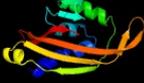
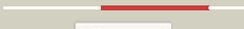
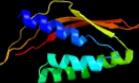
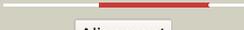
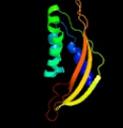
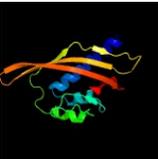
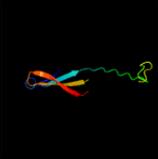
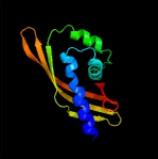


Phyre2

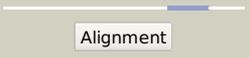
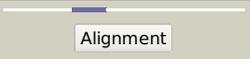
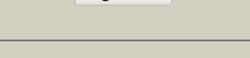
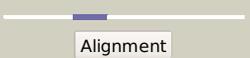
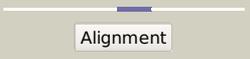
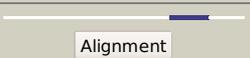
Email	mdejesus@rockefeller.edu
Description	RVBD3493c (-)_3911126_3911854
Date	Fri Aug 9 18:20:17 BST 2019
Unique Job ID	e318f6fed4844f99

Detailed template
information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d3d9ra1	 Alignment		96.7	7	Fold: Cystatin-like Superfamily: NTF2-like Family: ECA1476-like
2	c5cn1A_	 Alignment		96.5	8	PDB header: protein transport Chain: A: PDB Molecule: icml-like; PDBTitle: crystal structure of an icml-like type iv secretion system protein2 (lpg0120) from legionella pneumophila subsp. pneumophila str.3 philadelphia 1 at 2.65 a resolution
3	c3wz4F_	 Alignment		96.1	11	PDB header: unknown function Chain: F: PDB Molecule: doti; PDBTitle: structure of the periplasmic domain of doti (crystal form i)
4	c3wz3A_	 Alignment		96.0	9	PDB header: unknown function Chain: A: PDB Molecule: tram protein; PDBTitle: structure of a periplasmic fragment of tram
5	c3robC_	 Alignment		95.7	9	PDB header: structural genomics, unknown function Chain: C: PDB Molecule: uncharacterized conserved protein; PDBTitle: the crystal structure of a conserved protein from planctomyces2 limnophilus dsm 3776
6	c5u9oD_	 Alignment		95.3	12	PDB header: cell cycle Chain: D: PDB Molecule: plastid division protein cdp1, chloroplastic,plastid PDBTitle: cocrystal structure of the intermembrane space region of the plastid2 division proteins parc6 and pdv1
7	c3hx8A_	 Alignment		94.5	11	PDB header: isomerase Chain: A: PDB Molecule: putative ketosteroid isomerase; PDBTitle: crystal structure of putative ketosteroid isomerase (np_103587.1) from2 mesorhizobium loti at 1.45 a resolution
8	c3a76B_	 Alignment		93.6	9	PDB header: lyase Chain: B: PDB Molecule: gamma-hexachlorocyclohexane dehydrochlorinase; PDBTitle: the crystal structure of lina
9	c5i97C_	 Alignment		91.8	13	PDB header: protein transport Chain: C: PDB Molecule: conjugal transfer protein; PDBTitle: structural analysis and inhibition of trae from the pkm101 type iv2 secretion system
10	d2ux0a1	 Alignment		91.7	10	Fold: Cystatin-like Superfamily: NTF2-like Family: Association domain of calcium/calmodulin-dependent protein kinase type II alpha subunit, CAMK2A
11	c3h51A_	 Alignment		91.1	10	PDB header: protein binding Chain: A: PDB Molecule: putative calcium/calmodulin dependent protein kinase ii PDBTitle: crystal structure of putative calcium/calmodulin dependent protein2 kinase ii association domain (np_636218.1) from xanthomonas3 campestris at 1.70 a resolution

12	d2f86b1	Alignment		90.8	12	Fold: Cystatin-like Superfamily: NTF2-like Family: Association domain of calcium/calmodulin-dependent protein kinase type II alpha subunit, CAMK2A
13	d2cc3a1	Alignment		90.8	14	Fold: Cystatin-like Superfamily: NTF2-like Family: VirB8-like
14	d3stda	Alignment		89.5	13	Fold: Cystatin-like Superfamily: NTF2-like Family: Scytalone dehydratase
15	c5d9rA	Alignment		89.4	10	PDB header: biosynthetic protein Chain: A: PDB Molecule: protein accumulation and replication of chloroplasts 6, PDBTitle: crystal structure of a conserved domain in the intermembrane space2 region of the plastid division protein arc6
16	c4nhfF	Alignment		88.0	14	PDB header: protein transport Chain: F: PDB Molecule: trwg protein; PDBTitle: crystal structure of the soluble domain of trwg type iv secretion2 machinery from bartonella grahamii
17	c5uwaB	Alignment		87.9	26	PDB header: transport protein Chain: B: PDB Molecule: probable phospholipid-binding protein mlac; PDBTitle: structure of e. coli phospholipid binding protein mlac
18	d3ebya1	Alignment		87.6	16	Fold: Cystatin-like Superfamily: NTF2-like Family: Ring hydroxylating beta subunit
19	d3b8la1	Alignment		86.0	17	Fold: Cystatin-like Superfamily: NTF2-like Family: BaiE/LinA-like
20	c4ovmE	Alignment		85.9	8	PDB header: unknown function Chain: E: PDB Molecule: uncharacterized protein sgcj; PDBTitle: crystal structure of sgcj protein from streptomyces carzinostaticus
21	c3gzaA	Alignment	not modelled	85.2	6	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized protein with a ntf2-like fold; PDBTitle: crystal structure of an uncharacterized protein with a cystatin-like2 fold (cc_2572) from caulobacter vibrioides at 1.40 a resolution
22	c5ig4A	Alignment	not modelled	84.4	12	PDB header: transferase Chain: A: PDB Molecule: predicted protein; PDBTitle: crystal structure of n. vectensis camkii-a hub
23	d1hkxa	Alignment	not modelled	82.6	10	Fold: Cystatin-like Superfamily: NTF2-like Family: Association domain of calcium/calmodulin-dependent protein kinase type II alpha subunit, CAMK2A
24	c5ig5E	Alignment	not modelled	82.1	9	PDB header: transferase Chain: E: PDB Molecule: camkii-b hub; PDBTitle: crystal structure of n. vectensis camkii-b hub at ph 4.2
25	d3cu3a1	Alignment	not modelled	80.4	10	Fold: Cystatin-like Superfamily: NTF2-like Family: BaiE/LinA-like
26	c4i4kB	Alignment	not modelled	78.5	13	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein sgcj; PDBTitle: streptomyces globisporus c-1027 9-membered enediyne conserved protein2 sgce6
27	d2rfra1	Alignment	not modelled	77.2	10	Fold: Cystatin-like Superfamily: NTF2-like Family: BaiE/LinA-like
28	c3soyA	Alignment	not modelled	75.5	13	PDB header: membrane protein Chain: A: PDB Molecule: ntf2-like superfamily protein; PDBTitle: nuclear transport factor 2 (ntf2-like) superfamily protein from2 salmonella enterica subsp. enterica serovar typhimurium str.

						lt2
29	c3bb9D_	Alignment	not modelled	74.1	8	PDB header: unknown function Chain: D: PDB Molecule: putative orphan protein; PDBTitle: crystal structure of a putative ketosteroid isomerase (sfri_1973) from2 shewanella frigidimarina ncimb 400 at 1.80 a resolution
30	d3ef8a1	Alignment	not modelled	71.1	8	Fold: Cystatin-like Superfamily: NTF2-like Family: BaiE/LinA-like
31	d3bb9a1	Alignment	not modelled	68.2	5	Fold: Cystatin-like Superfamily: NTF2-like Family: SO0125-like
32	c4fczB_	Alignment	not modelled	67.3	23	PDB header: transport protein Chain: B: PDB Molecule: toluene-tolerance protein; PDBTitle: crystal structure of toluene-tolerance protein from pseudomonas putida2 (strain kt2440), northeast structural genomics consortium (nesg)3 target ppr99
33	c3f7sA_	Alignment	not modelled	66.6	6	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized ntf2-like protein; PDBTitle: crystal structure of a ntf2-like protein of unknown function (pp_4556)2 from pseudomonas putida kt2440 at 2.11 a resolution
34	c4lehA_	Alignment	not modelled	66.5	7	PDB header: lyase Chain: A: PDB Molecule: bile acid 7-alpha dehydratase, baie; PDBTitle: crystal structure of a bile-acid 7-alpha dehydratase (closi_03134)2 from clostridium scindens atcc 35704 at 2.90 a resolution
35	c4meiA_	Alignment	not modelled	65.1	12	PDB header: protein transport Chain: A: PDB Molecule: virb8 protein; PDBTitle: crystal structure of a virb8 type iv secretion system machinery2 soluble domain from bartonella tribocorum
36	c2bhmE_	Alignment	not modelled	64.3	14	PDB header: bacterial protein Chain: E: PDB Molecule: type iv secretion system protein virb8; PDBTitle: crystal structure of virb8 from brucella suis
37	c6of9G_	Alignment	not modelled	59.1	14	PDB header: unknown function Chain: G: PDB Molecule: camkii hub; PDBTitle: structure of the chlamydamonas reinhardtii camkii hub homology domain
38	d2r4ia1	Alignment	not modelled	58.3	11	Fold: Cystatin-like Superfamily: NTF2-like Family: CHU142-like
39	d3blza1	Alignment	not modelled	57.5	12	Fold: Cystatin-like Superfamily: NTF2-like Family: Sbal0622-like
40	d1ldpa_	Alignment	not modelled	49.8	13	Fold: Cystatin-like Superfamily: NTF2-like Family: Scytalone dehydratase
41	d2bhma1	Alignment	not modelled	49.6	9	Fold: Cystatin-like Superfamily: NTF2-like Family: VirB8-like
42	d2chca1	Alignment	not modelled	45.7	17	Fold: Cystatin-like Superfamily: NTF2-like Family: Rv3472-like
43	c2qguA_	Alignment	not modelled	44.4	21	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: probable signal peptide protein; PDBTitle: three-dimensional structure of the phospholipid-binding protein from2 ralstonia solanacearum q8xv73_ralsq in complex with a phospholipid at3 the resolution 1.53 a. northeast structural genomics consortium4 target rsr89
44	d3b7ca1	Alignment	not modelled	43.9	10	Fold: Cystatin-like Superfamily: NTF2-like Family: SO0125-like
45	d2rgqa1	Alignment	not modelled	42.8	13	Fold: Cystatin-like Superfamily: NTF2-like Family: Rv3472-like
46	c5ig0A_	Alignment	not modelled	42.1	12	PDB header: transferase Chain: A: PDB Molecule: camk/camk2 protein kinase; PDBTitle: crystal structure of s. rosetta camkii hub
47	c4hzbE_	Alignment	not modelled	41.9	7	PDB header: hydrolase Chain: E: PDB Molecule: putative periplasmic protein; PDBTitle: crystal structure of the type vi semet effector-immunity complex tae3-2 tai3 from ralstonia pickettii
48	c4o3vA_	Alignment	not modelled	34.2	15	PDB header: protein transport Chain: A: PDB Molecule: virb8-like protein of type iv secretion system; PDBTitle: crystal structure of a virb8-like protein of type iv secretion system2 from rickettsia typhi
49	c4r4gA_	Alignment	not modelled	31.9	8	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative lipoprotein ycda; PDBTitle: crystal structure of a putative lipoprotein (ycda) from bacillus2 subtilis subsp. subtilis str. 168 at 2.62 a resolution
50	c3k7cC_	Alignment	not modelled	29.5	13	PDB header: protein binding Chain: C: PDB Molecule: putative ntf2-like transpeptidase; PDBTitle: crystal structure of putative ntf2-like transpeptidase (np_281412.1)2 from campylobacter jejuni at 2.00 a resolution
51	d3cnxa1	Alignment	not modelled	26.6	11	Fold: Cystatin-like Superfamily: NTF2-like Family: SAV4671-like
52	d2b1xb1	Alignment	not modelled	26.2	5	Fold: Cystatin-like Superfamily: NTF2-like Family: Ring hydroxylating beta subunit
53	c4gb5A_	Alignment	not modelled	22.0	14	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of kfla4162 protein from kribbella flavida

54	c2ls01_	 Alignment	not modelled	21.3	22	PDB header: hydrolase Chain: 1: PDB Molecule: zoocin a endopeptidase; PDB Fragment: unp residues 170-285; PDBTitle: solution structure of the target recognition domain of zoocin a
55	c4a4iA_	 Alignment	not modelled	20.8	13	PDB header: rna binding protein Chain: A: PDB Molecule: protein lin-28 homolog b; PDBTitle: crystal structure of the human lin28b cold shock domain
56	c6f0kA_	 Alignment	not modelled	17.2	16	PDB header: membrane protein Chain: A: PDB Molecule: cytochrome c family protein; PDBTitle: alternative complex iii
57	c5up5A_	 Alignment	not modelled	15.0	54	PDB header: de novo protein Chain: A: PDB Molecule: ehee_rd1_0284; PDBTitle: solution structure of the de novo mini protein ehee_rd1_0284
58	c3efyB_	 Alignment	not modelled	14.5	27	PDB header: cell cycle Chain: B: PDB Molecule: cif (cell cycle inhibiting factor); PDBTitle: structure of the cyclomodulin cif from pathogenic2 escherichia coli
59	c6nhyA_	 Alignment	not modelled	14.1	16	PDB header: immune system Chain: A: PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 mutant2 (g217y) - trimer only
60	c6nhyC_	 Alignment	not modelled	14.1	16	PDB header: immune system Chain: C: PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 mutant2 (g217y) - trimer only
61	c6nhyB_	 Alignment	not modelled	14.1	16	PDB header: immune system Chain: B: PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 mutant2 (g217y) - trimer only
62	c3gwrA_	 Alignment	not modelled	13.9	12	PDB header: protein binding Chain: A: PDB Molecule: putative calcium/calmodulin-dependent protein kinase type PDBTitle: crystal structure of putative calcium/calmodulin-dependent protein2 kinase type ii association domain (yp_315894.1) from thiobacillus3 denitrificans atcc 25259 at 2.00 a resolution
63	c3ke7A_	 Alignment	not modelled	13.2	3	PDB header: isomerase Chain: A: PDB Molecule: putative ketosteroid isomerase; PDBTitle: crystal structure of putative ketosteroid isomerase (yp_001303366.1)2 from parabacteroides distazonis atcc 8503 at 1.45 a resolution
64	c5x9kA_	 Alignment	not modelled	12.0	19	PDB header: isomerase Chain: A: PDB Molecule: austinol synthesis protein h; PDBTitle: strcutre of aush from aspergillus nidulans
65	c3kspA_	 Alignment	not modelled	11.4	7	PDB header: unknown function Chain: A: PDB Molecule: calcium/calmodulin-dependent kinase ii association domain; PDBTitle: crystal structure of a putative ca/calmodulin-dependent kinase ii2 association domain (exig_1688) from exiguobacterium sibiricum 255-153 at 2.59 a resolution
66	c3j6vl_	 Alignment	not modelled	10.6	26	PDB header: ribosome Chain: I: PDB Molecule: 28s ribosomal protein s9, mitochondrial; PDBTitle: cryo-em structure of the small subunit of the mammalian mitochondrial2 ribosome
67	d2gxfa1	 Alignment	not modelled	10.4	16	Fold: Cystatin-like Superfamily: NTF2-like Family: YybH-like
68	d1jz8a1	 Alignment	not modelled	10.3	20	Fold: Immunoglobulin-like beta-sandwich Superfamily: beta-Galactosidase/glucuronidase domain Family: beta-Galactosidase/glucuronidase domain
69	c3klqB_	 Alignment	not modelled	9.9	16	PDB header: cell adhesion Chain: B: PDB Molecule: putative pilus anchoring protein; PDBTitle: crystal structure of the minor pilin fctb from streptococcus pyogenes2 90/306s
70	c2rujA_	 Alignment	not modelled	9.5	30	PDB header: protein binding Chain: A: PDB Molecule: stress-activated map kinase-interacting protein 1; PDBTitle: solution structure of mtsl spin-labeled schizosaccharomyces pombe sin12 crim domain
71	c1nm3B_	 Alignment	not modelled	9.4	21	PDB header: electron transport Chain: B: PDB Molecule: protein hi0572; PDBTitle: crystal structure of heamophilus influenza hybrid-prx5
72	d2cw9a1	 Alignment	not modelled	8.9	9	Fold: Cystatin-like Superfamily: NTF2-like Family: TIM44-like
73	c5wdaL_	 Alignment	not modelled	8.6	8	PDB header: protein transport Chain: L: PDB Molecule: general secretion pathway protein g; PDBTitle: structure of the pulg pseudopilus
74	c3r2cJ_	 Alignment	not modelled	8.4	20	PDB header: transcription/rna Chain: J: PDB Molecule: 30s ribosomal protein s10; PDBTitle: crystal structure of antitermination factors nusB and nusE in complex2 with boxA rna
75	c2kd2A_	 Alignment	not modelled	8.2	36	PDB header: apoptosis Chain: A: PDB Molecule: fas apoptotic inhibitory molecule 1; PDBTitle: nmr structure of faim-ctd
76	c5wqhE_	 Alignment	not modelled	7.8	14	PDB header: isomerase Chain: E: PDB Molecule: isomerase trt14; PDBTitle: structure of fungal meroterpenoid isomerase trt14 complexed with2 substrate analog and endo-terretonin d
77	c2ytyA_	 Alignment	not modelled	7.8	5	PDB header: rna binding protein Chain: A: PDB Molecule: cold shock domain-containing protein e1; PDBTitle: solution structure of the fourth cold-shock domain of the human2 kiaa0885 protein (unr protein)

78	c2gbxF_	Alignment	not modelled	7.6	6	PDB header: oxidoreductase Chain: F; PDB Molecule: biphenyl 2,3-dioxygenase beta subunit; PDBTitle: crystal structure of biphenyl 2,3-dioxygenase from sphingomonas2 yanoikuyae b1 bound to biphenyl
79	c6nhwB_	Alignment	not modelled	7.5	16	PDB header: immune system Chain: B; PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 - dimer2 of trimer
80	c6nhwF_	Alignment	not modelled	7.5	16	PDB header: immune system Chain: F; PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 - dimer2 of trimer
81	c6nhwD_	Alignment	not modelled	7.5	16	PDB header: immune system Chain: D; PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 - dimer2 of trimer
82	c6nhwE_	Alignment	not modelled	7.5	16	PDB header: immune system Chain: E; PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 - dimer2 of trimer
83	c6nhwC_	Alignment	not modelled	7.5	16	PDB header: immune system Chain: C; PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 - dimer2 of trimer
84	c6nhwA_	Alignment	not modelled	7.5	16	PDB header: immune system Chain: A; PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 - dimer2 of trimer
85	c6oegY_	Alignment	not modelled	7.3	13	PDB header: translocase Chain: Y; PDB Molecule: type iv secretion system apparatus protein cagx; PDBTitle: structure of cagx from a cryo-em reconstruction of a t4ss
86	c2n6uA_	Alignment	not modelled	7.1	29	PDB header: unknown function Chain: A; PDB Molecule: astexin2-dc4; PDBTitle: solution study of astexin2-dc4
87	d2iafa1	Alignment	not modelled	7.0	23	Fold: FwdE/GAPDH domain-like Superfamily: Serine metabolism enzymes domain Family: Serine dehydratase beta chain-like
88	c2lcnA_	Alignment	not modelled	6.8	41	PDB header: membrane protein Chain: A; PDB Molecule: walp19-p10 peptide; PDBTitle: 1h and 15n assignments of walp19-p10 peptide in sds micelles
89	d3ejva1	Alignment	not modelled	6.7	17	Fold: Cystatin-like Superfamily: NTF2-like Family: BaiE/LinA-like
90	d2h1ta1	Alignment	not modelled	6.1	13	Fold: Spiral beta-roll Superfamily: PA1994-like Family: PA1994-like
91	c1xt5A_	Alignment	not modelled	6.0	19	PDB header: immune system Chain: A; PDB Molecule: variable region-containing chitin-binding PDBTitle: crystal structure of vcbp3, domain 1, from branchiostoma2 floridae
92	c2lcoA_	Alignment	not modelled	5.9	47	PDB header: membrane protein Chain: A; PDB Molecule: walp19-p8 peptide; PDBTitle: 1h and 15n assignments of walp19-p8 peptide in sds micelles
93	d1omha_	Alignment	not modelled	5.9	3	Fold: Origin of replication-binding domain, RBD-like Superfamily: Origin of replication-binding domain, RBD-like Family: Relaxase domain
94	d2ngra1	Alignment	not modelled	5.8	9	Fold: beta-clip Superfamily: MoeA C-terminal domain-like Family: MoeA C-terminal domain-like
95	c3dukD_	Alignment	not modelled	5.6	16	PDB header: unknown function Chain: D; PDB Molecule: ntf2-like protein of unknown function; PDBTitle: crystal structure of a ntf2-like protein of unknown function2 (mfla_0564) from methylobacillus flagellatus kt at 2.200 a resolution
96	c1cwxA_	Alignment	not modelled	5.4	56	PDB header: viral protein Chain: A; PDB Molecule: hepatitis c virus capsid protein; PDBTitle: solution structure of the hepatitis c virus n-terminal2 capsid protein 2-45 [c-hcv(2-45)]
97	c2k9yB_	Alignment	not modelled	5.4	19	PDB header: transferase Chain: B; PDB Molecule: ephrin type-a receptor 2; PDBTitle: epha2 dimeric structure in the lipidic bicelle at ph 5.0
98	c2k9yA_	Alignment	not modelled	5.4	19	PDB header: transferase Chain: A; PDB Molecule: ephrin type-a receptor 2; PDBTitle: epha2 dimeric structure in the lipidic bicelle at ph 5.0
99	d2pila_	Alignment	not modelled	5.3	16	Fold: Pili subunits Superfamily: Pili subunits Family: Pilin