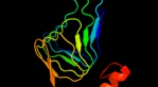
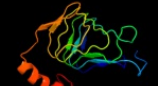


#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1t3da_	 Alignment		100.0	97	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: Serine acetyltransferase
2	c1t3dB_	 Alignment		100.0	97	PDB header: transferase Chain: B: PDB Molecule: serine acetyltransferase; PDBTitle: crystal structure of serine acetyltransferase from e.coli at 2.2a
3	c3mc4A_	 Alignment		100.0	54	PDB header: transferase Chain: A: PDB Molecule: ww/rsp5/wwp domain:bacterial transferase PDBTitle: crystal structure of ww/rsp5/wwp domain: bacterial2 transferase hexapeptide repeat: serine o-acetyltransferase3 from brucella melitensis
4	d1ssqa_	 Alignment		100.0	75	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: Serine acetyltransferase
5	c3f1xA_	 Alignment		100.0	29	PDB header: transferase Chain: A: PDB Molecule: serine acetyltransferase; PDBTitle: three dimensional structure of the serine acetyltransferase from2 bacteroides vulgatus, northeast structural genomics consortium target3 bvr62.
6	c3q1xA_	 Alignment		100.0	37	PDB header: transferase Chain: A: PDB Molecule: serine acetyltransferase; PDBTitle: crystal structure of entamoeba histolytica serine acetyltransferase 12 in complex with l-serine
7	d1ocxa_	 Alignment		99.9	19	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: Galactoside acetyltransferase-like
8	c3ectA_	 Alignment		99.9	22	PDB header: transferase Chain: A: PDB Molecule: hexapeptide-repeat containing-acetyltransferase; PDBTitle: crystal structure of the hexapeptide-repeat containing-2 acetyltransferase vca0836 from vibrio cholerae
9	c2ic7A_	 Alignment		99.9	19	PDB header: transferase Chain: A: PDB Molecule: maltose transacetylase; PDBTitle: crystal structure of maltose transacetylase from2 geobacillus kaustophilus
10	d1krra_	 Alignment		99.9	30	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: Galactoside acetyltransferase-like
11	d3tdta_	 Alignment		99.9	20	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: Tetrahydrodipicolinate-N-succinyltransferase, THDP-succinyltransferase, DapD

12	c3r0sA_	Alignment		99.9	26	PDB header: transferase Chain: A: PDB Molecule: acyl-[acyl-carrier-protein]-udp-n-acetylglucosamine o- PDBTitle: udp-n-acetylglucosamine acyltransferase from campylobacter jejuni
13	c3i3aC_	Alignment		99.9	25	PDB header: transferase Chain: C: PDB Molecule: acyl-[acyl-carrier-protein]-udp-n- PDBTitle: structural basis for the sugar nucleotide and acyl chain2 selectivity of leptospira interrogans lpxa
14	c3srtB_	Alignment		99.9	26	PDB header: transferase Chain: B: PDB Molecule: maltose o-acetyltransferase; PDBTitle: the crystal structure of a maltose o-acetyltransferase from2 clostridium difficile 630
15	c3fttA_	Alignment		99.9	23	PDB header: transferase Chain: A: PDB Molecule: putative acetyltransferase sacol2570; PDBTitle: crystal structure of the galactoside o-acetyltransferase2 from staphylococcus aureus
16	d1mr7a_	Alignment		99.9	24	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: Galactoside acetyltransferase-like
17	d1j2za_	Alignment		99.9	33	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: UDP N-acetylglucosamine acyltransferase
18	d1xata_	Alignment		99.9	26	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: Galactoside acetyltransferase-like
19	d2jf2a1	Alignment		99.9	27	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: UDP N-acetylglucosamine acyltransferase
20	d3bswa1	Alignment		99.9	21	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: PglD-like
21	c3jqyB_	Alignment	not modelled	99.9	30	PDB header: transferase Chain: B: PDB Molecule: polysialic acid o-acetyltransferase; PDBTitle: crystal strucutre of the polysia specific acetyltransferase neuo
22	c3cj8B_	Alignment	not modelled	99.9	34	PDB header: transferase Chain: B: PDB Molecule: 2,3,4,5-tetrahydropyridine-2-carboxylate n- PDBTitle: crystal structure of 2,3,4,5-tetrahydropyridine-2-carboxylate n-2 succinyltransferase from enterococcus faecalis v583
23	c2iu9C_	Alignment	not modelled	99.9	23	PDB header: transferase Chain: C: PDB Molecule: udp-3-o-[3-hydroxymyristoyl] glucosamine PDBTitle: chlamydia trachomatis lpxd with 100mm udpglcnac (complex ii)
24	c3fsbB_	Alignment	not modelled	99.9	27	PDB header: transferase Chain: B: PDB Molecule: qdtc; PDBTitle: crystal structure of qdtc, the dtdp-3-amino-3,6-dideoxy-d-2 glucose n-acetyl transferase from thermoanaerobacterium3 thermosaccharolyticum in complex with coa and dtdp-3-amino-4 quinovose
25	c3eevC_	Alignment	not modelled	99.8	22	PDB header: transferase Chain: C: PDB Molecule: chloramphenicol acetyltransferase; PDBTitle: crystal structure of chloramphenicol acetyltransferase vca0300 from2 vibrio cholerae o1 biovar eltor
26	c3pmoA_	Alignment	not modelled	99.8	16	PDB header: transferase Chain: A: PDB Molecule: udp-3-o-[3-hydroxymyristoyl] glucosamine n-acyltransferase; PDBTitle: the structure of lpxd from pseudomonas aeruginosa at 1.3 a resolution
27	c3mqhD_	Alignment	not modelled	99.8	34	PDB header: transferase Chain: D: PDB Molecule: lipopolysaccharides biosynthesis acetyltransferase; PDBTitle: crystal structure of the 3-n-acetyl transferase wlibb from

						bordetella2 petrii in complex with coa and udp-3-amino-2-acetamido-2,3-dideoxy3 glucuronic acid
28	c3eg4A	Alignment	not modelled	99.8	20	PDB header: transferase Chain: A: PDB Molecule: 2,3,4,5-tetrahydropyridine-2,6-dicarboxylate n- PDBTitle: crystal structure of 2,3,4,5-tetrahydropyridine-2-2 carboxylate n-succinyltransferase from brucella melitensis3 biovar abortus 2308
29	d1g97a1	Alignment	not modelled	99.8	19	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: GlmU C-terminal domain-like
30	c3eh0C	Alignment	not modelled	99.8	22	PDB header: transferase Chain: C: PDB Molecule: udp-3-o-[3-hydroxymyristoyl] glucosamine n- PDBTitle: crystal structure of lpxd from escherichia coli
31	c2wlgA	Alignment	not modelled	99.8	19	PDB header: transferase Chain: A: PDB Molecule: polysialic acid o-acetyltransferase; PDBTitle: crystallographic analysis of the polysialic acid o-2 acetyltransferase oatwy
32	c1hm8A	Alignment	not modelled	99.8	19	PDB header: transferase Chain: A: PDB Molecule: udp-n-acetylglucosamine-1-phosphate uridyltransferase; PDBTitle: crystal structure of s.pneumoniae n-acetylglucosamine-1-phosphate2 uridyltransferase, glmu, bound to acetyl coenzyme a
33	d2oi6a1	Alignment	not modelled	99.7	21	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: GlmU C-terminal domain-like
34	d1v3wa	Alignment	not modelled	99.7	26	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: gamma-carbonic anhydrase-like
35	c2oi6A	Alignment	not modelled	99.7	19	PDB header: transferase Chain: A: PDB Molecule: bifunctional protein glmu; PDBTitle: e. coli glmu- complex with udp-glcnac, coa and glcn-1-po4
36	c2v0hA	Alignment	not modelled	99.7	23	PDB header: transferase Chain: A: PDB Molecule: bifunctional protein glmu; PDBTitle: characterization of substrate binding and catalysis of the2 potential antibacterial target n-acetylglucosamine-1-3 phosphate uridyltransferase (glmu)
37	c3ixcA	Alignment	not modelled	99.7	18	PDB header: transferase Chain: A: PDB Molecule: hexapeptide transferase family protein; PDBTitle: crystal structure of hexapeptide transferase family protein from2 anaplasma phagocytophilum
38	c3r3rA	Alignment	not modelled	99.7	21	PDB header: transferase Chain: A: PDB Molecule: ferripyochelin binding protein; PDBTitle: structure of the yrda ferripyochelin binding protein from salmonella2 enterica
39	d1xhda	Alignment	not modelled	99.7	26	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: gamma-carbonic anhydrase-like
40	c3fsyC	Alignment	not modelled	99.6	20	PDB header: transferase Chain: C: PDB Molecule: tetrahydrodipicolinate n-succinyltransferase; PDBTitle: structure of tetrahydrodipicolinate n-succinyltransferase2 (rv1201c;dapd) in complex with succinyl-coa from mycobacterium3 tuberculosis
41	c3r1wA	Alignment	not modelled	99.6	24	PDB header: lyase Chain: A: PDB Molecule: carbonic anhydrase; PDBTitle: crystal structure of a carbonic anhydrase from a crude oil degrading2 psychrophilic library
42	c2ggqA	Alignment	not modelled	99.5	20	PDB header: transferase Chain: A: PDB Molecule: 401aa long hypothetical glucose-1-phosphate PDBTitle: complex of hypothetical glucose-1-phosphate thymidyltransferase from2 sulfobolus tokodaii
43	c3c8vA	Alignment	not modelled	99.5	13	PDB header: transferase Chain: A: PDB Molecule: putative acetyltransferase; PDBTitle: crystal structure of putative acetyltransferase (yp_390128.1) from2 desulfovibrio desulfuricans g20 at 2.28 a resolution
44	c2rijA	Alignment	not modelled	99.3	15	PDB header: transferase Chain: A: PDB Molecule: putative 2,3,4,5-tetrahydropyridine-2-carboxylate n- PDBTitle: crystal structure of a putative 2,3,4,5-tetrahydropyridine-2-2 carboxylate n-succinyltransferase (cj1605c, dapd) from campylobacter3 jejuni at 1.90 a resolution
45	c1qreA	Alignment	not modelled	99.2	12	PDB header: lyase Chain: A: PDB Molecule: carbonic anhydrase; PDBTitle: a closer look at the active site of gamma-carbonic anhydrases: high2 resolution crystallographic studies of the carbonic anhydrase from3 methanosarcina thermophila
46	d1qrea	Alignment	not modelled	99.2	12	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: gamma-carbonic anhydrase-like
47	d2f9ca1	Alignment	not modelled	99.0	17	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: YdcK-like
48	c2qkxA	Alignment	not modelled	98.8	16	PDB header: transferase Chain: A: PDB Molecule: bifunctional protein glmu; PDBTitle: n-acetyl glucosamine 1-phosphate uridyltransferase from mycobacterium2 tuberculosis complex with n-acetyl glucosamine 1-phosphate
49	d1fxja1	Alignment	not modelled	98.8	14	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: GlmU C-terminal domain-like
50	c3kwdA	Alignment	not modelled	98.8	22	PDB header: lyase, protein binding, photosynthesis Chain: A: PDB Molecule: carbon dioxide concentrating mechanism protein;

						PDBTitle: inactive truncation of the beta-carboxysomal gamma-carbonic anhydrase,2 ccmm, form 1
51	d1yp2a1	Alignment	not modelled	98.8	14	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: GlmU C-terminal domain-like
52	c1yp3C	Alignment	not modelled	98.7	16	PDB header: transferase Chain: C: PDB Molecule: glucose-1-phosphate adenylyltransferase small PDBTitle: crystal structure of potato tuber adp-glucose2 pyrophosphorylase in complex with atp
53	c3d98A	Alignment	not modelled	98.7	16	PDB header: transferase Chain: A: PDB Molecule: bifunctional protein glmu; PDBTitle: crystal structure of glmu from mycobacterium tuberculosis, ligand-free2 form
54	c3brkX	Alignment	not modelled	98.6	21	PDB header: transferase Chain: X: PDB Molecule: glucose-1-phosphate adenylyltransferase; PDBTitle: crystal structure of adp-glucose pyrophosphorylase from2 agrobacterium tumefaciens
55	c1fwyA	Alignment	not modelled	98.5	11	PDB header: transferase Chain: A: PDB Molecule: udp-n-acetylglucosamine pyrophosphorylase; PDBTitle: crystal structure of n-acetylglucosamine 1-phosphate2 uridylyltransferase bound to udp-glcnac
56	d2icya1	Alignment	not modelled	19.4	26	Fold: Single-stranded left-handed beta-helix Superfamily: Trimeric LpxA-like enzymes Family: GlmU C-terminal domain-like
57	d1o57a2	Alignment	not modelled	18.4	20	Fold: PRTase-like Superfamily: PRTase-like Family: Phosphoribosyltransferases (PRTases)
58	c1b0nB	Alignment	not modelled	17.0	31	PDB header: transcription regulator Chain: B: PDB Molecule: protein (sini protein); PDBTitle: sinr protein/sini protein complex
59	d1b0nb	Alignment	not modelled	17.0	31	Fold: Dimerisation interlock Superfamily: SinR repressor dimerisation domain-like Family: SinR repressor dimerisation domain-like
60	c2ioaA	Alignment	not modelled	15.7	13	PDB header: ligase, hydrolase Chain: A: PDB Molecule: bifunctional glutathionylspermidine PDBTitle: e. coli bifunctional glutathionylspermidine2 synthetase/amidase incomplex with mg2+ and adp and3 phosphinate inhibitor
61	c3qxyA	Alignment	not modelled	15.4	25	PDB header: transferase Chain: A: PDB Molecule: n-lysine methyltransferase setd6; PDBTitle: human setd6 in complex with rela lys310
62	c3oqvA	Alignment	not modelled	13.5	13	PDB header: protein binding Chain: A: PDB Molecule: albc; PDBTitle: albc, a cyclodipeptide synthase from streptomyces noursei
63	d2ivxa2	Alignment	not modelled	9.0	19	Fold: Cyclin-like Superfamily: Cyclin-like Family: Cyclin
64	c3smtA	Alignment	not modelled	9.0	11	PDB header: transferase Chain: A: PDB Molecule: histone-lysine n-methyltransferase setd3; PDBTitle: crystal structure of human set domain-containing protein3
65	c3bitA	Alignment	not modelled	8.7	14	PDB header: transcription Chain: A: PDB Molecule: fact complex subunit spt16; PDBTitle: crystal structure of yeast spt16 n-terminal domain
66	c2vjjA	Alignment	not modelled	8.5	11	PDB header: viral protein Chain: A: PDB Molecule: tailspike protein; PDBTitle: tailspike protein of e.coli bacteriophage hk620 in complex2 with hexasaccharide
67	c2d7cD	Alignment	not modelled	8.5	11	PDB header: protein transport Chain: D: PDB Molecule: rab11 family-interacting protein 3; PDBTitle: crystal structure of human rab11 in complex with fip3 rab-2 binding domain
68	c3gt2A	Alignment	not modelled	8.1	15	PDB header: unknown function Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of the p60 domain from m. avium2 paratuberculosis antigen map1272c
69	d3blhb1	Alignment	not modelled	7.8	18	Fold: Cyclin-like Superfamily: Cyclin-like Family: Cyclin
70	c2hv8D	Alignment	not modelled	7.7	19	PDB header: protein transport Chain: D: PDB Molecule: rab11 family-interacting protein 3; PDBTitle: crystal structure of gtp-bound rab11 in complex with fip3
71	c2z9fC	Alignment	not modelled	7.5	21	PDB header: biosynthetic protein Chain: C: PDB Molecule: cellulose synthase operon protein d; PDBTitle: crystal structure of axcesd protein from acetobacter xylinum
72	c2zkrq	Alignment	not modelled	6.9	19	PDB header: ribosomal protein/rna Chain: Q: PDB Molecule: rna expansion segment es31 part ii; PDBTitle: structure of a mammalian ribosomal 60s subunit within an2 80s complex obtained by docking homology models of the rna3 and proteins into an 8.7 a cryo-em map
73	c3oo2A	Alignment	not modelled	6.6	15	PDB header: isomerase Chain: A: PDB Molecule: alanine racemase 1; PDBTitle: 2.37 angstrom resolution crystal structure of an alanine racemase2 (alr) from staphylococcus aureus subsp. aureus col
74	c2zuuA	Alignment	not modelled	6.5	8	PDB header: transferase Chain: A: PDB Molecule: lacto-n-biose phosphorylase; PDBTitle: crystal structure of galacto-n-biose/lacto-n-biose i phosphorylase in2 complex with glcnac
75	d1ex4a1	Alignment	not modelled	6.4	27	Fold: SH3-like barrel Superfamily: DNA-binding domain of retroviral integrase Family: DNA-binding domain of retroviral integrase

76	c4a1aP_	Alignment	not modelled	6.2	16	PDB header: ribosome Chain: P: PDB Molecule: 60s ribosomal protein l21; PDBTitle: t.thermophila 60s ribosomal subunit in complex with2 initiation factor 6. this file contains 5s rrna,3 5.8s rrna and proteins of molecule 3.
77	dlihwa_	Alignment	not modelled	5.9	27	Fold: SH3-like barrel Superfamily: DNA-binding domain of retroviral integrase Family: DNA-binding domain of retroviral integrase
78	c3iz5U_	Alignment	not modelled	5.8	19	PDB header: ribosome Chain: U: PDB Molecule: 60s ribosomal protein l21 (l21e); PDBTitle: localization of the large subunit ribosomal proteins into a 5.5 a2 cryo-em map of triticum aestivum translating 80s ribosome
79	c3izcU_	Alignment	not modelled	5.8	16	PDB header: ribosome Chain: U: PDB Molecule: 60s ribosomal protein rpl21 (l21e); PDBTitle: localization of the large subunit ribosomal proteins into a 6.1 a2 cryo-em map of saccharomyces cerevisiae translating 80s ribosome
80	d1hska2	Alignment	not modelled	5.8	22	Fold: Uridine diphospho-N-Acetylenolpyruvylglucosamine reductase, MurB, C-terminal domain Superfamily: Uridine diphospho-N-Acetylenolpyruvylglucosamine reductase, MurB, C-terminal domain Family: Uridine diphospho-N-Acetylenolpyruvylglucosamine reductase, MurB, C-terminal domain
81	c2x9qA_	Alignment	not modelled	5.6	15	PDB header: ligase Chain: A: PDB Molecule: cyclodi peptide synthetase; PDBTitle: structure of the mycobacterium tuberculosis protein, rv2275,2 demonstrates that cyclodi peptide synthetases are related3 to type i trna-synthetases.
82	d1uxya2	Alignment	not modelled	5.3	26	Fold: Uridine diphospho-N-Acetylenolpyruvylglucosamine reductase, MurB, C-terminal domain Superfamily: Uridine diphospho-N-Acetylenolpyruvylglucosamine reductase, MurB, C-terminal domain Family: Uridine diphospho-N-Acetylenolpyruvylglucosamine reductase, MurB, C-terminal domain
83	c2cu2A_	Alignment	not modelled	5.3	21	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
84	d1ugpa_	Alignment	not modelled	5.3	16	Fold: Nitrile hydratase alpha chain Superfamily: Nitrile hydratase alpha chain Family: Nitrile hydratase alpha chain
85	c3qvvA_	Alignment	not modelled	5.3	25	PDB header: transferase Chain: A: PDB Molecule: set and mynd domain-containing protein 2; PDBTitle: crystal structure of histone lysine methyltransferase smyd2 in complex2 with the cofactor product adohcy
86	d2g46a1	Alignment	not modelled	5.2	8	Fold: beta-clip Superfamily: SET domain Family: Viral histone H3 Lysine 27 Methyltransferase
87	d2z1ca1	Alignment	not modelled	5.2	13	Fold: OB-fold Superfamily: HupF/HypC-like Family: HupF/HypC-like
88	c1ds5F_	Alignment	not modelled	5.2	33	PDB header: transferase Chain: F: PDB Molecule: casein kinase, beta chain; PDBTitle: dimeric crystal structure of the alpha subunit in complex2 with two beta peptides mimicking the architecture of the3 tetrameric protein kinase ck2 holoenzyme.
89	d2ar0a1	Alignment	not modelled	5.1	14	Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: N-6 DNA Methylase-like