






























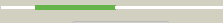


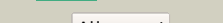











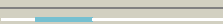

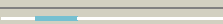

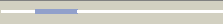


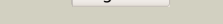

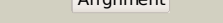


#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1xhbA_	 Alignment		100.0	18	PDB header: transferase Chain: A: PDB Molecule: polypeptide n-acetylgalactosaminyltransferase 1; PDBTitle: the crystal structure of udp-galnac: polypeptide alpha-n-2 acetylgalactosaminyltransferase-t1
2	d1xhba2	 Alignment		100.0	18	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Polypeptide N-acetylgalactosaminyltransferase 1, N-terminal domain
3	c3f1yC_	 Alignment		100.0	14	PDB header: transferase Chain: C: PDB Molecule: mannosyl-3-phosphoglycerate synthase; PDBTitle: mannosyl-3-phosphoglycerate synthase from rubrobacter xylanophilus
4	c2ffuA_	 Alignment		100.0	17	PDB header: transferase Chain: A: PDB Molecule: polypeptide n-acetylgalactosaminyltransferase 2; PDBTitle: crystal structure of human ppgalnact-2 complexed with udp2 and ea2
5	c2d7iA_	 Alignment		100.0	18	PDB header: transferase Chain: A: PDB Molecule: polypeptide n-acetylgalactosaminyltransferase 10; PDBTitle: crsytal structure of pp-galnac-t10 with udp, galnac and mn2+
6	c3ckvA_	 Alignment		100.0	16	PDB header: unknown function Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of a mycobacterial protein
7	c2z86D_	 Alignment		100.0	15	PDB header: transferase Chain: D: PDB Molecule: chondroitin synthase; PDBTitle: crystal structure of chondroitin polymerase from2 escherichia coli strain k4 (k4cp) complexed with udp-glucua3 and udp
8	c3bcvA_	 Alignment		100.0	18	PDB header: transferase Chain: A: PDB Molecule: putative glycosyltransferase protein; PDBTitle: crystal structure of a putative glycosyltransferase from bacteroides2 fragilis
9	d1omza_	 Alignment		99.9	10	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Exostosin
10	c1omxB_	 Alignment		99.9	10	PDB header: transferase Chain: B: PDB Molecule: alpha-1,4-n-acetylhexosaminyltransferase extl2; PDBTitle: crystal structure of mouse alpha-1,4-n-2 acetylhexosaminyltransferase (extl2)
11	d1qg8a_	 Alignment		99.9	12	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Spore coat polysaccharide biosynthesis protein SpsA

12	d2bo4a1	Alignment		99.8	15	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: MGS-like
13	c2qgiA	Alignment		99.7	16	PDB header: transferase Chain: A: PDB Molecule: atp synthase subunits region orf 6; PDBTitle: the udp complex structure of the sixth gene product of the f1-atpase2 operon of rhodobacter blasticus
14	d1pzta	Alignment		98.9	15	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: beta 1,4 galactosyltransferase (b4GalT1)
15	c3lw6A	Alignment		98.4	13	PDB header: transferase Chain: A: PDB Molecule: beta-4-galactosyltransferase 7; PDBTitle: crystal structure of drosophila beta1,4-galactosyltransferase-7
16	d1fo8a	Alignment		98.3	10	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: N-acetylglucosaminyltransferase I
17	c2wvmA	Alignment		98.2	17	PDB header: transferase Chain: A: PDB Molecule: mannosyl-3-phosphoglycerate synthase; PDBTitle: h309a mutant of mannosyl-3-phosphoglycerate synthase from2 thermus thermophilus hb27 in complex with3 gdp-alpha-d-mannose and mg(ii)
18	c2zu8A	Alignment		98.1	16	PDB header: transferase Chain: A: PDB Molecule: mannosyl-3-phosphoglycerate synthase; PDBTitle: crystal structure of mannosyl-3-phosphoglycerate synthase2 from pyrococcus horikoshii
19	c2d0jD	Alignment		97.0	14	PDB header: transferase Chain: D: PDB Molecule: galactosylgalactosylxylosylprotein 3-beta- PDBTitle: crystal structure of human glcat-s apo form
20	d1v82a	Alignment		96.7	15	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: 1,3-glucuronyltransferase
21	d3cu0a1	Alignment	not modelled	95.9	16	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: 1,3-glucuronyltransferase
22	d1vh3a	Alignment	not modelled	95.0	10	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Cytidilyltransferase
23	c1w57A	Alignment	not modelled	94.3	8	PDB header: transferase Chain: A: PDB Molecule: ispd/ispf bifunctional enzyme; PDBTitle: structure of the bifunctional ispdf from campylobacter2 jejuni containing zn
24	c2wawA	Alignment	not modelled	94.1	14	PDB header: unknown function Chain: A: PDB Molecule: moba relate protein; PDBTitle: crystal structure of mycobacterium tuberculosis rv0371c2 homolog from mycobacterium sp. strain jc1
25	c2px7A	Alignment	not modelled	93.6	13	PDB header: transferase Chain: A: PDB Molecule: 2-c-methyl-d-erythritol 4-phosphate PDBTitle: crystal structure of 2-c-methyl-d-erythritol 4-phosphate2 cytidilyltransferase from thermus thermophilus hb8
26	d1w55a1	Alignment	not modelled	92.7	8	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Cytidilyltransferase
27	c3ztb	Alignment	not modelled	92.6	14	PDB header: transferase Chain: B: PDB Molecule: glycosyl transferase family 8; PDBTitle: the structure of a protein in glycosyl transferase family 8 from2 anaerococcus prevotii.
28	c3d5nB	Alignment	not modelled	88.5	15	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: q97w15_sulso; PDBTitle: crystal structure of the q97w15_sulso protein from2 sulfolobus solfataricus. nesg target ssr125.
						Fold: Nucleotide-diphospho-sugar transferases

29	dlqwja_	Alignment	not modelled	86.5	7	Superfamily: Nucleotide-diphospho-sugar transferases Family: Cytidylyltransferase
30	dli52a_	Alignment	not modelled	84.1	12	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Cytidylyltransferase
31	c3okrA_	Alignment	not modelled	82.6	15	PDB header: transferase Chain: A: PDB Molecule: 2-c-methyl-d-erythritol 4-phosphate cytidylyltransferase; PDBTitle: structure of mtb apo 2-c-methyl-d-erythritol 4-phosphate2 cytidyltransferase (ispd)
32	dlw77a1	Alignment	not modelled	79.8	10	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Cytidylyltransferase
33	dlvwva_	Alignment	not modelled	79.7	13	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: glucose-1-phosphate thymidylyltransferase
34	c2j0bA_	Alignment	not modelled	79.0	14	PDB header: transferase Chain: A: PDB Molecule: beta-1,3-n-acetylglucosaminyltransferase manic fringe; PDBTitle: structure of the catalytic domain of mouse manic fringe in2 complex with udp and manganese
35	dlfxoa_	Alignment	not modelled	77.3	16	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: glucose-1-phosphate thymidylyltransferase
36	c2xwlB_	Alignment	not modelled	73.0	19	PDB header: transferase Chain: B: PDB Molecule: 2-c-methyl-d-erythritol 4-phosphate cytidylyltransferase; PDBTitle: crystal structure of ispd from mycobacterium smegmatis in complex2 with ctp and mg
37	c2gamA_	Alignment	not modelled	71.3	13	PDB header: transferase Chain: A: PDB Molecule: beta-1,6-n-acetylglucosaminyltransferase; PDBTitle: x-ray crystal structure of murine leukocyte-type core 2 b1,2 6-n-acetylglucosaminyltransferase (c2gnt-l) in complex3 with galb1,3galnac
38	dlmc3a_	Alignment	not modelled	69.7	11	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: glucose-1-phosphate thymidylyltransferase
39	dliina_	Alignment	not modelled	66.5	12	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: glucose-1-phosphate thymidylyltransferase
40	d2cz4a1	Alignment	not modelled	66.5	26	Fold: Ferredoxin-like Superfamily: GlnB-like Family: Prokaryotic signal transducing protein
41	dlvpaa_	Alignment	not modelled	65.6	5	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Cytidylyltransferase
42	dlga8a_	Alignment	not modelled	63.4	16	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Galactosyltransferase LgtC
43	clga8A_	Alignment	not modelled	63.4	16	PDB header: transferase Chain: A: PDB Molecule: galactosyl transferase lgtc; PDBTitle: crystal structure of galacosyltransferase lgtc in complex2 with donor and acceptor sugar analogs.
44	dlh5ra_	Alignment	not modelled	61.9	13	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: glucose-1-phosphate thymidylyltransferase
45	clzcyA_	Alignment	not modelled	61.1	10	PDB header: transferase Chain: A: PDB Molecule: glycogenin-1; PDBTitle: apo form of a mutant of glycogenin in which asp159 is replaced by ser
46	dlvgwa_	Alignment	not modelled	60.2	18	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Cytidylyltransferase
47	cljylC_	Alignment	not modelled	59.6	12	PDB header: transferase Chain: C: PDB Molecule: ctp:phosphocholine cytidylyltransferase; PDBTitle: catalytic mechanism of ctp:phosphocholine2 cytidylyltransferase from streptococcus pneumoniae (licc)
48	c2xmhB_	Alignment	not modelled	58.3	11	PDB header: transferase Chain: B: PDB Molecule: ctp-inositol-1-phosphate cytidylyltransferase; PDBTitle: the x-ray structure of ctp:inositol-1-phosphate2 cytidylyltransferase from archaeoglobus fulgidus
49	dle5ka_	Alignment	not modelled	56.9	16	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Molybdenum cofactor biosynthesis protein MobA
50	d2oi6a2	Alignment	not modelled	55.7	15	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: UDP-glucose pyrophosphorylase
51	dlil2a_	Alignment	not modelled	54.7	11	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Glycogenin
52	c3hl3A_	Alignment	not modelled	52.8	8	PDB header: transferase Chain: A: PDB Molecule: glucose-1-phosphate thymidylyltransferase; PDBTitle: 2.76 angstrom crystal structure of a putative glucose-1-phosphate2 thymidylyltransferase from bacillus anthracis in complex with a3 sucrose.
53	c2f59B_	Alignment	not modelled	51.3	13	PDB header: transferase Chain: B: PDB Molecule: 6,7-dimethyl-8-ribityllumazine synthase 1; PDBTitle: lumazine synthase ribh1 from brucella abortus (gene bruab1_0785,2 swiss-prot entry q57dy1) complexed with inhibitor 5-

						nitro-6-(d-3 ribitylamino)-2,4(1h,3h) pyrimidinedione
54	c3okrC_	 Alignment	not modelled	50.0	18	PDB header: transferase Chain: C: PDB Molecule: 2-c-methyl-d-erythritol 4-phosphate cytidyltransferase; PDBTitle: structure of mtb apo 2-c-methyl-d-erythritol 4-phosphate2 cytidyltransferase (ispd)
55	c3oamD_	 Alignment	not modelled	49.1	19	PDB header: transferase Chain: D: PDB Molecule: 3-deoxy-manno-octulosonate cytidyltransferase; PDBTitle: crystal structure of cytidyltransferase from vibrio cholerae
56	c3brcA_	 Alignment	not modelled	47.6	18	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: conserved protein of unknown function; PDBTitle: crystal structure of a conserved protein of unknown function from2 methanobacterium thermoautotrophicum
57	c2c0nA_	 Alignment	not modelled	45.1	19	PDB header: viral protein/transferase Chain: A: PDB Molecule: a197; PDBTitle: crystal structure of a197 from stiv
58	c3tqdA_	 Alignment	not modelled	44.9	16	PDB header: transferase Chain: A: PDB Molecule: 3-deoxy-manno-octulosonate cytidyltransferase; PDBTitle: structure of the 3-deoxy-d-manno-octulosonate cytidyltransferase2 (kdsb) from coxiella burnetii
59	c1vkoA_	 Alignment	not modelled	44.9	18	PDB header: isomerase Chain: A: PDB Molecule: inositol-3-phosphate synthase; PDBTitle: crystal structure of inositol-3-phosphate synthase (ce21227) from2 caenorhabditis elegans at 2.30 a resolution
60	c2bmxB_	 Alignment	not modelled	43.9	11	PDB header: oxidoreductase Chain: B: PDB Molecule: alkyl hydroperoxidase c; PDBTitle: mycobacterium tuberculosis ahpc
61	d1wp0a1	 Alignment	not modelled	43.0	10	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Glutathione peroxidase-like
62	d1vica_	 Alignment	not modelled	42.7	15	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-di-phospho-sugar transferases Family: Cytidyltransferase
63	c1zctB_	 Alignment	not modelled	40.8	10	PDB header: transferase Chain: B: PDB Molecule: glycogenin-1; PDBTitle: structure of glycogenin truncated at residue 270 in a2 complex with udp
64	d2aifa1	 Alignment	not modelled	40.4	14	Fold: Bacillus chorismate mutase-like Superfamily: L30e-like Family: L30e/L7ae ribosomal proteins
65	d1vkpa_	 Alignment	not modelled	36.7	14	Fold: Pentatein, beta/alpha-propeller Superfamily: Pentatein Family: Porphyromonas-type peptidylarginine deiminase
66	c2e8bA_	 Alignment	not modelled	35.9	10	PDB header: biosynthetic protein Chain: A: PDB Molecule: probable molybdopterin-guanine dinucleotide biosynthesis PDBTitle: crystal structure of the putative protein (aq1419) from aquifex2 aeolicus vf5
67	d2bmxa1	 Alignment	not modelled	35.6	11	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Glutathione peroxidase-like
68	c3sirD_	 Alignment	not modelled	35.4	11	PDB header: hydrolase Chain: D: PDB Molecule: caspase; PDBTitle: crystal structure of drice
69	d3b48a1	 Alignment	not modelled	34.2	9	Fold: PTS system fructose IIA component-like Superfamily: PTS system fructose IIA component-like Family: DhaM-like
70	c2qh5B_	 Alignment	not modelled	33.0	11	PDB header: isomerase Chain: B: PDB Molecule: mannose-6-phosphate isomerase; PDBTitle: crystal structure of mannose-6-phosphate isomerase from helicobacter2 pylori
71	c2nn3D_	 Alignment	not modelled	31.3	6	PDB header: hydrolase Chain: D: PDB Molecule: caspase-1; PDBTitle: structure of pro-sf-caspase-1
72	d1f1ja_	 Alignment	not modelled	29.6	20	Fold: Caspase-like Superfamily: Caspase-like Family: Caspase catalytic domain
73	c3sipC_	 Alignment	not modelled	29.5	13	PDB header: hydrolase/ligase/hydrolase Chain: C: PDB Molecule: caspase; PDBTitle: crystal structure of drice and diap1-bir1 complex
74	c3v8bC_	 Alignment	not modelled	28.0	11	PDB header: oxidoreductase Chain: C: PDB Molecule: putative dehydrogenase, possibly 3-oxoacyl-lacetyl-carrier PDBTitle: crystal structure of a 3-ketoacyl-acp reductase from sinorhizobium2 meliloti 1021
75	c3or5A_	 Alignment	not modelled	27.9	6	PDB header: oxidoreductase Chain: A: PDB Molecule: thiol:disulfide interchange protein, thioredoxin family PDBTitle: crystal structure of thiol:disulfide interchange protein, thioredoxin2 family protein from chlorobium tepidum t1s
76	d2bu3a1	 Alignment	not modelled	27.6	13	Fold: Cysteine proteinases Superfamily: Cysteine proteinases Family: Phytochelatin synthase
77	d1gqna_	 Alignment	not modelled	27.5	11	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
78	c3f1cB_	 Alignment	not modelled	27.2	11	PDB header: transferase Chain: B: PDB Molecule: putative 2-c-methyl-d-erythritol 4-phosphate PDBTitle: crystal structure of 2-c-methyl-d-erythritol 4-phosphate2

						cytidylyltransferase from listeria monocytogenes
79	d1xkna_	Alignment	not modelled	26.6	25	Fold: Pentain, beta/alpha-propeller Superfamily: Pentain Family: Porphyromonas-type peptidylarginine deiminase
80	d1zbra1	Alignment	not modelled	26.4	22	Fold: Pentain, beta/alpha-propeller Superfamily: Pentain Family: Porphyromonas-type peptidylarginine deiminase
81	c3polA_	Alignment	not modelled	26.2	15	PDB header: transferase Chain: A: PDB Molecule: 3-deoxy-manno-octulosonate cytidylyltransferase; PDBTitle: 2.3 angstrom crystal structure of 3-deoxy-manno-octulosonate2 cytidylyltransferase (kdsb) from acinetobacter baumannii.
82	c2vshB_	Alignment	not modelled	26.1	11	PDB header: transferase Chain: B: PDB Molecule: 2-c-methyl-d-erythritol 4-phosphate PDBTitle: synthesis of cdp-activated ribitol for teichoic acid2 precursors in streptococcus pneumoniae
83	c3d98A_	Alignment	not modelled	23.6	14	PDB header: transferase Chain: A: PDB Molecule: bifunctional protein glmu; PDBTitle: crystal structure of glmu from mycobacterium tuberculosis, ligand-free2 form
84	c2x5sB_	Alignment	not modelled	23.0	6	PDB header: transferase Chain: B: PDB Molecule: mannose-1-phosphate guanylyltransferase; PDBTitle: crystal structure of t. maritima gdp-mannose2 pyrophosphorylase in apo state.
85	c2jerG_	Alignment	not modelled	23.0	16	PDB header: hydrolase Chain: G: PDB Molecule: agmatine deiminase; PDBTitle: agmatine deiminase of enterococcus faecalis catalyzing its2 reaction.
86	c2cu2A_	Alignment	not modelled	22.4	18	PDB header: transferase Chain: A: PDB Molecule: putative mannose-1-phosphate guanylyl transferase; PDBTitle: crystal structure of mannose-1-phosphate geranyltransferase from2 thermus thermophilus hb8
87	c2qkxA_	Alignment	not modelled	21.9	15	PDB header: transferase Chain: A: PDB Molecule: bifunctional protein glmu; PDBTitle: n-acetyl glucosamine 1-phosphate uridylyltransferase from mycobacterium2 tuberculosis complex with n-acetyl glucosamine 1-phosphate
88	d2qapa1	Alignment	not modelled	21.4	18	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
89	c2dvzA_	Alignment	not modelled	21.0	11	PDB header: transport protein Chain: A: PDB Molecule: putative exported protein; PDBTitle: structure of a periplasmic transporter
90	c2h8gA_	Alignment	not modelled	20.8	27	PDB header: hydrolase Chain: A: PDB Molecule: 5'-methylthioadenosine nucleosidase; PDBTitle: 5'-methylthioadenosine nucleosidase from arabidopsis2 thaliana
91	d1jyka_	Alignment	not modelled	20.5	11	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Cytidylyltransferase
92	d2jera1	Alignment	not modelled	20.5	16	Fold: Pentain, beta/alpha-propeller Superfamily: Pentain Family: Porphyromonas-type peptidylarginine deiminase
93	d2ewoa1	Alignment	not modelled	20.2	6	Fold: Pentain, beta/alpha-propeller Superfamily: Pentain Family: Porphyromonas-type peptidylarginine deiminase
94	c2f5xC_	Alignment	not modelled	19.3	16	PDB header: transport protein Chain: C: PDB Molecule: bugd; PDBTitle: structure of periplasmic binding protein bugd
95	c2we9A_	Alignment	not modelled	19.2	13	PDB header: unknown function Chain: A: PDB Molecule: moba-related protein; PDBTitle: crystal structure of rv0371c from mycobacterium2 tuberculosis h37rv
96	c3brkX_	Alignment	not modelled	19.1	10	PDB header: transferase Chain: X: PDB Molecule: glucose-1-phosphate adenyllyltransferase; PDBTitle: crystal structure of adp-glucose pyrophosphorylase from2 agrobacterium tumefaciens
97	d1h7ea_	Alignment	not modelled	18.6	17	Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: Cytidylyltransferase
98	c2qpqC_	Alignment	not modelled	18.6	8	PDB header: transport protein Chain: C: PDB Molecule: protein bug27; PDBTitle: structure of bug27 from bordetella pertussis
99	d2alea1	Alignment	not modelled	18.1	13	Fold: Bacillus chorismate mutase-like Superfamily: L30e-like Family: L30e/L7ae ribosomal proteins