























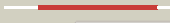
















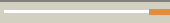

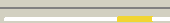
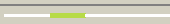
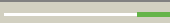




#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1zvva_	 Alignment		100.0	36	PDB header: isomerase Chain: A: PDB Molecule: topoisomerase iv subunit a; PDBTitle: structure of the full-length e. coli parc subunit
2	c2wl2B_	 Alignment		100.0	99	PDB header: isomerase Chain: B: PDB Molecule: dna gyrase subunit a; PDBTitle: crystal structure of n-terminal domain of gyra with the2 antibiotic simocyclinone d8
3	c2xcsD_	 Alignment		100.0	60	PDB header: isomerase Chain: D: PDB Molecule: dna gyrase subunit b, dna gyrase subunit a; PDBTitle: the 2.1a crystal structure of s. aureus gyrase complex with gsk2994232 and dna
4	c3ifza_	 Alignment		100.0	52	PDB header: isomerase Chain: A: PDB Molecule: dna gyrase subunit a; PDBTitle: crystal structure of the first part of the mycobacterium tuberculosis2 dna gyrase reaction core: the breakage and reunion domain at 2.7 a3 resolution
5	d1ab4a_	 Alignment		100.0	98	Fold: Type II DNA topoisomerase Superfamily: Type II DNA topoisomerase Family: Type II DNA topoisomerase
6	c2xcqA_	 Alignment		100.0	60	PDB header: isomerase Chain: A: PDB Molecule: dna gyrase subunit b, dna gyrase subunit a; PDBTitle: the 2.98a crystal structure of the catalytic core (b'a'2 region) of staphylococcus aureus dna gyrase
7	c3ilwA_	 Alignment		100.0	51	PDB header: isomerase Chain: A: PDB Molecule: dna gyrase subunit a; PDBTitle: structure of dna gyrase subunit a n-terminal domain
8	c2xkjE_	 Alignment		100.0	41	PDB header: isomerase Chain: E: PDB Molecule: topoisomerase iv; PDBTitle: crystal structure of catalytic core of a. baumannii topo iv2 (pare-parc fusion truncate)
9	c2inrA_	 Alignment		100.0	50	PDB header: isomerase Chain: A: PDB Molecule: dna topoisomerase 4 subunit a; PDBTitle: crystal structure of a 59 kda fragment of topoisomerase iv subunit a2 (gr1a) from staphylococcus aureus
10	c2novD_	 Alignment		100.0	47	PDB header: isomerase Chain: D: PDB Molecule: dna topoisomerase 4 subunit a; PDBTitle: breakage-reunion domain of s.pneumoniae topo iv: crystal2 structure of a gram-positive quinolone target
11	c3qx3B_	 Alignment		100.0	25	PDB header: isomerase/dna/isomerase inhibitor Chain: B: PDB Molecule: dna topoisomerase 2-beta; PDBTitle: human topoisomerase iibeta in complex with dna and etoposide

12	c1bjtA_		Alignment		100.0	21	PDB header: topoisomerase Chain: A: PDB Molecule: topoisomerase ii; PDBTitle: topoisomerase ii residues 409-1201
13	d1bjta_		Alignment		100.0	21	Fold: Type II DNA topoisomerase Superfamily: Type II DNA topoisomerase Family: Type II DNA topoisomerase
14	c3l6vA_		Alignment		100.0	59	PDB header: isomerase Chain: A: PDB Molecule: dna gyrase subunit a; PDBTitle: crystal structure of the xanthomonas campestris gyrase a c-2 terminal domain
15	d1wp5a_		Alignment		100.0	31	Fold: 6-bladed beta-propeller Superfamily: GyrA/ParC C-terminal domain-like Family: GyrA/ParC C-terminal domain-like
16	d1suua_		Alignment		100.0	28	Fold: 6-bladed beta-propeller Superfamily: GyrA/ParC C-terminal domain-like Family: GyrA/ParC C-terminal domain-like
17	c1zi0A_		Alignment		100.0	99	PDB header: isomerase, dna bindng protein Chain: A: PDB Molecule: dna gyrase subunit a; PDBTitle: a superhelical spiral in escherichia coli dna gyrase a c-2 terminal domain imparts unidirectional supercoiling bias
18	c3no0B_		Alignment		100.0	24	PDB header: isomerase Chain: B: PDB Molecule: dna gyrase subunit a; PDBTitle: aquifex aeolicus type iia topoisomerase c-terminal domain
19	c1zvtA_		Alignment		100.0	18	PDB header: isomerase Chain: A: PDB Molecule: topoisomerase iv subunit a; PDBTitle: structure of the e. coli parC c-terminal domain
20	c3ku8A_		Alignment		100.0	100	PDB header: toxin/isomerase Chain: A: PDB Molecule: dna gyrase subunit a; PDBTitle: ccdbvfi:gyra14ec
21	d1x75a1		Alignment	not modelled	100.0	94	Fold: Type II DNA topoisomerase Superfamily: Type II DNA topoisomerase Family: Type II DNA topoisomerase
22	c2oajA_		Alignment	not modelled	86.9	12	PDB header: endocytosis/exocytosis Chain: A: PDB Molecule: protein sni1; PDBTitle: crystal structure of sro7 from s. cerevisiae
23	c3dm0A_		Alignment	not modelled	73.6	15	PDB header: sugar binding protein,signaling protein Chain: A: PDB Molecule: maltose-binding periplasmic protein fused with PDBTitle: maltose binding protein fusion with rack1 from a. thaliana
24	c1t3jA_		Alignment	not modelled	72.3	25	PDB header: membrane protein Chain: A: PDB Molecule: mitofusin 1; PDBTitle: mitofusin domain hr2 v686m/i708m mutant
25	c2q6tB_		Alignment	not modelled	61.6	24	PDB header: hydrolase Chain: B: PDB Molecule: dnab replication fork helicase; PDBTitle: crystal structure of the thermus aquaticus dnab monomer
26	c3jroA_		Alignment	not modelled	58.2	13	PDB header: transport protein, structural protein Chain: A: PDB Molecule: fusion protein of protein transport protein sec13 PDBTitle: nup84-nup145c-sec13 edge element of the npc lattice
27	c1c9lA_		Alignment	not modelled	56.3	13	PDB header: endocytosis/exocytosis Chain: A: PDB Molecule: clathrin; PDBTitle: peptide-in-groove interactions link target proteins to the2 b-propeller of clathrin
28	d2g0da1		Alignment	not modelled	56.2	16	Fold: alpha/alpha toroid Superfamily: LanC-like Family: LanC-like

29	dljwea_	Alignment	not modelled	54.0	16	Fold: N-terminal domain of DnaB helicase Superfamily: N-terminal domain of DnaB helicase Family: N-terminal domain of DnaB helicase
30	c3fokH_	Alignment	not modelled	53.6	17	PDB header: structural genomics, unknown function Chain: H: PDB Molecule: uncharacterized protein cgl0159; PDBTitle: crystal structure of cgl0159 from corynebacterium2 glutamicum (brevibacterium flavum). northeast structural3 genomics target cgr115
31	c3a7pB_	Alignment	not modelled	53.5	15	PDB header: protein transport Chain: B: PDB Molecule: autophagy protein 16; PDBTitle: the crystal structure of saccharomyces cerevisiae atg16
32	c2vyeA_	Alignment	not modelled	50.0	20	PDB header: hydrolase Chain: A: PDB Molecule: replicative dna helicase; PDBTitle: crystal structure of the dna-ssdna complex
33	c3lssA_	Alignment	not modelled	48.2	14	PDB header: ligase Chain: A: PDB Molecule: seryl-trna synthetase; PDBTitle: trypanosoma brucei seryl-trna synthetase in complex with atp
34	d2v8qb1	Alignment	not modelled	47.9	22	Fold: AMPKBI-like Superfamily: AMPKBI-like Family: AMPKBI-like
35	c1q1hA_	Alignment	not modelled	40.7	28	PDB header: transcription Chain: A: PDB Molecule: transcription factor e; PDBTitle: an extended winged helix domain in general transcription2 factor e/iie alpha
36	d1q1ha_	Alignment	not modelled	40.7	28	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Transcription factor E/Ile-alpha, N-terminal domain
37	c3gndC_	Alignment	not modelled	38.8	14	PDB header: lyase Chain: C: PDB Molecule: aldolase lsrf; PDBTitle: crystal structure of e. coli lsrf in complex with ribulose-5-phosphate
38	d1b79a_	Alignment	not modelled	35.4	17	Fold: N-terminal domain of DnaB helicase Superfamily: N-terminal domain of DnaB helicase Family: N-terminal domain of DnaB helicase
39	c1dpuA_	Alignment	not modelled	35.3	36	PDB header: dna binding protein Chain: A: PDB Molecule: replication protein a (rpa32) c-terminal domain; PDBTitle: solution structure of the c-terminal domain of human rpa322 complexed with ung2(73-88)
40	d1dpuA_	Alignment	not modelled	35.3	36	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: C-terminal domain of RPA32
41	d2ayua1	Alignment	not modelled	34.1	15	Fold: NAP-like Superfamily: NAP-like Family: NAP-like
42	c2ayuA_	Alignment	not modelled	34.1	15	PDB header: chaperone Chain: A: PDB Molecule: nucleosome assembly protein; PDBTitle: the structure of nucleosome assembly protein suggests a mechanism for2 histone binding and shuttling
43	c2qjhH_	Alignment	not modelled	33.8	19	PDB header: lyase Chain: H: PDB Molecule: putative aldolase mj0400; PDBTitle: m. jannaschii adh synthase covalently bound to2 dihydroxyacetone phosphate
44	c3mkqA_	Alignment	not modelled	33.5	12	PDB header: transport:protein Chain: A: PDB Molecule: coatomer beta'-subunit; PDBTitle: crystal structure of yeast alpha/betaprime-cop subcomplex of the cop12 vesicular coat
45	c3a7mA_	Alignment	not modelled	29.6	13	PDB header: gene regulation, chaperone Chain: A: PDB Molecule: flagellar protein flit; PDBTitle: structure of flit, the flagellar type iii chaperone for flid
46	d2qrdb1	Alignment	not modelled	29.1	15	Fold: AMPKBI-like Superfamily: AMPKBI-like Family: AMPKBI-like
47	c2h47F_	Alignment	not modelled	28.6	10	PDB header: oxidoreductase/electron transport Chain: F: PDB Molecule: aromatic amine dehydrogenase; PDBTitle: crystal structure of an electron transfer complex between2 aromatic amine dehydrogenase and azurin from alcaligenes3 faecalis (form 1)
48	c2jesG_	Alignment	not modelled	28.4	12	PDB header: viral protein Chain: G: PDB Molecule: portal protein; PDBTitle: portal protein from bacteriophage spp1
49	c2b5nD_	Alignment	not modelled	28.0	12	PDB header: dna binding protein/protein binding Chain: D: PDB Molecule: damage-specific dna binding protein 1; PDBTitle: crystal structure of the ddb1 bpb domain
50	d2dloa1	Alignment	not modelled	27.5	71	Fold: Glucocorticoid receptor-like (DNA-binding domain) Superfamily: Glucocorticoid receptor-like (DNA-binding domain) Family: LIM domain
51	d1ivsa1	Alignment	not modelled	27.3	27	Fold: Long alpha-hairpin Superfamily: tRNA-binding arm Family: Valyl-tRNA synthetase (ValRS) C-terminal domain
52	c1ce0B_	Alignment	not modelled	27.2	31	PDB header: hiv-1 envelope protein Chain: B: PDB Molecule: protein (leucine zipper model h38-p1); PDBTitle: trimerization specificity in hiv-1 gp41: analysis with a2 gcn4 leucine zipper model
53	c2pqaB_	Alignment	not modelled	26.5	29	PDB header: replication Chain: B: PDB Molecule: replication protein a 14 kda subunit; PDBTitle: crystal structure of full-length human rpa 14/32 heterodimer
54	c3ushB_	Alignment	not modelled	26.5	23	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of the q2s0r5 protein from salinibacter ruber,2 northeast structural genomics consortium target srr207

55	d1k32a3	Alignment	not modelled	24.8	10	Fold: 7-bladed beta-propeller Superfamily: Tricorn protease domain 2 Family: Tricorn protease domain 2
56	d1iwpA	Alignment	not modelled	24.5	16	Fold: TIM beta/alpha-barrel Superfamily: Cobalamin (vitamin B12)-dependent enzymes Family: Diol dehydratase, alpha subunit
57	d1a06a	Alignment	not modelled	23.9	30	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: Protein kinases, catalytic subunit
58	c2p9mD	Alignment	not modelled	23.7	15	PDB header: structural genomics, unknown function Chain: D: PDB Molecule: hypothetical protein mj0922; PDBTitle: crystal structure of conserved hypothetical protein mj0922 from2 methanocaldococcus jannaschii dsm 2661
59	d2pi2e1	Alignment	not modelled	23.0	29	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Single strand DNA-binding domain, SSB
60	c3so4C	Alignment	not modelled	22.3	18	PDB header: transferase Chain: C: PDB Molecule: methionine-adenosyltransferase; PDBTitle: methionine-adenosyltransferase from entamoeba histolytica
61	c2zezC	Alignment	not modelled	21.9	41	PDB header: hydrolase Chain: C: PDB Molecule: s-layer associated multidomain endoglucanase; PDBTitle: family 16 carbohydrate binding module-2
62	c3ocmB	Alignment	not modelled	21.0	8	PDB header: membrane protein Chain: B: PDB Molecule: putative membrane protein; PDBTitle: the crystal structure of a domain from a possible membrane protein of2 bordetella parapertussis
63	c1ztaA	Alignment	not modelled	20.6	34	PDB header: dna-binding motif Chain: A: PDB Molecule: leucine zipper monomer; PDBTitle: the solution structure of a leucine-zipper motif peptide
64	c3ol2B	Alignment	not modelled	20.4	18	PDB header: signaling protein Chain: B: PDB Molecule: plexin-b1; PDBTitle: receptor-ligand structure of human semaphorin 4d with plexin b1.
65	d1mlda2	Alignment	not modelled	19.4	18	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
66	c3izcR	Alignment	not modelled	18.9	8	PDB header: ribosome Chain: R: PDB Molecule: 60s ribosomal protein rpl18 (l18e); PDBTitle: localization of the large subunit ribosomal proteins into a 6.1 a2 cryo-em map of saccharomyces cerevisiae translating 80s ribosome
67	c2dfdD	Alignment	not modelled	18.4	21	PDB header: oxidoreductase Chain: D: PDB Molecule: malate dehydrogenase; PDBTitle: crystal structure of human malate dehydrogenase type 2
68	d2f2ac1	Alignment	not modelled	18.1	16	Fold: Non-globular all-alpha subunits of globular proteins Superfamily: Glu-tRNAIn amidotransferase C subunit Family: Glu-tRNAIn amidotransferase C subunit
69	c3e5zA	Alignment	not modelled	18.0	11	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative gluconolactonase; PDBTitle: x-ray structure of the putative gluconolactonase in protein family2 pf08450. northeast structural genomics consortium target drr130.
70	c2hpcF	Alignment	not modelled	17.7	17	PDB header: blood clotting Chain: F: PDB Molecule: fibrinogen, gamma polypeptide; PDBTitle: crystal structure of fragment d from human fibrinogen complexed with2 gly-pro-arg-pro-amide.
71	c1u0iA	Alignment	not modelled	17.6	33	PDB header: de novo protein Chain: A: PDB Molecule: iaal-e3; PDBTitle: iaal-e3/k3 heterodimer
72	c2lmiA	Alignment	not modelled	17.5	13	PDB header: rna binding protein Chain: A: PDB Molecule: g-rich sequence factor 1; PDBTitle: nmr structure of the protein bc040485 from homo sapiens
73	c2xzrA	Alignment	not modelled	17.1	17	PDB header: cell adhesion Chain: A: PDB Molecule: immunoglobulin-binding protein eibd; PDBTitle: escherichia coli immunoglobulin-binding protein eibd 391-438 fused2 to gcn4 adaptors
74	c3czoD	Alignment	not modelled	17.0	24	PDB header: lyase Chain: D: PDB Molecule: histidine ammonia-lyase; PDBTitle: crystal structure of double mutant phenylalanine ammonia-2 lyase from anabaena variabilis
75	c2a5wC	Alignment	not modelled	16.6	19	PDB header: oxidoreductase Chain: C: PDB Molecule: sulfite reductase, desulfovibrin-type subunit gamma PDBTitle: crystal structure of the oxidized gamma-subunit of the dissimilatory2 sulfite reductase (dsrC) from archaeoglobus fulgidus
76	c3kpbA	Alignment	not modelled	16.5	17	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized protein mj0100; PDBTitle: crystal structure of the cbs domain pair of protein mj01002 in complex with 5-methylthioadenosine and s-adenosyl-l-3 methionine.
77	c1mldA	Alignment	not modelled	16.4	18	PDB header: oxidoreductase(nad(a)-choh(d)) Chain: A: PDB Molecule: malate dehydrogenase; PDBTitle: refined structure of mitochondrial malate dehydrogenase2 from porcine heart and the consensus structure for3 dicarboxylic acid oxidoreductases
78	c2jimH	Alignment	not modelled	16.1	22	PDB header: transferase Chain: H: PDB Molecule: glycosyl transferase, group 1 family protein; PDBTitle: crystal structure of a family gt4 glycosyltransferase from2 bacillus anthracis orf ba1558.
79	c2pwzG	Alignment	not modelled	15.8	18	PDB header: oxidoreductase Chain: G: PDB Molecule: malate dehydrogenase; PDBTitle: crystal structure of the apo form of e.coli malate dehydrogenase

80	c2pfiA	Alignment	not modelled	15.7	12	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
81	d1y5ha3	Alignment	not modelled	15.6	3	Fold: CBS-domain pair Superfamily: CBS-domain pair Family: CBS-domain pair
82	c2oszA	Alignment	not modelled	15.4	22	PDB header: structural protein Chain: A: PDB Molecule: nucleoporin p58/p45; PDBTitle: structure of nup58/45 suggests flexible nuclear pore diameter by2 intermolecular sliding
83	c1yx3A	Alignment	not modelled	15.2	25	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein dsrC; PDBTitle: nmr structure of allochromatium vinosum dsrC: northeast2 structural genomics consortium target op4
84	c2v8kA	Alignment	not modelled	15.0	35	PDB header: lyase Chain: A: PDB Molecule: pectate lyase; PDBTitle: structure of a family 2 pectate lyase in complex with2 trigalacturonic acid
85	c2r60A	Alignment	not modelled	14.8	24	PDB header: transferase Chain: A: PDB Molecule: glycosyl transferase, group 1; PDBTitle: structure of apo sucrose phosphate synthase (sps) of2 halothermothrix orenii
86	c3ltjA	Alignment	not modelled	14.6	21	PDB header: protein binding Chain: A: PDB Molecule: alpharep-4; PDBTitle: structure of a new family of artificial alpha helicoidal repeat2 proteins (alpha-rep) based on thermostable heat-like repeats
87	c3m9bK	Alignment	not modelled	14.5	20	PDB header: chaperone Chain: K: PDB Molecule: proteasome-associated atpase; PDBTitle: crystal structure of the amino terminal coiled coil domain and the2 inter domain of the mycobacterium tuberculosis proteasomal atpase mpa
88	c3somO	Alignment	not modelled	14.5	23	PDB header: oxidoreductase Chain: O: PDB Molecule: methylmalonic aciduria and homocystinuria type c protein; PDBTitle: crystal structure of human mmachc
89	c3ue3A	Alignment	not modelled	14.3	23	PDB header: transferase Chain: A: PDB Molecule: septum formation, penicillin binding protein 3, PDBTitle: crystal structure of acinetobacter baumannii pbp3
90	c3idwA	Alignment	not modelled	13.9	20	PDB header: endocytosis Chain: A: PDB Molecule: actin cytoskeleton-regulatory complex protein sla1; PDBTitle: crystal structure of sla1 homology domain 2
91	c3l3lB	Alignment	not modelled	13.8	10	PDB header: hydrolase Chain: B: PDB Molecule: probable manganase-dependent inorganic PDBTitle: crystal structure of the cbs and drtg domains of the2 regulatory region of clostridium perfringens3 pyrophosphatase complexed with the inhibitor, amp
92	c2d4zB	Alignment	not modelled	13.8	21	PDB header: transport protein Chain: B: PDB Molecule: chloride channel protein; PDBTitle: crystal structure of the cytoplasmic domain of the chloride channel2 clc-0
93	c2qh1B	Alignment	not modelled	13.7	18	PDB header: unknown function Chain: B: PDB Molecule: hypothetical protein ta0289; PDBTitle: structure of ta289, a cbs-rubredoxin-like protein, in its fe+2-bound2 state
94	d1rp3a2	Alignment	not modelled	13.4	13	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Sigma3 and sigma4 domains of RNA polymerase sigma factors Family: Sigma4 domain
95	d1o50a3	Alignment	not modelled	13.2	15	Fold: CBS-domain pair Superfamily: CBS-domain pair Family: CBS-domain pair
96	d1wi9a	Alignment	not modelled	12.9	19	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: PCI domain (PINT motif)
97	c3kfuj	Alignment	not modelled	12.9	26	PDB header: ligase/rna Chain: J: PDB Molecule: glutamyl-trna(gln) amidotransferase subunit c; PDBTitle: crystal structure of the transamidosome
98	d1n0ua3	Alignment	not modelled	12.8	26	Fold: Ribosomal protein S5 domain 2-like Superfamily: Ribosomal protein S5 domain 2-like Family: Translational machinery components
99	d2ca1a1	Alignment	not modelled	12.7	21	Fold: Nucleocapsid protein dimerization domain Superfamily: Nucleocapsid protein dimerization domain Family: Coronavirus nucleocapsid protein