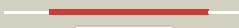
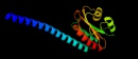
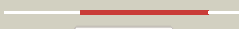
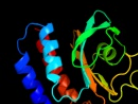
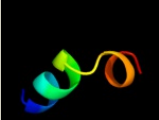


#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3e98B_	 Alignment		100.0	27	PDB header: unknown function Chain: B: PDB Molecule: gaf domain of unknown function; PDBTitle: crystal structure of a gaf domain containing protein that belongs to2 pfam duf484 family (pa5279) from pseudomonas aeruginosa at 2.43 a3 resolution
2	c3p01C_	 Alignment		99.0	13	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
3	d2veaa1	 Alignment		99.0	10	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
4	c3p01A_	 Alignment		99.0	13	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
5	c3mmhA_	 Alignment		98.9	11	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
6	c3ci6B_	 Alignment		98.9	15	PDB header: transferase Chain: B: PDB Molecule: phosphoenolpyruvate-protein phosphotransferase; PDBTitle: crystal structure of the gaf domain from acinetobacter2 phosphoenolpyruvate-protein phosphotransferase
7	c1vhmB_	 Alignment		98.9	13	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: protein yeb7; PDBTitle: crystal structure of an hypothetical protein
8	d1vhma_	 Alignment		98.9	13	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
9	d2o9ca1	 Alignment		98.9	14	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
10	c3ksiA_	 Alignment		98.8	9	PDB header: oxidoreductase Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: structure of frmrs of staphylococcus aureus (complex with 2-propanol)
11	c3trcA_	 Alignment		98.8	13	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	d2oolA1	Alignment		98.8	15	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
13	c3k2nB_	Alignment		98.7	12	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
14	c3o5yA_	Alignment		98.6	14	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
15	c3hcyB_	Alignment		98.6	10	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
16	c1mc0A_	Alignment		98.5	9	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
17	c3oovA_	Alignment		98.4	12	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
18	c3e0yA_	Alignment		98.4	10	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
19	c1ykdB_	Alignment		98.3	13	PDB header: lyase Chain: B: PDB Molecule: adenylate cyclase; PDBTitle: crystal structure of the tandem gaf domains from a cyanobacterial2 adenylate cyclase: novel modes of ligand-binding and dimerization
20	c2oolA_	Alignment		98.3	11	PDB header: signaling protein Chain: A: PDB Molecule: sensor protein; PDBTitle: crystal structure of the chromophore-binding domain of an unusual2 bacteriophytochrome rpbph3 from r. palustris
21	d2k2na1	Alignment	not modelled	98.3	18	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
22	d1f5ma_	Alignment	not modelled	98.3	11	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
23	d3c2wa1	Alignment	not modelled	98.3	11	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
24	c3eeaB_	Alignment	not modelled	98.2	12	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
25	c3mf0A_	Alignment	not modelled	98.2	9	PDB header: hydrolase Chain: A: PDB Molecule: cgmp-specific 3',5'-cyclic phosphodiesterase; PDBTitle: crystal structure of pde5a gaf domain (89-518)
26	c2lb5A_	Alignment	not modelled	98.1	14	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
27	c2zmfA_	Alignment	not modelled	98.1	12	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
28	c2o9bA_	Alignment	not modelled	98.1	11	PDB header: transferase Chain: A: PDB Molecule: bacteriophytochrome; PDBTitle: crystal structure of bacteriophytochrome chromophore binding domain

29	c2qybA	Alignment	not modelled	98.1	14	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
30	c2vjwA	Alignment	not modelled	98.0	12	PDB header: hydrolase Chain: A: PDB Molecule: gaf family protein; PDBTitle: crystal structure of the second gaf domain of devs from2 mycobacterium smegmatis
31	c3ibjB	Alignment	not modelled	97.9	9	PDB header: hydrolase Chain: B: PDB Molecule: cgmp-dependent 3',5'-cyclic phosphodiesterase; PDBTitle: x-ray structure of pde2a
32	c3dbaB	Alignment	not modelled	97.9	8	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
33	c2w3gA	Alignment	not modelled	97.8	7	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
34	d1mc0a1	Alignment	not modelled	97.8	8	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
35	c3c2wB	Alignment	not modelled	97.7	8	PDB header: signaling protein Chain: B: PDB Molecule: bacteriophytochrome; PDBTitle: crystal structure of the photosensory core domain of p.2 aeruginosa bacteriophytochrome pabph in the pfr state
36	c2veaA	Alignment	not modelled	97.3	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.
37	d1mc0a2	Alignment	not modelled	97.2	8	Fold: Profilin-like Superfamily: GAF domain-like Family: GAF domain
38	c2k31A	Alignment	not modelled	96.9	7	PDB header: hydrolase Chain: A: PDB Molecule: phosphodiesterase 5a, cgmp-specific; PDBTitle: solution structure of cgmp-binding gaf domain of2 phosphodiesterase 5
39	c2xssB	Alignment	not modelled	95.9	7	PDB header: hydrolase Chain: B: PDB Molecule: cgmp-specific 3', 5'-cyclic phosphodiesterase; PDBTitle: crystal structure of gafb from the human phosphodiesterase 5
40	c2w1tB	Alignment	not modelled	81.4	13	PDB header: transcription Chain: B: PDB Molecule: stage v sporulation protein t; PDBTitle: crystal structure of b. subtilis spovt
41	c2w1rA	Alignment	not modelled	80.1	16	PDB header: transcription Chain: A: PDB Molecule: stage v sporulation protein t; PDBTitle: crystal structure of the c-terminal domain of b. subtilis2 spovt
42	c2gx5B	Alignment	not modelled	65.7	14	PDB header: transcription Chain: B: PDB Molecule: gtp-sensing transcriptional pleiotropic repressor cody; PDBTitle: n-terminal gaf domain of transcriptional pleiotropic repressor cody
43	d1ubea2	Alignment		55.0	13	Fold: Anti-LPS factor/recA domain Superfamily: RecA protein, C-terminal domain Family: RecA protein, C-terminal domain
44	d1mo6a2	Alignment		54.2	13	Fold: Anti-LPS factor/recA domain Superfamily: RecA protein, C-terminal domain Family: RecA protein, C-terminal domain
45	d1u94a2	Alignment		52.1	25	Fold: Anti-LPS factor/recA domain Superfamily: RecA protein, C-terminal domain Family: RecA protein, C-terminal domain
46	d2v0ea1	Alignment		50.1	17	Fold: GYF/BRK domain-like Superfamily: BRK domain-like Family: BRK domain-like
47	d1xp8a2	Alignment	not modelled	49.8	19	Fold: Anti-LPS factor/recA domain Superfamily: RecA protein, C-terminal domain Family: RecA protein, C-terminal domain
48	c2ckaA	Alignment	not modelled	48.3	31	PDB header: hydrolase Chain: A: PDB Molecule: chromodomain-helicase-dna-binding protein 8; PDBTitle: solution structures of the brk domains of the human chromo2 helicase domain 7 and 8, reveals structural similarity3 with gyf domain suggesting a role in protein interaction
49	d2ckaa1	Alignment	not modelled	48.3	31	Fold: GYF/BRK domain-like Superfamily: BRK domain-like

						Family: BRK domain-like
50	d2pnwa1	Alignment	not modelled	47.2	11	Fold: Double psi beta-barrel Superfamily: Barwin-like endoglucanases Family: MLTA-like
51	c1pk1B_	Alignment	not modelled	46.4	9	PDB header: transcription repression Chain: B: PDB Molecule: sex comb on midleg cg9495-pa; PDBTitle: hetero sam domain structure of ph and scm.
52	c2avxA_	Alignment	not modelled	45.9	14	PDB header: transcription Chain: A: PDB Molecule: regulatory protein sdia; PDBTitle: solution structure of e coli sdia1-171
53	d1l3la2	Alignment	not modelled	45.5	12	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
54	c2ckcA_	Alignment	not modelled	45.0	17	PDB header: hydrolase Chain: A: PDB Molecule: chromodomain-helicase-dna-binding protein 7; PDBTitle: solution structures of the brk domains of the human chromo2 helicase domain 7 and 8, reveals structural similarity3 with gyf domain suggesting a role in protein interaction
55	d2ckca1	Alignment	not modelled	45.0	17	Fold: GYF/BRK domain-like Superfamily: BRK domain-like Family: BRK domain-like
56	d1pk3a1	Alignment	not modelled	42.4	12	Fold: SAM domain-like Superfamily: SAM/Pointed domain Family: SAM (sterile alpha motif) domain
57	d2g5da1	Alignment	not modelled	42.1	21	Fold: Double psi beta-barrel Superfamily: Barwin-like endoglucanases Family: MLTA-like
58	dli27a_	Alignment	not modelled	40.9	36	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: C-terminal domain of the rap74 subunit of TFIIIF
59	d2dl6a1	Alignment	not modelled	37.8	31	Fold: GYF/BRK domain-like Superfamily: BRK domain-like Family: BRK domain-like
60	c2j5uB_	Alignment	not modelled	36.6	13	PDB header: cell shape regulation Chain: B: PDB Molecule: mrec protein; PDBTitle: mrec lysteria monocytogenes
61	c2wpyA_	Alignment	not modelled	35.3	27	PDB header: transcription Chain: A: PDB Molecule: general control protein gcn4; PDBTitle: gcn4 leucine zipper mutant with one vxxnxxx motif2 coordinating chloride
62	c3c0rC_	Alignment	not modelled	35.2	19	PDB header: cell cycle, hydrolase Chain: C: PDB Molecule: ubiquitin thioesterase otu1; PDBTitle: structure of ovarian tumor (otu) domain in complex with ubiquitin
63	c1dipA_	Alignment	not modelled	34.3	22	PDB header: acetylation Chain: A: PDB Molecule: delta-sleep-inducing peptide immunoreactive PDBTitle: the solution structure of porcine delta-sleep-inducing2 peptide immunoreactive peptide, nmr, 10 structures
64	d2ia7a1	Alignment	not modelled	33.1	22	Fold: gpW/gp25-like Superfamily: gpW/gp25-like Family: gpW/gp25-like
65	c3hefB_	Alignment	not modelled	32.8	31	PDB header: viral protein Chain: B: PDB Molecule: gene 1 protein; PDBTitle: crystal structure of the bacteriophage sf6 terminase small2 subunit
66	c3pfyA_	Alignment	not modelled	32.8	35	PDB header: hydrolase Chain: A: PDB Molecule: otu domain-containing protein 5; PDBTitle: the catalytic domain of human otud5
67	c2k7rA_	Alignment	not modelled	32.6	33	PDB header: replication Chain: A: PDB Molecule: primosomal protein dnaI; PDBTitle: n-terminal domain of the bacillus subtilis helicase-loading2 protein dnaI
68	c3fkhB_	Alignment	not modelled	31.9	11	PDB header: oxidoreductase Chain: B: PDB Molecule: putative pyridoxamine 5'-phosphate oxidase; PDBTitle: crystal structure of putative pyridoxamine 5'-phosphate oxidase2 (np_601736.1) from corynebacterium glutamicum atcc 13032 kitasato at3 2.51 a resolution
69	d2ff4a1	Alignment	not modelled	31.8	18	Fold: DNA/RNA-binding 3-helical bundle Superfamily: C-terminal effector domain of the bipartite response regulators Family: PhoB-like
70	d2v0fa1	Alignment	not modelled	29.9	38	Fold: GYF/BRK domain-like Superfamily: BRK domain-like Family: BRK domain-like
71	c3eoiB_	Alignment	not modelled	24.7	46	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: pilm; PDBTitle: crystal structure of putative protein pilm from escherichia coli b7a
72	c1ci6B_	Alignment	not modelled	24.0	22	PDB header: transcription Chain: B: PDB Molecule: transcription factor c/ebp beta; PDBTitle: transcription factor atf4-c/ebp beta bzip heterodimer
73	c3iwfA_	Alignment	not modelled	22.6	3	PDB header: transcription regulator Chain: A: PDB Molecule: transcription regulator rpri family; PDBTitle: the crystal structure of the n-terminal domain of a rpri2 transcriptional regulator from staphylococcus epidermidis to 1.4a
74	d1gxqa_	Alignment	not modelled	22.0	14	Fold: DNA/RNA-binding 3-helical bundle Superfamily: C-terminal effector domain of the bipartite response regulators Family: PhoB-like

75	c1swiB	Alignment	not modelled	21.9	27	PDB header: leucine zipper Chain: B: PDB Molecule: gcn4p1; PDBTitle: gcn4-leucine zipper core mutant as n16a complexed with2 benzene
76	c1rb4A	Alignment	not modelled	21.9	27	PDB header: dna binding protein Chain: A: PDB Molecule: general control protein gcn4; PDBTitle: antiparallel trimer of gcn4-leucine zipper core mutant as2 n16a tetragonal automatic solution
77	d2o3fa1	Alignment	not modelled	21.6	25	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: RpiR-like
78	c2o3fC	Alignment	not modelled	21.6	25	PDB header: transcription Chain: C: PDB Molecule: putative hth-type transcriptional regulator ybbh; PDBTitle: structural genomics, the crystal structure of the n-2 terminal domain of the putative transcriptional regulator3 ybbh from bacillus subtilis subsp. subtilis str. 168.
79	c2yxlA	Alignment	not modelled	21.0	27	PDB header: transferase Chain: A: PDB Molecule: 450aa long hypothetical fmu protein; PDBTitle: crystal structure of ph0851
80	c1rb6B	Alignment	not modelled	21.0	27	PDB header: dna binding protein Chain: B: PDB Molecule: general control protein gcn4; PDBTitle: antiparallel trimer of gcn4-leucine zipper core mutant as2 n16a tetragonal form
81	c1rb4B	Alignment	not modelled	21.0	27	PDB header: dna binding protein Chain: B: PDB Molecule: general control protein gcn4; PDBTitle: antiparallel trimer of gcn4-leucine zipper core mutant as2 n16a tetragonal automatic solution
82	c1rb5C	Alignment	not modelled	21.0	27	PDB header: dna binding protein Chain: C: PDB Molecule: general control protein gcn4; PDBTitle: antiparallel trimer of gcn4-leucine zipper core mutant as2 n16a trigonal form
83	c2eanA	Alignment	not modelled	20.7	14	PDB header: signaling protein Chain: A: PDB Molecule: connector enhancer of kinase suppressor of ras 2; PDBTitle: solution structure of the n-terminal sam-domain of human2 kiaa0902 protein (connector enhancer of kinase suppressor3 of ras 2)
84	c2uv0G	Alignment	not modelled	20.4	15	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
85	c1rb5B	Alignment	not modelled	20.0	27	PDB header: dna binding protein Chain: B: PDB Molecule: general control protein gcn4; PDBTitle: antiparallel trimer of gcn4-leucine zipper core mutant as2 n16a trigonal form
86	c1rb6A	Alignment	not modelled	20.0	27	PDB header: dna binding protein Chain: A: PDB Molecule: general control protein gcn4; PDBTitle: antiparallel trimer of gcn4-leucine zipper core mutant as2 n16a tetragonal form
87	c1rb5A	Alignment	not modelled	20.0	27	PDB header: dna binding protein Chain: A: PDB Molecule: general control protein gcn4; PDBTitle: antiparallel trimer of gcn4-leucine zipper core mutant as2 n16a trigonal form
88	c2oqqB	Alignment	not modelled	19.9	33	PDB header: transcription Chain: B: PDB Molecule: transcription factor hy5; PDBTitle: crystal structure of hy5 leucine zipper homodimer from2 arabidopsis thaliana
89	c3m6wA	Alignment	not modelled	18.9	33	PDB header: transferase Chain: A: PDB Molecule: rrna methylase; PDBTitle: multi-site-specific 16s rrna methyltransferase rsmf from thermus2 thermophilus in space group p21212 in complex with s-adenosyl-l-3 methionine
90	d2o34a1	Alignment	not modelled	18.2	14	Fold: T-fold Superfamily: ApbE-like Family: DVU1097-like
91	c2wpzA	Alignment	not modelled	18.1	23	PDB header: transcription Chain: A: PDB Molecule: general control protein gcn4; PDBTitle: gcn4 leucine zipper mutant with two vxnxnxx motifs2 coordinating chloride
92	c2nytB	Alignment	not modelled	17.9	15	PDB header: hydrolase Chain: B: PDB Molecule: probable c->u-editing enzyme apobec-2; PDBTitle: the apobec2 crystal structure and functional implications2 for aid
93	c3cp3A	Alignment	not modelled	17.6	22	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of conserved protein of unknown function dip18742 from corynebacterium diphtheriae
94	c2pywA	Alignment	not modelled	17.0	25	PDB header: transferase Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: structure of a. thaliana 5-methylthioribose kinase in complex with adp2 and mtr
95	c2wpzB	Alignment	not modelled	16.9	23	PDB header: transcription Chain: B: PDB Molecule: general control protein gcn4; PDBTitle: gcn4 leucine zipper mutant with two vxnxnxx motifs2 coordinating chloride
96	d1pvea	Alignment	not modelled	16.8	25	Fold: XPC-binding domain Superfamily: XPC-binding domain Family: XPC-binding domain
97	d2vkva2	Alignment	not modelled	16.7	9	Fold: Tetracyclin repressor-like, C-terminal domain Superfamily: Tetracyclin repressor-like, C-terminal domain Family: Tetracyclin repressor-like, C-terminal domain
98	c2xh3B	Alignment	not modelled	16.6	15	PDB header: hydrolase Chain: B: PDB Molecule: spd1 nuclease; PDBTitle: extracellular nuclease
99	c2nt8A	Alignment	not modelled	16.5	17	PDB header: transferase Chain: A: PDB Molecule: cobalamin adenosyltransferase; PDBTitle: atp bound at the active site of a pduo type atp:co(i)rrinoid2 adenosyltransferase from lactobacillus reuteri