























#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2gejA_	 Alignment		98.2	12	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
2	c3ot5D_	 Alignment		97.5	12	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
3	c2x0dA_	 Alignment		96.9	13	PDB header: transferase Chain: A: PDB Molecule: wsaf; PDBTitle: apo structure of wsaf
4	d1v4va_	 Alignment		96.8	14	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDP-N-acetylglucosamine 2-epimerase
5	c2xmpB_	 Alignment		96.5	14	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
6	c2vsnB_	 Alignment		96.5	12	PDB header: transferase Chain: B: PDB Molecule: xcogt; PDBTitle: structure and topological arrangement of an o-glcnac2 transferase homolog: insight into molecular control of3 intracellular glycosylation
7	c3c4vB_	 Alignment		96.0	8	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.
8	c3oy2A_	 Alignment		96.0	10	PDB header: viral protein,transferase Chain: A: PDB Molecule: glycosyltransferase b736l; PDBTitle: crystal structure of a putative glycosyltransferase from paramecium2 bursaria chlorella virus ny2a
9	c2jimH_	 Alignment		95.9	13	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.
10	d1f6da_	 Alignment		95.7	13	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDP-N-acetylglucosamine 2-epimerase
11	c2x6rA_	 Alignment		95.6	12	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

12	d1o6ca_		Alignment		95.4	14	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDP-N-acetylglucosamine 2-epimerase
13	c1uquB_		Alignment		95.2	14	PDB header: synthase Chain: B: PDB Molecule: alpha, alpha-trehalose-phosphate synthase; PDBTitle: trehalose-6-phosphate from e. coli bound with udp-glucose.
14	c3pe3D_		Alignment		95.2	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
15	c2r60A_		Alignment		94.7	14	PDB header: transferase Chain: A: PDB Molecule: glycosyl transferase, group 1; PDBTitle: structure of apo sucrose phosphate synthase (sps) of2 halothermothrix orenii
16	c3okaA_		Alignment		92.5	12	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)
17	c3dzcA_		Alignment		91.9	13	PDB header: isomerase Chain: A: PDB Molecule: udp-n-acetylglucosamine 2-epimerase; PDBTitle: 2.35 angstrom resolution structure of webc (vc0917), a udp-n-2 acetylglucosamine 2-epimerase from vibrio cholerae.
18	c2xcuC_		Alignment		87.5	12	PDB header: transferase Chain: C: PDB Molecule: 3-deoxy-d-manno-2-octulosonic acid transferase; PDBTitle: membrane-embedded monofunctional glycosyltransferase waaa of aquifex2 aeolicus, complex with cmp
19	d2iw1a1		Alignment		85.7	11	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Glycosyl transferases group 1
20	d2f9fa1		Alignment		83.7	14	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Glycosyl transferases group 1
21	d2bfa1		Alignment	not modelled	76.2	10	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Glycosyl transferases group 1
22	d1duvg2		Alignment	not modelled	69.1	20	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
23	d1uqta_		Alignment	not modelled	66.3	12	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Trehalose-6-phosphate synthase, OtsA
24	d2bisa1		Alignment	not modelled	64.8	12	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Glycosyl transferases group 1
25	d1pswa_		Alignment	not modelled	60.5	13	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: ADP-heptose LPS heptosyltransferase II
26	c3oneA_		Alignment	not modelled	55.1	9	PDB header: hydrolase/hydrolase substrate Chain: A: PDB Molecule: adenosylhomocysteinase; PDBTitle: crystal structure of lupinus luteus s-adenosyl-l-homocysteine2 hydrolase in complex with adenine
27	c2w37A_		Alignment	not modelled	53.7	18	PDB header: transferase Chain: A: PDB Molecule: ornithine carbamoyltransferase, catabolic; PDBTitle: crystal structure of the hexameric catabolic ornithine2 transcarbamylase from lactobacillus hilgardii
28	c1v8bA_		Alignment	not modelled	49.2	13	PDB header: hydrolase Chain: A: PDB Molecule: adenosylhomocysteinase; PDBTitle: crystal structure of a hydrolase
							PDB header: transferase

29	c3tovB	Alignment	not modelled	48.5	17	Chain: B: PDB Molecule: glycosyl transferase family 9; PDBTitle: the crystal structure of the glycosyl transferase family 9 from2 veillonella parvula dsm 2008
30	d1qs0b1	Alignment	not modelled	43.7	16	Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase Pyr module
31	d1dxha2	Alignment	not modelled	38.8	14	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
32	d1vlva2	Alignment	not modelled	38.0	16	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
33	c3dhyc	Alignment	not modelled	36.4	18	PDB header: hydrolase Chain: C: PDB Molecule: adenosylhomocysteinase; PDBTitle: crystal structures of mycobacterium tuberculosis s-adenosyl-l-2 homocysteine hydrolase in ternary complex with substrate and3 inhibitors
34	c2h1fB	Alignment	not modelled	33.1	12	PDB header: transferase Chain: B: PDB Molecule: lipopolysaccharide heptosyltransferase-1; PDBTitle: e. coli heptosyltransferase waac with adp
35	d1li4a2	Alignment	not modelled	32.9	13	Fold: Flavodoxin-like Superfamily: Formate/glycerate dehydrogenase catalytic domain-like Family: S-adenosylhomocystein hydrolase
36	d1pvva2	Alignment	not modelled	27.9	24	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
37	c1d4fD	Alignment	not modelled	27.5	14	PDB header: hydrolase Chain: D: PDB Molecule: s-adenosylhomocysteine hydrolase; PDBTitle: crystal structure of recombinant rat-liver d244e mutant s-2 adenosylhomocysteine hydrolase
38	c3r1fO	Alignment	not modelled	27.5	26	PDB header: transcription Chain: O: PDB Molecule: esx-1 secretion-associated regulator espr; PDBTitle: crystal structure of a key regulator of virulence in mycobacterium2 tuberculosis
39	c1ortD	Alignment	not modelled	27.3	14	PDB header: transferase Chain: D: PDB Molecule: ornithine transcarbamoylase; PDBTitle: ornithine transcarbamoylase from pseudomonas aeruginosa
40	c3updA	Alignment	not modelled	26.6	19	PDB header: transferase Chain: A: PDB Molecule: ornithine carbamoyltransferase; PDBTitle: 2.9 angstrom crystal structure of ornithine carbamoyltransferase2 (argf) from vibrio vulnificus
41	d1iyjb5	Alignment	not modelled	22.6	21	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Single strand DNA-binding domain, SSB
42	d1xmba1	Alignment	not modelled	22.3	8	Fold: Phosphorylase/hydrolase-like Superfamily: Zn-dependent exopeptidases Family: Bacterial dinuclear zinc exopeptidases
43	c2otcA	Alignment	not modelled	22.1	17	PDB header: transferase Chain: A: PDB Molecule: ornithine carbamoyltransferase; PDBTitle: ornithine transcarbamoylase complexed with n-2 (phosphonacetyl)-l-ornithine
44	d2bfdb1	Alignment	not modelled	21.9	14	Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase Pyr module
45	c1olsB	Alignment	not modelled	20.7	16	PDB header: oxidoreductase Chain: B: PDB Molecule: 2-oxoisovalerate dehydrogenase beta subunit; PDBTitle: roles of his291-alpha and his146-beta' in the reductive2 acylation reaction catalyzed by human branched-chain3 alpha-ketoacid dehydrogenase
46	c3en0A	Alignment	not modelled	18.9	13	PDB header: hydrolase Chain: A: PDB Molecule: cyanophycinase; PDBTitle: the structure of cyanophycinase
47	c3rhzb	Alignment	not modelled	17.8	10	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
48	c3cseA	Alignment	not modelled	15.6	14	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrofolate reductase; PDBTitle: candida glabrata dihydrofolate reductase complexed with2 nadph and 2,4-diamino-5-(3-(2,5-dimethoxyphenyl)prop-1-3 ynyl)-6-ethylpyrimidine (ucp120b)
49	c1vlvA	Alignment	not modelled	15.3	13	PDB header: transferase Chain: A: PDB Molecule: ornithine carbamoyltransferase; PDBTitle: crystal structure of ornithine carbamoyltransferase (tm1097) from2 thermotoga maritima at 2.25 a resolution
50	c2kzka	Alignment	not modelled	15.2	37	PDB header: protein transport Chain: A: PDB Molecule: uncharacterized protein yol083w; PDBTitle: solution structure of alpha-mannosidase binding domain of atg34
51	c1jb9A	Alignment	not modelled	15.1	9	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin-nadp reductase; PDBTitle: crystal structure of the ferredoxin:nadp+ reductase from maize root at2 1.7 angstroms
52	c3q3hA	Alignment	not modelled	14.7	13	PDB header: transferase Chain: A: PDB Molecule: hmw1c-like glycosyltransferase; PDBTitle: crystal structure of the actinobacillus pleuropneumoniae hmw1c2 glycosyltransferase in complex with udp-glc
53	d1x6va1	Alignment	not modelled	14.5	20	Fold: PUA domain-like Superfamily: PUA domain-like Family: ATP sulfurylase N-terminal domain

54	d1otha2	Alignment	not modelled	14.3	20	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
55	c2qzsA	Alignment	not modelled	14.2	12	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)
56	d1rzua	Alignment	not modelled	14.1	12	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Glycosyl transferases group 1
57	c2kzbA	Alignment	not modelled	14.0	18	PDB header: protein transport Chain: A: PDB Molecule: autophagy-related protein 19; PDBTitle: solution structure of alpha-mannosidase binding domain of atg19
58	d2nx2a1	Alignment	not modelled	13.4	14	Fold: MCP/YpsA-like Superfamily: MCP/YpsA-like Family: YpsA-like
59	c2jzcA	Alignment	not modelled	13.2	18	PDB header: transferase Chain: A: PDB Molecule: udp-n-acetylglucosamine transferase subunit PDBTitle: nmr solution structure of alg13: the sugar donor subunit of 2 a yeast n-acetylglucosamine transferase. northeast3 structural genomics consortium target yg1
60	c3jrnA	Alignment	not modelled	13.0	16	PDB header: plant protein Chain: A: PDB Molecule: at1g72930 protein; PDBTitle: crystal structure of tir domain from arabidopsis thaliana
61	d1u9ya1	Alignment	not modelled	12.9	8	Fold: PRTase-like Superfamily: PRTase-like Family: Phosphoribosylpyrophosphate synthetase-like
62	c3d64A	Alignment	not modelled	12.5	13	PDB header: hydrolase Chain: A: PDB Molecule: adenosylhomocysteinease; PDBTitle: crystal structure of s-adenosyl-l-homocysteine hydrolase from2 burkholderia pseudomallei
63	d1pj3a1	Alignment	not modelled	12.2	17	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Aminoacid dehydrogenase-like, C-terminal domain
64	c1dkrB	Alignment	not modelled	12.1	27	PDB header: transferase Chain: B: PDB Molecule: phosphoribosyl pyrophosphate synthetase; PDBTitle: crystal structures of bacillus subtilis phosphoribosylpyrophosphate2 synthetase: molecular basis of allosteric inhibition and activation.
65	d2f62a1	Alignment	not modelled	12.0	11	Fold: Flavodoxin-like Superfamily: N-(deoxy)ribosyltransferase-like Family: N-deoxyribosyltransferase
66	d1jhda1	Alignment	not modelled	11.9	7	Fold: PUA domain-like Superfamily: PUA domain-like Family: ATP sulfurylase N-terminal domain
67	d1wdds	Alignment	not modelled	11.3	33	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
68	d1s2da	Alignment	not modelled	11.1	15	Fold: Flavodoxin-like Superfamily: N-(deoxy)ribosyltransferase-like Family: N-deoxyribosyltransferase
69	d2v6ai1	Alignment	not modelled	11.1	33	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
70	c3c7cB	Alignment	not modelled	11.1	9	PDB header: oxidoreductase Chain: B: PDB Molecule: octopine dehydrogenase; PDBTitle: a structural basis for substrate and stereo selectivity in2 octopine dehydrogenase (odh-nadh-l-arginine)
71	c3q98A	Alignment	not modelled	10.9	13	PDB header: transferase Chain: A: PDB Molecule: transcarbamylase; PDBTitle: structure of ygew encoded protein from e. coli
72	c2z5bB	Alignment	not modelled	10.6	21	PDB header: chaperone Chain: B: PDB Molecule: uncharacterized protein ylr021w; PDBTitle: crystal structure of a novel chaperone complex for yeast2 20s proteasome assembly
73	d1miaa5	Alignment	not modelled	10.5	19	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Single strand DNA-binding domain, SSB
74	d1g8fa1	Alignment	not modelled	10.5	21	Fold: PUA domain-like Superfamily: PUA domain-like Family: ATP sulfurylase N-terminal domain
75	c3q6nF	Alignment	not modelled	10.4	16	PDB header: chaperone Chain: F: PDB Molecule: heat shock protein hsp 90-alpha; PDBTitle: crystal structure of human mc-hsp90 in p21 space group
76	d1uzdc1	Alignment	not modelled	10.3	33	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
77	c2dgdD	Alignment	not modelled	10.3	10	PDB header: lyase Chain: D: PDB Molecule: 223aa long hypothetical arylmalonate decarboxylase; PDBTitle: crystal structure of st0656, a function unknown protein from2 sulfobolus tokodaii
78	d1v47a1	Alignment	not modelled	10.3	10	Fold: PUA domain-like Superfamily: PUA domain-like Family: ATP sulfurylase N-terminal domain
79	d8ruci	Alignment	not modelled	10.3	33	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit

80	d1ej7s_	Alignment	not modelled	10.2	33	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
81	d1gk8i_	Alignment	not modelled	9.8	33	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
82	d2pmra1	Alignment	not modelled	9.7	25	Fold: immunoglobulin/albumin-binding domain-like Superfamily: AF1782-like Family: AF1782-like
83	c2r5wA_	Alignment	not modelled	9.0	13	PDB header: hydrolase, transferase Chain: A: PDB Molecule: nicotinamide-nucleotide adenylyltransferase; PDBTitle: crystal structure of a bifunctional nm2 adenylyltransferase/adp ribose pyrophosphatase from3 francisella tularensis
84	d2e74g1	Alignment	not modelled	8.8	44	Fold: Single transmembrane helix Superfamily: PetG subunit of the cytochrome b6f complex Family: PetG subunit of the cytochrome b6f complex
85	c1m14A_	Alignment	not modelled	8.7	18	PDB header: transferase Chain: A: PDB Molecule: aspartate transcarbamoylase; PDBTitle: the pala-liganded aspartate transcarbamoylase catalytic subunit from2 pyrococcus abyssi
86	d1m8pa1	Alignment	not modelled	8.6	17	Fold: PUA domain-like Superfamily: PUA domain-like Family: ATP sulfurylase N-terminal domain
87	c1zh8B_	Alignment	not modelled	8.6	20	PDB header: oxidoreductase Chain: B: PDB Molecule: oxidoreductase; PDBTitle: crystal structure of oxidoreductase (tm0312) from thermotoga maritima2 at 2.50 a resolution
88	c3nv9A_	Alignment	not modelled	8.4	20	PDB header: oxidoreductase Chain: A: PDB Molecule: malic enzyme; PDBTitle: crystal structure of entamoeba histolytica malic enzyme
89	d1f8ya_	Alignment	not modelled	8.3	15	Fold: Flavodoxin-like Superfamily: N-(deoxy)ribosyltransferase-like Family: N-deoxyribosyltransferase
90	c3oziB_	Alignment	not modelled	8.1	21	PDB header: plant protein Chain: B: PDB Molecule: l6tr; PDBTitle: crystal structure of the tir domain from the flax disease resistance2 protein l6
91	c1zcoA_	Alignment	not modelled	8.1	15	PDB header: lyase Chain: A: PDB Molecule: 2-dehydro-3-deoxyphosphoheptonate aldolase; PDBTitle: crystal structure of pyrococcus furiosus 3-deoxy-d-arabino-2 heptulosonate 7-phosphate synthase
92	c3mtqA_	Alignment	not modelled	7.6	11	PDB header: transferase Chain: A: PDB Molecule: putative phosphoenolpyruvate-dependent sugar PDBTitle: crystal structure of a putative phosphoenolpyruvate-dependent sugar2 phosphotransferase system (pts) permease (kpn_04802) from klebsiella3 pneumoniae subsp. pneumoniae mgh 78578 at 1.70 a resolution
93	d1ir1s_	Alignment	not modelled	7.6	33	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
94	c1qr6A_	Alignment	not modelled	7.5	18	PDB header: oxidoreductase Chain: A: PDB Molecule: malic enzyme 2; PDBTitle: human mitochondrial nad(p)-dependent malic enzyme
95	c3hftA_	Alignment	not modelled	7.5	16	PDB header: hydrolase Chain: A: PDB Molecule: wbms, polysaccharide deacetylase involved in o-antigen PDBTitle: crystal structure of a putative polysaccharide deacetylase involved in2 o-antigen biosynthesis (wbms, bb0128) from bordetella bronchiseptica3 at 1.90 a resolution
96	c3clbA_	Alignment	not modelled	7.3	21	PDB header: oxidoreductase, transferase Chain: A: PDB Molecule: dhfr-ts; PDBTitle: structure of bifunctional tcdhfr-ts in complex with tmq
97	c2z5cA_	Alignment	not modelled	7.3	19	PDB header: chaperone/hydrolase Chain: A: PDB Molecule: protein ypl144w; PDBTitle: crystal structure of a novel chaperone complex for yeast2 20s proteasome assembly
98	d1gq2a1	Alignment	not modelled	7.2	14	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Aminoacid dehydrogenase-like, C-terminal domain
99	c1a1sA_	Alignment	not modelled	7.2	24	PDB header: transcarbamylase Chain: A: PDB Molecule: ornithine carbamoyltransferase; PDBTitle: ornithine carbamoyltransferase from pyrococcus furiosus