

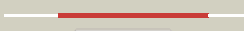
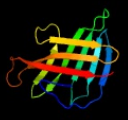







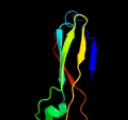





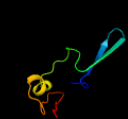

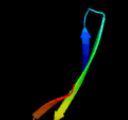




Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1881c_(lppE)_2131914_2132336
Date	Fri Aug 2 13:30:49 BST 2019
Unique Job ID	c609a97bafd39f9a

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4xinB_	 Alignment		100.0	28	PDB header: unknown function Chain: B: PDB Molecule: lpqh orthologue; PDBTitle: x-ray crystal structure of an lpqh orthologue from mycobacterium avium
2	c4zjmA_	 Alignment		100.0	23	PDB header: unknown function Chain: A: PDB Molecule: lipoprotein lpqh; PDBTitle: crystal structure of mycobacterium tuberculosis lpqh (rv3763)
3	d1h4ga_	 Alignment		42.3	25	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: Xylanase/endoglucanase 11/12
4	d1hixa_	 Alignment		39.7	22	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: Xylanase/endoglucanase 11/12
5	d1m4wa_	 Alignment		39.6	19	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: Xylanase/endoglucanase 11/12
6	c3uafA_	 Alignment		35.9	14	PDB header: protein binding Chain: A: PDB Molecule: ttr-52; PDBTitle: crystal structure of a ttr-52 mutant of c. elegans
7	c3wp6A_	 Alignment		35.7	22	PDB header: hydrolase Chain: A: PDB Molecule: cdbfv; PDBTitle: the complex structure of cdbfv e109a with xylotriase
8	d1xnka1	 Alignment		28.8	31	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: Xylanase/endoglucanase 11/12
9	c217yA_	 Alignment		27.4	10	PDB header: structural protein Chain: A: PDB Molecule: putative endo-beta-n-acetylglucosaminidase; PDBTitle: solution structure of a putative surface protein
10	c4uznA_	 Alignment		25.7	31	PDB header: hydrolase Chain: A: PDB Molecule: endo-beta-1,4-glucanase (celulase b); PDBTitle: the native structure of the family 46 carbohydrate-binding2 module (cbm46) of endo-beta-1,4-glucanase b (cel5b) from3 bacillus halodurans
11	c2vu1A_	 Alignment		22.5	25	PDB header: hydrolase Chain: A: PDB Molecule: gh11 xylanase; PDBTitle: thermostable mutant of environmentally isolated gh112 xylanase

12	c1vraA_	Alignment		20.3	31	PDB header: transferase Chain: A: PDB Molecule: arginine biosynthesis bifunctional protein argj; PDBTitle: crystal structure of arginine biosynthesis bifunctional protein argj2 (10175521) from bacillus halodurans at 2.00 a resolution
13	d1ynaa_	Alignment		19.6	25	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: Xylanase/endoglucanase 11/12
14	c3mn8A_	Alignment		19.0	18	PDB header: hydrolase Chain: A: PDB Molecule: lp15968p; PDBTitle: structure of drosophila melanogaster carboxypeptidase d isoform 1b2 short
15	c1uwya_	Alignment		17.7	12	PDB header: hydrolase Chain: A: PDB Molecule: carboxypeptidase m; PDBTitle: crystal structure of human carboxypeptidase m
16	c4f5cF_	Alignment		15.9	16	PDB header: hydrolase/viral protein Chain: F: PDB Molecule: prcv spike protein; PDBTitle: crystal structure of the spike receptor binding domain of a porcine2 respiratory coronavirus in complex with the pig aminopeptidase n3 ectodomain
17	c5vqjA_	Alignment		15.8	23	PDB header: hydrolase Chain: A: PDB Molecule: exo-beta-1,4-xylanase; PDBTitle: discovery of a first gh11 exo-1,4-beta-xylanase from a diverse2 microbial sugar cane bagasse composting community
18	c4q98A_	Alignment		14.8	13	PDB header: cell adhesion Chain: A: PDB Molecule: major fimbrial subunit protein; PDBTitle: crystal structure of a fimbriin (fima) from porphyromonas gingivalis2 w83 at 1.30 a resolution (psi community target, nakayama)
19	c6qt9Y_	Alignment		14.2	24	PDB header: virus Chain: Y: PDB Molecule: orf 31; PDBTitle: cryo-em structure of sh1 full particle.
20	c2dcjA_	Alignment		13.0	22	PDB header: hydrolase Chain: A: PDB Molecule: xylanase j; PDBTitle: a two-domain structure of alkaliphilic xynj from bacillus sp. 41m-1
21	c5o6vC_	Alignment	not modelled	12.2	12	PDB header: virus Chain: C: PDB Molecule: envelope protein; PDBTitle: the cryo-em structure of tick-borne encephalitis virus complexed with2 fab fragment of neutralizing antibody 19/1786
22	d1pvxa_	Alignment	not modelled	12.0	25	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: Xylanase/endoglucanase 11/12
23	d2dfba1	Alignment	not modelled	12.0	18	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: Xylanase/endoglucanase 11/12
24	d1te1b_	Alignment	not modelled	11.1	25	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: Xylanase/endoglucanase 11/12
25	d1uwya1	Alignment	not modelled	10.9	12	Fold: Prealbumin-like Superfamily: Carboxypeptidase regulatory domain-like Family: Carboxypeptidase regulatory domain
26	c4v2xA_	Alignment	not modelled	10.8	22	PDB header: hydrolase Chain: A: PDB Molecule: endo-beta-1,4-glucanase (cellulase b); PDBTitle: high resolution structure of the full length tri-modular2 endo-beta-1,4-glucanase b (cel5b) from bacillus halodurans
27	d1svba2	Alignment	not modelled	10.7	14	Fold: Viral glycoprotein, central and dimerisation domains Superfamily: Viral glycoprotein, central and dimerisation domains Family: Viral glycoprotein, central and dimerisation domains
28	d1ljma_	Alignment	not modelled	10.6	28	Fold: Common fold of diphtheria toxin/transcription factors/cytochrome f Superfamily: p53-like transcription factors Family: RUNT domain
29	c3mxB	Alignment	not modelled	10.1	20	PDB header: replication Chain: B: PDB Molecule: recq-mediated genome instability protein

29	c3mx1b	Alignment	not modelled	10.1	20	PDBTitle: crystal structure of the rmi core complex
30	c5xxzB	Alignment	not modelled	10.0	11	PDB header: lyase Chain: B: PDB Molecule: chemokine protease c; PDBTitle: crystal structure of a serine protease from streptococcus species
31	c4m03A	Alignment	not modelled	9.6	15	PDB header: calcium binding protein Chain: A: PDB Molecule: serine-rich adhesin for platelets; PDBTitle: c-terminal fragment(residues 576-751) of binding region of srap
32	c2g16A	Alignment	not modelled	9.0	20	PDB header: luminescent protein Chain: A: PDB Molecule: green fluorescent protein; PDBTitle: structure of s65a y66s gfp variant after backbone2 fragmentation
33	c3ls1A	Alignment	not modelled	8.5	21	PDB header: photosynthesis Chain: A: PDB Molecule: sl1638 protein; PDBTitle: crystal structure of cyanobacterial psbq from synechocystis2 sp. pcc 6803 complexed with zn2+
34	d1ok8a2	Alignment	not modelled	8.3	6	Fold: Viral glycoprotein, central and dimerisation domains Superfamily: Viral glycoprotein, central and dimerisation domains Family: Viral glycoprotein, central and dimerisation domains
35	c1urzC	Alignment	not modelled	8.1	13	PDB header: virus/viral protein Chain: C: PDB Molecule: envelope protein; PDBTitle: low ph induced, membrane fusion conformation of the2 envelope protein of tick-borne encephalitis virus
36	c2ovsB	Alignment	not modelled	8.1	10	PDB header: gene regulation, ligand binding protein Chain: B: PDB Molecule: i0044; PDBTitle: crystal strcuture of a type three secretion system protein
37	d2go8a1	Alignment	not modelled	7.4	21	Fold: Ferredoxin-like Superfamily: Dimeric alpha+beta barrel Family: PG130-like
38	c1p58C	Alignment	not modelled	7.2	7	PDB header: virus Chain: C: PDB Molecule: major envelope protein e; PDBTitle: complex organization of dengue virus membrane proteins as revealed by2 9.5 angstrom cryo-em reconstruction
39	c4whiA	Alignment	not modelled	7.1	11	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of c-terminal domain of penicillin binding protein2 rv0907
40	c4m02A	Alignment	not modelled	6.7	13	PDB header: calcium binding protein Chain: A: PDB Molecule: serine-rich adhesin for platelets; PDBTitle: middle fragment(residues 494-663) of the binding region of srap
41	d1ee6a	Alignment	not modelled	6.6	17	Fold: Single-stranded right-handed beta-helix Superfamily: Pectin lyase-like Family: Pectate lyase-like
42	c6b6iD	Alignment	not modelled	6.6	31	PDB header: viral protein,protease Chain: D: PDB Molecule: 3c-like protease; PDBTitle: 2.4a resolution structure of human norovirus gii.4 protease
43	c3b90A	Alignment	not modelled	6.3	14	PDB header: lyase Chain: A: PDB Molecule: endo-pectate lyase; PDBTitle: crystal structure of the catalytic domain of pectate lyase peli from2 erwinia chrysanthemi
44	d1cwva2	Alignment	not modelled	6.2	19	Fold: Immunoglobulin-like beta-sandwich Superfamily: Invasin/intimin cell-adhesion fragments Family: Invasin/intimin cell-adhesion fragments
45	c2of6C	Alignment	not modelled	6.1	10	PDB header: virus Chain: C: PDB Molecule: envelope glycoprotein e; PDBTitle: structure of immature west Nile virus
46	d1xnda	Alignment	not modelled	5.7	20	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: Xylanase/endoglucanase 11/12
47	d1wv3a1	Alignment	not modelled	5.5	44	Fold: SMAD/FHA domain Superfamily: SMAD/FHA domain Family: EssC N-terminal domain-like
48	d1igoa	Alignment	not modelled	5.4	16	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: Xylanase/endoglucanase 11/12
49	c5u6fA	Alignment	not modelled	5.3	6	PDB header: cell adhesion Chain: A: PDB Molecule: lpxtg-motif cell wall anchor domain protein; PDBTitle: bacterial adhesin from mobiluncus mulieris containing intramolecular2 disulfide, isopeptide, and ester bond cross-links (space group p21)
50	c1ywkE	Alignment	not modelled	5.3	14	PDB header: isomerase Chain: E: PDB Molecule: 4-deoxy-l-threo-5-hexosulose-uronate ketol- PDBTitle: crystal structure of 4-deoxy-1-threo-5-hexosulose-uronate2 ketol-isomerase from enterococcus faecalis
51	d1oa3a	Alignment	not modelled	5.3	17	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: Xylanase/endoglucanase 11/12
52	d2jeka1	Alignment	not modelled	5.2	13	Fold: Rv1873-like Superfamily: Rv1873-like Family: Rv1873-like
53	c2c1fA	Alignment	not modelled	5.1	22	PDB header: hydrolase Chain: A: PDB Molecule: bifunctional endo-1,4-beta-xylanase a; PDBTitle: the structure of the family 11 xylanase from neocallimastix2 patriciarum
54	c1as5A	Alignment	not modelled	5.1	33	PDB header: neurotoxin Chain: A: PDB Molecule: conotoxin y-piie; PDBTitle: solution structure of conotoxin y-piie from conus2 purpurascens, nmr, 14 structures