







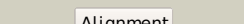

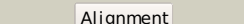
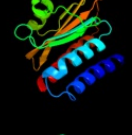
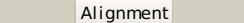

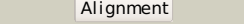

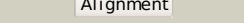

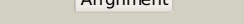

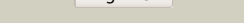













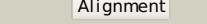

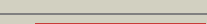

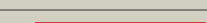
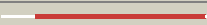




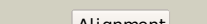




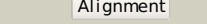
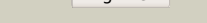
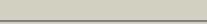

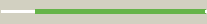


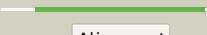
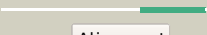
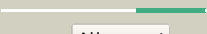
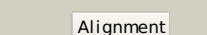
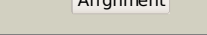
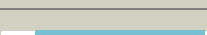


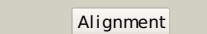
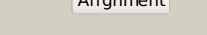


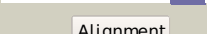
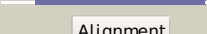

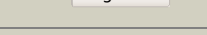
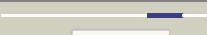
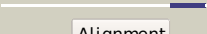
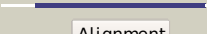
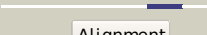
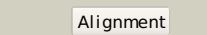



#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1vhmB_	 Alignment		100.0	100	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: protein yebv; PDBTitle: crystal structure of an hypothetical protein
2	d1vhma_	 Alignment		100.0	100	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
3	c3ksiA_	 Alignment		100.0	51	PDB header: oxidoreductase Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: structure of frmsr of staphylococcus aureus (complex with 2-propanol)
4	c3mmhA_	 Alignment		99.9	43	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
5	d1f5ma_	 Alignment		99.9	40	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
6	c3p01C_	 Alignment		99.9	16	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
7	d2o9ca1	 Alignment		99.8	12	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
8	c3p01A_	 Alignment		99.8	15	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
9	c1mc0A_	 Alignment		99.8	18	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
10	c3o5yA_	 Alignment		99.8	22	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
11	c3trcA_	 Alignment		99.8	16	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

12	d2veaa1	Alignment		99.8	8	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
13	c3ci6B_	Alignment		99.8	19	PDB header: transferase Chain: B: PDB Molecule: phosphoenolpyruvate-protein phosphotransferase; PDBTitle: crystal structure of the gaf domain from acinetobacter2 phosphoenolpyruvate-protein phosphotransferase
14	c2zmfA_	Alignment		99.8	13	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
15	c3k2nB_	Alignment		99.8	9	PDB header: transcription regulator Chain: B: PDB Molecule: sigma-54-dependent transcriptional regulator; PDBTitle: the crystal structure of sigma-54-dependent transcriptional2 regulator domain from chlorobium tepidum t1s
16	c3mf0A_	Alignment		99.8	14	PDB header: hydrolase Chain: A: PDB Molecule: cgmp-specific 3',5'-cyclic phosphodiesterase; PDBTitle: crystal structure of pde5a gaf domain (89-518)
17	c3eeaB_	Alignment		99.8	18	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
18	c3dbaB_	Alignment		99.8	14	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
19	d2oolal	Alignment		99.8	10	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
20	c3e0yA_	Alignment		99.8	18	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
21	c3ibjB_	Alignment	not modelled	99.8	13	PDB header: hydrolase Chain: B: PDB Molecule: cgmp-dependent 3',5'-cyclic phosphodiesterase; PDBTitle: x-ray structure of pde2a
22	c3oovA_	Alignment	not modelled	99.8	19	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
23	c2vjwA_	Alignment	not modelled	99.8	16	PDB header: hydrolase Chain: A: PDB Molecule: gaf family protein; PDBTitle: crystal structure of the second gaf domain of devs from2 mycobacterium smegmatis
24	c1ykdB_	Alignment	not modelled	99.8	18	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
25	c21b5A_	Alignment	not modelled	99.7	17	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
26	c3hcyB_	Alignment	not modelled	99.7	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
27	c2qybA_	Alignment	not modelled	99.7	17	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

28	c2w3gA	 Alignment	not modelled	99.7	21	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
29	c2k31A	 Alignment	not modelled	99.7	17	PDB header: hydrolase Chain: A: PDB Molecule: phosphodiesterase 5a, cgmp-specific; PDBTitle: solution structure of cgmp-binding gaf domain of2 phosphodiesterase 5
30	d2k2na1	 Alignment	not modelled	99.7	17	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
31	c2oolA	 Alignment	not modelled	99.6	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
32	d1mc0a1	 Alignment	not modelled	99.6	16	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
33	d3c2wa1	 Alignment	not modelled	99.6	11	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
34	d1mc0a2	 Alignment	not modelled	99.6	18	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
35	c3e98B	 Alignment	not modelled	99.5	17	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
36	c2o9bA	 Alignment	not modelled	99.4	10	PDB header: transferase Chain: A: PDB Molecule: bacteriophytochrome; PDBTitle: crystal structure of bacteriophytochrome chromophore binding domain
37	c3c2wB	 Alignment	not modelled	99.4	10	PDB header: signaling protein Chain: B: PDB Molecule: bacteriophytochrome; PDBTitle: crystal structure of the photosensory core domain of p.2 aeruginosa bacteriophytochrome pabphp in the pfr state
38	c2xssB	 Alignment	not modelled	99.3	17	PDB header: hydrolase Chain: B: PDB Molecule: cgmp-specific 3', 5'-cyclic phosphodiesterase; PDBTitle: crystal structure of gafb from the human phosphodiesterase 5
39	c2veaA	 Alignment	not modelled	99.3	10	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.
40	c2w1rA	 Alignment	not modelled	98.7	15	PDB header: transcription Chain: A: PDB Molecule: stage v sporulation protein t; PDBTitle: crystal structure of the c-terminal domain of b. subtilis2 spovt
41	c2w1tB	 Alignment	not modelled	98.3	14	PDB header: transcription Chain: B: PDB Molecule: stage v sporulation protein t; PDBTitle: crystal structure of b. subtilis spovt
42	c2gx5B	 Alignment	not modelled	96.7	11	PDB header: transcription Chain: B: PDB Molecule: gtp-sensing transcriptional pleiotropic repressor cody; PDBTitle: n-terminal gaf domain of transcriptional pleiotropic repressor cody
43	c3qp1A	 Alignment	not modelled	93.1	10	PDB header: transcription Chain: A: PDB Molecule: cvir transcriptional regulator; PDBTitle: crystal structure of cvir ligand-binding domain bound to the native2 ligand c6-hsl
44	d1l3la2	 Alignment	not modelled	92.2	10	Fold: Profilin-like Superfamily: Pheromone-binding domain of LuxR-like quorum-sensing transcription factors Family: Pheromone-binding domain of LuxR-like quorum-sensing transcription factors
45	c2avxA	 Alignment	not modelled	78.8	10	PDB header: transcription Chain: A: PDB Molecule: regulatory protein sdia; PDBTitle: solution structure of e coli sdia1-171
46	c3qp5C	 Alignment	not modelled	77.7	11	PDB header: transcription Chain: C: PDB Molecule: cvir transcriptional regulator; PDBTitle: crystal structure of cvir bound to antagonist chlorolactone (cl)
47	c3citB	 Alignment	not modelled	75.4	22	PDB header: transferase Chain: B: PDB Molecule: sensor histidine kinase; PDBTitle: crystal structure of the gaf domain of a putative sensor histidine2 kinase from pseudomonas syringae pv. tomato
48	d1tf1a	 Alignment	not modelled	75.3	15	Fold: Profilin-like Superfamily: GAF domain-like Family: IcIR ligand-binding domain-like
49	c1yspA	 Alignment	not modelled	70.1	13	PDB header: transcription Chain: A: PDB Molecule: transcriptional regulator kdgr; PDBTitle: crystal structure of the c-terminal domain of e. coli transcriptional2 regulator kdgr.
50	c2o0yB	 Alignment	not modelled	64.1	16	PDB header: transcription Chain: B: PDB Molecule: transcriptional regulator; PDBTitle: crystal structure of putative transcriptional regulator rha1 ro069532 (iclr-family) from rhodococcus sp.
51	c1ysqA	 Alignment	not modelled	59.8	15	PDB header: gene regulation Chain: A: PDB Molecule: hth-type transcriptional regulator yiaj; PDBTitle: the crystal structure of transcriptional regulator yaij
52	c2g7uB	 Alignment	not modelled	58.7	15	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: transcriptional regulator; PDBTitle: 2.3 a structure of putative catechol degradative operon regulator from2 rhodococcus sp. rha1

53	c3mq0A_	 Alignment	not modelled	58.3	11	PDB header: transcription repressor Chain: A: PDB Molecule: transcriptional repressor of the blcabc operon; PDBTitle: crystal structure of agobacterium tumefaciens repressor blcr
54	c1stzB_	 Alignment	not modelled	47.5	10	PDB header: transcription Chain: B: PDB Molecule: heat-inducible transcription repressor hrca homolog; PDBTitle: crystal structure of a hypothetical protein at 2.2 a resolution
55	c3d3oA_	 Alignment	not modelled	47.5	10	PDB header: transcription regulator Chain: A: PDB Molecule: putative transcriptional regulator, iclr family; PDBTitle: crystal structure of the effector domain of the putative2 transcriptional regulator iclr from acinetobacter sp. adp1
56	c3fpvC_	 Alignment	not modelled	45.8	12	PDB header: heme binding protein Chain: C: PDB Molecule: extracellular haem-binding protein; PDBTitle: crystal structure of hbps
57	d1stza2	 Alignment	not modelled	41.0	10	Fold: Profilin-like Superfamily: GAF domain-like Family: HrcA C-terminal domain-like
58	d2a2la1	 Alignment	not modelled	34.8	17	Fold: Profilin-like Superfamily: GlcG-like Family: GlcG-like
59	c3bjnA_	 Alignment	not modelled	30.9	10	PDB header: transcription regulator Chain: A: PDB Molecule: transcriptional regulator, putative; PDBTitle: crystal structure of c-terminal domain of putative transcriptional2 regulator from vibrio cholerae, targeted domain 79-240
60	c3obfA_	 Alignment	not modelled	29.2	13	PDB header: transcription regulator Chain: A: PDB Molecule: putative transcriptional regulator, iclr family; PDBTitle: crystal structure of putative transcriptional regulator, iclr family;2 targeted domain 129...302
61	d2o9aa1	 Alignment	not modelled	25.4	15	Fold: Profilin-like Superfamily: GAF domain-like Family: IcLR ligand-binding domain-like
62	c1mkmA_	 Alignment	not modelled	24.9	11	PDB header: transcription Chain: A: PDB Molecule: iclr transcriptional regulator; PDBTitle: crystal structure of the thermotoga maritima iclr
63	c3e4pB_	 Alignment	not modelled	24.6	10	PDB header: transferase Chain: B: PDB Molecule: c4-dicarboxylate transport sensor protein dctb; PDBTitle: crystal structure of malonate occupied dctb
64	c2uv0G_	 Alignment	not modelled	23.0	16	PDB header: transcription Chain: G: PDB Molecule: transcriptional activator protein lasr; PDBTitle: structure of the p. aeruginosa lasr ligand-binding domain2 bound to its autoinducer
65	c2ia2D_	 Alignment	not modelled	21.3	14	PDB header: transcription Chain: D: PDB Molecule: putative transcriptional regulator; PDBTitle: the crystal structure of a putative transcriptional regulator rha061952 from rhodococcus sp. rha1
66	c1h0mD_	 Alignment	not modelled	18.7	13	PDB header: transcription/dna Chain: D: PDB Molecule: transcriptional activator protein trar; PDBTitle: three-dimensional structure of the quorum sensing protein2 trar bound to its autoinducer and to its target dna
67	c3hlyA_	 Alignment	not modelled	15.4	22	PDB header: flavoprotein Chain: A: PDB Molecule: flavodoxin-like domain; PDBTitle: crystal structure of the flavodoxin-like domain from2 synechococcus sp q5mzp6_syp6 protein. northeast structural3 genomics consortium target snr135d.
68	c3r4kD_	 Alignment	not modelled	13.6	13	PDB header: dna binding protein Chain: D: PDB Molecule: transcriptional regulator, iclr family; PDBTitle: crystal structure of a putative iclr transcriptional regulator2 (tm1040_3717) from silicibacter sp. tm1040 at 2.46 a resolution
69	d1p0za_	 Alignment	not modelled	13.5	8	Fold: Profilin-like Superfamily: Sensory domain-like Family: Sensory domain of two-component sensor kinase
70	d1mkma2	 Alignment	not modelled	13.0	13	Fold: Profilin-like Superfamily: GAF domain-like Family: IcLR ligand-binding domain-like
71	d3by8a1	 Alignment	not modelled	12.0	11	Fold: Profilin-like Superfamily: Sensory domain-like Family: Sensory domain of two-component sensor kinase
72	c2pfiA_	 Alignment	not modelled	9.9	13	PDB header: transport protein Chain: A: PDB Molecule: chloride channel protein clc-ka; PDBTitle: crystal structure of the cytoplasmic domain of the human2 chloride channel clc-ka
73	c3btpB_	 Alignment	not modelled	9.5	19	PDB header: dna binding protein, chaperone Chain: B: PDB Molecule: protein vire1; PDBTitle: crystal structure of agrobacterium tumefaciens vire2 in complex with2 its chaperone vire1: a novel fold and implications for dna binding
74	c2q0oA_	 Alignment	not modelled	8.3	5	PDB header: transcription Chain: A: PDB Molecule: probable transcriptional activator protein trar; PDBTitle: crystal structure of an anti-activation complex in bacterial quorum2 sensing
75	c3fioB_	Alignment	not modelled	8.0	20	PDB header: nucleotide binding protein, metal bindin Chain: B: PDB Molecule: a cystathionine beta-synthase domain protein PDBTitle: crystal structure of a fragment of a cystathionine beta-2 synthase domain protein fused to a zn-ribbon-like domain
76	d2o16a3	Alignment	not modelled	7.9	33	Fold: CBS-domain pair Superfamily: CBS-domain pair Family: CBS-domain pair

77	c3fosA_	Alignment	not modelled	7.4	11	PDB header: transferase Chain: A: PDB Molecule: sensor protein; PDBTitle: crystal structure of two-component sensor histidine kinase domain from2 bacillus subtilis subsp. subtilis str. 168
78	c2ev2B_	Alignment	not modelled	7.3	12	PDB header: lyase Chain: B: PDB Molecule: hypothetical protein rv1264/mt1302; PDBTitle: structure of rv1264n, the regulatory domain of the mycobacterial2 adenyl cyclase rv1264, at ph 8.5
79	d1y5ha3	Alignment	not modelled	7.0	13	Fold: CBS-domain pair Superfamily: CBS-domain pair Family: CBS-domain pair
80	c2wukD_	Alignment	not modelled	7.0	16	PDB header: cell cycle Chain: D: PDB Molecule: septum site-determining protein diviva; PDBTitle: diviva n-terminal domain, f17a mutant
81	c3cagF_	Alignment	not modelled	7.0	14	PDB header: dna binding protein Chain: F: PDB Molecule: arginine repressor; PDBTitle: crystal structure of the oligomerization domain hexamer of the2 arginine repressor protein from mycobacterium tuberculosis in complex3 with 9 arginines.
82	d2p5ma1	Alignment	not modelled	6.8	9	Fold: DcoH-like Superfamily: C-terminal domain of arginine repressor Family: C-terminal domain of arginine repressor
83	d2rc3a1	Alignment	not modelled	6.7	33	Fold: CBS-domain pair Superfamily: CBS-domain pair Family: CBS-domain pair
84	c2w0nA_	Alignment	not modelled	6.7	21	PDB header: transferase Chain: A: PDB Molecule: sensor protein dcus; PDBTitle: plasticity of pas domain and potential role for signal2 transduction in the histidine-kinase dcus
85	c3libA_	Alignment	not modelled	6.6	21	PDB header: signaling protein Chain: A: PDB Molecule: hypothetical sensory transduction histidine kinase; PDBTitle: crystal structure of the extracellular domain of the putative2 histidine kinase mmhk1s-z3
86	d1k8ib2	Alignment	not modelled	6.5	13	Fold: MHC antigen-recognition domain Superfamily: MHC antigen-recognition domain Family: MHC antigen-recognition domain
87	d1b4ba_	Alignment	not modelled	6.4	14	Fold: DcoH-like Superfamily: C-terminal domain of arginine repressor Family: C-terminal domain of arginine repressor
88	d2yzia1	Alignment	not modelled	6.0	13	Fold: CBS-domain pair Superfamily: CBS-domain pair Family: CBS-domain pair
89	d1pbja3	Alignment	not modelled	5.6	33	Fold: CBS-domain pair Superfamily: CBS-domain pair Family: CBS-domain pair
90	d2pyqa1	Alignment	not modelled	5.4	15	Fold: Jann4075-like Superfamily: Jann4075-like Family: Jann4075-like