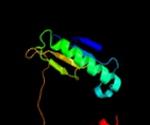
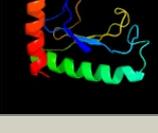


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0759c_(-)_853828_854160
Date	Fri Jul 26 01:50:34 BST 2019
Unique Job ID	32bf619bb8e85a65

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3p0tB_	 Alignment		100.0	86	PDB header: unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of an hit-like protein from mycobacterium2 paratuberculosis
2	c3i24B_	 Alignment		100.0	18	PDB header: hydrolase Chain: B: PDB Molecule: hit family hydrolase; PDBTitle: crystal structure of a hit family hydrolase protein from vibrio2 fischeri. northeast structural genomics consortium target id vfr176
3	c3oheA_	 Alignment		100.0	18	PDB header: hydrolase Chain: A: PDB Molecule: histidine triad (hit) protein; PDBTitle: crystal structure of a histidine triad protein (maqu_1709) from2 marinobacter aquaeolei vt8 at 1.20 a resolution
4	c3i7xA_	 Alignment		100.0	25	PDB header: cell cycle Chain: A: PDB Molecule: putative hit-like protein involved in cell-cycle PDBTitle: the crystal structure of smu.412c from streptococcus mutans ua159
5	c3nrdB_	 Alignment		100.0	19	PDB header: nucleotide binding protein Chain: B: PDB Molecule: histidine triad (hit) protein; PDBTitle: crystal structure of a histidine triad (hit) protein (smc02904) from2 sinorhizobium meliloti 1021 at 2.06 a resolution
6	c3i4sB_	 Alignment		100.0	13	PDB header: hydrolase Chain: B: PDB Molecule: histidine triad protein; PDBTitle: crystal structure of histidine triad protein blr8122 from2 bradyrhizobium japonicum
7	d2oika1	 Alignment		100.0	14	Fold: HIT-like Superfamily: HIT-like Family: HIT (HINT, histidine triad) family of protein kinase-interacting proteins
8	c5cs2A_	 Alignment		100.0	23	PDB header: hydrolase Chain: A: PDB Molecule: histidine triad protein; PDBTitle: crystal structure of plasmodium falciparum diadenosine triphosphate2 hydrolase in complex with cyclamarin a
9	c3ksvA_	 Alignment		100.0	22	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: hypothetical protein from leishmania major
10	c6iq1A_	 Alignment		100.0	20	PDB header: hydrolase Chain: A: PDB Molecule: adenosine 5'-monophosphoramidase; PDBTitle: crystal structure of histidine triad nucleotide-binding protein from2 candida albicans
11	d1fita_	 Alignment		99.9	24	Fold: HIT-like Superfamily: HIT-like Family: HIT (HINT, histidine triad) family of protein kinase-interacting proteins

12	c3anoA	Alignment		99.9	20	PDB header: transferase Chain: A: PDB Molecule: ap-4-a phosphorylase; PDBTitle: crystal structure of a novel diadenosine 5',5'''-p1,p4-tetraphosphate2 phosphorylase from mycobacterium tuberculosis h37rv
13	c3imiB	Alignment		99.9	24	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: hit family protein; PDBTitle: 2.01 angstrom resolution crystal structure of a hit family protein2 from bacillus anthracis str. 'ames ancestor'
14	c1emsB	Alignment		99.9	26	PDB header: antitumor protein Chain: B: PDB Molecule: nit-fragile histidine triad fusion protein; PDBTitle: crystal structure of the c. elegans nitfhit protein
15	c2eo4A	Alignment		99.9	25	PDB header: hydrolase Chain: A: PDB Molecule: 150aa long hypothetical histidine triad nucleotide-binding PDBTitle: crystal structure of hypothetical histidine triad nucleotide-binding2 protein st2152 from sulfolobus tokodaii strain7
16	d1ems1	Alignment		99.9	26	Fold: HIT-like Superfamily: HIT-like Family: HIT (HINT, histidine triad) family of protein kinase-interacting proteins
17	c3o0mB	Alignment		99.9	32	PDB header: hydrolase Chain: B: PDB Molecule: hit family protein; PDBTitle: crystal structure of a zn-bound histidine triad family protein from2 mycobacterium smegmatis
18	c3r6fA	Alignment		99.9	21	PDB header: hydrolase Chain: A: PDB Molecule: hit family protein; PDBTitle: crystal structure of a zinc-containing hit family protein from2 encephalitozoon cuniculi
19	d1y23a	Alignment		99.9	26	Fold: HIT-like Superfamily: HIT-like Family: HIT (HINT, histidine triad) family of protein kinase-interacting proteins
20	c3lb5B	Alignment		99.9	35	PDB header: cell cycle Chain: B: PDB Molecule: hit-like protein involved in cell-cycle regulation; PDBTitle: crystal structure of hit-like protein involved in cell-cycle2 regulation from bartonella henselae with unknown ligand
21	c4incA	Alignment	not modelled	99.9	21	PDB header: hydrolase Chain: A: PDB Molecule: histidine triad nucleotide-binding protein 2, PDBTitle: human histidine triad nucleotide binding protein 2
22	d1rzya	Alignment	not modelled	99.8	24	Fold: HIT-like Superfamily: HIT-like Family: HIT (HINT, histidine triad) family of protein kinase-interacting proteins
23	d1kpfa	Alignment	not modelled	99.8	23	Fold: HIT-like Superfamily: HIT-like Family: HIT (HINT, histidine triad) family of protein kinase-interacting proteins
24	d1z84a2	Alignment	not modelled	99.8	12	Fold: HIT-like Superfamily: HIT-like Family: Hexose-1-phosphate uridylyltransferase
25	c4eguA	Alignment	not modelled	99.8	25	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: histidine triad (hit) protein; PDBTitle: 0.95a resolution structure of a histidine triad protein from2 clostridium difficile
26	c6d6jB	Alignment	not modelled	99.8	22	PDB header: hydrolase Chain: B: PDB Molecule: hit family hydrolase; PDBTitle: crystal structure of hit family hydrolase from legionella pneumophila2 philadelphia 1
27	c3n1tE	Alignment	not modelled	99.8	22	PDB header: hydrolase Chain: E: PDB Molecule: hit-like protein hint; PDBTitle: crystal structure of the h101a mutant echint gmp complex
28	d1xqua	Alignment	not modelled	99.8	19	Fold: HIT-like Superfamily: HIT-like Family: HIT (HINT, histidine triad) family of protein kinase-interacting proteins
29	c1xqa	Alignment	not modelled	99.8	19	PDB header: hydrolase Chain: A: PDB Molecule: hit family hydrolase;

29	c1xqaA	Alignment	not modelled	99.8	19	PDBTitle: hit family hydrolase from clostridium thermocellum cth-393 PDB header: metal binding protein
30	c3oj7A	Alignment	not modelled	99.8	21	Chain: A; PDB Molecule: putative histidine triad family protein; PDBTitle: crystal structure of a histidine triad family protein from entamoeba2 histolytica, bound to sulfate
31	c4q61J	Alignment	not modelled	99.8	26	PDB header: cell cycle Chain: J; PDB Molecule: uncharacterized hit-like protein hp_0404; PDBTitle: hit like protein from helicobacter pylori 26695
32	d1guqa2	Alignment	not modelled	99.8	14	Fold: HIT-like Superfamily: HIT-like Family: Hexose-1-phosphate uridylyltransferase
33	c1zwiA	Alignment	not modelled	99.7	12	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: putative galactose-1-phosphate uridyl transferase; PDBTitle: x-ray structure of galt-like protein from arabidopsis thaliana2 at5g18200
34	c1gupC	Alignment	not modelled	99.6	15	PDB header: nucleotidyltransferase Chain: C; PDB Molecule: galactose-1-phosphate uridylyltransferase; PDBTitle: structure of nucleotidyltransferase complexed with udp-2 galactose
35	c5in3A	Alignment	not modelled	99.6	18	PDB header: transferase Chain: A; PDB Molecule: galactose-1-phosphate uridylyltransferase; PDBTitle: crystal structure of glucose-1-phosphate bound nucleotidylated human2 galactose-1-phosphate uridylyltransferase
36	c4ndgB	Alignment	not modelled	99.6	20	PDB header: dna binding protein/rna/dna Chain: B; PDB Molecule: aprataxin; PDBTitle: human aprataxin (aptx) bound to rna-dna and zn -adenosine vanadate2 transition state mimic complex
37	c3splC	Alignment	not modelled	99.4	19	PDB header: hydrolase/dna Chain: C; PDB Molecule: aprataxin-like protein; PDBTitle: crystal structure of aprataxin ortholog hnt3 in complex with dna and2 amp
38	c4i5wA	Alignment	not modelled	99.3	16	PDB header: transferase Chain: A; PDB Molecule: 5',5'''-p-1,p-4-tetraphosphate phosphorylase 2; PDBTitle: crystal structure of yeast ap4a phosphorylase apa2 in complex with amp
39	c3jb9c	Alignment	not modelled	99.2	15	PDB header: rna binding protein/rna Chain: C; PDB Molecule: u5 snrna; PDBTitle: cryo-em structure of the yeast spliceosome at 3.6 angstrom resolution
40	d1z84a1	Alignment	not modelled	99.1	14	Fold: HIT-like Superfamily: HIT-like Family: Hexose-1-phosphate uridylyltransferase
41	c4qvuA	Alignment	not modelled	98.7	11	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a duf4931 family protein (bce0241) from bacillus2 cereus atcc 10987 at 2.65 a resolution
42	c6id1U	Alignment	not modelled	98.7	14	PDB header: splicing Chain: U; PDB Molecule: cwf19-like protein 2; PDBTitle: cryo-em structure of a human intron lariat spliceosome after prp432 loaded (ils2 complex) at 2.9 angstrom resolution
43	d3bl9a1	Alignment	not modelled	98.1	12	Fold: HIT-like Superfamily: HIT-like Family: mRNA decapping enzyme DcpS C-terminal domain
44	d1vira1	Alignment	not modelled	98.0	12	Fold: HIT-like Superfamily: HIT-like Family: mRNA decapping enzyme DcpS C-terminal domain
45	c3bl9B	Alignment	not modelled	97.9	12	PDB header: hydrolase Chain: B; PDB Molecule: scavenger mrna-decapping enzyme dcps; PDBTitle: synthetic gene encoded dcps bound to inhibitor dg157493
46	c6gbsB	Alignment	not modelled	97.5	10	PDB header: hydrolase Chain: B; PDB Molecule: putative mrna decapping protein; PDBTitle: crystal structure of the c. thermophilum scavenger decapping enzyme2 dcps apo form
47	c1xmiA	Alignment	not modelled	97.5	12	PDB header: chaperone Chain: A; PDB Molecule: heat shock-like protein 1; PDBTitle: structure of human dcps
48	c5bv3C	Alignment	not modelled	97.5	10	PDB header: hydrolase Chain: C; PDB Molecule: m7gpppx diphosphatase; PDBTitle: yeast scavenger decapping enzyme in complex with m7gdp
49	d1guqa1	Alignment	not modelled	95.4	7	Fold: HIT-like Superfamily: HIT-like Family: Hexose-1-phosphate uridylyltransferase
50	c4lvjA	Alignment	not modelled	87.3	11	PDB header: dna binding protein/dna Chain: A; PDB Molecule: plasmid recombination enzyme; PDBTitle: mobm relaxase domain (mobv; mob_pre) bound to plasmid pmv158 orit dna2 (22nt). mn-bound crystal structure at ph 5.5
51	d2pofa1	Alignment	not modelled	83.7	18	Fold: HIT-like Superfamily: HIT-like Family: CDH-like
52	c3csqC	Alignment	not modelled	44.3	21	PDB header: hydrolase Chain: C; PDB Molecule: morphogenesis protein 1; PDBTitle: crystal and cryoem structural studies of a cell wall2 degrading enzyme in the bacteriophage phi29 tail
53	c3sdsA	Alignment	not modelled	43.5	13	PDB header: transferase Chain: A; PDB Molecule: ornithine carbamoyltransferase, mitochondrial; PDBTitle: crystal structure of a mitochondrial ornithine carbamoyltransferase2 from coccidioides immitis
54	d1mg4a	Alignment	not modelled	39.4	6	Fold: beta-Grasp (ubiquitin-like) Superfamily: Doublecortin (DC) Family: Doublecortin (DC)

55	c4euvA	Alignment	not modelled	35.1	11	PDB header: signaling protein Chain: A: PDB Molecule: peld; PDBTitle: crystal structure of peld 158-ct from pseudomonas aeruginosa pao1, in2 complex with c-di-gmp, form 1
56	d2b7oa1	Alignment	not modelled	32.2	15	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class-II DAHP synthetase
57	d1uf0a	Alignment	not modelled	31.4	6	Fold: beta-Grasp (ubiquitin-like) Superfamily: Doublecortin (DC) Family: Doublecortin (DC)
58	c5ip4E	Alignment	not modelled	29.1	3	PDB header: transferase Chain: E: PDB Molecule: neuronal migration protein doublecortin; PDBTitle: x-ray structure of the c-terminal domain of human doublecortin
59	c6bmcA	Alignment	not modelled	26.8	19	PDB header: transferase Chain: A: PDB Molecule: phospho-2-dehydro-3-deoxyheptonate aldolase; PDBTitle: the structure of a dimeric type ii dah7ps associated with pyocyanin2 biosynthesis in pseudomonas aeruginosa
60	c3l6tB	Alignment	not modelled	25.7	24	PDB header: hydrolase Chain: B: PDB Molecule: mobilization protein trai; PDBTitle: crystal structure of an n-terminal mutant of the plasmid pcu1 trai2 relaxase domain
61	c3txxD	Alignment	not modelled	24.8	11	PDB header: transferase Chain: D: PDB Molecule: putrescine carbamoyltransferase; PDBTitle: crystal structure of putrescine transcarbamylase from enterococcus2 faecalis
62	d1vlva1	Alignment	not modelled	21.9	9	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
63	c4atul	Alignment	not modelled	21.8	9	PDB header: hydrolase Chain: I: PDB Molecule: neuronal migration protein doublecortin; PDBTitle: human doublecortin n-dc repeat plus linker, and tubulin (2xrp) docked2 into an 8a cryo-em map of doublecortin-stabilised microtubules3 reconstructed in absence of kinesin
64	d1omha	Alignment	not modelled	19.9	21	Fold: Origin of replication-binding domain, RBD-like Superfamily: Origin of replication-binding domain, RBD-like Family: Relaxase domain
65	d1mjda	Alignment	not modelled	19.8	8	Fold: beta-Grasp (ubiquitin-like) Superfamily: Doublecortin (DC) Family: Doublecortin (DC)
66	c4dmzB	Alignment	not modelled	18.8	11	PDB header: nucleotide-binding protein Chain: B: PDB Molecule: putative uncharacterized protein peld; PDBTitle: peld 156-455 from pseudomonas aeruginosa pa14, apo form
67	d1p4da	Alignment	not modelled	18.0	50	Fold: Origin of replication-binding domain, RBD-like Superfamily: Origin of replication-binding domain, RBD-like Family: Relaxase domain
68	d1dxha1	Alignment	not modelled	17.7	7	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
69	c5uxmA	Alignment	not modelled	17.6	18	PDB header: transferase Chain: A: PDB Molecule: phospho-2-dehydro-3-deoxyheptonate aldolase; PDBTitle: type ii dah7ps from pseudomonas aeruginosa with trp bound
70	d1duvg1	Alignment	not modelled	17.0	5	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
71	c3ezuA	Alignment	not modelled	16.6	17	PDB header: signaling protein Chain: A: PDB Molecule: ggdef domain protein; PDBTitle: crystal structure of multidomain protein of unknown function with2 ggdef-domain (np_951600.1) from geobacter sulfurreducens at 1.95 a3 resolution
72	c2dnfA	Alignment	not modelled	16.5	14	PDB header: protein binding Chain: A: PDB Molecule: doublecortin domain-containing protein 2; PDBTitle: solution structure of rsgi ruh-062, a dcx domain from human
73	d1ml4a1	Alignment	not modelled	15.6	7	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
74	d1hska2	Alignment	not modelled	14.4	18	Fold: Uridine diphospho-N-Acetylenolpyruvylglucosamine reductase, MurB, C-terminal domain Superfamily: Uridine diphospho-N-Acetylenolpyruvylglucosamine reductase, MurB, C-terminal domain Family: Uridine diphospho-N-Acetylenolpyruvylglucosamine reductase, MurB, C-terminal domain
75	d1pvva1	Alignment	not modelled	13.4	2	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
76	c6cslA	Alignment	not modelled	13.3	35	PDB header: metal binding protein Chain: A: PDB Molecule: histidine triad protein d; PDBTitle: pneumococcal phtd protein 269-339 fragment with bound zn(ii)
77	d2cs7a1	Alignment	not modelled	12.8	27	Fold: IL8-like Superfamily: PhtA domain-like Family: PhtA domain-like
78	c5nngA	Alignment	not modelled	12.1	9	PDB header: transferase Chain: A: PDB Molecule: ctatc; PDBTitle: aspartate transcarbamylase from chaetomium thermophilum cad-like2 bound to carbamoyl phosphate
79	d2at2a1	Alignment	not modelled	11.4	4	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase PDB header: hydrolase

80	c3rcnA_	Alignment	not modelled	11.3	11	Chain: A: PDB Molecule: beta-n-acetylhexosaminidase; PDBTitle: crystal structure of beta-n-acetylhexosaminidase from arthrobacter2 aurescens
81	c5hudA_	Alignment	not modelled	11.3	16	PDB header: transferase/isomerase Chain: A: PDB Molecule: 3-deoxy-d-arabino-heptulosonate 7-phosphate (dahp) PDBTitle: non-covalent complex of and dahp synthase and chorismate mutase from2 corynebacterium glutamicum with bound transition state analog
82	c4jayC_	Alignment	not modelled	10.3	21	PDB header: oxidoreductase Chain: C: PDB Molecule: udp-n-acetylenolpyruvoylglucosamine reductase; PDBTitle: crystal structure of p. aeruginosa murB in complex with nadp+
83	c2ef0A_	Alignment	not modelled	9.6	4	PDB header: transferase Chain: A: PDB Molecule: ornithine carbamoyltransferase; PDBTitle: crystal structure of ornithine carbamoyltransferase from thermus2 thermophilus
84	d1luxy2	Alignment	not modelled	9.1	21	Fold: Uridine diphospho-N-Acetylenolpyruvyglucosamine reductase, MurB, C-terminal domain Superfamily: Uridine diphospho-N-Acetylenolpyruvyglucosamine reductase, MurB, C-terminal domain Family: Uridine diphospho-N-Acetylenolpyruvyglucosamine reductase, MurB, C-terminal domain
85	d1ekx1	Alignment	not modelled	9.1	7	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
86	c1mbbA_	Alignment	not modelled	9.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: uridine diphospho-n-acetylenolpyruvyglucosamine PDBTitle: oxidoreductase
87	d1tuga1	Alignment	not modelled	8.9	7	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
88	c5ilqA_	Alignment	not modelled	8.8	9	PDB header: transferase Chain: A: PDB Molecule: aspartate carbamoyltransferase; PDBTitle: crystal structure of truncated unliganded aspartate transcarbamoylase2 from plasmodium falciparum
89	c1ml4A_	Alignment	not modelled	8.6	7	PDB header: transferase Chain: A: PDB Molecule: aspartate transcarbamoylase; PDBTitle: the pala-liganded aspartate transcarbamoylase catalytic subunit from2 pyrococcus abyssi
90	c3j4rA_	Alignment	not modelled	8.4	11	PDB header: transferase Chain: A: PDB Molecule: a-kinase anchor protein 18; PDBTitle: pseudo-atomic model of the akap18-pka complex in a linear conformation2 derived from electron microscopy
91	c5g1oF_	Alignment	not modelled	8.0	13	PDB header: transferase Chain: F: PDB Molecule: cad protein; PDBTitle: aspartate transcarbamoylase domain of human cad in apo form
92	c5n6yC_	Alignment	not modelled	7.9	9	PDB header: oxidoreductase Chain: C: PDB Molecule: nitrogenase vanadium-iron protein delta chain; PDBTitle: azotobacter vinelandii vanadium nitrogenase
93	c3sluB_	Alignment	not modelled	7.7	20	PDB header: hydrolase Chain: B: PDB Molecule: m23 peptidase domain protein; PDBTitle: crystal structure of nmb0315
94	d1otha1	Alignment	not modelled	7.5	7	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
95	c6b4aB_	Alignment	not modelled	7.2	9	PDB header: structural protein Chain: B: PDB Molecule: doublecortin; PDBTitle: crystal structure of the c-terminal domain of doublecortin (tgdcx)2 from toxoplasma gondii me49
96	c1ortD_	Alignment	not modelled	7.1	7	PDB header: transferase Chain: D: PDB Molecule: ornithine transcarbamoylase; PDBTitle: ornithine transcarbamoylase from pseudomonas aeruginosa
97	d1r3na2	Alignment	not modelled	7.1	16	Fold: Ferredoxin-like Superfamily: Bacterial exopeptidase dimerisation domain Family: Bacterial exopeptidase dimerisation domain
98	c4iv5E_	Alignment	not modelled	7.1	7	PDB header: transferase Chain: E: PDB Molecule: aspartate carbamoyltransferase, putative; PDBTitle: x-ray crystal structure of a putative aspartate carbamoyltransferase2 from trypanosoma cruzi
99	d1nc7a_	Alignment	not modelled	7.0	18	Fold: Hypothetical protein TM1070 Superfamily: Hypothetical protein TM1070 Family: Hypothetical protein TM1070