

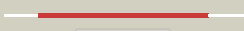





















Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1796_(mycP5)_2033736_2035493
Date	Fri Aug 2 13:30:40 BST 2019
Unique Job ID	aa40fa11a65891f4

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4j94A_	 Alignment		100.0	56	PDB header: hydrolase Chain: A: PDB Molecule: membrane-anchored mycosin mycp1; PDBTitle: crystal structure of mycp1 from the esx-1 type vii secretion system
2	d1r6va_	 Alignment		100.0	30	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
3	c4tr2A_	 Alignment		100.0	27	PDB header: hydrolase Chain: A: PDB Molecule: subtilisin-like 1 serine protease; PDBTitle: crystal structure of pvsu1
4	c4kg7A_	 Alignment		100.0	56	PDB header: hydrolase Chain: A: PDB Molecule: peptidase s8 and s53, subtilisin, kexin, sedolisin; PDBTitle: structure of mycp3 protease from the type vii (esx-3) secretion2 system.
5	c3vtaB_	 Alignment		100.0	30	PDB header: hydrolase Chain: B: PDB Molecule: cucumisin; PDBTitle: crystal structure of cucumisin, a subtilisin-like endoprotease from2 cucumis melo l
6	c3i74B_	 Alignment		100.0	33	PDB header: hydrolase/hydrolase inhibitor Chain: B: PDB Molecule: subtilisin-like protease; PDBTitle: crystal structure of the plant subtilisin-like protease sbt3 in2 complex with a chloromethylketone inhibitor
7	c2oxaA_	 Alignment		100.0	28	PDB header: hydrolase Chain: A: PDB Molecule: extracellular serine protease; PDBTitle: crystal structure of serine protease of aeromonas sobria
8	c5xyrA_	 Alignment		100.0	33	PDB header: lyase Chain: A: PDB Molecule: chemokine protease c; PDBTitle: crystal structure of a serine protease from streptococcus species
9	c5xxzB_	 Alignment		100.0	32	PDB header: lyase Chain: B: PDB Molecule: chemokine protease c; PDBTitle: crystal structure of a serine protease from streptococcus species
10	c6mw4A_	 Alignment		100.0	27	PDB header: signaling protein Chain: A: PDB Molecule: putative germination-specific protease; PDBTitle: structure of pseudoprotease cpsc from clostridioides difficile
11	c1xf1A_	 Alignment		100.0	32	PDB header: hydrolase Chain: A: PDB Molecule: c5a peptidase; PDBTitle: structure of c5a peptidase- a key virulence factor from2 streptococcus

12	c1p8jB_	Alignment		100.0	23	PDB header: hydrolase/hydrolase inhibitor Chain: B; PDB Molecule: furin precursor; PDBTitle: crystal structure of the proprotein convertase furin
13	c1r64A_	Alignment		100.0	21	PDB header: hydrolase/hydrolase inhibitor Chain: A; PDB Molecule: kexin; PDBTitle: the 2.2 a crystal structure of kex2 protease in complex with ac-arg-2 glu-lys-boroarg peptidyl boronic acid inhibitor
14	c3qfhE_	Alignment		100.0	26	PDB header: hydrolase Chain: E; PDB Molecule: epidermin leader peptide processing serine protease epip; PDBTitle: 2.05 angstrom resolution crystal structure of epidermin leader peptide2 processing serine protease (epip) from staphylococcus aureus.
15	c3t41B_	Alignment		100.0	26	PDB header: hydrolase Chain: B; PDB Molecule: epidermin leader peptide processing serine protease epip; PDBTitle: 1.95 angstrom resolution crystal structure of epidermin leader peptide2 processing serine protease (epip) s393a mutant from staphylococcus3 aureus
16	c5vlpA_	Alignment		100.0	31	PDB header: hydrolase Chain: A; PDB Molecule: proprotein convertase subtilisin/kexin type 9; PDBTitle: pcsk9 complex with ldlr antagonist peptide and fab7g7
17	c2pmwB_	Alignment		100.0	30	PDB header: hydrolase Chain: B; PDB Molecule: proprotein convertase subtilisin/kexin type 9; PDBTitle: the crystal structure of proprotein convertase subtilisin2 kexin type 9 (pcsk9)
18	c3bpsA_	Alignment		100.0	28	PDB header: hydrolase/lipid transport Chain: A; PDB Molecule: proprotein convertase subtilisin/kexin type 9; PDBTitle: pcsk9:egf-a complex
19	d1p8ja2	Alignment		100.0	22	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
20	c2iy9A_	Alignment		100.0	29	PDB header: toxin Chain: A; PDB Molecule: suba; PDBTitle: crystal structure of the a-subunit of the ab5 toxin from e.2 coli
21	c4i0wB_	Alignment	not modelled	100.0	23	PDB header: hydrolase Chain: B; PDB Molecule: protease cspb; PDBTitle: structure of the clostridium perfringens cspb protease
22	c4aktB_	Alignment	not modelled	100.0	37	PDB header: hydrolase/peptide Chain: B; PDB Molecule: thiazoline oxidase/subtilisin-like protease; PDBTitle: patg macrocyclase in complex with peptide
23	c1wmeA_	Alignment	not modelled	100.0	36	PDB header: hydrolase Chain: A; PDB Molecule: protease; PDBTitle: crystal structure of alkaline serine protease kp-43 from bacillus sp.2 ksm-kp43 (1.50 angstrom, 293 k)
24	c4mzdA_	Alignment	not modelled	100.0	27	PDB header: hydrolase Chain: A; PDB Molecule: nisin leader peptide-processing serine protease nisp; PDBTitle: high resolution crystal structure of the nisin leader peptidase nisp2 from lactococcus lactis
25	d1v6ca_	Alignment	not modelled	100.0	29	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
26	c3lxuX_	Alignment	not modelled	100.0	20	PDB header: hydrolase Chain: X; PDB Molecule: tripeptidyl-peptidase 2; PDBTitle: crystal structure of tripeptidyl peptidase 2 (tpp ii)
27	c4lvnA_	Alignment	not modelled	100.0	25	PDB header: hydrolase/inhibitor/immune system Chain: A; PDB Molecule: subtilisin-like serine protease; PDBTitle: crystal structure of pfsub1-prodomain-nimp.m7 fab complex
28	d2id4a2	Alignment	not modelled	100.0	21	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
						PDB header: hydrolase

29	c5vllA_	Alignment	not modelled	100.0	27	Chain: A: PDB Molecule: propotein convertase subtilisin/kexin type 9; PDBTitle: short pcsk9 delta-p' complex with peptide pep3
30	c3afgA_	Alignment	not modelled	100.0	26	PDB header: hydrolase Chain: A: PDB Molecule: subtilisin-like serine protease; PDBTitle: crystal structure of pron-tk-sp from thermococcus kodakaraensis
31	c3whiA_	Alignment	not modelled	100.0	30	PDB header: hydrolase Chain: A: PDB Molecule: subtilisin e; PDBTitle: crystal structure of unautoprocessed form of is1-inserted pro-2 subtilisin e
32	c4zoqM_	Alignment	not modelled	100.0	28	PDB header: hydrolase Chain: M: PDB Molecule: intracellular serine protease; PDBTitle: crystal structure of a lanthipeptide protease
33	c3vv3B_	Alignment	not modelled	100.0	27	PDB header: hydrolase Chain: B: PDB Molecule: deseasin mcp-01; PDBTitle: crystal structure of deseasin mcp-01 from pseudoalteromonas sp. sm9913
34	d1meeA_	Alignment	not modelled	100.0	33	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
35	d1gcia_	Alignment	not modelled	100.0	47	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
36	d1dbia_	Alignment	not modelled	100.0	48	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
37	d1bh6a_	Alignment	not modelled	100.0	36	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
38	d1wmda2	Alignment	not modelled	100.0	33	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
39	d1to2e_	Alignment	not modelled	100.0	44	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
40	c5yl7A_	Alignment	not modelled	100.0	25	PDB header: hydrolase Chain: A: PDB Molecule: pseudoalteromonas arctica pamc 21717; PDBTitle: proteases from pseudoalteromonas arctica pamc 21717 (pro21717)
41	d1thma_	Alignment	not modelled	100.0	42	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
42	d1r0re_	Alignment	not modelled	100.0	37	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
43	d1gnsa_	Alignment	not modelled	100.0	45	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
44	c5z6oA_	Alignment	not modelled	100.0	24	PDB header: hydrolase Chain: A: PDB Molecule: protease; PDBTitle: crystal structure of penicillium cyclopium protease
45	c2z2zA_	Alignment	not modelled	100.0	34	PDB header: hydrolase Chain: A: PDB Molecule: tk-subtilisin precursor; PDBTitle: crystal structure of unautoprocessed form of tk-subtilisin soaked by 2 10mm cacl2
46	c3f7oB_	Alignment	not modelled	100.0	22	PDB header: hydrolase Chain: B: PDB Molecule: serine protease; PDBTitle: crystal structure of cuticle-degrading protease from paecilomyces2 lilacinus (pl646)
47	d2ixta1	Alignment	not modelled	100.0	24	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
48	c3lpcA_	Alignment	not modelled	100.0	23	PDB header: hydrolase Chain: A: PDB Molecule: aprb2; PDBTitle: crystal structure of a subtilisin-like protease
49	d2pwaa1	Alignment	not modelled	100.0	25	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
50	c4dztA_	Alignment	not modelled	100.0	28	PDB header: hydrolase/hydrolase inhibitor Chain: A: PDB Molecule: aqualysin-1; PDBTitle: aqualysin i: the crystal structure of a serine protease from an2 extreme thermophile, thermus aquaticus yt-1
51	c2w2qA_	Alignment	not modelled	100.0	27	PDB header: hydrolase/receptor Chain: A: PDB Molecule: propotein convertase subtilisin/kexin type 9; PDBTitle: pcsk9-deltac d374h mutant bound to wt egf-a of ldlr
52	d1sioa_	Alignment	not modelled	100.0	32	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Serine-carboxyl proteinase, SCP
53	c1s2nB_	Alignment	not modelled	100.0	30	PDB header: hydrolase Chain: B: PDB Molecule: extracellular subtilisin-like serine proteinase; PDBTitle: crystal structure of a cold adapted subtilisin-like serine proteinase
54	c2z2yC_	Alignment	not modelled	100.0	38	PDB header: hydrolase Chain: C: PDB Molecule: tk-subtilisin; PDBTitle: crystal structure of autoprocessed form of tk-subtilisin
55	c2b6nA_	Alignment	not modelled	100.0	29	PDB header: hydrolase Chain: A: PDB Molecule: proteinase k; PDBTitle: the 1.8 a crystal structure of a proteinase k like enzyme from a2 psychrotroph serratia species

56	c2x8jB_	Alignment	not modelled	100.0	26	PDB header: hydrolase Chain: B: PDB Molecule: intracellular subtilisin protease; PDBTitle: intracellular subtilisin precursor from b. clausii
57	d1t1ga_	Alignment	not modelled	100.0	32	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Serine-carboxyl proteinase, SCP
58	c4aksA_	Alignment	not modelled	100.0	42	PDB header: hydrolase Chain: A: PDB Molecule: thiazoline oxidase/subtilisin-like protease; PDBTitle: patg macrocyclase domain
59	c6f9mA_	Alignment	not modelled	100.0	27	PDB header: hydrolase Chain: A: PDB Molecule: serine protease; PDBTitle: the lipy/f-motif in an intracellular subtilisin protease is involved2 in inhibition
60	c4h6wB_	Alignment	not modelled	100.0	43	PDB header: hydrolase Chain: B: PDB Molecule: n-terminal cyanobactin protease; PDBTitle: structure of prenylagaramide maturation protease paga
61	c3zxxA_	Alignment	not modelled	100.0	31	PDB header: hydrolase Chain: A: PDB Molecule: subtilisin-like protein; PDBTitle: structure of self-cleaved protease domain of pata
62	c3zxyA_	Alignment	not modelled	100.0	25	PDB header: hydrolase Chain: A: PDB Molecule: subtilisin-like protein; PDBTitle: structure of s218a mutant of the protease domain of pata
63	d1ga6a_	Alignment	not modelled	100.0	19	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Serine-carboxyl proteinase, SCP
64	ct1eA_	Alignment	not modelled	99.9	31	PDB header: hydrolase Chain: A: PDB Molecule: kumamolisin; PDBTitle: high resolution crystal structure of the intact pro-2 kumamolisin, a sedolisin type proteinase (previously3 called kumamolysin or kscp)
65	c3ee6A_	Alignment	not modelled	99.9	17	PDB header: hydrolase Chain: A: PDB Molecule: tripeptidyl-peptidase 1; PDBTitle: crystal structure analysis of tripeptidyl peptidase -i
66	c3edyA_	Alignment	not modelled	99.8	18	PDB header: hydrolase Chain: A: PDB Molecule: tripeptidyl-peptidase 1; PDBTitle: crystal structure of the precursor form of human tripeptidyl-peptidase2 1
67	d1k78a2	Alignment	not modelled	71.8	23	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Paired domain
68	d6paxa2	Alignment	not modelled	64.8	23	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Paired domain
69	c5kzoA_	Alignment	not modelled	59.1	20	PDB header: transcription Chain: A: PDB Molecule: neurogenic locus notch homolog protein 1; PDBTitle: notch1 transmembrane and associated juxtamembrane segment
70	c2k27A_	Alignment	not modelled	48.4	19	PDB header: transcription regulator Chain: A: PDB Molecule: paired box protein pax-8; PDBTitle: solution structure of human pax8 paired box domain
71	d1mzga_	Alignment	not modelled	47.1	36	Fold: SufE/NifU Superfamily: SufE/NifU Family: SufE-like
72	d1ni7a_	Alignment	not modelled	46.8	20	Fold: SufE/NifU Superfamily: SufE/NifU Family: SufE-like
73	c2m20B_	Alignment	not modelled	38.3	28	PDB header: signaling protein Chain: B: PDB Molecule: epidermal growth factor receptor; PDBTitle: egfr transmembrane - juxtamembrane (tm-jm) segment in bicelles: md2 guided nmr refined structure.
74	c2pe4A_	Alignment	not modelled	34.3	37	PDB header: hydrolase Chain: A: PDB Molecule: hyaluronidase-1; PDBTitle: structure of human hyaluronidase 1, a hyaluronan hydrolyzing enzyme2 involved in tumor growth and angiogenesis
75	c1fcuA_	Alignment	not modelled	32.7	16	PDB header: hydrolase Chain: A: PDB Molecule: hyaluronoglucosaminidase; PDBTitle: crystal structure (trigonal) of bee venom hyaluronidase
76	c2kluA_	Alignment	not modelled	31.8	33	PDB header: immune system, membrane protein Chain: A: PDB Molecule: t-cell surface glycoprotein cd4; PDBTitle: nmr structure of the transmembrane and cytoplasmic domains2 of human cd4
77	c1wloA_	Alignment	not modelled	28.2	26	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: sufe protein; PDBTitle: solution structure of the hypothetical protein from thermus2 thermophilus hb8
78	d1fcqa_	Alignment	not modelled	27.5	16	Fold: TIM beta/alpha-barrel Superfamily: (Trans)glycosidases Family: Bee venom hyaluronidase
79	d1pdnc_	Alignment	not modelled	24.2	13	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Paired domain
80	d1s6la1	Alignment	not modelled	20.2	20	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: MerB N-terminal domain-like
81	c2lcxB_	Alignment	not modelled	18.3	21	PDB header: transferase Chain: B: PDB Molecule: receptor tyrosine-protein kinase erbb-4; PDBTitle: spatial structure of the erbb4 dimeric tm domain
82	c2l2tA_	Alignment	not modelled	18.3	21	PDB header: membrane protein Chain: A: PDB Molecule: receptor tyrosine-protein kinase erbb-4; PDBTitle: solution nmr structure of the erbb4 dimeric membrane domain

83	c3sjrB_	Alignment	not modelled	17.7	22	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of conserved unknown function protein cv_1783 from2 chromobacterium violaceum atcc 12472
84	c6agfB_	Alignment	not modelled	17.1	12	PDB header: membrane protein Chain: B: PDB Molecule: sodium channel subunit beta-1; PDBTitle: structure of the human voltage-gated sodium channel nav1.4 in complex2 with beta1
85	c6imme_	Alignment	not modelled	14.1	22	PDB header: virus Chain: E: PDB Molecule: PDBTitle: cryo-em structure of an alphavirus, sindbis virus
86	c6paxA_	Alignment	not modelled	13.3	23	PDB header: gene regulation/dna Chain: A: PDB Molecule: homeobox protein pax-6; PDBTitle: crystal structure of the human pax-6 paired domain-dna2 complex reveals a general model for pax protein-dna3 interactions
87	c2ks1B_	Alignment	not modelled	11.6	31	PDB header: transferase Chain: B: PDB Molecule: epidermal growth factor receptor; PDBTitle: heterodimeric association of transmembrane domains of erbb1 and erbb2 receptors enabling kinase activation
88	c2v7iA_	Alignment	not modelled	10.4	28	PDB header: biosynthetic protein Chain: A: PDB Molecule: prnb; PDBTitle: prnb native
89	d1ixsa_	Alignment	not modelled	10.4	24	Fold: RuvA C-terminal domain-like Superfamily: DNA helicase RuvA subunit, C-terminal domain Family: DNA helicase RuvA subunit, C-terminal domain
90	c2k9yB_	Alignment	not modelled	10.3	25	PDB header: transferase Chain: B: PDB Molecule: ephrin type-a receptor 2; PDBTitle: epha2 dimeric structure in the lipidic bicelle at ph 5.0
91	c2k9yA_	Alignment	not modelled	10.3	25	PDB header: transferase Chain: A: PDB Molecule: ephrin type-a receptor 2; PDBTitle: epha2 dimeric structure in the lipidic bicelle at ph 5.0
92	c2yewl_	Alignment	not modelled	10.3	23	PDB header: virus Chain: I: PDB Molecule: e2 envelope glycoprotein; PDBTitle: modeling barmah forest virus structural proteins
93	d2ga1a1	Alignment	not modelled	10.0	22	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Alr1493-like
94	c1ijjA_	Alignment	not modelled	10.0	27	PDB header: signaling protein Chain: A: PDB Molecule: erbB-2 receptor protein-tyrosine kinase; PDBTitle: solution structure of the neu/erbB-2 membrane spanning2 segment
95	d1kxpd3	Alignment	not modelled	10.0	16	Fold: Serum albumin-like Superfamily: Serum albumin-like Family: Serum albumin-like
96	c2n2aA_	Alignment	not modelled	9.7	21	PDB header: membrane protein Chain: A: PDB Molecule: receptor tyrosine-protein kinase erbB-2; PDBTitle: spatial structure of her2/erbB2 dimeric transmembrane domain in the2 presence of cytoplasmic juxtamembrane domains
97	c3cqyA_	Alignment	not modelled	8.7	38	PDB header: transferase Chain: A: PDB Molecule: anhydro-n-acetylmuramic acid kinase; PDBTitle: crystal structure of a functionally unknown protein (so_1313) from2 shewanella oneidensis mr-1
98	c4yh5B_	Alignment	not modelled	7.8	38	PDB header: transferase Chain: B: PDB Molecule: levoglucosan kinase; PDBTitle: lipomyces starkeyi levoglucosan kinase bound to adp and manganese
99	c6c14A_	Alignment	not modelled	7.1	13	PDB header: membrane protein, metal transport Chain: A: PDB Molecule: protocadherin-15; PDBTitle: cryoem structure of mouse pcdh15-1ec-lhfp15 complex