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	c4r3aA_	Alignment	not modelled	99.9	22	PDB header: signaling protein Chain: A: PDB Molecule: blue-light-activated histidine kinase 2; PDBTitle: erythrobacter litoralis e1346 blue-light activated histidine kinase
35	d1jm6a2	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
36	c3a0tA_	Alignment	not modelled	99.9	19	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)
37	d1id0a_	Alignment	not modelled	99.9	17	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Family: Histidine kinase
38	c3zxoB_	Alignment	not modelled	99.9	97	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
39	c3jz3B_	Alignment	not modelled	99.9	17	PDB header: transferase Chain: B: PDB Molecule: sensor protein qsec; PDBTitle: structure of the cytoplasmic segment of histidine kinase qsec
40	c3gieA_	Alignment	not modelled	99.9	27	PDB header: transferase Chain: A: PDB Molecule: sensor histidine kinase desk; PDBTitle: crystal structure of deskc_h188e in complex with amp-ppp
41	c3ehgA_	Alignment	not modelled	99.9	24	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
42	c5epvB_	Alignment	not modelled	99.9	12	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
43	c4fmtB_	Alignment	not modelled	99.9	16	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
44	c6nb0A_	Alignment	not modelled	99.9	17	PDB header: transferase Chain: A: PDB Molecule: histidine kinase; PDBTitle: crystal structure of histidine kinase from burkholderia phymatum2 stm815
45	c6e95A_	Alignment	not modelled	99.9	12	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)
46	c4qpkA_	Alignment	not modelled	99.9	17	PDB header: signaling protein Chain: A: PDB Molecule: phosphotransferase; PDBTitle: 1.7 angstrom structure of a bacterial phosphotransferase
47	c4ctiA_	Alignment	not modelled	99.9	15	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
48	d1r62a_	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
49	c6mzbA_	Alignment	not modelled	99.8	10	PDB header: signaling protein Chain: A: PDB Molecule: rod cgmp-specific 3',5'-cyclic phosphodiesterase subunit PDBTitle: cryo-em structure of phosphodiesterase 6
50	c3ibjB_	Alignment	not modelled	99.8	17	PDB header: hydrolase Chain: B: PDB Molecule: cgmp-dependent 3',5'-cyclic phosphodiesterase; PDBTitle: x-ray structure of pde2a
51	d2hkja3	Alignment	not modelled	99.7	18	Fold: ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase Superfamily: ATPase domain of HSP90 chaperone/DNA

						<p>topoisomerase II/histidine kinase Family:DNA gyrase/MutL, N-terminal domain</p>
52	c4bxiA	Alignment	not modelled	99.7	13	<p>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</p>
53	c4bwiA	Alignment	not modelled	99.7	13	<p>PDB header:transferase Chain: A: PDB Molecule:phytochrome-like protein cph2; PDBTitle: structure of the phytochrome cph2 from synechocystis sp. pcc6803</p>
54	d1th8a	Alignment	not modelled	99.6	29	<p>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</p>
55	c6oeiA	Alignment	not modelled	99.6	15	<p>PDB header:structural protein Chain: A: PDB Molecule:spindle pole body component spc42,sigma-54-dependent PDBTitle: yeast spc42 n-terminal coiled-coil fused to pdb: 3k2n</p>
56	c3ci6B	Alignment	not modelled	99.6	20	<p>PDB header:transferase Chain: B: PDB Molecule:phosphoenolpyruvate-protein phosphotransferase; PDBTitle: crystal structure of the gaf domain from acinetobacter2 phosphoenolpyruvate-protein phosphotransferase</p>
57	c3mf0A	Alignment	not modelled	99.6	14	<p>PDB header:hydrolase Chain: A: PDB Molecule:cgmp-specific 3',5'-cyclic phosphodiesterase; PDBTitle: crystal structure of pde5a gaf domain (89-518)</p>
58	c2zkbB	Alignment	not modelled	99.6	21	<p>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</p>
59	c1mc0A	Alignment	not modelled	99.6	14	<p>PDB header:hydrolase Chain: A: PDB Molecule:3',5'-cyclic nucleotide phosphodiesterase 2a; PDBTitle: regulatory segment of mouse 3',5'-cyclic nucleotide phosphodiesterase2 2a, containing the gaf a and gaf b domains</p>
60	c3trcA	Alignment	not modelled	99.6	24	<p>PDB header:transferase Chain: A: PDB Molecule:phosphoenolpyruvate-protein phosphotransferase; PDBTitle: structure of the gaf domain from a phosphoenolpyruvate- protein2 phosphotransferase (ptsp) from coxiella burnetii</p>
61	c3p01C	Alignment	not modelled	99.6	16	<p>PDB header:signaling protein Chain: C: PDB Molecule:two-component response regulator; PDBTitle: crystal structure of two-component response regulator from nostoc sp.2 pcc 7120</p>
62	c3p01A	Alignment	not modelled	99.6	16	<p>PDB header:signaling protein Chain: A: PDB Molecule:two-component response regulator; PDBTitle: crystal structure of two-component response regulator from nostoc sp.2 pcc 7120</p>
63	c2w3gA	Alignment	not modelled	99.6	97	<p>PDB header:transferase Chain: A: PDB Molecule:two component sensor histidine kinase devs (gaf PDBTitle: air-oxidized structure of the first gaf domain of2 mycobacterium tuberculosis doss</p>
64	c5w10A	Alignment	not modelled	99.6	20	<p>PDB header:hydrolase Chain: A: PDB Molecule:cgmp-specific phosphodiesterase; PDBTitle: lcd1 gaf domain in complex with camp ligand</p>
65	c2qybA	Alignment	not modelled	99.5	16	<p>PDB header:membrane protein Chain: A: PDB Molecule:membrane protein, putative; PDBTitle: crystal structure of the gaf domain region of putative membrane2 protein from geobacter sulfurreducens pca</p>
66	c3eeaB	Alignment	not modelled	99.5	17	<p>PDB header:structural genomics, unknown function Chain: B: PDB Molecule:gaf domain/hd domain protein; PDBTitle: the crystal structure of the gaf domain/hd domain protein2 from geobacter sulfurreducens</p>
67	c1mx0D	Alignment	not modelled	99.5	17	<p>PDB header:isomerase Chain: D: PDB Molecule:type ii dna topoisomerase vi subunit b; PDBTitle: structure of topoisomerase subunit</p>
68	c4g3vB	Alignment	not modelled	99.5	13	<p>PDB header:transcription regulator Chain: B: PDB Molecule:transcriptional regulator nh2; PDBTitle: crystal structure of a. aeolicus nh2 gaf domain in an inactive state</p>
69	d1h7sa2	Alignment	not modelled	99.5	29	<p>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</p>
70	c2zmfA	Alignment	not modelled	99.5	21	<p>PDB header:hydrolase Chain: A: PDB Molecule:camp and camp-inhibited cgmp 3',5'-cyclic phosphodiesterase PDBTitle: crystal structure of the c-terminal gaf domain of human2 phosphodiesterase 10a</p>
71	c2q2eB	Alignment	not modelled	99.5	21	<p>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</p>
72	d2o9ca1	Alignment	not modelled	99.5	14	<p>Fold:Profilin-like Superfamily:GAF domain-like Family:GAF domain</p>
73	c3w2zA	Alignment	not modelled	99.5	10	<p>PDB header:signaling protein Chain: A: PDB Molecule:methyl-accepting chemotaxis protein; PDBTitle: crystal structure of the cyanobacterial protein</p>
74	c3dbaB	Alignment	not modelled	99.5	13	<p>PDB header:hydrolase Chain: B: PDB Molecule:cone cgmp-specific 3',5'-cyclic phosphodiesterase subunit PDBTitle: crystal structure of the cgmp-bound gaf a domain from the2 photoreceptor phosphodiesterase 6c</p>
75	c4fofA	Alignment	not modelled	99.5	12	<p>PDB header:signaling protein Chain: A: PDB Molecule:methyl-accepting chemotaxis protein;</p>

75	c4v0A_	Alignment	not modelled	99.3	12	PDBTitle: crystal structure of the blue-light absorbing form of the2 thermosynechococcus elongatus pixj gaf-domain
76	d2veaa1	Alignment	not modelled	99.5	8	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
77	c3mmhA_	Alignment	not modelled	99.5	19	PDB header: oxidoreductase Chain: A: PDB Molecule: methionine-r-sulfoxide reductase; PDBTitle: x-ray structure of free methionine-r-sulfoxide reductase from2 neisseria meningitidis in complex with its substrate
78	c3oovA_	Alignment	not modelled	99.4	18	PDB header: signaling protein Chain: A: PDB Molecule: methyl-accepting chemotaxis protein, putative; PDBTitle: crystal structure of a methyl-accepting chemotaxis protein, residues2 122 to 287
79	d2oola1	Alignment	not modelled	99.4	10	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
80	c3k2nB_	Alignment	not modelled	99.4	17	PDB header: transcription regulator Chain: B: PDB Molecule: sigma-54-dependent transcriptional regulator; PDBTitle: the crystal structure of sigma-54-dependent transcriptional regulator2 domain from chlorobium tepidum t1s
81	c2vjwA_	Alignment	not modelled	99.4	21	PDB header: hydrolase Chain: A: PDB Molecule: gaf family protein; PDBTitle: crystal structure of the second gaf domain of devs from2 mycobacterium smegmatis
82	d1mc0a1	Alignment	not modelled	99.4	17	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
83	c4mcwA_	Alignment	not modelled	99.4	20	PDB header: hydrolase Chain: A: PDB Molecule: metal dependent phosphohydrolase; PDBTitle: metallo-enzyme from p. marina
84	c3rfbB_	Alignment	not modelled	99.4	12	PDB header: oxidoreductase Chain: B: PDB Molecule: putative uncharacterized protein; PDBTitle: structure of frmrs
85	c4s21B_	Alignment	not modelled	99.3	11	PDB header: signaling protein Chain: B: PDB Molecule: bacteriophytochrome (light-regulated signal transduction PDBTitle: crystal structure of the photosensory core module of2 bacteriophytochrome rpa3015 from r. palustris
86	c1vhmB_	Alignment	not modelled	99.3	19	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: protein yebr; PDBTitle: crystal structure of an hypothetical protein
87	c4iukB_	Alignment	not modelled	99.3	17	PDB header: nitrate-binding protein Chain: B: PDB Molecule: nrea protein; PDBTitle: crystal structure of nrea of staphylococcus carnosus with bound2 nitrate
88	c4g3kB_	Alignment	not modelled	99.3	19	PDB header: transcription regulator Chain: B: PDB Molecule: transcriptional regulator nh1; PDBTitle: crystal structure of a. aeolicus nh1 gaf domain in an inactive state
89	d1vhma_	Alignment	not modelled	99.3	19	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
90	d1ixma_	Alignment	not modelled	99.3	15	Fold: Sporulation response regulatory protein Spo0B Superfamily: Sporulation response regulatory protein Spo0B Family: Sporulation response regulatory protein Spo0B
91	c4geeA_	Alignment	not modelled	99.3	25	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.
92	c3hcyB_	Alignment	not modelled	99.3	14	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: putative two-component sensor histidine kinase protein; PDBTitle: the crystal structure of the domain of putative two-component sensor2 histidine kinase protein from sinorhizobium meliloti 1021
93	c6g20A_	Alignment	not modelled	99.3	8	PDB header: fluorescent protein Chain: A: PDB Molecule: bacteriophytochrome protein; PDBTitle: crystal structure of a fluorescence optimized bathy phytochrome2 pairfp2 derived from wild-type agp2 in its functional meta-f3 intermediate state.
94	c3e0yA_	Alignment	not modelled	99.3	16	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: conserved domain protein; PDBTitle: the crystal structure of a conserved domain from a protein of2 geobacter sulfurreducens pca
95	c4wkA_	Alignment	not modelled	99.3	14	PDB header: signaling protein Chain: A: PDB Molecule: bacteriophytochrome protein; PDBTitle: the photosensory module (pas-gaf-phy) of the bacterial phytochrome2 agp1 (atbph1) in the pr form, chromophore modelled with an exocyclic3 double bond at pyrrole ring a.
96	c3ksiA_	Alignment	not modelled	99.2	16	PDB header: oxidoreductase Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: structure of frmrs of staphylococcus aureus (complex with 2-propanol)
97	c1ykdB_	Alignment	not modelled	99.2	21	PDB header: lyase Chain: B: PDB Molecule: adenylate cyclase; PDBTitle: crystal structure of the tandem gaf domains from a cyanobacterial2 adenyl cyclase: novel modes of ligand-binding and dimerization
98	c4rq9A_	Alignment	not modelled	99.2	9	PDB header: signaling protein Chain: A: PDB Molecule: photoreceptor-histidine kinase bphp; PDBTitle: crystal structure of the chromophore-binding domain of stigmatella2 aurantiaca bacteriophytochrome (thr289his mutant) in the pr state

99	c3e98B	 Alignment	not modelled	99.2	13	PDB header: unknown function Chain: B: PDB Molecule: gaf domain of unknown function; PDBTitle: crystal structure of a gaf domain containing protein that belongs to2 pfam duf484 family (pa5279) from pseudomonas aeruginosa at 2.43 a3 resolution
100	c3o5yA	 Alignment	not modelled	99.2	13	PDB header: transcription regulator Chain: A: PDB Molecule: sensor protein; PDBTitle: the crystal structure of the gaf domain of a two-component sensor2 histidine kinase from bacillus halodurans to 2.45a
101	c2k31A	 Alignment	not modelled	99.2	21	PDB header: hydrolase Chain: A: PDB Molecule: phosphodiesterase 5a, cgmp-specific; PDBTitle: solution structure of cgmp-binding gaf domain of2 phosphodiesterase 5
102	d1bkna2	 Alignment	not modelled	99.2	27	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
103	c3c2wB	 Alignment	not modelled	99.2	12	PDB header: signaling protein Chain: B: PDB Molecule: bacteriophytochrome; PDBTitle: crystal structure of the photosensory core domain of p. aeruginosa2 bacteriophytochrome pabphp in the pfr state
104	d1b63a2	 Alignment	not modelled	99.2	25	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
105	c5dfxA	 Alignment	not modelled	99.2	16	PDB header: transferase Chain: A: PDB Molecule: histidine kinase; PDBTitle: structure of the parental state of gaf3 from slr1393 of synechocystis2 sp. pcc6803 (in vivo assembled protein/chromophore)
106	d3c2wa1	 Alignment	not modelled	99.2	9	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
107	c4pauA	 Alignment	not modelled	99.2	13	PDB header: unknown function Chain: A: PDB Molecule: nitrogen regulatory protein a; PDBTitle: hypothetical protein sa1058 from s. aureus.
108	c4mmnD	 Alignment	not modelled	99.2	19	PDB header: oxidoreductase Chain: D: PDB Molecule: putative uncharacterized protein ta0848; PDBTitle: structural and biochemical analysis of type ii free methionine-r-2 sulfoxide reductase from thermoplasma acidophilum
109	c6mghB	 Alignment	not modelled	99.2	12	PDB header: fluorescent protein Chain: B: PDB Molecule: mirfp670nano; PDBTitle: x-ray structure of monomeric near-infrared fluorescent protein2 mirfp670nano
110	c5hl6B	 Alignment	not modelled	99.1	19	PDB header: transferase Chain: B: PDB Molecule: putative gaf sensor protein; PDBTitle: crystal structure of a putative gaf sensor protein from burkholderia2 vietnamiensis
111	c4b6cB	 Alignment	not modelled	99.1	25	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
112	c2lb5A	 Alignment	not modelled	99.1	22	PDB header: transferase Chain: A: PDB Molecule: sensor histidine kinase; PDBTitle: refined structural basis for the photoconversion of a phytochrome to2 the activated far-red light-absorbing form
113	d2k2na1	 Alignment	not modelled	99.1	22	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
114	c4ehoD	 Alignment	not modelled	99.0	13	PDB header: signaling protein Chain: D: PDB Molecule: bacteriophytochrome, pas/pac sensor; PDBTitle: crystal structure of the bacteriophytochrome rpbphp1
115	d1y8oa2	 Alignment	not modelled	99.0	22	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
116	c4emvA	 Alignment	not modelled	99.0	23	PDB header: isomerase/isomerase inhibitor Chain: A: PDB Molecule: dna topoisomerase iv, b subunit; PDBTitle: crystal structure of a topoisomerase atp inhibitor
117	d1mc0a2	 Alignment	not modelled	99.0	26	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
118	c4qprA	 Alignment	not modelled	99.0	12	PDB header: transferase Chain: A: PDB Molecule: sensor protein kdpd; PDBTitle: crystal structure of gaf domain of potassium sensor histidine kinase2 kdpd from escherichia coli
119	c2veaA	 Alignment	not modelled	99.0	9	PDB header: transferase Chain: A: PDB Molecule: phytochrome-like protein cph1; PDBTitle: the complete sensory module of the cyanobacterial2 phytochrome cph1 in the pr-state.
120	c2oolA	 Alignment	not modelled	98.9	9	PDB header: signaling protein Chain: A: PDB Molecule: sensor protein; PDBTitle: crystal structure of the chromophore-binding domain of an unusual2 bacteriophytochrome rpbphp3 from r. palustris