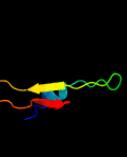


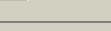
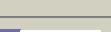
Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD1606_(hisl)_1805660_1806007
Date	Fri Aug 2 13:30:19 BST 2019
Unique Job ID	51541a436d9eec24

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1zpsa1	Alignment		100.0	53	Fold: Hisl-like Superfamily: Hisl-like Family: Hisl-like
2	d1m4ka2	Alignment		59.4	11	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
3	d1ulva4	Alignment		58.9	19	Fold: Supersandwich Superfamily: Galactose mutarotase-like Family: Bacterial glucoamylase N-terminal domain-like
4	d1nkra2	Alignment		55.6	12	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
5	d1lf6a2	Alignment		50.9	8	Fold: Supersandwich Superfamily: Galactose mutarotase-like Family: Bacterial glucoamylase N-terminal domain-like
6	c5lp4A_	Alignment		37.8	18	PDB header: hydrolase/antibiotic Chain: A: PDB Molecule: penicillin-binding protein 2 (pbp2); PDBTitle: penicillin-binding protein (pbp2) from helicobacter pylori
7	c4avrA_	Alignment		31.1	24	PDB header: unknown function Chain: A: PDB Molecule: pa4485; PDBTitle: crystal structure of the hypothetical protein pa4485 from 2 pseudomonas aeruginosa
8	d1j3ea_	Alignment		30.8	16	Fold: Replication modulator SeqA, C-terminal DNA-binding domain Superfamily: Replication modulator SeqA, C-terminal DNA-binding domain Family: Replication modulator SeqA, C-terminal DNA-binding domain
9	c4mnra_	Alignment		29.5	33	PDB header: transferase Chain: A: PDB Molecule: peptidoglycan glycosyltransferase; PDBTitle: crystal structure of d,d-transpeptidase domain of peptidoglycan2 glycosyltransferase from eggerthella lenta
10	c1qmfA_	Alignment		28.8	17	PDB header: cell cycle Chain: A: PDB Molecule: penicillin-binding protein 2x; PDBTitle: penicillin-binding protein 2x (pbp-2x) acyl-enzyme complex
11	d1pyya4	Alignment		28.6	18	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase

12	c4ovdA	Alignment		25.6	14	PDB header: transferase Chain: A: PDB Molecule: peptidoglycan glycosyltransferase; PDBTitle: crystal structure of a putative peptidoglycan glycosyltransferase from <i>atopobium parvulum</i> dsm 20469
13	d2afja1	Alignment		24.3	16	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: SPRY domain
14	c3equB	Alignment		22.4	23	PDB header: biosynthetic protein Chain: B: PDB Molecule: penicillin-binding protein 2; PDBTitle: crystal structure of penicillin-binding protein 2 from <i>neisseria gonorrhoeae</i>
15	c4eskA	Alignment		21.8	20	PDB header: immune system Chain: A: PDB Molecule: leukocyte-associated immunoglobulin-like receptor 1; PDBTitle: crystal structure of a strand-swapped dimer of mouse leukocyte-2 associated immunoglobulin-like receptor 1 (nysgrc-006047)ig-like3 domain
16	d2fnja1	Alignment		19.7	18	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: SPRY domain
17	d1k25a4	Alignment		19.7	24	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
18	c6bsrA	Alignment		19.3	20	PDB header: hydrolase Chain: A: PDB Molecule: pbp4 protein; PDBTitle: crystal structure of penicillin-binding protein 4 (pbp4) from <i>enterococcus faecalis</i> in the benzylpenicillin bound form.
19	c4jbfB	Alignment		18.8	23	PDB header: transferase Chain: B: PDB Molecule: peptidoglycan glycosyltransferase; PDBTitle: crystal structure of peptidoglycan glycosyltransferase from <i>atopobium2 parvulum</i> dsm 20469.
20	c5crfA	Alignment		16.9	24	PDB header: penicillin-binding protein Chain: A: PDB Molecule: penicillin-binding protein 1a; PDBTitle: structure of the penicillin-binding protein pona1 from <i>mycobacterium2 tuberculosis</i>
21	c5uy7A	Alignment	not modelled	16.9	31	PDB header: transferase Chain: A: PDB Molecule: peptidoglycan glycosyltransferase; PDBTitle: crystal structure of a peptidoglycan glycosyltransferase from <i>burkholderia ambifaria</i>
22	c1mwuA	Alignment	not modelled	16.9	17	PDB header: biosynthetic protein Chain: A: PDB Molecule: penicillin-binding protein 2a; PDBTitle: structure of methicillin acyl-penicillin binding protein 2a from 2 methicillin resistant <i>staphylococcus aureus</i> strain 27r at 2.60 a3 resolution.
23	d2od6a1	Alignment	not modelled	16.9	40	Fold: Ferrodoxin-like Superfamily: Dimeric alpha+beta barrel Family: Marine metagenome family DABB1
24	d1m4ka1	Alignment	not modelled	15.8	18	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
25	c6g9fA	Alignment	not modelled	15.5	29	PDB header: hydrolase/antibiotic Chain: A: PDB Molecule: peptidoglycan d,d-transpeptidase mrdA; PDBTitle: structural basis for the inhibition of <i>e. coli</i> pbp2
26	d1nkra1	Alignment	not modelled	13.8	9	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
27	c5dvyA	Alignment	not modelled	13.4	23	PDB header: penicillin-binding protein Chain: A: PDB Molecule: penicillin binding protein 2 prime; PDBTitle: 2.95 angstrom crystal structure of the dimeric form of penicillin2 binding protein 2 prime from <i>enterococcus faecium</i>
28	d2ahme1	Alignment	not modelled	13.0	25	Fold: Coronavirus NSP8-like Superfamily: Coronavirus NSP8-like Family: Coronavirus NSP8-like
						PDB header: transferase

29	c3lo7A_		Alignment	not modelled	12.3	25	Chain: A: PDB Molecule: penicillin-binding protein a; PDBTitle: crystal structure of pbpa from mycobacterium tuberculosis
30	d2dl2a1		Alignment	not modelled	12.2	18	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: l set domains
31	c3ue3A_		Alignment	not modelled	12.0	25	PDB header: transferase Chain: A: PDB Molecule: septum formation, penicillin binding protein 3, PDBTitle: crystal structure of acinetobacter baumannii pbp3
32	c3loeA_		Alignment	not modelled	11.7	29	PDB header: antimicrobial protein Chain: A: PDB Molecule: neutrophil defensin 1; PDBTitle: crystal structure of human alpha-defensin 1 (f28a mutant)
33	d2cqaa1		Alignment	not modelled	11.5	11	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: TIP49 domain
34	c2olvA_		Alignment	not modelled	11.4	18	PDB header: transferase Chain: A: PDB Molecule: penicillin-binding protein 2; PDBTitle: structural insight into the transglycosylation step of bacterial cell wall biosynthesis : donor ligand complex
35	c3gnyA_		Alignment	not modelled	11.4	29	PDB header: antimicrobial protein Chain: A: PDB Molecule: neutrophil defensin 1; PDBTitle: crystal structure of human alpha-defensin 1 (hnp1)
36	d1axib1		Alignment	not modelled	11.2	27	Fold: Immunoglobulin-like beta-sandwich Superfamily: Fibronectin type III Family: Fibronectin type III
37	d1ex4a1		Alignment	not modelled	10.7	42	Fold: SH3-like barrel Superfamily: DNA-binding domain of retroviral integrase Family: DNA-binding domain of retroviral integrase
38	d2f09a1		Alignment	not modelled	10.4	14	Fold: Streptavidin-like Superfamily: YdhA-like Family: YdhA-like
39	c1ug9A_		Alignment	not modelled	10.3	19	PDB header: hydrolase Chain: A: PDB Molecule: glucodextranase; PDBTitle: crystal structure of glucodextranase from arthrobacter globiformis i42
40	c5gmkl_		Alignment	not modelled	10.2	71	PDB header: rna binding protein/rna Chain: J: PDB Molecule: pre-mrna-splicing factor cwc21; PDBTitle: cryo-em structure of the catalytic step i spliceosome (c complex) at 2.3.4 angstrom resolution
41	c3hj2B_		Alignment	not modelled	10.1	29	PDB header: antimicrobial protein Chain: B: PDB Molecule: human neutrophil peptide 1; PDBTitle: crystal structure of covalent dimer of hnp1
42	c2ahmG_		Alignment	not modelled	9.9	25	PDB header: viral protein, replication Chain: G: PDB Molecule: replicase polyprotein 1ab, heavy chain; PDBTitle: crystal structure of sars-cov super complex of non-structural2 proteins: the hexadecamer
43	c5u47A_		Alignment	not modelled	9.7	17	PDB header: lipid-binding protein Chain: A: PDB Molecule: penicillin binding protein 2x; PDBTitle: 1.95 angstrom resolution crystal structure of penicillin binding2 protein 2x from streptococcus thermophilus
44	c3ub0D_		Alignment	not modelled	9.7	23	PDB header: replication Chain: D: PDB Molecule: non-structural protein 6, nsp6; ; PDBTitle: crystal structure of the nonstructural protein 7 and 8 complex of2 feline coronavirus
45	d1pjua2		Alignment	not modelled	9.6	28	Fold: Plant proteinase inhibitors Superfamily: Plant proteinase inhibitors Family: Plant proteinase inhibitors
46	c2jtdA_		Alignment	not modelled	9.4	5	PDB header: cell adhesion Chain: A: PDB Molecule: myomesin-1; PDBTitle: skelemin immunoglobulin c2 like domain 4
47	c5ewoA_		Alignment	not modelled	9.3	22	PDB header: viral protein Chain: A: PDB Molecule: structural protein; PDBTitle: crystal structure of the human astrovirus 1 capsid protein spike2 domain at 0.95-a resolution
48	c6ni0A_		Alignment	not modelled	9.2	21	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the beta lactamase class d ybxi from burkholderia2 thailandensis
49	c3pbna_		Alignment	not modelled	9.0	17	PDB header: hydrolase/antibiotic Chain: A: PDB Molecule: penicillin-binding protein 3; PDBTitle: crystal structure of apo pbp3 from pseudomonas aeruginosa
50	d1ugna2		Alignment	not modelled	8.7	9	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: l set domains
51	c3dwkC_		Alignment	not modelled	8.6	18	PDB header: transferase Chain: C: PDB Molecule: penicillin-binding protein 2; PDBTitle: identification of dynamic structural motifs involved in2 peptidoglycan glycosyltransfer
52	c4bjpA_		Alignment	not modelled	8.6	21	PDB header: transferase Chain: A: PDB Molecule: penicillin binding protein transpeptidase domain protein; PDBTitle: crystal structure of e. coli penicillin binding protein 3
53	d2jnwa1		Alignment	not modelled	8.6	45	Fold: Restriction endonuclease-like Superfamily: Restriction endonuclease-like Family: XPF/Rad1/Mus81 nuclease
54	c3lo7B_		Alignment	not modelled	8.4	25	PDB header: transferase Chain: B: PDB Molecule: penicillin-binding protein a; PDBTitle: crystal structure of pbpa from mycobacterium tuberculosis
55	d1vgqa3		Alignment	not modelled	8.4	13	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase

56	d1rp5a4		Alignment	not modelled	8.2	24	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-alanine carboxypeptidase
57	d2a1ia1		Alignment	not modelled	8.2	45	Fold: Restriction endonuclease-like Superfamily: Restriction endonuclease-like Family: XPF/Rad1/Mus81 nuclease
58	d2c5wb1		Alignment	not modelled	8.2	18	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-alanine carboxypeptidase
59	c5iznH_		Alignment	not modelled	8.2	19	PDB header: ribosomal protein Chain: H: PDB Molecule: 50S ribosomal protein I25; PDBTitle: the crystal structure of 50S ribosomal protein I25 from <i>vibrio2 vulnificus</i> cmcp6
60	d1wjka_		Alignment	not modelled	8.1	22	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Thioltransferase
61	d2z3qa1		Alignment	not modelled	8.0	27	Fold: 4-helical cytokines Superfamily: 4-helical cytokines Family: Short-chain cytokines
62	c3zg8B_		Alignment	not modelled	7.7	29	PDB header: penicillin-binding protein Chain: B: PDB Molecule: penicillin-binding protein 4; PDBTitle: crystal structure of penicillin binding protein 4 from <i>listeria monocytogenes</i> in the ampicillin bound form
63	d1y0ga_		Alignment	not modelled	7.7	18	Fold: Streptavidin-like Superfamily: Ycel-like Family: Ycel-like
64	c4ye5A_		Alignment	not modelled	7.6	53	PDB header: penicillin binding protein Chain: A: PDB Molecule: peptidoglycan synthetase penicillin-binding protein 3; PDBTitle: the crystal structure of a peptidoglycan synthetase from <i>2 bifidobacterium adolescentis</i> atcc 15703
65	d1v0aa1		Alignment	not modelled	7.3	8	Fold: Galactose-binding domain-like Superfamily: Galactose-binding domain-like Family: CBM11
66	d2olu2		Alignment	not modelled	7.3	12	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-alanine carboxypeptidase
67	d1ucta2		Alignment	not modelled	7.2	18	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
68	d3b5ha2		Alignment	not modelled	7.1	26	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
69	d1k38a_		Alignment	not modelled	7.1	30	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-alanine carboxypeptidase
70	c3vsIB_		Alignment	not modelled	7.1	41	PDB header: penicillin-binding protein Chain: B: PDB Molecule: penicillin-binding protein 3; PDBTitle: crystal structure of penicillin-binding protein 3 (pbp3) from <i>2 methicillin-resistant staphylococcus aureus</i> in the cefotaxime bound3 form.
71	c1lux6A_		Alignment	not modelled	7.0	29	PDB header: cell adhesion Chain: A: PDB Molecule: thrombospondin-1; PDBTitle: structure of a thrombospondin c-terminal fragment reveals a novel2 calcium core in the type 3 repeats
72	c4ht4A_		Alignment	not modelled	7.0	22	PDB header: hydrolase/dna Chain: A: PDB Molecule: nicking enzyme; PDBTitle: molecular basis of vancomycin resistance transfer in <i>staphylococcus2 aureus</i>
73	d1lux6a1		Alignment	not modelled	6.7	29	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: Thrombospondin C-terminal domain
74	c3sk7B_		Alignment	not modelled	6.6	10	PDB header: replication inhibitor Chain: B: PDB Molecule: protein seqa; PDBTitle: crystal structure of <i>v. cholerae</i> seqa
75	c3hpeB_		Alignment	not modelled	6.6	17	PDB header: transport protein Chain: B: PDB Molecule: conserved hypothetical secreted protein; PDBTitle: crystal structure of <i>ycei</i> (hp1286) from helicobacter pylori
76	d1tocr1		Alignment	not modelled	6.6	32	Fold: BPTI-like Superfamily: BPTI-like Family: Soft tick anticoagulant proteins
77	c3ukwC_		Alignment	not modelled	6.5	43	PDB header: protein transport/inhibitor Chain: C: PDB Molecule: bimax1 peptide; PDBTitle: mouse importin alpha: bimax1 peptide complex
78	c5kouB_		Alignment	not modelled	6.5	11	PDB header: viral protein Chain: B: PDB Molecule: capsid polyprotein vp25; PDBTitle: crystal structure of the human astrovirus 2 capsid protein spike2 domain at 1.87-a resolution
79	d2dlxa1		Alignment	not modelled	6.4	6	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: UAS domain
80	c5lj3R_		Alignment	not modelled	6.4	71	PDB header: splicing Chain: R: PDB Molecule: pre-mrna-splicing factor cwc21; PDBTitle: structure of the core of the yeast spliceosome immediately after2 branching
81	d1jlxa1		Alignment	not modelled	6.3	16	Fold: beta-Trefoil Superfamily: Agglutinin Family: Agglutinin
82	c3o62A		Alignment	not modelled	6.3	15	PDB header: penicillin-binding protein Chain: A: PDB Molecule: penicillin-binding protein 3;

82	c50z2M	Alignment	not modelled	6.5	15	PDBTitle: crystal structure of penicillin-binding protein 3 from <i>pseudomonas2 aeruginosa</i> PDB header: cell adhesion Chain: A: PDB Molecule: thrombospondin-2; PDBTitle: structure of the c-terminal domain of human thrombospondin-2
83	c1yo8A	Alignment	not modelled	6.3	29	PDB header: peptide binding protein Chain: B: PDB Molecule: penicillin-binding protein 2b; PDBTitle: penicillin-binding protein 2b (pbp-2b) from <i>streptococcus2 pneumoniae</i> (strain 5204)
84	c2wadB	Alignment	not modelled	6.2	35	PDB header: lectin Chain: B: PDB Molecule: agglutinin; PDBTitle: agglutinin in complex with t-disaccharide
85	c1jlxB	Alignment	not modelled	6.1	11	PDB header: hydrolase Chain: A: PDB Molecule: rvb-like protein 2; PDBTitle: nmr solution structure of the external d1i domain of rvb2 from <i>saccharomyces cerevisiae</i>
86	c5ounA	Alignment	not modelled	5.9	14	PDB header: replication inhibitor/dna Chain: F: PDB Molecule: protein seqa; PDBTitle: crystal structure of seqa bound to dna
87	c3fmtF	Alignment	not modelled	5.9	13	Fold: SH3-like barrel Superfamily: DNA-binding domain of retroviral integrase Family: DNA-binding domain of retroviral integrase
88	d1ihwa	Alignment	not modelled	5.9	42	PDB header: cell adhesion Chain: C: PDB Molecule: cartilage oligomeric matrix protein; PDBTitle: the crystal structure of the signature domain of cartilage oligomeric2 matrix protein.
89	c3fbfC	Alignment	not modelled	5.8	21	Fold: immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: l set domains
90	d2dydpd2	Alignment	not modelled	5.8	18	PDB header: toxin Chain: A: PDB Molecule: hs1a; PDBTitle: solution structure of spider-venom peptide hs1a
91	c2mt7A	Alignment	not modelled	5.7	40	PDB header: rna binding protein Chain: K: PDB Molecule: pre-mrna-splicing factor cwc21; PDBTitle: s. cerevisiae spliceosomal post-catalytic p complex
92	c6bk8K	Alignment	not modelled	5.5	71	PDB header: peptidoglycan synthesis Chain: A: PDB Molecule: peptidoglycan synthesis multifunctional enzyme; PDBTitle: penicillin-binding protein 2x (pbp-2x)
93	c1pmda	Alignment	not modelled	5.4	20	PDB header: hydrolyase Chain: B: PDB Molecule: tk-subtilisin; PDBTitle: crystal structure of g56s-propeptide:s324a-subtilisin complex
94	c2z56B	Alignment	not modelled	5.3	36	PDB header: calcium binding protein Chain: B: PDB Molecule: ryanodine receptor 1; PDBTitle: crystal structure of calmodulin in complex with a ryanodine receptor2 peptide
95	c2bcxB	Alignment	not modelled	5.3	33	PDB header: Ribosomal protein L25-like Superfamily: Ribosomal protein L25-like Family: Ribosomal protein L25-like
96	d1dfup	Alignment	not modelled	5.3	6	PDB header: structural protein Chain: B: PDB Molecule: retinoblastoma-binding protein 5; PDBTitle: structure of the rbbp5 beta-propeller domain
97	c5ov3B	Alignment	not modelled	5.2	14	PDB header: viral protein/immune system Chain: A: PDB Molecule: hemagglutinin; PDBTitle: influenza b/florida/4/2006 hemagglutinin fab cr8071 complex
98	c4fqjA	Alignment	not modelled	5.2	33	PDB header: dna binding protein Chain: A: PDB Molecule: dna repair protein pp4; PDBTitle: crystal structure of pp4 from <i>deinococcus radiodurans</i>
99	c6bduA	Alignment	not modelled	5.1	44	PDB header: structural protein Chain: B: PDB Molecule: retinoblastoma-binding protein 5; PDBTitle: structure of the rbbp5 beta-propeller domain