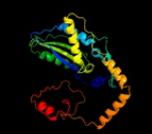


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD3234c (-)_3610371_3611186
Date	Thu Aug 8 16:20:43 BST 2019
Unique Job ID	5f41599a12d7e2db

Detailed template
information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c6chjB_	 Alignment		100.0	28	PDB header: transferase Chain: B; PDB Molecule: diacylglycerol o-acyltransferase; PDBTitle: wax ester synthase/diacylglycerol acyltransferase from marinobacter2 aquaeolei vt8
2	c6n8eA_	 Alignment		100.0	15	PDB header: hydrolase Chain: A; PDB Molecule: holo-obif1; PDBTitle: crystal structure of holo-obif1, a five domain nonribosomal peptide2 synthetase from burkholderia diffusa
3	c2vsqA_	 Alignment		100.0	12	PDB header: ligase Chain: A; PDB Molecule: surfactin synthetase subunit 3; PDBTitle: structure of surfactin a synthetase c (srfa-c), a nonribosomal peptide2 synthetase termination module
4	c4zxiA_	 Alignment		100.0	11	PDB header: biosynthetic protein Chain: A; PDB Molecule: tyrocidine synthetase 3; PDBTitle: crystal structure of holo-ab3403 a four domain nonribosomal peptide2 synthetase bound to amp and glycine
5	c4znmB_	 Alignment		100.0	15	PDB header: ligase Chain: B; PDB Molecule: c-domain type ii peptide synthetase; PDBTitle: crystal structure of sgcc5 protein from streptomyces globisporus (apo2 form)
6	c6p1jA_	 Alignment		100.0	15	PDB header: biosynthetic protein Chain: A; PDB Molecule: txo2; PDBTitle: the structure of condensation and adenylation domains of teixobactin-2 producing nonribosomal peptide synthetase txo2 serine module
7	c4zxiA_	 Alignment		100.0	14	PDB header: biosynthetic protein Chain: A; PDB Molecule: enterobactin synthase component f; PDBTitle: crystal structure of holo-entf a nonribosomal peptide synthetase in2 the thioester-forming conformation
8	c6cgoB_	 Alignment		100.0	16	PDB header: biosynthetic protein Chain: B; PDB Molecule: condensation domain protein; PDBTitle: molecular basis for condensation domain-mediated chain release from2 the enacyloxin polyketide synthase
9	c6ad3A_	 Alignment		99.9	9	PDB header: biosynthetic protein Chain: A; PDB Molecule: lovastatin nonaketide synthase moka; PDBTitle: structural characterization of the condensation domain from monacolin2 k polyketide synthase moka
10	c5t81A_	 Alignment		99.9	13	PDB header: biosynthetic protein Chain: A; PDB Molecule: epob; PDBTitle: rhombohedral crystal form of the epob nrps cyclization- docking2 bidomain from sorangium cellulosum
11	c5m6pB_	 Alignment		99.9	10	PDB header: isomerase Chain: B; PDB Molecule: tyrocidine synthase 2; PDBTitle: crystal structure of the epimerization domain from module 3 of2 tyrocidine synthetase b, tycb3(e)

12	c5t3eA_	Alignment		99.9	11	PDB header: ligase Chain: A: PDB Molecule: bacillamide synthetase heterocyclization domain; PDBTitle: crystal structure of a nonribosomal peptide synthetase2 heterocyclization domain.
13	c2xhgA_	Alignment		99.9	10	PDB header: isomerase Chain: A: PDB Molecule: tyrocidine synthetase a; PDBTitle: crystal structure of the epimerization domain from the initiation2 module of tyrocidine biosynthesis
14	c6aefB_	Alignment		99.9	8	PDB header: transferase Chain: B: PDB Molecule: polyketide synthase associated protein papa2; PDBTitle: papa2 acyl transferase
15	c6m7lB_	Alignment		99.9	16	PDB header: biosynthetic protein Chain: B: PDB Molecule: putative non-ribosomal peptide synthetase; PDBTitle: complex of oxa with the x-domain from gpa biosynthesis
16	c4jn3B_	Alignment		99.9	12	PDB header: biosynthetic protein Chain: B: PDB Molecule: cda peptide synthetase i; PDBTitle: crystal structures of the first condensation domain of the cda2 synthetase
17	c1l5aA_	Alignment		99.9	12	PDB header: biosynthetic protein Chain: A: PDB Molecule: amide synthase; PDBTitle: crystal structure of vibh, an nrps condensation enzyme
18	c5ja2A_	Alignment		99.9	14	PDB header: ligase Chain: A: PDB Molecule: enterobactin synthase component f; PDBTitle: entf, a terminal nonribosomal peptide synthetase module bound to the2 non-native mbth-like protein pa2412
19	c6ozvA_	Alignment		99.9	20	PDB header: biosynthetic protein Chain: A: PDB Molecule: txo1; PDBTitle: the structure of condensation and adenylation domains of teixobactin-2 producing nonribosomal peptide synthetase txo1 serine module in3 complex with amp
20	c4tx3B_	Alignment		99.9	12	PDB header: oxidoreductase Chain: B: PDB Molecule: peptide synthetase, module 7; PDBTitle: complex of the x-domain and oxyb from teicoplanin biosynthesis
21	c5u89A_	Alignment	not modelled	99.9	15	PDB header: hydrolase/inhibitor Chain: A: PDB Molecule: amino acid adenylation domain protein; PDBTitle: crystal structure of a cross-module fragment from the dimodular nrps2 dhbf
22	c4hvmC_	Alignment	not modelled	99.9	14	PDB header: biosynthetic protein Chain: C: PDB Molecule: tlmii; PDBTitle: crystal structure of tallsomycin biosynthesis protein tlmii
23	c2jgpA_	Alignment	not modelled	99.9	10	PDB header: ligase Chain: A: PDB Molecule: tyrocidine synthetase 3; PDBTitle: structure of the tycc5-6 pcp-c bidomain of the tyrocidine synthetase2 tycc
24	c5dijA_	Alignment	not modelled	99.9	11	PDB header: unknown function Chain: A: PDB Molecule: tgaa; PDBTitle: the crystal structure of ct
25	c1q9jA_	Alignment	not modelled	99.9	16	PDB header: ligase Chain: A: PDB Molecule: polyketide synthase associated protein 5; PDBTitle: structure of polyketide synthase associated protein 5 from2 mycobacterium tuberculosis
26	d1l5aa1	Alignment	not modelled	99.8	14	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: NRPS condensation domain (amide synthase)
27	c3fotA_	Alignment	not modelled	99.8	9	PDB header: transferase Chain: A: PDB Molecule: 15-o-acetyltransferase; PDBTitle: structural and functional characterization of tri3 trichothece 15-o-2 acetyltransferase from fusarium sporotrichioides
28	d1q9ja1	Alignment	not modelled	99.7	14	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: NRPS condensation domain (amide synthase)
						PDB header: transferase

29	c6dd2A_	Alignment	not modelled	99.5	10	Chain: A: PDB Molecule: probable hydroxycinnamoyl transferase; PDBTitle: crystal structure of selaginella moellendorffii hct
30	c4g0bA_	Alignment	not modelled	99.4	10	PDB header: transferase Chain: A: PDB Molecule: hydroxycinnamoyl-coa shikimate/quinate PDBTitle: structure of native hct from coffea canephora
31	c2bghA_	Alignment	not modelled	99.1	8	PDB header: transferase Chain: A: PDB Molecule: vinorine synthase; PDBTitle: crystal structure of vinorine synthase
32	c2e1uA_	Alignment	not modelled	99.0	12	PDB header: transferase Chain: A: PDB Molecule: acyl transferase; PDBTitle: crystal structure of dendranthema morifolium dmat
33	c2xr7A_	Alignment	not modelled	99.0	11	PDB header: transferase Chain: A: PDB Molecule: malonyltransferase; PDBTitle: crystal structure of nicotiana tabacum malonyltransferase (ntmat1)2 complexed with malonyl-coa
34	c4ke4A_	Alignment	not modelled	98.7	15	PDB header: transferase Chain: A: PDB Molecule: hydroxycinnamoyl-coa:shikimate hydroxycinnamoyl PDBTitle: elucidation of the structure and reaction mechanism of sorghum bicolor2 hydroxycinnamoyltransferase and its structural relationship to other3 coa-dependent transferases and synthases
35	c3b2sA_	Alignment	not modelled	98.5	13	PDB header: transferase Chain: A: PDB Molecule: trichothecene 3-o-acetyltransferase; PDBTitle: crystal structure of f. graminearum tri101 complexed with coenzyme a2 and deoxynivalenol
36	c2zbaD_	Alignment	not modelled	98.3	12	PDB header: transferase Chain: D: PDB Molecule: trichothecene 3-o-acetyltransferase; PDBTitle: crystal structure of f. sporotrichoides tri101 complexed with2 coenzyme a and t-2
37	c6eqoB_	Alignment	not modelled	97.5	13	PDB header: oxidoreductase Chain: B: PDB Molecule: acetyl-coenzyme a synthetase; PDBTitle: tri-functional propionyl-coa synthase of erythro bacter sp. nap1 with2 bound nadp+ and phosphomethylphosphonic acid adenylate ester
38	c3rqcB_	Alignment	not modelled	88.9	20	PDB header: transferase Chain: B: PDB Molecule: probable lipoamide acyltransferase; PDBTitle: crystal structure of the catalytic core of the 2-oxoacid dehydrogenase2 multienzyme complex from thermoplasma acidophilum
39	d3claa_	Alignment	not modelled	78.7	14	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: CAT-like
40	d1q23a_	Alignment	not modelled	75.0	13	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: CAT-like
41	c2i9dC_	Alignment	not modelled	71.8	15	PDB header: transferase Chain: C: PDB Molecule: chloramphenicol acetyltransferase; PDBTitle: chloramphenicol acetyltransferase
42	c3maeA_	Alignment	not modelled	66.6	18	PDB header: transferase Chain: A: PDB Molecule: 2-oxoisovalerate dehydrogenase e2 component, PDBTitle: crystal structure of probable dihydrolipoamide acetyltransferase from2 listeria monocytogenes 4b f2365
43	c6h60A_	Alignment	not modelled	63.9	9	PDB header: oxidoreductase Chain: A: PDB Molecule: pyruvate dehydrogenase protein x component, mitochondrial; PDBTitle: pseudo-atomic structural model of the e3bp component of the human2 pyruvate dehydrogenase multienzyme complex
44	d1scza_	Alignment	not modelled	39.9	17	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: CAT-like
45	d1bw6a_	Alignment	not modelled	28.8	13	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Centromere-binding
46	d1myla_	Alignment	not modelled	14.1	22	Fold: Ribbon-helix-helix Superfamily: Ribbon-helix-helix Family: Arc/Mnt-like phage repressors
47	d1l5aa2	Alignment	not modelled	12.6	6	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: NRPS condensation domain (amide synthase)
48	d1b28a_	Alignment	not modelled	12.0	22	Fold: Ribbon-helix-helix Superfamily: Ribbon-helix-helix Family: Arc/Mnt-like phage repressors
49	c3b8kA_	Alignment	not modelled	9.4	7	PDB header: transferase Chain: A: PDB Molecule: dihydrolipoyllysine-residue acetyltransferase; PDBTitle: structure of the truncated human dihydrolipoyl acetyltransferase (e2)
50	c1y9qA_	Alignment	not modelled	9.3	0	PDB header: transcription regulator Chain: A: PDB Molecule: transcriptional regulator, hth_3 family; PDBTitle: crystal structure of hth_3 family transcriptional regulator2 from vibrio cholerae
51	d1tlua1	Alignment	not modelled	8.5	10	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: Choline/Carnitine O-acyltransferase
52	d1e0ga_	Alignment	not modelled	8.0	7	Fold: LysM domain Superfamily: LysM domain Family: LysM domain
53	d1b5sa_	Alignment	not modelled	7.8	22	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: CAT-like
						Fold: Histone-fold

54	d1h3oa_	Alignment	not modelled	7.5	0	Superfamily: Histone-fold Family: TBP-associated factors, TAFs
55	c1h3oA_	Alignment	not modelled	7.5	0	PDB header: transcription/tpb-associated factors Chain: A: PDB Molecule: transcription initiation factor tfiid 135 kda subunit; PDBTitle: crystal structure of the human taf4-taf12 (tafi135-tafii20) complex
56	d1y7ma2	Alignment	not modelled	7.3	7	Fold: LysM domain Superfamily: LysM domain Family: LysM domain
57	d1i2va_	Alignment	not modelled	7.2	40	Fold: Knottins (small inhibitors, toxins, lectins) Superfamily: Scorpion toxin-like Family: Insect defensins
58	d1ozza_	Alignment	not modelled	7.2	40	Fold: Knottins (small inhibitors, toxins, lectins) Superfamily: Scorpion toxin-like Family: Insect defensins
59	d1mylb_	Alignment	not modelled	6.9	24	Fold: Ribbon-helix-helix Superfamily: Ribbon-helix-helix Family: Arc/Mnt-like phage repressors
60	d1hlva1	Alignment	not modelled	6.7	13	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Centromere-binding
61	c3kk4B_	Alignment	not modelled	6.7	22	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein bp1543; PDBTitle: uncharacterized protein bp1543 from bordetella pertussis tohama i
62	c2elhA_	Alignment	not modelled	6.4	20	PDB header: dna binding protein Chain: A: PDB Molecule: cg11849-pa; PDBTitle: solution structure of the cenp-b n-terminal dna-binding2 domain of fruit fly distal antenna cg11849-pa
63	c2ltuA_	Alignment	not modelled	5.6	13	PDB header: transferase Chain: A: PDB Molecule: 5'-amp-activated protein kinase catalytic subunit alpha-2; PDBTitle: solution structure of autoinhibitory domain of human amp-activated2 protein kinase catalytic subunit
64	d1xl7a1	Alignment	not modelled	5.5	12	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: Choline/Carnitine O-acyltransferase
65	c3ceca_	Alignment	not modelled	5.5	10	PDB header: transcription Chain: A: PDB Molecule: putative antidote protein of plasmid maintenance system; PDBTitle: crystal structure of a putative antidote protein of plasmid2 maintenance system (npun_f2943) from nostoc punctiforme pcc 73102 at3 1.60 a resolution
66	c3hugA_	Alignment	not modelled	5.5	7	PDB header: transcription/membrane protein Chain: A: PDB Molecule: rna polymerase sigma factor; PDBTitle: crystal structure of mycobacterium tuberculosis anti-sigma factor rsla2 in complex with -35 promoter binding domain of sigl
67	d1b0na2	Alignment	not modelled	5.4	22	Fold: lambda repressor-like DNA-binding domains Superfamily: lambda repressor-like DNA-binding domains Family: SinR domain-like