



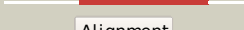

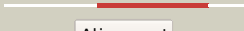









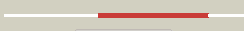










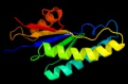




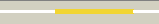
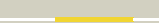
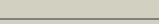

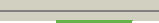
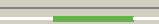
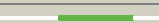


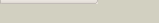
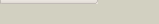
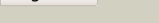
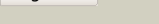
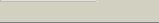

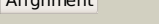
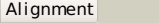
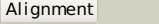
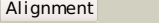
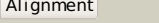
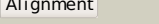
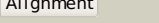
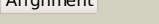
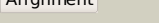
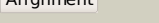


#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1w25B_	 Alignment		100.0	31	PDB header: signaling protein Chain: B: PDB Molecule: stalked-cell differentiation controlling protein; PDBTitle: response regulator pled in complex with c-digmp
2	c3ezuA_	 Alignment		100.0	20	PDB header: signaling protein Chain: A: PDB Molecule: ggdef domain protein; PDBTitle: crystal structure of multidomain protein of unknown function with2 ggdef-domain (np_951600.1) from geobacter sulfurreducens at 1.95 a3 resolution
3	c3breA_	 Alignment		100.0	30	PDB header: signaling protein Chain: A: PDB Molecule: probable two-component response regulator; PDBTitle: crystal structure of p.aeruginosa pa3702
4	c3ic1A_	 Alignment		100.0	31	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: eal/ggdef domain protein; PDBTitle: x-ray structure of protein (eal/ggdef domain protein) from2 m.capsulatus, northeast structural genomics consortium3 target mcr174c
5	c3ignA_	 Alignment		100.0	35	PDB header: transferase Chain: A: PDB Molecule: diguanylate cyclase; PDBTitle: crystal structure of the ggdef domain from marinobacter2 aquaeolei diguanylate cyclase complexed with c-di-gmp -3 northeast structural genomics consortium target mqr89a
6	c3i5bA_	 Alignment		100.0	32	PDB header: signaling protein Chain: A: PDB Molecule: wsprr response regulator; PDBTitle: crystal structure of the isolated ggdef domain of wsprr from2 pseudomonas aeruginosa
7	c3hvaA_	 Alignment		100.0	20	PDB header: transferase Chain: A: PDB Molecule: protein fimx; PDBTitle: crystal structure of fimx ggdef domain from pseudomonas2 aeruginosa
8	c3mtkA_	 Alignment		100.0	20	PDB header: transferase Chain: A: PDB Molecule: diguanylate cyclase/phosphodiesterase; PDBTitle: x-ray structure of diguanylate cyclase/phosphodiesterase from2 caldicellulosiruptor saccharolyticus, northeast structural genomics3 consortium target clr27c
9	d1w25a3	 Alignment		100.0	36	Fold: Ferredoxin-like Superfamily: Nucleotide cyclase Family: GGDEF domain
10	c3i5aA_	 Alignment		100.0	30	PDB header: signaling protein Chain: A: PDB Molecule: response regulator/ggdef domain protein; PDBTitle: crystal structure of full-length wsprr from pseudomonas syringae
11	c3i5cA_	 Alignment		100.0	30	PDB header: signaling protein Chain: A: PDB Molecule: fusion of general control protein gcn4 and wsprr response PDBTitle: crystal structure of a fusion protein containing the leucine zipper of2 gcn4 and the ggdef domain of wsprr from pseudomonas aeruginosa

12	c3qyyB_	Alignment		100.0	32	PDB header: signaling protein/inhibitor Chain: B: PDB Molecule: response regulator; PDBTitle: a novel interaction mode between a microbial ggdef domain and the bis-2 (3, 5)-cyclic di-gmp
13	c3pjwA_	Alignment		100.0	20	PDB header: lyase Chain: A: PDB Molecule: cyclic dimeric gmp binding protein; PDBTitle: structure of pseudomonas fluorescence lapd ggdef-eal dual domain, i23
14	c3hvwA_	Alignment		99.9	14	PDB header: lyase Chain: A: PDB Molecule: diguanylate-cyclase (dgc); PDBTitle: crystal structure of the ggdef domain of the pa2567 protein2 from pseudomonas aeruginosa, northeast structural genomics3 consortium target par365c
15	c3gfbB_	Alignment		99.5	11	PDB header: hydrolase, signaling protein Chain: B: PDB Molecule: klebsiella pneumoniae blrp1; PDBTitle: klebsiella pneumoniae blrp1 ph 6 manganese/cy-digmp complex
16	c3p7nB_	Alignment		98.3	13	PDB header: dna binding protein Chain: B: PDB Molecule: sensor histidine kinase; PDBTitle: crystal structure of light activated transcription factor el222 from2 erythrobacter litoralis
17	c2qv6D_	Alignment		97.0	15	PDB header: hydrolase Chain: D: PDB Molecule: gtp cyclohydrolase iii; PDBTitle: gtp cyclohydrolase iii from m. jannaschii (mj0145)2 complexed with gtp and metal ions
18	c3mr7B_	Alignment		94.0	10	PDB header: hydrolase Chain: B: PDB Molecule: adenylate/guanylate cyclase/hydrolase, alpha/beta fold PDBTitle: crystal structure of adenylate/guanylate cyclase/hydrolase from2 silicibacter pomeroyi
19	dlwc1a_	Alignment		88.8	13	Fold: Ferredoxin-like Superfamily: Nucleotide cyclase Family: Adenylyl and guanylyl cyclase catalytic domain
20	clcjkA_	Alignment		87.2	9	PDB header: lyase/lyase/signaling protein Chain: A: PDB Molecule: adenylate cyclase, type v; PDBTitle: complex of gs-alpha with the catalytic domains of mammalian adenylyl2 cyclase: complex with adenosine 5'-(alpha thio)-triphosphate (rp),3 mg, and mn
21	c3uviC_	Alignment	not modelled	85.7	12	PDB header: lyase Chain: C: PDB Molecule: guanylate cyclase soluble subunit alpha-3; PDBTitle: crystal structure of the catalytic domain of the heterodimeric human2 soluble guanylate cyclase 1.
22	dlfx2a_	Alignment	not modelled	85.1	21	Fold: Ferredoxin-like Superfamily: Nucleotide cyclase Family: Adenylyl and guanylyl cyclase catalytic domain
23	c1ybuA_	Alignment	not modelled	84.7	15	PDB header: hydrolase Chain: A: PDB Molecule: lipj; PDBTitle: mycobacterium tuberculosis adenylyl cyclase rv1900c chd, in complex2 with a substrate analog.
24	c3et6A_	Alignment	not modelled	83.7	13	PDB header: lyase Chain: A: PDB Molecule: soluble guanylyl cyclase beta; PDBTitle: the crystal structure of the catalytic domain of a eukaryotic2 guanylate cyclase
25	dlazsa_	Alignment	not modelled	82.9	9	Fold: Ferredoxin-like Superfamily: Nucleotide cyclase Family: Adenylyl and guanylyl cyclase catalytic domain
26	c3r5gB_	Alignment	not modelled	82.5	12	PDB header: lyase Chain: B: PDB Molecule: cyab; PDBTitle: crystal structure of the adenylyl cyclase cyab from p. aeruginosa
27	c1y10C_	Alignment	not modelled	80.4	10	PDB header: lyase Chain: C: PDB Molecule: hypothetical protein rv1264/mt1302; PDBTitle: mycobacterial adenylyl cyclase rv1264, holoenzyme, inhibited state
28	clwc6B_	Alignment	not modelled	77.0	13	PDB header: lyase Chain: B: PDB Molecule: adenylate cyclase; PDBTitle: soluble adenylyl cyclase cyac from s. platensis in complex2 with rp-atpalphas in presence of bicarbonate

29	c2aq4A	 Alignment	not modelled	74.4	20	PDB header: transferase Chain: A: PDB Molecule: dna repair protein rev1; PDBTitle: ternary complex of the catalytic core of rev1 with dna and dctp.
30	c3gqcB	 Alignment	not modelled	74.3	19	PDB header: transferase/dna Chain: B: PDB Molecule: dna repair protein rev1; PDBTitle: structure of human rev1-dna-dntp ternary complex
31	c2wz1B	 Alignment	not modelled	73.7	10	PDB header: lyase Chain: B: PDB Molecule: guanylate cyclase soluble subunit beta-1; PDBTitle: structure of the catalytic domain of human soluble2 guanylate cyclase 1 beta 3.
32	dlfx4a	 Alignment	not modelled	67.0	22	Fold: Ferredoxin-like Superfamily: Nucleotide cyclase Family: Adenyllyl and guanylyl cyclase catalytic domain
33	c1s97D	 Alignment	not modelled	59.3	22	PDB header: transferase/dna Chain: D: PDB Molecule: dna polymerase iv; PDBTitle: dpo4 with gt mismatch
34	dlazsb	 Alignment	not modelled	59.1	9	Fold: Ferredoxin-like Superfamily: Nucleotide cyclase Family: Adenyllyl and guanylyl cyclase catalytic domain
35	c2w01C	 Alignment	not modelled	53.9	14	PDB header: lyase Chain: C: PDB Molecule: adenylate cyclase; PDBTitle: crystal structure of the guanylyl cyclase cya2
36	c1k1qA	 Alignment	not modelled	52.4	20	PDB header: transcription Chain: A: PDB Molecule: dbb protein; PDBTitle: crystal structure of a dinb family error prone dna2 polymerase from <i>Sulfolobus solfataricus</i>
37	c3onqB	 Alignment	not modelled	47.4	7	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: regulator of polyketide synthase expression; PDBTitle: crystal structure of regulator of polyketide synthase expression2 bad_0249 from <i>Bifidobacterium adolescentis</i>
38	dlim4a	 Alignment	not modelled	44.3	20	Fold: DNA/RNA polymerases Superfamily: DNA/RNA polymerases Family: Lesion bypass DNA polymerase (Y-family), catalytic domain
39	c1yk9A	 Alignment	not modelled	38.1	11	PDB header: lyase Chain: A: PDB Molecule: adenylate cyclase; PDBTitle: crystal structure of a mutant form of the mycobacterial2 adenyllyl cyclase rv1625c
40	c3mr2A	 Alignment	not modelled	26.3	18	PDB header: transferase/dna Chain: A: PDB Molecule: dna polymerase eta; PDBTitle: human dna polymerase eta in complex with normal dna and incoming2 nucleotide (nrm)
41	c2oh2B	 Alignment	not modelled	24.5	17	PDB header: transferase/dna Chain: B: PDB Molecule: dna polymerase kappa; PDBTitle: ternary complex of human dna polymerase
42	dljx4a2	 Alignment	not modelled	23.1	22	Fold: DNA/RNA polymerases Superfamily: DNA/RNA polymerases Family: Lesion bypass DNA polymerase (Y-family), catalytic domain
43	c1xaxA	 Alignment	not modelled	14.5	15	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical upf0054 protein hi0004; PDBTitle: nmr structure of hi0004, a putative essential gene product2 from <i>Haemophilus influenzae</i>
44	c3lfhF	 Alignment	not modelled	13.6	13	PDB header: transferase Chain: F: PDB Molecule: phosphotransferase system, mannose/fructose-specific PDBTitle: crystal structure of manxa from <i>Thermoanaerobacter tengcongensis</i>
45	c2vg2C	 Alignment	not modelled	11.5	19	PDB header: transferase Chain: C: PDB Molecule: undecaprenyl pyrophosphate synthetase; PDBTitle: rv2361 with ipp
46	c2r8kB	 Alignment	not modelled	10.3	20	PDB header: replication, transferase/dna Chain: B: PDB Molecule: dna polymerase eta; PDBTitle: structure of the eukaryotic dna polymerase eta in complex with 1,2-2 d(gpg)-cisplatin containing dna
47	c1jihA	 Alignment	not modelled	10.2	20	PDB header: translation Chain: A: PDB Molecule: dna polymerase eta; PDBTitle: yeast dna polymerase eta
48	dlzbfa1	 Alignment	not modelled	10.0	13	Fold: Ribonuclease H-like motif Superfamily: Ribonuclease H-like Family: Ribonuclease H
49	c3l0oB	 Alignment	not modelled	9.9	19	PDB header: hydrolase Chain: B: PDB Molecule: transcription termination factor rho; PDBTitle: structure of rna-free rho transcription termination factor from <i>Thermotoga maritima</i>
50	d2o5aa1	 Alignment	not modelled	9.8	8	Fold: Nucleotidyltransferase Superfamily: Nucleotidyltransferase Family: lojap/YbeB-like
51	dljiha2	 Alignment	not modelled	8.9	20	Fold: DNA/RNA polymerases Superfamily: DNA/RNA polymerases Family: Lesion bypass DNA polymerase (Y-family), catalytic domain
52	c2d4vD	 Alignment	not modelled	8.5	7	PDB header: oxidoreductase Chain: D: PDB Molecule: isocitrate dehydrogenase; PDBTitle: crystal structure of nad dependent isocitrate dehydrogenase2 from <i>Acidithiobacillus thiooxidans</i>
53	dlk1sa2	 Alignment	not modelled	8.4	18	Fold: DNA/RNA polymerases Superfamily: DNA/RNA polymerases Family: Lesion bypass DNA polymerase (Y-family), catalytic domain
54	c2kq2A	 Alignment	not modelled	8.2	19	PDB header: hydrolase Chain: A: PDB Molecule: ribonuclease h-related protein; PDBTitle: solution nmr structure of the apo form of a ribonuclease h2 domain of protein dsy1790 from <i>Desulfotobacterium hafnien</i> se,

						northeast structural genomics target dhr1a
55	c2e0cA	Alignment	not modelled	7.2	10	PDB header: oxidoreductase Chain: A: PDB Molecule: 409aa long hypothetical nadp-dependent isocitrate PDBTitle: crystal structure of isocitrate dehydrogenase from <i>sulfolobus tokodaii</i> 2 strain7 at 2.0 a resolution
56	c2jroA	Alignment	not modelled	7.0	12	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: solution nmr structure of so0334 from <i>shewanella oneidensis</i> . northeast2 structural genomics target sor75
57	d2ox6a1	Alignment	not modelled	7.0	21	Fold: lambda repressor-like DNA-binding domains Superfamily: lambda repressor-like DNA-binding domains Family: YdiL-like
58	c1qgeE	Alignment	not modelled	6.9	23	PDB header: hydrolase Chain: E: PDB Molecule: protein (triacylglycerol hydrolase); PDBTitle: new crystal form of <i>pseudomonas glumae</i> (formerly <i>chromobacterium</i> 2 viscosum atcc 6918) lipase
59	d1tgoa2	Alignment	not modelled	6.5	14	Fold: DNA/RNA polymerases Superfamily: DNA/RNA polymerases Family: DNA polymerase I
60	c2bblA	Alignment	not modelled	6.0	67	PDB header: viral protein Chain: A: PDB Molecule: genome linked protein vpg; PDBTitle: nmr structures of the peptide linked to the genome (vpg) of2 poliovirus in a stabilizing solvent
61	d1vtmp	Alignment	not modelled	5.9	20	Fold: Four-helical up-and-down bundle Superfamily: TMV-like viral coat proteins Family: TMV-like viral coat proteins
62	c3kmlB	Alignment	not modelled	5.8	33	PDB header: viral protein Chain: B: PDB Molecule: coat protein; PDBTitle: circular permutant of the tobacco mosaic virus
63	c3blxM	Alignment	not modelled	5.7	17	PDB header: oxidoreductase Chain: M: PDB Molecule: isocitrate dehydrogenase [nad] subunit 1; PDBTitle: yeast isocitrate dehydrogenase (apo form)
64	d2id1a1	Alignment	not modelled	5.7	3	Fold: Nucleotidyltransferase Superfamily: Nucleotidyltransferase Family: IojaP/YbeB-like
65	c3upsA	Alignment	not modelled	5.6	8	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: iojaP-like protein; PDBTitle: crystal structure of iojaP-like protein from <i>zymomonas mobilis</i>
66	d1wjoa	Alignment	not modelled	5.6	14	Fold: CH domain-like Superfamily: Calponin-homology domain, CH-domain Family: Calponin-homology domain, CH-domain
67	d1pb1a	Alignment	not modelled	5.5	9	Fold: Isocitrate/Isopropylmalate dehydrogenase-like Superfamily: Isocitrate/Isopropylmalate dehydrogenase-like Family: Dimeric isocitrate & isopropylmalate dehydrogenases
68	d1ei7a	Alignment	not modelled	5.5	31	Fold: Four-helical up-and-down bundle Superfamily: TMV-like viral coat proteins Family: TMV-like viral coat proteins
69	c2kygC	Alignment	not modelled	5.5	22	PDB header: protein binding Chain: C: PDB Molecule: protein cbfa2t1; PDBTitle: structure of the aml1-eto nervy domain - pka(riia) complex and its2 contribution to aml1-eto activity
70	d1wdia	Alignment	not modelled	5.3	13	Fold: QueA-like Superfamily: QueA-like Family: QueA-like
71	c1x0lB	Alignment	not modelled	5.2	14	PDB header: oxidoreductase Chain: B: PDB Molecule: homoisocitrate dehydrogenase; PDBTitle: crystal structure of tetrameric homoisocitrate dehydrogenase from an2 extreme thermophile, <i>thermus thermophilus</i>
72	c2zqeA	Alignment	not modelled	5.2	13	PDB header: dna binding protein Chain: A: PDB Molecule: mutS2 protein; PDBTitle: crystal structure of the smr domain of <i>thermus thermophilus</i> mutS2