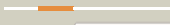
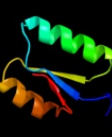
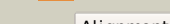
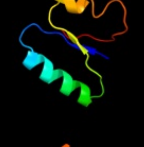
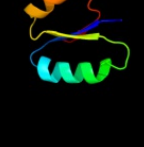
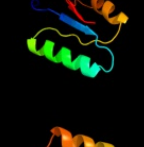
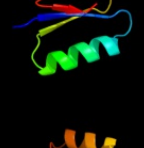
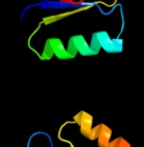
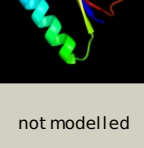


#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3cniA_	 Alignment		99.5	12	PDB header: transport protein Chain: A: PDB Molecule: putative abc type-2 transporter; PDBTitle: crystal structure of a domain of a putative abc type-2 transporter2 from thermotoga maritima msb8
2	d2p0sa1	 Alignment		95.1	16	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: PG0945 N-terminal domain-like
3	c3r0jA_	 Alignment		83.3	13	PDB header: dna binding protein Chain: A: PDB Molecule: possible two component system response transcriptional PDBTitle: structure of phop from mycobacterium tuberculosis
4	c3cg4A_	 Alignment		81.1	12	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: response regulator receiver domain protein (cheY-like); PDBTitle: crystal structure of response regulator receiver domain protein (cheY-2 like) from methanospirillum hungatei jf-1
5	c2gwrA_	 Alignment		80.8	11	PDB header: signaling protein Chain: A: PDB Molecule: dna-binding response regulator mtra; PDBTitle: crystal structure of the response regulator protein mtra from2 mycobacterium tuberculosis
6	d1xfaf1	 Alignment		80.6	17	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
7	c1kgsA_	 Alignment		80.1	12	PDB header: dna binding protein Chain: A: PDB Molecule: dna binding response regulator d; PDBTitle: crystal structure at 1.50 a of an ompr/phob homolog from thermotoga2 maritima
8	d1dbwa_	 Alignment		78.5	13	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
9	c3hv2B_	 Alignment		77.8	13	PDB header: signaling protein Chain: B: PDB Molecule: response regulator/hd domain protein; PDBTitle: crystal structure of signal receiver domain of hd domain-2 containing protein from pseudomonas fluorescens pf-5
10	c2rjnA_	 Alignment		76.6	11	PDB header: hydrolase Chain: A: PDB Molecule: response regulator receiver:metal-dependent PDBTitle: crystal structure of an uncharacterized protein q2bku2 from2 neptuniibacter caesariensis
11	d1ys7a2	 Alignment		76.2	12	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related

12	dlzgza1	Alignment		74.8	10	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
13	c3t6kB_	Alignment		73.7	10	PDB header: signaling protein Chain: B: PDB Molecule: response regulator receiver; PDBTitle: crystal structure of a hypothetical response regulator (caur_3799)2 from chloroflexus aurantiacus j-10-fl at 1.86 a resolution
14	c3grcD_	Alignment		73.7	12	PDB header: transferase Chain: D: PDB Molecule: sensor protein, kinase; PDBTitle: crystal structure of a sensor protein from polaromonas sp.2 js666
15	c3a0rB_	Alignment		73.6	14	PDB header: transferase Chain: B: PDB Molecule: response regulator; PDBTitle: crystal structure of histidine kinase thka (tm1359) in complex with2 response regulator protein trra (tm1360)
16	c2qxyB_	Alignment		73.5	10	PDB header: transcription Chain: B: PDB Molecule: response regulator; PDBTitle: crystal structure of a response regulator from thermotoga2 maritima
17	d2ayxa1	Alignment		72.3	7	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
18	d1kgsa2	Alignment		71.3	12	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
19	c1ys7B_	Alignment		71.1	12	PDB header: transcription regulator Chain: B: PDB Molecule: transcriptional regulatory protein prra; PDBTitle: crystal structure of the response regulator protein prra complexed with2 mg2+
20	d1zh2a1	Alignment		71.0	10	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
21	c3nhzA_	Alignment	not modelled	71.0	12	PDB header: dna binding protein Chain: A: PDB Molecule: two component system transcriptional regulator mtra; PDBTitle: structure of n-terminal domain of mtra
22	c3c3mA_	Alignment	not modelled	70.6	18	PDB header: signaling protein Chain: A: PDB Molecule: response regulator receiver protein; PDBTitle: crystal structure of the n-terminal domain of response regulator2 receiver protein from methanoculleus marisnigri jr1
23	c2zayA_	Alignment	not modelled	69.9	14	PDB header: signaling protein Chain: A: PDB Molecule: response regulator receiver protein; PDBTitle: crystal structure of response regulator from desulfuromonas2 acetoxidans
24	c2oqrA_	Alignment	not modelled	69.3	12	PDB header: transcription,signaling protein Chain: A: PDB Molecule: sensory transduction protein regx3; PDBTitle: the structure of the response regulator regx3 from mycobacterium2 tuberculosis
25	c2jrlA_	Alignment	not modelled	68.6	10	PDB header: transcription Chain: A: PDB Molecule: transcriptional regulator (ntrc family); PDBTitle: solution structure of the beryllofluoride-activated ntrc4 receiver2 domain dimer
26	d2pl1a1	Alignment	not modelled	67.8	16	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
27	d1peya_	Alignment	not modelled	67.7	16	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
28	d1mb3a_	Alignment	not modelled	66.6	4	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
						PDB header: structural genomics, unknown function

29	c3hdgE_	Alignment	not modelled	66.5	10	Chain: E: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of the n-terminal domain of an2 uncharacterized protein (ws1339) from wolinella3 succinogenes
30	c2qr3A_	Alignment	not modelled	66.3	10	PDB header: transcription Chain: A: PDB Molecule: two-component system response regulator; PDBTitle: crystal structure of the n-terminal signal receiver domain of two-2 component system response regulator from bacteroides fragilis
31	d1a04a2	Alignment	not modelled	66.0	12	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
32	c2qzjC_	Alignment	not modelled	65.9	10	PDB header: transcription Chain: C: PDB Molecule: two-component response regulator; PDBTitle: crystal structure of a two-component response regulator from2 clostridium difficile
33	d1s8na_	Alignment	not modelled	65.2	12	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
34	d1yioa2	Alignment	not modelled	65.1	10	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
35	d1ny5a1	Alignment	not modelled	64.9	6	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
36	d1jbea_	Alignment	not modelled	64.9	22	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
37	c1zn2A_	Alignment	not modelled	64.7	10	PDB header: transcription regulator Chain: A: PDB Molecule: response regulatory protein; PDBTitle: low resolution structure of response regulator styr
38	c3cfyA_	Alignment	not modelled	63.7	8	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative luxo repressor protein; PDBTitle: crystal structure of signal receiver domain of putative luxo2 repressor protein from vibrio parahaemolyticus
39	c3c97A_	Alignment	not modelled	62.5	8	PDB header: signaling protein, transferase Chain: A: PDB Molecule: signal transduction histidine kinase; PDBTitle: crystal structure of the response regulator receiver domain2 of a signal transduction histidine kinase from aspergillus3 oryzae
40	c3lteH_	Alignment	not modelled	62.3	11	PDB header: transcription Chain: H: PDB Molecule: response regulator; PDBTitle: crystal structure of response regulator (signal receiver domain) from2 bermanella marisrubri
41	d1zesa1	Alignment	not modelled	62.0	14	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
42	c3eq2A_	Alignment	not modelled	61.6	12	PDB header: signaling protein Chain: A: PDB Molecule: probable two-component response regulator; PDBTitle: structure of hexagonal crystal form of pseudomonas2 aeruginosa rssb
43	d1mvoa_	Alignment	not modelled	60.7	10	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
44	c3eulB_	Alignment	not modelled	59.7	11	PDB header: transcription Chain: B: PDB Molecule: possible nitrate/nitrite response transcriptional PDBTitle: structure of the signal receiver domain of the putative2 response regulator narl from mycobacterium tuberculosis
45	c2zwmA_	Alignment	not modelled	58.6	8	PDB header: transcription Chain: A: PDB Molecule: transcriptional regulatory protein yycf; PDBTitle: crystal structure of yycf receiver domain from bacillus2 subtilis
46	c1ny5A_	Alignment	not modelled	58.3	6	PDB header: transcription Chain: A: PDB Molecule: transcriptional regulator (ntrc family); PDBTitle: crystal structure of sigm54 activator (aaa+ atpase) in the inactive2 state
47	d1w25a1	Alignment	not modelled	58.2	10	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
48	c3i42A_	Alignment	not modelled	58.2	8	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: response regulator receiver domain protein (chey- PDBTitle: structure of response regulator receiver domain (chey-like)2 from methylobacillus flagellatus
49	d2a9pa1	Alignment	not modelled	58.1	18	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
50	c1rnlA_	Alignment	not modelled	57.5	12	PDB header: signal transduction protein Chain: A: PDB Molecule: nitrate/nitrite response regulator protein narl; PDBTitle: the nitrate/nitrite response regulator protein narl from narl
51	c3dzdA_	Alignment	not modelled	56.3	10	PDB header: transcription regulator Chain: A: PDB Molecule: transcriptional regulator (ntrc family); PDBTitle: crystal structure of sigma54 activator ntrc4 in the inactive2 state
52	d1krwa_	Alignment	not modelled	56.3	12	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
53	c2nt3A_	Alignment	not modelled	55.4	14	PDB header: signaling protein Chain: A: PDB Molecule: response regulator homolog; PDBTitle: receiver domain from myxococcus xanthus social motility protein frzs2 (y102a mutant)

54	d1p6qa_	Alignment	not modelled	55.2	11	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
55	c2rdmB_	Alignment	not modelled	54.9	16	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: response regulator receiver protein; PDBTitle: crystal structure of response regulator receiver protein from2 sinorhizobium medicae wsm419
56	c3rqia_	Alignment	not modelled	54.3	14	PDB header: transcription Chain: A: PDB Molecule: response regulator protein; PDBTitle: crystal structure of a response regulator protein from burkholderia2 pseudomallei with a phosphorylated aspartic acid, calcium ion and3 citrate
57	c3nhmA_	Alignment	not modelled	54.2	8	PDB header: signaling protein Chain: A: PDB Molecule: response regulator; PDBTitle: crystal structure of a response regulator from myxococcus xanthus
58	c1w25B_	Alignment	not modelled	53.2	10	PDB header: signaling protein Chain: B: PDB Molecule: stalked-cell differentiation controlling protein; PDBTitle: response regulator pled in complex with c-digmp
59	d1heya_	Alignment	not modelled	52.9	15	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
60	c3crnA_	Alignment	not modelled	52.4	19	PDB header: signaling protein Chain: A: PDB Molecule: response regulator receiver domain protein, chey-like; PDBTitle: crystal structure of response regulator receiver domain protein (chey-2 like) from methanospirillum hungatei jf-1
61	c3gl9B_	Alignment	not modelled	52.1	10	PDB header: signaling protein Chain: B: PDB Molecule: response regulator; PDBTitle: the structure of a histidine kinase-response regulator2 complex sheds light into two-component signaling and3 reveals a novel cis autophosphorylation mechanism
62	c2j48A_	Alignment	not modelled	50.8	8	PDB header: transferase Chain: A: PDB Molecule: two-component sensor kinase; PDBTitle: nmr structure of the pseudo-receiver domain of the cika2 protein.
63	c3gt7A_	Alignment	not modelled	49.0	14	PDB header: hydrolase Chain: A: PDB Molecule: sensor protein; PDBTitle: crystal structure of signal receiver domain of signal2 transduction histidine kinase from syntrophus3 aciditrophicus
64	c2ayxA_	Alignment	not modelled	48.4	7	PDB header: transferase Chain: A: PDB Molecule: sensor kinase protein rcsc; PDBTitle: solution structure of the e.coli rcsc c-terminus (residues2 700-949) containing linker region and phosphoreceiver3 domain
65	c1a2oB_	Alignment	not modelled	48.3	4	PDB header: bacterial chemotaxis Chain: B: PDB Molecule: cheb methyltransferase; PDBTitle: structural basis for methyltransferase cheb regulation by a2 phosphorylation-activated domain
66	c3k2dA_	Alignment	not modelled	48.2	10	PDB header: immune system Chain: A: PDB Molecule: abc-type metal ion transport system, periplasmic component; PDBTitle: crystal structure of immunogenic lipoprotein a from vibrio vulnificus
67	c3hdvB_	Alignment	not modelled	47.7	8	PDB header: transcription regulator Chain: B: PDB Molecule: response regulator; PDBTitle: crystal structure of response regulator receiver protein from2 pseudomonas putida
68	c3lufB_	Alignment	not modelled	44.9	14	PDB header: signaling protein Chain: B: PDB Molecule: two-component system response regulator/ggdef PDBTitle: structure of probable two-component system response2 regulator/ggdef domain protein
69	c3fkqA_	Alignment	not modelled	43.6	12	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: ntrc-like two-domain protein; PDBTitle: crystal structure of ntrc-like two-domain protein (rer070207001320)2 from eubacterium rectale at 2.10 a resolution
70	d1a2oa1	Alignment	not modelled	43.2	4	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
71	c3ktoA_	Alignment	not modelled	42.1	10	PDB header: transcription regulator Chain: A: PDB Molecule: response regulator receiver protein; PDBTitle: crystal structure of response regulator receiver protein2 from pseudoalteromonas atlantica
72	c3f6cB_	Alignment	not modelled	40.9	14	PDB header: dna binding protein Chain: B: PDB Molecule: positive transcription regulator evga; PDBTitle: crystal structure of n-terminal domain of positive transcription2 regulator evga from escherichia coli
73	d1dz3a_	Alignment	not modelled	40.5	14	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
74	c3cz5B_	Alignment	not modelled	39.9	15	PDB header: transcription regulator Chain: B: PDB Molecule: two-component response regulator, luxr family; PDBTitle: crystal structure of two-component response regulator, luxr family,2 from aurantimonas sp. si85-9a1
75	c3t8yA_	Alignment	not modelled	39.8	6	PDB header: hydrolase Chain: A: PDB Molecule: chemotaxis response regulator protein-glutamate PDBTitle: crystal structure of the response regulator domain of thermotoga2 maritima cheb
76	c3cnbC_	Alignment	not modelled	36.8	10	PDB header: dna binding protein Chain: C: PDB Molecule: dna-binding response regulator, merr family; PDBTitle: crystal structure of signal receiver domain of dna binding response2 regulator protein (merr) from colwellia psychrerythraea 34h
77	c3b2nA_	Alignment	not modelled	33.9	14	PDB header: transcription Chain: A: PDB Molecule: uncharacterized protein q99uf4; PDBTitle: crystal structure of dna-binding response regulator, luxr

						family, from2 staphylococcus aureus
78	c3ir1F_	Alignment	not modelled	32.9	9	PDB header: protein binding Chain: F: PDB Molecule: outer membrane lipoprotein gna1946; PDBTitle: crystal structure of lipoprotein gna1946 from neisseria2 meningitidis
79	c3jteA_	Alignment	not modelled	32.1	16	PDB header: protein binding Chain: A: PDB Molecule: response regulator receiver protein; PDBTitle: crystal structure of response regulator receiver domain2 protein from clostridium thermocellum
80	c2qv0A_	Alignment	not modelled	31.7	6	PDB header: transcription Chain: A: PDB Molecule: protein mrke; PDBTitle: crystal structure of the response regulatory domain of2 protein mrke from klebsiella pneumoniae
81	d2b4aa1	Alignment	not modelled	29.8	4	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
82	d1u0sy_	Alignment	not modelled	29.7	10	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
83	c3klnC_	Alignment	not modelled	28.7	11	PDB header: transcription Chain: C: PDB Molecule: transcriptional regulator, luxr family; PDBTitle: vibrio cholerae vpst
84	c3h5iA_	Alignment	not modelled	28.4	18	PDB header: transcription Chain: A: PDB Molecule: response regulator/sensory box protein/ggdef PDBTitle: crystal structure of the n-terminal domain of a response2 regulator/sensory box/ggdef 3-domain protein from3 carboxythermus hydrogenofrans
85	c3n53B_	Alignment	not modelled	27.8	23	PDB header: transcription Chain: B: PDB Molecule: response regulator receiver modulated diguanylate cyclase; PDBTitle: crystal structure of a response regulator receiver modulated2 diguanylate cyclase from pelobacter carbinolicus
86	d1qkka_	Alignment	not modelled	25.7	22	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
87	c3breA_	Alignment	not modelled	25.3	12	PDB header: signaling protein Chain: A: PDB Molecule: probable two-component response regulator; PDBTitle: crystal structure of p.aeruginosa pa3702
88	c3i5aA_	Alignment	not modelled	23.2	12	PDB header: signaling protein Chain: A: PDB Molecule: response regulator/ggdef domain protein; PDBTitle: crystal structure of full-length wpsr from pseudomonas syringae
89	c3hzhA_	Alignment	not modelled	19.7	13	PDB header: signaling protein Chain: A: PDB Molecule: chemotaxis response regulator (cheY-3); PDBTitle: crystal structure of the cheX-cheY-bef3-mg+2 complex from2 borrelia burgdorferi
90	c2hqrA_	Alignment	not modelled	18.6	12	PDB header: signaling protein Chain: A: PDB Molecule: putative transcriptional regulator; PDBTitle: structure of a atypical orphan response regulator protein revealed a2 new phosphorylation-independent regulatory mechanism
91	c2q5cA_	Alignment	not modelled	18.6	8	PDB header: transcription Chain: A: PDB Molecule: ntrc family transcriptional regulator; PDBTitle: crystal structure of ntrc family transcriptional regulator from2 clostridium acetobutylicum
92	c3c3wB_	Alignment	not modelled	17.8	18	PDB header: transcription Chain: B: PDB Molecule: two component transcriptional regulatory protein devr; PDBTitle: crystal structure of the mycobacterium tuberculosis hypoxic response2 regulator dosr
93	c3snkA_	Alignment	not modelled	17.7	10	PDB header: signaling protein Chain: A: PDB Molecule: response regulator cheY-like protein; PDBTitle: crystal structure of a response regulator cheY-like protein (ml16475)2 from mesorhizobium loti at 2.02 a resolution
94	c3gxaA_	Alignment	not modelled	17.6	9	PDB header: protein binding Chain: A: PDB Molecule: outer membrane lipoprotein gna1946; PDBTitle: crystal structure of gna1946
95	c3kyiB_	Alignment	not modelled	17.1	13	PDB header: transferase Chain: B: PDB Molecule: cheY6 protein; PDBTitle: crystal structure of the phosphorylated p1 domain of chea3 in complex2 with cheY6 from r. sphaeroides
96	c3khtA_	Alignment	not modelled	16.4	10	PDB header: signaling protein Chain: A: PDB Molecule: response regulator; PDBTitle: crystal structure of response regulator from hahella chejuensis
97	c2jk1A_	Alignment	not modelled	15.8	16	PDB header: dna-binding Chain: A: PDB Molecule: hydrogenase transcriptional regulatory protein hupr1; PDBTitle: crystal structure of the wild-type hupr receiver domain
98	c2hqaA_	Alignment	not modelled	15.1	13	PDB header: signaling protein Chain: A: PDB Molecule: putative transcriptional regulator; PDBTitle: structure of a atypical orphan response regulator protein revealed a2 new phosphorylation-independent regulatory mechanism
99	c3luaA_	Alignment	not modelled	14.8	8	PDB header: transcription regulator Chain: A: PDB Molecule: response regulator receiver protein; PDBTitle: crystal structure of a signal receiver domain of two component signal2 transduction (histidine kinase) from clostridium thermocellum