

Phyre2

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Description	P0ACZ4
Date	Thu Jan 5 11:19:30 GMT 2012
Unique Job ID	740bbb2d07ff809e

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3c3wB_			100.0	26	PDB header: transcription Chain: B: PDB Molecule: two component transcriptional regulatory protein devr; PDBTitle: crystal structure of the mycobacterium tuberculosis hypoxic response2 regulator dosr
2	c1zn2A_			100.0	22	PDB header: transcription regulator Chain: A: PDB Molecule: response regulatory protein; PDBTitle: low resolution structure of response regulator styr
3	c1rn1A_			100.0	26	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
4	c3klnC_			100.0	17	PDB header: transcription Chain: C: PDB Molecule: transcriptional regulator, luxr family; PDBTitle: vibrio cholerae vpst
5	c1kgsA_			100.0	15	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
6	c3r0jA_			99.9	21	PDB header: dna binding protein Chain: A: PDB Molecule: possible two component system response transcriptional PDBTitle: structure of phop from mycobacterium tuberculosis
7	c1ys7B_			99.9	19	PDB header: transcription regulator Chain: B: PDB Molecule: transcriptional regulatory protein prra; PDBTitle: crystal structure of the response regulator protein prra complexed with2 mg2+
8	c2qwrA_			99.9	21	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
9	c2oqrA_			99.9	24	PDB header: transcription,signaling protein Chain: A: PDB Molecule: sensory transduction protein regx3; PDBTitle: the structure of the response regulator regx3 from mycobacterium2 tuberculosis
10	c2hqrA_			99.9	9	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
11	d1s8na_			99.9	21	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related

12	c1p2fA_	Alignment		99.9	16	PDB header: transcription Chain: A: PDB Molecule: response regulator; PDBTitle: crystal structure analysis of response regulator drrb, a2 thermotoga maritima ompr/phob homolog
13	c2ayxA_	Alignment		99.8	20	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
14	c3eq2A_	Alignment		99.8	20	PDB header: signaling protein Chain: A: PDB Molecule: probable two-component response regulator; PDBTitle: structure of hexagonal crystal form of pseudomonas2 aeruginosa rssb
15	c1ny5A_	Alignment		99.7	20	PDB header: transcription Chain: A: PDB Molecule: transcriptional regulator (ntrc family); PDBTitle: crystal structure of sigm54 activator (aaa+ atpase) in the inactive2 state
16	d1ny5a1	Alignment		99.7	20	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
17	d1u0sy_	Alignment		99.7	28	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
18	d1jbea_	Alignment		99.7	21	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
19	c3b2nA_	Alignment		99.7	27	PDB header: transcription Chain: A: PDB Molecule: uncharacterized protein q99uf4; PDBTitle: crystal structure of dna-binding response regulator, luxr family, from2 staphylococcus aureus
20	c3cz5B_	Alignment		99.7	27	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
21	c3f6cB_	Alignment	not modelled	99.7	99	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
22	c1w25B_	Alignment	not modelled	99.7	19	PDB header: signaling protein Chain: B: PDB Molecule: stalked-cell differentiation controlling protein; PDBTitle: response regulator pled in complex with c-digmp
23	c3breA_	Alignment	not modelled	99.7	22	PDB header: signaling protein Chain: A: PDB Molecule: probable two-component response regulator; PDBTitle: crystal structure of p.aeruginosa pa3702
24	c3sztB_	Alignment	not modelled	99.7	14	PDB header: transcription Chain: B: PDB Molecule: quorum-sensing control repressor; PDBTitle: quorum sensing control repressor, qscr, bound to n-3-oxo-dodecanoyl-l-2 homoserine lactone
25	c3eulB_	Alignment	not modelled	99.7	24	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
26	d1dz3a_	Alignment	not modelled	99.7	23	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
27	d1kgsa2	Alignment	not modelled	99.7	19	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
28	c3cu5B_	Alignment	not modelled	99.7	20	PDB header: transcription regulator Chain: B: PDB Molecule: two component transcriptional regulator, arac family; PDBTitle: crystal structure of a two component transcriptional

					regulator arac2 from clostridium phytofermentans isdg 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
29	c1h0mD_	Alignment	not modelled	99.7	21
30	c2q0aA_	Alignment	not modelled	99.7	22
31	d1ys7a2	Alignment	not modelled	99.7	21
32	c1a2oB_	Alignment	not modelled	99.7	15
33	c3rqia_	Alignment	not modelled	99.7	12
34	d1a04a2	Alignment	not modelled	99.7	27
35	d1peva_	Alignment	not modelled	99.7	21
36	d2pl1a1	Alignment	not modelled	99.7	18
37	d2ayxa1	Alignment	not modelled	99.7	20
38	d2a9pa1	Alignment	not modelled	99.7	28
39	c3dzdA_	Alignment	not modelled	99.7	13
40	c3hdgE_	Alignment	not modelled	99.7	17
41	d1mvoa_	Alignment	not modelled	99.7	23
42	d1dbwa_	Alignment	not modelled	99.7	19
43	c2zwmA_	Alignment	not modelled	99.7	26
44	c3i5aA_	Alignment	not modelled	99.7	22
45	c3qp5C_	Alignment	not modelled	99.7	23
46	c2rjnA_	Alignment	not modelled	99.7	17
47	d1qkka_	Alignment	not modelled	99.7	18
48	c2qr3A_	Alignment	not modelled	99.7	19
49	c2jrlA_	Alignment	not modelled	99.7	14
50	c3cfyA_	Alignment	not modelled	99.7	18
51	d1krwa_	Alignment	not modelled	99.7	19
52	c3h1gA_	Alignment	not modelled	99.7	20
53	d1p6qa_	Alignment	not modelled	99.7	22

54	c2qv0A	Alignment	not modelled	99.7	19	PDB header: transcription Chain: A: PDB Molecule: protein mrke; PDBTitle: crystal structure of the response regulatory domain of2 protein mrke from klebsiella pneumoniae
55	c3nhzA	Alignment	not modelled	99.7	25	PDB header: dna binding protein Chain: A: PDB Molecule: two component system transcriptional regulator mtra; PDBTitle: structure of n-terminal domain of mtra
56	d1w25a1	Alignment	not modelled	99.7	19	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
57	d1yioa2	Alignment	not modelled	99.7	21	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
58	d1zh2a1	Alignment	not modelled	99.7	25	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
59	d1heya	Alignment	not modelled	99.7	19	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
60	c3hv2B	Alignment	not modelled	99.7	16	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
61	c2qzjC	Alignment	not modelled	99.7	14	PDB header: transcription Chain: C: PDB Molecule: two-component response regulator; PDBTitle: crystal structure of a two-component response regulator from2 clostridium difficile
62	c3jteA	Alignment	not modelled	99.7	22	PDB header: protein binding Chain: A: PDB Molecule: response regulator receiver protein; PDBTitle: crystal structure of response regulator receiver domain2 protein from clostridium thermocellum
63	c3hzhA	Alignment	not modelled	99.7	19	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
64	c3qt7A	Alignment	not modelled	99.6	18	PDB header: hydrolase Chain: A: PDB Molecule: sensor protein; PDBTitle: crystal structure of signal receiver domain of signal2 transduction histidine kinase from syntrophus3 aciditrophicus
65	d1zgza1	Alignment	not modelled	99.6	18	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
66	c3t6kB	Alignment	not modelled	99.6	21	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
67	d1zesa1	Alignment	not modelled	99.6	20	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
68	c3t8yA	Alignment	not modelled	99.6	22	PDB header: hydrolase Chain: A: PDB Molecule: chemotaxis response regulator protein-glutamate PDBTitle: crystal structure of the response regulator domain of thermotoga2 maritima cheB
69	d2r25b1	Alignment	not modelled	99.6	23	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
70	c3crnA	Alignment	not modelled	99.6	16	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
71	c2zayA	Alignment	not modelled	99.6	18	PDB header: signaling protein Chain: A: PDB Molecule: response regulator receiver protein; PDBTitle: crystal structure of response regulator from desulfuromonas2 acetoxidans
72	c3lteH	Alignment	not modelled	99.6	22	PDB header: transcription Chain: H: PDB Molecule: response regulator; PDBTitle: crystal structure of response regulator (signal receiver domain) from2 bermanella marisrubri
73	d1xfha1	Alignment	not modelled	99.6	16	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
74	c3cnbC	Alignment	not modelled	99.6	17	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
75	d1a2oa1	Alignment	not modelled	99.6	17	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
76	c3cloC	Alignment	not modelled	99.6	24	PDB header: transcription regulator Chain: C: PDB Molecule: transcriptional regulator; PDBTitle: crystal structure of putative transcriptional regulator containing a2 luxr dna binding domain (np_811094.1) from bacteroides3 thetaiotomicron vpi-5482 at 2.04 a resolution
77	c3a0rB	Alignment	not modelled	99.6	21	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)
78	c3c0A	Alignment	not modelled	99.6	21	PDB header: lyase Chain: A: PDB Molecule: response regulator receiver modulated diguanylate cyclase

78	c3cg4A_	Alignment	not modelled	99.6	21	PDBTitle: crystal structure of signal receiver domain of modulated diguanylate2 cyclase from desulfovibrio desulfuricans g20, an example of alternate3 folding
79	c3cg4A_	Alignment	not modelled	99.6	16	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
80	d1p4wa_	Alignment	not modelled	99.6	26	Fold: DNA/RNA-binding 3-helical bundle Superfamily: C-terminal effector domain of the bipartite response regulators Family: GerE-like (LuxR/UhpA family of transcriptional regulators)
81	c3c3mA_	Alignment	not modelled	99.6	15	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
82	c2qxyB_	Alignment	not modelled	99.6	17	PDB header: transcription Chain: B: PDB Molecule: response regulator; PDBTitle: crystal structure of a response regulator from thermotoga2 maritima
83	c2jk1A_	Alignment	not modelled	99.6	23	PDB header: dna-binding Chain: A: PDB Molecule: hydrogenase transcriptional regulatory protein hupr1; PDBTitle: crystal structure of the wild-type hupr receiver domain
84	c3hebB_	Alignment	not modelled	99.6	21	PDB header: transcription regulator Chain: B: PDB Molecule: response regulator receiver domain protein (chey); PDBTitle: crystal structure of response regulator receiver domain from2 rhodospirillum rubrum
85	c3c97A_	Alignment	not modelled	99.6	18	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
86	c2krfB_	Alignment	not modelled	99.6	21	PDB header: transcription Chain: B: PDB Molecule: transcriptional regulatory protein coma; PDBTitle: nmr solution structure of the dna binding domain of competence protein2 a
87	d1k66a_	Alignment	not modelled	99.6	13	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
88	c3khtA_	Alignment	not modelled	99.6	29	PDB header: signaling protein Chain: A: PDB Molecule: response regulator; PDBTitle: crystal structure of response regulator from hahella chejuensis
89	c1zljE_	Alignment	not modelled	99.6	32	PDB header: transcription Chain: E: PDB Molecule: dormancy survival regulator; PDBTitle: crystal structure of the mycobacterium tuberculosis hypoxic2 response regulator dosr c-terminal domain
90	c3n0rA_	Alignment	not modelled	99.6	19	PDB header: signaling protein Chain: A: PDB Molecule: response regulator; PDBTitle: structure of the phyr stress response regulator at 1.25 angstrom2 resolution
91	d1mb3a_	Alignment	not modelled	99.6	22	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
92	d1l3la1	Alignment	not modelled	99.6	23	Fold: DNA/RNA-binding 3-helical bundle Superfamily: C-terminal effector domain of the bipartite response regulators Family: GerE-like (LuxR/UhpA family of transcriptional regulators)
93	c3i42A_	Alignment	not modelled	99.6	18	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: response regulator receiver domain protein (chey-like) PDBTitle: structure of response regulator receiver domain (chey-like)2 from methylobacillus flagellatus
94	c3kcnA_	Alignment	not modelled	99.6	20	PDB header: lyase Chain: A: PDB Molecule: adenylate cyclase homolog; PDBTitle: the crystal structure of adenylate cyclase from2 rhodopirellula baltica
95	c3mmnA_	Alignment	not modelled	99.6	22	PDB header: transferase Chain: A: PDB Molecule: histidine kinase homolog; PDBTitle: crystal structure of the receiver domain of the histidine kinase cki12 from arabidopsis thaliana complexed with mg2+
96	d1a04a1	Alignment	not modelled	99.6	21	Fold: DNA/RNA-binding 3-helical bundle Superfamily: C-terminal effector domain of the bipartite response regulators Family: GerE-like (LuxR/UhpA family of transcriptional regulators)
97	d1fsea_	Alignment	not modelled	99.6	30	Fold: DNA/RNA-binding 3-helical bundle Superfamily: C-terminal effector domain of the bipartite response regulators Family: GerE-like (LuxR/UhpA family of transcriptional regulators)
98	c3snkA_	Alignment	not modelled	99.6	14	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
99	c3m6mF_	Alignment	not modelled	99.6	25	PDB header: lyase/transferase Chain: F: PDB Molecule: sensory/regulatory protein rpfc; PDBTitle: crystal structure of rpff complexed with rec domain of rpfc
100	c2rdmB_	Alignment	not modelled	99.6	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
101	c3grcD_	Alignment	not modelled	99.6	15	PDB header: transferase Chain: D: PDB Molecule: sensor protein, kinase; PDBTitle: crystal structure of a sensor protein from polaromonas sp.2 js666
102	c2qvgA_	Alignment	not modelled	99.6	19	PDB header: transferase Chain: A: PDB Molecule: two component response regulator; PDBTitle: the crystal structure of a two-component response regulator2 from legionella pneumophila

103	c1x3uA	Alignment	not modelled	99.6	33	PDB header: transcription Chain: A: PDB Molecule: transcriptional regulatory protein fixj; PDBTitle: solution structure of the c-terminal transcriptional2 activator domain of fixj from sinorhizobium melilot
104	c2rnjA	Alignment	not modelled	99.6	26	PDB header: transcription Chain: A: PDB Molecule: response regulator protein vvar; PDBTitle: nmr structure of the s. aureus vvar dna binding domain
105	c3gl9B	Alignment	not modelled	99.6	21	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
106	c2hqaA	Alignment	not modelled	99.5	15	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
107	c3hdvB	Alignment	not modelled	99.5	16	PDB header: transcription regulator Chain: B: PDB Molecule: response regulator; PDBTitle: crystal structure of response regulator receiver protein from2 pseudomonas putida
108	d1p2fa2	Alignment	not modelled	99.5	15	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
109	d1i3ca	Alignment	not modelled	99.5	13	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
110	c3nhmA	Alignment	not modelled	99.5	20	PDB header: signaling protein Chain: A: PDB Molecule: response regulator; PDBTitle: crystal structure of a response regulator from myxococcus xanthus
111	d2b4aa1	Alignment	not modelled	99.5	15	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
112	c3ihA	Alignment	not modelled	99.5	20	PDB header: transcription regulator Chain: A: PDB Molecule: two component response regulator; PDBTitle: crystal structure of two component response regulator from cytophaga2 hutchinsonii
113	d1yioa1	Alignment	not modelled	99.5	28	Fold: DNA/RNA-binding 3-helical bundle Superfamily: C-terminal effector domain of the bipartite response regulators Family: GerE-like (LuxR/UhpA family of transcriptional regulators)
114	c3h5iA	Alignment	not modelled	99.5	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 carboxydotherrnus hydrogenoformans
115	d1dcfa	Alignment	not modelled	99.5	17	Fold: Flavodoxin-like Superfamily: CheY-like Family: Receiver domain of the ethylene receptor
116	c3eodA	Alignment	not modelled	99.5	19	PDB header: signaling protein Chain: A: PDB Molecule: protein hnr; PDBTitle: crystal structure of n-terminal domain of e. coli rssb
117	c2jpcA	Alignment	not modelled	99.5	35	PDB header: dna binding protein Chain: A: PDB Molecule: ssrb; PDBTitle: ssrb dna binding protein
118	c3eqzB	Alignment	not modelled	99.5	17	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: response regulator; PDBTitle: crystal structure of a response regulator from colwellia2 psychrerythraea
119	c3luaA	Alignment	not modelled	99.5	13	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
120	c2j48A	Alignment	not modelled	99.5	15	PDB header: transferase Chain: A: PDB Molecule: two-component sensor kinase; PDBTitle: nmr structure of the pseudo-receiver domain of the cika2 protein.