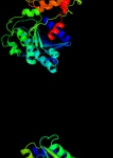
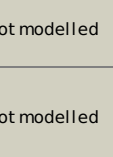


Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1l5wa_	 Alignment		100.0	100	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Oligosaccharide phosphorylase
2	c3ddsB_	 Alignment		100.0	44	PDB header: transferase Chain: B: PDB Molecule: glycogen phosphorylase, liver form; PDBTitle: crystal structure of glycogen phosphorylase complexed with an2 anthranilimide based inhibitor gsk261
3	d2atia1	 Alignment		100.0	44	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Oligosaccharide phosphorylase
4	d2gj4a1	 Alignment		100.0	44	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Oligosaccharide phosphorylase
5	c2c4mA_	 Alignment		100.0	45	PDB header: transferase Chain: A: PDB Molecule: glycogen phosphorylase; PDBTitle: starch phosphorylase: structural studies explain oxanion-2 dependent kinetic stability and regulatory control.
6	dlygpa_	 Alignment		100.0	43	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Oligosaccharide phosphorylase
7	c3o3cD_	 Alignment		99.5	13	PDB header: transferase Chain: D: PDB Molecule: glycogen [starch] synthase isoform 2; PDBTitle: glycogen synthase basal state udp complex
8	c3nb0A_	 Alignment		99.4	16	PDB header: transferase Chain: A: PDB Molecule: glycogen [starch] synthase isoform 2; PDBTitle: glucose-6-phosphate activated form of yeast glycogen synthase
9	d1rzua_	 Alignment		98.8	16	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Glycosyl transferases group 1
10	c2x6rA_	 Alignment		98.8	18	PDB header: isomerase Chain: A: PDB Molecule: trehalose-synthase tret; PDBTitle: crystal structure of trehalose synthase tret from p.2 horikoshi produced by soaking in trehalose
11	c1uquB_	 Alignment		98.7	13	PDB header: synthase Chain: B: PDB Molecule: alpha, alpha-trehalose-phosphate synthase; PDBTitle: trehalose-6-phosphate from e. coli bound with udp-glucose.

12	d1uqta_	Alignment		98.6	18	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Trehalose-6-phosphate synthase, OtsA
13	c2xmpB_	Alignment		98.6	17	PDB header: sugar binding protein Chain: B: PDB Molecule: trehalose-synthase tret; PDBTitle: crystal structure of trehalose synthase tret mutant e326a2 from p.horishiki in complex with udp
14	c2qzsA_	Alignment		98.4	18	PDB header: transferase Chain: A: PDB Molecule: glycogen synthase; PDBTitle: crystal structure of wild-type e.coli gs in complex with adp2 and glucose(wtgsb)
15	d2bisa1	Alignment		98.1	19	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Glycosyl transferases group 1
16	c2r60A_	Alignment		98.1	20	PDB header: transferase Chain: A: PDB Molecule: glycosyl transferase, group 1; PDBTitle: structure of apo sucrose phosphate synthase (sps) of2 halothermothrix orenii
17	c3s29C_	Alignment		97.9	14	PDB header: transferase Chain: C: PDB Molecule: sucrose synthase 1; PDBTitle: the crystal structure of sucrose synthase-1 from arabidopsis thaliana2 and its functional implications.
18	c3c4vB_	Alignment		97.8	23	PDB header: transferase Chain: B: PDB Molecule: predicted glycosyltransferases; PDBTitle: structure of the retaining glycosyltransferase msha:the2 first step in mycothiol biosynthesis. organism:3 corynebacterium glutamicum : complex with udp and 1l-ins-1-4 p.
19	c3oy2A_	Alignment		97.7	13	PDB header: viral protein,transferase Chain: A: PDB Molecule: glycosyltransferase b736l; PDBTitle: crystal structure of a putative glycosyltransferase from paramecium2 bursaria chlorella virus ny2a
20	d2f9fa1	Alignment		96.8	14	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Glycosyl transferases group 1
21	d2bfwa1	Alignment	not modelled	96.8	19	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Glycosyl transferases group 1
22	c3okaA_	Alignment	not modelled	96.7	22	PDB header: transferase Chain: A: PDB Molecule: gdp-mannose-dependent alpha-(1-6)-phosphatidylinositol PDBTitle: crystal structure of corynebacterium glutamicum pimb' in complex with2 gdp-man (triclinic crystal form)
23	c2gejA_	Alignment	not modelled	96.6	17	PDB header: transferase Chain: A: PDB Molecule: phosphatidylinositol mannosyltransferase (pima); PDBTitle: crystal structure of phosphatidylinositol mannosyltransferase (pima)2 from mycobacterium smegmatis in complex with gdp-man
24	c2jjmH_	Alignment	not modelled	96.6	19	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.
25	d2iw1a1	Alignment	not modelled	96.1	16	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Glycosyl transferases group 1
26	c2x0dA_	Alignment	not modelled	95.3	13	PDB header: transferase Chain: A: PDB Molecule: wsaf; PDBTitle: apo structure of wsaf
27	c3ot5D_	Alignment	not modelled	91.7	13	PDB header: isomerase Chain: D: PDB Molecule: udp-n-acetylglucosamine 2-epimerase; PDBTitle: 2.2 angstrom resolution crystal structure of putative udp-n-2 acetylglucosamine 2-epimerase from listeria monocytogenes PDB header: transferase

28	c2vsnB_	Alignment	not modelled	89.7	20	Chain: B: PDB Molecule: xcogt; PDBTitle: structure and topological arrangement of an o-glcnac2 transferase homolog: insight into molecular control of3 intracellular glycosylation
29	d1f6da_	Alignment	not modelled	86.5	18	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDP-N-acetylglucosamine 2-epimerase
30	c3rhzb_	Alignment	not modelled	86.0	13	PDB header: transferase Chain: B: PDB Molecule: nucleotide sugar synthetase-like protein; PDBTitle: structure and functional analysis of a new subfamily of2 glycosyltransferases required for glycosylation of serine-rich3 streptococcal adhesions
31	c3pe3D_	Alignment	not modelled	78.7	13	PDB header: transferase Chain: D: PDB Molecule: udp-n-acetylglucosamine--peptide n- PDBTitle: structure of human o-glcnac transferase and its complex with a peptide2 substrate
32	c3dzcA_	Alignment	not modelled	70.9	14	PDB header: isomerase Chain: A: PDB Molecule: udp-n-acetylglucosamine 2-epimerase; PDBTitle: 2.35 angstrom resolution structure of wecb (vc0917), a udp-n-2 acetylglucosamine 2-epimerase from vibrio cholerae.
33	c3r6mD_	Alignment	not modelled	57.3	20	PDB header: hydrolase Chain: D: PDB Molecule: yeaz, resuscitation promoting factor; PDBTitle: crystal structure of vibrio parahaemolyticus yeaz
34	c1okjB_	Alignment	not modelled	54.5	21	PDB header: hydrolase Chain: B: PDB Molecule: hypothetical protease yeaz; PDBTitle: crystal structure of the essential e. coli yeaz2 protein by mad method using the gadolinium complex3 "dotma"
35	d1w36c1	Alignment	not modelled	51.3	17	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Tandem AAA-ATPase domain
36	c3qhpB_	Alignment	not modelled	46.9	11	PDB header: transferase Chain: B: PDB Molecule: type 1 capsular polysaccharide biosynthesis protein j PDBTitle: crystal structure of the catalytic domain of cholesterol-alpha-2 glucosyltransferase from helicobacter pylori
37	d1x99a_	Alignment	not modelled	33.5	33	Fold: Cytolysin/lectin Superfamily: Cytolysin/lectin Family: Fungal fruit body lectin
38	d1y2ta_	Alignment	not modelled	32.8	33	Fold: Cytolysin/lectin Superfamily: Cytolysin/lectin Family: Fungal fruit body lectin
39	d1v4va_	Alignment	not modelled	32.1	12	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDP-N-acetylglucosamine 2-epimerase
40	c1yz4A_	Alignment	not modelled	31.7	11	PDB header: hydrolase Chain: A: PDB Molecule: dual specificity phosphatase-like 15 isoform a; PDBTitle: crystal structure of dusp15
41	c2z8tX_	Alignment	not modelled	31.3	13	PDB header: hydrolase Chain: X: PDB Molecule: protein-glutaminase; PDBTitle: crystal structure of protein-glutaminase of c.proteolyticum2 strain 9670
42	c2ofeA_	Alignment	not modelled	27.5	33	PDB header: sugar binding protein Chain: A: PDB Molecule: sclerotium rolfsii lectin; PDBTitle: the crystal structure of sclerotium rolfsii lectin in complex with n-2 acetyl-d-glucosamine
43	d1kx5b_	Alignment	not modelled	26.9	14	Fold: Histone-fold Superfamily: Histone-fold Family: Nucleosome core histones
44	c2iv3B_	Alignment	not modelled	26.0	14	PDB header: transferase Chain: B: PDB Molecule: glycosyltransferase; PDBTitle: crystal structure of avigt4, a glycosyltransferase involved2 in avilamycin a biosynthesis
45	c3g8qA_	Alignment	not modelled	25.0	42	PDB header: rna binding protein Chain: A: PDB Molecule: predicted rna-binding protein, contains thump PDBTitle: a cytidine deaminase edits c-to-u in transfer rnas in2 archaea
46	c2g6zB_	Alignment	not modelled	23.2	13	PDB header: hydrolase Chain: B: PDB Molecule: dual specificity protein phosphatase 5; PDBTitle: crystal structure of human dusp5
47	d2f8la1	Alignment	not modelled	21.5	30	Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: N-6 DNA Methylase-like
48	c1zhcA_	Alignment	not modelled	20.9	14	PDB header: unknown function Chain: A: PDB Molecule: hypothetical protein hp1242; PDBTitle: solution structure of hp1242 from helicobacter pylori
49	c2npiB_	Alignment	not modelled	20.9	16	PDB header: transcription Chain: B: PDB Molecule: protein clp1; PDBTitle: clp1-atp-pcf11 complex
50	c2oudA_	Alignment	not modelled	20.6	22	PDB header: hydrolase Chain: A: PDB Molecule: dual specificity protein phosphatase 10; PDBTitle: crystal structure of the catalytic domain of human mkp5
51	d1id3b_	Alignment	not modelled	20.1	14	Fold: Histone-fold Superfamily: Histone-fold Family: Nucleosome core histones
52	c3pn1A_	Alignment	not modelled	18.6	19	PDB header: ligase/ligase inhibitor Chain: A: PDB Molecule: dna ligase; PDBTitle: novel bacterial nad+-dependent dna ligase inhibitors with broad2 spectrum potency and antibacterial efficacy in vivo
53	c1keeH_	Alignment	not modelled	17.0	17	PDB header: ligase Chain: H: PDB Molecule: carbamoyl-phosphate synthetase small chain;

					PDBTitle: inactivation of the amidotransferase activity of carbamoyl phosphate2 synthetase by the antibiotic acivicin
54	c3se4B_	Alignment	not modelled	16.8	29 PDB header: immune system receptor Chain: B: PDB Molecule: interferon omega-1; PDBTitle: human ifnw-ifnar ternary complex
55	c1r30A_	Alignment	not modelled	16.3	9 PDB header: transferase Chain: A: PDB Molecule: biotin synthase; PDBTitle: the crystal structure of biotin synthase, an s-2 adenosylmethionine-dependent radical enzyme
56	d1r30a_	Alignment	not modelled	16.3	9 Fold: TIM beta/alpha-barrel Superfamily: Radical SAM enzymes Family: Biotin synthase
57	d1bh9b_	Alignment	not modelled	16.1	18 Fold: Histone-fold Superfamily: Histone-fold Family: TBP-associated factors, TAFs
58	d1yb3a1_	Alignment	not modelled	16.0	21 Fold: YktB/PF0168-like Superfamily: YktB/PF0168-like Family: PF0168-like
59	c2a6aB_	Alignment	not modelled	15.7	12 PDB header: hydrolase Chain: B: PDB Molecule: hypothetical protein tm0874; PDBTitle: crystal structure of glycoprotein endopeptidase (tm0874) from2 thermotoga maritima at 2.50 a resolution
60	c1wrmA_	Alignment	not modelled	15.5	13 PDB header: hydrolase Chain: A: PDB Molecule: dual specificity phosphatase 22; PDBTitle: crystal structure of jsp-1
61	c3emuA_	Alignment	not modelled	14.8	19 PDB header: hydrolase Chain: A: PDB Molecule: leucine rich repeat and phosphatase domain PDBTitle: crystal structure of a leucine rich repeat and phosphatase2 domain containing protein from entamoeba histolytica
62	d1m3ga_	Alignment	not modelled	14.8	14 Fold: (Phosphotyrosine protein) phosphatases II Superfamily: (Phosphotyrosine protein) phosphatases II Family: Dual specificity phosphatase-like
63	c3rggA_	Alignment	not modelled	14.8	16 PDB header: hydrolase Chain: A: PDB Molecule: protein-tyrosine phosphatase mitochondrial 1; PDBTitle: crystal structure of ptpmt1 in complex with pi(5)p
64	c2hcmA_	Alignment	not modelled	14.5	13 PDB header: hydrolase Chain: A: PDB Molecule: dual specificity protein phosphatase; PDBTitle: crystal structure of mouse putative dual specificity phosphatase2 complexed with zinc tungstate, new york structural genomics3 consortium
65	c2e0tA_	Alignment	not modelled	14.3	14 PDB header: hydrolase Chain: A: PDB Molecule: dual specificity phosphatase 26; PDBTitle: crystal structure of catalytic domain of dual specificity phosphatase2 26, ms0830 from homo sapiens
66	d1o58a_	Alignment	not modelled	14.2	18 Fold: Tryptophan synthase beta subunit-like PLP-dependent enzymes Superfamily: Tryptophan synthase beta subunit-like PLP-dependent enzymes Family: Tryptophan synthase beta subunit-like PLP-dependent enzymes
67	d2enda_	Alignment	not modelled	13.9	18 Fold: T4 endonuclease V Superfamily: T4 endonuclease V Family: T4 endonuclease V
68	d2huec1_	Alignment	not modelled	13.9	14 Fold: Histone-fold Superfamily: Histone-fold Family: Nucleosome core histones
69	c1yhuA_	Alignment	not modelled	13.3	17 PDB header: oxygen storage/transport Chain: A: PDB Molecule: hemoglobin a1 chain; PDBTitle: crystal structure of riftia pachyptila c1 hemoglobin reveals novel2 assembly of 24 subunits.
70	c3piwA_	Alignment	not modelled	12.1	24 PDB header: cytokine Chain: A: PDB Molecule: type i interferon 2; PDBTitle: zebrafish interferon 2
71	d2csua3_	Alignment	not modelled	12.1	35 Fold: Flavodoxin-like Superfamily: Succinyl-CoA synthetase domains Family: Succinyl-CoA synthetase domains
72	c1eysC_	Alignment	not modelled	11.2	22 PDB header: electron transport Chain: C: PDB Molecule: photosynthetic reaction center; PDBTitle: crystal structure of photosynthetic reaction center from a2 thermophilic bacterium, thermochromatium tepidum
73	d1eysc_	Alignment	not modelled	11.2	22 Fold: Multiheme cytochromes Superfamily: Multiheme cytochromes Family: Photosynthetic reaction centre (cytochrome subunit)
74	c3bacA_	Alignment	not modelled	11.1	19 PDB header: ligase Chain: A: PDB Molecule: dna ligase; PDBTitle: structural basis for the inhibition of bacterial nad+2 dependent dna ligase
75	d3cjrbl_	Alignment	not modelled	11.0	22 Fold: DNA/RNA-binding 3-helical bundle Superfamily: Ribosomal protein L11, C-terminal domain Family: Ribosomal protein L11, C-terminal domain
76	d1v9pa3_	Alignment	not modelled	10.6	16 Fold: ATP-grasp Superfamily: DNA ligase/mRNA capping enzyme, catalytic domain Family: Adenylation domain of NAD+-dependent DNA ligase
77	d3etja2_	Alignment	not modelled	10.5	38 Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: BC N-terminal domain-like
78	c2bpsA_	Alignment	not modelled	10.3	22 PDB header: ubiquitin Chain: A: PDB Molecule: yukd protein; PDBTitle: ubiquitin-like protein yukd of bacillus subtilis

79	d1ta8a_	Alignment	not modelled	10.1	26	Fold: ATP-grasp Superfamily: DNA ligase/mRNA capping enzyme, catalytic domain Family: Adenylation domain of NAD ⁺ -dependent DNA ligase
80	d1vhra_	Alignment	not modelled	10.1	19	Fold: (Phosphotyrosine protein) phosphatases II Superfamily: (Phosphotyrosine protein) phosphatases II Family: Dual specificity phosphatase-like
81	c3f4yF_	Alignment	not modelled	10.0	64	PDB header: viral protein Chain: F: PDB Molecule: mutant peptide derived from hiv gp41 chr domain; PDBTitle: hiv gp41 six-helix bundle containing a mutant chr alpha-2 peptide sequence
82	d1b5la_	Alignment	not modelled	9.5	29	Fold: 4-helical cytokines Superfamily: 4-helical cytokines Family: Interferons/interleukin-10 (IL-10)
83	c1hfeT_	Alignment	not modelled	9.5	31	PDB header: hydrogenase Chain: T: PDB Molecule: protein (fe-only hydrogenase (e.c.1.18.99.1) PDBTitle: 1.6 a resolution structure of the fe-only hydrogenase from2 desulfovibrio desulfuricans
84	d1hfes_	Alignment	not modelled	9.5	31	Fold: Non-globular all-alpha subunits of globular proteins Superfamily: Fe-only hydrogenase smaller subunit Family: Fe-only hydrogenase smaller subunit
85	d1hbna2	Alignment	not modelled	9.3	30	Fold: Ferredoxin-like Superfamily: Methyl-coenzyme M reductase subunits Family: Methyl-coenzyme M reductase alpha and beta chain N-terminal domain
86	d1qcsa1	Alignment	not modelled	9.0	13	Fold: Double psi beta-barrel Superfamily: ADC-like Family: Cdc48 N-terminal domain-like
87	d1u3da1	Alignment	not modelled	8.9	21	Fold: Cryptochrome/photolyase FAD-binding domain Superfamily: Cryptochrome/photolyase FAD-binding domain Family: Cryptochrome/photolyase FAD-binding domain
88	d1o82a_	Alignment	not modelled	8.6	70	Fold: Saposin-like Superfamily: Bacteriocin AS-48 Family: Bacteriocin AS-48
89	c2imgA_	Alignment	not modelled	8.6	16	PDB header: hydrolase Chain: A: PDB Molecule: dual specificity protein phosphatase 23; PDBTitle: crystal structure of dual specificity protein phosphatase2 23 from homo sapiens in complex with ligand malate ion
90	c3bdkB_	Alignment	not modelled	8.6	12	PDB header: lyase Chain: B: PDB Molecule: d-mannonate dehydratase; PDBTitle: crystal structure of streptococcus suis mannonate2 dehydratase complexed with substrate analogue
91	d1dila_	Alignment	not modelled	8.5	13	Fold: Terpenoid synthases Superfamily: Terpenoid synthases Family: Aristolochene/pentalenene synthase
92	d1pq4a_	Alignment	not modelled	8.5	18	Fold: Chelatase-like Superfamily: "Helical backbone" metal receptor Family: TroA-like
93	d2ipqx1	Alignment	not modelled	8.4	14	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: STY4665 C-terminal domain-like
94	c1yl7F_	Alignment	not modelled	8.4	23	PDB header: oxidoreductase Chain: F: PDB Molecule: dihydrodipicolinate reductase; PDBTitle: the crystal structure of mycobacterium tuberculosis2 dihydrodipicolinate reductase (rv2773c) in complex with nadh (crystal3 form c)
95	d2b0ja2	Alignment	not modelled	8.4	15	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
96	d3eeqa1	Alignment	not modelled	8.2	2	Fold: CobE/GbiG C-terminal domain-like Superfamily: CobE/GbiG C-terminal domain-like Family: CobE/GbiG C-terminal domain-like
97	c2owoA_	Alignment	not modelled	8.2	19	PDB header: ligase/dna Chain: A: PDB Molecule: dna ligase; PDBTitle: last stop on the road to repair: structure of e.coli dna ligase bound2 to nicked dna-adenylate
98	c2ktlA_	Alignment	not modelled	8.2	21	PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: structure of c-terminal domain from mttyrs of a. nidulans
99	c2diiA_	Alignment	not modelled	8.1	20	PDB header: transcription Chain: A: PDB Molecule: tfiih basal transcription factor complex p62 PDBTitle: solution structure of the bsd domain of human tfiih basal2 transcription factor complex p62 subunit